

**SUMMARY OF QUANTITIES**

Code No.	Description	Unit	Quantity
20200100	EARTH EXCAVATION	Cu. Yd.	807
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	Cu. Yd.	1,000
20800150	TRENCH BACKFILL	Cu. Yd.	150
21400100	GRADING AND SHAPING DITCHES	Foot	632
25000115	SEEDING CLASS 1B	Acres	1.1
25000400	NITROGEN FERTILIZER NUTRIENT	Pound	148
25000500	PHOSPHORUS FERTILIZER NUTRIENT	Pound	89
25000600	POTASSIUM FERTILIZER NUTRIENT	Pound	89
25000700	AGRICULTURAL GROUND LIMESTONE	Ton	2.2
25100115	MULCH, METHOD 2	Acres	1.1
28000300	TEMPORARY DITCH CHECKS	Each	5
28000400	PERIMETER EROSION BARRIER	Foot	714
28000500	INLET AND PIPE PROTECTION	Each	9
28000510	INLET FILTERS	Each	30
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	Sq. Yd.	5,103
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 8"	Sq. Yd.	461
40200800	AGGREGATE SURFACE COURSE, TYPE B	Ton	19
40201000	AGGREGATE FOR TEMPORARY ACCESS	Ton	200
40800100	BITUMINOUS MATERIALS (PRIME COAT)	Gal.	650
40800300	AGGREGATE (PRIME COAT)	Ton	17
40803345	HOT MIX ASPHALT SURFACE COURSE, MIX "D", N90	Ton	798
40800500	INCIDENTAL HOT MIX ASPHALT SURFACING	Ton	73
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	Sq. Yd.	3,888
42001200	PAVEMENT FABRIC	Sq. Yd.	4,350
42001300	PROTECTIVE COAT	Sq. Yd.	5,360
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	Sq. Yd.	45
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	Sq. Yd.	605
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	Sq. Ft.	10,848
42400800	DETECTABLE WARPS	Sq. Ft.	126
44000100	PAVEMENT REMOVAL	Sq. Yd.	4,184
44000155	HOT-MIX SURFACE REMOVAL 1 1/2"	Sq. Yd.	8,497
44000200	DRIVEWAY PAVEMENT REMOVAL	Sq. Yd.	932
44000500	COMBINATION CURB AND GUTTER REMOVAL	Foot	1,426
44000600	SIDEWALK REMOVAL	Sq. Ft.	531
44002000	CONCRETE CURB REMOVAL	Foot	238
44002020	CONCRETE MEDIAN SURFACE REMOVAL	Sq. Yd.	283
44003800	MEDIAN SURFACE REMOVAL AND REPLACEMENT	Sq. Ft.	460
44201076	CLASS B PATCHES, TYPE I	Sq. Yd.	62
44201078	CLASS B PATCHES, TYPE II	Sq. Yd.	70
44201080	CLASS B PATCHES, TYPE III	Sq. Yd.	104
44201082	CLASS B PATCHES, TYPE IV	Sq. Yd.	174
44213100	PAVEMENT FABRIC	Sq. Yd.	723
44213200	SAW CUTS	Foot	4,450
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	Each	2
50105200	REMOVE EXISTING CULVERTS	Foot	600
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	Foot	16
55019700	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 18"	Foot	40
55100500	STORM SEWER REMOVAL 12"	Foot	9
55100900	STORM SEWER REMOVAL 18"	Foot	5
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	Each	9
60239100	INLETS, TYPE A, SPECIAL, TYPE 3 FRAME AND GRATE	Each	7
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	Each	9
60255500	MANHOLES TO BE ADJUSTED	Each	8
60500060	REMOVING INLETS	Each	325
60600905	CONCRETE CURB, TYPE B	Foot	120
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	Foot	3,030
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	Sq. Ft.	11
60623711	CONCRETE MEDIAN	Cu. Yd.	12
60630020	NON-SPECIAL WASTE DISPOSAL	L. Sum	1
60900450	SPECIAL WASTE PLANS AND REPORTS	Cal. Mc.	12
67000400	ENGINEERS FIELD OFFICE, TYPE A	L. Sum	1
67100100	MOBILIZATION	L. Sum	1
70101700	TRAFFIC CONTROL AND PROTECTION	Cal. Da	60
70103815	TRAFFIC CONTROL SURVEILLANCE	Foot	785
70300100	SHORT TERM PAVEMENT MARKING	Sq. Ft.	88
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	Sq. Ft.	12
72000100	SIGN PANEL, TYPE I	Each	2
72000210	METAL POST, TYPE B	Sq. Ft.	281
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	Foot	4,038
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	Foot	597
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	Foot	653
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	Foot	508
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	Foot	676
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS & SYMBOLS	Sq. Ft.	153
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	Foot	3,380
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	Foot	266
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	Foot	170
78100130	RAISED REFLECTIVE PAVEMENT MARKER	Each	117
78300100	PAVEMENT MARKING REMOVAL	Sq. Ft.	526
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	Each	55
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	Foot	28
81400115	HANDHOLE TO BE ADJUSTED	Each	1
81800200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	Foot	26
87301215	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 2C	Foot	876
87301225	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 3C	Foot	935
87502540	TRAFFIC SIGNAL POST, ALUMINUM 10"	Each	4
87800100	CONCRETE FOUNDATION, TYPE A	Foot	12
87900200	DRILL EXISTING HANDHOLE	Each	4
88102810	PEDESTRAIN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	Each	2
88102830	PEDESTRAIN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	Each	2
88600100	DETECTOR LOOP, TYPE 1	Foot	1,724
89602200	MODIFY EXISTING CONTROLLER	Each	1
20017202	OWEL BARS 1-1/2"	Each	446
20075310	RE BARS 3/4"	Each	10
X0000501	SUBGRADE STRENGTHENING AGGREGATE	Ton	2,000
X0000541	EXPLORATORY EXCAVATION	Cu. Yd.	100
X0104100	CONNECTION TO EXISTING MANHOLE	Each	6
X4403300	CONCRETE MEDIAN REMOVAL	Sq. Ft.	41
X7900450	POLYUREA PAVEMENT MARKING TYPE I - CURB	Foot	476
X8980010	ADA PEDESTRAIN PUSH-BUTTON	Each	6
X006767	INLETS, TYPE B, TYPE 3 (SPECIAL) FRAME AND GRATE	Each	4
X006767	INLETS, SET-OVER, TYPE B, TYPE 3 (SPECIAL) FRAME AND GRATE	Each	2
X006768	MANHOLE TO BE ADJUSTED WITH NEW TYPE 3 (SPECIAL) FRAME AND GRATE	Each	6
X006769	MANHOLE, 6" DIAMETER, SET-OVER, TYPE 3, (SPECIAL) FRAME AND GRATE	Each	4
X006770	CLASS B PATCHES (SPECIAL)	Sq. Yd.	14
X006771	CONCRETE MEDIAN SURFACE REMOVAL AND REPLACEMENT	Sq. Ft.	77

