

ESTIMATED QUANTITIES					ESTIMATED QUANTITIES				
PAY ITEM	PAY UNIT	VDOT PARTICIPATION	CITY PARTICIPATION	TOTAL	PAY ITEM	PAY UNIT	VDOT PARTICIPATION	CITY PARTICIPATION	TOTAL
MOBILIZATION	LS	1	-	1	PAVEMENT MESSAGE MARKING ELONGATED ARROW SINGLE	EA	4	-	4
CLEARING AND GRUBBING	LS	1	-	1	PAVEMENT MESSAGE MARKING ELONGATED ARROW DOUBLE	EA	4	-	4
REGULAR EXCAVATION	CY	62.843	13.537	76.380	PAVEMENT MESSAGE MARKING "ONLY"	EA	3	-	3
CONSTRUCTION SURVEYING	LS	0.59	0.41	1.0	TRAFFIC LINE PAINTING 24"	LF	55	-	55
12" CONCRETE PIPE	LF	412	104	516	TRAFFIC LINE PAINTING 4"	LF	21,150	14,700	35,850
15" CONCRETE PIPE	LF	356	-	356	GUARDRAIL STD GR-2	LF	675	1792.5	2467.5
18" CONCRETE PIPE	LF	-	152	152	GUARDRAIL STD GR-2 - RADIAL	LF	-	74	74
24" CONCRETE PIPE	LF	122	100	222	GUARDRAIL TERMINAL GR-7	EA	2	2	4
30" CONCRETE PIPE	LF	62	-	62	DEMOLITION OF PAVEMENT	SY	10,673	6336	17,009
36" CONCRETE PIPE	LF	90	-	90	OBSCURING OLD ROAD	UNIT	32.23	13.12	45.35
48" CONCRETE PIPE	LF	14	-	14	FENCE - STD FE-CL (MOD)	LF	2300	-	2920
24" END SECTION	EA	1	-	1	CORNER BRACE FE-CL (MOD)	EA	4	-	11
36" END SECTION	EA	1	-	1	LINE BRACE FE-CL (MOD)	EA	5	-	5
RELAID PIPE (15")	LF	24	-	24	DOUBLE SWING GATE FE-CL (MOD) 16"	EA	3	-	3
ENDWALLS, STD EW-1	CY	6.77	4.12	10.89	FENCE STD FE-W1	LF	139	1680	1819
ENDWALLS, STD EW-2	CY	4.37	-	4.37	CORNER BRACE FE-W1	EA	-	3	3
DROP INLET, STD. DI-7A	EA	1	1	2	LINE BRACE FE-W1	EA	-	3	3
DROP INLET, STD. DI-7B	EA	1	1	2	STD FE-G GATE 12"	EA	-	1	1
EROSION CONTROL TREATMENT EC-1 TYPE A	TON	5.8	3.0	8.8	MEDIAN STRIP, STD MS-2 VAR	LF	77	-	77
EROSION CONTROL TREATMENT EC-1 TYPE B	TON	22.84	-	22.84	FIELD OFFICE, TYPE II	MON	8	-	8
EROSION CONTROL TREATMENT EC-2	SY	313	507	820	COMBINATION UNDERDRAIN STD CD-1	LF	241	115	356
PAVED DITCH STANDARD PG-2A TYPE E	SY	-	30	30	COMBINATION UNDERDRAIN STD CD-2	LF	152	74	226
PAVED DITCH STANDARD PG-2A TYPE E (MOD.)	SY	-	20	20	4" PVC CONDUIT, SCHEDULE 80 SLEEVE	LF	75	-	75
PAVED FLUME STANDARD PG-4	SY	8.50	14.88	23.38	8" SANITARY SEWER PIPE	LF	-	1396	1396
MINOR STRUCTURE EXCAVATION (48" PIPE)	CY	6.47	-	6.47	SANITARY SEWER MANHOLE	VF	-	23	23
CEMENT STABILIZED AGGREGATE BASE MATERIAL, TYPE 21A	TON	7642	4934	12,576	SANITARY SEWER FRAME AND COVER	EA	-	3	3
HYDRAULIC CEMENT 4% BY WEIGHT	TON	269	173	442	DROP MANHOLE CONNECTION	LS	-	1	1
BASE COURSE, ASPHALT CONCRETE TYPE BM-2	TON	5269	3403	8672	12" DUCTILE IRON WATER MAIN	LF	-	7199	7199
ASPHALT CONCRETE TYPE SM-3C	TON	1928	1195	3123	12" GATE VALVES	EA	-	6	6
AGGREGATE BASE MATERIAL TYPE I SIZE 21B OR 22	TON	327	115	442	12" 22 1/2 DEGREE BEND	EA	-	1	1
CRUSHER RUN AGGREGATE #25 OR 26	TON	672	59	731	12" 45 DEGREE BEND	EA	-	2	2
MAINTENANCE OF TRAFFIC	LS	0.59	0.41	1.0	12" TEE	EA	-	1	1
TEMPORARY FILTER BARRIER	LF	3270	5838	9108	12" CAP	EA	-	1	1
REGULAR SEEDING	LB	777	419	1196	AIR RELEASE VALVE AND ASSEMBLY	EA	-	4	4
OVERSEEDING	LB	243	131	374	FIRE HYDRANT ASSEMBLY	EA	-	6	6
FERTILIZER (10-20-10)	TON	8.17	4.40	12.57	RELOCATE FIRE HYDRANT	LS	-	1	1
LIME	TON	21.70	11.70	33.40	CONNECTION TO AN EXIST LINE	EA	-	2	2
					16" WATER LINE REMOVAL AND STORAGE	LF	-	1200	1200
					WORK RELATED TO RELOCATION OF ELECTRIC SERVICE	LS	-	1	1

