LOCATION INFORMATION

Structure	DES	Longitutide	Latitude	Section	T - N	R - W	Township
1	1592762	87°27'59"	40°07'07"	5	T-19-N	R-9-W	Highland
2	1592763	87°27'59"	40°07'07"	5	T-19-N	R-9-W	Highland
3	1500622	87°24'25"	40°07'19"	2	T-19-N	R-9-W	Highland & Troy
4	1500623	87°24'25"	40°07'19"	2	T-19-N	R-9-W	Highland & Troy
5	1500664	87°21'36"	40°07'17"	6	T-19-N	R-8-W	Troy
6	1592756	87°19'12"	40°07'31"	4	T-19-N	R-8-W	Troy
7	1592757	87°19'12"	40°07'31"	4	T-19-N	R-8-W	Troy
8	1592768	87°15'31"	40°07'25"	6	T-19-N	R-7-W	Van Buren
9	1592769	87°15'31"	40°07'25"	6	T-19-N	R-7-W	Van Buren
10	1592781	87°15'15"	40°07'26"	6	T-19-N	R-7-W	Van Buren
11	1592784	87°15'15"	40°07'26"	6	T-19-N	R-7-W	Van Buren

Note: Structure #5 Shown in Separate Plans

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET

ROUTE: I-74 AT:

PROJECT NO. P.E.

R/W

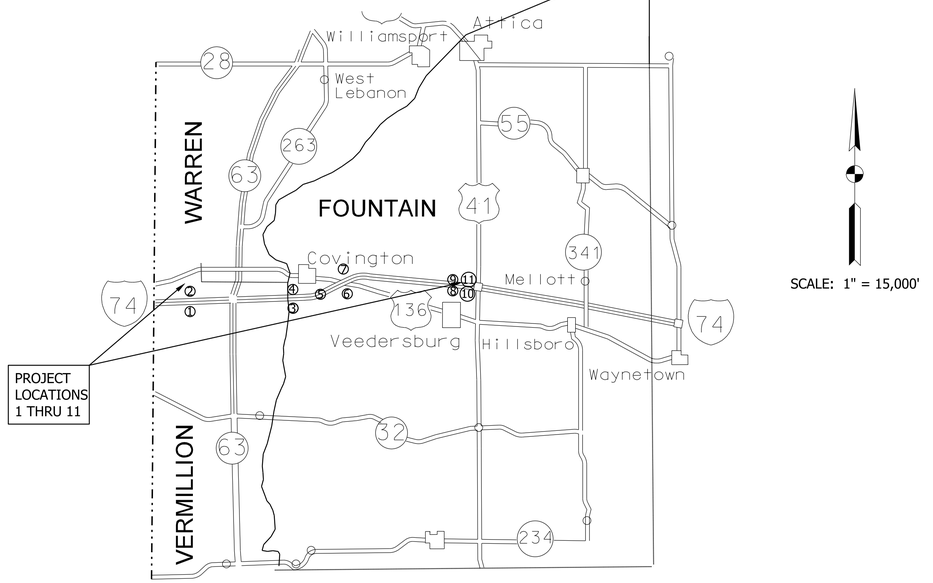
1500622 CONST.

Structure	DES	Bridge File Number	Route and Crossing	Location	RP	County
1	1592762	I74-03-04414 EEBL	I-74 EB over West Fork of Spring Creek	0.79 miles west of SR 63	3+44	Vermillion
2	1592763	I74-03-04414 JEWB	I-74 WB over West Fork of Spring Creek	0.79 miles west of SR 63	3+44	Vermillion
3 *	1500622	I74-06-04417 FEBL	I-74 EB over Wabash River	2.38 miles east of SR 63	6+63	Vermillion
4	1500623	I74-06-04417 GWBL	I-74 WB over Wabash River	2.38 miles east of SR 63	6+63	Vermillion
5	1500664	I74-09-04593 C	Covington/Crawfordsville Rd over I-74	2.10 miles west of US 136	9+17	Fountain
6	1592756	I74-11-02258 DEBL	I-74 EB over US 136	4.17 miles west of US 41	11+27	Fountain
7	1592757	I74-11-02258 DWBL	I-74 WB over US 136	4.17 miles west of US 41	11+27	Fountain
8	1592768	I74-14-04928 EEBL	I-74 EB over Shale Pit Rd & Coal Creek	0.80 miles west of US 41	14+63	Fountain
9	1592769	I74-14-04928 EWBL	I-74 WB over Shale Pit Rd & Coal Creek	0.80 miles west of US 41	14+63	Fountain
10	1592781	I74-14-02333 EEBL	I-74 EB over Abandoned RR & Dry Run	0.57 miles west of US 41	14+86	Fountain
11	1592784	I74-14-02333 EWBL	I-74 WB over Abandoned RR & Dry Run	0.57 miles west of US 41	14+86	Fountain

* Denotes Lead Project

Note: Structure #5 Shown in Separate Plans

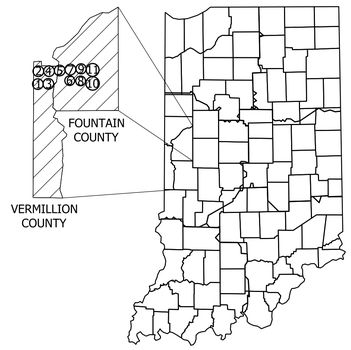
DES 1592762/63/56/57/68/69/81/84 and 1500622/23
Bridge Thin Deck Overlays on I-74 EB/WB in Various Locations in Vermillion and Fountain Counties, Indiana



Fountain and Vermillion Counties

SCALE: 1" = 15,000'

See Sheet 3 for Traffic and Design Information



PROJECT LOCATION SHOWN BY ◯

To Order Existing Bridge Plans on Line
Go To: www.in.gov./indot/2345.htm

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2018
TO BE USED WITH THESE PLANS

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

PLANS PREPARED BY: Gerald W. Whalen, P.E. 765-361-5262 PHONE NUMBER

CERTIFIED BY: Gerald W. Whalen 25-OCT-2017 DATE

APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE
See Tables
DESIGNATION
See Tables

SURVEY BOOK	SHEETS		
	1	of	12
CONTRACT	PROJECT		
B-38657	1500622		

UTILITIES

No Utility Involvement is Anticipated. Refer to Special Provisions for a Complete List of all Utilities Near Each Bridge.

REVISIONS

SHEET NO.	DATE	REVISED

INDEX

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* October 23, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW
CHECKED: LAK CHECKED: LAK

