

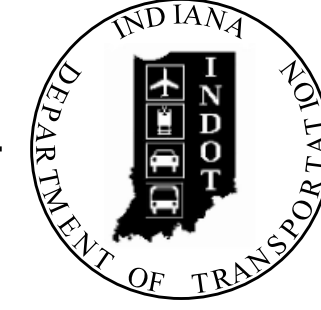
PROJECT 1802075	DESIGNATION 1900758
CONTRACT R-41536	BRIDGE FILE I465-165-10518

STRUCTURE INFORMATION

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I465-165-10518	Continuous Composite Steel Beam Bridge	3 Spans: 134'-0", 133'-0", & 136'-0" Skew: 20°07'30" Rt.	I-465	18+66.40 Line "S-1-ZZ"

Kin Project Information		
DES. NUMBER	DESCRIPTION	TYPE
1900744	US 31 Over I-465	Bridge
1900757	Madison Ave. Over I-465 & Lick Creek	Bridge
1901390	I-465 Over McFarland Ditch	Small Structure
1900748 & 1900749	I-465 EB & WB Over Lick Creek	Bridge
1900750	Mooreville Road Bypass Over I-465	Bridge
1802075	Added Travel Lanes	Road
1901612	CV I465-049-00.27L	Small Structure
1901612	CV I465-049-00.30	Small Structure
1901612	CV I465-049-01.47	Small Structure
1901612	CV I465-049-01.90	Small Structure
1901612	CV I465-049-01.97	Small Structure
1901612	CV I465-049-02.05	Small Structure
1901612	CV I465-049-08.45	Small Structure
1802105	Project A	Road
1802106	Project B	Road
1802107	Project C	Road
1900769	Traffic: Signing, Markings, Lighting, ITS	Road

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

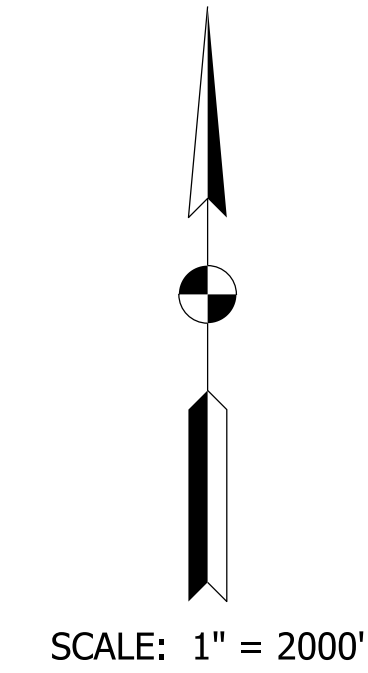
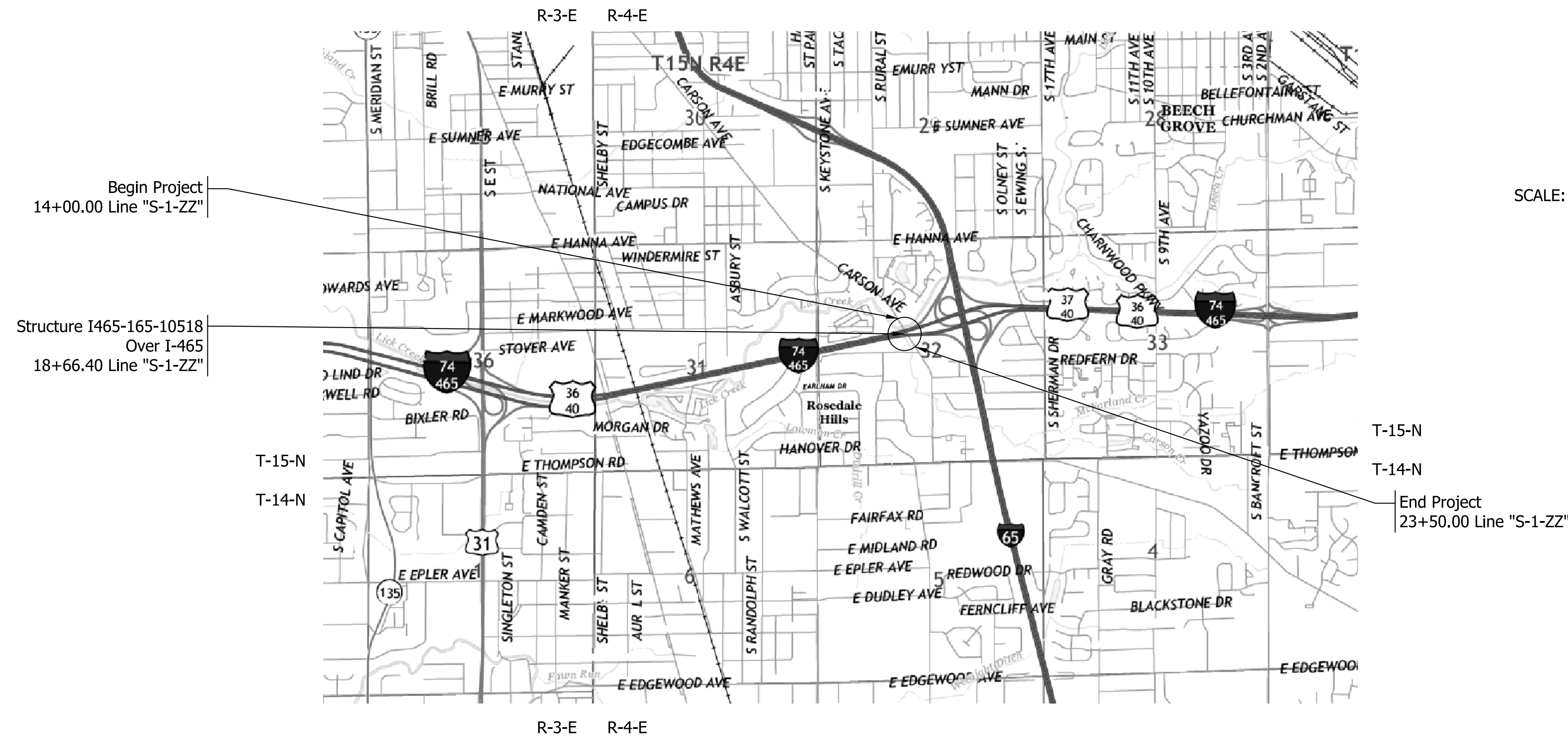
FOR SPANS OVER 20 FEET

ROUTE: CARSON AVE. AT: RP 0+27

PROJECT NO. 1802075 P.E. R/W
1802075 CONST.

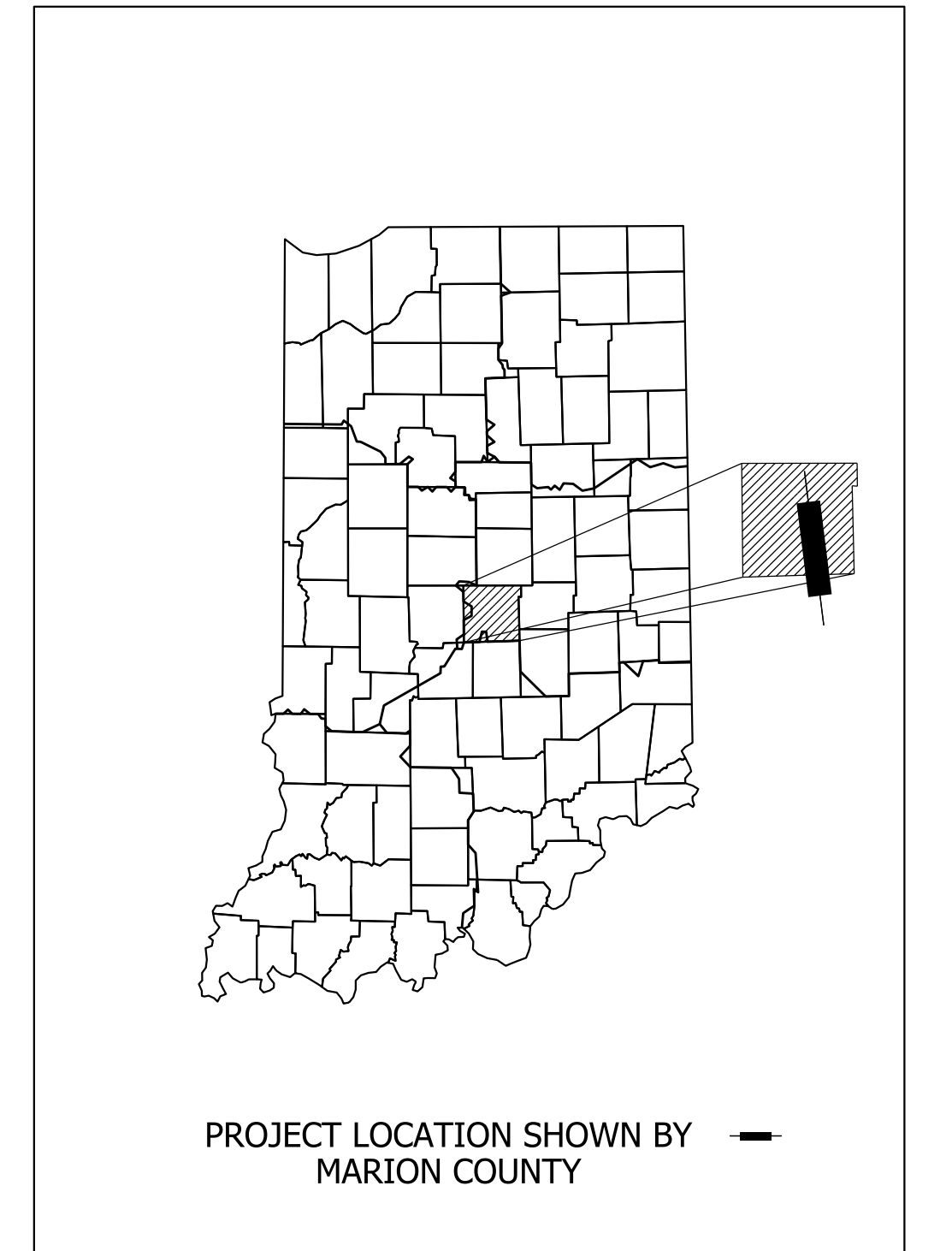
NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

Bridge Replacement on Carson Avenue over I-465
Located 1.96 Miles East of US 31
Section 32, T-15-N, R-4-E, Perry Township, Marion County, Indiana



TRAFFIC DATA		
A.A.D.T. (2025)		4,745 V.P.D.
A.A.D.T. (2045)		5,486 V.P.D.
D.H.V (2045)		636 P.P.H.
DIRECTIONAL DISTRIBUTION		49% NB / 51% SB
TRUCKS		1.11% A.A.D.T. 1.34% D.H.V.

DESIGN DATA	
DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 39° 42' 09" N LONGITUDE: 86° 06' 47" W

BRIDGE LENGTH: 0.077 MI.
ROADWAY LENGTH: 0.103 MI.
TOTAL LENGTH: 0.180 MI.
MAX. GRADE: 5.26 %

HUC: 051202011203

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

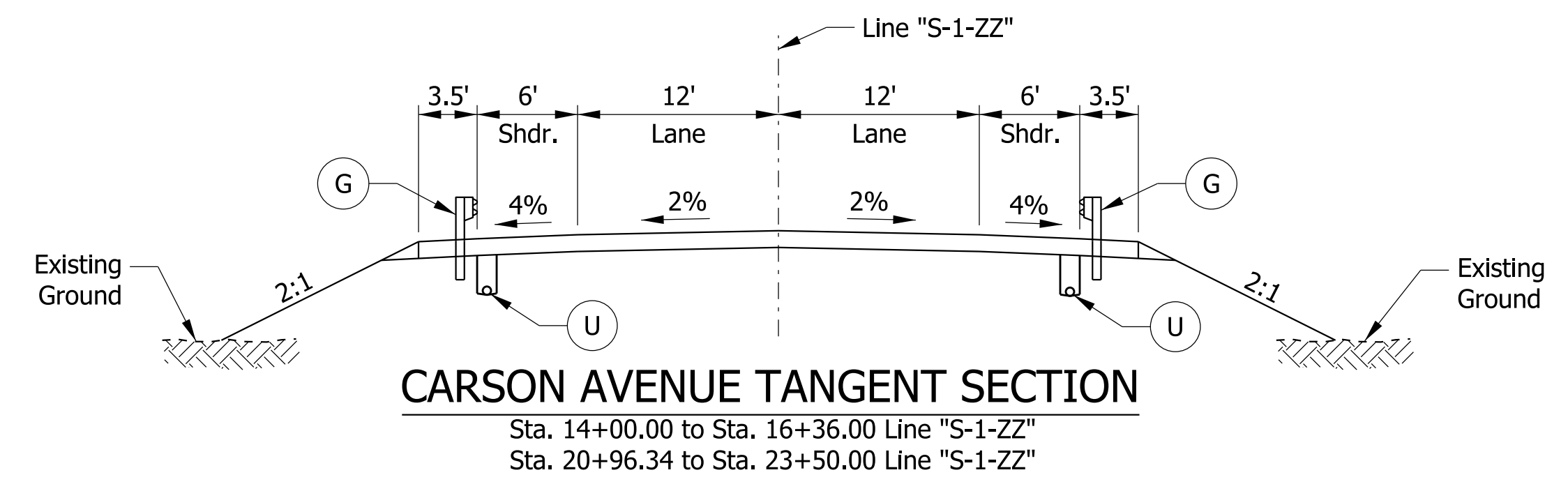
PARSONS

101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

IP_PWP:dms31258\I-465_Reconfigure_B009_SHT_Title.dgn
12-JUL-2019

PLANS PREPARED BY: PARSONS	317-616-1000 PHONE NUMBER
CERTIFIED BY:	DATE
APPROVED FOR LETTING:	DATE
INDIANA DEPARTMENT OF TRANSPORTATION	

BRIDGE FILE	
I-465-165-10518	
DESIGNATION	
1900758	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 13
CONTRACT	PROJECT
R-41536	1802075



PARSONS
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 Indianapolis, IN 46204
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- (A1) TBD
- (A2) TBD
- (A3) TBD
- (A4) TBD

- (G) Guardrail, MGS W-Beam, 6'-3" Spacing
- (N) Compacted Aggregate, No. 53
- (U) Underdrain
- (2) Concrete Median Barrier, 45"

- (27) Seed Mixture, U

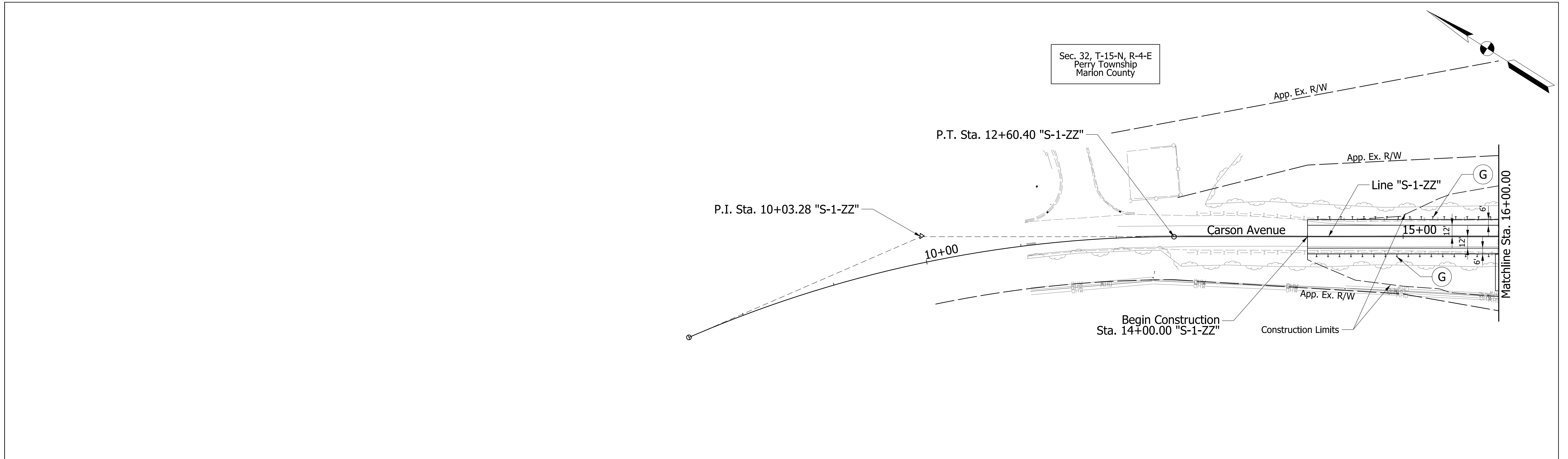
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____
DESIGNED: _____ CWB _____	DRAWN: _____ DH _____
CHECKED: _____ JTL _____	CHECKED: _____ JTL _____

INDIANA
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'	
VERTICAL SCALE	DESIGNATION
N/A	1900758
SURVEY BOOK	SHEETS
N/A	3 of 13
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31266\1465_Reconfiguration_Typ_06.dgn



PARSONS
 101 W. Ohio St., Suite 2121
 Indianapolis, IN 46204
 Bus (317) 616-1000
 Fax (317) 616-1033

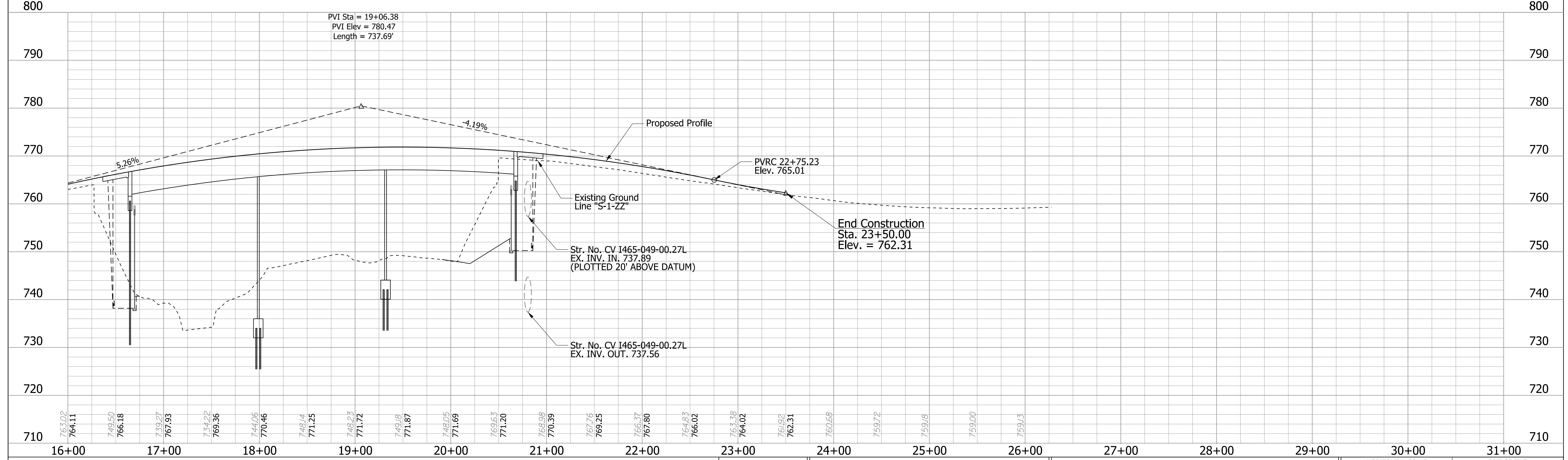
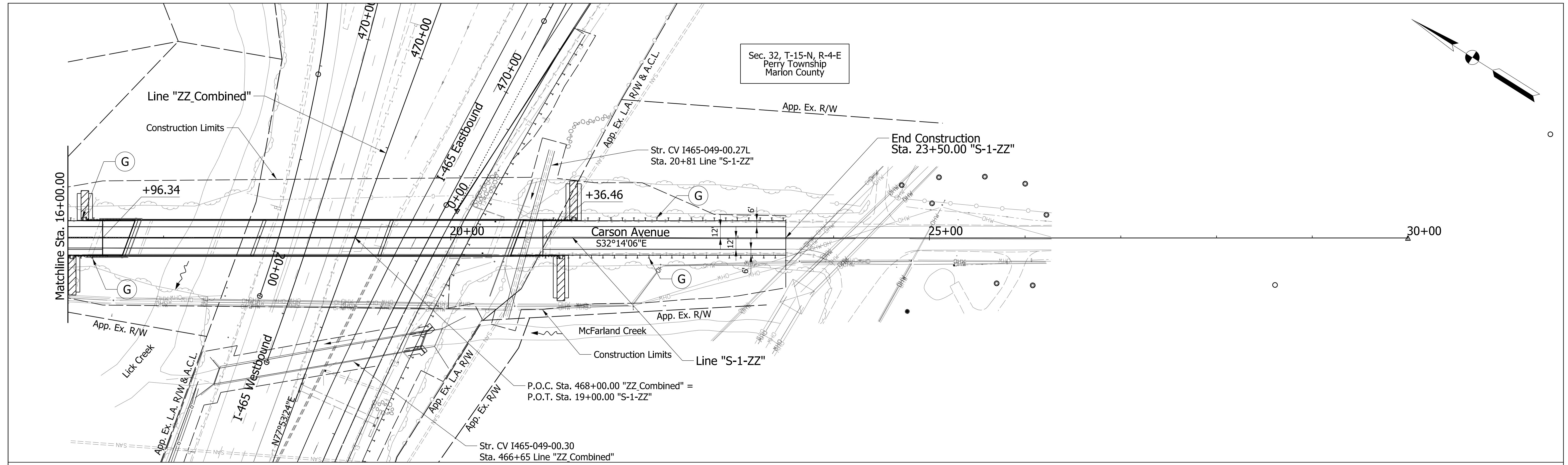
- ② Concrete Median Barrier, 45"
- ⓐ Guardrail, MGS, W-Beam, 6'-3" Spacing
- ⓂH Manhole with Open Grate

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JAC	DRAWN: DH	
CHECKED: CWB	CHECKED: CWB	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 PLAN AND PROFILE SHEET
 LINE "S-1-ZZ"
 STA. 14+00.00 TO STA. 16+00.00

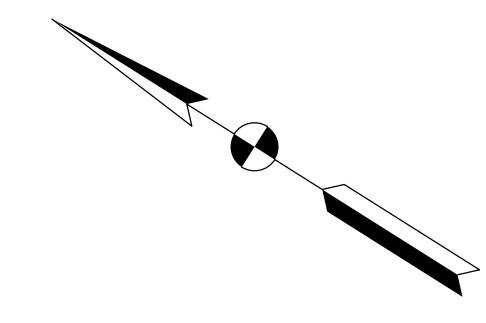
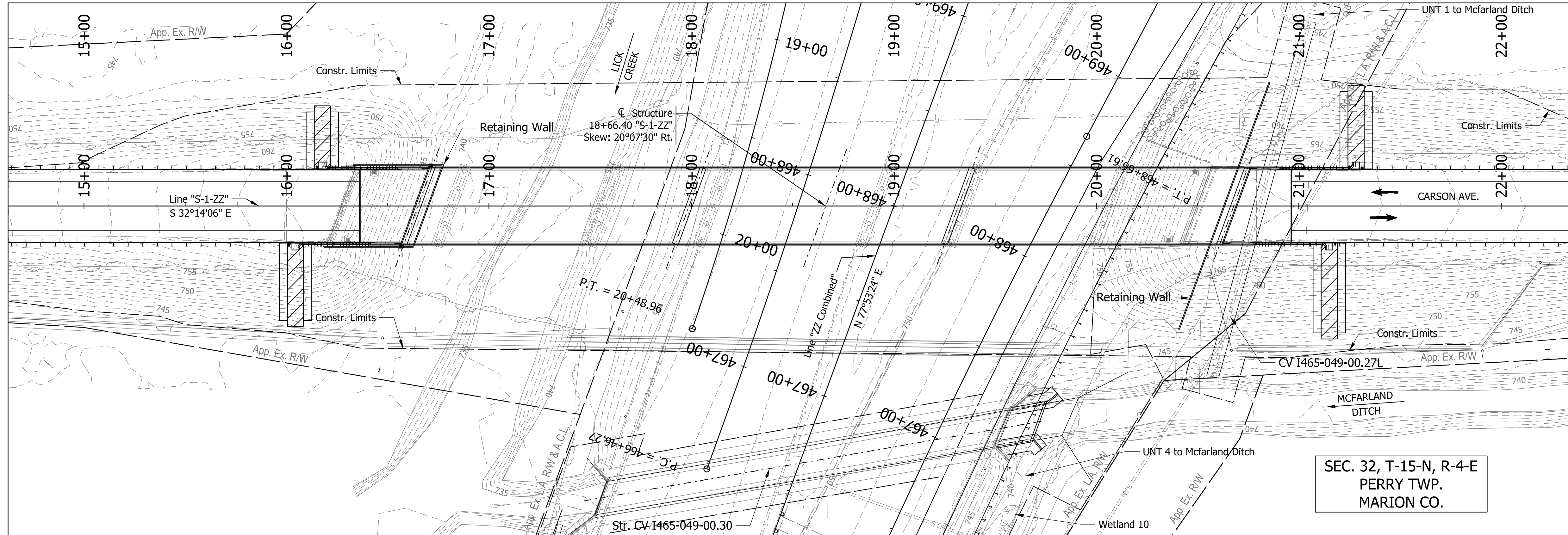
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1900758
SURVEY BOOK N/A	SHEETS 4 of 13
CONTRACT R-41536	PROJECT 1802075

IP_PWP:dms31266\1-465_Reconfigure_Plan_15.dgn



PARSONS 101 W. Ohio St., Suite 2121 Indianapolis, IN 46204 Bus (317) 616-1000 Fax (317) 616-1033	(2) Concrete Median Barrier, 45"	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: JAC DRAWN: DH CHECKED: CWB CHECKED: CWB	INDIANA DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE SHEET LINE "S-1-ZZ" STA. 16+00.00 TO STA. 31+23.50		HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
	(G) Guardrail, MGS, W-Beam, 6'-3" Spacing				VERTICAL SCALE 1" = 10'	DESIGNATION 1900758
	(MH) Manhole with Open Grate				SURVEY BOOK N/A	SHEETS 5 of 13
					CONTRACT R-41536	PROJECT 1802075

IP_PWP:dms31266\I-465_Reconfigure_Plan_16.dgn



NOTE TO REVIEWER:
Hydraulic Data is forthcoming.

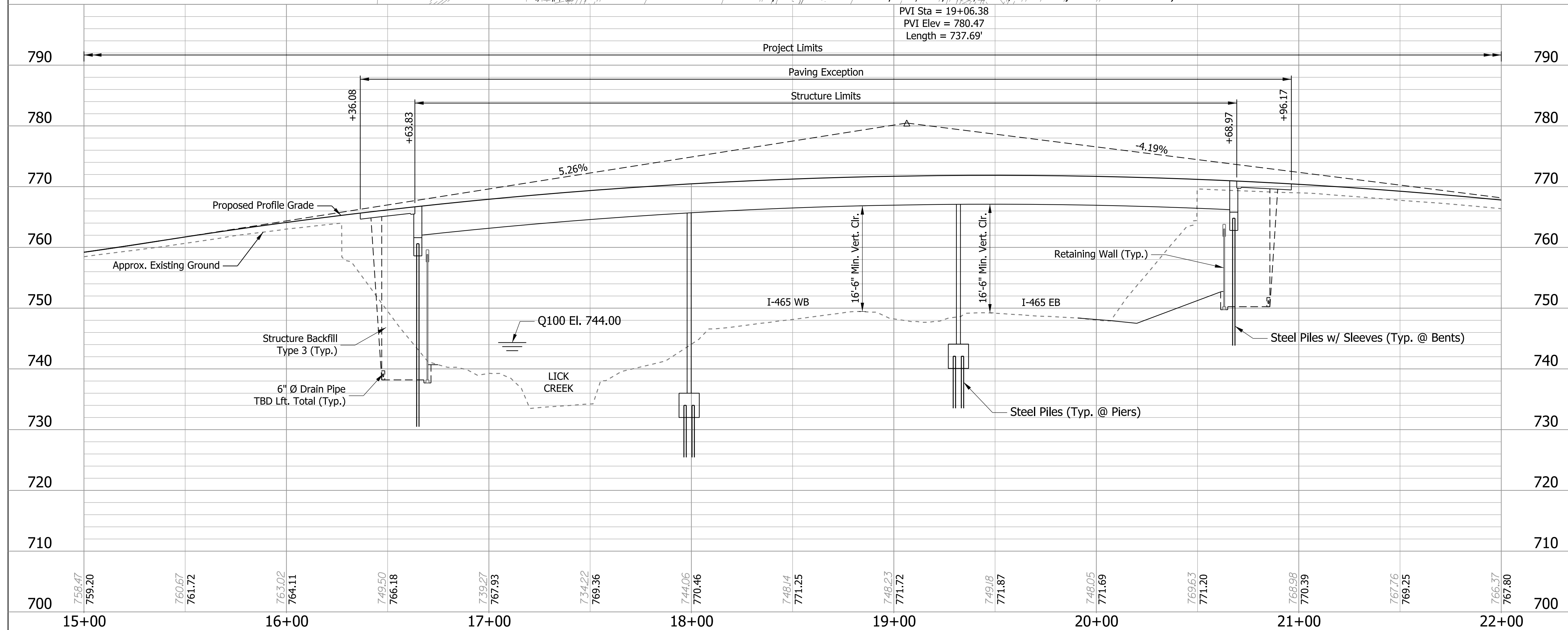
HYDRAULIC DATA

Waterway Opening Provided	= Sq. Ft.
Waterway Opening Existing	= Sq. Ft.
Drainage Area	= Sq. Mi.
Design Discharge (Q100)	= Cfs.
Velocity (Q100)	= Ft./Sec.
Q100 Elev.	= Ft.
Estimated Scour Elev.	= Ft.
Backwater (Q100)	= Ft.
Existing Backwater	= Ft.
Low Structure Elev.	= Ft.
Existing Low Structure Elev.	= Ft.

SEC. 32, T-15-N, R-4-E
PERRY TWP.
MARION CO.

EXISTING STRUCTURE
The existing structure (I465-165-04442B) is a steel beam bridge was built in 1963 with 7 spans: 52'-6", 76'-0", 52'-6", 78'-6", 43'-3", 71'-6", and 43'-3" with a 35'-4" min. clear roadway reinforced concrete deck. Existing structure to be removed.

EARTHWORK TABULATION
See roadway plans for earthwork information.



