SUMMARY OF QUANTITIES

BA(2)				
3	FA.575 B-(2)		58	3	23

CROSS DRAIN PIPE CULVERTS REQUIRED

STATION	54"	78"	SKEW	L	A	C	TYPE I	SAND OR STONE BAG	CMP OR RCP	CULVERT EXCAV	DITCH EXCAV	SELECT MATL BACKFILL	HEADWALL OR TAPER OVER CULVERT
** 21+13		53'		223		0.5		* 268	63			19	47
19+77	84'		46°	100		0.5	1 EACH	150	37		10	27	6.5
27+00	62'			100		0.5	1 EACH	150				19	4.4
TOTAL	146	53						568	100		10	65	

* 42A STA. 10+29.9
** BEVELED ENDS 1 1/2:1 SLOPE

REINFORCED CONCRETE APPROACH SLAB

Gr. Std. No. 901T A & 901T B

STA TO STA	REINF CONC APPROACH SLAB 30 YDS	CONC SHOULDERS CLASS "A" TYPE II EACH	CONC APRON CU YDS	10" CMP OR SLOPE DRAIN LIN. FT.
18+55 - 18+75	53.38	2	0.34	44
19+93 - 20+13	53.26	2	0.34	48
TOTAL	106.64	4	0.68	92

S.D. & SPCS PIPE CULVERT REQUIRED

STATION	3.0 SECD 15"	18"	SIDE	RAMP CUT	RAMP FILL	SEEDING
18+25		40'	LT		96	50
19+06	60'		ETHAU		150	90
21+35	60'		ETHAU		150	90
25+60		40	FT	112		20
TOTAL	120	80		112	308	120

EARTHWORK

SHEET NO	UNCLASSIFIED EXCAVATION CU YDS	EMBANKMENT CU YDS	OVERHAUL STA YDS	BORROW CU YDS	WASTE CU YDS
5	21170	21835	292593	15043	0
6	3766	146			
TOTAL	6938	21981	292593	15043	0

QUANTITIES

DITCH EXCAV CU YDS	RAMP CUT	RAMP FILL	SELECTED MATERIAL EXCAVATION CU YDS	REQUIRED AND SURPLUS CU YDS	SPECIAL OVERHAUL BOOSTER HAUL TRANS. MATL CU YDS STA YD.
10	112	308		6566	
				466	
				3032	7433

CONCRETE BOX CULVERTS REMOVED

STATION	SIZE	LENGTH	CU YDS
21+13	8'x 4'	25'	360
19+06	4'x 4'	26'	185
27+00	8'x 4'	90	184
TOTAL		720	CU YDS

To be Removed Lump Sum

* ASPHALT PAVING REMOVED

TOTAL 4444 Sq Yds

*Included in Footnote Quantities for Unclassified Excav.

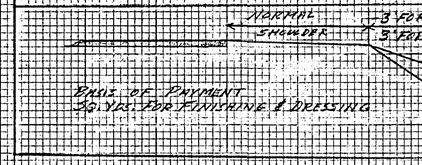
SURFACING QUANTITIES

ITEM	UNIT	NORMAL	ADDITIONAL	TOTAL
CLASS "A" CHERT BASE INCLUDING MATERIAL	CU YD	2357	810	4667
SPECIAL DISTRIBUTION CLASS "A" CHERT BASE	TON MI	10714	620	11334
TRIPLE SURFACE TREATMENT				
FINISHING AND DRESSING	SQ YDS	7560	694	8254
SEEDING SHOULDERS	SQ YDS	5587		5587
SEEDING SLOPES	SQ YDS	5587		5587
FIRST APPLICATION FERTILIZER	TONS	269		269
SECOND APPLICATION FERTILIZER (LBS NITROGEN)	LBS	162		162
AGRICULTURAL LIME	TONS	231		231
WATER FOR SEEDING	M GALS	559		559
BITUMINOUS MULCH	SQ YDS	9396		9396

FINISHING AND DRESSING

ITEM	QUANTITY
FINISHING AND DRESSING	5587 Sq Yds

DETAILS FOR FINISHING & DRESSING



BASIS OF PAYMENT
SQ YDS FOR FINISHING & DRESSING

WATER AND FERTILIZER FOR GRASSING

ITEM	WATER M GALS	FIRST APPLICATION OF FERTILIZER TONS	SECOND APPLICATION OF FERTILIZER LBS OF NITROGEN	AGRICULTURAL LIME TONS
SHOULDERS	1.587	0.69	162	2.31
SLOPES	3.469	0.48	100	1.52
SEEDING S.D. PIPE	0.120	0.01	4	0.05
TOTAL	9.376	1.16	273	3.88

SEEDING OF SHOULDERS AND SLOPES

Gr. Std. No. 903H

SEEDING OF SHOULDERS	5587 Sq Yds
SEEDING OF SLOPES	3689 Sq Yds
TOTAL	9276 Sq Yds

DEEP BEAM HIGHWAY GUARD RAIL

INCL POSTS Gr. Std. Nos 4032 & 4033

STA TO STA	SIDE	LIN FT
18+35 - 18+75	Rt. & Rt.	80
19+93 - 20+33	Rt. & Rt.	80
TOTAL		160

BRIDGE QUANTITIES

BRIDGE OVER DUCK CREEK STA 18+75 TO STA 19+85

ITEM	UNIT	QUANTITY
SUBSTRUCTURE CONCRETE	LUMP	LUMP
CLASS "A" CONCRETE	CU YDS	276.7
BAR REINFORCEMENT STEEL	LBS	31109
STEEL "H" PILING (12 BP 53)	LIN FT	450
STEEL "H" TEST PILES (12 BP 53)	EACH	3
LOADING TEST (AS REQUIRED)	EACH	1
CLEARING AND GRUBBING BRIDGE SITE (LUMP SUM)	ACRES	0.220
SAND CEMENT RIP RAP	SQ YDS	650
OR		
STONE PLAIN RIP RAP	TONS	515
REMOVAL OF EXISTING BRIDGE (60'x 6' CUTEL CONC ARCH)	LUMP	1

ADDITIONAL SURFACING QUANTITIES

NO	ITEM	CHERT VERGE CU YDS	CHERT CULVERT OVERHAUL YD MI YDS	SURFACING SQ YDS
2	CO ROADS	74	148	200
4	FIELDS	50	100	143
2	CULVERT WIDENED	109	218	315
4	DRIVES	97	154	221
	TOTAL	310	620	874

CLEARING AND GRUBBING

CLEARING AND GRUBBING ROADWAY (LUMP SUM)	2.404	ACRES
CLEARING AND GRUBBING	1.000	ACRES

PLATE 3 - CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK