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.

2 WORKING DAYS BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
OHIO UTILITIES PROTECTION SERVICE

SEEDING AND MULCHING

ALL AREAS DISTURBED BY CONSTRUCTION OF THIS PROJECT SHALL BE SEEDED AND MULCHED ACCORDING TO ODOT [illegible] USING A MIXTURE APPROVED BY THE GEAUGA SOIL AND WATER CONSERVATION DISTRICT. [illegible] EROSION CONTROL [illegible]

EROSION CONTROL

[illegible] SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING TO ALL DISTURBED AREAS [illegible] UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH [illegible] AND/OR AS DESIGNATED BY THE GEAUGA SOIL AND WATER CONSERVATION DISTRICT.

[illegible] SHALL COMPLY WITH THE MAINTENANCE SCHEDULE INCLUDED IN THE APPROVED PLANS [illegible] EROSION CONTROLS.

[illegible] EROSION CONTROL METHODS MUST BE IN PLACE PRIOR TO ANY EARTHWORK COMMENCING.

[illegible] AREAS THAT WILL REMAIN UNWORKED FOR A PERIOD OF FORTY FIVE (45) DAYS OR LONGER SHALL BE STABILIZED WITH SEEDING AND MULCHING, OR OTHER APPROPRIATE MEANS, WITHIN SEVEN (7) DAYS AFTER EARTH MOVING CEASES.

[illegible] TEMPORARY SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL MAINTENANCE AND INSPECTIONS ON A [illegible] BASIS AND AFTER ALL RAINSTORMS PRODUCING 1/2" PER 24 HOUR. ALL MEASURES SHALL BE REMOVED AFTER THE SITE IS STABILIZED AND/OR AS DIRECTED BY GOVERNING AGENCIES.

2. THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY [illegible] AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY [illegible] CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER [illegible] WETLANDS OR OTHER AREAS OF WATER IMPOUNDMENT.

3. THIS WORK SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR [illegible] DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF SILT FENCES, SLOPE PROTECTION, SEDIMENT BASINS, MULCHES, [illegible] FILTER [illegible] DITCH LINING AND OTHER EROSION CONTROL DEVICES OR METHODS.

4. [illegible] EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED [illegible] SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING [illegible] OPERATIONS. TEMPORARY CONTROL MEASURES WILL BE USED WHEN AND AS DIRECTED BY THE ENGINEER TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT [illegible] DURING THE DESIGN STAGE; THAT ARE NEEDED PRIOR TO INSTALLATION OR PERMANENT CONTROL [illegible] THAT ARE NEEDED TEMPORARILY TO CONTROL EROSION THAT DEVELOPS DURING NORMAL [illegible] PRACTICES.

5. [illegible] SHALL REMAIN UNDISTURBED AS LONG AS POSSIBLE. THE CONTRACTOR [illegible] ALL AREAS DISTURBED BY THE CONSTRUCTION AND WHICH ARE EXPOSED [illegible] SEEDED AREAS WILL BE INSPECTED, AND AREAS WHERE THE SEED HAS NOT [illegible] SHALL BE RESEEDED AS NECESSARY BY THE CONTRACTOR. STABILIZE AREAS [illegible] PROMPT SEEDING. STABILIZE AREAS WITHIN 30 FEET OF ANY STREAM [illegible]

6. TEMPORARY EROSION CONTROL FEATURES SHALL BE ACCEPTABLY MAINTAINED AND SHALL SUBSEQUENTLY BE REMOVED OR REPLACED WHEN DIRECTED BY THE ENGINEER. TEMPORARY AND PERMANENT EROSION CONTROL FEATURES SHALL BE CHECKED AFTER EACH MEASURABLE RAINFALL AND RE-ESTABLISHED AS NECESSARY. REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE SITE.

7. IN THE EVENT THAT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED DUE TO THE CONTRACTOR'S NEGLIGENCE, CARELESSNESS, OR FAILURE TO INSTALL PERMANENT CONTROLS AS A PART [illegible] SHALL BE PERFORMED BY THE CONTRACTOR AT HIS EXPENSE.

