

| F.A.S. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|----------|----------------------|-----------|
| 813 | 02-00057-00-RS | EDWARDS | 4 | 1 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | BONEGAP ROAD (NORTH) | |

LEC JOB # H041019ED
CONTRACT NO. 95447

323 W. 3RD ST.
P.O. BOX 160
MT. CARMEL, IL
62863
PHONE:
(618)-262-8651
FAX:
(618)-263-3327

405 W. STATE ST.
SUITE 1
PRINCETON, IN
47670
PHONE:
(812)-386-7611
FAX:
(812)-385-2812



PROFESSIONAL
DESIGN FIRM
LAND SURVEY &
ENGINEERING
CORPORATION
184-00087
(62-032433)(35-002769)



NAME
MICHAEL L. G. II
SIGNATURE
10-27-05
DATE
11-30-05
EXPIRES

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED

FEDERAL-AID SECONDARY PROJECT

F.A.S. 813 (CH 1) SECTION 02-00057-00-RS EDWARDS COUNTY

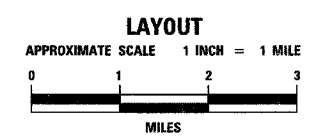
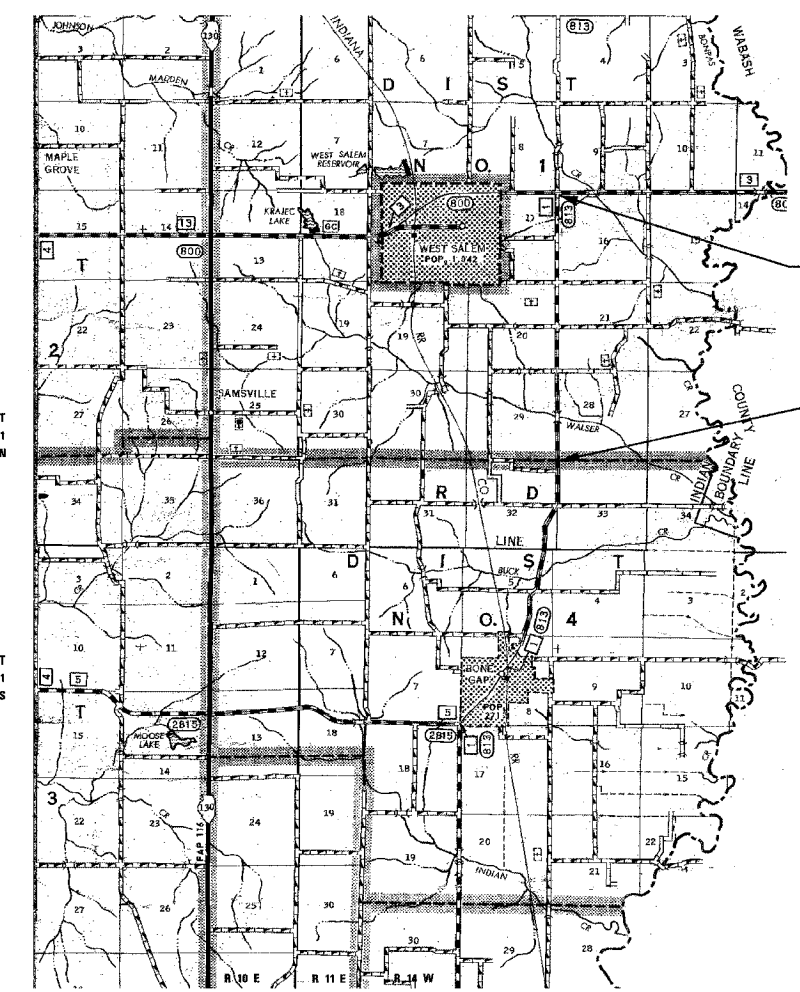
PROJECT RS-813(109) JOB NO. C-97-016-06

