INDEX OF SHEETS

LIST OF STANDARDS

702001-05 TRAFFIC CONTROL DEVICES

PROJECT LOCATION

REGIONAL MAP

JOB NO. C-94-080-03

CONTRACT NO. 89295

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- 2. TYPICAL SECTIONS, DETAILS, AND GENERAL NOTES

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MAILBOX TÜRNOUT FOR LOCAL ROADS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

McDONOUGH COUNTY SHEET NO. F.A.S. ROUTE 443 TOTAL SHEETS PROJECT NO. RS-443(108) SECTION 02-00098-00-RS CONTRACT NO. 89295

PLANS FOR

PROPOSED LOCAL AGENCY IMPROVEMENT SURFACE TRANSPORTATION RURAL

McDONOUGH COUNTY F.A.S. ROUTE 443 - COUNTY HIGHWAY 16 ST. FRANCIS BLACKTOP SECTION 02-00098-00-RS JOB NO. C-94-080-03

PROJECT NO. RS-0443(108)

R 2 W R 3 W PROPOSED IMPROVEMENT BEGINS AT STATION 366+00.00 PROPOSED IMPROVEMENT ENDS AT STATION 529+00.00

CALL JULIE TOLL FREE 1(800)892-0123 OPERATES 24 HOURS A DAY 365 DAYS A YEAR



48 HOURS BEFORE

LOCATION MAP

APPROXIMATE SCALE:

TOTAL & NET LENGTH OF PROJECT: 16,300.00 FT = 3.087 MI. ROADWAY CLASSIFICATION: MAJOR COLLECTOR DESIGN GUIDELINES: RURAL DESIGN SPEED = 55 M.P.H. ADT = 600/800 (YEAR 2002)VARIANCES GRANTED - NONE COMMITMENTS - NONE



2/14/05 DATE

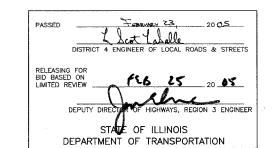
SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE 1000-2A

X40665 1 4	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	4,597.0	TON
X4066654	POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	8,489.0	TON
40200800	AGGREGATE SURFACE COURSE, TYPE B	300.0	TON
40600100	BITUMINOUS MATERIALS (PRIME COAT)	7,969.0	GALLON
40600300	AGGREGATE (PRIME COAT)	159.0	TON
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	1,198.0	SQ YD
44300300	AREA REFLECTIVE CRACK CONTROL, TREATMENT	39,527.0	SQ YD
	SYSTEM A		
48101200	AGGREGATE SHOULDERS, TYPE B	2,803.0	TON
70101700	TRAFFIC CONTROL AND PROTECTION	1.0	L SUM
70300100	SHORT-TERM PAVEMENT MARKING	3,260.0	FOOT
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	538.0	SQ FT
78001110	PAINT PAVEMENT MARKING LINE 4"	44,733.0	FOOT

QC\QA BITUMINOUS SUPERPAVE PROJECT

PLANS PREPARED BY THE McDONOUGH COUNTY HIGHWAY DEPARTMENT MACOMB, ILLINOIS



QUANTITIES NOT OTHERWISE SHOWN ON THE PLANS

X4066514: POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C" N50 APPLIED AT A RATE OF 112 LB PER SQ YD PER INCH

MAINLINE - STA. 366+00.00 TO STA. 529+00.00 [(16,300' x 22.0')/9 = 39,84.4 SQ YD x 112 x 1.5"]/2000 = 3,346.9 TON 4 MAILBOX TURNOUTS © 2.4 TONS EACH = 9.6 TON 5 SIDE ROAD INTERSECTIONS © 34.3 TONS EACH = 171.5 TON 5 PRIVATE ENTRANCES @ 1.6 TONS EACH = 8.0 TON

TOTAL = 3,346.9.0 TON +9.6 TON + 171.5 TON + 8.0 TON = 3,536.0 TON 3,536.0 x 1.30 (ADD 30% FOR RUTTING) = 4,596.8 TON

PAY QUANTITY = 4,597.0 TON

X4066654: POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50 APPLIED AT A RATE OF 112 LB PER SQ YD PER INCH

