

F.A.I./P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270/2	D-8 BRIDGE CLEANING 2010-1	MADISON	12	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76D45		

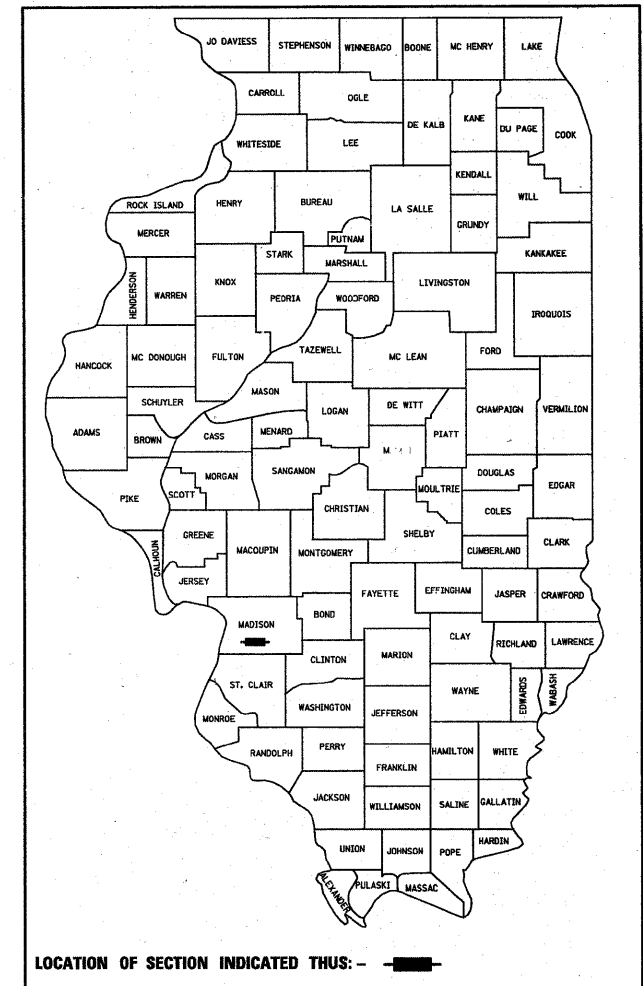
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

**FAIFAP ROUTE 270/2 (I-270/IL. 3)
SECTION D-8 BRIDGE CLEANING 2010-1
MADISON COUNTY
VARIOUS LOCATION BRIDGE CLEANING
C-98-008-10**

D-98-014-10



INDEX OF SHEETS

- 1 COVER SHEET
- 2 SOQ, GEN. NOTES, & LIST OF STANDARDS
- 3-5 LOCATION MAPS
- 6-12 EXISTING BRIDGE PLANS

Location 7
SN 060-0063
Sta. 967+65

Location 3
SN 060-0046 & 7
Sta. 401+45.00

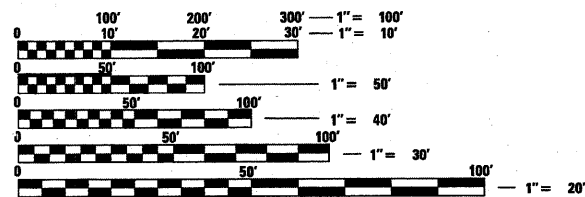
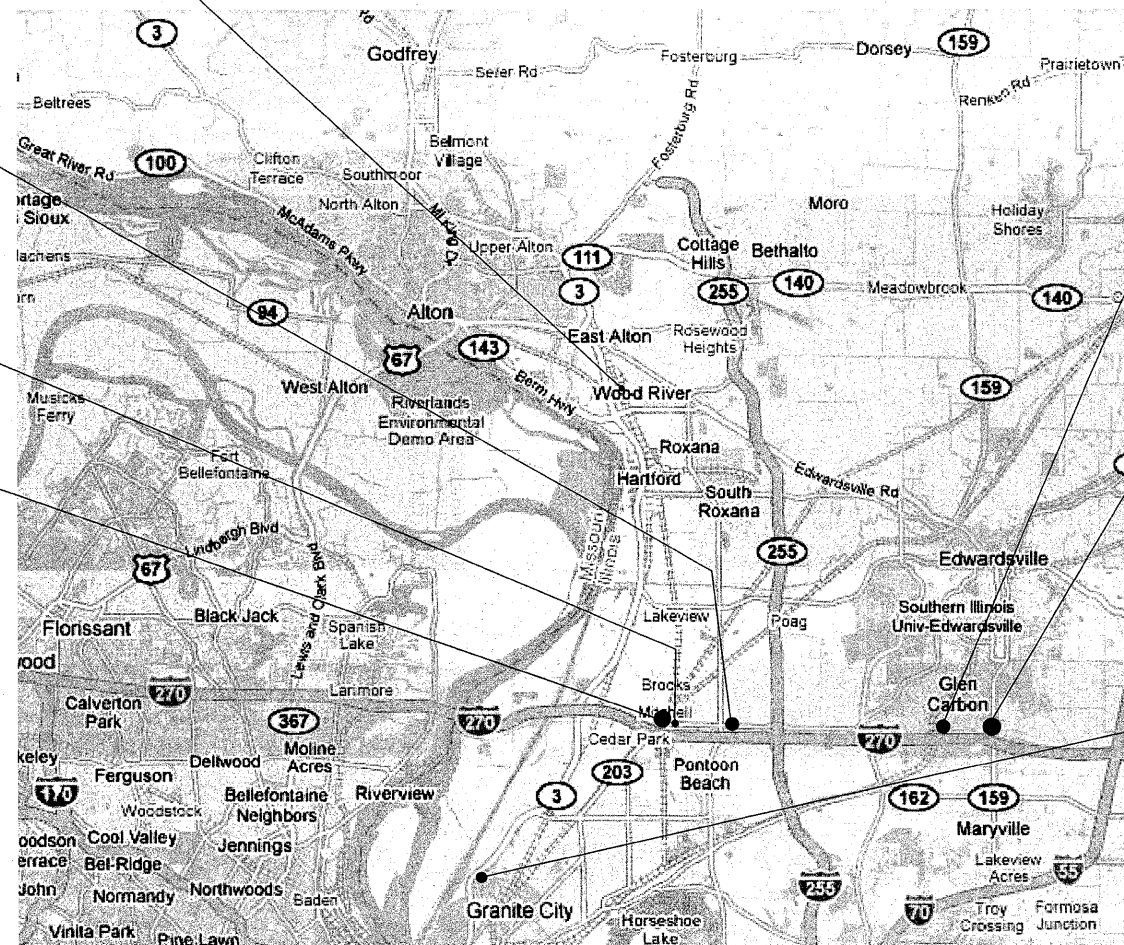
Location 2
SN 060-0044 & 5
Sta. 335+83.97

Location 1
SN 060-0042 & 3
Sta. 321+15.00

Location 4
SN 060-0051 & 2
Sta. 646+74.00

Location 5
SN 060-0320
Sta. 687+98.71

Location 6
SN 060-0202
Sta. 1658+55.18



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
OR 811

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

CONTRACT NO. 76D45

*See sheets 3-5 of 12 for detailed location maps of specific bridges.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 22 2009
My C. Adams
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

January 29, 2010
Scott E. Stott, P.E., M.D.
Acting ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2010
Christine M. Reed, M.D.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			URBAN SFY-2A TOTAL QUANTITIES	I-270				IL 3		
				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT		LOCATION 1 X571-MAIN 100% STATE SN 060-0042/3	LOCATION 2 X271-MAIN 100% STATE SN 060-0044/5	LOCATION 3 X271-MAIN 100% STATE SN 060-0046/7	LOCATION 4 X371-MAIN 100% STATE SN 060-0051/2	LOCATION 5 X081-MAIN 100% STATE SN 060-0320	LOCATION 6 X181-MAIN 100% STATE SN 060-0202	LOCATION 7 X171-MAIN 100% STATE SN 060-0063
50300300	PROTECTIVE COAT	SQ YD	33746	11549	4846	3182	2864	1699	6991	2615
58700300	CONCRETE SEALER	SQ FT	8793	3631	1431	1488	632	931	680	
59200101	BRIDGE WASHING NO. 1	EACH	1	1						
59200102	BRIDGE WASHING NO. 2	EACH	1	1						
59200103	BRIDGE WASHING NO. 3	EACH	1		1					
59200104	BRIDGE WASHING NO. 4	EACH	1		1					
59200105	BRIDGE WASHING NO. 5	EACH	1			1				
59200106	BRIDGE WASHING NO. 6	EACH	1			1				
59200107	BRIDGE WASHING NO. 7	EACH	1				1			
59200108	BRIDGE WASHING NO. 8	EACH	1				1			
59200109	BRIDGE WASHING NO. 9	EACH	1					1		
59200110	BRIDGE WASHING NO. 10	EACH	1						1	
59200111	BRIDGE WASHING NO. 11	EACH	1							1
67100100	MOBILIZATION	L SUM	1	0.14	0.14	0.14	0.14	0.14	0.15	0.15
70100309	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	EACH	2						1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	3	1		1		1		
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.2	0.2	0.2	0.2	0.2		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.25			0.25		0.25	0.25
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1	0.4	0.3	0.3	0.2	0.6	0.2

GENERAL NOTES:

1. FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS INCLUDING LUNCH HOUR AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE IN COLOR AND SKID MOUNTED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
3. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
4. THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
5. ANY TRAFFIC CONTROL NOT USED SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING OF WORK AND ORDERING OF MATERIALS.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE NO AREAS OUTSIDE OF THE JOB LIMITS ARE DISTURBED. ANY AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE AND NO OTHER COMPENSATION WILL BE PERMITTED.
8. PROTECTIVE COAT SHALL ONLY BE APPLIED TO CONCRETE SURFACES.
9. CONCRETE SEALER SHALL BE APPLIED TO BEARING SEATS UNDER JOINTS.

