

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	64	1
STA.		TO STA.		
CONTRACT NO.: 76386				

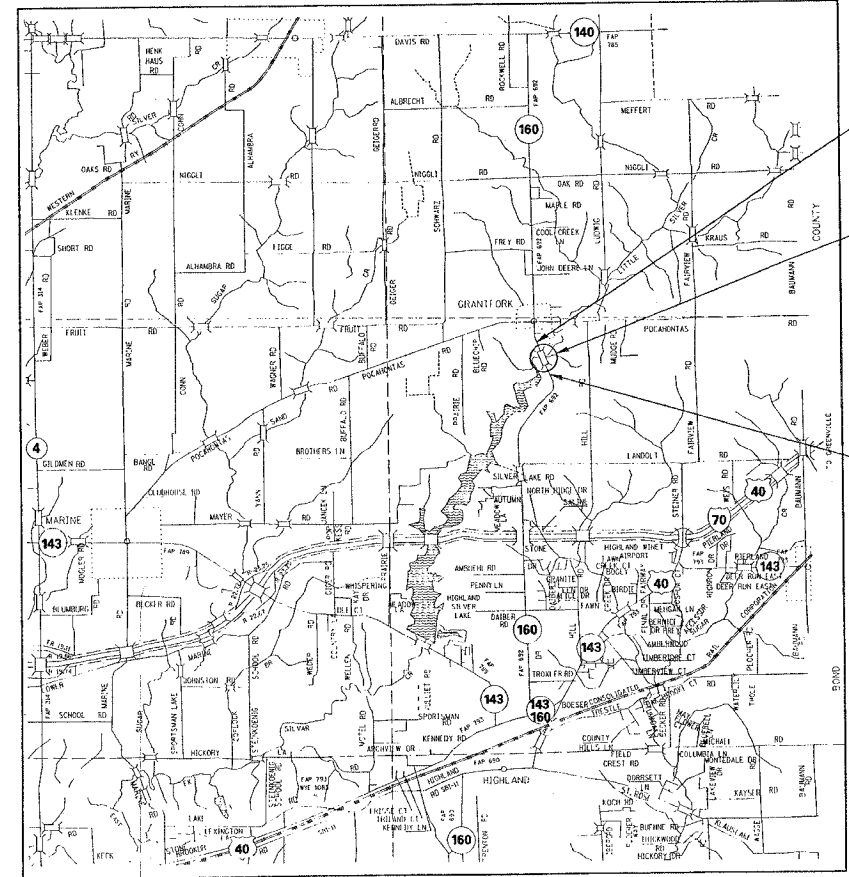
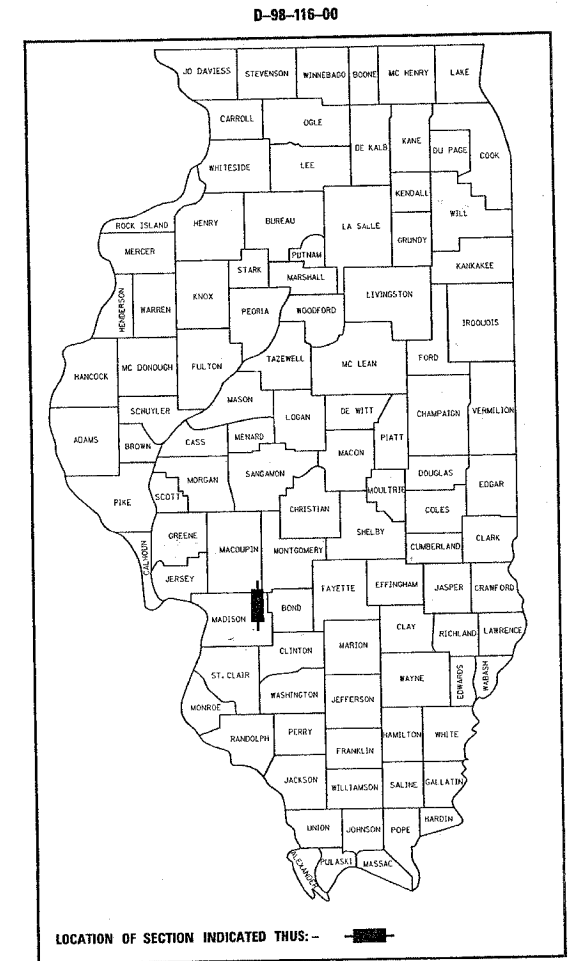
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 692 (IL 160)
SECTION 12-1BR-1
PROJECT NO. BRF-0692(002)
MADISON COUNTY

BRIDGE REPLACEMENT OVER SILVER CREEK
C-98-094-04

INDEX OF SHEETS

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BEGIN PROJECT
STA. 1436 + 50.00

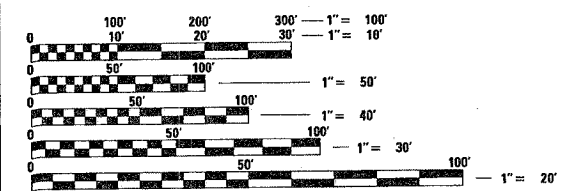
BRIDGE REPLACEMENT
STA. 1440 + 97.50
EXIST STRUCTURE NO. 060-0131
PROP. STRUCTURE NO. 060-0335
LAT: 38.19077
LONG: -89.70311

END PROJECT
STA. 1445 + 50.00

GROSS LENGTH: 0.17 MILES (900 FT.)
NET LENGTH: 0.17 MILES (900 FT.)

ADT	
2003	2300
2023	3100
S.U.	3.6%
M.U.	1.8%

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

DESIGN DESIGNATION
MINOR ARTERIAL (RURAL)

CONTRACT NO. 76386

NOT TO SCALE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED March 29 20 05
Mary C Lamin
DEPUTY DIRECTOR OF HIGHWAYS REGION 5 ENGINEER

May 13 20 05
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

May 13 20 05
Victor Maden
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Rev.

PLOT DATE: Wednesday March 16, 2005 @ 1:46:45 PM

PROJECT ENGINEER: WENDA SOUTHERLAND (618) 346-3159
SQUAD LEADER: BRIAN COURTWRIGHT (618) 346-3192

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	63	2
STA.		TO STA.		
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GENERAL NOTES

- STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, SILT WEDGES, OR ANY OTHER MATERIAL APPROVED BY THE ENGINEER.
- SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
- IF ANY SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR RESURFACED OVER. 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 THEIR LOCATION.
- EXCESS BITUMEN REMOVAL SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- MIXTURES FOR JOINTS, CRACKS, AND FLANGWAYS SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- THE OFFSETS TO ALL INLETS AND MANHOLES ARE TO THE CENTER OF THE DRAINAGE STRUCTURE. A CONCENTRIC DRAINAGE STRUCTURE WAS USED TO CALCULATE THIS DISTANCE.
- 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.
- THE THICKNESS OF BITUMINOUS SURFACE REMOVAL IS THE REMOVAL DEPTH AT THE CENTERLINE. THE REMOVAL DEPTH VARIES FROM 1/2" TO 1". AN ESTIMATED 68 TONS OF BITUMINOUS SURFACE WILL BE REMOVED.
- THE PURPOSE OF THE BITUMINOUS SURFACE REMOVAL IS TO REMOVE ANY EXISTING RUTTING AND PROVIDE A QUALITY SURFACE TO APPLY THE PROPOSED BITUMINOUS RESURFACING.
- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL 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:

ALHAMBRA-GRANTFORK TELEPHONE COMPANY*
VILLAGE OF GRANTFORK*
AMEREN IP*
BUCKEYE PIPELINE COMPANY, LLC*
CLEARVISION CABLE SYSTEM

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.
- FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE APPLIED.
- THE TEMPORARY CONCRETE BARRIER UNIT AT EACH END SHALL BE ANCHORED TO THE PAVEMENT TO PREVENT OVERTURNING AND LATERAL DEFLECTIONS GREATER THAN THOSE OBTAINED DURING THE NCHRP 350 TESTS
- TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED TO THE PAVEMENT WHEN THE BARRIER IS LOCATED WITHIN 2 FEET OF THE TRAVELED LANE AND AT LOCATIONS WHERE A HAZARD EXISTS WITHIN 3.5 FEET OF THE BARRIER.

COMMITMENTS

COMMITMENTS FOR THIS PROJECT ARE AS FOLLOWS:

THE R.E. SHALL CONTACT DON WEDER (618-654-2161), THE OWNER OF THE PROPERTY FROM STATION 1439+92 TO 1447+00 LEFT, PRIOR TO CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF A PROPOSED PRIVATE ENTRANCE TO HIS PROPERTY. THE ENTRANCE SHALL ONLY BE PERMITTED TO BE CONSTRUCTED BETWEEN STATION 1444+40 TO 1444+83 LEFT OR 1445+67 TO 1446+83 LEFT. THE ENTRANCE SHALL BE CONSTRUCTED TO CURRENT DEPARTMENT ENTRANCE POLICY WIDTH OF 24 FEET. THE LENGTH OF THE DRIVE SHALL BE CONSTRUCTED TO THE TREE LINE, APPROXIMATELY 24 FEET, RESULTING IN NO ADDITIONAL TREE REMOVAL.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE SUMMARY OF QUANTITIES FOR THIS WORK;

AGGREGATE SURFACE COURSE TYPE A 6" - 64 SQ YDS
GUTTER REMOVAL (SPECIAL) - 24 FT
CLASS SI CONCRETE (OUTLET) - 5 CU YDS

ANY ITEMS LISTED ABOVE NOT USED IN THE CONSTRUCTION OF THE ENTRANCE SHALL BE DEDUCTED FROM THE CONTRACT. ANY ADDITIONAL WORK REQUIRED FOR THIS ENTRANCE SHALL BE CONSTRUCTED UNDER ARTICLE 109.04 OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.

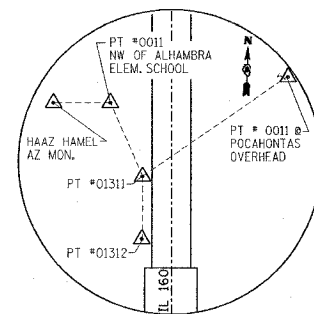
HIGHWAY STANDARDS

280001-02	701011-01
406201	701201-02
420401-05	701301-02
482001	701306-01
482011-01	701311-02
503001-02	701321-08
515001-02	701326-02
542301	702001-05
606101-01	704001-02
609001-02	720001
630001-05	720006
630301-03	780001-01
631011-02	781001-02
631031-05	000001-04
635006-02	001001
635011-01	001006
701001-01	
701006-02	

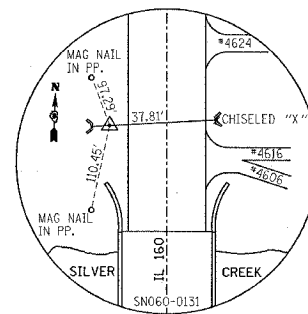
DATE	BY

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

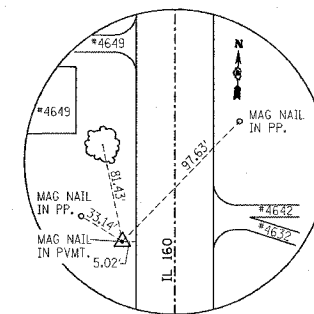
- REFER TO ARTICLE 107.20 & 107.25 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER FOR RELOCATION OF ALL MAILBOXES, EXISTING STREET NAME SIGNS, AND ALL PRIVATE AND COMMERCIAL SIGNS.
- ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURE FOR THE USE SPECIFIES IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATE 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 MANUFACTURES RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- CONFLICTS ON THE PLANS MAY OCCUR BETWEEN THE ROADWAY PLANS AND RIGHT-OF-WAY PLANS. THE RIGHT-OF-WAY PLANS SHALL TAKE PRECEDENCE IN CONFLICTS IN RIGHT-OF-WAY OR EASEMENTS. THE ROADWAY PLANS SHALL TAKE PRECEDENCE IN ITEMS FOR CONSTRUCTION.
- EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE.



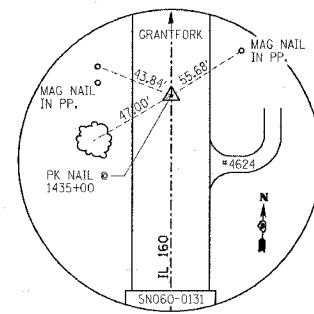
GPS TIE POINTS



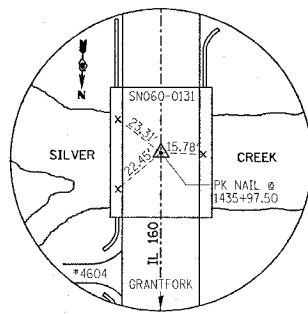
GPS TIE POINT *01312



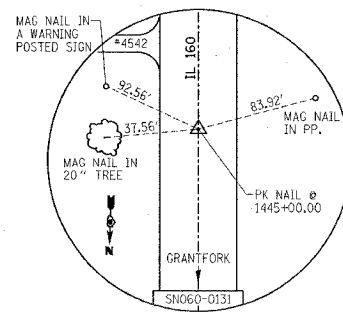
GPS TIE POINT *01311



TIE POINT
STA. 1435+00.00



TIE POINT
STA. 1440+97.50
(ON SNO60-0131)



TIE POINT
STA. 1445+00.00

BM *1 - CHISELED "X" AT THE NORTHEAST WINGWALL OF STRUCTURE 060-0131, ELEV. 514.05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES, COMMITMENTS,
HIGHWAY STANDARDS, TIE POINTS
& BENCHMARK
FAP 692
SECTION 12-1BR-1
MADISON COUNTY

DRAWN BY:

PLOT DATE: Tuesday May 10, 2005 @ 8:31:25 AM

SUMMARY OF QUANTITIES

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	3
STA.	TO STA.			
CONTRACT NO.: 76386				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		X071-2A 20% STATE 80% FEDERAL	SFTY-3N 20% STATE 80% FEDERAL	X071-2A 20% STATE 80% FEDERAL	X071-2A 20% STATE 80% FEDERAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	167	167			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24	24			
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25			
20200100	EARTH EXCAVATION	CU YD	255	255			
20400800	FURNISHED EXCAVATION	CU YD	1350	1350			
20700220	POROUS GRANULAR EMBANKMENT	CU YD	137			137	
21400100	GRADING AND SHAPING DITCHES	FOOT	14	14			
*25000200	SEEDING, CLASS 2	ACRE	0.75	0.75			
*25000400	NITROGEN FERTILIZER NUTRIENT	POUND	62	62			
*25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	62	62			
*25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	62	62			
*25100115	MULCH, METHOD 2	ACRE	0.75	0.75			
*28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80	80			
*28000300	TEMPORARY DITCH CHECKS	EACH	20	20			
*28000400	PERIMETER EROSION BARRIER	FOOT	1200	1200			
*28000500	INLET AND PIPE PROTECTION	EACH	5	5			
28100109	STONE RIPRAP, CLASS A5	SQ YD	2945	228		2717	
28200200	FILTER FABRIC	SQ YD	2945	228		2717	
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	91	91			
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	94	94			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.6	0.6			
40600300	AGGREGATE (PRIME COAT)	TON	2.7	2.7			
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	27	27			
40600990	TEMPORARY RAMP	SQ YD	678	678			
40800020	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.4	0.4			
40800030	AGGREGATE (PRIME COAT)	TON	0.7	0.7			
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	16	16			
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	228	228			
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	70	70			
44000003	BITUMINOUS SURFACE REMOVAL 3/4"	SQ YD	1601	1601			
44000100	PAVEMENT REMOVAL	SQ YD	186	186			
44002720	GUTTER REMOVAL (SPECIAL)	FOOT	777	777			
48202600	BITUMINOUS SHOULDERS SUPERPAVE 8"	SQ YD	485	485			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1	
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1			
50200100	STRUCTURE EXCAVATION	CU YD	100.6			100.6	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		X071-2A 20% STATE 80% FEDERAL	SFTY-3N 20% STATE 80% FEDERAL	X071-2A 20% STATE 80% FEDERAL	X071-2A 20% STATE 80% FEDERAL
50300100	FLOOR DRAINS	EACH	8			8	
50300225	CONCRETE STRUCTURES	CU YD	189.9			189.9	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	199.9			199.5	0.4
50300260	BRIDGE DECK GROOVING	SQ YD	542.2			542.2	
50300300	PROTECTIVE COAT	SQ YD	716.1			716.1	
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	279				279
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1			1	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1700				1700
50500505	STUD SHEAR CONNECTORS	EACH	2934			2934	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58,440			58,400	40
51201900	FURNISHING STEEL PILES HP14X89	FOOT	1067			1067	
51202700	DRIVING STEEL PILES	FOOT	315			315	
51203900	TEST PILE STEEL HP14X89	EACH	2			2	
51204600	METAL SHOES	EACH	15			15	
51205200	TEMPORARY SHEET PILING	SQ FT	420.4			420.4	
51500100	NAME PLATES	EACH	1			1	
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	2	2			
54010202	PRECAST CONCRETE BOX CULVERT 2' X 2'	FOOT	14	14			
54213447	END SECTIONS 12"	EACH	4	4			
54248510	CONCRETE COLLAR	CU YD	0.52	0.52			
55100500	STORM SEWER REMOVAL 12"	FOOT	54	54			
55100900	STORM SEWER REMOVAL 18"	FOOT	49	49			
60100945	PIPE DRAINS 12"	FOOT	155	155			
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	7	7			
60602500	CONCRETE GUTTER, TYPE A	FOOT	374	374			
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	4	4			
60900515	CONCRETE THRUST BLOCKS	EACH	4	4			
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	425	425			
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4			4	
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4			4	
63200310	GUARDRAIL REMOVAL	FOOT	592			592	
*63301210	REMOVE AND RE-ERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	692			692	
*63301990	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	6			6	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	16			

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* SPECIALTY ITEMS

PLOT DATE: Wednesday March 16, 2005 @ 1:46:59 PM

SUMMARY OF QUANTITIES

FIP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-IBR-1	MADISON	65	4
STA.		TO STA.		
CONTRACT NO.: 76386				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		X071-2A 20% STATE 80% FEDERAL	SFTY-3N 20% STATE 80% FEDERAL	X071-2A 20% STATE 80% FEDERAL	X071-2A 20% STATE 80% FEDERAL
67100100	MOBILIZATION	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			
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1			
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	2	2			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	432	432			
70300200	TEMPORARY PAVEMENT MARKING	FOOT	6487	6487			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	577	577			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450		450		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	425		425		
72400710	RELOCATE SIGN PANEL - TYPE 1'	SQ FT	11	11			
72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	12	12			
73000100	WOOD SIGN SUPPORT	FOOT	57	57			
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2076	2076			
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9			
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	3	3			
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8		8		
78200530	BARRIER WALL MARKERS, TYPE C	EACH	4		4		
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12			
*A2002314	TREE, BETULA NIGRA (RIVER BIRCH), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	12	12			
*A2006912	TREE, QUERCUS PALUSTRIS (PIN OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	2	2			
*A2007614	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3	3			
*B2001114	TREE, CERCIS CANADENSIS (EASTERN REDBUD) 1-3/4" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	7	7			
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	279			279	
X0712400	TEMPORARY PAVEMENT	SQ YD	362	362			
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	362	362			
X3560130	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 9 INCH	SQ YD	212	212			

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X4066416	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70	TON	165.9	162			3.9
X4066616	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N70	TON	700	700			
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1			1	
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1			1	
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	40	40			
Z0002600	BAR SPLICERS	EACH	645			645	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2		
*Z0065000	SETTING PILES IN ROCK	EACH	16			16	

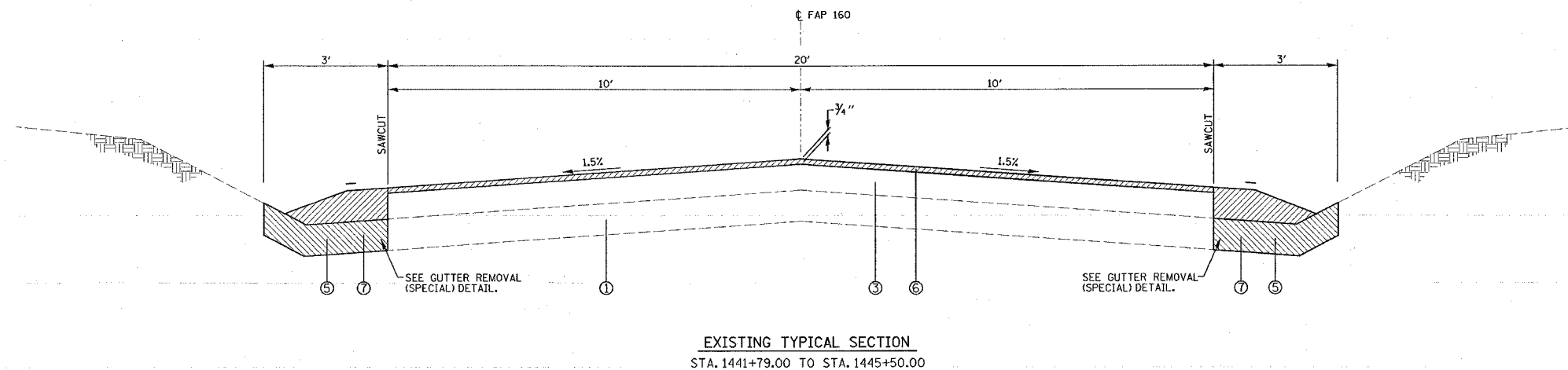
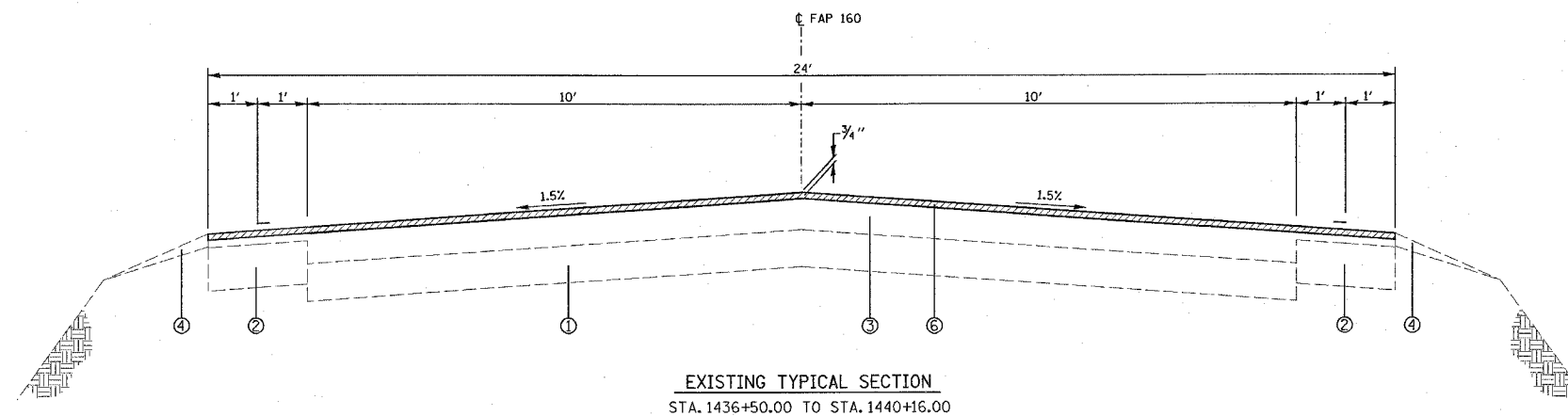
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 User: jg

* SPECIALTY ITEMS

PLOT DATE: Wednesday March 16, 2005 @ 11:47:07 PM

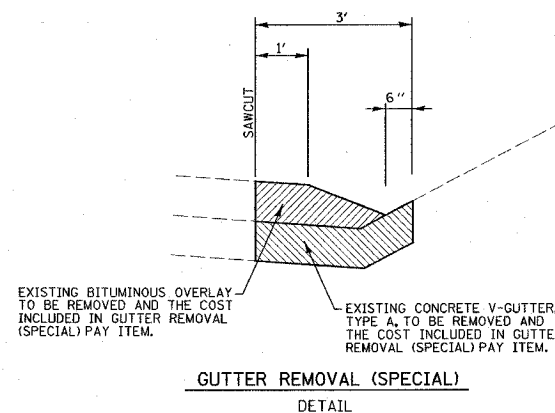
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	5
STA.		TO STA.		
CONTRACT NO.: 76386				

PLAN	SURVEYED	DATE
NOTE BOOK NO.	BY	
	ALIGNED	
	CHECKED	
	DATE	
	FILE NAME	



LEGEND

- ① EXISTING PCC PAVEMENT - 6"
- ② EXISTING BITUMINOUS WIDENING - 7"
- ③ EXISTING BITUMINOUS RESURFACING - 6"
- ④ EXISTING AGGREGATE SHOULDER WEDGE
- ⑤ EXISTING TYPE A GUTTER
- ⑥ PROPOSED BITUMINOUS SURFACE REMOVAL - 3/4"
- ⑦ PROPOSED GUTTER REMOVAL - (SPECIAL)
- ⑧ PROPOSED BITUMINOUS WIDENING - 9"
- ⑨ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑩ PROPOSED AGGREGATE (PRIME COAT)
- ⑪ PROPOSED BINDER COURSE - THICKNESS VARIES 1/2" TO 1 1/8"
- ⑫ PROPOSED SURFACE COURSE - 1 1/2"
- ⑬ PROPOSED BITUMINOUS SHOULDER - 8"
- ⑭ PROPOSED TYPE A GUTTER
- ⑮ PROPOSED RIPRAP CLASS A5
- ⑯ PROPOSED FILTER FOR USE WITH RIPRAP



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS

FAP 692
SECTION 12-1BR-1
MADISON COUNTY

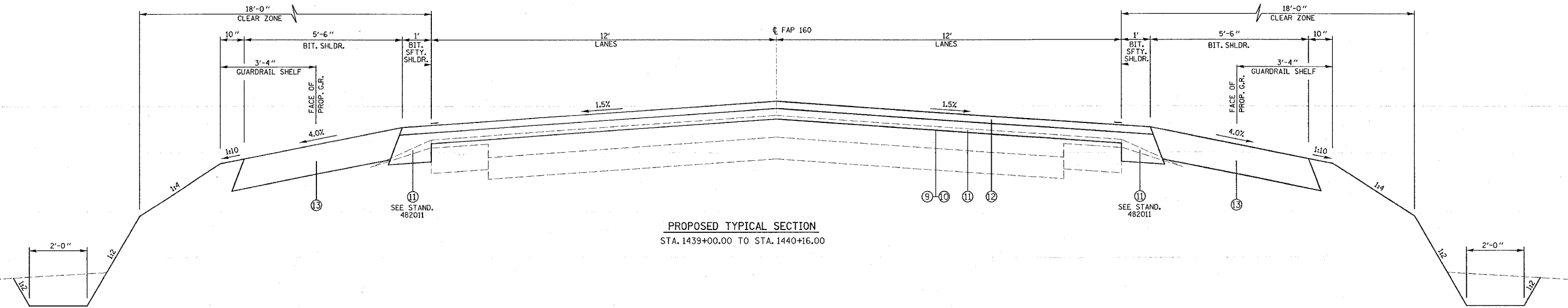
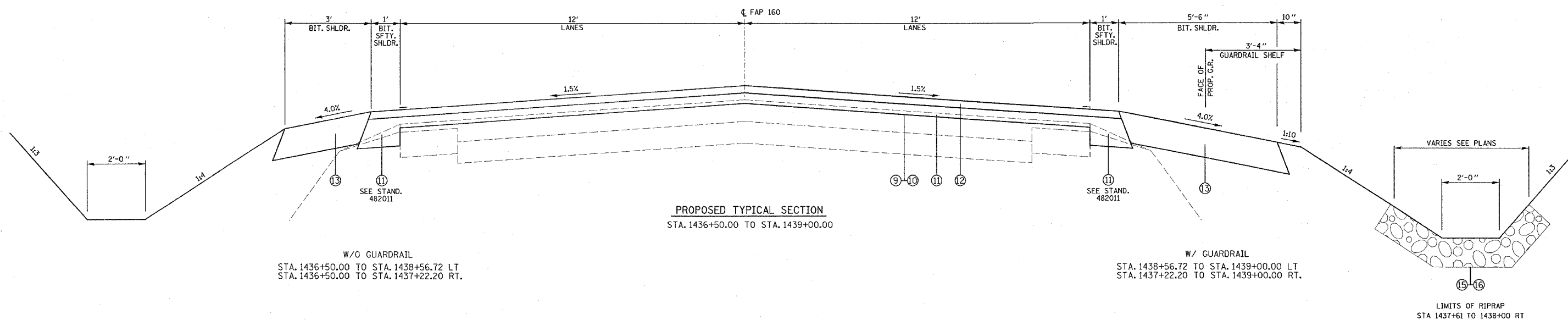
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FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
692	12-1BR-1	MADISON	65	6
STA.		TO STA.		
CONTRACT NO.: 76386				

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTE BOOK		
	NO.		
	FILE NAME		



- LEGEND**
- ① EXISTING PCC PAVEMENT - 6"
 - ② EXISTING BITUMINOUS WIDENING - 7"
 - ③ EXISTING BITUMINOUS RESURFACING - 6"
 - ④ EXISTING AGGREGATE SHOULDER WEDGE
 - ⑤ EXISTING TYPE A GUTTER
 - ⑥ PROPOSED BITUMINOUS SURFACE REMOVAL - 3/4"
 - ⑦ PROPOSED GUTTER REMOVAL - (SPECIAL)
 - ⑧ PROPOSED BITUMINOUS WIDENING - 9"
 - ⑨ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
 - ⑩ PROPOSED AGGREGATE (PRIME COAT)
 - ⑪ PROPOSED BINDER COURSE - THICKNESS VARIES 1/2" TO 18 1/8"
 - ⑫ PROPOSED SURFACE COURSE - 1 1/2"
 - ⑬ PROPOSED BITUMINOUS SHOULDER - 8"
 - ⑭ PROPOSED TYPE A GUTTER
 - ⑮ PROPOSED RIPRAP CLASS A5
 - ⑯ PROPOSED FILTER FOR USE WITH RIPRAP

MIXTURE USE	SURFACE	BINDER	PATCHING	INCIDENTAL	BASE CSE	SHOULDERS	TOP LIFT SHOULDERS
AC/PC	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22	PG 58-22
RAP % (MAX)	10%	15%	15%	10%	30%	30%	30%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=50	2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	IL 19.0	IL 19.0	IL 19.0	IL 19.0	BASE CSE	BAM	BAM
FRICITION AGG	MIXTURE C	MIXTURE B	MIXTURE B	MIXTURE C	BASE CSE	BAM	BAM

** DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%

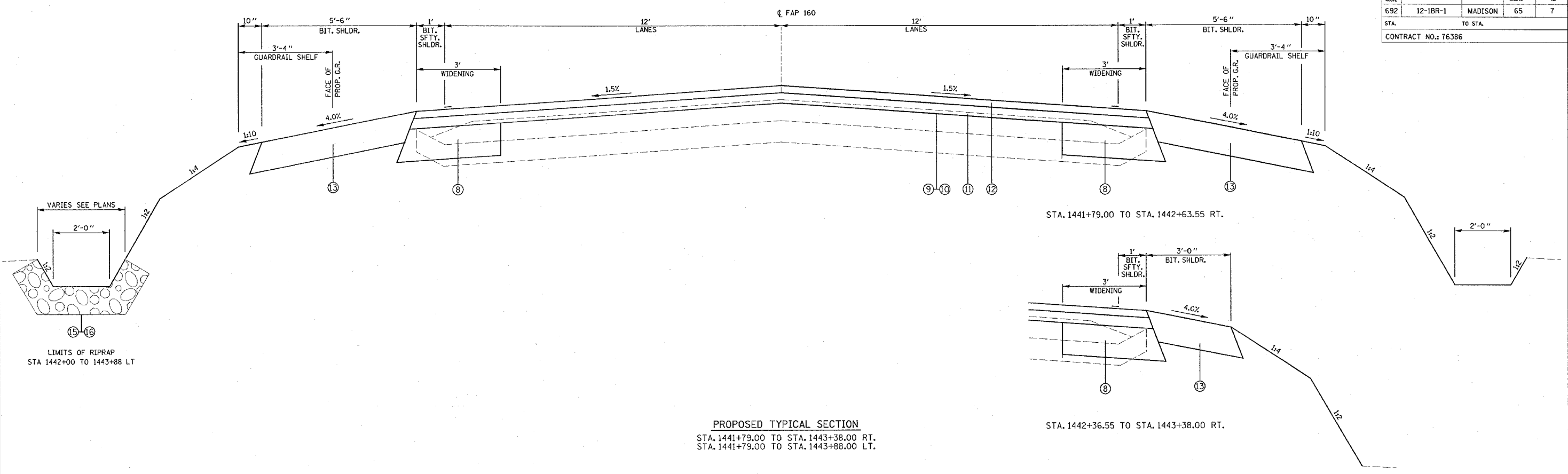
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY
 DRAWN BY:

PLOT DATE: Monday March 14, 2005 @ 1:32:36 PM

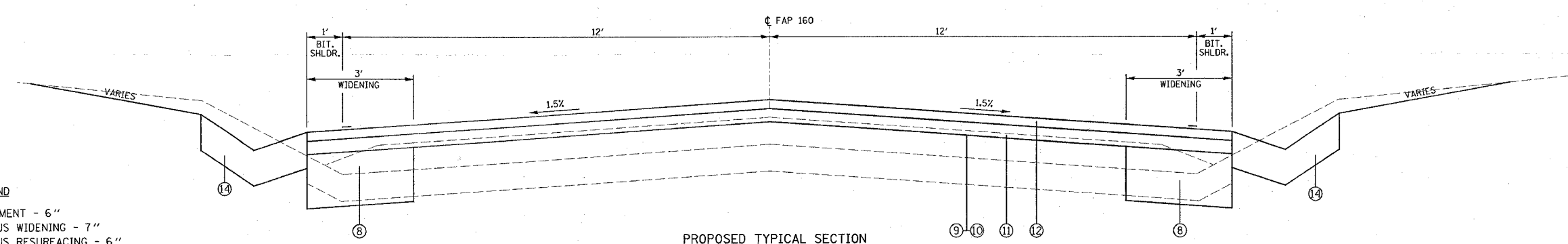
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692	12-IBR-1	MADISON	65	7
STA. _____		TO STA. _____		
CONTRACT NO.: 76386				

PLAN	DATE
SURVEYED	BY
NOTE BOOK	NO.
NO.	



PROPOSED TYPICAL SECTION
 STA. 1441+79.00 TO STA. 1443+38.00 RT.
 STA. 1441+79.00 TO STA. 1443+88.00 LT.

PROPOSED TYPICAL SECTION
 STA. 1442+36.55 TO STA. 1443+38.00 RT.



PROPOSED TYPICAL SECTION
 STA. 1443+38.00 TO STA. 1445+50.00 RT.
 STA. 1443+88.00 TO STA. 1445+50.00 LT.

- LEGEND
- ① EXISTING PCC PAVEMENT - 6"
 - ② EXISTING BITUMINOUS WIDENING - 7"
 - ③ EXISTING BITUMINOUS RESURFACING - 6"
 - ④ EXISTING AGGREGATE SHOULDER WEDGE
 - ⑤ EXISTING TYPE A GUTTER
 - ⑥ PROPOSED BITUMINOUS SURFACE REMOVAL - 3/4"
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 - ⑪ PROPOSED BINDER COURSE - THICKNESS VARIES 1/2" TO 18 1/8"
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 - ⑯ PROPOSED FILTER FOR USE WITH RIPRAP

MIXTURE USE	SURFACE	BINDER	PATCHING	INCIDENTAL	BASE CSE	SHOULDERS	TOP LIFT SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22	PG 58-22
RAP % (MAX)	10%	15%	15%	10%	30%	30%	30%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=50	2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)		IL 19.0	IL 19.0				
FRICITION AGG	MIXTURE C	MIXTURE B	MIXTURE B	MIXTURE C	BASE CSE	BAM	BAM

** DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
 FAP 692
 SECTION 12-IBR-1
 MADISON COUNTY
 DRAWN BY:

3/14/2005 11:28:05 AM
 Monday, March 14, 2005 11:32:36 PM
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PLOT DATE: Monday March 14, 2005 @ 11:32:36 PM

PLAN SURVEYED BY DATE
 AS CORRECTED BY DATE
 NOTE BOOK NO. OF WAY CHECKED
 CAD FILE NAME

EROSION CONTROL SCHEDULE

STA to Sta	TEMP. EROSION CONTROL SEEDING (lb)	SEEDING CL 2 (ac)	NITROGEN FERTILIZER NUTRIENT (lb)	PHOSPHORUS FERTILIZER NUTRIENT (lb)	POTASSIUM FERTILIZER NUTRIENT (lb)	MULCH METHOD 2 (ac)
1436+50 to 1437+00	6	0.05	4.3	4.3	4.3	0.05
1437+00 to 1437+50	6	0.05	4.7	4.7	4.7	0.05
1437+50 to 1438+00	7	0.06	5.3	5.3	5.3	0.06
1438+00 to 1438+50	6	0.05	4.2	4.2	4.2	0.05
1438+50 to 1439+00	5	0.04	3.8	3.8	3.8	0.04
1439+00 to 1439+50	6	0.05	4.7	4.7	4.7	0.05
1439+50 to 1440+00	6	0.06	5.0	5.0	5.0	0.06
1442+00 to 1442+50	8	0.07	6.5	6.5	6.5	0.07
1442+50 to 1443+00	7	0.06	5.3	5.3	5.3	0.06
1443+00 to 1443+50	5	0.04	4.0	4.0	4.0	0.04
1443+50 to 1444+00	5	0.04	3.8	3.8	3.8	0.04
1444+00 to 1444+50	6	0.05	4.3	4.3	4.3	0.05
1444+50 to 1445+00	5	0.04	3.9	3.9	3.9	0.04
1445+00 to 1445+50	2	0.02	1.8	1.8	1.8	0.02
TOTAL	80	0.75	62	62	62	0.75

PIPE DRAIN SCHEDULE

#	STA	T-B INLET BOX STAND 609006 (EACH)	PIPE DRAINS 12" (FT)	END SECTIONS 12" (EACH)	CONC. THRUST BLOCKS (EACH)	UPSTREAM F.L. INV. OFFSET	DOWNSTREAM F.L. OFFSET
A	1439+95.69	1	25	1	1	514.58 511.91 16' RT	504.62 38.84' RT
B	1440+08.49	1	36	1	1	514.62 511.95 16' RT	502.14 88.86' LT
C	1441+86.69	1	35	1	1	515.16 512.49 16' RT	503.78 86.66' RT
D	1441+99.49	1	59	1	1	515.19 512.52 16' RT	501.10 52.09' LT
TOTAL =		4	155	4	4		

Ditch Check Spacing

Ditch Slope (%)	Height of Center of Ditch Check (Overflow Pt) (ft)	Spacing of Ditch Check (ft)
8.0	12	12.67
	15	18.67
	24	25.00
7.0	12	14.33
	15	21.33
	24	28.67
6.0	12	16.67
	15	25.00
	24	33.33
5.0	12	20.00
	15	30.00
	24	40.00
4.0	12	25.00
	15	37.67
	24	50.00
3.0	12	33.33
	15	50.00
	24	66.67
2.0	12	50.00
	15	75.00
	24	100.00
1.0 & Under	12	100.00
	15	150.00
	24	200.00

Ditch Check / Inlet & Pipe Protection

Sta	Offset	Inlet & Pipe Protection (each)	Ditch Check (each)
1436+50	LT		1
1437+00	LT		1
1437+50	LT	1	
1438+00	RT		2
1438+19	RT		1
1438+37	RT		1
1438+82	RT		1
1442+00	LT		1
1442+38	LT		1
1442+50	LT		1
1442+69	LT		1
1442+87	LT		1
1443+06	LT		1
1443+25	LT		1
1443+43	LT		1
1443+59	LT		1
1443+67	LT		1
1443+76	LT		1
1443+84	LT		1
1443+27	RT		1
439+95.69	RT	1	
440+08.49	LT	1	
441+86.69	RT	1	
441+99.49	LT	1	
TOTAL		5	20

TREE PLANTING SCHEDULE

STATION	OFFSET	SPECIES			
		BETULA NIGRA (RIVER BIRCH) 1-3/4" CALLIPER, B (EACH)	QUERCUS PALUSTRIS (PIN OAK) 1-1/2" CALIPER, B&B (EACH)	TAXODIUM DISTICHUM (COMMON BALD CYPRESS) 1-3/4" CALIPER B&B (EACH)	CERCIS CANADENSIS (EASTERN REDBUD) 1-3/4" CALLIPER B&B (EACH)
1436+78	43.8 LT	1			
1436+96	43.6 LT			1	
1437+21	43.3 LT		1		
1437+44	42.5 LT				1
1437+60	42.5 LT				1
1437+75	42.5 LT				1
1437+91	42.5 LT				1
1438+45	42.5 LT			1	
1438+63	41.9 LT	1			
1438+79	41.9 LT	1			
1438+95	41.9 LT	1			
1439+77	42.8 LT	1			
1439+92	43.7 LT	1			
1440+19	41.0 LT	1			
1436+97	48.8 RT	1			
1437+15	49.9 RT	1			
1437+40	51.9 RT		1		
1437+63	58.0 RT				1
1437+79	60.4 RT				1
1437+95	61.4 RT				1
1442+00	30.0 RT	1			
1442+14	37.3 RT	1			
1442+22	36.5 RT	1			
1442+31	35.6 RT	1			
SUB-TOTAL		12	2	3	7
TOTAL				24	

EARTHWORK SCHEDULE NORTH OF BRIDGE

STA to STA	UNADJUSTED EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR 25% SHINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
1436+15.16 to 1436+50.00	15.7	11.8	5.2	6.6
1436+50.00 to 1437+00.00	35.5	26.6	23.2	3.4
1437+00.00 to 1437+50.00	20.7	15.5	71.7	-56.2
1437+50.00 to 1437+61.07	8.1	6.1	21.3	-15.2
1437+61.07 to 1438+00.00	31.2	23.4	100.4	-77
1438+00.00 to 1438+50.00	21.1	15.8	109.6	-93.8
1438+50.00 to 1439+00.00	11.4	8.6	139.7	-131.1
1439+00.00 to 1439+50.00	2.4	1.8	228.6	-226.8
1439+50.00 to 1440+00.00	4.1	3.1	169.4	-166.3
SUB-TOTAL =	150.2	112.7	869.1	-756.4
ROUNDED SUB-TOTAL =	150	113	869	-756

EARTHWORK SCHEDULE SOUTH OF BRIDGE

STA to STA	UNADJUSTED EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR 25% SHINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
1442+00.00 to 1442+50.00	26.9	20.2	249.9	-229.7
1442+50.00 to 1443+00.00	34	25.5	170.8	-145.3
1443+00.00 to 1443+50.00	21	15.8	100.2	-84.4
1443+50.00 to 1444+00.00	6.7	5	68.5	-63.5
1444+00.00 to 1444+50.00	2.4	1.8	52.4	-50.6
1444+50.00 to 1445+00.00	7.1	5.3	23.2	-17.9
1445+00.00 to 1445+50.00	5	3.8	6.1	-2.3
SUB-TOTAL	103.1	77.4	671.1	-593.7
ROUNDED SUB-TOTAL =	103	77	671	-594

EARTHWORK SUMMARY

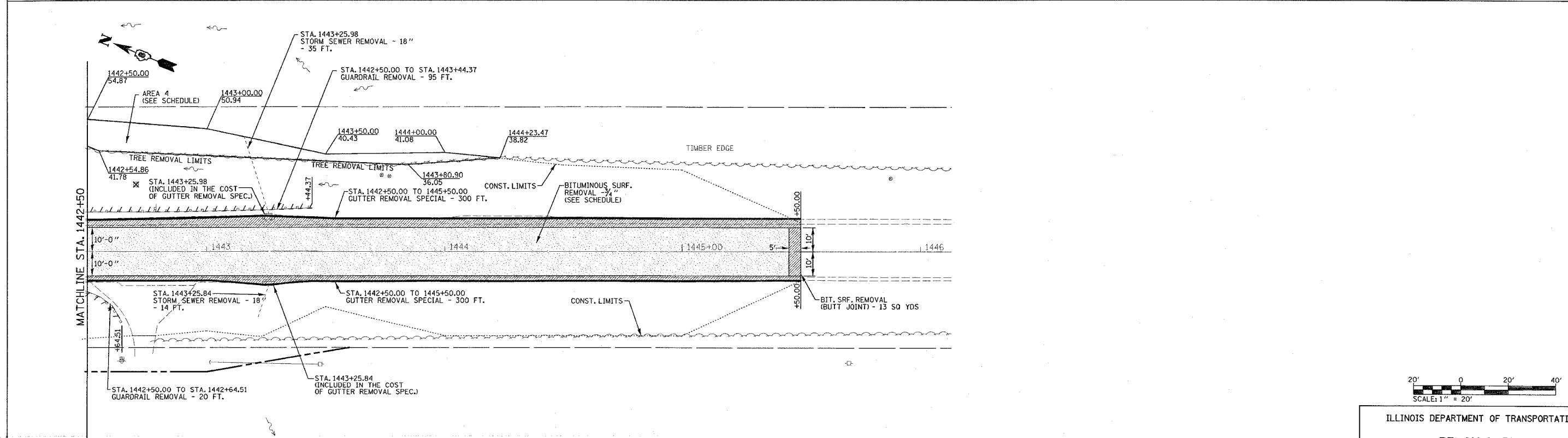
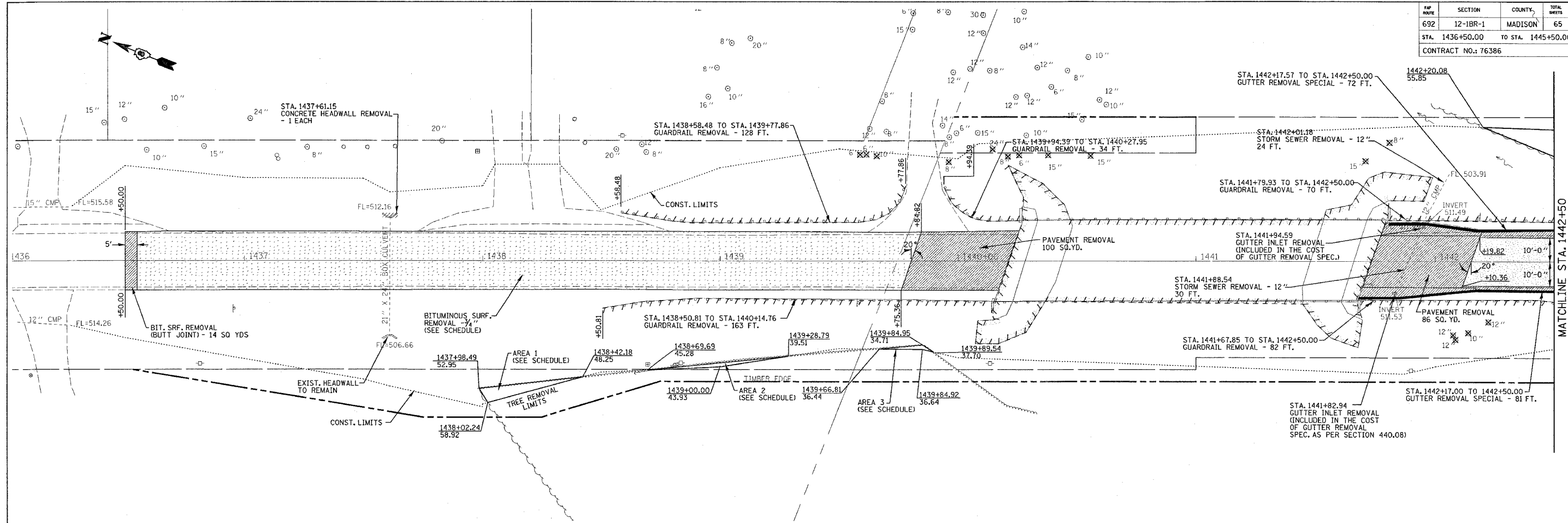
	UNADJUSTED EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR 25% SHINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
TOTAL	225	190	1540	-1350