INDEX OF SHEETS

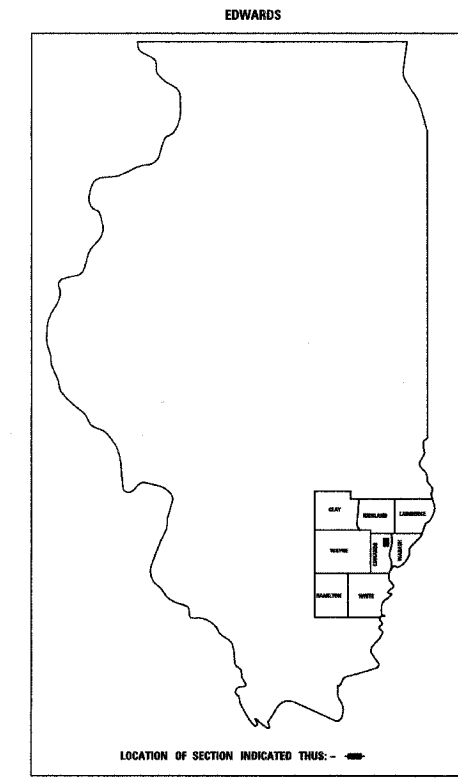
| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 | TITLE SHEET |
| 2 | TYPICAL SECTIONS, SUMMARY OF QUANTITIES, GENERAL NOTES, MISCELLANEOUS DETAILS |
| 3 | DETAILS OF INTERSECTIONS, AND SIDEROADS |
| 4 | SCHEDULES |

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 4

| | |
|-----------|--|
| 000001-04 | STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS |
| 406201 | MAILBOX TURNOUT |
| 701006-02 | OFF-RD OPERATIONS, 2-L, 2-W, 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH |
| 701301-02 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-01 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPH |
| 701311-02 | LANE CLOSURE, 2L, 2W, MOVING DAY OPERATIONS |
| 701336-04 | LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS ≥ 45 MPH |
| 702001-05 | TRAFFIC CONTROL DEVICES |
| 780001-01 | TYPICAL PAVEMENT MARKINGS |
| 781001-02 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |



| | | |
|--------------|-----------|--------------|
| GROSS LENGTH | 16,000 FT | 3.0303 MILES |
| OMISSION | 0 FT | 0 MILES |
| NET LENGTH | 16,000 FT | 3.0303 MILES |



PLANS
REVIEWED & APPROVED
[Signature]
COUNTY ENGINEER
10-27-05
DATE

APPROVED *[Signature]* 10-27 20 05
COUNTY ENGINEER

PASSED *[Signature]* 12-23 20 05
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review *[Signature]* 12-23 20 05
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 95447
DESIGN CLASS - MAJOR COLLECTOR
CURRENT A.D.T. = 500
Speed = 50 MPH

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

| F.A.S. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------------|---------------|----------|----------------------|-----------|
| 813 | 02-0087-00-RS | EDWARDS | 4 | 2 |
| FEB ROAD DIST. NO. 7 | | ILLINOIS | BONEGAP ROAD (NORTH) | |

LEC JOB # 004101020
 CONTRACT NO. 95447

323 W. 3RD ST.
 P.O. BOX 160
 MT. CARMEL, IL 62863
 PHONE: (618)-262-8651
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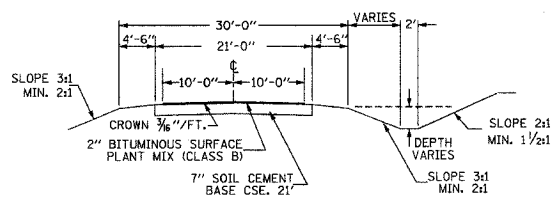


PROFESSIONAL DESIGN FIRM
 LAND SURVEY &
 PROFESSIONAL ENGINEERING CORPORATION

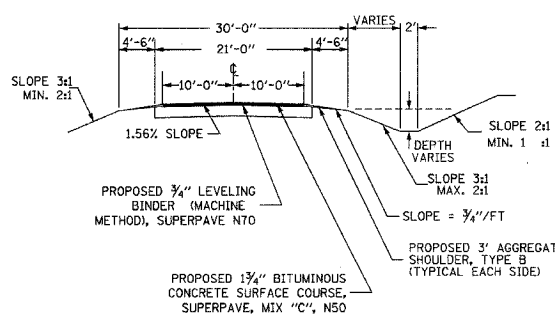


Michael L. Gillingham
 SUSTIN K. BUNTING
 NAME
 Signature
 DATE 10-27-05
 11-30-05
 EXPIRES

TYPICAL CROSS SECTION EXISTING



TYPICAL CROSS SECTION PROPOSED



GENERAL NOTES:

THIS SECTION CONSISTS OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL, LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70, AND BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, AGGREGATE SHOULDERS, AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE PROJECT, ALL IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002.

