



LOCATION PLAN (PORTION OF NEW HOPE BOROUGH ZONING MAP DATED 09/2006) SCALE: = 800'

PKD-Penn-Klinesville channery silt loams, 15 to 25 percent slopes

- Map Unit Setting**
- Elevation: 250 to 1,300 feet
 - Mean annual precipitation: 36 to 50 inches
 - Mean annual air temperature: 46 to 57 degrees F
 - Frost-free period: 130 to 200 days
- Map Unit Composition**
- Penn and similar soils: 70 percent
 - Klinesville and similar soils: 20 percent

- Description of Penn**
- Setting**
- Landform: Hill slopes
 - Landform position (two-dimensional): Backslope, shoulder
 - Landform position (three-dimensional): Side slope, nose slope
 - Down-slope shape: Linear, convex
 - Across-slope shape: Convex, linear
 - Parent material: Residuum weathered from shale and siltstone

- Properties and qualities**
- Slope: 15 to 25 percent
 - Depth to restrictive feature: 20 to 40 inches to lithic bedrock
 - Drainage class: Well drained
 - Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 6.00 in/hr)
 - Depth to water table: More than 80 inches
 - Frequency of flooding: None
 - Frequency of ponding: None
 - Available water capacity: Low (about 4.1 inches)

- Interpretive groups**
- Land capability (nonirrigated): 4e

- Typical profile**
- 0 to 8 inches: Channery silt loam
 - 8 to 21 inches: Channery silt loam
 - 21 to 34 inches: Very channery silt loam
 - 34 to 44 inches: Bedrock

Description of Klinesville

- Setting**
- Landform: Hills
 - Landform position (two-dimensional): Shoulder
 - Landform position (three-dimensional): Side slope
 - Down-slope shape: Linear, convex
 - Across-slope shape: Convex, linear
 - Parent material: Acid reddish brown residuum weathered from shale and siltstone

- Properties and qualities**
- Slope: 15 to 25 percent
 - Depth to restrictive feature: 10 to 20 inches to paralic bedrock
 - Drainage class: Somewhat excessively drained
 - Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
 - Depth to water table: More than 80 inches
 - Frequency of flooding: None
 - Frequency of ponding: None
 - Available water capacity: Very low (about 1.5 inches)

- Interpretive groups**
- Land capability (nonirrigated): 6e

- Typical profile**
- 0 to 8 inches: Channery silt loam
 - 8 to 14 inches: Very channery silt loam
 - 14 to 18 inches: Extremely channery silt loam
 - 18 to 28 inches: Bedrock

NO.	DATE	REVISION
1	12/16/09	NEW HOPE ZHB COMMENTS APPROVAL TO REMOVE TREES
2	2/26/10	GILMORE & ASSOCIATES COMMENTS

ZONING PERMIT PLAN
EXISTING FEATURES & DEMOLITION PLAN
LANDS OF
KEHILAT HANAHAR, TMP NO.27-10-2
NEW HOPE BOROUGH BUCKS COUNTY

KNIGHT ENGINEERING INC.
4998 MECHANICVILLE ROAD, P.O. BOX 247
MECHANICVILLE, PENNSYLVANIA 18934
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SCALE 1" = 30'	DATE 12/7/2009	DRAWN BY BMC	PLAN NO. 5302	DWG. NO. 2 OF 7
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KIE-Klinesville very channery silt loam, 25 to 45 percent slopes

- Map Unit Setting**
- Elevation: 300 to 1,300 feet
 - Mean annual precipitation: 36 to 50 inches
 - Mean annual air temperature: 46 to 57 degrees F
 - Frost-free period: 130 to 200 days

- Map Unit Composition**
- Klinesville and similar soils: 85 percent

- Description of Klinesville**
- Setting**
- Landform: Hillslopes
 - Landform position (two-dimensional): Shoulder
 - Landform position (three-dimensional): Side slope
 - Down-slope shape: Linear, convex
 - Across-slope shape: Convex, linear

- Properties and qualities**
- Slope: 25 to 45 percent
 - Depth to restrictive feature: 10 to 20 inches to paralic bedrock
 - Drainage class: Somewhat excessively drained
 - Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
 - Depth to water table: More than 80 inches
 - Frequency of flooding: None
 - Frequency of ponding: None
 - Available water capacity: Very low (about 1.4 inches)

- Interpretive groups**
- Land capability (nonirrigated): 7e

- Typical profile**
- 0 to 8 inches: Channery silt loam
 - 8 to 14 inches: Very channery silt loam
 - 14 to 18 inches: Extremely channery silt loam
 - 18 to 28 inches: Bedrock

LEGEND

- RIGHT-OF-WAY LINE
- CENTERLINE
- EXISTING ENCROACHMENTS
- EXISTING CONTOURS (2 FEET)
- EXISTING CONTOURS (10 FEET)
- EXISTING SOILS CONTOURS
- LIMIT OF DISTURBANCE
- SLOPE OVER 25%
- SLOPE 15%-25%
- SLOPE 8%-15%
- EXISTING DECIDUOUS TREE
- EXISTING TREE TO REMAIN - MINOR IMPACT
- TREE STUMP
- EXISTING TREE (LESS THAN 15") TO BE REMOVED



RESOURCE REPORT:

SLOPE RANGE (%)	AREA (SF)	AREA (AC)	COVERAGE (%)	PERMITTED DISTURBANCE (%/AC)	PROPOSED DISTURBANCE (%/AC)
0% - 8%	25038.72 SF	0.575 AC	12.74%	100% = 0.575 AC	69.45% = 0.399 AC
8% - 15%	45430.86 SF	1.043 AC	23.11%	50% = 0.522 AC	22.61% = 0.236 AC
15% - 25%	52717.33 SF	1.210 AC	26.81%	30% = 0.363 AC	29.06% = 0.351 AC
25% +	73420.30 SF	1.685 AC	37.34%	15% = 0.253 AC	5.93% = 0.099 AC
*8% - 15% WOODED**	124264.48 SF	2.853 AC	63.74%	40% = 1.141 AC	13.82% = 0.376 AC
OUTSIDE WOODS	70692.52 SF	1.623 AC	36.26%	50% = 0.811 AC	32.82% = 0.534 AC

** MAXIMUM PERMITTED DISTURBANCE OF WOODED AREAS = 40%

PROFESSIONAL LAND SURVEYOR CERTIFICATION
I, THOMAS H. CREWS, PLS. DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE SURVEY INFORMATION CONTAINED IN THE ACCOMPANYING PLANS, SPECIFICATIONS, AND REPORTS HAS BEEN PREPARED IN ACCORDANCE WITH ACCEPTED SURVEYING PRACTICE, IS TRUE AND CORRECT.

PROFESSIONAL ENGINEER CERTIFICATION
I, DANIEL E. GRAY PE, 54880-E DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE INFORMATION CONTAINED IN THE ACCOMPANYING PLANS, SPECIFICATIONS, AND REPORTS HAS BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE, IS TRUE AND CORRECT.

(SIGNATURE) (REGISTRATION #) (DATE) (SIGNATURE) (REGISTRATION #) (DATE)