

### **NEW BRITAIN TOWNSHIP**

207 Park Avenue • Chalfont, PA 18914 • Telephone: (215) 822-1391

#### CONDITIONAL USE HEARING APPLICATION

TOWNSHIP USE ONLY

Application #

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				pertinent sections of this form. Pleas ou need any assistance.	Date Filed: 2-10-23; KG; m Payment: \$ 2500
1.	Date:				Check #: # 12.18
2.	Applica	int:			Receipt #: # 13482
	(a)	Name:	Herding Butterfli	es, L.P.	
	(b)	Mailing address:	120 Liberty Ln Chalfont, PA 189	914	
	(c)	Telephone number:	(215) 606-0178 (/	Attorney)	and the second s
	(d)	State whether owne Legal Owner	r of legal title, owr	ner of equitable title, or tenant with the permis	sion of owner of legal title;
3.	Applica	int's attorney, if any:			
	(a)	Name:	Kellie McGowan	, Esq.	N.
	(b)	Mailing Address:	10 S. Clinton Street Doylestown, PA		
	(c)	Telephone number:	(215) 606-0181		1
	(d)	Fax Number:	(215) 348-1804		1
4.	Propert	y:			1.
	(a)	Present Zoning Use	Classification:	IO - Industrial/Office	1
	(b)	Tax Parcel Number:		26-001-100-005	1
	(c)	Location (With reference to nearby intersections or prominent features); Off Liberty Lane cul-de-sac; Abuts County Line Road (no access)			
5.	Propos				
		to be used as and		3 Warehousing with addition of gravel lot rage Use	1
6.	Has an	y previous zoning applie Yes (see attached /		concerning this property? If yes, specify:	
l (We)	hereby ce	ertify that the above info	rmation is true an	d correct to the best of my (our) knowledge, i	nformation or belief.
				jks	en She Sun

#### Notes:

One copy of plans (if size 8 1/2" x 11") or seven copies (if larger than size 8 1/2" x 11") must be attached to the application. The plan or plans (1) must be prepared by a professional engineer or surveyor. The plan or plans must contain all information relevant to the application, including but not limited to, the following: the property related to a street, the dimensions and area of the lot, the dimensions and location of existing buildings or improvements, the dimensions and locations of proposed uses, buildings or improvements.

Signature

Filing fee, which must accompany this application, and which is not returnable once the application is accepted. (2) Conditional Use Application Fee: \$2,500.00, plus Professional Services Agreement and escrow.



Stephen M. Zaffuto, Esquire Direct Dial: 215-606-0249 stephen.zaffuto@obermayer.com www.obermayer.com Obermayer Rebmann Maxwell & Hippel LLP

10 S. Clinton Street, Suite 300 Doylestown, PA 18901-4640 P: 215-606-0760

F: 215.348-1804

February 9, 2023

PEGELVED FEB 1 0 2023

VIA ELECTRONIC CORRESPONDENCE

Ryan Gehman, Assistant Planning and Zoning Officer New Britain Township 207 Park Avenue Chalfont, PA 18914-2103 rgehman@newbritaintownship.org

Re: 120 Liberty Lane - TMP No. 26-001-100-005

Dear Mr. Gehman:

As you are aware, I represent 120 Liberty Lane (the "Applicant"), with respect to its property located at 120 Liberty Lane Chalfont, PA 18914, identified as Parcel Nos. 26-001-100-005 (the "Property"). In connection herewith, enclosed please find the following:

- 1. Check for the Conditional Use Application Fee in the amount of \$2,500.00.
- 2. Completed Conditional Use Hearing Application Form, with written Addendum.
- 3. Seven (7) copies of Site Plan.
- 4. Deed vesting legal title to applicant.
- 5. Environmental Impact Statement Report with Exhibits A through C.

Please feel free to contact me should you have any questions or need any additional information.

Very truly yours,

Stephen M. Zaffuto, Esq.

### Addendum to the Conditional Use Application of Herding Butterflies, L.P. New Britain Township Board of Supervisors

RE: 120 Liberty Lane

#### **Background**

Applicant, Herding Butterflies, L.P., is the legal owner of the property located at 120 Liberty Lane in New Britain Township, Bucks County, also identified as Tax Parcel No. 26-001-100-005 (the "Property").

The Property is located within the IO Industrial/Office Zoning District pursuant to the New Britain Township Zoning Map and Zoning Ordinance ("ZO"). The Property has a gross lot area of 3.37 acres, and is presently improved with a 17,611 SF block and metal sided industrial building used as and for a K3 Warehousing use.

Applicant proposes to make certain changes to the lot to add standard and ADA accessible off-street parking spaces and also add a 17,500 SF stone paving area with an 8,800 SF fenced outside storage area. Even with the proposed changes and additions, the Property would remain in conformity with all applicable area and dimensional standards aside from a 35-foot side yard for which a variance has previously been granted. However, the L2 Outside Storage Use is only permitted in the IO Zoning District by conditional use approval.

By this Application, Applicant requests the Board of Supervisors grant a conditional use to permit the L2 Outside Storage Use within the 8,800 SF fenced area of the Property as shown on the Zoning Plan by Holmes Cunningham LLC, dated December 7, 2022, last revised January 27, 2023, attached hereto as an exhibit.

Applicant's request for conditional use is justified as the outside storage use is necessary but incidental to the principal warehousing use it and satisfies all the applicable requirements under § 27-305.L2.b of the Zoning Ordinance. Specifically:

- 1. No part of the street right-of-way, no sidewalks or other areas intended or designed for pedestrian use, no required parking areas and no part of the required front yard will be occupied by outside storage or display.
- 2. The outside storage and display areas will occupy an area of less than 0.5 of the existing building coverage.
- 3. The outside storage area will be shielded from view from all public streets.

Additionally, the application satisfies the general requirements for conditional use approval pursuant to §27-3008 of the Zoning Ordinance. Specifically, the outside storage area will be:

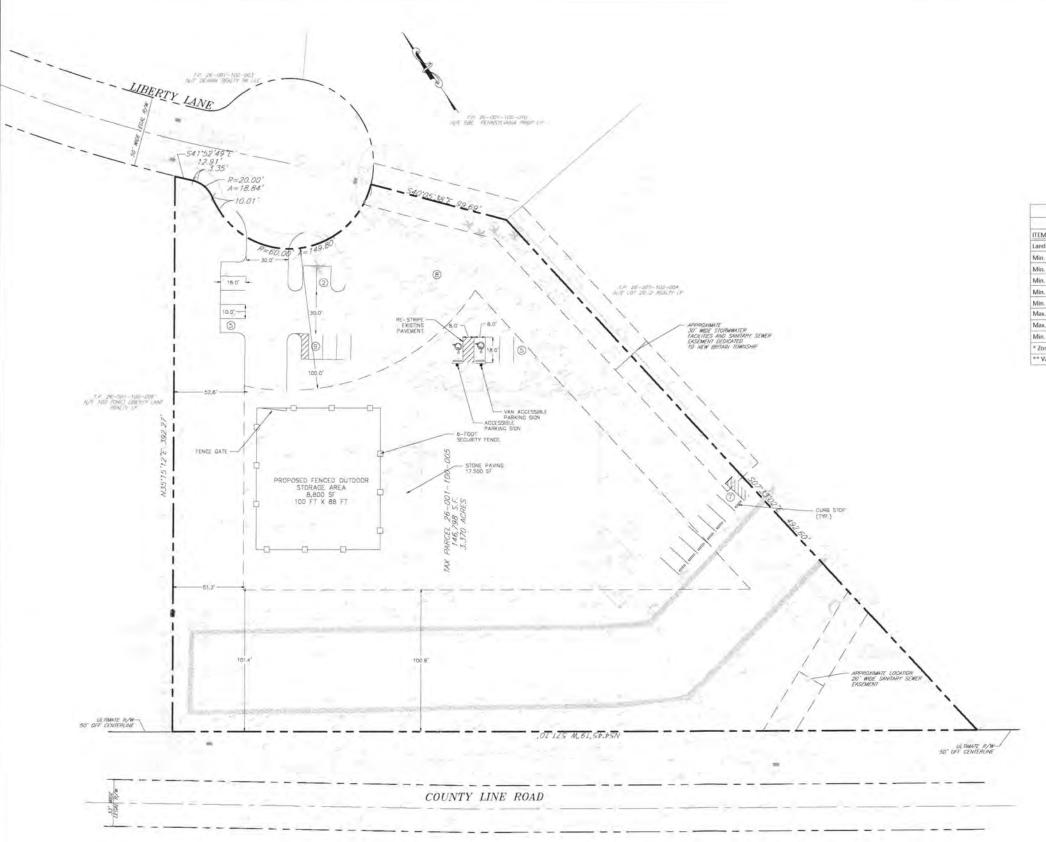
- 1. In accordance with the Township Comprehensive Plan;
- 2. In the best interests of the Township, the convenience of the community, the public welfare;
- 3. Suitable for the property in question, and designed, constructed, operated and maintained so as to be in harmony with and appropriate in appearance to the existing or intended character of the general vicinity;
- 4. In conformance with all applicable requirements of this chapter and all Township ordinances;
- 5. Suitable in terms of effect on highway traffic and safety with adequate access arrangements to protect streets from undue congestion and hazard;
- 6. In accordance with sound standards of subdivision and land development practice where applicable; and
- 7. In accordance with the specific standards and criteria of this chapter.

Applicant is entitled to the grant of a conditional use when its application meets the requirements of the Zoning Ordinance. *In re Thompson*, 869 A.2d 659 (Pa. Cmwlth. 2006) (citing *Sheetz, Inc. v. Phoenixville Borough Council*, 804 A.2d 113 (Pa. Cmwlth. 2002); *Levin Board of Supervisors of Benner Township*, 669 A2d 1063 (Pa. Cmwlth. 1995); and *Bailey v. Upper Southampton Towsnhip*, 690 A.2d 1324 (Pa. Cmwlth. 1997)).

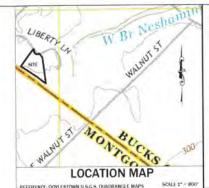
#### **Exhibit List**

- 1. Zoning Plan (7 copies)
- 2. Vesting Deed
- 3. Environmental Impact Statement Report, prepared by Holmes Cunningham Engineering

## Exhibit A



0 30 60 Feet



	ZONING DATA	TABLE*	
	ZONING DISTRICT: 10 INDUSTRI	AL/OFFICE DISTRICT	
ITEM	REQUIRED/PERMITTED	EXISTING	PROPOSED
Land Use:	K3; Wholesale Bus	iness, Wholesale Storag	e, Warehousing
Min. Lot Size	3.0 Ac.	3.37 Ac.	3.37 Ac.
Min. Lot Width	300 FT	350.0 FT	350.0 FT
Min. Front Yard Setback	100 FT	126.4 FT	101.0 FT
Min. Side Yard Setback	50 FT	35 FT **	35 FT **
Min. Rear Yard Setback	100 FT	100.8 FT	100.8 FT
Max. Impervious Coverage	60%	29.9%	46.0%
Max. Building Height	35 FT	28 FT	28 FT
Min. Parking Required	1 Per Employee	18 Spaces	36 Spaces

\*\* Variance previously granted

LOT AREA CALCULATION	NS.	
	5.F.	Acres
Gross Lot Area	146,798	3 370
Land Within R.O.W.	0	0.000
Developable Acreage	146,798	3.370
IMPERVIOUS COVERAGE CALC	JLATIONS	
Existing Impervious Are	ea	
Existing Buildings and Features	18,175	0.417
Existing Asphalt	22,111	0.50
Existing Conglete Walkways & Walls	3,644	0.084
Total Existing Impervious	43,930	1.00
Existing Impervious Coverage	29.9	%
Proposed Impervious A	rea	
Existing Buildings and Features To Remain	22,111	0.50
Existing Asphalt To Remain	18,175	0.41
Existing Concrete Walkways & Walls To Remain	3,592	0.08
Proposed Stone Paving	17,500	0.40
Proposed Asphalt	6,208	0.14
Total Proposed Impervious	67,586	1.55
Proposed Impervious Coverage	46.0%	
Building Coverage	15.1	%
Change in Impervious Area	23,6	56



- NOTES:

  1. THIS PLAN IS AN AMENOMENT TO A SITE DEVELOPMENT PLAN PREPARED FOR M.S. HORNAK
  ASSOCIATES BY STOUT, TACCONCILL & ASSOCIATES, INC. LAST REMSED SEPTEMBER 11, 1990.
  ALL NOTES, RESTRICTIONS AND ZONNO REQUIREMENTS FROM THAT PLAN SHALL CONTINUE TO
  BE APPLICABLE.

  2. THIS PLAN IS BASED ON A EXISTING FEATURES PLAN PREPARED BY CAVANAUGH SURVEYING
  SERVICES, DATED DECEMBER 30, 2020.

  3. SUBJECT PROPERTY IS WITHIN 10 INDUSTRIAL/OFFICE ZONING DISTRICT.
  FLOOD ZONE INFORMATION: SUBJECT PARCEL AREA IS LOCATED OUTSIDE ZONE X (AREAS
  DETERMINED TO BE OUTSIDE THE SOOT-MEAR FLOODPLAIN) OF THE FLOOD INSURANCE RATE.
  MAP, PARLE NO. 286 OF 532, COMMUNITY MAP NO. AZOTTOCOSBEW WHICH BEASE WHICH
  EFFECTIVE DATE OF MARCH 21, 2017.

  5. NO NEW STORMWATER MANAGEMENT FACILITIES ARE REQUIRED FOR THIS PROJECT AS THE
  ADDITIONAL IMPERVACIONE CONFACE WAS INCLUDED IN THE EXISTING STORMWATER FACILITIES
  LOCATED WITHIN THE DEVELOPMENT.



120 LIBERTY LANE
TMP# 26-001-100-005
W BRITAIN TOWNSHIP, BUCKS COUNTY, P. ZONING PLAN

1592 CO.O ZONINGPLAN.DWG Drawing No.

CO.0

# Exhibit B

#### **BUCKS COUNTY RECORDER OF DEEDS**

55 East Court Street Doylestown, Pennsylvania 18901 (215) 348-6209

Instrument Number - 2021001028 Recorded On 1/6/2021 At 7:36:52 AM

\* Total Pages - 6

- \* Instrument Type DEED
- Invoice Number 1140895
- User KLJ
- \* Grantor M S HORNIAK ASSOCIATES
- \* Grantee HERDING BUTTERFLIES L P
- \* Customer SIMPLIFILE LC E-RECORDING
- \* FEES

STATE TRANSFER TAX \$15,500.00
RECORDING FEES \$89.75
CENTRAL BUCKS SCHOOL \$7,750.00
DISTRICT REALTY TAX
NEW BRITAIN TOWNSHIP \$7,750.00
TOTAL PAID \$31,089.75

Bucks County UPI Certification On January 4, 2021 By TF

This is a certification page

#### DO NOT DETACH

This page is now part of this legal document.

RETURN DOCUMENT TO: TOHICKON SETTLEMENT SERVICES, INC. 6464 LOWER YORK RD STE B NEW HOPE, PA 18938-5608

I hereby CERTIFY that this document is recorded in the Recorder of Deeds Office of Bucks County, Pennsylvania.



Robin M. Robinson Recorder of Deeds

Win M. Winson

\* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

17D8E4

CERTIFIED PROPERTY IDENTIFICATION NUMBERS
26-001-100--005 - N BRITAIN TWP
CERTIFIED 01/04/2021 BY TF

#### Prepared by and Return to:

Tohickon Settlement Services, Inc. 6464 Lower York Road, Suite B New Hope, PA 18938 (215)794-0700

File No. 97726TSS UPI # 26-001-100-005

This Indenture, made the  $10^{th}$  day of  $100^{th}$  day of  $1000^{th}$  day of  $1000^{th}$  day of  $1000^{th}$  day of  $1000^{th}$  day of

Between

#### M.S. HORNIAK ASSOCIATES, A PENNSYLVANIA LIMITED PARTNERSHIP

(hereinafter called the Grantor), of the one part, and

#### HERDING BUTTERFLIES, L.P., A PENNSYLVANIA LIMITED PARTNERSHIP

(hereinafter called the Grantee), of the other part,

Witnesseth, that the said Grantor for and in consideration of the sum of One Million Five Hundred Fifty Thousand And 00/100 Dollars (\$1,550,000.00) lawful money of the United States of America, unto it well and truly paid by the said Grantee, at or before the sealing and delivery hereof, the receipt whereof is hereby acknowledged, has granted, bargained and sold, released and confirmed, and by these presents does grant, bargain and sell, release and confirm unto the said Grantee

ALL THAT CERTAIN of or tract of land situate In New Britain Township, Bucks County, Pennsylvania, bounded and described according to a Plan of New Britain Business Park dated April 18, 1985 and later revised and recorded in Plan Book 249 page 4, Plan prepared by Gilmore & Associates, Inc., as follows, to wit:

BEGINNING at a point on the Southwesterly side of Liberty Way (as shown on said Plan) at a corner of Lot No. 22 (as shown on said Plan); thence along the said side of Liberty Way the next three following courses and distances: (1) on the arc of a circle curving to the right having a radius of 1025.00 feet the arc distance of 12.91 feet to a point of reverse curve; (2) on the arc of a circle curving to the left having a radius of 20.00 feet the arc distance of 18.83 feet to a point of curve; and (3) on the arc of a circle curving to the right having a radius of 60.00 feet the arc distance of 148.45 feet to a point; thence along Lot No. 20 and through a 30.00 feet wide stormwater and sanitary sewer easements South 36 degrees 09 minutes 42 seconds East 100.00 feet to an angle; thence still along Lot No. 20 and through the said 30.00 feet wide stormwater and sanitary sewer easements and through stormwater detention area #1, South 03 degrees 37 minutes 06 seconds East 492.60 feet to a point on the Northeasterly side of County Line Road (as shown on said Plan); thence along the said side of County Line Road, North 50 degrees 48 minutes 52 seconds West 571.10 feet to a point; thence along Lot No. 22 North 39 degrees 11 minutes 08 seconds East 392.27 feet to the point and place of beginning.