8. ADDITIONAL EROSION CONTROLS MAY BE MANDATED BY THOSE AGENCIES HAVING JURISDICTION.

9. ROUTINE INSPECTION WILL BE CONDUCTED ON ALL EROSION CONTROL PRACTICES FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ALL DEFICIENCIES REVEALED BY THE INSPECTIONS.

10. THESE NOTES AND DRAWINGS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE GEAUGA SOIL AND WATER CONSERVATION DISTRICT.

SEEDING REQUIREMENTS:

1. TEMPORARY SEEDING AND MULCHING SHALL BE PLACED ON ALL DENUDED AREAS THAT ARE TO TO REMAIN OPEN FOR FORTY FIVE (45) DAYS OR LONGER WITHIN SEVEN (7) DAYS.

2. TOPSOIL STOCKPILES SHALL RECEIVE TEMPORARY SEEDING AND MULCHING AS SOON AS STOCKPILING OPERATIONS ARE COMPLETED OR A SILT FENCE SHALL BE INSTALLED ALONG AND 5' MIN. FROM THE TOE OF THE STOCKPILE. TOPSOIL SHALL BE REPLACED AS QUICKLY AS CONSTRUCTION PERMITS.

3. SEEDING AND MULCHING IN DITCHES AND SWALES WITH STEEP GRADIENTS OR A FLOW GREATER THAN 3.5 FPS SHALL BE SECURED WITH JUTE OR EXCELSIOR MATTING.

SEED TYPE:

SELECT A SPECIES OF MOISTURE APPROPRIATE FOR THE SITE.

1. TEMPORARY SEEDING (SEE TEMPORARY SEEDING TABLE--THIS SHEET)

2. FINAL SEEDING
TOPSOIL THICKNESS TO BE 4" THICK, WITH SEED BED PREPARATION AS EXPLAINED BELOW. 60% KENTUCKY BLUEGRASS, 30% KENTUCKY 31 FESCUE, AND 10% PERENNIAL RYEGRASS.

SEED BED PREPARATION:

1. WORK THE LIME AND FERTILIZER (12-12-12 ANALYSIS, OR EQUIVALENT) INTO THE SOIL TO A DEPTH OF TWO INCHES. ON SLOPING AREAS, THE FINAL OPERATION SHALL BE ON THE COUNTOUR.

INSTALLATION:

1. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER [illegible] AND FERTILIZER) ON A FIRM, MOIST SEEDBED. COVER TO A DEPTH [illegible] 1/2" AND FIRM SEEDBED WHERE FEASIBLE.

