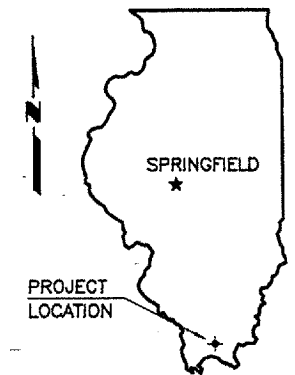


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM

FAS ROUTE 931
SECTION 02-00058-00-RS
PROJECT NO. RS-931(109)
JOB NO. C-99-501-05

| ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------------------|----------------|---------|--------------------|-----------|
| FAS 931 | 02-00058-00-RS | JOHNSON | 4 | 1 |
| PROJECT NO. RS-931(109) | | | CONTRACT NO. 99211 | |



INDEX OF SHEETS

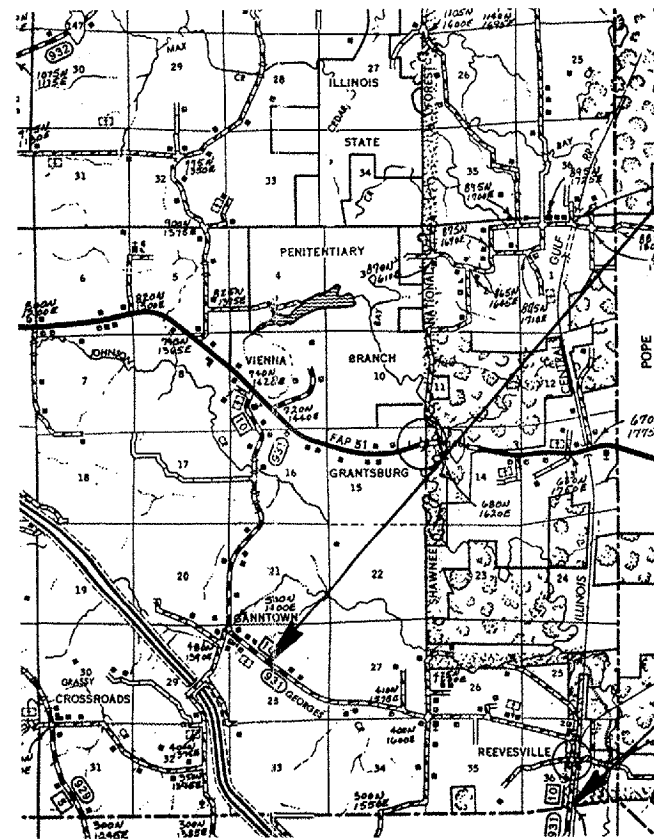
1. COVER SHEET
 2. TYPICAL SECTIONS
 3. TYPICAL SIDE ROAD & ENTRANCE DETAILS
 4. MISCELLANEOUS DETAILS
- STANDARDS
- | | |
|-----------|------------------------------------|
| 701001-01 | TRAFFIC CONTROL |
| 701006-02 | TRAFFIC CONTROL |
| 701011-01 | TRAFFIC CONTROL |
| 701301-02 | TRAFFIC CONTROL |
| 701306-01 | TRAFFIC CONTROL |
| 701311-02 | TRAFFIC CONTROL |
| 702001-05 | TRAFFIC CONTROL DEVICES |
| 720001 | SIGN PANEL MOUNTING DETAILS |
| 720006 | SIGN PANEL ERECTION DETAILS |
| 780001-01 | TYPICAL PAVEMENT MARKINGS |
| 781001-02 | RAISED REFLECTIVE PAVEMENT MARKERS |
| BLR 24-1 | MAILBOX TURNOUTS |

SUMMARY OF QUANTITIES

| CODE NO. | PAY ITEM | UNIT | TOTAL |
|-----------|---|--------|--------|
| X4066416* | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70 | TON | 3,675 |
| X4066770* | LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70 | TON | 4,785 |
| 28100807* | STONE DUMPED RIPRAP, CLASS A4 | TON | 50 |
| 40200800* | AGGREGATE SURFACE COURSE, TYPE B | TON | 100 |
| 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GALLON | 1,240 |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 19 |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 2,555 |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 2,206 |
| 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 160.3 |
| 72800100 | TELESCOPING STEEL SIGN SUPPORT | FOOT | 674 |
| 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 66,160 |
| 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 287 |

