

**SUMMARY OF QUANTITIES**

CODE NO	ITEM	CONSTRUCTION CODE X081-2A	
		UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	120
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	120
20100500	TREE REMOVAL, ACRES	ACRE	1.0
20200100	EARTH EXCAVATION	CU YD	805
> 20300300	CHANNEL EXCAVATION	CU YD	2,850
20400800	FURNISHED EXCAVATION	CU YD	8,500
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	5,394
> 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.9
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	190
28000300	TEMPORARY DITCH CHECKS	EACH	12
28000400	PERIMETER EROSION BARRIER	FOOT	1,250
> 28101700	RIPRAP, SPECIAL	TON	1,700
> 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	2,075
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
> 50300225	CONCRETE STRUCTURES	CU YD	185.9
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	9,480
50800105	REINFORCEMENT BARS	POUND	12,770
50900205	STEEL RAILING, TYPE S1	FOOT	641
51201600	FURNISHING STEEL PILE HP12X53	FOOT	1,160
51202700	DRIVING STEEL PILES	FOOT	1,160
> 51203600	TEST PILE STEEL HP12X53	EACH	2
51500100	NAME PLATES	EACH	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	270
54200223	PIPE CULVERTS, CLASS D, TYPE 1, 18"	FOOT	74
> 63000135	STEEL PLATE BEAM GUARDRAIL, TYPE B (SPECIAL)	FOOT	12.5
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	3
> 63100205	TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)	EACH	1
> 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	3
67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1
X5020503	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 3	EACH	1

> SEE SPECIAL PROVISIONS

**EARTHWORK SCHEDULE**

LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE* EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 6+50 TO STA. 13+46.22	457	25%	100%	343	1,470	-1,127
STA. 13+46.22 TO STA. 16+63.78	-	25%	100%	-	-	-
STA. 16+63.78 TO STA. 27+00	348	25%	100%	261	8,838	-8,577
CHANNEL EXCAVATION ENTRANCE	2,850	25%	70%	1,496	300	1,496 -300
TOTAL	805			2,100	10,608	-8,508
USE:	805					-8,500

\* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED

**TREE REMOVAL, ACRES**

LOCATION	ACRES
STA. 13+20 TO 14+10, 20' RT. TO 40' RT.	0.05
STA. 13+50 TO 14+40, 20' LT. TO 40' LT.	0.04
STA. 15+20 TO 18+00, 20' RT. TO 60' RT.	0.26
STA. 15+40 TO 18+00, 20' LT. TO 60' LT.	0.24
STA. 18+00 TO 19+80, 20' RT. TO R.O.W.	0.13
STA. 18+00 TO 20+20, 20' LT. TO R.O.W.	0.17
RT. STA. 19+54 TEMPORARY EASEMENT	0.06
TOTAL	0.95
USE	1.0

**GENERAL NOTES**

- ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2002 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2002; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.  
  
ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE DEPARTMENT.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE REMOVAL OF THE EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT OR PROTECTION IS NECESSARY.  
  
THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES AND WATER SERVICE LINES IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD AS INCIDENTAL TO THE CONTRACT.  
  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. THIS WORK SHALL BE THE CONTRACTOR'S EXPENSE.
- 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., TY. B	2.05 TON/CU YD
RIPRAP, SPECIAL	1.75 TON/CU YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AT THE DIRECTION OF THE ENGINEER.
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 107.14 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS BEFORE ORDERING THESE ITEMS.

TRAFFIC BARRIER TERMINAL, TYPE 5A	
LOCATION	EACH
RT. STA. 13+29.02 TO STA. 13+42.27	1
RT. STA. 16+62.44 TO STA. 16+75.69	1
LT. STA. 16+67.73 TO STA. 16+80.98	1
TOTAL	3

TRAFFIC BAR. TERM, TY 1, SPL. (TANGENT)	
LOCATION	EACH
RT. STA. 12+79.02 TO STA. 13+29.02	1
RT. STA. 16+75.69 TO STA. 17+25.69	1
LT. STA. 16+80.98 TO STA. 17+30.98	1
TOTAL	3

TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)	
LOCATION	EACH
CONNECT TO STEEL BRIDGE RAIL, TYPE S1 AT LT. STA. 13+47.56 FABRICATE TO 15' RADIUS	1
TOTAL	1

STEEL PLATE BEAM GUARDRAIL, TYPE B (SPECIAL)	
LOCATION	FOOT
SOUTHWEST CORNER, CONNECT TO END OF TBT, T5A (SPL) FABRICATE TO 15' RADIUS	12.5
TOTAL	12.5



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DESIGNED: S.W.M. CHECKED: T.P.L. DRAWN: D.B.

**SUMMARY OF QUANTITIES AND GENERAL NOTES**  
SECTION 98-02120-00-BR  
BOURBON ROAD DISTRICT  
DOUGLAS COUNTY  
STATION 15+05