COMMITMENTS

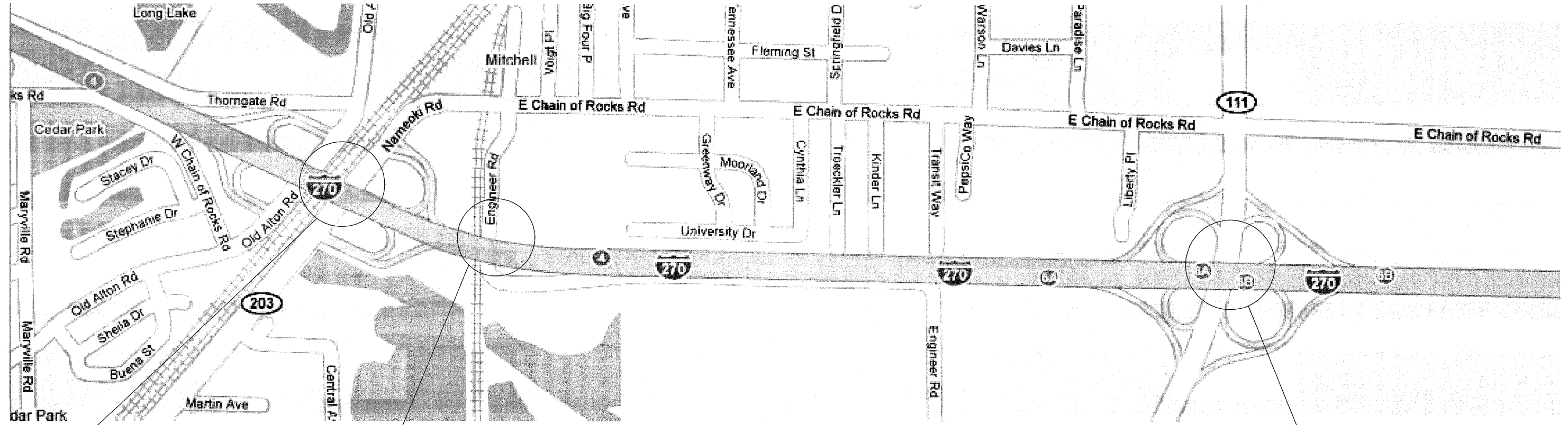
NONE

LIST OF STANDARDS

000001-05 701400-04 701406-05 701421-02
701901-01 780001-02 701411-06

FILE NAME =	USER NAME = manntm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOQ, GEN. NOTES, STDS.	DRAWN -	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	F.A.I./P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwidot\manntm\dms52470\p1n1207a.dgn		CHECKED -	REVISED -			270/2	D-8 BRIDGE CLEANING 2010-1	MADISON	12	2					
		DATE -	REVISED -			CONTRACT NO. 76045									
						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT									

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



1. SN 060-0042 & 43.
I-270 over IL 203
& RR

2. SN 060-0044 & 45. I-270 over Engineers Rd.

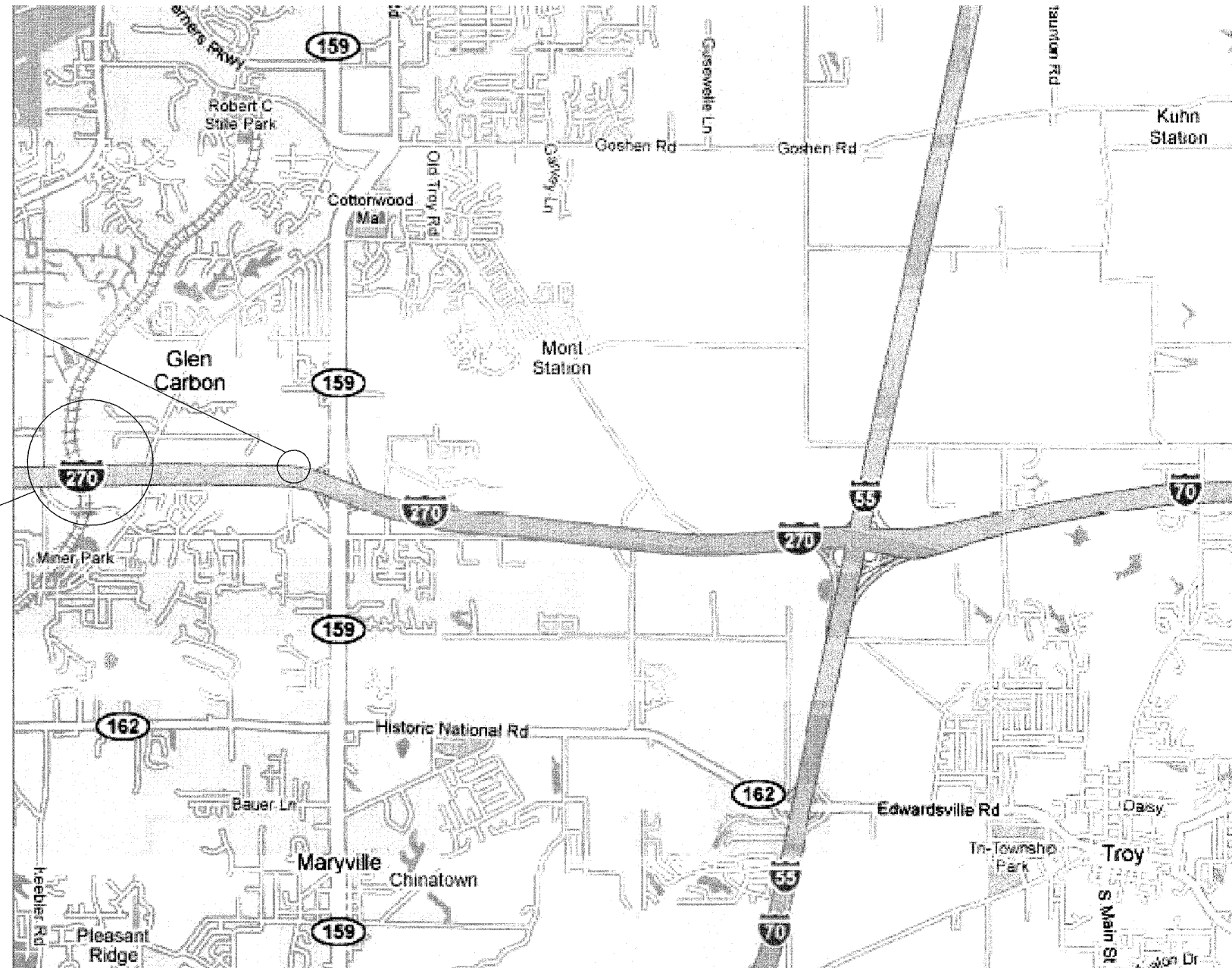
LOCATION MAP
(LOCATIONS 1, 2 & 3)

3. SN 060-0046 & 47. I-270 over IL 111

DESIGNED	AYV	March 5, 2010
CHECKED	JAU	EXAMINED
DRAWN	AYV	ENGINEER OF STRUCTURAL SERVICES
CHECKED	JAU	PASSED
		ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 1	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 10 SHEETS	FAI 270	D-8 Bridge Cleaning 2010-1	MADISON	12	3
			CONTRACT NO. 76D45		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



5. SN 060-0320. I-270 WB over Judy's Branch Creek

4. SN 060-0051 & 52. I-270 over CNW NW RR / STREAM

LOCATION MAP
(LOCATIONS 4 & 5)