(BRIDGE OMISSION FROM STA. 409+75.00 TO STA. 411+05.00 FOR BINDER COURSE ONLY)

MAINLINE - STA. 366+00.00 TO STA. 409+75.00 AND FROM STA. 411+05.00 TO STA. 529+00.00 $[(16,170.0 \times 22.5')/9 = 40,425.0 \text{ SQ YD } \times 112.0 \times 2.50'']/2000 = 5,659.5 \text{ TON}$

TOTAL = 5,659.5 TON x 1.50 (ADD 50% FOR RUTTING) = 8,489.3 TON

PAY QUANTITY = 8.489.0 TON

40600100: BITUMINOUS MATERIALS (PRIME COAT) APPLIED AT A RATE OF 0.10 GAL PER SO YD

MAINLINE - STA. 366+00.00 TO STA. 529+00.00

(16,300' x 22.0')/9 = 39,844.4 SQ YD x 0.10 GAL/SQ YD x 2 LIFTS = 7,968.9 GALLON PAY QUANTITY = 7,969.0 GALLON

40600300: AGGREGATE (PRIME COAT) APPLIED AT A RATE OF 4 LB PER SQ YD

MAINLINE - STA. 366+00.00 TO STA. 529+00.00

[(16,300' x 22.0')/9 = 39,844.4 SQ YD x 4 LB/SQ YD x 2 LIFTS]/2000 = 159.4 TON

48101200: AGGREGATE SHOULDERS, TYPE B
APPLIED AT A RATE OF 2.0 TON PER CU YD

BRIDGE OMISSION FROM STA. 409+75.00 TO STA. 411+05.00

MAINLINE - STA. 366+00.00 TO STA. 409+75.00 AND FROM STA. 411+05.00 TO STA. 529+00.00 [(16,170' x 3.0' x 0.3' DEPTH)/27 = 539 CU YD x 2 TON/CU YD = 1,078.0 TON x 2 SIDES = 2,156.0 TON 2,156.0 TON x 1.30 (ADD 30% LOW SHOULDERS) = 2,802.8 TON

PAY QUANTITY = 2.803.0 TON

40200800: AGGREGATE SURFACE COURSE, TYPE B
30 PRIVATE OR FIELD ENTRANCES • 10.0 TON EACH = 300.0 TON

PAY QUANTITY = 300.0 TON

70300100: SHORT-TERM PAVEMENT MARKING

MAINLINE - STA. 366+00.00 TO STA. 529+00.00 (USE 4' STRIPE WITH A 36' SPACE) 16,300 FT/40 FT = 407.5 STRIPES x 4' = 1,630.0 FT x 2 LIFTS = 3,260.0 FEET

PAY QUANTITY = 3.260.0 FOOT

78001110: PAINT PAVEMENT MARKING LINE 4

MAINLINE - STA. 366+00.00 TO STA. 529+00.00

NO PASSING ZONES: (4" YELLOW) STA. 385+03 LT. TO STA. 396+04 LT. = 1,101.0 FT. STA. 403+40 LT. TO STA. 411+14 LT. = 774.0 FT.

STA. 421+46 LT. TO STA. 431+31 LT. = 985.0 FT. STA. 440+80 LT. TO STA. 452+94 LT. = 1,214.0 FT. STA. 375+94 RT. TO STA. 387+05 RT. = 1,111.0 FT.

STA. 394+93 RT. TO STA. 401+73 RT. = 680.0 FT. STA. 412+36 RT. TO STA. 422+91 RT. = 1,055.0 FT.

STA. 431+54 RT. TO STA. 445+15 RT. = 1,361.0 FT. TOTAL NO PASSING ZONES = 8.281.0 FT.

SKIP-DASH CENTERLINE (4" YELLOW) 16,300.0 FT. - 893.0 FT. (DOUBLE NO PASSING ZONES) = 15,407.0 FT. x 0.25 (10' DASH & 30' SKIP) = 3,852.0 FT.

TOTAL NO PASSING ZONES

= 3.852.0 FT.