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET

SCALE	BRIDGE FILE
N/A	See Tables
	DESIGNATION
	See Tables

SURVEY BOOK	SHEETS
	2 of 12
CONTRACT	PROJECT
B-38657	1500622

DES 1592762 TRAFFIC DATA		DES 1500622 TRAFFIC DATA		DES 1592756 TRAFFIC DATA		DES 1592768 TRAFFIC DATA		DES 1592781 TRAFFIC DATA	
A.A.D.T. (2018)	9290 V.P.D.	A.A.D.T. (2018)	10,820 V.P.D.	A.A.D.T. (2018)	8630 V.P.D.	A.A.D.T. (2018)	8630 V.P.D.	A.A.D.T. (2018)	8630 V.P.D.
A.A.D.T. (2028) PROJ.	9560 V.P.D.	A.A.D.T. (2028) PROJ.	12,500 V.P.D.	A.A.D.T. (2028) PROJ.	9690 V.P.D.	A.A.D.T. (2028) PROJ.	9690 V.P.D.	A.A.D.T. (2028) PROJ.	9690 V.P.D.
D.H.V. (2028)	678 V.P.H.	D.H.V. (2028)	1030 V.P.H.	D.H.V. (2028)	858 V.P.H.	D.H.V. (2028)	858 V.P.H.	D.H.V. (2028)	858 V.P.H.
DIRECTIONAL DISTRIBUTION	100 %	DIRECTIONAL DISTRIBUTION	100 %	DIRECTIONAL DISTRIBUTION	100 %	DIRECTIONAL DISTRIBUTION	100 %	DIRECTIONAL DISTRIBUTION	100 %
TRUCKS	37.07 % A.A.D.T.	TRUCKS	45.34 % A.A.D.T.	TRUCKS	45.88 % A.A.D.T.	TRUCKS	45.88 % A.A.D.T.	TRUCKS	45.88 % A.A.D.T.
	27.38 % D.H.V.		27.52 % D.H.V.		39.14 % D.H.V.		39.14 % D.H.V.		39.14 % D.H.V.
DES 1592762 DESIGN DATA		**DES 1500622 DESIGN DATA**		**DES 1592756 DESIGN DATA**		**DES 1592768 DESIGN DATA**		**DES 1592781 DESIGN DATA**	
DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH
PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)
FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE
RURAL/URBAN	RURAL	RURAL/URBAN	RURAL	RURAL/URBAN	RURAL	RURAL/URBAN	RURAL	RURAL/URBAN	RURAL
TERRAIN	LEVEL	TERRAIN	LEVEL	TERRAIN	LEVEL	TERRAIN	LEVEL	TERRAIN	LEVEL
ACCESS CONTROL	FULL	ACCESS CONTROL	FULL	ACCESS CONTROL	FULL	ACCESS CONTROL	FULL	ACCESS CONTROL	FULL
DES 1592763 TRAFFIC DATA		**DES 1500623 TRAFFIC DATA**		**DES 1592757 TRAFFIC DATA**		**DES 1592769 TRAFFIC DATA**		**DES 1592784 TRAFFIC DATA**	
A.A.D.T. (2018)	8530 V.P.D.	A.A.D.T. (2018)	10,510 V.P.D.	A.A.D.T. (2018)	8630 V.P.D.	A.A.D.T. (2018)	8630 V.P.D.	A.A.D.T. (2018)	8630 V.P.D.
A.A.D.T. (2028) PROJ.	8780 V.P.D.	A.A.D.T. (2028) PROJ.	12,150 V.P.D.	A.A.D.T. (2028) PROJ.	9690 V.P.D.	A.A.D.T. (2028) PROJ.	9690 V.P.D.	A.A.D.T. (2028) PROJ.	9690 V.P.D.
D.H.V. (2028)	608 V.P.H.	D.H.V. (2028)	983 V.P.H.	D.H.V. (2028)	736 V.P.H.	D.H.V. (2028)	736 V.P.H.	D.H.V. (2028)	736 V.P.H.
DIRECTIONAL DISTRIBUTION	0 %	DIRECTIONAL DISTRIBUTION	0 %	DIRECTIONAL DISTRIBUTION	0 %	DIRECTIONAL DISTRIBUTION	0 %	DIRECTIONAL DISTRIBUTION	0 %
TRUCKS	42.44 % A.A.D.T.	TRUCKS	46.48 % A.A.D.T.	TRUCKS	45.11 % A.A.D.T.	TRUCKS	45.11 % A.A.D.T.	TRUCKS	45.11% A.A.D.T.
	40.65 % D.H.V.		28.03 % D.H.V.		37.99 % D.H.V.		37.99 % D.H.V.		37.99 % D.H.V.
DES 1592763 DESIGN DATA		**DES 1500623 DESIGN DATA**		**DES 1592757 DESIGN DATA**		**DES 1592769 DESIGN DATA**		**DES 1592784 DESIGN DATA**	
DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH	DESIGN SPEED	70 MPH
PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)	PROJECT DESIGN CRITERIA	3R (FREEWAY)
FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE	FUNCTIONAL CLASS	INTERSTATE
RURAL/URBAN	RURAL	RURAL/URBAN	RURAL	RURAL/URBAN	RURAL	RURAL/URBAN	RURAL	RURAL/URBAN	RURAL
TERRAIN	LEVEL	TERRAIN	LEVEL	TERRAIN	LEVEL	TERRAIN	LEVEL	TERRAIN	LEVEL
ACCESS CONTROL	FULL	ACCESS CONTROL	FULL	ACCESS CONTROL	FULL	ACCESS CONTROL	FULL	ACCESS CONTROL	FULL

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* September 18, 2017
DESIGN ENGINEER DATE

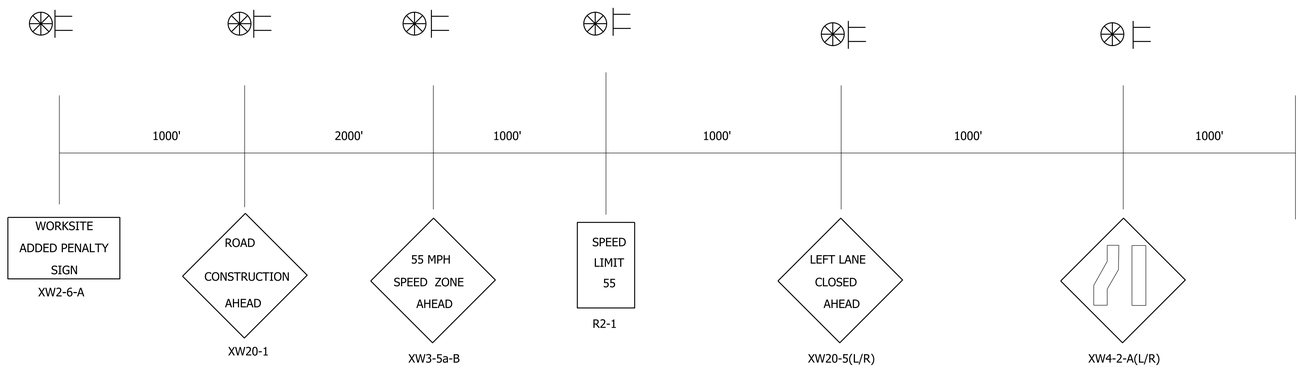
DESIGNED: GWW DRAWN: GWW

CHECKED: LAK CHECKED: LAK

INDIANA
DEPARTMENT OF TRANSPORTATION

TRAFFIC AND DESIGN DATA

SCALE	BRIDGE FILE
None	See Tables
	DESIGNATION
	See Tables
SURVEY BOOK	SHEETS
	3 of 12
CONTRACT	PROJECT
B-38657	1500622



Not Shown: Lane Restriction (Sign, C) - Qty 2
11' Lanes (Sign, D) - Qty 2
Portable Changeable Message Sign - Qty 1

TYPICAL ADVANCED CONSTRUCTION SIGNING

Not to Scale

LEGEND

- Construction Sign and Supports
- Direction of Traffic
- Type A Constant Warning Light (Not a Pay Item)
- Flashing Arrow Sign

SIGN AND MOT TABLE

DES	PAY ITEM DESCRIPTION								
	Construction Sign, Type A	Construction Sign, Type B	Construction Sign, Type C	Construction Sign, Type D	Temporary Traffic Barrier, Type 2, Anchored	Barricade, Type III-A	Flashing Arrow	Portable Changeable Message Signs	Snowplowable Raised Pavement Marker, Remove
DES 1592762	22	2	2	2	210	12	20	1	3
DES 1592763	22	2	2	2	210	12	20	1	3
DES 1500622	22	2	2	2	210	12	20	1	12
DES 1500623	22	2	2	2	210	12	20	1	12
DES 1592756	22	2	2	2	210	12	20	1	5
DES 1592757	22	2	2	2	210	12	20	1	4
DES 1592768	22	2	2	2	210	12	20	1	4
DES 1592769	22	2	2	2	210	12	20	1	4
DES 1592781	22	2	2	2	210	12	20	1	4
DES 1592784	23	2	2	2	210	12	20	1	5
Total	221	20	20	20	2100	120	200	10	56
Unit	Each	Each	Each	Each	LFT	LFT	Days	Each	Each