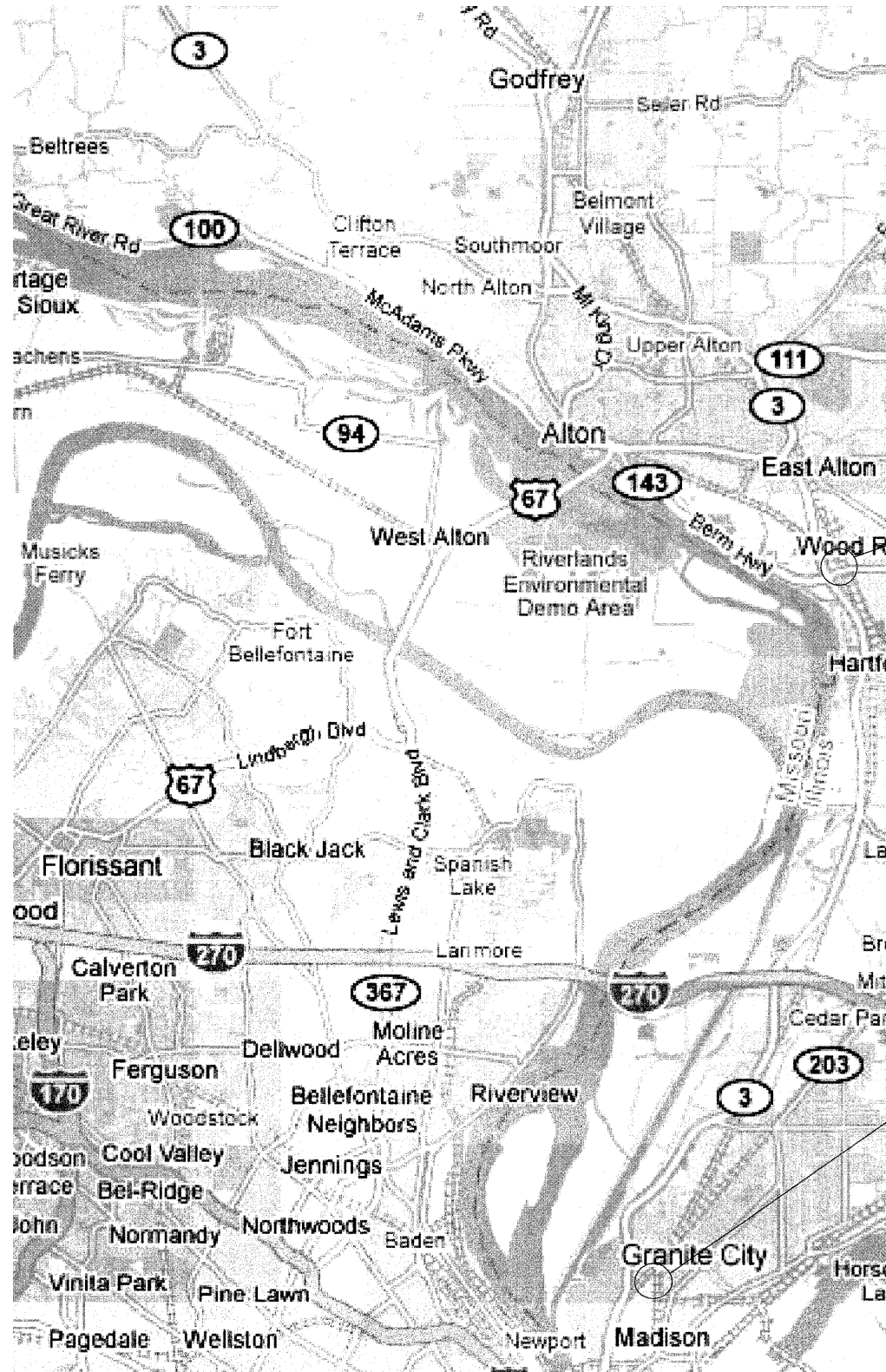
BRIDGE WASHING
SN 060-VARIOUS

DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

EXAMINED	March 5, 2010
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 2 OF 10 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FAI 270	D-8 Bridge Cleaning 2010-1	MADISON	12	4
	CONTRACT NO. 76D45				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



7. SN 060-0063. IL 3 over N & W RR

6. SN 060-0202. IL 3 over RR Yard

BRIDGE WASHING
SN 060-VARIOUS

LOCATION MAP
(LOCATIONS 6 & 7)

DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

	March 5, 2010
EXAMINED	
PASSED	

SHEET NO. 3 OF 10 SHEETS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	IL 3	D-8 Bridge Cleaning 2010-1	MADISON	12	5
	CONTRACT NO. 76D45				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

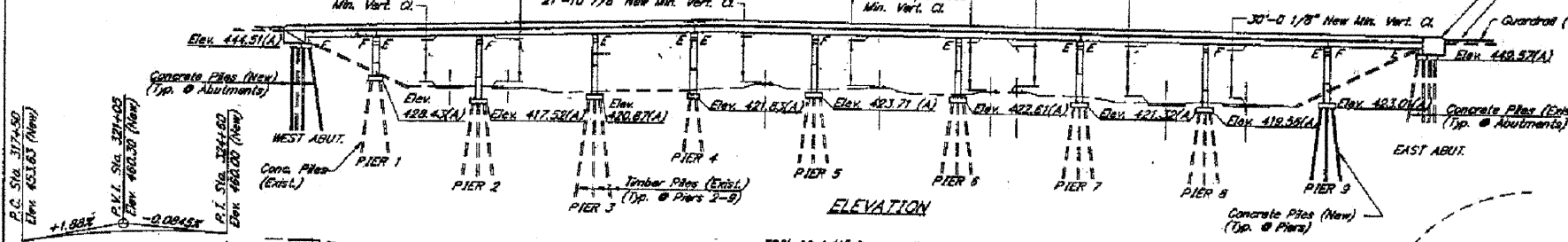
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY

FAI RT. NO.	SECTION	COUNTY	SHEET NUMBER	TOTAL SHEETS
270	D-8	MADISON	219	448

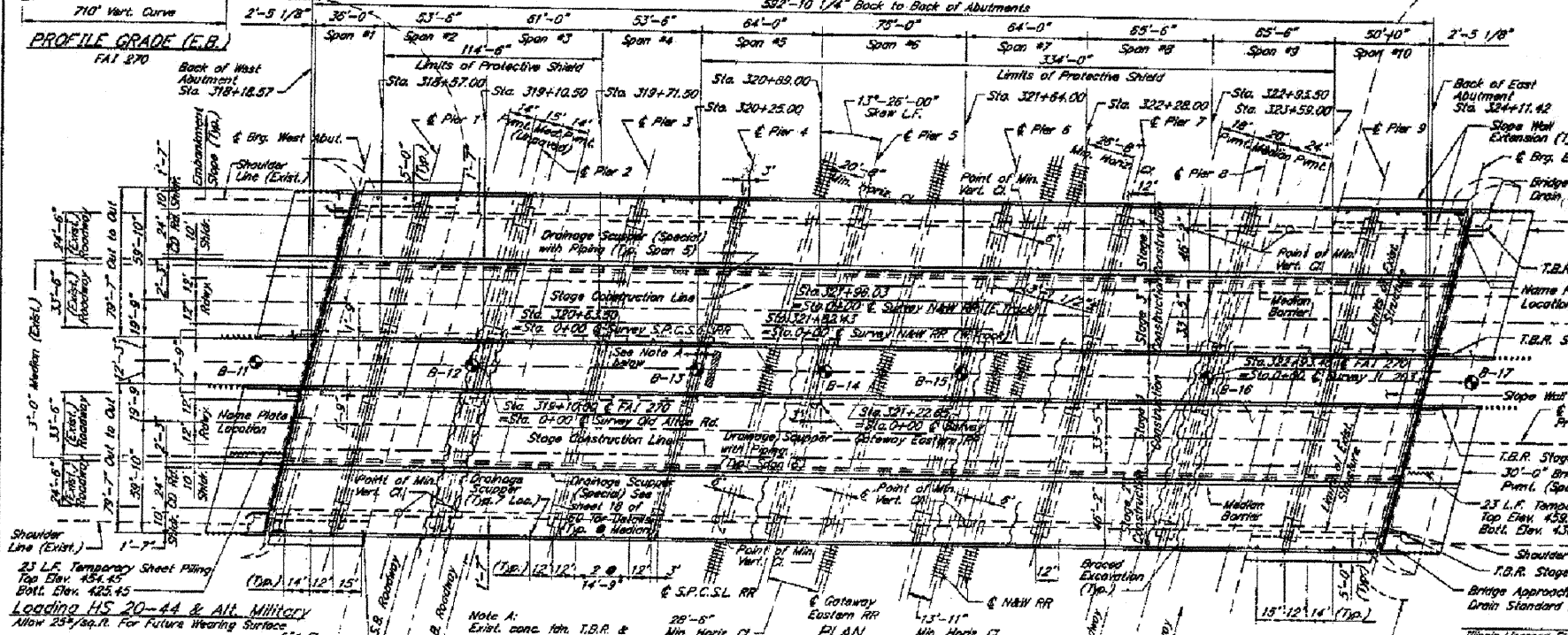
S.M. #11 Elev. 425.67 (DOT BK 1, PG 53) Northwest bolt on light base on East side of Old Alton Road at the Junction I-270 East. Light pole # 21.
T.B.M. - Alton-1 Elev. 428.51 Chiseled 1" Top of Center of E.B.L. Median Pier, Old Alton Road and I-270.
T.B.M. - 203-1 Elev. 429.96 Chiseled 1" Top of Center of Cross Wall E.B.L. Pier 8 or Rte. 203 Median Pier.
Existing Structures:
Sta. 321+15, F.A.I.-270, Sec. 80-314B & 60-314F S.W. 060-0042 E.B., 080-0043 W.B. Superstructure Spans 1 and 10 Simple Span Non-Composite W.F. Beams. Spans 2-4, 5-7 and 8-9 Continuous Non-Composite W.F. Beams.
Substructure 4-Column Trapezoidal Piers.
Elevations noted (X) have been adjusted from existing bridge drawings to match 1994 Survey Datum. These elevations are approximate only.



