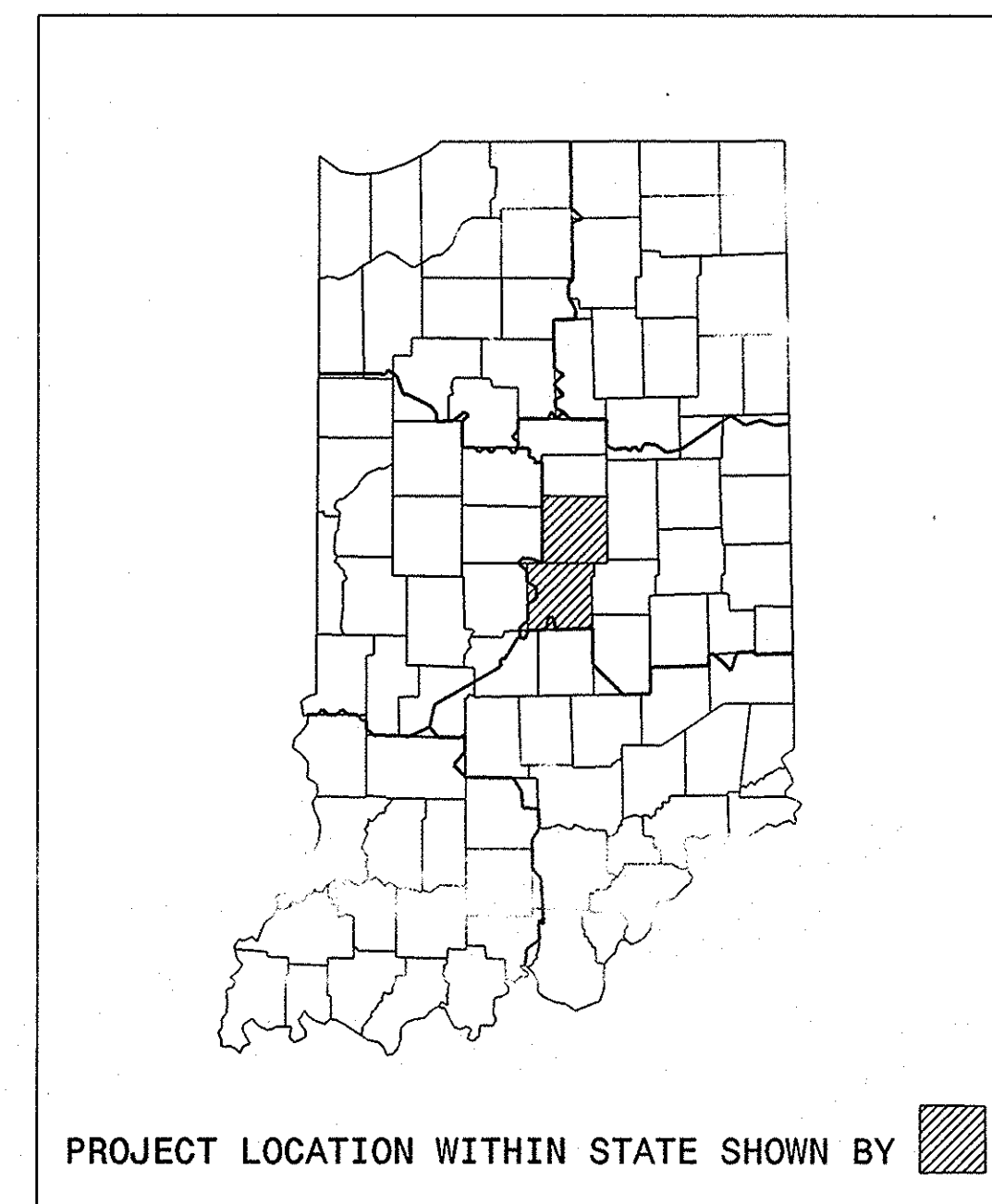


PROJECT	DESIGNATION
See Below	See Index
CONTRACT	BRIDGE FILE
B-26023	See Index

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS FOR SPANS OVER 20 FEET

ROUTE: I-465 AT: RP 29+051 I465-132-5282B
ROUTE: 421X AT: RP 93+029 (421X)421-49-4463B
ROUTE: I-465 AT: RP 32+042 I465-129-5277C
ROUTE: I-65 AT: RP 124+042 I65-124-4285 ENBL
ROUTE: I-70 AT: RP 72+107 I70-73-4647 DREC
ROUTE: I-465 AT: RP 36+087 I465-125-5270JC SB
ROUTE: I-65 AT: RP 121+044 I65-121-4843C



