

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAI ROUTE 270 (I-270)
SECTION D-8 BRIDGE CLEANING 2010-1
MADISON COUNTY
BRIDGE CLEANING VARIOUS LOCATIONS
C-98-008-10

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



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 3/30/10 2010
My C. Flamy
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

May 7 2010
Scott E. Scott P.E. I&E
Acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 2010
Christina M. Reed I&E
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

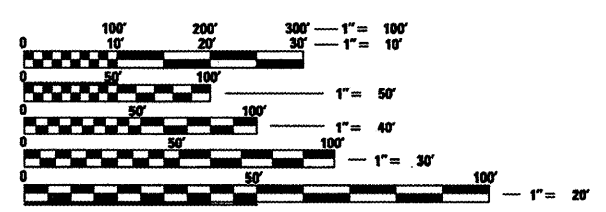
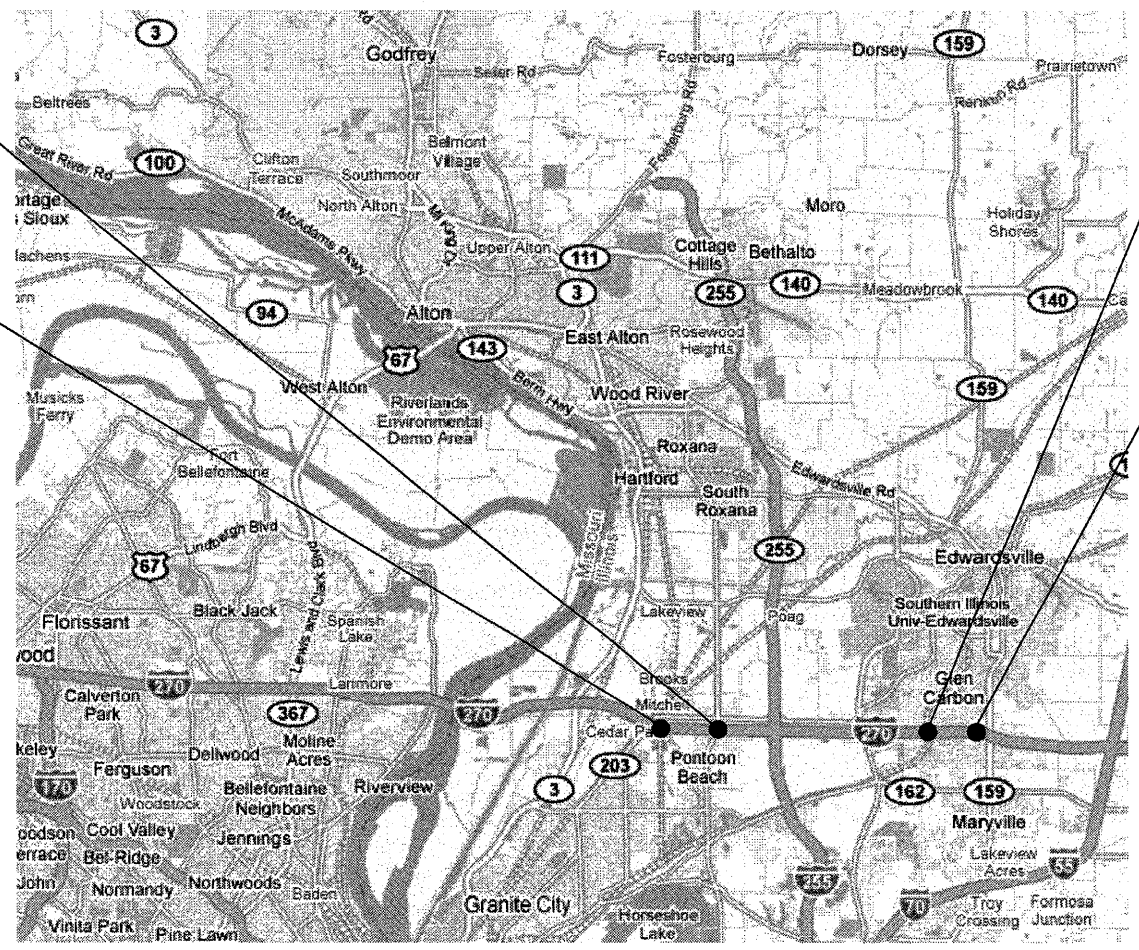
- INDEX OF SHEETS**
- 1 COVER SHEET
 - 2 SOQ, GENERAL NOTES, & STANDARDS
 - 3-4 LOCATION MAPS
 - 5-8 EXISTING BRIDGE PLANS

Location 2
SN 060-0046(EB) & 0047(WB)
I-270 over IL 111
Sta. 401+45.00

Location 1
SN 060-0044(EB) & 0045(WB)
I-270 over Engineer's Road & RR's
Sta. 335+83.97

Location 3
SN 060-0051(EB) & 0052(WB)
I-270 over Bike Trail & stream
Sta. 646+74.00

Location 4
SN 060-0319(EB) & 0320(WB)
I-270 over Judy's Branch Creek & Bike Trail
Sta. 687+98.71



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

*PROJECT MAP
*See sheets 3-4 of 8 for detailed location maps.

CONTRACT NO. 76D45

SUMMARY OF QUANTITIES

SFTY-2A CONT. MAINTENANCE

SUMMARY OF QUANTITIES			100% STATE	CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOCATION 1 XST1 MAIN 100% STATE SN 060-0044/5	LOCATION 2 XST1 MAIN 100% STATE SN 060-0046/7	LOCATION 3 XOT1 MAIN 100% STATE SN 060-0051/2	LOCATION 4 XOBT MAIN 100% STATE SN 060-0319/20			
58700300	CONCRETE SEALER	SQ FT	3154	1034	1488	632				
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			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	0.75	0.75	0.75	0.75			
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25			
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	3		2	1				
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	0.25	0.25	0.25	0.25			

GENERAL NOTES:

- THE BRIDGES SHALL BE WASHED ACCORDING TO SECTION 592 OF THE STANDARD SPECIFICATIONS, EXCEPT THE CONTRACTOR DOES NOT NEED TO WASH THE UNDERSIDE OF THE DECK NOR THE BEAMS FARTHER THAN 5' FROM AN EXPANSION JOINT. THE CONTRACTOR SHALL WASH THE DECK SURFACE, DRAINS, TOP AND INSIDE PARAPET FACES. THE CONTRACTOR SHALL ALSO WASH ALL BEAM ENDS, BEARINGS, BACKWALLS, AND BEARING SEATS UNDER EXPANSIONS JOINTS. LOCATIONS 7 & 8 HAVE INTEGRAL ABUTMENTS WITHOUT EXPANSION JOINTS; SO NO WORK IS REQUIRED UNDER THOSE 2 BRIDGES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NONE OF HIS ACTIVITIES ARE WITHIN 50' OF THE CENTER OF ANY RAILROAD TRACK. THE CONTRACTOR SHALL WASH AREAS UNDER JOINTS WHILE REMAINING AT LEAST 50' FROM ANY RAILROAD TRACK. RAILROAD PROTECTIVE LIABILITY INSURANCE WILL NOT BE REQUIRED FOR THIS CONTRACT.
- ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE IN COLOR AND SKID MOUNTED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- ANY TRAFFIC CONTROL NOT USED SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING OF WORK AND ORDERING OF MATERIALS.
- 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.
- CONCRETE SEALER SHALL BE APPLIED TO BEARING SEATS UNDER JOINTS.
- TRAFFIC CONTROL STANDARD 701411 IS FOR THE ENTRANCE AND EXIT RAMP AT 270 OVER 111 (EB AND WB), AND FOR THE IL 159 ENTRANCE RAMP ONTO I-270 WB (SN 060-0320)

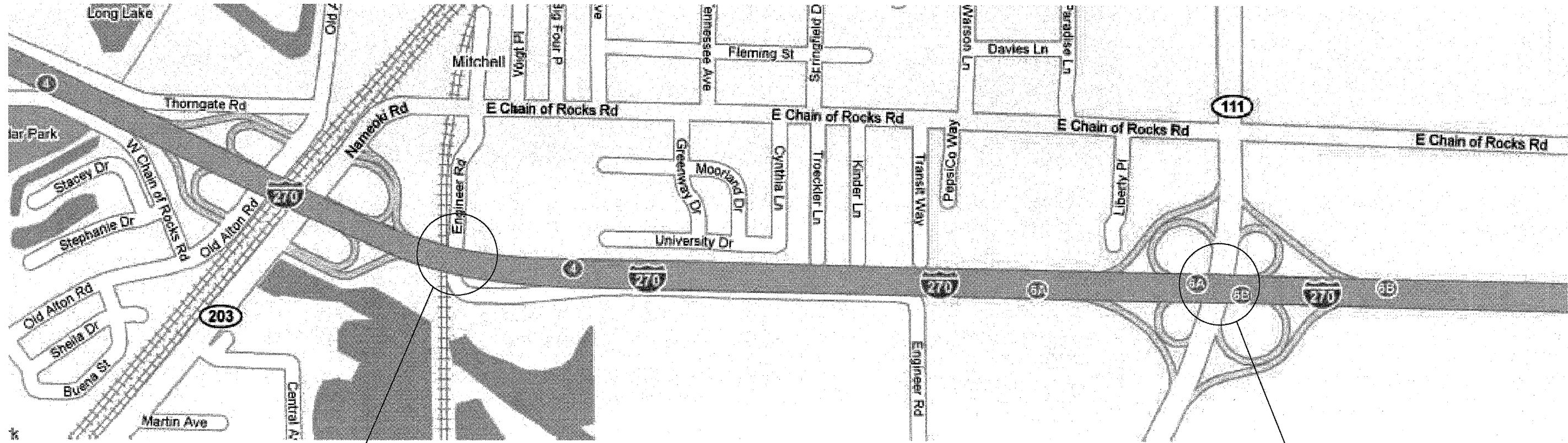
COMMITMENTS

NONE

LIST OF STANDARDS

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

FILE NAME =	USER NAME = #USER#	DESIGNED <i>A. Vinson</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOQ, GENERAL NOTES, STANDARDS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN <i>A. Vinson</i>	REVISED -			270	D-8 BRIDGE CLEANING 2010-1	MADISON	8	2	
	PLOT SCALE = #SCALE#	CHECKED <i>J. Uehle</i>	REVISED -			CONTRACT NO.					
	PLOT DATE = #DATE#	DATE <i>6-11-2010</i>	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.	



Location 1
 SN 060-0044(EB) & 0045(WB)
 I-270 over Engineer's Road & RR's
 Sta. 335+83.97

LOCATION MAP
 (Locations 1 & 2)

Location 2
 SN 060-0046(EB) & 0047(WB)
 I-270 over IL 111
 Sta. 401+45.00

FILE NAME =	USER NAME = #USER#	DESIGNED A. Vinson	REVISED -
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	PLOT DATE = #DATE#	DATE 6-11-2010	REVISED -