THE EXISTING GRADE, ALIGNMENT, DRAINAGE STRUCTURES, BASE AND SURFACE WERE CONSTRUCTED UNDER SECTIONS 26-G AND 26-Q AND SHALL REMAIN IN PLACE. ALL STATIONS REFERRED TO IN THE PLANS AND PROPOSAL ARE REFERENCED TO THE ABOVE MENTIONED SECTIONS.

| | |
|---------------------------------|---------|
| MAXIMUM PERCENT OF GRADE | -4.00 % |
| MINIMUM STOPPING SIGHT DISTANCE | 525 FT |
| DESIGN SPEED | 50 MPH |
| CURRENT ADT | 500 VPD |
| DESIGN ADT (20 YEAR) | 600 VPD |

THE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 SHALL BE PLACED IN ONE LIFT WITH A MINIMUM THICKNESS OF 1 1/4".

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 ALLOWS 108.9 TON FOR THE INTERSECTIONS, SIDEROADS, AND END TAPERS; 73.8 TON FOR THE ENTRANCES; 10.8 TON FOR THE MAILBOX TURNOUTS, AND 3461.9 TON FOR THE 1 1/4" BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50.

THE QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES FOR LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70 ALLOWS 558 TON FOR CROWN CORRECTION AND 1484 TON FOR THE 3/4" LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70.

A BITUMINOUS TAPER OF 0" TO 2 1/2" SHALL BE CONSTRUCTED FROM STATION 0+00 TO STATION 0+50 AND 2 1/2" TO 0" FROM STATION 159+50 TO STATION 160+00.

THE FOLLOWING RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

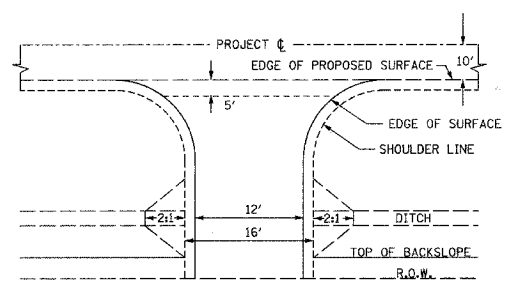
| | |
|----------------------------------|-------------------------|
| AGGREGATE SHOULDERS TY. B | 1.8 T / CU YD |
| BITUMINOUS CONCRETE | 0.0560 T / SQ YD * INCH |
| AGGREGATE PRIME COAT | 0.001 T / SQ YD |
| BITUMINOUS MATERIAL (PRIME COAT) | 0.05 GAL / SQ YD |

SUMMARY OF QUANTITIES

| QUANTITY | UNIT | ITEM | 1000 CODE NUMBER |
|----------|--------|---|------------------|
| 1600.00 | FOOT | SHORT-TERM PAVEMENT MARKING REMOVAL | XX003140 |
| 75.00 | TON | PAVEMENT REMOVAL AND REPLACEMENT (SPECIAL) | XX127400 |
| 3655.00 | TON | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 | X4066414 |
| 2042.00 | TON | LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70 | X4066770 |
| 2142.00 | GALLON | BITUMINOUS MATERIALS (PRIME COAT) | 40600100 |
| 43.00 | TON | AGGREGATE (PRIME COAT) | 40600300 |
| 1153.00 | TON | AGGREGATE SHOULDERS, TYPE B | 48101200 |
| 1.00 | L SUM | MOBILIZATION | 67100100 |
| 1.00 | L SUM | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | 70100460 |
| 1.00 | L SUM | TRAFFIC CONTROL AND PROTECTION, STANDARD 701336 | 70100600 |
| 3200.00 | FOOT | SHORT-TERM PAVEMENT MARKING | 70300100 |
| 37682.00 | FOOT | PAINT PAVEMENT MARKING-LINE 4" | 78001110 Δ |
| 200.00 | EACH | RAISED REFLECTIVE PAVEMENT MARKER | 78100100 Δ |

