

PROJECT	DESIGNATION
1900308	1602258
CONTRACT	BRIDGE FILE
R-42287	062-82-10719

# INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
062-82-10719	Composite Prestressed Concrete Bulb-Tee	1 Span @ 81'-9" Skew: 15°00'00" Lt.	Carpentier Creek	328+88.53 "PR-1"

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1900308 (LEAD)	SR 62 (Lloyd) from Rosenberger Ave (4.59 miles W. of S. JCT US 41) to 2.72 miles W. of S. JCT US 41 (Wabash Ave) - Road Reconstruction
1900263	SR 62 (Lloyd) at 3.09 miles W. of US 41 (St. Joseph Ave) - Intersection Improvements
1900264	SR 62 (Lloyd) at 4.58 miles W. of US 41 (Rosenberger Ave) - Intersection Improvements
1500041	SR 62 (Lloyd) over CSX Railroad - Bridge Replacement
1600060	SR 62 (Lloyd) over Tekoppel Ave - Bridge Replacement
1602258	SR 62 (Lloyd) over Carpentier Creek - Bridge Replacement
2000187	SR 66 (Lloyd) at 2.72 miles W. of US 41 (Wabash Ave) - Intersection Improvements
1900268	SR 66 (Lloyd) at 1.79 miles E. of US 41 (Vann Ave) - Intersection Improvements
2000187	SR 66 (Lloyd) at 3.23 miles W. of US 41 - Pedestrian Bridge Replacement

**NOTE TO REVIEWER:**  
 CONTRACT R-42287 AND ADJACENT CONTRACTS ARE CURRENTLY BEING REVIEWED BY INDOT TO ADJUST PROJECT BUNDLING. THE PROJECTS CURRENTLY SHOWN IN THIS KIN PROJECT INFORMATION TABLE ARE THOSE ALONG SR 62 (LLOYD EXPRESSWAY) FROM WABASH AVE. TO ROSENBERGER AVE., WHICH ARE CURRENTLY ANTICIPATED TO REMAIN BUNDLED IN A CONTRACT. AT THE STAGE 3 SUBMISSION THE KIN PROJECT INFORMATION TABLE WILL BE UPDATED AS NEEDED.

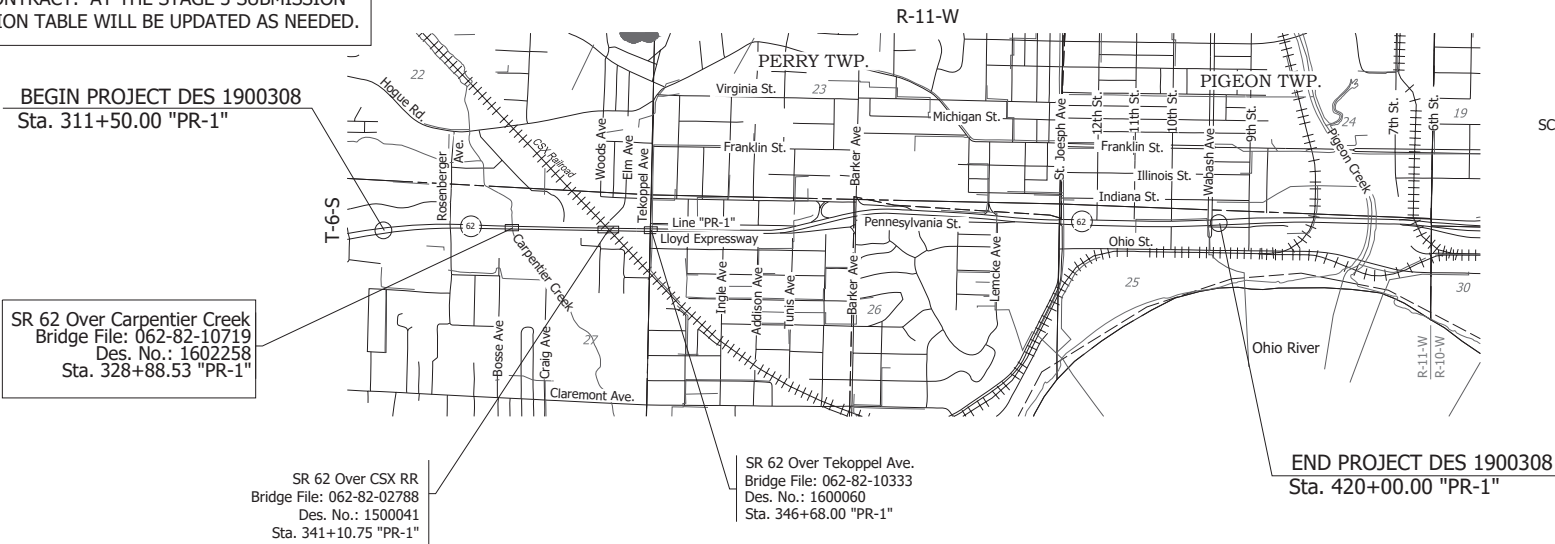
## BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: SR 62 AT: RP 23+05

PROJECT NO. 1900308 P.E.  
 1900308 R/W  
 1900308 CONST.