\* DENOTES SPECIALTY ITEMS

**GENERAL NOTES**

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 AND THE SPECIAL PROVISIONS OF THE PROJECT CONTRACT.
- INFORMATION ON THE PLANS REGARDING UTILITIES IS TAKEN FROM THE BEST AVAILABLE RECORDS, BUT IS NOT REPRESENTED AS BEING CORRECT OR COMPLETE. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. IN ADVANCE OF CROSSING OVER OR UNDER UTILITIES.
- WHERE POSSIBLE STORM SEWER/UTILITY CONFLICTS EXIST, THE CONTRACTOR SHALL HAVE THE UTILITY COMPANY EXPOSE THEIR LINE TO DETERMINE EXACT LOCATIONS. THIS WORK SHALL BE DONE PRIOR TO THE FABRICATION OF STRUCTURES IN THE EVENT CHANGES IN THE DESIGN ARE NEEDED.
- THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB UTILITIES. THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
- THE LIMITS OF ALL REMOVAL ITEMS SHALL BE SAWCUT FULL-DEPTH. ALL SAW CUTTING SHALL BE INCLUDED IN THE COST OF THE IMPROVEMENT (EXCEPT SAW CUTTING OF PAVEMENT PATCHES) AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- THE CONTRACTOR, AT HIS EXPENSE, SHALL DISPOSE OF ALL EXCESS MATERIALS FROM EXCAVATION AND REMOVAL ITEMS IN ACCORDANCE WITH SECTION 202.03 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER TO CONTROL EROSION AND SEDIMENT DAMAGE TO THE ROADWAY, ADJACENT PROPERTIES, AND WATER RESOURCES. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARD 280001.
- HOT-MIX ASPHALT SURFACE COURSE QUANTITIES HAVE BEEN CALCULATED USING A RATE OF 125 LB./S.Y.-IN.
- BENCH MARKS:  
BENCH MARK 1: RAILROAD SPIKE IN A POWER POLE AT THE EAST ENTRANCE OF LONG JOHN SILVER'S RESTAURANT. STA. 82+86.89, 25.79' RT.  
BENCH MARK 2: NORTHWEST CORNER OF THE CONCRETE BASE FOR DAIRY QUEEN RESTAURANT SIGN. STA. 86+27.80, 30.84' RT.  
BENCH MARK 3: RAILROAD SPIKE IN LIGHT POLE 50± WEST OF E. ROCKHILL RD. AT EDWARDSVILLE RD. STA. 90+57.50, 29.51' LT.