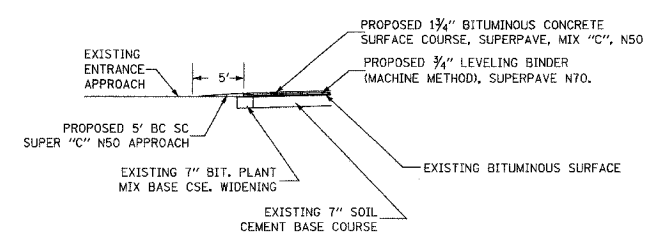
Δ SPECIALTY ITEMS

DETAIL OF PRIVATE AND FIELD ENTRANCES

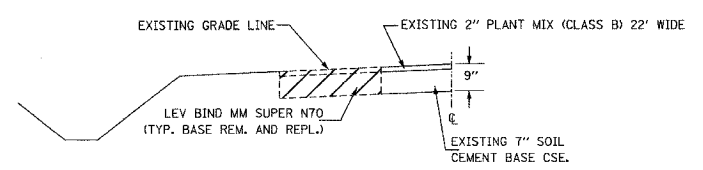


NOTE: THE 5' AREA FROM THE EDGE OF SURFACE, AS SHOWN ABOVE, SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 FOR THE PRIVATE ENTRANCES AND THE FIELD ENTRANCES. THIS QUANTITY IS INCLUDED IN THE QUANTITY FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50.

PRIVATE & FIELD ENTRANCE APPROACH DETAIL

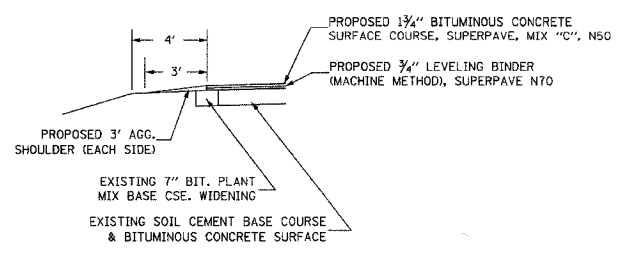


DETAIL OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL



NOTE: IN THE TYPICAL DETAIL ABOVE THE DISTANCE FROM THE CENTERLINE LEFT OR RIGHT AND THE WIDTH OF PAVEMENT REMOVAL AND REPLACEMENT VARIES. SEE SCHEDULE OF PAVEMENT REMOVAL AND REPLACEMENT SPECIAL FOR PROPOSED LOCATIONS.