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULES
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

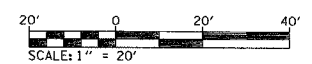
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FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	10
STA. 1436+50.00 TO STA. 1445+50.00				
CONTRACT NO.: 76386				



PLAN	DATE	BY
REVISIONS		
NO.		
DATE		
BY		
NO.		
DATE		
BY		

PROFILE	DATE	BY
REVISIONS		
NO.		
DATE		
BY		
NO.		
DATE		
BY		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL PLAN
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY
 DRAWN BY:

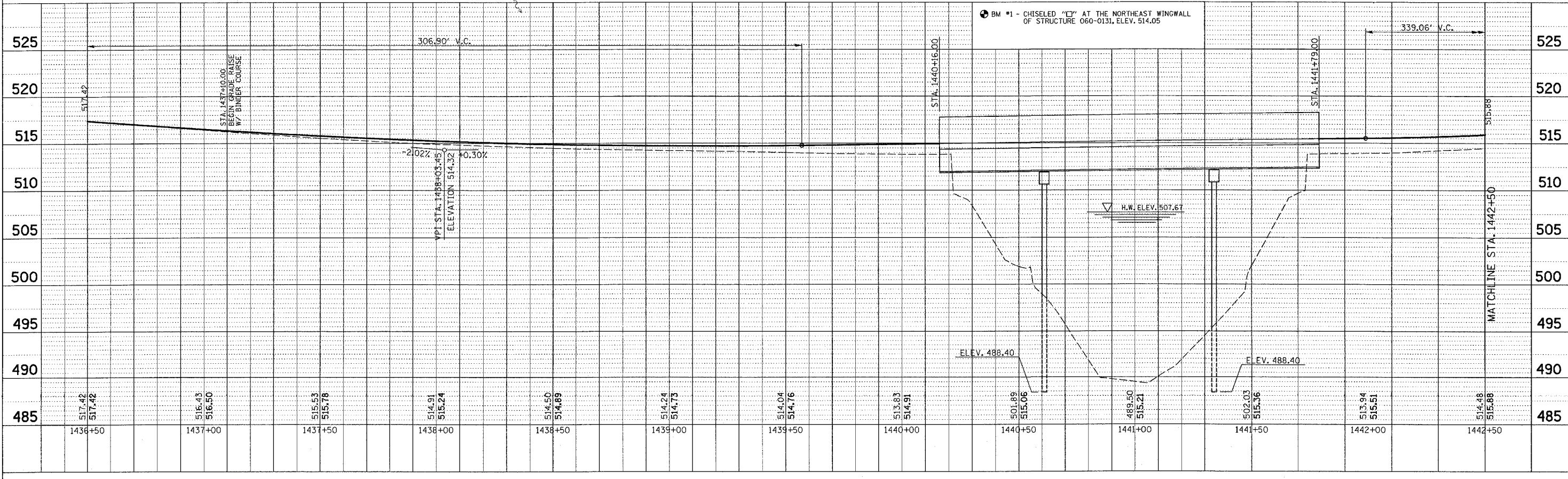
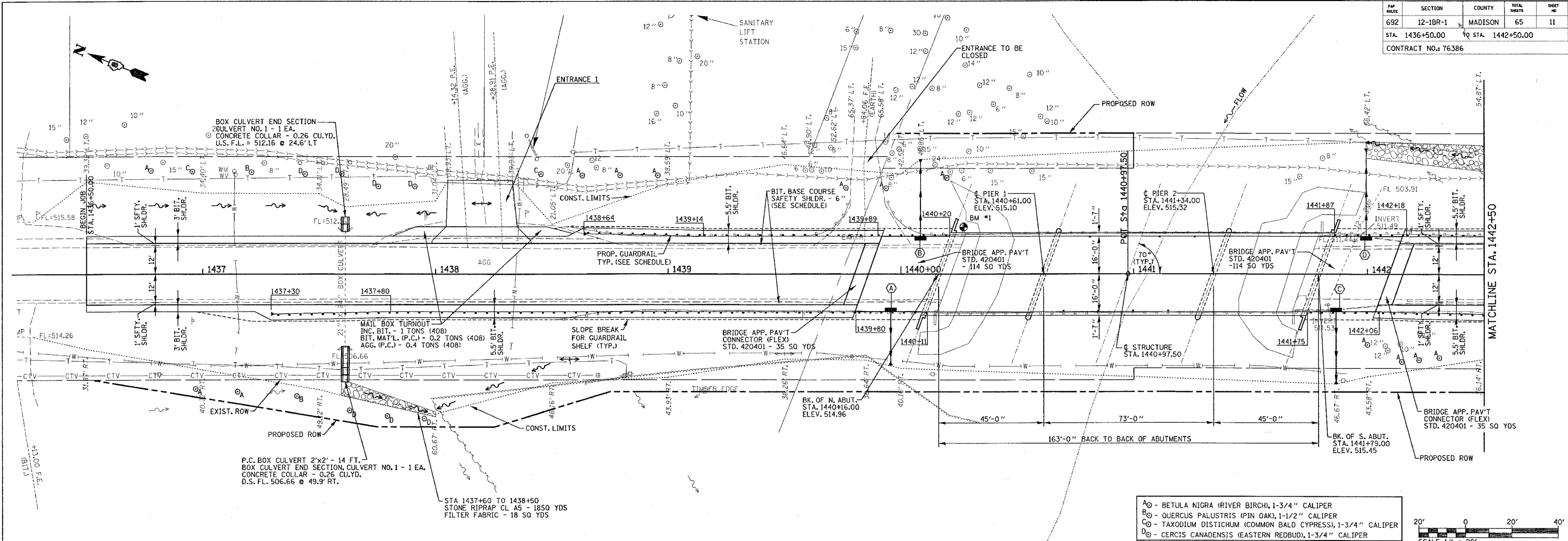
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 REMOVAL PLAN - FAP 692 (IL 160)

5/3/2005
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FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	11
STA. 1436+50.00 TO STA. 1442+50.00		CONTRACT NO.: 76386		

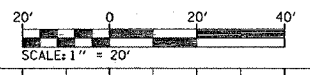
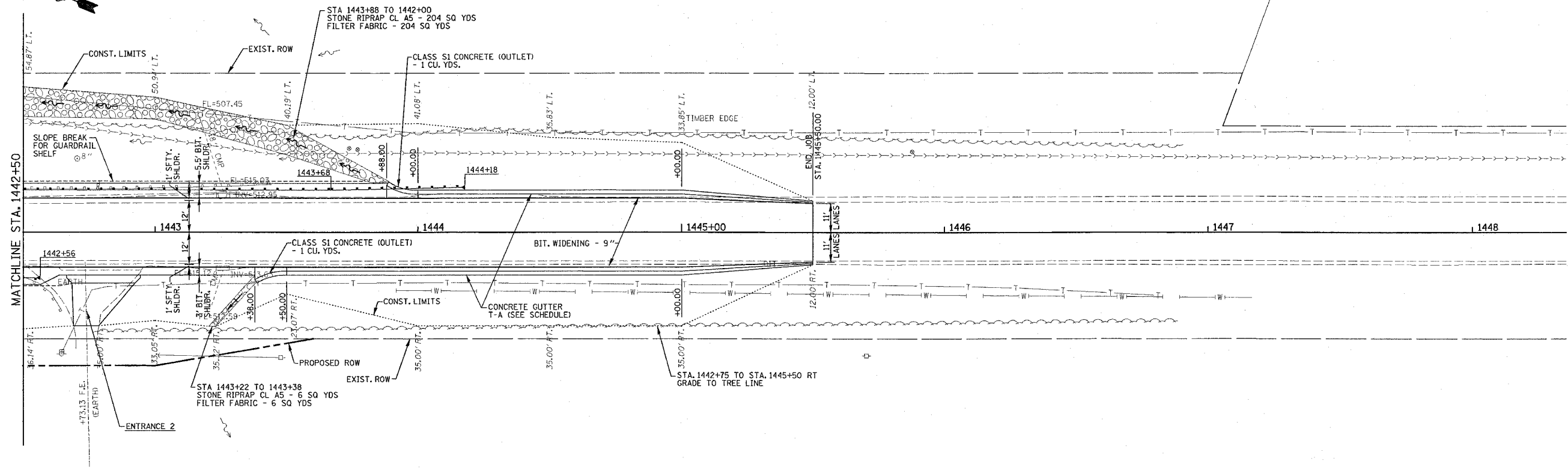
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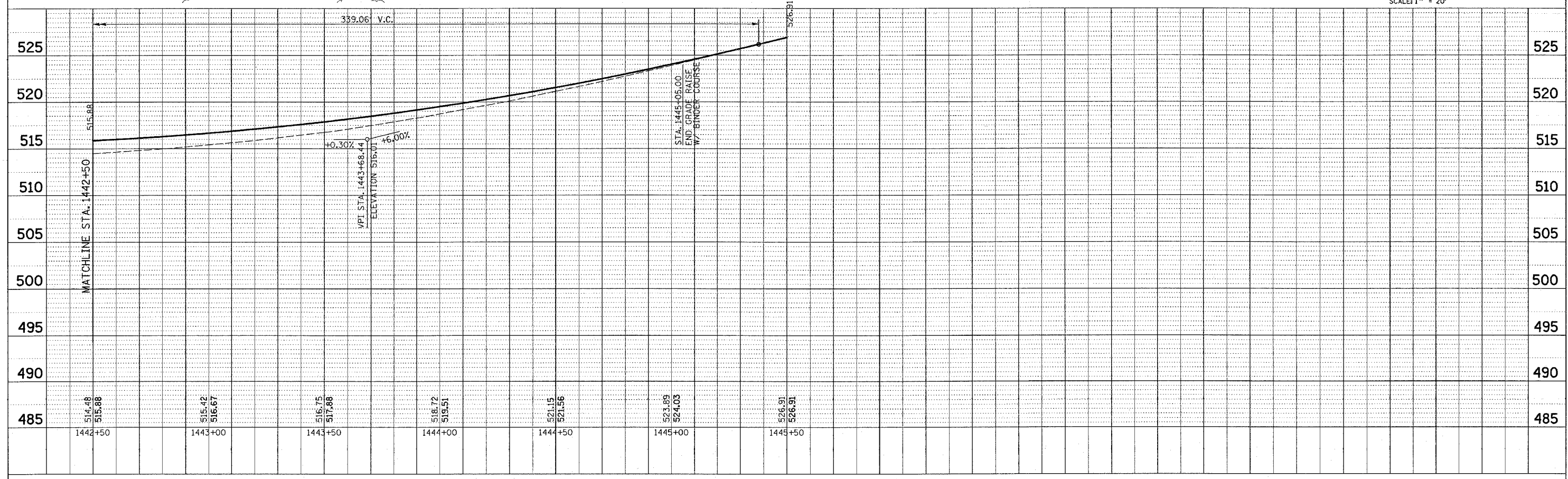
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FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	12
STA. 1442+50.00		TO STA. 1445+50.00		
CONTRACT NO.: 76386				



PLAN	DESIGNED	BY	DATE
	CHECKED		
	NOTED		
	DATE		

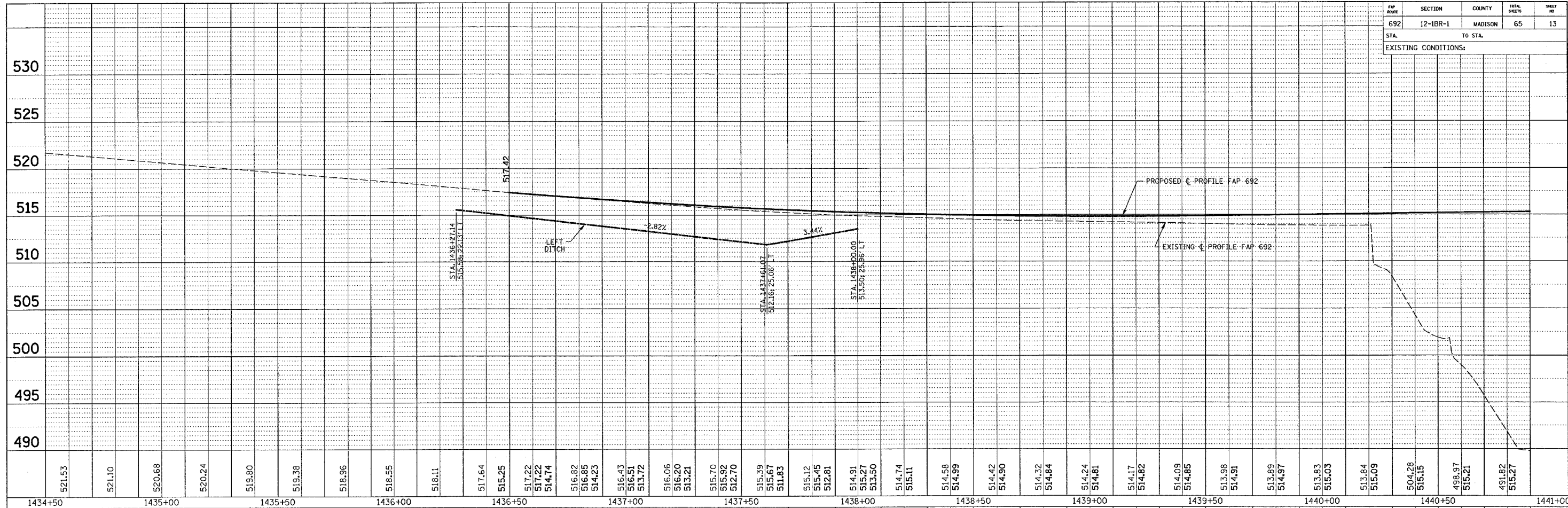
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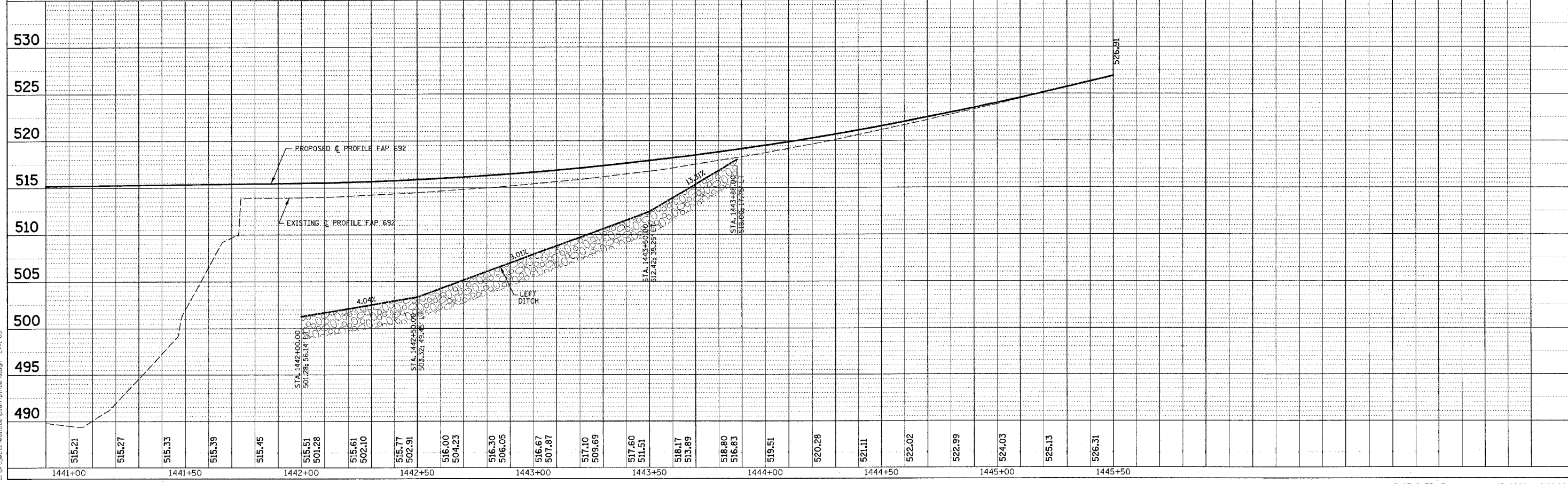
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FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-IBR-1	MADISON	65	13
STA. _____		TO STA. _____		
EXISTING CONDITIONS:				

PLAN	REVISION	DATE
NO. _____	BY _____	_____
NO. _____	BY _____	_____
NO. _____	BY _____	_____



PROFILE	REVISION	DATE
NO. _____	BY _____	_____
NO. _____	BY _____	_____
NO. _____	BY _____	_____

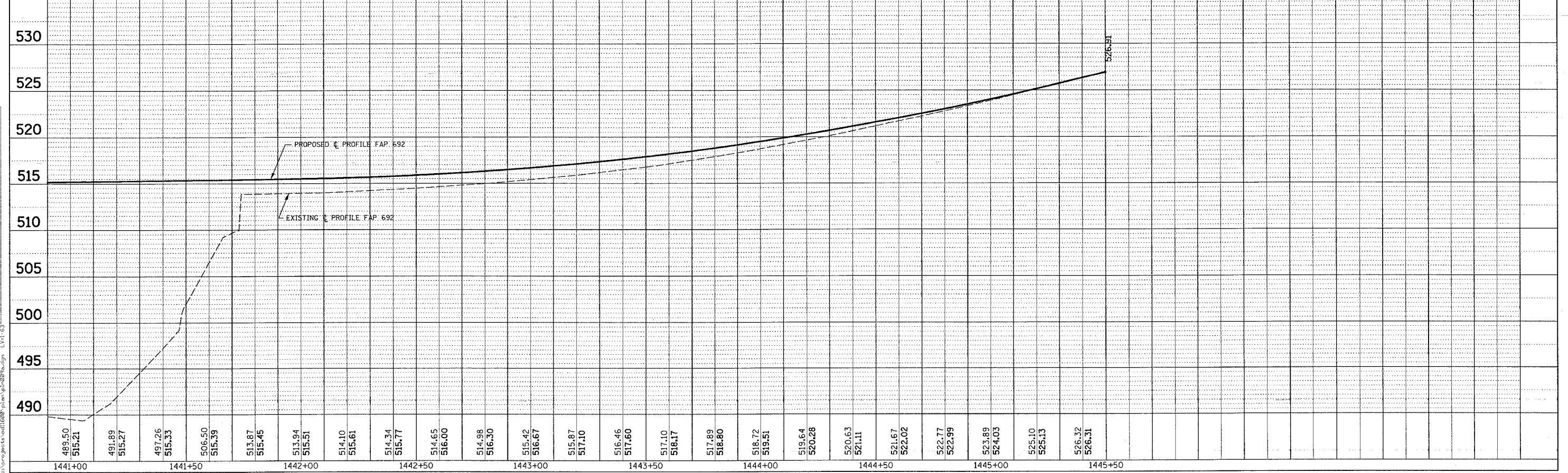
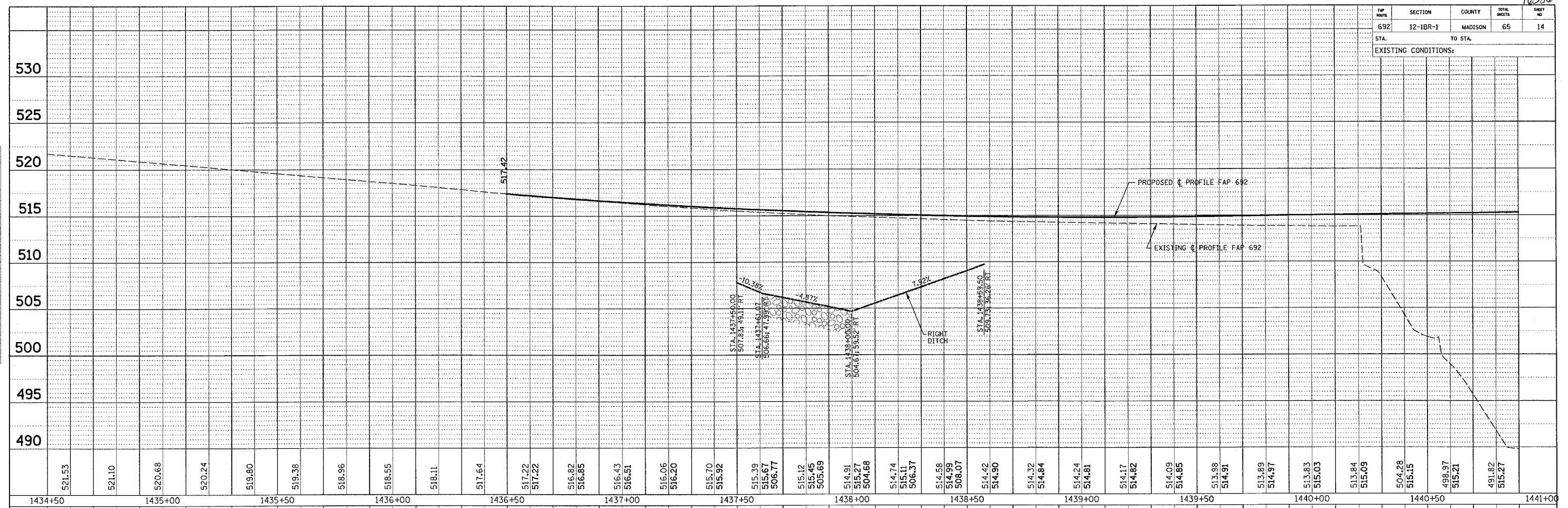


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FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
692	12-1BR-1	MADISON	65	14

STA. TO STA.

EXISTING CONDITIONS:



PLAN

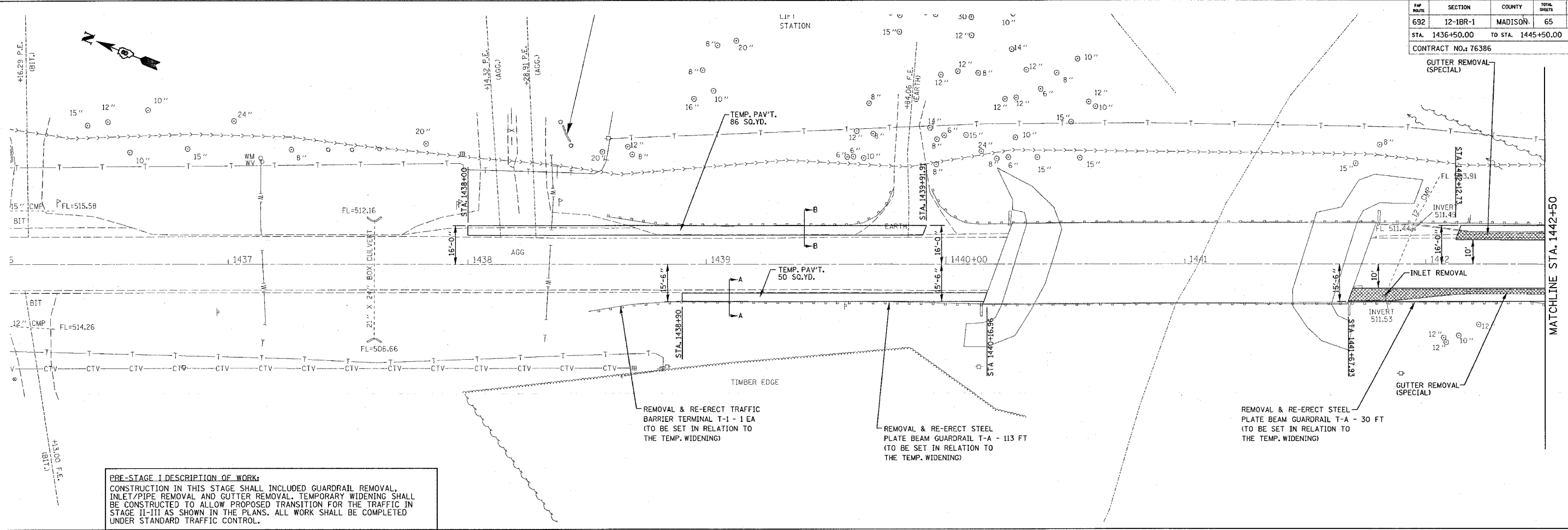
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DESIGNED	
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NOTE BOOK	
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PROFILE

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NOTE BOOK	
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3/14/2005
Monday March 14, 2005 @ 1:55:34 PM
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FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	15
STA. 1436+50.00		TO STA. 1445+50.00		
CONTRACT NO. 76386				



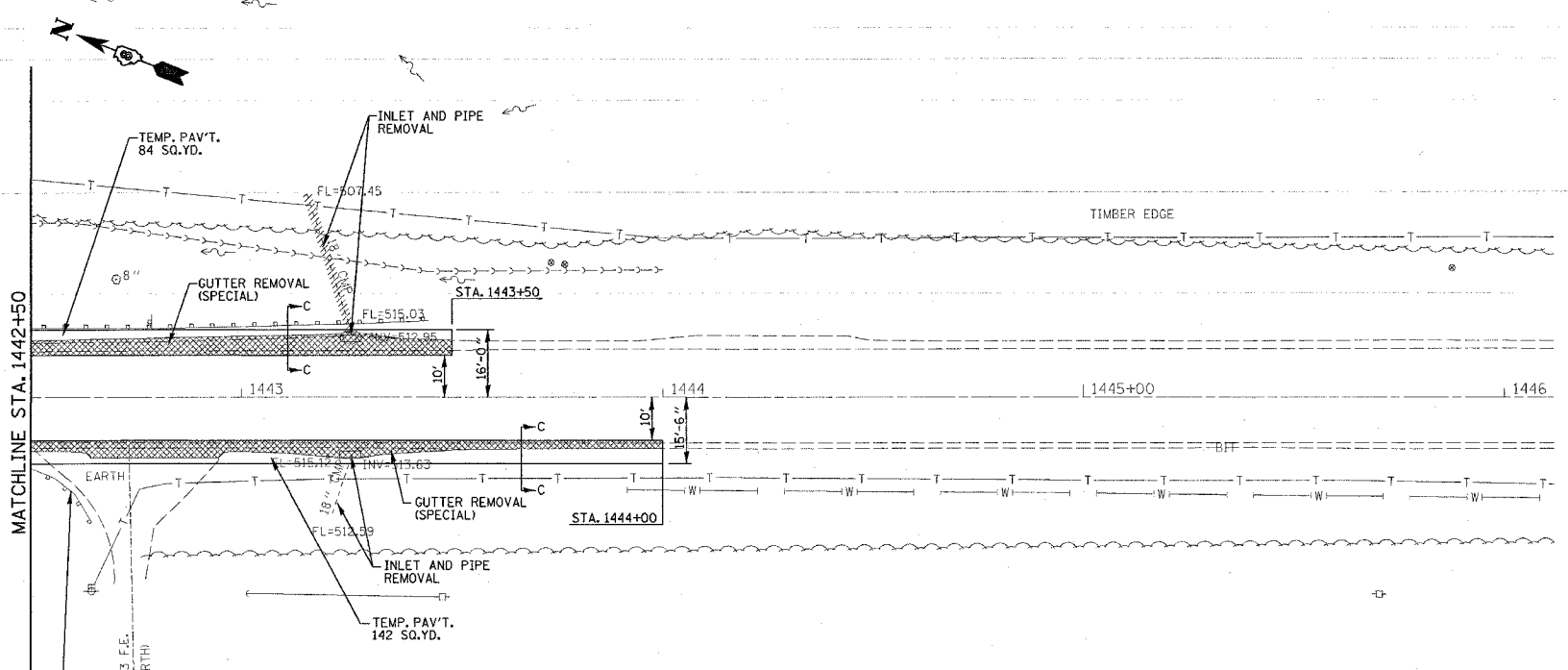
PRE-STAGE I DESCRIPTION OF WORK:
 CONSTRUCTION IN THIS STAGE SHALL INCLUDED GUARDRAIL REMOVAL, INLET/PIPE REMOVAL AND GUTTER REMOVAL. TEMPORARY WIDENING SHALL BE CONSTRUCTED TO ALLOW PROPOSED TRANSITION FOR THE TRAFFIC IN STAGE II-III AS SHOWN IN THE PLANS. ALL WORK SHALL BE COMPLETED UNDER STANDARD TRAFFIC CONTROL.

REMOVAL & RE-ERECT TRAFFIC BARRIER TERMINAL T-1 - 1 EA (TO BE SET IN RELATION TO THE TEMP. WIDENING)

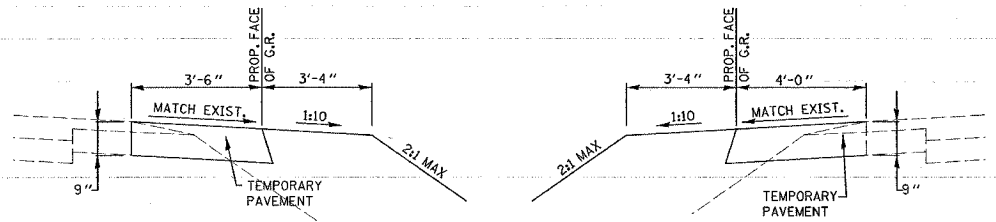
REMOVAL & RE-ERECT STEEL PLATE BEAM GUARDRAIL T-A - 113 FT (TO BE SET IN RELATION TO THE TEMP. WIDENING)

REMOVAL & RE-ERECT STEEL PLATE BEAM GUARDRAIL T-A - 30 FT (TO BE SET IN RELATION TO THE TEMP. WIDENING)

PLAN	DESIGNED	DATE
NOTED	BY	
ALIGNED	CHECKED	
NOTE BOOK	NO.	
CADD FILE NAME		

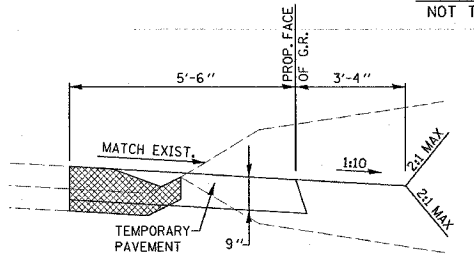


REMOVAL & RE-ERECT TRAFFIC BARRIER TERMINAL T-1 - 1 EA (TO BE SET IN RELATION TO THE TEMP. WIDENING)

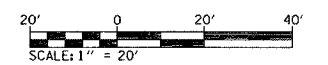


SECTION A-A
NOT TO SCALE

SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
PRE-STAGE 1
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:

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NORTH BOUND DETOUR - FOR INFORMATION ONLY						
DESCRIPTION	SIGN	QUANTITY	SIZE		AREA (sq. ft.)	WOOD POST (ft.)
			W (in.)	H (in.)		
BRIDGE CLOSED, XX MILES, LOCAL TRAFFIC ONLY	R11-3A	2	60	30	12.5	12.5
END DETOUR	M4-8b	1	24	18	3	12.5
NORTH	M3-1	14	24	12	2	12.5
ILLINOIS 160	M1-100	14	24	24	4	12.5
DETOUR <---	M4-9(L)	5	30	24	5	12.5
DETOUR -->	M4-9(R)	5	30	24	5	12.5
BRIDGE CLOSED, TYPE III BARRICADES	n/a	8 each				
DIRECTIONAL ARROW STRAIGHT	M6-3	2	21	15	2.1875	12.5
TOTAL					33.6875	87.5

LEGEND

— MARKED THROUGH TRAFFIC ROUTE

NOTES:

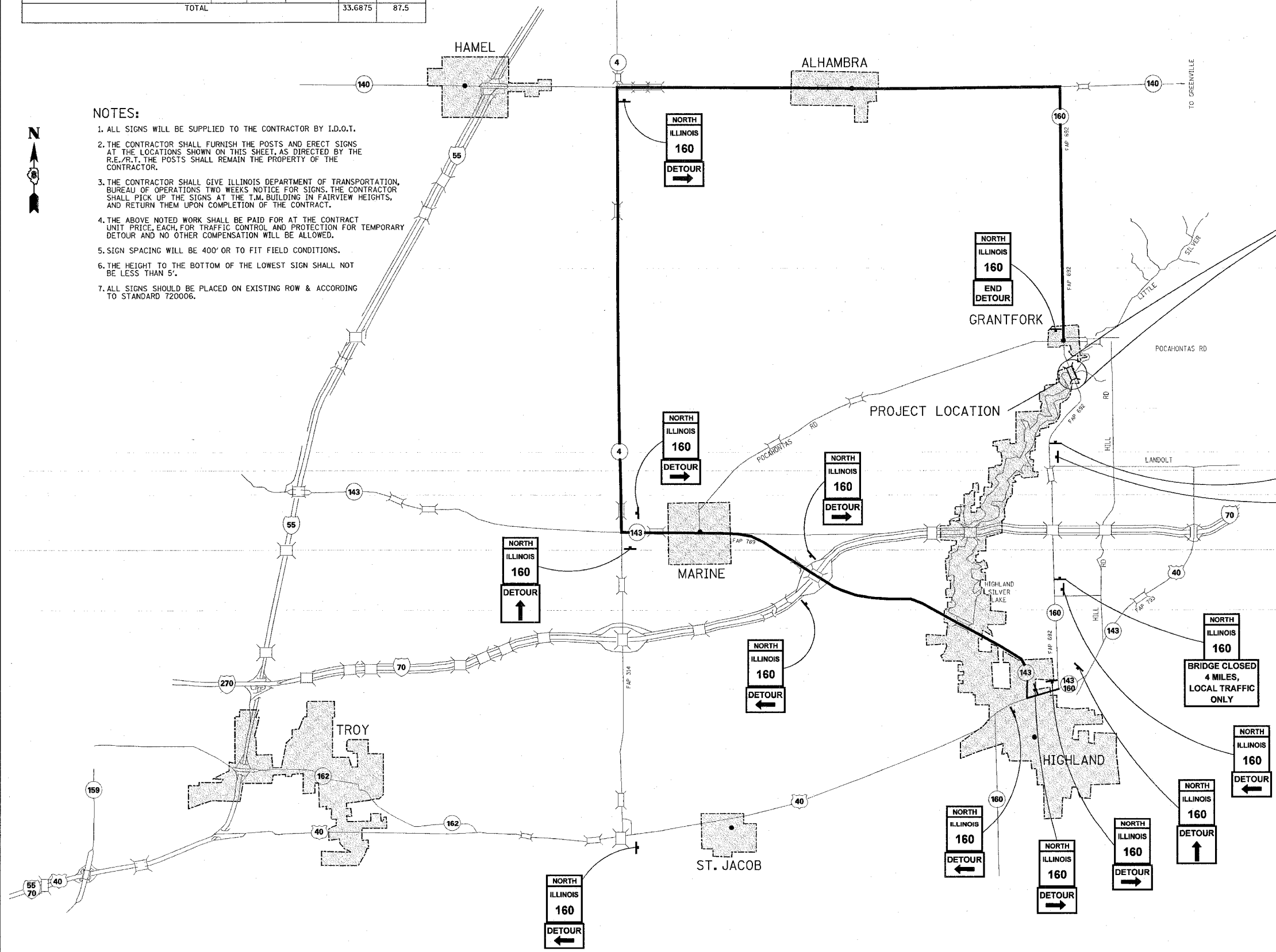
- ALL SIGNS WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
- THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT.
- THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR AND NO OTHER COMPENSATION WILL BE ALLOWED.
- SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
- THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 5'.
- ALL SIGNS SHOULD BE PLACED ON EXISTING ROW & ACCORDING TO STANDARD 720006.

BRIDGE CLOSED

TYPE III BARRICADES (SEE STAND 702001) TO BE PROVIDED BY THE CONTRACTOR & INCLUDED IN THE PRICE OF TC&P FOR TEMP. DETOUR

BRIDGE CLOSED 1 MILES, LOCAL TRAFFIC ONLY

BRIDGE CLOSED 4 MILES, LOCAL TRAFFIC ONLY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
STAGE 1 NORTHBOUND
DETOUR MAP
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:
 PLOT DATE: Monday, March 14, 2005 @ 1:43:14 PM
 DETOUR MAP - FAP 692 (IL 160)

PLAN	DATE
BY	
REVISIONS	
NO.	DATE
BY	
DESCRIPTION	

PROFILE	DATE
BY	
REVISIONS	
NO.	DATE
BY	
DESCRIPTION	

SOUTH BOUND DETOUR - FOR INFORMATION ONLY

DESCRIPTION	SIGN	QUANTITY	SIZE		AREA (sq.ft.)	WOOD POST (ft.)
			W (in.)	H (in.)		
BRIDGE CLOSED, XX MILES, LOCAL TRAFFIC ONLY	R11-3A	2	60	30	12.5	12.5
SOUTH	M3-3	9	24	12	2	12.5
ILLINOIS 160	M1-100	9	24	24	4	12.5
DETOUR <---	M4-9(L)	4	30	24	5	12.5
DETOUR --->	M4-9(R)	2	30	24	5	12.5
DIRECTIONAL ARROW STRAIGHT	M6-3	2	21	15	2,187.5	12.5
BRIDGE CLOSED, TYPE III BARRICADES	n/a	8 each				12.5
TOTAL					30,687.5	87.5

NOTES:

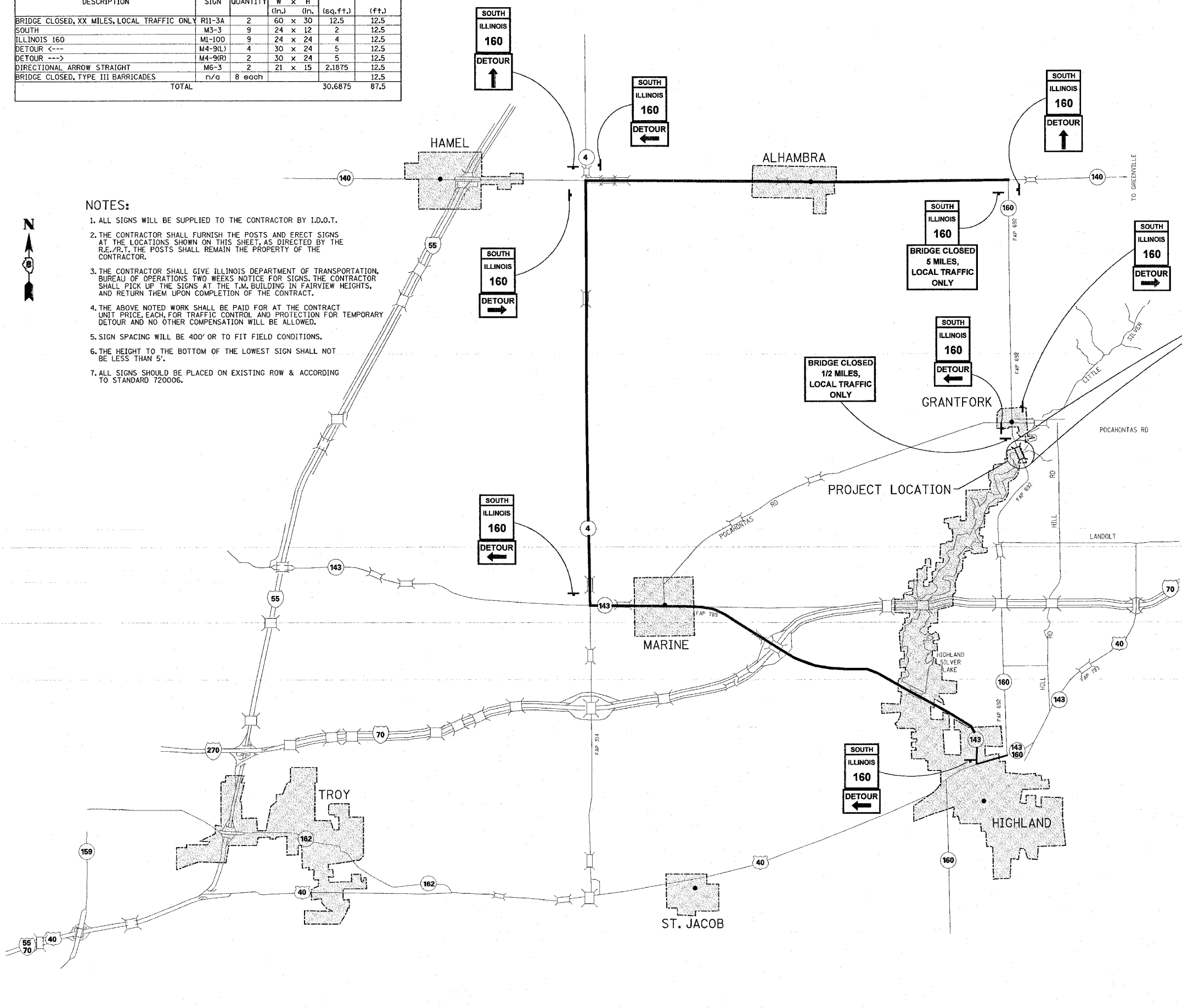
1. ALL SIGNS WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR 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 5'.
7. ALL SIGNS SHOULD BE PLACED ON EXISTING ROW & ACCORDING TO STANDARD 720006.



PLAN	DATE	BY
REVISED		
NOTED		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
REVISED		
NOTED		
NOTE BOOK		
NO.		

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LEGEND
 ——— MARKED STATE THROUGH TRAFFIC ROUTE

BRIDGE CLOSED
 TYPE III BARRICADES (SEE STAND 702001) TO BE PROVIDED BY THE CONTRACTOR & INCLUDED IN THE PRICE OF TC&P FOR TEMP. DETOUR

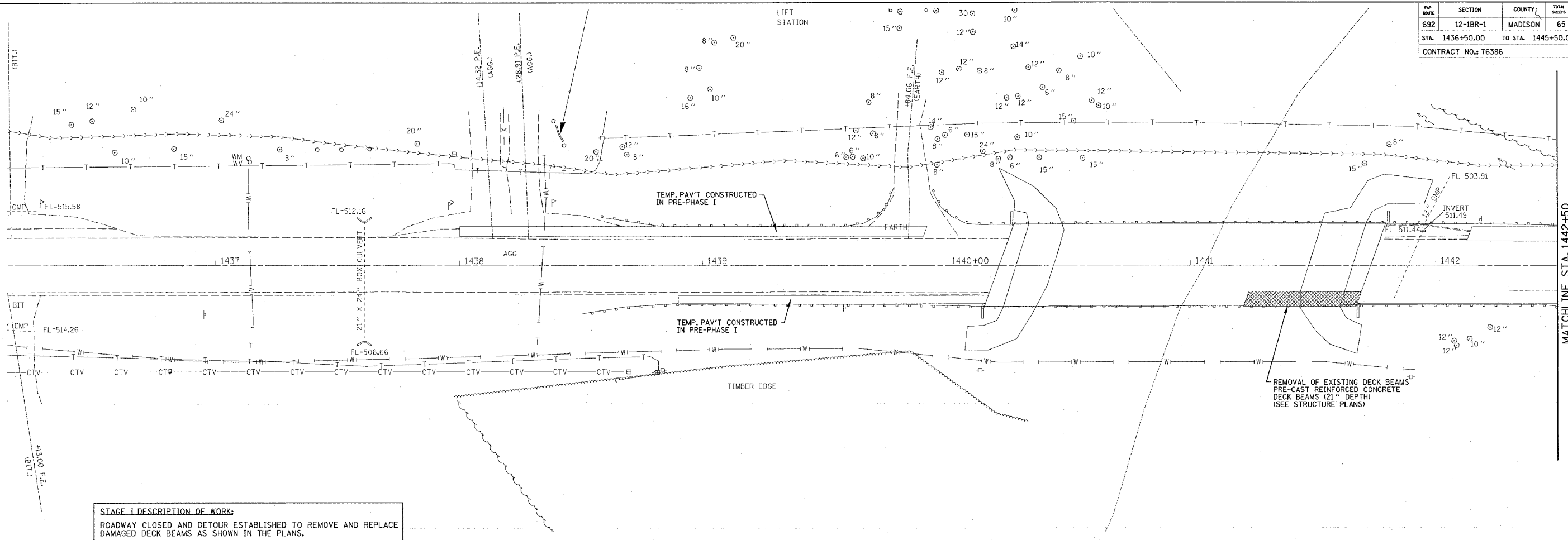
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
STAGE 1 SOUTHBOUND
DETOUR MAP
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:

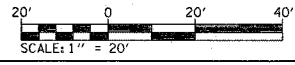
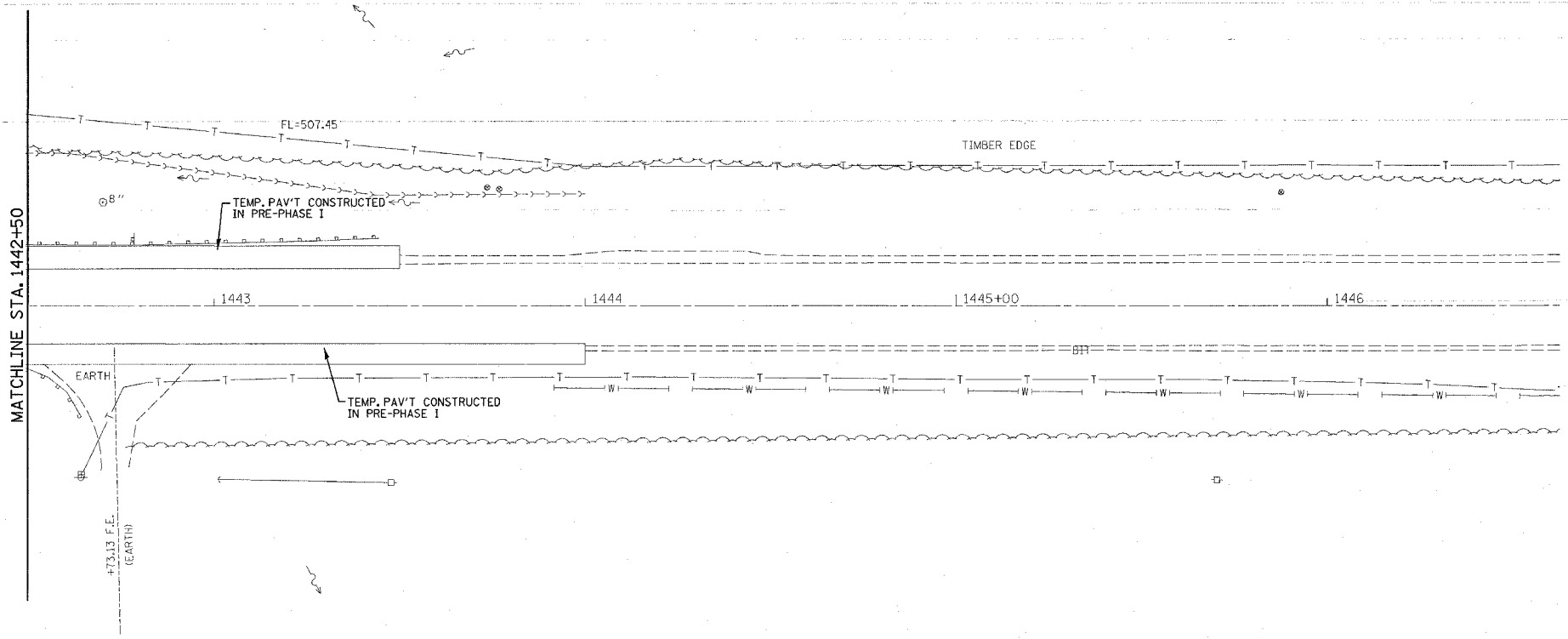
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	18
STA. 1436+50.00		TO STA. 1445+50.00		
CONTRACT NO.: 76386				

DATE	BY	DRAWN
REVISED	DATE	BY
NO.		
DRAWN BY:		
CHECKED BY:		
DATE:		
PROJECT:		
SHEET NO.:		
SHEET TOTAL:		
DRAWING NO.:		
DATE:		



STAGE I DESCRIPTION OF WORK:
ROADWAY CLOSED AND DETOUR ESTABLISHED TO REMOVE AND REPLACE DAMAGED DECK BEAMS AS SHOWN IN THE PLANS.

