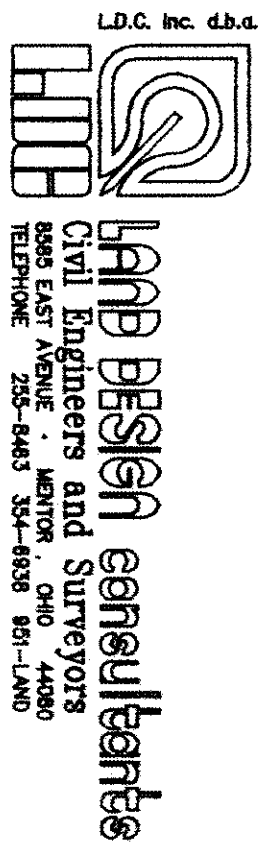


SITE PLAN

for : Moreland Construction CLIENT

2865 Sanctuary Dr. STREET Kirtland Hills CITY

14 Subplot No. 14 Call Woods Subd. No. 126 VOL. 22
89.10 TRACT 1 SUBDIVISION NAME Concord TOWNSHIP OHIO

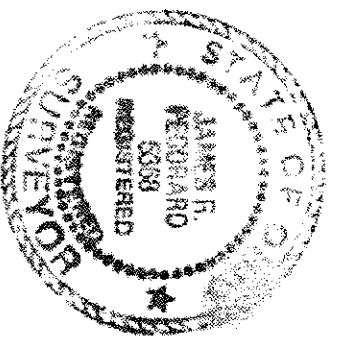


DESIGN CERTIFICATION

THIS PLAT WAS PREPARED BY ME, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHECK LIST

NAME: [Signature]
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS SURVEY WAS MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED SURVEYOR IN THE STATE OF OHIO. I HAVE REVIEWED THE PLAT AND THE FIELD NOTES AND FIND THEM TO BE CORRECT AND COMPLETE. I HAVE ALSO REVIEWED THE PLAT FOR CONFORMANCE WITH THE REQUIREMENTS OF THE OHIO REVISION ACT OF 1994 AND FIND IT TO BE IN COMPLIANCE WITH THE ACT. I HAVE ALSO REVIEWED THE PLAT FOR CONFORMANCE WITH THE REQUIREMENTS OF THE OHIO REVISION ACT OF 1994 AND FIND IT TO BE IN COMPLIANCE WITH THE ACT. I HAVE ALSO REVIEWED THE PLAT FOR CONFORMANCE WITH THE REQUIREMENTS OF THE OHIO REVISION ACT OF 1994 AND FIND IT TO BE IN COMPLIANCE WITH THE ACT.



"AS BUILT" CERTIFICATION
I HEREBY CERTIFY THAT THE CIRCLED INFORMATION IS EXISTING AS OBTAINED ON THE SITE 1994 AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NAME