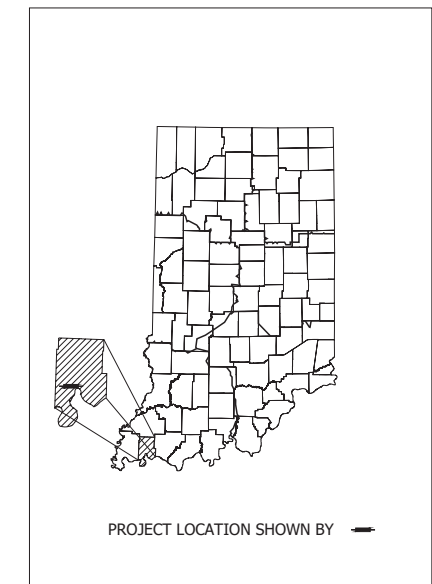
Bridge Replacement on SR 62 over Carpentier Creek  
 Located 4.43 Miles West of US 41  
 Section 27, T-6-S, R-11-W, Perry Township, Vanderburgh County



LOCATION MAP

TRAFFIC DATA		
A.A.D.T. (2024)		43,200 V.P.D.
A.A.D.T. (2044)		47,750 V.P.D.
D.H.V. (2044)		4,150 V.P.H.
DIRECTIONAL DISTRIBUTION		51/49% EB/WB
TRUCKS		2.6% A.A.D.T. 1.0% D.H.V.

DESIGN DATA	
DESIGN SPEED	50 M.P.H.
PROJECT DESIGN CRITERIA	Reconstruction (Non-Freeway)
FUNCTIONAL CLASSIFICATION	Principal Arterial
RURAL/URBAN	Urban (Built-Up)
TERRAIN	Level
ACCESS CONTROL	Partial

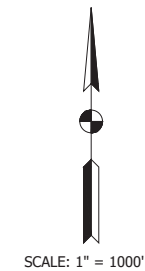


PROJECT LOCATION SHOWN BY

LATITUDE: 37°58'39" N LONGITUDE: 87°37'31" W

BRIDGE LENGTH:	0.016	MI.
ROADWAY LENGTH:	2.039	MI.
TOTAL LENGTH:	2.055	MI.
MAX. GRADE:	+3.40	%

HUC (14): 05140202050010  
 HUC (12): 051402020401



Date: Dec 01, 2022, 4:01pm User Name: Tracy  
 File: S:\\_2019\11-09-2021\Bridges\Carpentier Creek\_1602258\CAD\Plans\TRC\_Sht.dwg



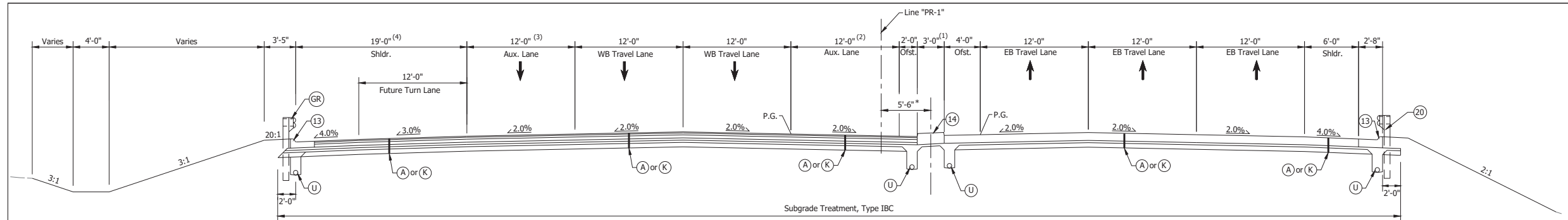
Preliminary

PLANS PREPARED BY:	LOCHMUELLER GROUP, INC.	(812) 479-6200 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

