

A STONE ACCESS DRIVE COMPLETE WITH UNDERLYING GEO-TEXTILE FABRIC (20 FEET WIDE AND 50 FEET LONG) FOR INGRESS AND EGRESS AT THE SITE SHALL BE INSTALLED. THIS DRIVE SHALL BE THE ONLY ENTRANCE AND EXIT TO THE SITE.

ALL SILT FENCE SHALL BE INSTALLED PRIOR TO ANY EARTHWORK ACTIVITIES AT THE SITE IN THE LOCATIONS SHOWN ON THE SITE PLAN AS WELL AS ALONG THE FRONT OF ANY LOT THAT SLOPES TOWARDS THE STREET.

DISTURBED AREAS OF THE SITE THAT ARE TO REMAIN IDLE FOR MORE THAN THIRTY (30) DAYS SHALL BE PROPERLY SEEDED AND STRAW/MULCHED WITHIN SEVEN (7) DAYS OF COMPLETION OF INITIAL GRADING. TEMPORARY SEEDING AND MULCHING OF A THIRTY (30) FOOT STRIP OF THE ENTIRE FRONT OF THE LOT SHALL BE MAINTAINED ON THE SITE ONCE INITIAL GRADING IS COMPLETE.

STABILIZATION OF CRITICAL AREAS WITHIN FIFTY (50) FEET OF ANY STREAM OR WETLAND SHALL BE COMPLETE WITHIN TWO (2) DAYS OF THE DISTURBANCE IF THE SITE IS TO REMAIN INACTIVE FOR LONGER THAN FOURTEEN (14) DAYS.

STRAW-MULCH SHALL BE APPLIED AT A RATE OF 1 BALE PER EVERY TEN (10) FEET OF CURB, AT A WIDTH OF (THIRTY) (30) FEET OF THE ENTIRE LENGTH OF THE LOT. WOOD CHIPS MAY ALSO BE USED BUT MUST BE SPREAD AT A MINIMUM DEPTH OF FOUR INCHES OVER THE THIRTY-FOOT WIDTH AND MUST BE ACCOMPANIED BY A PROPERLY INSTALLED SILT FENCE.

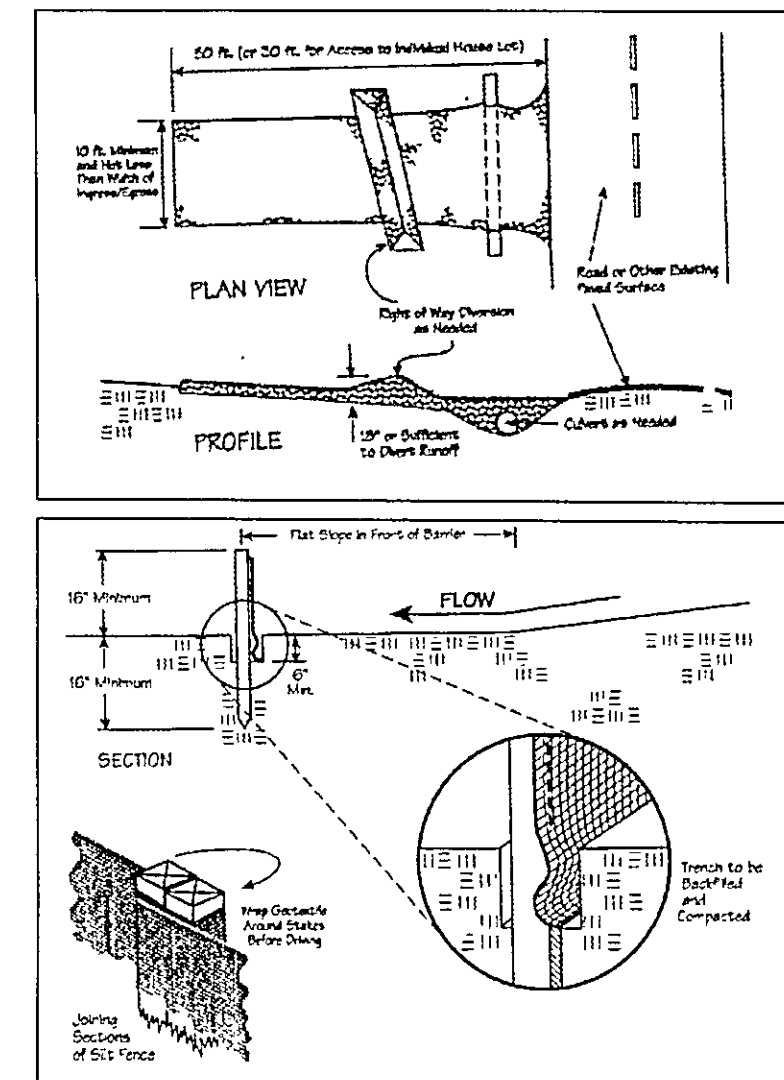
EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR WITHIN 24 HOURS OF A 0.5" OR GREATER RAINFALL EVENT. NECESSARY REPAIRS SHALL BE MADE AT THIS TIME.