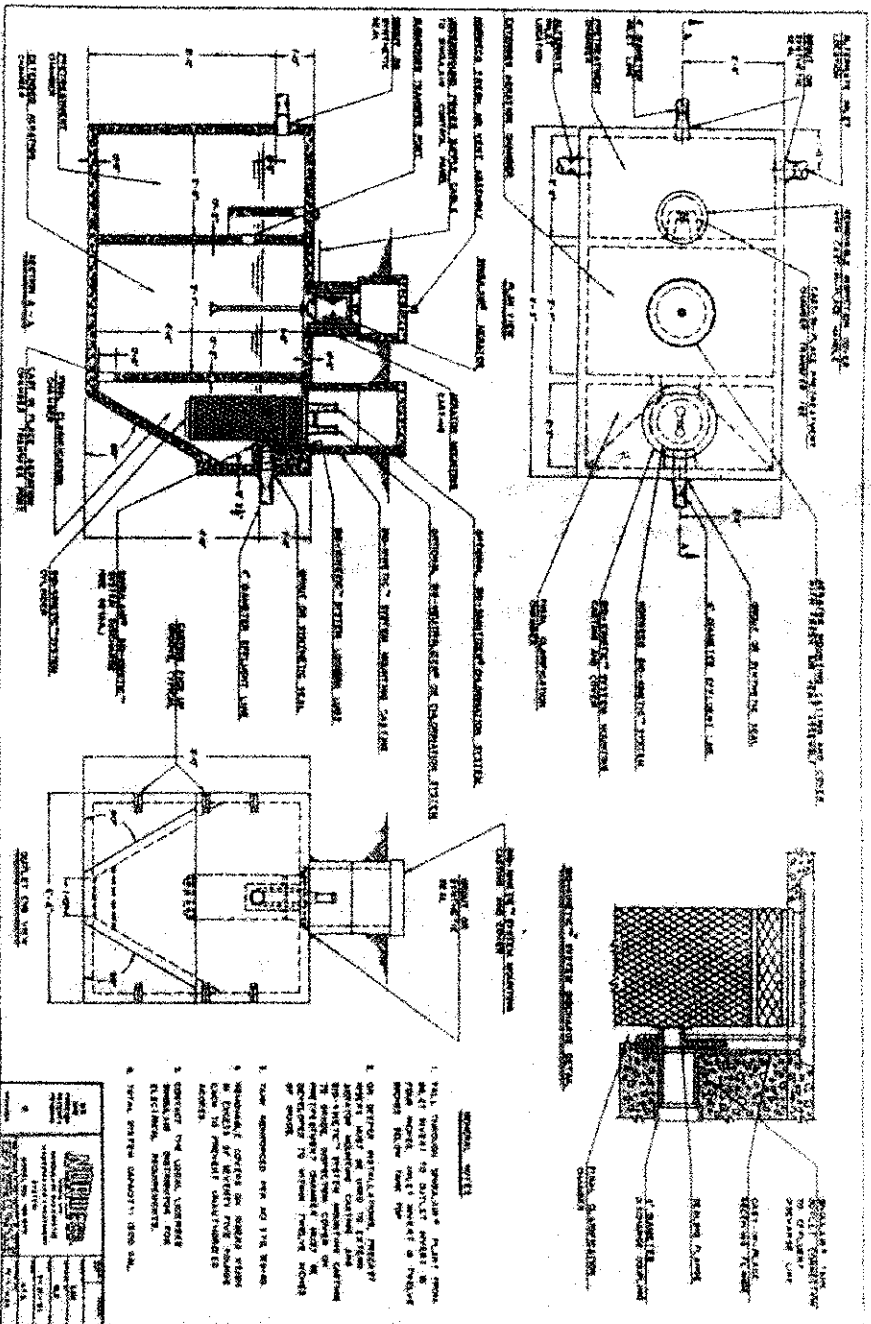
LEGEND

SYMBOL	DESCRIPTION	SCALE
●	DRYIN BY	1"=30'-0"
○	G.S.V./J.B.R.	1"=30'-0"
○	CH'D BY/FIELD DATE	
○	R.A.T./S.A.S.	July, 1997
○	100.0 PROP. ELEV.	
○	DIRECTION OF SURFACE DRAINAGE	
○	2	

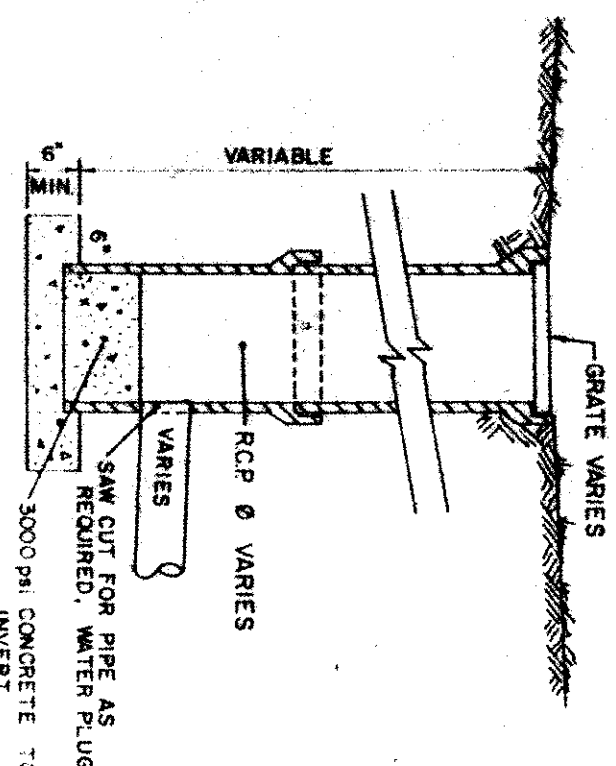
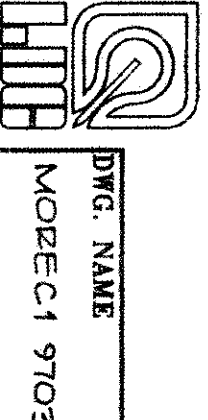
ACCEPTED: G.B.T. DATE

BENCHMARK: B.M. = T.B.M. Set On Top Of Hydrant Located Opposite S/L 14; Elev. 956.76

EXISTING UNDERGROUND UTILITIES NOTE:
THE SIZE & LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL EXISTING UNDERGROUND UTILITIES HAVE BEEN OBTAINED BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, LDC INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.