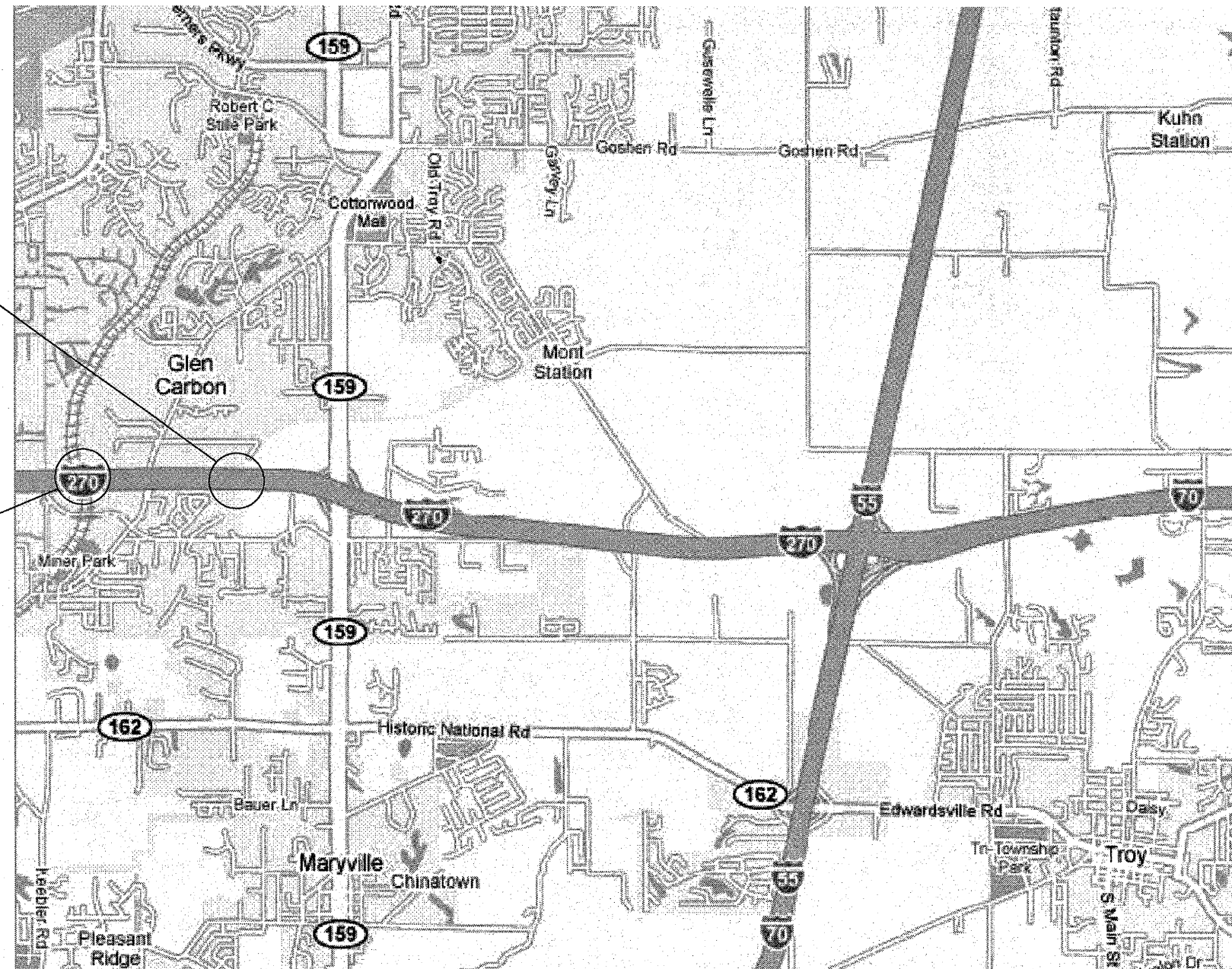
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LOCATION MAP				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	D-8 BRIDGE CLEANING 2010-1	MADISON	8	3
CONTRACT NO. 76D45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Location 4
 SN 060-0319(EB) & 0320(WB)
 I-270 over Judy's Branch Creek & Bike Trail
 Sta. 687+98.71

Location 3
 SN 060-0051(EB) & 0052(WB)
 I-270 over Bike Trail & stream
 Sta. 646+74.00



LOCATION MAP
 (Locations 3 & 4)

FILE NAME =	USER NAME = #USER#	DESIGNED <i>A. Vinson</i>	REVISED -
#FILEL#		DRAWN <i>A. Vinson</i>	REVISED -
	PLOT SCALE = #SCALE#	CHECKED <i>J. Uehle</i>	REVISED -
	PLOT DATE = #DATE#	DATE <i>6-11-2010</i>	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: SHEET NO. OF SHEETS STA. TO STA.

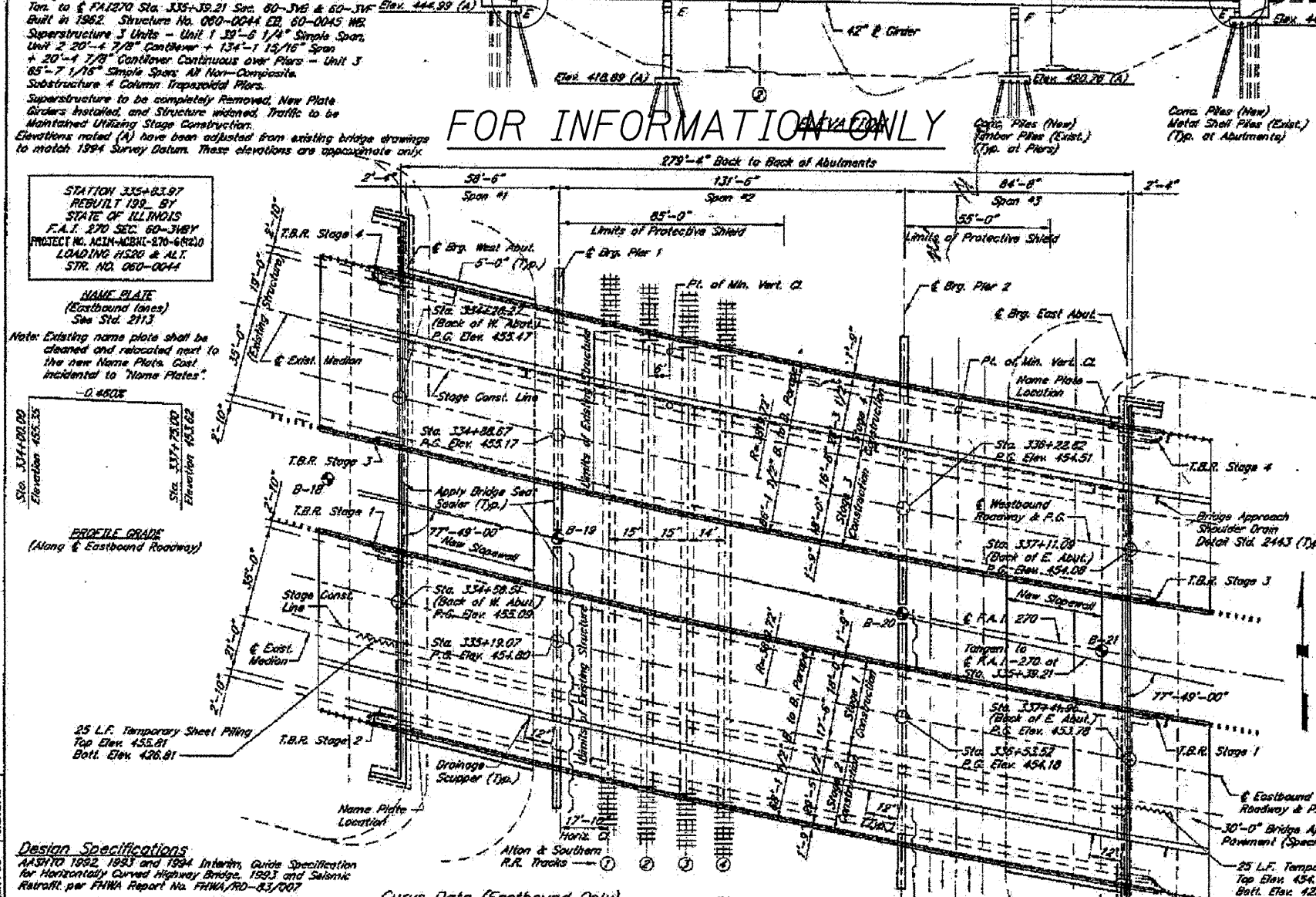
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	D-9 BRIDGE CLEANING 2010-1	MADISON	8	4
CONTRACT NO. 76D45				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