INDIANA DEPARTMENT OF TRANSPORTATION  
 STANDARD SPECIFICATIONS DATED 2022  
 TO BE USED WITH THESE PLANS

BRIDGE FILE	
062-82-10719	
DESIGNATION	
1602258	
SURVEY BOOK	SHEET
ELECTRONIC	1 of 22
CONTRACT	PROJECT
R-42287	1900308



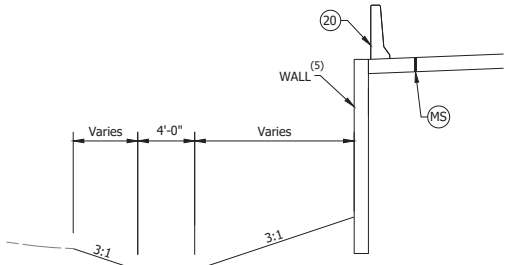


(3) Trans 12'-0" to 0'-0"; Sta. 330+00.00 to Sta. 331+00.00  
 (4) Sta. 320+57.00 to Sta. 325+30.00; Curb & Gutter w/ Guardrail

TYPICAL TANGENT SECTION  
 6 - LANE W/ WB LEFT TURN  
 Sta. 320+57.00 to Sta. 331+00.00

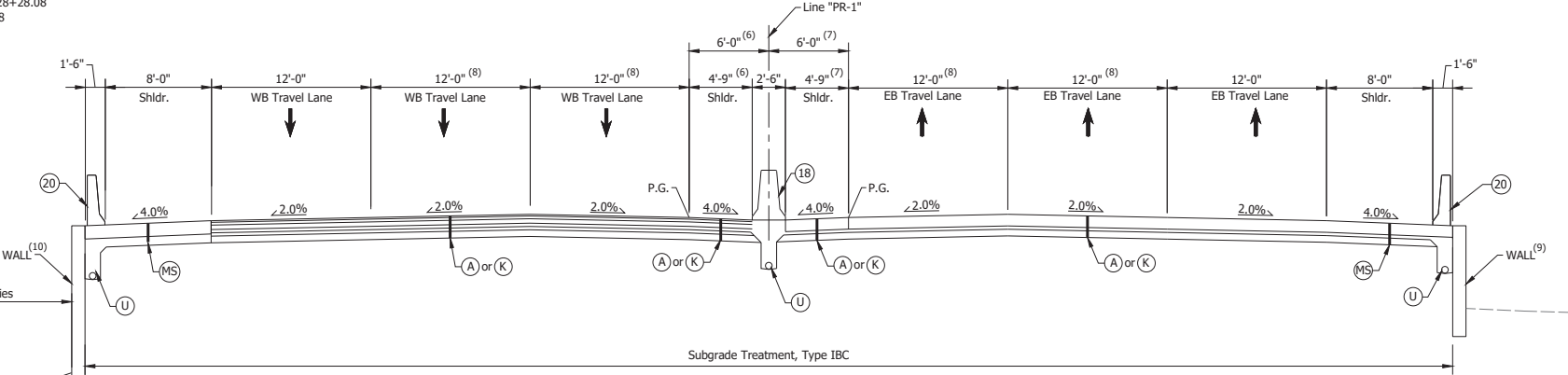
(1) Trans 3'-0" to 12'-9"; Sta. 330+00.00 to Sta. 331+00.00  
 (2) Trans 12'-0" to 0'-0"; Sta. 330+00.00 to Sta. 331+00.00  
 \* Median Curb Transition, Sta. 330+00.00 to Sta. 331+00.00; See Construction Details

PAVING EXCEPTIONS  
 Sta. 328+14.77 to Sta. 329+62.50



AUXILIARY MSE Wall w/ DITCH  
 (5) Wall 1 - Sta. 325+50.00 to Sta. 328+28.08  
 Wall 2 - Begin wall Sta. 329+19.98

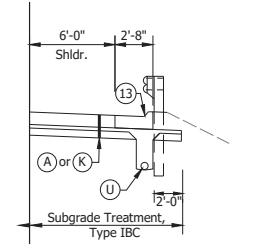
**NOTE TO REVIEWER:**  
 DUE TO ANTICIPATED SETTLEMENT AFTER THE COMPLETION OF CONSTRUCTION THE REINFORCED CONCRETE BRIDGE APPROACHES WILL BE OVERLAID WITH 3" OF HMA AND ALL PAVEMENT ADJACENT TO THE BRIDGE WILL BE FULL DEPTH HMA WITH THE ROADSIDE BARRIER MOMENT SLABS OVERLAID WITH 3" OF HMA. PLEASE SEE THE SUBMITTED CORRESPONDENCE FILE FOR ADDITIONAL INFORMATION. THE ROADWAY TYPICAL SECTIONS WILL BE UPDATED PRIOR TO THE STAGE 3 SUBMISSION.