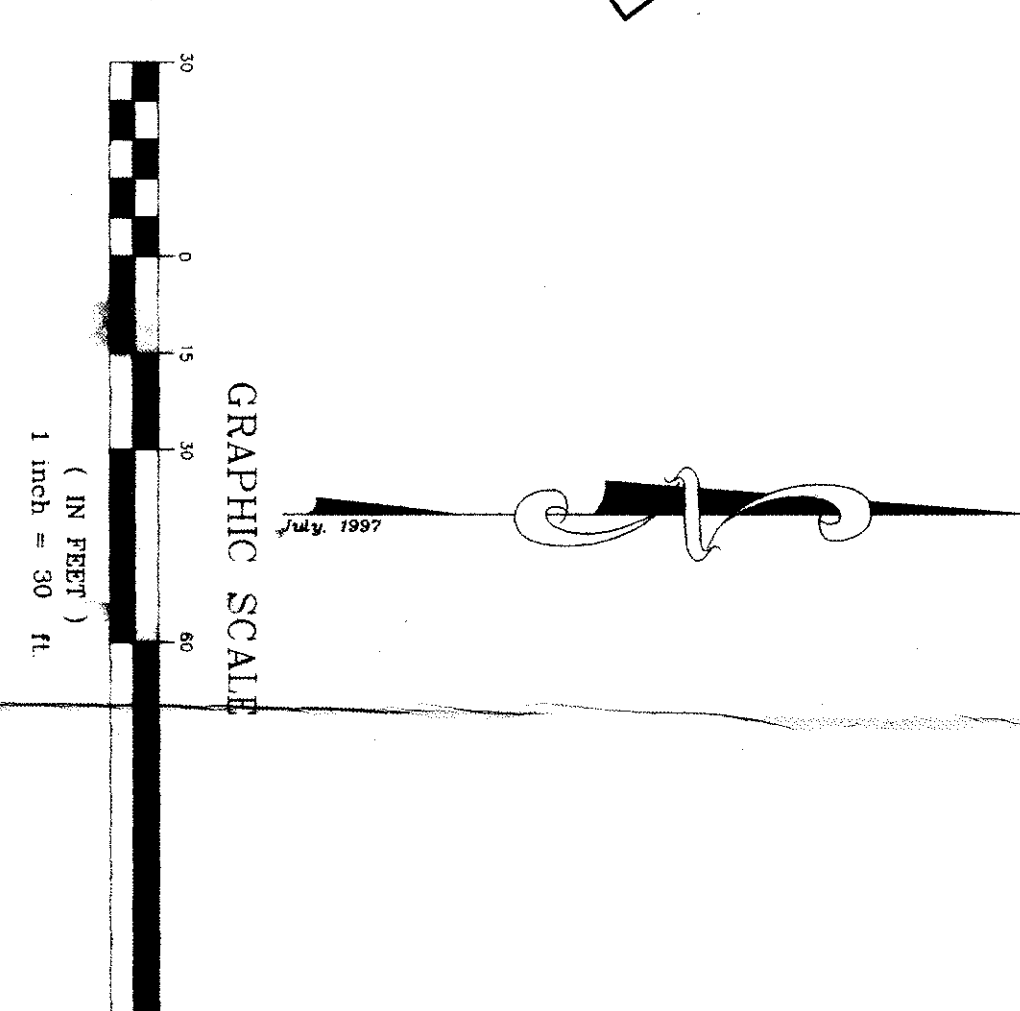
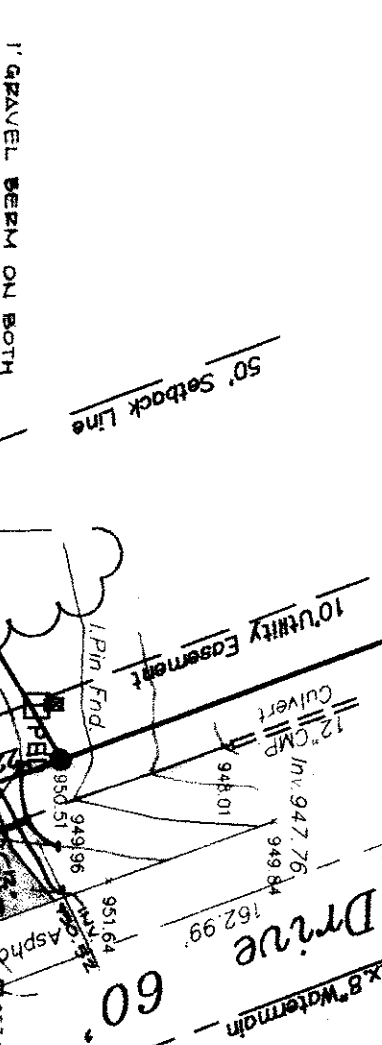
Grading Plan Approved as shown and/or noted THOMAS P. GILLES, P.E. Lake County Engineer