EDGE STRIPING (4" WHITE) 16,300.0 FT. x 2 SIDES = 32,600 FT.

TOTAL NO PASSING ZONES = 32,600.0 FT.

TOTAL = 8,281.0 + 3,852.0 + 32,600.0 = 44,733.0 FT.

PAY QUANTITY = 44,733.0 FOOT

70301000: WORK ZONE PAVEMENT MARKING REMOVAL 1630.0 FT x 0.33 FT. = 537.9 SQ. FT.

PAY QUANTITY = 538.0 SQ. FT.

44300300: AREA REFLECTIVE CRACK CONTROL TREATMENT SYSTEM A

STA. 366+00 TO STA. 409+75 = (4,375.0 FT. x 22')/9 = 10,694.4 SQ. YD. STA. 411+05 TO STA. 529+00 = (11,795.0 FT. x 22')/9 = 28,832.2 SQ. YD.

TOTAL = 39.526.6 SQ. YD.

PAY QUANTITY = 39,527.0 SQ. YD.

40600980: BITUMINOUS SURFACE REMOVAL - BUTT JOINT

STA. 366+00 (B.O.P.) TO STA. 367+20 = (120.0' x 22.0')/9 = 293.3 SQ. YD.

STA. 367+45 LT. (INDUSTRY ROAD) = (50.0° x 22.0°)/9 = 122.2 SQ. YD. STA. 367+45 RT. (PLYMOUTH ROAD) = (50.0° x 22.0°)/9 = 122.2 SQ. YD. STA. 409+00 TO STA. 409+075 (BK ABUT) = (75.0° x 22.0°)/9 = 183.3 SQ. YD. STA. 411+05 (BK ABUT) TO STA. 411+80 = (75.0° x 22.0°)/9 = 183.3 SQ. YD.

STA. 527+80 TO STA. 529+00 (E.O.P.) = $(120.0^{\circ} \times 22.0^{\circ})/9 = 293.3$ SQ. YD. TOTAL = 1197.6 SO. YD.

PAY QUANTITY = 1.198.0 SQ. YD.

GENERAL NOTES

1. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

2. BITUMINOUS MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE
AC/PG:	SBS-PG70-28	SBS-PG70-28
RAP %: (MAX)	0%	0%
DESIGN AIR VOIDS:	4.2% 9 Ndes = 50	4.2% 6 Ndes = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 or IL 12.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE D (SEE NOTE)	N/A

NOTE: DOLOMITE ONLY IS TO BE USED FOR THE FRICTION AGGREGATE IN THE

3. PAVEMENT DESIGN: STA 366+00.00 TO STA 529+00.00

AVERAGE DAILY TRAFFIC (ADT) = 800 (YEAR COUNTED 2002)

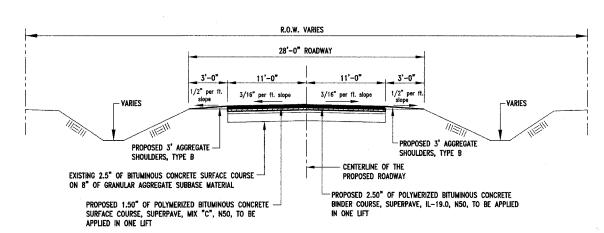
80.000 LB TRUCK ROUTE PV = 94.00%, SU = 2.00%, MU = 4.00%

DESIGN PERIOD = 20 YEARS

CLASS III ROAD

4. THERE IS TO BE AN OMISSION IN THE PROPOSED BITUMINOUS CONCRETE BINDER CONCRETE FROM STATION 409+75.00 TO STATION 411+05.00, FOR THE EXISTING BRIDGE.

McDONOUGH COUNTY SHEET NO. FAS ROUTE 443 TOTAL SHEETS PROJECT NO. RS-443(108) SECTION 02-00098-00-RS CONTRACT NO. 89295



TYPICAL SECTION THROUGH THE PROPOSED ROADWAY FROM STATION 366+00.00 TO STATION 409+75.00 AND FROM STATION 411+05.00 TO STATION 529+00.00

NO SCALE