Wash the deck surface, drains, top and inside parapet faces and these areas under expansion joints.

ELM-#7 Elev. 424.14 (DOT BK1, PG. 42 Point Mark on Conc. Base of NW Corner Fence Post of Fence W. of Operating Engineers Bldg., S. of I-270.
T.B.M.-Elev. 453.53 Chiseled \square Top NE corner Concrete Guardrail E.B.L. I-270 Bridge over Engineer Road.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY



NO.	SECTION	DATE	SHEET NO.	TOTAL SHEETS
106	0-8 BRIDGE CLEANING 2010-1		270	478
FED. ROAD DIST. NO. 1 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
Neoprene Expansion Joint 2 1/2"	Foot	68	-	68
Preformed Joint Seal 4"	Foot	64	-	64
Concrete Superstructure	Cu. Yd.	589.3	-	589.3
Concrete Structures	Cu. Yd.	-	538.6	538.6
Protective Coat	Sq. Yd.	462	-	462
Elastomeric Bearing Assembly Type I	Each	9	-	9
East. Brg. Assem. Type I (Spaced)	Each	9	-	9
Elastomeric Bearing Assembly Type III	Each	9	-	9
Structural Steel	L.S.	1	-	1
Steel Shear Connectors	Each	5,805	-	5,805
Reinforcement Bars, Epoxy Coated	Pound	162,500	84,650	247,150
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 Scuppers	Each	3	-	3
Staple Wall (4")	Sq. Yd.	-	853	853
Staple Wall Slurry Pumping	Cu. Yd.	-	13	13
Staple Wall Removal	Sq. Yd.	-	52	52
Bridge Deck Sealer	Sq. Ft.	-	910	910
Bridge Deck Grooving	Sq. Yd.	1984	-	1984
Formed Concrete Repair (Depth=3")	Sq. Ft.	-	222	222
Bitum. Conc. Surf. Removal (Asbestos)	Sq. Yd.	614	-	614
Bar Splicers	Each	2,050	55	2,105

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

STATION 335+83.97
REQUIRE 102, BY
STATE OF ILLINOIS
F.A.I. RT 270-SEC. 60-318Y
PROJECT NO. ACIN-ACBL-870-6R20
LOADING HS20 & ALT
STR. NO. 060-0044

NAME PLATE
(Eastbound lanes)
See Std. 2113

Note: Existing name plates shall be cleaned and relocated next to the new Name Plate. Cost incidental to "Name Plates".

PROFILE GRADE
(Along & Eastbound Roadway)

Design Specifications
AASHTO 1982, 1993 and 1994 Interim Guide Specification for Horizontally Curved Highway Bridge, 1993 and Seismic Retrofit per FHWA Report No. FHWA/RD-83/007

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

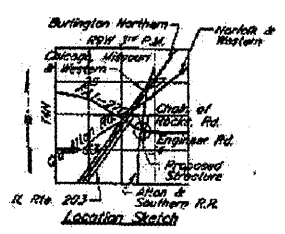
Design Stresses
fc = 3,500 psi (New Reinf.)
fc = 60,000 psi (Reinforcing) (New Reinf.)
fc = 22,000 psi (Exist. Reinf.)
fs = 78,000 psi (A270, G. 30)
fs = 50,000 psi (A270, G. 30)

Curve Data (Eastbound Only)

P.I. Sta. 336+05.40 - E.F.A.I. 270
P.T. Sta. 338+41.68 - Eastbound Bridge
L = 24'-07" - 85° L.L.
D = 1°-32'
T = 616.41'
L = 1606.81'
R = 3619.72'
E = 86.21'
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



GENERAL PLAN & ELEVATION
F.A.I. RT 270-SEC. 60-318Y
OVER ENGINEER RD. & R.R.
MADISON COUNTY
STA. 335+83.97
STRUCTURE NO. 060-0044 (E.B.) & 060-0045

Location 1
SN 060-0044(E.B.) & 0045(WB)
I-270 over Engineer's Road & RR's
Sta. 335+83.97

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED A. Vinson	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION - FOR INFORMATION ONLY	F.A.I. RTE. 270	SECTION 0-8 BRIDGE CLEANING 2010-1	COUNTY MADISON	TOTAL SHEETS 8	SHEET NO. 5
PLOT SCALE = #SCALE#	CHECKED J. Uehle	REVISED -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = #DATE#	DATE 6-11-2010	REVISED -	CONTRACT NO. 76D45							

Wash the deck surface, drains, top and inside parapet faces and these areas under expansion joints.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY

PAT. NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
270	D-8	MADISON	306	416
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

