

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-5BP-1	MADISON	11	1
		ILLINOIS	CONTRACT NO. 76L39	

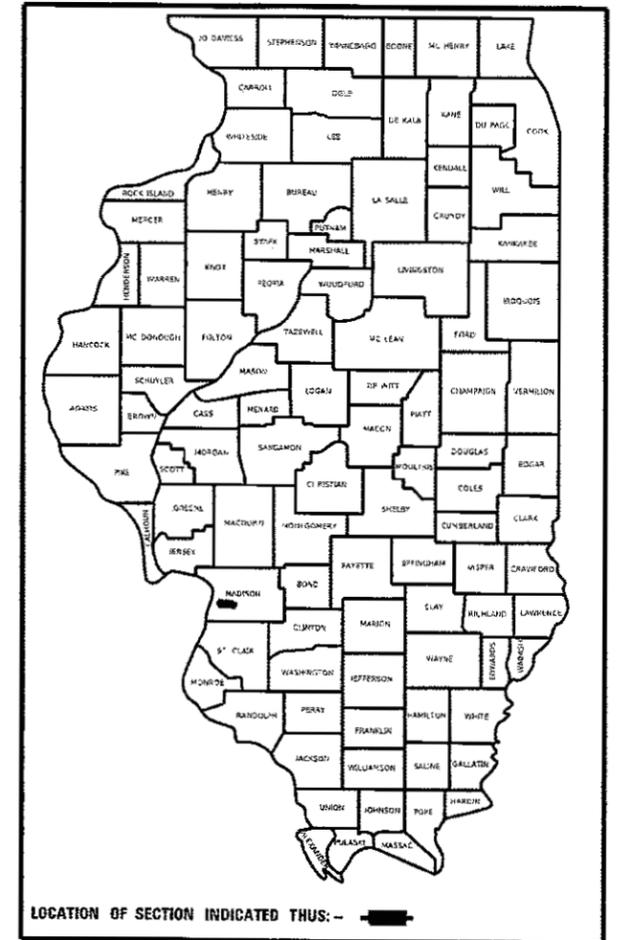
FOR INDEX OF SHEETS, SEE SHEET NO. 2

# PROPOSED HIGHWAY PLANS

FAI ROUTE 270 (I-270)  
SECTION 60-5BP-1  
PROJECT NHPP-NERT(180)  
BRIDGE PAINTING  
MADISON COUNTY

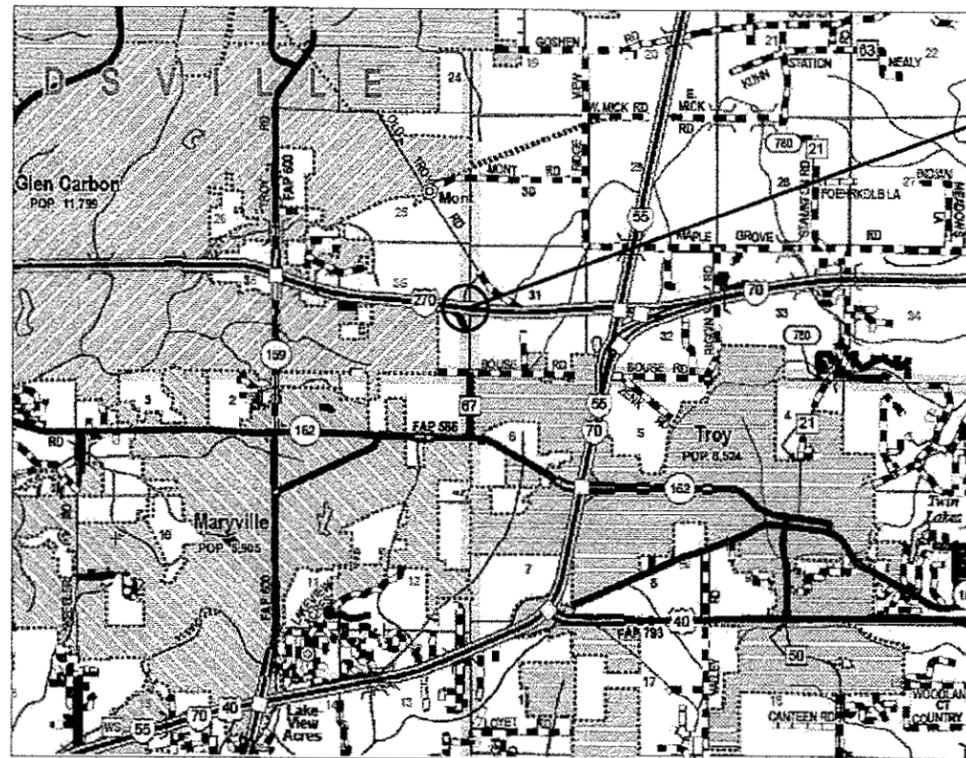
C-98-193-18

D-98-050-18



LOCATION OF SECTION INDICATED THUS: -

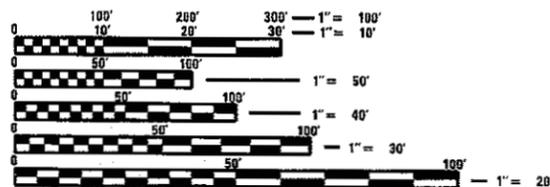
R8W



NOT TO SCALE

**PROJECT LOCATION**  
SN 060-0055  
4 SPAN CONTINUOUS STEEL PLATE  
BEAM GIRDER WITH A CONCRETE  
DECK ON REINFORCED CONCRETE  
PIERS AND ABUTMENTS  
TOTAL LENGTH - 258 FT  
LATITUDE: 38.752080  
LONGITUDE: -89.929070

SN 060-0056  
4 SPAN CONTINUOUS STEEL PLATE  
BEAM GIRDER WITH A CONCRETE  
DECK ON REINFORCED CONCRETE  
PIERS AND ABUTMENTS  
TOTAL LENGTH - 258 FT  
LATITUDE: 38.752065  
LONGITUDE: -89.928896



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: HERVÉ GELIN 618-346-3179  
PROJECT MANAGER: BILLIE OWEN 618-346-3209

CONTRACT NO. 76L39

GROSS LENGTH = 258 FT. = 0.05 MILE  
NET LENGTH = 258 FT. = 0.05 MILE

**FUNCTIONAL CLASSIFICATION**  
CLASS I INTERSTATE

**ADT**  
I-270  
2018 = 15,700 (ESTIMATED)  
SU = 2.85%  
MU = 23.25%  
OLD TROY ROAD  
2018 = 4000 (ESTIMATED)  
SU = 3.12%  
MU = 0.52%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 8, 2017

Jeffrey Z. K... REGIONAL ENGINEER

Feb 2, 2018 A. Etk... ENGINEER OF DESIGN AND ENVIRONMENT

Paul P. Ch... DIRECTOR OF PROGRAM DEVELOPMENT 2

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, LIST OF IDOT HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS, PERTINENT INFORMATION
- 3 SUMMARY OF QUANTITIES
- 4-9 EXISTING STRUCTURE DETAILS
- 10-11 DETOUR PLAN SHEETS