LOCATION	REGULAR EXCAVATIONS			FILL		
	PARTICIPATION		TOTAL	PARTICIPATION		TOTAL
	VDOT	CITY		VDOT	CITY	
THIRLANE ROAD	59,756	12,132	71,888	6,236	10,159	16,395
PAVEMENT DEMOLITION (CUT)	-1,787	-967	-2,754			
SUB TOTAL (PLAN QUANTITY)	57,969	11,165	69,134			
ENTRANCES	2,699	339	3,038	299	158	457
ROOT MAT/TOPSOIL (UNDER FILLS)	2,175	2,033	4,208	2,175	2,033	4,208
PAVEMENT DEMOLITION (FILL)				187	810	997
TOTALS	62,843	13,537	76,380	8,897	13,160	22,057
ROOT MAT/TOPSOIL (IN CUT)	-5,392	-1,208	-6,607			
ROOT MAT/TOPSOIL (UNDER FILLS)	-2,175	-2,033	-4,208			
USEABLE CUT (MEASURED)	55,269	10,296	65,565			
USEABLE CUT (ADJUSTED**)	49,742	9,267	59,009			
SURPLUS (ADJUSTED**)			36,952			
SURPLUS (MEASURED)			41,058			
TOTAL ROOT MAT/TOPSOIL			10,815			

⊗ DENOTES ITEM TO BE PAID FOR ON A BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH CURRENT ROAD AND BRIDGE SPECIFICATIONS.

* QUANTITY IS FOR ESTIMATING PURPOSES ONLY AND SUCH COST SHALL BE INCLUDED IN THE PRICE FOR CEMENT STABILIZED AGGREGATE MATERIAL NO. 21B. HYDRAULIC CEMENT TONNAGE HAS BEEN INCLUDED IN THE QUANTITY FOR THE HYDRAULIC CEMENT STABILIZED AGGREGATE BASE MATERIAL.

** ADJUSTED VOLUMES BASED ON A SHRINKAGE FACTOR OF 10%. THIS FACTOR IS AN ESTIMATE ONLY AND IS NOT GUARANTEED TO BE OBTAINED DURING CONSTRUCTION.

DATE COMPLETED	5/23/89
FEET MAIN	9/30/91
7.194	12" 7" 7"
BLOW OFF	2" 1" 1"
AIR RELEASE	5" 5" 5"
F.H. COMP. 7	
F.H. STUB ONLY	
SERV. INS. BY:	CHIC PAGE-CONTRACTOR
NO. 1/4" SERV. INS.	
CITY OR CO.	CITY
DEPT. INSP.	

PG 4B REMOVE BLOW OFF
Install (1) AIR RELEASE VALVE
641.5' of 12" MAIN

PG 5B (1) 12" G.V.
(1) F.H.
(1) AIR RELEASE VALVE
1480.5' of 12" MAIN

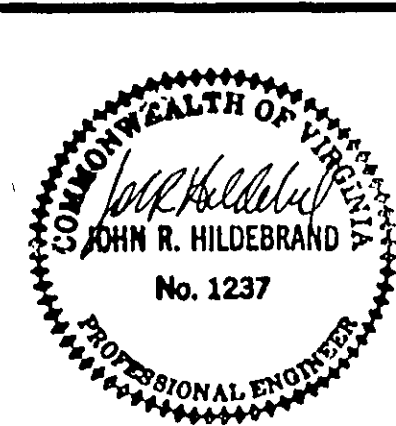
PG 6B (2) 12" G.V.
(1) F.H.
1412.5' of 12" MAIN

PG 7B (1) AIR RELEASE VALVE
(1) 12" G.V.
(1) F.H.
1888.5' of 12" MAIN

PG 8B (2) 12" G.V.
(2) F.H.
772.5' of 12" MAIN

PG 8C (2) AIR RELEASE VALVE
(1) 12" G.V.
(1) F.H.
1376.5' of 12" MAIN

REVISION	DATE	DESCRIPTION	BY	APP
DESIGNED				
DRAWN				
CHECKED				
APPROVED				
SUBMITTED				
HAYES, SEAY, MATTERN & MATTERN AND LUMSDEN ASSOCIATES, P.C.		QUANTITY SUMMARY THIRLANE ROAD WATER DEPARTMENT #90-10 CITY OF ROANOKE, VIRGINIA SCALE DATE JULY 1990 COMM. NO. SHEET		



RECORD DRAWINGS

THESE DRAWINGS RECORDED ON THE BASIS OF INFORMATION FURNISHED BY THE CONTRACTOR OR SPECIFICALLY KNOWN TO HSMM. NO OTHER REPRESENTATIONS ARE MADE OR IMPLIED

Date: NOV. 22 1991