BEING Lot No. 21 on said Plan.

ALSO Known as Bucks County Uniform Parcel Identifier: Tax Parcel No. 26-001-100-005.

BEING the same premises which Bucks County Economic Development Corporation (formerly known as Bucks County Industrial Development Corporation) by deed dated 4/30/2008 and recorded 5/14/2008 in LR 5797 page 1947 did convey unto M.S. Horniak Associates, a Pennsylvania Limited Partnership.

Together with all and singular the buildings and improvements, ways, streets, alleys, driveways, passages, waters, water-courses, rights, liberties, privileges, hereditaments and appurtenances, whatsoever unto the hereby granted premises belonging, or in anywise appertaining, and the reversions and remainders, rents, issues, and profits thereof; and all the estate, right, title, interest, property, claim and demand whatsoever of it, the said grantor, as well at law as in equity, of, in and to the same.

To have and to hold the said lot or piece of ground described above, with the buildings and improvements thereon erected, hereditaments and premises hereby granted, or mentioned and intended so to be, with the appurtenances, unto the said Grantee, its successors and assigns, to and for the only proper use and behoof of the said Grantee, its successors and assigns, forever.

And the said Grantor, for itself, its successors and assigns, does, by these presents, covenant, grant and agree, to and with the said Grantee, its successors and assigns, that it, the said Grantor, and its successors and assigns, all and singular the hereditaments and premises herein described and granted, or mentioned and intended so to be, with the appurtenances, unto the said Grantee, its successors and assigns, against it, the said Grantor, and its successors and assigns, will WARRANT SPECIALLY and defend against the lawful claims of all persons claiming by, through or under the said Grantor but not otherwise.

In Witness Whereof, the party of the first part has caused its common and corporate seal to be affixed to these presents by the hand of its Trustee, and the same to be duly attested by its Secretary. Dated the day and year first above written.

ATTEST 2	M.S. HORNIAK ASSOCIATES, A PENNSYLVANIA LIMITED PARTNERSHIP
990	By: Stephen Horniak, General and
	Limited Partner; John P. Cataldo,
[SEAL]	Jr., Trustee under the Residuary
	Trust under the Will of Mary
	Horniak a/k/a Molly Horniak;
	Stephen Horniak, Jr., Limited Partner; Colin Horniak, Limited
	Partner
	By: Toyshen Torniano
	Stephen Horniak General and
	Limited Partner
	By: Tota Cillo
	John/P. Cataldo, Jr., Trustee ,
	By: Stept byin +
	Stephen Horniak, Jr., Limited
	Partner ()
	By the County Sou
	John Colin Horniak afkla
	By: Colle Unwink Limited Portror
	Colin Horniak, Limited Partner  Commonwealth of Pennsylvania - Notary Seal
	Shannon Lee Smith, Notary Public
State of Pennsylvania	Montgomery County
County of BUCK Ss	My commission expires March 19, 2023 Commission number 1347357
	Member, Pennsylvania Association of Notaries
This record was acknowledged before m	e on 12-10-2020 by Stephen
Horniak, General and Limited Partner, who repre	esents that he is authorized to act on behalf of
M.S. Horniak Associates, a Pennsylvania Limite	d Partnership.
	- X remilting
	Notary Public On A
Delarge the ourse	My commission expires <u>03-19-202</u>
State of Phnylvania ss	
County of BUCKS	
This record was acknowledged before me	e on <u> </u>
Jr., Limited Partner, who represents that he is au	thorized to act on behalf of M.S. Horniak
Associates, a Pennsylvania Limited Partnership.	
Associates, a r emisyrvania Emitted r artifership.	Notar-Public 200
Commonwealth of Pennsylvania - Notary Seal	My commission expires <u>13-19-202</u> 3
Shannon Lee Smith, Notary Public	my dominionion expires vi propositionionioni
Montgomery County	
My commission expires March 19, 2023 Commission number 1347357	

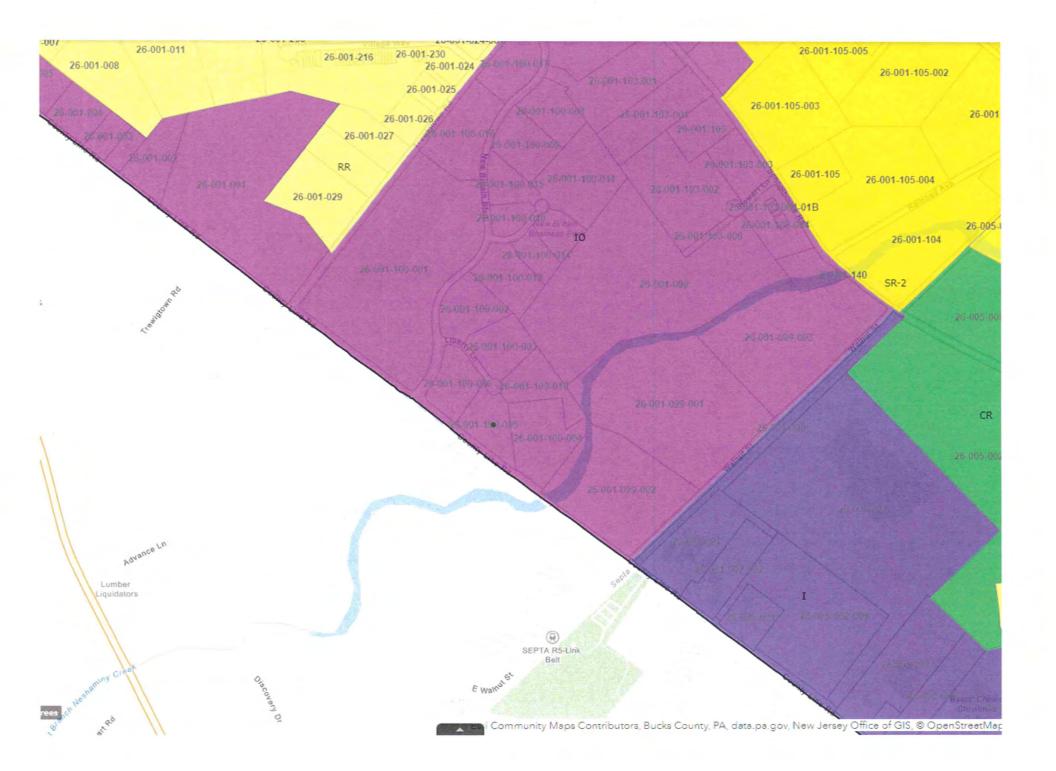
Member, Pennsylvania Association of Notaries

The precise residence and the complete post office address of the above-named Grantee is:

120 Liberty Lane Chalfont, PA 18914

On behalf of the Grantee

DEED  UPI # 26-001-100-005  M.S. Horniak Associates, a Pennsylvania Limited Partnership  TO  To  Herding Butterflies, L. P., a Pennsylvania Limited Partnership  Limited Partnership  Settlement Services, Inc. 6464 Lower York Road, Suite B New Hope, PA 18938 Phone: (215)794-0705 Fax: (215)794-0705	
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# Exhibit C



February 2, 2023

Ryan Gehman, Assistant Planning and Zoning Officer New Britain Township 207 Park Avenue Chalfont, PA 18914

RE:

**Environmental Impact Statement Report** 

Herding Butterflies, L.P. TMP#: 26-001-100-005

New Britain Township, Bucks County, PA

#### 1. Overview

This Environmental Impact Statement Report is being made in connection with a Conditional Use Application to permit an L2 Outside Storage Use on the property located at 120 Liberty Lane in New Britain Township, Bucks County, Pennsylvania, also identified as Tax Parcel No. 26-001-100-005 ("Property"), within the Township's IO – Industrial/Office Zoning District. This outside storage use will be incidental to the Property's primary use of the Property as K3 Warehousing.

The proposed outside storage area on the Property will be a 100 foot by 88 foot (8,800 square foot) portion of a proposed 17,500 stone paving area and will be surrounded by a 6-foot security fence, as shown on the Zoning Plan prepared by Holmes Cunningham LLC, dated December 7, 2022, last revised January 27, 2023 (Exhibit "A").

Other site improvements are proposed on the Property to provide access to the outside storage area as well as additional off-street parking. The areas in which site improvements are proposed are presently relatively flat, grassy areas adjacent to the existing building. The site is suitable for the outside storage area and use, and the related site improvements will comply with all applicable Township regulations.

#### Compatibility

The proposed outside storage use and related site improvements are compatible with the Township Comprehensive Plan. The L2 Outside Storage use is permitted by conditional use in the IO Zoning District, and the proposed use will satisfy all of the specific and general requirements for the conditional use set forth in the New Britain Township Zoning Ordinance.

#### 3. Location

See the Location Map at Exhibit B.

#### 4. Photographs

See photographs at Exhibit C.

#### 5. Description of the Project

- (a) See Zoning Plan at Exhibit A
- (b) The Property is owned in fee simple by the Applicant, Herding Butterflies, L.P.

#### 6. Physical Resources Inventory

The physical resources associated with the natural environment of the Property are depicted, and identified on the Zoning Plan at Exhibit A.

#### 7. Biological Inventory

The portion of the Property subject to the proposed site improvements is an unimproved, grassy area with no notable biological resources.

#### 8. Land Use Inventory

The Property is presently used as and for Use K3 Warehousing. The area and dimensional standards of the Property are set forth on the Zoning Plan at Exhibit A.

#### 9. Surface Water Inventory

There are no existing watercourses or water bodies located on the Property, and the Property is located entirely outside the 500-year floodplain. No new stormwater management facilities are required for this project, as the additional impervious coverage was included in the existing stormwater facilities located within the development.

#### 10. Subsurface Water Inventory

The Property is served by public water and sewer.

#### 11 Existing Features Inventory

Existing features are shown on the Zoning Plan at Exhibit A.

#### 12. Historic Resources Inventory

There are no historic resources associated with or within 500 feet of the Property.

#### 13. Visual Resources Inventory

There are no visual resources associated with the Property.

#### 14. Community Needs Inventory

The addition of an outside storage use accessory to an existing primary warehousing use of the Property will not create any need for additional or expanded community facilities.

#### 15. Utility Needs Inventory

The addition of an outside storage use accessory to an existing primary warehousing use of the Property will not create any need for additional or expanded utility installations.

#### 16. Transportation System Inventory

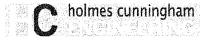
The proposed outside storage use will not have a significant effect on the relationship of the transportation and circulation systems needs of the proposed project to the existing street or highway network.

#### 17. Adverse Impacts

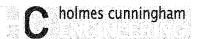
The proposed outside storage use and related site improvements will not create any probable adverse impacts. The Property is suitable for the use, and the use will comply with Township regulations regarding location, area, and shielding from view of public streets.

#### 18. Mitigation Measures

No mitigation measures will be required.



19. <u>Irreversible Impacts</u>
No irreversible environmental changes will occur due to the proposed project.













February 8, 2023

Matt West, Township Manager New Britain Township 207 Park Avenue Chalfont, PA 18914

RE: 396 King Road – Revised Plan Submission

TMP#: 26-004-030

New Britain Township, Bucks County, PA

HCE Project No.: 1734

Dear Matt:

We are in receipt of a review letters for the above-referenced project. Enclosed are copies of the revised documents. Below please find responses to each of the comments contained in those letters.

Review Letter from Gilmore & Associates, Inc. dated December 7, 2022.

#### A. Zoning Ordinance

We have identified the following issues with the proposed plan regarding the requirements and provisions of the current New Britain Township Zoning Ordinance:

- 1. §27-502.b.1.(g) & (h) The building coverage ratio and impervious surface ratio are required to be calculated based on the ratio base site area which excludes 100% protected natural resources. Lot 3 includes a watercourse, riparian buffer, floodplain, and floodplain soils which are all 100% protected resources. Lots 1 and 6 also contain a watercourse and riparian buffer. The ratio base site areas shall be calculated, and the building and impervious coverage ratios adjusted accordingly. Response: The building coverage ratio and impervious surface ratios have been revised accordingly.
- 2. §27-502.b.3. & 505.1 Natural resource protection land, such as watercourses, agricultural soils, woodlands, steep slopes, wetlands, etc., shall be protected and preserved on each site through a conservation easement on each lot. The Resource Protection Land table on Sheet 4 notes 25.12 acres of resource protection land provided. This is not consistent with the conservation easement area of 836, 122 square feet (19.19 acres) shown on the Record Site Plan, Sheet 5. The overlapping resources shall be clarified to confirm the proposed easement includes the required resource protection area.

Response: The overlapping resources have been revised and the conservation easement has been updated.

3. §27-502.b.5. – The Stormwater Management Plan Narrative models 2.32 acres of impervious coverage for the entire site. When an applicant is proposing a land development, the stormwater management facilities shall be designed to manage the runoff from the maximum impervious surface permitted for the entire site. Based on the proposed lot areas, the stormwater management facilities shall be

Phone: 215-586-3330 · 409 E. Butler Ave Unit 5 · Doylestown, PA 18901 · www.hcengineering.net

designed to handle 4.11 acres of impervious coverage from the proposed lots (12% maximum) and the private street.

Response: The stormwater management facilities were revised to account for the maximum allowable impervious coverage based on the ratio base site areas of each lot.

4. §27-505.2. – The Resource Protection Standards table on Sheet 4 notes 32.154 acres of agricultural soil onsite. The area of agricultural soil shall be delineated on the Existing Resource and Site Analysis Plan to demonstrate the 50% protection ratio is achieved.

Response: The area of agricultural soils has been added to the Existing Resource and Site analysis Plan.

5. §27-2115 – No portion of an on-lot septic system shall be located in a manner that would block any stormwater drainage from any lot. A note to this effect shall be added to the grading plan.

Response: Note 13 has been added to the grading plan.

- 6. §27-2400.a. & i. We offer the following comments related to the natural resources:
  - a. The extent of the existing watercourse and riparian buffer along the frontage shall be added to the plans and the Natural Resource Protection table revised accordingly.

Response: The extents of the existing watercourse and riparian buffer has been added to the plans and the Natural Resources Protection table.

b. Zones 1 and 2 of the riparian buffers shall be delineated and dimensioned on the plans.

Response: Zones 1 and 2 of the Riparian Buffers have been delineated and dimensioned on the plans.

c. Any improvements to the stream through Lots 1 and 6 may require approval from PADEP.

Response: Acknowledged.

d. Supplemental plantings may be required in accordance with §27-2400.i.4 to revegetate any areas where there is little or no existing streamside vegetation.

Response: Acknowledged.

7. §27-2400.c – The Resource Protection Standards table on the Existing Resource and Site Analysis Plan notes 0.536 acres of floodplain soils. The boundary for the floodplain soils (Bo soils) does not appear to be consistent with the web soil survey map and the Bucks County Parcel and Floodplain Map which both show an area close to 1 acre at the northern corner of the site. The floodplain soils area shall be verified and revised as necessary.

Response: The floodplain soils line has been verified and revised.



- 8. §27-2400.d Wetlands boundaries shall be delineated through an on-site assessment conducted by a professional soil scientist and wetland certification provided on the plans.
  - Response: No wetlands are located on site. A Wetlands report has been provided with this submission.
- §27-2401 The Site Capacity Calculations shall be coordinated with the Resource Protection Standards on the Existing Resource and Site Analysis Plan. These areas shall be reviewed and revised for consistency and discrepancies related to overlapping resources clearly noted.

Response: The Site Capacity Calculations and Resource Protection Standards have been revised accordingly.

10. §27-2402.b.2. – The base site area shall subtract lands within existing utility rights-of-way or easements. The plans show a utility easement crossing through the property. This area shall be noted in the Site Capacity Calculations on Sheet 4 or the Lot Area and Coverage Table on Sheet 5. A copy of the easement agreement shall be provided for reference.

Response: The ratio base site area calculations have been revised to account for the utility easement.

B. <u>Subdivision and Land Development Ordinance Waivers</u>

The following waivers from the Subdivision and Land Development Ordinance have been formally requested by the Applicant in a letter dated September 22, 2022:

§22-403 & 404 – From providing separate preliminary and final plan submissions.
We recommend no action be taken on this waiver until all zoning issues are resolved, and once our office reviews the Water Resource Impact Study.

Response: Acknowledged. The Water Resource Impact Study has been provided under a separate cover.

- 2. §22-502.1.H From providing a lighting plan, which we support. **Response: Acknowledged.**
- 3. §22-705.3.E From the requirement to design private streets to the specifications of a local street related to cartway width. A 20-foot private street is proposed where a 28-foot-cartway is required. We support a waiver conditioned on truck-turning templates being provided for the proposed driveways demonstrating adequate circulation for emergency vehicles onto each lot.

Response: Truck turning templates have been provided and driveways have been revised as needed.

4. §22-705.3.G – From providing a 1 ½-inch mill and overlay of King Road along the subdivision. The plan currently proposes 2 feet of widening along the King Road frontage. Based on a discussion with the Public Works Superintendent, the road was originally a dirt road tar and chipped over the years. Due to the anticipated construction vehicle traffic, we do not recommend a waiver. We do recommend, however, that the developer document the existing road conditions prior to construction.

Response: Acknowledged.