* P.G. ELEVATIONS

Bridge	Abut. or Pier	Stations	Elevations
Westbound	West Abut.	318+28.21	454.93
	Pier 1	318+24.84	455.30
	Pier 2	318+18.14	455.43
	Pier 3	318+12.14	457.59
	Pier 4	320+18.84	457.53
	Pier 5	320+06.84	458.59
	Pier 6	321+21.84	458.30
	Pier 7	322+35.84	458.39
	Pier 8	323+01.14	458.86
Eastbound	East Abut.	324+18.06	460.00
	Pier 1	324+10.93	454.72
	Pier 2	324+02.86	455.36
	Pier 3	324+02.86	456.18
	Pier 4	324+01.14	457.01
	Pier 5	324+17.36	457.88
	Pier 6	324+01.36	458.34
	Pier 7	324+20.36	458.41
	Pier 8	324+28.86	459.75
East Abut.	324+31.36	459.93	
East Abut.	324+23.78	460.00	

* Stations and Elevations given above are of Piers and Back of Abutments.
Note: See Sheet 2 of 60 for Bill of Material.



APPROVED
T.B. STRUCTURAL ENGINEER
R. J. Anderson
Tillack Licensed Structural Engineer No. 081-005174 Exp. Date 11-20-24

GENERAL PLAN & ELEVATION
F.A.I. RT 270-SEC. 80-314BY
OVER IL. RIE. 203, OLD ALTON RD. & R.R.
MADISON COUNTY
STA. 321+15.00
STRUCTURE NO. 000-0042 (E.B.)

DESIGN STRESSES
10 = 35,000 psi (New Point)
15 = 50,000 psi (New Point) 15 = 24,000 psi (New Point)
18 = 20,000 psi (Exist. Point)
19 = 27,000 psi (N270, Gr. 50)
20 = 20,000 psi (N270, Gr. 35)
25 = 18,000 psi (Exist. Beams)

DESIGN SPECIFICATIONS
AASHTO 1992, 1993, and 1994 Interims and Seismic
Rebuild per FHWA Report No. FHWA/RD-83/1007

Note: This drawing is not to scale. Follow dimensions.

DESIGNED AYV
CHECKED JAU
DRAWN AYV
CHECKED JAU

March 5, 2010

EXAMINED
ENGINEER OF STRUCTURAL SERVICES

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

CONTRACT NO. 76D45

SHEET NO. 4 OF 10 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FAI 270	D-8 Bridge Cleaning 2010-1	MADISON	12	6
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 76D45					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

B.M. - 27 Elev. 424.14 (DOT B.M., PG. 42 Point Mark on Conc. Base of NW Corner Fence Post of Fence, W. of Operating Engineers Bldg., S. of 1270.
T.B.M. - Elev. 453.53 Chiseled \square Top NE corner Concrete Guardrail E.B.L. 1270 Bridge over Engineer Road.
Existing Structure:
Tie to $\&$ FAI 270 Sta. 335+33.21 Sec. 60-316 & 60-317 Elev. 444.99 (A)
Built in 1962. Structure No. 060-0044 EB, 60-0045 WB
Superstructure 3 Units - Unit 1 39'-6" Simple Span,
Unit 2 20'-4" 7/8" Cantilever + 13'-1" 15/16" Span
+ 20'-4" 7/8" Cantilever Continuous over Piers - Unit 3
65'-7 1/16" Simple Span; All Non-Composite.
Substructure 4 Column Trapezoidal Piers.
Superstructure to be completely Removed, New Plate Girders Installed, and Structure widened, Traffic to be Maintained Utilizing Stage Construction.
Elevations noted (A) have been adjusted from existing bridge drawings to match 1994 Survey Datum. These elevations are approximate only.

STATION 335+83.97
REBUILT 1994 BY
STATE OF ILLINOIS
F.A.I. 270 SEC. 60-316Y
PROJECT NO. ACIM-ACBIL-270-6(R)2.0
LOADING HS20 & ALT.
STR. NO. 060-0044

NAME PLATE
(Eastbound lanes)
See Std. 211.3
Note: Existing name plate shall be cleaned and relocated next to the new Name Plate. Cost incidental to "Name Plates".
-0.46028

PROFILE GRADE
(Along $\&$ Eastbound Roadway)
Sta. 334+00.00 Elevation 455.35
Sta. 337+25.00 Elevation 455.62

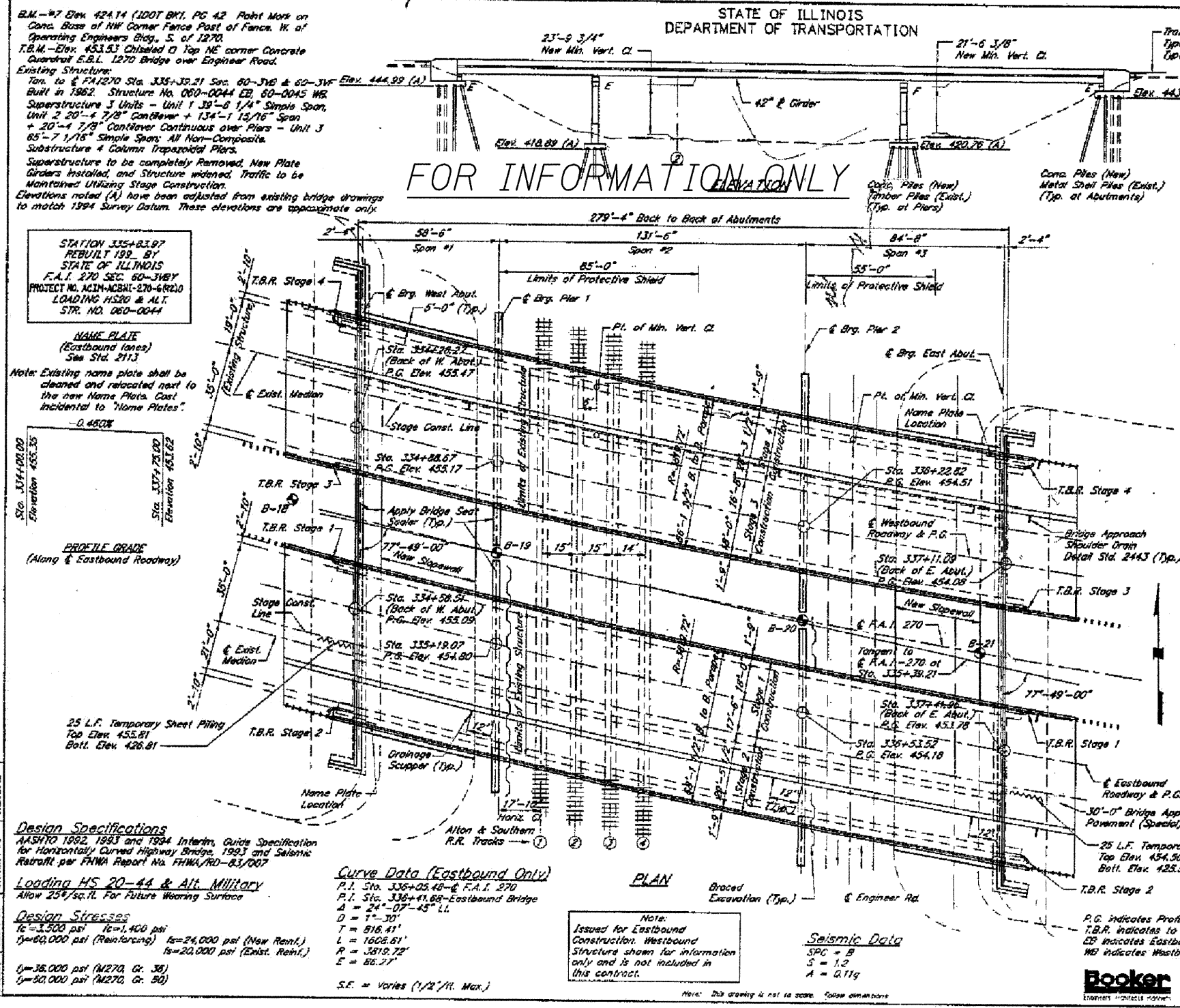
Design Specifications
AASHTO 1992, 1993 and 1994 Interim Guide Specification for Horizontally Curved Highway Bridge, 1993 and Salonic Retrofit per FHWA Report No. FHWA/RD-83/007
Loading HS 20-44 & Alt. Military
Allow 25% sq. ft. For Future Wearing Surface
Design Stresses
fc = 3,500 psi (c=1,400 psi)
fr = 60,000 psi (Reinforcing) (s=24,000 psi (New Reinf.))
fs = 36,000 psi (A270 Gr. 36)
ft = 50,000 psi (A270 Gr. 50)