INDEX					
STRUCTURE	TYPE	SPAN AND SKEW	UNDER	STATION	DES. NO.
I465-132-5282B	Composite Continuous Steel Beam	45'-6", 91'-0", 91'-0", 45'-6" 44°00' Right	Under West 96th Street	50 + 00 Line S-14-A	0101000
(421X)421-49-4463B	Reinforced Concrete Girder & Continuous Steel Beam	34'-0", 74'-0", 74'-0", 34'-0" No Skew	Under Hunter Road	13 + 00 Line S-1-A	0101049
I465-129-5277C	Composite Continuous Steel Beam	32'-0", 69'-6", 69'-6", 32'-0" 20°24'40" Right	Under Westfield Boulevard	50 + 00 Line S-SR-431A	0101050
I65-124-4285 ENBL	Composite Continuous Steel Beam	38'-11 1/2", 69'-6", 69'-6", 38'-11 1/2" 20°00' Right	Over West 71st Street & Bushs' Run	705 + 06.11 P.R. Line E	0101087
I70-73-4647 DREC	Reinforced Concrete Girder & Continuous Steel Beam	34'-0", 65'-3", 65'-3", 42'-0" 5°16'03" Left	Directional Ramp over from I-465 NB to I-70 WB over I-70	16 + 01.49 Line "N.E.L."	0101088
I465-125-5270JC SB	Continuous Composite Steel Beam	102'-6", 102'-6" 5°38'58" Left	Over I-69 / Binford Blvd.	1007+26.17 Line "A"	0101118
I65-121-4843C	Reinforced Concrete Girder & Continuous Steel Beam	35'-6", 73'-0", 73'-0", 35'-6" 27°15' Left	Under West 52nd Street	50 + 00.58 Line "S-2-A"	0101209

B-26023

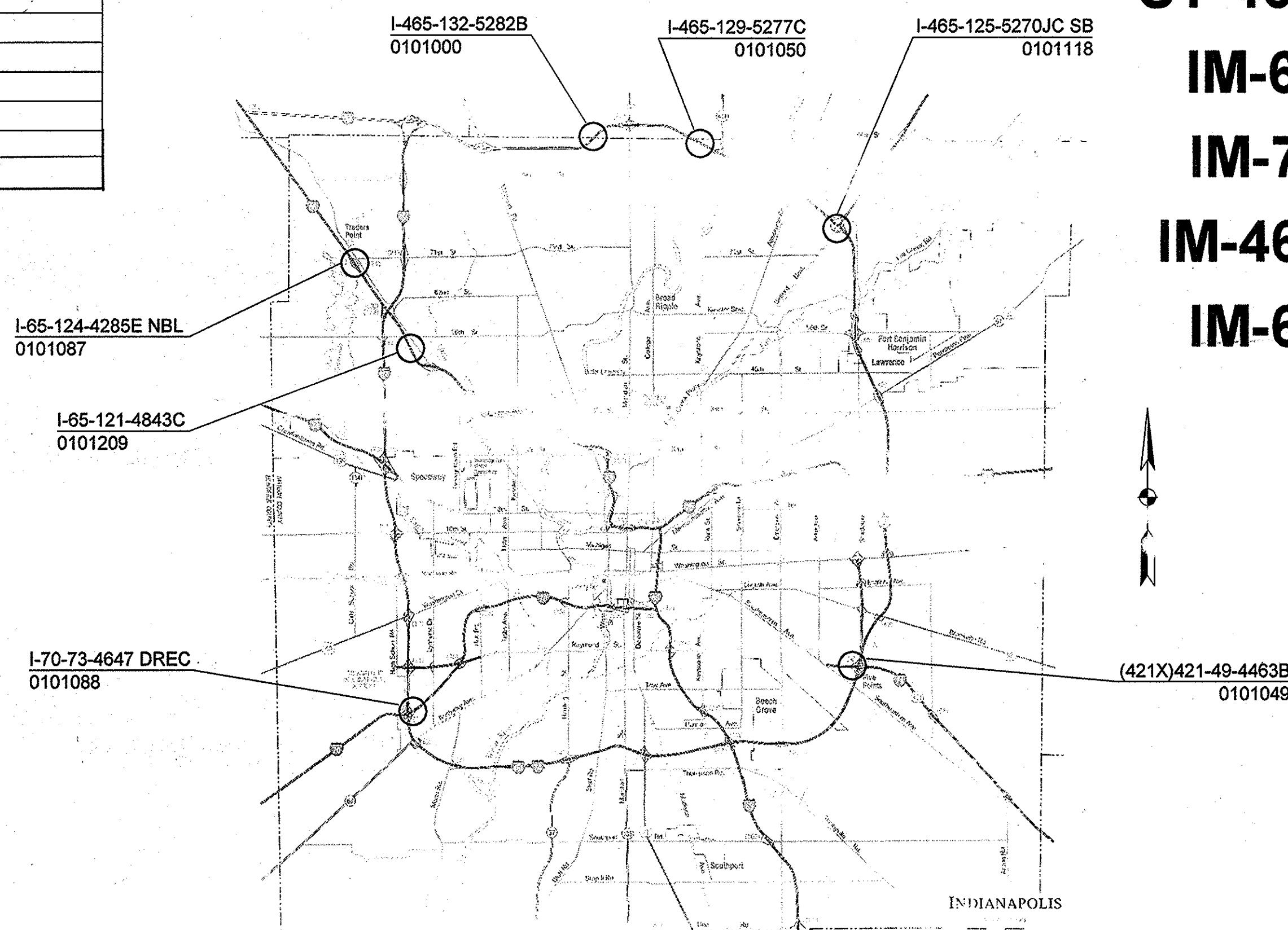
SHEET NO.	SUBJECT
1	Index and Title Sheet
2	Structural Details for I-465-132-5282B
3	Structural Details for (421X)421-49-4463B
4	Structural Details for I-465-129-5277C
5	Structural Details for I-65-124-4285 ENBL
6	Structural Details for I-70-73-4647 DREC
7	Structural Details for I-465-125-5270JC SB
8	Structural Details for I-65-121-4843C
9	Bridge Summary
2A	Structural Details for I-465-132-5282B
2-1	Structural Details for I-465-132-5282B

PROJECT NOS.