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

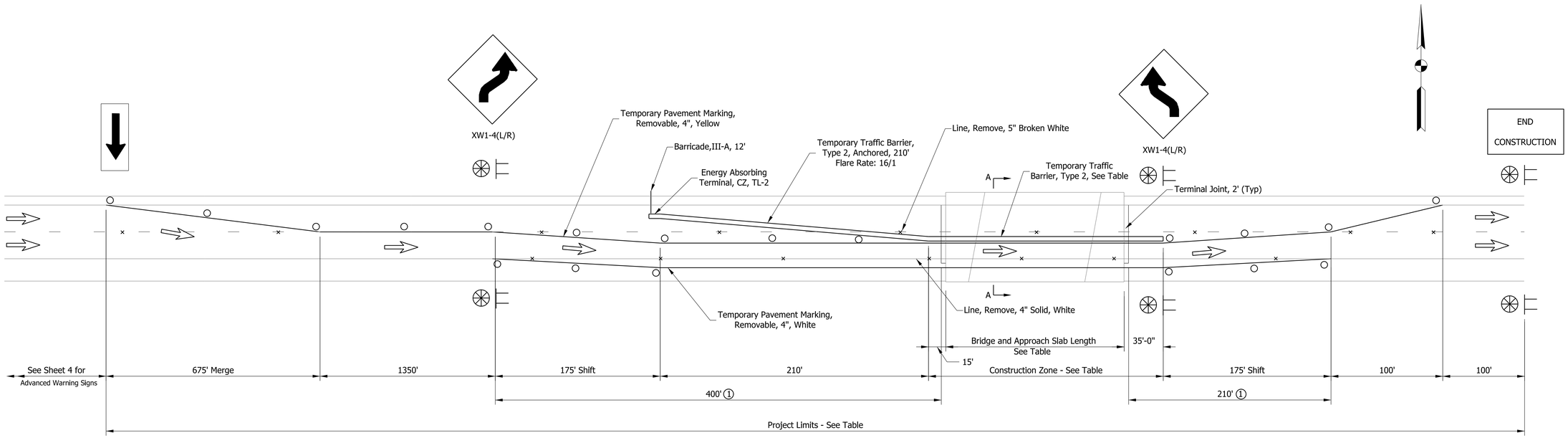
RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* October 23, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW
CHECKED: LAK CHECKED: LAK

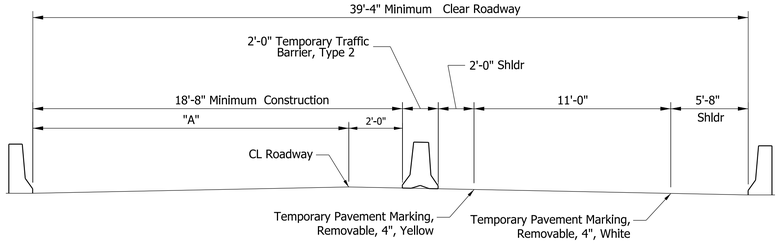
INDIANA
DEPARTMENT OF TRANSPORTATION

ADVANCED WARNING SIGNS

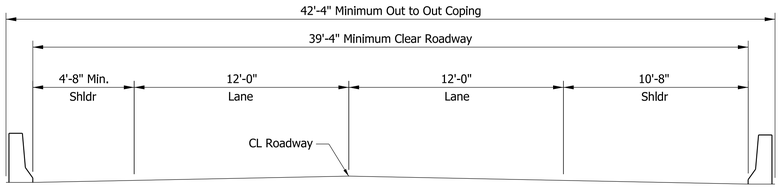
SCALE	BRIDGE FILE
None	See Table
	DESIGNATION
	See Table
SURVEY BOOK	SHEETS
	4 of 12
CONTRACT	PROJECT
B-38657	1500622



Plan
No Scale



Section A - A
No Scale



Typical Section
No Scale

LEGEND

- Construction Sign and Supports
- Direction of Traffic
- Type A Constant Warning Light (Not a Pay Item)
- Channelizing Device
- X — Remove Line
- Flashing Arrow Sign

Notes: This Drawing Shows MOT for DES 1592762, 1500622, 1592756 1592768, and 1592781. MOT Same by Opposite Direction for DES 1592763, 1500623, 1592757, 1592769, and 1592784. After Phase 4 is Complete, Remove any Original Pavement Markings within the Project Limits that have not been Removed for MOT and Replace with New Pavement Markings. See Table for Total Removal and Quantity of New Markings.

For DES 1592784 (WB Bridge at RP 14+86) SB Ramp from US 41 to WB I-74 Shall be Kept Open. Add a "Yield" Sign as Directed by the Engineer at the End of the Ramp and use Channelizing Devices to Allow Traffic from US 41 onto I-74 WB.

(1) A. Remove Existing Rumble Stripes by Milling Asphalt 2" Deep (2' Wide x 1220' Long) = 271 sys.
B. Patch with HMA Patching, Type D = 29.8 Ton.
C. Install Milled HMA Shoulder Corrugations = 1220 LFT. Includes Liquid Asphalt Sealant which Shall be Included in the Cost of the HMA Corrugations
D. 50 Ton of HMA Patching,Type D has been Included for Additional Shoulder Patching for MOT.
E. For DES 150662, 1592762, 1592763, and East End 1500623 Replace HMA in Terminal Joints with HMA Patching, Type D (24' x 2'), 12" Detph = 7.0 Ton for 2 Places and 3.5 Ton for 1 End Only.

INFORMATION TABLE

Des	Clear Roadway	"A"	"B"	Bridge and Approach Slab Length (ft)	Construction Zone (ft)	Project Limits (ft)	Temporary Traffic Barrier, Type 2 (ft)	Temporary Pavement Marking, Removable, 4 in (ft)	Line, Remove (ft)	Line, Multi-Component, Solid, White, 4 in (ft)	Line, Multi-Component, Solid, Yellow, 4 in (ft)	Line, Multi-Component, Broken, White, 5 in (ft)
1592762	40'-8"	18'-0"	22'-8"	195	245	3030	250	11205	6820	3030	3030	760
1592763	40'-8"	18'-0"	22'-8"	195	245	3030	250	11205	6820	3030	3030	760
1500622	39'-4"	16'-8"	22'-8"	1370	1420	4205	1420	18255	9465	4205	4205	1055
1500623	39'-4"	16'-8"	22'-8"	1370	1420	4205	1420	18255	9465	4205	4205	1055
1592756	40'-8"	18'-0"	22'-8"	360	410	3195	410	12195	7190	3195	3195	800
1592757	40'-8"	18'-0"	22'-8"	345	395	3180	400	12105	7155	3180	3180	795
1592768	40'-8"	18'-0"	22'-8"	360	410	3195	410	12195	7190	3195	3195	800
1592769	40'-8"	18'-0"	22'-8"	360	410	3195	410	12195	7190	3195	3195	800
1582781	40'-8"	18'-0"	22'-8"	385	435	3220	440	12345	7245	3220	3220	805
1592784	40'-8"	18'-0"	22'-8"	385	435	3220	440	12345	7245	3220	3220	805

CONSTRUCTION SEQUENCE FOR MAINTENANCE OF TRAFFIC

Phase 1
1. Divert Traffic to Driving Lane
2. Patch Passing Lane and Shoulder. Make Any Required Repairs to Median Bridge Railing.

