

# ETÜD KARNESİ

BÖLGE MÜD MUĞLA  
İŞLETMESİ AYDIN  
BÖLGESİ KOÇARLI  
YOLUN ADI MURCUM D-KUŞYUVASI T

İŞİN CİNSİ : YENİ YOL  
YOL KOD NO : 655  
PROG UZ. : B-TİPİ  
ETÜD UZ. : 5+127 Km

Kaz. No.	Yol meyli	Arazi yamaç meyli	Ara mesafe	Zemin Klasları					Sanat Y.		Kazı Şevi Uzaklığı		NOT
				Toprak	Küskü	Y.Kaya	S.Kaya	Ç.S.K	Boy	Yük.	G		
				%	%	%	%	%	m	m	m		
1	0	50	0	20	20	30	30		557203-4151230		4,11	(5/1)	
2	11	55	45	20	20	20	40				4,49	(5/1)	
3	11	35	62	20	20	20	40				3,37	(5/1)	
4	10	65	64	10	20	20	50				5,85	(5/1)	
5	10	50	41	10	20	20	50				4,11	(5/1)	
6	5	45	27	10	20	20	50		557418-4151278		3,81	(5/1)	dere
7	10	45	52		10	20	20	50			3,81	(5/1)	
8	7	30	43	10	20	30	40				3,19	(5/1)	
9	-11	30	36	10	20	20	50				3,19	(5/1)	dere
10	-5	40	44		10	20	20	50			3,57	(5/1)	
11	2	30	60	10	10	20	30	30			3,19	(5/1)	
12	7	30	50	20	20	20	40				3,19	(5/1)	
13	9	35	55	10	10	10	30	40			3,37	(5/1)	
14	10	35	57	20	20	30	30				3,37	(5/1)	
15	10	35	42	20	20	30	30				4,70	(5/1)	k.yeri
16	10	50	49	20	20	20	40				4,11	(5/1)	
17	10	40	63	20	20	30	30				3,57	(5/1)	
18	10	50	49	20	20	30	30				4,11	(5/1)	
19	-5	30	25	20	20	20	40		557780-4151637		3,19	(5/1)	dere
20	7	40	52	10	20	30	40				3,57	(5/1)	
21	10	35	61	10	20	20	50				3,37	(5/1)	
22	10	50	62	20	20	20	40				4,11	(5/1)	22-26 kazık arasyukarı d
23	10	50	41	20	20	30	30				4,11	(5/1)	
24	11	35	46			10	10	80			3,37	(5/1)	
25	12	30	31				10	90			3,19	(5/1)	
26	10	35	78	20	20	30	30				3,37	(5/1)	
27	10	40	36	20	20	20	40				4,99	(5/1)	sırt-k.yeri
28	10	40	57	20	20	20	40				3,57	(5/1)	
29	10	45	81	20	20	30	30				3,81	(5/1)	
30	-5	30	21	30	30	30	10		558192-4151855		3,33	(3/1)	dere
31	10	35	66	30	30	20	20				3,52	(3/1)	
32	10	25	57	30	30	30	10				3,15	(3/1)	
33	10	35	59	30	30	30	10				3,52	(3/1)	
34	10	30	41	30	30	30	10				3,33	(3/1)	sırt
35	3	25	80	30	30	30	10				3,15	(3/1)	
36	-9	30	51	30	30	30	10				3,33	(3/1)	dere
37	2	50	22	30	30	20	20				6,16	(3/1)	k.yeri
38	-10	20	58	30	30	20	20				2,98	(3/1)	
39	-11	30	51	10	20	20	50				3,19	(5/1)	
40	-11	35	45	10	30	30	30				3,37	(5/1)	
41	-11	35	59	10	20	20	50				3,37	(5/1)	
42	-11	50	21	10	10	20	20	40			4,11	(5/1)	