Curve Data (Eastbound Only)
P.I. Sta. 336+05.48 - $\&$ F.A.I. 270
P.I. Sta. 336+41.88 - Eastbound Bridge
 $\Delta = 24^{\circ} 07' 45''$ L.L.
D = 1'-30"
T = 816.41'
L = 1606.61'
P = 3819.72'
E = 86.27'
S.E. = varies (1/2" ft. Max.)

Note:
Issued for Eastbound Construction. Westbound Structure shown for information only and is not included in this contract.

Seismic Data
SPC = B
S = 1.2
A = 0.11g

FOR INFORMATION ONLY

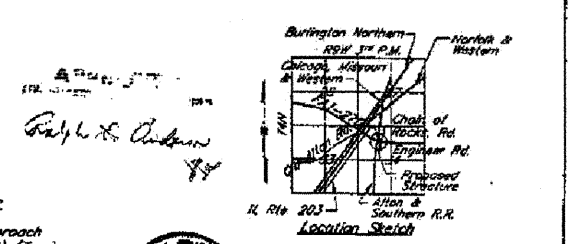


F.A.I. RT. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	D-8 BRIDGE	MADISON	272	448
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL (Eastbound only)

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	-	84.8	84.8
Protective Shield	Sq. Yd.	885	-	885
Removal of Existing Superstructure	Each	1	-	1
Structure Excavation	Cu. Yd.	-	555	555
Brood Excavation	Cu. Yd.	-	273	273
Membrane Expansion Joint 2 1/2"	Foot	88	-	88
Preformed Joint Spool 4"	Foot	64	-	64
Concrete Superstructure	Cu. Yd.	588.3	-	588.3
Concrete Structures	Cu. Yd.	-	539.9	539.9
Protective Goot	Sq. Yd.	462	-	462
Elastomeric Bearing Assembly Type I	Each	9	-	9
Elast. Brg. Assm. Type I (Special)	Each	9	-	9
Elastomeric Bearing Assembly Type III	Each	9	-	9
Structural Steel	L.S.	1	-	1
Stud Shear Connectors	Each	5,805	-	5,805
Reinforcement Bars, Epoxy Coated	Pounds	162,590	84,650	247,240
Furnishing Concrete Piles	Foot	-	3,960	3,960
Driving Concrete Piles	Foot	-	3,960	3,960
Test Concrete Piles	Each	-	2	2
Temporary Sheet Piling	Sq. Ft.	-	1450	1450
Name Plates	Each	1	-	1
Drainage Scaupers	Each	3	-	3
Stage Wall (4")	Sq. Yd.	-	653	653
Stage Wall Slurry Pumping	Cu. Yd.	-	13	13
Stage Wall Removal	Sq. Yd.	-	52	52
Bridge Seat Sealer	Sq. Ft.	-	910	910
Bridge Deck Grooving	Sq. Yd.	-	1964	1964
Formed Concrete Repair (Depth=3")	Sq. Ft.	-	222	222
Bitum. Conc. Surf. Removal (Asbestos)	Sq. Yd.	-	614	614
Bar Splicers	Each	2,090	36	2,146

* Quantity Includes Top and Inside Surfaces of Parapets and Median Barrier Only.



25 L.F. Temporary Sheet Piling
Top Elev. 434.50
Bott. Elev. 425.50

30'-0" Bridge Approach Pavement (Special) (Typ.)

T.B.R. Stage 2

GENERAL PLAN & ELEVATION
F.A.I. RT 270-SEC. 60-316Y
OVER ENGINEER RD. & R.R.
MADISON COUNTY
STA. 335+83.97
STRUCTURE NO. 060-0044 (E.B.)

DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

EXAMINED	March 5, 2010
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 5 OF 10 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FAI 270	D-8 Bridge Cleaning 2010-1	MADISON	12	7
			CONTRACT NO. 76D45		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
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FOR INFORMATION ONLY

F.A.I. NO.	SECTION	COUNT	SHEET NO.	TOTAL SHEETS
270	D-8 BRIDGE	1	306	448

R.M. - #2 Elev. 434.52 BKT, PG 51 Chiselled to S side of steel light pole foundation plate, Pole #MM-6, Sta. 408+51 left (I-270).
T.B.M. - #1 Elev. 426.99 Chiselled to top N. Gravel Pit 2 E.B. I-270.
#2 Elev. 444.43 Chiselled to top N.E. corner of conc. curb E.B. Rt. 111

Existing Structure:
Sta. 401+45.00 F.A.I. 270, Sec. 60-34B-1 & 60-34B-1
Built in 1962, Structure No. 080-0045 E.B., 080-0047 W.B.
Superstructure Spans 1 and 4 Simple Span Non-Composite
WF Beams and Spans 2 and 3 Continuous Non-Composite WF Beams
Substructure 3-Column Trapezoidal Piers.

Elevations noted (A) have been adjusted from existing bridge drawings to match 1994 Survey Datum. These elevations are approximate only.

STATION 401+45.00
REBUILT 1992 BY
STATE OF ILLINOIS
F.A.I. 270 SEC. 60-34BY-1
PROJECT NO. ADM-AGBT-270-6(91)0
LOADING HS20 & ALT.
STR. NO. 060-0046

NAME PLATE
(Eastbound lanes)
See Std. 2113

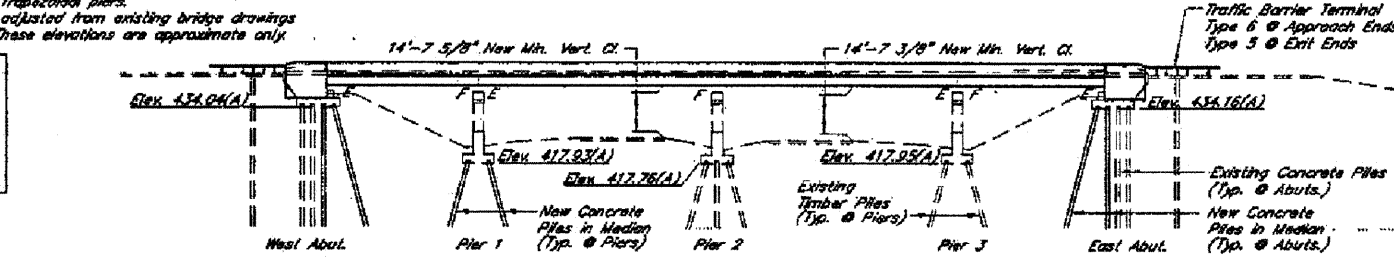
Note: Existing Eastbound name plate shall be cleaned and relocated next to the New Name Plate. Cost incidental to "Name Plates".