Phase 2
1. Divert Traffic to Passing Lane
2. Patch Driving Lane and Shoulder. Make Any Required Repairs to Outside Bridge Railing.

Phase 3
1. Traffic Remains in Passing Lane
2. Place Polymeric Overlay on Driving Lane and Shoulder.

Phase 4
1. Divert Traffic to Driving Lane
2. Place Polymeric Overlay on Passing Lane and Shoulder.

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

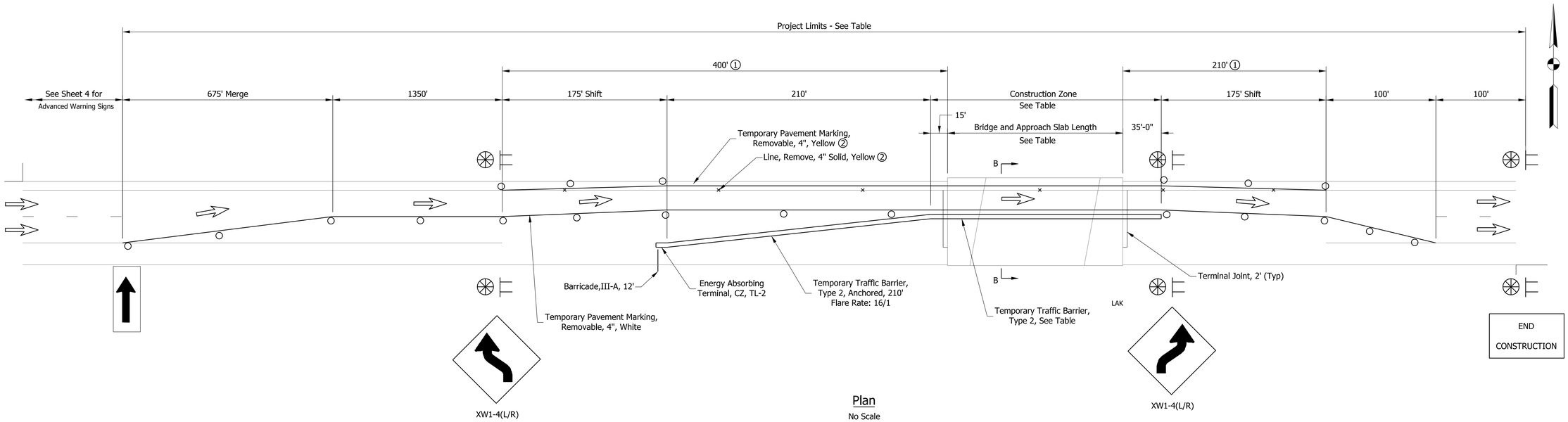
RECOMMENDED FOR APPROVAL Gerald W. Whalen, P.E. September 26, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW
CHECKED: LAK CHECKED: LAK

INDIANA DEPARTMENT OF TRANSPORTATION

MOT PHASE 1 AND 4

SCALE	BRIDGE FILE
As Shown	See Tables
	DESIGNATION
	See Tables
SURVEY BOOK	SHEETS
	5 of 12
CONTRACT	PROJECT
B-38657	1500622

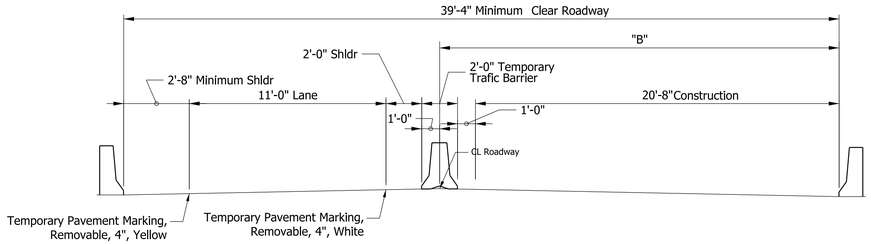


Plan

No Scale

LEGEND

- Construction Sign and Supports
- Direction of Traffic
- Type A Constant Warning Light (Not a Pay Item)
- Channelizing Device
- X — Remove Line
- Flashing Arrow Sign



Section B - B

No Scale

INFORMATION TABLE

Des	Clear Roadway	"A"	"B"	Bridge and Approach Slab Length (ft)	Construction Zone (ft)	Project Limits (ft)	Temporary Traffic Barrier, Type 2 (ft)	Temporary Pavement Marking, Removable, 4 in (ft)	Line, Remove (ft)	Line, Multi-Component, Solid, White, 4 in (ft)	Line, Multi-Component, Solid, Yellow, 4 in (ft)	Line, Multi-Component, Broken, White, 5 in (ft)
1592762	40'-8"	18'-0"	22'-8"	195	245	3030	250	11205	6820	3030	3030	760
1592763	40'-8"	18'-0"	22'-8"	195	245	3030	250	11205	6820	3030	3030	760
1500622	39'-4"	16'-8"	22'-8"	1370	1420	4205	1420	18255	9465	4205	4205	1055
1500623	39'-4"	16'-8"	22'-8"	1370	1420	4205	1420	18255	9465	4205	4205	1055
1592756	40'-8"	18'-0"	22'-8"	360	410	3195	410	12195	7190	3195	3195	800
1592757	40'-8"	18'-0"	22'-8"	345	395	3180	400	12105	7155	3180	3180	795
1592768	40'-8"	18'-0"	22'-8"	360	410	3195	410	12195	7190	3195	3195	800
1592769	40'-8"	18'-0"	22'-8"	360	410	3195	410	12195	7190	3195	3195	800
1582781	40'-8"	18'-0"	22'-8"	385	435	3220	440	12345	7245	3220	3220	805
1592784	40'-8"	18'-0"	22'-8"	385	435	3220	440	12345	7245	3220	3220	805

① A. Remove Existing Rumble Stripes by Milling Asphalt 2" x 2' Wide x 1220' Long = 271 sys.
B. Patch with HMA Patching, Type D = 29.8 Ton.
C. Install Milled HMA Shoulder Corrugations = 1220 LFT. Includes Liquid Asphalt Sealant which shall be Included in the Cost of the HMA Corrugations.
D. 50 Ton of HMA Patching,Type D has been Included for Additional Shoulder Patching for MOT.
E. For DES 150662, 1592763, 1592781, and 1592784 Replace HMA in Terminal Joints with HMA Patching, Type D 24' x 2' x 1' = 1.2 Ton.

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* September 26, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW
CHECKED: LAK CHECKED: LAK

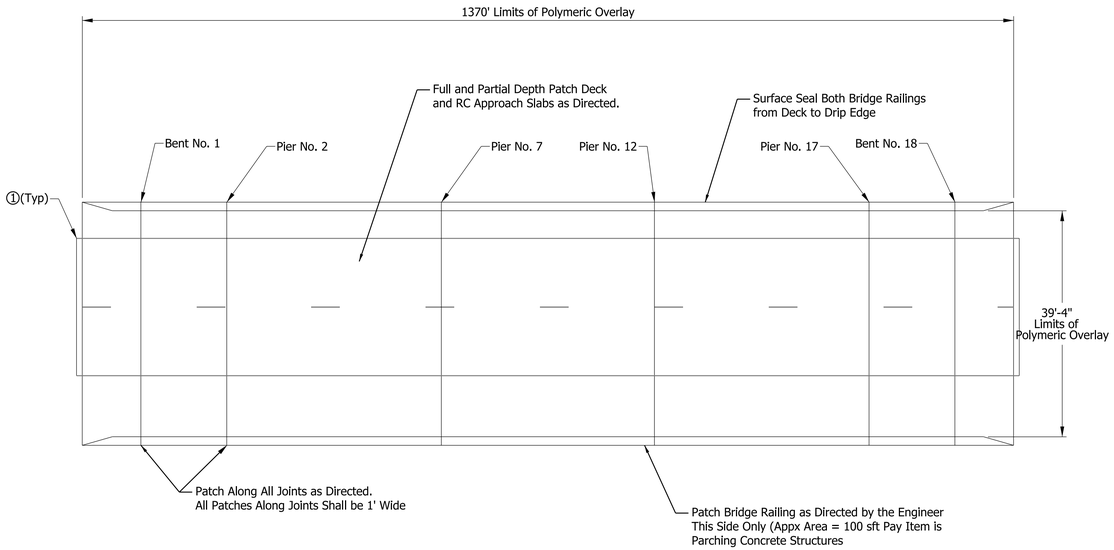
INDIANA
DEPARTMENT OF TRANSPORTATION

MOT PHASE 2 AND 3

SCALE	BRIDGE FILE
As Shown	See Sheet 3
	DESIGNATION
	See Table
SURVEY BOOK	SHEETS
	6 of 12
CONTRACT	PROJECT
B-38657	1500622

