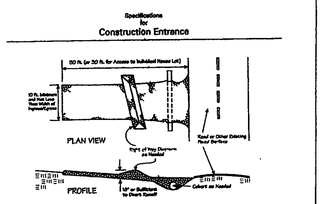
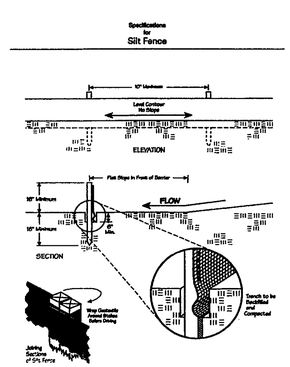
Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer
By L.S. Date 4/8/08



1. Stone Size–Two-inch stone shall be used, or recycled concrete equivalent.
2. Length–The construction entrance shall be as long as required to stabilize high traffic areas but not less than 50 ft. (except on single residence lot where a 30-ft. minimum length applies).
3. Thickness–The stone layer shall be at least 8 in. thick.
4. Width–The entrance shall be at least 10 ft. wide, but not less than the full width at points where ingress or egress occurs.
5. Bedding–A geotextile shall be placed over the entire area prior to placing stone. It shall have a Grab Tensile Strength of at least 200 lb. and a Mullen Burst Strength of at least 190 lb.
6. Culvert–A pipe or culvert shall be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed out onto paved surfaces.
7. Water Bar–A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.
8. Maintenance–Top dressing of additional stone shall be applied as conditions demand. Mud spilled, dropped, washed or tracked onto public roads, or any surface where runoff is not checked by sediment barriers, shall be removed immediately. Removal shall be accomplished by scraping or sweeping.
9. Construction entrances shall not be relied upon to remove mud from vehicles and pavement still-site tracking. Vehicles that enter and leave the construction-site shall be restricted from muddy areas.

CONSTRUCTION ENTRANCE - PID 158



SILT FENCE - PAGE 120

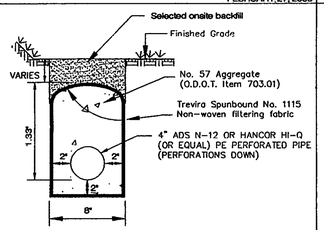
Temporary Seeding Species Selection

Seeding Dates	Species	*Lb./1,000 ft.2*	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.
	Annual Ryegrass	1	40 lb.

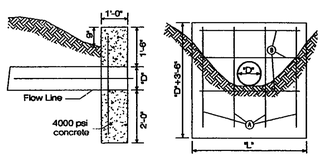
November 1 to Spring Seeding
"Use mulch only, sodding practices or dormant seeding."

Note: Other approved seed species may be substituted.

TEMPORARY
SEEDING SPECIFICATIONS
(SHEET 1 OF 2)
FEBRUARY 27, 2006



UNDERDRAIN DETAIL
(SOUTHEAST SIDE OF DRIVEWAY)
NO SCALE JULY 14, 2005



"D" DIAM OF PIPE	"L" LENGTH OF HEADWALL	QUANTITIES IN ONE (1) HEADWALL "A" BARS NO	"A" BARS LENGTH	"B" BARS NO.	"B" BARS LENGTH	STEEL LBS.	CONCRETE C.Y.
12"	4'-0"	4	4'-0"	4	3'-6"	20	0.7
15"	5'-0"	4	4'-3"	4	4'-6"	24	0.9
18"	5'-9"	4	4'-9"	4	5'-3"	26	1.0
21"	6'-9"	4	4'-9"	4	6'-3"	30	1.2
24"	7'-6"	4	5'-0"	4	7'-0"	32	1.4
27"	8'-6"	4	5'-3"	4	8'-0"	36	1.7
30"	9'-3"	4	5'-6"	4	8'-9"	38	1.9
33"	10'-3"	4	5'-9"	4	9'-9"	42	2.2
36"	11'-0"	4	6'-0"	4	10'-6"	44	2.4

ODOT HW-D HEADWALL DETAIL
NO SCALE JULY 20, 2005

CONCORD TOWNSHIP ZONING OFFICE
Zoning Permit # 03-08-1248
Date Issued 3/10/08
Subject to Approval By:
- ☑ Lake Co. Engineer/Storm Water Mgmt.
- ☑ Lake Co. Utilities Dept.
- ☑ Lake Co. Soil + Water District
- ☑ Lake Co. Health District
- ☐ Lake Co. Building Dept.

