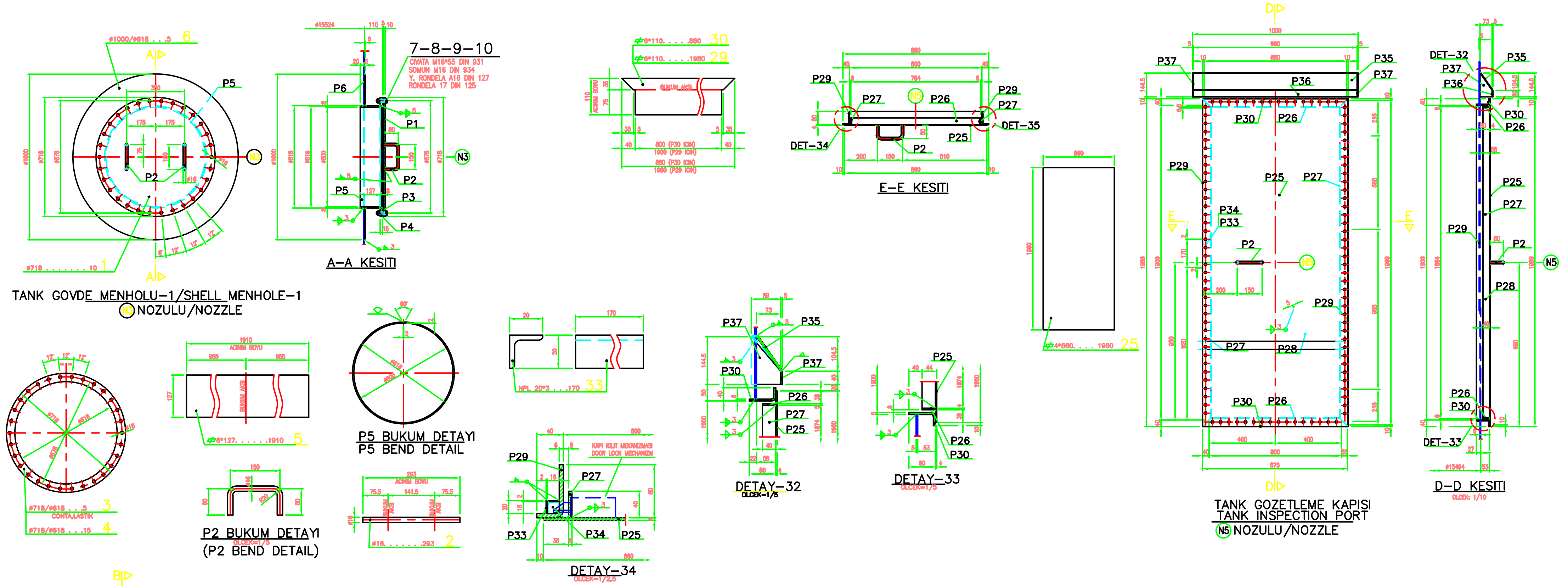
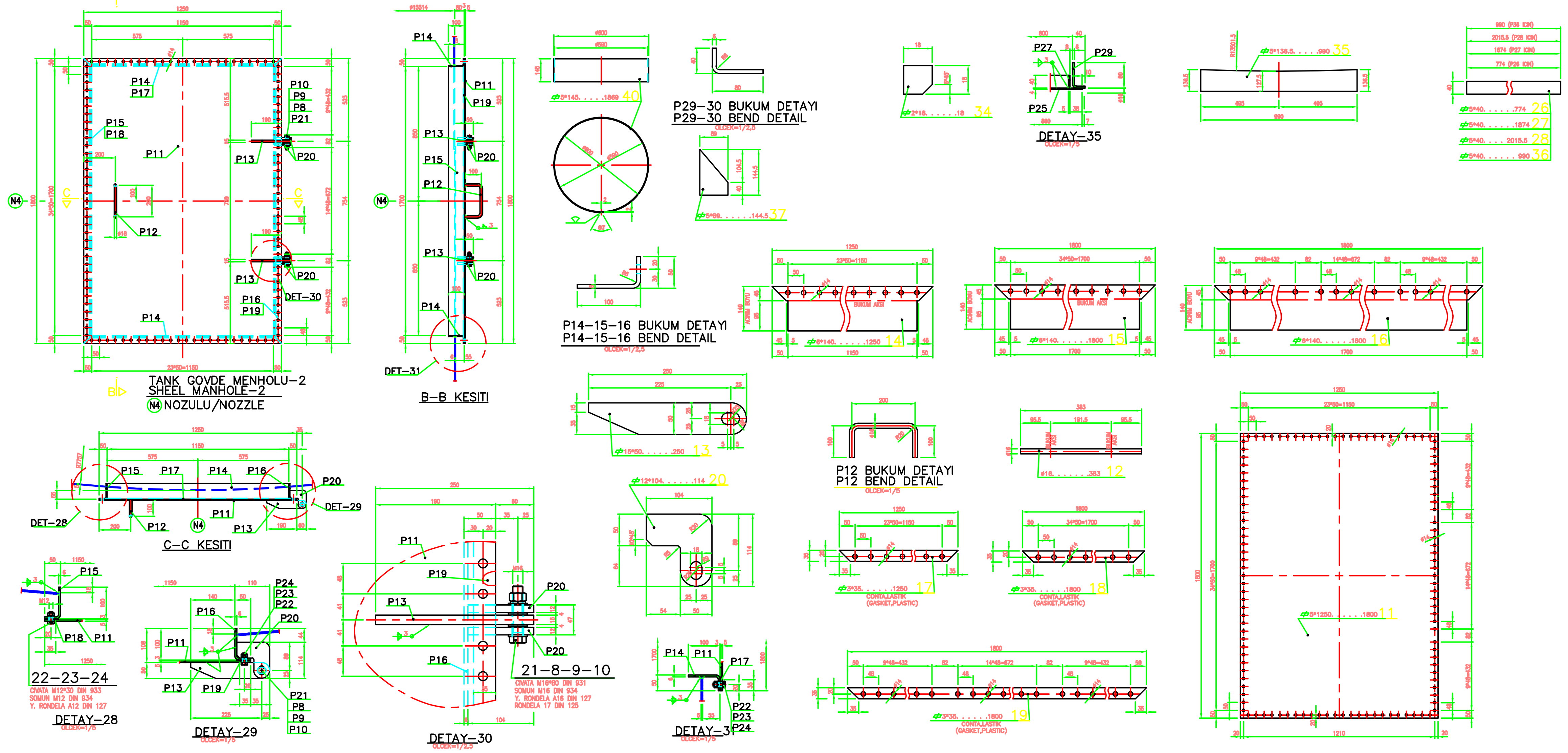