STANDARDS

00001-06  
 001006  
 BLR21-9  
 701901-07

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E (1-800-892-0123 OR 811) OR FOR NON -MEMBERS, THE UTILITY COMPANY DIRECTLY.
2. A MINIMUM OF TWO AIR MONITORS WILL BE REQUIRED AT EACH STRUCTURE TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES."
3. THE SSPC-OP1 AND SSPC-OP2 CERTIFICATIONS WILL BE REQUIRED FOR ALL BRIDGES.
4. FOR BOTH STRUCTURES, CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SPPC-SPI0. ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINAL FINISH COAT SHALL BE GRAY (MUNSELL NO. 5B 7/1).
5. ALL TURF AREA DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN AT THE CONTRACTOR'S EXPENSE.
6. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS. THESE SIGNS WILL BE CONSIDERED AS INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" X 48" FLUORESCENT ORANGE.
7. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO THE COMMENCEMENT OF THE CONTRACT.
8. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION -RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL- TRAINED AND READY TO BECOME PRODUCTIVE ENTRY -LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

COMMITMENTS

NONE

PERTINENT INFORMATION

1. NO PEDESTRIAN OR CYCLIST SHALL BE ALLOWED WITHIN 30 FEET OF THE WORK AREA.
2. THE CLOSURE OF OLD TROY ROAD SHALL OCCUR DURING THE SUMMER SESSION OF FATHER MCGIVNEY CATHOLIC HIGH SCHOOL AND ALBERT CASSENS ELEMENTARY SCHOOL.
3. THE RESIDENT ENGINEER SHALL COORDINATE WITH THE CONTRACTOR OF THE OLD TROY ROAD RECONSTRUCTION AND MADISON COUNTY TRANSIT (MCT).
4. CLOSURE NOTICES SHALL BE POSTED TWO WEEKS PRIOR TO TRAIL CLOSURE. CLOSURE NOTICES SHALL BE POSTED ON THE SIDE OF THE TRAIL, 100' IN ADVANCE OF THE STRUCTURE AND AT THE TRAILHEAD PARKING LOTS LOCATED NORTH (MONT STATION) AND SOUTH (IL 162) OF THE CLOSURE.
5. TYPE 3 BARRICADES WITH "TRAIL CLOSED" SIGNS SHALL BE PLACED AT THE SOUTH END OF THE TUNNEL UNDER OLD TROY ROAD AND AT THE TRAIL INTERSECTION TO THE NORTH. THE CONTRACTOR SHALL NOTIFY MCT TWO WEEKS PRIOR TO TRAIL CLOSURE.
6. MCT PROPERTY SHALL BE CLEANED AND RESTORED TO ITS ORIGINAL CONDITION PRIOR TO REOPENING GOSHEN TRAIL.
7. THE CONTRACTOR SHALL SIGN A TEMPORARY RIGHT OF ENTRY WITH MCT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

MODEL: \\MODELNAME  
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USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/12/2017	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, LIST OF IDOT HIGHWAY STANDARDS GENERAL  
 NOTES, COMMITMENTS, PERTINENT INFORMATION

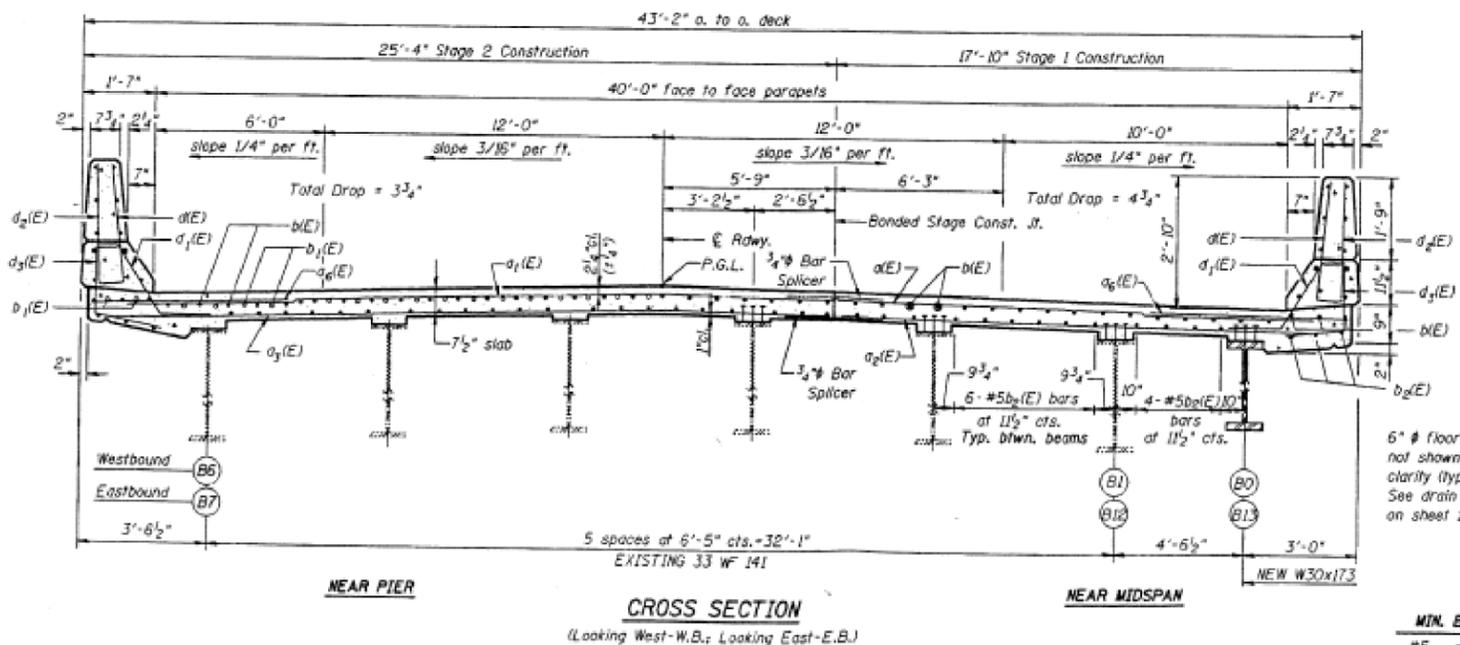
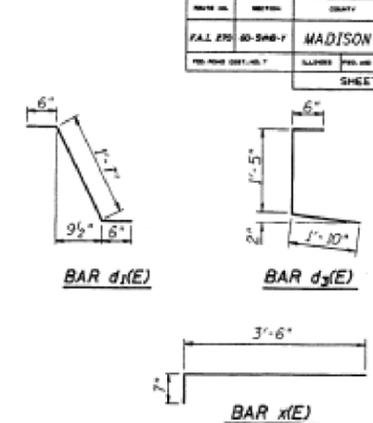
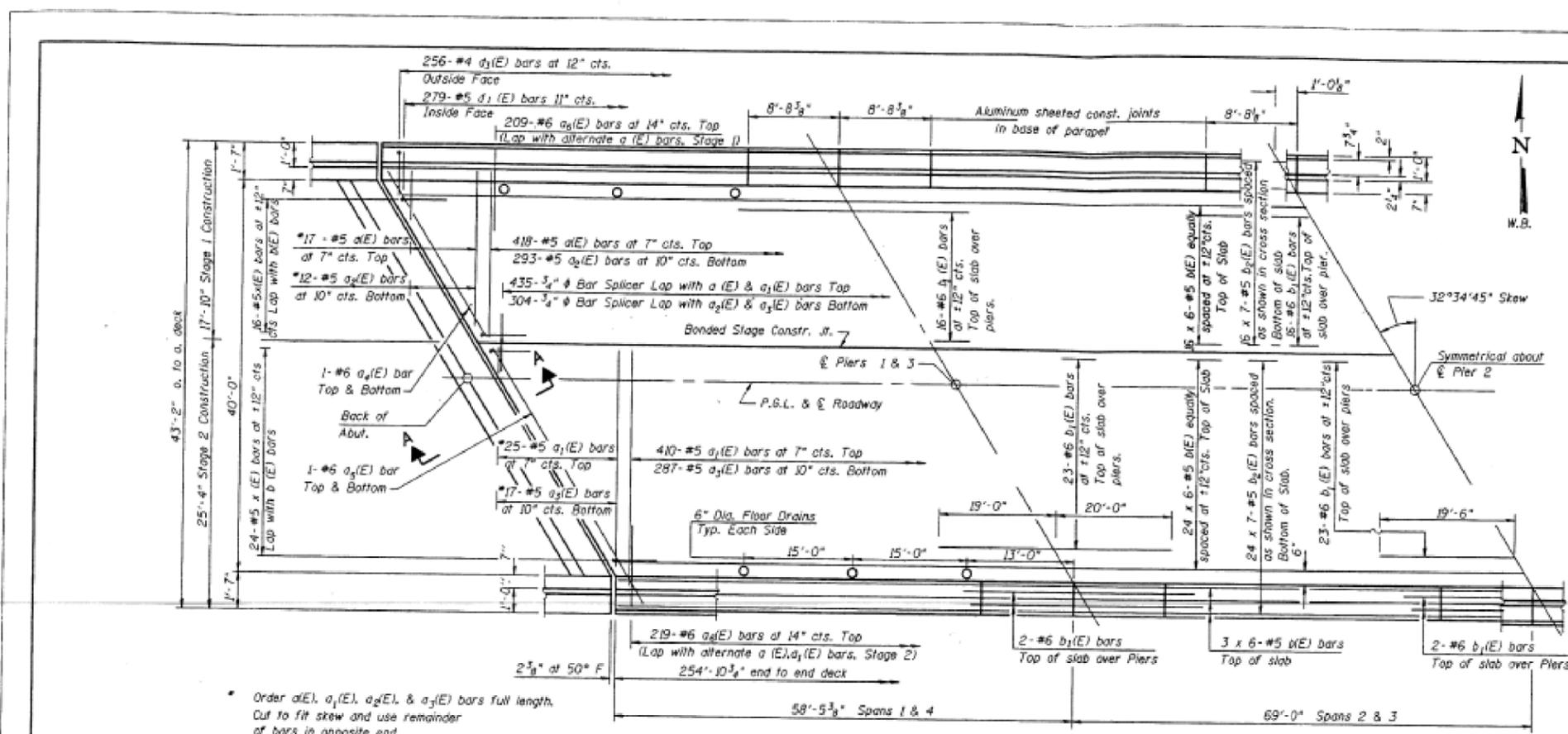
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-5BP-1	MADISON	11	2
			CONTRACT NO. 76L39	
		ILLINOIS FED. AID PROJECT		