TYPICAL INLET
TYPE I - 2' RCP w/ 6" EGR JORDON # 6532 GRATE

Subplot 14 Curve Data

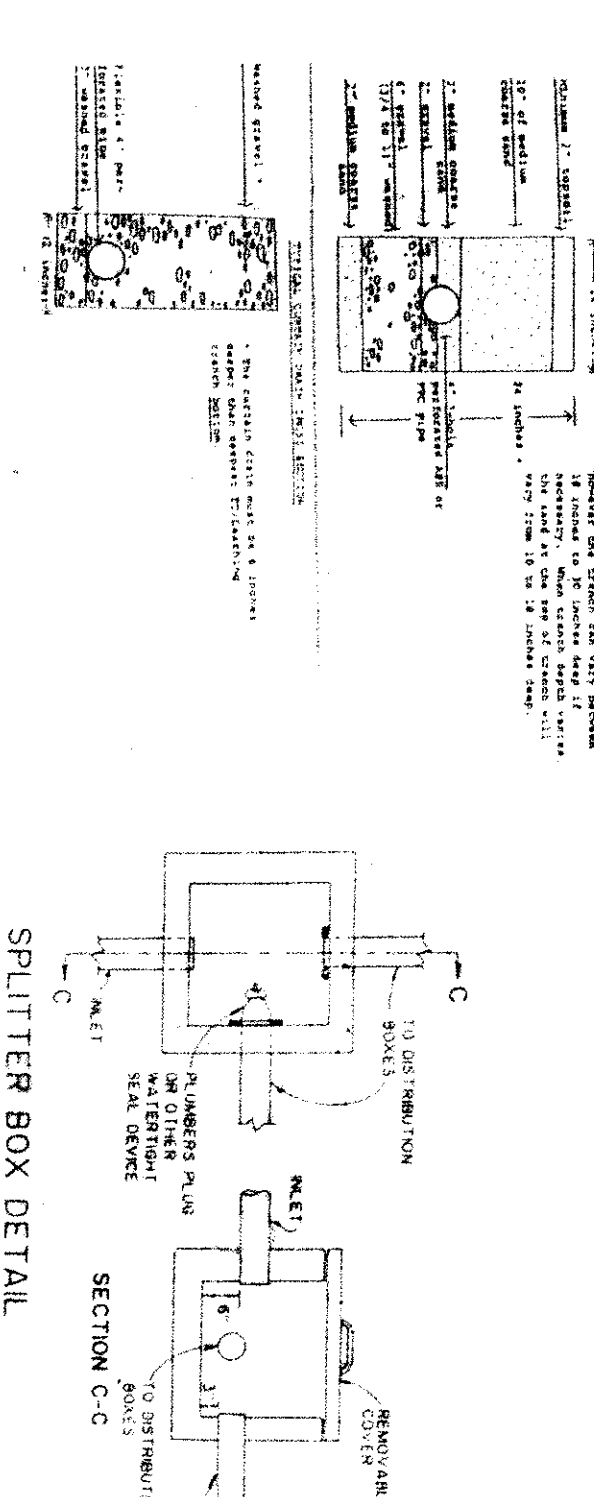
① P=380.00	② P=370.00	③ P=370.00
A=41.55	A=20.43	A=27.00
C=41.54	C=20.03	C=27.99
M=20.78	M=10.63	M=35.89
N=1747.07'W	N=10349.08'W	N=10322.03'W



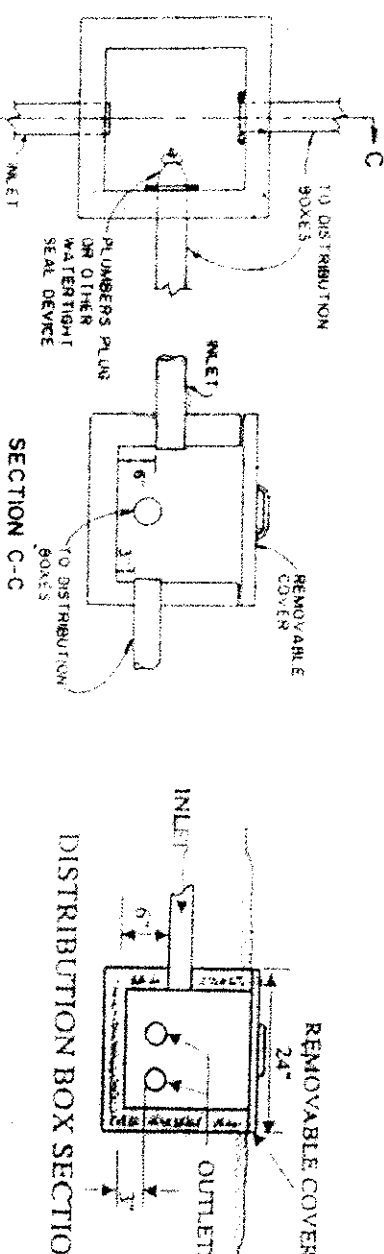
500 GALLON DOSING TANK

TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TIME	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00
TIME	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00