NOTE:
ALL EROSION AND SEDIMENT CONTROL
SPECIFICATIONS, APPLICATIONS, AND TIMETABLES
ARE BASED ON THE DESCRIPTIONS AND
STANDARDS OF THE OHIO DEPARTMENT OF
NATURAL RESOURCES "RAINWATER AND LAND
DEVELOPMENT MANUAL" AND CAN BE FOUND IN
THE LAKE COUNTY EROSION AND SEDIMENT
CONTROL RULES AS ADOPTED DECEMBER 21,
1999.

THE SPECIFIED EROSION AND SEDIMENT CONTROL STANDARDS ARE GENERAL GUIDELINES AND SHALL NOT LIMIT THE RIGHT OF THE COUNTY TO IMPOSE, AT ANY TIME, ADDITIONAL, MORE STRINGENT REQUIREMENTS. NOR SHALL THE STANDARDS LIMIT THE RIGHT OF THE COUNTY TO WAIVE, IN WRITING, INDIVIDUAL REQUIREMENTS.

TEMPORARY SEEDING SPECIFICATIONS			
SEEDING DATES	SPECIES	LB./1000 FT.	PER AC.
MARCH 1 TO AUGUST 15	OATS	3	4 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
AUGUST 16 TO NOVEMBER 1	RYE	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	WHEAT	3	2 BUSHEL
	TALL FESCUE	1	40 LB.
	ANNUAL RYEGRASS	1	40 LB.
	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.
NOVEMBER 1 TO SPRING SEEDING	ANNUAL RYEGRASS	1	40 LB.
	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.



1. BENCHMARK - TOP STEM OF EXISTING FIRE HYDRANT LOCATED IN FRONT SUBLOT 3, ELEVATION = 1008.74.
2. DRIVEWAY APRON TO BE 6" THICK CONCRETE.
3. ALL DOWNSPOUTS TO BE OUTLETTED TO SPLASH BLOCKS.
4. CONTRACTOR RESPONSIBLE FOR CONTACTING THE OHIO UTILITY PROTECTION SERVICE (1.800.362.2764) AND ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
5. THE LOCATION BOTH HORIZONTAL AND VERTICAL OF EXISTING UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A DILIGENT AND COMPREHENSIVE SEARCH OF AVAILABLE RECORDS. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED WHERE PRACTICAL, HOWEVER, BARRINGTON CONSULTING GROUP, INC. DOES NOT GUARANTEE THE COMPLETENESS, NOR ACCURACY THEREOF.
6. CONTRACTOR SHALL VERIFY ELEVATIONS OF LATERAL INVERTS IN THE FIELD PRIOR TO FOUNDATION EXCAVATION.
7. SEE SHEET 2 FOR EROSION AND SEDIMENT-CONTROL PLAN
8. SEE SHEET 2 FOR SEEDING INFORMATION

" I THE UNDERSIGNED HEREBY CERTIFIES THAT THIS TOPOGRAPHY INDICATED BY 1 FOOT CONTOURS AND ELEVATION SHOWN HEREON REPRESENTS AN ACTUAL SURVEY MADE BY ME ON THE 9th DAY OF JUNE, 2004 AND THE ELEVATIONS WERE TAKEN AT AN APPROPRIATE INTERVAL AND AS OF THAT DAY THEY EXISTED AS INDICATED HEREON.

"I HEREBY CERTIFY THAT THIS PLAN WAS
PREPARED BY ME AND IS CORRECT TO THE BEST
OF MY KNOWLEDGE AND BELIEF"

DAVID W. NOVAK, P.S. No. 7507

[illegible]

Barrington
CONSULTING GROUP, INC.
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WILLOUGHBY, OHIO 44094
PHONE 440.946.1761 FAX 440.918.0486

FRATE
BRUNO FRATE
38395 BRIGHTON PATH
WILLOUGHBY, OHIO 44094

SITE PLAN

S/L 3 GIRDLED ROAD, CONCORD TWP., OHIO
P.P. No. 08A0020000340

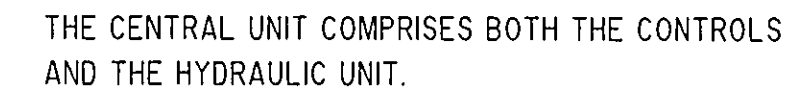
MODEL

DRAWN
WSO
CHECKED
DWN
DATE
JUNE 15, 2004
SCALE
1" = 20'
JOB NO.
04052
SHEET

1/2
OF

[illegible]