Structure No.:	**3**	Des:	**1500622**
Bridge File:	**I74-06-04417 FEBL**		
Work Type:	**Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs**		
Applicable Plan Details:	**Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02**		
Maintenance of Traffic:	**Interstate Single Lane Closure per MOT Drawings.**		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	5990
Bridge Deck Patching, Partial Depth	SFT	787
Bridge Deck Patching, Full Depth	SFT	262
Surface Seal Bridge Railings (Est, 3300 sys)	LS	1
Patching Concrete Structures (South Bridge Railing)	SFT	100
Replace HMA in Terminal Joints with HMA Patching, Type D	TON	7
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	80*



Note: There are Type, I-A Joints at Bents 1 & 18. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay. There are Type, SS Joints at Piers 2, 7, 12, & 17. They are to Remain in Place.

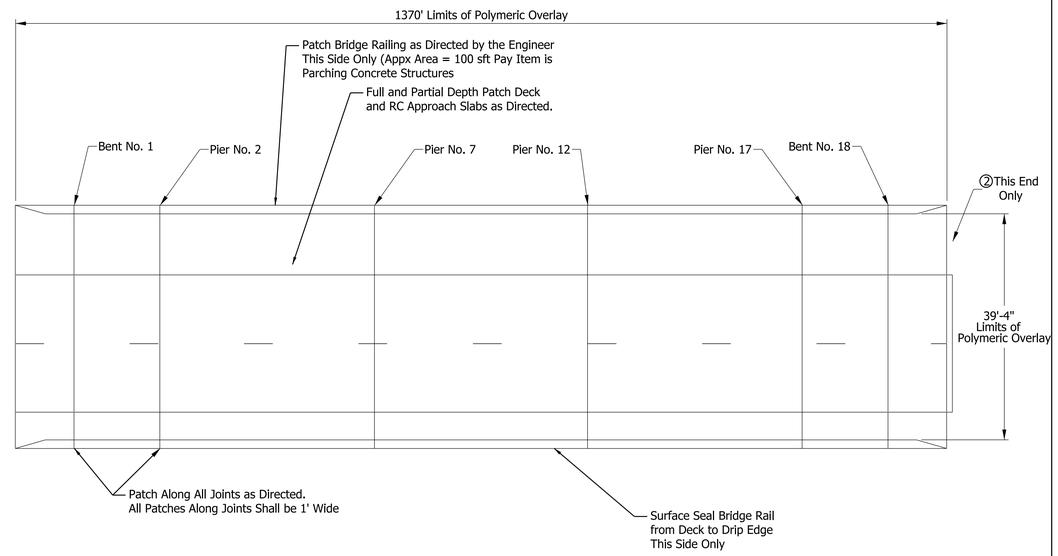
① Replace HMA in Terminal Joint with HMA Patching, Type D 24' x 2', 12" Deep (2 Places)

DETAILS DES 1500622

No Scale

Structure No.:	**4**	Des:	**1500623**
Bridge File:	**I74-06-04417 GWBL**		
Work Type:	**Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs**		
Applicable Plan Details:	**Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02**		
Maintenance of Traffic:	**Interstate Single Lane Closure per MOT Drawings.**		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	5990
Bridge Deck Patching, Partial Depth	SFT	533
Bridge Deck Patching, Full Depth	SFT	262
Surface Seal Bridge Railings (Est, 16500 sys)	LS	1
Patching Concrete Structures (South Bridge Railing)	SFT	100
Replace HMA in East Terminal Joint Only with HMA Patching, Type D	TON	3.5
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	80*
* Not a Pay Item. To be Included in Cost of Polymeric Overlay		



Note: There are Type, I-A Joints at Bents 1 & 18. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay. There are Type, SS Joints at Piers 2, 7, 12, & 17. They are to Remain in Place.

② Replace HMA in Terminal Joint with HMA Patching, Type D 24' x 2', 12" Deep (1 Place)

DETAILS DES 1500623

No Scale

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* November 15, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW

CHECKED: LAK CHECKED: LAK

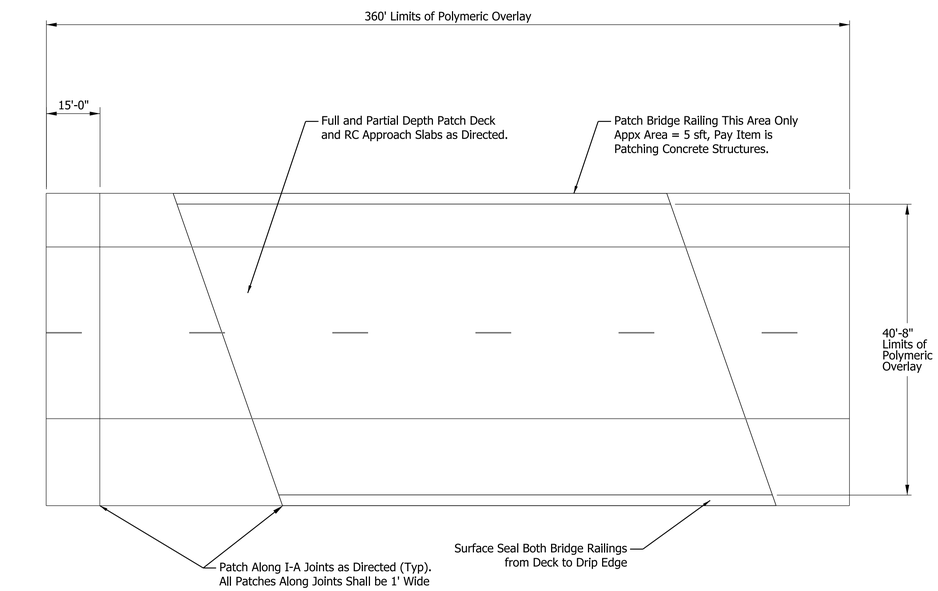
INDIANA
DEPARTMENT OF TRANSPORTATION

DETAILS DES 1500622 AND DES 1500623

SCALE	BRIDGE FILE
As Shown	I74-06-04417 FEBL/GWBL
	DESIGNATION
	1500622 and 1500623
SURVEY BOOK	SHEETS
	7 of 12
CONTRACT	PROJECT
B-38657	1500622

Structure No.:	6	Des:	1592756
Bridge File:	I74-11-02258 DEBL		
Work Type:	Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs		
Applicable Plan Details:	Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02		
Maintenance of Traffic:	Interstate Single Lane Closure per MOT Drawings.		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1627
Bridge Deck Patching, Partial Depth	SFT	112
Bridge Deck Patching, Full Depth	SFT	57
Surface Seal Bridge Railings (Est,800 sys)	LS	1
Patching Concrete Structures (North Bridge Railing)	SFT	5
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	127*
* Not a Pay Item. To be Included in Cost of Polymeric Overlay		