R.M. - #2 Elev. 434.52 BK1, PG 51 Chiselled "I" on S. side of steel light pole foundation plate, Pole #WA-6, Sta. 408+51 left (I-270).
T.B.M. - #1 Elev. 426.90 Chiselled "I" top N. Crashwall Pier 2 E.B. I-270.
#2 Elev. 444.48 Chiselled "I" 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 & 60-34F-1
Built in 1962, Structure No. 060-0046 E.B., 060-0047 W.B.
Superstructure Spans 1 and 4 Simple Span Non-Composite W.F. Beams and Spans 2 and 3 Continuous Non-Composite W.F. 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
REBUILD 1994 BY
STATE OF ILLINOIS
F.A.I. 270 SEC. 60-34B-1
PROJECT NO. A214-A281-270-6(12)30
LOADING 11520 & A.L.T.
STR. NO. 060-0046

NAME PLATE
(Eastbound lanes)
See Std. 2113

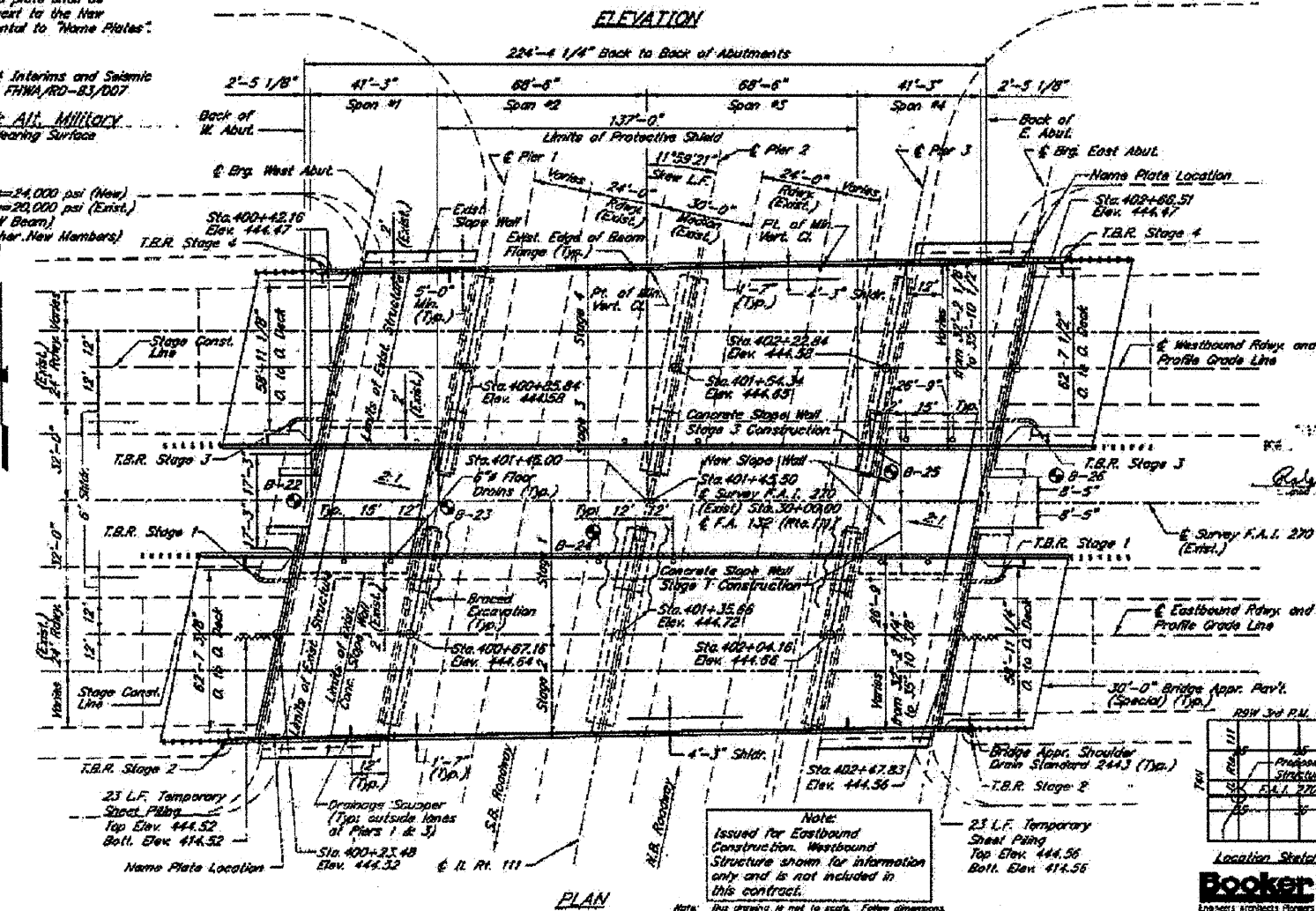
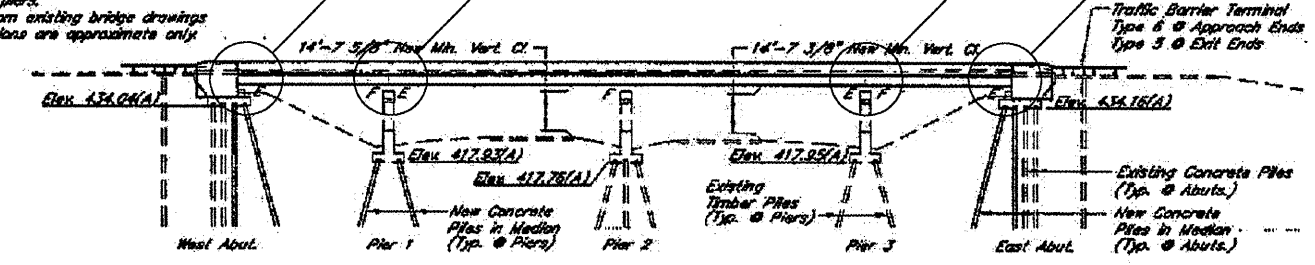
Note: Existing Eastbound name plate shall be cleaned and relocated next to the New Name Plate. Cost incidental to Name Plates.

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

Loading HS 20-44 & All Military
Allow 25% safety factor for future wearing surface

Design Stresses
f_c = 3500 psi (New) f_c = 4000 psi (Exist.)
f_s = 60,000 psi (New) f_s = 70,000 psi (Exist.)
f_s = 27,000 psi (Struct-New W Beams)
f_s = 30,000 psi (Struct-All Other New Members)
f_s = 18,000 psi (Struct-Exist.)