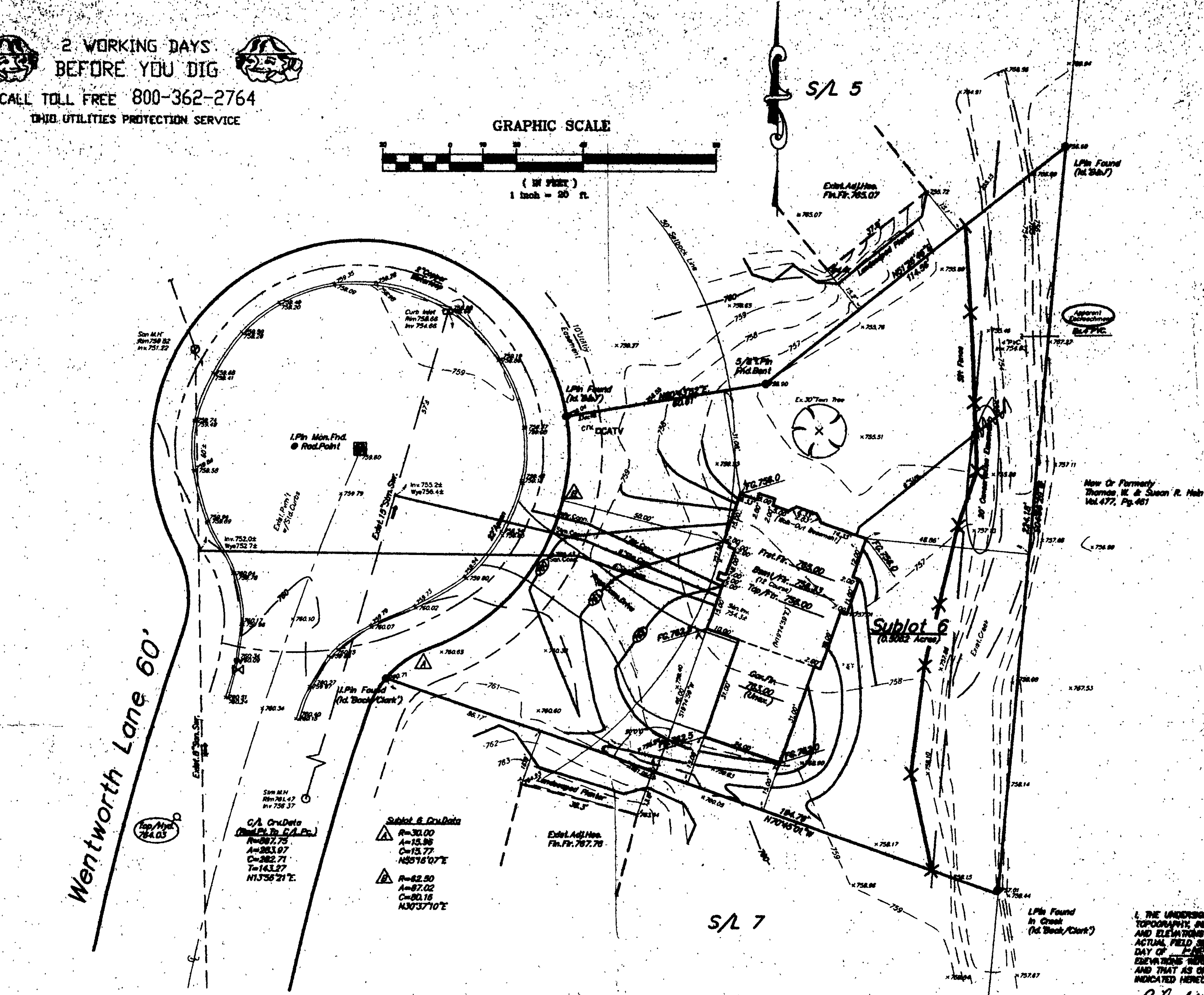
MULCHING: (SEE TEMPORARY SEEDING TABLE--THIS SHEET)

1. MULCH SHALL BE APPLIED TO PROTECT THE SOIL AND PROVIDE A BETTER ENVIRONMENT FOR PLANT GROWTH CONSISTING OF SMALL GRAIN STRAW (PREFERABLE WHEAT OR RYE) AND SHALL BE APPLIED APPLIED AT THE RATE OF TWO TONS PER ACRE OR 100 lbs. (TWO OR THREE BALES) PER 1000 S.F.

MAINTENANCE:

1. IRRIGATION - IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED.

2. REPAIRS - INSPECT ALL SEEDED AREAS FOR FAILURES AND MAKE NECESSARY REPAIRS, REPLACEMENTS, RESEEDING, AND REMULCHING WITHIN THE PLANTING SEASON, IF POSSIBLE.



TEMPORARY SEEDING		
MARCH 1'ST TO AUGUST 15'TH	PER 1000 SQUARE FEET	PER ACRE
1. OATS OR ANNUAL RYEGRASS	3 POUNDS	131 POUNDS
2. PERENNIAL RYEGRASS	3 POUNDS	131 POUNDS
3. TALL FESCUE	1 POUND	43 POUNDS
AUGUST 16'TH TO NOVEMBER 1'ST	PER 1000 SQUARE FEET	PER ACRE
1. CEREAL RYE OR WHEAT	3 POUNDS	131 POUNDS
2. 50/50 MIX PERENNIAL RYEGRASS & ANNUAL RYEGRASS	3-3-6 POUNDS	262 POUNDS
3. TALL FESCUE	1 POUND	43 POUNDS

