

GRAND DEVELOPMENT COMPANY LLC.
DOC# 2005R046076
PPN 20-A-022-E-00-003-0

4" INTERCEPTOR DRAIN
DISCHARGE TO DAYLIGHT. INSTALL PER
DETAIL ON DRAWING 6. ANIMAL GUARD TO
BE INSTALLED AT END OF DRAIN PIPE.

NEW HOUSEHOLD SEWAGE
TREATMENT SYSTEM(HSTS)
(see detail on drawing 4 & 6)

NEW 4" PVC SANITARY LATERAL CONNECTION
CONTRACTOR TO FIELD VERIFY INVERT FROM HOME
TO MATCH PROVIDE ±40' L.F. @ 1.0% SLOPE

RIP-RAP
RUN STORM
TO DAYLIGHT
PROPOSED 6" STORM FOR FOOTER
DRAINS AND DOWNSPOUTS

FUTURE DUPLICATION ZONE #2
FUTURE DUPLICATION ZONE #1

MICHAEL C. AND NICOLE
T. CARLISLE
DOC# 2005R046076
PPN 20-A-022-E-00-004-0
3.0705 ACRES PLAT TO RW

PROPOSED GEOTHERMAL
WELL AREA

N89°49'23"W 835.38' R&U 835.41'

SITE PLAN

SCALE: 1"=40'

START - UP:
THE INSTALLER SHALL SCHEDULE A START-UP
WHERE THE INSTALLER, EQUIPMENT SUPPLIER,
HEALTH DEPARTMENT, AND DESIGN ENGINEER
ARE ALL PRESENT. THE TANKS SHALL BE FULL OF
WATER SO THAT PUMP TESTS CAN BE
PERFORMED. THE START UP SHALL INCLUDE
DRAW DOWN TESTS, PUMP CYCLING TESTS, AND
DRAIN FIELD INSPECTION/PRESSURE TESTS.

INSTALLATION:
THE INSTALLER SHALL CONTACT DESIGN
ENGINEER 48 HOURS PRIOR TO START OF
CONSTRUCTION. INSTALLER SHALL CONTACT
DESIGN ENGINEER IN THE EVENT THAT ANY
PORTION OF THE SYSTEM IS CHANGED DUE TO
SITE CONDITIONS. DESIGN ENGINEER SHALL
APPROVE OF ANY CHANGES. IN THE EVENT THAT
CHANGES ARE MADE WITHOUT CONSULTATION
WITH THE DESIGNER, INSTALLER SHALL TAKE
FULL RESPONSIBILITY FOR THE SYSTEM.

SUPPLY/RETURN PIPING:
ALL FORCEMAIN PIPING SHALL
BE INSTALLED MINIMUM OF 24"
OR BELOW REGIONAL FROSTLINE,
WHICHEVER IS GREATER.

EMITTER TUBING:
ARRANGEMENT OF EMITTER TUBING
SHALL FOLLOW CONTOURS AS SHOWN.
SEE DETAILS ON DRAWING.

DOWNSLOPE ISOLATION AREAS:
AREAS DESIGNATED ON DOWNSLOPE SIDE OF
DRAIN ZONES ARE TO REMAIN UNDISTURBED
DURING CONSTRUCTION AND REMAIN
UNDISTURBED IN FUTURE.
ISOLATION AREA SHALL RUN LENGTH OF DRAIN
ZONE EXTENDING 20' MINIMUM IN WIDTH.

NOTE:
CONTRACTOR IS TO LOCATE ALL NECESSARY
PROPERTY LINES TO ENSURE ALL SEPTIC LINES
AND DRAIN FIELD TUBING ADHERE TO LOCAL AND
STATE REGULATIONS FOR PROPERTY LINE
OFFSETS FOR SEPTIC. MINIMUM OFFSET FROM
ALL PROPERTY LINES SHALL BE TEN(10) FEET.

BASIS OF DESIGN:
NO. OF BEDROOMS: 3
DRAIN ZONE DESIGN FLOW: 360 GPD
OF PRIMARY DRAIN ZONES: QTY. 2
REPLACEMENT AREA: NO

GENERAL NOTES & REFERENCES:
BOUNDARY LINES SHOWN ARE FOR
INFORMATIONAL PURPOSES ONLY, AND
DOES NOT REPRESENT AN ACTUAL
BOUNDARY SURVEY. ADDITIONAL
PROPERTY INFORMATION BEYOND SEPTIC
AREA ACQUIRED FROM LAKE COUNTY
AUDITORS WEB SITE.

40 0 20 40
1 inch = 40 ft.

Stormwater Management Plan
Approved as shown and/or noted
JAMES R. GILLS, P.E.
County Drainage Engineer

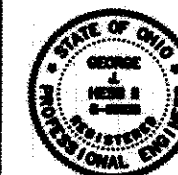
By J.S. Date 10/18/11

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



HESS & ASSOCIATES
ENGINEERING INC.
12121 KINSMAN ROAD
NEWBURY, OHIO 44065
Telephone: (440) 564-8008
Fax: (440) 564-8176

PREPARED UNDER THE
SUPERVISION OF:



REVISIONS

Michael & Nicole Carlisle Property
HOUSEHOLD SEWAGE TREATMENT &
ONSITE DISPOSAL SYSTEM
SITE PLAN

SITE LOCATION:
10180 Orchard Drive-Parcel #20A022E000040
Kirtland, Lake County, State of Ohio

Site Address:

10180 Orchard Drive
Parcel #20A022E000040
Kirtland
Lake County-State of Ohio

Prepared For:

Otero Signature Homes
8859 E. Washington St.
Bainbridge, OH
(216) 346-7301

HESS Project #11-079

DESIGNED BY: MT
DRAWN BY: MT
CHECKED BY: GJH
DATE: 9/20/11
SCALE: 1"=40' H.
N/A V.