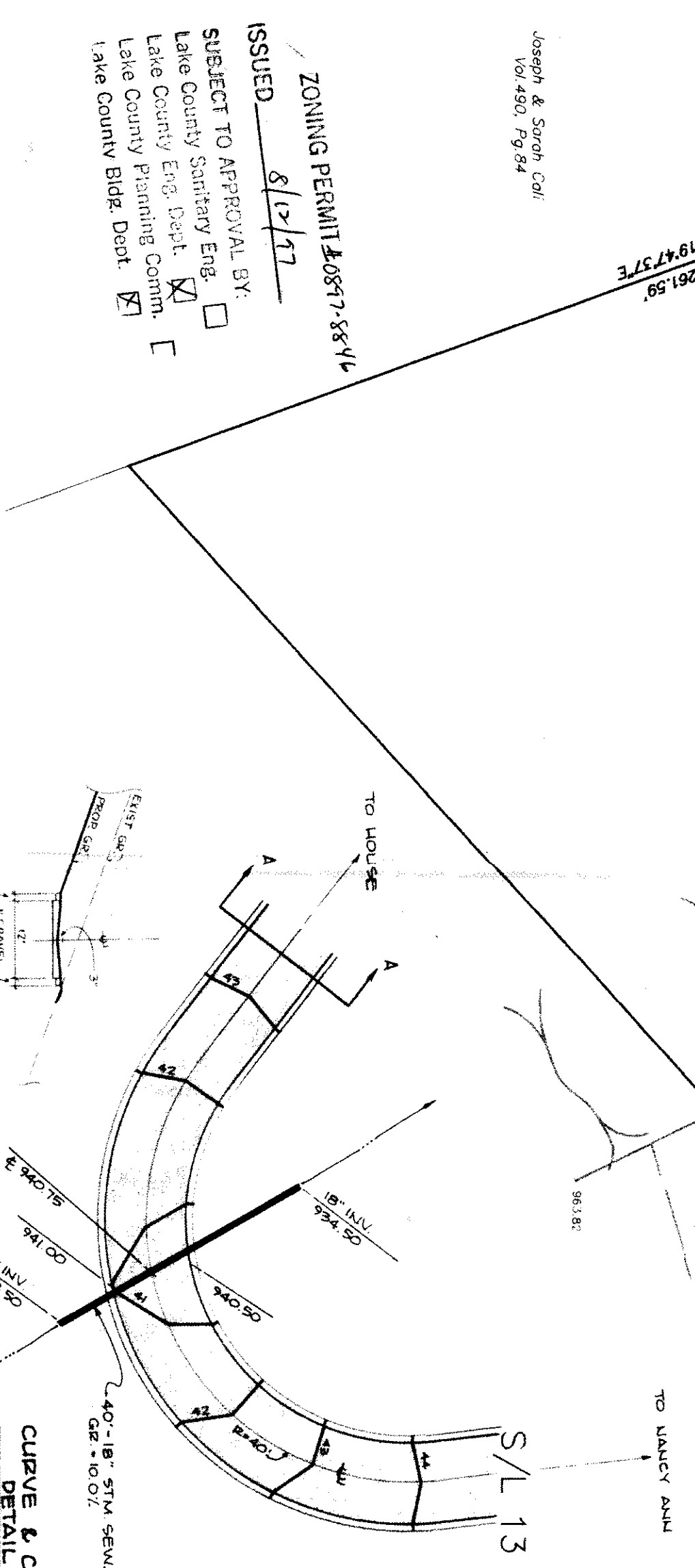
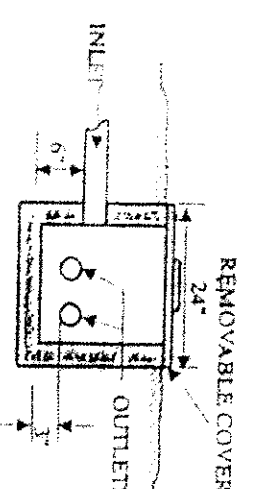
TYPICAL TRENCH SECTIONS



SPLITTER BOX DETAIL



DISTRIBUTION BOX SECTION



CURVE & CULVERT DETAIL A-A
SCALE 1"=20'

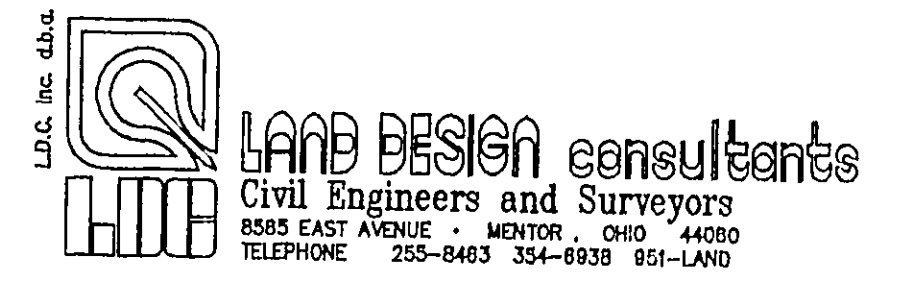
SITE PLAN

for : Moreland Construction
CLIENT

8865 Sanctuary Dr. Kirtland Hills
ADDRESS STREET CITY

14 Cal Woods Subd. No. 126 22
SUBLOT No. SUBDIVISION NAME VOL. PAGE

8.9.10 LOT TRACT TOWNSHIP OHIO



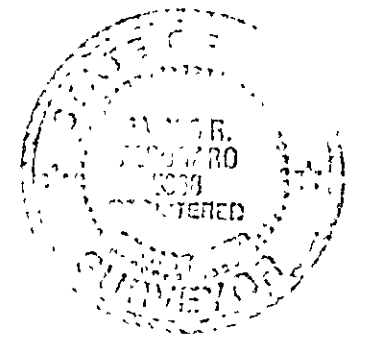
DESIGN CERTIFICATION

THIS PLAT WAS PREPARED BY ME, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NAME: [Signature]

CHECK LIST

LOT DIMENSIONS & BEARINGS
TIE TO NEAREST STREET
SUBLOT No. (PARCELS No.)
SURROUNDING OWNERS
BUILDING DIMENSIONS
SETBACK, SIDEYARD, REARYARD
FENCED GRADERS
DRIVE & APRON TYPE, WIDTH, THICKNESS
SUDOWLA TYPE, WIDTH, THICKNESS
CURBWAY TYPE, WIDTH, THICKNESS
WATER MAIN SIZE, LOCATION
SAN. MAIN SIZE, GRADE, LOC.
SAN. MAIN CAST. ELEV. INV. ELEV.
SAN. MAIN CAST. ELEV. INV. ELEV.
STORM MAIN SIZE, GRADE, LOC.
STORM MAIN CAST. ELEV. INV. ELEV.
PAV'T TYPE, GRADE, CURBS
GAS LINE LOC. SIZE
SEPTIC SYSTEM & DUCTULATION
WELL LOCATION & ISOLATION RADIUS