ø1000/ø618 . . .5 6
P5
P2
N3
ø718 . . . . 10 1
TANK GOVDE MENHOLU-1/SHELL MENHOLE-1
N3 NOZULU/NOZZLE
7-8-9-10
CIVATA M16*55 DIN 931
SOMUN M16 DIN 934
Y. RONDELA A16 DIN 127
RONDELA 17 DIN 125
P6
P1
P3
P4
A-A KESITI
ø718/ø618 . . .5 3
CONTA,LASTIK
ø718/ø618 . . .15 4
ф8*127. . . . . .1910 5
P2 BUKUM DETAYI
(P2 BEND DETAIL)
OLCEK=1/5
P5 BUKUM DETAYI
P5 BEND DETAIL
ø16. . . . . . .293 2
NPL 20*3 . . .170 33
ф6*110. . . . .880 30
ф6*110. . . . .1980 29
P29
P27
P33
P34
P25
KAPI KILIT MEKANIZMASI
DOOR LOCK MECHANIZM
DETAY-34
OLCEK=1/2,5
P26
DET-34
DET-35
E-E KESITI
ф4*860. . . . 1960 25
P37
P35
P30
DETAY-32
OLCEK=1/5
DETAY-33
OLCEK=1/5
P36
P28
N5
TANK GOZETLEME KAPISI
TANK INSPECTION PORT
N5 NOZULU/NOZZLE
DET-32
DET-33
D-D KESITI
OLCEK: 1/10


P14
P17
P15
P18
P11
P12
P13
P10
P9
P8
P21
P20
P16
P19
DET-30
N4
TANK GOVDE MENHOLU-2
SHEEL MANHOLE-2
N4 NOZULU/NOZZLE
DET-31
B-B KESITI
ф5*145. . . . .1869 40
P29-30 BUKUM DETAYI
P29-30 BEND DETAIL
OLCEK=1/2,5
ф5*89. . . . . .144.5 37
ф2*18. . . . . .18 34
P27
P29
P25
DETAY-35
OLCEK=1/5
ф5*136.5. . . . .990 35
990 (P36 ICIN)
2015.5 (P28 ICIN)
1874 (P27 ICIN)
774 (P26 ICIN)
ф5*40. . . . . .774 26
ф5*40. . . . . .1874 27
ф5*40. . . . 2015.5 28
ф5*40. . . . . . 990 36
P14-15-16 BUKUM DETAYI
P14-15-16 BEND DETAIL
OLCEK=1/2,5
ф6*140. . . . . .1250 14
ф6*140. . . . . .1800 15
ф6*140. . . . . .1800 16
ф15*50. . . . . .250 13
ф12*104. . . . . .114 20
P12 BUKUM DETAYI
P12 BEND DETAIL
OLCEK=1/5
ø16. . . . . . .383 12
ф3*35. . . . . .1250 17
ф3*35. . . . . .1800 18
ф3*35. . . . . .1800 19
CONTA,LASTIK
(GASKET,PLASTIC)
ф5*1250. . . . .1800 11
DET-28
DET-29
C-C KESITI
22-23-24
CIVATA M12*30 DIN 933
SOMUN M12 DIN 934
Y. RONDELA A12 DIN 127
DETAY-28
OLCEK=1/5
P24
P23
P22
DETAY-29
OLCEK=1/5
21-8-9-10
CIVATA M16*80 DIN 931
SOMUN M16 DIN 934
Y. RONDELA A16 DIN 127
RONDELA 17 DIN 125
DETAY-30
OLCEK=1/2,5
DETAY-31
OLCEK=1/5