TABLE 5.07-A
ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES:	RATE: PER ACRE	RATE: PER 1000 S.F	NOTES:
STRAW OR HAY	2 TONS (MINIMUM 3 TONS FOR WINTER COVER)	90 LBS. SEE ODOT ITEM 659.09	FREE FROM WEEDS AND COURSE MATTER. MUST BE ANCHORED. SPREAD WITH MULCH BLOWER OR BY HAND.
FIBER MULCH	MINIMUM 1500 LBS.	35 LBS	DO NOT USE AS MULCH FOR WINTER COVER OR DURING HOT, DRY PERIODS. *APPLY AS SLURRY.
CORN STALKS	4-6 TONS	185-275 LBS	CUT OR SHRED IN 4-6" LENGTHS. AIR-DRIED. DO NOT USE IN FINE TURF AREAS. APPLY W/MULCH BLOWER OR BY HAND.
WOOD CHIPS	4-6 TONS	185-275 LBS	FREE OF COURSE MATTER. AIR-DRIED. TREAT W/12 LBS. NITROGEN PER TON. APPLY W/MULCH BLOWER, CHIP HAND, OR BY HAND
BARK CHIPS OR SHREDDED BARK	50-70 CU. YDS.	1-2 CU. YDS.	FREE OF COURSE MATTER. AIR-DRIED. APPLY WITH MULCH BLOWER, CHIP HANDLER, OR BY HAND

* WHEN FIBER MULCH IS THE ONLY AVAILABLE MULCH DURING PERIODS WHEN STRAW SHOULD BE USED, APPLY AT A MINIMUM RATE OF 2000 LBS/ACRE OR 45 LBS/1000 S.F.

TEMPORARY SEEDING AND MULCH MATERIALS
NO SCALE DEC. 17, 1999

SITE DESCRIPTION (MARK ONE)
[illegible] RESIDENTIAL
TOTAL AREA
PRE-DEV. RUNOFF COEFF.
AREA TO BE CLEARED
AREA TO BE DISTURBED
POST DEV. RUNOFF COEFF.
SOIL TYPES:
SITE LOCATION INFORMATION
CITY, VILLAGE, TOWNSHIP: Concord — COUNTY: Lake — STATE: Ohio
[illegible]

ACCEPTABLE EROSION CONTROL TIMETABLE

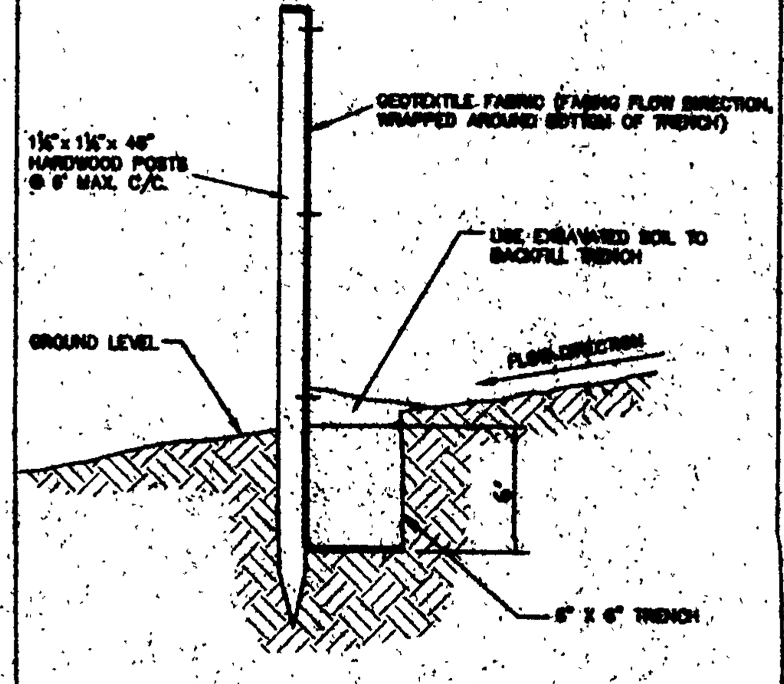
[illegible]

SEEDINGS INSTALLED FROM MAY 15 - AUG 15 WILL REQUIRE ADDITIONAL WATERING TO PROMOTE SEED GROWTH. MULCH MAY ALSO BE USED TO HOLD MOISTURE.