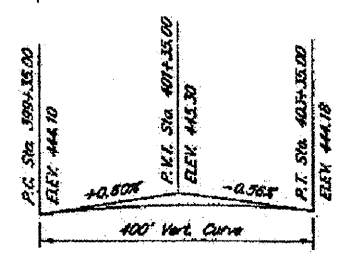
Seismic Data
S_{PC} = B
A = 0.11g
S = 1.5



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
Preformed 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	4718	-	4718
Cleaning and Painting Steel Bridge	L.S.	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	100,240	58,830	159,070
Furnishing Concrete Piles	Foot	-	1632	1632
Driving Concrete Piles	Foot	-	1632	1632
Test Pile Concrete	Each	-	3	3
Temporary Steel 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 Saver	Sq. Ft.	-	773	773
Bridge Deck Grooving	Sq. Yd.	1413	-	1413
Formed Concrete Road (Depth=6")	Sq. Ft.	-	38	38
Power Tool Cleaning Residue Cont. & Disposal	L.S.	1	-	1
Box Scaupers	Each	804	21	825

* Quantity includes top and inside of parapets only.



GENERAL PLAN & ELEVATION
F.A.I. RT 270-SEC. 60-34B-1
OVER IL RTE. 111
MADISON COUNTY
STA. 401+45.00
STRUCTURE NO. 060-0046 (E.B.) & 060-0047 (W.B.)

11.30.10
Exp. Date

Location 2
SN 060-0046(E.B.) & 0047(W.B.)
I-270 over IL 111
Sta. 401+45.00

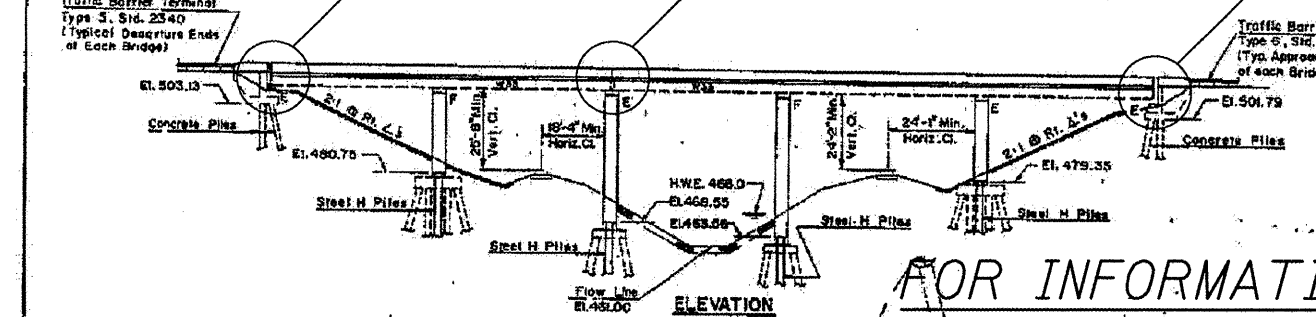
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	PLOT SCALE = #SCALE#	CHECKED J. Uehle	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
	PLOT DATE = #DATE#	DATE 6-11-2010	REVISED -								

Wash the deck surface, drains, top and inside parapet faces and these areas under expansion joints.

3 M. x 7' Chiseled "C" Top of abutment seat, S.E. Corner of structure no. 060-0051, Elev. 505.87
 Existing Structures: Built in 1963 as F.A.I. Route 270, Sec. 60-4VB-1. Superstructure consists of a non-composite 7" concrete deck on steel W.F. beams, 2-span continuous unit from West Abut. to Pier 2, 3-span continuous unit from Pier 2 to East Abut. Substructure consists of pile bent abutments, 3 single column hammerhead piers. Concrete deck to be removed & replaced. Abutments & Piers to be widened to carry new outside spans. Traffic to be maintained using Stage Construction. Mandrel to be salvaged.

The existing metal stay-in-place forms may have been tack welded to the top flanges of the existing beams. If this is the case, the welded areas between the centerline pier and first row of shear studs should be ground smooth prior to the placement of the new deck. If this work is necessary, it shall be paid for in accordance with Article 108.04 of the Standard Specifications. The cost of removing the stay-in-place forms shall be incidental to "Removal of Existing Concrete Deck".

DATE	BY	CHECKED	TOTAL SHEETS	SHEET NO.
12-23-94	J. Uehle	A. Vinson	228	34



STATION 646+74.00
 REBUILT 199 BY
 STATE OF ILLINOIS
 F.A.I. RTE. 270 SEC. 60-4VB-1
 PROJECT 24-870-6044
 LOADING HS20-44 & A.L.T.
 STR. NO. 060-0051