KAYNAK SEMBOLU : KÖŞE KAYNAĞI KALINLIĞI : a
WELD SYMBOL : BORDER WELDİN THICKNES : a

UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN mm
AKSİ BELİRTİLMEDİKÇE TÜM ÖLÇÜLER mm DİR

GENEL NOTLAR/GENERAL NOTES

Not-1 : Tank gövde malzemesi ASTM A 283 GR C /S235 JR(ST 37.2) kalitesinde olacaktır.

Membranın bağlantı civataları takviyeli kauçuktan imal edilecektir.
Belirtilmeyen kaynaklar sürekli olacaktır.
Belirtilmeyen kaynak kalınlıkları , ince elemanın 0,7 si kadar olacaktır. (a=0,7xtmin)
Kaynak kalınlıkları 3 mm den az olmayacaktır.
Tüm çelik elemanlar SA 2 1/2" kalitesinde kumlanacak ve 200 mikron epoksi ile boyanacaktır
Bütün kaynaklar sızdırmaz olacaktır. Taban sızdırmazlık testine tabi tutulacaktır.
Kaynak verileri : DIN 1912 ; TS-1987 , ISO -2553-1984

Note-1 :Tank body material willl be ASTM A 283 GR C / S235 JR (ST 37.2) quality

The membrane connection bolts will be made of reinforced rubber.
All Weldins will be continuous unless otherwise stated is not
Not specify the weld thickness, thin element will be up to 0.7 (a=0,7xtmin)
All weld thickness.will not be less than 3 mm
All steel components will be sand blasting according to SA 2 1/2 "-quality and will be (internal and external surface) painted with 200 microns epoxy
All welds will be tight. Tank bottom will be leakage test
Welding standart : DIN 1912 ; TS-1987 , ISO -2553-1984

TANK GOVDE MENHOLU-1 / MANHOLE-1 TANK BODY

POZ NO POSES NO	PARCA ADI PIECES ADI	ADET EACH	MALZEME MATERIAL	[illegible]	[illegible]	NOT / NOTE
1	ø718 10	1	St.37.2	–	31.78	
2	ø16. 293	2	St.37	0.46	0.92	
3						
4	ø718/ø618 . . .15	1	St.37.2	–	12.35	
5	ф8*127. 1910	1	St.37.2	–	15.23	
6	ø1000/ø618 . . .5	1	St.37.2	–	19.05	
7	CIVATA M16*55	30	8.8	0.11	3.45	DIN 931
8	SOMUN M16	30	8	0.03	1.00	DIN 934
9	Y. RONDELA A16	30	St	–	0.26	DIN 127
10	RONDELA 17	30	St	0.01	0.34	DIN 125
				TOTAL WEIGHT(kg)	85.04	

TANK GOVDE MENHOLU-2 / MANHOLE-2 TANK BODY

POZ NO POSES NO	PARCA ADI PIECES ADI	ADET EACH	MALZEME MATERIAL	[illegible]	[illegible]	NOT / NOTE
8	SOMUN M16	2	8	0.03	0.06	DIN 934
9	Y. RONDELA A16	2	St	–	0.02	DIN 127
10	RONDELA 17	8	St	0.01	0.09	DIN 125
11	ф5*1250. 1800	1	St.37.2	–	88.31	
12	ø16. 383	1	St.37	–	0.60	
13	ф15*50. 250	2	St.37.2	1.47	2.94	
14	ф6*140. 1250	2	St.37.2	8.24	16.48	
15	ф6*140. 1800	1	St.37.2	–	11.87	
16	ф6*140. 1800	1	St.37.2	–	11.87	
17	ф3*35. 1250	2	LASTIK	0.16	0.33	CONTA
18	ф3*35. 1800	1	LASTIK	–	0.23	CONTA
19	ф3*35. 1800	1	LASTIK	–	0.23	CONTA
20	ф12*104. 114	4	St.37.2	1.11	4.46	
21	CIVATA M16*80	2	8.8	0.15	0.31	DIN 931
22	CIVATA M12*30	118	8.8	0.04	4.74	DIN 933
23	SOMUN M12	118	8	0.02	2.04	DIN 934
24	Y. RONDELA A12	118	St	–	0.45	DIN 127
				TOTAL WEIGHT(kg)	145.03	

