

FIS ROUTE	IDOT SECTION	COUNTY
1857	04-00071-00-BR	MONROE
FEDERAL AID PROJECT	ILLINOIS	
IDOT JOB NO.	BR-RS-1857(121)	
IDOT CONTRACT NO.	97323	

THOUVENOT, WADE & MOERCHEN, INC.
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-011220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001028
MISSOURI LAND SURVEYING CORP.	NC 000346

SEAL

FINAL

Signature: _____
Signature Date: _____
Expiration Date: _____

STATEMENT OF RESPONSIBILITY
I hereby confirm that the document herein to be authenticated by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.

PROPOSED TYPICAL CROSS SECTIONS
BLUFF ROAD (CTY. HWY. 6)
BLUFF ROAD (CTY. HWY. 6)
BRIDGE REPLACEMENT OVER FOUNTAIN CREEK
MONROE COUNTY, IL

REV.	DATE	DESCRIPTION

DRAWN BY: KBF/JWS
DESIGNED BY: BJG
CHECKED BY: SJK
APPROVED BY: SJK
PROJECT DESCRIPTION: BLUFF RD. BRIDGE OVER FOUNTAIN CRK.
PROJECT NUMBER: 16-040125

ISSUED FOR REVIEW ISSUED FOR BIDDING
 ISSUED FOR CONSTR. RECORD DRAWING

LEGEND

- ① EXISTING AGGREGATE SHOULDER, TYPE B, 6"
- ② EXISTING AGGREGATE SHOULDER, TYPE B, 4"
- ③ EXISTING PAVEMENT MARKING
- ④ EXISTING AGGREGATE BASE COURSE, TYPE A, 12" W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- ⑤ EXISTING LEVELING BINDER (MACHINE METHOD), N70, 2"
- ⑥ EXISTING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- ⑦ EXISTING AGGREGATE BASE COURSE, TYPE A, 8" W/ EXISTING BITUMINOUS SURFACE TREATMENT, CLASS A3
- ⑧ PROPOSED AGGREGATE SHOULDER, TYPE B, 6"
- ⑨ PROPOSED PAVEMENT MARKING
- ⑩ PROPOSED LIME MODIFIED SOIL, 12"
- ⑪ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, CA-4, 5"
- ⑫ PROPOSED AGGREGATE BASE COURSE, TYPE A, CA-6, 8"
- ⑬ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 3"
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- ⑮ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH
- ⑯ PROPOSED GUARDRAIL, TYPE A (REFER TO INTERSECTION DETAILS)
- ⑰ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, VARIABLE DEPTH
- ⑱ PROPOSED MILLING OF EXISTING SURFACE (REFER TO PLAN FOR AREA, LOCATION AND DEPTH INFORMATION)

STRUCTURAL DESIGN TRAFFIC: YEAR 2017
PV= 3,117 SU= 98 MU= 66

ROAD/STREET CLASSIFICATION: CLASS II

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P= 50% S= 50% M= 50%

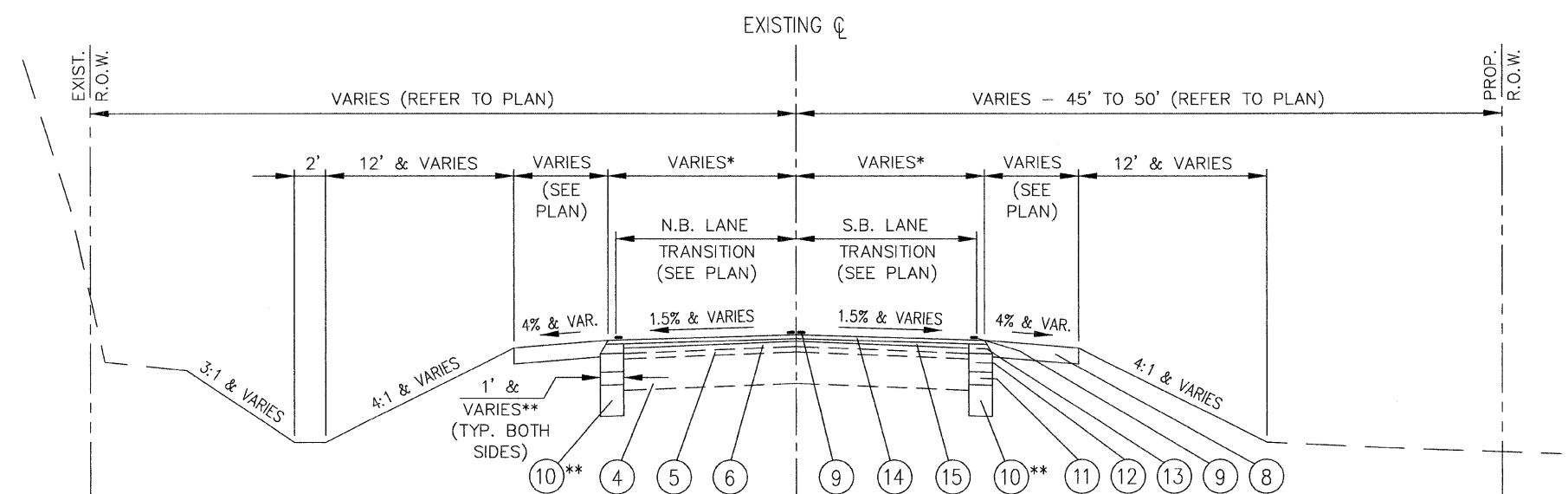
TRAFFIC FACTOR: Actual TF= 0.37 AC Type= 20
Minimum TF= NO MINIMUM