SCHEDULE OF MAJOR CONSTRUCTION OPERATIONS

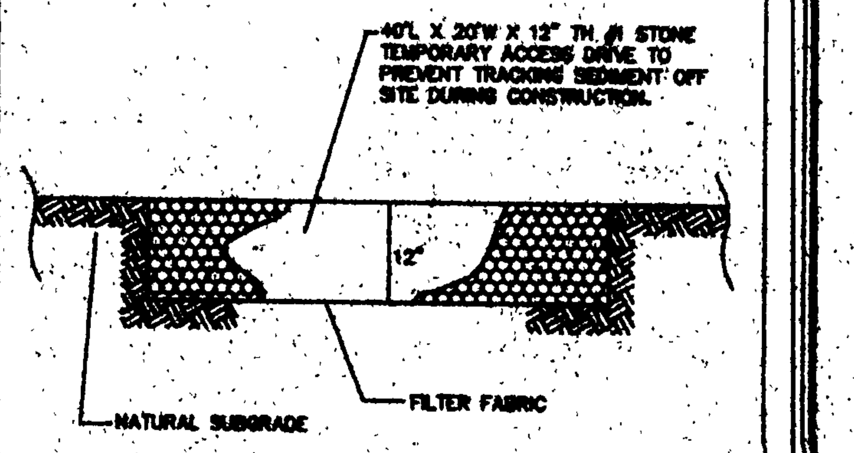
[illegible]

EROSION CONTROL TIMETABLE
NO SCALE DEC. 17, 1999



TYPICAL CROSS SECTION

SILT FENCE DETAIL
NO SCALE DECEMBER 18, 1997



STONE ACCESS DRIVE
NO SCALE DCEMBER 18, 1997

SITE PLAN

For : Jim Splsak (CLIENT)

10990 Neal Dr. (ADDRESS, STREET) — Newbury (CITY)

5 (SUBLOT No.) — Worthington Hills Sub. (SUBDIVISION NAME) — 24 (VOL.) — 31 (PAGE)

20 (LOT) — 4 (TRACT) — Concord (CITY/TOWNSHIP) — OHIO

Prepared By:
LAND DESIGN consultants
Civil Engineers and Surveyors
[illegible]

DESIGN CERTIFICATION

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

[signature]
NAME

CHECK LIST

[illegible]

STATE SEAL — STATE OF OHIO — RICHARD A. THOMPSON JR. S-7380 — PROFESSIONAL SURVEYOR

"AS BUILT" CERTIFICATION

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

NAME

LEGEND	DRAWN BY	SCALE
STORM MANHOLE / SANITARY MANHOLE / EXISTING CONTOURS / PROPOSED CONTOURS / EXIST. ELEV. 100.0 / F.G.100.0 = PROP. ELEV. / DIRECTION OF SURFACE DRAINAGE	JRP	1"=20'-0"
	CHK'D BY/FIELD	DATE
	R.A.T.	Jan.,2000
	1	Site & Grade Hse. 1-17-2000
	2	Add Erosion Ctrl Notes 3-15-00

ACCEPTED: ________ CLIENT ________ DATE

BENCHMARK: B.M.=Inv.Of Sanitary Manhole Located Opposite Sublot 6, Per 'As-Built' Plans Prepared By Gutoskey & Assoc., Dated 10-27-95; Inv.Elev. 751.22

-T.B.M. Set On Top Of Hydrant Located Opposite Adj.Sublot 7; Elev. 764.03

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 6", 1', OR 2' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME ON THE ___ DAY OF ________ 19___ AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE THEY EXISTED AS INDICATED HEREON.

[signature]
Richard A. Thompson, Jr. P.S.7380

Grading Plan Approved as shown and/or noted
THOMAS P. GILLES, P.E.
Lake County Engineer
By ________ Date 3/24/2000

Ref. Concord zoning 02009658

ROOF DRAINS SHALL DISCHARGE TO SPLASH BLOCKS.

DWG. NAME
SPISJ1-0001