

**SUMMARY OF QUANTITIES**

CONSTRUCTION TYPE CODE: 1000-2A

CODE	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	47
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	73
20200100	EARTH EXCAVATION	CU YD	14,990
21400100	GRADING AND SHAPING DITCHES	FOOT	9,621
25001000	• SEEDING, CLASS 2 (SPECIAL)	ACRE	7.52
25100630	EROSION CONTROL BLANKET	SQ YD	868
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	752
28000300	TEMPORARY DITCH CHECKS	EACH	69
28000310	AGGREGATE DITCH CHECKS	EACH	1
28000500	INLET AND PIPE PROTECTION	EACH	31
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SQ YD	66
35101400	AGGREGATE BASE COURSE, TYPE B	TON	39
35200500	CEMENT	100 WT	31,700
35800100	• PREPARATION OF BASE	SQ YD	15,113
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	152
40201000	• AGGREGATE FOR TEMPORARY ACCESS	TON	100
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7,800
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	3,276
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	2,150
44004000	PAVED DITCH REMOVAL	FOOT	662
48101200	• AGGREGATE SHOULDERS, TYPE B	TON	1,611
50105220	PIPE CULVERT REMOVAL	FOOT	140
54200430	PIPE CULVERTS, TYPE 1 RCCP 15"	FOOT	88
54200433	PIPE CULVERTS, TYPE 1 RCCP 18"	FOOT	32
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	11
60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ YD	1,349
60107700	PIPE UNDERDRAINS 6"	FOOT	19,000
60108200	• PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	1,130
60108300	• PIPE UNDERDRAINS 8" (SPECIAL)	FOOT	399
60108510	• PIPE UNDERDRAINS 15" (SPECIAL)	FOOT	896
60108520	• PIPE UNDERDRAINS 18" (SPECIAL)	FOOT	3,332
60225100	• RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE B GRATE	EACH	12
60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	17
60236200	INLETS, TYPE A, TYPE B GRATE	EACH	1
66700095	• PERMANENT SURVEY MARKERS	EACH	4
67100100	MOBILIZATION	L SUM	1
70101830	• TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
XX001050	• TRENCH BACKFILL (SPECIAL)	TON	121
XX007781	• PLACEMENT OF SALVAGED BASE MATERIAL	SQ YD	13,200
XX007782	• PIPE UNDERDRAINS 21" (SPECIAL)	FOOT	934
XX007783	• PROCESSING SOIL-CEMENT BASE COURSE 12"	SQ YD	28,500
XX007784	• FRENCH DRAINS (SPECIAL)	TON	291
XX007785	• SURFACE REMOVAL (SPECIAL)	SQ YD	8,800

• SEE SPECIAL PROVISIONS

**GENERAL NOTES**

- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES AND PIPES ENCOUNTERED ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR EARTH EXCAVATION EXCEPT AS NOTED ON THE PLANS.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, 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 UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CEMENT CONTENT OF THE BASE COURSE IS ESTIMATED TO BE 10% BY VOLUME. THE QUANTITY OF CEMENT SHOWN ON THE PLANS WAS COMPUTED AT A RATE OF 117 POUNDS OF CEMENT PER SQUARE YARD.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.  
SEEDING, CLASS 2 (SPECIAL) = 7.52 ACRES
- THE FOLLOWING MATERIALS SHALL BE USED. NO OTHER KIND OF MATERIAL WILL BE PERMITTED AS AN ALTERNATE.

ITEM	MATERIAL	ARTICLE/SPECIFICATION
PIPE CULVERTS TYPE 1 RCCP	REINFORCED CONCRETE CULVERT STORM DRAIN & SEWER PIPE	1042.06
PIPE UNDERDRAINS	PERFORATED CORRUGATED POLYETHYLENE PIPE ADS N-12 OR APPROVED EQUAL	AASHTO M252 - UNDER ROADWAYS ASTM F2648 UNDER GRASSY AREAS
BACKFILL FOR PIPE UNDERDRAINS 6", FRENCH DRAINS, AND TRENCH BACKFILL (SPECIAL)	CA 14 WASHED GRAVEL	1004.02

- GRADING AND SHAPING DITCHES  
EXISTING DITCHES SHALL BE GRADED AND SHAPED ACCORDING TO THE LINES, GRADES, AND CROSS SECTIONS SHOWN IN THE PLANS. THE WIDTH OF THE GRADING AND SHAPING SHALL BE APPROXIMATELY TEN FEET. EXCESS MATERIAL SHALL BE DISPOSED OF AS SPECIFIED IN ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- MIXTURE REQUIREMENTS  
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

LOCATIONS:	CH 13 STA 9+00	TO STA 104+00
MIXTURE USE(S):	BINDER	SURFACE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ NDESIGN=70	4.0% @ NDESIGN=70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 19.0	IL 9.5
FRICTION AGGREGATE:	NA	MIX "C"

**APPLICATION RATES USED IN QUANTITY CALCULATIONS**

CA 14 ----- 1.32 Ton/Cu. Yd.  
 Bituminous Materials ----- 0.30 Gal./Sq. Yd.  
 Hot-Mix Asphalt ----- 112 Lbs./Sq. Yd./1" Thickness

CUMMINS  
ENGINEERING  
CORPORATION

JOB = 2096.1	DESIGNED - NAK	REVISED -
FILE NAME = 096.1.tup.dgn	DRAWN - AJH	REVISED -
PLOT SCALE = 10.0000' / IN.	CHECKED - NAK	REVISED -
PLOT DATE = 12/22/2008	DATE - 10/08/2008	REVISED -

MOULTRIE COUNTY  
BETHANY FINDLAY RD. IMPROVEMENTS

**SUMMARY OF QUANTITIES & GENERAL NOTES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
650	02-00062-01-PV	MOULTRIE	44	2
CH 13, BETHANY FINDLAY RD.		CONTRACT NO. 95568		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		