DATE	BY	DRAWN
REVISED	DATE	BY
NO.		
DRAWN BY:		
CHECKED BY:		
DATE:		
PROJECT:		
SHEET NO.:		
SHEET TOTAL:		
DRAWING NO.:		
DATE:		



ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
STAGE 1
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:

REVISIONS	
NAME	DATE

WIDE LOAD DETOUR - FOR INFORMATION ONLY						
DESCRIPTION	SIGN	QUANTITY	SIZE		AREA (sq.ft.)	WOOD POST (ft.)
			W x H (In.)	(In.)		
ILLINOIS 160	M1-100	17	24 x 24	4	12.5	
WIDE LOAD	n/a	11	20 x 15	2.0875	12.5	
DETOUR <---	M4-9(L)	4	30 x 24	5	12.5	
DETOUR --->	M4-9(R)	2	30 x 24	5	12.5	
MAX. WIDTH 9 FT. 6 IN. 2 MILES AHEAD	n/a	4	48 x 48	16	12.5	
MAX. WIDTH 9 FT. 6 IN. 6 MILES AHEAD	n/a	2	48 x 48	16	12.5	
MAX. WIDTH 9 FT. 6 IN. 5 MILES AHEAD	n/a	1	48 x 48	16	12.5	
NORTH	M3-1	2	24 x 12	2	12.5	
SOUTH	M3-3	3	24 x 12	2	12.5	
DIRECTIONAL ARROW STRAIGHT	M6-3	5	21 x 15	2.1875	12.5	
TOTAL					70.275	125

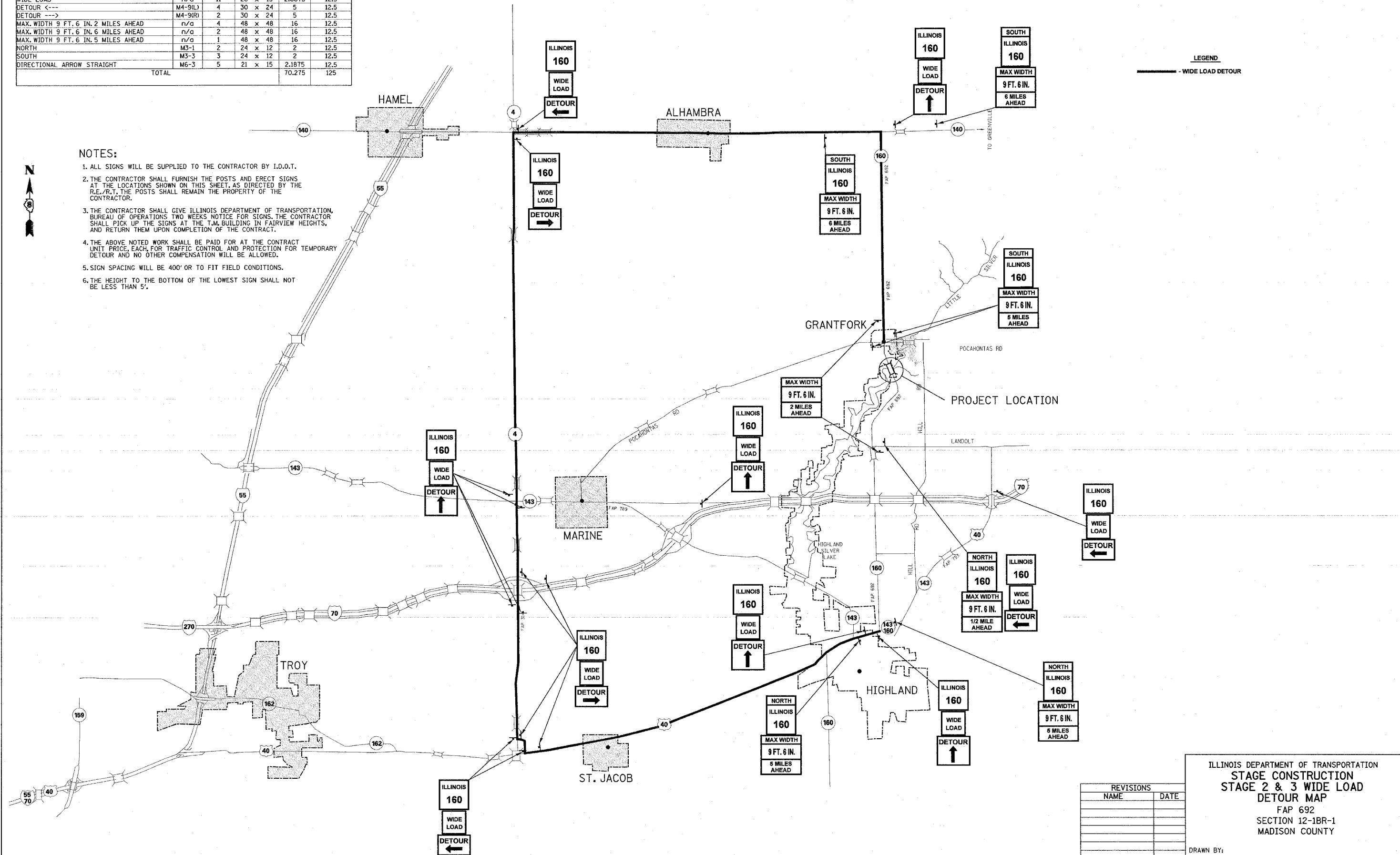
NOTES:

1. ALL SIGNS 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 SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT.
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR 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 5'.



PLAN	DATE	BY
REVISIONS		
NO.		
DATE		
BY		
DESCRIPTION		

PROFILE	DATE	BY
REVISIONS		
NO.		
DATE		
BY		
DESCRIPTION		

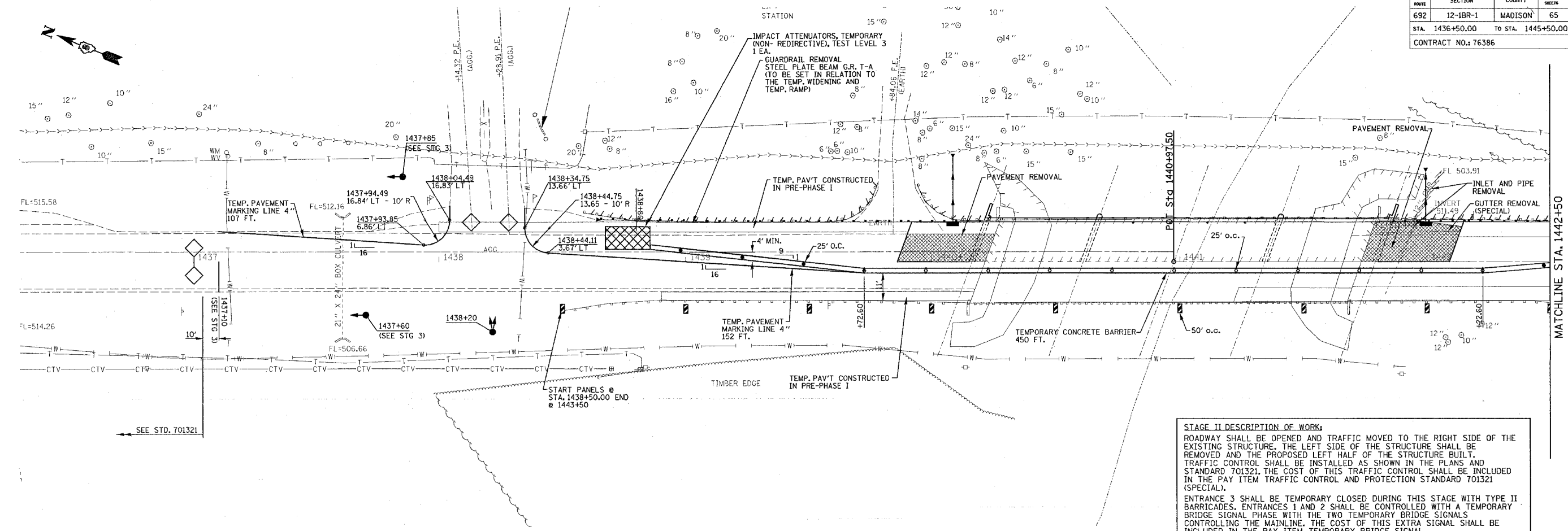


LEGEND
 - - - - - WIDE LOAD DETOUR

REVISIONS	
NAME	DATE

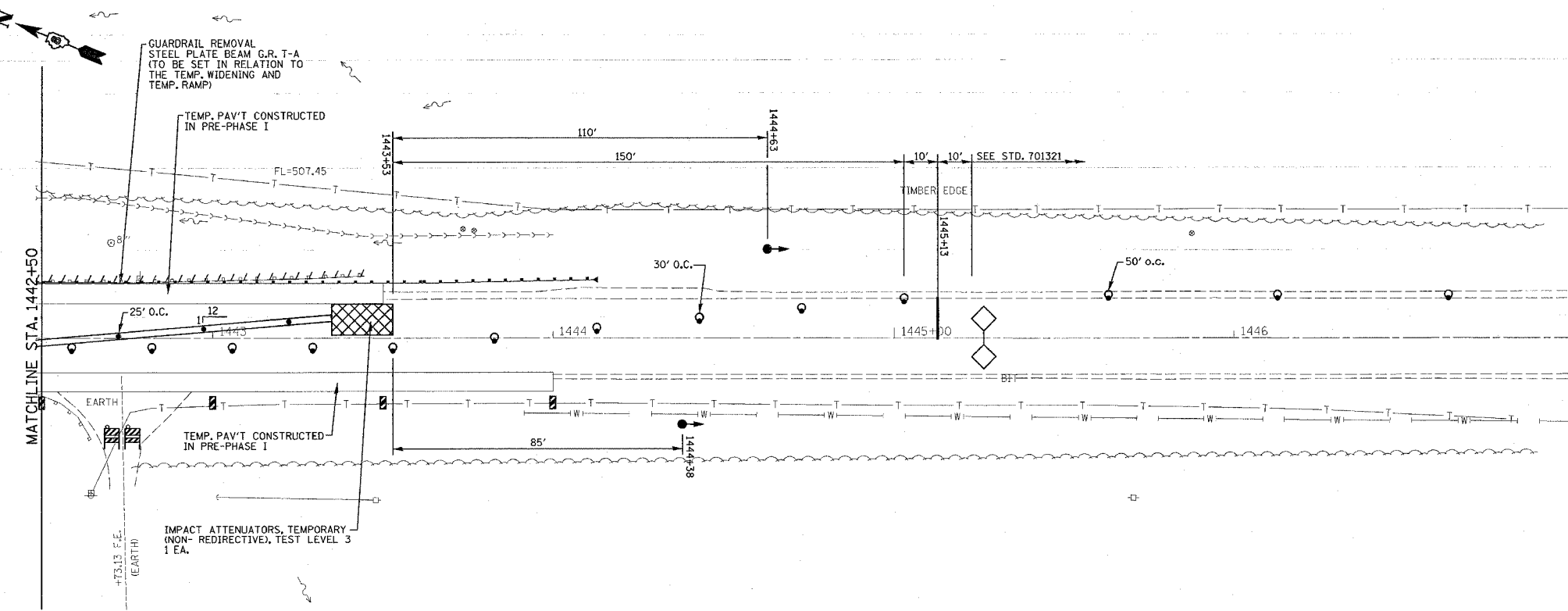
ILLINOIS DEPARTMENT OF TRANSPORTATION
 STAGE CONSTRUCTION
 STAGE 2 & 3 WIDE LOAD
 DETOUR MAP
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY
 DRAWN BY:

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	20
STA. 1436+50.00		TO STA. 1445+50.00		
CONTRACT NO.: 76386				

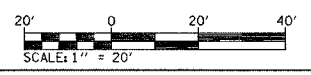


STAGE II DESCRIPTION OF WORK:
 ROADWAY SHALL BE OPENED AND TRAFFIC MOVED TO THE RIGHT SIDE OF THE EXISTING STRUCTURE. THE LEFT SIDE OF THE STRUCTURE SHALL BE REMOVED AND THE PROPOSED LEFT HALF OF THE STRUCTURE BUILT. TRAFFIC CONTROL SHALL BE INSTALLED AS SHOWN IN THE PLANS AND STANDARD 701321. THE COST OF THIS TRAFFIC CONTROL SHALL BE INCLUDED IN THE PAY ITEM TRAFFIC CONTROL AND PROTECTION STANDARD 701321 (SPECIAL).
 ENTRANCE 3 SHALL BE TEMPORARY CLOSED DURING THIS STAGE WITH TYPE II BARRICADES. ENTRANCES 1 AND 2 SHALL BE CONTROLLED WITH A TEMPORARY BRIDGE SIGNAL PHASE WITH THE TWO TEMPORARY BRIDGE SIGNALS CONTROLLING THE MAINLINE. THE COST OF THIS EXTRA SIGNAL SHALL BE INCLUDED IN THE PAY ITEM TEMPORARY BRIDGE SIGNAL.

DATE	BY	REVISION
		1. APPROVED FOR CONSTRUCTION
		2. ALIGNED AND CHECKED
		3. PLAN FILE NAME
		4. NO.
		5. PLAN



- LEGEND**
- ↑ SIGN
 - DRUM W/ STEADY BURNING LIGHT
 - TRAFFIC SIGNAL
 - ◇ INDUCTOR LOOP DETECTOR
 - ▬ DOUBLE VERTICAL PANEL
 - ◇ TYPE C BIDIRECTIONAL REFLECTOR
 - ▨ IMPACT ATTENUATOR
 - STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

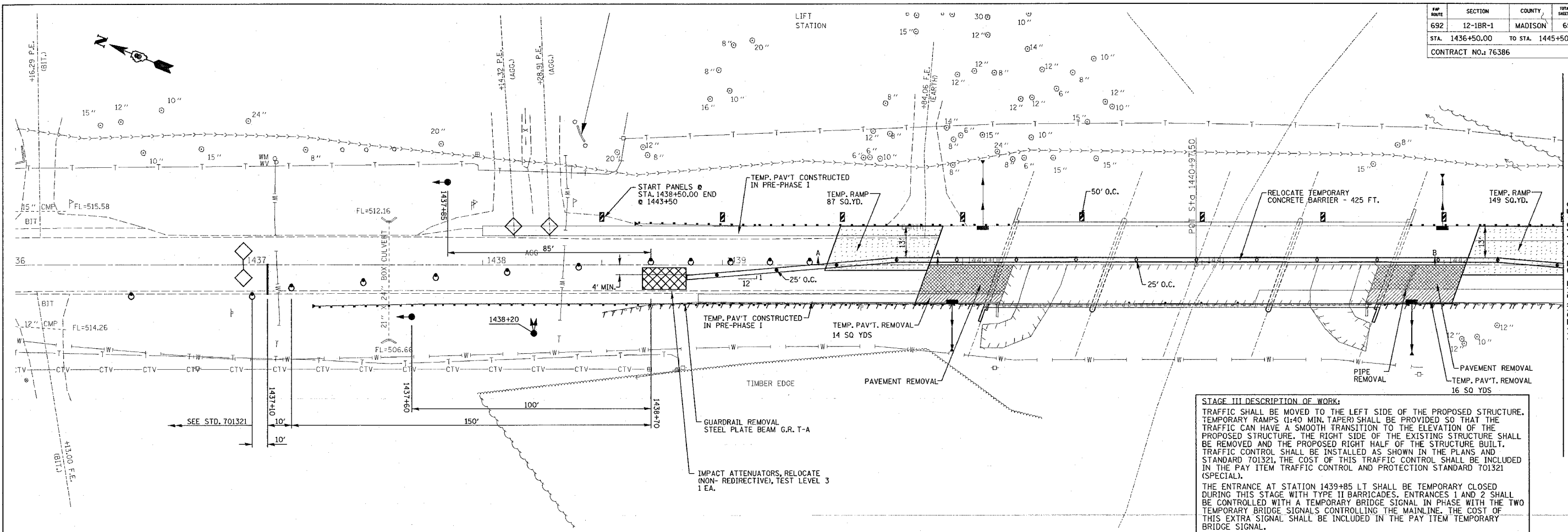


ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
STAGE 2
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

REVISIONS	
NAME	DATE

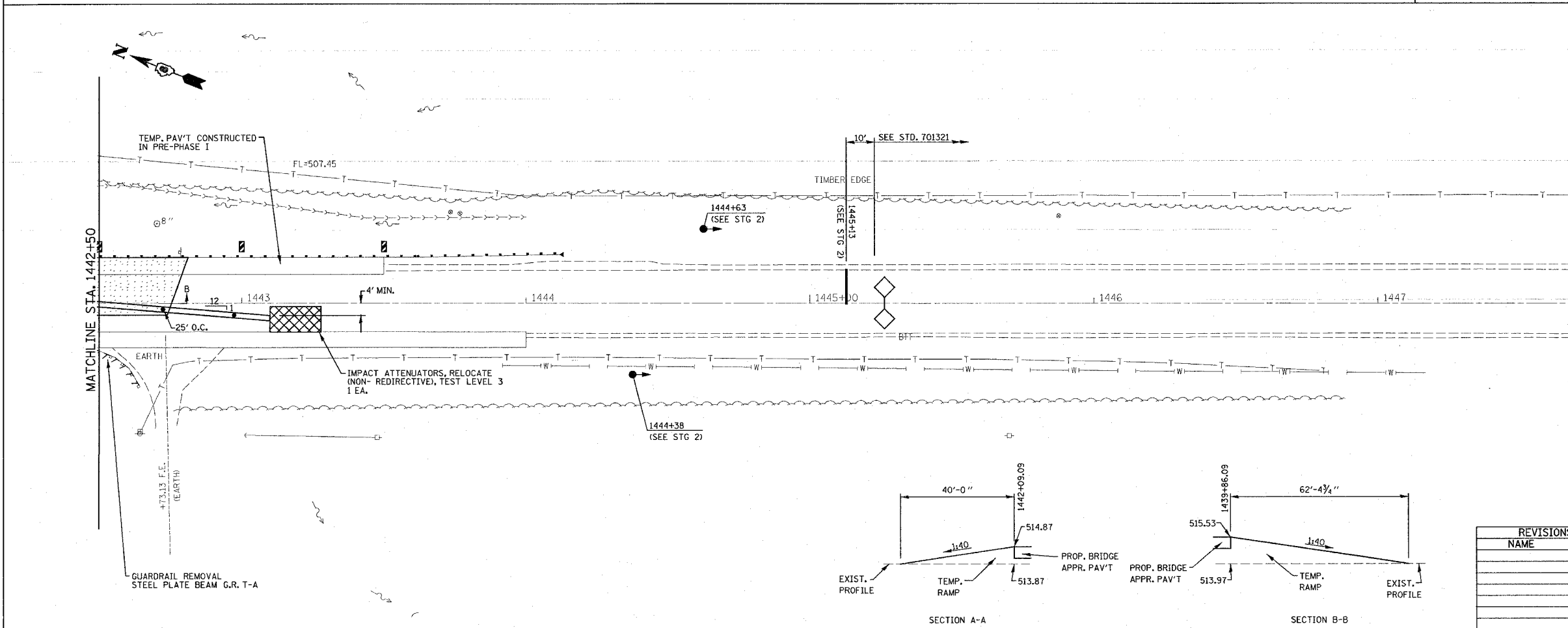
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STAGE III DESCRIPTION OF WORK:
 TRAFFIC SHALL BE MOVED TO THE LEFT SIDE OF THE PROPOSED STRUCTURE. TEMPORARY RAMPS (1:40 MIN. TAPER) SHALL BE PROVIDED SO THAT THE TRAFFIC CAN HAVE A SMOOTH TRANSITION TO THE ELEVATION OF THE PROPOSED STRUCTURE. THE RIGHT SIDE OF THE EXISTING STRUCTURE SHALL BE REMOVED AND THE PROPOSED RIGHT HALF OF THE STRUCTURE BUILT. TRAFFIC CONTROL SHALL BE INSTALLED AS SHOWN IN THE PLANS AND STANDARD 701321. THE COST OF THIS TRAFFIC CONTROL SHALL BE INCLUDED IN THE PAY ITEM TRAFFIC CONTROL AND PROTECTION STANDARD 701321 (SPECIAL).

THE ENTRANCE AT STATION 1439+85 LT SHALL BE TEMPORARILY CLOSED DURING THIS STAGE WITH TYPE II BARRICADES. ENTRANCES 1 AND 2 SHALL BE CONTROLLED WITH A TEMPORARY BRIDGE SIGNAL IN PHASE WITH THE TWO TEMPORARY BRIDGE SIGNALS CONTROLLING THE MAINLINE. THE COST OF THIS EXTRA SIGNAL SHALL BE INCLUDED IN THE PAY ITEM TEMPORARY BRIDGE SIGNAL.



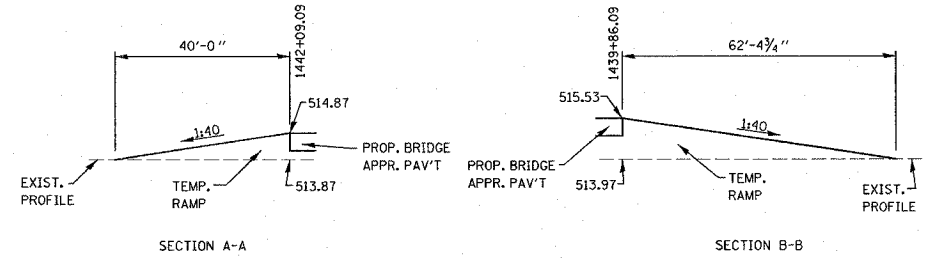
- LEGEND**
- SIGN
 - DRUM W/ STEADY BURNING LIGHT
 - TRAFFIC SIGNAL
 - INDUCTOR LOOP DETECTOR
 - DOUBLE VERTICAL PANEL
 - TYPE C BIDIRECTIONAL REFLECTOR
 - IMPACT ATTENUATOR
 - STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS



REVISIONS	
NAME	DATE

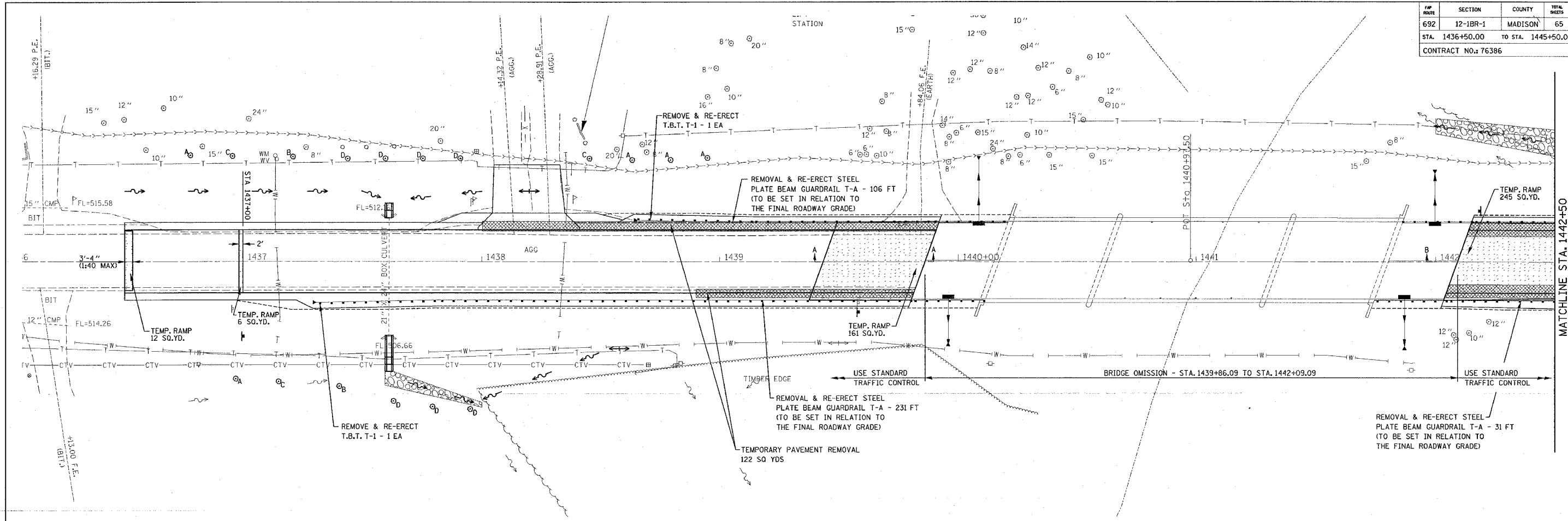
ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
STAGE 3
 FAP 692
 SECTION 12-IBR-1
 MADISON COUNTY

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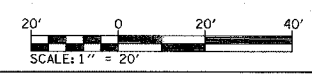
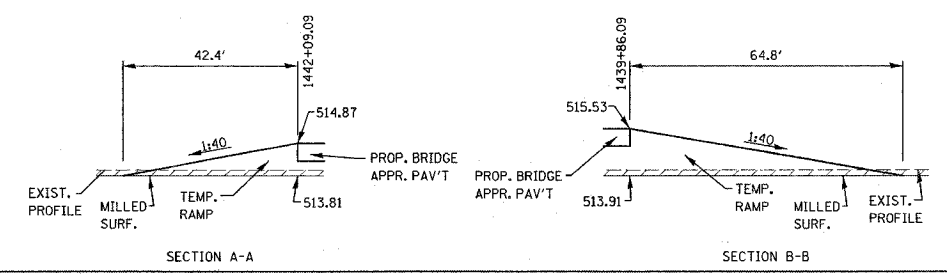
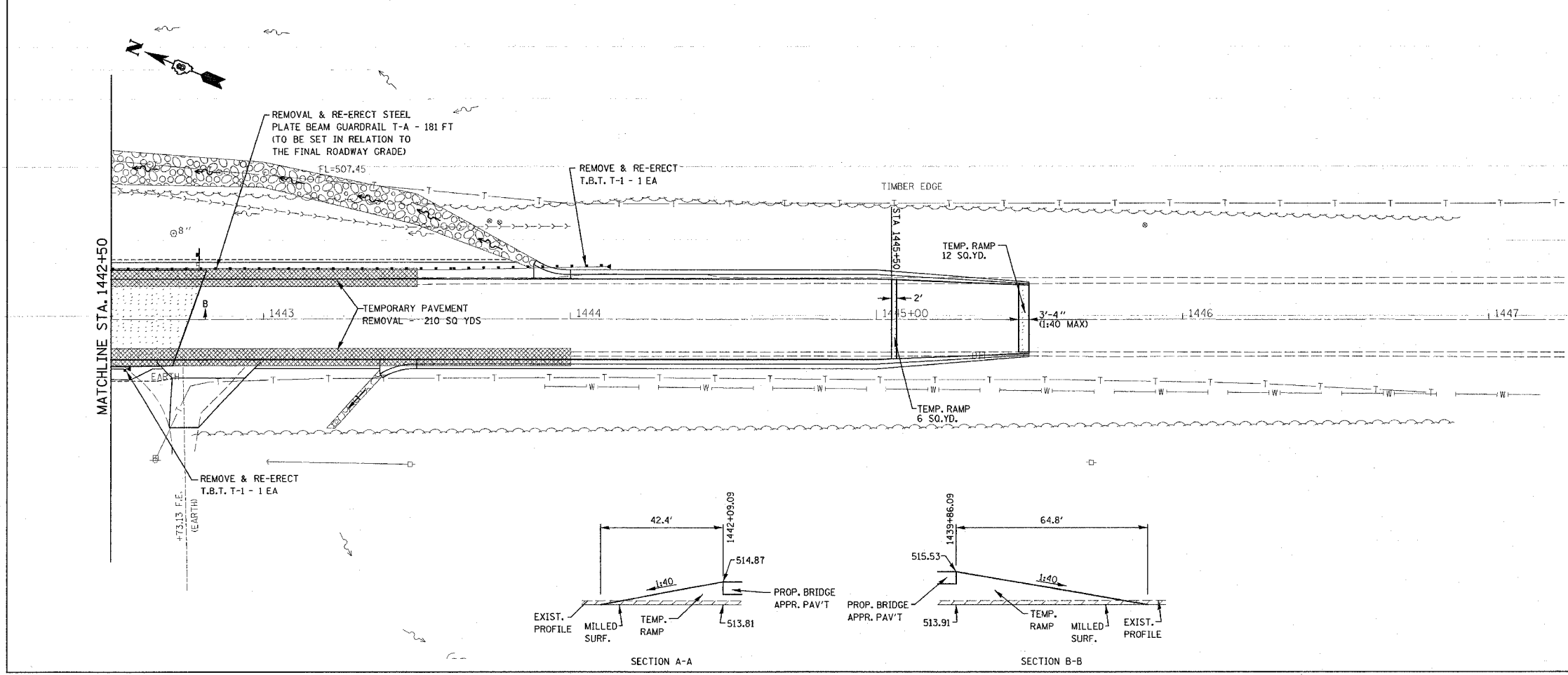


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FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	22
STA. 1436+50.00		TO STA. 1445+50.00		
CONTRACT NO.: 76386				



STAGE IV DESCRIPTION OF WORK:
 REMAINING ROAD WORK SHALL BE COMPLETED, INCLUDING CULVERT EXTENSION, EARTHWORK, ENTRANCE RECONSTRUCTION, TREES INSTALLATION, GUARDRAIL, RIPRAP, SHOULDERS, GUTTER, GRADE RAISE WITH LEVELING BINDER, SURFACE COURSE, PAVEMENT MARKING, ETC. TEMPORARY RAMPS (1:40 MIN. TAPER) SHALL BE PROVIDED AT THE BUTT JOINTS AND PROPOSED STRUCTURE. ALL WORK IN THIS STAGE SHALL BE COMPLETED UNDER STANDARD TRAFFIC CONTROL.
 ENTRANCE AT STATION 1439+85 LEFT SHALL BE PERMANENTLY CLOSED DURING AND AFTER THIS STAGE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION
STAGE 4
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:
 PLOT DATE: Monday March 14, 2005 @ 1:43:12 PM
 STAGE CONSTRUCTION - FAP 692 (IL 160)

5/14/2005
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PART OF THE W 1/2 OF SECTION 4, T. 4 N, R. 5 W., OF THE 3RD PM, MADISON COUNTY, ILLINOIS.

76386

COORDINATE TABLE
(COORDINATES SHOWN HEREON ARE ASSUMED)

DESCRIPTION	NORTH	EAST	STATION	OFFSET
PROJECT BEGIN	785,937.068	2,438,963.400	1436+00.00	0.00 RT
PROPOSED ROW	785,873.868	2,438,940.361	1436+50.00	45.00 RT
PROPOSED ROW	785,750.458	2,438,968.552	1437+75.00	65.00 RT
PROPOSED ROW	785,704.085	2,438,987.249	1438+25.00	65.00 RT
PROPOSED ROW	785,663.321	2,439,019.857	1438+75.00	50.00 RT
PROPOSED ROW	785,589.939	2,439,157.263	1439+94.44	50.00 LT
PROPOSED ROW	785,590.119	2,439,262.627	1440+33.67	147.79 LT
FND PK NAIL	785,475.657	2,439,149.428	1440+97.50	0.00 RT
PROPOSED ROW	785,495.774	2,439,206.010	1441+00.00	60.00 LT
FND IP	785,591.001	2,439,779.180	1442+26.00	627.20 LT
PROPOSED ROW	785,269.150	2,439,178.775	1443+00.00	50.00 RT
PROPOSED ROW	785,226.517	2,439,206.745	1443+50.00	40.00 RT
FND PK NAIL	785,102.355	2,439,299.933	1445+00.00	0.00 RT
PROJECT END	784,824.117	2,439,412.110	1448+00.00	0.00 RT

NOTES:
BEARINGS SHOWN HEREON ARE BASED ON THE NORTH LINE OF SW 1/4 SECTION 4-4-5 BEING S 89° 54' 08" W.
COORDINATES SHOWN HEREON ARE ASSUMED.
FIELD WORK WAS COMPLETED SEPTEMBER, 2004.

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692 (IL160)	12-1BR-1	MADISON	65	23

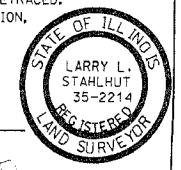
LEGEND

- QUARTER SECTION CORNER
- SECTION CORNER
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- PROPERTY (EED) LINE
- APPARENT PROPERTY LINE
- [0.00'] MEASURED DIMENSION
- <0.00'> COMPUTED DIMENSION
- (0.00') RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- STONE FOUND
- AXLE FOUND
- PK NAIL FOUND
- SET IRON PIN 1/2 INCH RE-BAR
- SAME OWNERSHIP
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STATE OF ILLINOIS)
COUNTY OF) SS

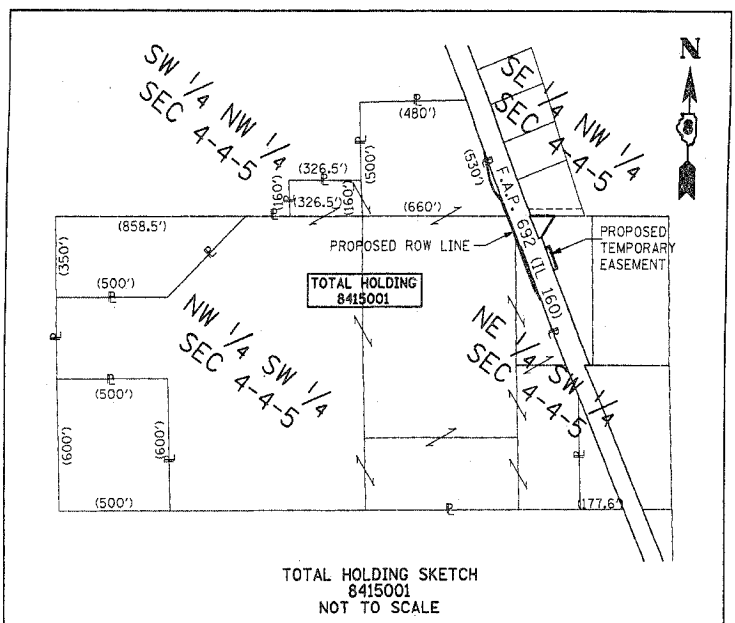
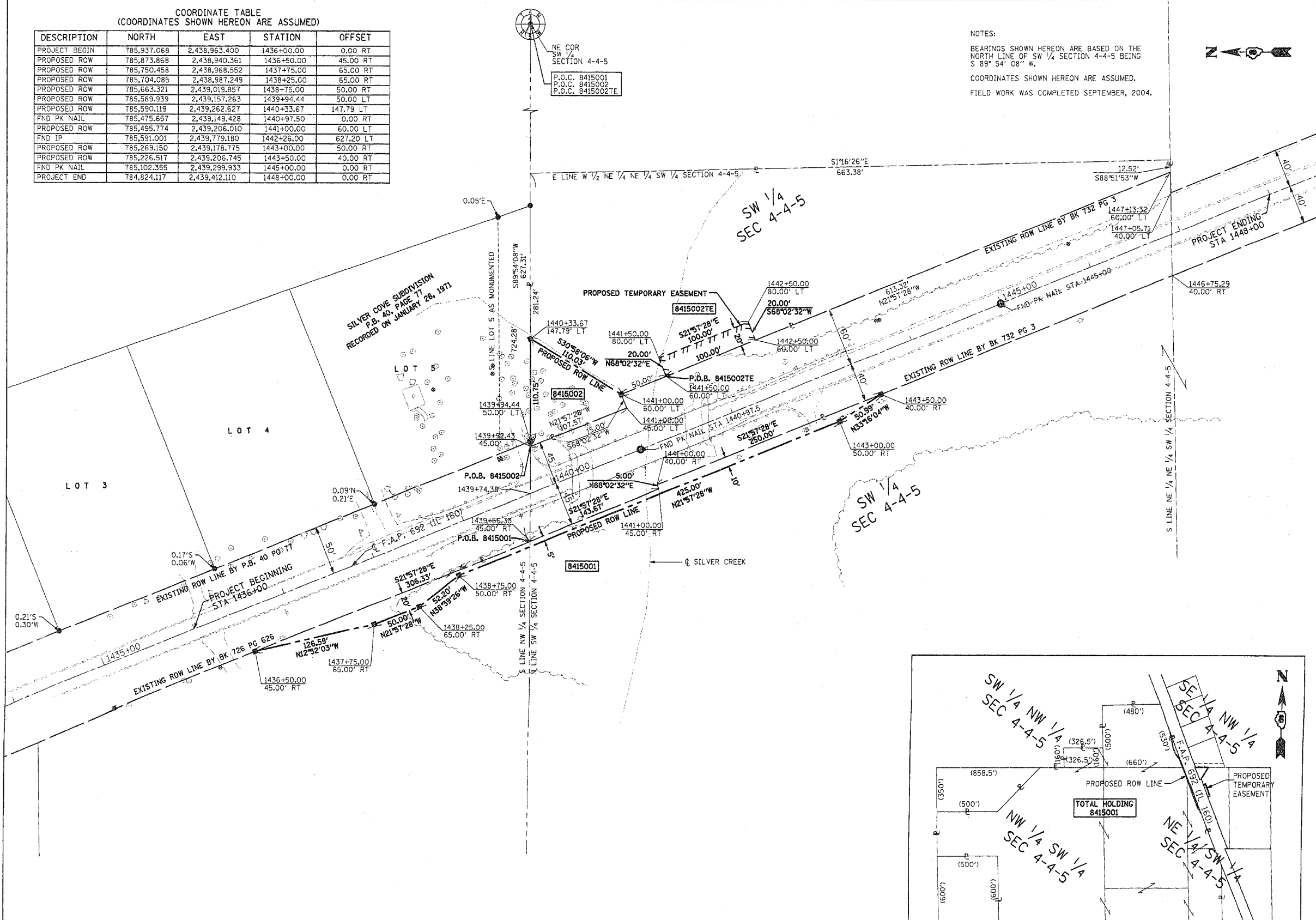
THIS IS TO CERTIFY THAT I, LARRY L. STAHLHUT, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF SURVEY SHOWN HEREIN IN SECTION 4 TOWNSHIP 4 NORTH, RANGE 5 WEST, OF THE THIRD PRINCIPAL MERIDIAN, MADISON COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED: _____
LARRY L. STAHLHUT
MY LICENSE EXPIRES 11/30/2004



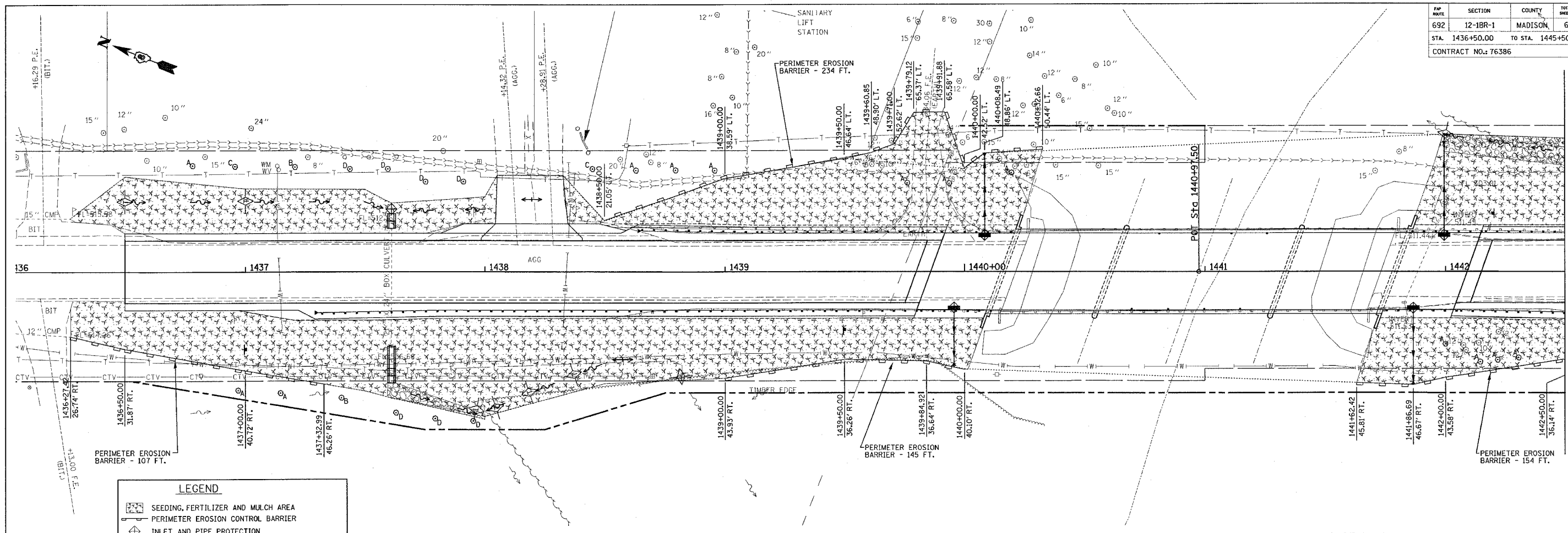
CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
314 WOLF STREET EDWARDSVILLE, IL 62025
(618)656-0470

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 692 (IL 160)
SECTION: 12-1BR-1
MADISON COUNTY
JOB NO. R-98-015-04
SCALE: 1" = 50'
SHEET 2 OF 2 SHEETS
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

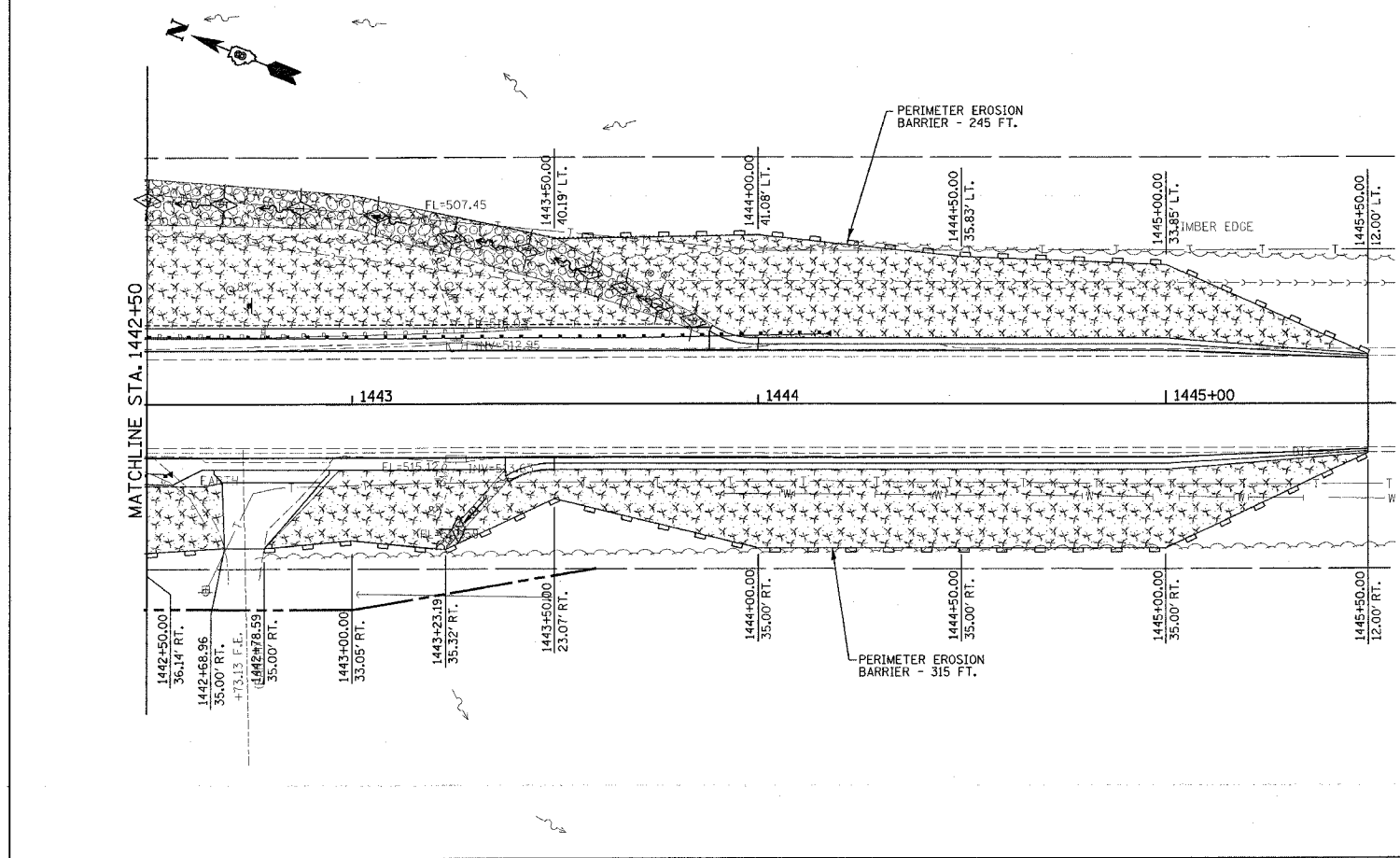


PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
8415001	THE CITY OF HIGHLAND TITLE REPORT NO. MA-3326.0	N/A	6,250 SF 0.143 AC	N/A	N/A	N/A	N/A	N/A	02-1-18-04-00-000-030	
8415002	HIGHLAND SUPPLY CORPORATION TITLE REPORT NO. MA-3327.0	93,654 SF 2.150 AC	6,026 SF 0.138 AC	N/A	87,628 SF 2.012 AC	2,000 SF 0.046 AC	N/A	N/A	02-1-18-04-00-000-029	

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
692	12-1BR-1	MADISON	65	24
STA. 1436+50.00 TO STA. 1445+50.00				
CONTRACT NO.: 76386				



LEGEND	
	SEEDING, FERTILIZER AND MULCH AREA
	PERIMETER EROSION CONTROL BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK



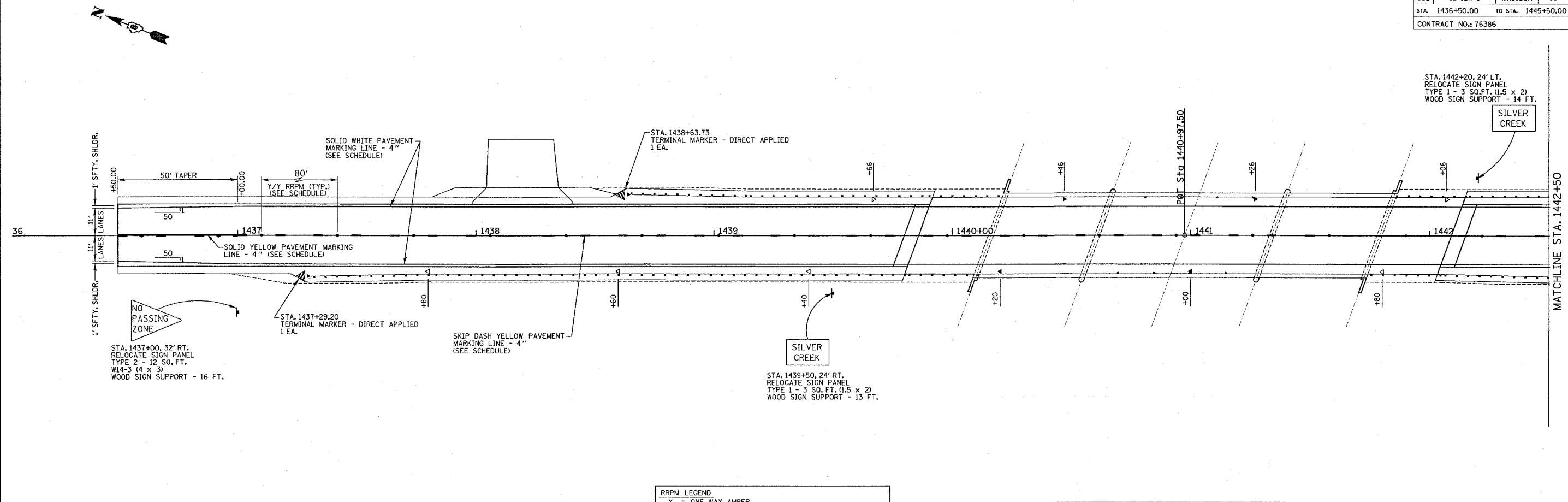
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EROSION & SEDIMENT CONTROL PLAN
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:

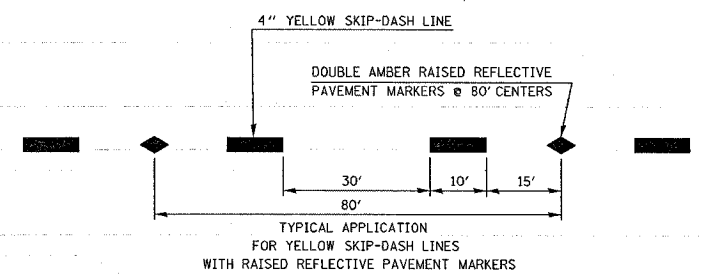
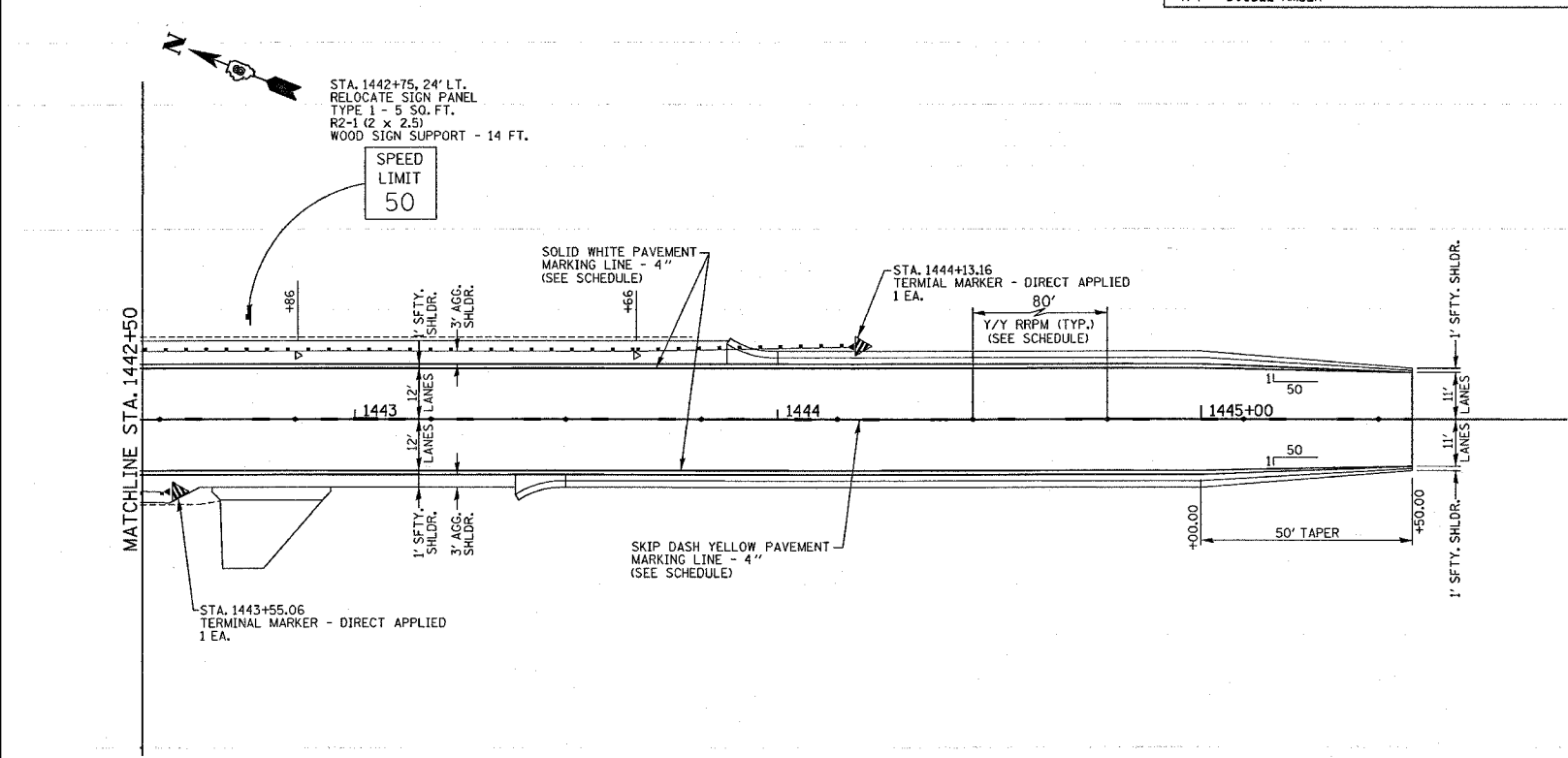
PLOT DATE: Tuesday May 03, 2005 @ 8:06:31 AM
 EROSION CONTROL PLAN - FAP 692 (IL 160)

5/3/2005 8:06:31 AM
 c:\projects\erap\erap\erap.dgn L:\1-63



RRPM LEGEND

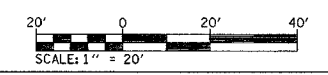
Y = ONE WAY AMBER
W/O = WHITE OPAQUE
Y/Y = DOUBLE AMBER



DETAIL 'A'

LEGEND

▲ - TERMINAL MARKER - DIRECT APPLIED
△ - GUARDRAIL MARKERS
◄ - BARRIER WALL MARKERS



ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING AND SIGNING PLAN
FAP 692
SECTION 12-1BR-1
MADISON COUNTY

REVISIONS	
NAME	DATE

DRAWN BY:

3/14/2005
Monday March 14, 2005 @ 1:32:33 PM
C:\projects\76386\plan\p12br1.dwg L111-63

Bench Mark: Chiseled "□" at the NE corner of structure 060-0131, Elev. 514.05

Existing Structure: S.N. 060-0131 built in 1937 as F.A. Rte. 156, Sec. 12-B. In 1974 the superstructure was replaced and the substructure was widened. The existing three span structure consists of precast prestressed concrete deck beams supported by column abutments and column piers, dimensions are 155'-2 1/4" bk. to bk. abutments and 33'-0" o. to o. with a 20° skew. The existing structure is to be removed and replaced utilizing stage construction.