Design Specifications
AASHTO 1992, 1993 and 1994 Interims and Seismic
Retrait per FHWA Report No. FHWA/RD-83/007

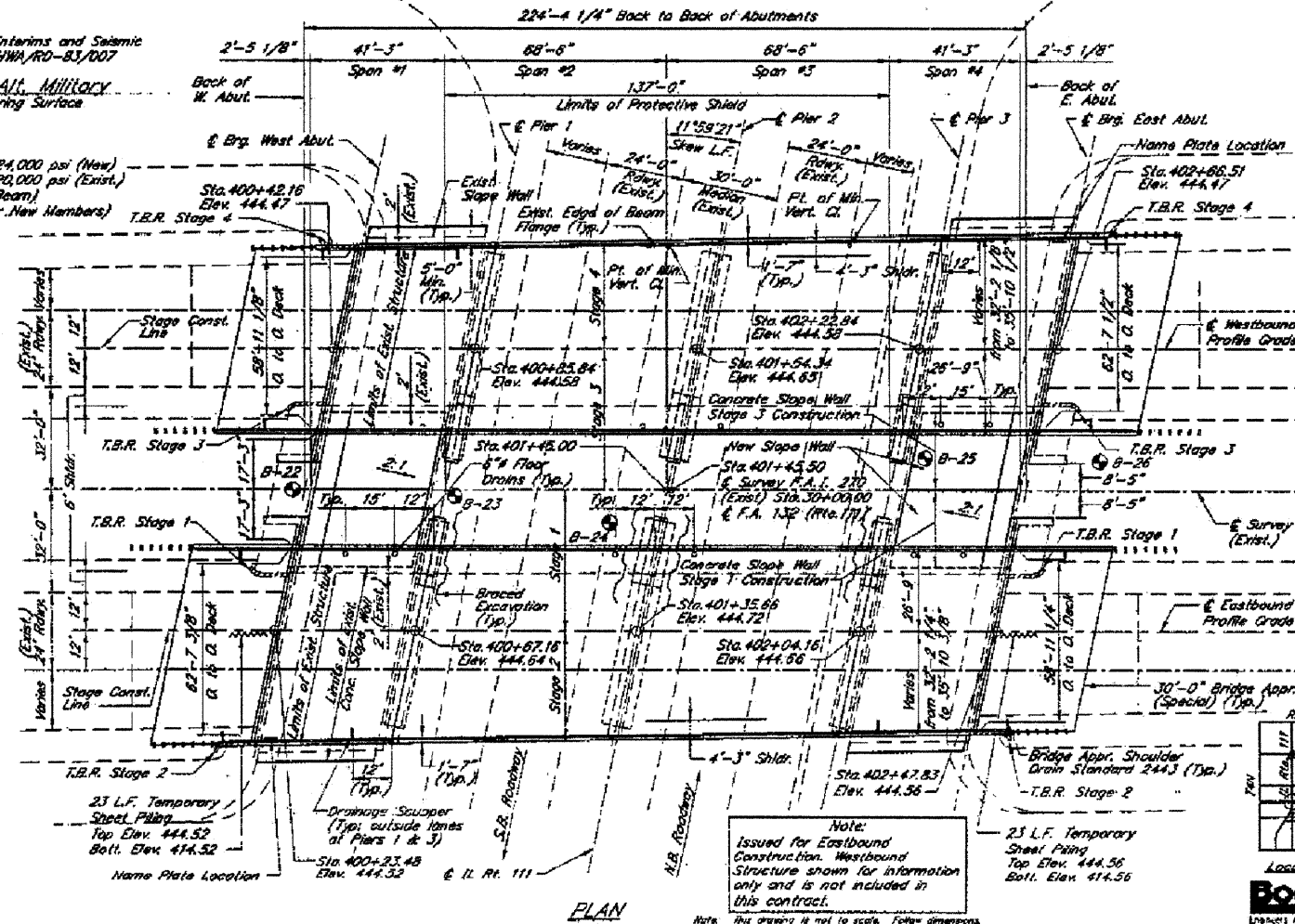
Loading HS 20-44 & Alt. Military
Allow 25% sq.ft. For Future Wearing Surface

Design Stresses
fc=3500 psi (New)
fc=60,000 psi (Reinforcing)
fs=24,000 psi (New)
fs=20,000 psi (Exist.)
fs=27,000 psi (Struct.-New W. Beam)
fs=20,000 psi (Struct.-All Other New Members)
fs=18,000 psi (Struct.-Exist.)

Seismic Data
SPC = B
A = 0.11g
S = 1.5



ELEVATION

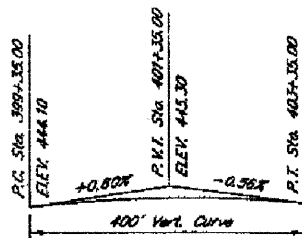


PLAN

BILL OF MATERIAL (Eastbound only)

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	-	69	69
Protective Shield	Sq. Yd.	789	-	789
Removal of Existing Concrete Deck	Each	1	-	1
Structure Excavation	Cu. Yd.	-	187	187
Braced Excavation	Cu. Yd.	-	203	203
Floor Drains	Each	6	-	6
Performed Joint Seal 2 1/2"	Foot	247	-	247
Concrete Superstructure	Cu. Yd.	368.3	-	368.3
Concrete Structures	Cu. Yd.	-	320.5	320.5
Protective Coat	Sq. Yd.	182	-	182
Elastomeric Bearing Assembly Type 1	Each	40	-	40
Structural Steel	L.S.	1	-	1
Stud Shear Connectors	Each	4716	-	4716
Cleaning and Painting Steel Bridge	L.S.	1	-	1
Reinforcement Bars, Epoxy Coated	Pounds	100,240	55,230	155,470
Furnishing Concrete Piles	Foot	-	1632	1632
Driving Concrete Piles	Foot	-	1632	1632
Test Pile Concrete	Each	-	3	3
Temporary Sheet Piling	Sq. Ft.	-	1380	1380
Name Plates	Each	1	-	1
Drainage Scaupers	Each	2	-	2
Jack and Remove Existing Bearings	Each	63	-	63
Slope Walls (4')	Sq. Yd.	-	250	250
Slope Wall Removal	Sq. Yd.	-	20	20
Bridge Seal Sealer	Sq. Ft.	-	773	773
Bridge Deck Grooving	Sq. Yd.	1413	-	1413
Formed Concrete Repair (Depth=6")	Sq. Ft.	-	36	36
Power Tool Cleaning Residue Cont. & Disposal	L.S.	1	-	1
Bar Splicers	Each	804	21	825

* Quantity includes top and insides of parapets only.



PROFILE GRADE
(Along E Eastbound Roadway)



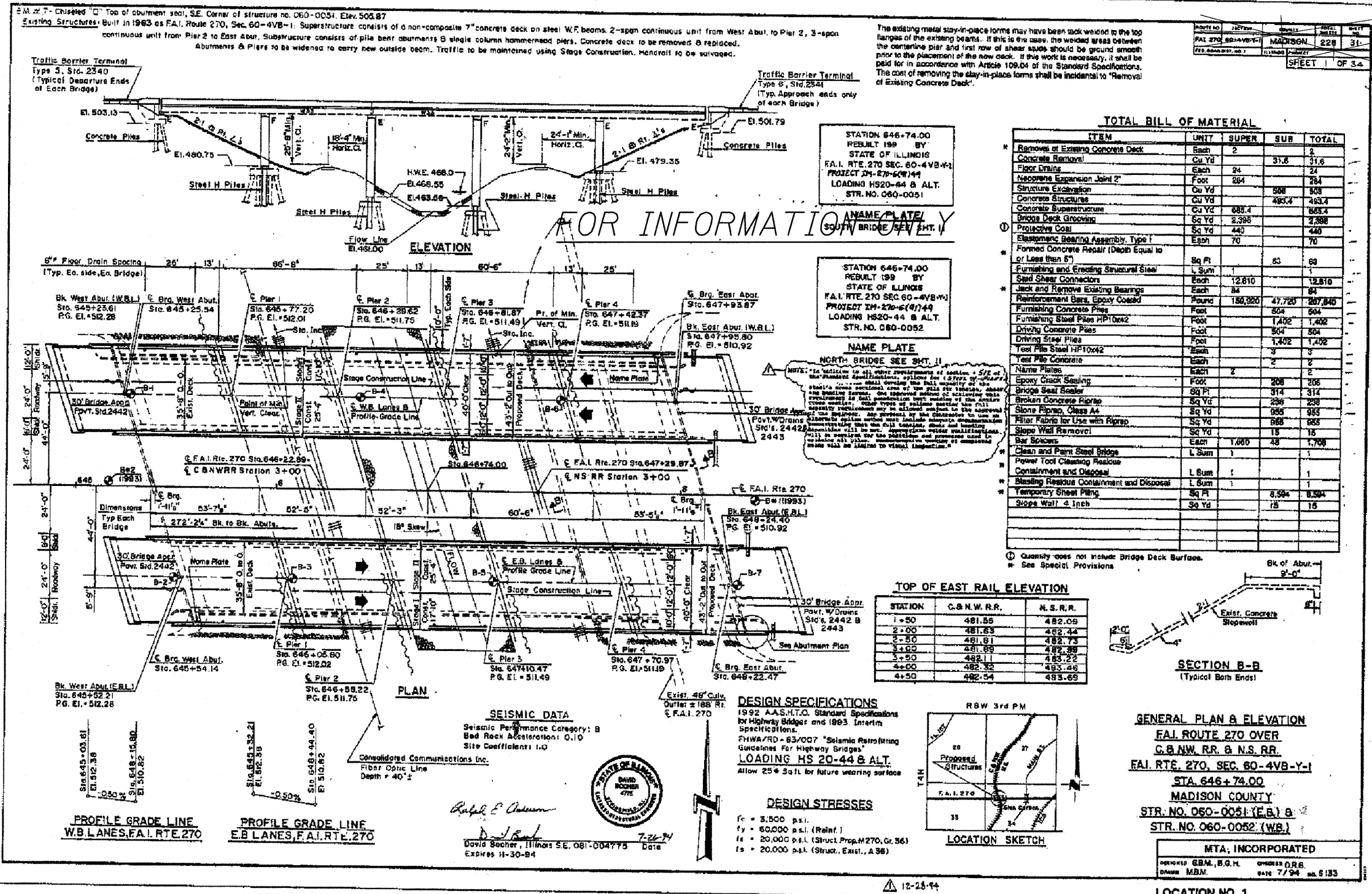
R. E. Anderson
Illinois Licensed Structural Engineer No. 081-005174
Exp. Date 11-30-96