FYI ONLY NOT TO SCALE



**DECK DETAILS**  
 F.A.I. ROUTE 270 OVER N. & S. R.R.  
 AND COUNTY HIGHWAY 67  
 F.A.I. ROUTE 270, SECTION 60-5VH-B-Y  
 STA. 796+28.69  
 MADISON COUNTY  
 STR. NO. 060-0055 (W.B.)  
 STR. NO. 060-0056 (E.B.)

**HSIONG ASSOCIATES LTD.**  
 DESIGNED: P.Y.L. CHECKED: F.T.T.  
 DRAWN: B.R. DATE: JULY, 1994 NO. H-121

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/4/2017	DATE -	REVISED -

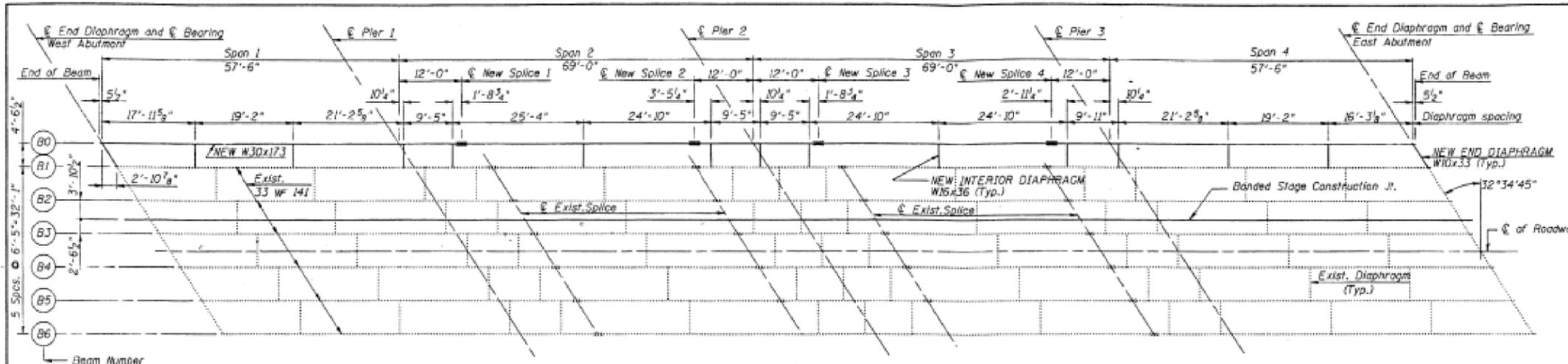
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

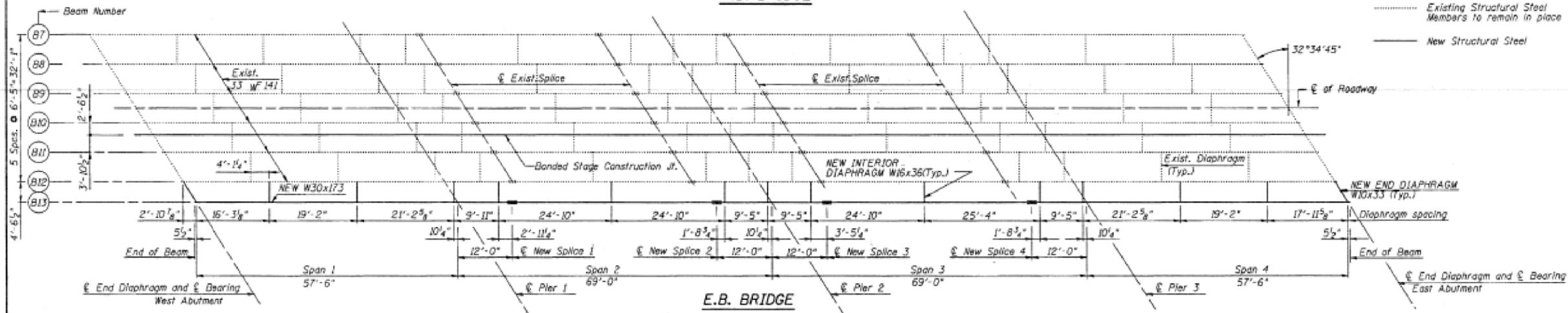
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-5BP-1	MADISON	11	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L39	