5. §22-705.8.C. – From providing a left-side turnaround configuration for the cul-desac with a minimum right-of-way radius of 60 feet and a minimum paving radius of 50 feet. The plan proposes a 20-foot-wide loop road at the end of the access road, which we support.

Response: Acknowledged.

6. <u>§22-705.8.F.</u> – From providing a 15-foot by 20-foot snow storage easement along the right-of- way of the cul-de-sac bulb, which we support.

Response: Acknowledged.

7. §22-706 – From providing curb and sidewalk along the property frontage of King Road and the proposed private street, which we support.

Response: Acknowledged.

8. <u>§22-707.A</u> – From providing pedestrian walkways or recreational trails at locations deemed necessary by the Board, which we support. Due to existing utilities, topography, and natural resources, it appears that the opposite side of King Road may be the better location for any future trail.

Response: Acknowledged.

9. §22-714.3.A – From providing streetlights at the intersection and turnaround. We recommend this be discussed. If a waiver is approved, we recommend that as a condition of the waiver, the locations of any proposed lampposts be added to the plans.

Response: Acknowledged. Lampposts have been added at the driveways.

10. §22-500.3 – A revised waiver request letter shall be submitted to the Township prior to the Planning Commission meeting if additional waivers are requested based on comments herein.

Response: Acknowledged. A revised waiver request letter has been provided with this submission.

11. Resolution 2007-12 - For any public improvement waivers granted, the Applicant is required to contribute a fee to the Township to cover 50% of the cost of future improvements to bring Township rights-of-way up to current standards. Based on the current waivers requested, this contribution would be required for partial road widening, curb, sidewalk, streetlighting, etc., if granted. If waived, a cost estimate of the required improvements above with credit for the road improvements to be installed shall be submitted for review. We recommend this cost be estimated prior to the Board of Supervisors taking action on the plans.

Response: Acknowledged. A cost estimate will be provided under a separate discussion.

#### C. Subdivision and Land Development Ordinance

We have identified the following issues with the proposed plan regarding the requirements and provisions of the current Subdivision and Land Development Ordinance (SALDO):

 §22-105.1.D – There were discussions with the Planning Commission and Board of Supervisors regarding deed-restrictions on the individual lots to prevent any



future subdivisions. If the lots are to be deed-restricted, a note to this effect shall be added to the Record Site Plan, Sheet 5 of 14, and included in a Deed of Restrictions.

Response: A note has been added to the record plan.

- 2. §22-406.1 The Applicant is responsible for any other required reviews, approvals, permits, etc. (i.e., BCPC, BCCD, PADEP, Fire Marshal, Township Road Opening Permit, Well Construction Permits, etc.) as applicable. **Response: Acknowledged.**
- 3. §22-502.A.(4) The following issues related to the property line and bearings and distances on the Record Site Plan shall be addressed:
  - a. The bearings and distances for the ultimate right-of-way for King Road and distances between the title line, legal right-of-way line and ultimate right-of-way line shall be added to the Record Site Plan.
    Response: Bearings and distances for the Ultimate right-of-way for King Road and distances between the title line, legal right-of-way and the ultimate right-of-way have been added to the Record Site Plan.
  - b. The ultimate right-of-way line from the southern side of Henry Court shall align with the ultimate right-of-way line for King Road. In addition, the road widening for King Road shall not extend within Lot 6.

    Response: The Ultimate Right-of-Way line for Henry Court has been revised accordingly and the widening of King Road does not extend within lot 6.
  - c. All curves along the ultimate right-of-way lines shall be properly labeled. Response: All curves along the ultimate right-of-way have been labeled. A curve table has been provided on the Record Site Plan.
  - d. The distance of the northeastern property line along Lot 1 appears to be listed to the legal right-of-way and shall be revised to list the distance to the ultimate right-of-way line.
     Response: The distance of the property line has been revised accordingly.
- 4. §22-502.B. The following comments related to plan notes and presentation shall be addressed:
  - a. The Cover Sheet note should include the PCSM Plan to be recorded. Response: The cover sheet has been revised accordingly.
  - Once the waivers and design are finalized, a plan view detail and crosssection detail shall clarify the proposed King Road improvements.
     Response: Acknowledged.
  - The storm sewer structures shall be identified with labels.
     Response: Storm structure labels have been added to the plans.



d. Profiles shall be provided for all storm sewer pipes and structures.

Response: Profiles have been completed and added to the plan view.

- e. Legends shall be provided on the E&S Control Plan and PCSWM Plan.

  Response: Legends have been provided on the E&S Control Plan and PCSM Plan.
- f. A plan scale shall be provided for the Henry Court Profile.
  Response: A horizontal and vertical plan scale have been added for all profiles.
- 5. §22-502.B.(11) Legal descriptions are required for the new lots, natural resource conservation easements, ultimate right-of-way easement for King Road, private access easement, defined stormwater easements, proposed utility easements, back up septic system easements and any other easements which may be proposed. All easements shall be labeled with metes and bounds.

Response: Acknowledged. Legal Descriptions will be provided under a separate cover.

6. §22-502.B.(20) – The Record Site Plan shall include notations offering the area between the title line and the ultimate right-of-way line of King Road to New Britain Township.

Response: Note 14 on the Record Site Plan has been added.

- 7. §22-502.D. Existing features within the tract proposed for subdivision and/or land development and within 100 feet of the tract boundary shall be shown on the plans. Response: A waiver has been requested to utilized the provided aerial plan.
- 8. §22-502.D.(1) The Existing Conditions Plan show existing utility poles extending from King Road towards the existing dwelling. The plan shall clarify if these utility poles will be removed or maintained within a private easement.

  Response: The Existing Conditions Plan indicates the existing utility poles to be removed and the existing electric line to be relocated.
- 9. §22-502.J. The following New Britain Township Standard Details shall be added to the plans and are included for reference:
  - a. Typical Roadway Widening Section for Arterial, Collector, and Non-Residential Roads for the widening of King Road, a minor collector street. **Response: The Detail has been added to the plan.**
  - b. Typical Roadway Widening Section for Residential and Local Roads for Henry Court.

Response: The Detail has been added to the plan.

- c. Residential Driveway Paving Section Detail.Response: The Detail has been added to the plan.
- 10. §22-703.4.C Lot lines shall be drawn parallel, concentric, at right angles or radial to the street right-of-way line unless not feasible or undesirable due to existing,



permanent, natural or man- made features. There are several property lines shown with horizontal changes in boundary.

Response: A waiver has been requested.

11. §22-704.1 – Note 4 on Sheet 5 of 14 indicates that Henry Court will be privately owned and maintained. We recommend that the street be recorded as a Private Access Easement and not as an Ultimate Right-of-Way. The wording shall be revised accordingly, and the legal description noted as such.

Response: Note 4 has been revised accordingly.

- 12. §22-705.3.C Where a subdivision and/or land development abuts or contains an existing street, the applicant shall be required to improve the street to the Township standards for ultimate right-of-way and cartway widths. King Road is considered a minor collector road which requires a 60-foot ultimate right-of-way and 36-foot cartway. We recommend a waiver to allow partial widening along King Road of 2 ft of widening (10 ft is required) with the following conditions:
  - a. The ultimate right-of-way width shall be proposed 30 feet from the King Road centerline.

Response: The Ultimate Right-of-Way has been revised accordingly.

- b. All dead trees, live trees and branches interfering with the existing overhead lines shall be removed within the proposed ultimate right-of-way. Response: A note has been added to the record plan.
- c. Relocate two or more utility poles, as needed, to accommodate the Henry Court entrance.

Response: The existing features plan indicates the two utility poles to accommodate the proposed Henry Court entrance.

- d. The proposed replacement pipe at the entrance shall be increased to 15 inch diameter in accordance with §22-712.5.E & 12.B.
  - Response: The proposed replacement pipe has been revised to be a 15" diameter pipe.
- e. Streambanks shall be stabilized where erosion is observed. Associated permits shall be obtained from PADEP.

Response: Acknowledged.

13. §22-705.4.F – The minimum right-of-way radius at an intersection shall equal the [pavement] radius plus 10 feet. The ultimate right-of-way radius shall be noted at the intersection of Henry Court with King Road.

Response: The Ultimate Right-of-Way radii have been revised accordingly.

14. §22-705.5.B & 6. – The clear sight triangle shall be revised to a 75-foot triangle centered on Henry Court. Minimum sight distances for stopping, passing and intersections per PennDOT standards shall also be shown on the plan.

Response: The clear sight triangle has been revised to a 75-foot triangle.

15. §22-705.7. – Roadway stationing and radii shall be noted on the Record Site Plan.



### Response: Roadway stationing has been and Radii have been added to the Record Site Plan.

16. §22-705.12. – All proposed street names shall be recommended by staff and reviewed by the Township Fire Marshal's office for duplication. The street name, Henry Court, shall be subject to approval by the Board of Supervisors.

Response: Acknowledged.

- 17. §22-705.12.G We offer the following comments relative to signage:
  - a. The location of all traffic signage shall be shown on the Record Site Plan and signage details provided as necessary.

Response: The proposed signs have been added to the record plan.

 All roadway signs, regulatory (warning and street name signs) shall be of high intensity prismatic material meeting minimum ASTM Type III retroreflective standards.

Response: Note 19 has been added to the record plan.

c. "No Parking" signs shall be provided along the private street to ensure adequate access is provided for emergency vehicles, delivery trucks, busses, and trash trucks.

Response: The proposed shared access road does not have adequate shoulder width to allow parking along the private street and the existing trees in the vicinity of the private street are to remain to deter cars from parking along the private street. The addition of signs would be duplicative.

18. <u>§22-705.13.C.</u> – A note shall be added to the grading plan stating that "All access drives and driveways shall be provided with a stopping area of 20 feet, at a maximum grade of 3%, measured from the ultimate right-of-way". Spot elevations shall be provided at each proposed driveway and the required 10-ft driveway radii provided.

Response: Note 14 has been added to the grading plan. The driveways have been revised to show the required 10-ft driveway radii and spot elevations have been added to the Grading Plan.

19. §22-710 – We defer to the Township Fire Marshal for review of the plans with respect to water supply, emergency access, etc. The plans shall comply with the December 6, 2022 review letter from the Fire Marshall.

Response: Acknowledged.

- 20. §22-711.3 The following issues related to erosion control shall be addressed:
  - a. The sequence of construction has the rain gardens being constructed first and later specifies the stormwater facilities to be converted once the upslope area has been stabilized. If the rain gardens are to be used as sediment basins during construction, it shall be clarified on the plan and the appropriate notes and details provided.



Response: The construction sequence has been revised to remove the verbiage for converting the stormwater facilities.

b. The sequence of construction shall be revised to specify the construction of Henry Court and note that no occupancy permits may be issued until the street has binder course.

Response: The sequence of construction has been revised to indicate no occupancy permits to be issued until Henry Court binder course has been installed.

- c. It shall be clarified if the intent is to provide an individual construction entrance at each lot once Henry Court has been installed.
  - Response: Rock construction entrances have been added at all proposed lots.
- d. The size of the rock construction entrance(s) shall be enlarged to 20-foot minimum width.

Response: The size of the rock construction entrances have been enlarged to 20-foot minimum width.

- e. Bypass pumping notes and details shall be provided.
  - Response: Bypass pumping notes and details have been added to the plans.
- f. Erosion controls shall be provided for the following:
  - 1) For the replacement of the 36" RCP culvert pipe
  - 2) for the installation of the culvert pipe and road widening along King Road
  - 3) for the installation of the storm pipes from Henry Court to Lots 1, 5 and 6
  - 4) For the Type M inlet on Lot 2
  - 5) Erosion control matting on the 3:1 slopes

Response: The erosion controls have been revised accordingly.

- 21. §22-711.3 The following comments related to grading shall be addressed:
  - a. Detailed grading and spot elevations for the connection between Henry Court and King Road shall be provided to demonstrate adequate drainage at the intersection.

Response: Spot elevations have been added to the plan at the intersection to show proposed grading and slopes.

b. The proposed contours appear to direct runoff towards the dwellings on Lots 1, 2 and 6. Spot elevations shall be provided at the corners of the dwellings and the contours revised as necessary to demonstrate drainage away from the dwelling. Grading around buildings constructed of wood shall have a minimum separation of 8 inches between the top of foundation wall and the outside finished grade elevation.

Response: Spot elevations have been added to Lots 1,2 and 6. Top of foundation elevations are shown on the Grading plan.



- c. The existing 440 contour is shown at the headwall for the culvert pipe along King Road with an invert elevation of 440. This will result in the pipe being exposed at this location. The grading should be revised to provide a minimum of 1 foot of cover over the pipe.
  - Response: The invert of the pipe has been revised to be 437.75. which matched existing grade, to provide a minimum of 1 foot of cover.
- d. The proposed 450 and 452 contours on Lot 6 have a slope of 1.5:1 and shall be revised to a maximum slope of 3:1.

Response: The grading on Lot 6 has been revised.

- e. The proposed 434 contour near the intersection of Henry Court and King Road shall be verified and revised to cross the road.
  - Response: The proposed 434 contour has been revised accordingly.
- f. The proposed contour for the rain garden bottom at Lot 3 is listed at 456 and appears that it should be 458. The rain garden elevation should be clarified.

Response: The rain garden elevations have been revised.

- 22. <u>§22-713.2.A & B</u> The following comments pertain to the protection of existing vegetation:
  - a. All developments shall be laid out to minimize tree removal of healthy trees and shrubs. Each individual tree, vegetated area and woodlands designated "TO REMAIN" shall be made part of the Tree Protection Zone. The plan shows four trees to remain in the cul-de- sac area. It shall be clarified if the tree row is also to remain and if the layout can be adjusted to save any larger, healthy trees.
    - Response: The trees located in the cul-de-sac area are to remain. The site has been designed to limit tree disturbance to maximum extent possible.
  - b. The limits of clearing and location of tree protection fence shall be shown on Sheet 13.
    - Response: The limit of disturbance, tree protection fencing and proposed tree line has been added to the plan.
  - c. The notes from sections §22-713.2.B.(4)&(5) shall be added to Sheet 13. **Response: The notes were added to sheet 13.**
- 23. §22-713.4.A The following comments relate to the proposed street trees:
  - a. The proposed street length shall be clarified and revised to include both sides of the proposed circle.
    - Response: The street tree calculations have been revised.
  - b. §22-713.4.B The Plan proposes using the existing vegetation along King Road and a portion of Henry Court to meet the street tree requirements. In



addition, supplemental street trees are proposed informally along Henry Court. A partial waiver would be required to use the existing vegetation to meet the street tree requirement and to allow an informal arrangement of supplemental street trees.

Response: A partial waiver has been requested.

c. A note shall be added to the plan specifying that the proposed street trees along Henry Court be staked in the field and reviewed by the Township Engineer prior to installation. The locations shall consider snow storage and utilities.

Response: Note 3 on sheet 14 has been added to the plan.

24. §22-715.2.C.(1) – Park and recreation land is required at a ratio of 2,500 square feet per new dwelling unit or 12,500 square feet. The land shall be dedicated to the Township or other entity as may be approved by the Board. A fee-in-lieu of park and recreation at a rate of \$2,500 per dwelling unit or \$12,500.00 for the 5 new dwellings may be provided at the Board's discretion.

Response: Acknowledged.

25. §22-716 – Concrete monuments shall be placed at all outbound existing property corners, at all proposed lot corners, including changes in direction of boundary, along the King Road ultimate right-of-way, along the private access easement, along all existing and proposed easements including conservation easements, defined stormwater or storm sewer easements, etc.

Response: Acknowledged. Proposed Concrete Monument location have been added to the plan.

- 26. §22-719.6. The site plan shall contain a plan notation stating that any proposed well is subject to the provisions of the well construction standards, which includes requirements for well permitting, water quality testing and well production certification. In addition, all notes related to water mains and the North Wales Water Authority on the Grading, Drainage and Utility Plan shall be removed.
  - Response: Utility Note 15 has been added. All references to North Wales Water Authority have been removed.
- 27. §22-719.7.& 8. For all residential subdivisions containing 3 or more lots, including the existing unit, the Applicant shall submit a Water Resource Impact Study to the Township in accordance with these sections. This study and the required information shall be submitted for review.

Response: The Water Resource Impact Study has been provided to the township under a separate cover.

28. §22-719.11. – For subdivisions and/or land developments involving water supply wells, the applicant shall be required to enter into a Well Depletion Agreement including a well monitoring program with the Township as a condition of final plan approval in accordance with sections §22-719.11.A-C.

Response: Acknowledged. The Well Depletion Agreement will be provided under a separate cover.



29. §22-721. – The plan proposes on-lot septic systems for each lot. All notes related to sanitary sewer mains and the Chalfont New Britain Sewer Authority on the Grading, Drainage and Utility Plan shall be removed.

Response: All notes referencing Chalfont New Britain Sewer Authority have been removed.

30. §22-721.3 — Planning module approval is required to be obtained from the Pennsylvania Department of Environmental Protection (DEP). A completed PADEP Sewage Facilities Planning Module shall be submitted with the preliminary plan application. Prior to submission of the Planning Module to the Township for approval, the planning module shall be approved/executed by the applicant, responsible professional soil scientist, Bucks County Department of Health and Bucks County Planning Commission.

Response: Acknowledged.

31. §22-721.6 – If the property being subdivided contains an existing on-site sewage disposal system, the applicant shall submit to the Township documentation indicating that the existing system has been inspected and is functioning properly. The location of the existing septic system on Lot 4 shall be shown on the plan and inspection report submitted to the Township.

Response: The location of the existing septic system has been added to the plan. Documentation indicating the existing system has been inspected and is functioning properly will be provided prior to building permit phase.