"AS BUILT" CERTIFICATION

I HEREBY CERTIFY THAT THE CIRCLED INFORMATION IS EXISTING AS OBTAINED ON THE SITE 1994 AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NAME

LEGEND

STORM MAINS
SANITARY MAINS
EXISTING CONTOURS
PROPOSED CONTOURS
EXST. ELEV. 100.0
100.0 PROP. ELEV.
DIRECTION OF SURFACE DRAINAGE

DRAWN BY

G.S.V./J.B.R.

CHK'D BY/FIELD DATE

R.A.T./S.A.S.

1
2

SCALE

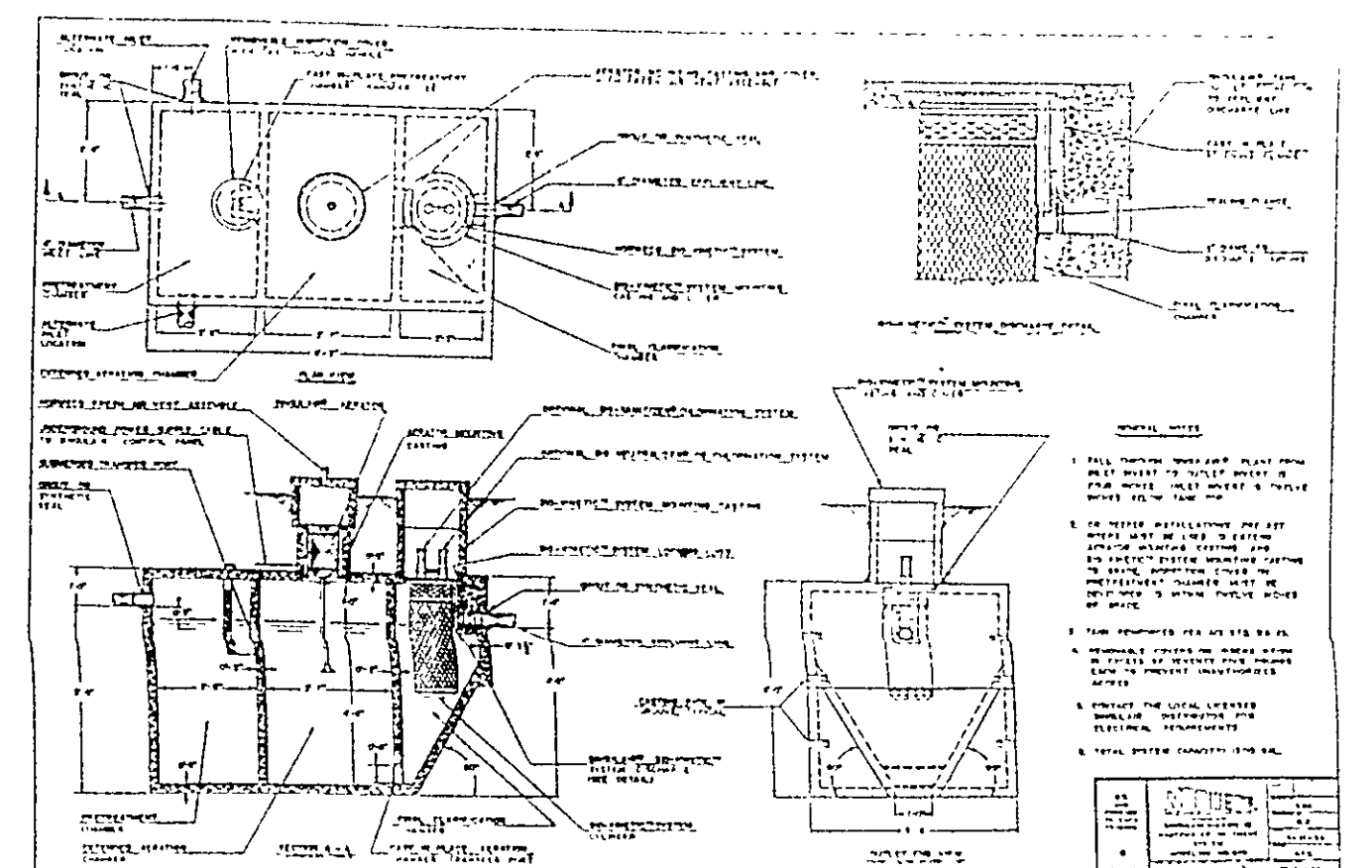
1"=30'-0"

DATE

July, 1997

BENCHMARK: B.M.=T.B.M. Set On Top Of Hydrant Located Opposite S/L 14; Elev.: 956.76

EXISTING UNDERGROUND UTILITIES NOTE:
THE SIZE & LOCATION, BOTH HORIZONTAL AND VERTICAL, OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, LDC INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.