GENERAL PLAN & ELEVATION
F.A.I. RT 270-SEC. 60-34BY-1
OVER ILL. RTE. 111
MADISON COUNTY
STA. 401+45.00
STRUCTURE NO. 060-0046 (E.B.)

DESIGNED	AYV	March 5, 2018
CHECKED	JAU	EXAMINED
DRAWN	AYV	PASSED
CHECKED	JAU	ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 6	F.A.I. RTE. 270	SECTION D-8 Bridge Cleaning 2010-1	COUNTY MADISON	TOTAL SHEETS 12	SHEET NO. 8
OF 10 SHEETS			CONTRACT NO. 76D45		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

March 5, 2012
EXAMINED
PASSED
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

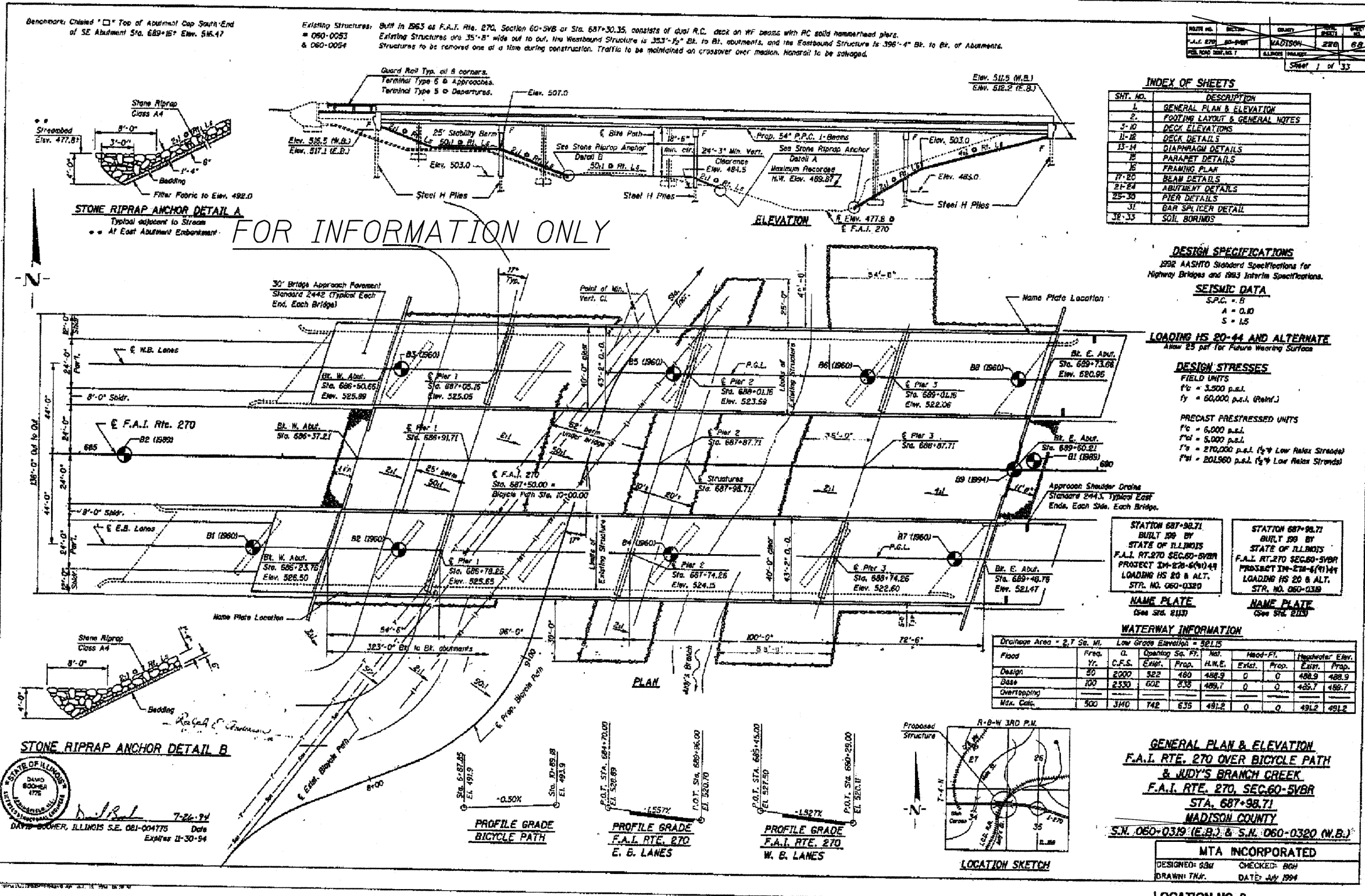
SHEET NO. 7 OF 10 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	270	D-8 Bridge Cleaning 2010-1	MADISON	12	9
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		

MTA, INCORPORATED
DESIGNED G.B.M., B.G.H. DRAWN M.B.M. DATE 7/94 NO. 8183

12-25-94

LOCATION NO. 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 270	D-8 BRIDGE	MADISON	12	62
FED. ROAD DIST. NO.	ILLINOIS PROJECT			

Sheet 1 of 33

INDEX OF SHEETS

SHT. NO.	DESCRIPTION
1	GENERAL PLAN & ELEVATION
2	FOOTING LAYOUT & GENERAL NOTES
3-10	DECK ELEVATIONS
11-12	DECK DETAILS
13-14	DIAPHRAGM DETAILS
15	PARAPET DETAILS
16	FRAMING PLAN
17-20	BEAM DETAILS
21-24	ABUTMENT DETAILS
25-30	PIER DETAILS
31	BAR SPICER DETAIL
32-33	SOIL BORINGS

DESIGN SPECIFICATIONS
1992 AASHTO Standard Specifications for Highway Bridges and 1993 Interim Specifications.

SEISMIC DATA
S.P.C. = B
A = 0.10
S = 15

LOADING HS 20-44 AND ALTERNATE
Allow 25 psi for Future Wearing Surface

DESIGN STRESSES
FIELD UNITS
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (Reinf.)
PRECAST PRESTRESSED UNITS
f_c = 6,000 p.s.i.
f_{ps} = 5,000 p.s.i.
f_c = 270,000 p.s.i. (1/2" Low Relax Strand)
f_{ps} = 201,960 p.s.i. (1/2" Low Relax Strand)

STATION 687+92.71
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 270 SEC. 60-5VBR
PROJECT IM-270-6(1)144
LOADING HS 20 & ALT.
STR. NO. 060-0320

NAME PLATE
(See Sta. 2137)

STATION 687+92.71
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 270 SEC. 60-5VBR
PROJECT IM-270-6(1)144
LOADING HS 20 & ALT.
STR. NO. 060-0320

NAME PLATE
(See Sta. 2137)

WATERWAY INFORMATION

Drainage Area = 2.7 Sq. Mi. Low Grade Elevation = 321.75

Flood	Freq. Yr.	C.F.S.	Depth	Opnng Sq. Ft.	H.W.E.	Head-Fl.		Highwater Elev.
						Exct.	Prop.	
Design	50	2000	522	480	488.9	0	0	488.9
Base	100	2530	602	232	489.7	0	0	489.7
Overtopping								
Mix. Calc.	500	3400	742	632	491.2	0	0	491.2

GENERAL PLAN & ELEVATION
F.A.I. RTE. 270 OVER BICYCLE PATH
& JUDY'S BRANCH CREEK
F.A.I. RTE. 270, SEC. 60-5VBR
STA. 687+92.71
MADISON COUNTY
S.N. 060-0319 (E.B.) & S.N. 060-0320 (W.B.)