PROJECT NO.	SECTION	COUNTY	SHEET	TOTAL
F.A.I. 270 60-58B-1		MADISON	228	132
SHEET 11 OF 31				

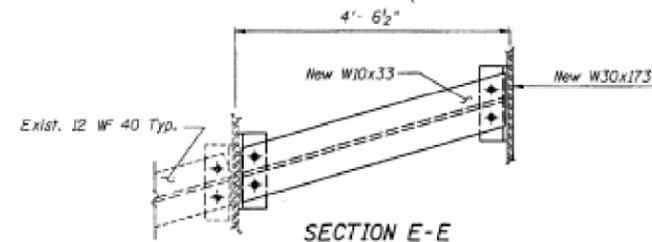


**W.B. BRIDGE**

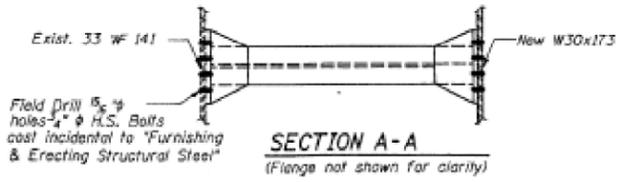


**E.B. BRIDGE**

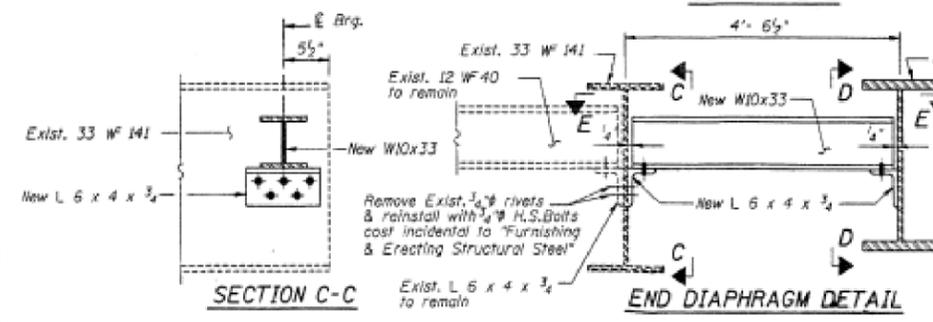
**LEGEND:**  
 - - - Existing Structural Steel Members to remain in place  
 — New Structural Steel



**SECTION E-E**

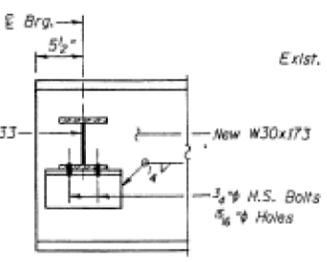


**SECTION A-A**  
(Flange not shown for clarity)

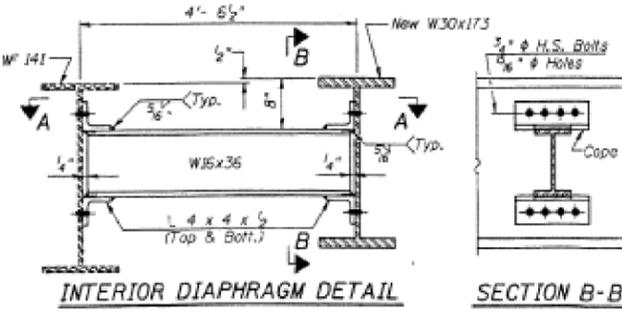


**SECTION C-C**

**END DIAPHRAGM DETAIL**



**SECTION D-D**



**INTERIOR DIAPHRAGM DETAIL**

**SECTION B-B**

**NOTES:**  
 1. Estimated weight of new Structural Steel = 102,120 lbs. (for two Structures) (Includes wt. of the diaphragm)  
 2. Two hardened washers shall be required over all oversized holes.

**STEEL FRAMING PLAN**

F.A.I. ROUTE 270 OVER N. & S. R.R.  
 AND COUNTY HIGHWAY 67  
 F.A.I. ROUTE 270, SECTION 60-5VHB-Y  
 STA. 796+28.69  
 MADISON COUNTY  
 STR. NO. 030-0055 (W.B.)  
 STR. NO. 060-0056 (E.B.)

**HSIONG ASSOCIATES LTD.**  
 DESIGNED: P.Y.L. CHECKED: F.T.T.  
 DRAWN: B.R. DATE: JULY, 1994 NO. H-121  
**LOCATION NO. 3**

FYI ONLY NOT TO SCALE

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/4/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS**

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-58B-1	MADISON	11	6
CONTRACT NO. 76L39				

ILLINOIS FED. AID PROJECT

INTERIOR BEAM MOMENT TABLE								
	New W30x173 @ B0 & B13				Existing 33 W141 @ B1 thru B12			
	0.4 Sp. 1 0.6 Sp. 4	Piers 1 & 3	0.5 Sp. 2 & 3	Pier 2	0.4 Sp. 1 0.6 Sp. 4	Piers 1 & 3	0.5 Sp. 2 & 3	Pier 2
$I_s$	(in <sup>4</sup> ) 8200	8200	8200	8200	7442	7442	7442	7442
$I_c$ (in)	17738	-	17738	-	19040	-	19040	-
$I_c$ (3n)	12807	-	12807	-	13869	-	13869	-
$S_c$	(in <sup>3</sup> ) 539	539	539	539	447	447	447	447
$S_c$ (n)	723	-	723	-	646	-	646	-
$S_c$ (3n)	649	-	649	-	582	-	582	-
$U$	(K/ft.) 0.739	0.949	0.739	0.949	0.764	1.042	0.764	1.042
$M_D$	(K) 166	287	139	278	179	405	150	398
$f_s \bar{E}$ (non comp) (K.s.i.)	3.7	8.4	3.1	8.3	4.8	10.9	4.0	10.7
$s \bar{E}$	(K/ft.) 0.210	-	0.210	-	0.278	-	0.278	-
$M_{s \bar{E}}$	(K) 64	-	60	-	72	-	69	-
$f_s \bar{E}$ (comp) (K.s.i.)	1.2	-	1.1	-	1.5	-	1.4	-
$M_L$	(K) 378	234	396	249	382	223	405	238
$M$ (Imp)	(K) 104	62	102	64	105	59	104	61
$f_s$ (Imp) (K.s.i.)	8.0	6.6	8.3	7.0	9.0	7.6	9.5	8.0
$f_s$ (Total) (K.s.i.)	12.9	15.0	12.5	15.3	15.3	18.5	14.9	18.7
$VR$	(K) 47.8	-	50.7	-	47.7	-	50.5	-

