REQUIRED QUANTITIES PER SHEET

GA. EDF-017-3(39) CT 194

STA. 173+00 TO STA. 188+67

Rev 12-16-86

QUANTITIES SHEET NO. 26

STA. 158+00 TO STA. 173+00

EARTHWORK QUANTITIES

STATION	① UNCLASS EXCAVATION	② UNCLASS EXCAVATION SHRINKAGE	CU. YD. EMBANKMENT	CU. YD. ③ BORROW	CU. YD. ④ ADJ. BORROW	COMMENTS
MAINLINE	7016	5964	49,778			
TOTAL	7016	5964	49,778			

① NEAT VOLUME
② A SHRINKAGE FACTOR OF .15 PERCENT HAS BEEN APPLIED TO THE EXCAVATION QUANTITIES WITHIN THE CONSTRUCTION AREA.
③ A SHRINKAGE FACTOR OF .15 PERCENT HAS BEEN APPLIED TO THE NEAT BORROW TO OBTAIN THE ADJUSTED BORROW PIT QUANTITY

CLEARING AND GRUBBING

ITEM	UNIT	AMOUNT
LUMP SUM	ACRES	8.14

THE TOTAL ACREAGE IN THE RIGHT OF WAY, CONSTRUCTION EASEMENTS SHOWN FOR CLEARING AND GRUBBING (LUMP SUM) IS FOR ESTIMATING PURPOSES ONLY.
IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TOTAL ACREAGE SHOWN IN CASE HE ELECTS TO USE THE PLAN QUANTITY IN ESTABLISHING HIS BID PRICE. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IN CASE THE ACREAGE SHOWN IS LESS THAN THE ACTUAL ACREAGE, NOR WILL THE DEPARTMENT OF TRANSPORTATION CLAIM ANY REDUCTION IN PAYMENT IN CASE THE ACREAGE SHOWN EXCEEDS THE ACTUAL ACREAGE.

GRASSING

	UNIT	QUANTITY	FERTILIZER MIXED GRADE TON	FERTILIZER NITROGEN CONTENT LB.	AGRICULTURAL LIME TON
LUMP SUM	ACRES	5.87	5.28	294	17.61
TOTAL		5.87	5.28	294	17.61

(FOR ESTIMATING PURPOSES ONLY)

QUANTITIES SHEET NO. 28

EARTHWORK QUANTITIES

STATION	① UNCLASS EXCAVATION	② UNCLASS EXCAVATION SHRINKAGE	CU. YD. EMBANKMENT	CU. YD. ③ BORROW	CU. YD. ④ BORROW	COMMENTS
MAINLINE	52,701	44,796	32,476			
SPECIAL DITCH	354	301				
TOTAL	53,055	45,097	32,476			

① NEAT VOLUME
② A SHRINKAGE FACTOR OF .15 PERCENT HAS BEEN APPLIED TO THE EXCAVATION QUANTITIES WITHIN THE CONSTRUCTION AREA.
③ A SHRINKAGE FACTOR OF .15 PERCENT HAS BEEN APPLIED TO THE NEAT BORROW TO OBTAIN THE ADJUSTED BORROW PIT QUANTITY

CLEARING AND GRUBBING

ITEM	UNIT	AMOUNT
LUMP SUM	ACRES	8.14

THE TOTAL ACREAGE IN THE RIGHT OF WAY, CONSTRUCTION EASEMENTS SHOWN FOR CLEARING AND GRUBBING (LUMP SUM) IS FOR ESTIMATING PURPOSES ONLY.
IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TOTAL ACREAGE SHOWN IN CASE HE ELECTS TO USE THE PLAN QUANTITY IN ESTABLISHING HIS BID PRICE. NO CLAIMS WILL BE CONSIDERED FOR EXTRA COMPENSATION IN CASE THE ACREAGE SHOWN IS LESS THAN THE ACTUAL ACREAGE, NOR WILL THE DEPARTMENT OF TRANSPORTATION CLAIM ANY REDUCTION IN PAYMENT IN CASE THE ACREAGE SHOWN EXCEEDS THE ACTUAL ACREAGE.