No salvage

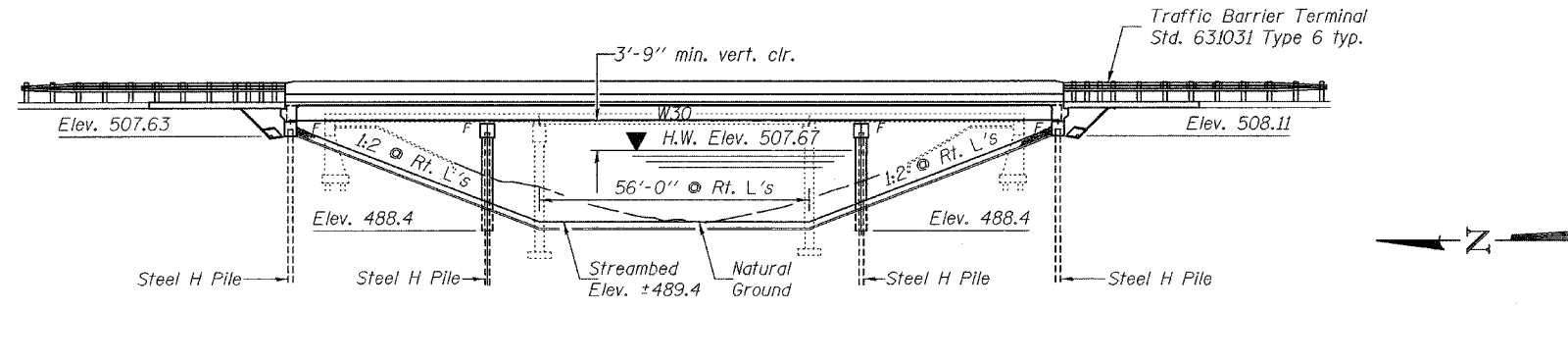
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOWNSHIP	RANGE	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON		26	20 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

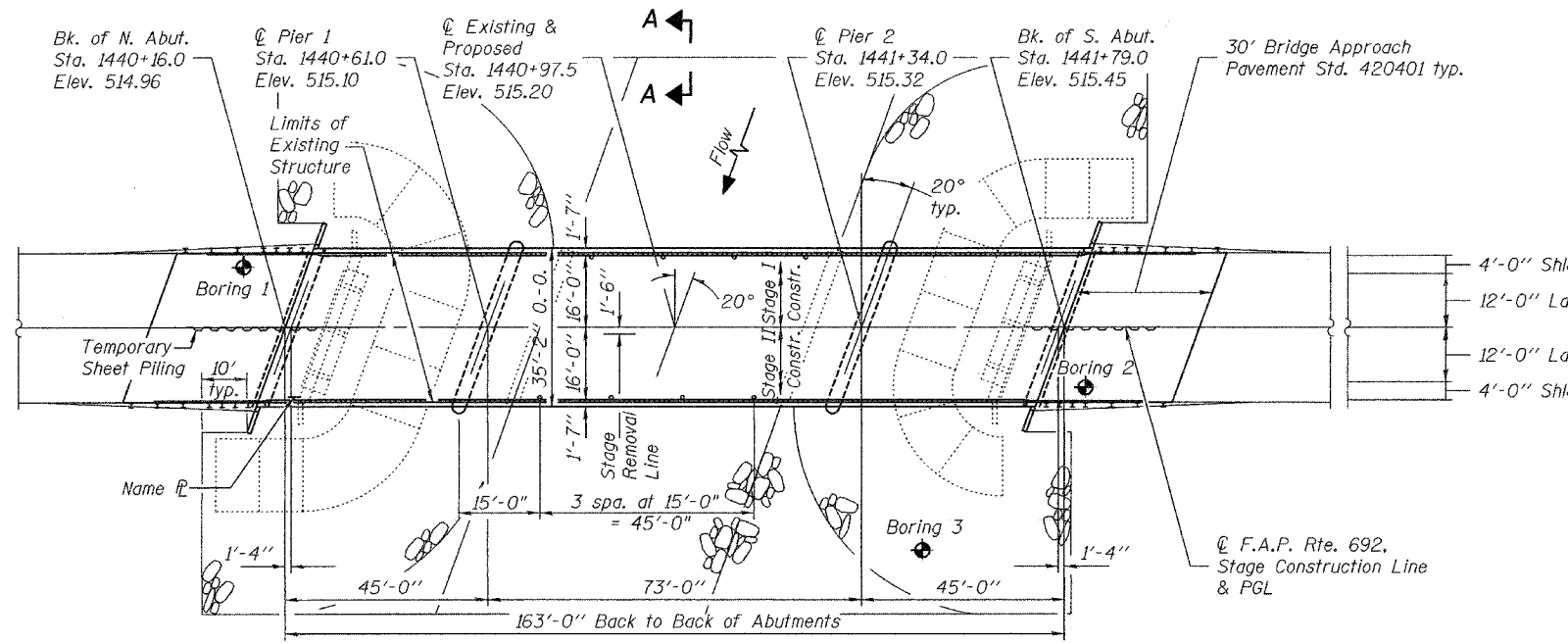
Contract #76386

GENERAL NOTES

Fasteners shall be high strength bolts. Bolts 7/8" φ, open holes 15/16" φ, unless otherwise noted.
 Calculated weight of Structural Steel = 112,050 AASHTO M 270 Gr. 50.
 Calculated weight of Structural Steel = 11,830 AASHTO M 270 Gr. 36.
 Field welding of construction accessories will not be permitted to beams.
 Anchor bolts shall be set before bolting diaphragms over supports.
 The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.
 Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 1/8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
 The contractor shall drive two test piles in a permanent location one at each abutment as directed by the Engineer before ordering the remainder of piles.
 All Construction joints shall be bonded.
 In addition to all other requirements of section 512 of the Standard specifications, splices for HP 14x89 piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration butt welding of the entire cross section. Other types of splices meeting the full capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all piles. Nondestructive testing of completed welds will be limited to visual inspection.
 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 Interstate Green, Munsell No. 7.5 G 4/8. See special provisions for Cleaning and Painting New Metal Structures.



ELEVATION



PLAN

INDEX OF SHEETS

1. General Plan
2. Temporary Sheet Piling
3. Stage Construction Details
4. Temporary Concrete Barrier
- 5.-6. Top of Slab Elevations
- 7.-9. Superstructure Details
- 10.-11. Structural Steel
12. Bearings
13. Anchor Bolts
14. North Abutment
15. South Abutment
16. Piers 1 & 2
17. Bar Splicer Details
- 18.-20. Boring Logs

WATERWAY INFORMATION

Drainage Area = 38.9 Sq. Mi. Low Grade Elev. 513.81 @ Sta. 1440+11

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	50	9,470	1,250	1,556	507.67	0.94	0.66	508.61	508.33
Base	100	10,700	1,331	1,640	508.35	1.06	0.74	509.41	509.09
Scour	10	6,520	978	1,270	505.22	0.81	0.60	506.03	505.82
Max. Calc.	500	12,700	1,524	1,838	509.91	1.13	0.81	511.04	510.72

STATION 1440+97.5
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 692 SEC. 12-1BR-1
LOADING HL 93
STR. NO. 060-0335

NAME PLATE
See Std. 515001

LOADING HL 93
w/FWS = 50 psf

DESIGN SPECIFICATIONS
1998 AASHTO LRFD Bridge Design Specifications with 1999 thru 2003 Interims.
2002 AASHTO Division I-A Seismic Design Specifications

DESIGN STRESSES

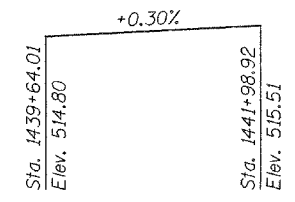
FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (structural steel AASHTO M 270, Gr. 50)
f_y = 36,000 psi (structural steel AASHTO M 270, Gr. 36)

SEISMIC DATA

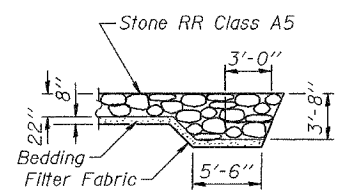
Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.10g
Site Coefficient (S) = 1.5

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		137	137
Stone Riprap, Class A5	Sq. Yd.		2717	2717
Filter Fabric for Riprap	Sq. Yd.		2717	2717
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		100.6	100.6
Driving Steel Piles	Foot		315	315
Floor Drains	Each	8		8
Concrete Structures	Cu. Yd.		189.9	189.9
Concrete Superstructure	Cu. Yd.	199.5		199.5
Bridge Deck Grooving	Sq. Yd.	542.2		542.2
Protective Coat	Sq. Yd.	716.1		716.1
Furnishing and Erecting Structural Steel	L. Sum			1
Stud Shear Connectors	Each	2934		2934
Reinforcement Bars, Epoxy Coated	Pound	45400	13000	58400
Furnishing Steel Piles HP 14x89	Foot		1067	1067
Test Pile Steel HP 14x89	Each		2	2
Temporary Sheet Piling	Sq. Ft.		420.4	420.4
Name Plates	Each	1		1
Bar Splicers	Each	523	122	645
Underwater Structure Excavation Protection Location 1	Each		1	1
Underwater Structure Excavation Protection Location 2	Each		1	1
Setting Piles in Rock	Each		16	16



PROFILE GRADE
(along Q roadway)



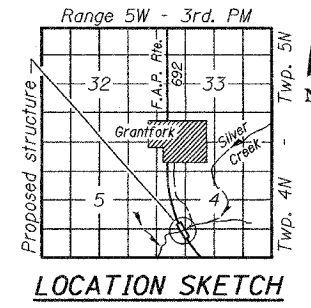
SECTION A-A

DESIGNED	Tom Hartschuh
CHECKED	Alan Johnson
DRAWN	Paul Sumner
CHECKED	TWK AMT

EXAMINED April 22, 2005
PASSED
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2006

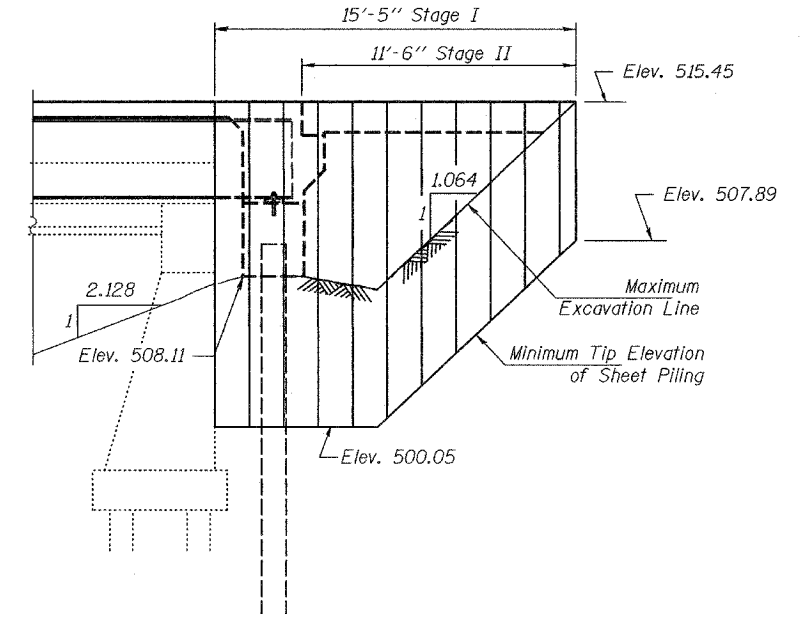
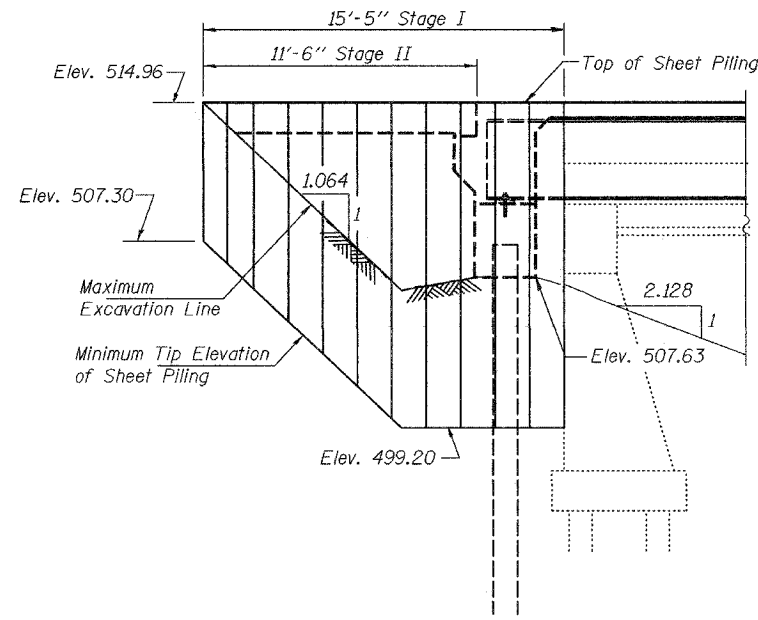


GENERAL PLAN
ILLINOIS ROUTE 160 OVER
SILVER CREEK
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	27	2
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #76386

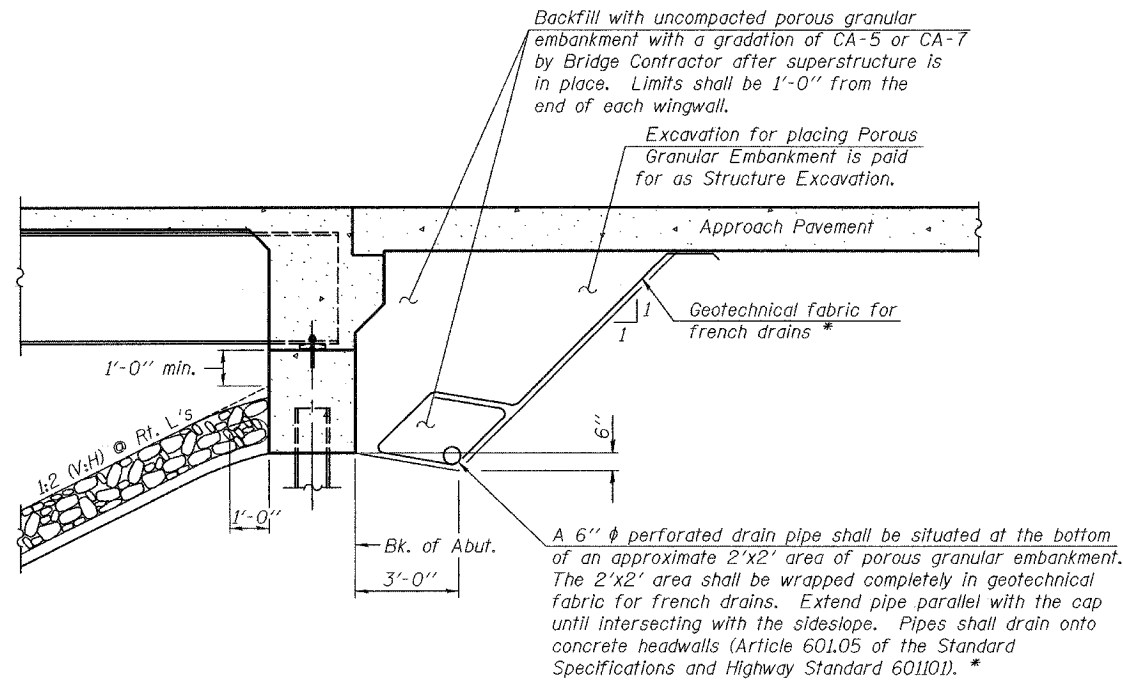


ELEVATION
NORTH ABUTMENT

ELEVATION
SOUTH ABUTMENT

TEMPORARY SHEET PILING DETAIL

Notes:
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
Minimum section modulus for the Temporary Sheet Piling shall be 7.0 in³/ft.
Slopes and distances shown along 20° skew.



* Included in the cost of Porous Granular Embankment.

SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

APPROVED	Apr-11 22, 2005
EXAMINED	Thomas J. Domagalaki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

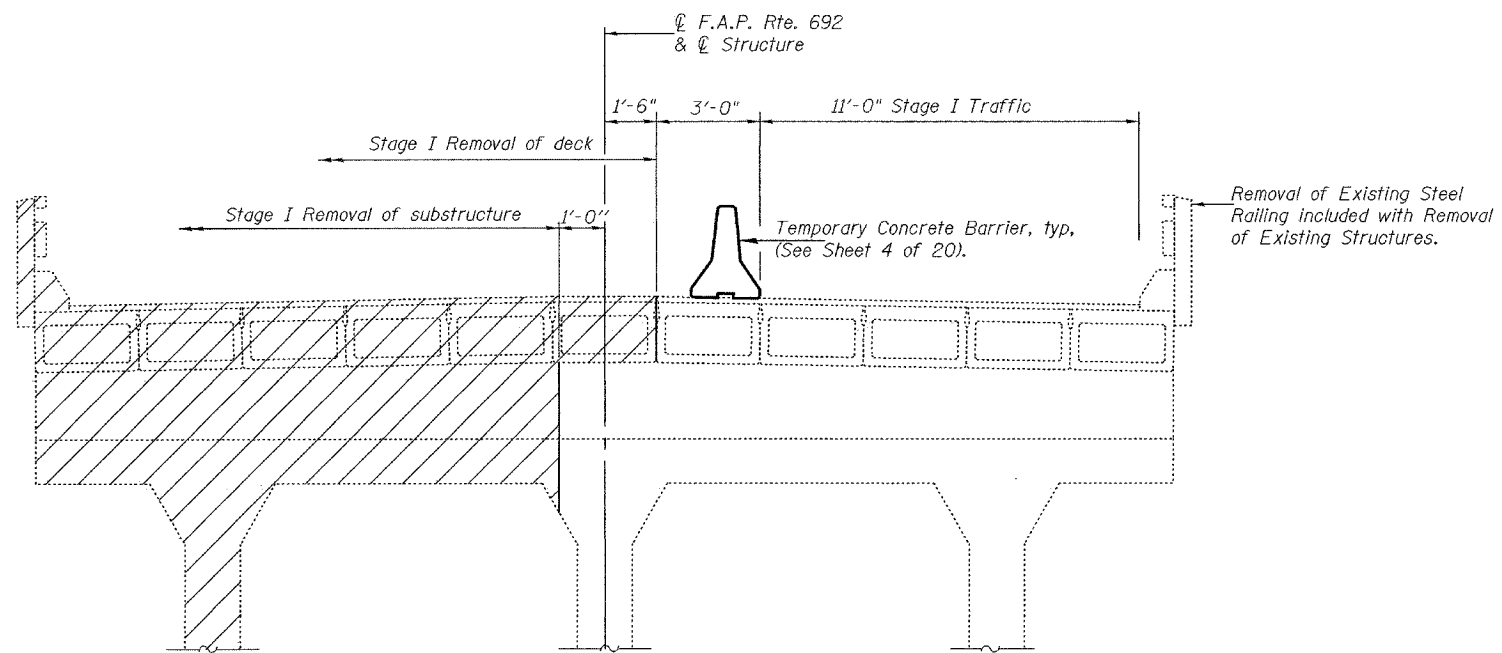
DETAILS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

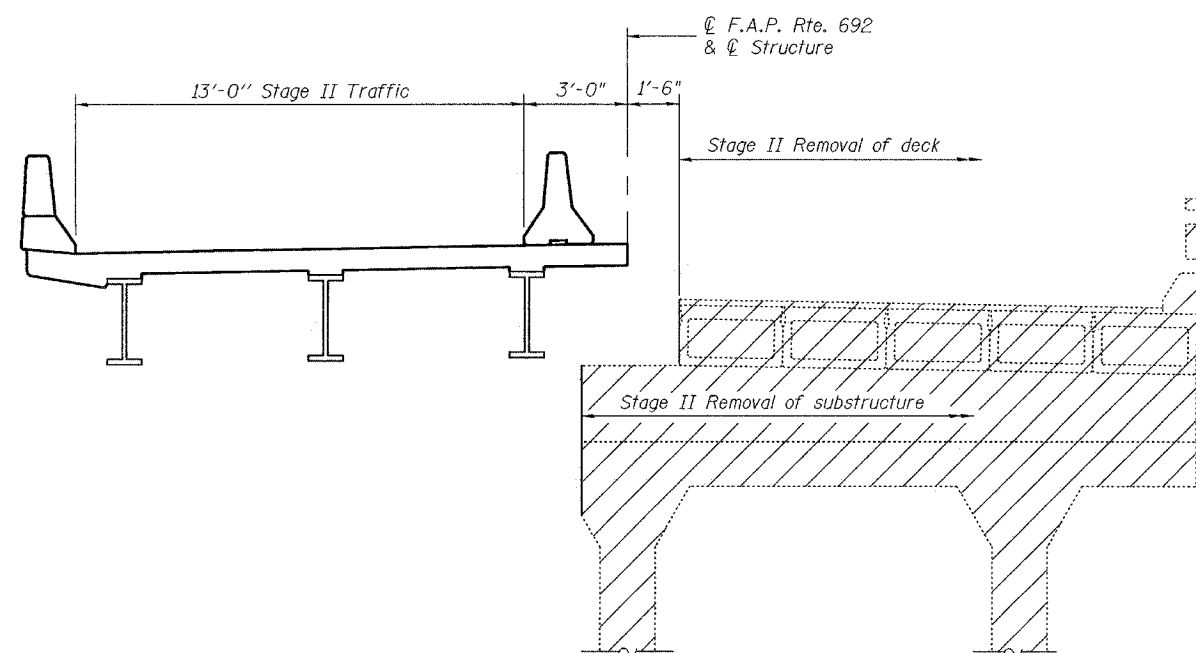
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET
F.A.P. 692	12-1BR-1	MADISON		20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
20 SHEETS

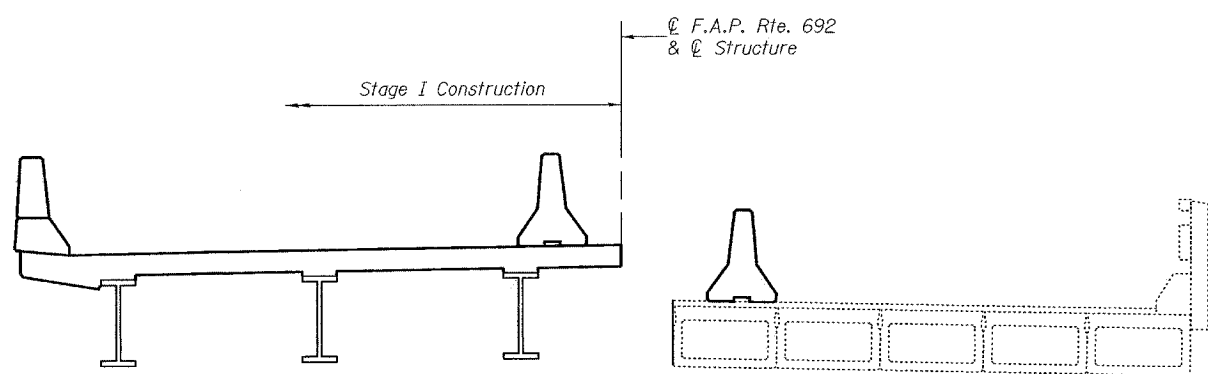
Contract #76386



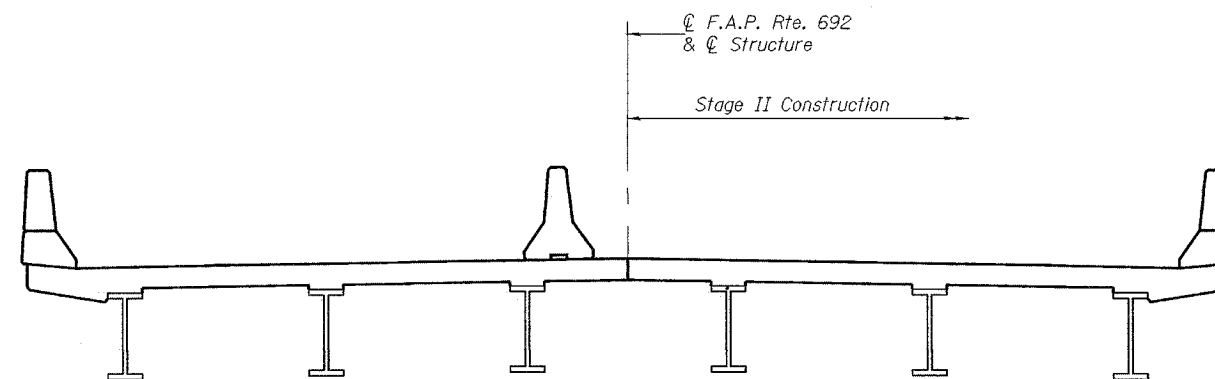
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Notes:
All sections are looking South.
For quantity of Temporary Concrete Barrier, see roadway plans.
Hatched area indicates Removal of Existing Structures.
For details of Temporary Concrete Barrier, see sheet 4 of 20.
The existing substructure units each have three columns. Only one column and a portion of the cap shall be removed during stage I removal.

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

Apr 11 22, 2005
EXAMINED *Thomas J. Demagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

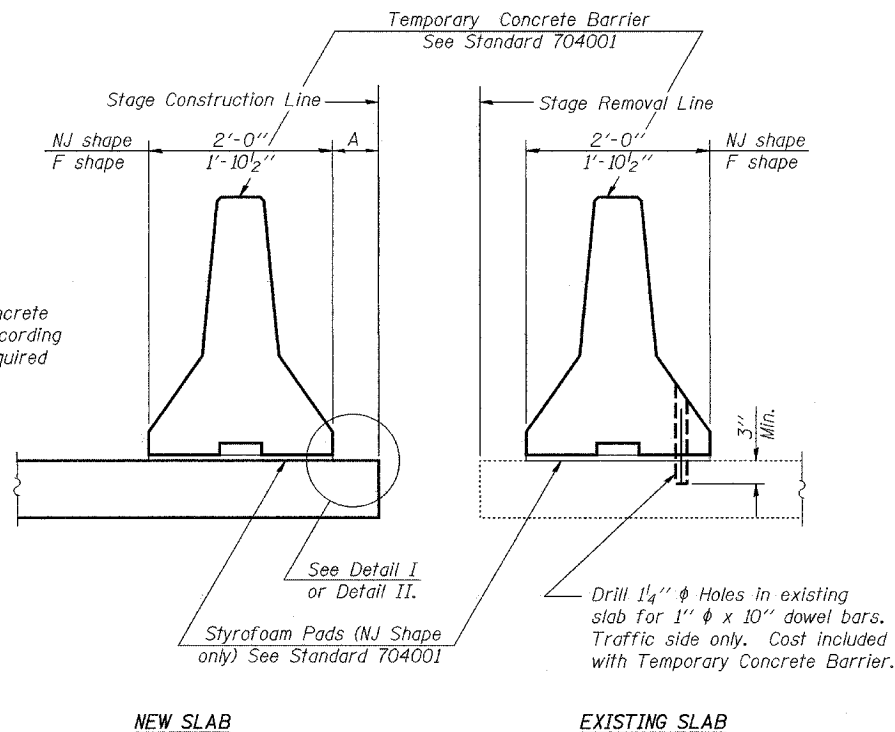
STAGE CONSTRUCTION DETAILS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

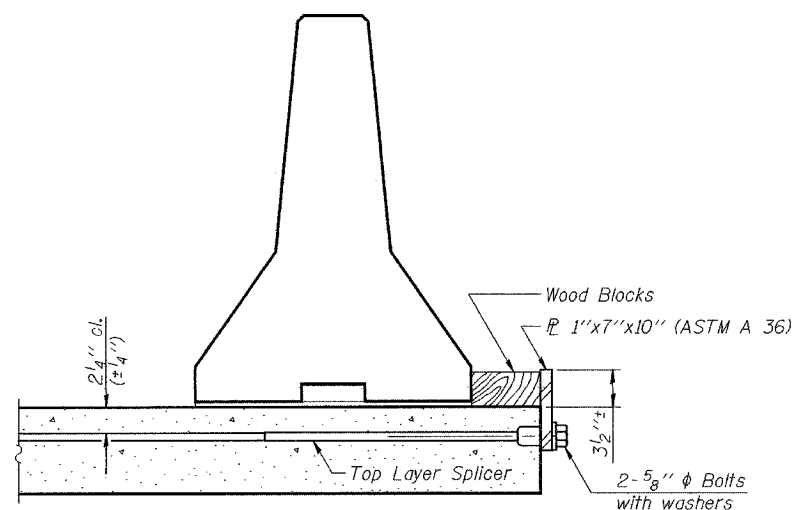
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.P. 692	12-1BR -1	MADISON		29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
20 SHEETS

Contract #76386

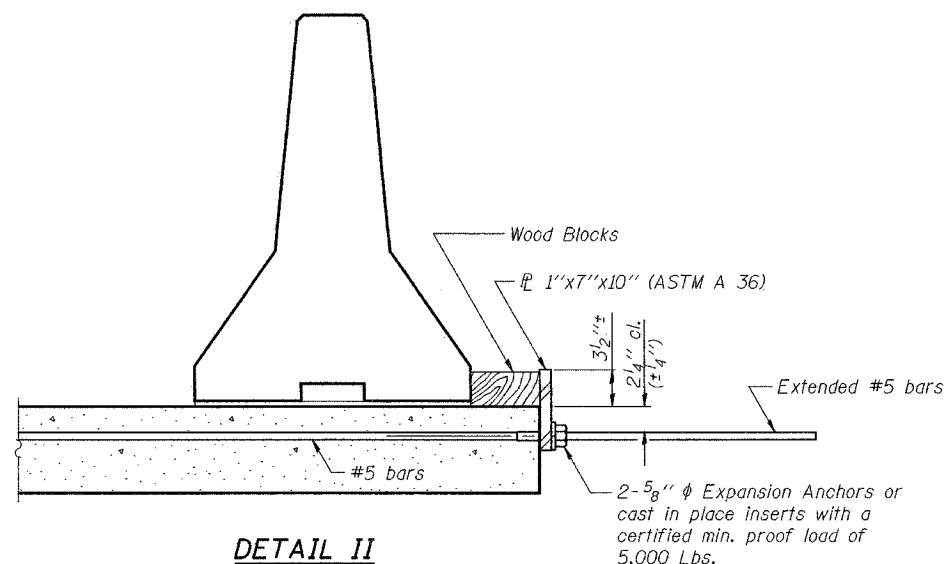


SECTIONS THRU SLAB



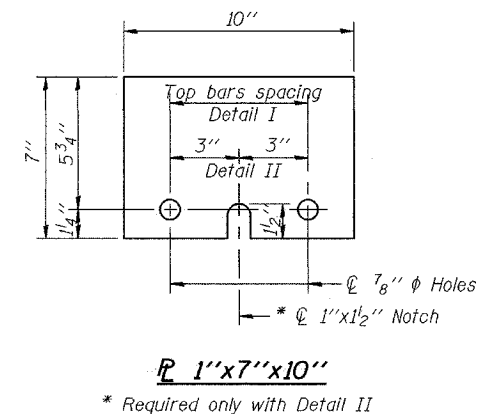
DETAIL I

The 1" x 7" x 10" Plate shall not be removed until
Stage II Construction forms and reinforcement bars
are in place.



DETAIL II

The 1" x 7" x 10" Plate shall not be removed until
Stage II Construction forms and all reinforcement
bars are in place and the concrete is ready to be
placed.



DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

April 22, 2005

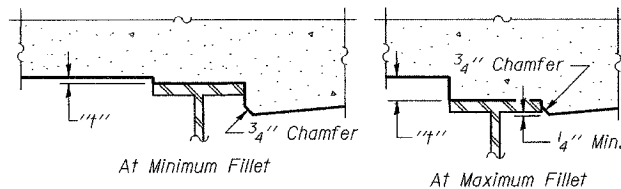
EXAMINED *Thomas J. Demagalaki*
ENGINEER OF BRIDGE DESIGN

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

R-27 10-22-04

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



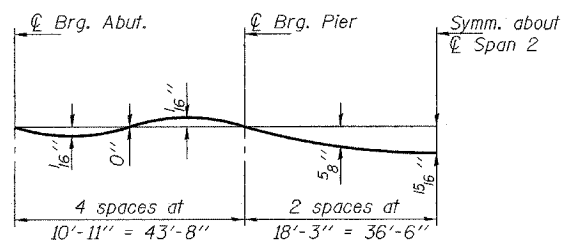
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON		30
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
20 SHEETS

Contract #76386

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 sheet 6 of 20, minus slab thickness, equals the fillet heights "t" above top flange of Beams.

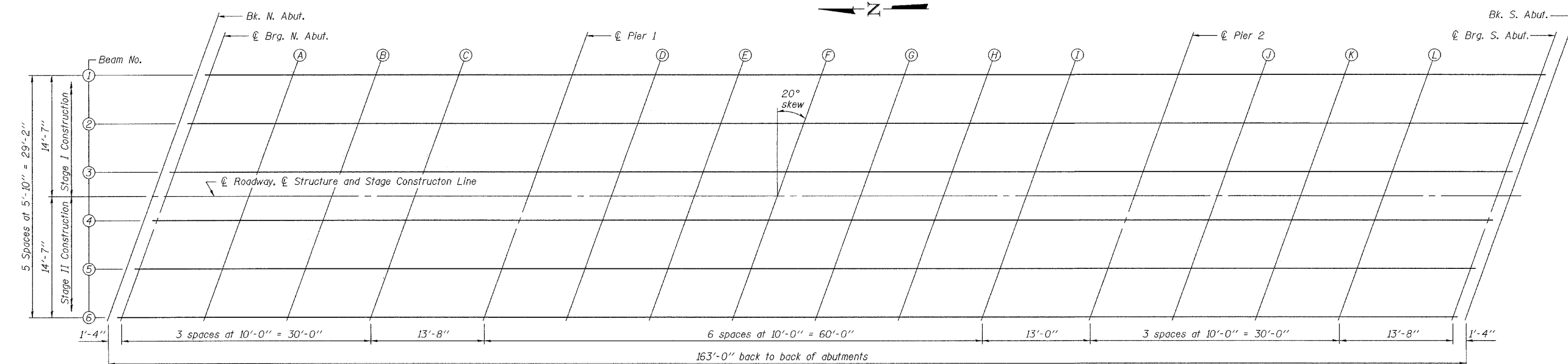
FILLET HEIGHTS



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 sheet 6 of 20.



PLAN

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

APR 22 2005

EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN

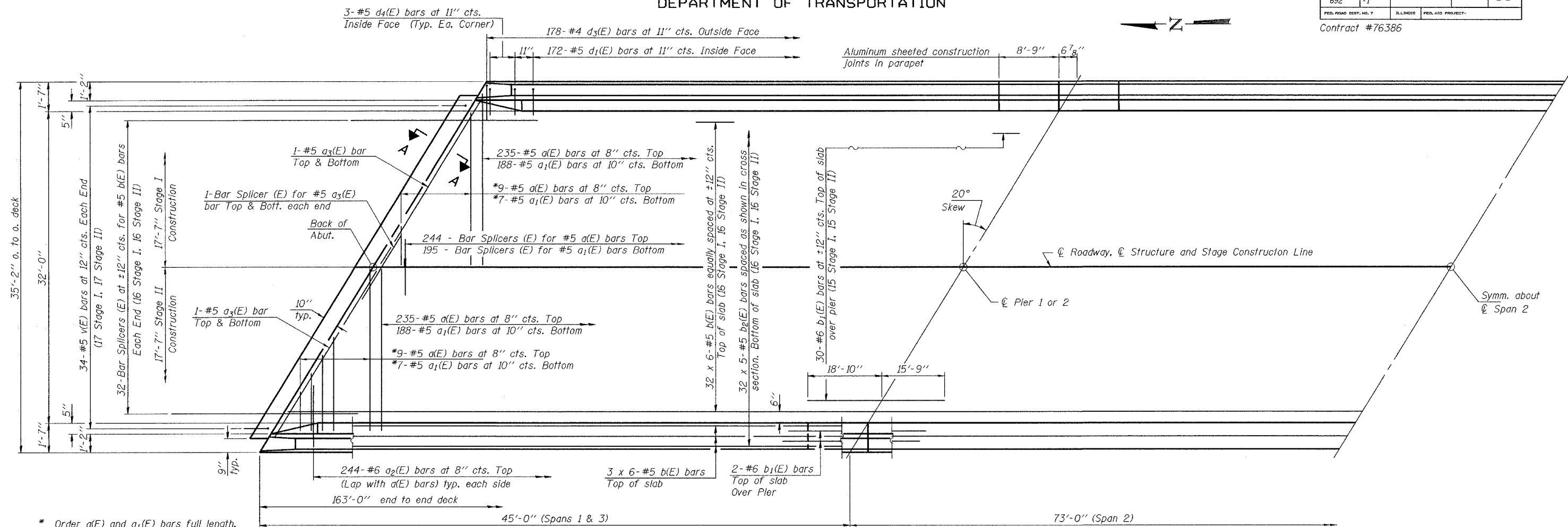
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

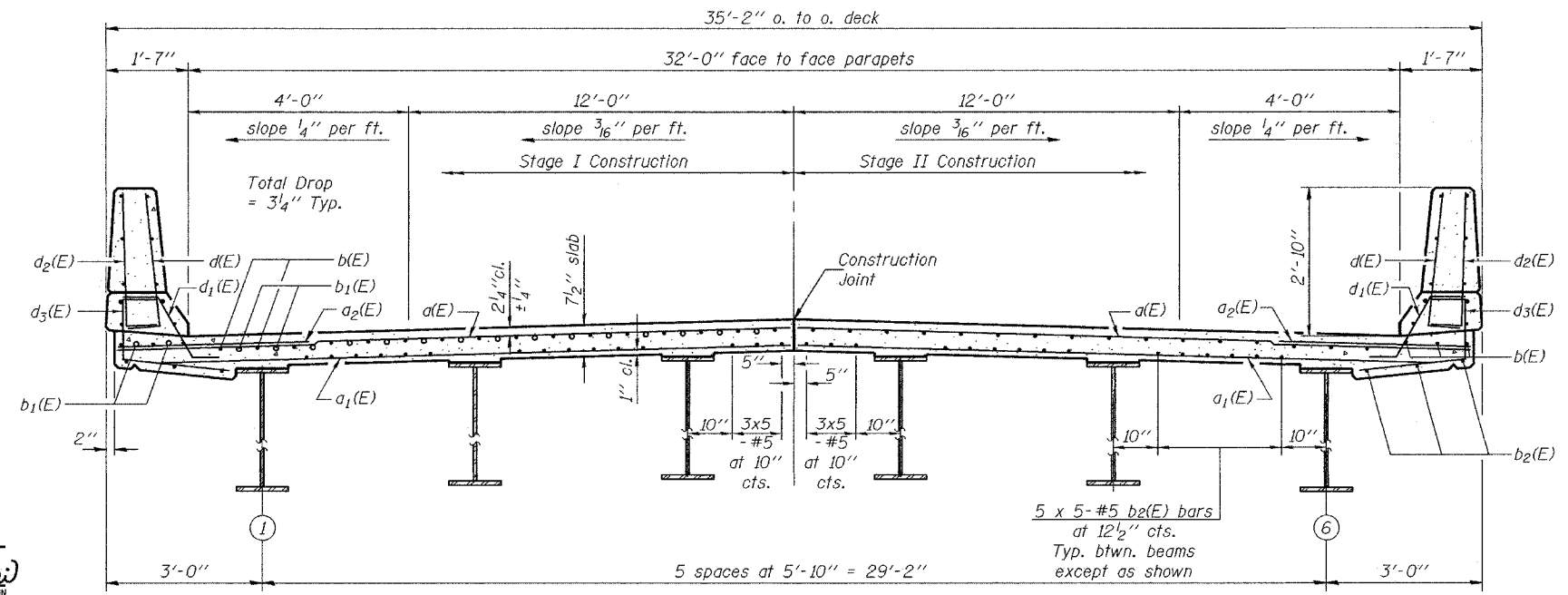
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	32	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract #76386



HALF PLAN

* Order a(E) and a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.



CROSS SECTION
(Looking South)

Notes:
See Sheet 8 of 20 for superstructure details, parapet reinforcement and Bill of Materials.
For Section A-A and diaphragm details see sheet 9 of 20.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 32 x 6-#5 etc. indicates 32 lines of bars with 6 lengths per line.
See Sheet 17 of 20 for Bar Splicer Details.