IM-465-4(360) CONST. I465-132-5282B
ST-135-1(00C) CONST. (421X)421-49-4463B
ST-465-4(0JU) CONST. I465-129-5277C
IM-65-3(00F) CONST. I65-124-4285 ENBL
IM-70-3(221) CONST. I70-73-4647 DREC
IM-465-4(360) CONST. I465-125-5270JC SB
IM-65-3(290) CONST. I65-121-4843C

LATITUDE: 39°55'36"	LONGITUDE: 86°10'42"
LATITUDE: 39°43'54"	LONGITUDE: 86°03'00"
LATITUDE: 39°55'30"	LONGITUDE: 86°07'36"
LATITUDE: 39°52'48"	LONGITUDE: 86°17'30"
LATITUDE: 39°42'42"	LONGITUDE: 86°15'48"
LATITUDE: 39°53'42"	LONGITUDE: 86°03'12"
LATITUDE: 39°50'42"	LONGITUDE: 86°15'48"

BEAM STRAIGHTENING, DIAPHRAGM REPLACEMENT, AND OTHER WORK ON BRIDGES AT SEVEN LOCATIONS WITHIN MARION COUNTY, INDIANA.



Note: Whenever IM-465-4(360) appears on these plans or contract documents it shall be interpreted as ST-465-4(V) for structure number I465-132-5282B and ST-465-4(JW) for structure number I465-125-5270 JC SB.

Note: Whenever IM-70-3(221) appears on these plans or contract documents it shall be interpreted as ST-70-3(K).

Note: Whenever IM-65-3(290) appears on these plans or contract documents it shall be interpreted as ST-65-3(I).

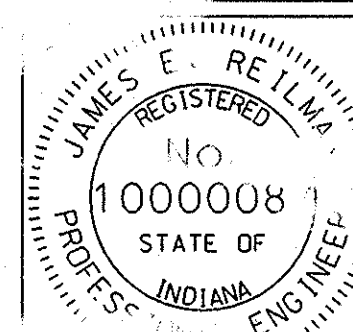
General Note

* All travel lanes above a bridge shall be completely open and free of debris at the conclusion of work each day.

** The applicable lane and/or shoulder of the superstructure shall be closed when heat straightening the beam(s) beneath the respective lane/shoulder.

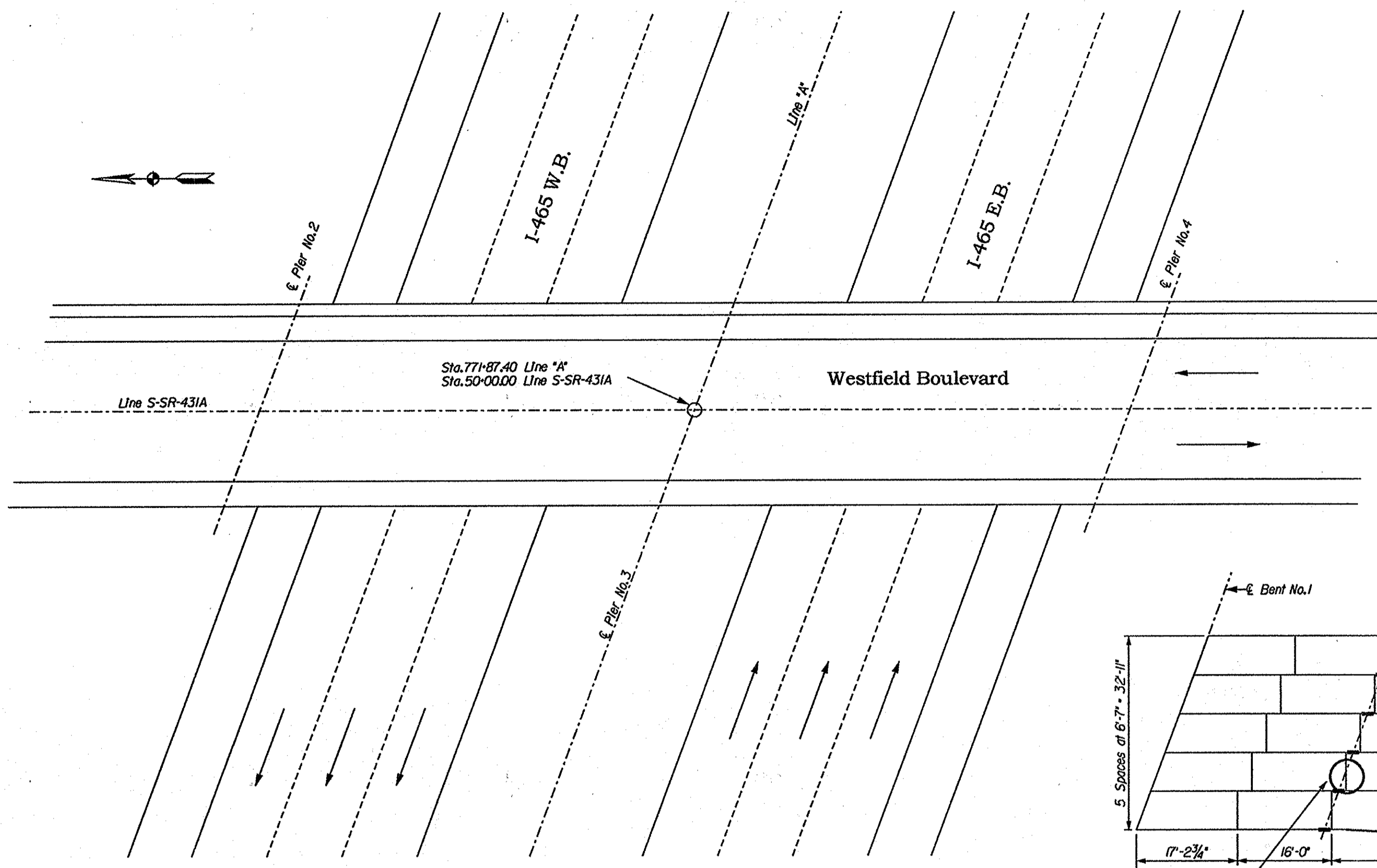
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 1999
TO BE USED WITH THESE PLANS