* SEE SPECIAL PROVISIONS

JOHNSON COUNTY



BEGIN IMPROVEMENT STATION 164+60

END IMPROVEMENT STATION 385+20

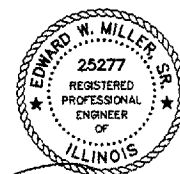
LOCATION MAP

SCALE: 1" = 2 MILES

NET LENGTH OF IMPROVEMENT = 22,060.00 FT. = 4.1780 MILES

CLASSIFICATION : COLLECTOR
ADT : 700
DESIGN SPEED : 50 MPH

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
J.U.L.I.E. 1-800-892-0123
CONTACT 48 HOURS BEFORE EXCAVATING



Edward W. Miller

Edward W. Miller
PROFESSIONAL ENGINEER
#062-025277
EXPIRES NOV. 30, 2005

CONTRACT NO. 99211

E. MILLER ENGINEERING, INC.
CONSULTING ENGINEERS
HARRISBURG, ILLINOIS

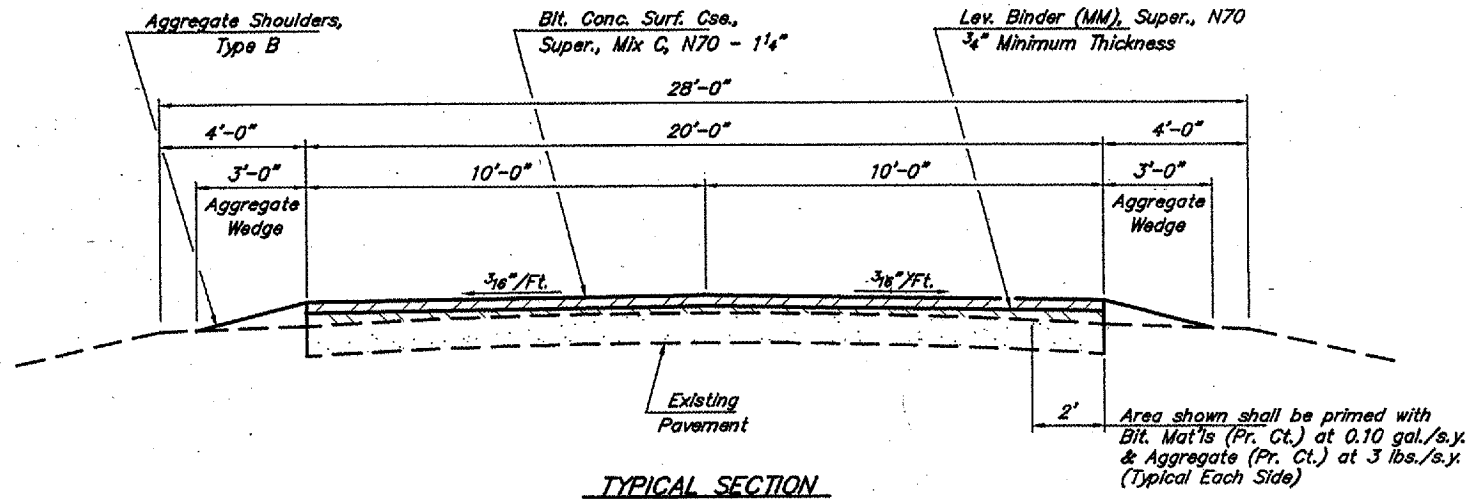
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED FEB 8, 20 05
Steve Kelly
LOCAL AGENCY REPRESENTATIVE