MIN. BAR LAPS
#5 bar = 2'-2"

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

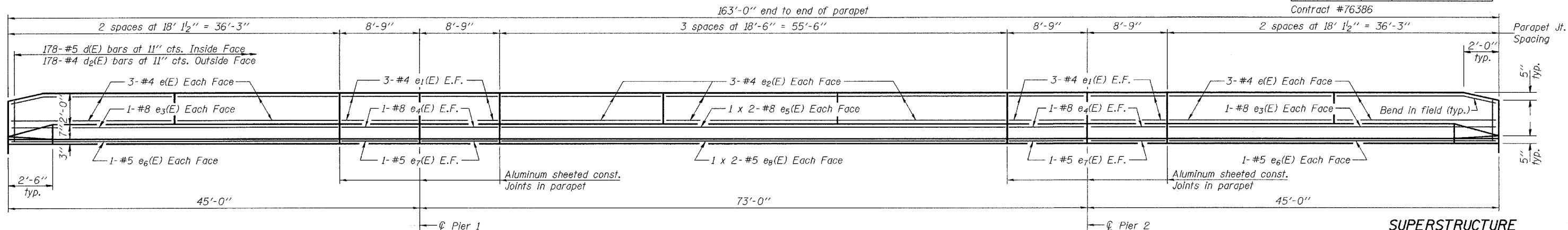
April 22, 2005
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF PUBLIC DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	33	8
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
20 SHEETS



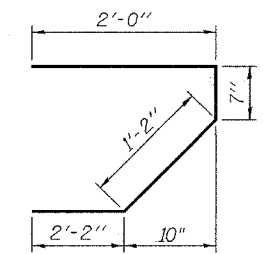
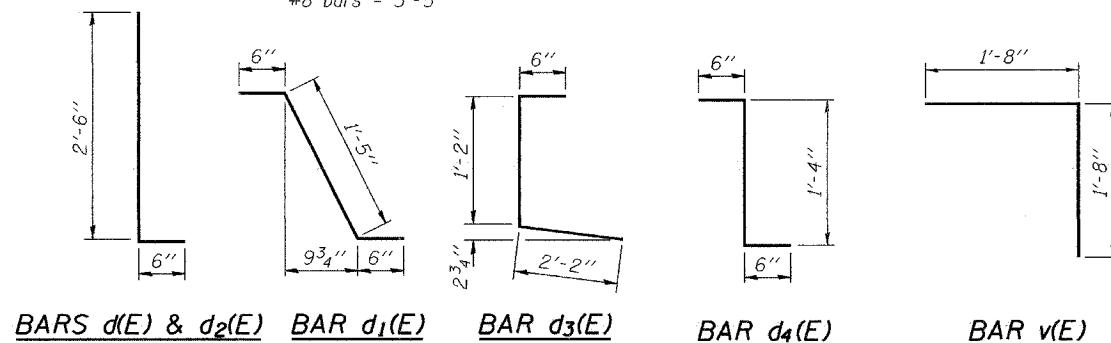
INSIDE ELEVATION OF PARAPET

SUPERSTRUCTURE
BILL OF MATERIAL

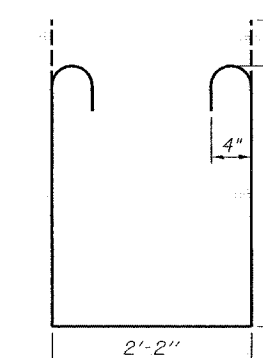
Bar	No.	Size	Length	Shape
d(E)	488	#5	17'-2"	—
d1(E)	390	#5	16'-3"	—
d2(E)	488	#6	6'-0"	—
d3(E)	8	#5	17'-11"	—
b(E)	228	#5	28'-11"	—
b1(E)	68	#6	34'-7"	—
b2(E)	160	#5	34'-3"	—
d(E)	356	#5	3'-0"	—
d1(E)	344	#5	2'-5"	—
d2(E)	356	#4	3'-0"	—
d3(E)	356	#4	3'-10"	—
d4(E)	12	#5	2'-2"	—
e(E)	48	#4	17'-10"	—
e1(E)	48	#4	8'-6"	—
e2(E)	36	#4	18'-3"	—
e3(E)	8	#8	36'-0"	—
e4(E)	16	#8	8'-6"	—
e5(E)	8	#8	29'-4"	—
e6(E)	8	#5	36'-0"	—
e7(E)	16	#5	8'-6"	—
e8(E)	8	#5	28'-6"	—
m(E)	8	#6	17'-8"	—
m1(E)	12	#6	18'-5"	—
m2(E)	24	#6	8'-10"	—
m3(E)	8	#6	5'-10"	—
m4(E)	8	#6	2'-10"	—
s(E)	72	#5	5'-11"	—
s1(E)	64	#4	8'-10"	—
v(E)	68	#5	3'-4"	—
Reinforcement Bars, Epoxy Coated		Pound		45400
Concrete Superstructure		Cu. Yds.		199.5

MIN. BAR LAPS

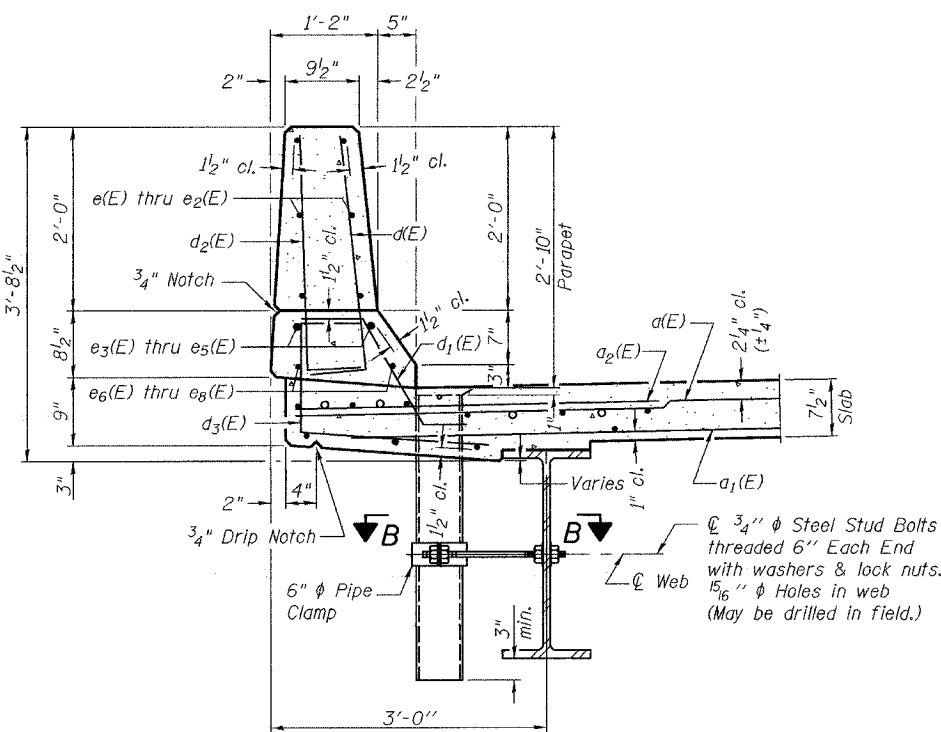
#5 bars = 1'-8"
#8 bars = 3'-5"



BAR s(E)

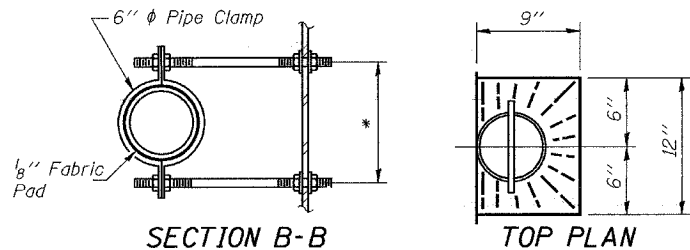


BAR s1(E)



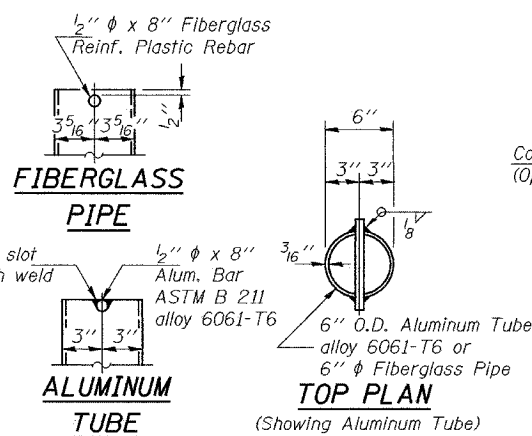
SECTION THRU PARAPET

* Dimension as required by Pipe Clamp



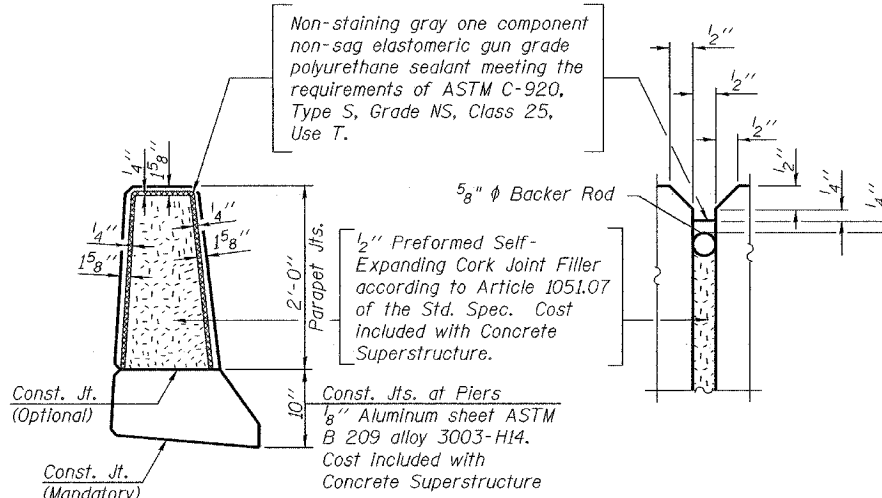
SECTION B-B

TOP PLAN



FIBERGLASS PIPE

ALUMINUM TUBE



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-SP1 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.

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

APPROVED	Apr 11 22, 2005
EXAMINED	Thomas J. Domagalaki
PASSED	Ralph E. Anderson

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2 - #5 etc. indicates 1 line of bars with 2 lengths per line.
SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

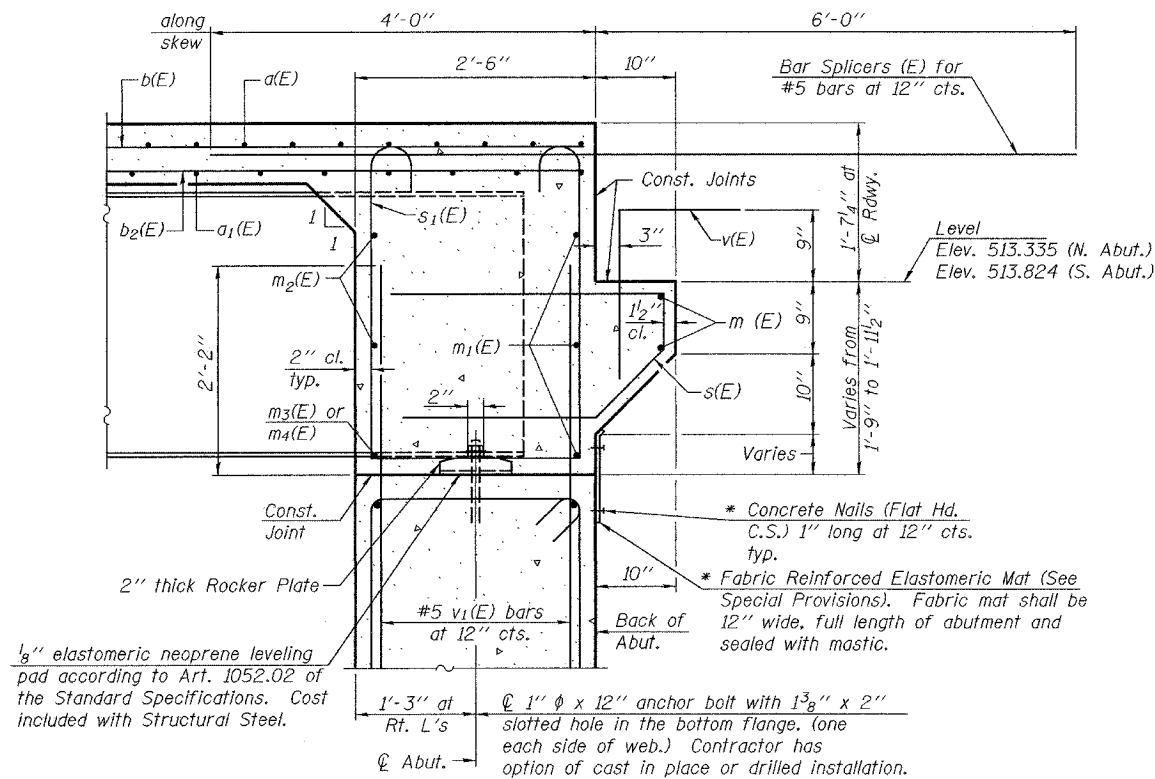
ROUTE NO.	SECTION	COUNTY	ISLAND SHEETS	SHEET NO.	SHEET NO. 9
F.A.P. 692	12-IBR-1	MADISON		34	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76386

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 20.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 20.
For details of bars s(E) & s₁(E) see sheet 8 of 20.
The s(E) and s₁(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
For anchor bolt details see sheet 13 of 20.
For Bar Splicer details see sheet 17 of 20.

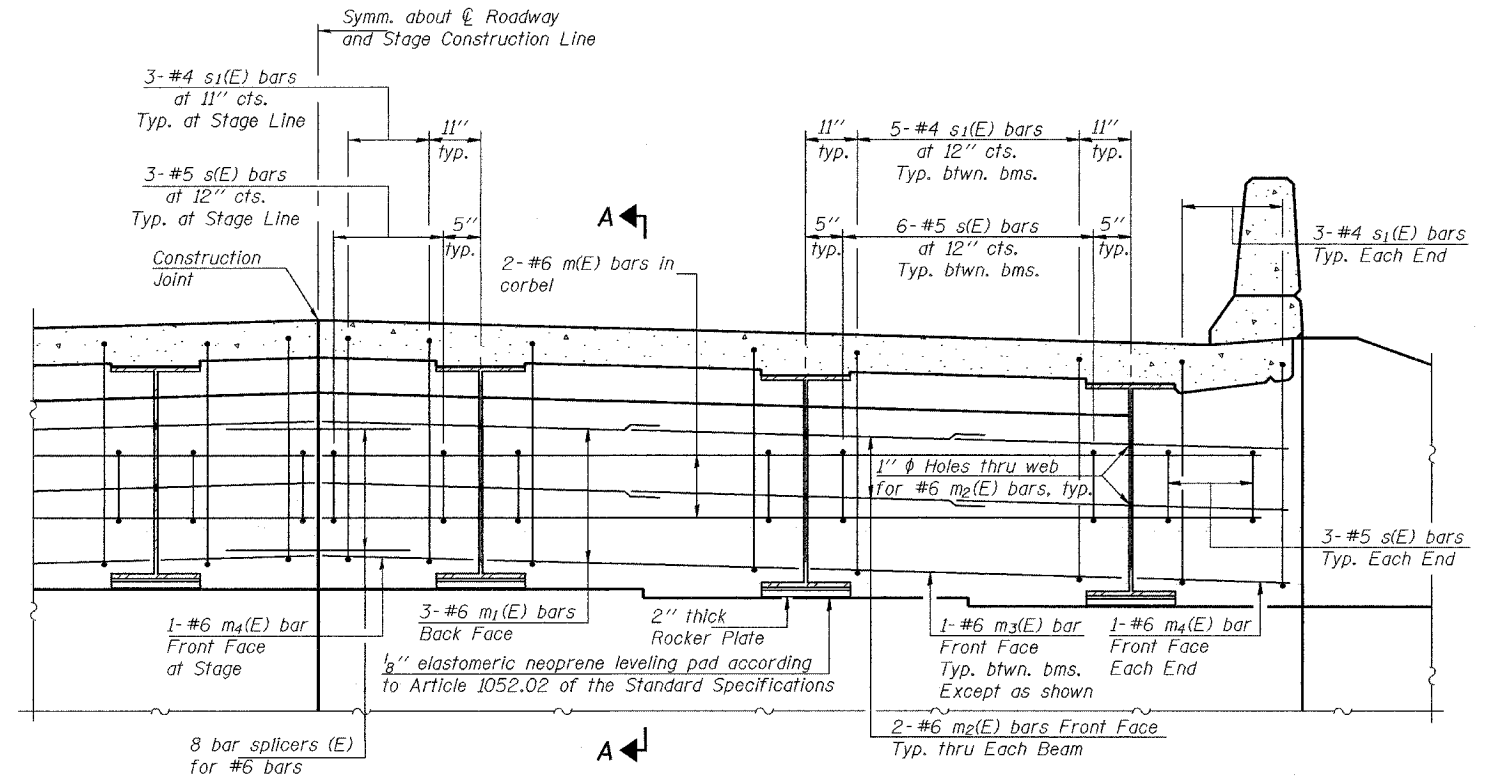
MIN. BAR LAP

#6 bar = 2'-7"



SECTION A-A

Dimensions at right angles to abutment, except as shown.
* Cost included with Concrete Superstructure.



DIAPHRAGM ELEVATION AT ABUTMENT

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

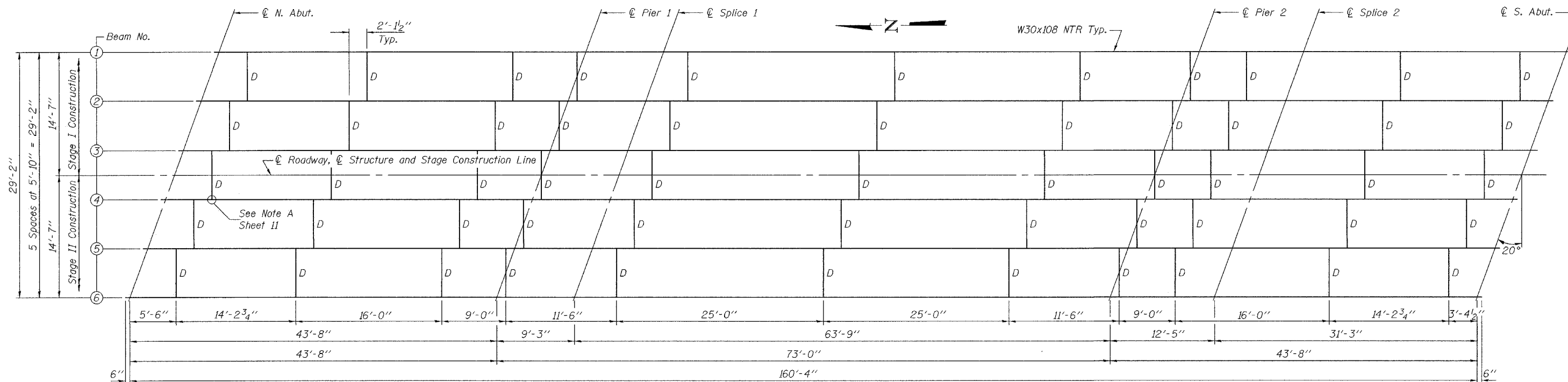
APR 12 2005
EXAMINED *Thomas J. Domagalaki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

DIAPHRAGM DETAILS
F.A.P. ROUTE 692 - SECTION 12-IBR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

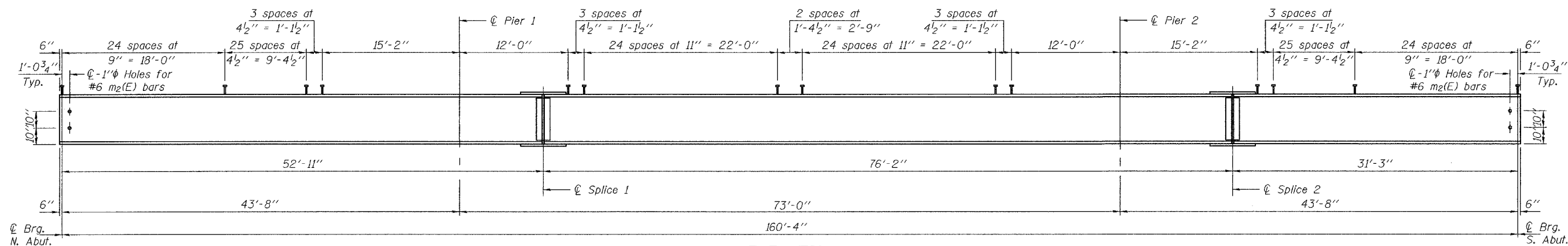
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	35	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		20 SHEETS

Contract #76386

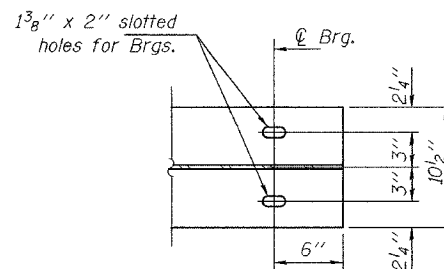


FRAMING PLAN

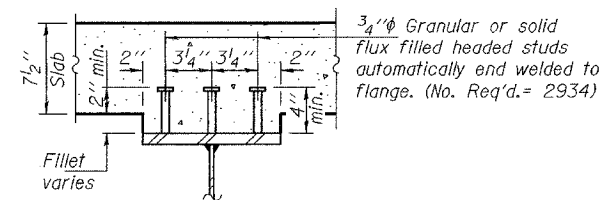


ELEVATION

All beams W30x108 and splice plates shall be AASHTO M 270, Grade 50 and shall meet Notch Toughness Requirements.



END OF BEAM DETAIL



SECTION A-A

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Sumner
CHECKED	TLK AMJ

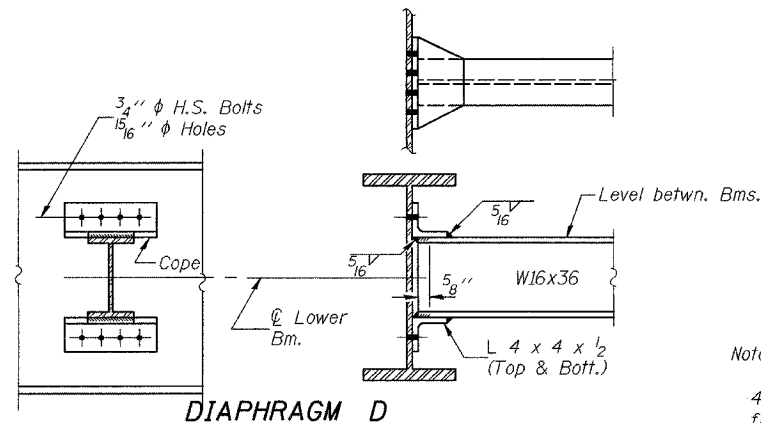
EXAMINED	Thomas J. Demagalaki	April 22, 2005
PASSED	Ralph E. Anderson	

STRUCTURAL STEEL
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

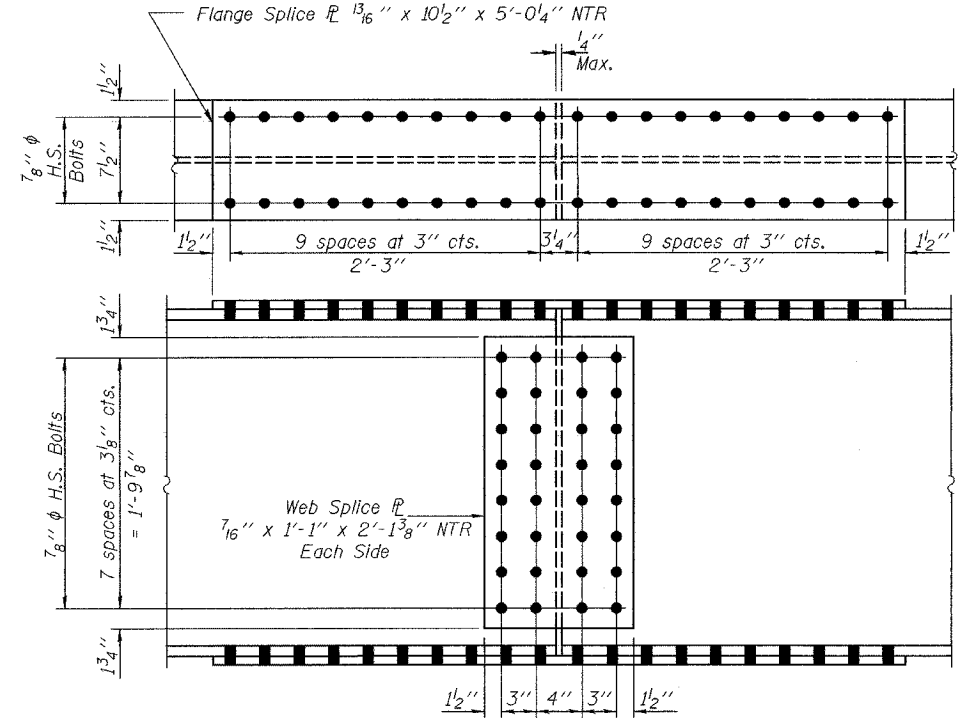
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
F.A.P. 692	12-1BR-1	MADISON		36	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76386



Note: Two hardened washers shall be required over all oversize holes for diaphragms.

Note A:
Use 1 3/16 inch x 1 1/2 inch slotted holes in top and bottom connection angles 4 x 4 x 1/2 at East side of Beam 4 only. Provide 5/16 inch plate washers for slotted holes. Bolts 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.



DETAIL OF SPLICE
"NTR" denotes members to which Notch Toughness Requirements are applicable.

		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
Is	(in ⁴)	4470	4470	4470
Ic (n)	(in ⁴)	12275	-	12275
Ic (3n)	(in ⁴)	8981	-	8981
Ss	(in ³)	299	299	299
Sc (n)	(in ³)	450	-	450
Sc (3n)	(in ³)	405	-	405
Z	(in ³)	-	346	-
DC1	(k/')	0.691	0.691	0.691
M DC1	(k)	51.6	266.3	193.9
DC2	(k/')	0.150	0.150	0.150
M DC2	(k)	16.6	44.2	55.8
DW	(k/')	0.292	0.292	0.292
M DW	(k)	32.5	85.9	108.6
M 1/4 Imp	(k)	388.7	320.9	617.4
Ma (Strength I)	(k)	814.2	1078.6	1555.4
Mr	(k)	2360.6	1441.7	2360.6
fs DC1	(ksi)	2.1	10.7	7.8
fs DC2	(ksi)	0.5	1.8	1.7
fs DW	(ksi)	1.0	3.4	3.2
fs 1.3(1/4+I)	(ksi)	13.5	16.7	21.4
fs (Ser II)	(ksi)	17.1	32.6	34.1
Vsr	(k)	21.1	-	16.7

		Abutment	Pier
R DC1	(k)	9.0	46.4
R DC2	(k)	2.3	9.8
R DW	(k)	4.4	19.0
R 1/4	(k)	48.0	80.0
R Imp	(k)	12.8	16.1
R Total	(k)	76.5	171.3

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs due to non-composite loads.
Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing fs due to short-term composite loads.
Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing fs due to long-term composite loads.
Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
DC1 is the dead load acting on the non-composite section.
DC2 is the dead load acting on the long-term composite section.
DW is the dead load acting on the long-term composite section due to wearing surface.
Ma (Strength I) = 1.25 M(DC1+DC2) + 1.5 M DW + 1.75 M(1/4+Imp)
Mr is the full plastic moment capacity computed in accordance with 6.10.3.1.3 and 6.10.4.2.2.
fs (Service II) is the sum of the stresses due to DC1+DC2+DW+1.3(1/4+Imp)
Vsr is the maximum shear range in the span (0.75 1/4 + Imp)

TOP OF BEAM ELEVATIONS
For Fabrication Only

Location	℄ Brg. N. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Brg. S. Abut.
Beam #1	514.068	514.143	514.159	514.346	514.383	514.549
Beam #2	514.166	514.242	514.258	514.445	514.481	514.647
Beam #3	514.251	514.326	514.342	514.529	514.566	514.732
Beam #4	514.244	514.320	514.336	514.523	514.559	514.725
Beam #5	514.147	514.222	514.238	514.425	514.462	514.628
Beam #6	514.036	514.112	514.128	514.315	514.351	514.517

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

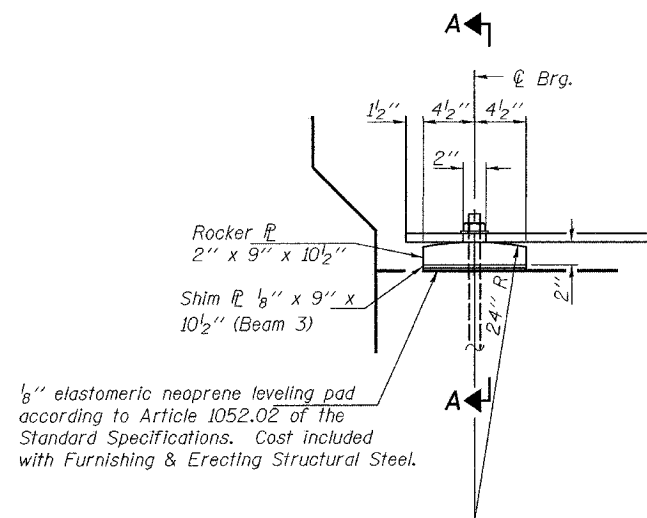
APR 22, 2005
EXAMINED *Thomas J. Damagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL DETAILS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

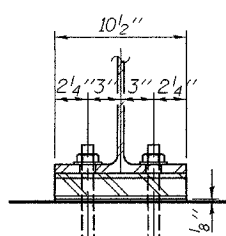
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 12
F.A.P. 692	12-1BR-1	MADISON		37	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #76386



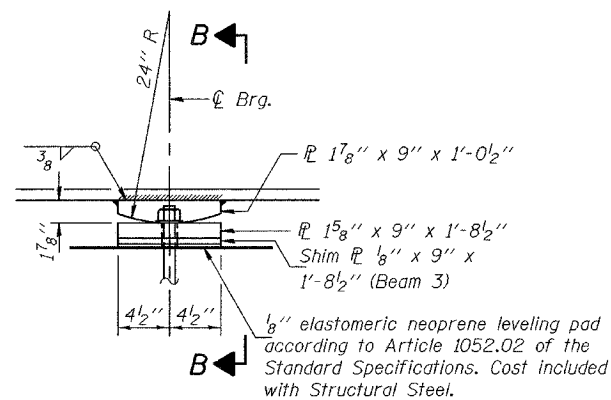
ELEVATION AT ABUTMENT

FIXED BEARING
12 Required



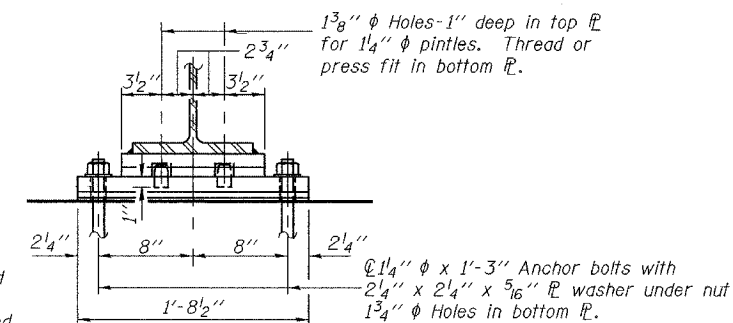
1" ϕ x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16" ϕ washer under nut. 1 3/8" x 2" slotted holes in bottom flange. The Contractor has the option of cast in place, or drilled construction.

SECTION A-A

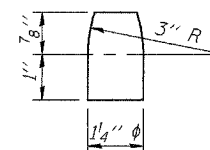


ELEVATION AT PIER

FIXED BEARING
12 Required



SECTION B-B



PINTLE

Notes:
The plates and pintles of the fixed bearings shall be AASHTO M 270 Grade 50, except shim plates.
For Anchor Bolt installation details, see sheet 13 of 20.
Anchor bolts at fixed bearings may be built into the masonry.

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

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

BEARING DETAILS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

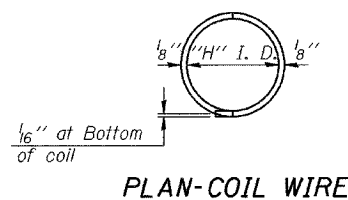
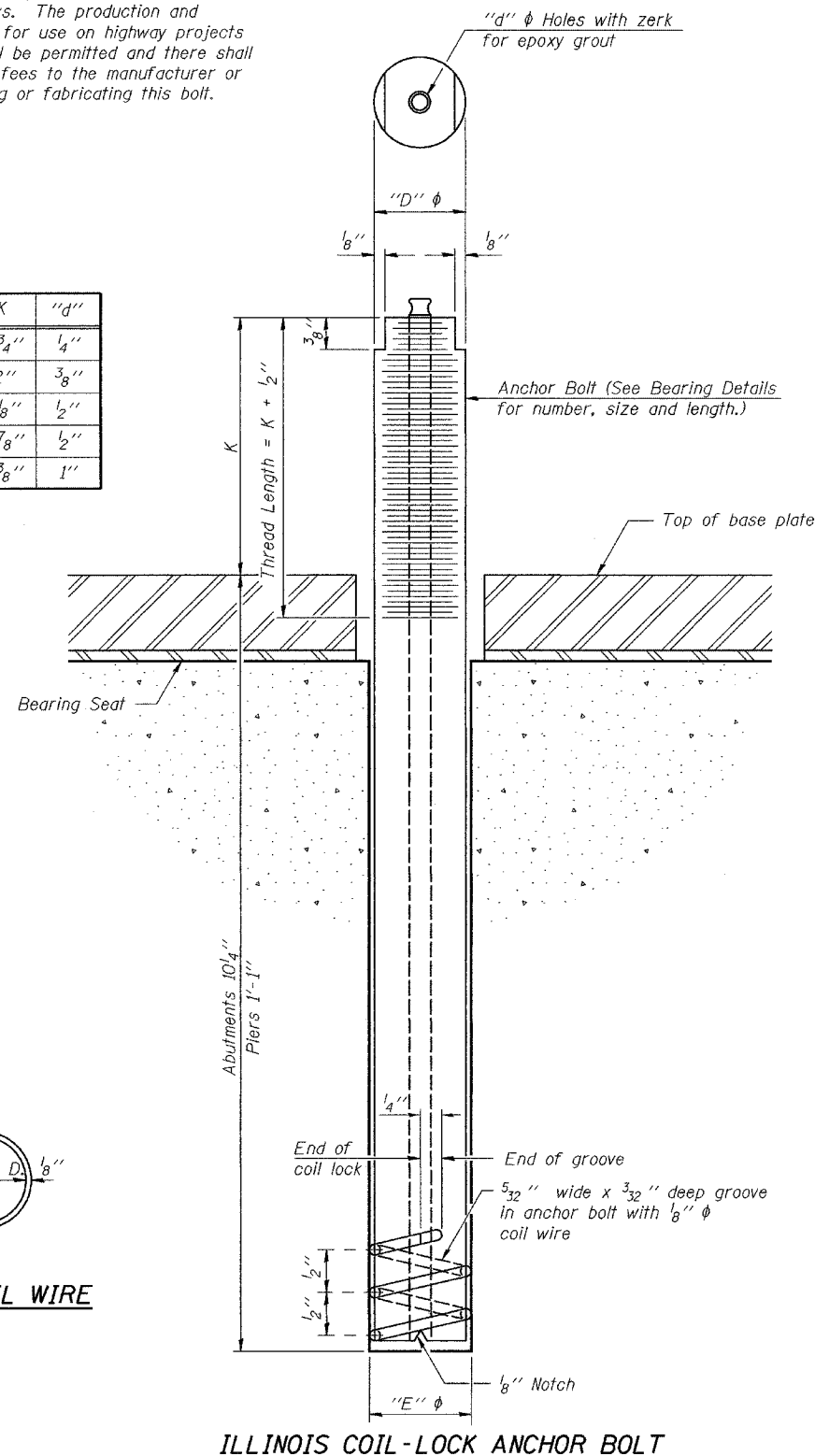
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 692	12-IBR -1	MADISON	38	20 SHEETS
FED. ROAD DIST. NO. 7	BLINDS	FED. AID PROJECT		

Contract #76386

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/6"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire. The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

- The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abuts.	A307
Piers	A325

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming. The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

April 22, 2005
EXAMINED *Thomas J. Demagaleki*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

ABB-1 10-22-04

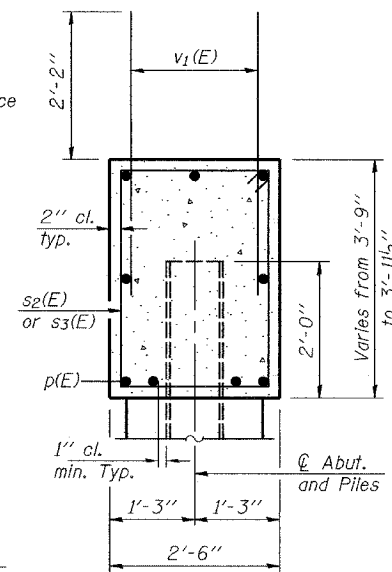
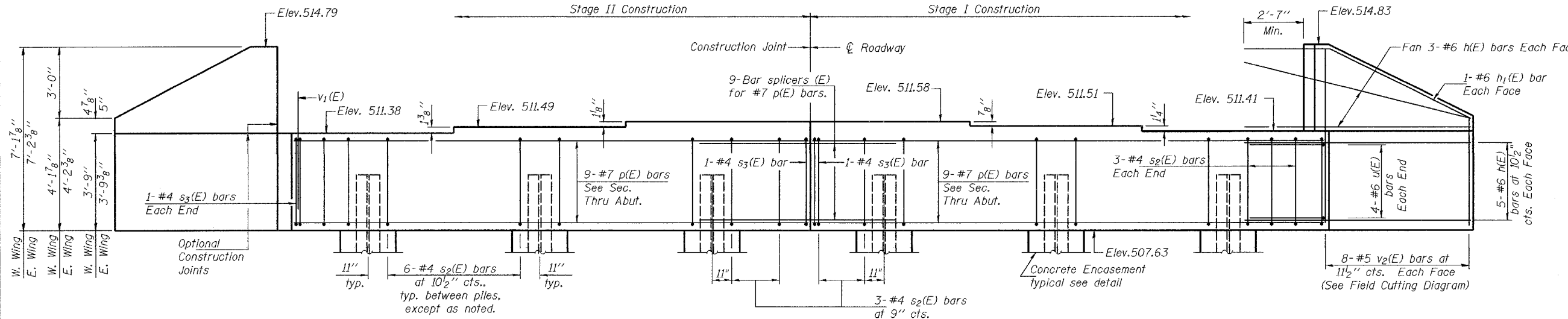
**ANCHOR BOLT DETAILS
FOR BEARINGS
F.A.P. ROUTE 692 - SECTION 12-IBR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	39	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		20 SHEETS

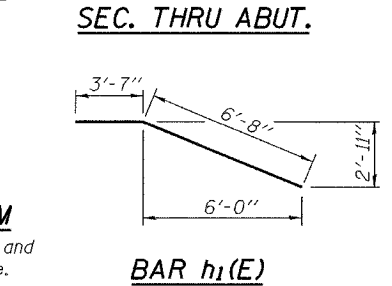
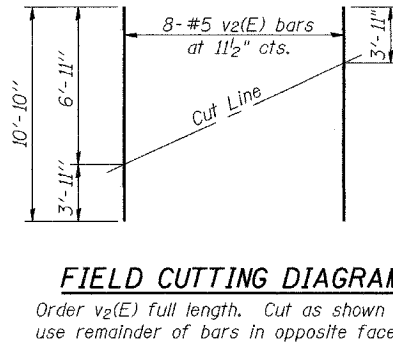
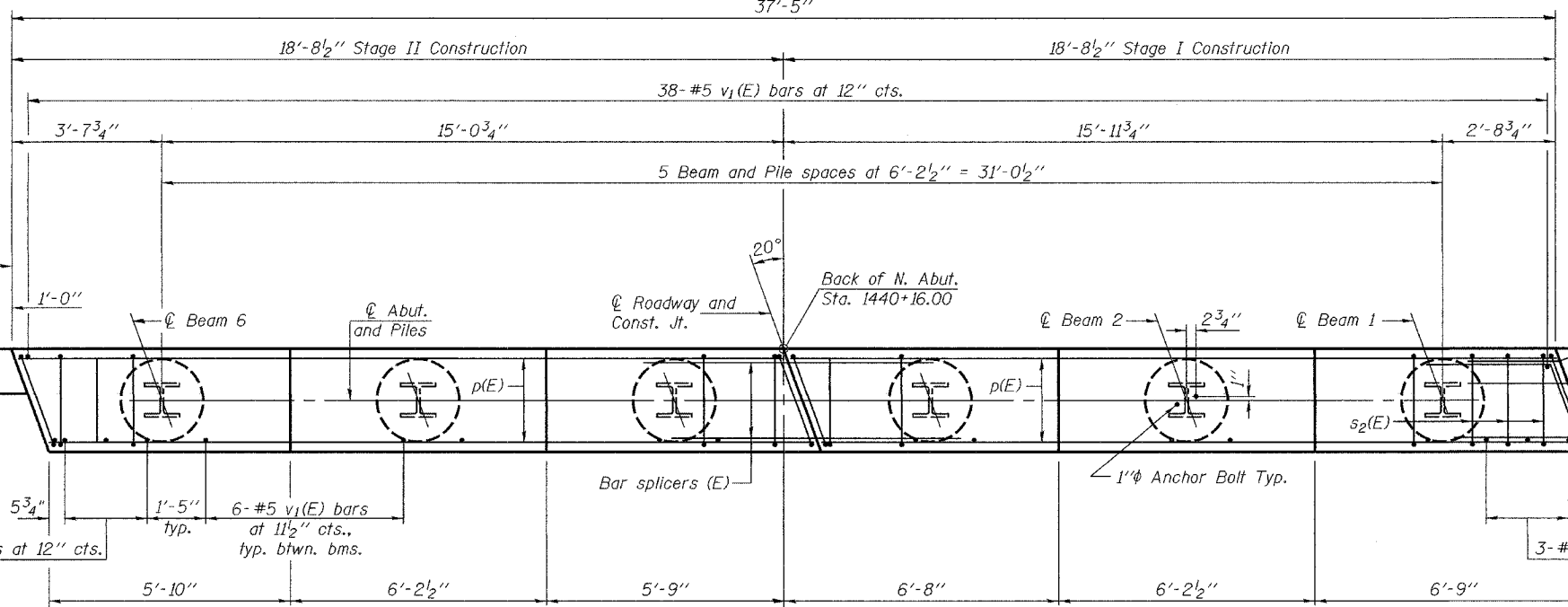
Contract #76386

Notes: Pour steps monolithically with cap.
Reinforcement bars designated (E)
shall be epoxy coated.
Space Reinforcement in cap to miss anchor bolts.
For Anchor Bolt installation details see sheet 13 of 20.
For Bar Splicer details see sheet 17 of 20.



PILE DATA

Type: HP14x89
Nominal Design Capacity: 125 Tons
Nominal Required Bearing: 705 Tons (Refusal)
Est. Length: 33'
No. Required: 5 + 1 test pile

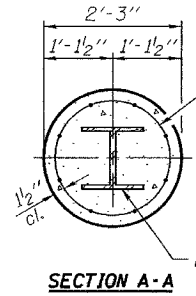


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#6	9'-10"	—
h ₁ (E)	4	#6	10'-3"	—
p(E)	18	#7	18'-5"	—
s ₂ (E)	36	#4	11'-11"	□
s ₃ (E)	4	#4	12'-2"	□
u(E)	8	#6	7'-4"	∩
v ₁ (E)	74	#5	4'-4"	—
v ₂ (E)	16	#5	10'-10"	—
Concrete Structures		Cu. Yd.	16.4	
Reinforcement Bars, Epoxy Coated		Pound	2130	
Structure Excavation		Cu. Yd.	40.2	
Furnishing Steel Piles HP 14x89		Foot	165	
Driving Steel Piles		Foot	165	
Test Pile Steel HP14x89		Each	1	

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

APPROVED
Apr 11 22, 2005
EXAMINED *Thomas J. Damagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



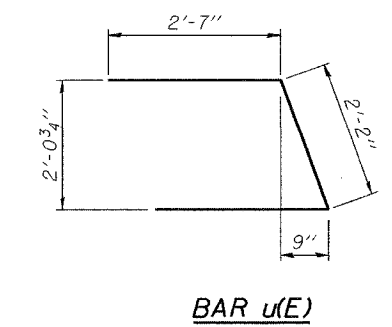
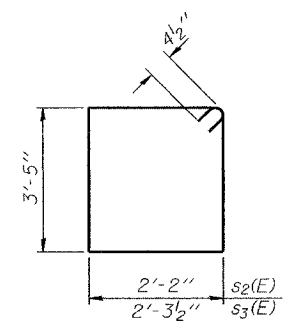
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.

Concrete Encasement

3'-0"

2'-0"

10"



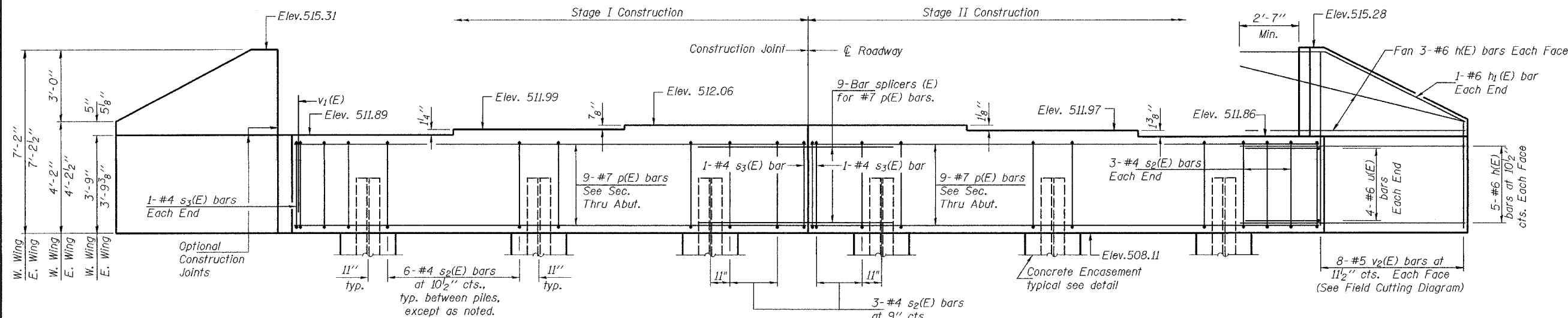
NORTH ABUTMENT
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

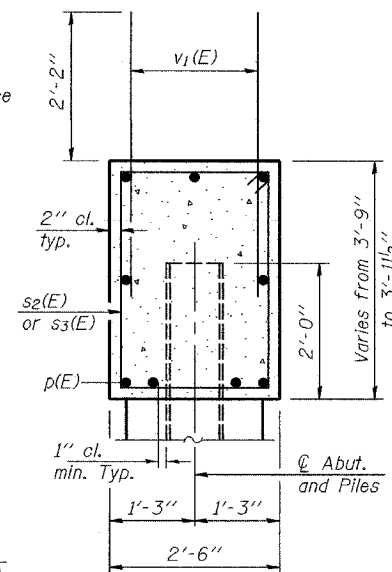
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	40	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		20 SHEETS

Contract #76386

Notes: Pour steps monolithically with cap.
Reinforcement bars designated (E)
shall be epoxy coated.
Space Reinforcement in cap to miss anchor bolts.
For Anchor Bolt installation details see sheet 13 of 20.
For Bar Splicer details see sheet 17 of 20.