REVISIONS	
DATE	SHEET NO.
3/26/02	1, 4, DELETE 2, ADD SHEET 2A, 2-1

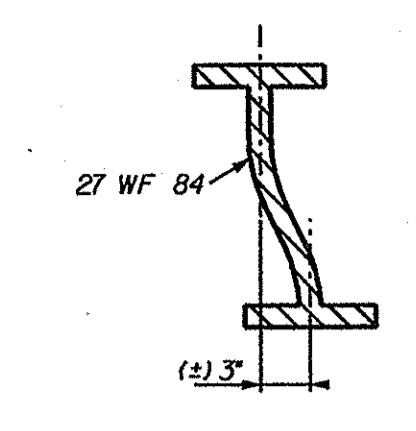


PLANS PREPARED BY: **Jim Reilman, P.E.** (317) 232-5157
 PHONE NUMBER
 DATE: 11/5/01
 DATE: 11/21/2001
 DATE

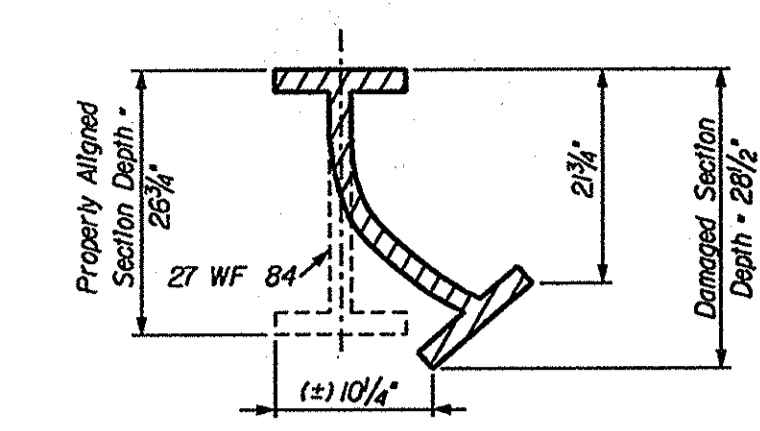
BRIDGE FILE	See Index
DESIGNATION	See Index
SHEET	1 of 9
PROJECT	See Above



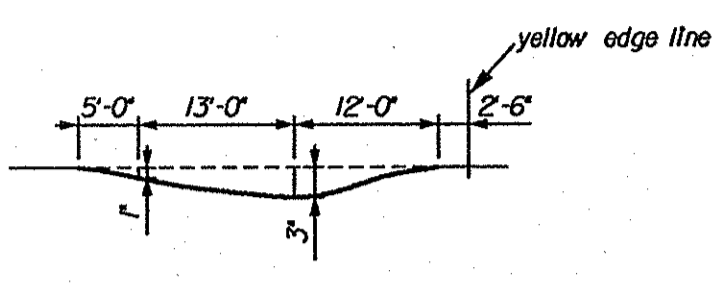
Plan
Scale: 1/16" = 1'-0"