PASSED FEB 25, 20 05
Dani W. Hall
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED FEB 25, 20 05
Mary C. Lamie
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION FIVE ENGINEER

| ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------|----------------|---------|--------------------|-----------|
| FAS 931 | 02-00058-00-RS | JOHNSON | 4 | 2 |
| PROJECT NO. RS-931 (109) | | | CONTRACT NO. 99211 | |

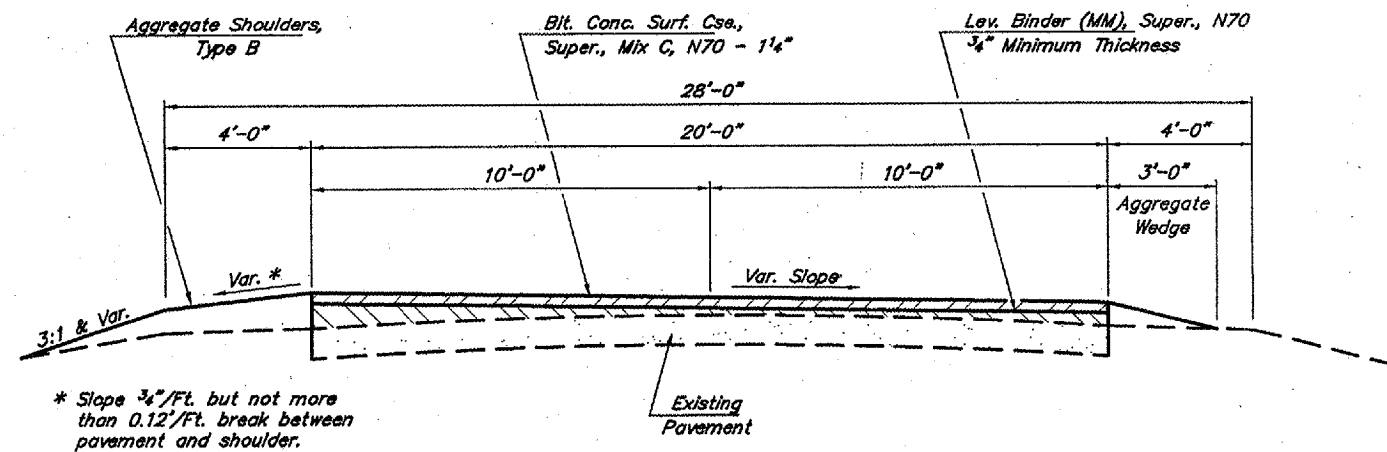


STRUCTURAL DESIGN DATA

Class III Roadway
 Design Period - 20 Years
 PC 687 IBR 2.5
 SU 9 TF 0.026
 MU 4 DT 2.473

Material Coefficient

| | |
|-----------------------------|--------|
| Existing Agg. Base Course | - 0.11 |
| Existing Oil & Chip Surface | - 0.13 |
| Existing Bit. Mix. Complete | - 0.25 |
| Levelling Binder | - 0.33 |
| Bit. Conc. Surface Course | - 0.40 |



SUPERELEVATIONS

| |
|---|
| S.E. = 0.058'/Ft. Attain Sta. 201+81 - Sta. 203+31 Remove Sta. 215+01 - Sta. 216+51 50 MPH |
| S.E. = 0.053'/Ft. Attain Sta. 227+57 - Sta. 229+07 Remove Sta. 234+85 - Sta. 236+35 50 MPH |
| S.E. = 0.050'/Ft. Attain Sta. 256+89 - Sta. 258+39 Remove Sta. 262+68 - Sta. 264+18 50 MPH |
| S.E. = 0.049'/Ft. Attain Sta. 295+48 - Sta. 296+98 Remove Sta. 300+76 - Sta. 302+26 50 MPH |
| S.E. = 0.080'/Ft. Attain Sta. 340+11 - Sta. 341+91 Remove Sta. 348+98 - Sta. 350+78 45 MPH |