- 32. §22-721.7 As required, the primary and backup septic areas are depicted for the proposed homes. We offer the following comments related to on-lot septic systems:
  - a. An easement deed-restricting each sewage backup area from being built upon shall be added to the site plan with metes and bounds.
     Response: Easements for the sewage backup areas have been added to the record site plan.
  - b. The sewage backup areas shall be located a minimum of 25 feet from the primary system and shall not be located directly down slope of the primary system, or within any well isolation area. Sufficient information shall be provided on a plan to verify.

Response: Dimensions for the distance from the primary to secondary septic systems have been added to the plan.

D. <u>Stormwater Management Ordinance Comments</u>

We offer the following comments related to the Township's Stormwater Ordinance:

 §22-712.4 – The Applicant proposes a new rain garden for each of the proposed lots. While the rain gardens aren't identified as detention basins, they are controlling the peak rates for stormwater runoff. We recommend a partial waiver from this section of the Ordinance related to detention basins, conditioned on the following:



a. §27-502.b.5 – Per a previous Zoning comment, each rain garden shall be revised to manage the maximum impervious permitted for the site in accordance with the Township's Stormwater Ordinance.

Response: The rain gardens have been revised to handle the maximum allowable impervious.

b. §22-712.4.A – An emergency spillway shall be provided for each detention basin in order to convey basin inflow in excess of design flows, or in the event the outlet structure becomes blocked and is unable to convey the design flow. Several of the rain gardens are currently near capacity for the 100-year storm and could ultimately overtop the berm. A spillway shall be provided for the rain gardens which are capable of conveying the flow from the 100-year storm without overtopping the berm in the event the outlet structure is not functioning.

Response: Emergency Spillway have been provided as part of the PCSM Report. The Emergency Spillway grading has been added to the plan sheets.

c. §22-712.4.J. – All portions of the detention basin bottom shall be sloped towards the outlet structure at a minimum slope of 2%. Though we understand the desire to promote infiltration, due to the infiltrative capabilities of soils potentially being compromised over time, we recommend the areas be sloped no less than 2% though underdrain is proposed.

Response: The rain gardens have designed to promote the maximum possible area to promote infiltration and evapotranspiration. Underdrains have been provided to promote a managed released design to ensure the rain gardens will dewater in sufficient time.

d. §22-713.5.B.(3) – One deciduous or evergreen tree planted every 20 feet, plus one deciduous or evergreen shrub every 10 feet along the basin perimeter, planted in an informal arrangement. The required plantings shall be provided around the rain gardens.

Response: Rain Gardens plantings have been added to the Landscaping Plan.

e. §22-712.13.A.(2) – An easement and stabilized access are required to each detention basin for maintenance and operation. Each facility shall be individually reviewed to confirm sufficient access is provided from King Road to each facility for maintenance, as well as a blanket or defined easement on each new dwelling lot.

Response: A note has been added to the Record Site Plan.

2. §22-712.5.A – All storm sewer systems shall provide the required capacity for the 100-year design storm based on the Rational Method. Pipe capacity calculations shall be provided for the proposed storm sewer pipes from Henry Court to the rain gardens, for the 36" culvert pipe crossing Henry Court and for the culvert pipe along King Road.

Response: Calculations have been provided for the storm pipes.



 §22-712.6.A. – All inlets to be utilized in a storm sewer system shall conform to the design standards of the most current PennDOT Publications 408 and 72. The inlet details reference PennDOT Pub 72M, RC-34. This should be revised to specify RC-46M.

Response: The inlet detail has been revised accordingly.

4. §22-712.6.C. – Inlet spacing in paved areas shall be arranged so that a minimum of 80% of the gutter flow tributary to the inlet will be captured. Inlet capacity reports shall be provided for the inlets along Henry Court. Based on the proposed grades and grate elevations, it appears these inlets may need to be sumped.

Response: The inlet elevations have been sumped to ensure the gutter flow will be captured.

5. §22-712.7.A. – A manhole detail refencing PennDOT Pub 72M, RC-39M shall be provided.

Response: A manhole detail has been added to the plans.

6. §22-712.8.A. – The Concrete End Wall detail shall reference PennDOT Pub 72M, RC-31M.

Response: The Concrete End Wall Detail has been revised.

 §22-712.8.D. – Rock apron or other approved velocity dissipation devices shall be placed at all headwalls and endwalls to reduce flow velocity and prevent erosion. Riprap aprons shall be provided at the endwall along King Road and the endwall for the 36" RCP crossing Henry Court. Associated sizing calculations shall be provided as well.

Response: Rip-Rap Aprons have been added to the plans.

- 8. §22-712.12.A. All proposed driveways, where curbs and storm sewer are not required by the Board, shall have a culvert with flared end sections or endwalls. Detailed grading for the driveways shall be provided to determine if 24-ft long 15" RCP driveway culverts or concrete trench boxes with grates are necessary. Response: Detailed grading has been provided.
- 9. §22-712.13.A & B The following comments relate to drainage easement, ownership and maintenance responsibilities of stormwater facilities:
  - a. Per the Site Plan Note 5 on Record Site Plan, Sheet 5, the stormwater management facilities are noted to be a perpetual part of the stormwater management system of the Township. This shall be revised to state "of the homeowners or Homeowners Association" and to include the road culverts. **Response: Note 5 has been revised accordingly.**
  - b. Per the Site Plan Note 5 on Record Site Plan, Sheet 5, access is provided to the properties for stormwater inspections by the Township and its agents. It shall be clarified whether a blanket easement or defined easements are proposed. Defined easements shall be a minimum of 20 feet in width.

Response: Note 17 has been added to the record plan, a blanket easement is proposed.



10. §26-123 — The managed release concept developed by PADEP is proposed to meet the volume control and water quality requirements which is permitted for situations where infiltration is infeasible and is subject to PADEP approval. Hydrograph calculations shall be provided demonstrating that the stormwater release rate for the 1.2-inch/2-hour storm does not exceed 0.01 cfs from the equivalent impervious area. Note that a composite Curve Number is not adequate for the modeling of the 1.2 inch/2-hour storm due to the large error associated with averaging of initial abstractions for storms less than or equal to the 2-year/24-hour storm event.

Response: The 1.2-inch/2-hour storm event (shown as the 3 year storm in the Hydraflow Routing) has been revised.

11. §26-123.2.C.(5)(b) – A minimum infiltration rate of 1/4 inches/hour shall be utilized and a safety factor of 50% applied for design purposes. The plan proposes MRC rain gardens for Lots 1, 2, 3, 5 and 6, however, the Stormwater Infiltration Testing report by VW Consultants, LLC provided acceptable infiltration rates on Lots 1, 2, 3 and 5. Calculations shall be provided to demonstrate the volume control requirement can be met through infiltration.

Response: The stormwater NPDES worksheets shows the calculated infiltration volume credit. The hydraflow analysis also shows the infiltration rate in the calculations.

12. §26-124.1.C – When calculating the allowable peak runoff rates, developers do not have to account for runoff draining into the subject development site from an off-site area. However, on-site drainage facilities shall be designed to safely convey off-site flows through the development site. The drainage areas to the rain gardens shown on the Post Development Drainage Area Map only include the disturbed areas of the site. The drainage areas shall be revised to include the undisturbed areas onsite and offsite which ultimately drain to the rain gardens to demonstrate they can safely handle the flows from these areas.

Response: The stormwater calculations have been revised to accommodate any runoff getting to the rain gardens outside of the Limit of disturbance.

13. <u>§26-125.3</u> – The time of concentration flow paths shall be shown on the drainage area plans to verify the times used in the report.

Response: The time of concentration flow paths have been added to the drainage area plans.

- 14. §26-132 The following discrepancies with the stormwater management design and plans shall be addressed:
  - a. The MRC Stormwater Facility Underdrain Detail appears to indicate that the underdrain invert should be 36 inches below the bottom of the rain garden. This is not consistent with the rain garden contours which appear to indicate the invert is 2 feet below the surface. The detail and grading should be revised as necessary to clarify the underdrain elevation.

Response: The MRC Stormwater Facility Underdrain Detail has been revised.



- b. The MRC Stormwater Facility Underdrain Detail appears to indicate 6 inches of topsoil beneath the 24" BMP soil mix. The Rain Garden MRC BMP Soil Detail shows 6 inches of topsoil over the soil mix and is included in the 24-inch depth. The depth of soil mix and layering should be clarified. Response: The details have been revised to be consistent.
- c. The elevation table on the Rain Garden Outlet Structure Detail lists the outlet pipe invert at the same elevation as the underdrain pipe invert. This is not consistent with the plans and stormwater report which list the outlet structure discharge pipe invert one foot lower than the underdrain pipe discharge. The invert elevations should be clarified.

Response: The Rain Garden Outlet Structure Detail has been revised.

- d. The level spreader on Lot 6 has a grate elevation of 443.00 which is 3 feet higher than the invert from the outlet structure and will result in a tailwater effect for this rain garden. The elevations and report shall be clarified. Response: The Lot 6 Rain Garden has been revised since the previous submission.
- e. It appears that an existing 18" RCP crossing King Road will connect to the proposed manhole along the eastern side of Lot 1. This pipe has an existing invert of 425.83, which is lower than the manhole invert out of 428.51. The design of this storm pipe connection shall be revised.

Response: The storm pipe inverts have been revised accordingly.

f. A more defined swale shall be provided around the southern side of the dwelling on Lot 1 to direct runoff towards the rain garden in accordance with the drainage area shown on the post Development Drainage Area Map.

Response: The grading has been revised to create a more defined swale

g. Based on the inverts and pipe length for the culvert pipe along King Road, the pipe slope shall be clarified.

Response: The pipe slopes have been revised accordingly.

h. The pipe slope of 1.74% listed for the Type M Inlet from Henry Court to Lot 2 is not consistent with the structure inverts and should be revised.

Response: The pipe slopes have been revised accordingly.

15. §26-164.1 – The Applicant shall sign an Operation and Maintenance (O&M) agreement with the municipality covering all stormwater and storm sewer facilities and BMPs that are to be privately owned.

Response: Acknowledged. The stormwater Operation and Maintenance (O&M) agreement will be provided under a separate cover.

16. The Stormwater BMP Maintenance Fee applies to all proposed stormwater BMPs installed in the Township to provide a financial guarantee for the timely installation, proper construction and continued maintenance by the owner. The fee will be calculated once the engineer's estimate of probable cost is submitted and is based



on 5% of the construction cost not to exceed \$10,000.00. (Township Resolution 2019-03)

Response: Acknowledged.

17. §22-712.13.D & 2022 Fee Resolution – The storm sewer fee for the development will be \$2.50 per linear foot of existing and proposed roads. Based on 948 feet of frontage on King Road and 743 feet along Henry Court, a fee of \$4,227.50 would be required.

Response: Acknowledged.

### E. General Comments

 The bridges in the area may not support anticipated construction vehicle traffic on King Road near Swamp Road or on Keller Road. Chapman Road should not be accessed by heavy trucks due to the existing road width and condition. As a side note there have also been discussions regarding construction at the County bridge on King Road near Swamp Road.

Response: Acknowledged. This will be discussed and resolved prior to construction.

2. It shall be clarified if the agricultural fields are proposed to be stabilized with lawn or other vegetative cover.

Response: Note 18 has been added to the record plan.

### Review Letter from New Britain Township Fire Marshal dated December 6, 2022.

1. Show that fire trucks can turn into the driveways from both the lane and cul-desac. Needs a turning radius of 10-foot radius on driveways.

Response: Truck turning templates have been provided and driveways have been revised as needed.

If you have any questions or require additional information, please do not hesitate to contact us at 215-586-3330 or rob@hcengineering.net

Very truly yours,

**Holmes Cunningham Engineering** 

Rob Cunningham, P

Partner

Cc:

O:\1734 - 396 King Road\Outbound\Twp Response Letter 2023-01-10.docx





## September 22, 2022 Revised February 8, 2023

Via Email

Matthew West, Township Manager New Britain Township 207 Park Avenue Chalfont, PA 18914

RE: The Estates at Hill Top Waiver Request Letter

TMP#: 26-004-030

New Britain Township, Bucks County, PA

HCE Project No.: 1734

### Dear Matt:

In regard to the above referenced land development project, the applicant requests the following waivers from the Subdivision and Land Development Ordinance.

- 1. SALDO Section 22-403 & 404 The Applicant is requesting a waiver to allow a combined preliminary and final subdivision and land development submission for this project. All information required for final plans is included on the land development plan set.
- 2. SALDO Section 22-502.D. The Applicant is requesting a waiver to utilize the Aerial Plan in lieu of providing detailed survey information within 100 feet of the property line. The existing information immediately adjacent to the tract and within the adjacent roadways have been provided. An aerial photograph has been provided and the applicant agrees to provide additional information as requested to the satisfaction of the township engineer.
- 3. SALDO Section 22-502.1.H The applicant is requesting a waiver from providing a lighting plan, as no new lighting is proposed as part of this project. No pole lighting is proposed for this small-scale residential project with 5 new building lots.
- 4. SALDO Section 22-703.4.C The applicant is requesting a waiver from requiring lot lines to be drawn parallel, concentric, at right angles or radial to the street right-of-way. The proposed lot lines have been design to meet these requirements to the best of our ability due to the site constraints.
- 5. SALDO Section 22-705.3.E The applicant is requesting a waiver from providing a proposed private street that meets design specifications of a local street. The intent of this development is to provide the aesthetic of a rural neighborhood, which only contains 5 new building lots. The proposed road will be private and maintain by the homeowner's association. The proposed cartway width provides adequate access to the homes and

Phone: 215-586-3330 · 409 E. Butler Ave Unit 5 · Doylestown, PA 18901 · www.hcengineering.net

for emergency vehicles. The required right-of-way width is proposed for the ability to widen the road in the future.

- 6. SALDO Section 22-705.3.G The applicant is requesting a waiver from providing mill and overlay of the entire width of the roadway a depth of 1 ½ inches. There are minimal improvements within the existing cartway, which include water and sewer connections on the western side of the Schoolhouse cartway. Additionally, no widening is proposed as part of this project and the existing cartway appears to be in good condition.
- 7. SALDO Section 22-705.8.C The applicant is requesting a waiver from providing culde-sac streets with a left-side turnaround configuration at the closed end and minimum paving radius of 50 feet. The intent of this development is to provide the aesthetic of a rural neighborhood, which only contains 5 new building lots. A loop road has been provided to the ability for the residents to turn around. The loop road also provide adequate circulation for emergency vehicles.
- 8. SALDO Section 22-705.8.F The applicant is requesting a waiver from providing a fifteen-foot by twenty-foot snow storage easement along the right-of-way of the cul-desac bulb. The current loop road design provides sufficient room for snow storage. Additionally, the roadway will be privately owned and maintained.
- 9. SALDO Section 22-706 The Applicant is requesting a waiver from providing curb and sidewalk along King Road and the proposed private road. There is no existing curb or sidewalk on any surrounding properties, therefore, the applicant proposes to keep the site consistent with the surrounding neighborhood.
- 10. SALDO Section 22-707.A.— The applicant is requesting a waiver from providing pedestrian walkways or recreational trails on site. The intent of this development is to provide the aesthetic of a rural neighborhood and to match the surrounding neighborhood.
- 11. SALDO Section 22-713.4.B The applicant is requesting a partial waiver to use the existing vegetation to meet the street tree requirement and to allow an informal arrangement of supplemental street trees.
- 12. SALDO Section 22-714.3.A The Applicant is requesting a waiver from providing streetlights at any location where improvements are shown. The intent of this development is to provide the aesthetic of a rural neighborhood, which only contains 5 new building lots. No internal pedestrian walkways are proposed that require illumination.

Very truly yours,

**Holmes Cunningham Engineering** 

Robert Cunningham, P.E.