Grading Plan Approved as shown and/or noted
THOMAS P. GILLES, P.E.
Lake County Engineer



DTG. NAME

MOZEC 1 9703

Sublot 14 Curve Data

A R=780.00 A=41.55 C=41.54 T=20.78 N.21°47'57"W.
B R=30.00 A=20.43 C=20.03 T=10.63 N.03°49'08"W.
C R=70.00 A=71.00 C=67.99 T=36.89 N.13°22'05"W.

HOUSE DIMENSIONS (same scale)

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 6" 1" 0 2' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME IN THE DAY OF MAY 1997. AD THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE THEY BISTED AS INDICATED HEREON.

(NAME) [Signature]

TANK		AREA		VOLUME		WEIGHT		MATERIAL	
NO.	SIZE	FT ²	IN ²	CU FT	CU YD	LB	TONS	TYPE	REMARKS
1	12" x 12" x 12"	144	144	1728	128	1440	80	CONCRETE	UNDERGROUND
2	18" x 18" x 18"	324	324	5832	422	3240	180	CONCRETE	UNDERGROUND
3	24" x 24" x 24"	576	576	13824	1024	5760	320	CONCRETE	UNDERGROUND
4	30" x 30" x 30"	900	900	27000	1944	9000	480	CONCRETE	UNDERGROUND
5	36" x 36" x 36"	1296	1296	46656	3392	12960	640	CONCRETE	UNDERGROUND
6	42" x 42" x 42"	1764	1764	72576	5244	17640	880	CONCRETE	UNDERGROUND
7	48" x 48" x 48"	2304	2304	103968	7584	23040	1200	CONCRETE	UNDERGROUND
8	54" x 54" x 54"	2916	2916	139968	10144	29160	1520	CONCRETE	UNDERGROUND
9	60" x 60" x 60"	3600	3600	216000	15552	36000	1920	CONCRETE	UNDERGROUND
10	66" x 66" x 66"	4356	4356	261264	18944	43560	2240	CONCRETE	UNDERGROUND
11	72" x 72" x 72"	5184	5184	311136	22608	51840	2640	CONCRETE	UNDERGROUND
12	78" x 78" x 78"	6084	6084	369816	26808	60840	3040	CONCRETE	UNDERGROUND
13	84" x 84" x 84"	7056	7056	438912	31872	70560	3520	CONCRETE	UNDERGROUND
14	90" x 90" x 90"	8100	8100	510300	37125	81000	4000	CONCRETE	UNDERGROUND
15	96" x 96" x 96"	9216	9216	590496	42912	92160	4480	CONCRETE	UNDERGROUND
16	102" x 102" x 102"	10404	10404	672672	49152	104040	5040	CONCRETE	UNDERGROUND
17	108" x 108" x 108"	11664	11664	762432	55488	116640	5600	CONCRETE	UNDERGROUND
18	114" x 114" x 114"	12996	12996	859344	62208	129960	6160	CONCRETE	UNDERGROUND
19	120" x 120" x 120"	14400	14400	960000	69120	144000	6720	CONCRETE	UNDERGROUND
20	126" x 126" x 126"	15876	15876	1071792	76512	158760	7360	CONCRETE	UNDERGROUND
21	132" x 132" x 132"	17424	17424	1196160	84480	174240	8000	CONCRETE	UNDERGROUND
22	138" x 138" x 138"	19044	19044	1334232	93072	190440	8640	CONCRETE	UNDERGROUND
23	144" x 144" x 144"	20736	20736	1486944	102432	207360	9280	CONCRETE	UNDERGROUND
24	150" x 150" x 150"	22500	22500	1653750	112500	225000	9920	CONCRETE	UNDERGROUND
25	156" x 156" x 156"	24336	24336	1835424	123552	243360	10560	CONCRETE	UNDERGROUND
26	162" x 162" x 162"	26244	26244	2032296	135648	262440	11200	CONCRETE	UNDERGROUND
27	168" x 168" x 168"	28224	28224	2245248	148896	282240	11840	CONCRETE	UNDERGROUND
28	174" x 174" x 174"	30276	30276	2474568	163312	302760	12480	CONCRETE	UNDERGROUND
29	180" x 180" x 180"	32400	32400	2721600	178560	324000	13120	CONCRETE	UNDERGROUND
30	186" x 186" x 186"	34596	34596	2986944	194784	345960	13760	CONCRETE	UNDERGROUND
31	192" x 192" x 192"	36864	36864	3270624	212064	368640	14400	CONCRETE	UNDERGROUND
32	198" x 198" x 198"	39204	39204	3573216	230496	392040	15040	CONCRETE	UNDERGROUND
33	204" x 204" x 204"	41616	41616	3895296	250080	416160	15680	CONCRETE	UNDERGROUND
34	210" x 210" x 210"	44100	44100	4237500	270825	441000	16320	CONCRETE	UNDERGROUND
35	216" x 216" x 216"	46656	46656	4600224	292704	466560	16960	CONCRETE	UNDERGROUND
36	222" x 222" x 222"	49284	49284	4984296	315840	492840	17600	CONCRETE	UNDERGROUND
37	228" x 228" x 228"	51984	51984	5389824	340224	519840	18240	CONCRETE	UNDERGROUND
38	234" x 234" x 234"	54756	54756	5817936	365856	547560	18880	CONCRETE	UNDERGROUND