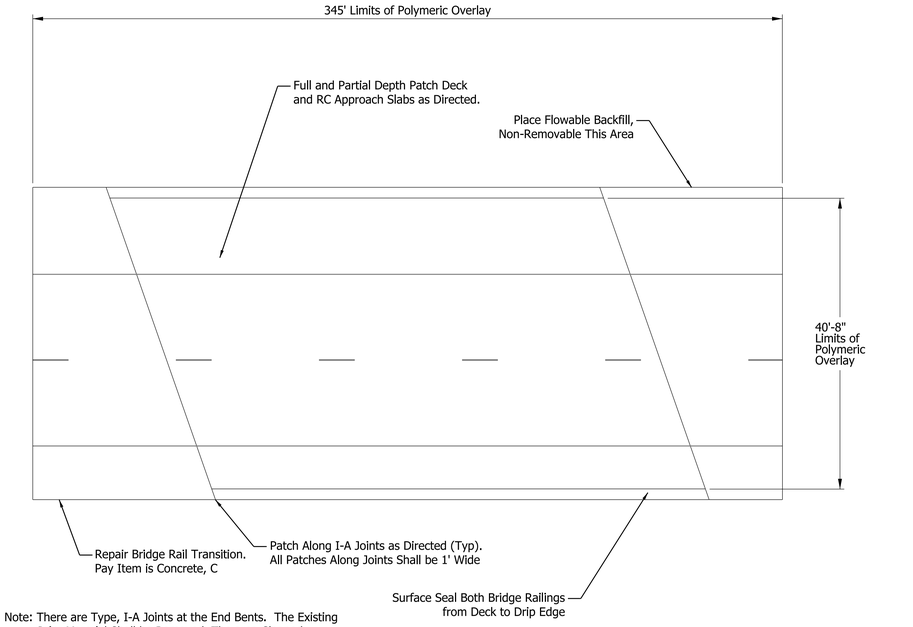
Note: There are Type, I-A Joints at the End Bents and between the West Approach and 15' Concrete Section. The Existing Joint Material Shall be Removed, the area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DETAILS DES 1592756

No Scale

Structure No.:	7	Des:	1592757
Bridge File:	I74-11-02258 DWBL		
Work Type:	Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs		
Applicable Plan Details:	Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02		
Maintenance of Traffic:	Interstate Single Lane Closure per MOT Drawings.		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1560
Bridge Deck Patching, Partial Depth	SFT	148
Bridge Deck Patching, Full Depth	SFT	57
Concrete, C (for Transition Repair)	CYS	1
Surface Seal Bridge Railings (Est,800 sys)	LS	1
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	86*
* Not a Pay Item. To be Included in Cost of Polymeric Overlay		



Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DETAILS DES 1592757

No Scale

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Gerald W. Whalen, P.E. October 4, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW

CHECKED: LAK CHECKED: LAK

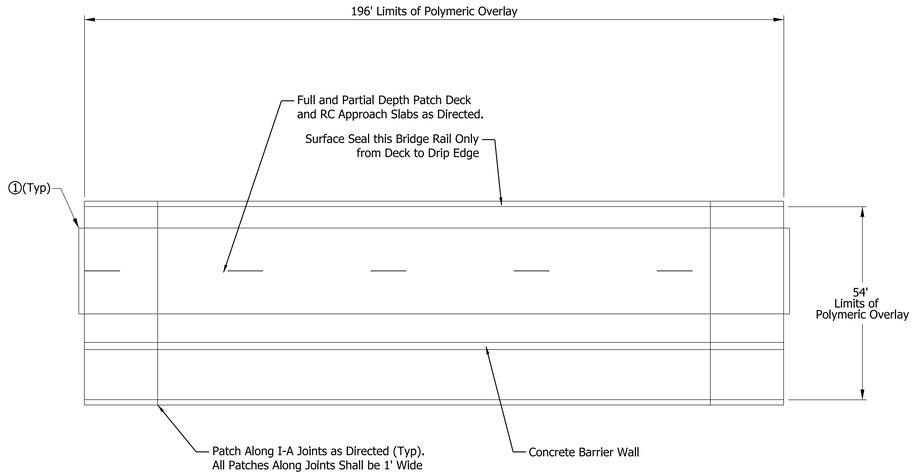
INDIANA
DEPARTMENT OF TRANSPORTATION

DETAILS DES 1592756 AND DES 1592757

SCALE	BRIDGE FILE
As Shown	I74-11-02258 DEBL/DWBL
	DESIGNATION
	1592756 and 1592757
SURVEY BOOK	SHEETS
	8 of 12
CONTRACT	PROJECT
B-38657	1500622

Structure No.:	1	Des:	1592762
Bridge File:	I74-03-04414 EEBL		
Work Type:	Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Approach Slabs		
Applicable Plan Details:	Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02		
Maintenance of Traffic:	Interstate Single Lane Closure per Attached Drawings		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1173
Bridge Deck Patching, Partial Depth	SFT	97
Bridge Deck Patching, Full Depth	SFT	42
Surface Seal Bridge Railings (Est, 200 sys)	LS	1
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	108
Replace HMA in Terminal Joints with HMA Patching, Type D	TON	7



① Replace HMA in Terminal Joint with HMA Patching, Type D 24' x 2', 12" Deep (2 Places)

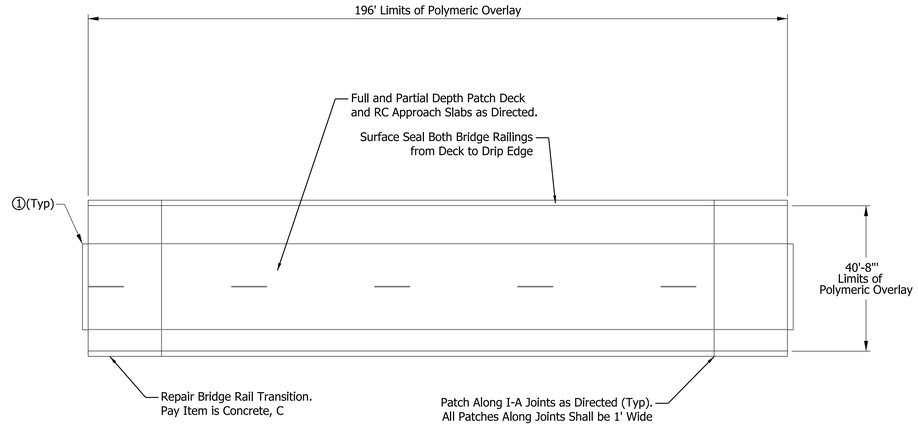
DETAILS DES 1592762

No Scale

Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

Structure No.:	2	Des:	1592763
Bridge File:	I74-03-04414 JEWB		
Work Type:	Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Approach Slabs		
Applicable Plan Details:	Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02		
Maintenance of Traffic:	Interstate Single Lane Closure per Attached Drawings		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	884
Bridge Deck Patching, Partial Depth	SFT	189
Bridge Deck Patching, Full Depth	SFT	63
Surface Seal Bridge Railings (Est, 400 sys)	LS	1
Replace HMA in Terminal Joints with HMA Patching, Type	TON	7
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	81



① Replace HMA in Terminal Joint with HMA Patching, Type D 24' x 2', 12" Deep (2 Places)

DETAILS DES 1592763

No Scale

Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Gerald W. Whalen, P.E. September 18, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW

CHECKED: LAK CHECKED: LAK

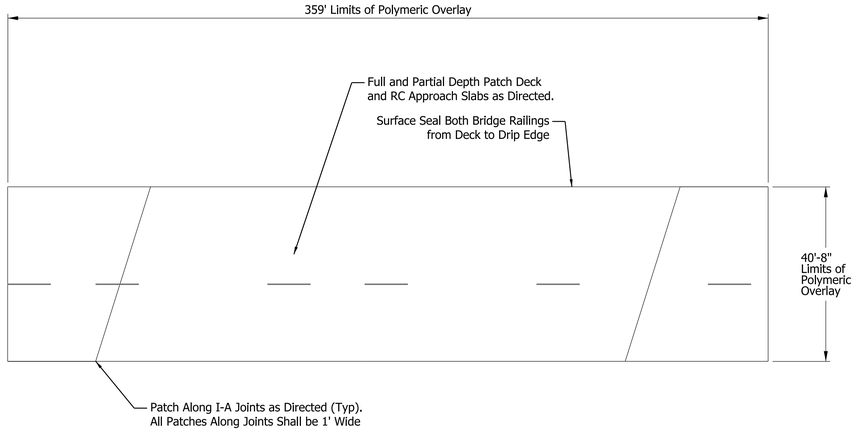
INDIANA
DEPARTMENT OF TRANSPORTATION

DETAILS DES 1592762 AND DES 1592763

SCALE	BRIDGE FILE
As Shown	I74-03-04414 EEBL/JEWB
	DESIGNATION
	1592762 and 1592763
SURVEY BOOK	SHEETS
	9 of 12
CONTRACT	PROJECT
B-38657	1500622

Structure No.:	**8**	Des:	**1592768**
Bridge File:	**I74-14-04928 EEBL**		
Work Type:	**Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs**		
Applicable Plan Details:	**Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02**		
Maintenance of Traffic:	**Interstate Single Lane Closure per MOT Drawings.**		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1622
Bridge Deck Patching, Partial Depth	SFT	192
Bridge Deck Patching, Full Depth	SFT	63
Surface Seal Bridge Railings (Est, 525 sys)	LS	1
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	85*
* Not a Pay Item. To be Included in Cost of Polymeric Overlay		



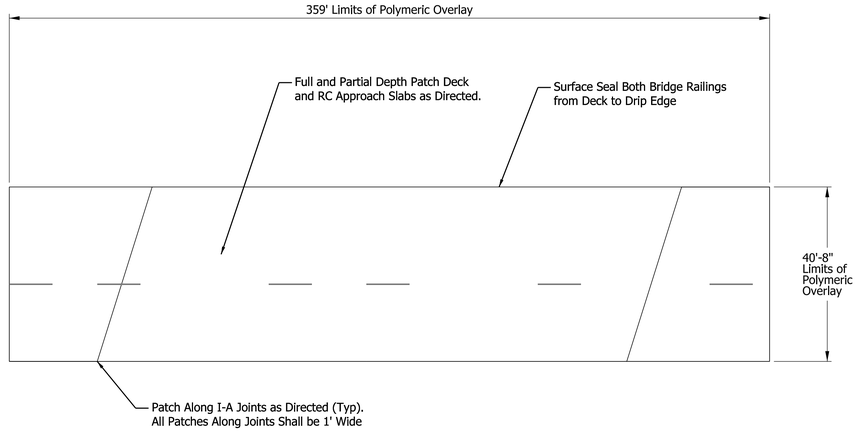
Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DETAILS DES 1592768

No Scale

Structure No.:	**9**	Des:	**1592769**
Bridge File:	**I74-14-04928 EWBL**		
Work Type:	**Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs**		
Applicable Plan Details:	**Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02**		
Maintenance of Traffic:	**Interstate Single Lane Closure per MOT Drawings.**		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1622
Bridge Deck Patching, Partial Depth	SFT	156
Bridge Deck Patching, Full Depth	SFT	63
Surface Seal Bridge Railings (Est, 525 sys)	LS	1
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	85*
* Not a Pay Item. To be Included in Cost of Polymeric Overlay		



Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DETAILS DES 1592769

No Scale

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* September 18, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW

CHECKED: LAK CHECKED: LAK

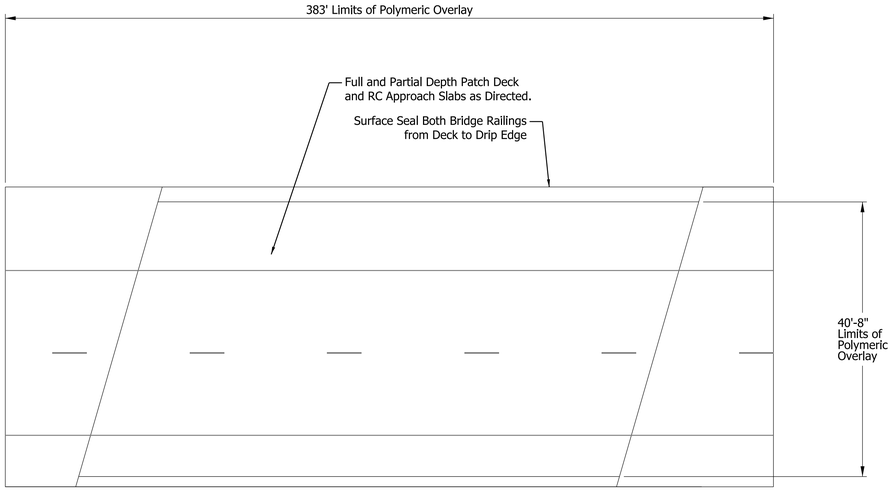
INDIANA
DEPARTMENT OF TRANSPORTATION

DETAILS DES 1592768 AND DES 1592769

SCALE	BRIDGE FILE
As Shown	I74-14-04928 EEBL/EWBL
	DESIGNATION
	1592768 and 1592769
SURVEY BOOK	SHEETS
	10 of 12
CONTRACT	PROJECT
B-38657	1500622

Structure No.:	**10**	Des:	**1592781**
Bridge File:	**I74-14-02333 EEBL**		
Work Type:	**Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs**		
Applicable Plan Details:	**Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02**		
Maintenance of Traffic:	**Interstate Single Lane Closure per MOT Drawings.**		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1731
Bridge Deck Patching, Partial Depth	SFT	175
Bridge Deck Patching, Full Depth	SFT	65
Surface Seal Bridge Railings (Est, 1050 sys)	LS	1
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	94

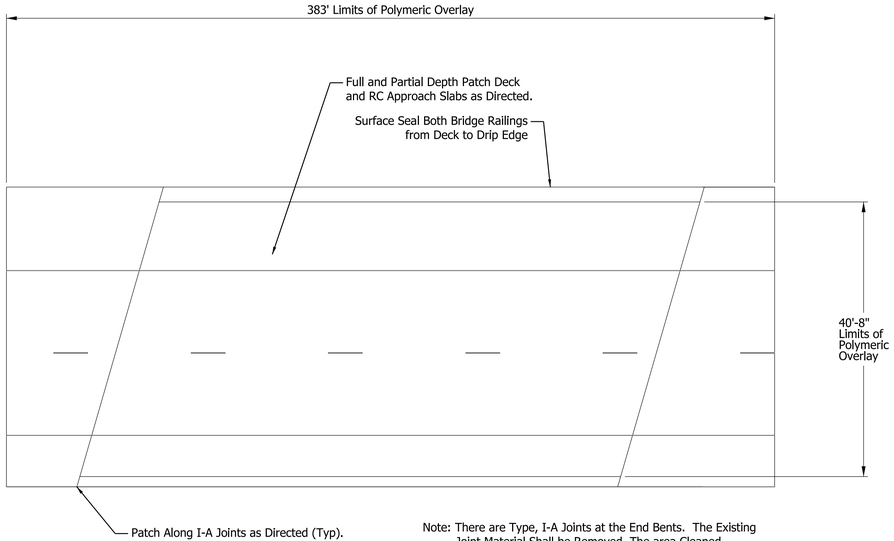


Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DETAILS DES 1592781
No Scale