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BÖLGESİ KOÇARLI  
YOLUN ADI MURCUM D-KUŞYUVASI T

İşin Cinsi : YENİ YOL  
YOL KOD NO : 655  
PROG UZ. : B-TİPİ  
ETÜD UZ. : 5+127 Km

Kaz. No.	Yol meyli %	Arazi yamaç meyli %	Ara mesafe M	Zemin Klasları					Sanat Y.		Kazı Şevi Uzaklığı G m	NOT
				Toprak	Küskü	Y.Kaya	S.Kaya	Ç.S.K	Boy	Yük.		
				%	%	%	%	%	m	m		
43	-11	35	22	10	10	20	20	40			3,37 (5/1)	
44	-11	25	70	10	10	20	20	40			3,04 (5/1)	
45	-11	30	72	10	10	20	20	40			3,19 (5/1)	
46	-9	35	38	20	20	30	30				5,36 (5/1)	lasse
47	-9	50	44	10	20	30	40				4,11 (5/1)	dere
48	2	50	42		10	10	40	40			4,11 (5/1)	
49	-11	45	66		10	10	40	40			3,81 (5/1)	
50	-9	45	68			10	40	50			3,81 (5/1)	
51	-7	25	58	20	20	20	40				3,04 (5/1)	
52	-9	45	54	20	20	30	30				3,81 (5/1)	
53	5	35	61	10	20	20	40	10			3,37 (5/1)	
54	-9	45	52	10	20	20	40	10			3,81 (5/1)	
55	-9	30	74			10	20	70			3,19 (5/1)	
56	-9	40	99			20	30	50	559052-4151817		5,68 (5/1)	lasse
57	-2	65	46	30	30	20	20				6,52 (3/1)	
58	-5	35	47	30	30	30	10				3,52 (3/1)	
59	-9	25	56	30	30	30	10				3,15 (3/1)	
60	-9	45	46	30	30	30	10				4,08 (3/1)	
61	-12	70	78				10	90			7,20 (5/1)	
62	-9	30	31				20	80			3,19 (5/1)	
63	2	40	67	30	30	30	10				3,78 (3/1)	
64	5	35	48	30	30	30	10				4,91 (3/1)	k.yeri
65	5	45	42	10	20	30	40				3,81 (5/1)	
66	-9	40	43	20	20	30	30		558805-4152025		3,57 (5/1)	dere
67	2	65	57	30	30	30	10				6,52 (3/1)	
68	-9	60	49	30	30	30	10				5,46 (3/1)	
69	-9	30	63	30	30	30	10				3,33 (3/1)	
70	-9	35	39	30	30	30	10				3,52 (3/1)	
71	-9	40	49	10	20	30	40				3,57 (5/1)	dere
72	11	30	48	30	30	30	10				3,33 (3/1)	
73	-2	25	55	10	10	30	50		559028-4152065		3,04 (5/1)	dere
74	-2	40	46	30	30	20	20				3,78 (3/1)	
75	-9	55	43	20	20	20	40				6,27 (5/1)	k.yeri
76	-11	30	56		10	20	50	20			3,19 (5/1)	
77	-11	60	70				10	90			5,00 (5/1)	
78	-9	35	59			10	10	80	559286-4152095		5,36 (5/1)	lasse
79	-9	35	46			10	10	80			3,37 (5/1)	
80	-9	60	38			10	10	80			5,00 (5/1)	dere
81	2	35	37	10	20	20	40	10			3,37 (5/1)	
82	-12	30	59	10	20	20	40	10			3,19 (5/1)	
83	-12	50	46	10	20	30	40				4,11 (5/1)	t.yolu
84	-12	45	39	10	20	30	40				3,81 (5/1)	
85	-9	45	27	10	20	30	40				3,81 (5/1)	
86	2	55	34	10	20	30	40				6,27 (5/1)	k.yeri
87	-12	30	52	30	30	30	10				3,33 (3/1)	
88	-12	35	74	20	20	30	30				3,37 (5/1)	
89	-12	35	43	10	20	30	40				3,37 (5/1)	
90	-10	25	46	30	30	30	10		559500-4152304		3,15 (3/1)	dere
91	4	20	62	30	30	20	20				2,98 (3/1)	
92	-9	45	43	20	20	20	40				3,81 (5/1)	
93	-3	35	29	30	30	20	20		559625-4152287		4,91 (3/1)	dere-k.yeri
94	7	35	42	30	30	20	20				3,52 (3/1)	
95	7	25	52	30	30	30	10				3,15 (3/1)	

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İŞİN CİNSİ : YENİ YOL  
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PROG UZ. : B-TİPİ  
ETÜD UZ. : 5+127 Km

Kaz. No.	Yol meyli	Arazi yamaç meyli	Ara mesafe	Zemin Klasları					Sanat Y.		Kazı Şevi Uzaklığı G	NOT
				Toprak	Küskü	Y.Kaya	S.Kaya	Ç.S.K	Boy	Yük.		
				%	%	%	%	%	m	m		
96	-9	30	51	30	30	30	10				3,33 (3/1)	
97	-9	25	72	30	30	20	20				3,15 (3/1)	
98	7	65	43	30	30	30	10		559846-4152553		6,52 (3/1)	dere
99	2	30	48	30	30	20	20				3,33 (3/1)	
100	-7	20	46	20	20	30	30				2,90 (5/1)	
101	-9	25	42	30	30	30	10		559859-4152723		3,15 (3/1)	dere
102	5	35	58	30	30	30	10				3,52 (3/1)	yol sonu
TOPLAM			5127									

Tarafımızdan düzenlendi.

9.02.2022

Serkan ERTEK  
İşletme Şefi



**METRAJ CETVELİ**

BÖLGE MD.LÜĞÜ : MUĞLA  
İŞLETMESİ : AYDIN  
BÖLGESİ : KOÇARLI  
YOLUN ADI : MURCUM D-KUŞYUVASI T

İŞİN CİNSİ : YENİ YOL  
YOL KOD NO : 655  
PROGRAM UZ.LÜĞÜ : B-TİPİ  
KEŞİF UZUNLUĞU : 5+127 Km

Kazık No	Mesafe	Arazi Yamaç Meyili	Kazı Alanı	Ort. Saha	Enkesit. Arası Mesafe	Kazı Miktarı	Zemin Klasları				
							Toprak	Küskü	Y. Kaya	Sert Kaya	Ç.Sert Kaya
	Km	%	M <sup>2</sup>	M <sup>2</sup>	M	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M3
2	0+045	55	3,96	3,59	45	161,550	32,310	32,310	32,310	64,620	
3	0+107	35	1,82	2,89	62	179,180	35,836	35,836	35,836	71,672	
4	0+171	65	6,99	4,41	64	282,240	28,224	56,448	56,448	141,120	
5	0+212	50	3,22	5,11	41	209,510	20,951	41,902	41,902	104,755	
6	0+239	45	2,64	2,93	27	79,110	7,911	15,822	15,822	39,555	
7	0+291	45	2,64	2,64	52	137,280		13,728	27,456	27,456	68,640
8	0+334	30	1,50	2,07	43	89,010	8,901	17,802	26,703	35,604	
9	0+370	30	1,50	1,50	36	54,000	5,400	10,800	10,800	27,000	
10	0+414	40	2,21	1,86	44	81,840		8,184	16,368	16,368	40,920
11	0+474	30	1,50	1,86	60	111,600	11,160	11,160	22,320	33,480	33,480
12	0+524	30	1,50	1,50	50	75,000	15,000	15,000	15,000	30,000	
13	0+579	35	1,82	1,66	55	91,300	9,130	9,130	9,130	27,390	36,520
14	0+636	35	1,82	1,82	57	103,740	20,748	20,748	31,122	31,122	
15	0+678	35	3,38	2,60	42	109,200	21,840	21,840	32,760	32,760	
16	0+727	50	3,22	3,30	49	161,700	32,340	32,340	32,340	64,680	
17	0+790	40	2,21	2,72	63	171,360	34,272	34,272	51,408	51,408	
18	0+839	50	3,22	2,72	49	133,280	26,656	26,656	39,984	39,984	
19	0+864	30	1,50	2,36	25	59,000	11,800	11,800	11,800	23,600	
20	0+916	40	2,21	1,86	52	96,720	9,672	19,344	29,016	38,688	
21	0+977	35	1,82	2,02	61	123,220	12,322	24,644	24,644	61,610	
22	1+039	50	3,22	2,52	62	156,240	31,248	31,248	31,248	62,496	
23	1+080	50	3,22	3,22	41	132,020	26,404	26,404	39,606	39,606	
24	1+126	35	1,82	2,52	46	115,920			11,592	11,592	92,736
25	1+157	30	1,50	1,66	31	51,460				5,146	46,314
26	1+235	35	1,82	1,66	78	129,480	25,896	25,896	38,844	38,844	
27	1+271	40	4,12	2,97	36	106,920	21,384	21,384	21,384	42,768	
28	1+328	40	2,21	3,17	57	180,690	36,138	36,138	36,138	72,276	
29	1+409	45	2,64	2,43	81	196,830	39,366	39,366	59,049	59,049	
30	1+430	30	1,56	2,10	21	44,100	13,230	13,230	13,230	4,410	
31	1+496	35	1,89	1,73	66	114,180	34,254	34,254	22,836	22,836	
32	1+553	25	1,24	1,57	57	89,490	26,847	26,847	26,847	8,949	
33	1+612	35	1,89	1,57	59	92,630	27,789	27,789	27,789	9,263	
34	1+653	30	1,56	1,73	41	70,930	21,279	21,279	21,279	7,093	
35	1+733	25	1,24	1,40	80	112,000	33,600	33,600	33,600	11,200	
36	1+784	30	1,56	1,40	51	71,400	21,420	21,420	21,420	7,140	
37	1+806	50	6,49	4,03	22	88,660	26,598	26,598	17,732	17,732	
38	1+864	20	0,97	3,73	58	216,340	64,902	64,902	43,268	43,268	
39	1+915	30	1,50	1,24	51	63,240	6,324	12,648	12,648	31,620	
40	1+960	35	1,82	1,66	45	74,700	7,470	22,410	22,410	22,410	
41	2+019	35	1,82	1,82	59	107,380	10,738	21,476	21,476	53,690	
42	2+040	50	3,22	2,52	21	52,920	5,292	5,292	10,584	10,584	21,168
43	2+062	35	1,82	2,52	22	55,440	5,544	5,544	11,088	11,088	22,176
44	2+132	25	1,22	1,52	70	106,400	10,640	10,640	21,280	21,280	42,560
45	2+204	30	1,50	1,36	72	97,920	9,792	9,792	19,584	19,584	39,168
46	2+242	35	4,35	2,93	38	111,340	22,268	22,268	33,402	33,402	
47	2+286	50	3,22	3,79	44	166,760	16,676	33,352	50,028	66,704	
48	2+328	50	3,22	3,22	42	135,240		13,524	13,524	54,096	54,096
49	2+394	45	2,64	2,93	66	193,380		19,338	19,338	77,352	77,352
50	2+462	45	2,64	2,64	68	179,520			17,952	71,808	89,760