(10) Wall 2 - End wall Sta. 340+12.68  
 Wall 4 - Sta. 341+05.82 to Sta. 346+15.00  
 Wall 7 - Sta. 347+29.46 to Sta. 354+00.00  
 (11) No Ditch - Sta. 346+25.00 to Sta. 354+00.00

TYPICAL TANGENT SECTION  
 6 - LANE  
 Sta. 331+00.00 to Sta. 354+00.00

(6) Trans 7'-9" to 4'-9"; Sta. 331+00.00 to Sta. 334+00.00  
 Trans 9'-0" to 6'-0"; Sta. 331+00.00 to Sta. 334+00.00  
 (7) Trans 8'-6" to 4'-9"; Sta. 331+00.00 to Sta. 334+00.00  
 Trans 9'-9" to 6'-0"; Sta. 331+00.00 to Sta. 334+00.00  
 (8) Trans 12'-0" to 11'-0"; Sta. 351+00.00 to Sta. 354+00.00  
 (9) Wall 3 - Sta. 335+00.00 to Sta. 341+12.68  
 Wall 5 - Sta. 342+05.82 to Sta. 346+15.00  
 Wall 6 - Sta. 347+29.46 to Sta. 350+50.00



AUXILIARY GUARDRAIL SECTION  
 Sta. 350+69.20 to Sta. 354+00.00

**LEGEND**

- (A) 10.5" QC/QA PCCP w/ (15" D-1 Joint Spacing w/ 1.5" Dowel Bar @ 1'-0" c/c) on 300#/SYS QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6" Compacted Aggregate No. 53 on Geotextile for Pavement, Type 2A on Subgrade Treatment, Type IBC
- (K) 165#/SYS QC/QA HMA, 3, 70, Surface 9.5mm on 275#/SYS QC/QA HMA, 3, 70, Intermediate 19.0mm, on 440#/SYS QC/QA HMA, 3, 64, Base 19.0mm, on 330#/SYS QC/QA HMA, 3, 64, Base 19.0mm, on 300#/SYS QC/QA HMA, 4, 76, Intermediate OG 19.0mm, on 6" Compacted Aggregate No. 53 on Geotextile for Pavement, Type 2A on Subgrade Treatment, Type IBC
- (GR) Guardrail
- (MS) R.C. Moment Slab, 12"
- (U) 6" Underdrain
- (13) Curb & Gutter, Concrete, Type B
- (14) Center Curb, B, Concrete, Modified
- (18) Concrete Barrier Wall, 45"
- (20) Concrete Railing, FT