29	HYDRAULIC UNIT SUPPLY LINE					
30	1.5	PIPE DIAMETER				
31	15	LENGTH SUPPLY PIPE				
32	7.1	FEET OF STATIC LIFT				
33	9	TOTAL FEET HEAD LOSS IN LINE (Dynamic Head Loss + #30)				
34	FORCE MAIN SUPPLY LINE PIPE SIZE & LENGTH:					
35	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH	9	FT. HEAD LOSS
36	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH	9	FT. HEAD LOSS
37	RETURN FLUSH LINE SIZE & RETURN:					
38	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH	5	FT. HEAD LOSS
39	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH	5	FT. HEAD LOSS
40	FEET OF TOTAL STATIC HEAD LOSS (Vertical Lift)					
41	TOTAL PRESSURE LOSS (Add Items 27, 32, 34/35, 37/38, 39 + Flushing):					
42	76	ZONE 1 HEAD LOSS, INCLUDES			35	FEET FLUSHING
43	76	ZONE 2 HEAD LOSS, INCLUDES			35	FEET FLUSHING
44	PUMP SIZING:					
45	76	MAXIMUM TOTAL PRESSURE LOSS (Highest 4l or 42)				
46	124	DISC FILTER BACKFLUSH (#32 + 151l, # 15 GPM)				
47	15	GPM @	124	FEET,	115	VOLTS, 1 PHASE, 0.5 HP
48	TIMED DOSING PER ZONE:					
49	ZONE ONE:					
50	4.58	Dosing GPM	6.84	MIN./DOSE	31.3	GALLONS PER DOSE
51	4	AVE. CYCLES	6.67	PEAK CYCLES		
52	ZONE TWO:					
53	4.58	Dosing GPM	6.84	MIN./DOSE	31.3	GALLONS PER DOSE
54	4	AVE. CYCLES	6.67	PEAK CYCLES		
55	4 INCHES DOWNDOWN FLOAT SWITCH SETTING (Maximum 4")					
56	Landscape Linear Loading Rate (LLR):			LLR = 2.8		
57	Soil Loading Rate (SLR):			SLR = 0.11		



DRIP DETAIL SCHEMATICS

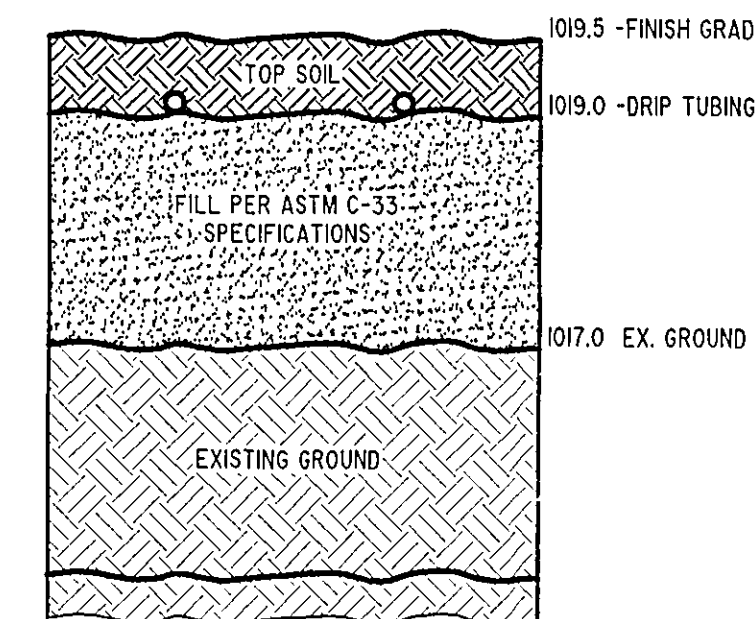


Figure 1: Terminal block wiring diagram for the 115V/60Hz model. The diagram shows a terminal block with 20 terminals. Terminals 1-4 are labeled 24VAC, 1-2 are TB1, 3-4 are 115VAC, 5-8 are 24VAC, 9-12 are 115VAC, 13-16 are 24VAC, 17-20 are 115VAC. Terminals 1-4 are labeled: 1 REDUNDANT OFF, 2 TIMER ENABLE, 3 PEAK FLOW, 4 HIGH LEVEL. Terminals 9-12 are labeled: 9 DRY ALARM, 10 CONTACTS, 11 115V 450 WATT, 12 HEATER. Terminals 13-16 are labeled: 13 S1, 14 S2, 15 S3, 16 S4. Terminals 17-20 are labeled: 17 S5, 18 S6, 19 S7, 20 S8. Terminals 21-24 are labeled: 21 ALARM SUPPLY, 22 115 VOLTS ONLY, 23 CONTROL SUPPLY, 24 115 VOLTS ONLY. Terminals 25-28 are labeled: 25 TB2, 26 L1, 27 L2, 28 L3. Terminals 29-32 are labeled: 29 PUMP, 30 T1, 31 T2, 32 T3. Terminals 33-36 are labeled: 33 PUMP, 34 T1, 35 T2, 36 T3.

