

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	QUANTITY		TOTAL
			CONSTRUCTION CODE		
			I000	X081-2A	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	48		48
20200100	EARTH EXCAVATION	CU YD	670		670
20300100	CHANNEL EXCAVATION	CU YD	75		75
> 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.65		0.65
28000300	TEMPORARY DITCH CHECKS	EACH	9		9
28100807	STONE DUMPED RIPRAP, CLASS A4	TON		740	740
> 28102600	STONE RIPRAP DITCH	TON	300		300
35100100	AGGREGATE BASE COURSE, TYPE A	TON	904		904
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	6		6
48101200	AGGREGATE SHOULDERS, TYPE B	TON	282		282
> 50100100	REMOVAL OF EXISTING STRUCTURES	EACH		1	1
50300225	CONCRETE STRUCTURES	CU YD		32.4	32.4
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT		1,200	1,200
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT		2,010	2,010
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND		4,470	4,470
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT		220	220
51201400	FURNISHING STEEL PILES HP10X42	FOOT		301	301
51202700	DRIVING STEEL PILES.	FOOT		163	163
51203400	TEST PILE STEEL HP10X42	EACH		1	1
51204315	CONCRETE ENCASEMENT	CU YD		10.8	10.8
51500100	NAME PLATES	EACH		1	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	50		50
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD		366	366
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT		241	241
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	425		425
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4		4
* > 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4		4
> 63200310	GUARDRAIL REMOVAL	FOOT	48		48
> 67100100	MOBILIZATION	L SUM	1		1
> 70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1		1
* > 78200400	GUARDRAIL REFLECTORS	EACH	11		11
* > 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4		4
> X0321317	GRANULAR BACKFILL	CU YD		45	45
> X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON		30	30
> X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON		8	8
> X4073016	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 6 3/4"	SQ YD	1324		1324
> Z0005600	BREAKING PAVED DITCH	FOOT	472		472
> Z0065000	SETTING PILES IN ROCK	EACH		6	6

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
 AGGREGATE SURFACE CSE. 2.05 TON/CU YD
 STONE DUMPED RIPRAP, CL. A4 1.75 TON/CU YD
 GRANULAR BACKFILL 2.02 TON/CU YD
 BITUMINOUS SUPERPAVE 112 LBS /SY/INCH DEPTH
 AGGREGATE BASE COURSE TY. A 2.05 TON/CU YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. **ESTIMATED QUANTITY = 0.65 ACRES.**
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

MIXTURE REQUIREMENTS

LOCATION(S):	CH 24 FULL DEPTH PAVEMENT & BRIDGE SURFACING
MIXTURE USE(S):	BITUMINOUS CONCRETE SURFACE SUPERPAVE
AC/PG:	PG 64-22
RAP % (MAX):	15%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION:	IL 9.5
(GRADATION MIXTURE):	
FRICTION AGGREGATE:	MIXTURE C
MIXTURE WEIGHTS:	112 LBS / SY / INCH THICKNESS

MIXTURE REQUIREMENTS

LOCATION(S):	CH 24 BRIDGE SURFACING
MIXTURE USE(S):	LEVELING BINDER (MACHINE METHOD) SUPERPAVE
AC/PG:	PG 64-22
RAP % (MAX):	25%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION:	IL-9.5
(GRADATION MIXTURE):	
FRICTION AGGREGATE:	MIXTURE C
MIXTURE WEIGHTS:	112 LBS / SY / INCH THICKNESS

MIXTURE REQUIREMENTS

LOCATION(S):	CH 24 FULL DEPTH PAVEMENT
MIXTURE USE(S):	BITUMINOUS CONCRETE BINDER SUPERPAVE
AC/PG:	PG 64-22
RAP % (MAX):	25%
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION:	IL-19.0
(GRADATION MIXTURE):	
FRICTION AGGREGATE:	
MIXTURE WEIGHTS:	112 LBS / SY / INCH THICKNESS

> SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

TREE REMOVAL (6-15 UNITS)

LOCATION	UNITS
CH 24	
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
34' RT. STA. 102+75	6
TOTAL	48

PAVEMENT DESIGN

DESIGN PERIOD: 20 YEARS 73,200 LB. LOAD LIMIT
 STRUCTURAL DESIGN TRAFFIC (S.D.T.) = 1804 YEAR 2015
 P.V. = 1588 S.U. = 126 M.U. = 90
 ROAD/STREET CLASSIFICATION: CLASS III ROAD
 PERCENT OF S.D.T. IN DESIGN LANE
 P = 50 S = 50 M = 50
 TRAFFIC FACTOR = ACTUAL TF 0.39 AC TYPE 64-22
 MINIMUM TF
 PG GRADE: BINDER = 64-22 SURFACE = 64-22
 SUPERGRADE SUPPORT RATING:
 SSR= FAIR (STA. 99+25 TO STA. 105+75)

HLR
 Rice, Berry and Associates
 A Division of Hampton,
 Lenzini and Renwick, Inc.
 Civil & Structural Engineers
 3085 Stevenson Drive
 Suite 201
 Springfield, Illinois 62703
 217-546-3400
 Account Number:
 12-34-0002-1
 Date: 03/09/06
 P.O. Box 1036
 DuQuoin, Illinois 62832
 618-790-4637
 DESIGNED: L.F.S. CHECKED: S.W.M. DRAWN: D.T.M.

SUMMARY OF QUANTITIES AND GENERAL NOTES

SECTION 02-00104-00-BR

F.A.S. 712 / C.H. 24

FAYETTE COUNTY