AGGREGATE SHOULDER DETAIL



UTILITIES

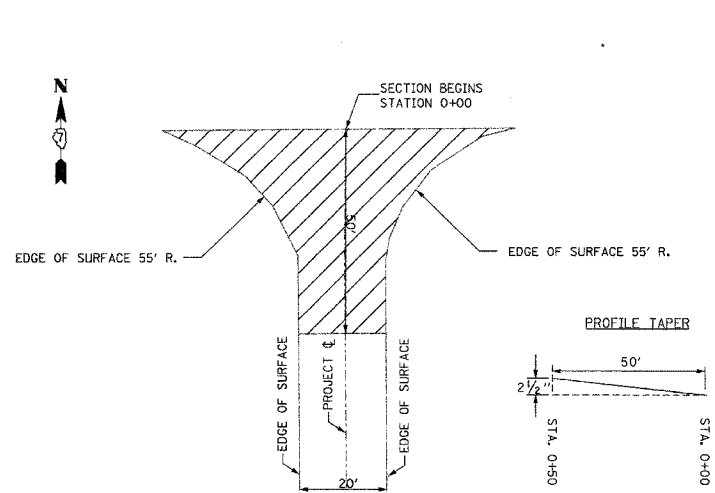
J.L.L.E.
 800-892-0123

DETAILS OF SURFING AT INTERSECTIONS AND SIDEROADS

| F.A.S. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| 813 | 02-00057-00-RS | EDWARDS | 4 | 3 |
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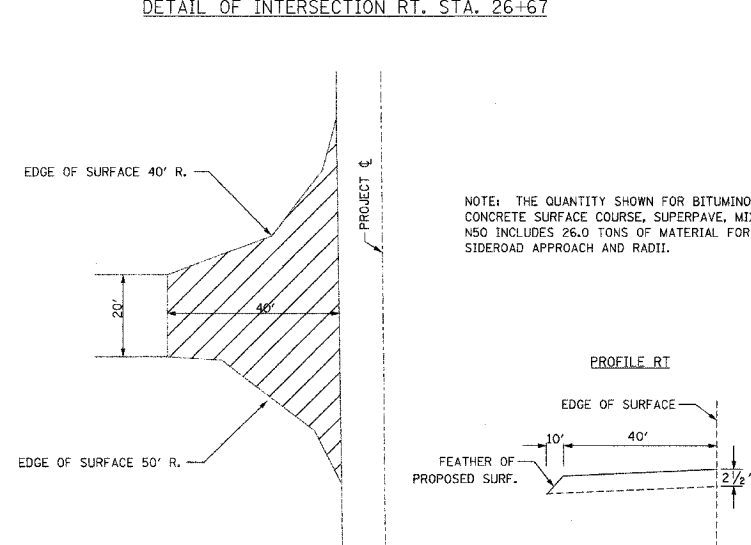
LEC JOB # H041019ED
 CONTRACT NO. 95447

DETAIL OF TAPER STA. 0+00 TO STA 0+50



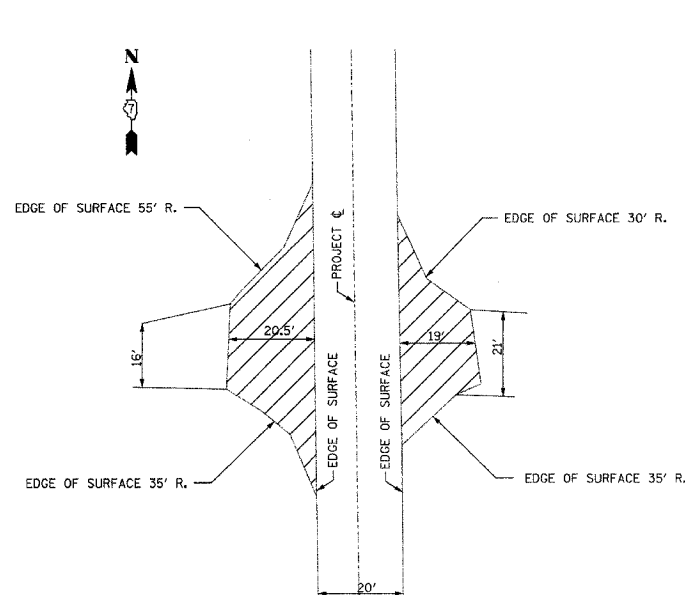
NOTE: THE QUANTITY SHOWN FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSQ INCLUDES 23.4 TONS OF MATERIAL FOR THE TAPER FROM STATION 0+0 TO STATION 0+50.

DETAIL OF INTERSECTION RT. STA. 26+67



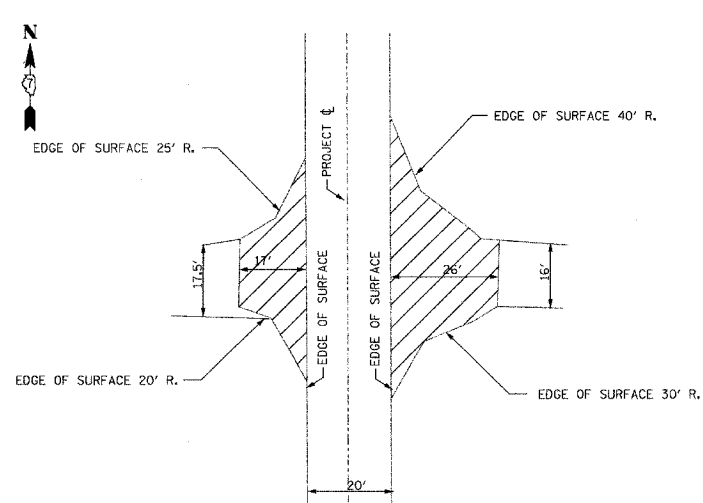
NOTE: THE QUANTITY SHOWN FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSQ INCLUDES 26.0 TONS OF MATERIAL FOR THE SIDEROAD APPROACH AND RADII.