**METRAJ CETVELİ**

BÖLGE MD.LÜĞÜ : MUĞLA  
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YOLUN ADI : MURCUM D-KUŞYUVASI T

İŞİN CİNSİ : YENİ YOL  
YOL KOD NO : 655  
PROGRAM UZ.LUĞU : B-TİPİ  
KEŞİF UZUNLUĞU : 5+127 Km

Kazık No	Mesafe	Arazi Yamaç Meyili	Kazı Alanı	Ort. Saha	Enkesit. Arası Mesafe	Kazı Miktarı	Zemin Klasları				
							Toprak	Küskü	Y. Kaya	Sert Kaya	Ç.Sert Kaya
	Km	%	M <sup>2</sup>	M <sup>2</sup>	M	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>
51	2+520	25	1,22	1,93	58	111,940	22,388	22,388	22,388	44,776	
52	2+574	45	2,64	1,93	54	104,220	20,844	20,844	31,266	31,266	
53	2+635	35	1,82	2,23	61	136,030	13,603	27,206	27,206	54,412	13,603
54	2+687	45	2,64	2,23	52	115,960	11,596	23,192	23,192	46,384	11,596
55	2+761	30	1,50	2,07	74	153,180			15,318	30,636	107,226
56	2+860	40	5,30	3,40	99	336,600			67,320	100,980	168,300
57	2+906	65	7,78	6,54	46	300,840	90,252	90,252	60,168	60,168	
58	2+953	35	1,89	4,84	47	227,480	68,244	68,244	68,244	22,748	
59	3+009	25	1,24	1,57	56	87,920	26,376	26,376	26,376	8,792	
60	3+055	45	2,82	2,03	46	93,380	28,014	28,014	28,014	9,338	
61	3+133	70	10,65	6,74	78	525,720				52,572	473,148
62	3+164	30	1,50	6,08	31	188,480				37,696	150,784
63	3+231	40	2,31	1,91	67	127,970	38,391	38,391	38,391	12,797	
64	3+279	35	3,49	2,90	48	139,200	41,760	41,760	41,760	13,920	
65	3+321	45	2,64	3,07	42	128,940	12,894	25,788	38,682	51,576	
66	3+364	40	2,21	2,43	43	104,490	20,898	20,898	31,347	31,347	
67	3+421	65	7,78	5,00	57	285,000	85,500	85,500	85,500	28,500	
68	3+470	60	5,45	6,62	49	324,380	97,314	97,314	97,314	32,438	
69	3+533	30	1,56	3,51	63	221,130	66,339	66,339	66,339	22,113	
70	3+572	35	1,89	1,73	39	67,470	20,241	20,241	20,241	6,747	
71	3+621	40	2,21	2,05	49	100,450	10,045	20,090	30,135	40,180	
72	3+669	30	1,56	1,89	48	90,720	27,216	27,216	27,216	9,072	
73	3+724	25	1,22	1,39	55	76,450	7,645	7,645	22,935	38,225	
74	3+770	40	2,31	1,77	46	81,420	24,426	24,426	16,284	16,284	
75	3+813	55	7,56	4,94	43	212,420	42,484	42,484	42,484	84,968	
76	3+869	30	1,50	4,53	56	253,680		25,368	50,736	126,840	50,736
77	3+939	60	5,02	3,26	70	228,200				22,820	205,380