NAME PLATE
 NORTH BRIDGE SEE SH. 11

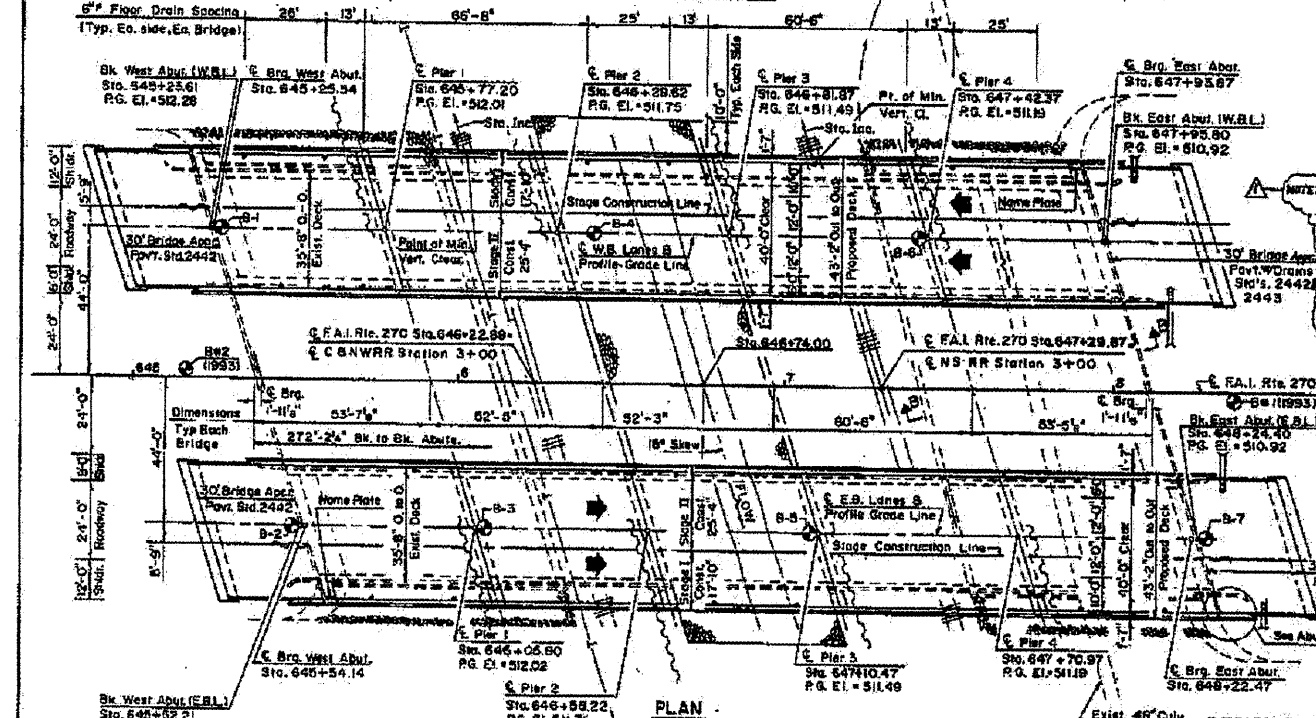
STATION 646+74.00
 REBUILT 199 BY
 STATE OF ILLINOIS
 F.A.I. RTE. 270 SEC. 60-4VB-1
 PROJECT 24-870-6044
 LOADING HS20-44 & A.L.T.
 STR. NO. 060-0052

NAME PLATE
 NORTH BRIDGE SEE SH. 11

TOTAL BILL OF MATERIAL

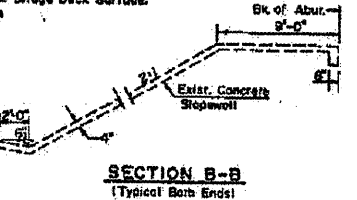
ITEM	UNIT	SUPER	SUB	TOTAL
* Removal of Existing Concrete Deck	Each	2		2
Concrete Remove	Cu Yd		31.8	31.8
Fiber Drains	Each	24		24
Noncompress Expansion Joint 2"	Foot	284		284
Structure Encapsulation	Cu Yd		888	888
Concrete Structures	Cu Yd		490.4	490.4
Concrete Superstructure	Cu Yd		683.4	683.4
Bridge Deck Girders	Sq Yd	2,398		2,398
Protective Coat	Sq Yd	440		440
Elementary Bearing Assembly, Type 1	Each	70		70
Formed Concrete Repair (Depth Equal to or Less than 6")	Sq Ft		83	83
Furnishing and Erecting Structural Steel	L Sum			12,810
Steel Shear Connectors	Each	12,810		12,810
Lock and Remove Existing Bearings	Each	84		84
Reinforcement Bars, Epoxy Coated	Pound	188,980	47,729	236,709
Furnishing Concrete Piles	Foot		604	604
Furnishing Steel Piles HP10x42	Foot		1,402	1,402
Driving Concrete Piles	Foot		507	507
Driving Steel Piles	Foot		1,402	1,402
Test Pile Steel HP10x42	Each	2		2
Test Pile Concrete	Each	2		2
Name Plates	Each	2		2
Epoxy Crack Sealing	Foot		208	208
Bridge Seal Sealer	Sq Ft		314	314
Broken Concrete Repair	Sq Yd		236	236
Stone Riprap, Class A1	Sq Yd		959	959
Filter Fabric for Use with Riprap	Sq Yd		868	868
Slope Wall Removal	Sq Yd		15	15
Bar Spacers	Each	1,880	48	1,928
Clean and Paint Steel Bridge	L Sum			1
Power Tool Cleaning Residue	L Sum			1
Removal Residue Containment and Disposal	L Sum			1
Temporary Sheet Piling	Sq Ft		8,594	8,594
Slope Wall 2 inch	Sq Yd		15	15

Quantity does not include Bridge Deck Surface.
 See Special Provisions



TOP OF EAST RAIL ELEVATION

STATION	C.&N.W. R.R.	N. S. R.R.
1+50	481.55	482.09
2+00	481.63	482.44
2+50	481.61	482.73
3+00	481.69	482.89
3+50	481.11	483.22
4+00	482.32	483.66
4+50	482.54	483.69



SEISMIC DATA
 Seismic Performance Category: B
 Bed Rock Acceleration: 0.10
 Site Coefficient: 1.0

DESIGN SPECIFICATIONS
 1992 A.A.S.H.T.O. Standard Specifications for Highway Bridges and 1993 Interim Specifications.
 FHWA/RD-83/007 "Seismic Retrofitting Guidelines for Highway Bridges"
LOADING HS 20-44 & A.L.T.
 Allow 25% 3a1L for future wearing surface

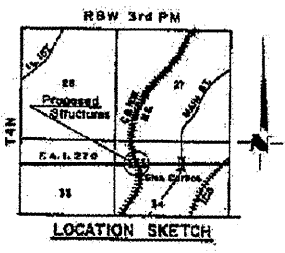
DESIGN STRESSES
 fc = 3,500 p.s.i.
 fy = 60,000 p.s.i. (Reinf.)
 fs = 20,000 p.s.i. (Struct. Prop. H 270, Gr. 36)
 ts = 20,000 p.s.i. (Struct. Erect., A 36)

CONCATENATED COMMUNICATIONS INC.
 Fiber Optic Line
 Depth = 40"

PROF. GRADE LINE
 W.B. LANES, F.A.I. RTE. 270

PROF. GRADE LINE
 E.B. LANES, F.A.I. RTE. 270

GENERAL PLAN & ELEVATION
F.A.I. ROUTE 270 OVER
C.&N.W. R.R. & N.S. R.R.
F.A.I. RTE. 270, SEC. 60-4VB-Y-1
STA. 646+74.00
MADISON COUNTY
STR. NO. 060-0051 (E.B.) &
STR. NO. 060-0052 (W.B.)