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 NOT BEEN CONDUCTED WHERE PRACTICAL. HOWEVER, LDC INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

Abbreviated Site Plan - Erosion and Sediment Control Notes (Individual Homesites) (5-13-05)

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
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.

Temporary Seeding
Disturbed areas of the site that are to remain idle for more than Twenty-one (21) 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.

Mulching
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.

Maintenance
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.

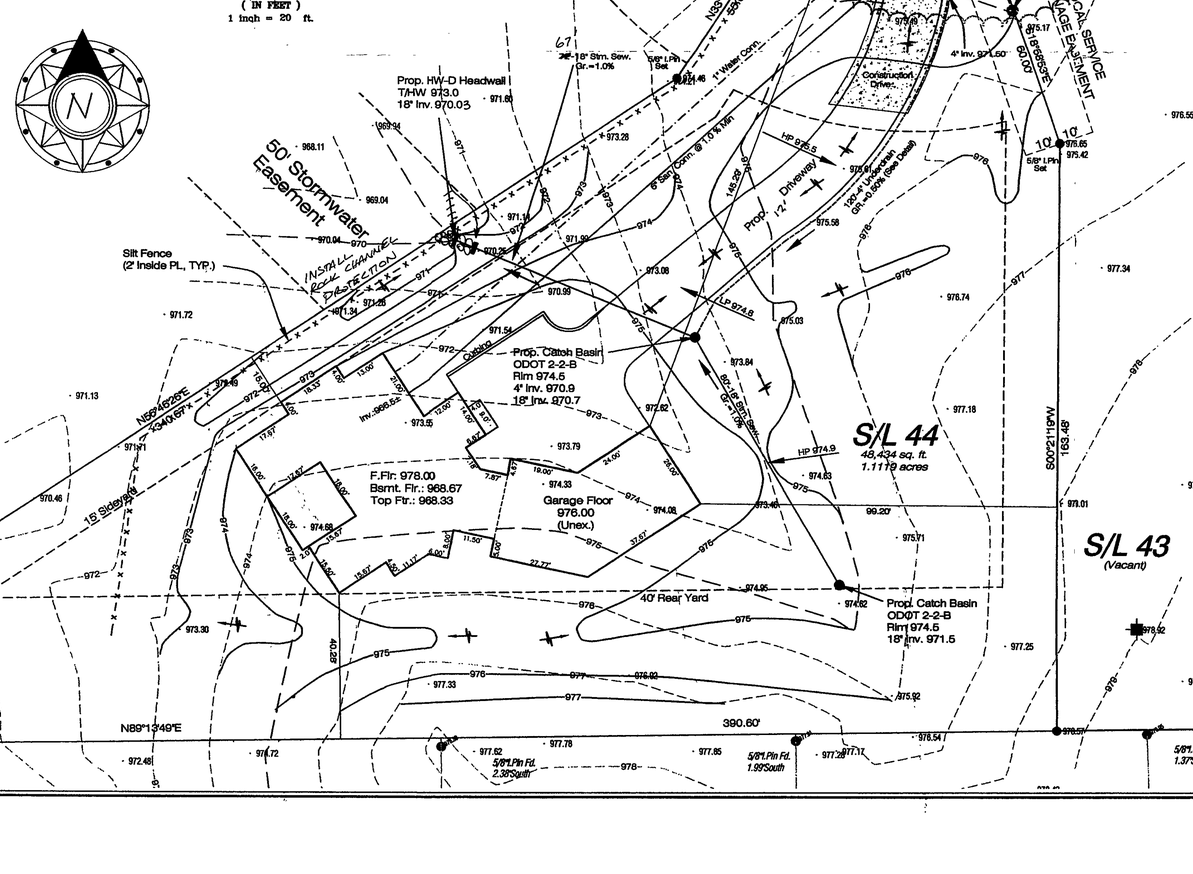
Note:
All erosion and sediment control specifications, applications, and timetables are based of the descriptions and standards of The Ohio Department of Natural Resources "Rainwater and Land Development Manual" and can be found in the Lake County Erosion and Sediment Control Rules as adopted December 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