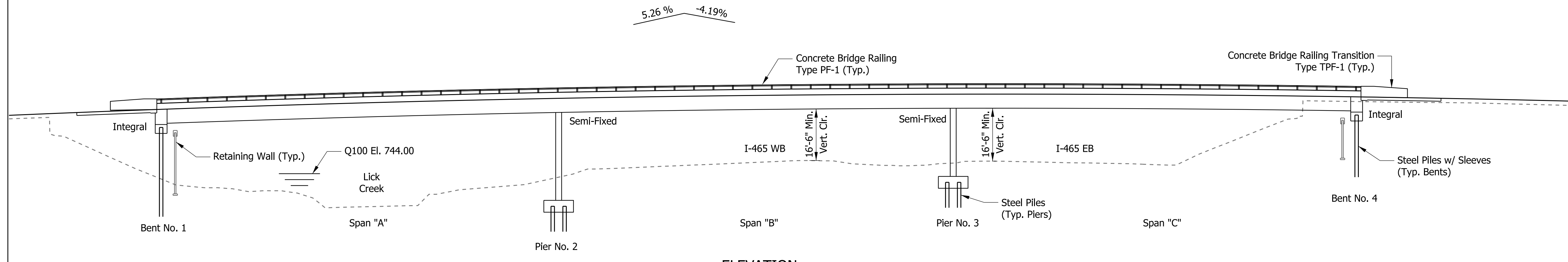
NOTES:
For R/W and Additional information see Roadway Plan & Profile sheets.
For Utility Contacts see Index Sheet No.2.

CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
3 SPANS: 134'-0", 133'-0", 136'-0"
36'-8" CLEAR ROADWAY; SKEW: 20° 7' 30" RT.
CARSON AVE OVER I-465 & LICK CREEK
MARION COUNTY

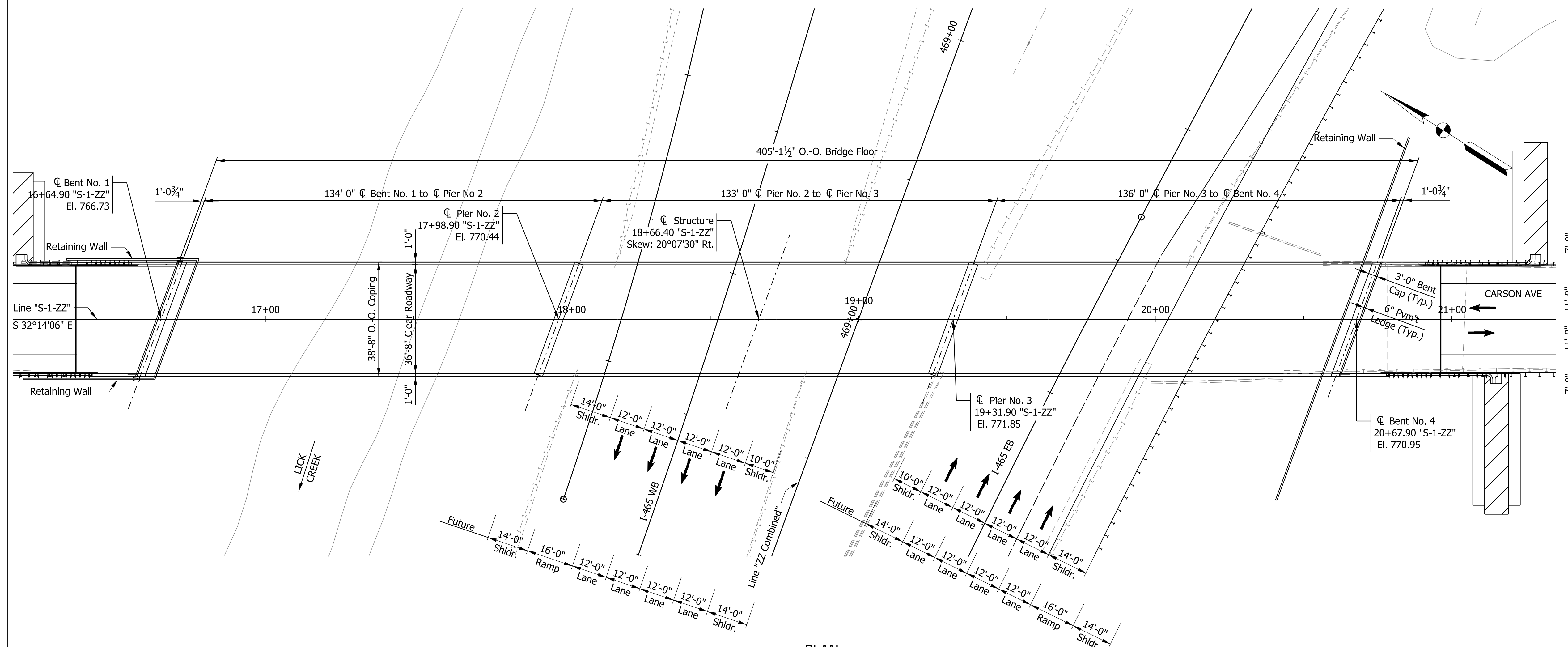
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: KCW		DRAWN: JEW		1"=30'-0"	1465-165-10518
CHECKED: KRM	CHECKED: KRM			LAYOUT	VERTICAL SCALE	DESIGNATION
					1"=10'-0"	1900758
				SHEETS	SURVEY BOOK	PROJECT
					ELECTRONIC	6 of 13
					CONTRACT	1802075
					R-41536	

IP_PWP:dms31258\I-465_Reconfigure_B009_SHT_Layout.dgn
12-JUL-2019

STRUCTURE TO BE BUILT ON A 737.69' VERTICAL CURVE



ELEVATION



PLAN

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in Top and 1" min. In bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

All New Reinforcement Shall be Epoxy Coated Unless Otherwise Noted.

Surface Seal shall be Applied to the Approach Slabs, All Exposed Surfaces of New Concrete Railings, Sidewalks, Top of Bridge Deck, Deck Copings, and Underside of Bridge Deck to Exterior Beams.

DESIGN DATA

Superstructure & Substructure Designed for HL-93 Loading in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2018, and its subsequent interims.

DEAD LOAD

Actual weight plus 35 lb/ft² of future wearing surface and 15 lb/ft² for SIP Metal deck forms.

FLOOR SLAB

Designed with a 7 1/2" structural depth, and a 1/2" integral wearing surface.

DESIGN STRESSES

CONCRETE

Class "A" Concrete $f_c = 3,500$ p.s.i.
Class "B" Concrete $f_c = 3,000$ p.s.i.
Class "C" Concrete $f_c = 4,000$ p.s.i.

REINFORCING STEEL

Grade 60 $f_y = 60,000$ p.s.i.

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lb/ft² for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD

Designed for 20 lb/ft² extending 2-ft past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

FINISHING MACHINE LOAD

4500 lb distributed over 10-ft along the coping.

WIND LOAD

Structure Designed for horizontal wind loading in accordance with LRFD 3.8.1.

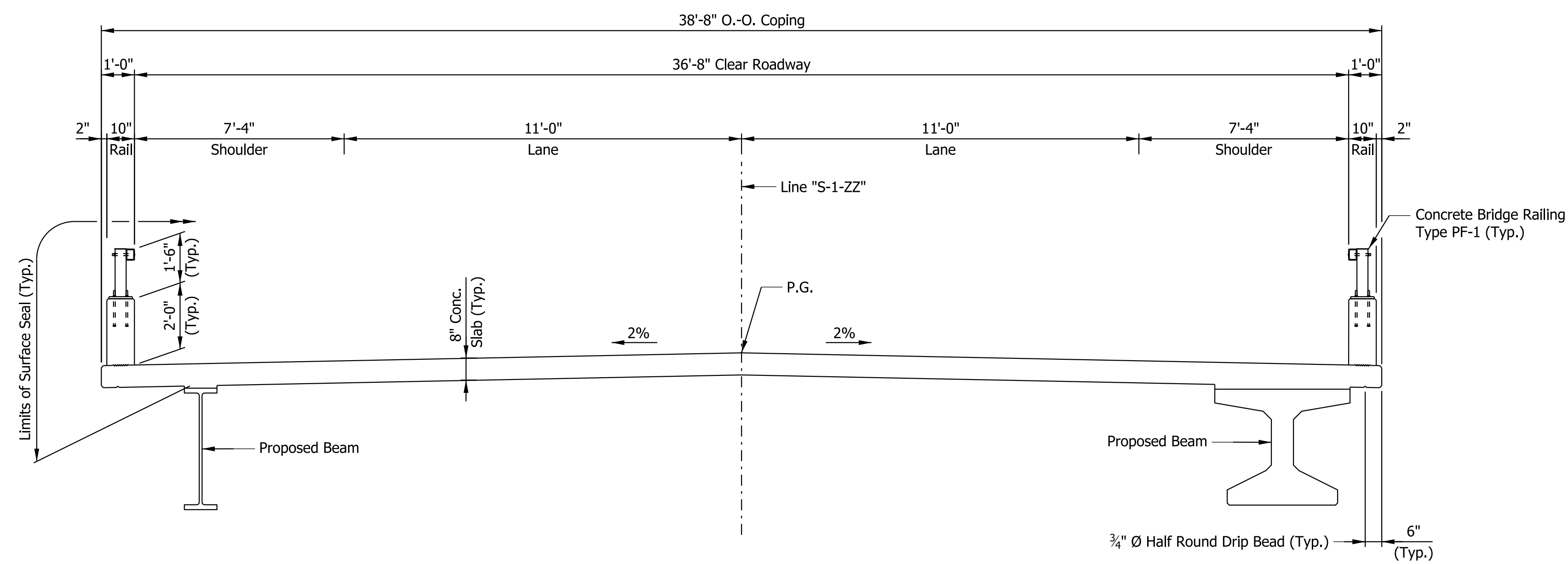
SEISMIC DESIGN DATA

Seismic Performance Zone TBD
Acceleration Coefficient (S_{D1}) TBD
Seismic Soil Profile Type TBD

CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
3 SPANS: 134'-0", 133'-0", 136'-0"
36'-8" CLEAR ROADWAY; SKEW: 20° 7' 30" RT.
CARSON AVE OVER I-465 & LICK CREEK
MARION COUNTY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	
			GENERAL PLAN	
DESIGNED: KCW	DRAWN: JEW		HORIZONTAL SCALE 1"=20'-0"	BRIDGE FILE 1465-165-10518
CHECKED: KRM	CHECKED: KRM		VERTICAL SCALE 1"=20'-0"	DESIGNATION 1900758
			SURVEY BOOK	SHEETS
			ELECTRONIC	7 of 13
			CONTRACT	PROJECT
			R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B009_SHT_General Plan.01.dgn
12-JUL-2019



TYPICAL SECTION

CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
 3 SPANS: 134'-0", 133'-0", 136'-0"
 36'-8" CLEAR ROADWAY; SKEW: 20° 7' 30" RT.
 CARSON AVE OVER I-465 & LICK CREEK
 MARION COUNTY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ KCW _____	DRAWN: _____ JEW _____	
CHECKED: _____ KRM _____	CHECKED: _____ KRM _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	I465-165-10518
VERTICAL SCALE	DESIGNATION
3/8" = 1'-0"	1900758
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 13
CONTRACT	PROJECT
R-41536	1802075

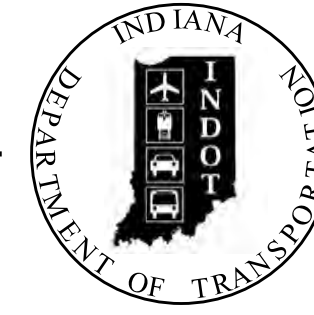
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 12-JUL-2019

PROJECT	DESIGNATION
1802075	1901390
CONTRACT	BRIDGE FILE
R-41536	CV I465-049-00.30 A

INDIANA DEPARTMENT OF TRANSPORTATION

See Des. No. 1802075 for Traffic Data

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
CV I465-049-00.30 A	Reinforced Concrete Slab	Span: 18'-0" Skew: 30° Lt.	McFarland Ditch	466+64.55 Line "ZZ_Combined"

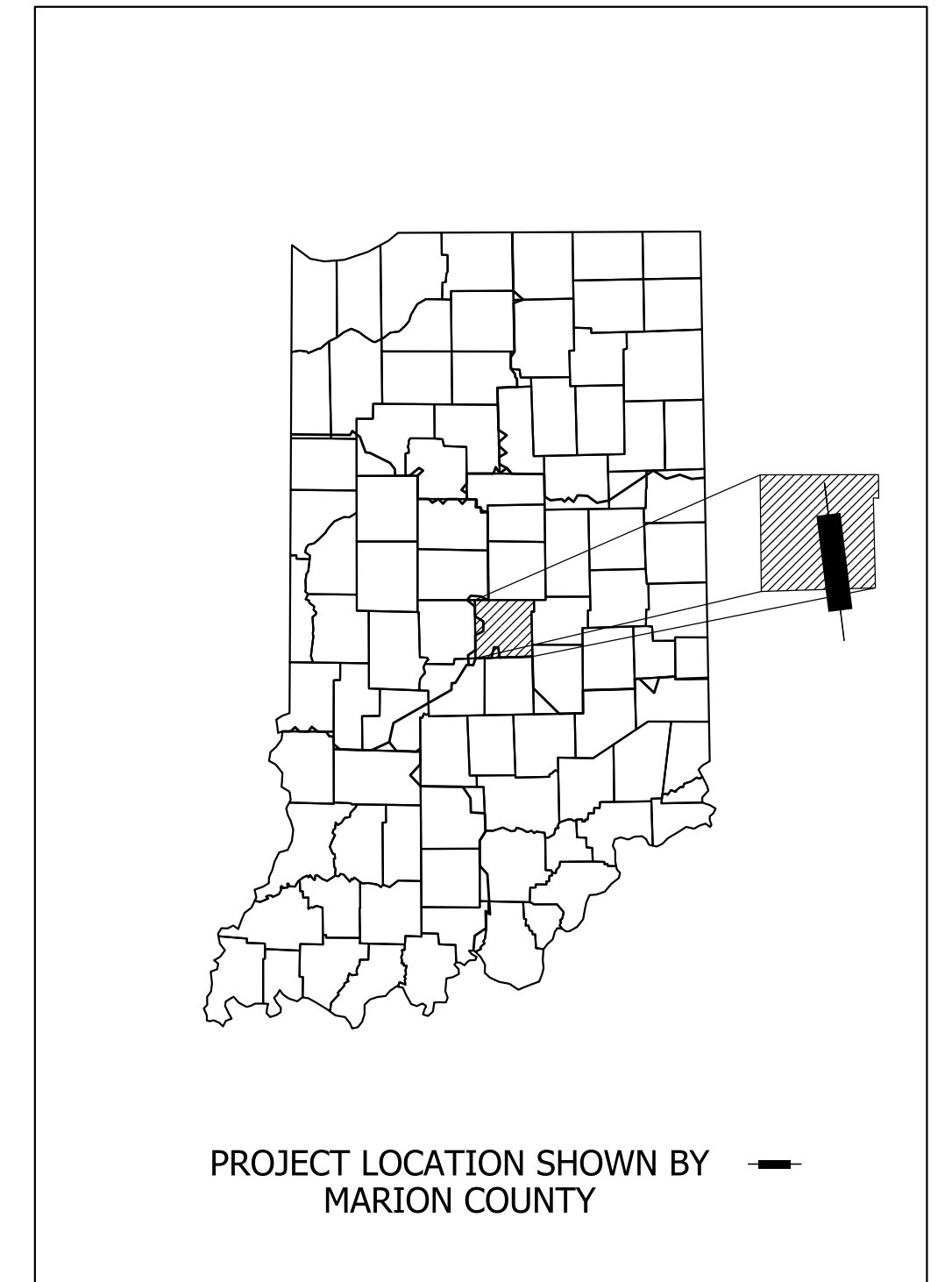
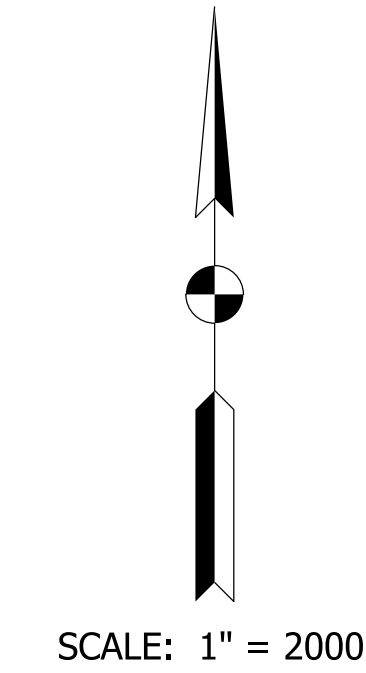


SMALL STRUCTURE REHABILITATION PLANS

Kin Project Information		
DES. NUMBER	DESCRIPTION	TYPE
1900744	US 31 Over I-465	Bridge
1900757	Madison Ave. Over I-465 & Lick Creek	Bridge
1900748 & 1900749	I-465 EB & WB Over Lick Creek	Bridge
1900750	Mooreville Road Bypass over I-465	Bridge
1900758	Carson Ave. Over I-465 & Lick Creek	Bridge
1802075	Added Travel Lanes	Road
1901612	CV I465-049-00.27L	Small Structure
1901612	CV I465-049-00.30	Small Structure
1901612	CV I465-049-01.47	Small Structure
1901612	CV I465-049-01.90	Small Structure
1901612	CV I465-049-01.97	Small Structure
1901612	CV I465-049-02.05	Small Structure
1901612	CV I465-049-08.45	Small Structure
1802105	Project A	Road
1802106	Project B	Road
1802107	Project C	Road
1900769	Traffic: Signing, Markings, Lighting, ITS	Road

ROUTE: I-465 AT: RP 0+29
 PROJECT NO. 1802075 P.E.
 NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT R/W
 1802075 CONST.

Culvert Widening on I-465 over McFarland Ditch
 Located 0.031 Miles West of Carson Ave.
 Section 31, T-15-N, R-4-E, Perry Township, Marion County, Indiana



LATITUDE: 39° 42' 09" LONGITUDE: 86° 06' 48"

BRIDGE LENGTH: N/A MI.
 ROADWAY LENGTH: SEE ROADWAY PLANS MI.
 TOTAL LENGTH: SEE ROADWAY PLANS MI.
 MAX. GRADE: SEE ROADWAY PLANS %

HUC 051202011203

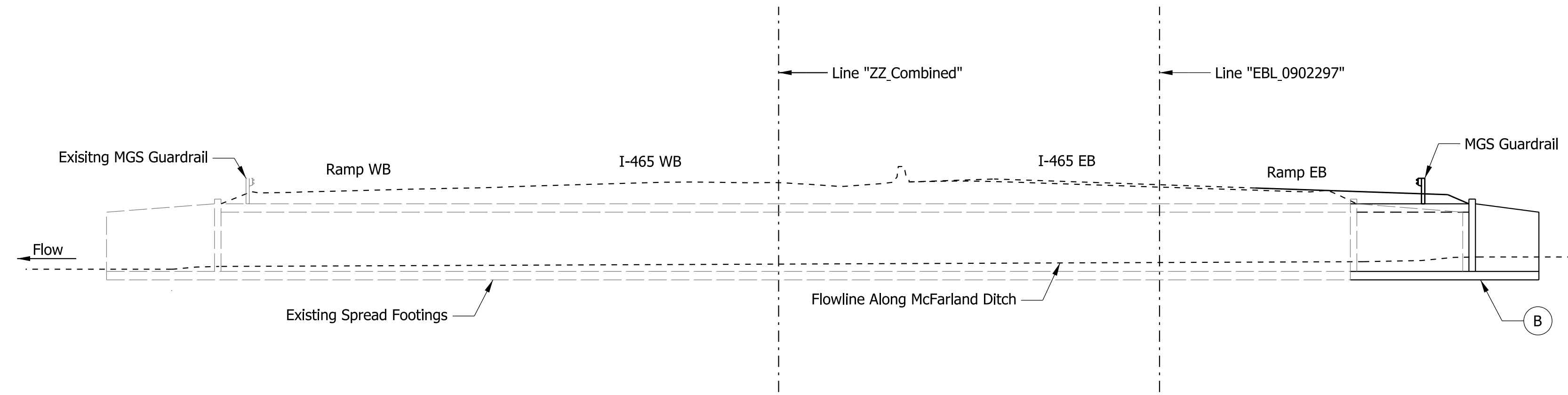
INDIANA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS DATED 2020
 TO BE USED WITH THESE PLANS.

PARSONS
 101 W. Ohio St., Suite 2121
 Indianapolis, IN 46204
 Bus (317) 616-1000
 Fax (317) 616-1033

PLANS PREPARED BY: PARSONS 317-616-1000 PHONE NUMBER
 CERTIFIED BY: DATE
 APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
CV I465-049-00.30 A	
DESIGNATION	
1901390	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 4
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B008_SHT_Title.dgn
 15-JUL-2019



ELEVATION

GENERAL NOTES

Reinforcing steel covering shall be 2½" in Top and 1" min. in bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts unless noted.

All New Reinforcement Shall be Epoxy Coated, unless Otherwise Noted.

Plans for the Existing Structure are on file in the Central Office Indiana Dept. of Transportation as CV 1465-049-00.30

DESIGN DATA

Designed for HL-93 Loading in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2018, and its subsequent interims.

DESIGN STRESSES

CONCRETE

Class "A" Concrete $f_c = 3,500$ p.s.i.
 Class "B" Concrete $f_c = 3,000$ p.s.i.
 Class "C" Concrete $f_c = 4,000$ p.s.i.

REINFORCING STEEL

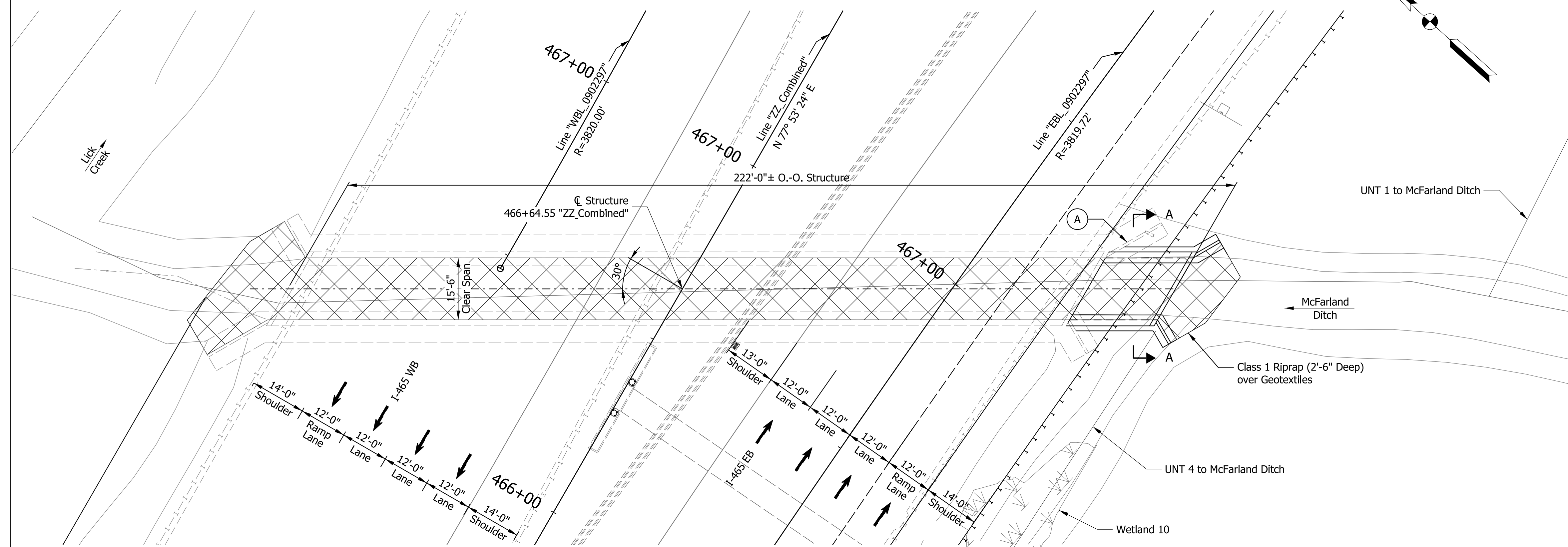
Grade 60 $f_y = 60,000$ p.s.i.

LEGEND

- (A) Remove existing wingwalls and headwalls.
- (B) Extend Small Structure in-kind.
- Hatched area indicates Class 1 Riprap over Geotextiles, Type xx.

HYDRAULIC DATA

Drainage Area = 1.79 Sq. Mi.
 Design Discharge (Q100) = 1,000 Cfs.
 Velocity (Q100) = 9.4 Ft./Sec.
 Q100 Elev. = 743.61 Ft.
 Estimated Q100 Low Scour Elev. = 729.5 Ft.
 Q500 Elev. = 744.63 Ft.
 Estimated Q500 Low Scour Elev. = 721.2 Ft.



PLAN

Notes:
 See Des. No. 1802075 for Earthwork, Right of Way, Survey Data, and Roadway information.

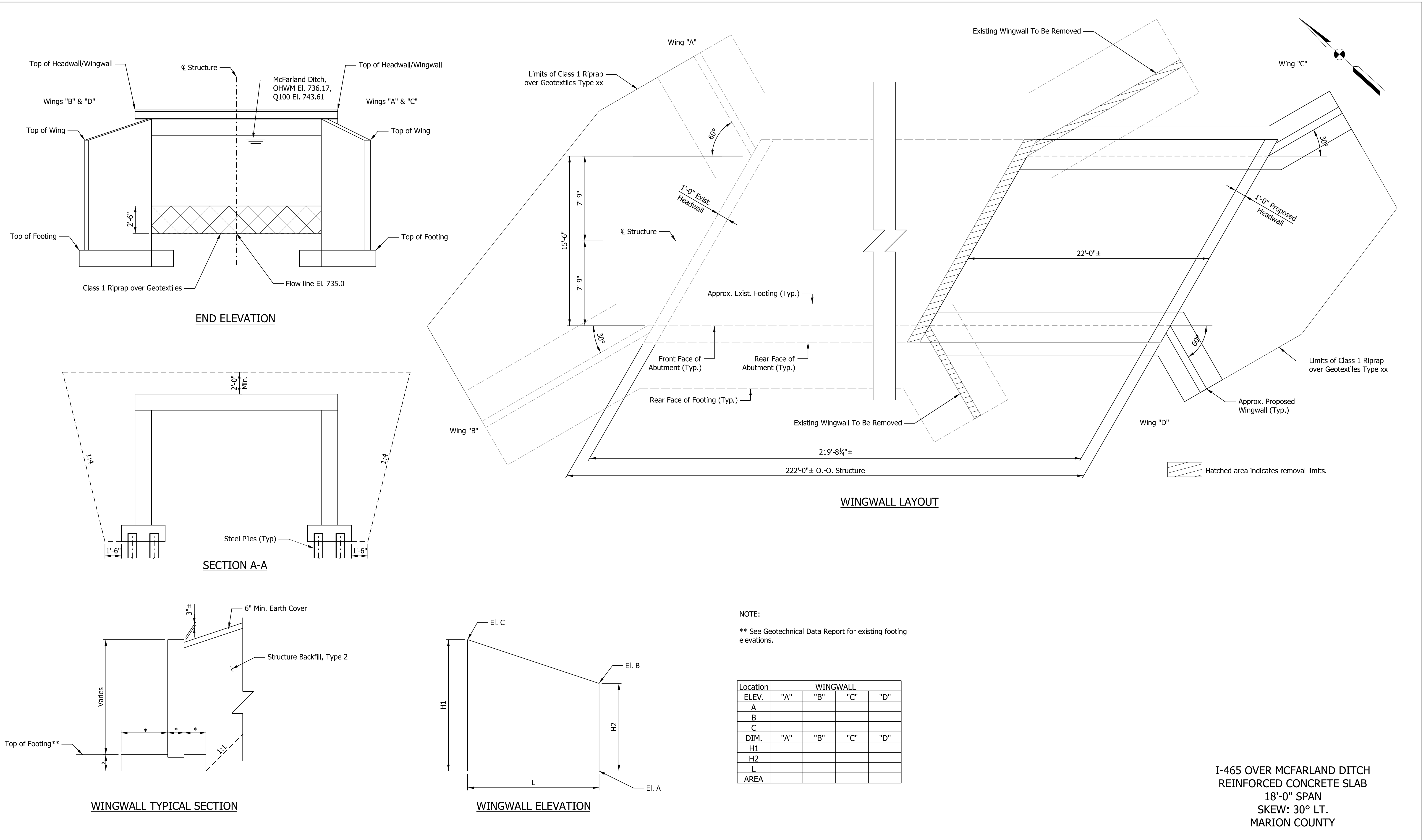
**I-465 OVER MCFARLAND DITCH
 REINFORCED CONCRETE SLAB
 18'-0" SPAN
 SKEW: 30° LT.
 MARION COUNTY**

IP_PWP:dms31258\I-465_Reconfigure_B008_SHT_General Plan.01.dgn
 15-JUL-2019

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: KCW	DRAWN: JEW	
CHECKED: KRM	CHECKED: KRM	

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
1/16"=1'-0"	CV 1465-049-00.30 A
VERTICAL SCALE	DESIGNATION
1/16"=1'-0"	1901390
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 4
CONTRACT	PROJECT
R-41536	1802075



Location	WINGWALL			
ELEV.	"A"	"B"	"C"	"D"
A				
B				
C				
DIM.	"A"	"B"	"C"	"D"
H1				
H2				
L				
AREA				

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ KCW _____	DRAWN: _____ JEW _____	
CHECKED: _____ KRM _____	CHECKED: _____ KRM _____	

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE 1/16"=1'-0"	BRIDGE FILE CV I465-049-00.30 A
VERTICAL SCALE 1/16"=1'-0"	DESIGNATION 1901390
SURVEY BOOK ELECTRONIC	SHEETS 4 of 4
CONTRACT R-41536	PROJECT 1802075

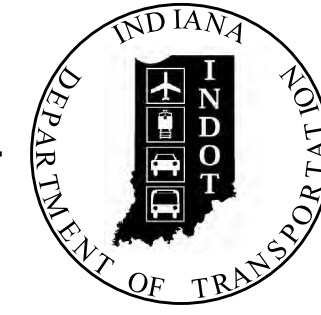
IP_PWP:dms31258\I-465_Reconfigure_B008_SHT_General Plan.02.dgn
15-JUL-2019

PROJECT	DESIGNATION
1802075	1900748 & 1900749
CONTRACT	BRIDGE FILE
R-41536	I465-164-04444 DEBL & CWBL

INDIANA DEPARTMENT OF TRANSPORTATION

See Des. No. 1802075 for Traffic Data

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I465-164-4444 DEBL & CWBL	CONTINUOUS PRESTRESSED CONCRETE SPREAD BOX BEAM BRIDGE	3 Spans: 44'-0", 66'-0" & 44'-0" Skew: 17°26'00"	Lick Creek	487+26.00 Line "ZZ_Combined"



BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET

ROUTE: I-465 AT: RP 1+00

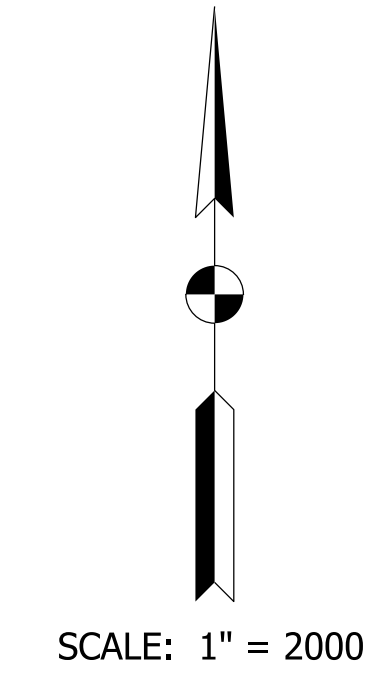
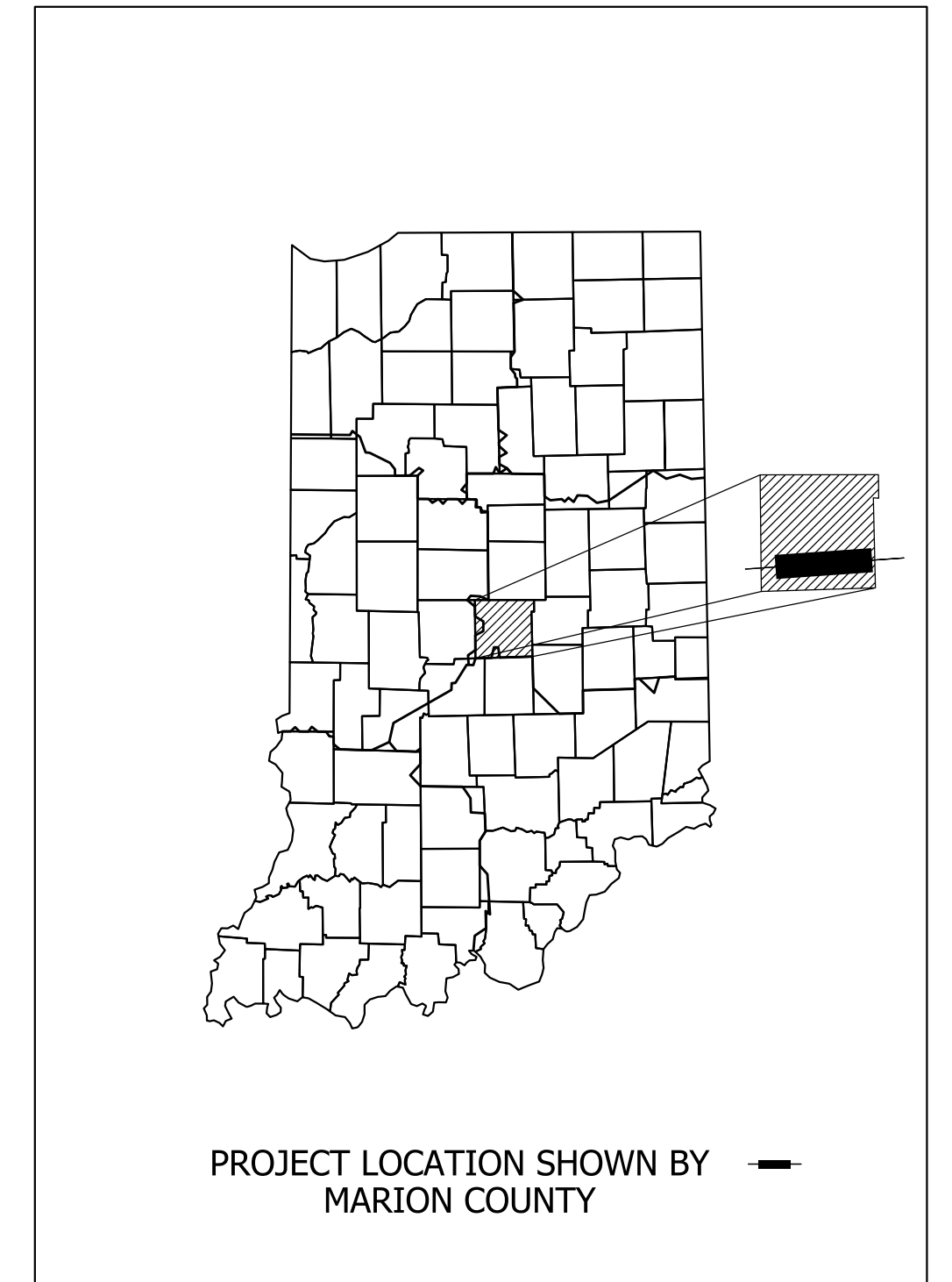
PROJECT NO. 1802075 P.E.
1802075 CONST.

NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

R/W

Bridge Rehabilitation and Widening on I-465 over Lick Creek
Located 1.21 Miles East of US 31
Section 31, T-15-N, R-4-E, Perry Township, Marion County, Indiana

Kin Project Information		
DES. NUMBER	DESCRIPTION	TYPE
1900744	US 31 Over I-465	Bridge
1900757	Madison Ave. Over I-465 & Lick Creek	Bridge
1901390	I-465 Over McFarland Ditch	Small Structure
1900750	Mooreville Road Bypass over I-465	Bridge
1900758	Carson Ave. Over I-465 & Lick Creek	Bridge
1802075	Added Travel Lanes	Road
1901612	CV I465-049-00.27L	Small Structure
1901612	CV I465-049-00.30	Small Structure
1901612	CV I465-049-01.47	Small Structure
1901612	CV I465-049-01.90	Small Structure
1901612	CV I465-049-01.97	Small Structure
1901612	CV I465-049-02.05	Small Structure
1901612	CV I465-049-08.45	Small Structure
1802105	Project A	Road
1802106	Project B	Road
1802107	Project C	Road
1900769	Traffic: Signing, Markings, Lighting, ITS	Road



LATITUDE: 39° 42' 01" N LONGITUDE: 86° 07' 36" W

BRIDGE LENGTH: 0.30 MI.
ROADWAY LENGTH: SEE ROADWAY PLANS MI.
TOTAL LENGTH: SEE ROADWAY PLANS MI.
MAX. GRADE: SEE ROADWAY PLANS %

Structure I465-164-4444 DEBL & CWBL
I-465 Over Lick Creek
487+26.00 Line "ZZ_Combined"



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

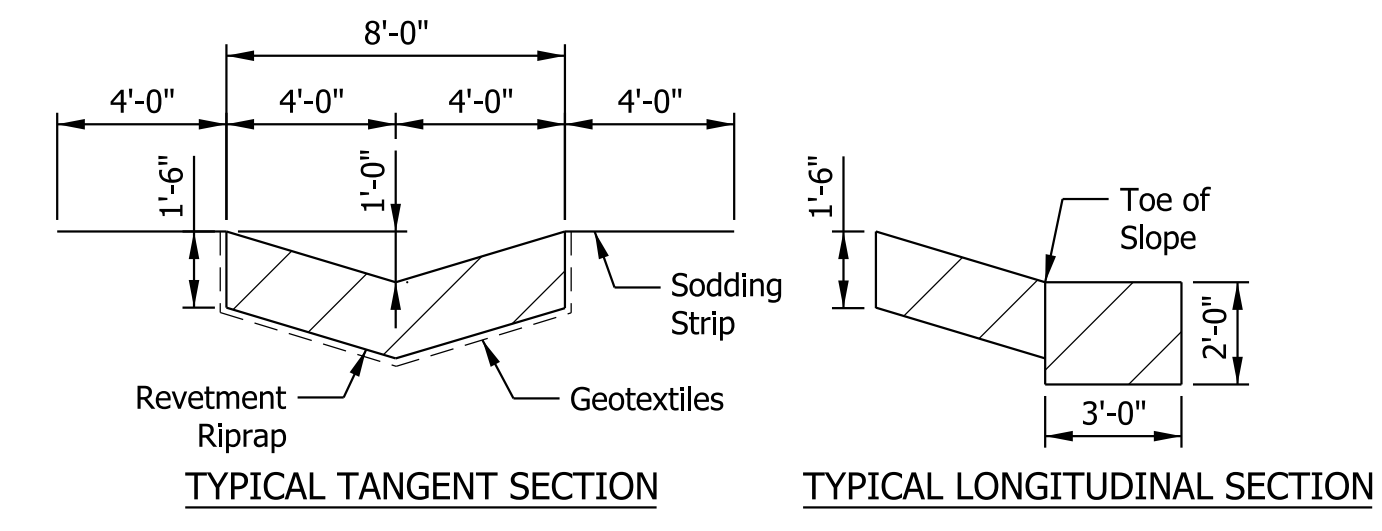
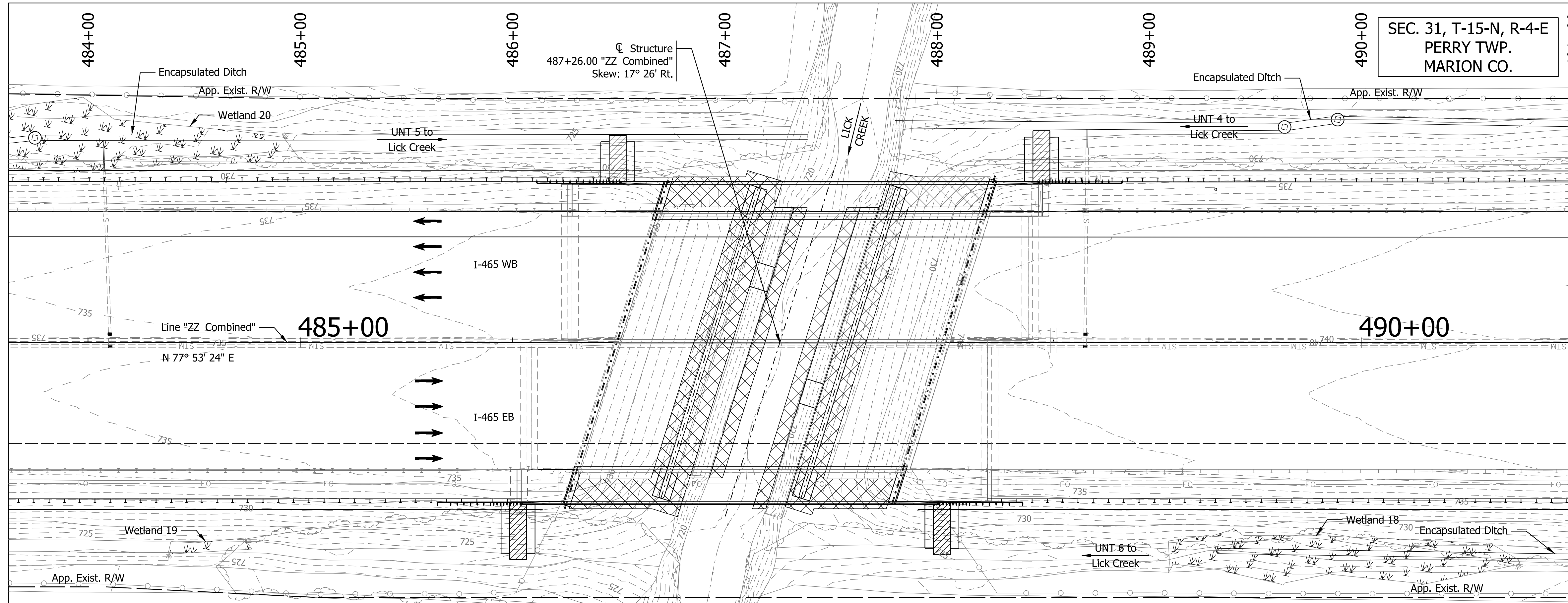
PARSONS

101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

IP_PWP:dms31258\I-465_Reconfigure_B005 & B006_SHT_Title.dgn
09-JUL-2019

PLANS PREPARED BY: PARSONS 317-616-1000 PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
I465-164-04444 DEBL&CWBL	
DESIGNATION	
1900748 & 1900749	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 5
CONTRACT	PROJECT
R-41536	1802075



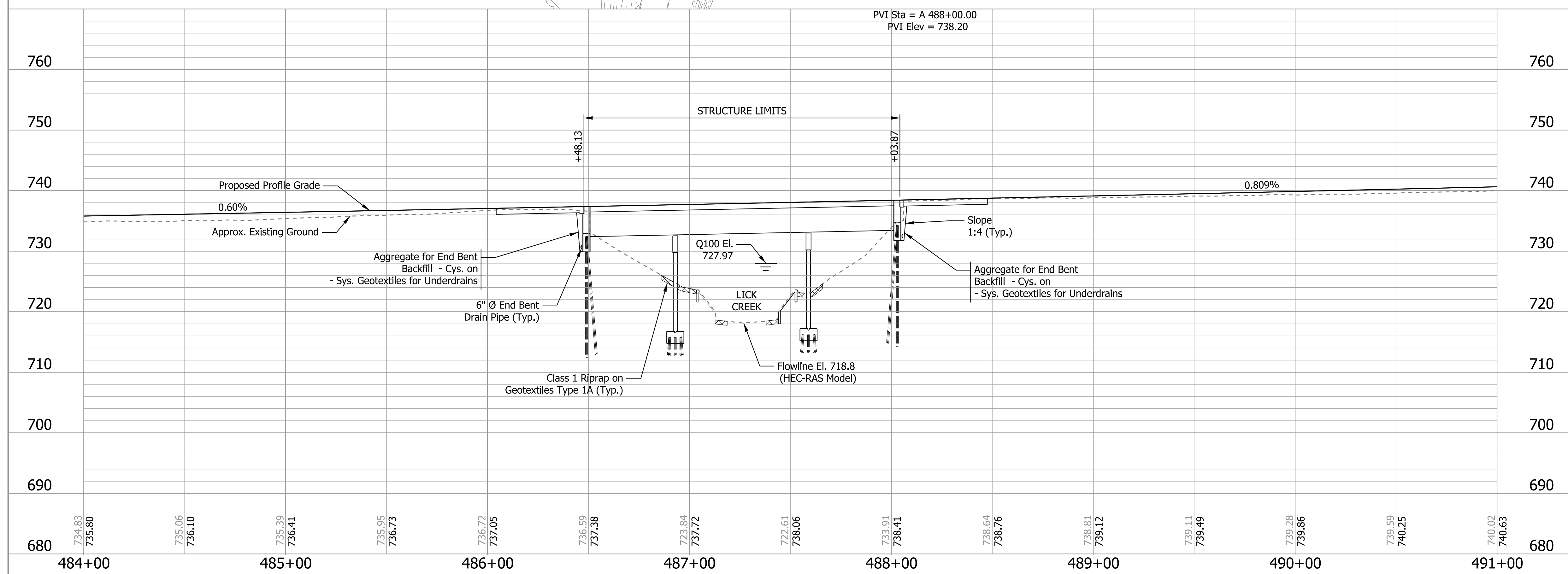
RIPRAP DRAINAGE TURNOUT DETAILS
Not To Scale

HYDRAULIC SCOUR DATA

Drainage Area	= 18.35 Sq. Mi.
Design Discharge (Q100)	= 3,889 Cfs.
Flowline Elev.	= 718.8 Ft.
Q100 Elev.	= 727.97 Ft.
Max. Velocity (Q100)	= 9.2 Ft./Sec.
Estimated Scour Elev.	= 714.06 Ft.
Design Discharge (Q500)	= 4,987 Cfs.
Q500 Elev.	= 728.95
Max. Velocity (Q500)	= 10.3 Ft./Sec.
Estimated Scour Elev. (Q500)	= 712.56 Ft.

EXISTING STRUCTURE

The existing concrete box beam bridge was built in 1959 with 3 spans: 44'-0", 66'-0" and 44'-0". The superstructure was replaced in 1992 with a 58'-1 1/2" min. clear roadway reinforced concrete deck. Existing structure to be widened.



NOTES:

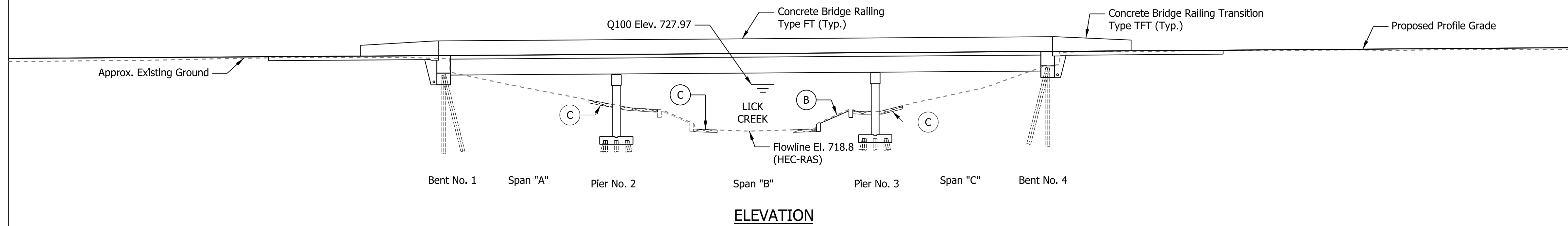
- For R/W and Additional information see Roadway Plan & Profile sheets.
- For Utility Contacts see Index Sheet No.2.
- Cross-Hatched areas indicate limits of Class 1 riprap over geotextile for riprap type 1A. (TBD Tons Class 1 riprap over TBD Sys. geotextile for riprap type 1A)
- Hatched areas indicate limits of revetment riprap over geotextile for riprap type 1A for riprap drainage turnouts. (TBD Tons revetment riprap over TBD Sys. geotextile for riprap type 1A)

PRESTRESSED CONCRETE SPREAD BOX BEAM BRIDGE
3 SPANS: 44'-0", 66'-0", & 44'-0"
73'-1 1/2" CLEAR ROADWAY; SKEW: 17° 26' RT.
I-465 OVER LICK CREEK
MARION COUNTY

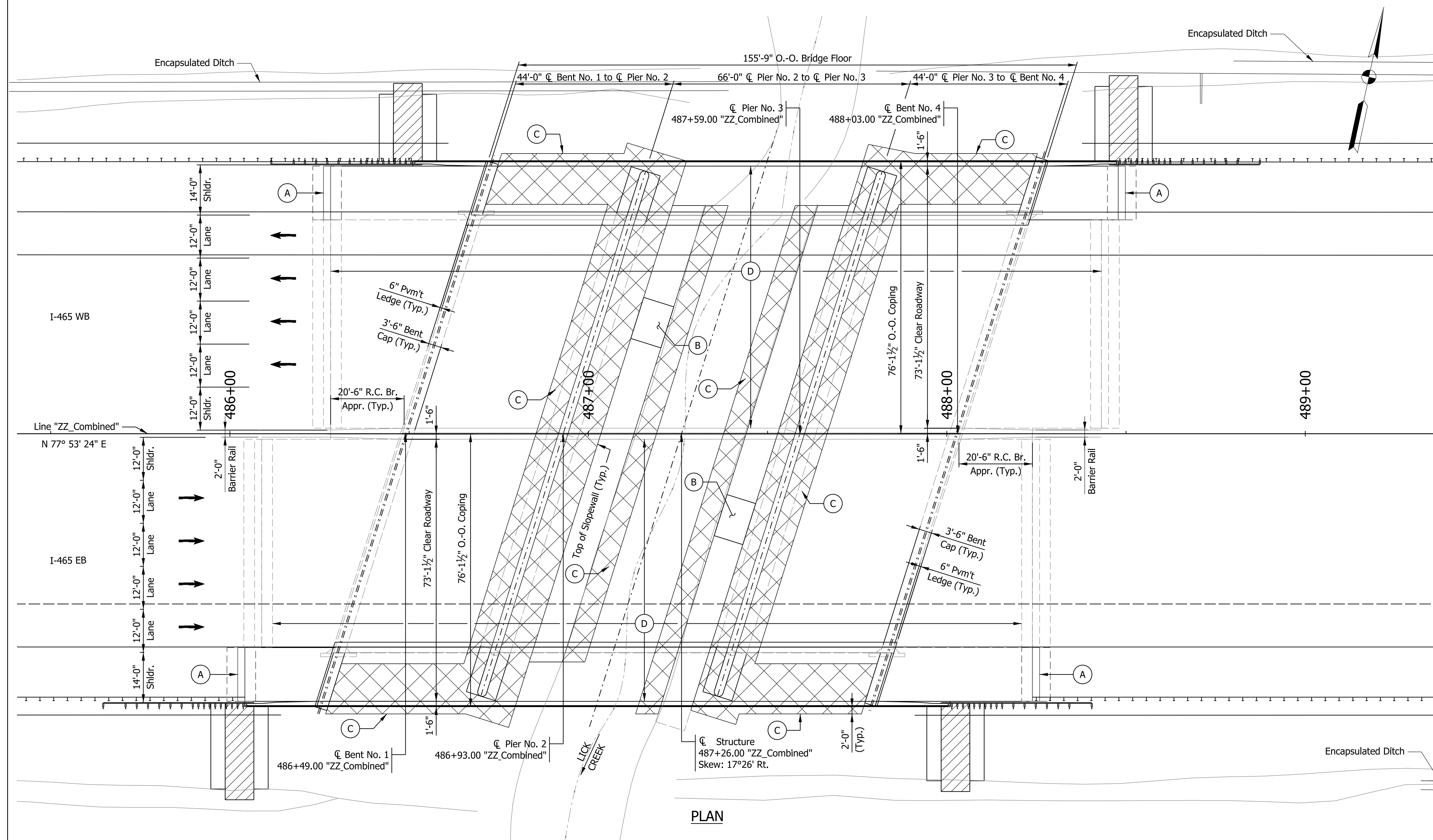
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
				1"=30'-0"	1465-164-04444 DEBL&CWBL
DESIGNED: KCW	DRAWN: JEW	CHECKED: KRM	LAYOUT	VERTICAL SCALE	DESIGNATION
				1"=10'-0"	1900748 & 1900749
				SURVEY BOOK	SHEETS
				ELECTRONIC	3 of 5
				CONTRACT	PROJECT
				R-41536	1802075

IP_PWP:dms31258\1-465_Reconfigure_B005 B006_SHT_Layout.dgn
09-JUL-2019

STRUCTURE BUILT ON AN 800' VERTICAL CURVE



ELEVATION



PLAN

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in Top and 1" min. In bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

DESIGN DATA

Designed for HS-20 Loading, in accordance with AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002, and its subsequent interims.

DEAD LOAD

Actual weight plus 35 psf. of future wearing surface and 15 psf for SIP Metal deck forms.

FLOOR SLAB

Designed with a 7 1/2" structural depth, and a 1/2" integral wearing surface.

DESIGN STRESSES

CONCRETE

Prestressed Concrete f_c = 7,000 p.s.i.
 Class "A" Concrete f_c = 3,500 p.s.i.
 Class "B" Concrete f_c = 3,000 p.s.i.
 Class "C" Concrete f_c = 4,000 p.s.i.

REINFORCING STEEL

Grade 60 f_y = 60,000 p.s.i.

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lb/Sft for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD

Designed for 20 lb/Sft extending 2-ft past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

FINISHING MACHINE LOAD

4500 lb distributed over 10-ft along the coping.

WIND LOAD

Structure Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

SEISMIC DESIGN DATA

Seismic Performance Zone Zone x
 Acceleration Coefficient (S_{D1}) 0.xxx
 Seismic Soil Profile Type Site Class x

LEGEND

- (A) Widen Reinforced Concrete Bridge Approaches. Place Polymer Modified Asphalt Terminal Joints
- (B) Replace cracked existing panels of Concrete Slopewall and extend slopewalls using Class 1 riprap under new portions of bridge
- (C) Widen slopewalls with Class 1 riprap and place Class 1 Riprap scour protection at existing and proposed piers. Place Class 1 riprap along toe of channel slopewall.
- (D) Place Rigid Concrete overlay on Widened Bridge Deck and Approaches

PRESTRESSED CONCRETE SPREAD BOX BEAM BRIDGE
 3 SPANS: 44'-0", 66'-0", & 44'-0"
 73'-1 1/2" CLEAR ROADWAY; SKEW: 17° 26' RT.
 I-465 OVER LICK CREEK
 MARION COUNTY

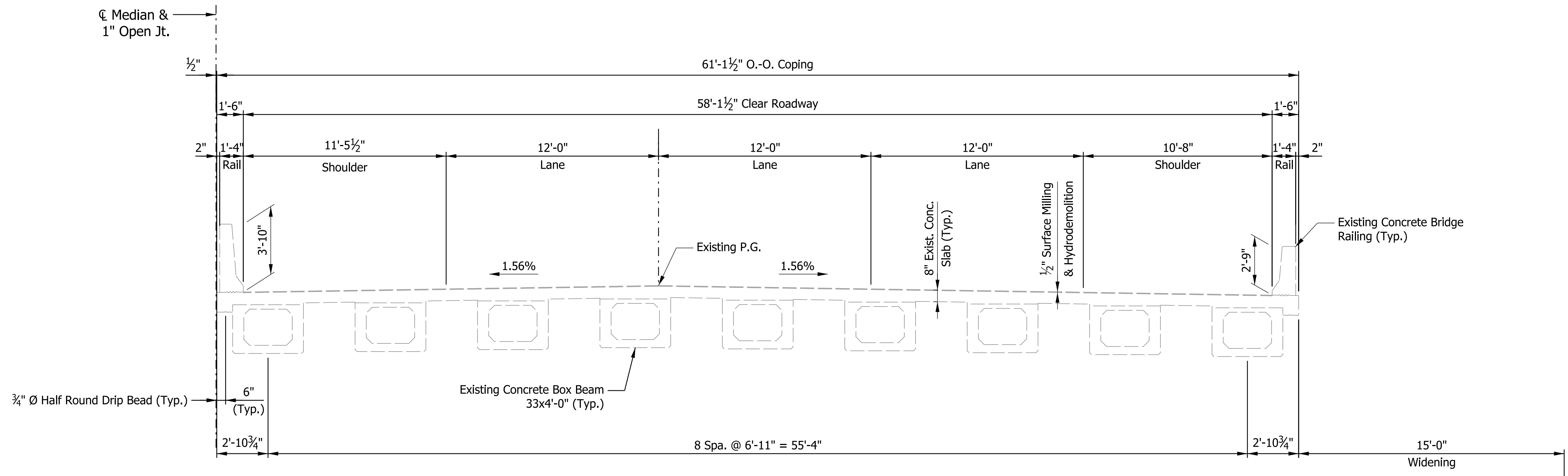
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: KCW	DRAWN: JEW	
CHECKED: KRM	CHECKED: KRM	

INDIANA
 DEPARTMENT OF TRANSPORTATION

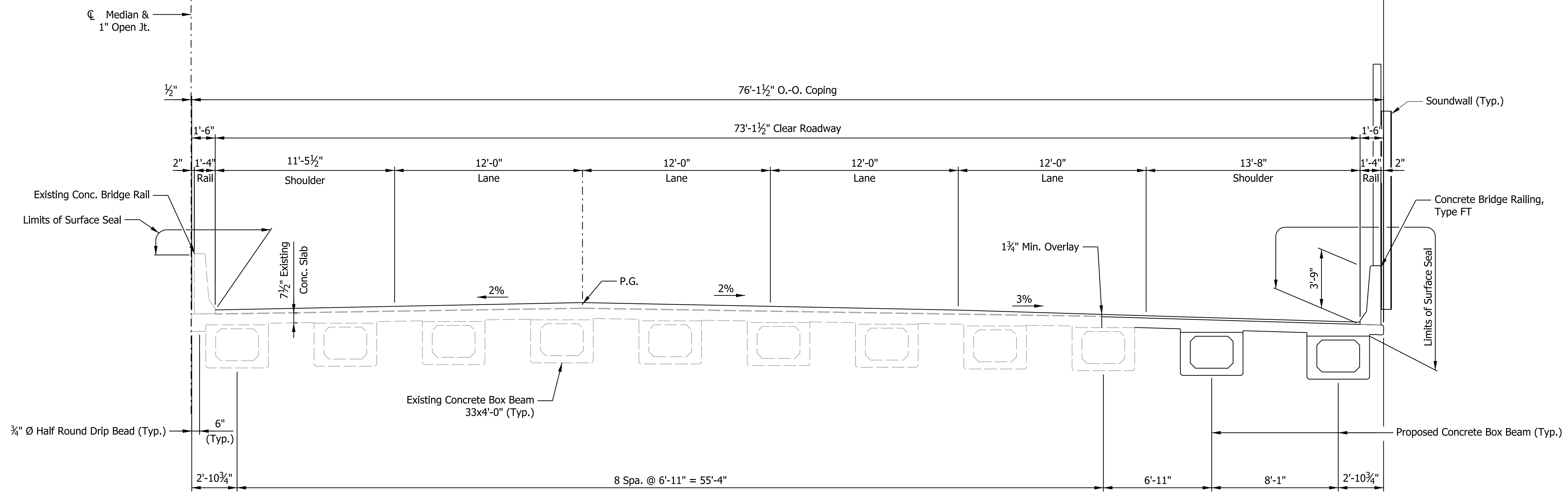
GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/16"=1'-0"	1465-164-04444 DEBL&CWBL
VERTICAL SCALE	DESIGNATION
1/16"=1'-0"	1900748 & 0900749
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 5
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B005 B006_SHT_General Plan.01.dgn
 09-JUL-2019



EXISTING E.B. TYPICAL SECTION
(W.B. Same by 180°)



PROPOSED E.B. TYPICAL SECTION
(W.B. Same by 180°)

PRESTRESSED CONCRETE SPREAD BOX BEAM BRIDGE
3 SPANS: 44'-0", 66'-0", & 44'-0"
73'-1 1/2" CLEAR ROADWAY; SKEW: 17° 26' RT.
I-465 OVER LICK CREEK
MARION COUNTY

IP_PWP:dms31258\1-465_Reconfigure_B005 B006_SHT_General Plan.02.dgn
09-JUL-2019

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: <u>KCW</u>	DRAWN: <u>JEW</u>	
CHECKED: <u>KRM</u>	CHECKED: <u>KRM</u>	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

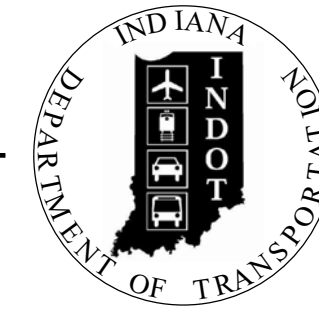
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	1465-164-04444 CEBL&CWBL
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1900748 & 0900749
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 5
CONTRACT	PROJECT
R-41536	1802075

PROJECT	DESIGNATION
1701345	1701345
CONTRACT	BRIDGE FILE
R-41536	1465-164-10255

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN & SKEW	OVER	STATION
1465-164-10255	CONTINUOUS COMPOSITE BEAM BRIDGE	2 SPANS: 2 @ 96'-10 3/8" SKEW: 11° LT.	I-465	247+32.80 "S-12-ZZ"

KIN PROJECT INFORMATION		
DESIGNATION	PROJECT DESCRIPTION	TYPE
1901612	CV 1465-049-00.27L	SMALL STRUCTURE
1901612	CV 1465-049-00.30	SMALL STRUCTURE
1901612	CV 1465-049-01.47	SMALL STRUCTURE
1901612	CV 1465-049-01.90	SMALL STRUCTURE
1901612	CV 1465-049-01.97	SMALL STRUCTURE
1901612	CV 1465-049-02.05	SMALL STRUCTURE
1901612	CV 1465-049-08.45	SMALL STRUCTURE
1802105	PROJECT A	ROAD
1802106	PROJECT B	ROAD
1802107	PROJECT C	ROAD
1900744	US 31 OVER I-465	BRIDGE
1900748	I-465 EBL OVER LICK CREEK	BRIDGE
1900749	I-465 WBL OVER LICK CREEK	BRIDGE
1900750	MOORESVILLE ROAD BYPASS OVER I-465	BRIDGE
1900757	MADISON AVENUE OVER I-465	BRIDGE
1900758	CARSON AVENUE OVER I-465	BRIDGE
1901390	I-465 OVER MCFARLAND CREEK	SMALL STRUCTURE
1900769	TRAFFIC: SIGNING, MARKINGS, LIGHTING, ITS	ROAD
1802075	ADDED TRAVEL LANES	ROAD

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: KEYSTONE AVENUE AT: RP 0 + 68

PROJECT NO. 1701345 P.E.

