REQUIRED QUANTITIES PER SHEET

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	EDF-017-3(39)	21	194

QUANTITIES SHEET NO. 20

STA. 98+00 TO STA. 113+00

EARTHWORK QUANTITIES

STATION	CU. YD. ②UNCLASS EXCAVATION	CU. YD. ③UNCLASS EXCAVATION SHRINKAGE	CU. YD. EMBANKMENT	CU. YD. ③BORROW	CU. YD. ④BORROW	COMMENTS
MAINLINE	9476	8055	54,169			
SPECIAL DITCH	3004	1703				
TOTAL	11,480	9758	54,169			

② NEAT VOLUME
③ A SHRINKAGE FACTOR OF 15 PERCENT HAS BEEN APPLIED TO THE EXCAVATION QUANTITIES WITHIN THE CONSTRUCTION AREA.
④ 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	7.09

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	4.82	4.34	241	14.46
TOTAL		4.82	4.34	241	14.46

(FOR ESTIMATING PURPOSES ONLY)

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

STATION 102+30	SKEW	STORM DRAIN PIPE-LIN. FT. 15"	18"	24"	30"	42"	48"	HEIGHT OF FILL OR DESIGN GA. STD. 1030-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	BAR REINFORCING STEEL LB.	CLASS "A" CONCRETE CU.YD	FOUNDATION BACKFILL MATERIAL-TYPE II CU.YD.	GA. STD. 9031-S OR 9031-S PRECAST GROUP 1: MOD-MEDIAN DROP INLET 1H46' OR LESS EA.	GROUP 1: MEDIAN DROP INLET 1H46' OR LESS EA.	GROUP 1: ADDITIONAL DEPTH LIN. FT.	GROUP 2: MEDIAN DROP INLET 1H46' OR LESS EA.	GROUP 2: ADDITIONAL DEPTH LIN. FT.	DROP INLET CONNECTION TO CONCRETE BOX CULVERT-GA. STD. 9031-L EA.
103+45	60° LT.							10-16						168	8'x6'	2329		26863	217.4							
TOTALS														168	8'x6'			26863	217.4							

DITCH PROTECTION

STATION TO STATION	SIDE	BITUMINUS TREATED GLASS FIBER MULCH-S.Y	PERMANENT SOIL REINFORCING MAT-S.Y
99+80 - 103+80	LT		373
110+00 - 115+00	LT	267	
103+80 - 110+00	LT	433	
TOTAL		700	373

PAVEMENT

STATION	1-1/2" TON	2" TON	4" TON	8" S.Y.	TACK COAT, GAL.	COMMENT
MAINLINE	891.25	1196.38	2411.93	10650	735	
PAVED SHOULDER		75	150		30	
TOTAL	891.25	1271.38	2561.93	10650	765	

CONCRETE RIGHT OF WAY MARKERS

STATION	SIDE	EACH
101+50	RT.	2
105+00	RT.	2
102+21.46	LT.	1
102+34.39	RT.	1
TOTAL		6

SPECIAL CONCRETE DITCH

STATION TO STATION	SIDE	S.Y.
99+30 - 103+95	LT	333
102+85 - 107+25	RT	100
TOTAL		

FENCE

TYPE	LIN. FT.
WOVEN WIRE FENCE	3050

MULCH

STA. TO STA.	UNIT	AMOUNT
100+00 TO 108+00 LT.	SY	2267
100+00 TO 107+00 RT.	SY	1571
TOTAL		3838

GUARD RAIL

STA. TO STA.	SIDE	TYPE "W" BEAM	ANCHORAGE
100+50 TO 105+00	RT.	450	1-TYPE 9 1-TYPE 1

EROSION CONTROL

STATION	SILT GATES EACH TY 1	TY 3	TY 4	SILT FENCE TYPE A LF
102+30	1			
101+80				40
104+00				40
TOTALS	1			80

SLOPE DRAIN PIPE

STATION	10" LIN. FOOT	STATION	10" LIN. FOOT
100+55	73		
101+55	55		
102+60	54		
104+15	48		
104+60	55		
106+34	36		
106+60	54		
TOTAL	375		