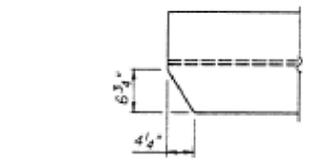
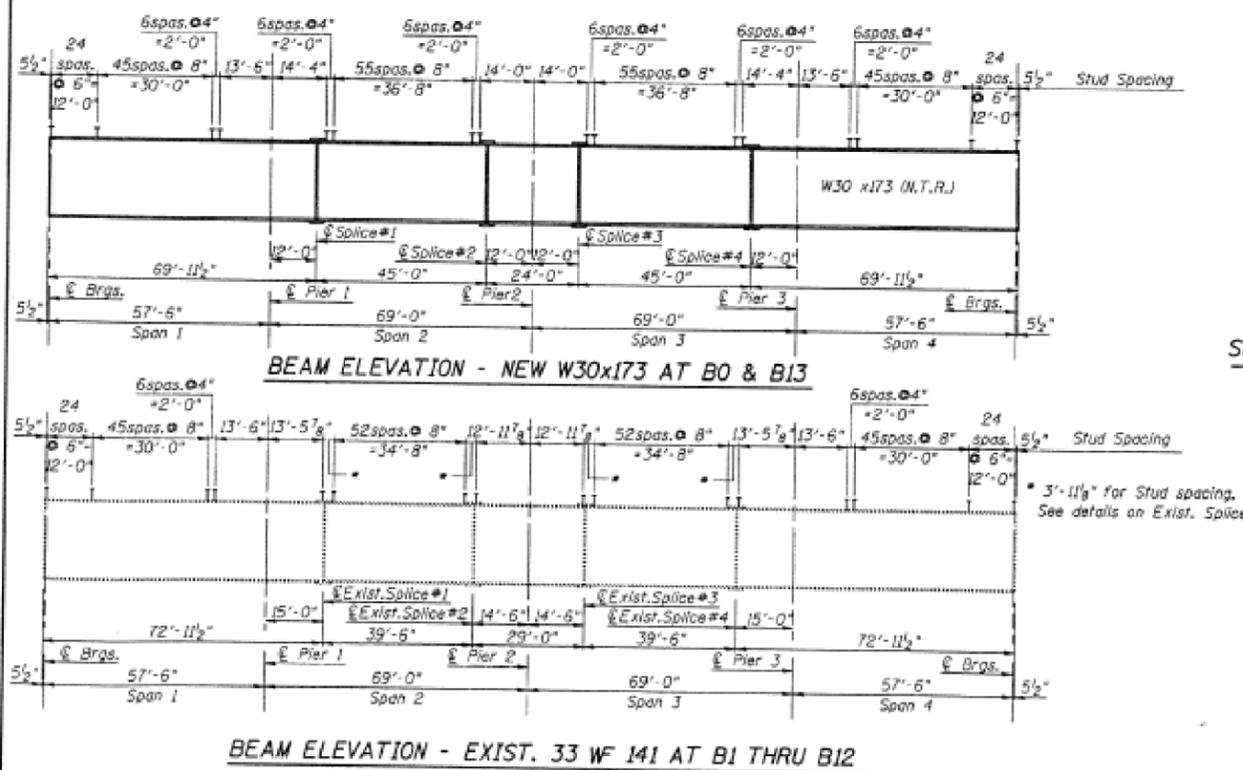
INTERIOR BEAM REACTION TABLE			
	E.&W. Abut.	Piers 1 & 3	Pier 2
$R_R$ (K)	21.1	67.6	66.2
$R_L$ (K)	34.3	42.4	43.5
$Imp.$ (K)	9.4	11.3	11.2
$R$ Total (K)	64.8	121.3	120.9

$I_s$  and  $S_s$  are the moment of inertia and section modulus of the steel section used in computing  $f_s$  (Total).  $I_c(n)$ ,  $I_c(3n)$  and  $S_c(n)$ ,  $S_c(3n)$  are the moment of inertia and section modulus of the composite section used in computing  $f_s$  (Total).  $VR$  is the maximum  $I_s$  - Impact shear range in span.  $M_D$  - Moment due to dead loads on non-composite section.  $M_{s \bar{E}}$  - Moment due to dead loads on composite section.  $M_L$  - Moment due to live load on non-composite or composite section.  $Imp.$  - Live load impact. N.T.R. - Indicates Notch Toughness Requirements.

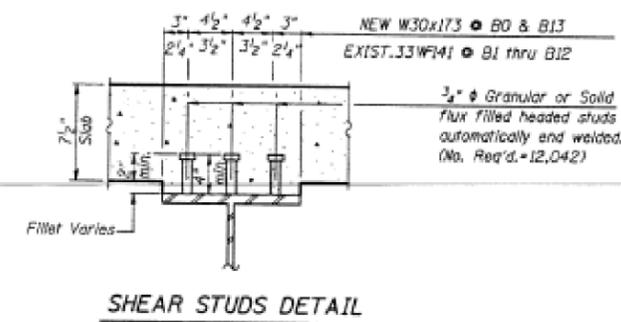
DATE	REVISION	QUANTITY	SCALE	SHEET
FALL 2010	REVISED	MADISON	228	133
SHEET 12 OF 31				

Location	E. Brg	E. Pier	E. Spl.	E. Spl.	E. Pier	E. Spl.	E. Spl.	E. Pier	E. Brg
Beam	W. Abut.	#1	#2	#3	#4	#5	#6	#7	E. Abut.
B0 (W.B.)	606.97	607.02	607.03	607.03	607.02	607.01	606.94	606.91	606.78
B13 (E.B.)	607.03	607.03	607.04	607.01	606.99	606.98	606.87	606.84	606.67

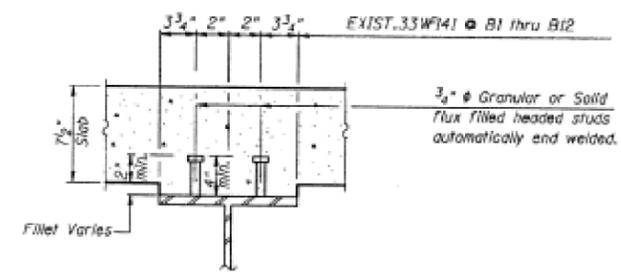
**TOP OF BEAM ELEVATIONS**  
(For Fabrication Only)



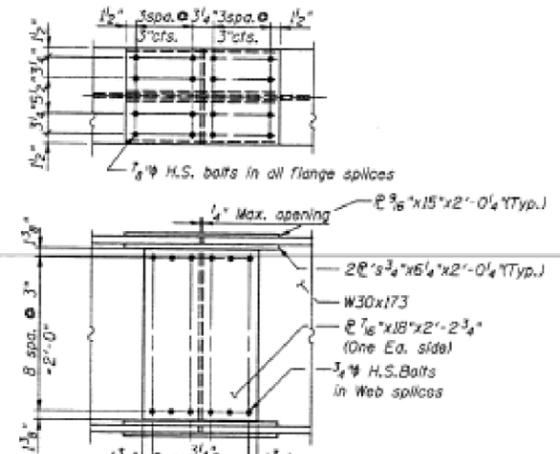
**COPE DETAIL**  
(B0 & B13, at Abutments, Top Flange only)



**SHEAR STUDS DETAIL**

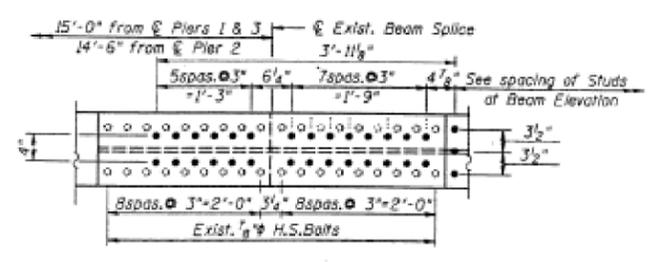


**SHEAR STUDS DETAIL AT EXIST. SPLICE**



**FIELD SPLICE DETAIL**

- NOTES:**
- All Splice Plates shall meet Notch Toughness Requirements.
  - All Structural Steel shall be AASHTO M-270 Grade 36.