GRASSING

	UNIT	QUANTITY	FERTILIZER MIXED GRADE TON	FERTILIZER NITROGEN CONTENT LB.	AGRICULTURAL LIME TON
LUMP SUM	ACRES	5.61	5.05	281	16.83
TOTAL		5.61	5.05	281	16.83

(FOR ESTIMATING PURPOSES ONLY)

STORM DRAIN PIPE / SLOPE DRAIN PIPE / REINFORCED CONCRETE BOX CULVERTS

STATION	SKEW	STORM DRAIN PIPE-LIN. FT. 15"	18"	24"	30"	36"	42"	HEIGHT OF FILL OR DESIGN GA. STD. 1020-D FT.	SANDBAG-CEMENT BAG RIP RAP 8" THICK SQ. YD.	SIDE DRAIN PIPE LIN. FT. 18"	24"	30"	CONCRETE FLARED END SECTION GA. STD. 1120 EACH	REINFORCED BOX CULVERTS INCLUDING APRONS LENGTH LIN. FT.	SIZE FT. x FT.	STANDARD	DESIGN	HEADWALLS GA. STD. 1125 CLASS "A" CONC. INCL. STEEL INLET CU. YD.	OUTLET CU. YD.	FOUNDATION BACKFILL MATERIAL-TYPE II CU. YD.	GA. STD. 9031-S OR 9031-S PRECAST GROUP 1 MEDIAN DROP INLET H46 OR 1D4 EA.	MEDIAN DROP INLET H46 OR LCSS EA.	ADDITIONAL DEPTH LIN. FT.	GROUP 2 MEDIAN DROP INLET H46 OR LCSS EA.	ADDITIONAL DEPTH LIN. FT.	DROP INLET CONNECTION TO CONCRETE BOX CULVERT-GA. STD. 9031-L EA.
159+54	77° RT.		145					1-10	0.67				2-18"													
168+70	60° RT.						192	20-25										4.62	4.00	48.6						
171+00	76° LT.					169		20-25										2.92	3.85							
165+00 LT.								1-10		20			2-18"													
TOTALS			145			169	192		0.67	20			4-18"					7.54	7.85	48.6						

DITCH PROTECTION

STATION TO STATION	SIDE	BITUMINUS TREATED GLASS FIBER MULCH S.Y.	PERMANENT SOIL REFORCING MAT S.Y.
168+70 - 166+50	LT.		1039
TOTAL			1039

SPECIAL CONCRETE DITCH

STATION TO STATION	SIDE	S.Y.
169+20 - 169+68	RT	44
TOTAL		44

FENCE

TYPE	LIN. FT.
WOVEN WIRE FENCE	3080

MULCH

STA. TO STA.	UNIT	AMT.
167+00 TO 173+00 LT	SQ. YD.	1338
163+00 TO 173+00 RT.		2378
TOTAL		3716

GUARD RAIL

STA. TO STA.	SIDE	TYPE W BEAM	LF	ANCHORAGE
168+50 TO 173+00	RT	450		1-TYPE 9

PAVEMENT

STATION	1-1/2" TON	2" TON	4" TON	8" S.Y.	TACK COAT, GAL.	6" AGGR. SURF. COURSE TON
MAINLINE	891.25	1196.38	2411.93	10650	735	
PAVED SHOULDER		75	150		30	
STA. 165+00 DRIVE LT						46
STA. 170+00 DRIVE LT						46
TOTAL	891.25	1271.38	2561.93	10650	765	92

CONCRETE RIGHT OF WAY MARKERS

STATION	SIDE	EACH
169+10	RT	2
169+80	RT.	2
170+65	RT.	2
170+85	RT.	2
166+68.76	RT.	1
166+68.76	LT.	2
TOTAL		11

EROSION CONTROL

STATION	SILT GATES EACH TY 2	TY 3	TY 4	SILT FENCE TYPE A LF
158+00 TO 159+50				150
166+80 TO 173+00				700
167+00 TO 169+00				680
170+80 TO 173+00				220
159+90 RT.				20
159+54		1		
168+70		1		
171+00		1		
TOTALS		3		1770