N/A R/W

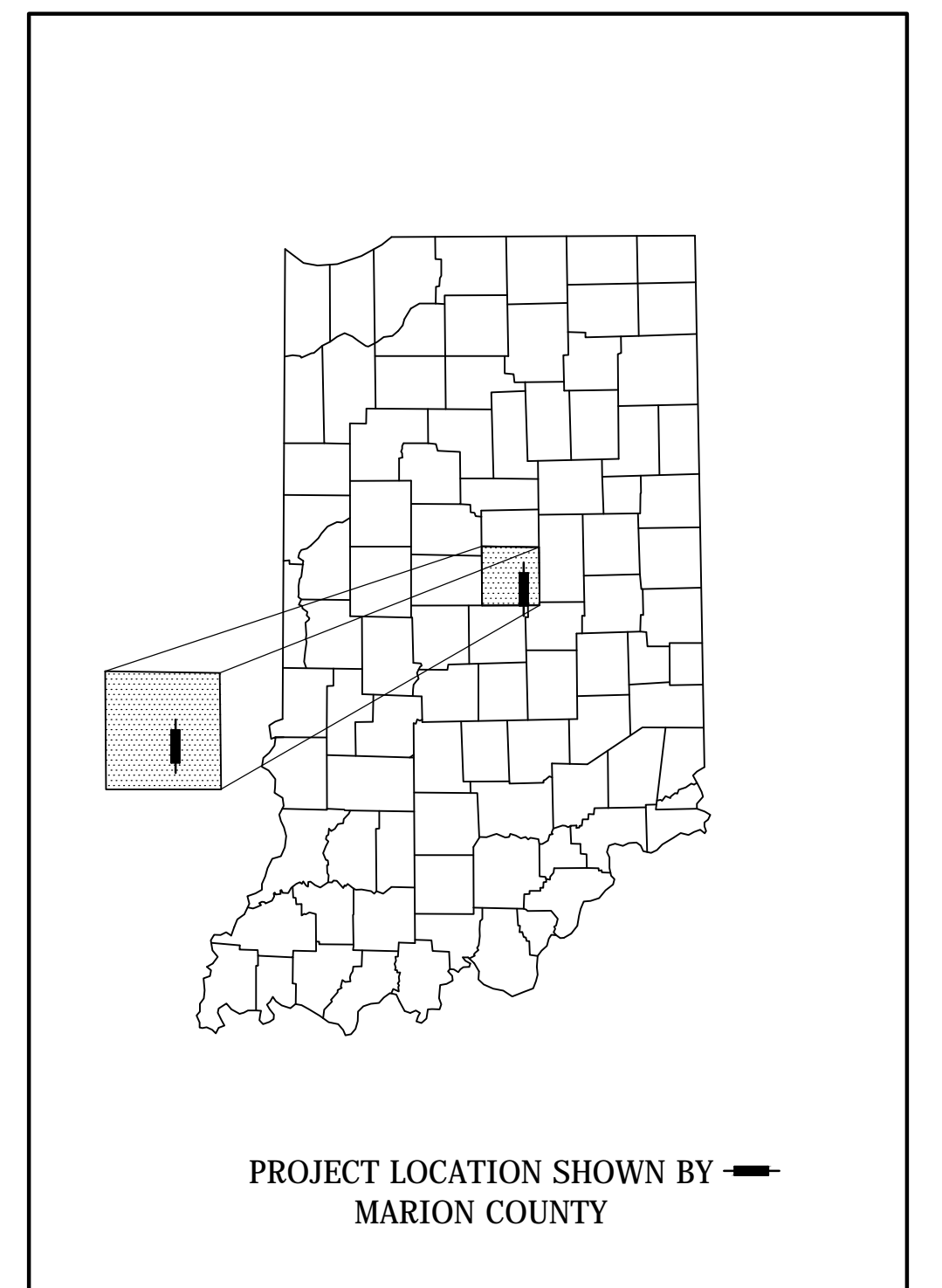
1701345 CONST.

NO ADDITIONAL RIGHT OF WAY REQUIRED FOR THIS PROJECT

Bridge Replacement carrying Keystone Avenue over I-465
 Located 0.68 miles west of the intersection of I-65 & I-465
 Section 31 & 32, Township 15 North, Range 4 East
 Perry Township, Marion County, Indiana

TRAFFIC DATA		
A.A.D.T.	(2018)	10,320 V.P.D.
A.A.D.T.	(2040)	12,846 V.P.D.
D.H.V.	(2040)	1567 V.P.H.
DIRECTIONAL DISTRIBUTION		46 %
COMMERCIAL VEHICLES		5% A.A.D.T.

DESIGN DATA	
DESIGN SPEED	40 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 39° 42' 05" N LONGITUDE: 86° 07' 14" W

BRIDGE LENGTH:	0.037 MI.
ROADWAY LENGTH:	0.065 MI.
TOTAL LENGTH:	0.102 MI.
MAX. GRADE:	2.83 %

HUC: 05120201130060



INDIANA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS DATED 2020 TO
 BE USED WITH THESE PLANS.

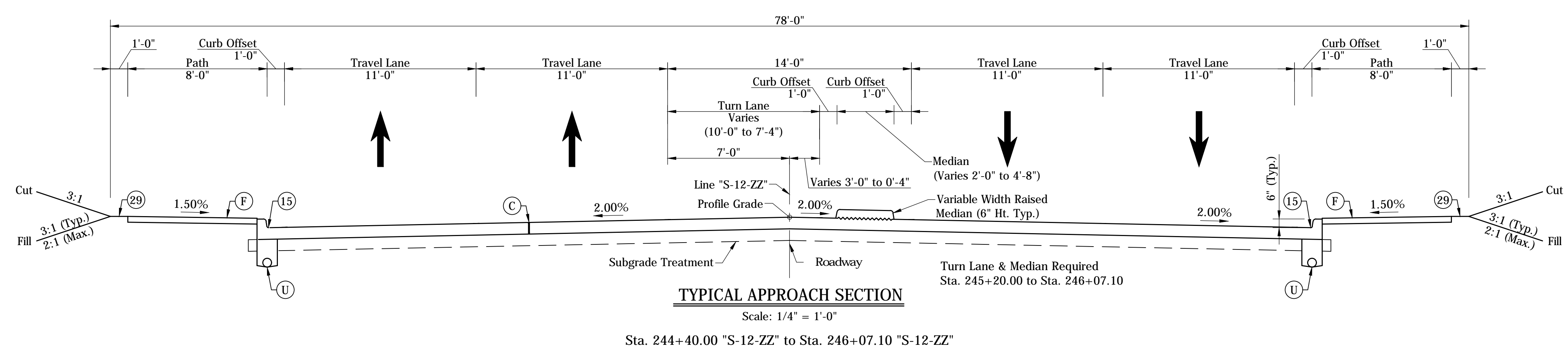
PLANS PREPARED BY:	Butler Fairman and Seufert Inc.	(317)713-4615
CERTIFIED BY:		PHONE
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
1465-164-10255	
DESIGNATION	
1701345	
SURVEY BOOK	SHEET
ELECTRONIC	1 OF 14
CONTRACT	PROJECT
R-41536	1701345

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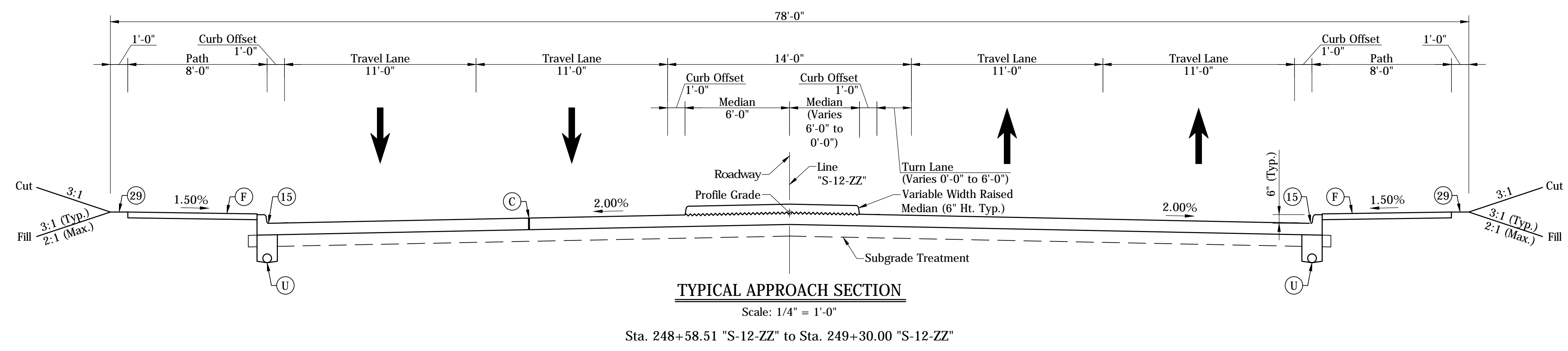
6373

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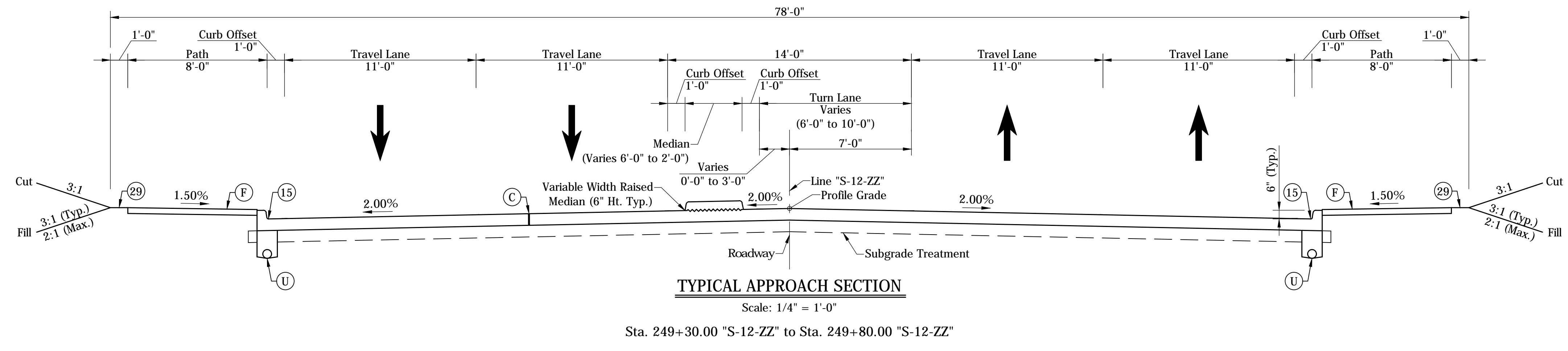
TYPICAL APPROACH SECTION
Scale: 1/4" = 1'-0"

Sta. 244+40.00 "S-12-ZZ" to Sta. 246+07.10 "S-12-ZZ"



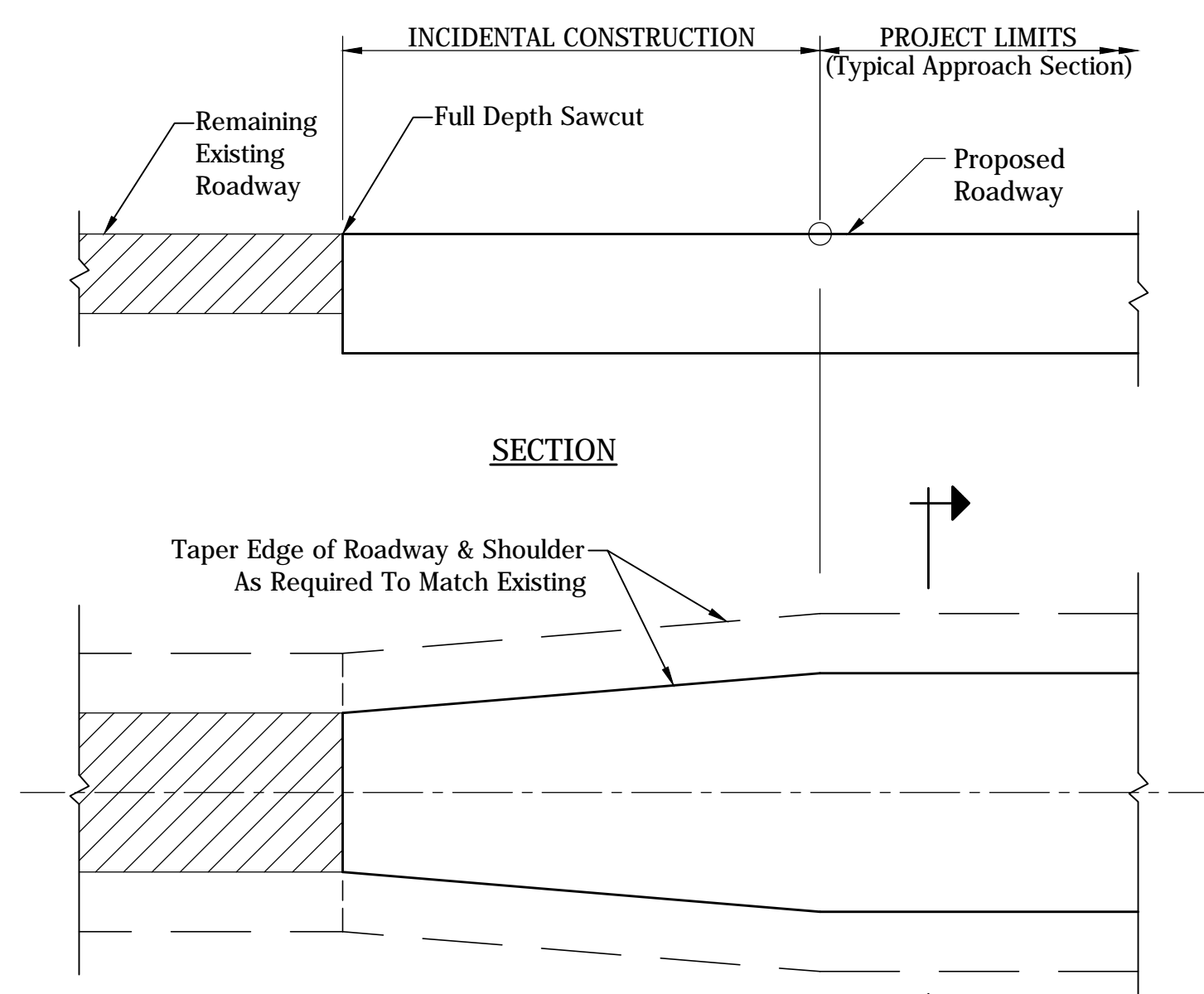
TYPICAL APPROACH SECTION
Scale: 1/4" = 1'-0"

Sta. 248+58.51 "S-12-ZZ" to Sta. 249+30.00 "S-12-ZZ"

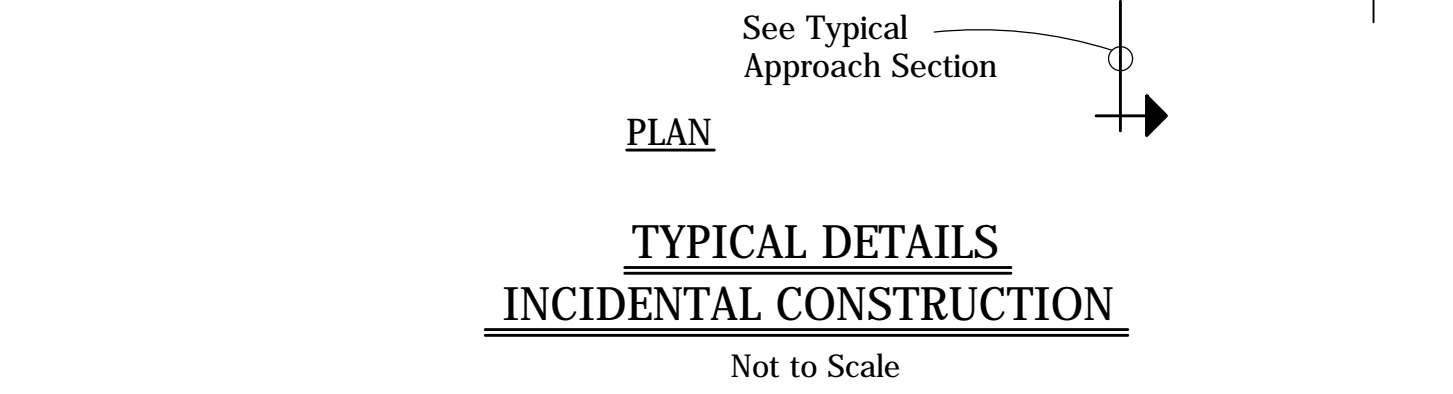


TYPICAL APPROACH SECTION
Scale: 1/4" = 1'-0"

Sta. 249+30.00 "S-12-ZZ" to Sta. 249+80.00 "S-12-ZZ"



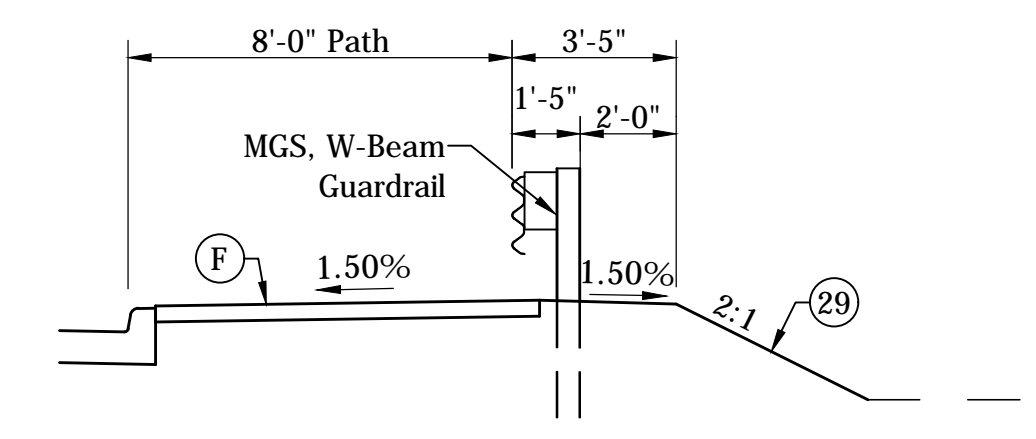
SECTION



PLAN

**TYPICAL DETAILS
INCIDENTAL CONSTRUCTION**

Not to Scale



TYPICAL SECTION WITH GUARDRAIL

Scale: 1/4" = 1'-0"

LEGEND

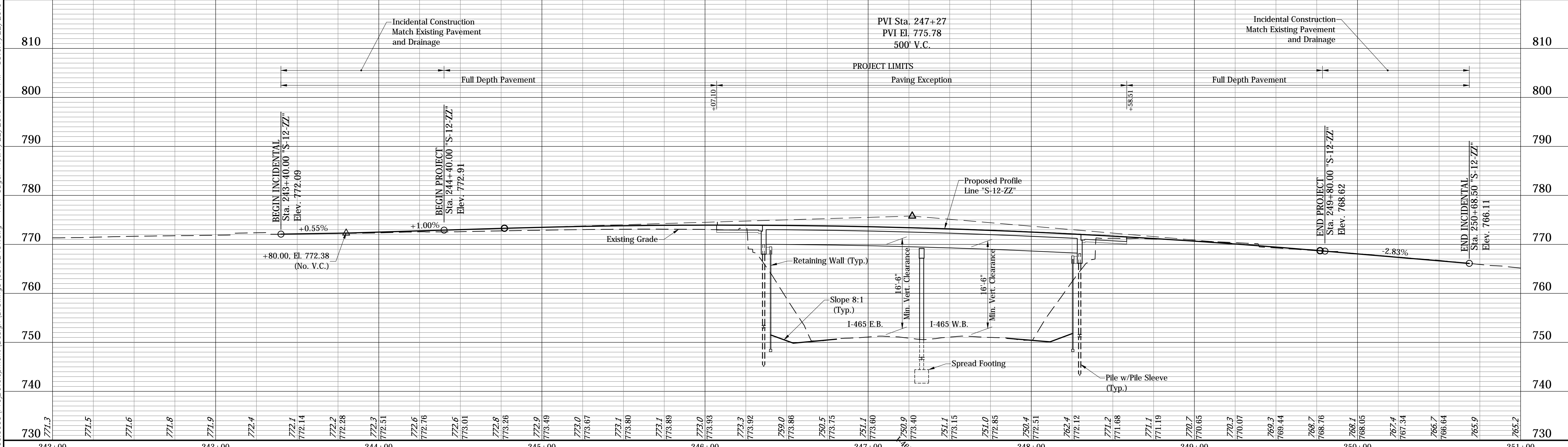
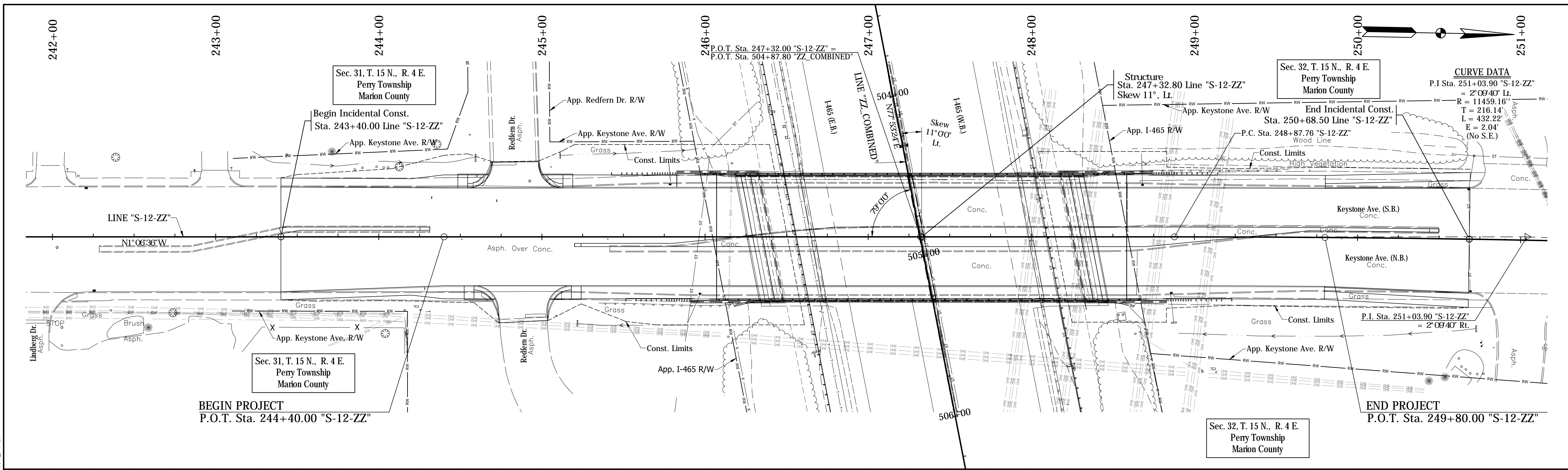
(C) P.C.C.P. For Mainline	(15) Curb & Gutter, Combined
(F) Sidewalk, Concrete	(29) Mulched Seeding, Type U
(U) Underdrain	

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED:	K. SHERGALIS	DRAWN: L. KIRSCH
CHECKED:	B. BUTZ	CHECKED: K. SHERGALIS

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL APPROACH SECTION	

HORIZONTAL SCALE	BRIDGE FILE
N/A	1465-164-10255
VERTICAL SCALE	DESIGNATION
N/A	1701345
SURVEY BOOK	SHEET
ELECTRONIC	3 OF 14
CONTRACT	PROJECT
R-41536	1701345

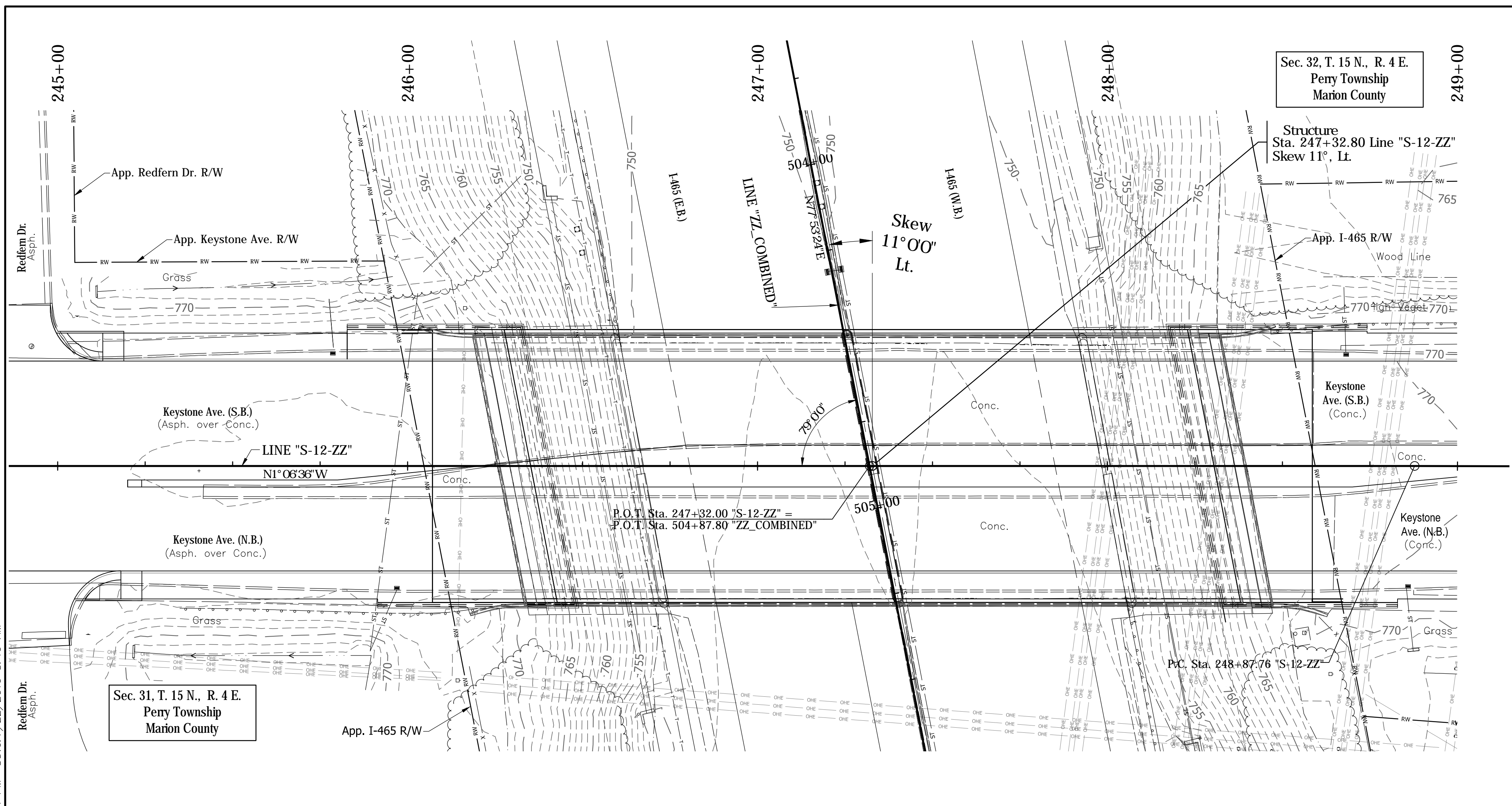
BFS NO. 6373



NOTE: See Road Plans (DES #1802075) for Horizontal & Vertical Control Data.		RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION PLAN & PROFILE LINE "S-12-ZZ"		HORIZONTAL SCALE 1" = 30'-0"		BRIDGE FILE 1465-164-10255	
		DESIGNED: K. SHERGALIS DRAWN: L. KIRSCH				VERTICAL SCALE 1" = 10'-0"		DESIGNATION 1701345	
		CHECKED: B. BUTZ CHECKED: K. SHERGALIS				SURVEY BOOK ELECTRONIC		SHEET 4 OF 14	
						CONTRACT R-41536		PROJECT 1701345	

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 BFS NO.