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DETAILS
S/L 3 GIRDLED ROAD, CONCORD, OHIO 44077
P.P. No. 08A0020000340

DRAWN
CHECKED
DWN
DATE
JUNE 15, 2004
SCALE
NONE
JOB NO
04052
SHEET
2/2
OF
SHEETS

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FORM C:\SC2\LIBRARY\FORMS\24X36JUN.DWG

GIRDLED ROAD 66' RW

S 69°46'47" W 137.14'

CONCORD HAMBDEN 66' RW

S 17°59'49" E

SUBLOT
2
1.297 Ac.

SUBLOT
3
1.297 Ac.

DUPLICATION AREA

DEEP DISTRIBUTION PLAN SUBMITTAL REVIEW

Date	Name
7-28-04	SOB
7-28-04	SOB
7-28-04	SOB

Crip distribution area has been field verified and protected with marking tape
Plans submitted to LCGHD and meet design criteria
Hydraulic calculations verified and accurate

Stormwater Management Plan
Approved as shown and/or not shown
JAMES R. GILLS, P.E.
County Drainage Engineer
Date 6/24/04

EQUIPMENT DETAIL SCALE: 1" = 10'

MANIFOLD DETAIL SCALE: 1" = 10'

GRAPHIC SCALE

(IN FEET)
1 Inch = 30 ft.

EROSION AND SEDIMENT CONTROL SCHEDULE INGRESS-EGRESS
A STONE ACCESS DRIVE COMPLETE WITH UNDER LYING GEO-TEXTILE FABRIC (20 FEET WIDE AND 50 FEET LONG) FOR INGRESS AND EGRESS AT THE SITE SHALL BE INSTALLED. THIS DRIVE SHALL BE THE ONLY ENTRANCE AND EXIT TO THE SITE.

SILT FENCE
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TEMPORARY SEEDING
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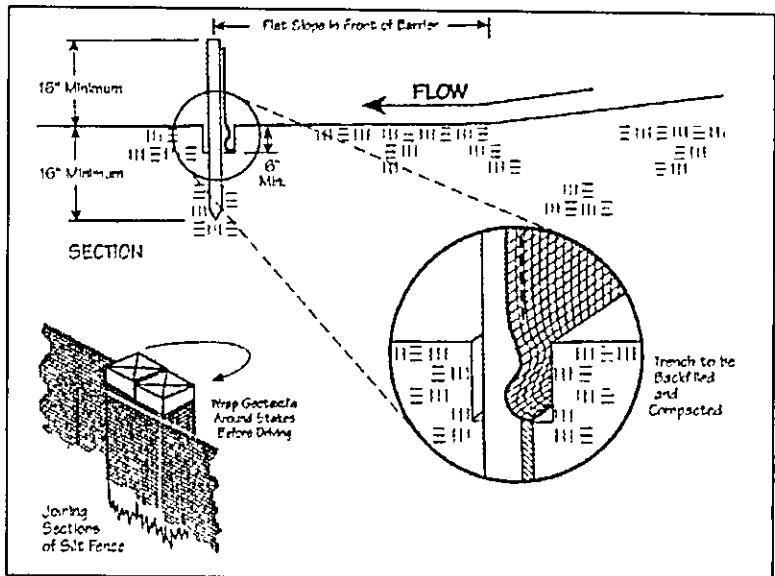
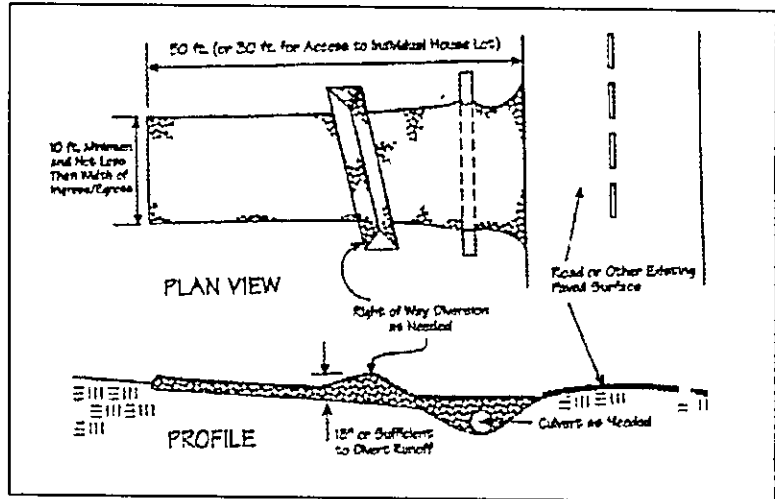
MAINTENANCE
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NOVEMBER 1 TO SPRING SEEDING	PERENNIAL RYEGRASS	1	40 LB.
	TALL FESCUE	1	40 LB.

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- GENERAL NOTES:**
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 2. DRIVEWAY APRON TO BE 6" THICK CONCRETE.
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 7. SEE SHEET 2 FOR EROSION AND SEDIMENT-CONTROL PLAN
 8. SEE SHEET 2 FOR SEEDING INFORMATION

CERTIFICATION:
"I THE UNDERSIGNED HEREBY CERTIFIES THAT THIS TOPOGRAPHY INDICATED BY 1 FOOT CONTOURS AND ELEVATION SHOWN HEREON REPRESENTS AN ACTUAL SURVEY MADE BY ME ON THE 9th DAY OF JUNE, 2004 AND THE ELEVATIONS WERE TAKEN AT AN APPROPRIATE INTERVAL AND AS OF THAT DAY THEY EXISTED AS INDICATED HEREON.