39	240" x 240" x 240"	57600	57600	6268800	392800	576000	19520	CONCRETE	UNDERGROUND
40	246" x 246" x 246"	60516	60516	6742716	421056	605160	20160	CONCRETE	UNDERGROUND
41	252" x 252" x 252"	63504	63504	7240032	450528	635040	20800	CONCRETE	UNDERGROUND
42	258" x 258" x 258"	66564	66564	7761216	481344	665640	21440	CONCRETE	UNDERGROUND
43	264" x 264" x 264"	69696	69696	8306688	513504	696960	22080	CONCRETE	UNDERGROUND
44	270" x 270" x 270"	72900	72900	8876820	546960	729000	22720	CONCRETE	UNDERGROUND
45	276" x 276" x 276"	76176	76176	9471936	581712	761760	23360	CONCRETE	UNDERGROUND
46	282" x 282" x 282"	79524	79524	10092444	617856	795240	24000	CONCRETE	UNDERGROUND
47	288" x 288" x 288"	82944	82944	10738848	655392	829440	24640	CONCRETE	UNDERGROUND
48	294" x 294" x 294"	86436	86436	11411544	694320	864360	25280	CONCRETE	UNDERGROUND
49	300" x 300" x 300"	90000	90000	12111000	734625	900000	25920	CONCRETE	UNDERGROUND
50	306" x 306" x 306"	93636	93636	12838656	776352	936360	26560	CONCRETE	UNDERGROUND
51	312" x 312" x 312"	97344	97344	13594848	819504	973440	27200	CONCRETE	UNDERGROUND
52	318" x 318" x 318"	101124	101124	14379972	864096	1011240	27840	CONCRETE	UNDERGROUND
53	324" x 324" x 324"	104976	104976	15194544	910128	1049760	28480	CONCRETE	UNDERGROUND
54	330" x 330" x 330"	108900	108900	16039040	957600	1089000	29120	CONCRETE	UNDERGROUND
55	336" x 336" x 336"	112896	112896	16913952	1006512	1128960	29760	CONCRETE	UNDERGROUND
56	342" x 342" x 342"	116964	116964	17819784	1056864	1169640	30400	CONCRETE	UNDERGROUND
57	348" x 348" x 348"	121104	121104	18757056	1108656	1211040	31040	CONCRETE	UNDERGROUND
58	354" x 354" x 354"	125316	125316	19726344	1161888	1253160	31680	CONCRETE	UNDERGROUND
59	360" x 360" x 360"	129600	129600	20728200	1216500	1296000	32320	CONCRETE	UNDERGROUND
60	366" x 366" x 366"	133956	133956	21763176	1272528	1339560	32960	CONCRETE	UNDERGROUND
61	372" x 372" x 372"	138384	138384	22831824	1330064	1383840	33600	CONCRETE	UNDERGROUND
62	378" x 378" x 378"	142884	142884	23934684	1389120	1428840	34240	CONCRETE	UNDERGROUND
63	384" x 384" x 384"	147456	147456	25071312	1449744	1474560	34880	CONCRETE	UNDERGROUND
64	390" x 390" x 390"	152100	152100	26242200	1511840	1521000	35520	CONCRETE	UNDERGROUND
65	396" x 396" x 396"	156816	156816	27446976	1575456	1568160	36160	CONCRETE	UNDERGROUND
66	402" x 402" x 402"	161604	161604	28686144	1640592	1616040	36800	CONCRETE	UNDERGROUND
67	408" x 408" x 408"	166464	166464	29959344	1707264	1664640	37440	CONCRETE	UNDERGROUND
68	414" x 414" x 414"	171396	171396	31267176	1775472	1713960	38080	CONCRETE	UNDERGROUND
69	420" x 420" x 420"	176400	176400	32609280	1845120	1764000	38720	CONCRETE	UNDERGROUND
70	426" x 426" x 426"	181476	181476	33986244	1916256	1814760	39360	CONCRETE	UNDERGROUND
71	432" x 432" x 432"	186624	186624	35398656	1988880	1866240	40000	CONCRETE	UNDERGROUND
72	438" x 438" x 438"	191844	191844	36846084	2063992	1918440	40640	CONCRETE	UNDERGROUND
73	444" x 444" x 444"	197136	197136	38329056	2141584	1971360	41280	CONCRETE	UNDERGROUND
74	450" x 450" x 450"	202500	202500	39848100	2221650	2025000	41920	CONCRETE	UNDERGROUND
75	456" x 456" x 456"	207936	207936	41393760	2304192	2079360	42560	CONCRETE	UNDERGROUND
76	462" x 462" x 462"	213444	213444	42966564	2389312	2134440	43200	CONCRETE	UNDERGROUND
77	468" x 468" x 468"	219024	219024	44567136	2477024	2190240	43840	CONCRETE	UNDERGROUND
78	474" x 474" x 474"	224676	224676	46196064	2567424	2246760	44480	CONCRETE	UNDERGROUND
79	480" x 480" x 480"	230400	230400	47853840	2660520	2304000	45120	CONCRETE	UNDERGROUND