DETAIL OF INTERSECTION RT. & LT. STA. 53+43



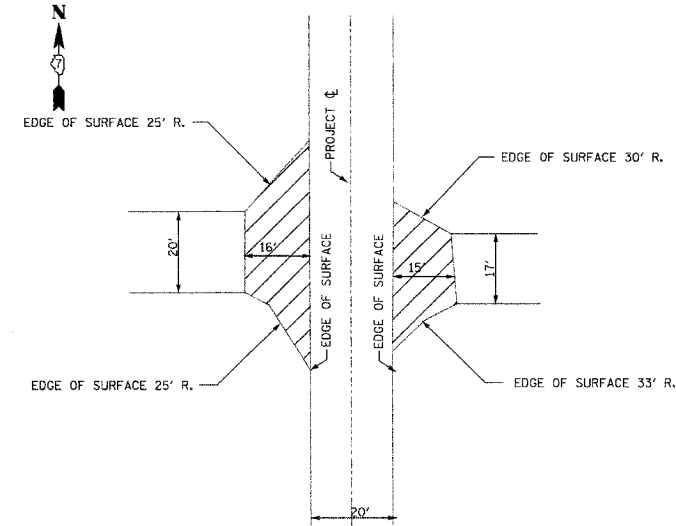
NOTE: THE QUANTITY SHOWN FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSQ INCLUDES 9.4 TONS OF MATERIAL FOR THE SIDEROAD LT. APPROACH AND RADII AND 13.8 TONS OF MATERIAL FOR THE SIDEROAD RT. APPROACH AND RADII.

DETAIL OF INTERSECTION RT. & LT. STA. 80+00

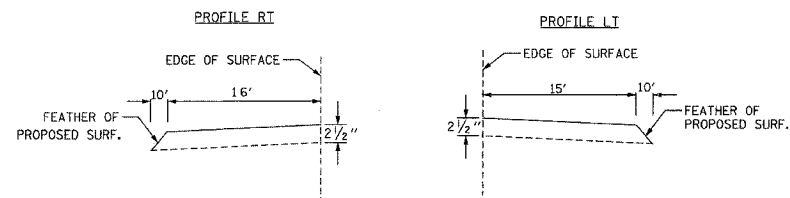
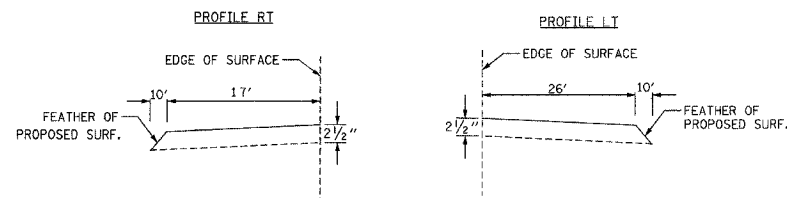
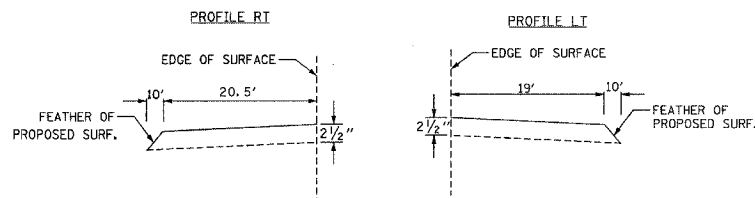


NOTE: THE QUANTITY SHOWN FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSQ INCLUDES 13.8 TONS OF MATERIAL FOR THE SIDEROAD LT. APPROACH AND RADII AND 7.6 TONS OF MATERIAL FOR THE SIDEROAD RT. APPROACH AND RADII.

DETAIL OF INTERSECTION RT. & LT. STA. 106+77



NOTE: THE QUANTITY SHOWN FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", NSQ INCLUDES 6.0 TONS OF MATERIAL FOR THE SIDEROAD LT. APPROACH AND RADII AND 8.9 TONS OF MATERIAL FOR THE SIDEROAD RT. APPROACH AND RADII.



PROFESSIONAL DESIGN FIRM
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 PROFESSIONAL
 ENGINEERING
 CORPORATION

184-000887
 182-000887



MICHAEL L. GILT
 JUSTIN L. GUNTING

NAME
 SIGNATURE

DATE
 11-30-05

EXPIRES