"I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF."

DAVID W. NOVAK, P.S. No. 7507



REVISIONS	BY
REVISED EPTIC 5/15/07/09/04	DWN
REVISED EPTIC 5/15/07/09/04	WSO
REVISED EPTIC 5/15/07/09/04	WSO

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38395 BRIGHTON PATH
WILLOUGHBY, OHIO 44094

SITE PLAN
S/L 3 GIRDLED ROAD, CONCORD TWP., OHIO
P.P. No. 08A002000340

MODEL

DRAWN WSO
CHECKED DWN
DATE JUNE 15, 2004
SCALE 1" = 20'
JOB NO. 04052
SHEET 1/2

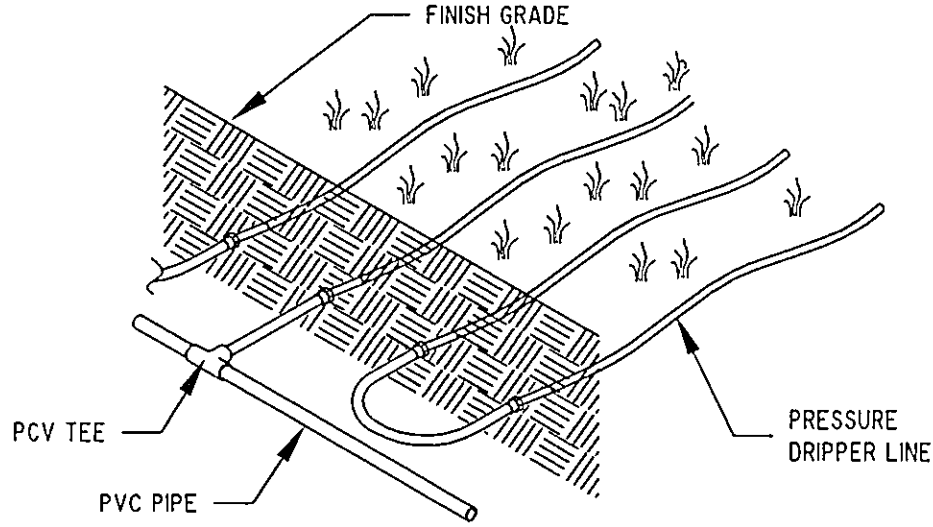
OF SHEETS

04052

SEPTIC DRIP CALCULATION SHEET

1	417	GALLONS PER DAY	4	BEDROOMS
2	0.23	GPD/L.F. TUBING INFILTRATIVE SOIL LOADING RATE		
3	150	FT (Length)	28	FT. (Width) AREA FOR DISPOSAL LAYOUT
4	0.12	GPD/FT2 AREA SOIL LOADING RATE PROVIDED	4200	FT SQ.
5	2	ZONES		
6	1632	TOTAL DRIPPER LINE PROVIDED		
7	2000	SEPTIC TANK SIZE		
8	2000	DOSING TANK SIZE		
9	33	GALLONS PER INCH IN DOSING TANK (Recommended Minimum)		
10	ZONE ONE			
11	2100	TOTAL ABSORPTION AREA		
12	832	LINEAR FEET OF DRIP TUBING		
13	208	LONGEST LATERAL LENGTH		
14	4.23	DOSING FLOW RATE		
15	4	NO. RETURN FIELD FLUSH CONNECTIONS		
16	6.40	FIELD FLUSH FLOW RATE		
17	10.60	TOTAL FLOW REQUIRED		
18	ZONE TWO			
19	2100	TOTAL ABSORPTION AREA		
20	832	LINEAR FEET OF DRIP TUBING		
21	208	LONGEST LATERAL LENGTH		
22	4.23	DOSING FLOW RATE		
23	4	NO. RETURN FIELD FLUSH CONNECTIONS		
24	6.40	FIELD FLUSH FLOW RATE		
25	10.60	TOTAL FLOW REQUIRED		
26	10	MAXIMUM DESIGN FLUSHING FLOW		
27	8	FEET OF HEAD LOSS FROM HYDRAULIC UNIT (Based on #26)		