PG GRADE: Binder= PG64-22 Surface= PG64-22

SUBGRADE SUPPORT RATING:
SSR= POOR (Sta. 285+86.34 to 325+06.21)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

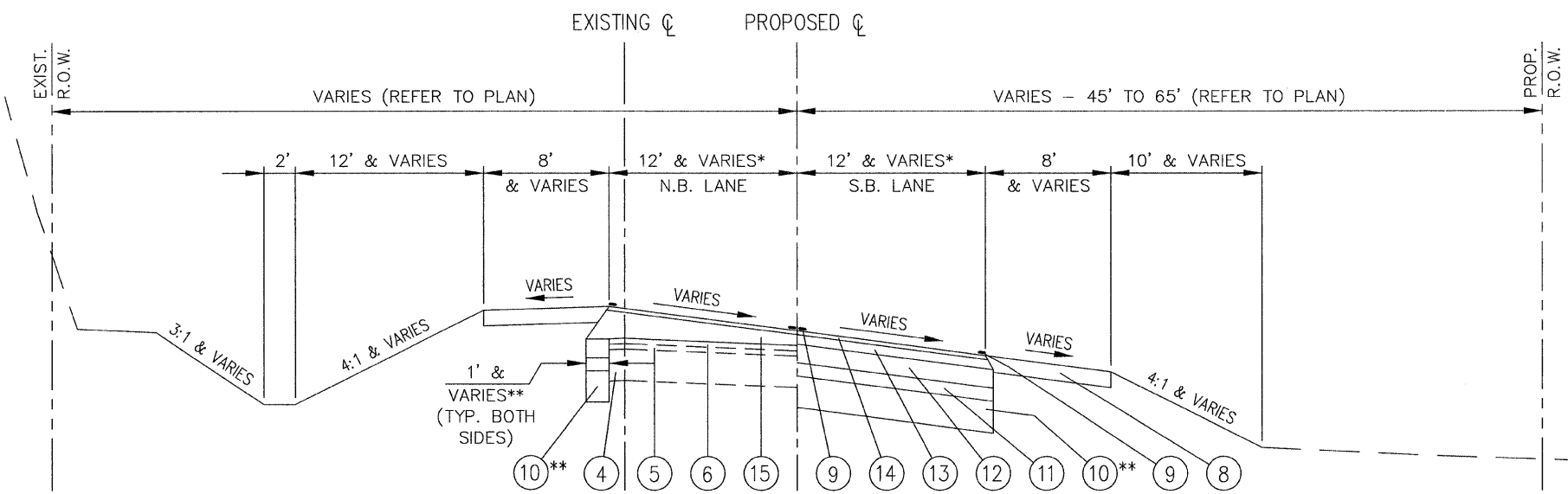
MIXTURE USE	SURFACE	LEVELING BINDER	BINDER	SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 58-22
RAP % (MAX.)	10%	15%	15%	30%
DESIGN AIR Voids	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)			IL 19.0	
FRICTION AGG.	MIXTURE D	MIXTURE C	MIXTURE B	BIT. AGG. MIX.



***WIDTH SUMMARY:**
11' (STA. 285+86.34)
12' (STA. 287+36.24 TO STA. 324+50.01)
11' (STA. 325+06.21)

COUNTY HIGHWAY 6 (BLUFF ROAD)
PROPOSED TYPICAL SECTION
STA. 285+86.34 TO STA. 286+19.26
STA. 324+09.76 TO STA. 325+06.21

** REFER TO GENERAL NOTES FOR INFORMATION REGARDING AGGREGATE SUBSTITUTION FOR WIDENING WIDTHS < 6 FEET (WIDTH OF WIDENING DEPICTED ON CROSS SECTIONS).



***WIDTH SUMMARY:**
11' (STA. 285+86.34)
12' (STA. 287+36.24 TO STA. 324+50.01)
11' (STA. 325+06.21)

COUNTY HIGHWAY 6 (BLUFF ROAD)
PROPOSED TYPICAL SECTION - CURVE #1
STA. 286+19.26 TO STA. 294+38.15

** REFER TO GENERAL NOTES FOR INFORMATION REGARDING AGGREGATE SUBSTITUTION FOR WIDENING WIDTHS < 6 FEET (WIDTH OF WIDENING DEPICTED ON CROSS SECTIONS).

SUPERELEVATION ATTAINMENT - PROPOSED BLUFF ROAD CURVE #1				
LEFT SIDE		PROPOSED STATION (LOOKING UPSTATION)	RIGHT SIDE	
LEFT SHOULDER CROSS SLOPE (% FROM C.L. TO THE LEFT)	LEFT LANE CROSS SLOPE (% FROM C.L. TO THE LEFT)		RIGHT LANE CROSS SLOPE (% FROM C.L. TO THE RIGHT)	RIGHT SHOULDER CROSS SLOPE (% FROM C.L. TO THE RIGHT)
-4.00%	0.00%	294+38.15	0.00%	-4.00%
-1.50%	6.50%	288+32.38 TO 291+44.68	-6.50%	-6.50%
-4.00%	-1.50%	286+19.26 286+99.18	-1.50%	-4.00%

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