FOR INFORMATION ONLY

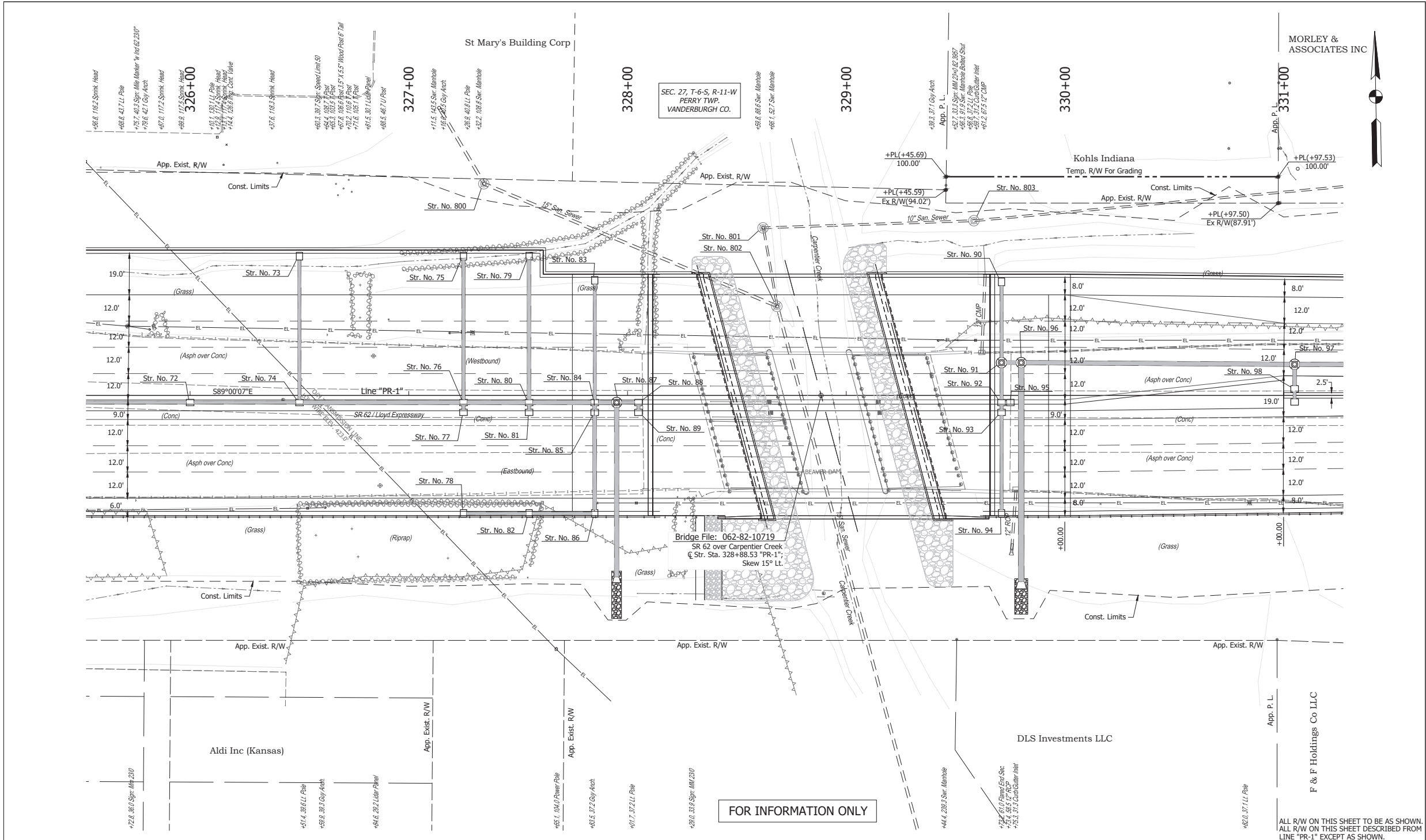
Preliminary

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAW	DRAWN: LLF	
CHECKED: NAW	CHECKED: JAW	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 TYPICAL CROSS SECTIONS  
 LINE "PR-1"

HORIZONTAL SCALE	BRIDGE FILE
3/16"=1'-0"	062-82-10719
VERTICAL SCALE	DESIGNATION
N/A	1602258
SURVEY BOOK	SHEET
ELECTRONIC	3 of 22
CONTRACT	PROJECT
R-42287	1900308

Date: Dec 01, 2022, 4:01pm User Name: Tracy  
 File: S:\\_2019\11-09-2021\Bridges\Cherokee Creek\_1602258\CAD\Misc\Drawings\Typicals\PR-1.dwg



**Note:**  
 All Stationing off Line "PR-1" Unless Otherwise Noted.  
 All Station/Offset Note Stationing off Line "F".

Preliminary

FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAW	DRAWN: LLF	
CHECKED: NAW	CHECKED: JAW	

INDIANA  
 DEPARTMENT OF TRANSPORTATION

PLAN - LINE "PR-1"  
 STA. 325+50 TO STA. 331+25

HORIZONTAL SCALE	BRIDGE FILE
1"=20'	062-82-10719
VERTICAL SCALE	DESIGNATION
N/A	1602258
SURVEY BOOK	SHEET
ELECTRONIC	6 of 22
CONTRACT	PROJECT
R-42287	1900308

Date: Dec 01, 2022, 4:02pm User Name: Tracy  
 File: S:\\_2019\11-09-2021\Bridges\Carpenter Creek\_1602258\CAD\Misc\Drawings\Plan\_304-50 - 337-00.dwg

ALL R/W ON THIS SHEET TO BE AS SHOWN.  
 ALL R/W ON THIS SHEET DESCRIBED FROM  
 LINE "PR-1" EXCEPT AS SHOWN.