28	HYDRAULIC UNIT SUPPLY LINE			
29	1.5	PIPE DIAMETER		
30	15	LENGTH SUPPLY PIPE		
31	7.1	FEET OF STATIC LIFT		
32	9	TOTAL FEET HEAD LOSS IN LINE (Dynamic Head Loss + #31)		
33	FORCE MAIN SUPPLY LINE PIPE SIZE & LENGTH:			
34	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH
35	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH
36	RETURN FLUSH LINE SIZE & RETURN:			
37	1"	ZONE 1 SIZE	150	ZONE 1 LENGTH
38	1"	ZONE 2 SIZE	150	ZONE 2 LENGTH
39	10	FEET OF TOTAL STATIC HEAD LOSS (Vertical Lift)		
40	TOTAL PRESSURE LOSS (Add Items 27, 32, 34/35, 37/38, 39 + Flushing):			
41	76	ZONE 1 HEAD LOSS, INCLUDES	20	FEET FLUSHING
42	76	ZONE 2 HEAD LOSS, INCLUDES	20	FEET FLUSHING
43	PUMP SIZING:			
44	76	MAXIMUM TOTAL PRESSURE LOSS (Highest 41 or 42)		
45	124	DISC FILTER BACKFLUSH (#32 + 15ft. @ 15 GPM)		
46	15	GPM @	124	FEET, 115 VOLTS, 1 PHASE, 0.5 HP.
47	TIMED DOSING PER ZONE:			
48	ZONE ONE:			
49	4.58	Dosing GPM	6.84	MIN./DOSE
50	4	AVE. CYCLES	6.67	PEAK CYCLES
51	ZONE TWO:			
52	4.58	Dosing GPM	6.84	MIN./DOSE
53	4	AVE. CYCLES	6.67	PEAK CYCLES
54	4	INCHES DRAWDOWN FLOAT SWITCH SETTING (Minimum 4")		
55	Landscape Linear Loading Rate (LLLR): LLLR = 2.0			
56	Soil Loading Rate (SLR): SLR = 0.11			



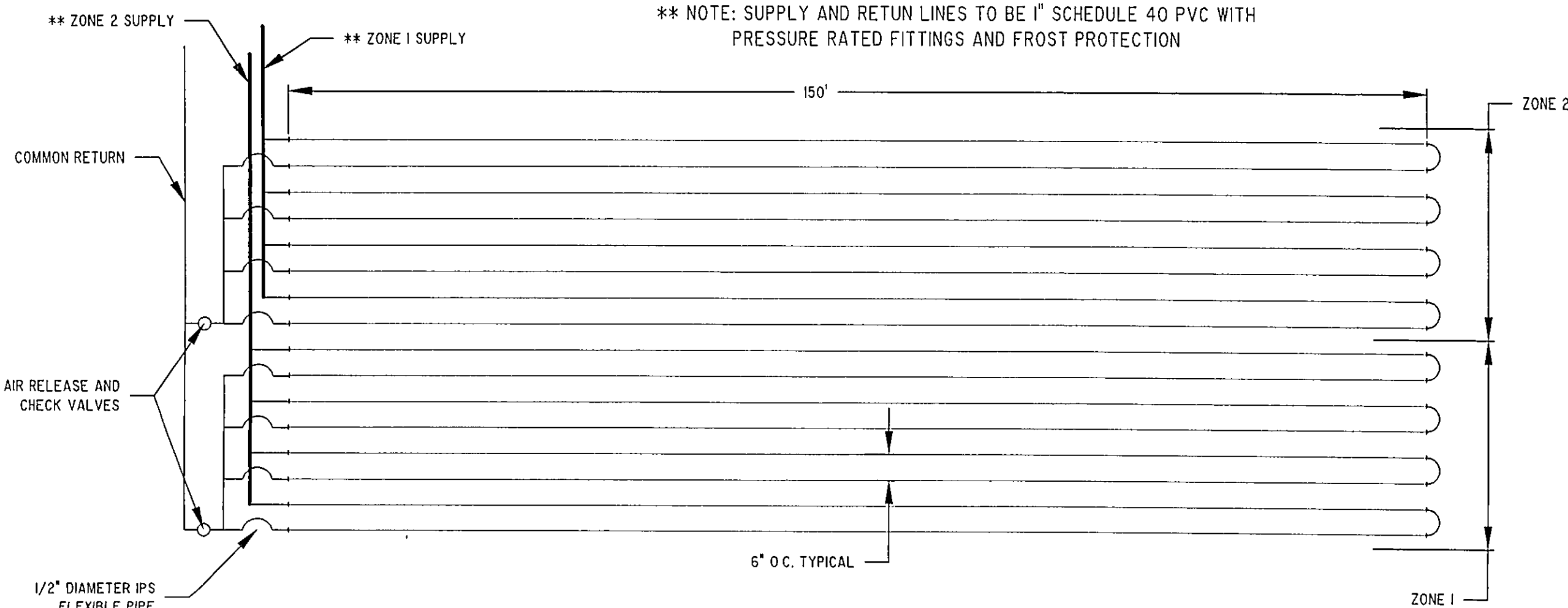
SUBSURFACE DISTRIBUTION SYSTEM

SCOPE: DOMESTIC SEWAGE WILL FLOW BY GRAVITY THROUGH THE SEPTIC TANK THEN INTO A FINAL DOSING TANK. THE CENTRAL UNIT WILL DISPOSE OF THE EFFLUENT BY ALTERNATELY DOSING MULTIPLE ZONES IN THE ABSORPTION AREA.