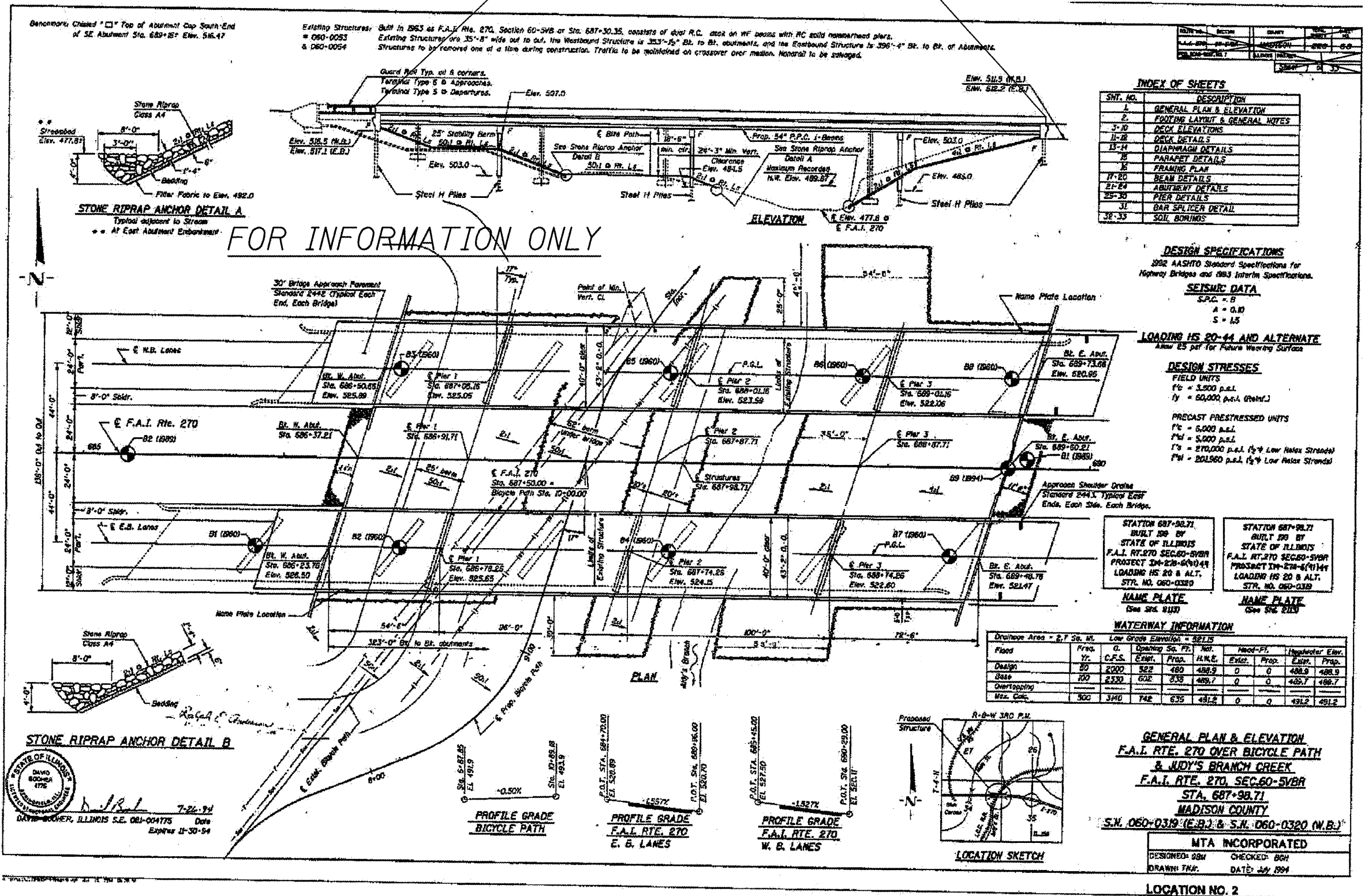
GENERAL PLAN & ELEVATION
F.A.I. ROUTE 270 OVER
C.&N.W. R.R. & N.S. R.R.
F.A.I. RTE. 270, SEC. 60-4VB-Y-1
STA. 646+74.00
MADISON COUNTY
STR. NO. 060-0051 (E.B.) &
STR. NO. 060-0052 (W.B.)

MTA, INCORPORATED
 1000 N. GERM. ST. CHICAGO, ILL. 60610
 OWNER: M.B.A. DATE: 7/94 NO. 6133

Location 3
 SN 060-0051(E.B.) & 0052(W.B.)
 I-270 over Bike Trail & stream
 Sta. 646+74.00

FILE NAME =	USER NAME = #USER#	DESIGNED A. Vinson	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION - FOR INFORMATION ONLY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	DRAWN A. Vinson	REVISED -	D-9 BRIDGE CLEANING 2010-1			MADISON	8	7		
PLOT SCALE = #SCALE#	CHECKED J. Uehle	REVISED -	CONTRACT NO. 76D45							
PLOT DATE = #DATE#	DATE 6-11-2010	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

Wash the deck surface, drains, top and inside parapet faces.
The abutments are integral (without expansion joints), so no work is required under the bridge.



Location 4
SN 060-0319(EB) & 0320(WB)
I-270 over Judy's Branch Creek & Bike Trail
Sta. 687+98.71

FILE NAME =	USER NAME = #USER#	DESIGNED A. Vinson	REVISED -	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	DRAWN A. Vinson	CHECKED J. Uehle	REVISED -	270	D-8 BRIDGE CLEANING 2010-1	MADISON	8	8
PLOT SCALE = #SCALE#	DATE 6-11-2010	DATE 6-11-2010	REVISED -	GENERAL PLAN & ELEVATION - FOR INFORMATION ONLY		CONTRACT NO. 76D45		
PLOT DATE = #DATE#				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
					FED. ROAD DIST. NO.	[ILLINOIS] FED. AID PROJECT		