NOTE: THE CONTRACTOR/BUILDER SHALL NOTIFY THE APPROVING ENGINEER IF GROUNDWATER IS OBSERVED DURING THE EXCAVATION OF THE BASEMENT.
–Contractor To Verify Depth And Location Of Utility Connections;
–See Architect Plans For Complete House Dimensions.

Architectural Review Approved as noted by Driftwood Properties, LLC
Authorized Agent
2/15/08
Date

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



SITE PLAN

For : Rick Krocker
CLIENT

8515 Grouse Ridge Road — Chardon
ADDRESS STREET CITY

44 — Noble Ridge Subd. Ph. 3
SUBLOT No. SUBDIVISION NAME VOL. PAGE

Concord — OHIO
LOT TRACT CITY/TOWNSHIP

L.D.C. Inc. d.b.a. LDC INC
Prepared By:
LAND DESIGN consultants
Civil Engineers and Surveyors
8585 EAST AVENUE MENTOR, OHIO 44060
TELEPHONE 255-8463 354-8638 951-LAND

DESIGN CERTIFICATION

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

NAME

CHECK LIST

LOT DIMENSIONS & BEARINGS
TIE TO NEAREST STREET
SUBLOT No. (PARCEL No.)
SUBDIVISION DIMENSIONS
BUILDING DIMENSIONS
SETBACK, SIDEYARD, REARYARD
FINISHED GRADES
DRIVE & APRON TYPE, WIDTH, THICKNESS
SIDEWALK TYPE, WIDTH, THICKNESS
CULVERT TYPE, DIAM., LENGTH
WATER MAIN SIZE, LOCATION
SAN. SEWER SIZE, % GRADE, LOC.
SAN. MH CAST, ELEV., MH, ELEV.
SAN. CHAN. SIZE, % GRADE, LOC.
STORM SEWER SIZE, % GRADE, LOC.
STORM MH CAST, ELEV., MH, ELEV.
FIRST FLR., CRAWL, BSMT. ELEV.
GAS LINE LOC., SIZE
SEPTIC SYSTEM & DESIGNATION
WELL LOCATION & ISOLATION RADIUS

STATE OF OHIO JAMES R. PEGORARO, JR. S-8150 REGISTERED PROFESSIONAL SURVEYOR
EDIT 5/04

"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
STORM MANHOLE
SANITARY MANHOLE
EXISTING CONTOURS
PROPOSED CONTOURS
EXIST. ELEV. 1003.8
F.G.100.0 = PROP. ELEV.
DIRECTION OF SURFACE DRAINAGE

DRAWN BY	SCALE
JRP	1"=20'
CHK'D BY/FIELD	DATE
	June 2006

1	Site/Gde 1/30/07
2	Rev. Hse 5/9/07

ACCEPTED: CLERK DATE

BENCHMARK:

Invert of San Manhole shown per As-Built Imp. Plans
Elev:963.20

TBM:Rim of Inlet MH between S/L's 43 & 44
Elev:974.98

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 0', 1', OR 2' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME ON THE 21st DAY OF June, 2006 AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE THEY EXISTED AS INDICATED HEREON.

James R. Pegoraro, Jr. P.S.8150

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

DWG. NAME
Krocr1-0601