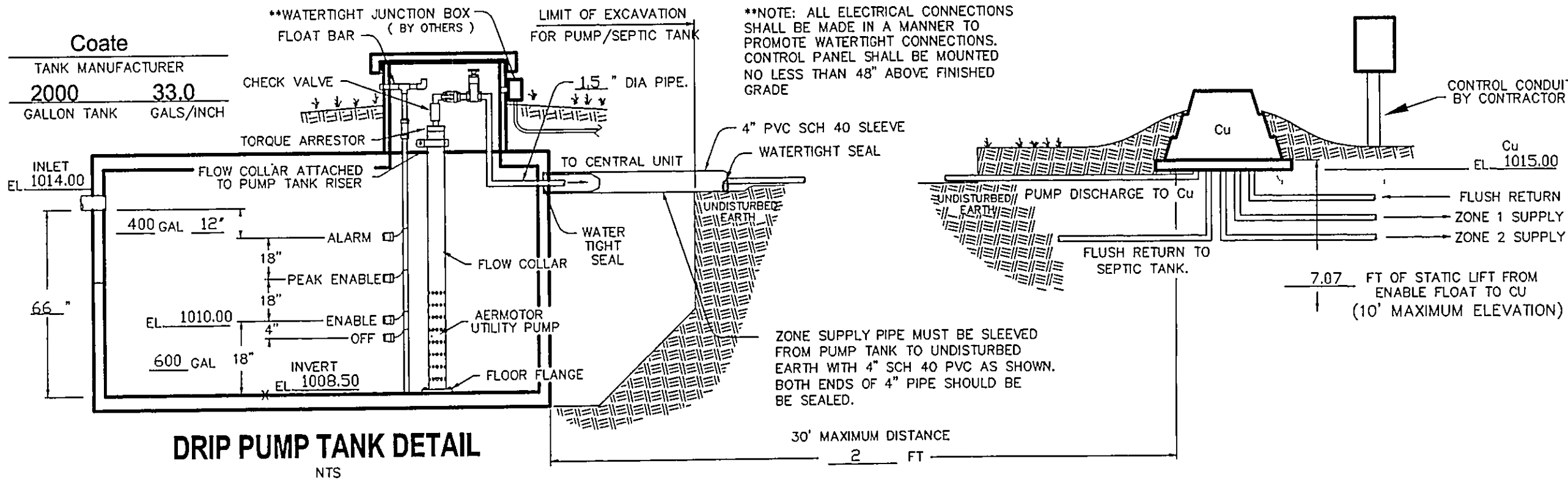
THE CENTRAL UNIT COMPRISES BOTH THE CONTROLS AND THE HYDRAULIC UNIT.

