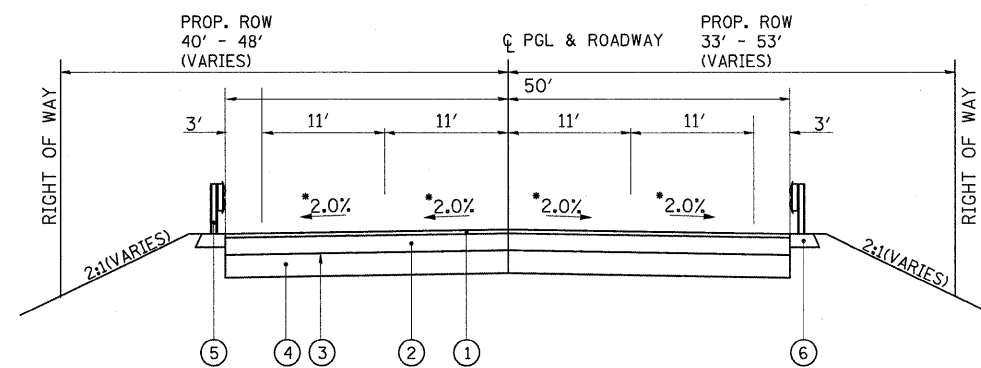


REMOVAL ITEM

**EXISTING ROADWAY - DIXIE HIGHWAY**

Sta. 73+50 to Sta. 77+97  
Sta. 79+15 to Sta. 84+25  
BRIDGE LIMITS  
(78+28 to 78+84)

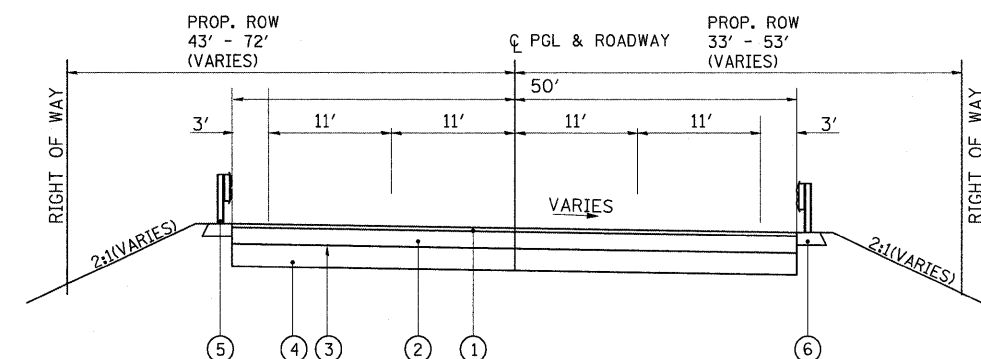


**PROPOSED ROADWAY - DIXIE HIGHWAY**

Sta. 73+50 to Sta. 77+42

**SUPERELEVATION CHART**

SUPERELEVATION RATE: e=3.29%  
SUPERELEVATION RUNOFF: L=196.80'  
TANGENT RUNOUT: TR=80.08'  
BEGIN SUPERELEVATION TRANSITION: STA. 75+30.23  
TANGENT RUNOUT: STA. 76+10.31  
FULL SUPERELEVATION: STA. 80+32.77



**PROPOSED ROADWAY - DIXIE HIGHWAY**

Sta. 79+68 to Sta. 84+25

**EXISTING LEGEND**

- (A) EXISTING HMA PAVEMENT, 2 1/4" (+)
- (B) EXISTING P.C.C. BASE COURSE, 9" (+)
- (C) EXISTING HMA SHOULDER, 8" (+)
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING STEEL PLATE BEAM GUARDRAIL

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 70, (IL-9.5mm), 2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N 70, 11"
- (3) AGGREGATE MATERIALS (PRIME COAT)
- (4) PROPOSED AGGREGATE SUBGRADE, 12"
- (5) PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
- (6) HMA SHOULDERS, 8"

| HMA MIXTURE REQUIREMENTS                                      |           |             |
|---|-----------|-------------|
| PAY ITEM  | AC TYPE   | VOIDS       |
| FULL DEPTH PAVEMENT, 13"                                      |           |             |
| HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 70, (IL-9.5mm), 2"   | PG 64 -22 | 4% @ 70 GYR |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N 70, 11"             | PG 64 -22 | 4% @ 70 GYR |
| TEMPORARY HMA PAVEMENT, 10"                                   |           |             |
| HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 70, (IL-9.5mm), 1.5" | PG 64 -22 | 4% @ 70 GYR |
| HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N 70, 8.5"            | PG 64 -22 | 4% @ 70 GYR |
| DRIVEWAYS   |           |             |
| HMA BASE COURSE (HMA BINDER IL-19 mm), 6"                     | PG 58-22  | 2% @ 50 GYR |
| HOT-MIX ASPHALT SURFACE COURSE, MIX D, N 70, (IL-9.5mm), 2"*  | PG 64-22  | 4% @ 70 GYR |
| CLASS D PATCHES   |           |             |
| CLASS D PATCH (HMA BINDER IL-19 mm), 6"                       | PG 64-22  | 4% @ 70 GYR |
| HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)            | PG 64-22  | 4% @ 70 GYR |
| SHOULDERS   |           |             |
| HMA SHOULDER, 8"  | PG 58-22  | 2% @ 30 GYR |

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIX QUANTITIES IS 112 lbs / sq yd / In.  
\*DUE TO THE MINIMAL AMOUNT OF DRIVEWAY SURFACE NEEDED, PAVEMENT SURFACE COURSE TO BE USED.

|  |  |              |  |
|--|--|--------------|--|
| STRUCTURAL DESIGN TRAFFIC:                           | Year 2015                                      |              |  |
| PV = 19,052  | SU = 595                                       | MU = 198     |  |
| ROAD / STREET CLASSIFICATION:                        | Class 1  |              |  |
| PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: |  |              |  |
| P = 32%  | S = 45%  | M = 45%      |  |
| TRAFFIC FACTOR:                                      | Actual TF = 1.59                               | AC Type = 10 |  |
|  | Minimum TF = 0.59                              |              |  |
| AC GRADE:  | Binder = IL - 19, N70 Surface = Mix " D ", N70 |              |  |
| SUBGRADE SUPPORT RATING:                             |  |              |  |
| SSR =  | (Sta. to )                                     |              |  |
| SSR =  | (Sta. to )                                     |              |  |

**RME** Rubinos & Mesia Engineers, Inc.  
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T> 312 870 6600 F> 312 863 1473

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.U. 2843 DIXIE HIGHWAY  
OVER BUTTERFIELD CREEK  
**TYPICAL SECTIONS (ROADWAY)**  
SCALE: VERT. NONE  
HORIZ. 7-2-09  
DRAWN BY AW  
DESIGNED BY AW  
CHECKED BY MF