**PAVEMENT DESIGN DATA (EDWARDSVILLE ROAD - F.A.U. 8980)**

DESIGN SPEED = 35 M.P.H.  
CLASS II STREET  
2007 AVERAGE DAILY TRAFFIC (A.D.T.) = 16,100  
2027 AVERAGE DAILY TRAFFIC (A.D.T.) = 19,600  
2017 STRUCTURAL DESIGN TRAFFIC (S.D.T.) = 17,800  
PASSENGER VEHICLES (P.V.) = 17,390 (97.7%)  
SINGLE UNITS (S.U.) = 232 (1.30%)  
MULTIPLE UNITS (M.U.) = 178 (1.00%)  
RIGID PAVEMENT DESIGN FOR LOCAL AGENCIES (BLRS CH. 37)  
DESIGN TRAFFIC FACTOR = 1.06  
SUBGRADE SUPPORT RATING (SSR) ASSUMED POOR  
PROPOSED PAVEMENT MATERIALS:  
P.C.C. PAVEMENT, 8" (JOINTED) (15' NOMINAL TRANSVERSE JOINT SPACING)  
PAVEMENT FABRIC, TYPE A  
SUB-BASE GRANULAR MATERIAL, TYPE A, 4"

**BITUMINOUS MIX REQUIREMENTS - HOT-MIX ASPHALT**

ROUTE	FAU 8980
SECTION	05-00043-02-WR
COUNTY	MADISON
CONTRACT	

DESCRIPTION: EDWARDSVILLE ROAD STA. 69+38.39 TO STA. 82+34.02

ADT (CONSTRUCTION YEAR)	16,100
MU %	1.0
SU %	1.3

MIXTURE USE	SURFACE COURSE	INCIDENTAL HOT-MIX SURF.
AC/PC	PG 64-22	PG 64-22
RAP % MAX	10%	10%
DESIGN AIR VOIDS	4% @ Ndes = 90	4% @ Ndes = 90
MIX COMPOSITION (GRADATION MIXTURE)		
FRICITION AGG	MIXTURE D	MIXTURE D

**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION (CUBIC YARDS)	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CUBIC YARDS)	EMBANKMENT (CUBIC YARDS)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CUBIC YARDS)
STA. 69+38.39 TO STA. 82+34.02	15	11	0	11
STA. 82+34.02 TO STA. 95+50	792	594	458	136
STA. 77+23 RT. (EDWARDSVILLE RD.)	12*	0	0	0
STA. 98+18 LT. IL. RTE. 111	* NON-SPECIAL WASTE DISPOSAL	(REMOVED FROM SITE)		
TOTAL	807	605	458	147

**PAVEMENT MARKING SCHEDULE**

ITEM	QUANTITY	UNIT
THERMOPLASTIC PAVEMENT MARKING-LINE 4" (YELLOW)	3,441	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 4" (WHITE)	597	FOOT
TOTAL THERMOPLASTIC 4"	4,038	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 6" (WHITE)	653	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 8" (WHITE)	508	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 12" (YELLOW)	303	FOOT
THERMOPLASTIC PAVEMENT MARKING-LINE 12" (WHITE)	373	EACH
TOTAL THERMOPLASTIC 12"	676	FOOT
THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS	281.1	SQ. FT.
PAVEMENT MARKING REMOVAL	526	SQ. FT.
POLYUREA TYPE I - CURB (YELLOW)	208	FOOT
POLYUREA TYPE I - CURB (WHITE)	268	FOOT
TOTAL POLYUREA CURB PAINT	476	FOOT
POLYUREA TYPE I - 4" LINE (WHITE)	200	FOOT
POLYUREA PAVEMENT MARKING TYPE I - LINE 4" (YELLOW)	3,180	FOOT
TOTAL POLYUREA 4"	3,380	FOOT
POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (YELLOW)	82	FOOT
POLYUREA PAVEMENT MARKING TYPE I - LINE 12" (WHITE)	88	FOOT
TOTAL POLYUREA 12"	170	FOOT
POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	152.6	SQ. FT.
RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	55	EACH
RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY CRYSTAL)	23	EACH
RAISED REFLECTIVE PAVEMENT MARKERS (ONE-WAY AMBER)	36	EACH
RAISED REFLECTIVE PAVEMENT MARKERS (TWO-WAY AMBER)	58	EACH
TOTAL RAISED REFLECTIVE PAVEMENT MARKERS	117	EACH

REVISIONS

**SMS ENGINEERS**  
Sheppard, Morgan & Schwaab, Inc.  
CONSULTING ENGINEERS AND LAND SURVEYORS  
215 Market Street, P.O. Box E, Alton, IL 62002-618042-9725 - Email: mail@smsengineers.com  
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EDWARDSVILLE ROAD PHASE II (FAU 8980)  
SECTION 05-00043-02-WR  
WOOD RIVER, ILLINOIS  
SUMMARY OF QUANTITIES AND GENERAL NOTES

DWG. NO.	Edwardsville-sum-qty-tp.dwg
REF. BR.	PG.
JOB NO.	286614
DSN. BY:	GA
DWN. BY:	CDP-jmk
CHK. BY:	JHH
DATE:	JANUARY, 2007