78	3+998	35	4,35	4,69	59	276,710			27,671	27,671	221,368
79	4+044	35	1,82	3,09	46	142,140			14,214	14,214	113,712
80	4+082	60	5,02	3,42	38	129,960			12,996	12,996	103,968
81	4+119	35	1,82	3,42	37	126,540	12,654	25,308	25,308	50,616	12,654
82	4+178	30	1,50	1,66	59	97,940	9,794	19,588	19,588	39,176	9,794
83	4+224	50	3,22	2,36	46	108,560	10,856	21,712	32,568	43,424	
84	4+263	45	2,64	2,93	39	114,270	11,427	22,854	34,281	45,708	
85	4+290	45	2,64	2,64	27	71,280	7,128	14,256	21,384	28,512	
86	4+324	55	7,56	5,10	34	173,400	17,340	34,680	52,020	69,360	
87	4+376	30	1,56	4,56	52	237,120	71,136	71,136	71,136	23,712	
88	4+450	35	1,82	1,69	74	125,060	25,012	25,012	37,518	37,518	
89	4+493	35	1,82	1,82	43	78,260	7,826	15,652	23,478	31,304	
90	4+539	25	1,24	1,53	46	70,380	21,114	21,114	21,114	7,038	
91	4+601	20	0,97	1,11	62	68,820	20,646	20,646	13,764	13,764	
92	4+644	45	2,64	1,81	43	77,830	15,566	15,566	15,566	31,132	
93	4+673	35	3,49	3,07	29	89,030	26,709	26,709	17,806	17,806	
94	4+715	35	1,89	2,69	42	112,980	33,894	33,894	22,596	22,596	
95	4+767	25	1,24	1,57	52	81,640	24,492	24,492	24,492	8,164	
96	4+818	30	1,56	1,40	51	71,400	21,420	21,420	21,420	7,140	
97	4+890	25	1,24	1,40	72	100,800	30,240	30,240	20,160	20,160	
98	4+933	65	7,78	4,51	43	193,930	58,179	58,179	58,179	19,393	
99	4+981	30	1,56	4,67	48	224,160	67,248	67,248	44,832	44,832	



**METRAJ CETVELİ**

BÖLGE MD.LÜĞÜ : MUĞLA  
İŞLETMESİ : AYDIN  
BÖLGESİ : KOÇARLI  
YOLUN ADI : MURCUM D-KUŞYUVASI T

İŞİN CİNSİ : YENİ YOL  
YOL KOD NO : 655  
PROGRAM UZ.LUĞU : B-TİPİ  
KEŞİF UZUNLUĞU : 5+127 Km

Kazık No	Mesafe	Arazi Yamaç Meyili	Kazı Alanı	Ort. Saha	Enkesit. Arası Mesafe	Kazı Miktarı	Zemin Klasları				
							Toprak	Küskü	Y. Kaya	Sert Kaya	Ç.Sert Kaya
	Km	%	M <sup>2</sup>	M <sup>2</sup>	M	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M <sup>3</sup>	M3
100	5+027	20	0,96	1,26	46	57,960	11,592	11,592	17,388	17,388	
101	5+069	25	1,24	1,10	42	46,200	13,860	13,860	13,860	4,620	
102	5+127	35	1,89	1,57	58	91,060	27,318	27,318	27,318	9,106	
TOPLAM					5127	13614,470	2211,493	2558,857	2951,858	3585,103	2307,159

Tarafımızdan düzenlendi.

9.02.2022

Serkan ERTEK  
İşletme Şefi