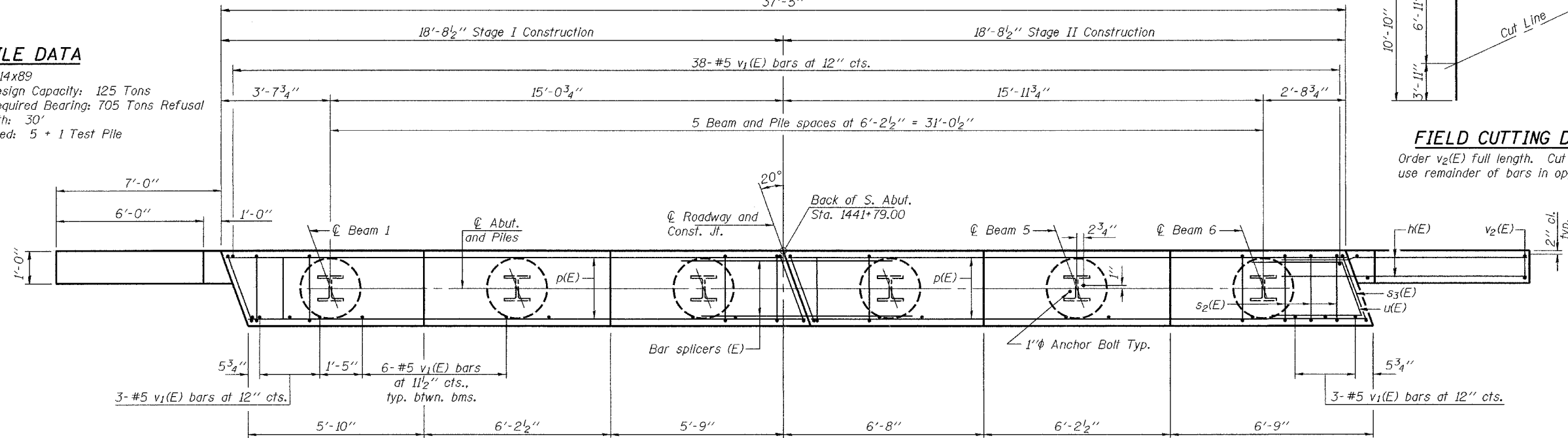
ELEVATION
(Looking South)



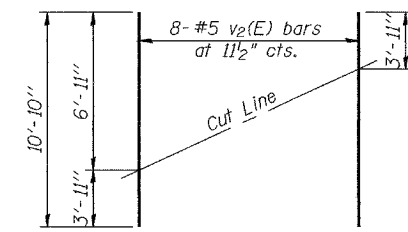
SEC. THRU ABUT.

PILE DATA

Type: HP14x89
Nominal Design Capacity: 125 Tons
Nominal Required Bearing: 705 Tons Refusal
Est. Length: 30'
No. Required: 5 + 1 Test Pile

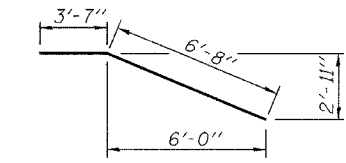


PLAN



FIELD CUTTING DIAGRAM

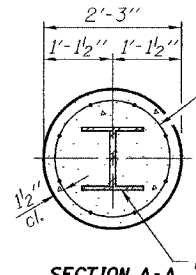
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



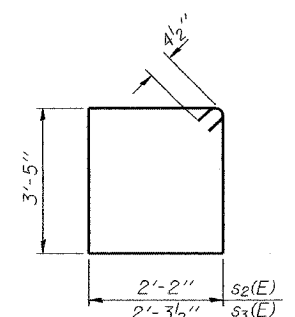
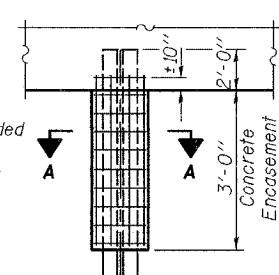
BAR h1(E)

BILL OF MATERIAL

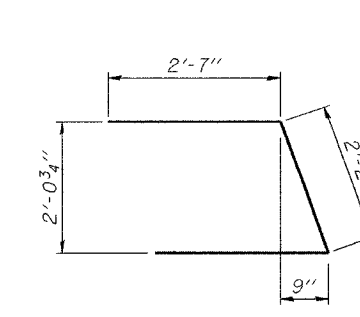
Bar	No.	Size	Length	Shape
h(E)	32	#6	9'-10"	
h1(E)	4	#6	10'-3"	
p(E)	18	#7	18'-5"	
s2(E)	36	#4	11'-11"	□
s3(E)	4	#4	12'-2"	□
u(E)	8	#6	7'-4"	
v1(E)	74	#5	4'-4"	
v2(E)	16	#5	10'-10"	
Concrete Structures		Cu. Yd.	16.4	
Reinforcement Bars, Epoxy Coated		Pound	2130	
Structure Excavation		Cu. Yd.	40.2	
Furnishing Steel Piles HP 14x89		Foot	150	
Driving Steel Piles		Foot	150	
Test Pile Steel HP14x89		Each	1	



PILE ENCASEMENT DETAIL



BARS s2(E) & s3(E)



BAR u(E)

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

EXAMINED	Thomas J. Domagalaki	200
PASSED	Ralph E. Anderson	

SOUTH ABUTMENT
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

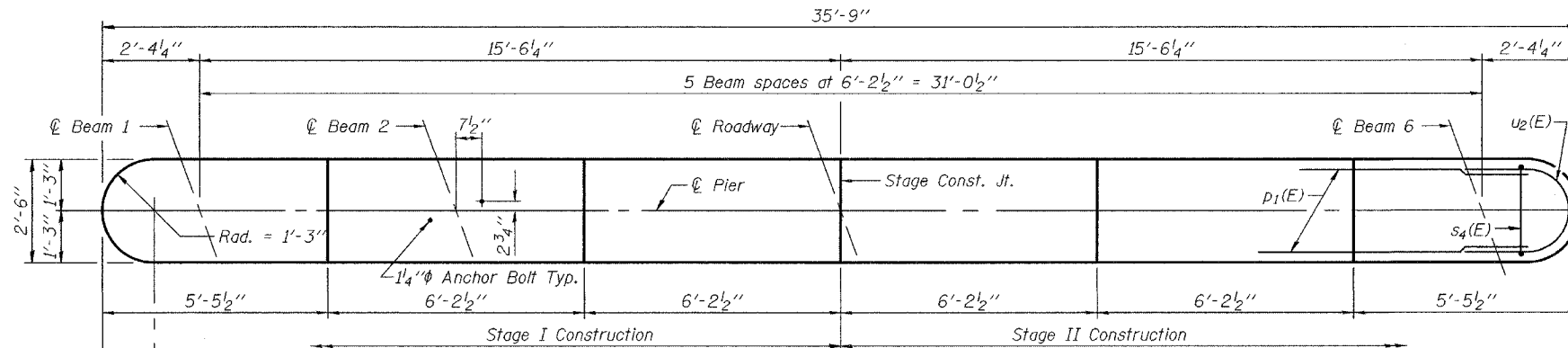
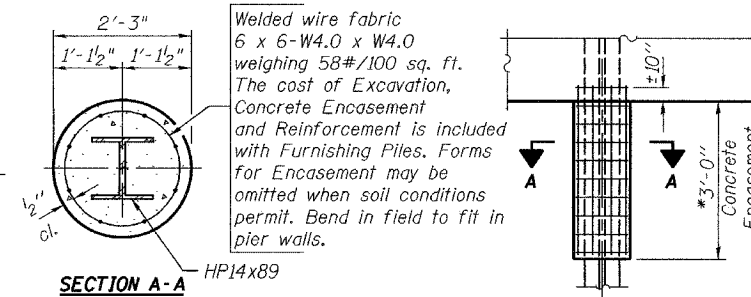
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 692	12-IBR-1	MADISON	41	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		20 SHEETS

Notes: Pour steps monolithically with cap.
Space Reinforcement in cap to miss anchor bolts.
For Anchor Bolt installation details see sheet 13 of 20.
For Bar Splicer details see sheet 17 of 20.

Contract #76386

PILE DATA

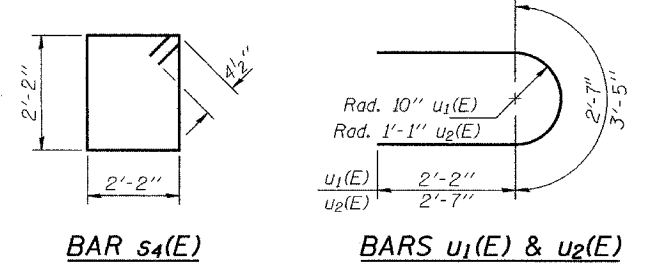
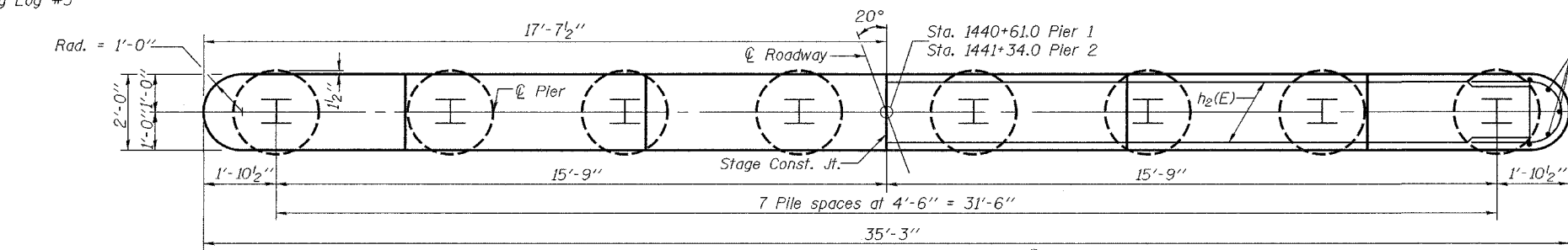
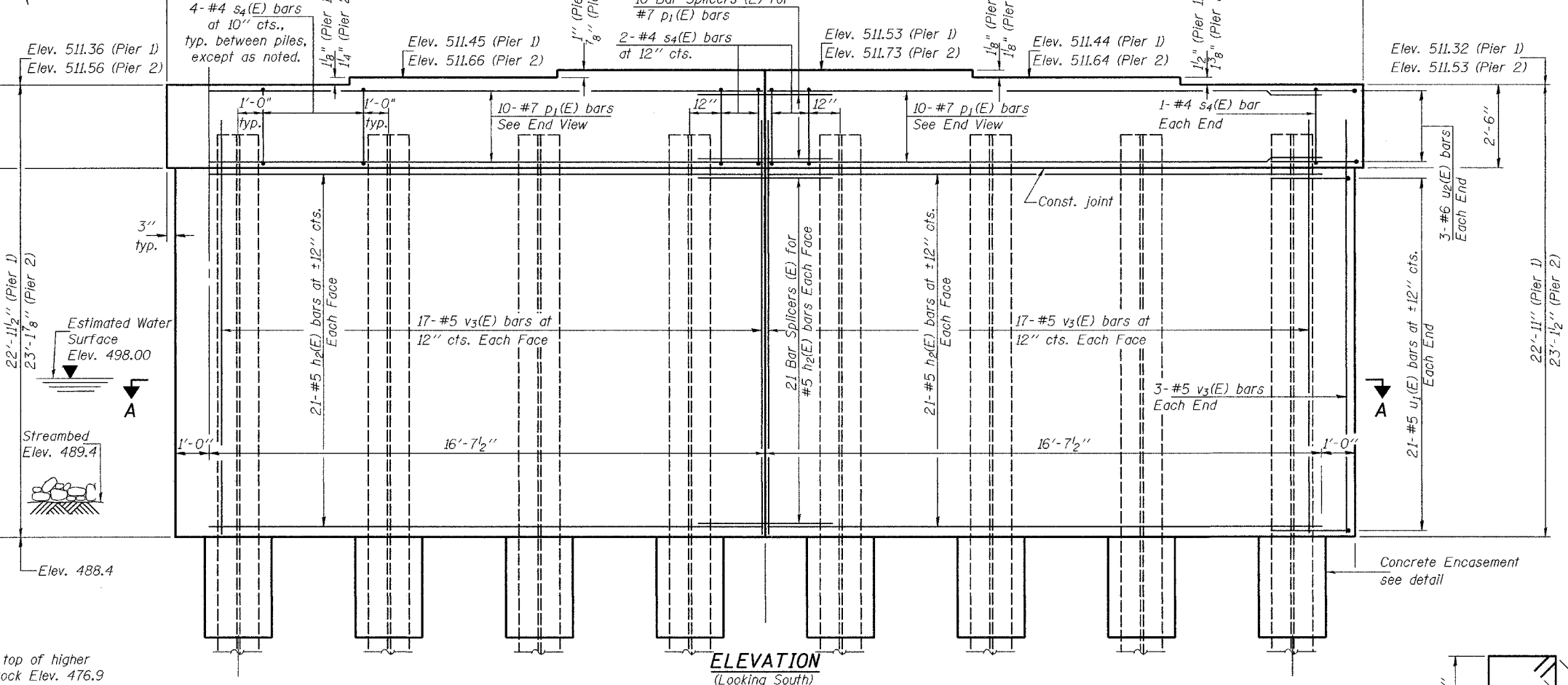
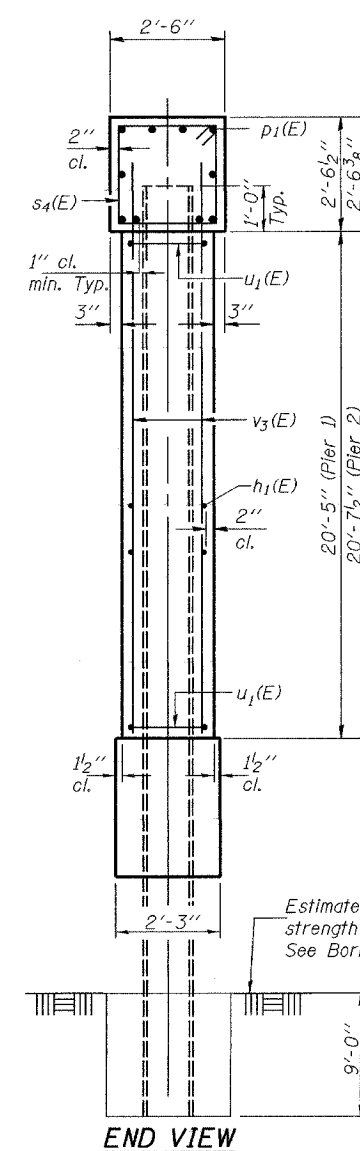
Type: HP14x89
Nominal Design Capacity: 190 Tons
Nominal Required Bearing: Set into Rock
Est. Length: 47'
No. Req'd: 16



**PIERS 1 & 2
BILL OF MATERIAL**

Bar No.	Size	Length	Shape
h ₂ (E)	168 #5	16'-6"	—
p ₁ (E)	40 #7	16'-6"	—
s ₄ (E)	60 #4	9'-5"	□
u ₁ (E)	84 #5	6'-11"	U
u ₂ (E)	12 #6	8'-7"	U
v ₃ (E)	148 #5	21'-9"	—
Concrete Structures			Cu. Yd. 157.1
Reinforcement Bars, Epoxy Coated			Pound 8740
Structure Excavation			Cu. Yd. 20.2
Furnishing Steel Piles HP 14x89			Foot 752
Underwater Structure Excavation Protection Location 1			Each 1
Underwater Structure Excavation Protection Location 2			Each 1
Setting Piles in Rock			Each 16

Reinforcement Bars designated (E) shall be epoxy coated.



**PIERS 1 & 2
F.A.P. ROUTE 692 - SECTION 12-IBR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335**

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

April 22, 2005
EXAMINED *Thomas J. Domagalaki*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

SECTION A-A

*Forms shall be placed below Elevation 488.4 after excavation for Pier walls. Reinforcement and Concrete Encasement shall be poured underwater into forms. The cost of Concrete Encasement, Reinforcement, form excavation and furnishing and placing forms is included with Furnishing Piles. If a portion of the pier wall is under water, concrete shall be trimmed under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be trimmed to an Elevation 1'-0" above the water level at the time of Construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 17
F.A.P. 692	12-IBR -1	MADISON		42	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #76386

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 = $1.25 \times f_{s_{allow}} \times A_t$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.

$f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

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

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

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

ROLLED THREAD DOWEL BAR



** ONE PIECE

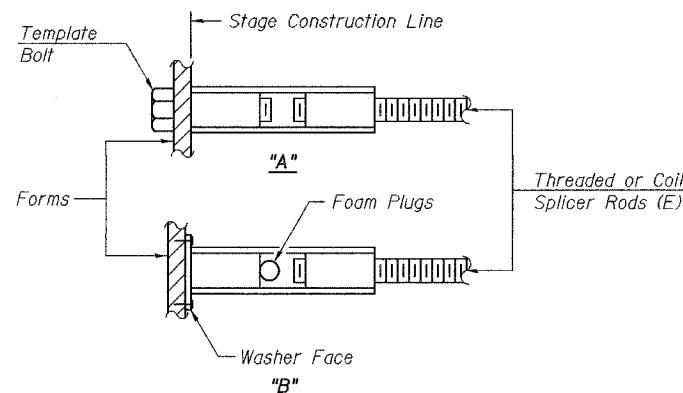
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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

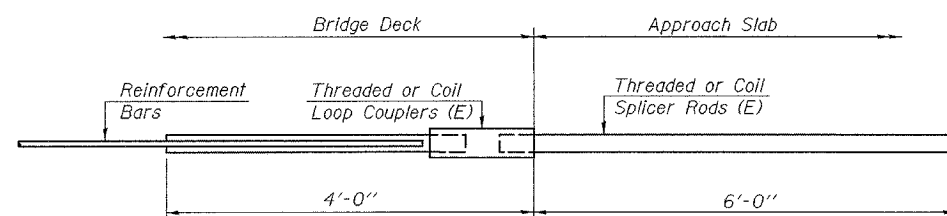


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

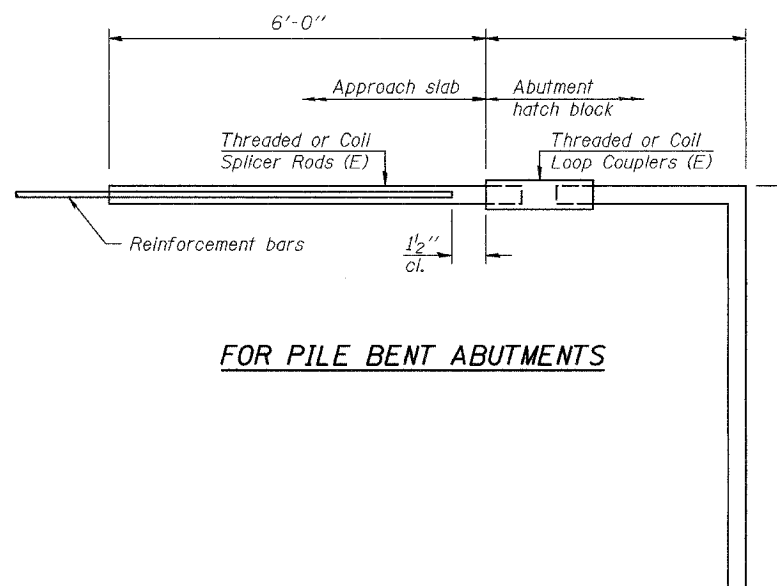
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



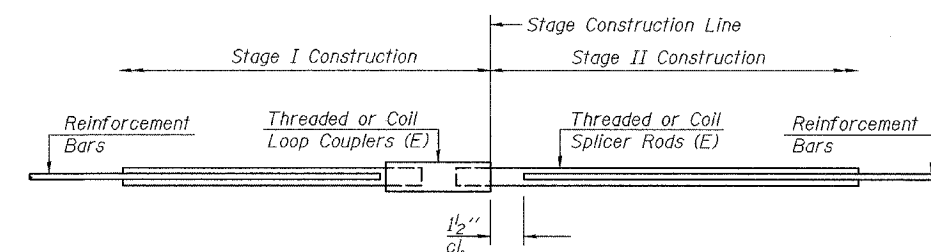
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 64



FOR PILE BENT ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	443	Slab
#6	16	Diaphragms
#7	18	Abutments
#5	84	Piers
#7	20	Piers

BAR SPLICER ASSEMBLY DETAILS
F.A.P. ROUTE 692 - SECTION 12-IBR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

DESIGNED	T. Kurtenbach
CHECKED	Alan Johnson
DRAWN	Paul Summer
CHECKED	TLK AMJ

EXAMINED	Thomas J. Domagalaki	April 22, 2005
PASSED	Ralph E. Anderson	

BSD-1

10-22-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District Eight Materials

SOIL BORING LOG

Page 1 of 1
Date 5/14/73

ROUTE FAP 692 DESCRIPTION IL 160 over East Fork Silver Creek LOGGED BY J. King C. Hoffmann

SECTION 12-1BR-1 LOCATION NE 14, SW 14, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

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

STRUCT. NO. 060-0331 SURFACE WATER Elev. _____ ft
Station 1440+97.5 Stream Bed Elev. 489.0 ft

BORING NO. 1 GROUND WATER Elev.: _____ ft
Station 1440+08 First Encounter 493.8 ft
Offset 18.02 ft LL Upon Completion _____ ft
Ground Surface Elev. 510.5 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
3	Brown Silty CLAY				3	Gray Sandy SILT			
7					4	Gray Clayey SILT			
12					2	Gray Sandy Clayey SILT			
17					3	Gray Fine SAND			
14	Brown and Gray Silty CLAY				100+	Brown and Gray Medium GRAVEL			
12					100+	Gray Laminated SHALE (Hard)			
21	Gray Silty CLAY				100+				
3	Gray Clayey SILT				100+				
					14				

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

Illinois Department of Transportation
Division of Highways
District Eight Materials

ROCK BORING LOG

Page 1 of 2
Date 5/14/73

ROUTE FAP 692 DESCRIPTION IL 160 over East Fork Silver Creek LOGGED BY J. King C. Hoffmann

SECTION 12-1BR-1 LOCATION NE 14, SW 14, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison CORING METHOD _____

STRUCT. NO. 060-0331 CORING BARREL TYPE & SIZE _____
Station 1440+97.5

BORING NO. 1 Core Diameter _____ in
Station 1440+08 Top of Rock Elev. _____ ft
Offset 18.02 ft LL Begin Core Elev. _____ ft
Ground Surface Elev. 510.5 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
3	Brown Silty CLAY				3	Gray Sandy SILT			
4					4	Gray Clayey SILT			
2					2	Gray Sandy Clayey SILT			
3					3	Gray Fine SAND			
10	Brown and Gray Silty CLAY				100+	Brown and Gray Medium GRAVEL			
10					100+	Gray Laminated SHALE (Hard)			
15					15				
12	Gray Silty CLAY				14				
3	Gray Clayey SILT								

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District Eight Materials

ROCK BORING LOG

Page 2 of 2
Date 5/14/73

ROUTE FAP 692 DESCRIPTION IL 160 over East Fork Silver Creek LOGGED BY J. King C. Hoffmann

SECTION 12-1BR-1 LOCATION NE 14, SW 14, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison CORING METHOD _____

STRUCT. NO. 060-0331 CORING BARREL TYPE & SIZE _____
Station 1440+97.5

BORING NO. 1 Core Diameter _____ in
Station 1440+08 Top of Rock Elev. _____ ft
Offset 18.02 ft LL Begin Core Elev. _____ ft
Ground Surface Elev. 510.5 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)
	Gray Sandy SILT								
	Gray Clayey SILT								
	Gray Sandy Clayey SILT								
	Gray Fine SAND								
	Brown and Gray Medium GRAVEL								
	Gray Laminated SHALE (Hard)								
	End of Boring								

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

BORING LOGS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.
F.A.P. 692	12-1BR-1	MADISON	44
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT

SHEET NO. 19

20 SHEETS

Contract #76386

Illinois Department of Transportation
Division of Highways
District Eight Materials

SOIL BORING LOG

Page 1 of 1
Date 5/15/73

ROUTE FAP 692 DESCRIPTION IL 160 over East Fork Silver Creek LOGGED BY J. King C. Hoffmann

SECTION 12-1BR-1 LOCATION NE 14, SW 14, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

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

STRUCT. NO. 060-0331
Station 1440+97.5

BORING NO. 2
Station 1441+95
Offset 14,000 ft
Ground Surface Elev. 510.2 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMP. (°F)	PERCENTAGE (%)	REMARKS	DEPTH (ft)	SOIL TYPE	WATER	TEMP. (°F)	PERCENTAGE (%)	REMARKS
0	Brown Silty CLAY					11	Brown and Gray Clay TILL (continued)				
9	0.98 B			16		5	0.33 B			42	
12	Brown and Gray Silty CLAY					100+	Brown and Gray Laminated SHALE				12
14	0.65 B			20		100+	Gray Laminated SHALE				15
15	1.63 B			19		100+					12
9	1.30 B			27		100+					9
11	1.39 S			28		100+					14
13	2.08 S			22							

Surface Water Elev. _____ ft
Stream Bed Elev. 489.0 ft
Groundwater Elev.:
First Encounter 488.2 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

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)
BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District Eight Materials

ROCK BORING LOG

Page 1 of 2
Date 5/15/73

ROUTE FAP 692 DESCRIPTION IL 160 over East Fork Silver Creek LOGGED BY J. King C. Hoffmann

SECTION 12-1BR-1 LOCATION NE 14, SW 14, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison CORING METHOD _____

STRUCT. NO. 060-0331 CORING BARREL TYPE & SIZE _____
Station 1440+97.5

BORING NO. 2
Station 1441+95
Offset 14,000 ft
Ground Surface Elev. 510.2 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMP. (°F)	PERCENTAGE (%)	REMARKS	DEPTH (ft)	SOIL TYPE	WATER	TEMP. (°F)	PERCENTAGE (%)	REMARKS
0	Brown Silty CLAY										
5	0.33 B			42							
10	Brown and Gray Silty CLAY										
15	Brown and Gray Silty CLAY (with Wood)										
16	Gray Sandy Silty CLAY										
17	Brown and Gray Clay TILL										

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District Eight Materials

ROCK BORING LOG

Page 2 of 2
Date 5/15/73

ROUTE FAP 692 DESCRIPTION IL 160 over East Fork Silver Creek LOGGED BY J. King C. Hoffmann

SECTION 12-1BR-1 LOCATION NE 14, SW 14, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison CORING METHOD _____

STRUCT. NO. 060-0331 CORING BARREL TYPE & SIZE _____
Station 1440+97.5

BORING NO. 2
Station 1441+95
Offset 14,000 ft
Ground Surface Elev. 510.2 ft

DEPTH (ft)	SOIL TYPE	WATER	TEMP. (°F)	PERCENTAGE (%)	REMARKS	DEPTH (ft)	SOIL TYPE	WATER	TEMP. (°F)	PERCENTAGE (%)	REMARKS
0	Brown and Gray Clay TILL (continued)										
5	0.33 B			42							
10	Brown and Gray Laminated SHALE										
15	Gray Laminated SHALE										
16	Brown and Gray Silty CLAY (with Wood)										
17	Gray Sandy Silty CLAY										
18	Brown and Gray Clay TILL										

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

BORING LOGS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 692	SECTION 12-1BR-1	COUNTY MADISON	TOTAL SHEETS 45	SHEET NO. 20
FED. ROAD DIST. NO. 7				FED. AID PROJECT-

Contract #76386

Soil Boring Log

Illinois Department of Transportation
Division of Highways
District Eight, Macomb

Page 1 of 1
Date 12/28/03

ROUTE FAP 692 DESCRIPTION IL 160 over Silver Creek LOGGED BY Brent Meise

SECTION 12-1BR-1 LOCATION NE 1/4, SW 1/4, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

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

STRUCT. NO. 060-0331 SURFACE WATER ELEV. _____ ft
 Station 1440+97.5 Stream Bed Elev. 499.0 ft

BORING NO. 3 GROUNDWATER ELEV.: _____ ft
 Station 1441+60 First Encounter 494.4 ft
 Offset 57.00ft RL Upon Completion _____ ft
 Ground Surface Elev. 502.9 ft Alter _____ Hrs.

Soil Description	D E P T H S	B L O S	U C S	M O I S T U R E %	Coring Data	
					(ft)	(#)
Brown Silty Clay LOAM	0-1	0.8			48	4.5
	1-2	0.8			50	S/10
	1	S/10			50 1/2	4.6
	1	S/10			50	S/10
Brown Silt LOAM	0-1	0.3			475.9	2.0
	1	S/10			50 1/2	S/10
Borehole continued with rock coring.						
Brown Silty Clay LOAM	0-1	0.2			488.9	3
	0	E			30	
	2	0.9			488.9	4
	4	S/15				
Brown Sandy CLAY	0-2	0.5			486.4	3
	3	S/15				
	4	S/15				
Brown Medium to Coarse SAND See Gradation @ 18 ft	0-1				483.9	3
	1				NC	
	3	NC				
Gray Laminated SHALE	0-14				40	

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

Rock Boring Log

Illinois Department of Transportation
Division of Highways
District Eight, Macomb

Page 1 of 1
Date 12/28/03

ROUTE FAP 692 DESCRIPTION IL 160 over Silver Creek LOGGED BY Brent Meise

SECTION 12-1BR-1 LOCATION NE 1/4, SW 1/4, SEC. 4, TWP. 4N, RNG. 5W, 3 PM

COUNTY Madison CORING METHOD Core Barrel

STRUCT. NO. 060-0331 CORING BARREL TYPE & SIZE NX (2.885 in)
 Station 1440+97.5

BORING NO. 3 Core Diameter 2 in
 Station 1443+50 Top of Rock Elev. 475.90 ft
 Offset 57.00ft RL Begin Core Elev. 475.90 ft
 Ground Surface Elev. 502.9 ft

Soil Description	D E P T H S	R E C O R D	C O R E	S T R I E T I N G	
					(ft)
Gray Laminated SHALE	0-1	93	66	4	40
	1-1	93	66	1.75	40
	1-1	93	66	8.25	40
	1-1	93	66	5	40
	1-1	93	66	7.5	40
	1-1	93	66	4.75	40
	1-1	93	66	4	40
	1-1	93	66	2.5	40
	1-1	93	66	3	40
	1-1	93	66	3	40
	1-1	93	66	3	40
End of Boring and Rock Core					

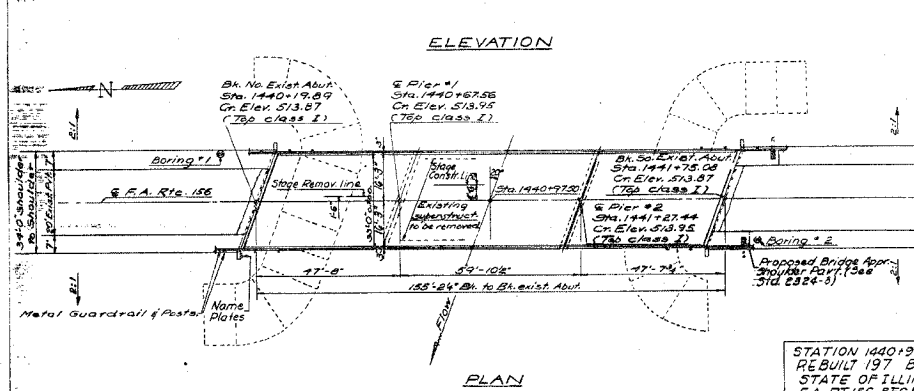
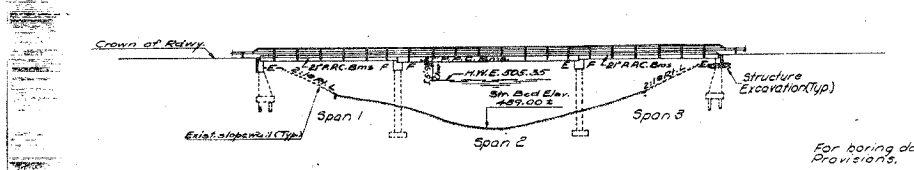
Color pictures of the cores _____ Yes _____
 Cores will be stored for examination until _____
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

BORING LOGS
F.A.P. ROUTE 692 - SECTION 12-1BR-1
MADISON COUNTY
STATION 1440+97.5
STRUCTURE NO. 060-0335

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	48
STA.		TO STA.		
CONTRACT NO.: 76386				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

3. M. 1' cut in top of No. Abut. wing east side Elev. 514.55.
Existing structure: Built as F.A. Rt. 156, Sec. 12 B in 1937. Bids on 3 spans continuous I beams on column abutment and column piers. Contractor shall remove superstructure using stage construction. No salvage.



WATERWAY INFORMATION

Channel area: 410.32 cfs
 Character: rolling
 Present opening: 1395 sq. ft.
 Required opening: 1395 sq. ft.
 Proposed opening: 1395 sq. ft.

PRECAST PRESTR. UNITS FIELD UNITS

W.M.E. 305.35
 P.C. = 5000 psi
 P.S. = 270,000 psi (1% Standards)
 P.S. = 180,700 psi (1% Standards)

LOADING HS 20-44

Design Specifications: AASHTO 1973 as applicable.
 Allow 25% / 50% for future W.S.

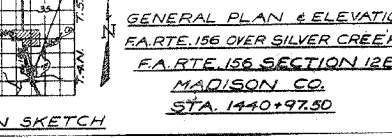
GENERAL NOTES

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
 All Structural Steel shall be shop primed with two coats of Davis Lead Silico Chromate paint. All reinforcement bars shall be lapped 24 dia. unless otherwise shown.
 Expansion guards shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specifications and are included in quantity of Structural Steel.
 The top surface of the beam shall be finished in accordance with Art 503.06 of the Std Specifications except that the surface shall not be roughed by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
 See Special Provisions for Waterproofing Membrane System.
 Expansion bolts shall consist of self-drilling expansion anchors and 1/2" x 12" hooked bolts, unless otherwise shown.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bit Concrete Surf. (see Class)	Tons	63		63
Removal of Exist Superstr.	Cu Yds		12	12
Class 1 Concrete (see Class)	Cu Yds	126	375	501
Reinforcement Bars	Lbs	870	5950	6820
Structural Steel	Lbs	6930		6930
Steel Railing Type 1	Lin. Ft	306		306
P.P.C. De Bms (27")	Sq. Ft	1971		1971
P.P.C. De Bms (21")	Sq. Ft	306		306
Name Plates	Each		1	1
Part Remov P.P.C. (see Class)	Cu Yds	12		12
Waterproofing Membrane Syst	Sq Yds	594		594
Protective Coat	Sq Yds	51		51
Prefabricated Joint Sealer	Lin. Ft	104		104
Temporary Guardrail	Lin. Ft	155		155
Concrete Removal	Cu Yds		12	12
Expansion Bolts 1/2"	Each		126	126
Structure Excavation	Cu Yds		12	12
Portland Cement Mortar Fair Coat	Lin. Ft	1525		1525

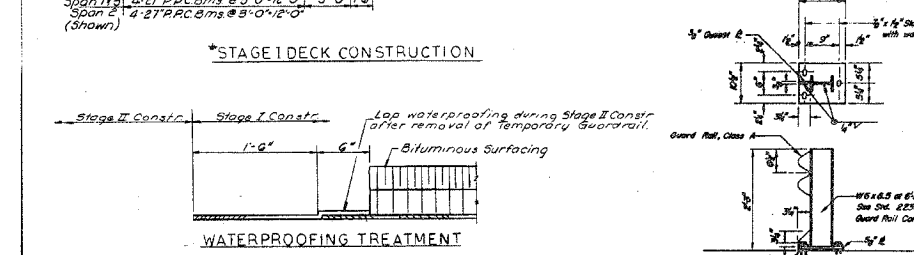
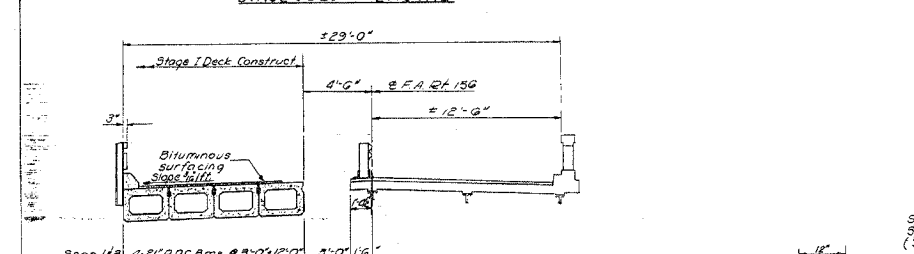
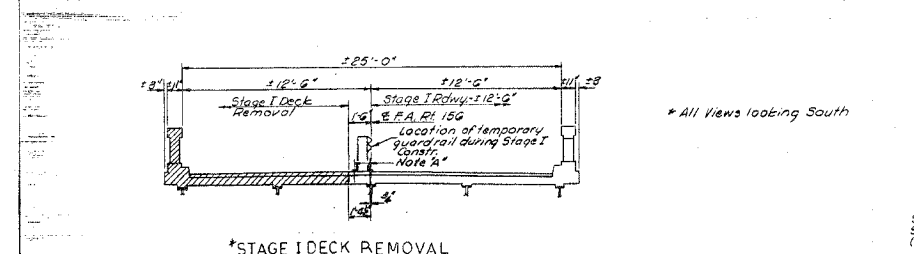
* Bituminous Concrete Surface Course quantity is from end to end of deck beams.



GENERAL PLAN & ELEVATION

F.A. RT. 156 OVER SILVER CREEK
 F.A. RT. 156 SECTION 12 BR
 MADISON CO.
 STA. 1440+97.50

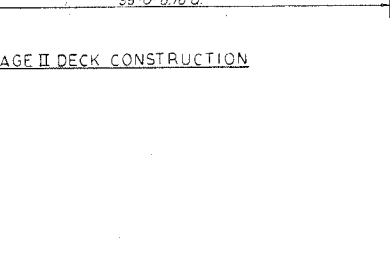
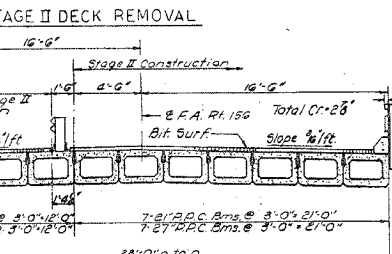
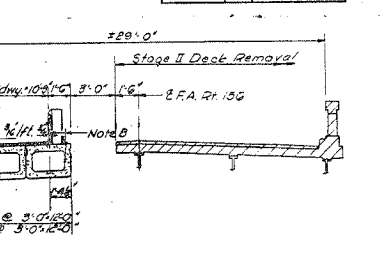
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TEMPORARY GUARD RAIL DETAIL

3-3/4" Self-drilling expansion bolts for placed or existing deck.
 3-Threaded inserts for 3/4" bolts. Cast in P.P.C. Deck Beam. Guard rails after removal.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



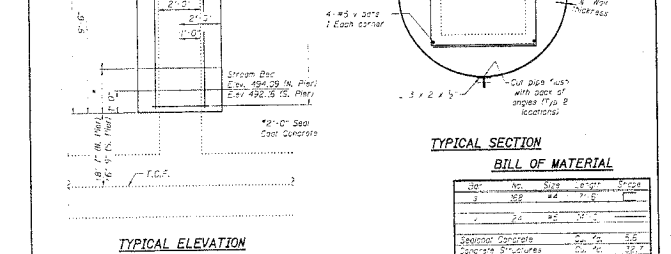
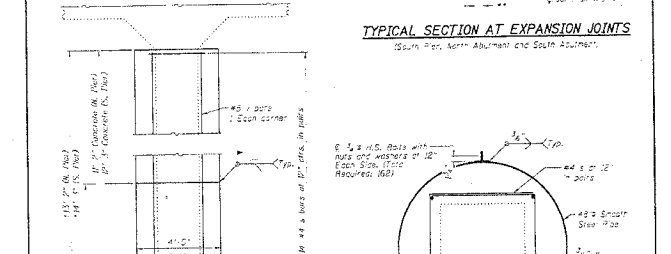
STAGE CONSTRUCTION

F.A. RT. 156 SEC. 12 BR
 MADISON COUNTY
 STA. 1440+97.50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

All structural steel shall conform to AASHTO Specification M 270 St. 55. Fasteners shall be high strength bolts. Bolt size shall be 1/2" unless otherwise noted.
 Reinforcement bars shall conform to the requirements of AASHTO M 31 or AASHTO M 31.1.
 When dimensions and details require to be verified, they shall be verified by the contractor's responsibility to verify such dimensions and details in the field and make necessary adjustments prior to construction of any part of the work. Such verifications shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished of the work shown on the work.



BILL OF MATERIAL

Item	Unit	Quantity
Expansion Bolts	Each	126
Expansion Anchors	Each	126
Temporary Guardrail	Lin. Ft	155
Concrete Removal	Cu Yds	12
Structure Excavation	Cu Yds	12
Portland Cement Mortar Fair Coat	Lin. Ft	1525

PIER RETROFIT DETAILS

IL 160
 MADISON COUNTY
 SN 060-0131

REVISIONS

NAME	DATE

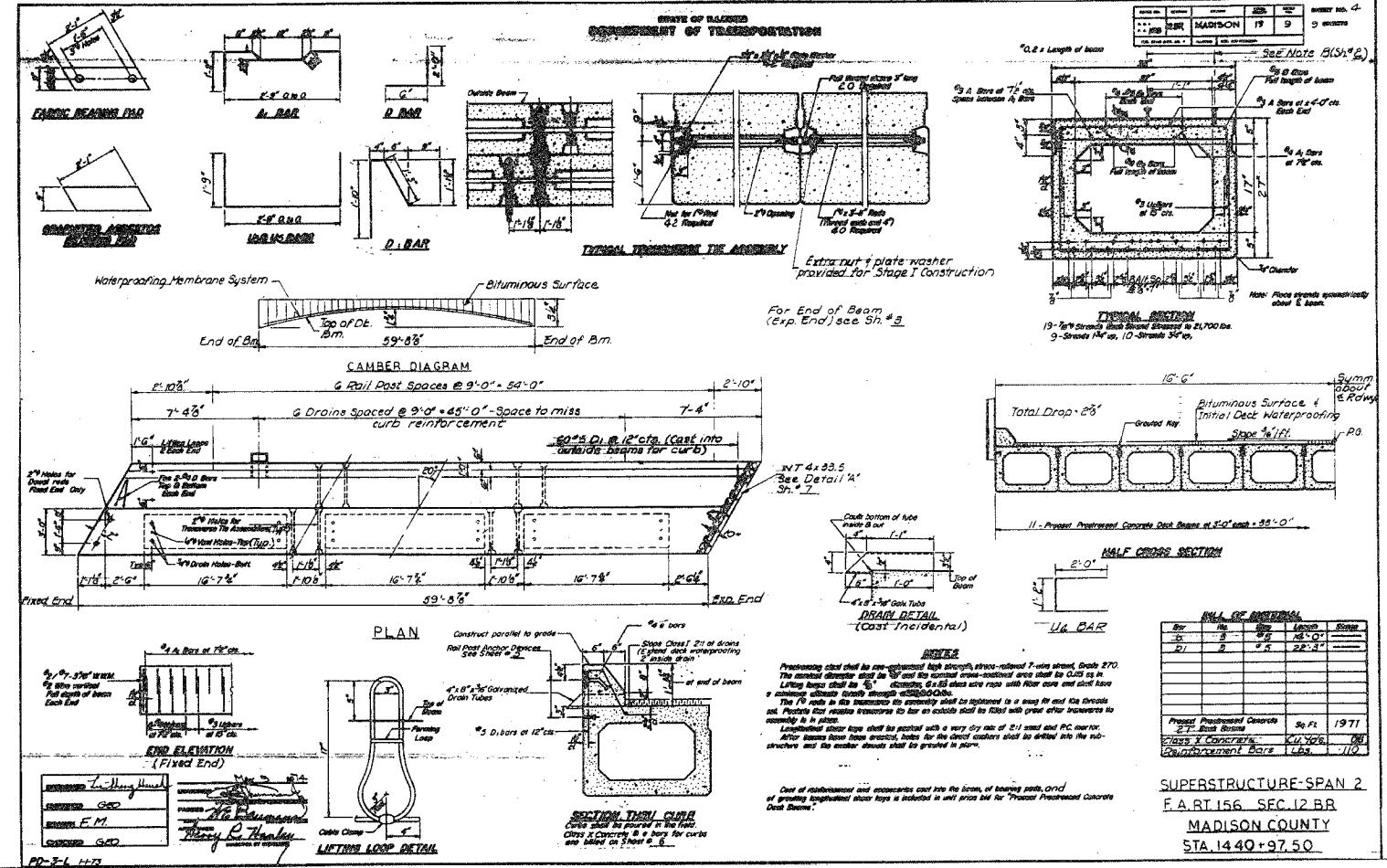
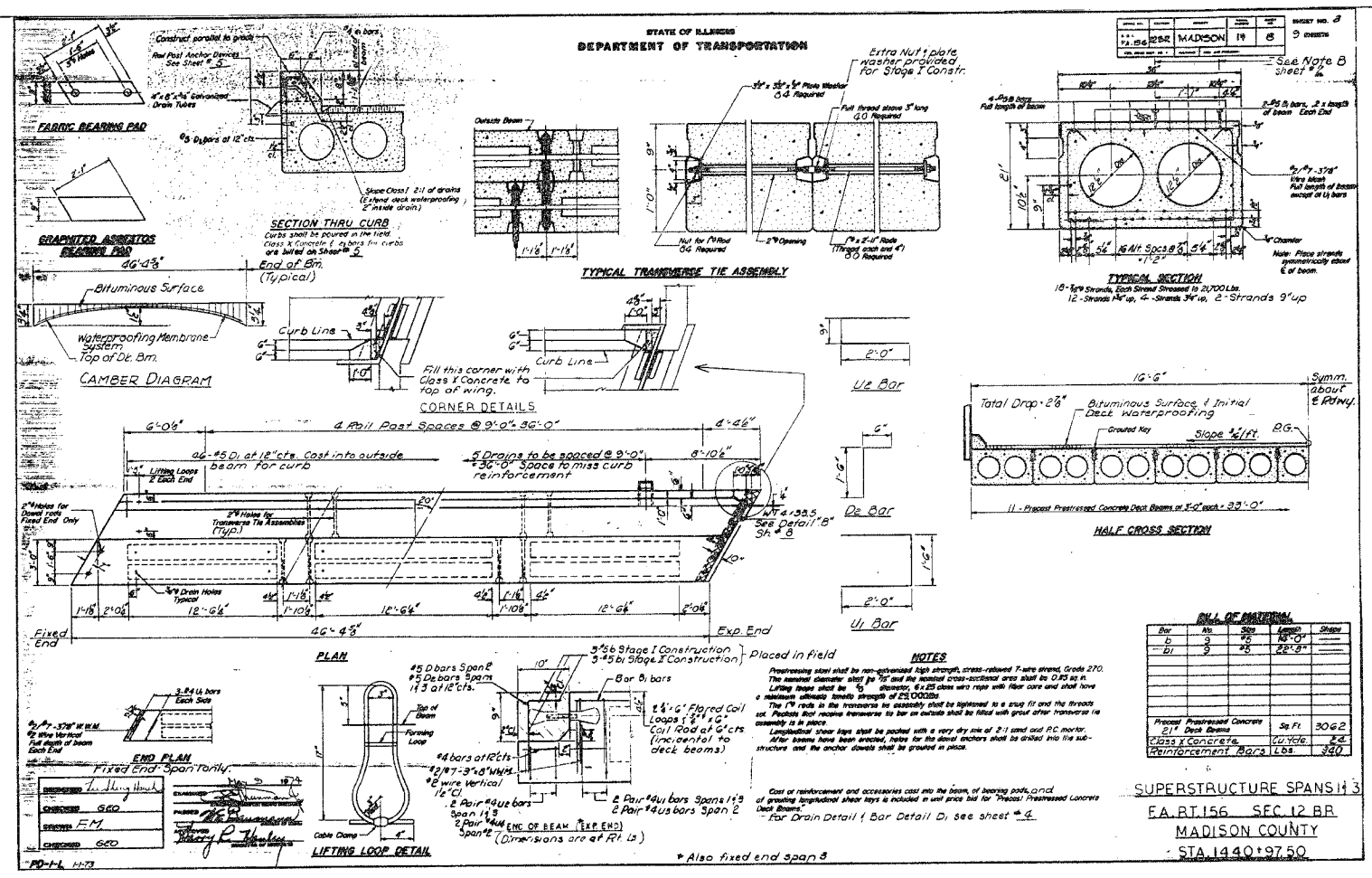
ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING BRIDGE PLANS
 FOR INFORMATION ONLY

FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

DRAWN BY:

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-IBR-1	MADISON	65	49
STA.	TO STA.			
CONTRACT NO.: 76386				

DATE
BY
DESIGNED
PLANNED
CHECKED
IN CHARGE
NO.
NOTE BOOK
FILE NO.
PROJECT FILE NAME
PLAN



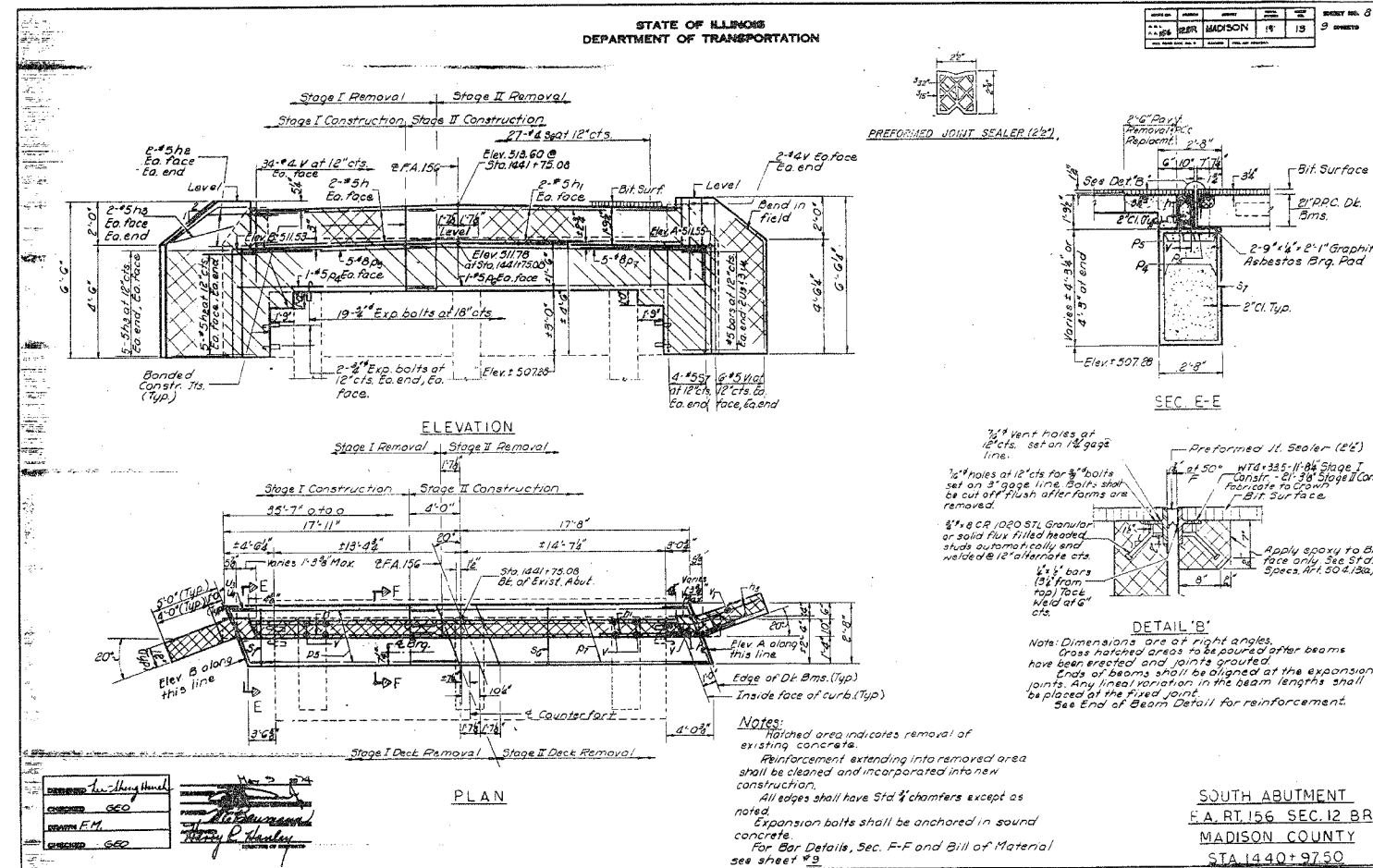
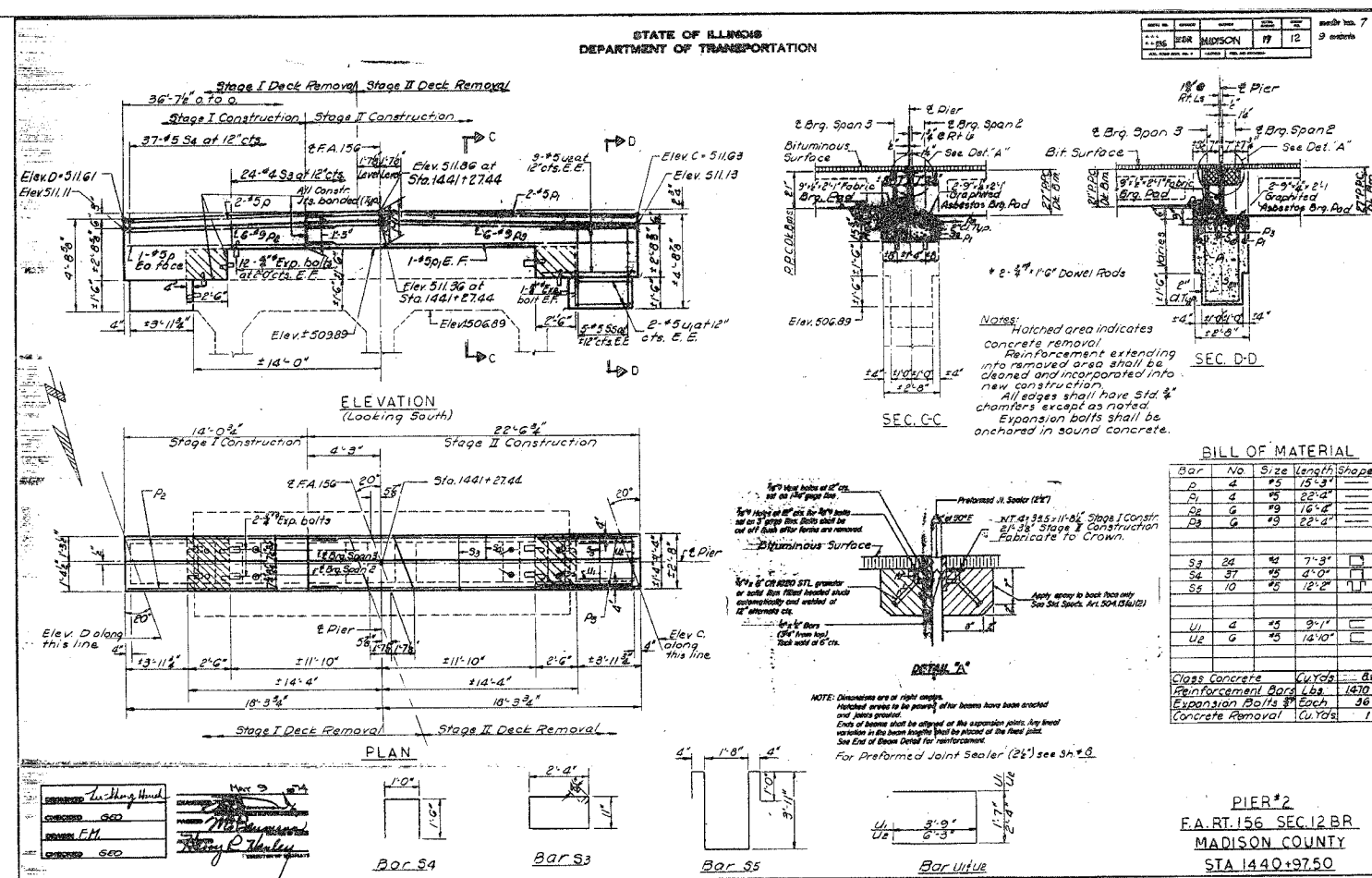
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

FAP 692
SECTION 12-IBR-1
MADISON COUNTY

DRAWN BY:

REVISIONS	
NAME	DATE

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	57
STA. _____ TO STA. _____		CONTRACT NO.: 76386		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

FAP 692
SECTION 12-1BR-1
MADISON COUNTY

DRAWN BY: _____

DATE	BY	REVISIONS

PLAN
NOTE BOOK
NO. _____

2/24/2005
Thursday, February 24, 2005 8:10:21:38 AM
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PLAN	REVISED	DATE
NOTE BOOK	ALIGNMENT CHECKED	
NO.	FIELD	
	ADD FILE NAME	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 9
OF 9 SHEETS

ELEVATION

PLAN

2 ABUTMENTS

BILL OF MATERIAL

Bar	No	Size	Length	Shape
R1	8	#5	14'-6"	
R1	8	#5	20'-3"	
R2	56	#5	9'-0"	
R2	56	#5	4'-9"	
R3	4	#5	15'-0"	
R3	10	#5	13'-0"	
R3	4	#5	21'-6"	
R7	10	#8	21'-6"	
S3	54	#4	7'-5"	
S7	16	#5	13'-5"	
U3	8	#5	9'-7"	
U4	12	#5	13'-1"	
V	152	#5	8'-0"	
V	88	#5	8'-3"	

Class X Concrete	Cu Yds	212
Expansion Bolts	Each	54
Reinforcement Bars	Lbs	3200
Concrete Removal	Cu Yds	10

NORTH ABUTMENT
F.A. RT. 156 SEC. 12 BR
MADISON COUNTY
STA 1440+9750

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO. 2
OF 2 SHEETS

GENERAL ELEVATION

PLAN

REBAR DATA

Item	Quantity	Unit	Total
Class X Concrete	212	Cu Yds	212
Manufactured Concrete	16.8	Cu Yds	16.8
Structuring Steel	33350	Lbs	33350
Structural Steel	75320	Lbs	75320
C. I. Floor Beams	34	Each	34
Treated Plywood on Form	640	Sq Yds	640
Test Piles	2	Each	2
Concrete Slab Mill	470	Sq Yds	470
Earth Excavation	1000	Cu Yds	1000
Name Plate	One	Each	One

TOTAL BILL OF MATERIAL

PROJECT - 873-B
F.A. ROUTE 156 - SEC. 12 BR
MADISON COUNTY
STA. 1440+97.5

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	52
STA.	TO STA.			
CONTRACT NO.: 76396				

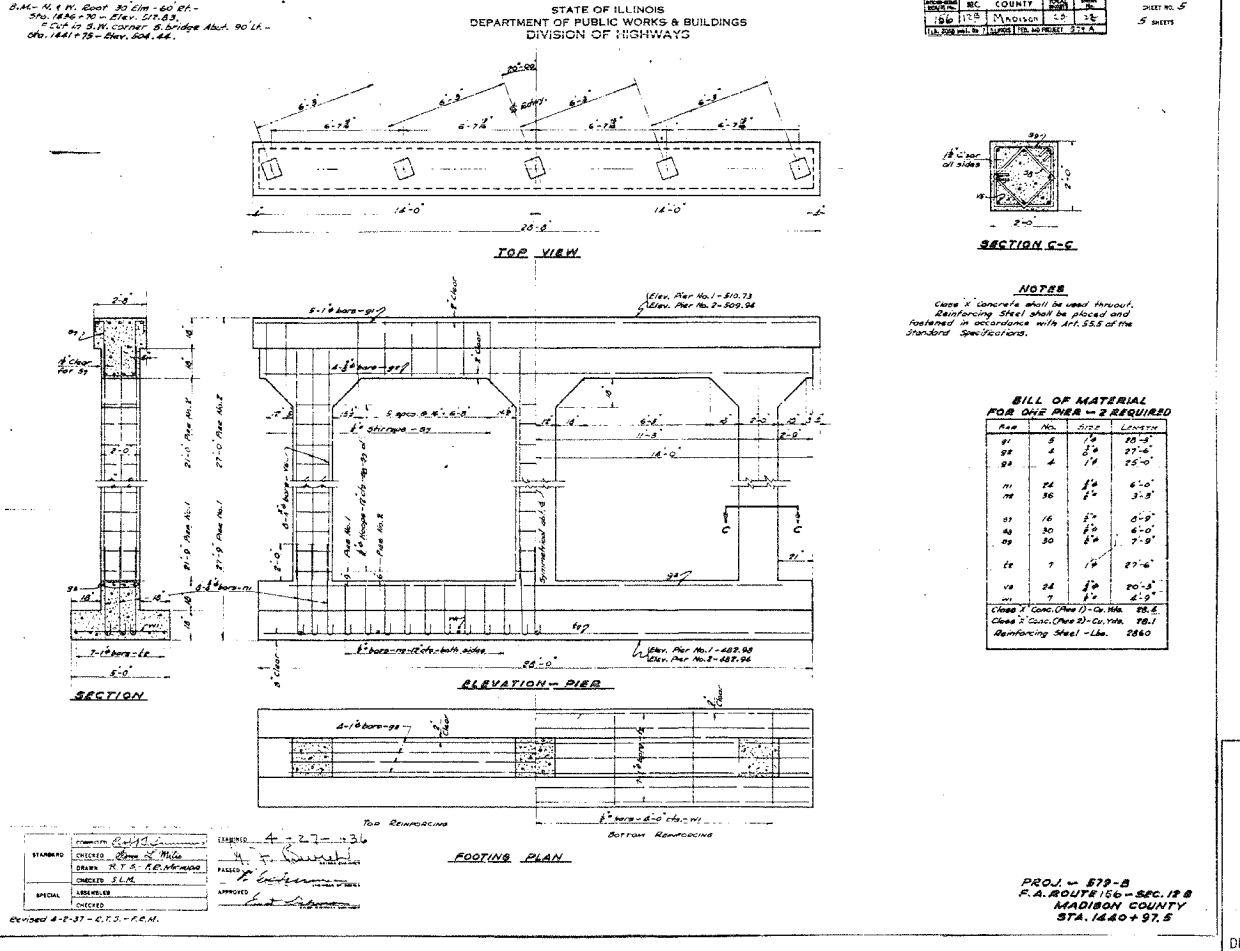
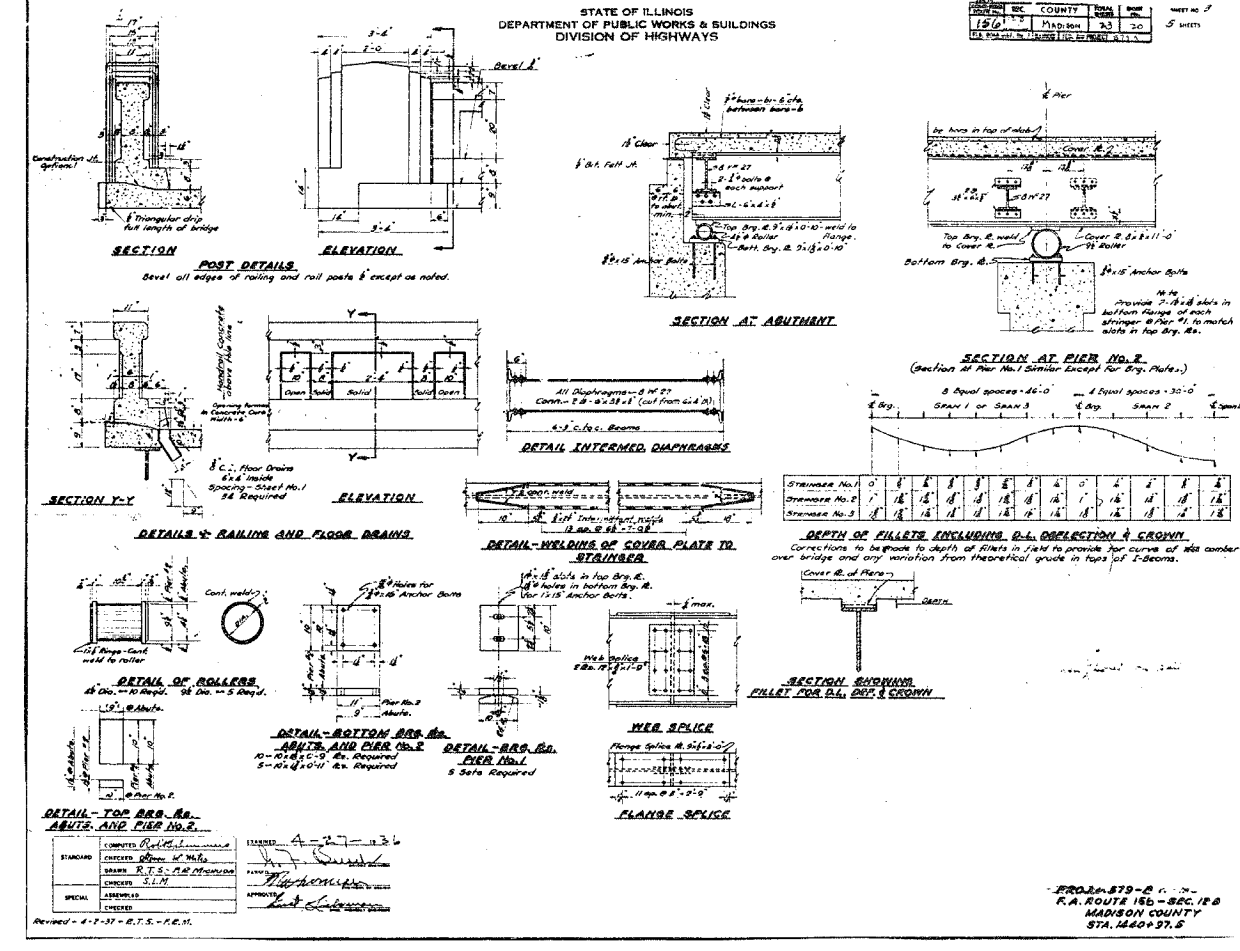
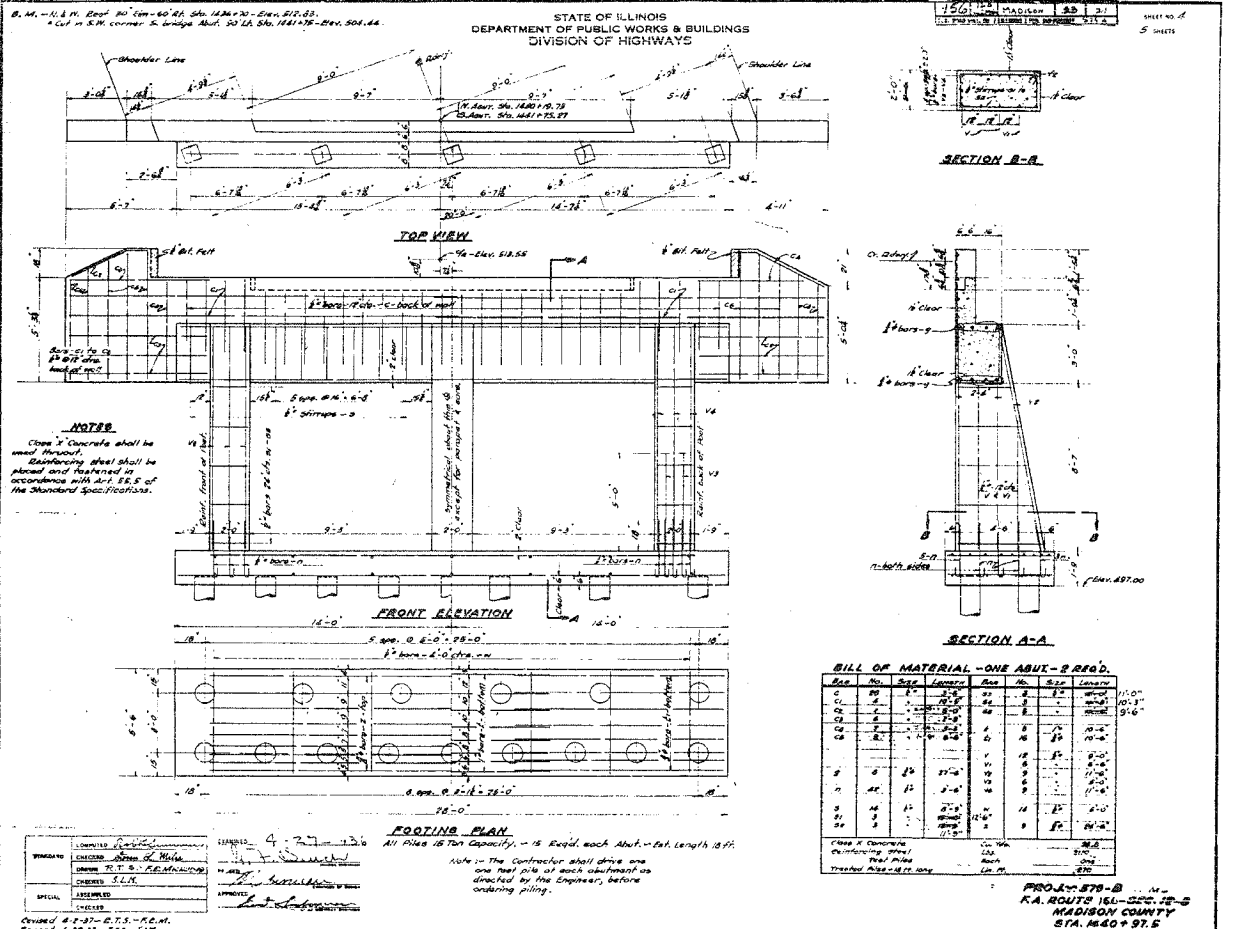
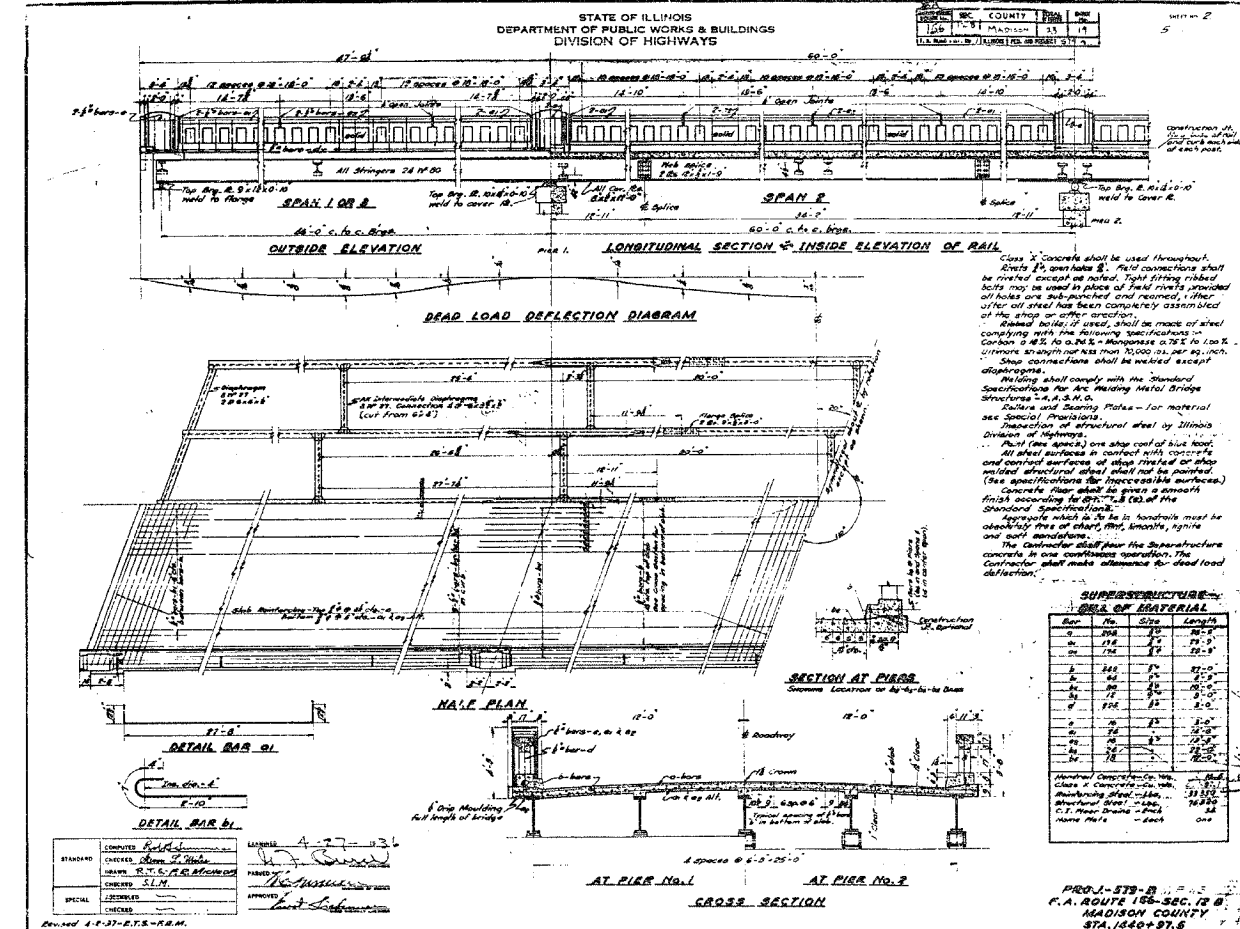
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS FOR INFORMATION ONLY

FAP 692
SECTION 12-1BR-1
MADISON COUNTY

DRAWN BY:

Table with columns: FAP ROUTE, SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 692, 12-1BR-1, MADISON, 65, 52A. Includes CONTRACT NO.: 76386.



PLAN, DATE, BY, CHECKED, PLOTTED, PRINTED, FILE NAME, NO., DATE, BY, CHECKED, PLOTTED, PRINTED, FILE NAME, NO.

2/25/2005, Friday February 25, 2005 8:21:53 AM, st:\projects\2005\12br\12br.dwg, L:\1:53

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
FOR INFORMATION ONLY
FAP 692
SECTION 12-1BR-1
MADISON COUNTY

DRAWN BY:
PLOT DATE: Friday February 25, 2005 8:21:53 AM
EXISTING BRIDGE PLANS - FAP 692 (IL 160)

GENERAL NOTES

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

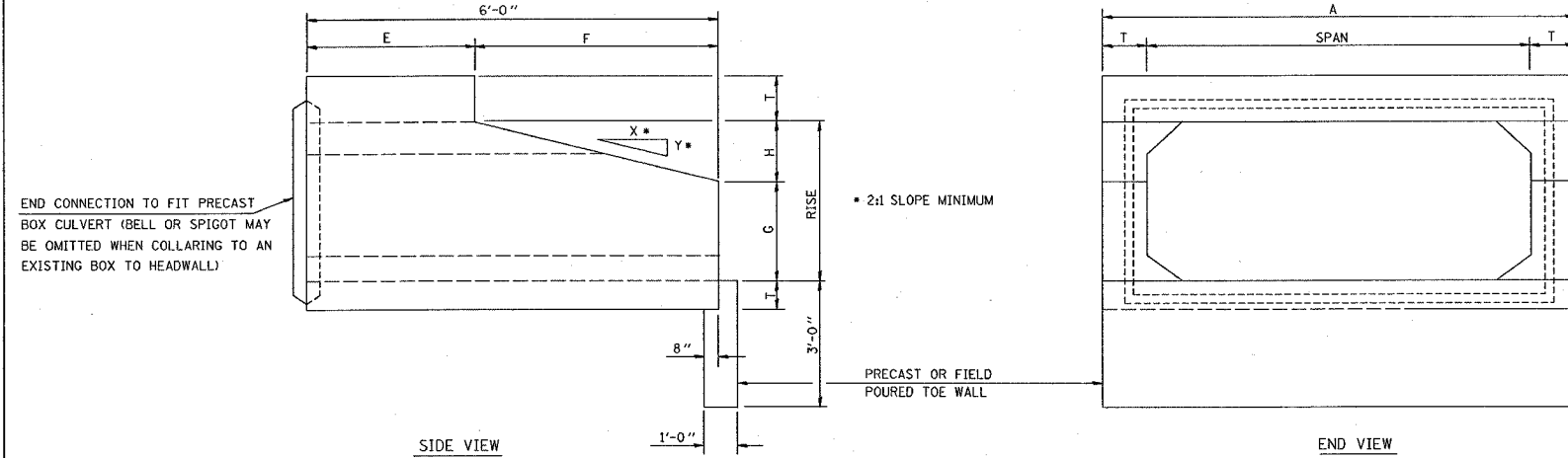
MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 755.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS AS1, AS2, AS3 AND AS4 DENOTES THE REQUIRED STEEL AREAS FOR REINFORCEMENTS AS SPECIFIED IN ASTM C 789. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185.

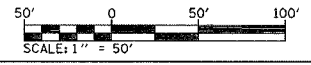
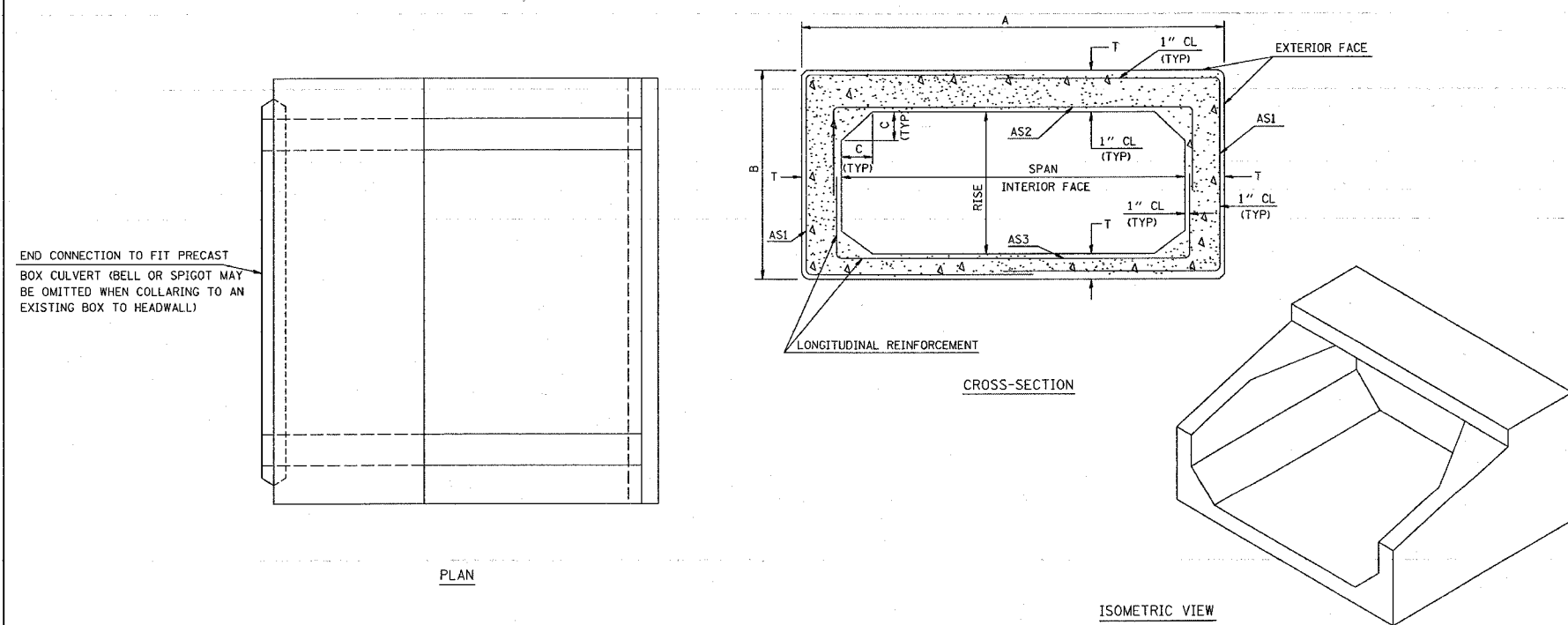
DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



• NOTE: THE DIMENSIONS INDICATED ARE FOR END SECTIONS THAT ARE TO BE USED WITH PRECAST BOX CULVERT SECTIONS DESIGNED FOR 2' OR MORE OF FILL. THE DIMENSIONS MUST BE MODIFIED FOR THE END SECTION TO BE COMPATIBLE WITH PRECAST CULVERT SECTIONS DESIGNED FOR LESS THAN 2' OF FILL.

SPAN X RISE	T (INCHES)	A (FT-IN)	B (FT-IN)	C (INCHES)	E (FT-IN)	F (FT-IN)	G (FT-IN)	H (FT-IN)	SLOPE (X:Y)
2' X 2'	4	2-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 2'	4	3-8	2-8	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	4	3-8	3-8	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	5	4-10	2-10	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	5	4-10	3-10	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	5	4-10	4-10	5	2-0	4-0	2-0	2-0	2:1
5' X 2'	6	6-0	3-0	6	3-0	3-0	1-0	1-0	3:1
5' X 3'	6	6-0	4-0	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	6	6-0	5-0	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	6	6-0	6-0	6					
6' X 2'	7	7-2	3-2	7	3-0	3-0	1-0	1-0	3:1
6' X 3'	7	7-2	4-2	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	7	7-2	5-2	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	7	7-2	6-2	7					
6' X 6'	7	7-2	7-2	7					
7' X 4'	8	8-4	5-4	8	2-0	4-0	2-0	2-0	2:1
7' X 5'	8	8-4	6-4	8					
7' X 6'	8	8-4	7-4	8					
7' X 7'	8	8-4	8-4	8					
8' X 4'	8	9-4	5-4	8	2-0	4-0	2-0	2-0	2:1
8' X 5'	8	9-4	6-4	8					
8' X 6'	8	9-4	7-4	8					
8' X 7'	8	9-4	8-4	8					
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9' X 5'	9	10-6	6-6	9					
9' X 6'	9	10-6	7-6	9					
9' X 7'	9	10-6	8-6	9					
9' X 8'	9	10-6	9-6	9					
9' X 9'	9	10-6	10-6	9					
10' X 4'	10	11-8	5-8	10					
10' X 5'	10	11-8	6-8	10					
10' X 6'	10	11-8	7-8	10					
10' X 7'	10	11-8	8-8	10					
10' X 8'	10	11-8	9-8	10					
10' X 9'	10	11-8	10-8	10					
10' X 10'	10	11-8	11-8	10					
11' X 4'	11	12-10	5-10	11					
11' X 6'	11	12-10	7-10	11					
11 X 8'	11	12-10	9-10	11					
11' X 10'	11	12-10	11-10	11					
11' X 11'	11	12-10	12-10	11					
12' X 4'	12	14-0	6-0	12					
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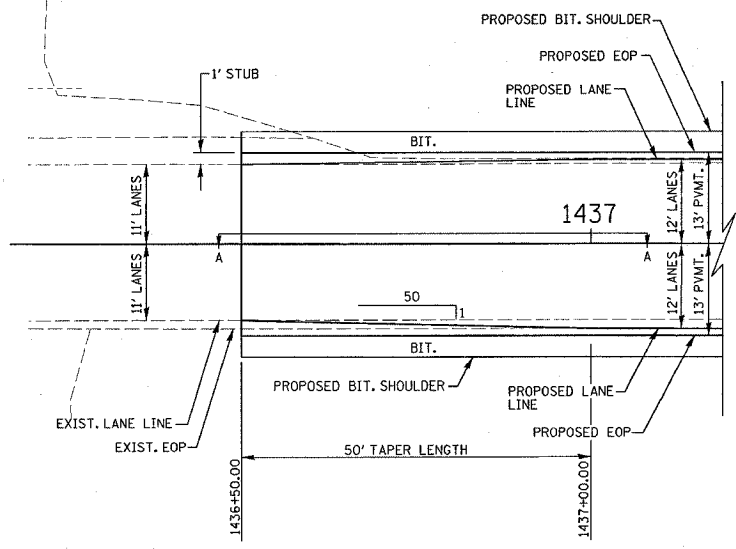


ILLINOIS DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE BOX CULVERT END SECTION DETAILS
 FAP 692
 SECTION 12-1BR-1
 MADISON COUNTY

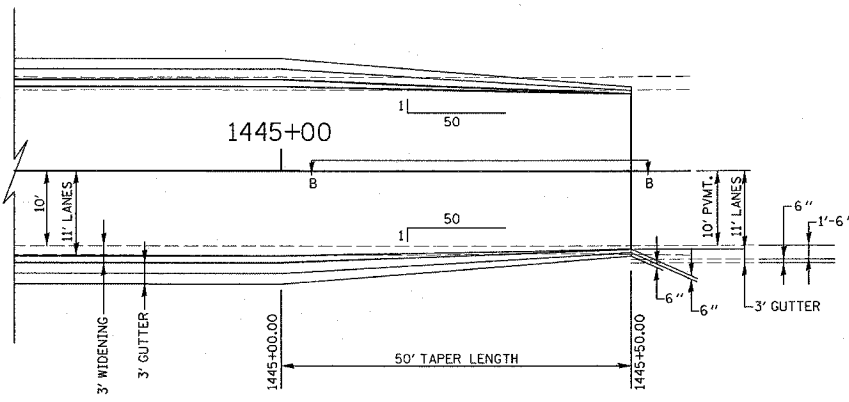
REVISIONS	
NAME	DATE

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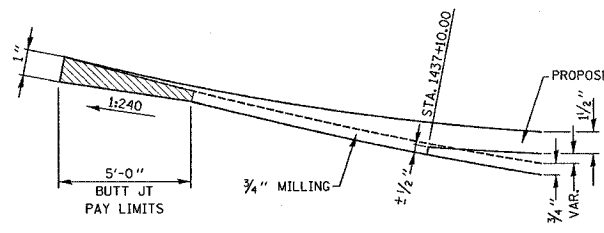
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	ALIGNED		
	CHECKED		
	BY		
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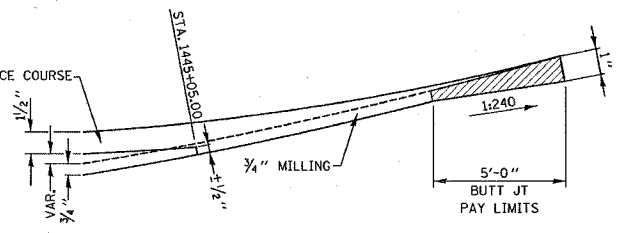
PLAN VIEW TAPER LENGTHS
BEGINNING OF JOB



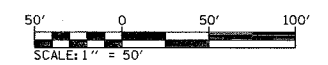
PLAN VIEW TAPER LENGTHS
END OF JOB



SECTION A-A
PROPOSED BUTT JOINT AT BEGINNING OF JOB
STA. 1437+10.00



SECTION B-B
PROPOSED BUTT JOINT AT END OF JOB
STA. 1445+05.00



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BUTT JOINT DETAILS

FAP 692
SECTION 12-1BR-1
MADISON COUNTY

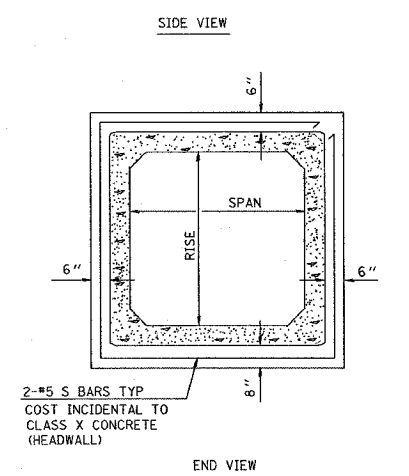
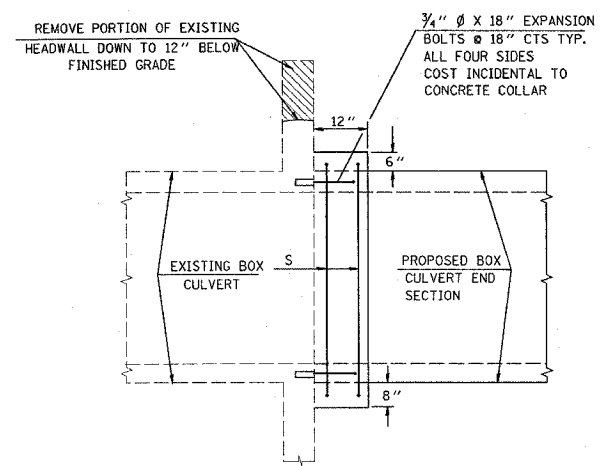
DRAWN BY:

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	55
STA. TO STA.		CONTRACT NO.: 76386		

FOR INFORMATION ONLY

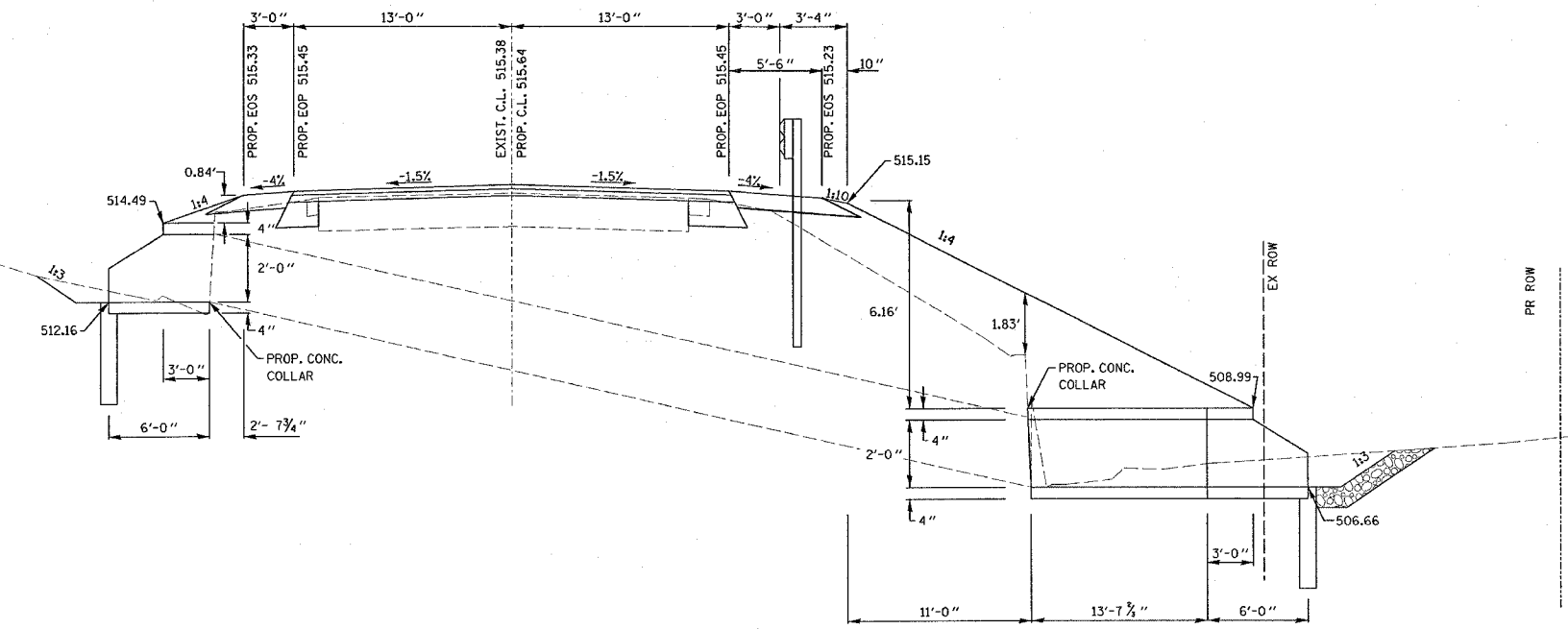
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2' X 2'	0.26
3' X 2'	0.30
3' X 3'	0.34
4' X 2'	0.36
4' X 3'	0.39
4' X 4'	0.43
5' X 2'	0.41
5' X 3'	0.45
5' X 4'	0.49
6' X 2'	0.47
6' X 3'	0.51
6' X 4'	0.54

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR CONCRETE COLLAR. THE REMOVAL OF THE EXISTING CONCRETE HEADWALL SHALL BE INCLUDED IN THE PAY ITEM CONCRETE HEADWALL REMOVAL OR CONCRETE HEADWALL REMOVAL PARTIAL AS SHOWN IN THE PLANS.

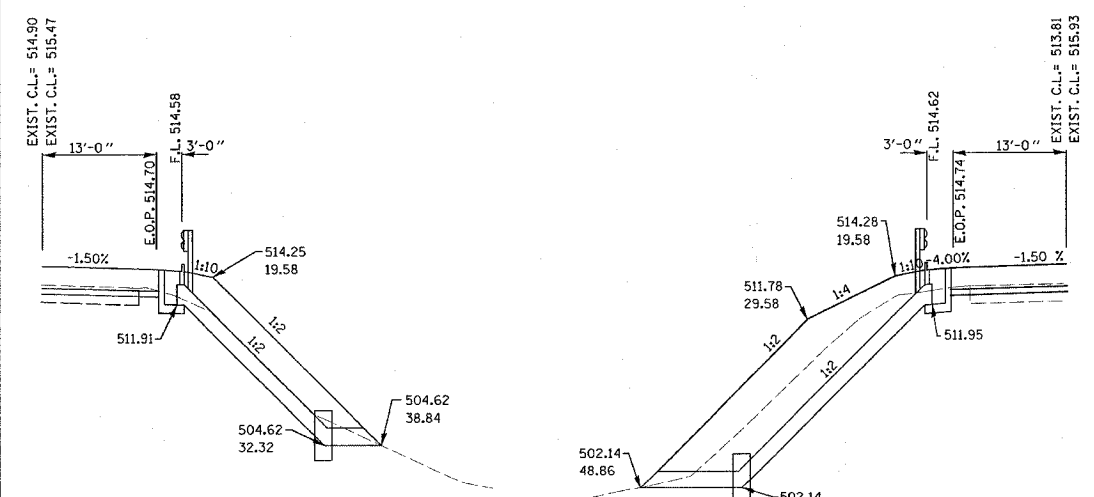


DETAILS OF CONCRETE COLLAR FOR PRECAST BOX CULVERT END SECTION

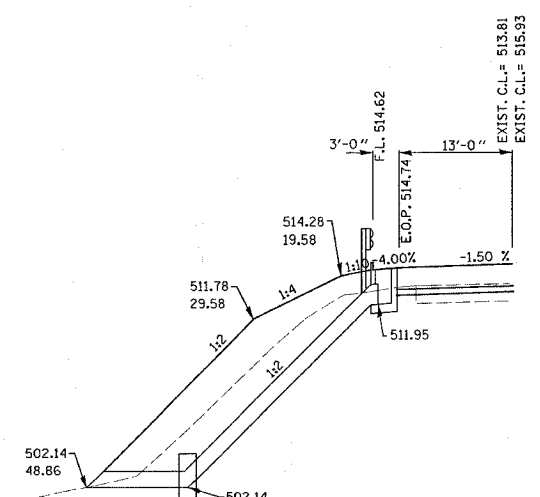
PLAN	DATE
NO.	
BY	
CHECKED	
ALIGNED	
PLOTTED	
DATE	



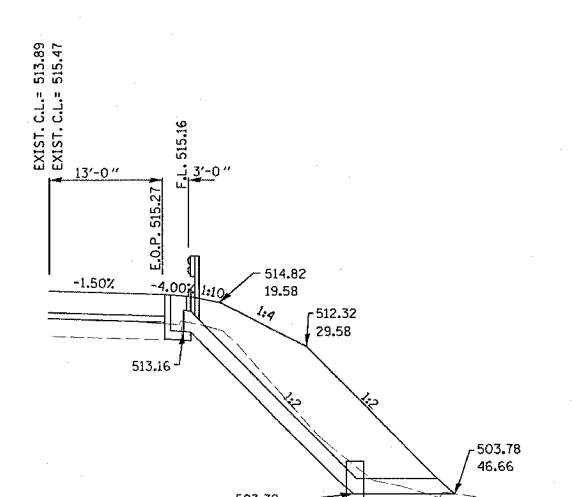
CROSS ROAD CULVERT EXTENSION DETAIL
1437+61.07 (SEE CROSS SECTIONS FOR ADDITIONAL INFO.)