MORLEY &  
 ASSOCIATES INC



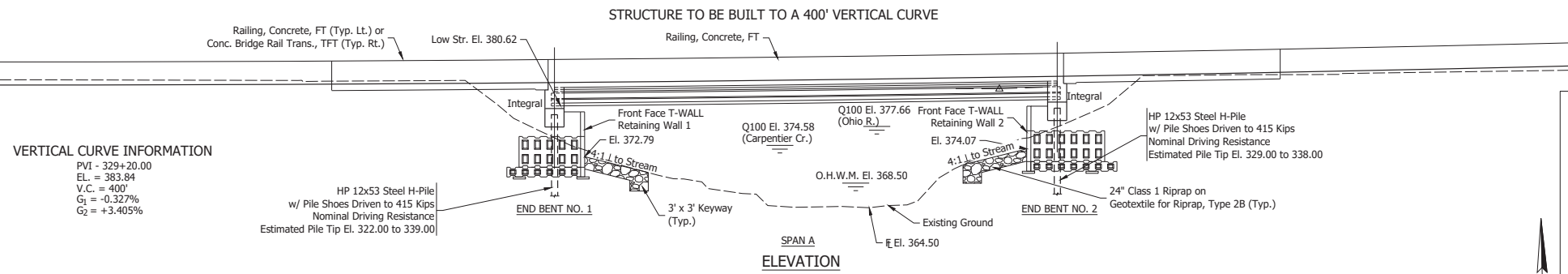
Aldi Inc (Kansas)

DLS Investments LLC

F & P Holdings Co LLC

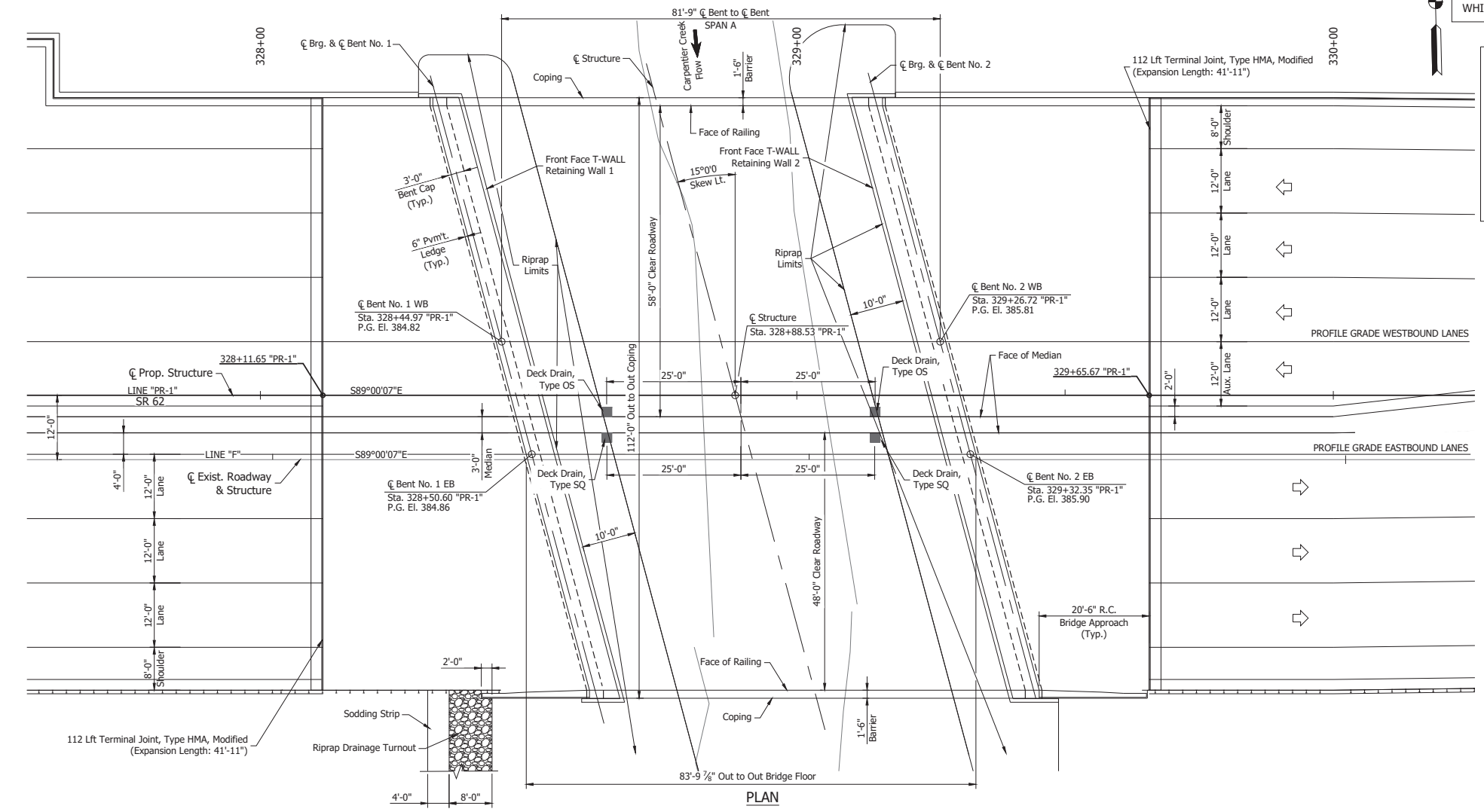
SEC. 27, T-6-S, R-11-W  
 PERRY TWP.  
 VANDERBURGH CO.