SLOPE DRAIN PIPE

STATION	10" LIN. FT.	STATION	10" LIN. FT.
164+00			24
166+00			30
167+90			55
169+50			55
171+00			46
TOTAL			210

STORM DRAIN PIPE / SLOPE DRAIN PIPE / REINFORCED CONCRETE BOX CULVERTS

STATION	SKEW	STORM DRAIN PIPE-LIN. FT. 15"	18"	24"	30"	42"	48"	HEIGHT OF FILL OR DESIGN GA. STD. 1020-D FT.	SIDE DRAIN PIPE LIN. FT. 15"	18"	24"	30"	CONCRETE FLARED END SECTION GA. STD. 1120 EACH	REINFORCED CONCRETE BOX CULVERTS INCLUDING APRONS LENGTH LIN. FT.	SIZE FT. x FT.	STANDARD	DESIGN	HEADWALLS GA. STD. 1125 CLASS. "A" CONC. INCL. STEEL INLET CU. YD.	OUTLET CU. YD.	FOUNDATION BACKFILL MATERIAL TYPE II CU. YD.	STANDARD DROP INLET GA. STD. 1019-A TYPE "C" EA.	CONCRETE SPILLWAY GA. STD. 9013 TYPE 3 EA.	ADDITIONAL DEPTH LIN. FT.	GROUP 2 MEDIAN DROP INLET H46 OR LCSS EA.	ADDITIONAL DEPTH LIN. FT.
175+00	90°			158				15-20										1.61	1.69						
186+35																					1				
187+00																						1			
16 CARTER																									
1+40			18					1-10													1				
TOTALS			18	158																	2	1			

DITCH PROTECTION

STATION TO STATION	SIDE	BITUMINUS TREATED GLASS FIBER MULCH S.Y.	PERMANENT SOIL REFORCING MAT S.Y.
100+00 - 180+40	RT	509	
175+00 - 185+00	LT.	889	
TOTAL		1458	

REMOVE CONCRETE HEADWALLS ALL SIZES

STATION	SIDE	SIZE	EACH

FENCE

TYPE	LIN. FT.
WOVEN WIRE FENCE	3150

MULCH

STA. TO STA.	UNIT	AMT.
173+00 TO 174+00 LT	SQ. YD.	551
173+00 TO 178+00 LT		1324
TOTAL		1875

GUARD RAIL

STA. TO STA.	SIDE	TYPE W BEAM	LF	ANCHORAGE
173+00 TO 178+00 RT.		590		1-TYPE 1

PAVEMENT

STATION	1-1/2" TON	2" TON	4" TON	8" S.Y.	TACK COAT, GAL.	COMMENT
MAINLINE	912.05	1224.3	2468.21	10898.6	752.15	
PAVED SHOULDER		76.75	153.50		30.70	
TOTAL	912.05	1301.05	2621.71	10898.6	782.85	

CONCRETE RIGHT OF WAY MARKERS

STATION	SIDE	EACH
177+50	LT.	2
178+28.86	LT.	1
178+85	RT.	2
179+00	LT.	1
180+00	LT.	1
181+00	LT.	1
183+68.51	LT.	1
183+08	RT.	1
187+00	LT.	1
175+15	RT.	2
175+80.54	RT.	1
175+66.67	RT.	1
177+70.01	RT.	1
TOTAL		16

EROSION CONTROL

STATION	SILT GATES EACH TY 1	TY 3	TY 4	TYPE A SILT FENCE LF
173+00 TO 175+00 LT.				200
175+10 LT.				20
173+00 TO 175+90 RT.				190
175+50 RT.				20
176+50 TO 178+00 RT.				150
179+00 LT.				20
175+00		1		
TOTALS		1		600

SLOPE DRAIN PIPE

STATION	LIN. FT. (10")
174+35	34
175+00	20
175+50	20
Total	74