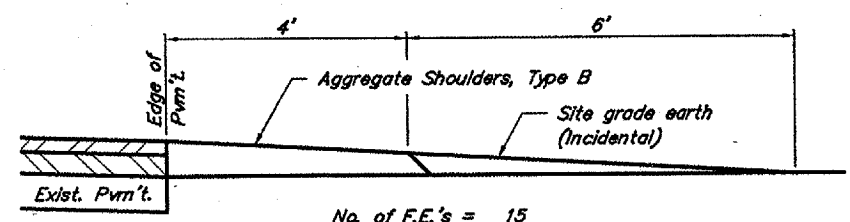
TYPICAL SECTIONS
 FAS ROUTE 931
 SECTION 02-00058-00-RS
 PROJECT NO. RS-931 (109)
 JOHNSON COUNTY

| ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------|----------------|--------------------|--------------|-----------|
| FAS 931 | 02-00058-00-RS | JOHNSON | 4 | 3 |
| PROJECT NO. RS-931 (109) | | CONTRACT NO. 99211 | | |

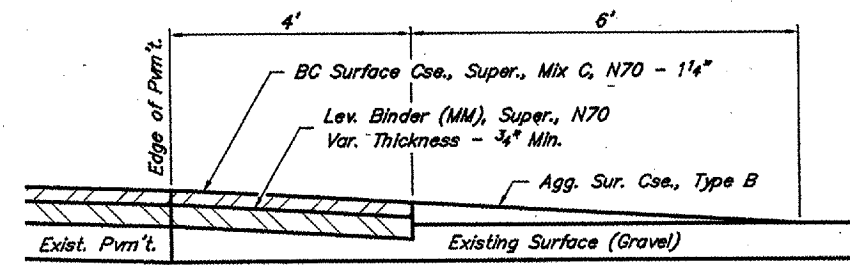
| SCHEDULE OF PRIVATE ENTRANCES | | | | |
|-------------------------------|-------|-------------|--------------|-------------|
| Location | Width | Binder Tons | Surface Tons | Agg. Tons |
| Sta. 189+20 Lt. B | 10' | 0.8 | 1.4 | - |
| Sta. 189+57 Lt. B | 10' | 0.8 | 1.4 | - |
| Sta. 213+85 Rt. G | 12' | 5.7 | 0.9 | 3.3 |
| Sta. 213+87 Lt. G | 13' | 0.8 | 0.9 | 0.8 |
| Sta. 218+04 Lt. G | 12' | 1.1 | 0.9 | 1.0 |
| Sta. 218+44 Rt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 223+17 Rt. G | 18' | 2.6 | 1.1 | 2.0 |
| Sta. 229+58 Rt. G | 15' | 2.0 | 1.0 | 1.5 |
| Sta. 233+85 Lt. G | 12' | 6.8 | 0.9 | 3.8 |
| Sta. 254+84 Lt. G | 15' | 1.6 | 1.0 | 1.3 |
| Sta. 263+00 Rt. G | 14' | 1.9 | 1.0 | 1.5 |
| Sta. 266+11 Rt. G | 25' | 1.6 | 1.3 | 1.7 |
| Sta. 266+54 Lt. G | 12' | 1.1 | 0.9 | 1.0 |
| Sta. 267+17 Lt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 269+50 Lt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 269+95 Rt. G | 22' | 1.5 | 1.2 | 1.5 |
| Sta. 276+94 Lt. G | 10' | 2.0 | 0.8 | 1.3 |
| Sta. 277+53 Rt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 293+85 Lt. G | 22' | 1.5 | 1.2 | 1.5 |
| Sta. 307+50 Lt. G | 14' | 1.1 | 1.0 | 1.1 |
| Sta. 315+82 Lt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 317+20 Lt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 327+15 Rt. G | 16' | 2.5 | 1.0 | 1.8 |
| Sta. 347+97 Rt. G | 12' | 0.7 | 0.9 | 0.8 |
| Sta. 348+42 Lt. G | 10' | 3.0 | 0.8 | 1.8 |
| Sta. 348+77 Rt. G | 10' | 1.0 | 0.8 | 0.9 |
| Sta. 350+05 Rt. G | 10' | 1.4 | 0.8 | 1.0 |
| Sta. 351+70 Rt. G | 10' | 0.7 | 0.8 | 0.7 |
| Sta. 354+38 Rt. G | 10' | 1.4 | 0.8 | 1.0 |
| Sta. 355+18 Rt. G | 18' | 3.0 | 1.1 | 2.2 |
| Sta. 355+25 Lt. G | 18' | 1.3 | 1.1 | 1.3 |
| Sta. 357+87 Lt. G | 20' | 0.9 | 1.2 | 1.1 |
| Sta. 358+16 Rt. G | 20' | 1.8 | 1.2 | 1.6 |
| Sta. 360+15 Lt. G | 18' | 0.9 | 1.1 | 1.1 |
| Sta. 362+05 Rt. G | 14' | 0.7 | 1.0 | 0.9 |
| Sta. 362+69 Rt. G | 10' | 0.7 | 0.8 | 0.7 |
| Sta. 363+20 Rt. G | 10' | 0.7 | 0.8 | 0.7 |
| Sta. 364+58 Rt. G | 42' | 1.4 | 1.9 | 2.1 |
| Sta. 366+03 Rt. G | 14' | 0.7 | 1.0 | 0.9 |
| Sta. 368+66 Rt. G | 10' | 1.4 | 0.8 | 1.0 |
| Sta. 370+17 Rt. G | 12' | 1.4 | 0.9 | 1.2 |
| Totals | | 64.5 | 40.5 | 51.5 |