Partner

ECC: Joe Casadonti, Casadonti Custom Homes



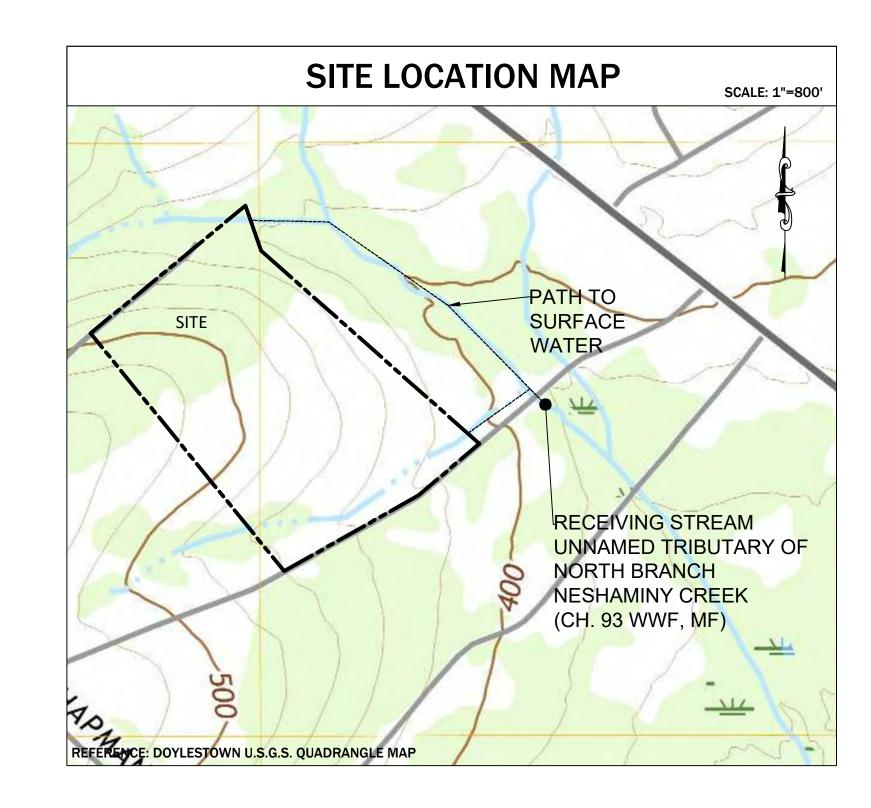
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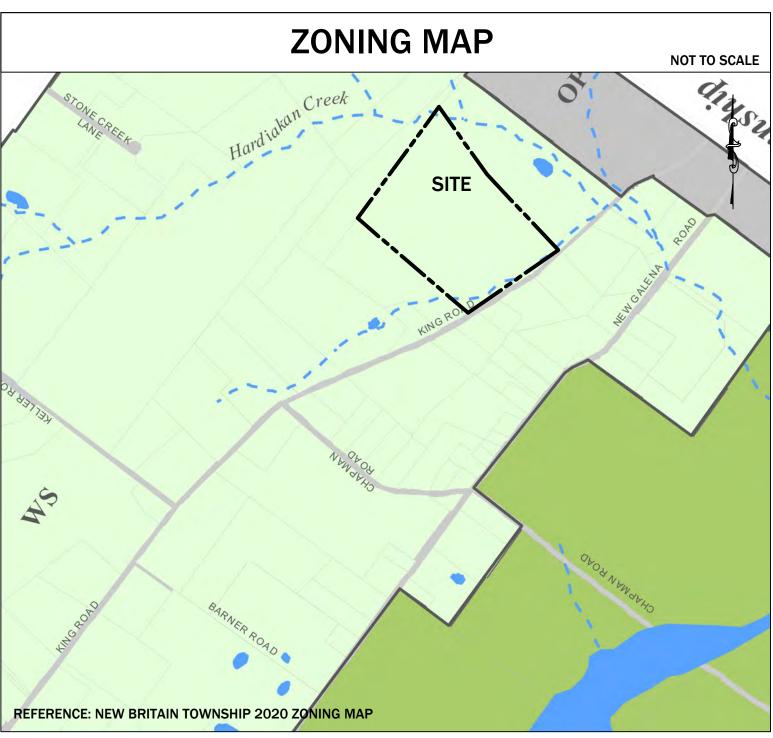


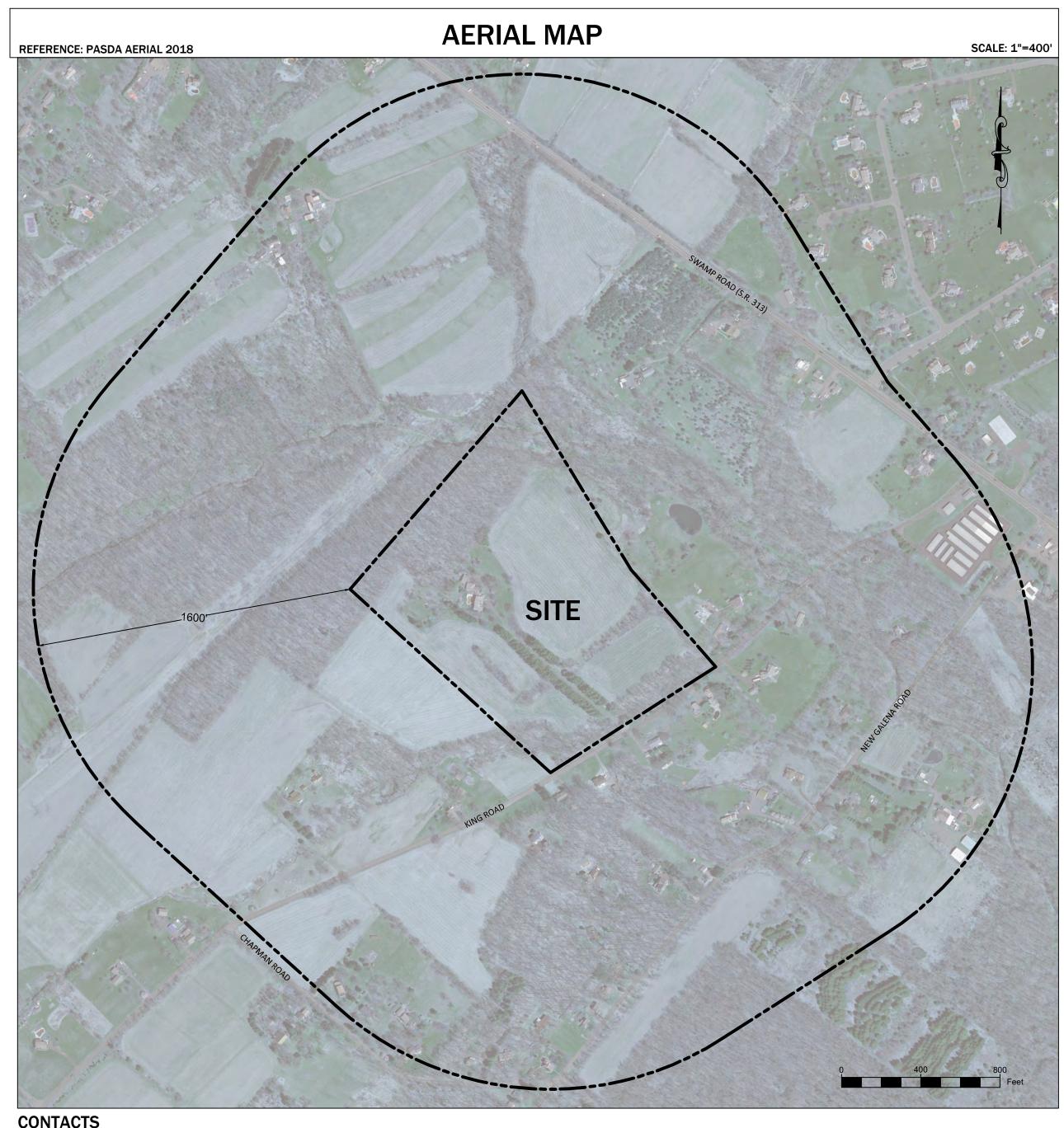
# PRELIMINARY AND FINAL LAND DEVELOPMENT AND MAJOR SUBDIVISION PLANS

# THE ESTATES AT HILL TOP

# TMP # 26-004-030 NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PA







CONTACTS **NEW BRITAIN TOWNSHIP** 207 PARK AVENUE CHALFONT, Pa 18914 PHONE: (215)-822-1391

**TOWNSHIP ENGINEER** GILMORE & ASSOCIATES, Inc 65 EAST BUTLER AVENUE, SUITE 100 NEW BRITAIN, PA 18901 PHONE: 215 345 4330

TOWNSHIP PUBLIC WORKS DEPARTMENT 207 PARK AVENUE CHALFONT, PA 18914 PHONE: (215)-822-1391

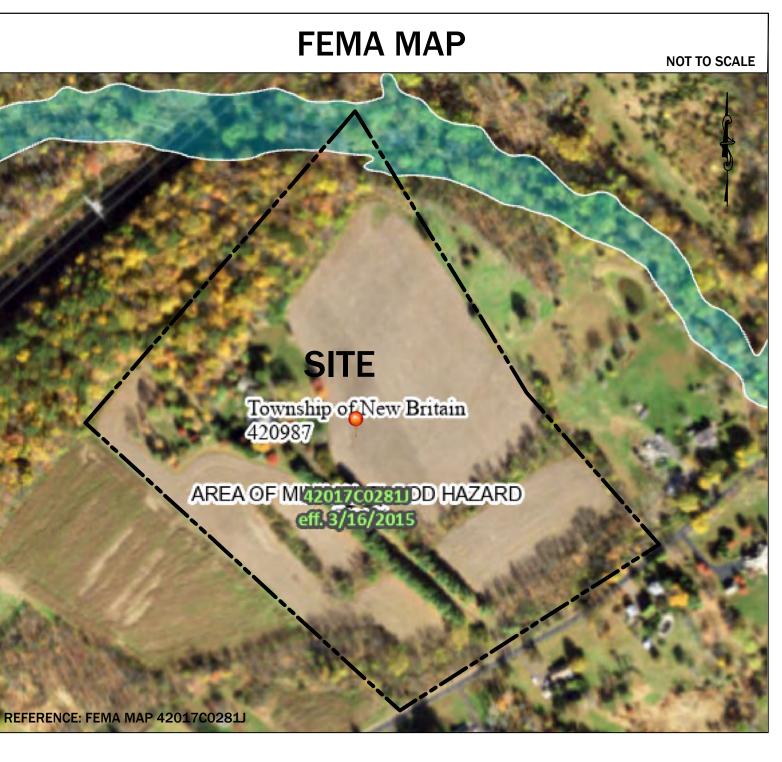
**COUNTY PLANNING COMMISSION BUCKS COUNTY PLANNING COMMISSION** THE ALMSHOUSE NESHAMINY MANOR CENTER 1260 ALMSHOUSE ROAD DOYLESTOWN, PA 18901 PHONE: 215-345-3400

**ELECTRIC AND GAS** PHILDELPHIA ELECTRIC COMPANY **BUCKS/MONT REGION CONTRACTOR AND BUILDER SERVICES 400 PARK AVENUE** WARMINSTER, PA 18974 PHONE: (215) 956-3270 FAX: (215) 956-3240

WARMINSTER SERVICE BUILDING 400 PARK AVE., WARMINSTER, PA 18974 **ELECTRIC PHONE: (215) 956-3270** NEW ELECTRIC PHONE: (215) 956-3010 **ELECTRIC EMERGENCY: (800) 841-4141** GAS PHONE: (800) 454-4100 NEW GAS PHONE: (800) 454-4100 GAS EMERGENCY: (800) 841-4141

GAS EMERGENCY(ALT): (844) 841-4151

**COUNTY CONSERVATION DISTRICT BUCKS COUNTY CONSERVATION** 1456 FERRY ROAD, SUITE 704 DOYLESTOWN, PA 18901 PHONE: 215-345-7577



	DRAWING LIST							
SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE	LAST REVISED DATE					
1	C0.0	COVER SHEET	2/8/2023					
2	C0.1	EXISTING CONDITIONS PLAN	2/8/2023					
3	C0.2	AERIAL MAP	2/8/2023					
4	C0.3	EXISTING RESOURCE AND SITE ANALYSIS PLAN	2/8/2023					
5*	C1.0	RECORD SITE PLAN	2/8/2023					
6	C2.0	GRADING, DRAINAGE AND UTILITY PLAN	2/8/2023					
7	C2.1	CONSTRUCTION DETAILS	2/8/2023					
8	C3.0	EROSION AND SEDIMENT CONTROL PLAN	2/8/2023					
9	C3.1	EROSION AND SEDIMENT CONTROL DETAILS	2/8/2023					
10	C3.2	EROSION AND SEDIMENT CONTROL DETAILS	2/8/2023					
11*	C4.0	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN	2/8/2023					
12	C4.1	POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS	2/8/2023					
13	C5.0	TRUCK TURN & PROFILE PLAN	2/8/2023					
14	C6.0	LANDSCAPING PLAN	2/8/2023					
15	C6.1	LANDSCAPING DETAILS	2/8/2023					

<sup>\*</sup> DENOTES PLAN TO BE RECORDED

# PREPARED BY:

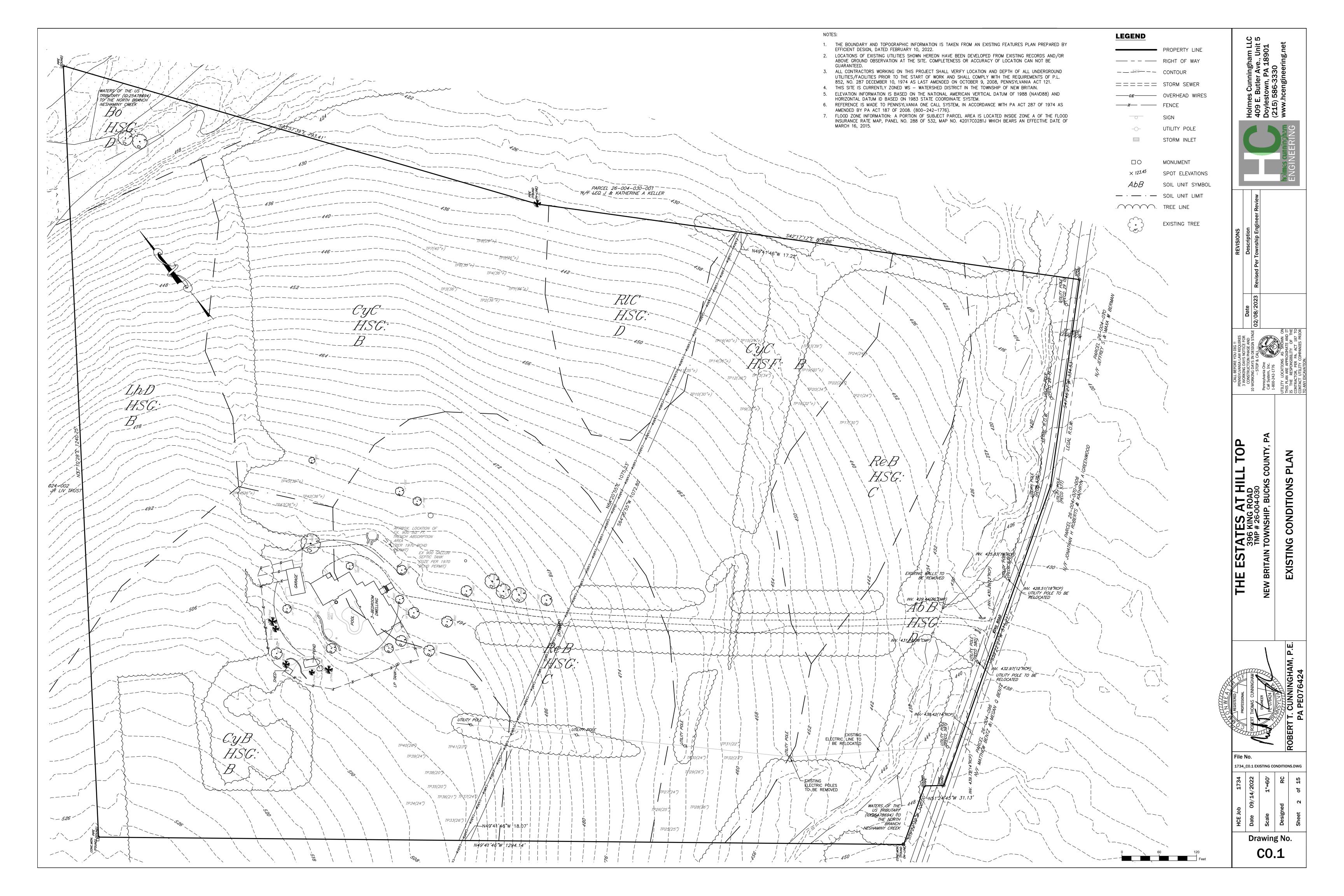


HOLMES CUNNINGHAM LLC **409 EAST BUTLER AVENUE** DOYLESTOWN, PA 18901 (215) 586-3330

# APPLICANT/ EQUITABLE OWNER

**CASADONTI BUILDERS LLC** P.O. BOX 5, CHALFONT, PA 18914

REVISED:	02,	/08/2023	)
DATE:	09,	/14/2022	)
PROJECT :	#	1734	
DRAWING	#	CO.0	
SHEET		1 OF 15	





RESOURCE PROTECTION STANDARDS					
Resource	Min. Required Protection Ratio	Total Area of Land in Resource	Required Resource Protection Land	Actual Resource Protection Land	Actual Protection Ratio
	%	(Ac.)	(Ac.)	(Ac.)	%
Watercourses	100%	1.052	1.052	0.000	N/A
Floodplains	100%	0.569	0.569	0.569	100%
Floodpain (Alluvial) Soils	100%	0.933	0.933	0.933	100%
Wetlands	100%	0.000	0.000	0.000	N/A
Wetlands Margin	80%	0.000	0.000	0.000	N/A
Riparian Buffer	100%	3.154	3.154	3.154	100%
Lakes and Ponds	100%	0.000	0.000	0.000	N/A
Woodlands (CR, WS, SR-1, SR-2, and RR Zoning Districts)	80%	11.729	9.383	11.099	95%
Agricultral Soils	50%	31.614	15.807	20.794	66%
Steep Slopes 8%-15%	60%	18.272	10.963	13.419	73%
Steep Slopes 15%-25%	70%	2.132	1.492	1.996	94%
Steep Slopes 25%+	85%	0.460	0.391	0.443	96%

	Soils Legend				
<u>Type</u>	<u>Name</u>	Depth to Bedrock	<u>Depth to Seasonal</u> <u>High Water Table</u>	<u>HSG</u>	<u>Hydric Soil</u>
AbB	Abbotstown silt loam, 3 to 8 percent slopes	40"-60"	6"-18"	D	No
Во	Bowmansville-Knauers silt loams, 0 to 3 percent slopes	72"-99"	0"-18"	C/D	No
СуВ	Culleoka-Weikert channery silt loams, 3 to 8 percent slopes	20"-40"	>80"	В	No
СуС	Culleoka-Weikert channery silt loams, 8 to 15 percent slopes	20"-40"	>80"	В	No
LhD	Lansdale loam, 8 to 25 percent slopes, extremely stony	42"-72"	>80"	В	No
ReB	Readington silt loam, 3 to 8 percent slopes	40"-60"	18"-36"	С	No
RIC Realville channery silt loam, 8 to 15 percent slopes 20"-40" 6"-36" D No					
Limitations and Resolutions: The soils found within the project limits have varying limitations including possible shallow depth to groundwater and possible shallow depth to bedrock. In order to resolve the groundwater limitation, any standing water should be pumped through a sediment filter bag. To resolve the bedrock limitation, the contractor shall determine whether rock is rippable. If rock is not rippable, blasting will be required. All blasting shall meet all local, county, state and federal regulations.					