**SHEAR STUDS AT EXIST. SPLICE**

- Existing H.S. Bolts
- New Shear Studs

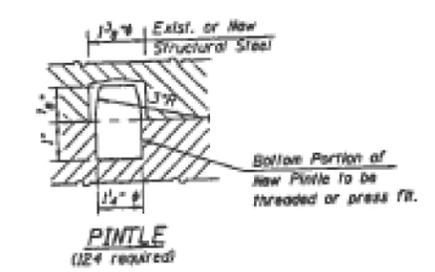
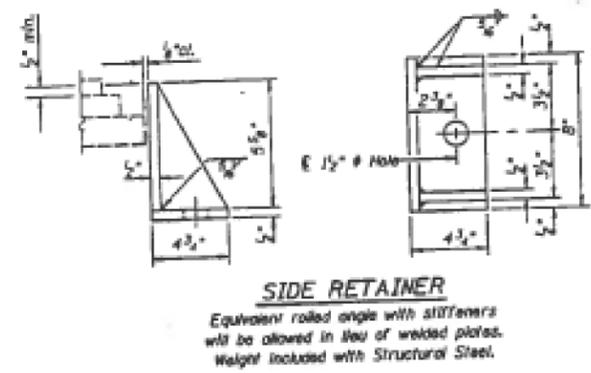
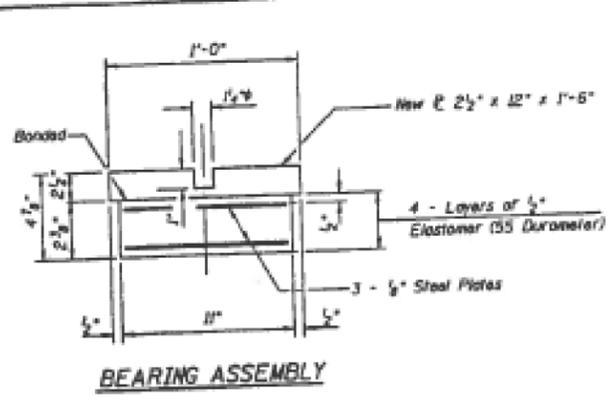
**BEAM DETAILS**  
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AND COUNTY HIGHWAY 67  
F.A.I. ROUTE 270, SECTION 60-5VHB-Y  
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MADISON COUNTY  
STR. NO. 060-0055 (W.B.)  
STR. NO. 060-0056 (E.B.)

**HISIONG ASSOCIATES LTD.**  
DESIGNED: P.Y.L. CHECKED: F.T.T.  
DRAWN: B.R. DATE: JULY, 1994 NO. H-121  
**LOCATION NO. 3**

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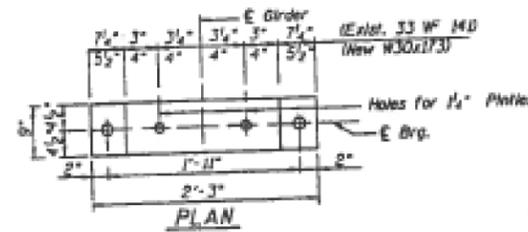
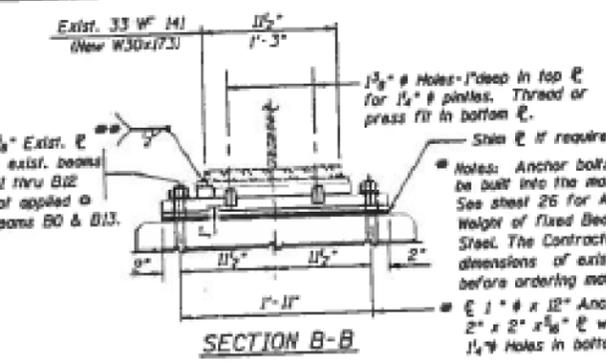
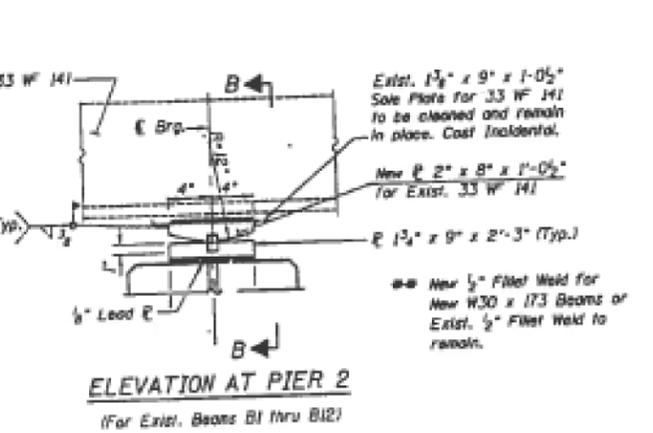
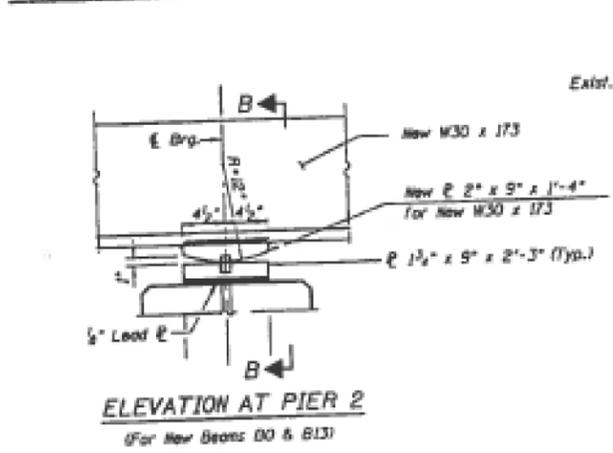
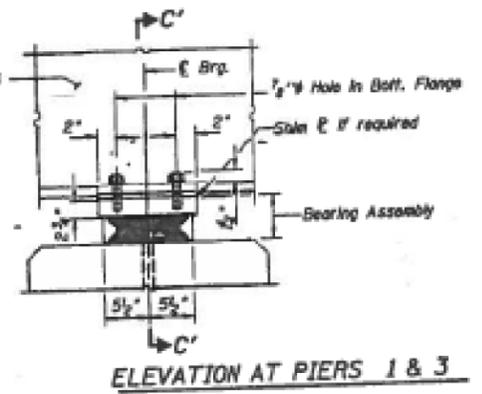
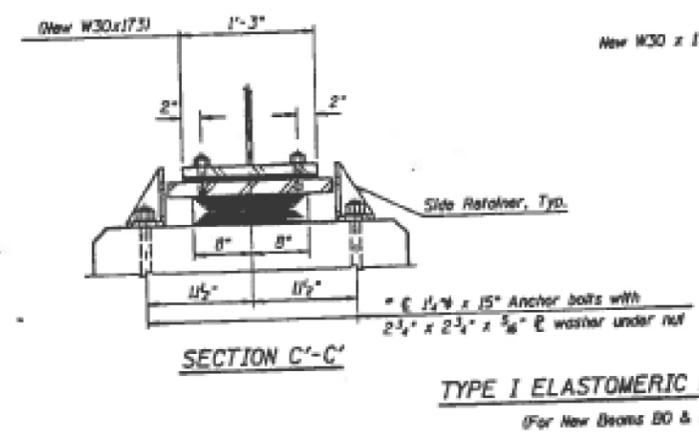
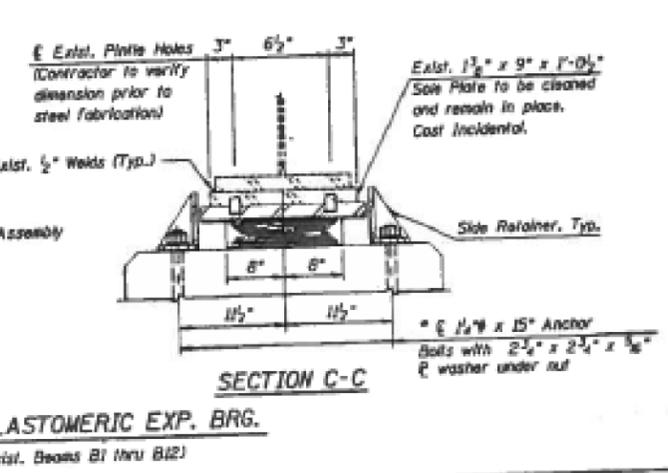
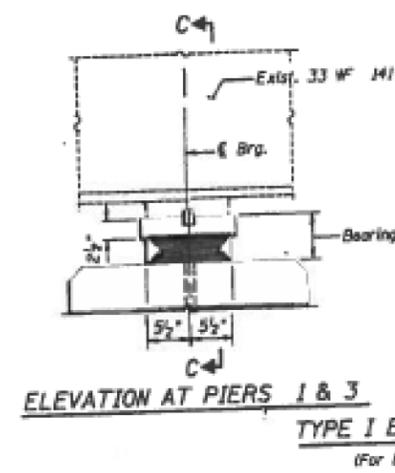
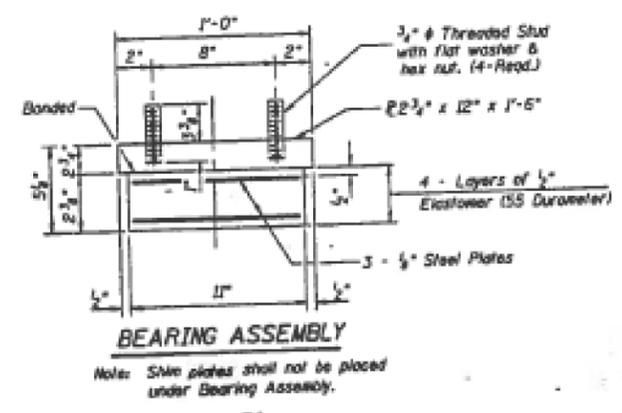
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**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	28
Elastomeric Bearing Assembly, Type II	Each	28