B = Bituminous Surface
G = Gravel Surface

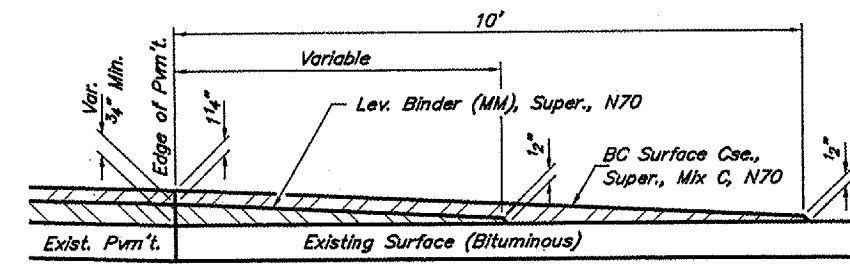
NOTE: Where bituminous material is to be placed, the existing surface shall be primed with Bituminous Mat's (Pr. Ct.) at 0.10 gal./s.y. and Aggregate (Pr. Ct.) at 3 lbs./s.y.



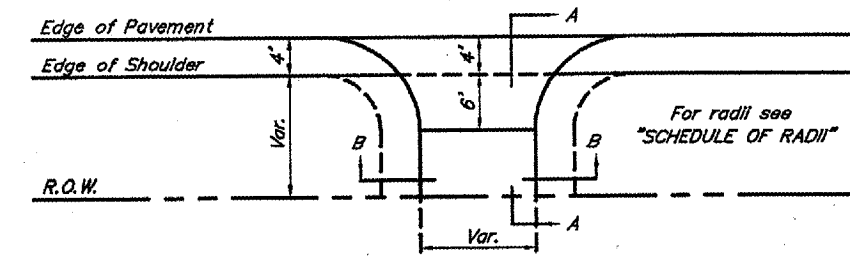
SECTION A-A FIELD ENTRANCE
(Locations to be determined in the field by the Engineer)