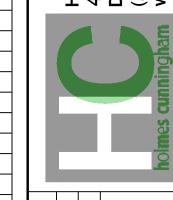
- 1. THE BOUNDARY AND TOPOGRAPHIC INFORMATION IS TAKEN FROM BOUNDARY & TOPOGRAPHIC PLAN PREPARED BY EFFICIENT DESIGN, DATED FEBRUARY 10, 2022.
- 2. AERIAL PHOTOGRAPHY TAKEN FROM PASDA AERIAL PHOTOGRAPHS 2018.
- 3. THE PROPOSED DEVELOPMENT IS TO BE SERVED BY ON-LOT WELL AND SEPTIC SYSTEMS. THE PROPERTY IS PARTIALLY WITHIN ZONE A FLOOD HAZARD AS PER FEMA PANEL 42017C0281J REVISED MARCH 16, 2015.

5.	TOPOGRAPHICAL	INFORMATION	IS BASED	UPON	VERTICAL	DATUM	NAVD	88	AND	HORIZONTAL	DATUM
	PA83-S.										

	Site Cap	acity Calculations	<u>i</u>		
				Area (SF)	Area (AC)
	Gross Site Area Determined by Actual On-site Survey			1,495,537	34.333
	Existing Streets Ultimate Rights-of-Way			22,837	0.524
	Existing Utility Rights-of-Way or Easements			17,721	0.407
	Existing Preservation Easements			0	0.000
	Land Not Contiguous		0	0.000	
	Land Shown on Previous Subdivision Reserved for Open Space, Pro	0	0.000		
	Land in a Different Zoning District from Primary Use	0	0.000		
	Base Site Area	1,454,979	33.402		
	Resource Protection Land				
_	Natural Resource	Protection Ratio	Acres of Land in Resources	Resource Protection Land (AC)	Proposed Resource Protection Land (AC)
	Watercourses	1.00	1.05	1.05	1.05
-	Riparian Buffer	1.00	1.53	1.53	1.53
	Floodplain	1.00	0.57	0.57	0.57
	Floodplain (Alluvial) Soils	1.00	0.03	0.03	0.03
_	Wotlanda	1.00	0.00	0.00	0.00

<u>Natural Resource</u>	Protection Ratio	Acres of Land in Resources	Resource Protection Land (AC)	Proposed Resource Protection Land (AC)
Watercourses	1.00	1.05	1.05	1.05
Riparian Buffer	1.00	1.53	1.53	1.53
Floodplain	1.00	0.57	0.57	0.57
Floodplain (Alluvial) Soils	1.00	0.03	0.03	0.03
Wetlands	1.00	0.00	0.00	0.00
Lakes and Ponds	1.00	0.00	0.00	0.00
Steep Slopes 25%+	0.85	0.42	0.36	0.44
Woodlands	0.80	8.15	6.52	6.52
Steep Slopes 15-25%	0.70	0.30	0.21	2.00
Steep Slopes 8-15%	0.60	12.18	7.31	13.42
Total Land with Resource Restrictions	•		24.:	24
Total Land with 1.00 Protection Ratio Restrictions			3.1	8
Total Resource Protection Land Required			17.58	
Total Resource Protection Land Provided		19.	54	
Total Disturbed Resources			4.70	
Op	en Space Calculations			
Base Site Area			33.40	Ac.
Multiply by Minimum Open Space Ratio			0.00	
Standard Minimum Open Space			0.00	Ac.
Required Open Space (Greater of 100% Protection Land or Min	n Open Space)		3.18	Ac.
Net Buil	dable Site Area Calcula	ations		
Base Site Area			33.40	Ac.
Subtract Required Open Space			3.18	Ac.
Net Buildable Site Area			30.22	Ac.
ı	Density Calculations			
Net Buildable Site Area			30.22	Ac.
Multiply by Maximum Density	N/A			
Number of Dwelling Units Permitted	N/A			
Imperv	rious Surface Calculati	ons		
Base Site Area			33.40	Ac.
Multiply by Maximum Impervious Surface Ratio		0.20		
Maximum Permited Site Impervious Surface			6.68	Ac.

LEGEND  PROPERTY LINE  PROPERTY LINE  EXISTING CONTOUR  DISTURBANCE LINE  ULTIMATE RIGHT-OF-WAY  STREAM/ WATERCOURSE  FLOODPLAIN  WOODLANDS  RIPARIAN CORRIDOR BUFFER  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  SOIL TYPE  AGRICULTURAL SOILS		
208 EXISTING CONTOUR  DISTURBANCE LINE  ULTIMATE RIGHT-OF-WAY  STREAM/ WATERCOURSE  FLOODPLAIN  WOODLANDS  RIPARIAN CORRIDOR BUFFER  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  SOIL TYPE		LEGEND
DISTURBANCE LINE ULTIMATE RIGHT-OF-WAY  STREAM/ WATERCOURSE FLOODPLAIN WOODLANDS RIPARIAN CORRIDOR BUFFEI STEEP SLOPES 8%-15% STEEP SLOPES 15%-25% STEEP SLOPES 25%+ SOIL TYPE		PROPERTY LINE
ULTIMATE RIGHT-OF-WAY  STREAM/ WATERCOURSE  FLOODPLAIN  WOODLANDS  RIPARIAN CORRIDOR BUFFEI  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  SOIL TYPE	208	EXISTING CONTOUR
STREAM/ WATERCOURSE  FLOODPLAIN  WOODLANDS  RIPARIAN CORRIDOR BUFFER  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  SOIL TYPE		DISTURBANCE LINE
FLOODPLAIN  WOODLANDS  RIPARIAN CORRIDOR BUFFEI  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  SOIL TYPE		ULTIMATE RIGHT-OF-WAY
WOODLANDS RIPARIAN CORRIDOR BUFFE  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  TrB  SOIL TYPE		STREAM/ WATERCOURSE
RIPARIAN CORRIDOR BUFFE  STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  TrB  SOIL TYPE		FLOODPLAIN
STEEP SLOPES 8%-15%  STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  TrB  SOIL TYPE	~~~~	WOODLANDS
STEEP SLOPES 15%-25%  STEEP SLOPES 25%+  TrB SOIL TYPE		RIPARIAN CORRIDOR BUFFE
STEEP SLOPES 25%+  TrB SOIL TYPE		STEEP SLOPES 8%-15%
TrB SOIL TYPE		STEEP SLOPES 15%-25%
17L)		STEEP SLOPES 25%+
AGRICULTURAL SOILS	TrB	SOIL TYPE
	1.1	AGRICULTURAL SOILS

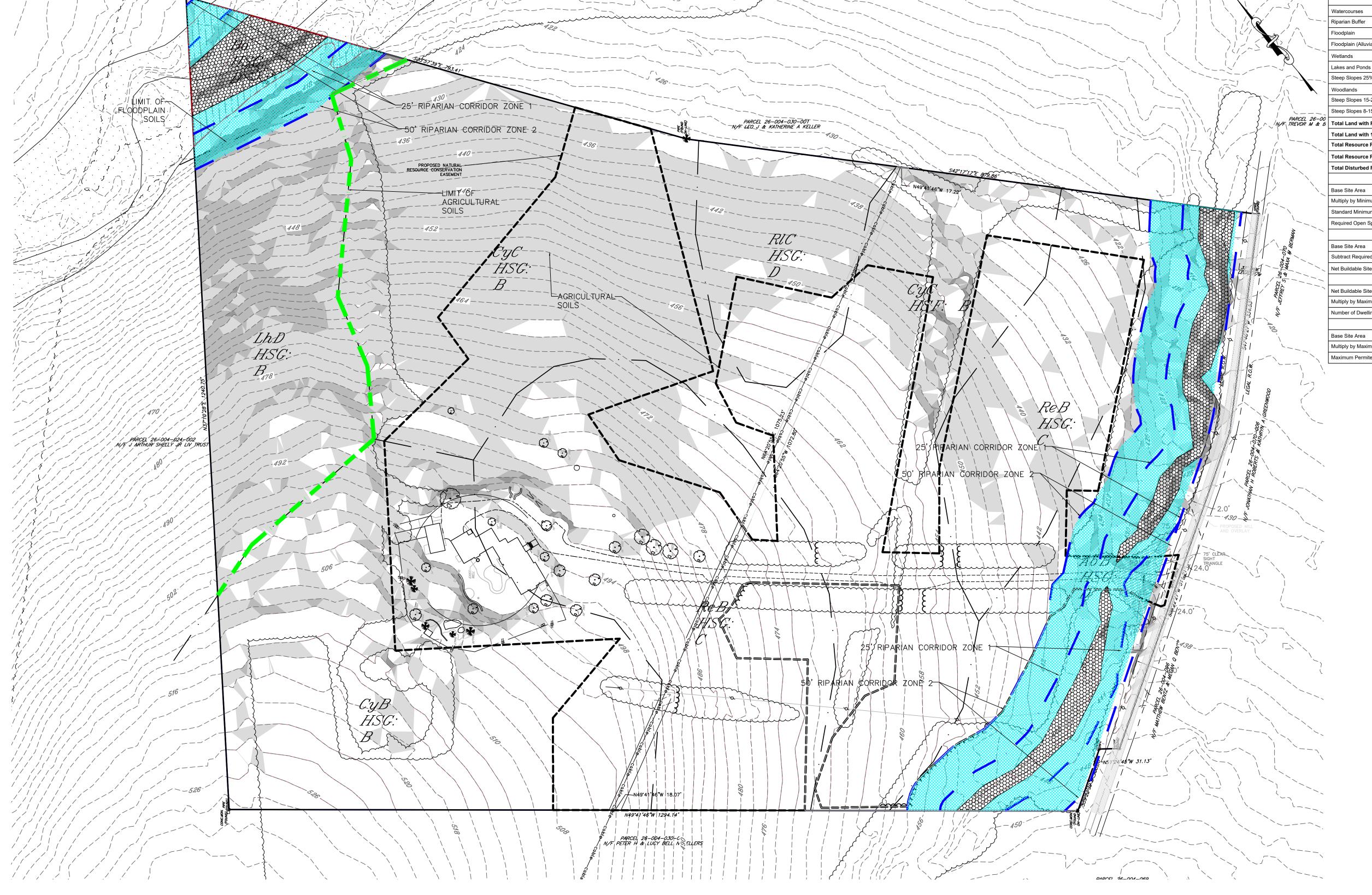


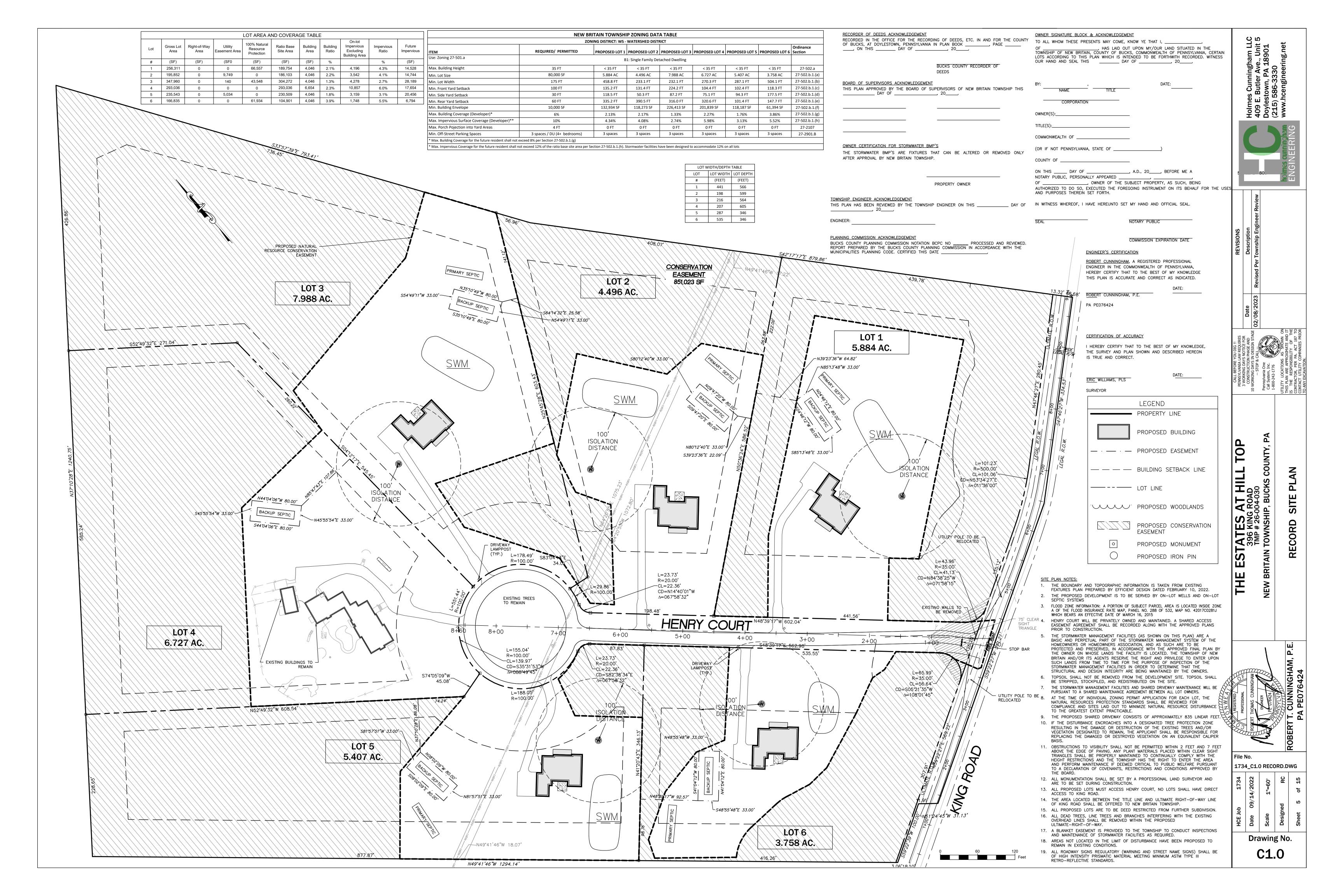
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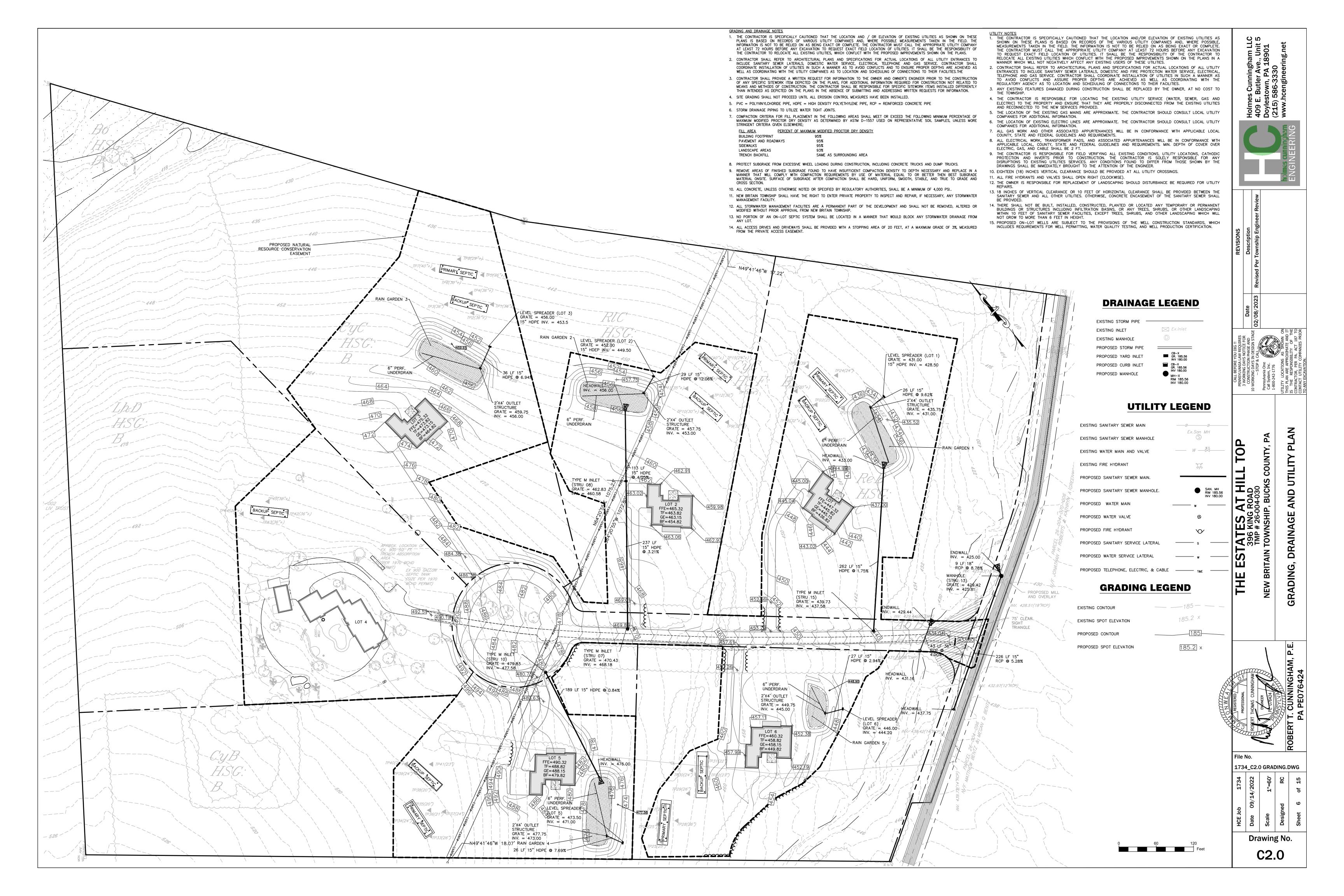
THE ESTATES AT HILL 1
396 KING ROAD
TMP # 26-004-030
NEW BRITAIN TOWNSHIP, BUCKS COUN