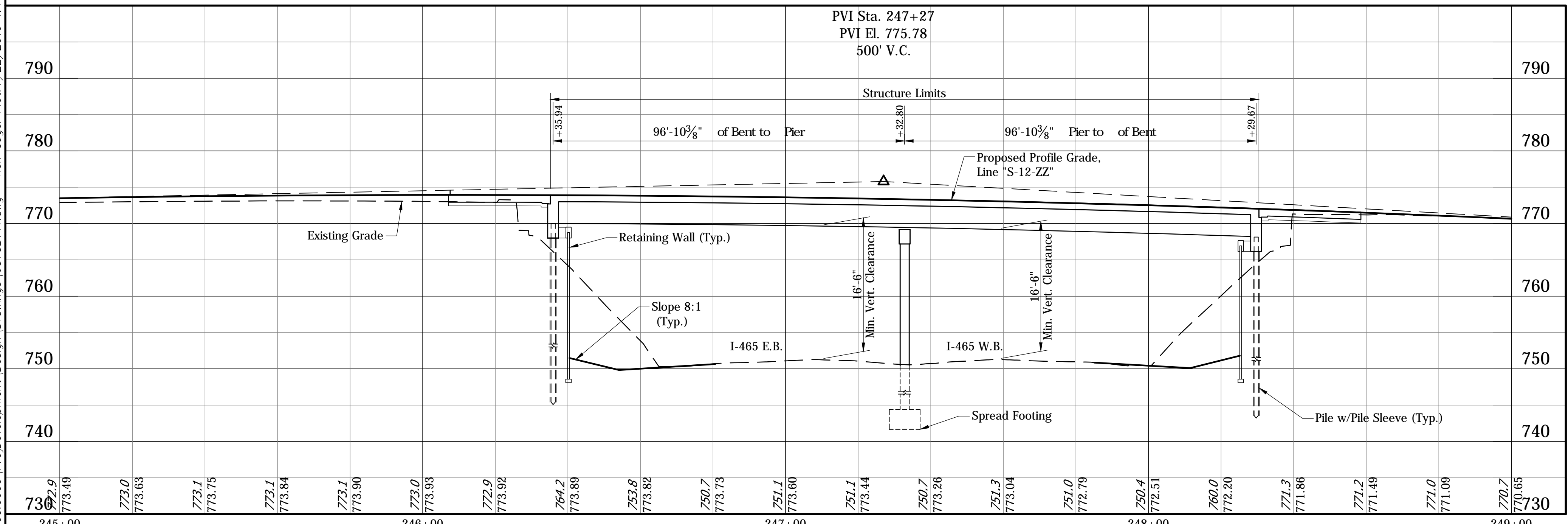


EXISTING STRUCTURE

The existing structure is a 4-span reinforced concrete girder bridge built in 1962 with a total length of 214.06 ft and a total width of 78.33 ft. Existing structure to be removed.

EARTHWORK TABULATION

See Roadway Plans (DES #1802075) for earthwork tabulation.



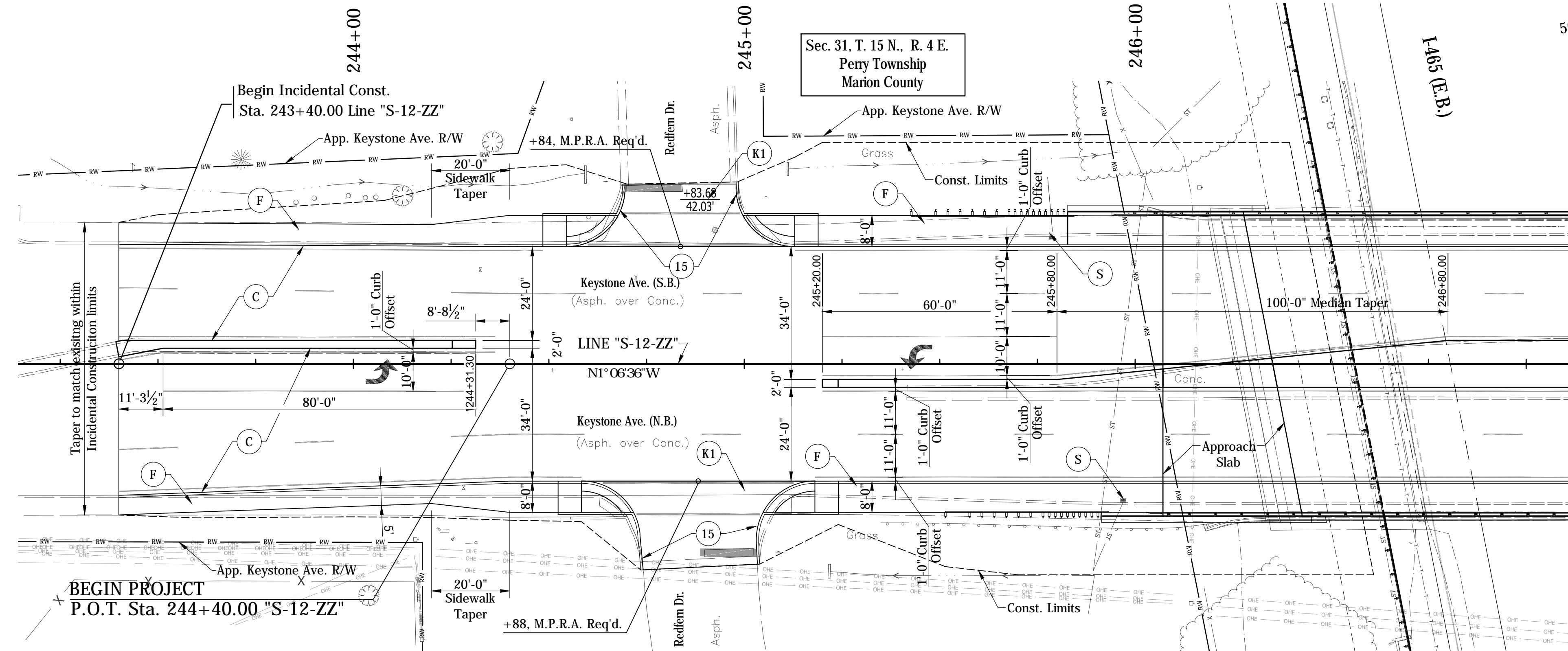
CONTINUOUS COMPOSITE BEAM BRIDGE
 2 SPANS: 2 @ 96'-10 3/8"
 2 @ 24'-0" CLEAR ROADWAY; SKEW: 11° LT.
 KEYSTONE AVENUE OVER I-465

NOTE: See Road Plans (DES #1802075) for Horizontal & Vertical Control Data.	RECOMMENDED FOR APPROVAL: _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION LAYOUT	HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 1465-164-10255
	DESIGNED: K. SHERGALIS DRAWN: L. KIRSCH CHECKED: B. BUTZ CHECKED: K. SHERGALIS		VERTICAL SCALE 1" = 10'	DESIGNATION 1701345
			SURVEY BOOK ELECTRONIC 5 OF 14 CONTRACT PROJECT R-41536 1701345	SHEET 5 OF 14 PROJECT 1701345

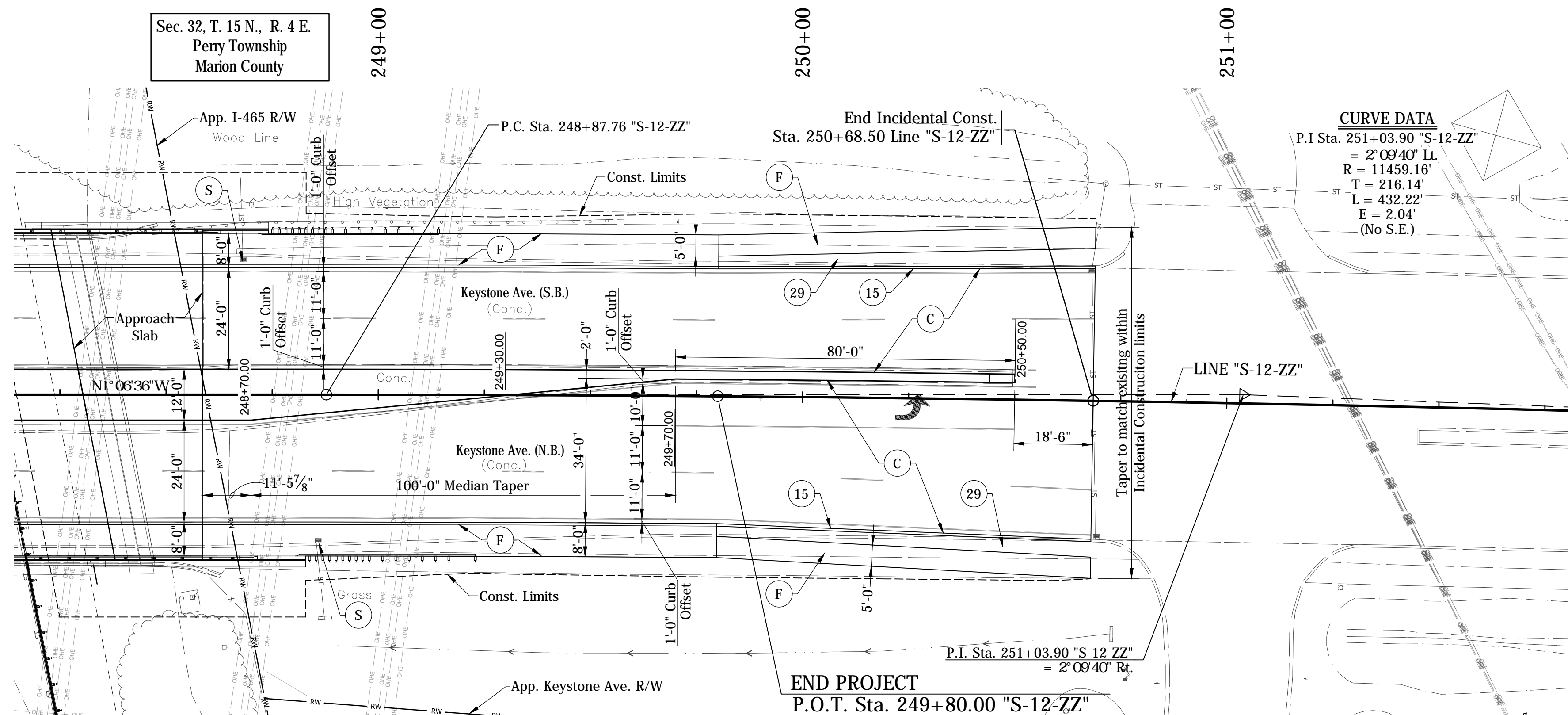
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KEYSTONE AVE. CONSTRUCTION DETAIL
 Sta. 243+40.00 to Sta. 246+07.10
 Scale: 1" = 20'



CURVE DATA

P.I. Sta. 251+03.90 "S-12-ZZ"
 = 2°09'40" Lt.
 R = 11459.16'
 T = 216.14'
 L = 432.22'
 E = 2.04'
 (No S.E.)

KEYSTONE AVE. CONSTRUCTION DETAIL
 Sta. 248+58.51 to Sta. 250+68.50
 Scale: 1" = 20'

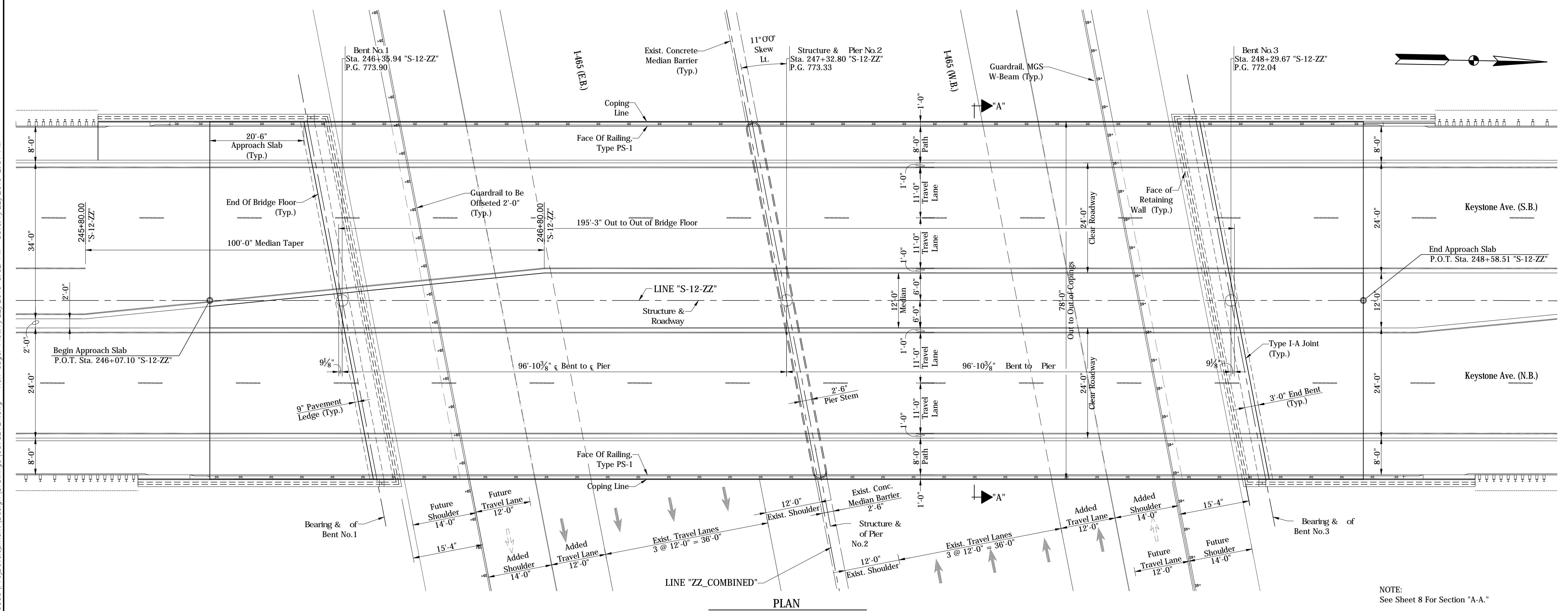
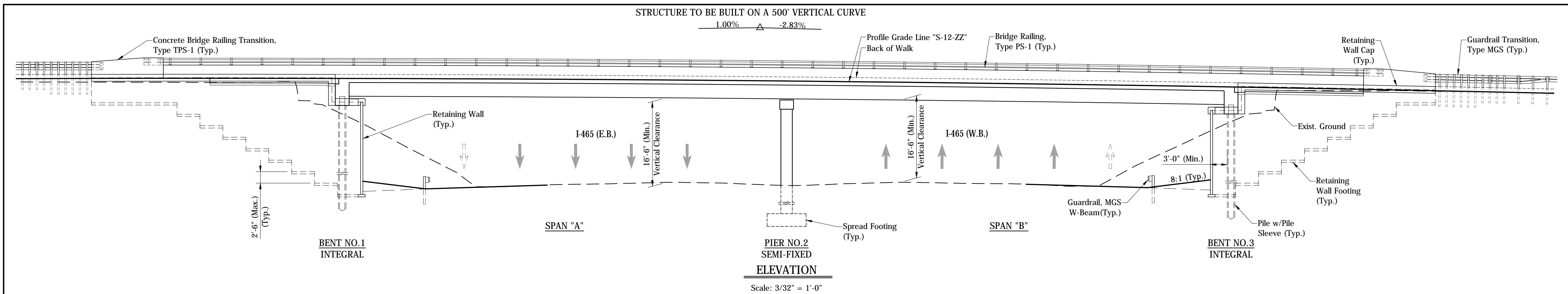
- LEGEND**
- (C) P.C.C.P. For Mainline
 - (F) Sidewalk, Concrete
 - (K1) HMA For Approaches
 - (S) Inlet Structure (See Notes)
 - (15) Curb & Gutter, Combined
 - (29) Mulched Seeding, U

NOTES:
 See Road Plans (DES #1802075) For Horizontal & Vertical Control Data.

Storm Sewer & Drainage system to be designed by Design/Build Contractor and shall tie into existing.

RECOMMENDED FOR APPROVAL: DESIGN ENGINEER: _____ DATE: _____ DESIGNED: K. SHERGALIS DRAWN: L. KIRSCH CHECKED: B. BUTZ CHECKED: K. SHERGALIS	INDIANA DEPARTMENT OF TRANSPORTATION CONSTRUCTION DETAILS	HORIZONTAL SCALE 1" = 20' BRIDGE FILE 1465-164-10255	VERTICAL SCALE NA DESIGNATION 1701345
		SURVEY BOOK ELECTRONIC CONTRACT R-41536	SHEET OF 14 PROJECT 1701345

BFS NO. 6373



CONTINUOUS COMPOSITE BEAM BRIDGE
2 SPANS: 2 @ 96'-10 3/8"
2 @ 24'-0" CLEAR ROADWAY; SKEW: 11° LT.
KEYSTONE AVENUE OVER I-465

RECOMMENDED FOR APPROVAL:	DESIGN ENGINEER	DATE
DESIGNED:	K. SHERGALIS	DRAWN: L. KIRSCH
CHECKED:	M. EICHENAUER	CHECKED: K. SHERGALIS

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I465-164-10255
VERTICAL SCALE	DESIGNATION
N/A	1701345
SURVEY BOOK	SHEET
ELECTRONIC	7 OF 14
CONTRACT	PROJECT
R-41536	1701345

NOTE:
See Sheet 8 For Section "A-A."

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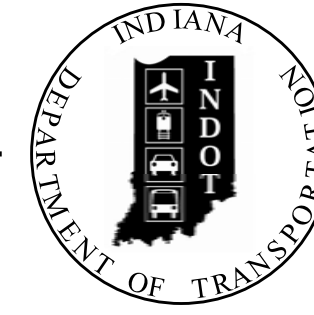
BFS NO. 6373

PROJECT 1802075	DESIGNATION 1900744
CONTRACT R-41536	BRIDGE FILE 031-49-04448 C

INDIANA DEPARTMENT OF TRANSPORTATION

See Des. No. 1802075 for Traffic Data

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
031-49-04448 C	Continuous Composite Steel Beam Bridge	7 Spans: 40'-8 ³ / ₈ ", 88' ⁹ / ₄ ", 44'-3 ³ / ₈ ", 44'-11 ¹ / ₄ ", 44'-3 ³ / ₈ ", 88'-9 ¹ / ₄ ", & 40'-8 ³ / ₈ " Skew: 15°24'00"	I-465 and Lick Creek	24+13.73 Line "PR-S-10-ZZ"



BRIDGE PREVENTATIVE MAINTENANCE PLANS

FOR SPANS OVER 20 FEET

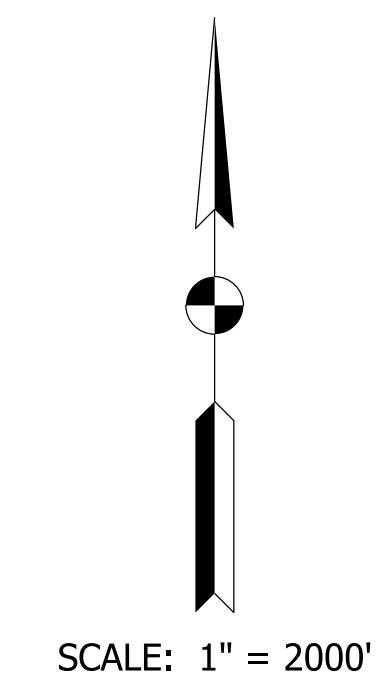
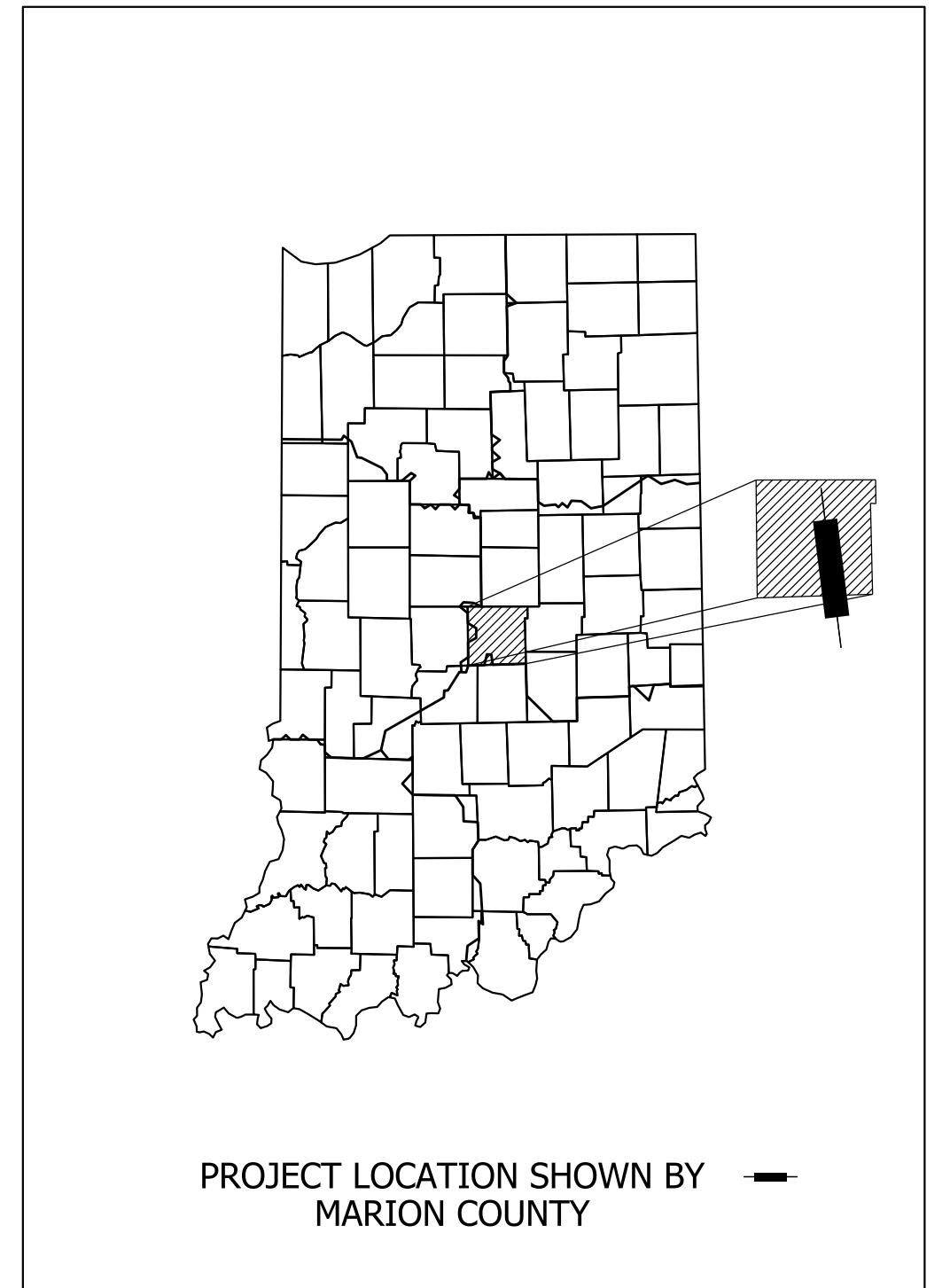
ROUTE: US 31 AT: RP 107+11

PROJECT NO. 1802075 P.E. R/W
1802075 CONST.

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

Slope Wall Replacement on US 31 over I-465 and Lick Creek
Located approximately 0.22 Miles North of SR 135
Section 36, T-15-N, R-3-E, Perry Township, Marion County, Indiana

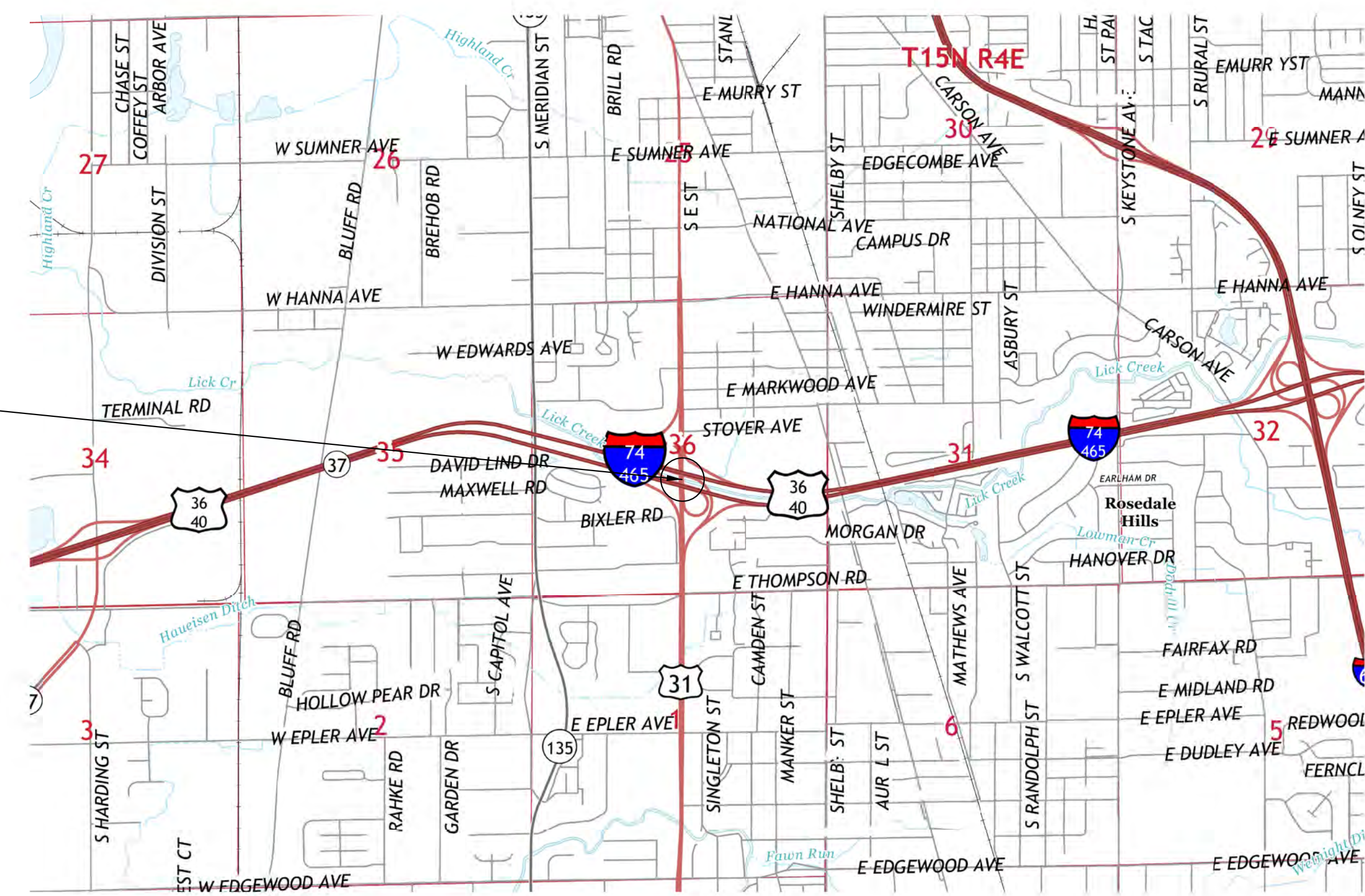
Kin Project Information		
DES. NUMBER	DESCRIPTION	TYPE
1900748 & 1900749	I-465 EB & WB Over Lick Creek	Bridge
1900757	Madison Ave. Over I-465 & Lick Creek	Bridge
1901390	I-465 Over McFarland Ditch	Small Structure
1900750	Mooresville Road Bypass over I-465	Bridge
1900758	Carson Ave. Over I-465 & Lick Creek	Bridge
1802075	Added Travel Lanes	Road
1901612	CV I465-049-00.27L	Small Structure
1901612	CV I465-049-00.30	Small Structure
1901612	CV I465-049-01.47	Small Structure
1901612	CV I465-049-01.90	Small Structure
1901612	CV I465-049-01.97	Small Structure
1901612	CV I465-049-02.05	Small Structure
1901612	CV I465-049-08.45	Small Structure
1802105	Project A	Road
1802106	Project B	Road
1802107	Project C	Road
1900769	Traffic: Signing, Markings, Lighting, ITS	Traffic



LATITUDE: 39° 41' 57" N LONGITUDE: 86° 08' 56" W

BRIDGE LENGTH: 0.00 MI.
ROADWAY LENGTH: See Road Plans MI.
TOTAL LENGTH: See Road Plans MI.
MAX. GRADE: See Road Plans %

Structure 031-49-04448C
US 31 Over I-465
423+73.24 Line "ZZ_Combined"



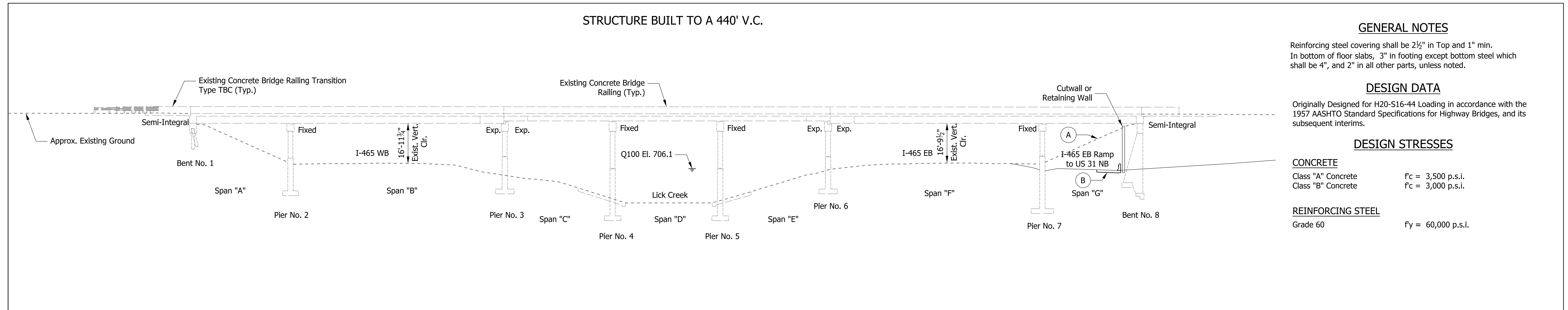
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

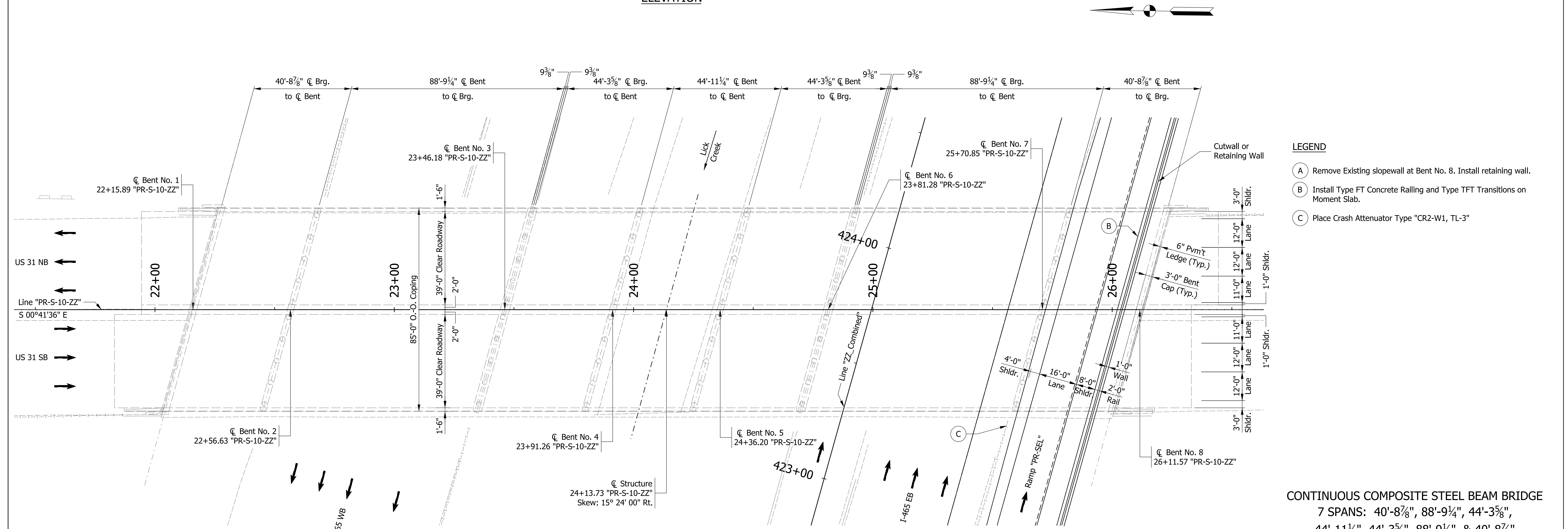
PLANS PREPARED BY: PARSONS 317-616-1000 PHONE NUMBER
CERTIFIED BY: DATE
APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
031-49-04448 C	
DESIGNATION	
1900744	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 3
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B002_SHT_Title.dgn
05-JUL-2019



ELEVATION



PLAN

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in Top and 1" min. In bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

DESIGN DATA

Originally Designed for H20-S16-44 Loading in accordance with the 1957 AASHTO Standard Specifications for Highway Bridges, and its subsequent interims.