SECTION A-A PRIVATE ENTRANCE - GRAVEL



SECTION A-A PRIVATE ENTRANCE - BITUMINOUS

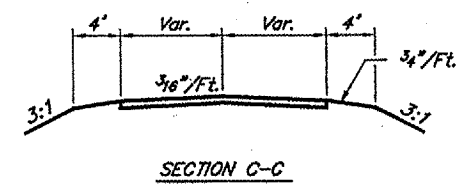


TYPICAL ENTRANCE DETAILS

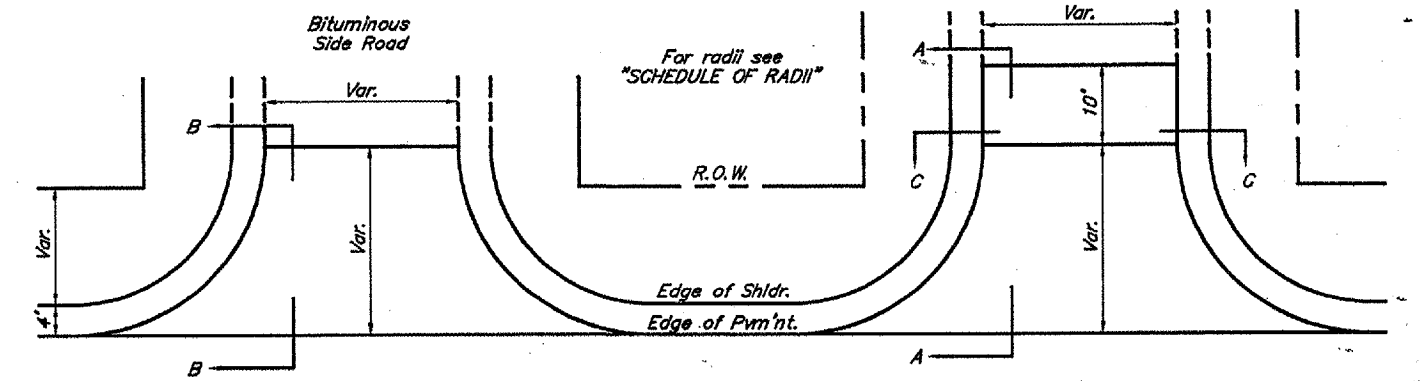
| SCHEDULE OF SIDE ROADS | | | | |
|------------------------|-------|--------------|--------------|-------------|
| Location | Width | Binder Tons | Surface Tons | Agg. Tons |
| Sta. 223+23 Lt. G | 18' | 4.6 | 5.8 | 2.3 |
| Sta. 250+47 Lt. G | 16' | 6.4 | 5.4 | 2.0 |
| Sta. 250+65 Rt. G | 16' | 6.4 | 5.4 | 2.0 |
| Sta. 264+53 Lt. G | 19' | 9.5 | 6.0 | 2.4 |
| Sta. 264+53 Rt. G | 21' | 7.6 | 6.4 | 2.7 |
| Sta. 345+00 Lt. G | 16' | 29.9 | 9.3 | 3.5 |
| Sta. 352+94 Lt. G | 16' | 8.5 | 5.4 | 2.0 |
| Sta. 353+04 Rt. B | 16' | 2.5 | 4.6 | - |
| Sta. 355+76 Rt. G | 18' | 25.3 | 5.8 | 2.3 |
| Sta. 355+83 Rt. B | 18' | 13.0 | 5.4 | - |
| Sta. 359+10 Lt. G | 18' | 4.6 | 5.8 | 2.3 |
| Sta. 359+13 Lt. B | 22' | 1.6 | 5.3 | - |
| Sta. 361+67 Rt. B | 18' | 1.3 | 4.8 | - |
| Totals | | 121.2 | 75.4 | 21.5 |

B = Bituminous Surface
G = Gravel Surface

NOTE: Where bituminous material is to be placed, the existing surface shall be primed with Bituminous Mat's (Pr. Ct.) at 0.10 gal./s.y. and Aggregate (Pr. Ct.) at 3 lbs./s.y.