Bridge File: 062-82-10719  
 SR 62 over Carpenter Creek  
 @ Str. Sta. 328+88.53 "PR-1";  
 Skew 15° Lt.



**VERTICAL CURVE INFORMATION**  
 PVI = 329+20.00  
 EL. = 383.84  
 V.C. = 400'  
 G<sub>1</sub> = -0.327%  
 G<sub>2</sub> = +3.405%

**NOTE TO REVIEWER:**  
 DUE TO ANTICIPATED SETTLEMENT AFTER THE COMPLETION OF CONSTRUCTION THE REINFORCED CONCRETE BRIDGE APPROACHES WILL BE OVERLAID WITH 3" OF HMA AND ALL PAVEMENT ADJACENT TO THE BRIDGE WILL BE FULL DEPTH HMA WITH THE ROADSIDE BARRIER MOMENT SLABS OVERLAID WITH 3" OF HMA. A MODIFIED TYPE PCCP TERMINAL JOINT WILL BE USED DUE TO THE ADJACENT MOMENT SLABS WHICH WILL BE OVERLAID WITH 3" OF HMA AND AN ASPHALTIC PLUG JOINT INCLUDED TO ACCOMMODATE EXPANSION. PLEASE SEE THE SUBMITTED CORRESPONDENCE FILE FOR ADDITIONAL INFORMATION. COORDINATION IS ONGOING WITH APPROPRIATE INDOT SERVICES FOR FINALIZATION OF DETAILS, WHICH WILL BE UPDATED PRIOR TO THE STAGE 3 SUBMISSION.



**NOTE TO REVIEWER:**  
 THE PROPOSED T-WALL RETAINING WALLS WILL EXTEND PARALLEL WITH SR 62 AN ADEQUATE DISTANCE TO AVOID CONFLICT BETWEEN T-WALL STEMS AND MSE WALL SOIL REINFORCEMENT. A VERTICAL SLIP JOINT WILL BE PROVIDED BETWEEN THE T-WALL AND ADJACENT MSE WALL AND DETAILS PROVIDED IN THE STAGE 3 SUBMISSION. THE T-WALL WALL DIMENSIONS AND DETAILS WILL BE SUBMITTED FOR INDOT GEOTECHNICAL SERVICES REVIEW PRIOR TO THE STAGE 3 SUBMISSION WITH THE APPROVED INFORMATION PROVIDED WITHIN THE STAGE 3 SUBMISSION.

**COMPOSITE PRESTRESSED CONCRETE  
 BULB-TEE BEAM BRIDGE  
 1 SPAN @ 81'-9"  
 CLEAR ROADWAY: 48'-0"(EB) & 58'-0"(WB)  
 SKEW: 15°00'00" LT.  
 SR 62 OVER CARPENTIER CREEK  
 VANDERBURGH COUNTY**

Date: Dec 01, 2022, 4:04pm User Name: Tracy  
 File: S:\\_2019\11-09-2021\Bridges\Carpentier Creek\_1602258\CD\Plans\GenPlan.dwg

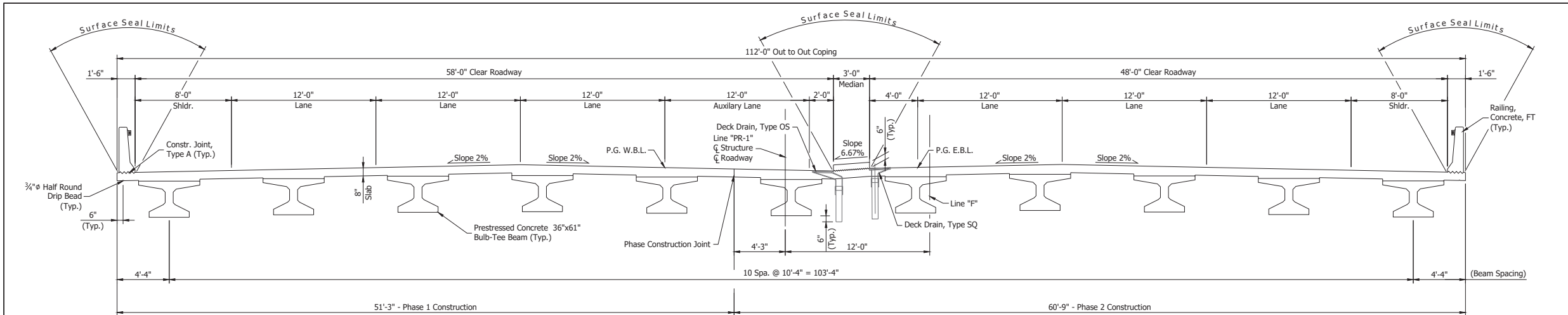
Preliminary

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ACS	DRAWN: TAM	
CHECKED: MAR	CHECKED: ACS	