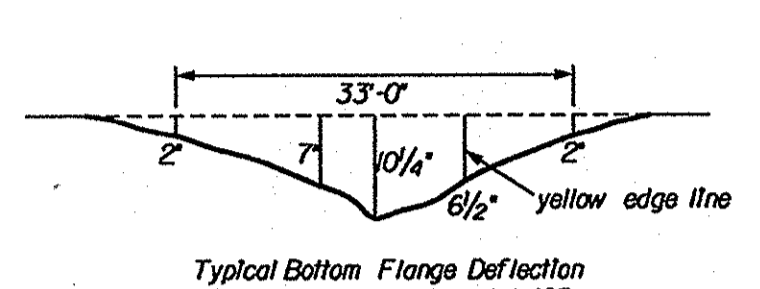
Section A-A
(Approximate Section at Impact Point)
Not to Scale



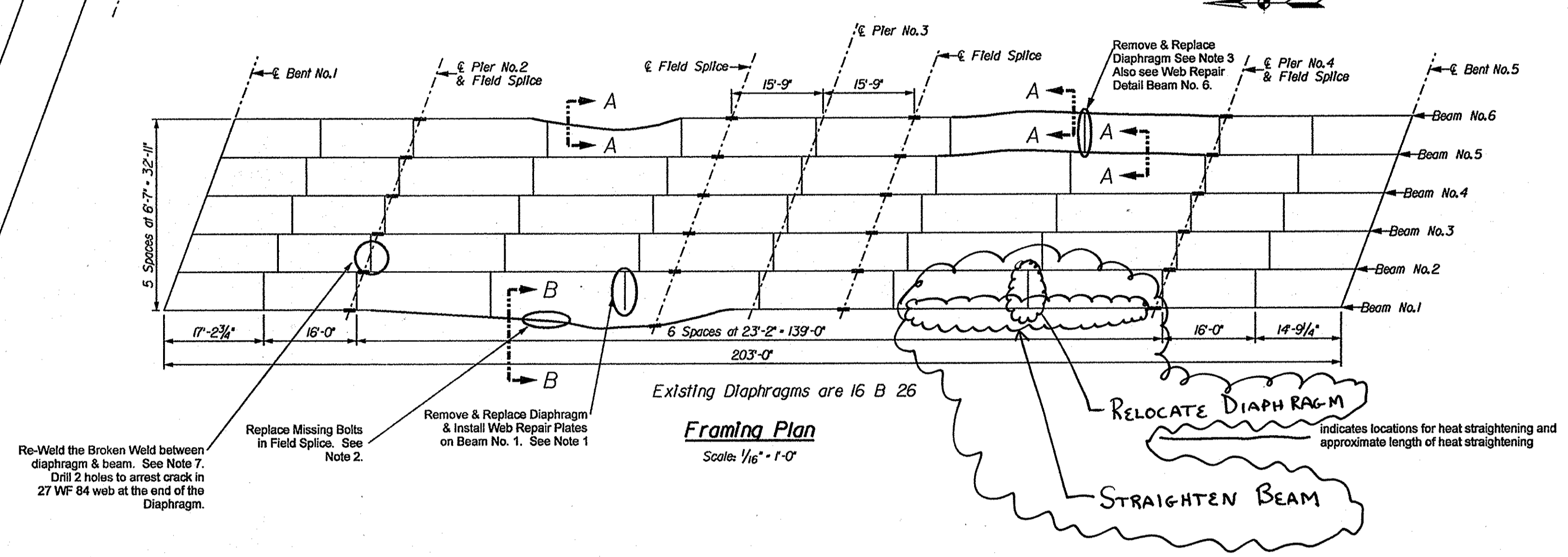
Section B-B
(Approximate Section at Impact Point)
Not to Scale



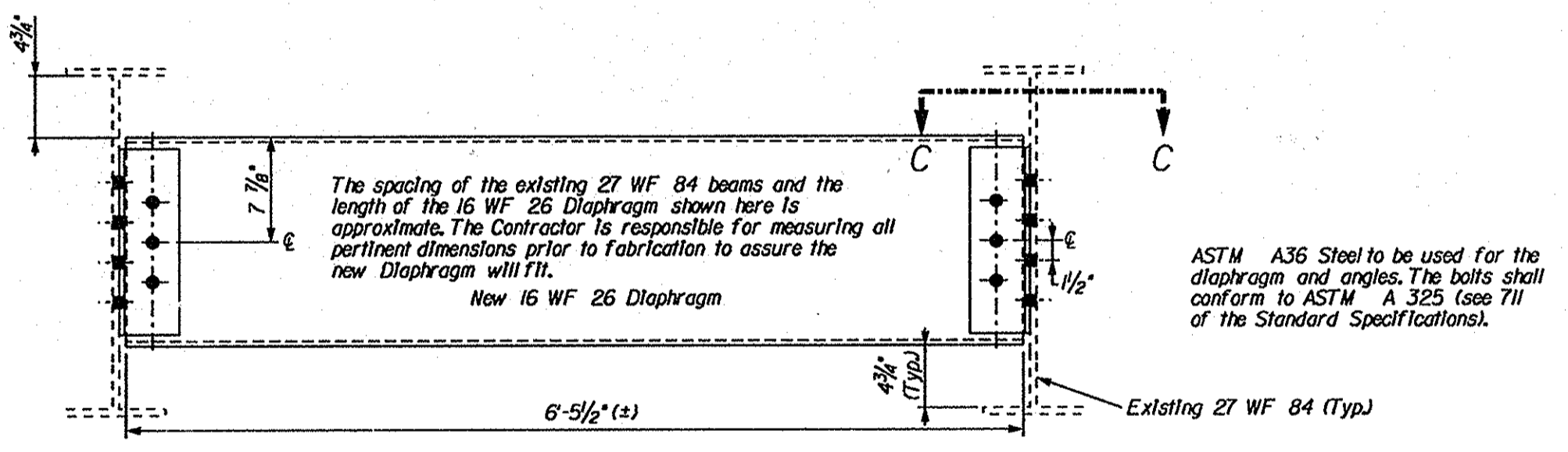
Typical Bottom Flange Deflection
Beam 6 above Westbound I-465
Not to Scale