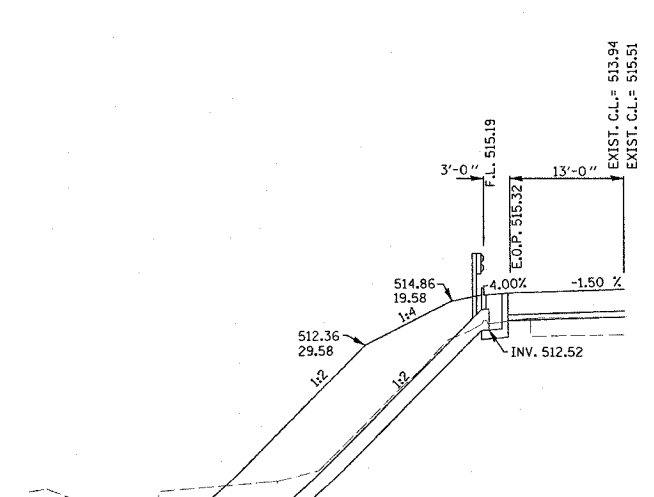
STA 1439+95.69 RT PIPE DRAIN DETAIL
(SEE CROSS SECTIONS FOR ADDITIONAL INFO.)



STA 1440+08.49 LT PIPE DRAIN DETAIL
(SEE CROSS SECTIONS FOR ADDITIONAL INFO.)



STA 1441+86.69 RT PIPE DRAIN DETAIL
(SEE CROSS SECTIONS FOR ADDITIONAL INFO.)



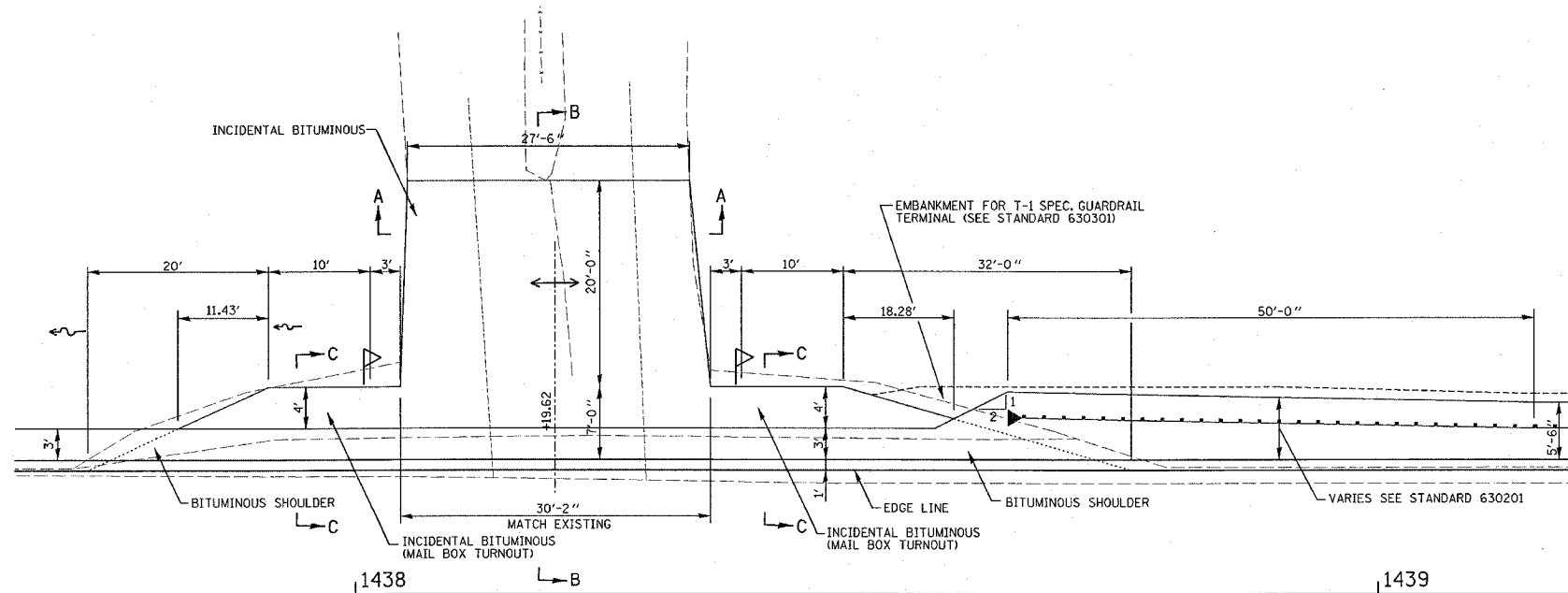
STA 1441+99.49 LT PIPE DRAIN DETAIL
(SEE CROSS SECTIONS FOR ADDITIONAL INFO.)

REVISIONS	
NAME	DATE

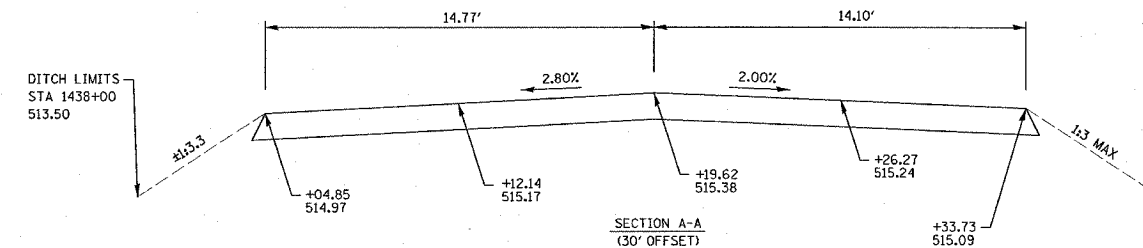
ILLINOIS DEPARTMENT OF TRANSPORTATION
DRAINAGE DETAILS
FAP 692
SECTION 12-1BR-1
MADISON COUNTY

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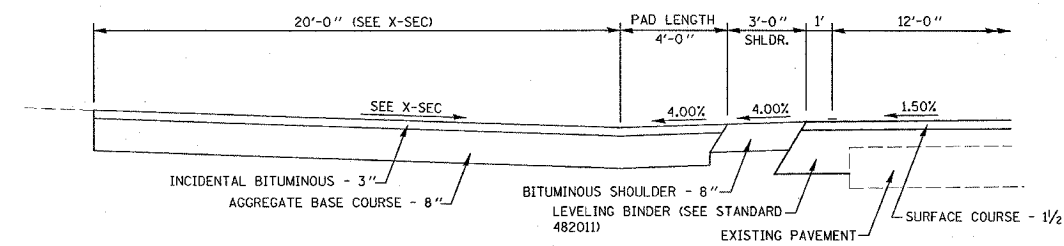
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	56
STA.	TO STA.			
CONTRACT NO.: 76386				



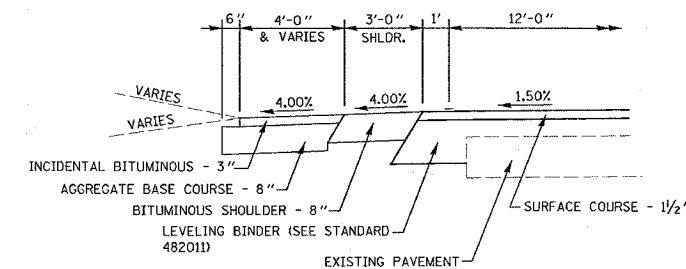
ENTRANCE 1 DETAIL
(SEE CROSS SECTIONS FOR MORE INFORMATION)
NOT TO SCALE



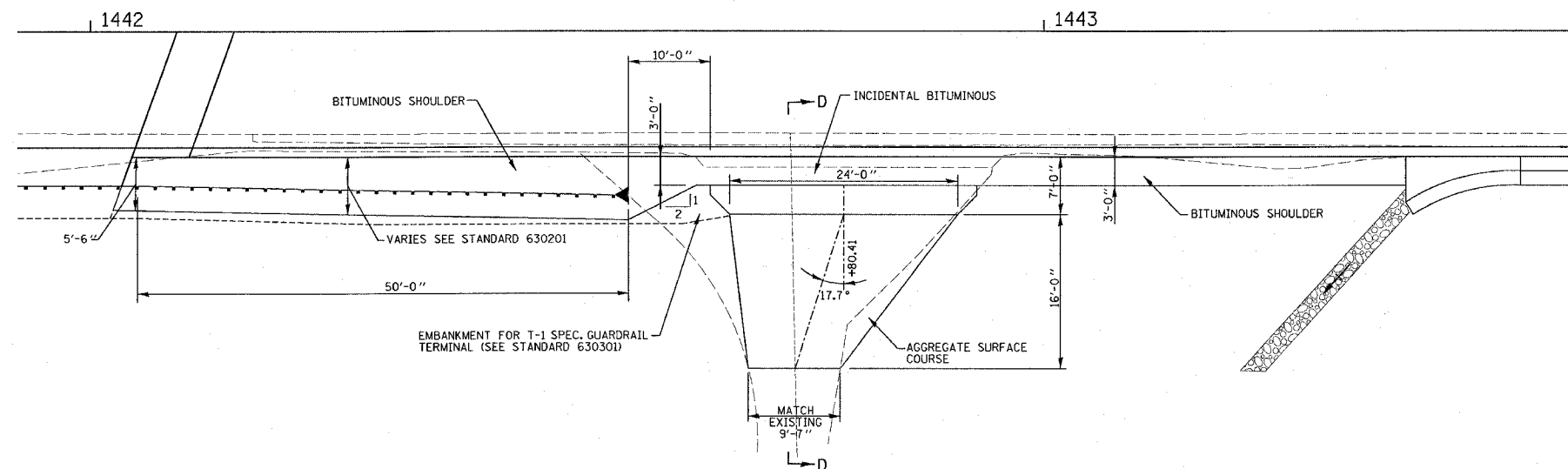
SECTION A-A @ 30' OFFSET
NOT TO SCALE



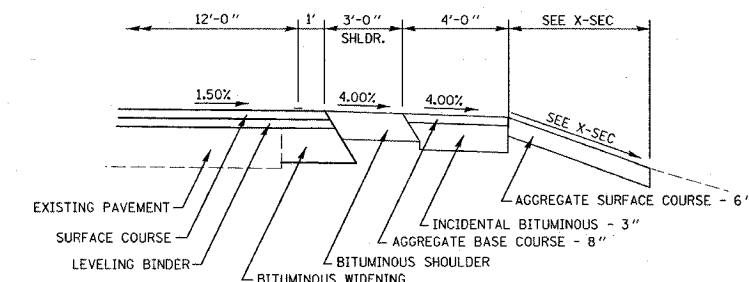
SECTION B-B
NOT TO SCALE



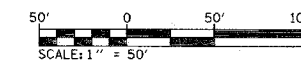
SECTION C-C
NOT TO SCALE



ENTRANCE 2 DETAIL
(SEE CROSS SECTIONS FOR MORE INFORMATION)
NOT TO SCALE



SECTION D-D
NOT TO SCALE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE DETAILS
FAP 692
SECTION 12-1BR-1
MADISON COUNTY

DRAWN BY:

PLOT DATE: Wednesday March 16, 2005 @ 1:48:40 PM
ENTRANCE DETAILS - FAP 692 (IL 160)

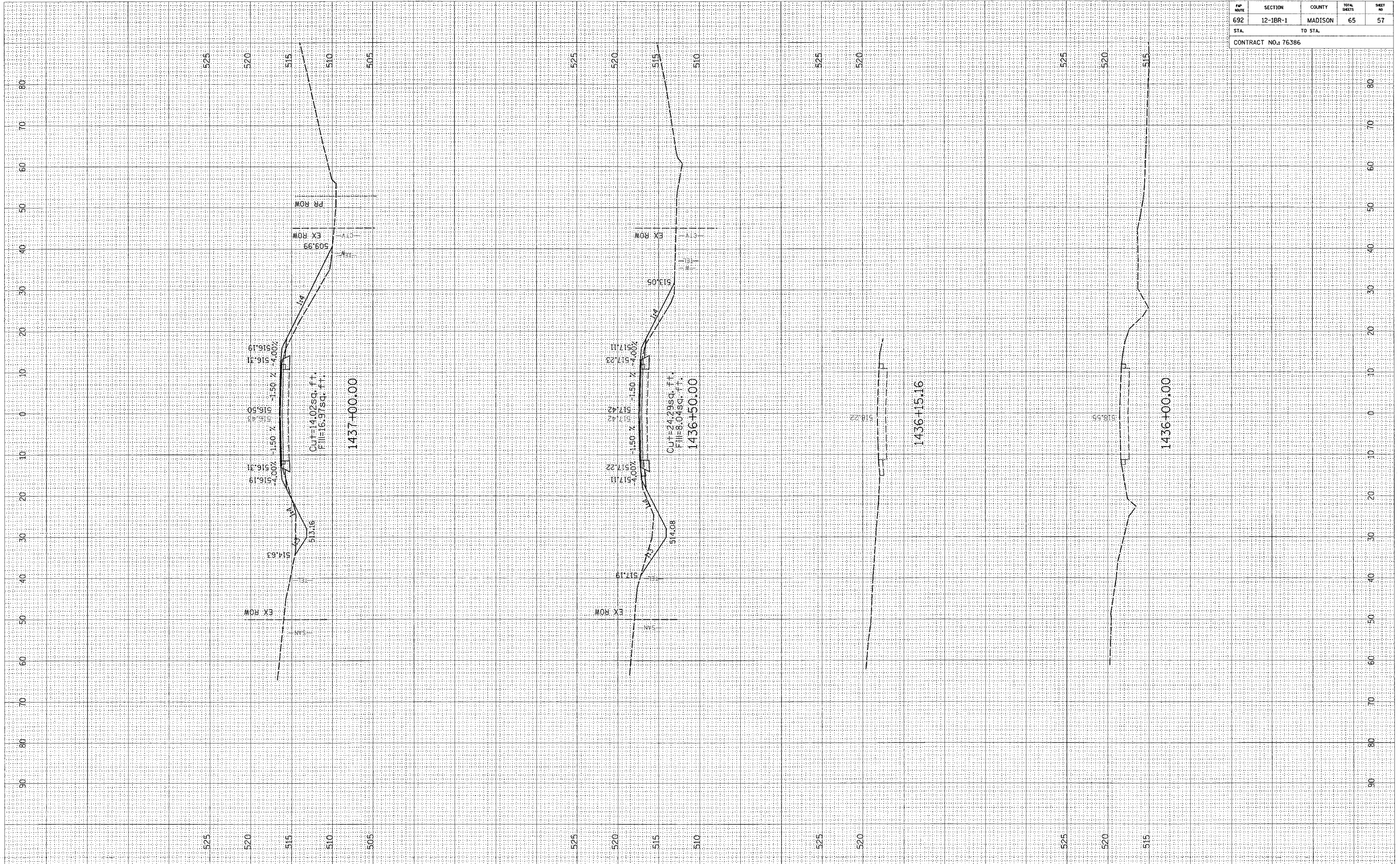
DATE	BY	REVISIONS

3/16/2005
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9/14/2005
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ORIGINAL SURVEY
 SURVEY
 NOTE BOOK
 AREAS CHECKED

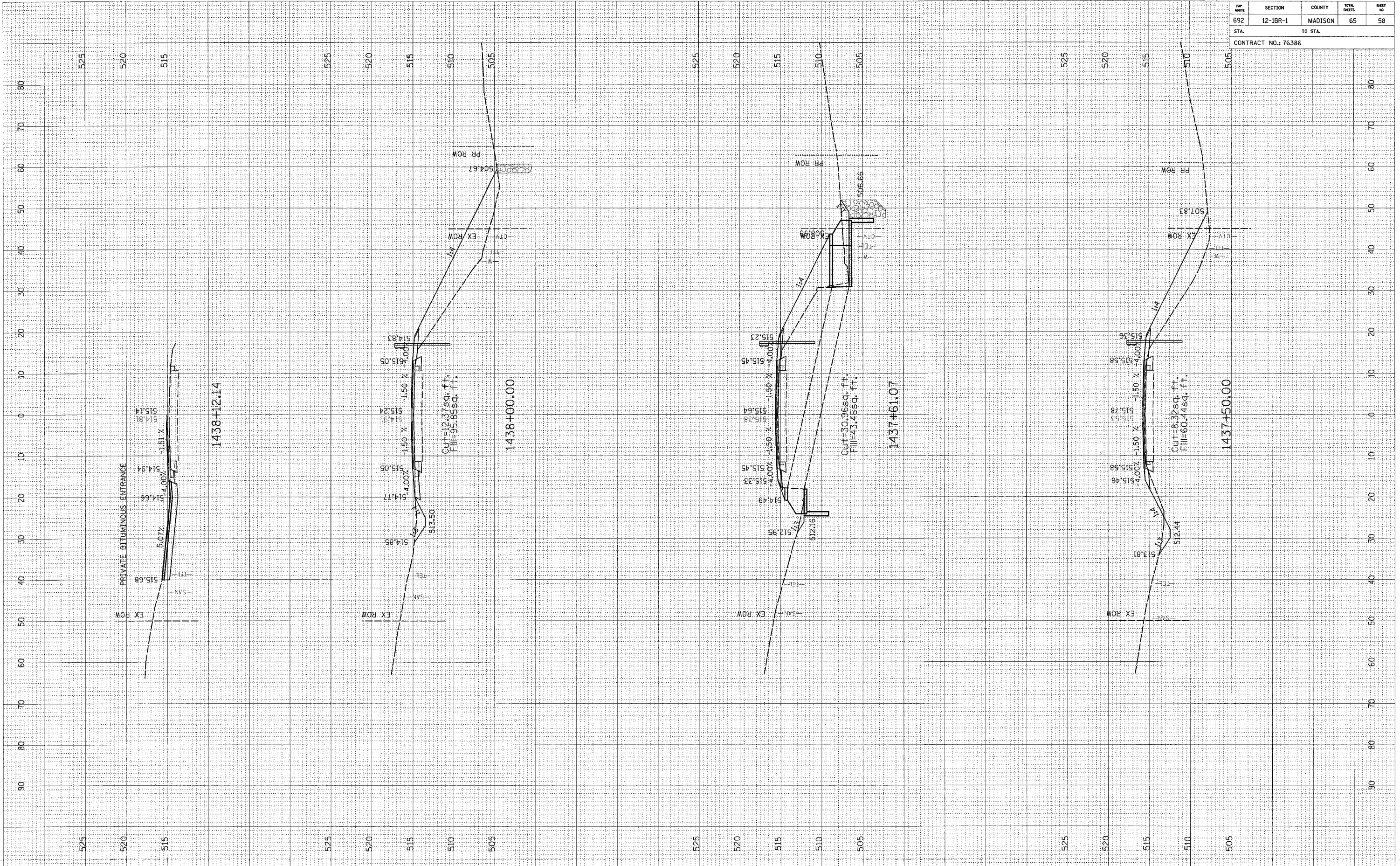
FINAL SURVEY
 SURVEY
 NOTE BOOK
 AREAS CHECKED



FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	57
STA.	TO STA.			

CONTRACT NO.: 76386

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	58
STA. TO STA.		CONTRACT NO.: 76386		

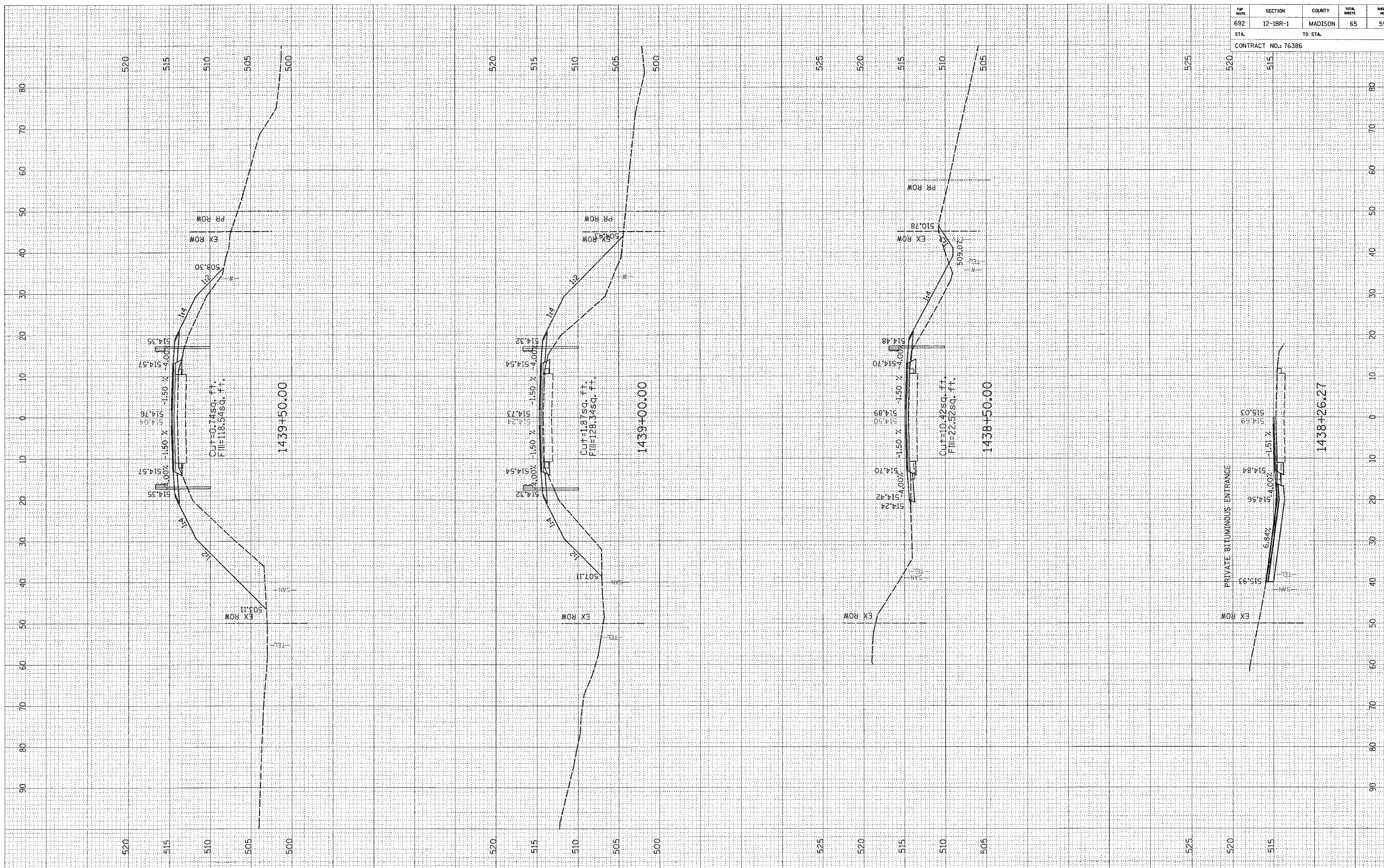


3/14/2005
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ORIGINAL SURVEY
 SURVEYED _____ BY _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS _____
 AREAS CHECKED _____

FINAL SURVEY
 SURVEYED _____ BY _____ DATE _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS _____
 AREAS CHECKED _____

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	59
STA. TO STA.		CONTRACT NO.: 76386		

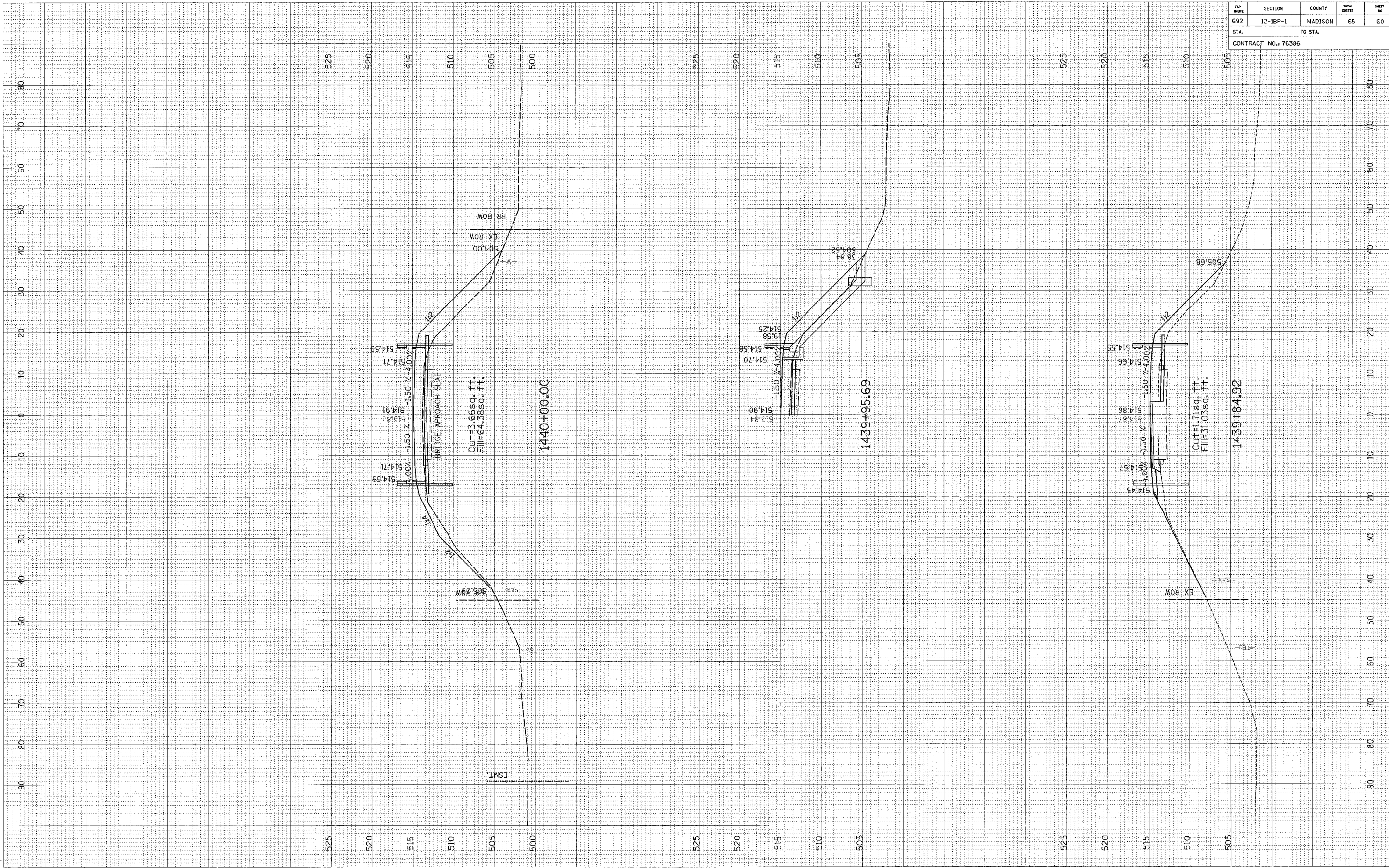


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 PLOTTED BY DATE
 NOTE BOOK NO.
 AREAS CHECKED NO.

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

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692	12-1BR-1	MADISON	65	60
STA. TO STA.		CONTRACT NO.: 76386		

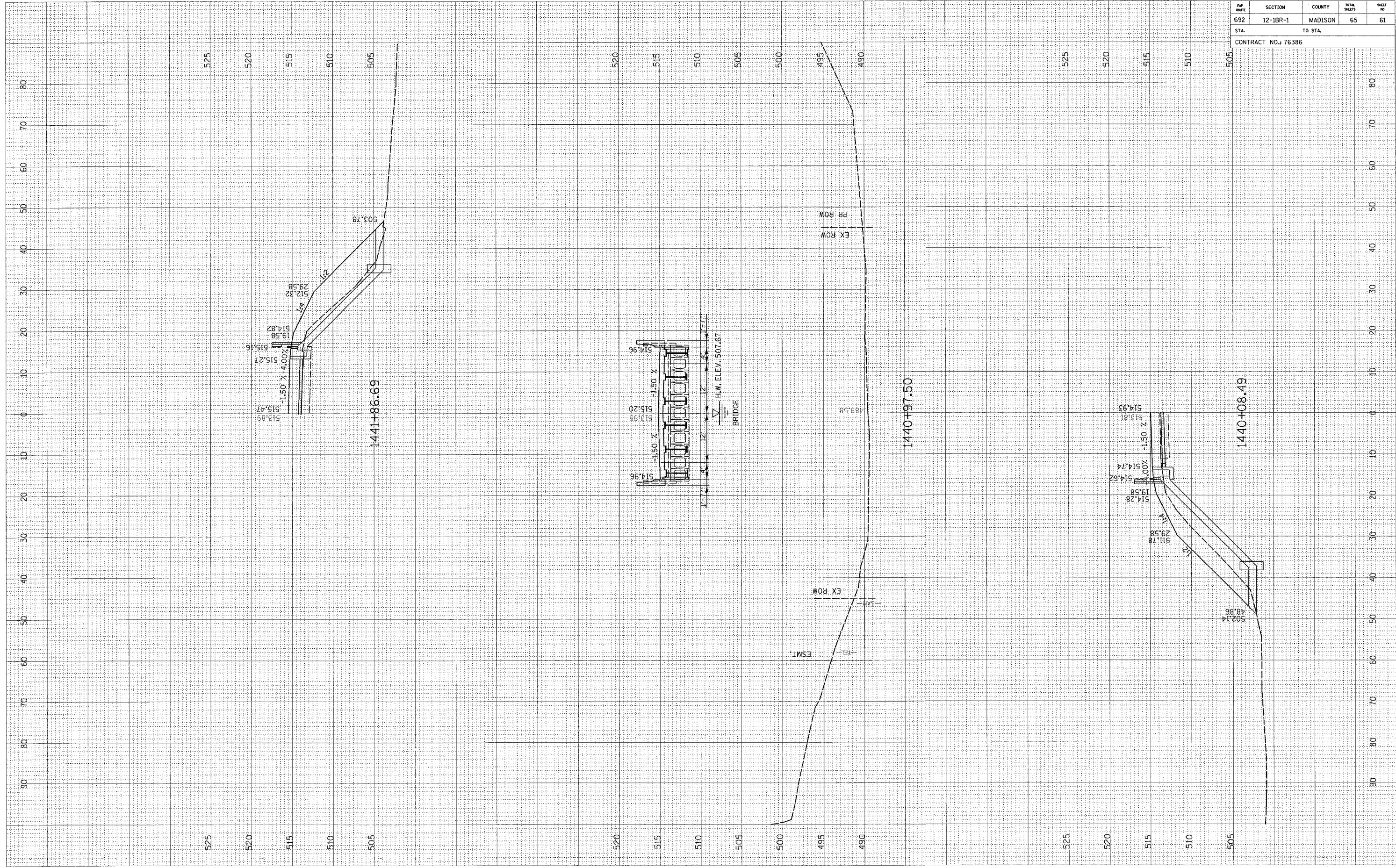


3/14/2005
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ORIGINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK
 AREA
 AREAS CHECKED

FINAL SURVEY
 SURVEY PLOTTED
 NOTE BOOK
 AREA
 AREAS CHECKED

BY _____ DATE _____



FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	61
STA. _____ TO STA. _____				

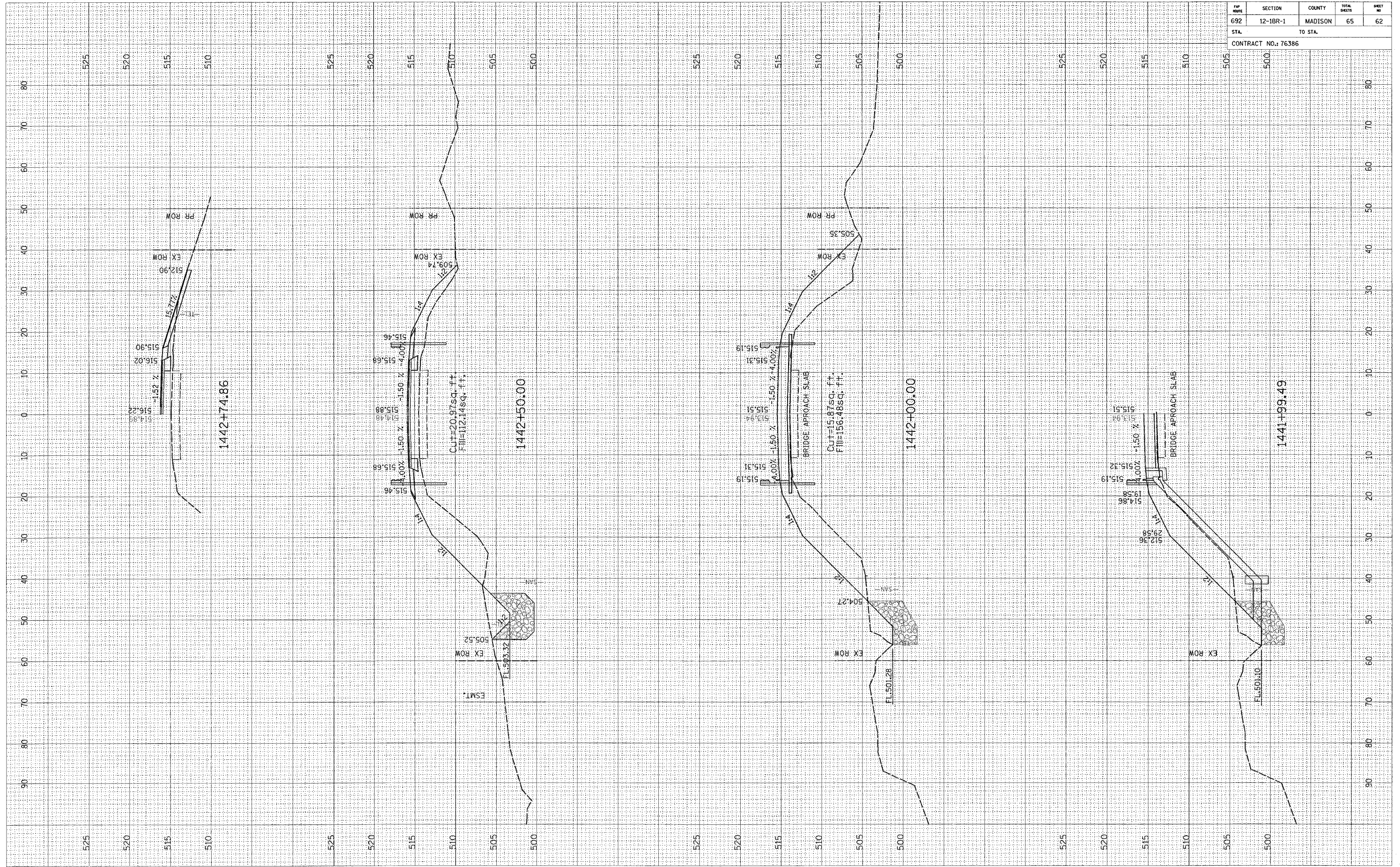
CONTRACT NO.: 76386

5/3/2005
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 on Project: \\s11520\plan\ss11520\pdr

ORIGINAL SURVEY
 SURVEYED
 PLATTED
 NOTE BOOK
 AREAS
 AREAS CHECKED
 NO.

FINAL SURVEY
 SURVEYED
 PLATTED
 NOTE BOOK
 AREAS
 AREAS CHECKED
 NO.

BY _____
 DATE _____



FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	62

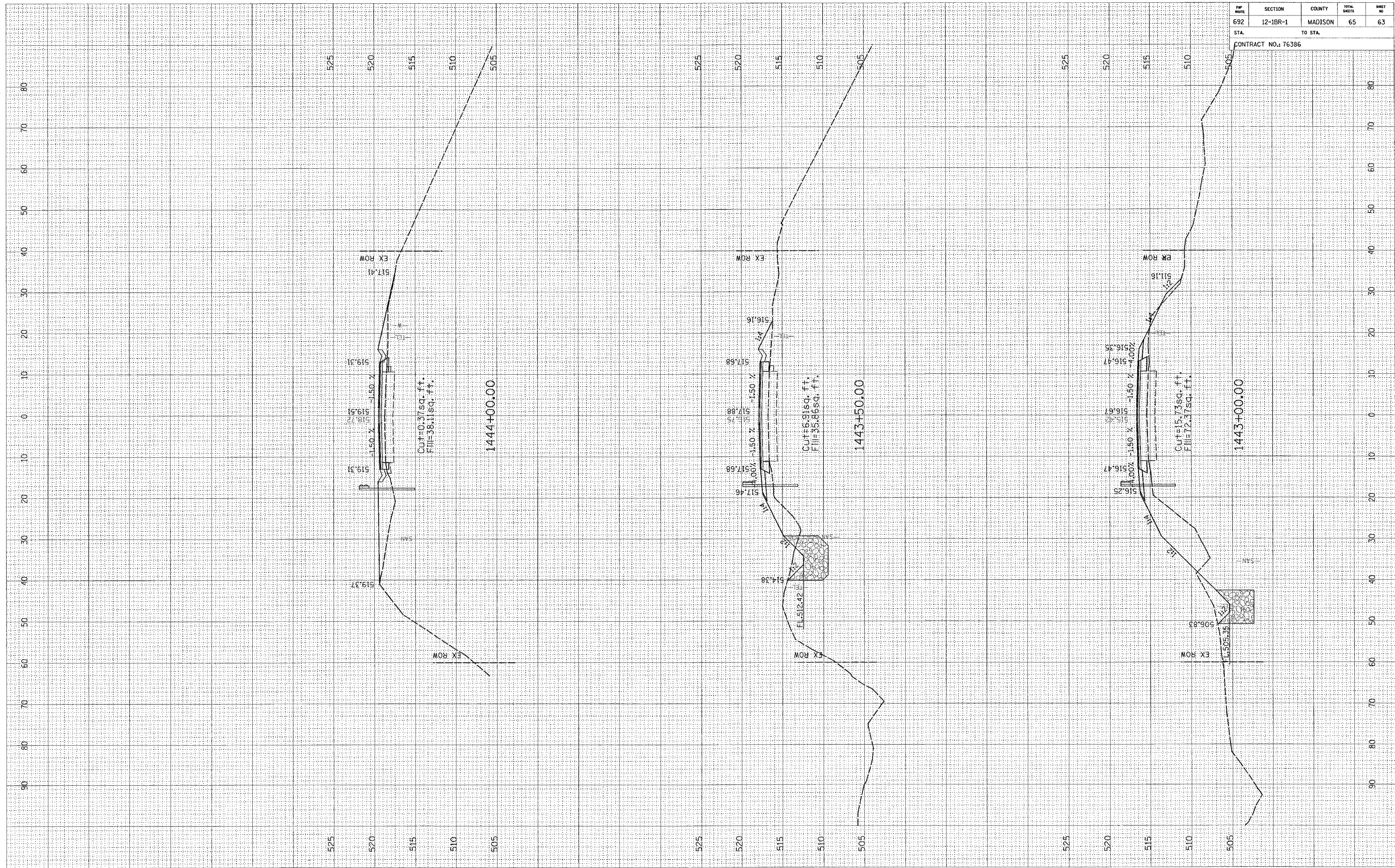
STA. _____ TO STA. _____

CONTRACT NO.: 76386

3/14/2005
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ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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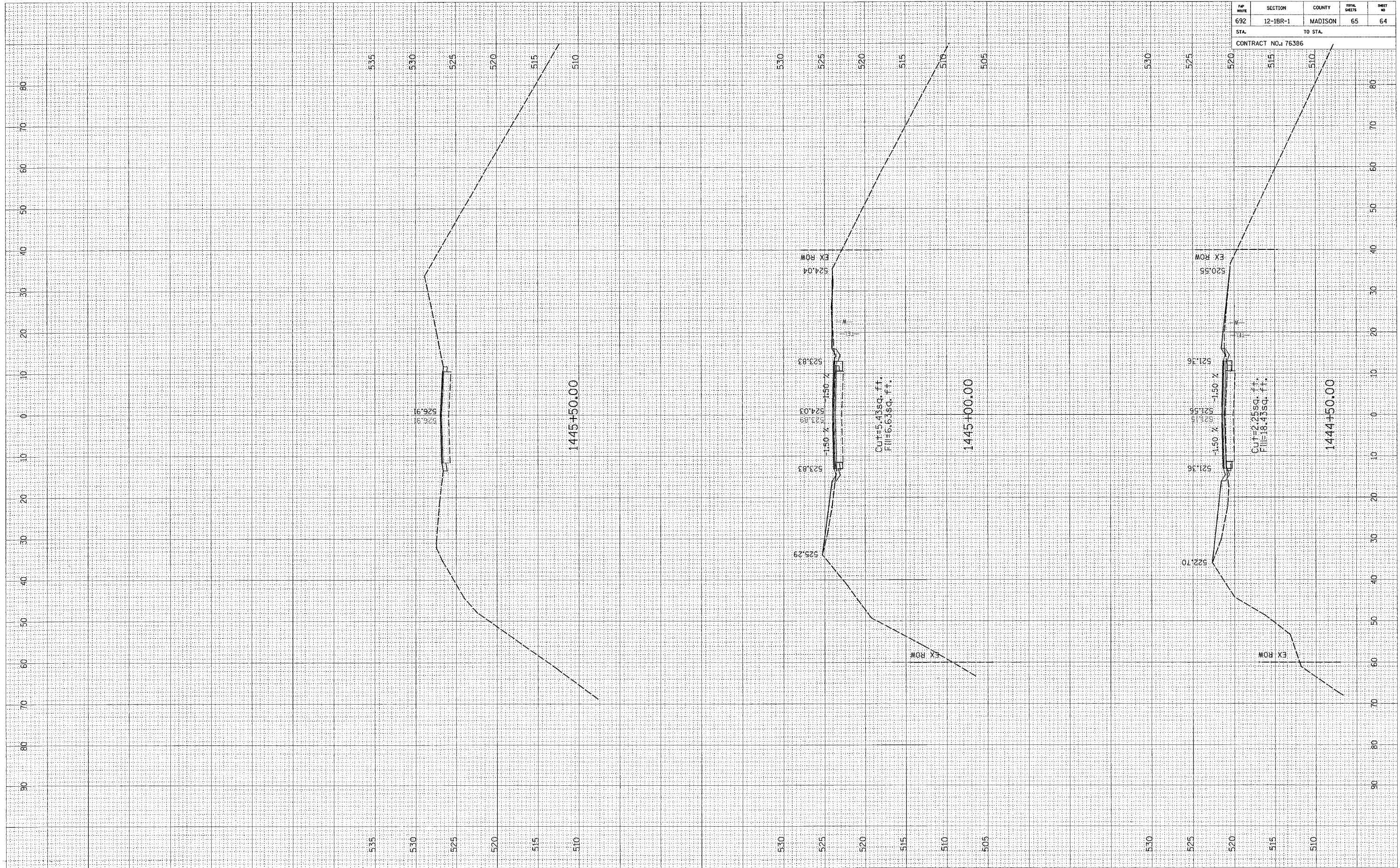
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692	12-1BR-1	MADISON	65	63
STA.		TO STA.		

CONTRACT NO.: 76386

3/14/2006
 Monday, March 14, 2006 @ 1:53:42 PM
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ORIGINAL SURVEY
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 TEMPLATE AREAS CHECKED

FINAL SURVEY
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 NOTE BOOK NO.: _____
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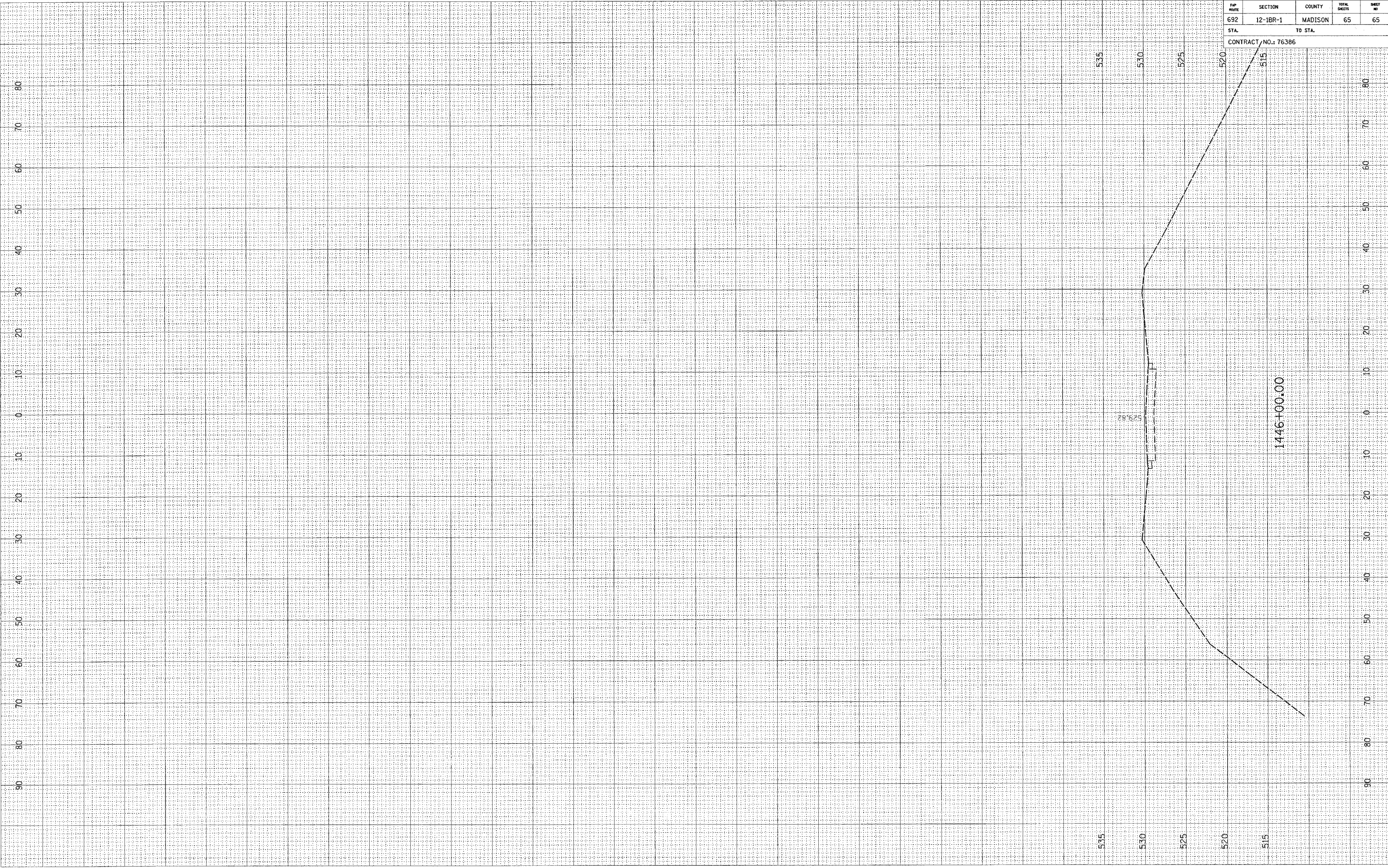
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
692	12-1BR-1	MADISON	65	64
STA. _____		TO STA. _____		

CONTRACT NO.: 76386

2/11/2006
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FINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED: _____

ORIGINAL SURVEY
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 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED: _____



FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
692	12-1BR-1	MADISON	65	65

STA. TO STA.

CONTRACT / NO.: 76386