DESIGN STRESSES

CONCRETE
 Class "A" Concrete $f_c = 3,500$ p.s.i.
 Class "B" Concrete $f_c = 3,000$ p.s.i.

REINFORCING STEEL
 Grade 60 $f_y = 60,000$ p.s.i.

LEGEND

- (A) Remove Existing slopewall at Bent No. 8. Install retaining wall.
- (B) Install Type FT Concrete Railing and Type TFT Transitions on Moment Slab.
- (C) Place Crash Attenuator Type "CR2-W1, TL-3"

CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
 7 SPANS: 40'-8 7/8", 88'-9 1/4", 44'-3 5/8",
 44'-11 1/4", 44'-3 5/8", 88'-9 1/4", & 40'-8 7/8"
 2 @ 39'-0" CLEAR ROADWAY; SKEW: 15° 24' 00" RT.
 US 31 OVER I-465 AND LICK CREEK
 MARION COUNTY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: KCW	DRAWN: JEW		VERTICAL SCALE	DESIGNATION
CHECKED: KRM	CHECKED: KRM		GENERAL PLAN	1"=20'-0"	031-49-04448 C
				1"=20'-0"	1900744
				SURVEY BOOK	SHEETS
				ELECTRONIC	3 of 3
				CONTRACT	PROJECT
				R-41536	1802075

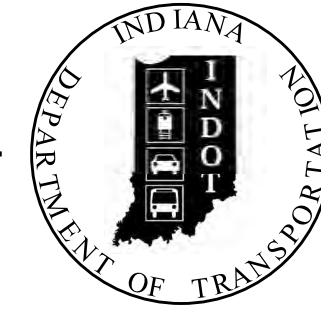
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 05-JUL-2019

PROJECT 1802075	DESIGNATION 1900757
CONTRACT R-41536	BRIDGE FILE 1465(431)-49-10517

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I465(431)-49-10517	Continuous Composite Steel Plate Girder Bridge	3 Spans: 105'-0", 115'-0", & 105'-0" Skew: 03°07'00" Lt.	I-465 & Lick Creek	25+50.95 Line "PR-S-11-Z"

Kin Project Information		
DES. NUMBER	DESCRIPTION	TYPE
1900744	US 31 Over I-465	Bridge
1900758	Carson Ave. Over I-465 & Lick Creek	Bridge
1901390	I-465 Over McFarland Ditch	Small Structure
1900748 & 1900749	I-465 EB & WB Over Lick Creek	Bridge
1900750	Mooreville Road Bypass Over I-465	Bridge
1802075	Added Travel Lanes	Road
1901612	CV I465-049-00.27L	Small Structure
1901612	CV I465-049-00.30	Small Structure
1901612	CV I465-049-01.47	Small Structure
1901612	CV I465-049-01.90	Small Structure
1901612	CV I465-049-01.97	Small Structure
1901612	CV I465-049-02.05	Small Structure
1901612	CV I465-049-08.45	Small Structure
1802105	Project A	Road
1802106	Project B	Road
1802107	Project C	Road
1900769	Traffic: Signing, Markings, Lighting, ITS	Road

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

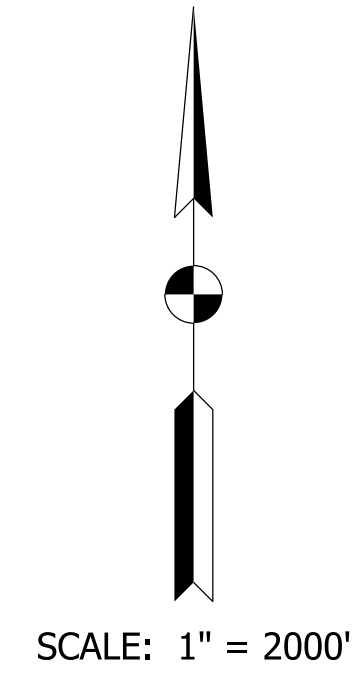
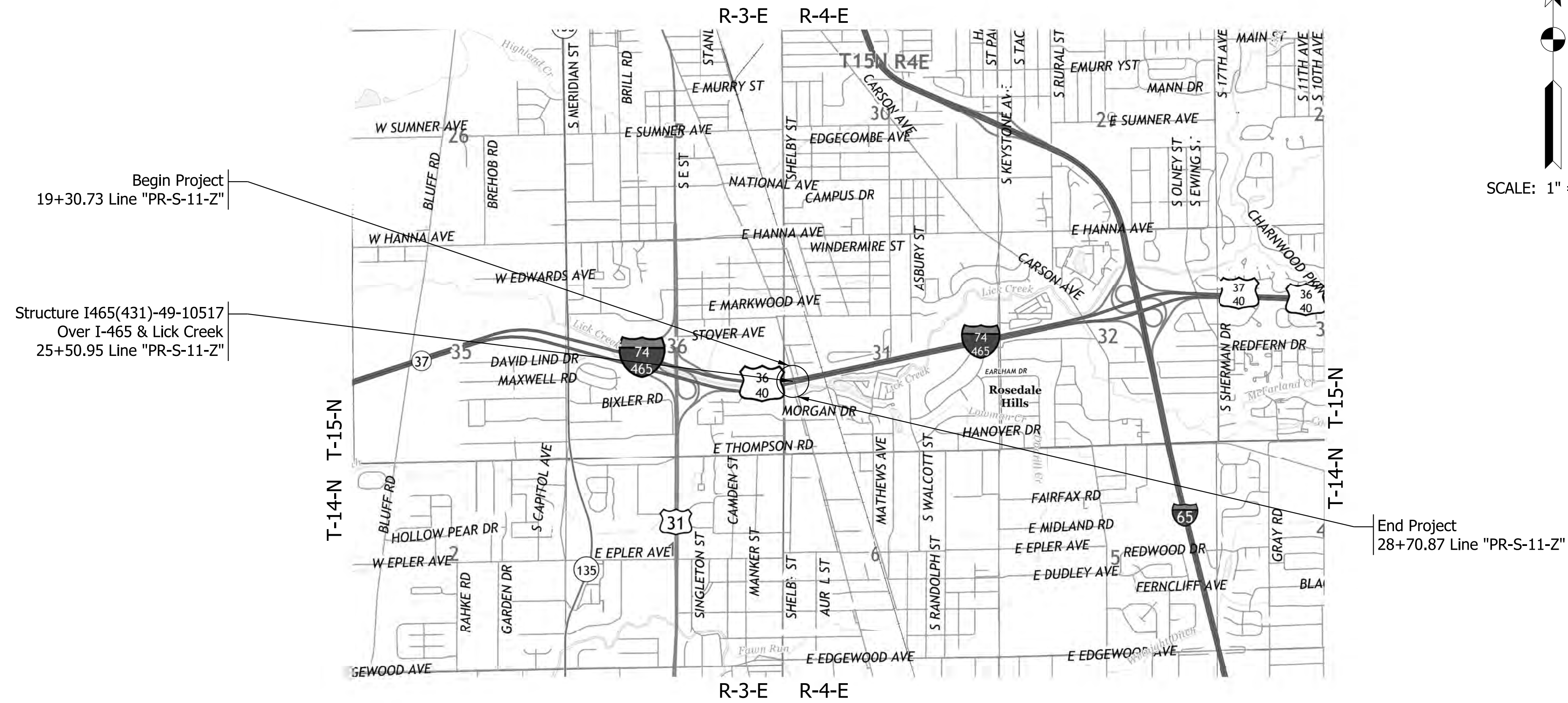
FOR SPANS OVER 20 FEET

ROUTE: MADISON AVE. AT: RP 1+65

PROJECT NO. 1802075 P.E.
R/W
1802075 CONST.

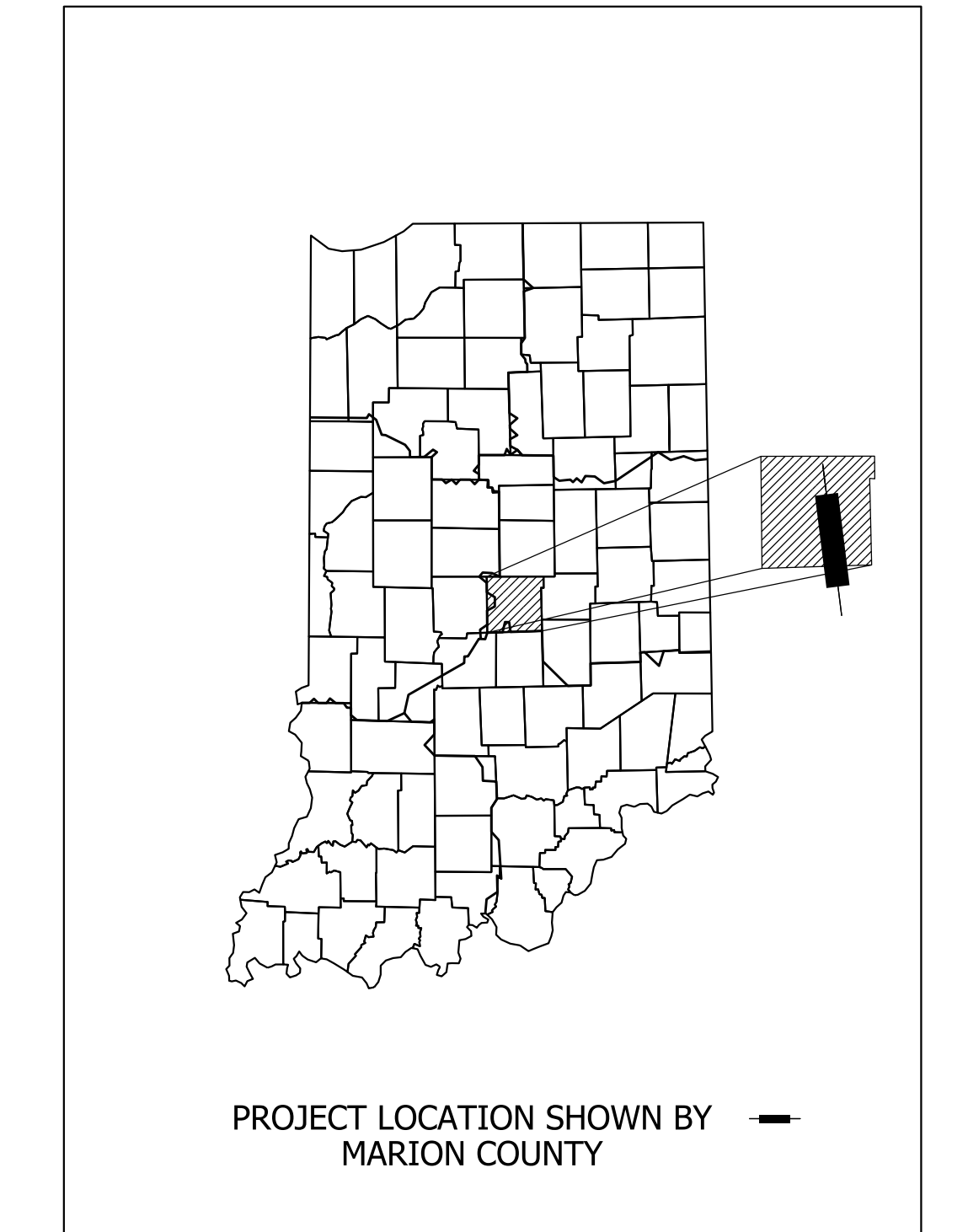
NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

Bridge Replacement on Madison Avenue over I-465
Located 0.57 Miles East of US 31
Section 31, T-15-N, R-4-E, Perry Township, Marion County, Indiana



TRAFFIC DATA		
A.A.D.T. (2025)		19,745 V.P.D.
A.A.D.T. (2045)		26,157 V.P.D.
D.H.V (2045)		2,749 V.P.H.
DIRECTIONAL DISTRIBUTION		50% NB / 50% SB
TRUCKS		1.96% A.A.D.T. 1.39% D.H.V.

DESIGN DATA	
DESIGN SPEED	40 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 39° 41' 54" N LONGITUDE: 86° 08' 18" W

BRIDGE LENGTH:	0.062 MI.
ROADWAY LENGTH:	0.116 MI.
TOTAL LENGTH:	0.178 MI.
MAX. GRADE:	4.15 %

HUC 051202011203

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

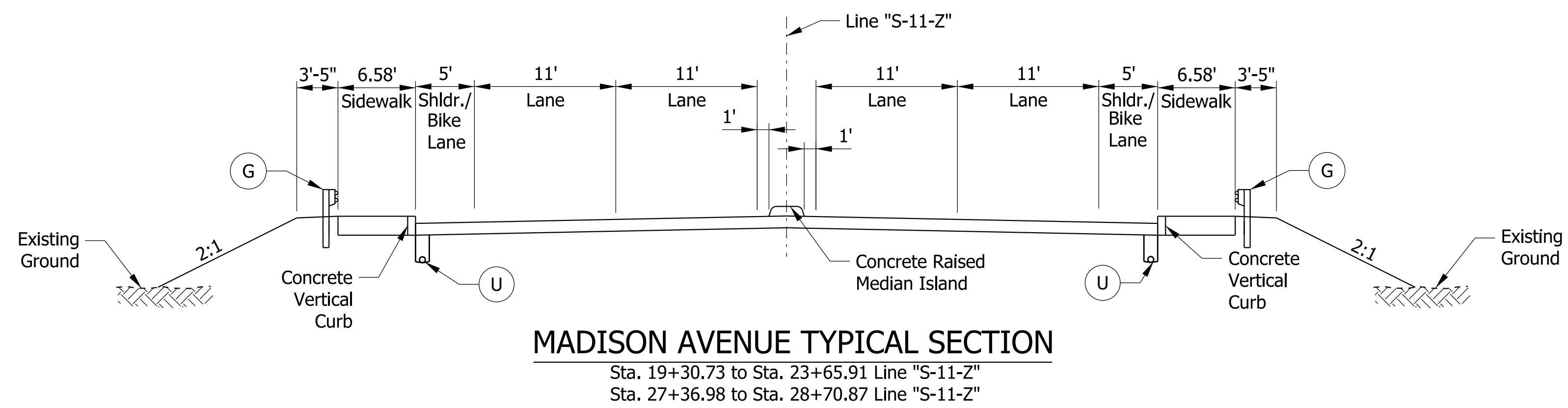
PARSONS

101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

IP_PWP:dms31258\I-465_Reconfigure_B004_SHT_Title.dgn
15-JUL-2019

PLANS PREPARED BY:	PARSONS	317-616-1000 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
1465(431)-49-10517	
DESIGNATION	
1900757	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 13
CONTRACT	PROJECT
R-41536	1802075



MADISON AVENUE TYPICAL SECTION
 Sta. 19+30.73 to Sta. 23+65.91 Line "S-11-Z"
 Sta. 27+36.98 to Sta. 28+70.87 Line "S-11-Z"

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- (A1) TBD
- (A2) TBD
- (A3) TBD
- (A4) TBD

- (G) Guardrail, MGS W-Beam, 6'-3" Spacing
- (N) Compacted Aggregate, No. 53
- (U) Underdrain
- (2) Concrete Median Barrier, 45"

- (27) Seed Mixture, U

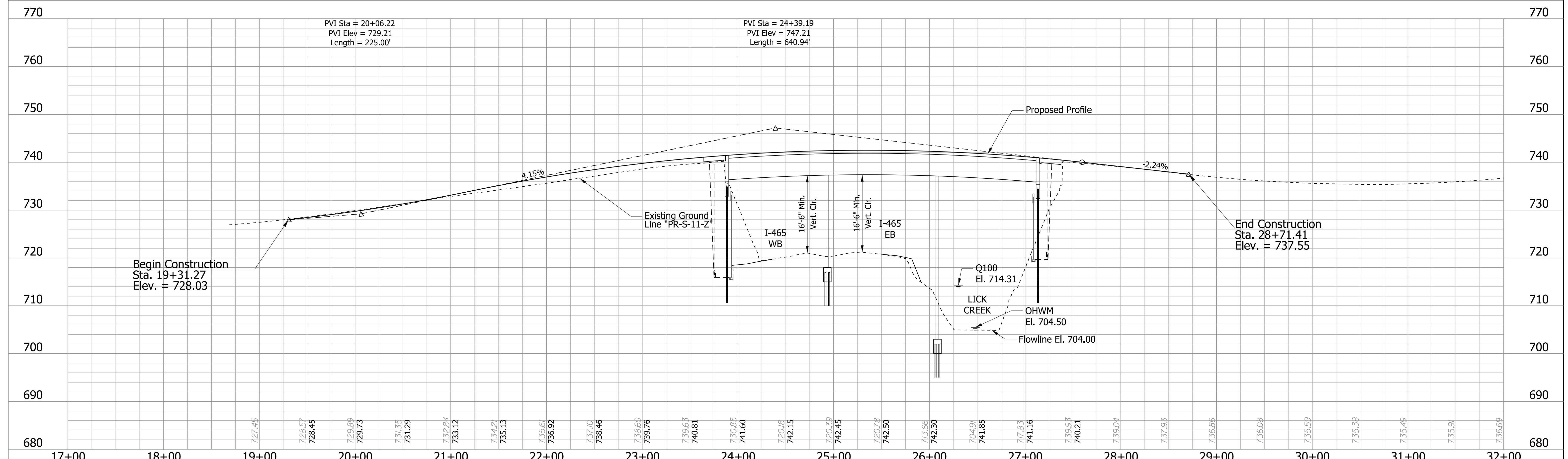
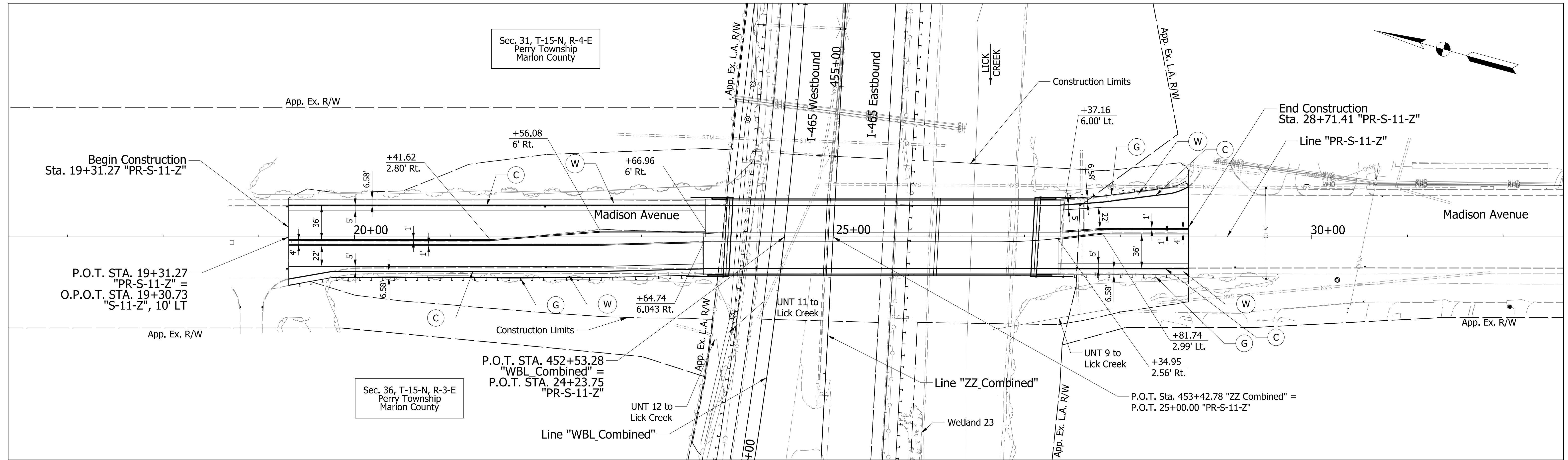
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CWB _____	DRAWN: _____ DH _____	
CHECKED: _____ JTL _____	CHECKED: _____ JTL _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'	I465(431)-49-10517
VERTICAL SCALE	DESIGNATION
N/A	1900757
SURVEY BOOK	SHEETS
N/A	3 of 13
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31266\1465_Reconfiguration_Typ_05.dgn



PARSONS
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- (2) Concrete Median Barrier, 45"
- (G) Guardrail, MGS, W-Beam, 6'-3" Spacing
- (MH) Manhole with Open Grate
- (W) Sidewalk
- (C) Concrete Vertical Curb

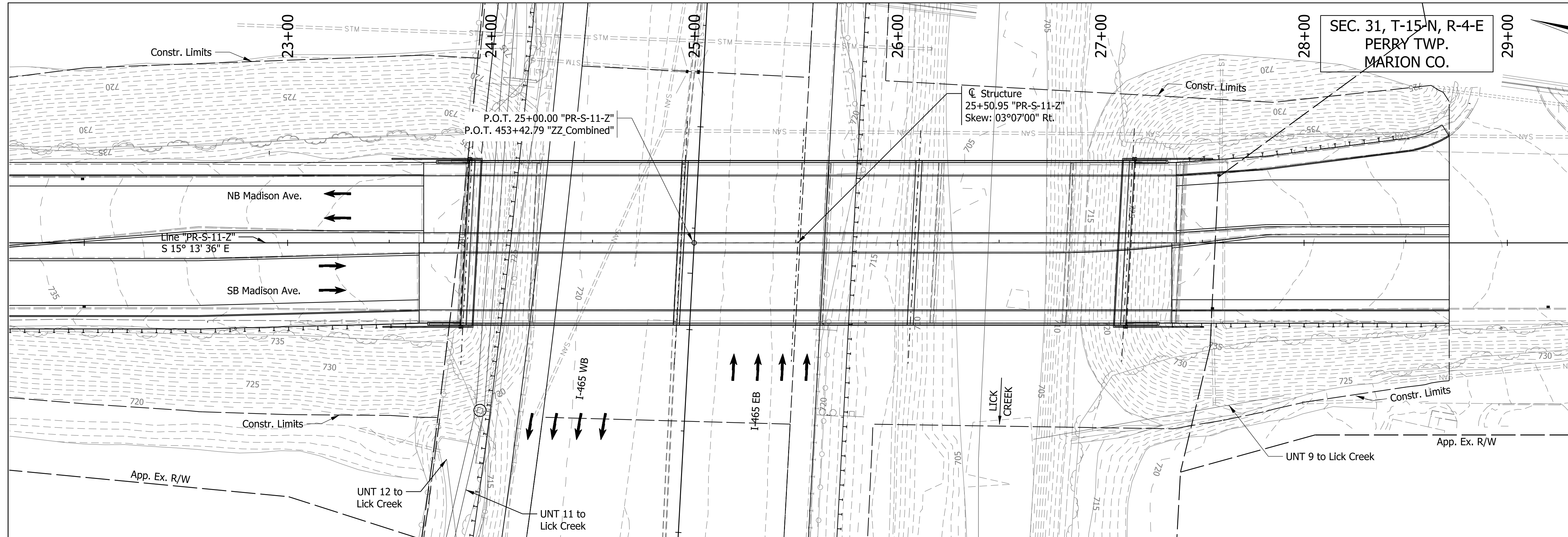
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAC	DRAWN: DH	
CHECKED: CWB	CHECKED: CWB	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEET
LINE "PR-S-11-Z"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 1465(431)-49-10517
VERTICAL SCALE 1" = 10'	DESIGNATION 1900757
SURVEY BOOK N/A	SHEETS 4 of 13
CONTRACT R-41536	PROJECT 1802075

IP_PWP:dms31266\I-465_Reconfigure_Plan_14.dgn



Note to Reviewer: Hydraulic Data is forthcoming.

HYDRAULIC DATA

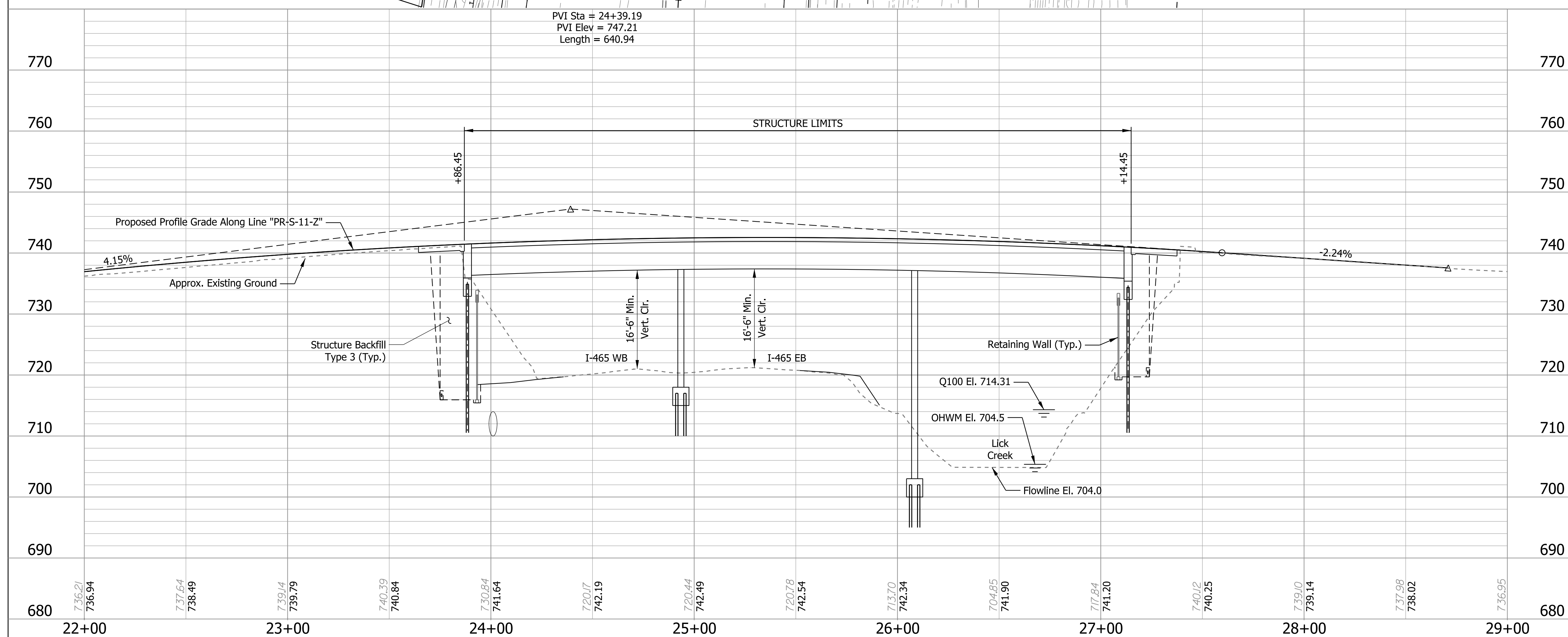
Waterway Opening Provided	= Sq. Ft.
Waterway Opening Existing	= Sq. Ft.
Drainage Area	= Sq. Mi.
Design Discharge (Q100)	= Cfs.
Velocity (Q100)	= Ft./Sec.
Q100 Elev.	= Ft.
Estimated Scour Elev.	= Ft.
Backwater (Q100)	= Ft.
Existing Backwater	= Ft.
Low Structure Elev.	= Ft.
Existing Low Structure Elev.	= Ft.

EXISTING STRUCTURE

The existing structure (I465)431-49-04445B is a steel beam bridge built in 1959 with 6 spans: 35'-6", 71'-1 1/2", 70'-9", 54'-0", 65'-0", and 54'-0" with a 27'-0" min. clear roadway reinforced concrete deck. Existing structure to be removed.

EARTHWORK TABULATION

See roadway plans for earthwork information.



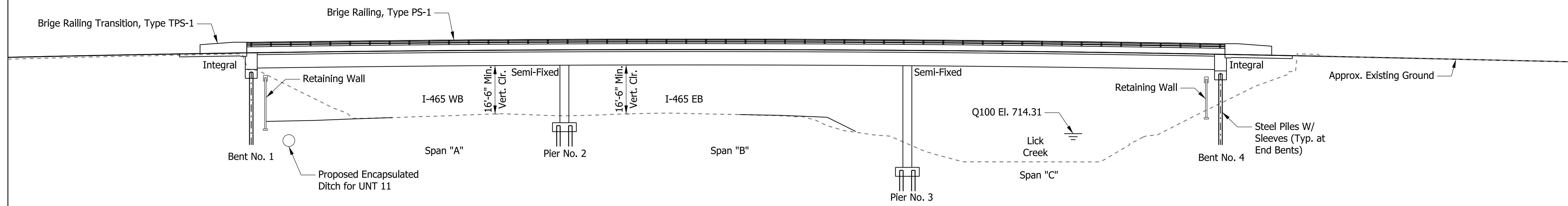
NOTES:
For R/W and Additional information see Roadway Plan & Profile sheets.
For Utility Contacts see Index Sheet No.2.

CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
3 SPANS: 105'-0", 115'-0", & 105'-0"
2 @ 28'-0" CLEAR ROADWAYS; SKEW: 03° 07' 00" RT.
MADISON AVE. OVER I-465
MARION COUNTY

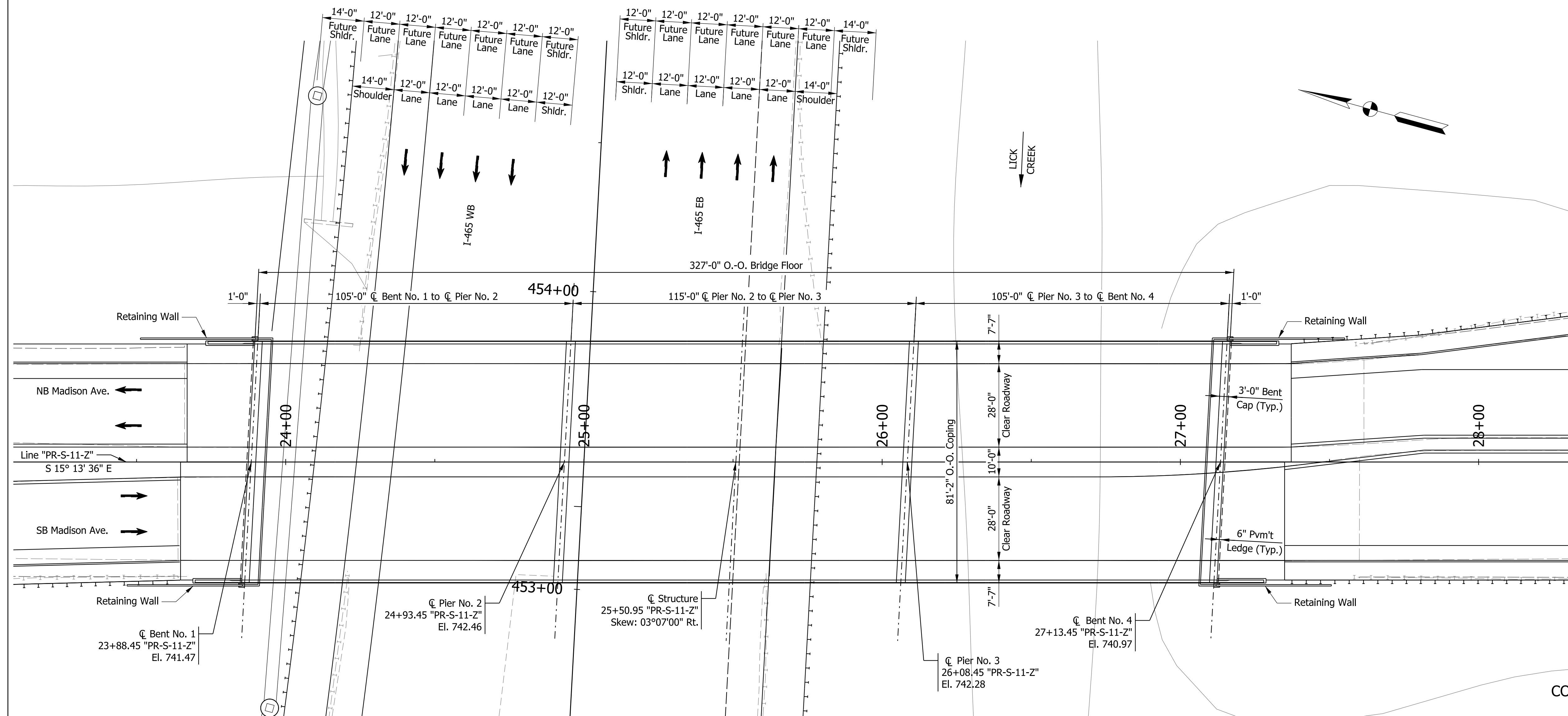
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: KCW	DRAWN: JEW		1"=30'-0"	1465(431)-49-10517
CHECKED: KRM	CHECKED: KRM		LAYOUT	VERTICAL SCALE	DESIGNATION
				1"=10'-0"	1900757
				SURVEY BOOK	SHEETS
				ELECTRONIC	5 of 13
				CONTRACT	PROJECT
				cont	1802075

IP_PWP:dms31258\I-465_Reconfigure_B004_SHT_Layout.dgn
15-JUL-2019

STRUCTURE TO BE BUILT ON A 640.94' V.C.



ELEVATION



PLAN

GENERAL NOTES

Reinforcing steel covering shall be 2½" in Top and 1" min. In bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

All New Reinforcement Shall be Epoxy Coated Unless Otherwise Noted.

Surface Seal shall be Applied to the Approach Slabs, All Exposed Surfaces of New Concrete Railings, Sidewalks, Top of Bridge Deck, Deck Copings, and Underside of Bridge Deck to Exterior Beams.

DESIGN DATA

Superstructure & Substructure Designed for HL-93 Loading in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2018, and its subsequent interims.

DEAD LOAD

Actual weight plus 35 lb/ft. of future wearing surface and 15 lb/ft. for SIP Metal deck forms.

FLOOR SLAB

Designed with a 7½" structural depth, and a ½" integral wearing surface.

DESIGN STRESSES

CONCRETE

Class "A" Concrete $f_c = 3,500$ p.s.i.
Class "B" Concrete $f_c = 3,000$ p.s.i.
Class "C" Concrete $f_c = 4,000$ p.s.i.

REINFORCING STEEL

Grade 60 $f_y = 60,000$ p.s.i.

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lb/Sft for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD

Designed for 20 lb/Sft extending 2-ft past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

FINISHING MACHINE LOAD

4500 lb distributed over 10-ft along the coping.

WIND LOAD

Structure Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

SEISMIC DESIGN DATA

Seismic Performance Zone TBD
Acceleration Coefficient (S_{D1}) TBD
Seismic Soil Profile Type TBD

CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
3 SPANS: 105'-0", 115'-0", & 105'-0"
2 @ 28'-0" CLEAR ROADWAYS; SKEW: 03° 07' 00" RT.
MADISON AVE. OVER I-465
MARION COUNTY

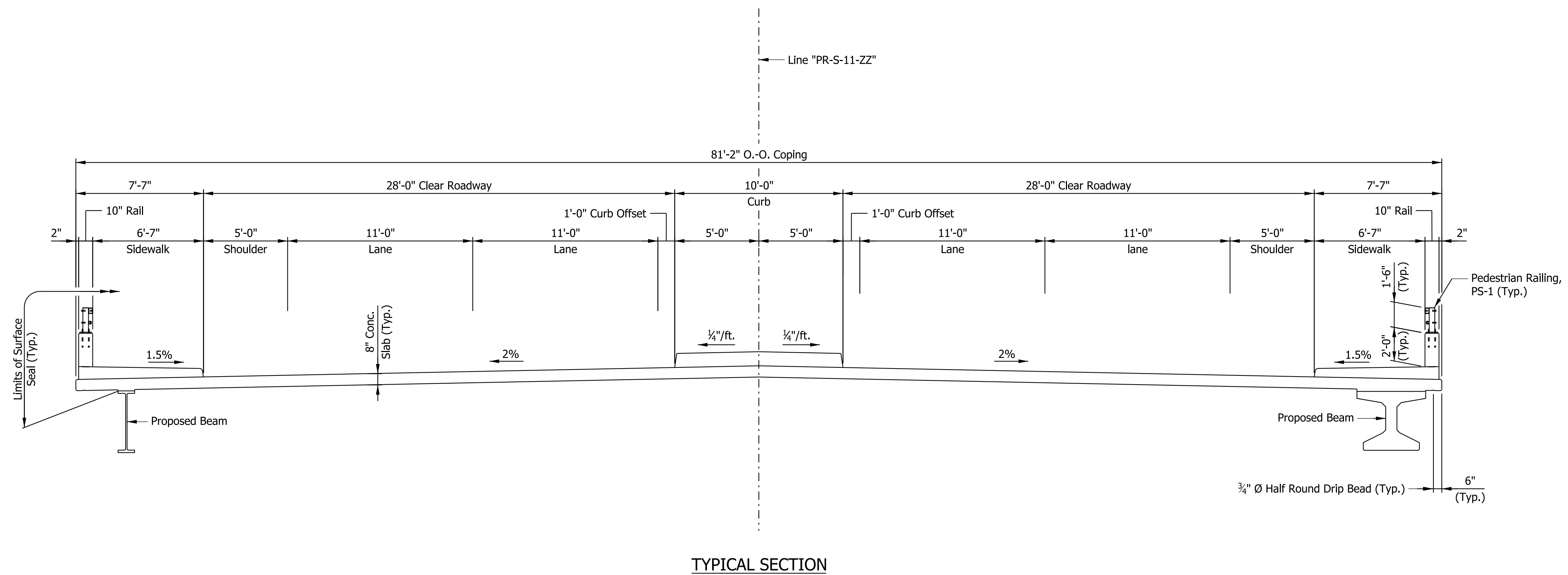
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: KCW	DRAWN: JEW	
CHECKED: KRM	CHECKED: KRM	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1"=20'-0"	1465(431)-49-10517
VERTICAL SCALE	DESIGNATION
1"=20'-0"	1900757
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 13
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B004_SHT_General Plan.01.dgn
15-JUL-2019



CONTINUOUS COMPOSITE STEEL PLATE GIRDER BRIDGE
 3 SPANS: 105'-0", 115'-0", & 105'-0"
 2 @ 28'-0" CLEAR ROADWAYS; SKEW: 03° 07' 00" RT.
 MADISON AVE. OVER I-465
 MARION COUNTY

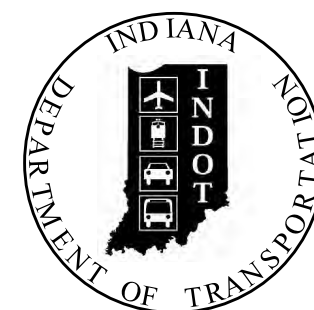
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			1/4" = 1'-0"	1465(431)-49-10517
DESIGNED: _____ KCW _____ DRAWN: _____ JEK _____	GENERAL PLAN		VERTICAL SCALE	DESIGNATION
			1/4" = 1'-0"	1900757
CHECKED: _____ KRM _____ CHECKED: _____ KRM _____			SURVEY BOOK	SHEETS
			ELECTRONIC	7 of 13
			CONTRACT	PROJECT
			R-41536	1802075

PROJECT 1802075	DESIGNATION 1900750
CONTRACT R-41536	BRIDGE FILE I465-157-10516

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I465-157-10516	Composite Prestressed Concrete Bulb-Tee Beam Bridge	2 Spans: 106'-3", 94'-3" Skew: Square	I-465	22+67.10 Line "S-1-6"

Kin Project Information		
DES. NUMBER	DESCRIPTION	TYPE
1900744	US 31 Over I-465	Bridge
1900757	Madison Ave. Over I-465 & Lick Creek	Bridge
1901390	I-465 Over McFarland Ditch	Small Structure
1900748 & 1900749	I-465 EB & WB Over Lick Creek	Bridge
1900758	Carson Ave. Over I-465 & Lick Creek	Bridge
1802075	Added Travel Lanes	Road
1901612	CV I465-049-00.27L	Small Structure
1901612	CV I465-049-00.30	Small Structure
1901612	CV I465-049-01.47	Small Structure
1901612	CV I465-049-01.90	Small Structure
1901612	CV I465-049-01.97	Small Structure
1901612	CV I465-049-02.05	Small Structure
1901612	CV I465-049-08.45	Small Structure
1802105	Project A	Road
1802106	Project B	Road
1802107	Project C	Road
1900769	Traffic: Signing, Markings, Lighting, ITS	Road

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: MOORESVILLE ROAD AT: RP 8+12

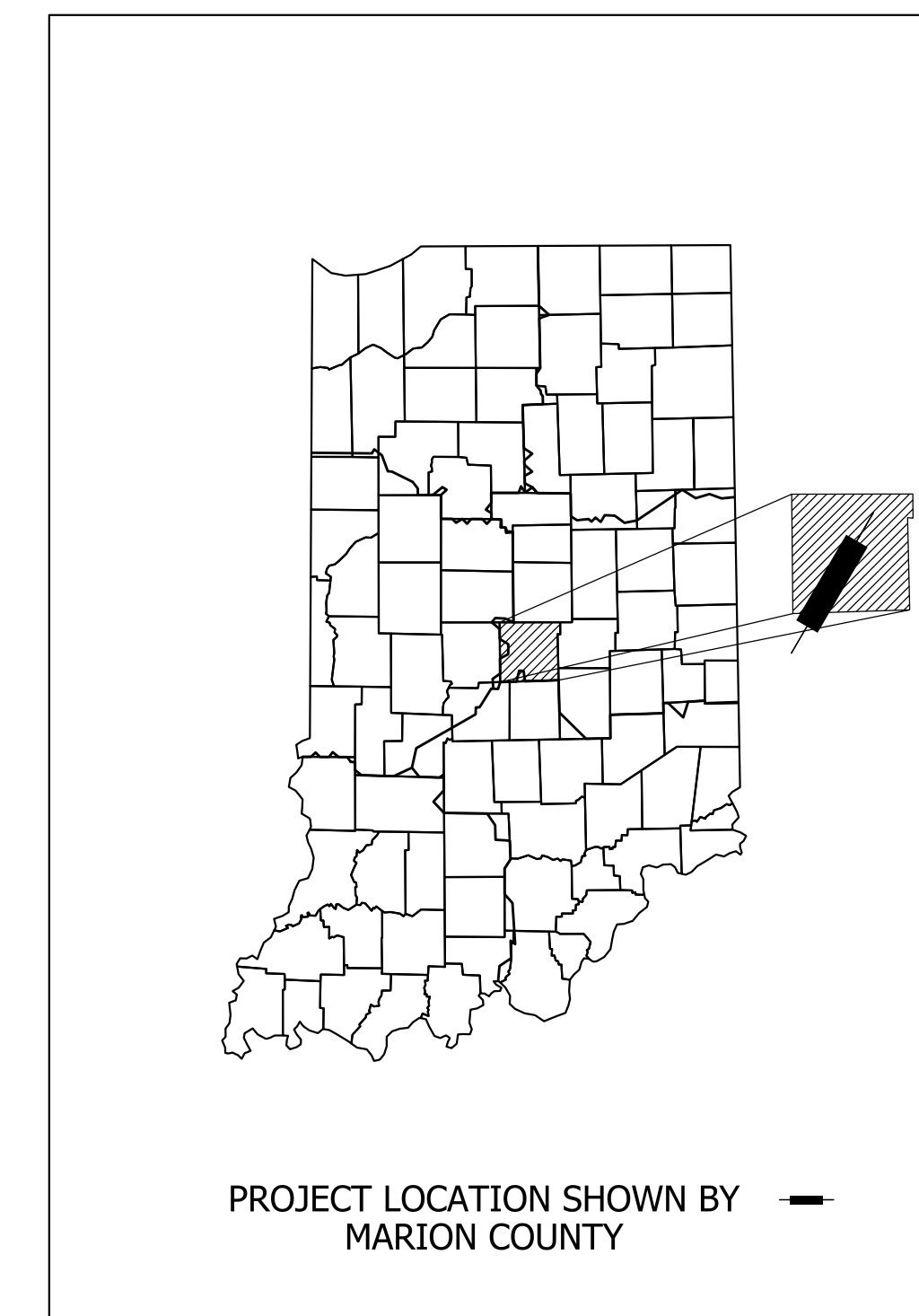
PROJECT NO. 1802075 P.E. R/W
1802075 CONST.

NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

Bridge Replacement on Mooresville Road over I-465
Located 0.34 Miles East of SR 67
Section 36, T-15-N, R-2-E, Decatur Township, Marion County, Indiana

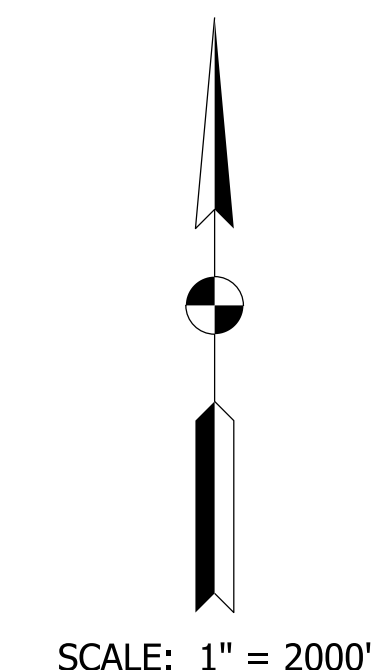
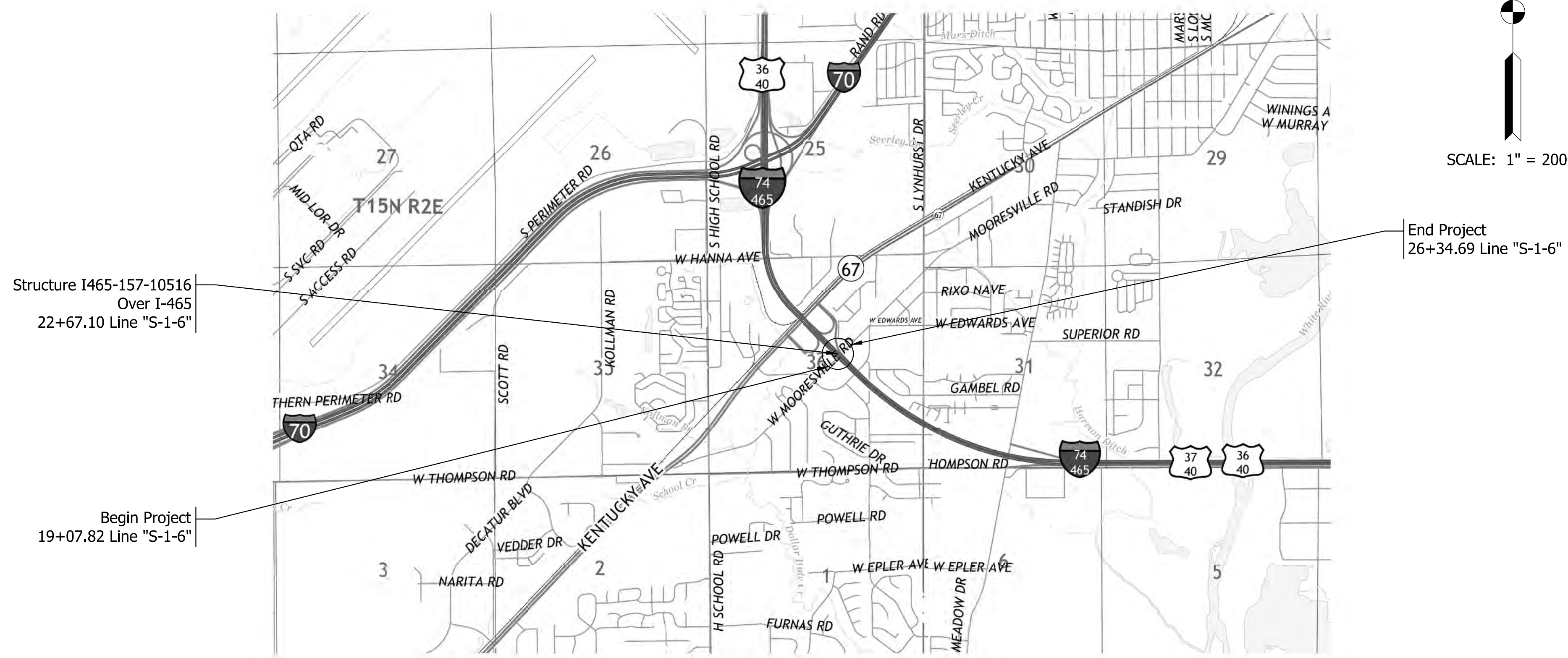
TRAFFIC DATA		
A.A.D.T. (2025)		3,811 V.P.D.
A.A.D.T. (2045)		3,878 V.P.D.
D.H.V (2045)		503 V.P.H.
DIRECTIONAL DISTRIBUTION		51.49% WB / 48.51% EB
TRUCKS		1.85% A.A.D.T. 3.12% D.H.V.

DESIGN DATA		
DESIGN SPEED		30 M.P.H.
PROJECT DESIGN CRITERIA		3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		Major Collector
RURAL/URBAN		Urban
TERRAIN		Level
ACCESS CONTROL		None



LATITUDE: 39° 41' 54" N LONGITUDE: 86° 15' 23" W

BRIDGE LENGTH:	0.047 MI.
ROADWAY LENGTH:	0.091 MI.
TOTAL LENGTH:	0.138 MI.
MAX. GRADE:	3.40 %



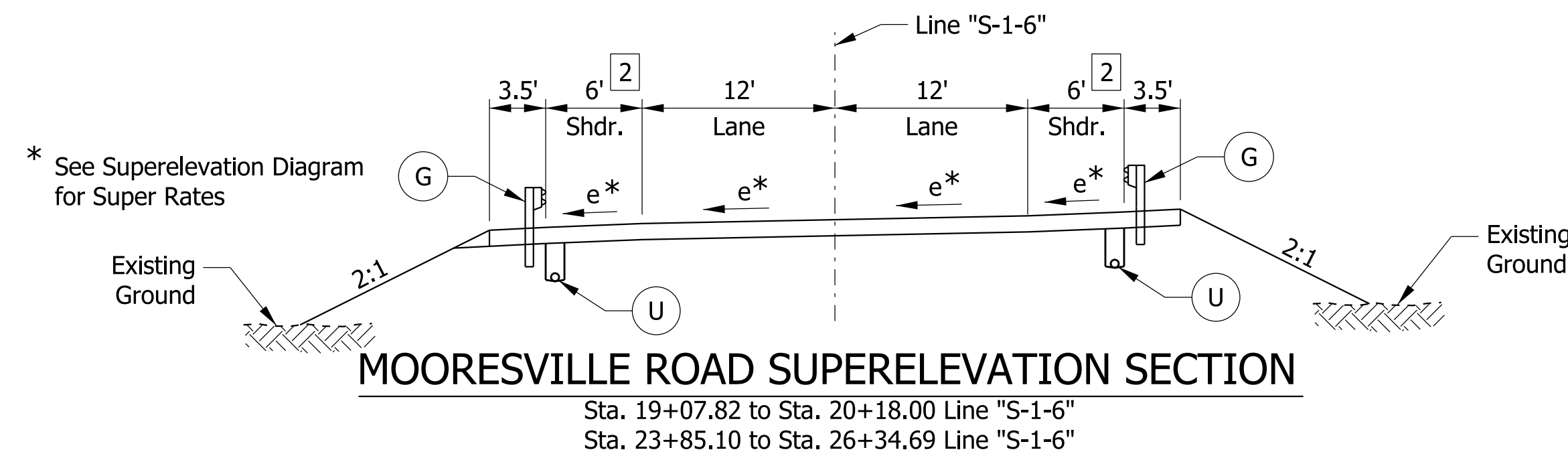
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

PLANS PREPARED BY: PARSONS	317-616-1000 PHONE NUMBER
CERTIFIED BY:	DATE
APPROVED FOR LETTING:	DATE

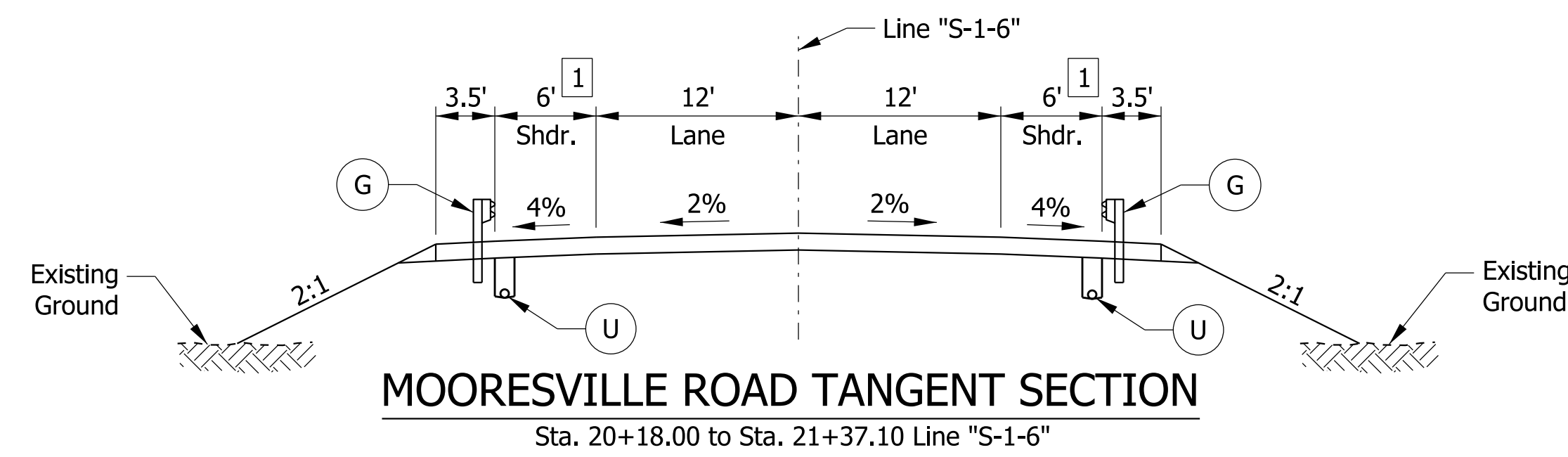
BRIDGE FILE	
I465-157-10516	
DESIGNATION	
1900750	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 11
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B001_SHT_Title.dgn
11-JUL-2019



- 1 Shoulder Varies From 6' to 4'
Sta. 21+20.35 to Sta. 21+40.35
- 2 Shoulder Varies From 4' to 6'
Sta. 23+88.85 to Sta. 24+08.85

BRIDGE PAVING EXCEPTION
 Sta. 21+37.10 to Sta. 23+85.10 Line "S-1-6"



PARSONS
 101 W. Ohio St., Suite 2121
 Indianapolis, IN 46204
 Bus (317) 616-1000
 Fax (317) 616-1033

- A1 TBD
- A2 TBD
- A3 TBD
- A4 TBD

- G Guardrail, MGS W-Beam, 6'-3" Spacing
- N Compacted Aggregate, No. 53
- U Underdrain
- 2 Concrete Median Barrier, 45"

- 27 Seed Mixture, U

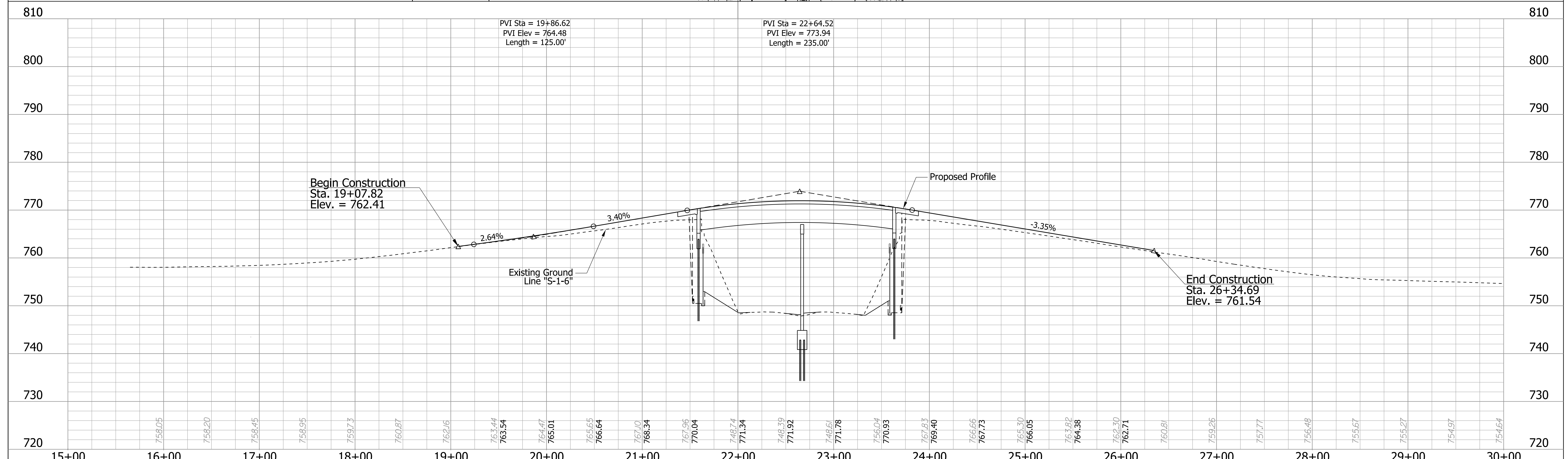
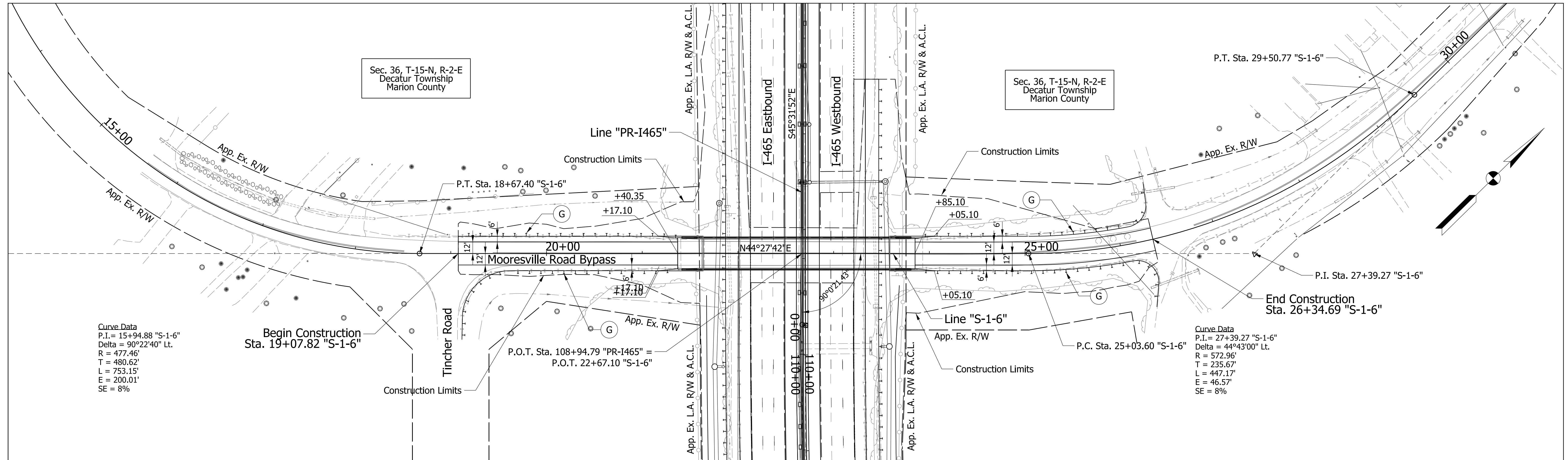
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CWB	DRAWN: DH	
CHECKED: JTL	CHECKED: JTL	