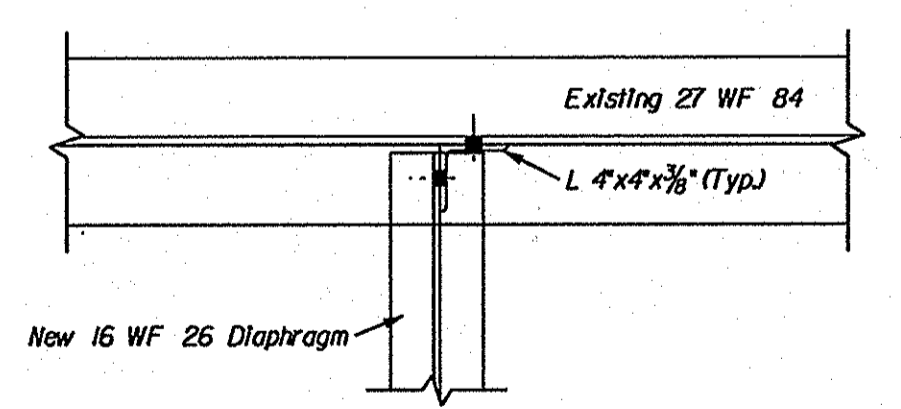
Typical Bottom Flange Deflection
Beam 1 above Westbound I-465
Not to Scale



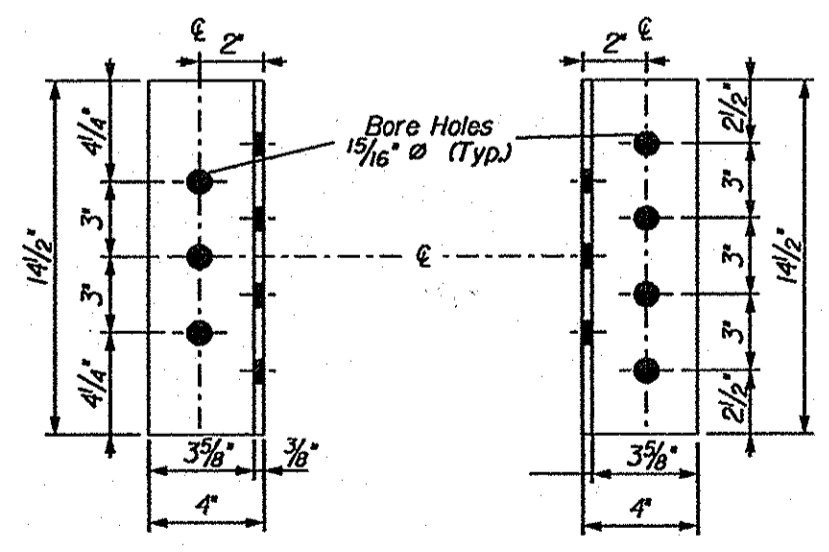
Framing Plan
Scale: 1/16" = 1'-0"