Structure No.:	**11**	Des:	**1592784**
Bridge File:	**I74-14-02333 EWBL**		
Work Type:	**Bridge Deck and RC Approach Slab Patching, Polymeric Overlay over Deck and RC Bridge Approach Slabs**		
Applicable Plan Details:	**Type I-A Joint Re-Seal per Dwg 609-BRJT-01 and 906.02**		
Maintenance of Traffic:	**Interstate Single Lane Closure per MOT Drawings.**		

Description	Unit	Quantity
Polymeric Bridge Deck Overlay	SYS	1731
Bridge Deck Patching, Partial Depth	SFT	208
Bridge Deck Patching, Full Depth	SFT	65
Surface Seal Bridge Railings (Est, 1050 sys)	LS	1
Type I-A Joint - Remove Sealant, Clean, and Re-Seal	LFT	94



Note: There are Type, I-A Joints at the End Bents. The Existing Joint Material Shall be Removed, The area Cleaned, and the Joints Re-Sealed per Dwg 609-BRJT-01 and 906.02. Cost to be Included in Cost of Polymeric Overlay.

DETAILS DES 1592784
No Scale

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *Gerald W. Whalen, P.E.* September 18, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW
CHECKED: LAK CHECKED: LAK

INDIANA
DEPARTMENT OF TRANSPORTATION

DETAILS DES 1592781 and DES 1592784

SCALE	BRIDGE FILE
As Shown	I74-14-02333 EEBL/EWBL
	DESIGNATION
	1592781 and 1592784
SURVEY BOOK	SHEETS
	11 of 12
CONTRACT	PROJECT
B-38657	1500622

Descritpion	Unit	Structure 1	Structure 2	Structure 3	Structure 4	Structure 6	Structure 7	Structure 8	Structure 9	Structure 10	Structure 11	CONTRACT TOTALS
		DES 1592762	DES 1592763	DES 1500622	DES 1500623	DES 1592756	DES 1592757	DES 1592768	DES 1592769	DES 1592781	DES 1592784	
		Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
CONSTRUCTION ENGINEERING	LS	1	1	1	1	1	1	1	1	1	1	1
MOBILIZATION AND DEMOBILIZATION	LS	1	1	1	1	1	1	1	1	1	1	1
FLOWABLE BACKFILL, NON-REMOVABLE	CYS	0	0	0	0	0	5	0	0	0	0	5
HMA PATCHING, TYPE D	TON	87	87	87	84	80	80	80	80	80	80	825
MILLING ASPHALT, 2 IN	SYS	271	271	271	271	271	271	271	271	271	271	2,710
MILLED HMA SHOULDER CORRUGATIONS	LFT	1220	1220	1220	1220	1220	1220	1220	1220	1220	1220	12,200
TYPE IA JOINT - REMOVE SEALANT, CLEAN, AND RE-SEAL *	LFT	108*	81*	80*	80*	127*	86*	85*	85*	94*	94*	0
FIELD OFFICE, B	MOS	0	0	11	0	0	0	0	0	0	0	11
CELLULAR TELEPHONE, A	EACH	0	0	1	0	0	0	0	0	0	0	1
CELLULAR TELEPHONE, B	EACH	0	0	1	0	0	0	0	0	0	0	1
CELLULAR TELEPHONE SERVICE, 500 MINUTES	MOS	0	0	22	0	0	0	0	0	0	0	22
COMPUTER SYSTEM EQUIPMENT	EACH	0	0	1	0	0	0	0	0	0	0	1
COMPUTER SYSTEM	EACH	0	0	1	0	0	0	0	0	0	0	1
CONCRETE, C	CYS	0	0	0	0	0	1	0	0	0	0	1
SURFACE SEAL	LS	1	1	1	1	1	1	1	1	1	1	1
PATCHING CONCRETE STRUCTURES	SFT	0	0	100	100	5	0	0	0	0	0	205
BRIDGE DECK PATCHING FULL DEPTH	SFT	42	63	262	262	57	57	63	63	65	65	999
BRIDGE DECK PATCHING PARTIAL DEPTH	SYS	97	189	787	533	112	148	192	156	175	208	2,597
POLYMERIC BRIDGE DECK OVERLAY	SYS	1173	884	5990	5990	1627	1560	1,622	1,622	1,731	1,731	23,930
TEMPORARY PAVEMENT MARKING, REMOVABLE 4 IN	LFT	11715	11205	18255	18255	12195	12105	12,195	12,195	12,345	12,345	132,810
CONSTRUCTION SIGN A **	EACH	22	22	22**	22**	22**	22**	22	22	22**	23**	89
CONSTRUCTION SIGN B **	EACH	2	2	2**	2**	2**	2**	2	2	2**	2**	8
CONSTRUCTION SIGN C **	EACH	2	2	2**	2**	2**	2**	2	2	2**	2**	8
CONSTRUCTION SIGN D **	EACH	2	2	2**	2**	2**	2**	2	2	2**	2**	8
FLASHING ARROW SIGN	DAY	45	45	60	60	45	45	45	45	45	45	480
ENERGY ABSORBING TERMINAL CZ TL-2	EACH	1	1	1*	1*	1*	1*	1	1	1*	1*	4
MAINTAINING TRAFFIC	LS	1	1	1	1	1	1	1	1	1	1	1
BARRICADE III-A **	LFT	12	12	12**	12**	12**	12**	12	12	12**	12**	48
TEMPORARY TRAFFIC BARRIER, TYPE 2 **	LFT	250*	250*	1420	1420	410**	400**	410**	410**	440**	440**	2,840
TEMPORARY TRAFFIC BARRIER, TYPE 2, ANCHORED **	LFT	210	210	210*	210*	210*	210*	210	210	210*	210*	840
PORTABLE CHANGEABLE MESSAGE SIGN **	EACH	1**	1**	1	1	1**	1**	1**	1**	1**	1**	2
RETRO-REFLECTIVITY TESTING	LS	1	1	1	1	1	1	1	1	1	1	1
LINE, MULTI-COMPONENT, SOLID, WHITE, 4 IN	LFT	3030	3030	4205	4205	3195	3180	3,195	3,195	3,220	3,220	33,675
LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN	LFT	3030	3030	4205	4205	3195	3180	3,195	3,195	3,220	3,220	33,675
LINE, MULTI-COMPONENT, BROKEN, WHITE, 5 IN	LFT	760	760	1055	1055	800	795	800	800	805	805	8,435
LINE, REMOVE	LFT	6820	6820	9465	9465	7190	7155	7,190	7,190	7,245	7,245	75,785
SNOWPLOWABLE RAISED PAVEMENT MARKER, REMOVE	EACH	3	3	12	12	5	4	4	4	4	5	56

* NOT A PAY ITEM - REFERENCE ONLY; ** SIGNS, BARRICADES, AND TRAFFIC BARRIERS SHALL BE SHARED AT DIFFERENT LOCATIONS (SEE USP FOR DETAILS)

DATE	REVISION

GERALD W. WHALEN REGISTERED No. 17185 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL Gerald W. Whalen, P.E. November 15, 2017
DESIGN ENGINEER DATE

DESIGNED: GWW DRAWN: GWW

CHECKED: LAK CHECKED: LAK

INDIANA
DEPARTMENT OF TRANSPORTATION

SUMMARY SHEET

SCALE	BRIDGE FILE
N/A	See Tables
	DESIGNATION
	See Tables
SURVEY BOOK	SHEETS
	12 of 12
CONTRACT	PROJECT
B-38657	1500622