MTA INCORPORATED
DESIGNED: BSM CHECKED: BSM
DRAWN: THJ DATE: JUN 1994

LOCATION NO. 2

DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

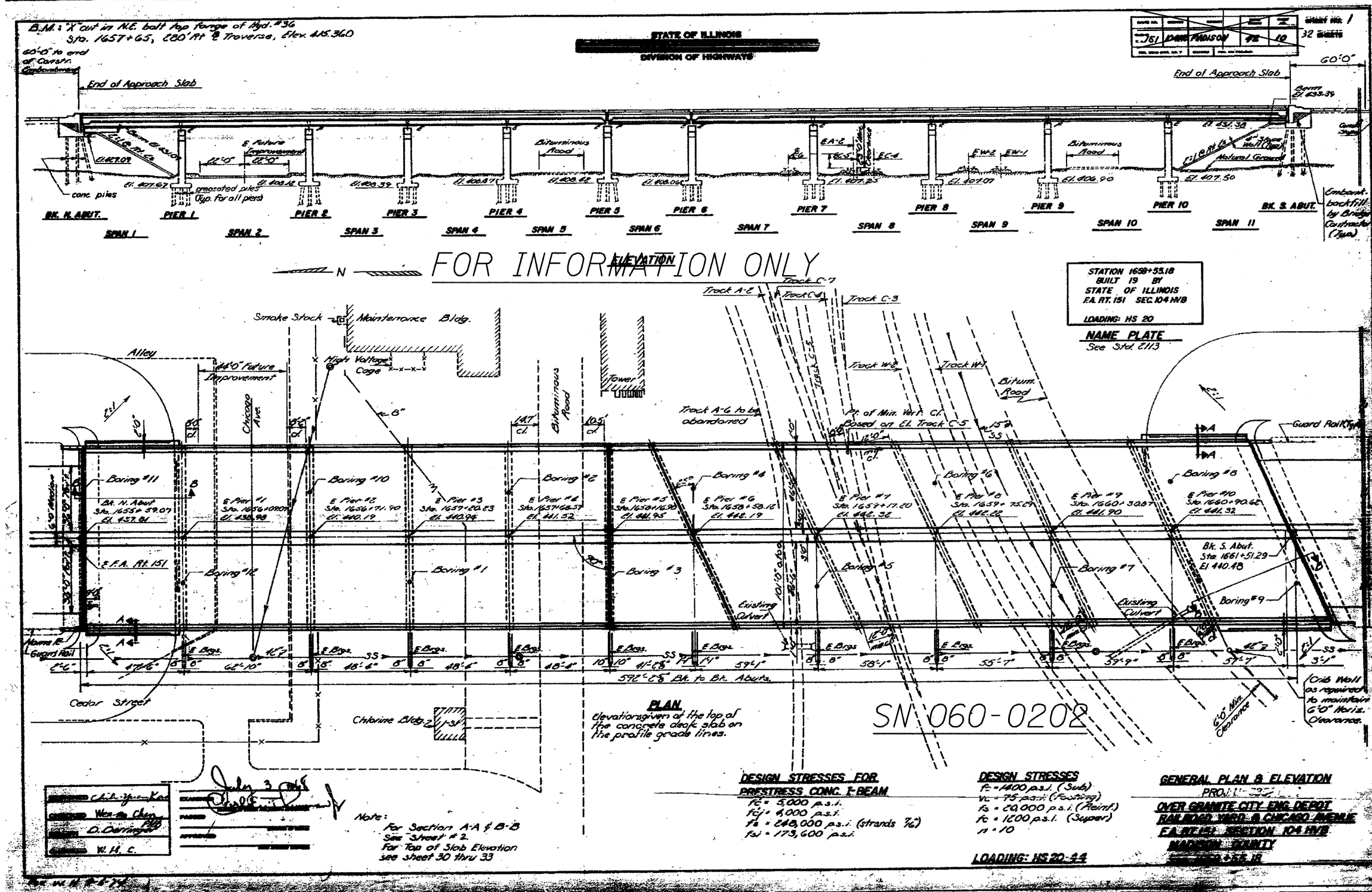
March 5, 2010

EXAMINED
ENGINEER OF STRUCTURAL SERVICES

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 8 OF 10 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	270	D-8 Bridge Cleaning 2010-1	MADISON	12	10
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76D45					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

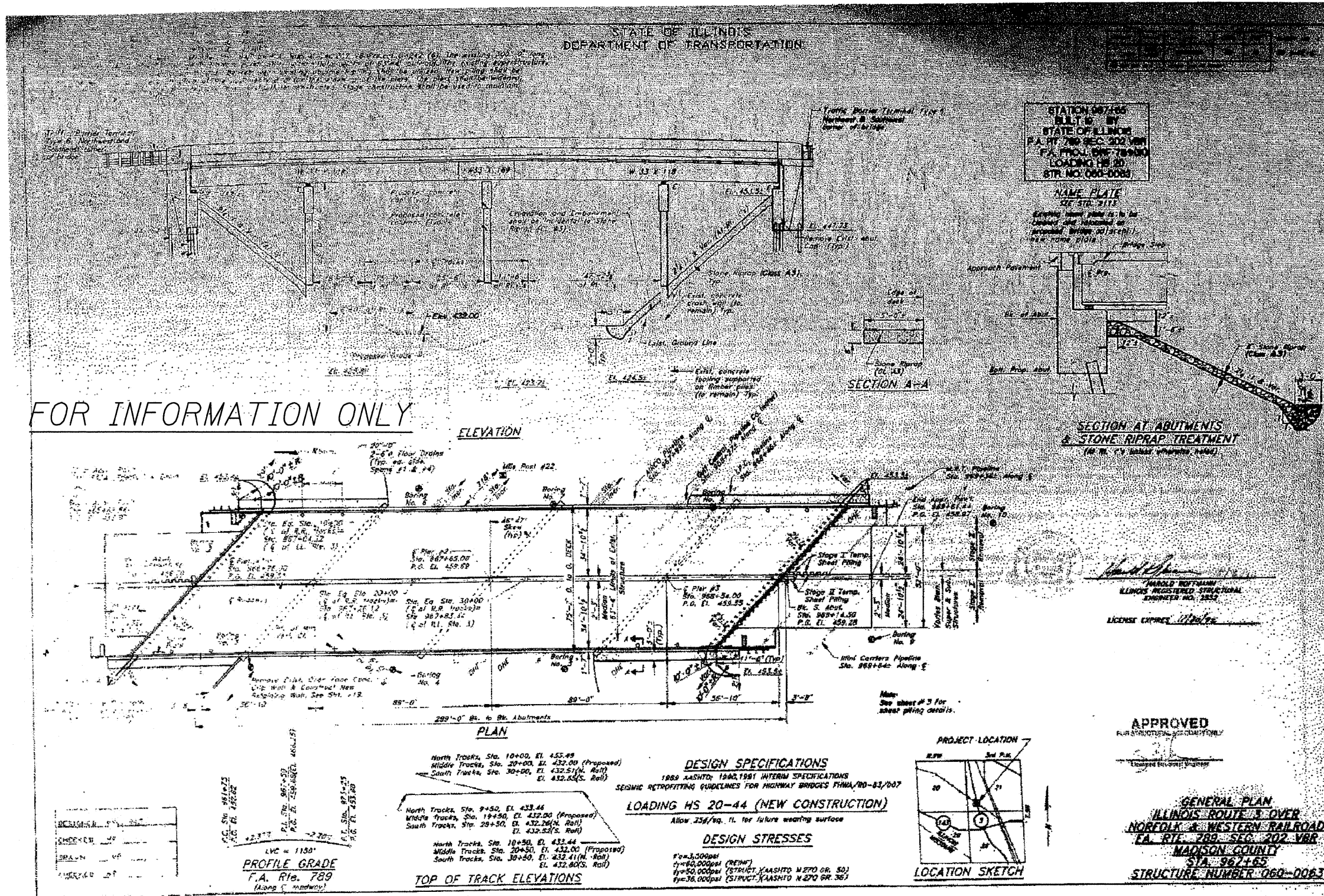


DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

EXAMINED	March 5, 2010
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 9 OF 10 SHEETS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	IL 3	D-8 Bridge Cleaning 2010-1	MADISON	12	11
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76D45					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED	AYV
CHECKED	JAU
DRAWN	AYV
CHECKED	JAU

EXAMINED	March 5, 2010
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 10 OF 10 SHEETS	RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	IL 3	D-8 Bridge Cleaning 2010-1	MADISON	12	12
			CONTRACT NO. 76D45		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		