SECTION C-C



TYPICAL SIDE ROAD DETAILS

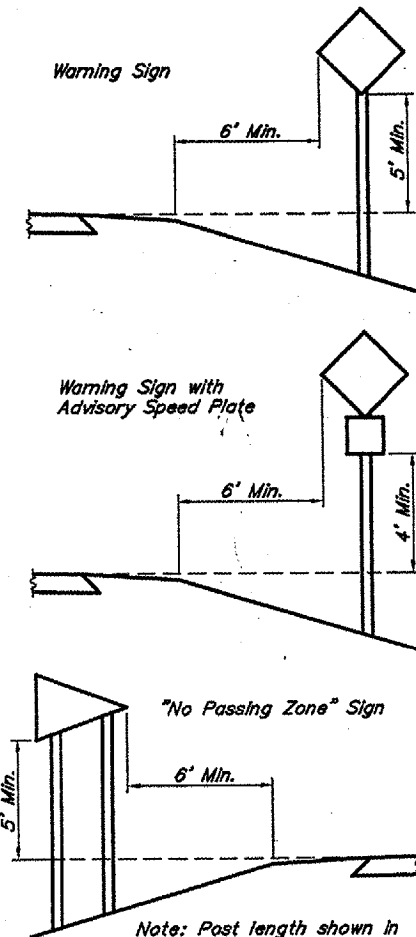
| Angle of Intersection | Side Road | | Private Entrance | |
|-----------------------|-----------|-----------|------------------|-----------|
| | Acute L. | Obtuse L. | Acute L. | Obtuse L. |
| 90° - 80° | 25' | 25' | 15' | 15' |
| 79° - 70° | 25' | 40' | 15' | 25' |
| 69° - 60° | 25' | 60' | 15' | 35' |
| 59° - 50° | 20' | 75' | 10' | 40' |
| 49° - 40° | 20' | 100' | 10' | 60' |
| 39° - 30° | 15' | 150' | 10' | 100' |

TYPICAL SIDE ROAD AND ENTRANCE DETAILS
FAS ROUTE 931
SECTION 02-00058-00-RS
PROJECT NO. RS-931 (109)
JOHNSON COUNTY

| | | | | |
|--------------------------|----------------|---------|--------------------|-----------|
| ROUTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAS 931 | 02-00058-00-RS | JOHNSON | 4 | 4 |
| PROJECT NO. RS-931 (109) | | | CONTRACT NO. 99211 | |

| SCHEDULE OF SIGNS | | | | |
|-------------------|----------------|-----------|---------|-------------|
| Location | Name | Signs | | Post Length |
| | | No. | Sq. Ft. | |
| Sta. 236+50 Lt. | HILL | W7-1 | 6.25 | 16.0 |
| Sta. 257+00 Lt. | CROSS ROAD | W2-1 | 6.25 | 16.0 |
| Sta. 259+50 Rt. | CROSS ROAD | W2-1 | 6.25 | 16.0 |
| Sta. 310+00 Rt. | HILL | W7-1 | 6.25 | 16.0 |
| Sta. 338+00 Rt. | CURVE | W1-2R | 6.25 | 16.5 |
| | ADVISORY SPEED | W13-1(45) | 2.25 | - |
| Sta. 340+00 Rt. | SIDE ROAD 45° | W2-3 | 6.25 | 16.0 |
| Sta. 350+00 Lt. | SIDE ROAD 45° | W2-3 | 6.25 | 16.0 |
| Sta. 351+30 Rt. | REVERSE TURN | W1-3L | 6.25 | 16.5 |
| | ADVISORY SPEED | W13-1(15) | 2.25 | - |
| Sta. 352+14 Lt. | CURVE | W1-2L | 6.25 | 16.5 |
| | ADVISORY SPEED | W13-1(45) | 2.25 | - |
| Sta. 365+28 Lt. | REVERSE TURN | W1-3L | 6.25 | 16.5 |
| | ADVISORY SPEED | W13-1(15) | 2.25 | - |
| Various (16)* | NO PASSING | W14-3 | 88.80 | 512.0 |
| TOTALS | | | 160.30 | 674.0 |

* See Schedule of "No Passing Zones" for sign locations. Quantities shown are totals for all "No Passing Zone" signs required.



Note: Post length shown in schedule is total for two posts.