**BEARING DETAILS II**  
 F.A.I. ROUTE 270 OVER N.B.S.R.R.  
 AND COUNTY HIGHWAY 67  
 F.A.I. ROUTE 270, SECTION 60-5VHR-Y  
 STA. 796+28.69  
 MADISON COUNTY  
 STR. NO. 060-0055 (W.B.)  
 STR. NO. 060-0056 (E.B.)  
 HSIUNG ASSOCIATES LTD.  
 DESIGNED: P.Y.L. CHECKED: F.T.T.  
 DRAWN: B.R. DATE: JULY, 1994 NO. H-121  
 LOCATION NO. 3

FYI ONLY NOT TO SCALE

MODEL: 14061.MXMTS FILE: 14061.DWG DATE: 12/4/2017

USER NAME = manntm	DESIGNED -	REVISED -
DRAWN -	REVISED -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/4/2017	DATE -	REVISED -

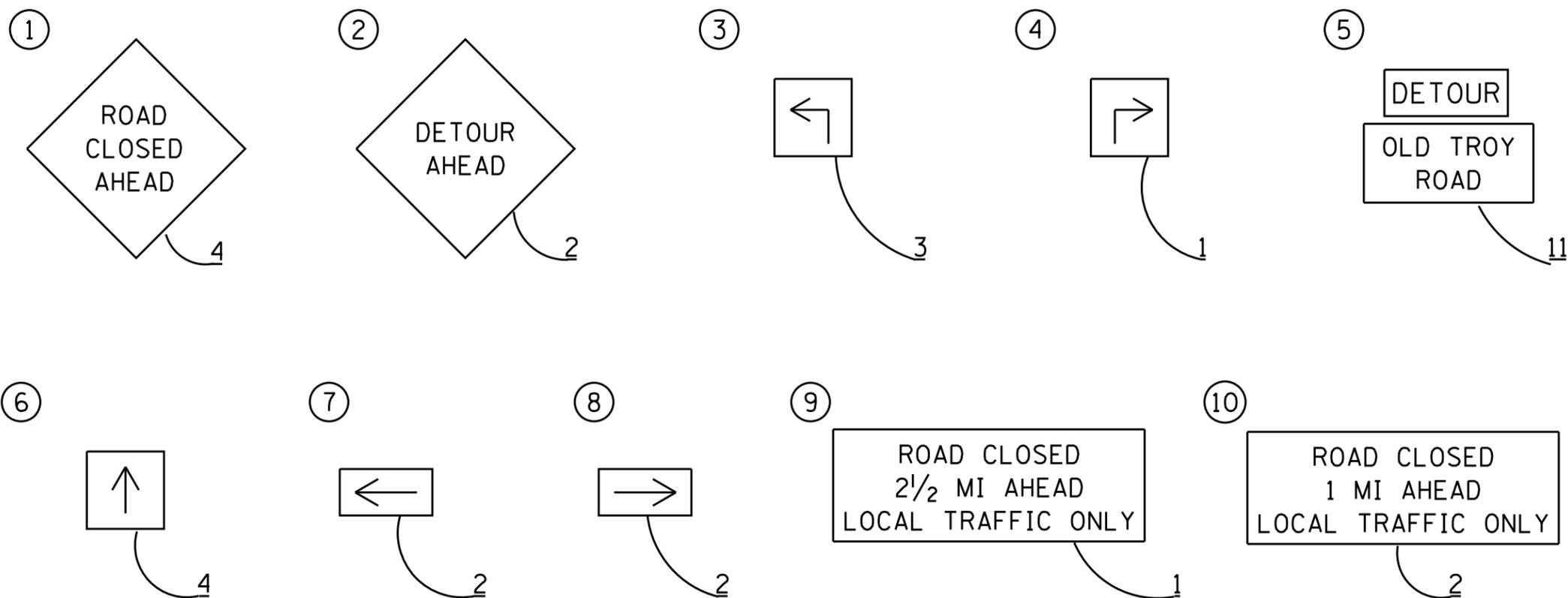
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