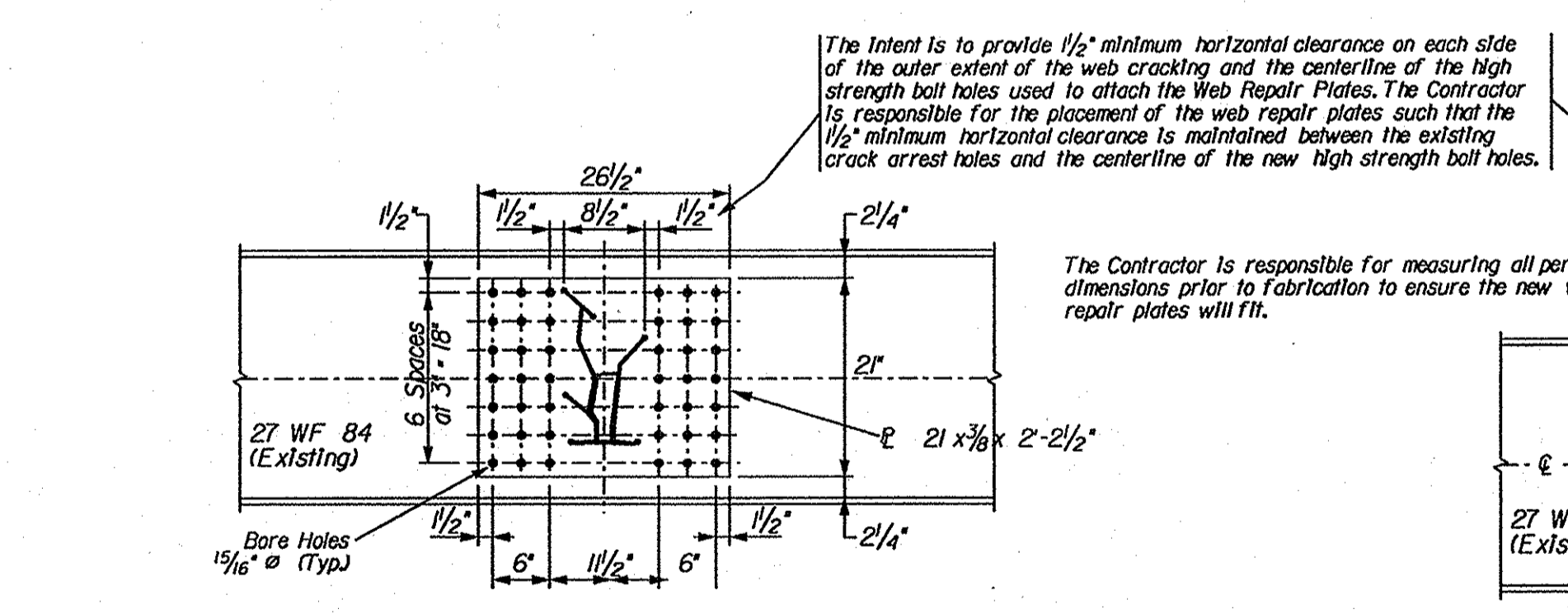
Diaphragm Replacement Details (2 Required)
Not to Scale



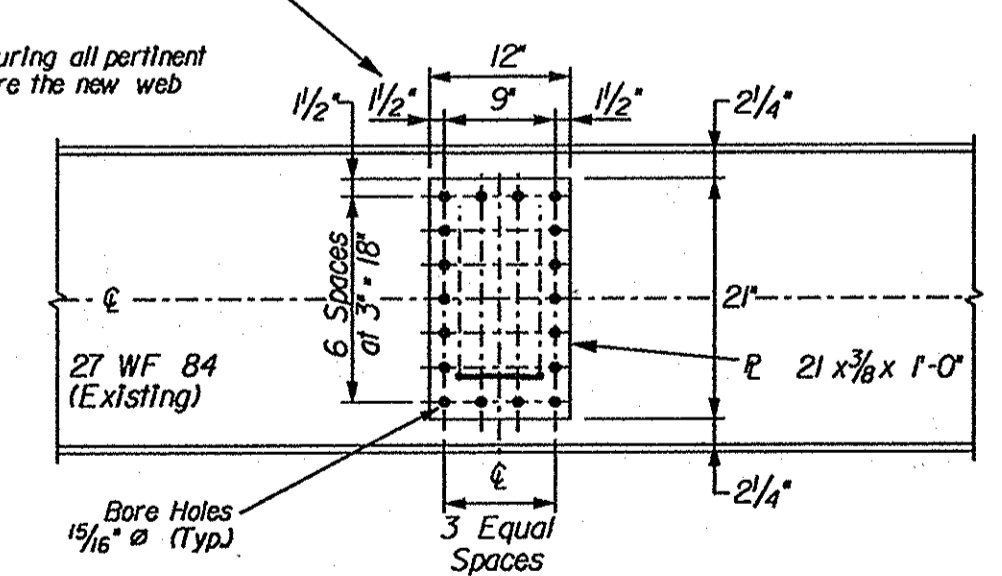
Section C-C
Not to Scale



L 4"x4"x3/8" Details (4 Required)
Not to Scale



Web Repair Plates for Beam No. 1 (2 Required, Each Face)
Not to Scale

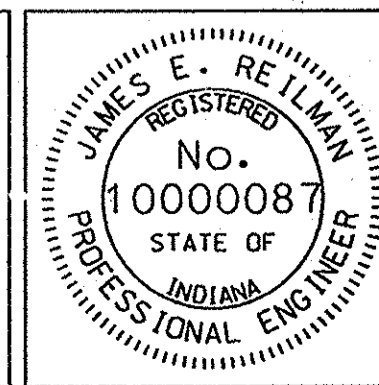


Web Repair Plates for Beam No. 6 (2 Required, Each Face)
Not to Scale

Notes:

1. Remove Existing Diaphragm. Also remove portion of the web of Beam No. 1 that is still welded to the Diaphragm. Heat Straighten Beam No. 1. After straightening, remove any portions of the torn web piece that are not in the same vertical plane as the rest of straightened Beam No. 1. Clean, Prime, and Paint repaired areas and all exposed steel before installing the two web repair plates. Install the web repair plates as detailed in the Web Repair Plates for Beam No. 1 Detail on this sheet. Relocate the new Diaphragm 2 Feet to the North of the location of the original diaphragm.
2. Replace the 5 missing bolts in the existing bottom repair flange splice plate. The bolts should be inserted from the Bottom. In order to provide maximum clearance above the Interstate.
3. Remove existing Diaphragm. Heat Straighten Beam No. 6. After straightening, remove any portions of the torn web piece that are not in the same vertical plane as the rest of straightened Beam No. 6. Clean, Prime, and Paint repaired areas and all exposed steel before installing the two web repair plates. Install the web repair plates as detailed in the Web Repair Plates for Beam No. 6 Detail on this sheet. Relocate the new Diaphragm 2 Feet to the south of the location of the original Diaphragm.
4. All heat straightened areas shall be cleaned, primed, and painted following the heat straightening procedure.
5. All Structural Steel to be ASTM A36 steel.
6. All fasteners (bolts, nuts, etc.) shall be ASTM A325 high strength and 7/8" diameter. Rivets shall NOT be used. The cost of all miscellaneous hardware (bolts, nuts, etc.) to be included in the cost of other items.
7. The Field Welding cost (estimated quantity 1 ft.) shall be included in the cost of other items.
8. Field verify all dimensions prior to ordering Structural Steel.

REVISIONS	
DATE	ITEM
3/26/02	STRAIGHTEN BEAM AND RELOCATE DIAPHRAGM ON BEAM NO. 1 (WEST COPING BEAM) OVER EASTBOUND I-465



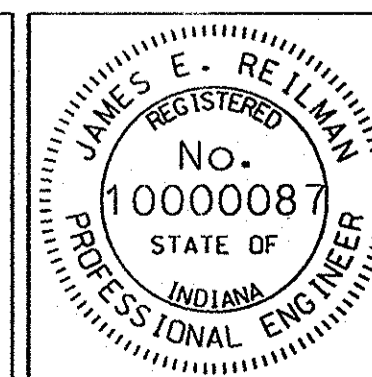
RECOMMENDED FOR APPROVAL	<i>James E. Reilman</i> 11/16/01	DESIGN ENGINEER	DATE
DESIGNED: Reilman July 2001	DRAWN: Reilman Aug. 2001	CHECKED: Carleton Oct. 2001	CHECKED: Carleton Oct. 2001

INDIANA
DEPARTMENT OF TRANSPORTATION

I-465-129-5277C Details
(Westfield Boulevard over I-465)

SCALE	BRIDGE FILE
As Noted	1465-129-5277C
	DESIGNATION
	0101050
SURVEY BOOK	SHEET
None	4 of 9
CONTRACT	PROJECT
B-26023	ST-465-4(OJU)

STRUCTURE QUANTITIES																									
Structure	Concrete				Reinforcing Steel				Structural Steel LS	Quantities shown for Information Only Steel Repair Plates				Heat Straighten (Location) Each	Field Drilled Holes Each	Quantities shown for Information Only				Epoxy Injection		Construction Sign, Type A each	Construction Sign, Type B each	Worksite Speed Limit Sign Assembly each	Flashing Arrow Board each
	Class C	Class A	Railing		Plain lbs	Epoxy-Coated lbs	4 1/4"x1/2"x2'-10" each	21"x3/8"x2'-2 1/2" each		21"x3/8"x1'-0" each	9"x7/8"x1'-6" each	Field Welding ft	16 WF 26 (Diaphragm) each			18 WF 45 (Diaphragm) each	Angle (L 7"x4"x3/8") each	Angle (L 4"x4"x3/8") each	Epoxy Material gal	Crack Preparation ft					
	Superstr. cy	Substr. cy	Class C cy	ft																					
I-465-132-5282B							1	1			6	92	6		12						26				
(421X)421-49-4463B							1				9	54		3							33				
I-465-129-5277C							1		2	2	4	90	1	2		4					28				
I-65-124-4285E NBL							1				2	78			6						21				
I-70-73-4647 DREC							1				1	14		1	2	4	80				17				
I-465-125-5270JC SB							1			2	1	46"		2	4						32				
I-65-121-4843C							1				3	14	2	1	2						21				
Grand Totals							7	1	2	2	2	26	388	3	2	10	3	30	4	80	178				
										The cost for the Repair Plates to be included in the cost of the Structural Steel. No separate payment will be made.										The cost of the Diaphragms, Plates, Angles, Field Welding, and Hardware (bolts, nuts, etc...) is to be included in the cost of other items. No separate payment will be made.					
										* Quantity includes 4 undistributed holes															



RECOMMENDED FOR APPROVAL *James E. Reilman* 11/5/01
DESIGN ENGINEER DATE

DESIGNED: Reilman Aug. 2001 DRAWN: Reilman Sept. 2001
CHECKED: Wampler Oct. 2001 CHECKED: Wampler Oct. 2001

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY OF QUANTITIES

BRIDGE FILE	
See Index	
DESIGNATION	
See Index	
SURVEY BOOK	SHEET
None	9 of 9
CONTRACT	PROJECT
B-26023	See Title Sheet