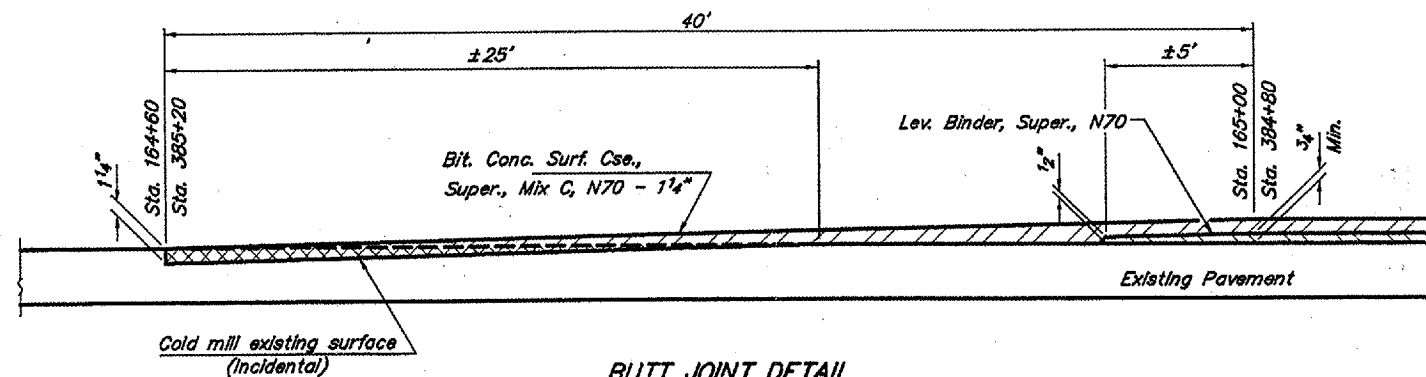
SIGN SCHEDULE & MOUNTING DETAIL

| SCHEDULE OF PAVEMENT MARKING LINE 4" (LIN. FT.) | | | |
|---|----------------------------|-------------------------|---------------------------|
| Location | Centerline (Yellow Dashed) | Edge Line (White Solid) | No Passing (Yellow Solid) |
| Sta. 164+60 to Sta. 385+20 | 4,800 | 43,235 | 18,125 |

See schedule for limits of "No Passing Zones".

| SCHEDULE OF "NO PASSING ZONES" | | | |
|--------------------------------|--------|---|--------|
| EAST BOUND LANE | | WEST BOUND LANE | |
| Location | Length | Location | Length |
| Sta. 168+75' to Sta. 176+50 | 775' | Sta. 176+50 to Sta. 184+50 ¹ | 800' |
| Sta. 199+50' to Sta. 210+50 | 1,100' | Sta. 207+50 to Sta. 218+50 ¹ | 1,100' |
| Sta. 222+25' to Sta. 233+75 | 1,150' | Sta. 230+25 to Sta. 241+75 ¹ | 1,150' |
| Sta. 254+50' to Sta. 260+75 | 625' | Sta. 262+50 to Sta. 268+50 ¹ | 600' |
| Sta. 268+50' to Sta. 274+00 | 550' | Sta. 276+50 to Sta. 281+50 ¹ | 500' |
| Sta. 280+25' to Sta. 297+50 | 1,725' | Sta. 288+00 to Sta. 305+50 ¹ | 1,750' |
| Sta. 308+25' to Sta. 316+50 | 825' | Sta. 316+25 to Sta. 324+50 ¹ | 825' |
| Sta. 335+00' to Sta. 359+25 | 2,425' | Sta. 345+00 to Sta. 367+25 ¹ | 2,225' |
| TOTALS | 9,175' | | 8,950' |

¹ Denotes location of "No Passing Zone" signs to be erected in accordance with Sign Schedule & Mounting Detail. Each location will have one sign of 5.55 Sq. Ft. and two posts with a combined length of 32.0 Ft.



BUTT JOINT DETAIL

NOTE: Exist. surface to be primed with Bit. Mat's (Pr. Ct.) at 0.10 gal./s.y. & Aggregate (Pr. Ct.) at 3 lbs./s.y.

MISCELLANEOUS DETAILS
 FAS ROUTE 931
 SECTION 02-00058-00-RS
 PROJECT NO. RS-931 (109)
 JOHNSON COUNTY