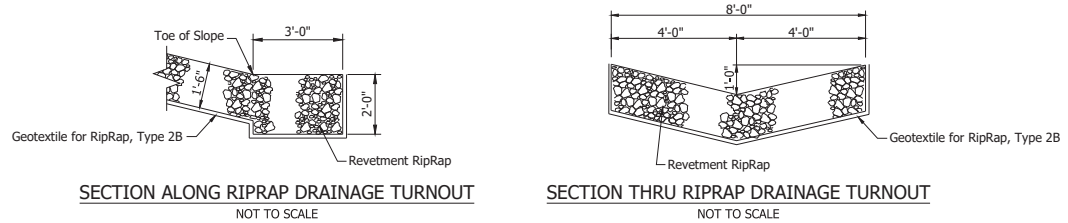
INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
1/4"=1'-0"	062-82-10719
VERTICAL SCALE	DESIGNATION
1/4"=1'-0"	1602258
SURVEY BOOK	SHEET
ELECTRONIC	11 of 22
CONTRACT	PROJECT
R-42287	1900308





BRIDGE TYPICAL SECTION



SECTION ALONG RIPRAP DRAINAGE TURNOUT  
NOT TO SCALE

SECTION THRU RIPRAP DRAINAGE TURNOUT  
NOT TO SCALE

CONSTRUCTION LOADING

The exterior beam 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 beam. The finishing machine was assumed to be supported 6in. outside the vertical coping form. The top overhang brackets were assumed to be located 6in. past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the beam bottom flange and web.

- Deck Falsework Loads: Designed for 15 lb/ft<sup>2</sup> for permanent metal stay-in-place deck forms, removable deck forms and 2 ft. exterior walkway.
- Construction Live Load: Designed for 20 lb/ft<sup>2</sup> extending 2 ft. past the edge of coping and 75 lb/ft vertical force applied at a distance of 6in. 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: Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

DESIGN STRESSES

Class C Concrete:  $f_c = 4,000$  psi  
Reinforcing Steel (Grade 60):  $f_y = 60,000$  psi

DESIGN DATA

- Live Load: Designed for HL-93 Loading, in accordance with the AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017, and subsequent interims through 2018.
- Dead Load: Actual weight plus 35 lb/ft<sup>2</sup> for future wearing surface and 15 lb/ft<sup>2</sup> for permanent metal deck forms.
- Bridge Floor: Designed with a 7 1/2" structural depth plus 1/2" sacrificial wearing surface.

SEISMIC DATA

Seismic Performance Zone: Zone 2  
Acceleration Coefficient: 0.264  
Seismic Soil Profile Type: Class D

GENERAL NOTES

- Reinforcing steel covering shall be 2 1/2" in top and 1" minimum in bottom of floor slab, 4" in bottom of footings, and 2" in all other parts, unless noted.
- Concrete requirements: Concrete in Superstructure and End Bents to be Class "C".
- Surface seal all exposed surfaces of concrete barrier railing and median. Estimated Quantity = x,xxx SFT.

COMPOSITE PRESTRESSED CONCRETE  
BULB-TEE BEAM BRIDGE  
1 SPAN @ 81'-9"  
CLEAR ROADWAY: 48'-0"(EB) & 58'-0"(WB)  
SKEW: 15°00'00" LT.  
SR 62 OVER CARPENTIER CREEK  
VANDERBURGH COUNTY

Date: Dec 01, 2022 4:04pm User Name: Tracy  
File: S:\\_2019\11-09-07\Bridges\Carpentier Creek\_1602258\CAD\Plans\GenPlan.dwg

Preliminary

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			3/32"=1'-0"	062-82-10719
DESIGNED: _____ ACS _____ DRAWN: _____ TAM _____	GENERAL PLAN		VERTICAL SCALE	DESIGNATION
CHECKED: _____ MAR _____ CHECKED: _____ ACS _____			3/32"=1'-0"	1602258
			SURVEY BOOK	SHEET
			ELECTRONIC	12 of 22
			CONTRACT	PROJECT
			R-42287	1900308