INDIANA
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

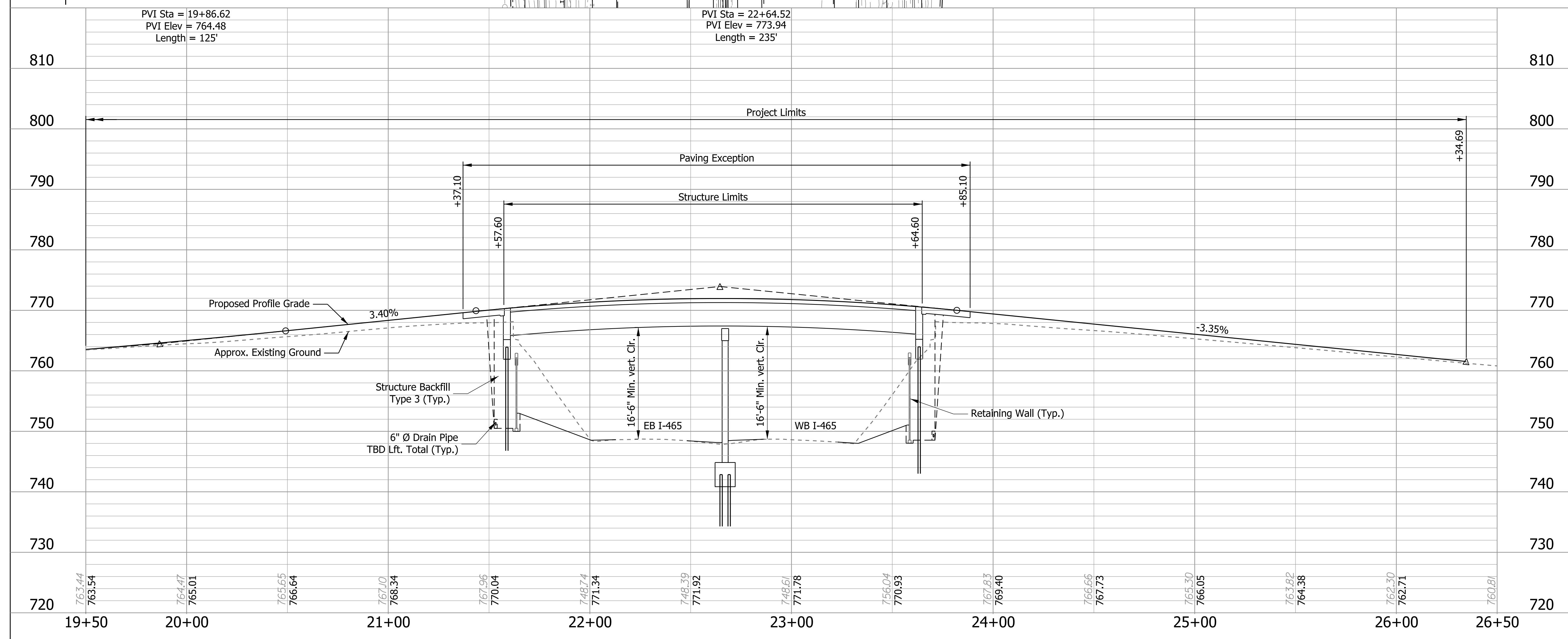
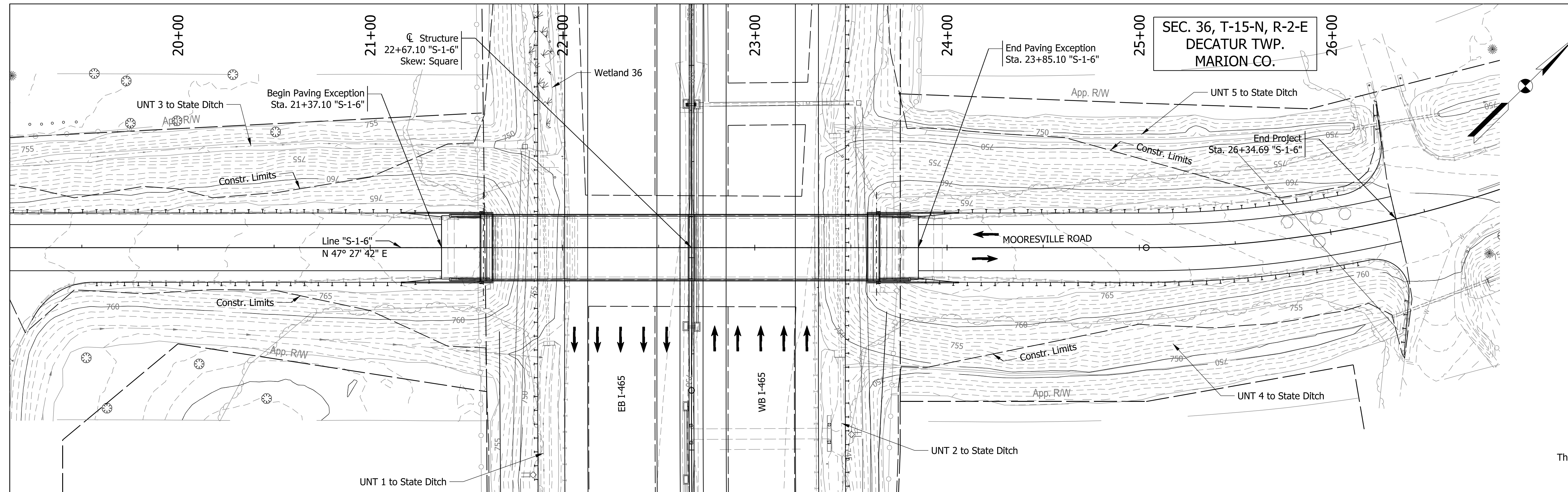
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'	
VERTICAL SCALE	DESIGNATION
N/A	1900750
SURVEY BOOK	SHEETS
N/A	3 of 11
CONTRACT	PROJECT
R-41536	1802075

IP_PWP:dms31266\1465_Reconfiguration_Typ_04.dgn



PARSONS 101 W. Ohio St., Suite 2121 Indianapolis, IN 46204 Bus (317) 616-1000 Fax (317) 616-1033	(2) Concrete Median Barrier, 45"	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: JAC DRAWN: DH CHECKED: CWB CHECKED: CWB	INDIANA DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE SHEET LINE "S-1-6"	HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
	(G) Guardrail, MGS, W-Beam, 6'-3" Spacing			VERTICAL SCALE 1" = 10'	DESIGNATION 1900750
	(MH) Manhole with Open Grate			SURVEY BOOK N/A	SHEETS 4 of 11
				CONTRACT R-41536	PROJECT 1802075

IP_PWP:dms31266\I-465_Reconfigure_Plan_13.dgn



EXISTING STRUCTURE
 The existing structure (1465-157-04721B) is a concrete girder bridge was built in 1960 with 4 spans: 38'-6", 65'-6", 65'-6" and 38'-6" with a 30'-6" min. clear roadway reinforced concrete deck. Existing structure to be removed.

EARTHWORK TABULATION
 See roadway plans for earthwork information.

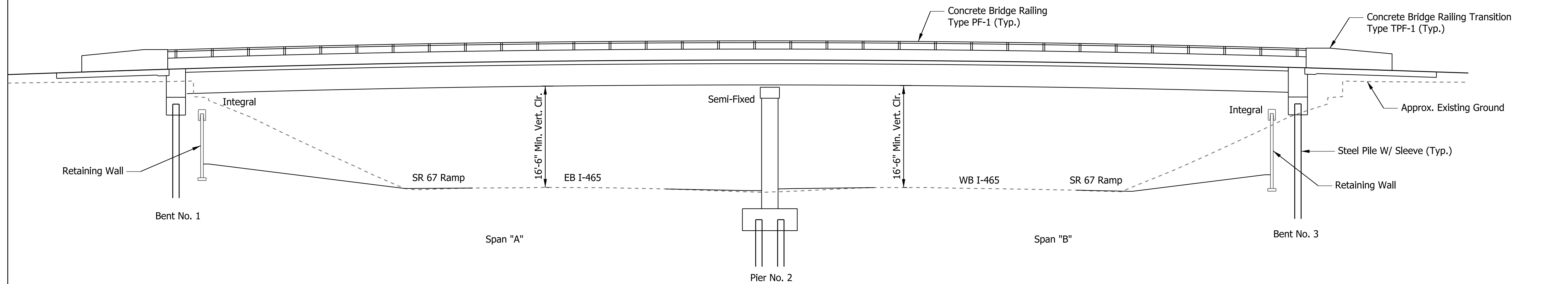
NOTES:
 For R/W and Additional information see Roadway Plan & Profile sheets.
 For Utility Contacts see Index Sheet No.2.

**COMPOSITE PRESTRESSED CONCRETE
 BULB-TEE BEAM BRIDGE
 2 SPANS: 108'-3" & 96'-3"
 32'-8" CLEAR ROADWAY; SKEW: SQUARE
 MOORESVILLE ROAD OVER I-465
 MARION COUNTY**

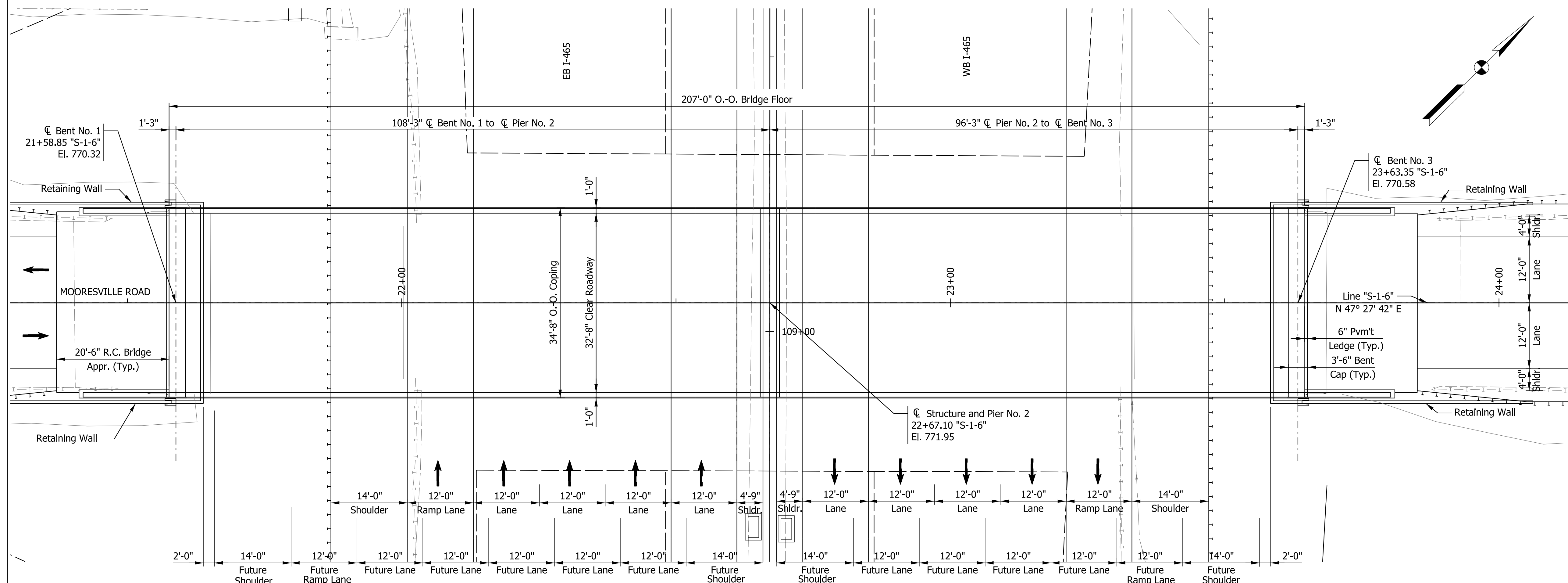
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
				1"=30'-0"	1465-157-10516
DESIGNED: KCW	DRAWN: JEW	LAYOUT		VERTICAL SCALE	DESIGNATION
				1"=10'-0"	1900750
CHECKED: KRM	CHECKED: KRM			SURVEY BOOK	SHEETS
				ELECTRONIC	5 of 11
				CONTRACT	PROJECT
				R-41536	1802075

IP_PWP:dms31258\I-465_Reconfigure_B001_SHT_Layout.dgn
 11-JUL-2019

STRUCTURE TO BE BUILT ON A 235' VERTICAL CURVE



ELEVATION



PLAN

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in Top and 1" min. In bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

All New Reinforcement Shall be Epoxy Coated Unless Otherwise Noted.

Surface Seal shall be Applied to the Approach Slabs, All Exposed Surfaces of New Concrete Railings, Sidewalks, Top of Bridge Deck, Deck Copings, and Underside of Bridge Deck to Exterior Beams.

DESIGN DATA

Superstructure & Substructure Designed for HL-93 Loading in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2018, and its subsequent interims.

DEAD LOAD

Actual weight plus 35 lb/ft² of future wearing surface and 15 lb/ft² for SIP Metal deck forms.

FLOOR SLAB

Designed with a 7 1/2" structural depth, and a 1/2" integral wearing surface.

DESIGN STRESSES

CONCRETE

Class "A" Concrete f_c = 3,500 p.s.i.
Class "B" Concrete f_c = 3,000 p.s.i.
Class "C" Concrete f_c = 4,000 p.s.i.

REINFORCING STEEL

Grade 60 f_y = 60,000 p.s.i.

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DECK FALSEWORK LOADS

Designed for 15 lb/ft² for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

CONSTRUCTION LIVE LOAD

Designed for 20 lb/ft² extending 2-ft past the edge of coping and 75 lb/ft² vertical force applied at a distance of 6 in. outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

FINISHING MACHINE LOAD

4500 lb distributed over 10-ft along the coping.

WIND LOAD

Structure Designed for horizontal wind loading in accordance with LRFD 3.8.1.

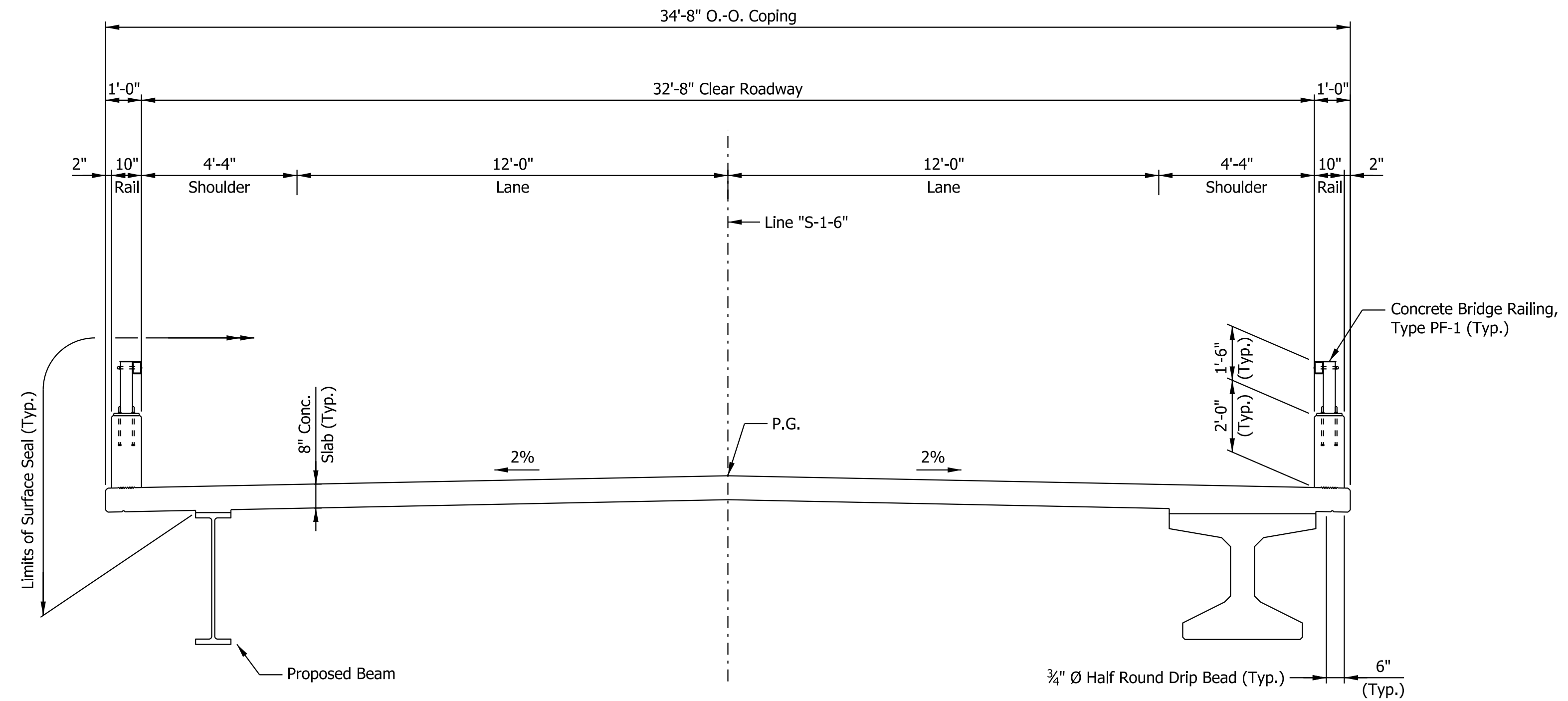
SEISMIC DESIGN DATA

Seismic Performance Zone TBD
Acceleration Coefficient (S_{p1}) TBD
Seismic Soil Profile Type TBD

COMPOSITE PRESTRESSED CONCRETE BULB-TEE BEAM BRIDGE
2 SPANS: 108'-3" & 96'-3"
32'-8" CLEAR ROADWAY; SKEW: SQUARE
MOORESVILLE ROAD OVER I-465
MARION COUNTY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	
			HORIZONTAL SCALE 3/32"=1'-0"	BRIDGE FILE I465-157-10516
DESIGNED: KCW	DRAWN: JEW	CHECKED: KRM	GENERAL PLAN	
			VERTICAL SCALE 3/32"=1'-0"	DESIGNATION 1900750
CHECKED: KRM	CHECKED: KRM	CHECKED: KRM	SHEETS	
			SURVEY BOOK	6 of 11
			PROJECT	
			R-41536	
			1802075	

IP_PWP:dms31258\I-465_Reconfigure_B001_SHT_General Plan.01.dgn
11-JUL-2019

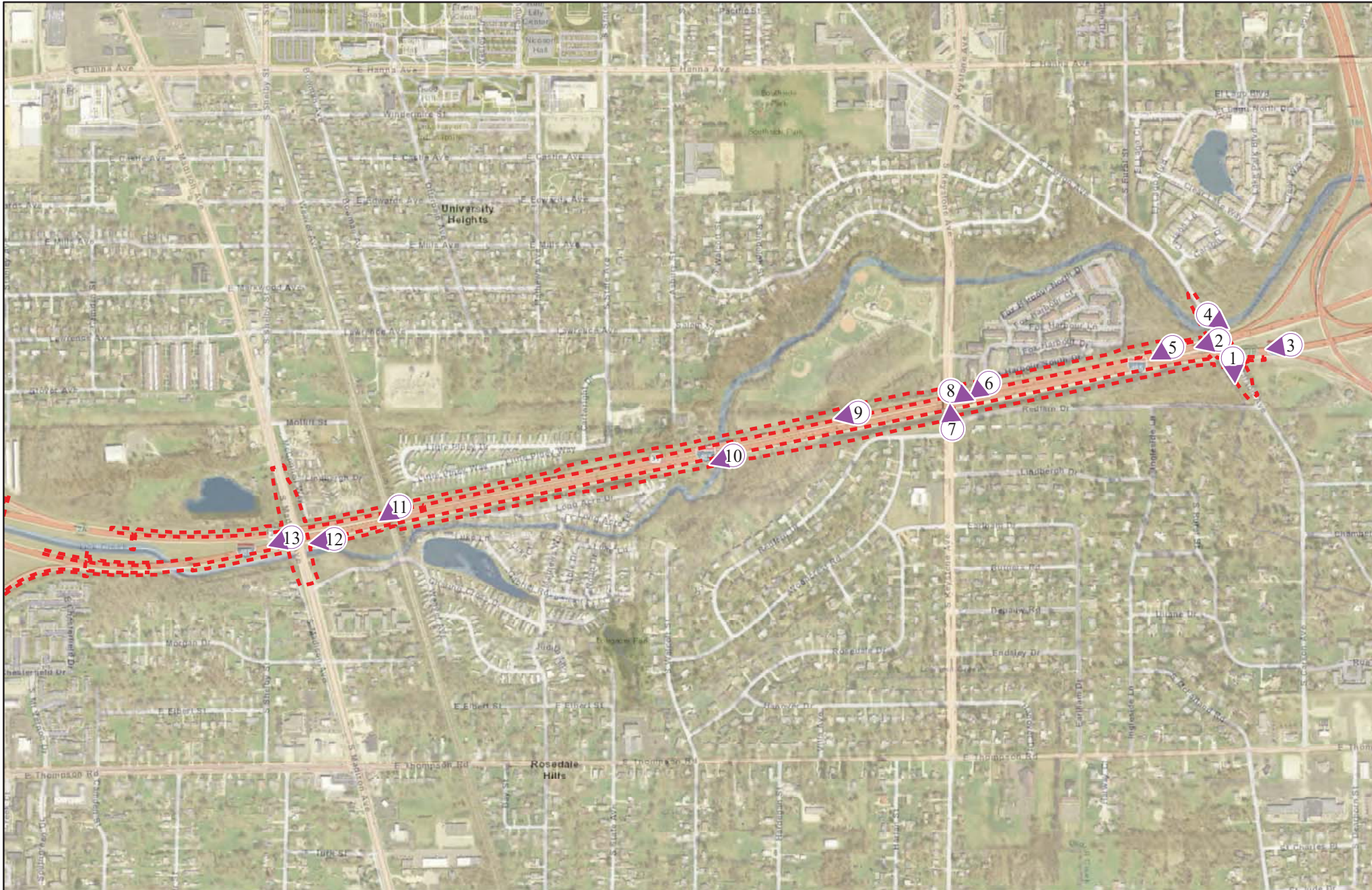


TYPICAL SECTION

COMPOSITE PRESTRESSED CONCRETE
 BULB-TEE BEAM BRIDGE
 2 SPANS: 108'-3" & 96'-3"
 32'-8" CLEAR ROADWAY; SKEW: SQUARE
 MOORESVILLE ROAD OVER I-465
 MARION COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			3/8" = 1'-0"	I465-157-10516
DESIGNED: _____ KCW _____	DRAWN: _____ JEW _____	GENERAL PLAN	VERTICAL SCALE	DESIGNATION
CHECKED: _____ KRM _____	CHECKED: _____ KRM _____		3/8" = 1'-0"	1900750
			SURVEY BOOK	SHEETS
			ELECTRONIC	7 of 11
			CONTRACT	PROJECT
			R-41536	1802075

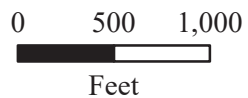
IP_PWP:dms31258\I-465_Reconfigure_B001_SHT_General Plan.02.dgn
 11-JUL-2019



 Construction Limits

 Photo Orientation

See Appendix B-2
for a map index.



Sources:
Non Orthophotography Data -
 Obtained from the State of Indiana Geographical
 Information Office Library
Orthophotography -
 Obtained from Indiana Map
 Framework Data (www.indianamap.org)

**I-465 Reconfiguration
 Marion County, Indiana
 Photo Orientation
 Sheet: 1 of 3**

Des. 1802075

Date: 9/26/2019



PARSONS



 Construction Limits

 Photo Orientation

See Appendix B-2
for a map index.



0 500 1,000
Feet

Sources:
Non Orthophotography Data -
Obtained from the State of Indiana Geographical
Information Office Library
Orthophotography -
Obtained from Indiana Map
Framework Data (www.indianamap.org)

**I-465 Reconfiguration
Marion County, Indiana
Photo Orientation
Sheet: 2 of 3**

Des. 1802075

Date: 9/26/2019



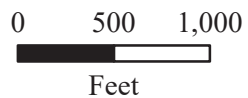
PARSONS



 Construction Limits

 Photo Orientation

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**I-465 Reconfiguration
 Marion County, Indiana
 Photo Orientation
 Sheet: 3 of 3**

Des. 1802075

Date: 9/26/2019



PARSONS



Photo 1 – View from Carson Avenue bridge over I-465 facing southeast toward Redfern Drive (5-22-19).



Photo 2 – View of I-465 from the Carson Avenue bridge facing west (5-9-19).



Photo 3 – View of roadside along eastbound I-465 facing west. Carson Avenue bridge is in the background (5-8-19).



Photo 4 – View of east side of Carson Avenue bridge over Lick Creek and I-465 facing southeast (5-9-19).



Photo 5 – View of roadside along westbound I-465 facing southwest (5-9-19).



Photo 6 – View of roadside and Keystone Avenue bridge along westbound I-465 facing southwest (5-9-19).



Photo 7 – View of Keystone Avenue bridge over I-465 facing north (5-22-19).



Photo 8 – View of I-465 from the Keystone Avenue bridge facing east (5-22-19).



Photo 9 – View of roadside along westbound I-465 west of Keystone Avenue facing west (5-10-19).



Photo 10 – View of roadside along eastbound I-465 over Lick Creek facing west (5-13-19).



Photo 11 – View of roadside along I-465 westbound and the Louisville & Indiana Railroad bridge facing southwest (5-14-19).



Photo 12 – View of roadside along I-465 eastbound and the Madison Avenue bridge facing west. Lick Creek is on the left (5-20-19).



Photo 13 – View of I-465 from Madison Avenue bridge facing west (5-14-19).



Photo 14 – View downstream of Lick Creek in the median of I-465 east of East Street facing northeast (5-14-19).



Photo 15 – View of the I-465 median, I-465 eastbound on-ramp, and Lick Creek from the East Street bridge facing northwest (5-15-19).



Photo 16 – View of roadside along westbound I-465 west of Mann Road overpass facing west (5-23-19).



Photo 17 – View of I-465 from the Mooresville Road Bypass bridge facing southeast (5-24-19).



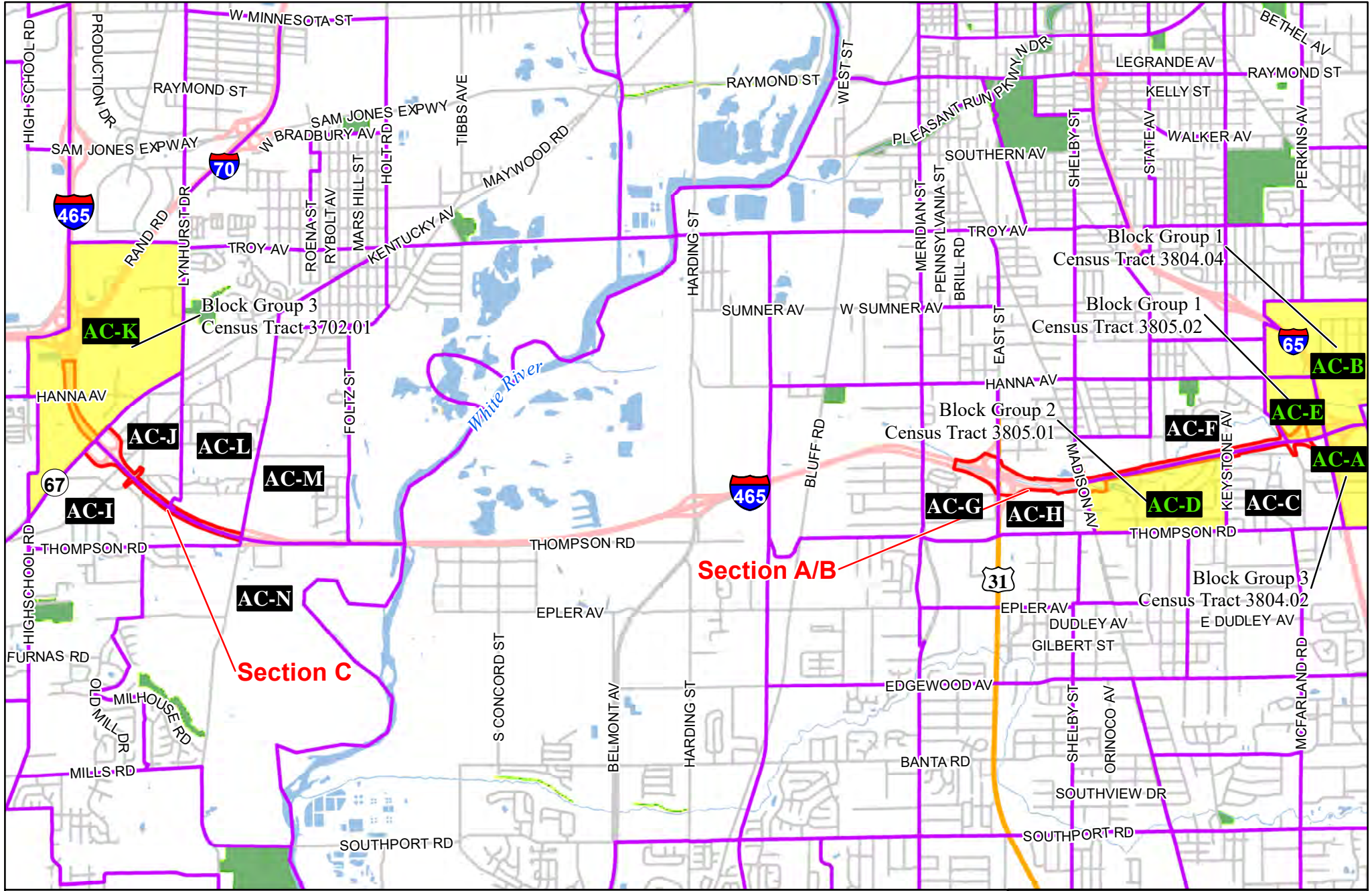
Photo 18 – View of I-465 from the Mooresville Road Bypass bridge facing northwest (5-24-19).



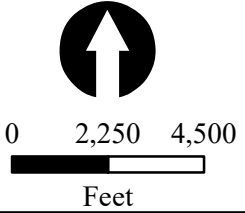
Photo 19 – View of Kentucky Avenue median north of the I-465 overpass facing south (5-28-19).



Photo 20 – View of roadside along eastbound I-465 near Hanna Avenue overpass facing south (5-29-19).



- Study Area
- Census Tract Block Groups
- Water
- EJ Population of Concern
- Parks
- AC-A Affected Communities (AC)



**I-465 Reconfiguration A/B & C
Marion County, Indiana
Affected Communities**

Sources:
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 Obtained from the State of Indiana Geographical
 Information Office Library
 Orthophotography -
 Obtained from Indiana Map
 Framework Data (www.indianamap.org)

Des. 1802075
 Date: 9/10/2019