DRIPPER LINE TO FOLLOW CONTOURS WITH PVC MANIFOLD PERPENDICULAR TO GRADE. PVC MANIFOLD TO BE FREEZE PROTECTED

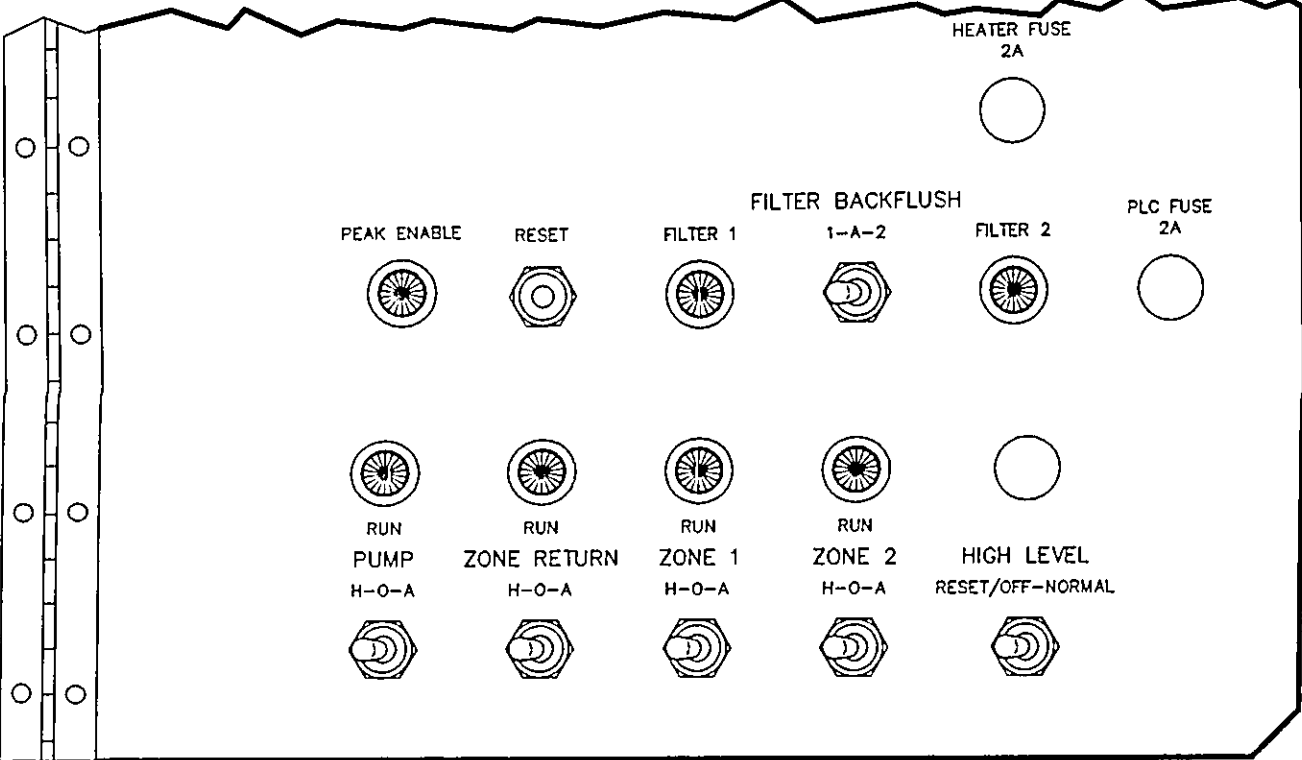
DRIP DETAIL SCHEMATICS



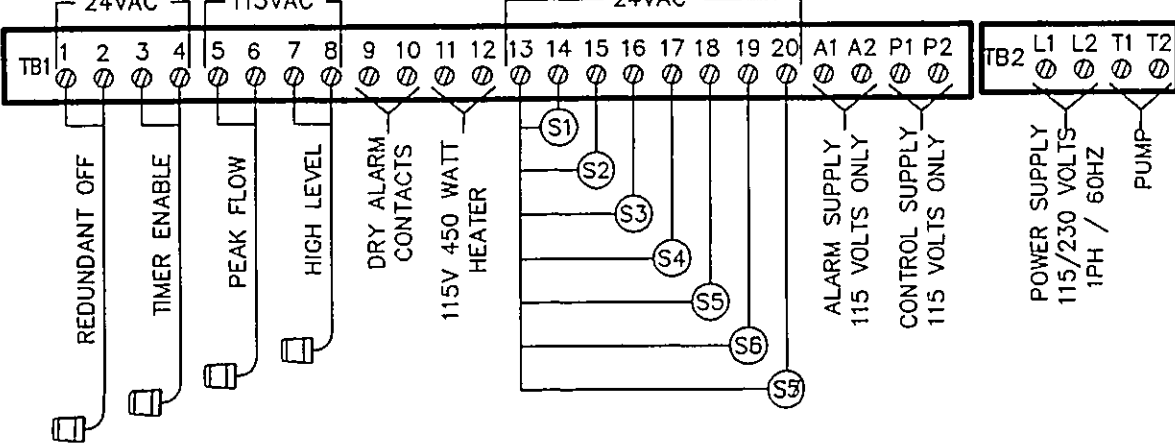
MANIFOLD DETAIL AND ZONE LAYOUT



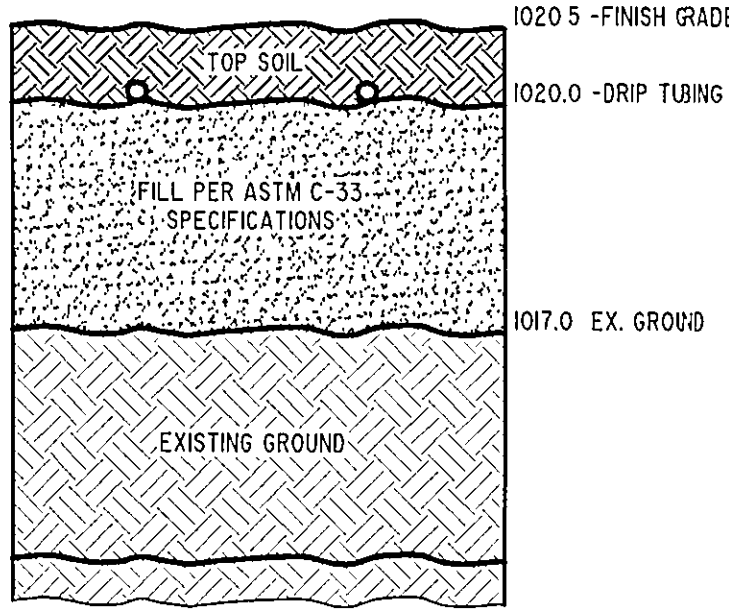
DRIP PUMP TANK DETAIL



INNER DOOR LAYOUT



PUMP & CONTROL DETAIL



TYPICAL SECTION

REVISIONS	BY
REVISED SEPTIC SYS 03/08/04	DWN

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MODEL

DRAWN DWN
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DATE JUNE 15, 2004
SCALE NONE
JOB NO. 04052
SHEET 2/2
OF SHEETS