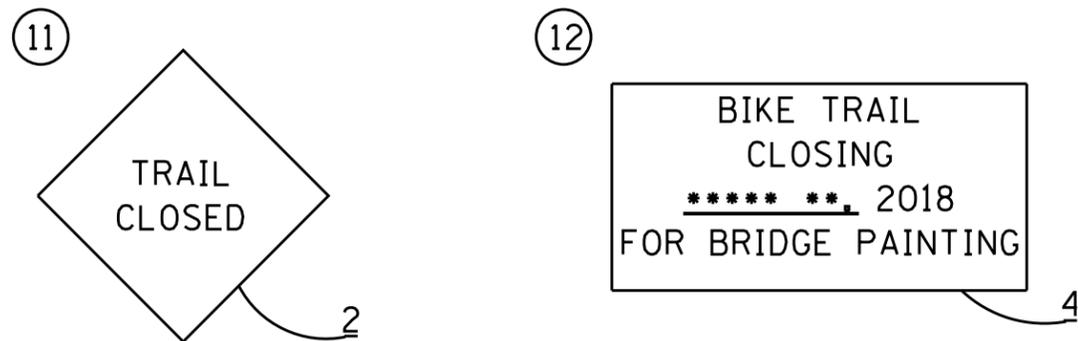
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-5B-1	MADISON	11	9
			CONTRACT NO. 76L39	
		ILLINOIS	FED. AID PROJECT	

DETOUR SIGNS FOR OLD TROY ROAD CLOSURE



- NOTES FOR OLD TROY ROAD DETOUR
1. ALL SIGNS SHALL BE CONTRACTOR PROVIDED.
  2. SIGNS SHALL BE PLACED ACCORDING TO THE DETOUR ROUTE.

SIGNS FOR MCT GOSHEN TRAIL CLOSURE



- NOTES FOR MCT GOSHEN TRAIL CLOSURE
1. ALL SIGNS SHALL BE CONTRACTOR PROVIDED.
  2. CLOSURE NOTICES SHALL BE POSTED TWO WEEKS PRIOR TO TRAIL CLOSURE. CLOSURE NOTICES SHALL BE POSTED ON THE SIDE OF THE TRAIL, 100' IN ADVANCE OF THE STRUCTURE AND AT THE TRAILHEAD PARKING LOTS LOCATED NORTH (MONT STATION) AND SOUTH (IL 162) OF THE CLOSURE.
  3. TYPE 3 BARRICADES WITH "TRAIL CLOSED" SIGNS SHALL BE PLACED AT THE SOUTH END OF THE TUNNEL UNDER OLD TROY ROAD AND AT THE TRAIL INTERSECTION TO THE NORTH.
  4. THE CONTRACTOR SHALL NOTIFY MCT TWO WEEKS PRIOR TO TRAIL CLOSURE.

MODEL: \\MODEL\NAMES  
FILE: \\NAMES

USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/4/2017	DATE -	REVISED -

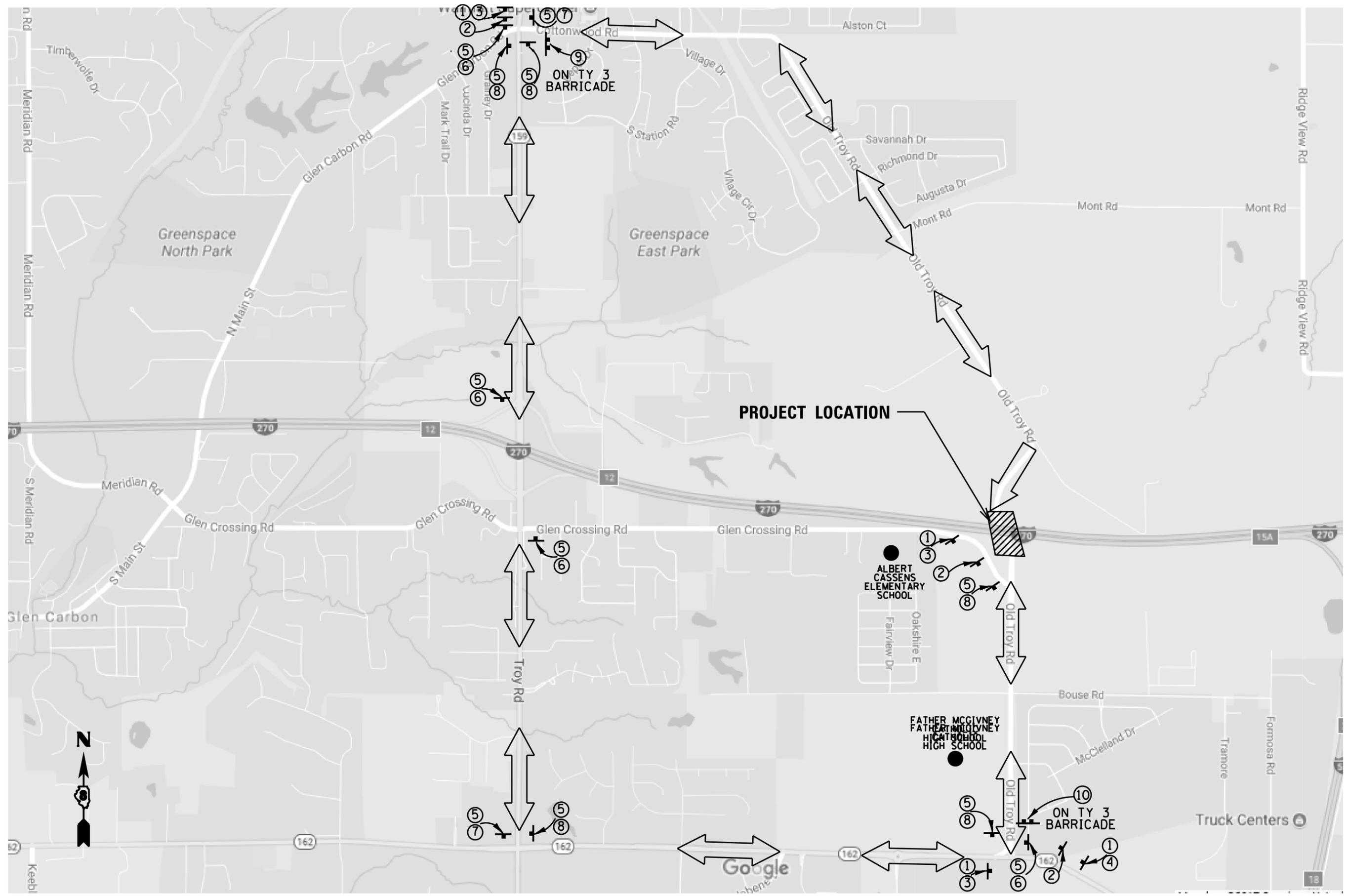
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING FOR OLD TROY ROAD DETOUR  
GOSHEN TRAIL CLOSURE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-5BP-1	MADISON	11	10
			CONTRACT NO. 76L39	
ILLINOIS FED. AID PROJECT				

MODEL: \\MODELS\MAME...  
 FILE: \\MAILS\...  
 PROJECT: 0876139\CAD\DATA\CAD\hearts0876139\hearts0876139.dwg



USER NAME = manntm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/4/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DETOUR ROUTE FOR  
 OLD TROY ROAD CLOSURE**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-58P-1	MADISON	11	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L39	