QUANTITIES SHEET NO. 22

STA. 113+00 TO STA. 128+00

EARTHWORK QUANTITIES

STATION	CU. YD. ②UNCLASS EXCAVATION	CU. YD. ③UNCLASS EXCAVATION SHRINKAGE	CU. YD. EMBANKMENT	CU. YD. ③BORROW	CU. YD. ④BORROW	COMMENTS
MAINLINE	46,958	39,914	5196			
127+50 RT			80			DRIVE
SPECIAL DITCH	165	140				
TOTAL	47,123	40,054	5,276			

② NEAT VOLUME
③ A SHRINKAGE FACTOR OF 15 PERCENT HAS BEEN APPLIED TO THE EXCAVATION QUANTITIES WITHIN THE CONSTRUCTION AREA.
④ 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	7.02

THE TOTAL ACREAGE IN THE RIGHT OF WAY, CONSTRUCTION EASEMENTS SHOWN FOR CLEARING AND GRUBBING (LUMP SUM) IS FOR ESTIMATING PURPOSES ONLY.
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GRASSING

	UNIT	QUANTITY	FERTILIZER MIXED GRADE TON	FERTILIZER NITROGEN CONTENT LB.	AGRICULTURAL LIME TON
LUMP SUM	ACRES	4.75	4.28	238	14.25
TOTAL		4.75	4.28	238	14.25

(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"	42"	48"	HEIGHT OF FILL OR DESIGN GA. STD. 1030-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	BAR REINFORCING STEEL LB.	CLASS "A" CONCRETE CU.YD	FOUNDATION BACKFILL MATERIAL-TYPE II CU.YD.	GA. STD. 9031-S OR 9031-S PRECAST GROUP 1: MOD-MEDIAN DROP INLET 1H46' OR LESS EA.	GROUP 1: MEDIAN DROP INLET 1H46' OR LESS EA.	GROUP 1: ADDITIONAL DEPTH LIN. FT.	GROUP 2: MEDIAN DROP INLET 1H46' OR LESS EA.	GROUP 2: ADDITIONAL DEPTH LIN. FT.
127+50 RT.								1-10		16			2-18"												
127+50 LT								1-10		16			2-18"												
TOTALS										32			4-18"												

DITCH PROTECTION

STATION TO STATION	SIDE	BITUMINUS TREATED GLASS FIBER MULCH-S.Y	PERMANENT SOIL REINFORCING MAT-S.Y
122+40 - 128+00	RT	654	
113+00 - 122+40	LT	1149	
122+40 - 128+00	LT	654	
TOTAL		2517	

PAVEMENT

STATION	1-1/2" TON	2" TON	4" TON	8" S.Y.	TACK COAT, GAL.	6" AGGR. SURFACE COURSE TON
MAINLINE	891.25	1196.38	2411.93	10650	735	
PAVED SHOULDER		75	150		30	
STA. 127+50 DRIVE RT.						17.6
STA. 127+50 DRIVE LT.						15.3
TOTAL	891.25	1271.38	2561.93	10650	765	32.9

CONCRETE RIGHT OF WAY MARKERS

STATION	SIDE	EACH
119+60	RT.	2
122+50	RT.	2
TOTAL		4

SPECIAL CONCRETE DITCH

STATION TO STATION	SIDE	S.Y.
128+80 - 130+00	RT	83
TOTAL		83

MULCH

STA. TO STA.	UNIT	AMOUNT
119+80 TO 122+30 RT	SY	853

FENCE

TYPE	LIN. FT.
WOVEN WIRE FENCE	3026

EROSION CONTROL

STATION	SILT GATES EACH TY 1	TY 3	TY 4	SILT FENCE TYPE A LF
119+70				40
TOTALS				

SLOPE DRAIN PIPE

STATION	10" LIN. FOOT	STATION	10" LIN. FOOT
120+45	53		
122+47	25		
TOTAL	78		