TANK GOZETLEME KAPISI / TANK ISNPECTION PORT

POZ NO POSES NO	PARCA ADI PIECES ADI	ADET EACH	MALZEME MATERIAL	[illegible]	[illegible]	NOT / NOTE
2	ø16. 293	1	St.37	–	0.46	
25	ф4*860. . . . 1960	1	St.37.2	–	52.93	
26	ф5*40. 774	2	St.37.2	1.21	2.43	
27	ф5*40. 1874	2	St.37.2	2.94	5.88	
28	ф5*40. . . . 2015.5	1	St.37.2	–	3.16	
29	ф6*110. 1980	2	St.37.2	10.26	20.51	
30	ф6*110. 880	2	St.37.2	4.56	9.12	
31						
32						
33						
34	ф2*18. 18	2	St.37.2	–	0.01	
35	ф5*136.5. 990	1	St.37.2	–	5.30	
36	ф5*40. 990	1	St.37.2	–	1.55	
37	ф5*89. . . . . .144.5	2	St.37.2	0.50	1.00	
				TOTAL WEIGHT(kg)	103.70	

TANK CATI MENHOLU / TANK ROOF MANHOLE

POZ NO POSES NO	PARCA ADI PIECES ADI	ADET EACH	MALZEME MATERIAL	[illegible]	[illegible]	NOT / NOTE
2	ø16. 293	1	St.37	–	0.46	
8	SOMUN M16	2	8	0.03	0.06	DIN 934
9	Y. RONDELA A16	2	St	–	0.02	DIN 127
38						
39						
40	ф5*145. 1869	1	St.37.2	0.50	1.00	
41						
42						
43						
				TOPLAM AĞIRLIK(kg) TOTAL WEIGHT(kg)	25.95	

T.C.
ANTALYA BÜYÜKŞEHİR BELEDİYESİ
SU VE ATIKSU İDARESİ GENEL MÜDÜRLÜĞÜ
ANTALYA METROPOLITAN MUNICIPALITY
Water And Wastewater Administration General Directorate

HURMA ATIKSU ARITMA TESİSİ GENİŞLETİLMESİ
EXTENSION OF HURMA WASTEWATER TREATMENT PLANT

Onay: ASAT Genel Müdürlüğü
CONTRACT APPROVAL:CONTRACTOR

Onay: Proje Yürütme Birimi
ALDAŞ A.Ş.
CONTRACT APPROVAL:PROJECT IMPLEMENTATION UNIT

PROJE AŞAMASI
İŞ SONU ÇİZİMLERİ / AS-BUILT DRAWINGS

ONAY :YÜKLENİCİ
CONTRACT APPROVAL:CONTRACTOR

ONAY :MÜHENDİS
CONTRACT APPROVAL:ENGINEER
COWI
JOINT VENTURE
AYAZMA DERESİ CADDESİ NO : 34 KAT 1-2-3
34349 GAYRETTEPE/İSTANBUL
TEL:0212 212 98 05 FAKS:0212 212 98 07

YÜKLENİCİ
CONTRACTOR

PROJE/DESIGNER:
SRD 3K

PROJE-ONAY/DESIGNER-QUALITY ASSURANCE:

	TARİH/DATE	İSİM/NAME	İMZA/SIGN.		TARİH/DATE	İSİM/NAME	İMZA/SIGN.
TASARIM DESIGNED BY	KASIM - 2011	EROL DAĞ		KONTROL CHECKED BY	KASIM - 2011	CENGİZ ŞAŞO	
ÇİZEN DRAWN BY	KASIM - 2011	EROL DAĞ		ONAY APPROVED BY	KASIM - 2011	MURAT İNAL	

EXTENSION OF HURMA WASTEWATER TREATMENT PLANT
HURMA ATIKSU ARITMA TESİSİ GENİŞLETİLMESİ

MENHOL, NOZULLARI IMALAT DETAYLARI

MANHOLE, NOZZLE PRODUCTION DETAILS

ÖLÇEK SCALE 1/10
RESİM NO. DRAWING NO. HURMA-46-M-MP-15
REV. NO. REV. NO. 2