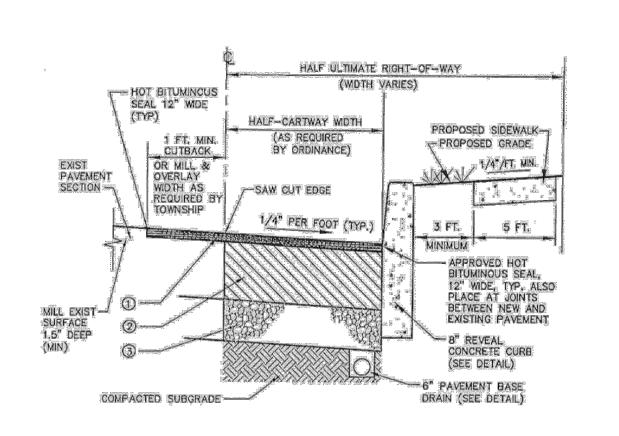
		3		ROBE
File N	No.		·	
1734	1_CO.2	2 ERSA	P.DV	VG
1734	09/14/2022	1"=80'	EC	
	09/1		pa	

Drawing No. CO.3









1.5° SUPERPAVE ASPHALT MIXTURE DESIGN, 9.5 mm MIX, PG 64-22, HMA WEARING COURSE, 3.0 TO 10.0 MILLION ESALS, SRL-M 2 4.5" SUPERPAVE ASPHALT MIXTURE DESIGN, 25 mm MIX, PG 64-22, HMA BASE COURSE, 3.0 TO 10.0 MILLION ESALS

3 6" 3A MODIFIED STONE SUBBASE (MATCH EXISTING IF GREATER)

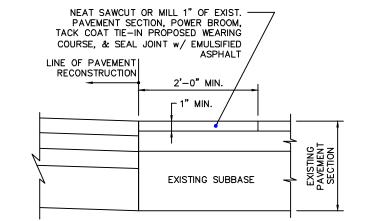
NOTE: NEW ROADS SHALL COMPLY WITH THE ABOVE SPECIFICATION

TYPICAL ROADWAY WIDENING SECTION DETAIL FOR RESIDENTIAL AND LOCAL ROADS

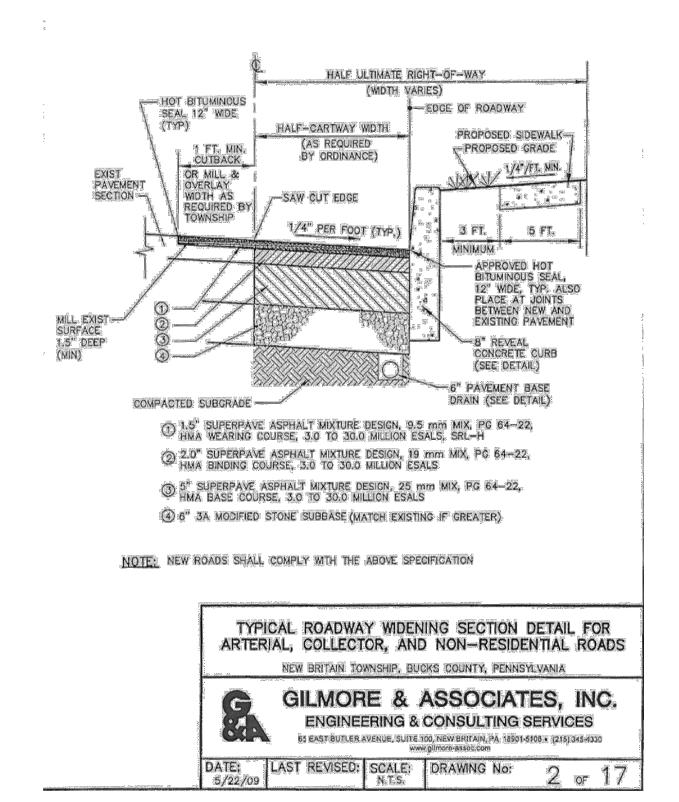
NEW BRITAIN TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

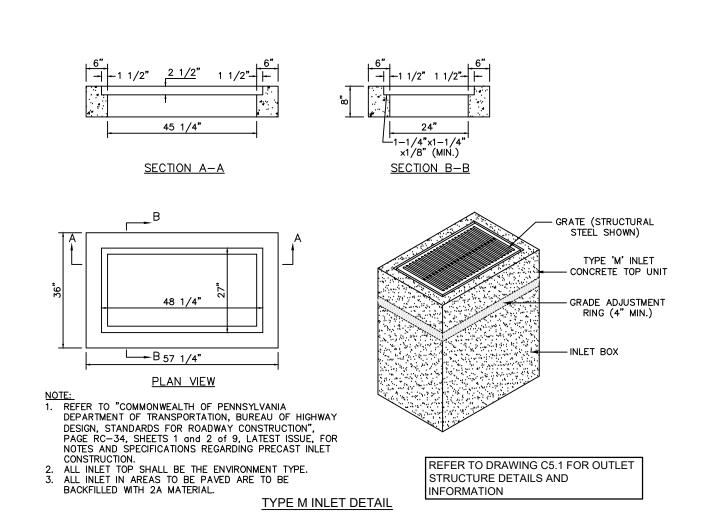
GILMORE & ASSOCIATES, INC. ENGINEERING & CONSULTING SERVICES 55 EAST BUTLER AVENUE, SUITE 100, NEW BRITAIN, PA 18901-5105 . (215) 345-4330

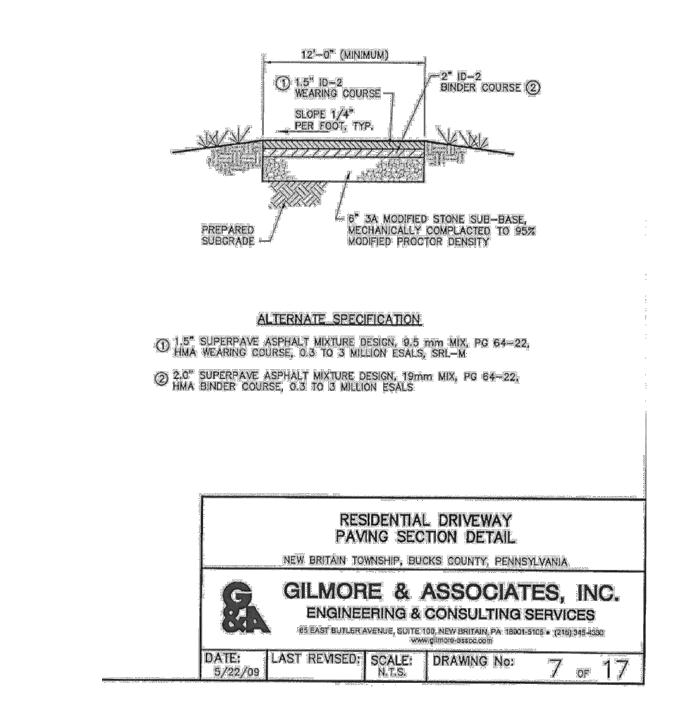
LAST REVISED: SCALE: DRAWING No:

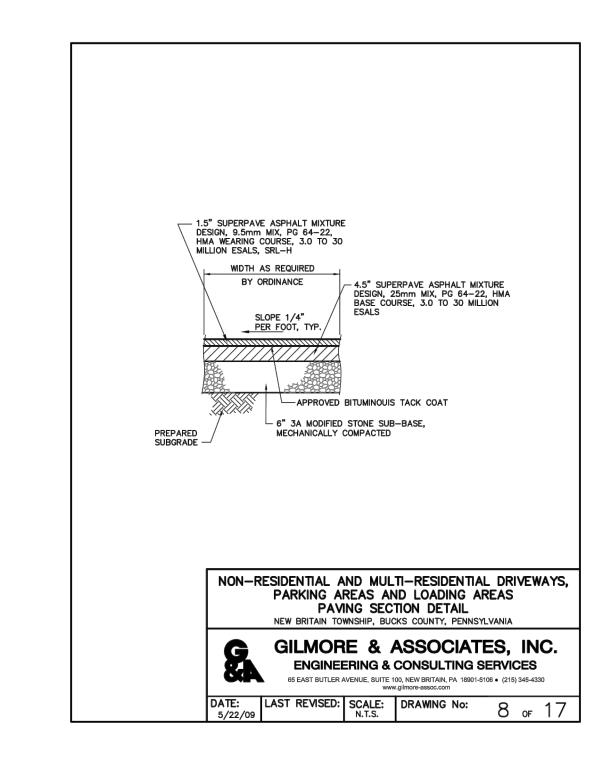


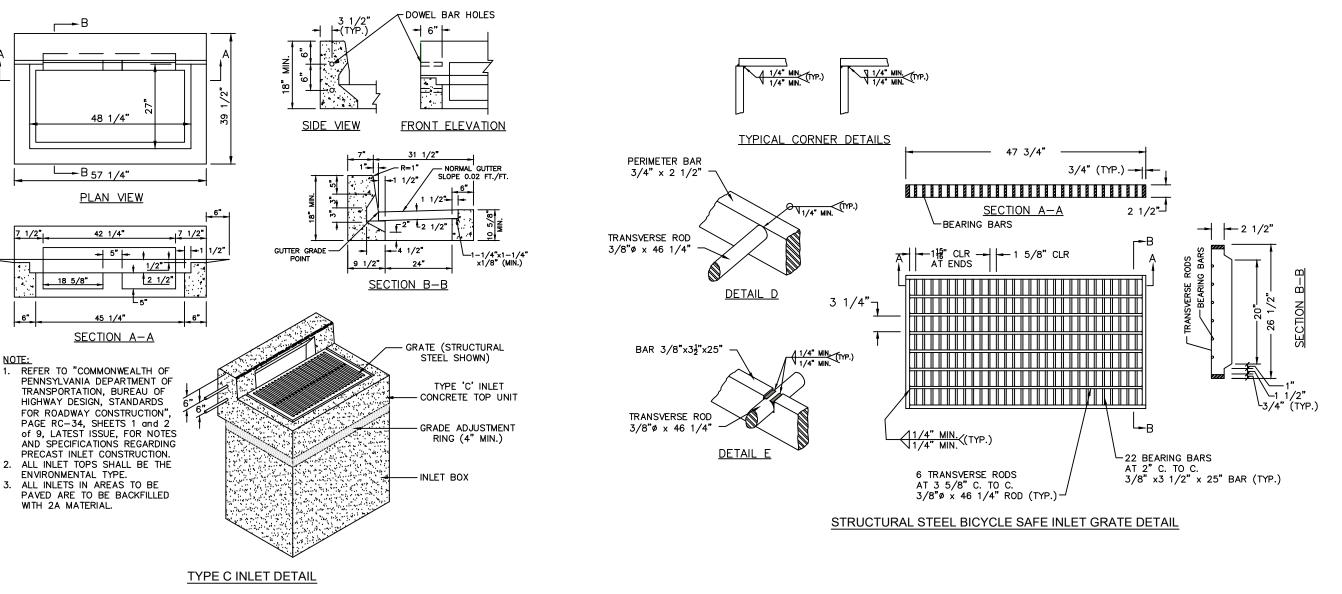
PAVEMENT TIE-IN

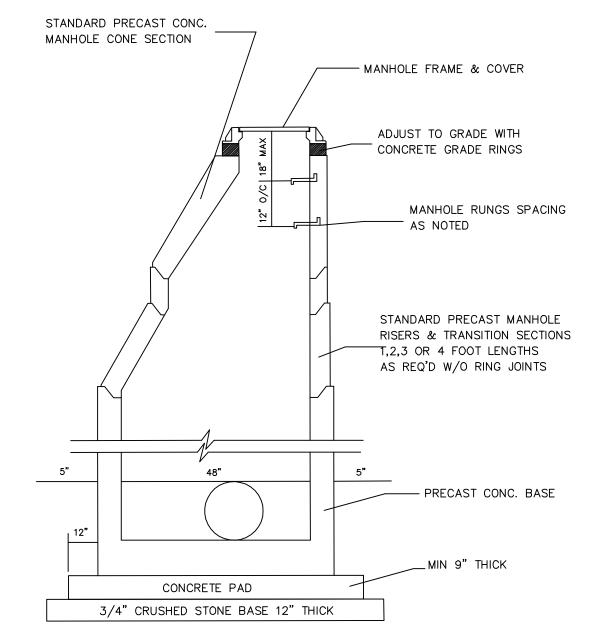












1. PRECAST CONCRETE MANHOLES SHALL BE AS DETAILED IN PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, CURRENT EDITION (PDT PUB #72M) RC-39M, 'STANDARD MANHOLES, PRECAST MANHOLES AND MANHOLE STEPS'. 2. STEPS SHALL BE PROVIDED WHENEVER STRUCTURE EXCEEDS 4 FEET IN DEPTH. 3. STEP DIMENSIONS AND CONFIGURATION SHALL BE IN ACCORDANCE WITH PENNDO<sup>-</sup> STANDARDS FOR ROADWAY CONSTRUCTION, CURRENT EDITION (PDT PUB 172M), RC-39M. 4. STEP AND STEP INSTALLATION SHALL MEET ALL REQUIREMENTS OF ASTM C 478 AND C 497 FOR DIMENSIONS, LOAD RATING AND PULLOUT RESISTANCE. 5. PROVIDE FRAME AND GRATE AS DETAILED IN PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION. CURRENT EDITION (PDT PUB 1172M) RC-39M. 'STANDRARD MANHOLES COVERS, FRAMES AND ADJUSTMENT RISERS' 6. THE CONTRACTOR SHALL PROVIDE CUT SHEETS TO ENGINEER TO REVIEW PRIOR TO CONSTRUCTION. 7. STORM MANHOLE COVERS SHALL HAVE THE

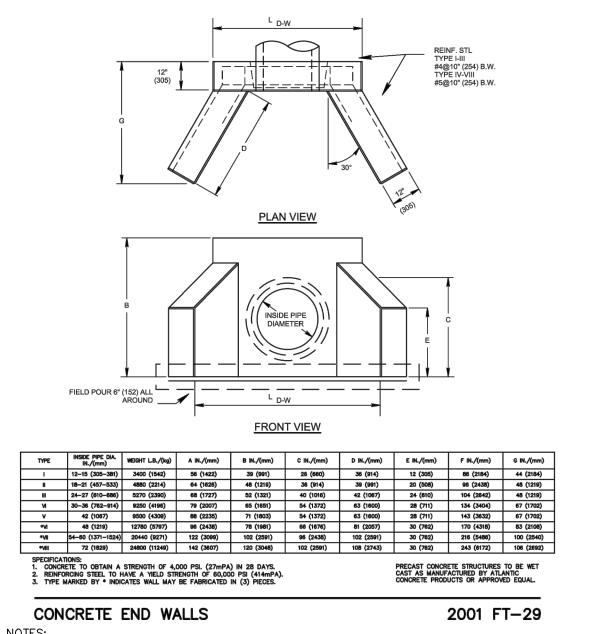
ENVIRONMENT TYPE.

HIGH LETTERS.

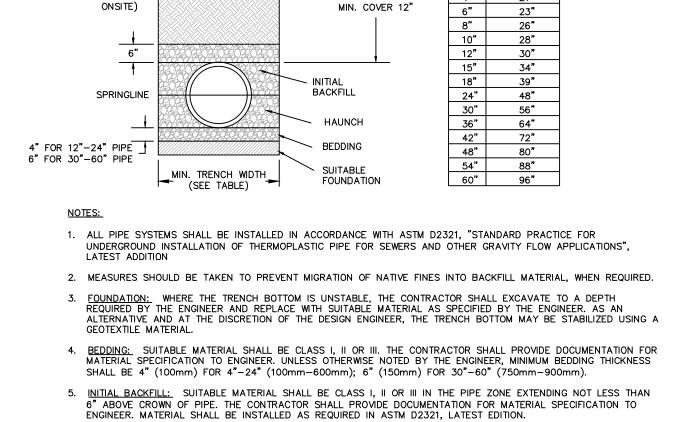
WORD "STORM" ON THE COVER IN 2-INCH

8. STORM MANHOLES SHALLS BE THE





1. REFER TO "COMMON WEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAY DESIGN, STANDARDS FOR ROADWAY CONSTRUCTION" PUBLICATION 72M.



6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR

HDPE PIPE DETAIL

TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT

FINAL BACKFILL

(SELECT NATIVE BACKFILL FROM RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM MIN. TRENCH WIDTH

APPROVED EQUAL 3/8" <u>DIA HOLES</u> 1" O.C. GROUND

PA DOT. SIGN 30" x 30" R1-1 STOP SIGN OR ALL POSTS SHALL BE BREAKAWAY POSTS AND OF ADEQUATE LENGTH TO MEET THE REQUIREMENTS FOR ERECTION AS STATED IN THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". ALL POSTS SHALL BE EMBEDDED 4'-2" MINIMUM BELOW GRADE. GALVANIZING. GALVANIZING SHALL BE IN

ALL STEEL POSTS AND BRACKETS SHALL BE CUT, BENT, AND HOLES PUNCHED AND DRILLED BEFORE CONFORMANCE WITH CURRENT A.S.T.M. SPECIFICATION A123-78 (OR LATEST REVISED).

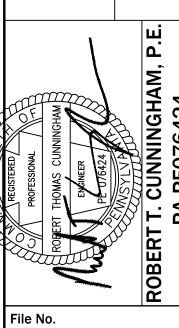
4. POSTS MAY BE STEEL, ALUMINUM, OR TWO-PIECE U-POST.

5. SIGN PANEL SIZES SHALL DETERMINE POST TYPE AND NUMBERS AS SHOWN ON THIS DETAIL AND DIRECTIONAL SIGN SHEET.

6. BOLTS SHALL NOT PROTRUDE MORE THAN 3/4" BEYOND THE NUT WHEN TIGHT BUT SHALL ENGAGE ALL THREADS IN THE NUT.

7. ALL TRAFFIC AND PEDESTRIAN SIGNAGE AND LOCATION SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ALL CURRENT AMENDMENTS.

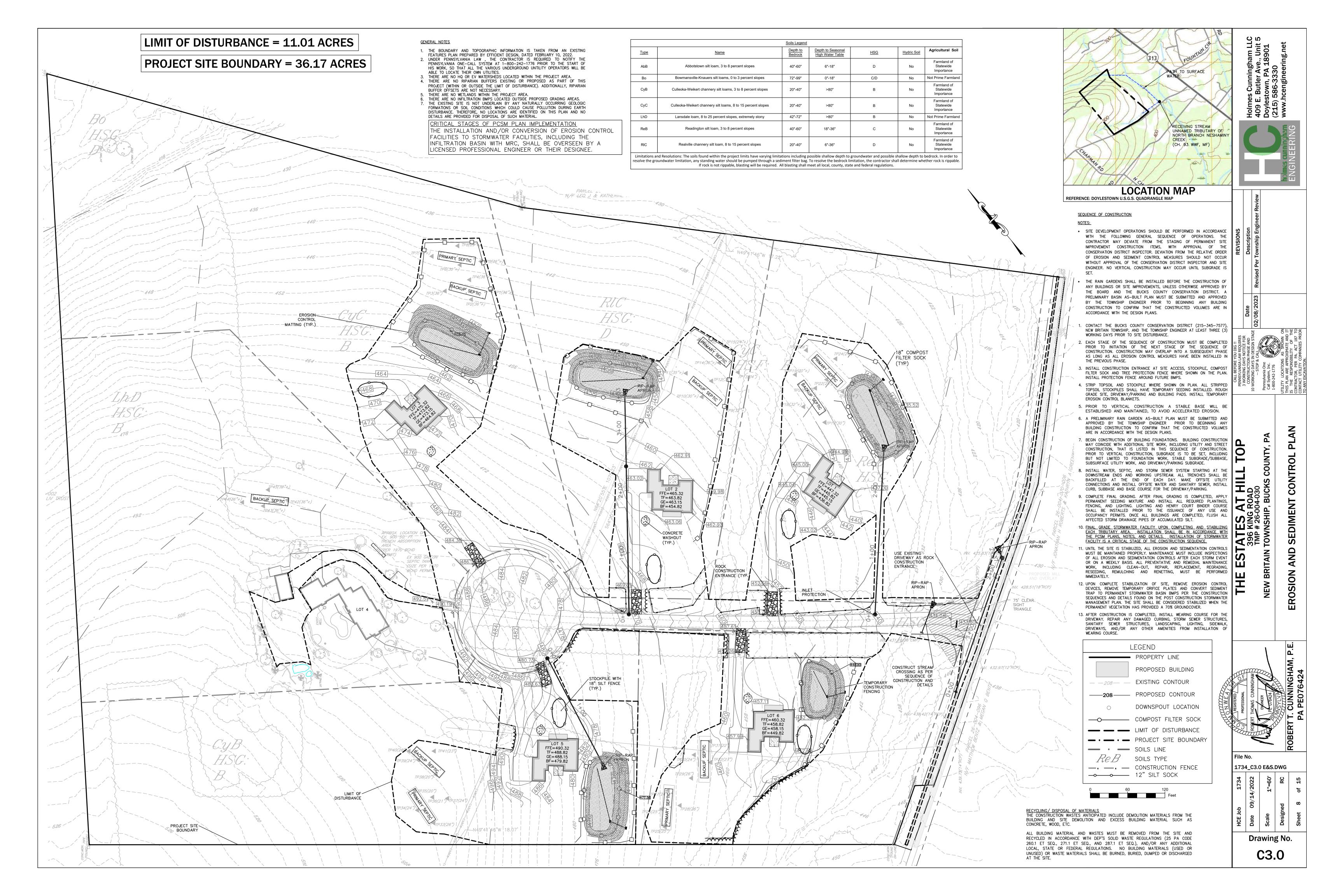
STOP SIGN



DETAIL

1734\_C2.1 DETAILS.DWG Ś

**Drawing No.** 



RE-USE.)

THE SITE WILL NEED TO HAVE FILL IMPORTED FROM AN OFF SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL RESIDE WITH THE OPERATOR.

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR

ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".

# EROSION / SEDIMENT CONTROL PLAN STANDARD NOTES

STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET; STOCKPILE SLOPES MUST NOT EXCEED 2L:1V.

THE OPERATOR/RESPONSIBLE PERSON (O/RP) ON SITE SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE O/RP SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION

THE O/RP SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED, APPROVED BY THE BUCKS COUNTY CONSERVATION DISTRICT AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL SOIL AND/OR ROCK SPOIL AND BORROW AREAS REGARDLESS OF THEIR

ALL PUMPING OF SEDIMENT-LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP SUCH AS A PUMPED WATER FILTER BAG DISCHARGING OVER UNDISTURBED AREAS.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED AND FUNCTIONAL BEFORE SITE

DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMP

CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING THE REMOVAL OF THE BMPS MUST BE STABILIZED IMMEDIATELY. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITY, THE O/RP SHALL

INVITE ALL CONTRACTORS INVOLVED IN THAT ACTIVITY, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL THE EROSION AND SEDIMENT CONTROL PLAN DESIGNER AND THE BUCKS COUNTY CONSERVATION DISTRICT TO A PRE—CONSTRUCTION MEETING. ALSO, AT LEAST THREE DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITY, ALL CONTRACTORS INVOLVED IN THAT ACTIVITY SHALL NOTIFY THE PENNSYLVANIA ONE-CALL SYSTEM INC. AT 1-800-242-1776 TO DETERMINE ANY

IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITY CEASES, THE O/RP SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT SPECIFIED RATES. DISTURBED AREAS THAT ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS.

DISTURBED AREAS THAT ARE AT FINISHED GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT VEGETATIVE STABILIZATION

AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% (PERCENT) VEGETATIVE OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

UPON THE INSTALLATION OF TEMPORARY SEDIMENT BASIN RISER(S), A QUALIFIED SITE REPRESENTATIVE SHALL CONDUCT AN IMMEDIATE INSPECTION OF THE RISER(S), WHEREUPON THE BUCKS COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING THAT THE RISER IS SEALED (WATERTIGHT).

AT STREAM CROSSINGS, A 50-FOOT BUFFER SHALL BE MAINTAINED. ON BUFFERS, CLEARINGS, SOD DISTURBANCES AND EXCAVATIONS, EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITY SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE AVOIDED WITHIN BUFFER ZONES.

LINTIL A SITE IS STABILIZED. ALL FROSION AND SEDIMENT BMPS MUST BE MAINTAINED MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE—GRADING, RE—SEEDING, RE—MULCHING AND RE—NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED, WILL BE REQUIRED.

SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED OR PLACED IN SOIL STOCKPILES AND STABILIZED.

ALL BUILDING MATERIAL AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED IN ACCORDANCE WITH DEP'S SOLID WASTE REGULATIONS (25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ.), AND/OR ANY ADDITIONAL LOCAL, STATE OR FEDERAL REGULATIONS. NO BUILDING MATERIALS (USED OR UNUSED) OR WASTE MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.

# SEEDING NOTES:

# **TEMPORARY SEEDING:**

- TEMPORARY SEEDING SHALL BE DONE IN AREAS WHERE NO ACTIVITY WORK WILL BE PERFORMED. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED MUST BE SEEDED AND MULCHED IMMEDIATELY.
- DURING NON-GERMINATING PERIODS, ONLY MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. AREAS MULCHED DURING THE NON-GERMINATING PERIODS, MUST BE LIMED, FERTILIZED, SEEDED, AND MULCHED
- IMMEDIATELY FOLLOWING THE END OF THE NON-GERMINATING PERIODS. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE (1) YEAR
- 4. DISTURBED AREAS WHICH ARE AT EITHER FINISHED GRADE OR WILL NOT BE DISTURBED AGAIN WITHIN ONE (1) YEAR MUST BE SEEDED WITH A PERMANENT SEED MIXTURE AND MULCHED.
- APPLY AGRICULTURAL LIMESTONE AT A RATE OF ONE (1) TON PER ACRE. (5 POUNDS PER, 1000 SQUARE
- APPLY FERTILIZER AT THE RATE OF 50-50-50 PER ACRE.
- WORK THE LIMESTONE AND FERTILIZER INTO THE SOIL. UTILIZING THE FOLLOWING SEEDING TYPES, RATES AND TIME SCHEDULE

### TEMPORARY SEEDING 1 LB./1000 SF ANNUAL RYEGRASS MAY 15 TO SEPT 15 1 LB./1000 SF SUDAN GRASS

MAY BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEED MIXTURE.

SEPT 15 TO OCT 15 168 LB./AC WINTER RYE APPLY HAY OR STRAW MULCH (IN ACCORDANCE WITH SECTION NO. 4) AT A RATE OF THREE (3) TONS PER

# 6. ALL SEED SHALL BE LABELED, DATED AND QUALITY CONSISTENT WITH SECTION NO. 2

# DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE DISTURBED AGAIN WITHIN ONE (1) YEAR MUST BE SEEDED WITH A PERMANENT SEED MIXTURE AND MULCHED.

- SEEDING SHALL BE DONE DURING PERIODS FROM APRIL 15TH TO OCTOBER PT, UNLESS OTHERWISE DIRECTED. IF SEEDING IS DONE AFTER OCTOBER 1", DORMANT SEED MUST BE USED AND DISTURBED AREAS MUST BE
- 3. DISTURBED FINAL GRADED AREAS AND DRAINAGE SWALES WILL BE PERMANENTLY SEEDED AS FOLLOWS: MINIMUM OF 4" OF TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDED. TOPSOIL SHALL BE FREE OF
- STONES, STICKS, WASTE MATERIAL AND SIMILAR DEBRIS. FROZEN GROUND SHALL NOT BE SPREAD AS TOPSOIL AND TOPSOIL SHALL NOT BE SPREAD OVER FROZEN GROUND. B. A SOIL ANALYSIS IS RECOMMENDED, HOWEVER, IN LIEU OF AN ANALYSIS APPLY AGRICULTURAL LIMESTONE AND FERTILIZER AT RATES RECOMMENDED BELOW (OR AS SUGGESTED BY THE SOIL TEST RESULTS (ONE (1)
- TEST PER 25 ACRES)) THE LIMESTONE AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO DEPTHS OF 3 TO 4 INCHES. D. GRASS
- SHALL NOT BE PLANTED AFTER HEAVY RAIN OR WATERING. ALL SEED USED SHALL BE LABELED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT IN EFFECT AT THE TIME OF PURCHASE. INERT MATTER
- SHALL NOT EXCEED 15% AND BLUE TAG CERTIFIED SEED SHALL BE SUPPLIED WHEREVER POSSIBLE. SMOOTH AND FIRM SEED BED WITH CULTIPACKER OR SIMILAR EQUIPMENT PRIOR TO SEEDING. APPLY SEED JNIFORMLY BY BROADCASTING, DRILLING OR HYDRO SEEDING. COVER SEEDS WITH 1/2" OF SOIL WITH
- APPLY HAY OR STRAW MULCH (IN ACCORDANCE WITH SECTION NO. 4) AT A RATE OF THREE (3) TONS PER

# PERMANENT SEEDING FOR NORMAL MOWED LAWN AREAS:

RATE MARCH 1 TO JUNE 1 & AUG 15 TO OCT 1 2 LBS./1000 SF KY31 TALL FESCUE OCT 1 TO MARCH 1 & JUNE 1 TO AUG 1 2 LBS./1000 SF RED TOP\*

((\*) USE DORMANT SEED, UNIFORMLY APPLIED, WORKING INTO A DEPTH OF 1/4 INCH. THE USE OF MULCH IS REQUIRED. THE USE OF NETTING OR EROSION CONTROL MATS MAY BE REQUIRED.)

## PERMANENT SEEDING FOR SPECIAL AREAS (SWALES, POND EMBANKMENTS, LEVEES, DIVERSION CHANNELS, ETC):

SEASON RATE MARCH 1 TO JUNE 1 & AUG 15 TO OCT 1 2 LBS./1000 SF KY31 TALL FESCUE 80%

NOTE: SEEDING PERIODS AND SPECIFICATIONS MAY VARY DUE TO SITE CONDITIONS AND VARIANCES FROM THE TIME THIS REPORT IS WRITTEN AND APPROVED. IT MAY BE NECESSARY TO ADAPT SEED SPECIFICATION, VARIETIES, AND QUALITIES. FOR SPECIAL CONDITIONS CONSULT "GUIDELINE FOR RECLAMATION OF SEVERELY DISTURBED AREAS", PENNSYLVANIA STATE UNIVERSITY.

- FERTILIZER: A SOIL ANALYSIS IS RECOMMENDED BUT IN LIEU OF AN ANALYSIS APPLY AGRICULTURAL LIMESTONE AT A RATE OF FOUR (4) TONS/ACRE AND 10-20-20 FERTILIZED AT A RATE OF 50 LBS. PER 1000 SF. THESE MATERIALS WILL BE UNIFORMLY APPLIED AND WORKED INTO THE TOPSOIL TO A DEPTH OF 3 TO 4 INCHES. IMMEDIATELY BEFORE SEEDING, A 1 0- 1 0- 10 FERTILIZER WILL BE WORKED INTO THE SURFACE AT A RATE OF
- 5. HYDRO SEEDING: LIME AND SEED SHALL BE AS SPECIFIED ABOVE, AND FERTILIZER SHALL BE APPLIED AT A RATE OF 40-80. CROWN VETCH SHALL BE INOCULATED AT FOUR TIMES THE MANUFACTURER'S RATE. SHOULD FERTILIZER BE APPLIED WITH THE INOCULANT, THE MIXTURE SHALL NOT REMAIN IN A SLURRY FOR MORE THAN ONE HOUR. WOOD CELLULOSE FIBER, APPLIED AT A RATE OF 35 LBS. PER 1000 SF, MAY BE APPLIED AS PART OF THE SLURRY IN LIEU OF MULCHING. SYNTHETIC MULCH BINDER, SUCH AS CURASOL, DCA-70, TERRE-TACK OR AN APPROVED EQUAL SHALL BE USED PER THE MANUFACTURER'S INSTRUCTIONS TO ANCHOR THE MULCH.
- MULCHING: MULCHING SHALL BE APPLIED AS FOLLOWS: STRAW - SHALL BE ALL DRIED AND FREE FROM UNDESIRABLE SEEDS AND COURSE MATERIAL, APPLY AT A RATE OF 115 TO 150 LBS. PER 1000 SF OR 3 TONS PER ACRE. MULCHED AREAS SHALL BE CHECKED PERIODICALLY AND IMMEDIATELY AFTER STORMS AND WIND. DAMAGED OR MISSING MULCH SHALL BE REPLACED. A TACKIFIER APPLIED AFTER STRAW IS RECOMMENDED. TACKIFIER MAY BE ASPHALT OR POLYMER SPRAY. APPLY AT A RATE RECOMMENDED BY THE MANUFACTURER WITH SUITABLE EQUIPMENT. IN LIEU OF MANUFACTURERS RECOMMENDATIONS APPLY AT A RATE OF .04 TO .06 GALLONS PER SQUARE YARD.
- NETTING / EROSION CONTROL BLANKETS THE USE AND INSTALLATION OF EROSION CONTROL BLANKETS OR NETTING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION AND SHALL BE SELECTED FOR

# UTILITY TRENCHING GUIDELINES:

THE PROPER APPLICATION AND CONDITIONS.

# CONSTRUCTION REQUIREMENTS —

- A. LIMIT ADVANCE CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
- B. WORK CREWS AND EQUIPMENT FOR TRENCHING, PLACEMENT OF PIPE, PLUG CONSTRUCTION AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND
- C. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY.
- D. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING AS REQUIRED, TO A FACILITY FOR REMOVAL OF SEDIMENTS IN ACCORDANCE WITH PADEP GUIDELINES
- E. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE
- 2. EXCEPTIONS IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED IN THESE CASES, ALL OF THE REQUIREMENTS LISTED UNDER ITEM 1 WILL REMAIN IN EFFECT WITH THE FOLLOWING EXCEPTIONS:
- A. DAILY BACKFILLING OF THE TRENCH MAY BE DELAYED FOR SIX DAYS. ALL PRESSURE TESTING AND THE COMPLETE BACKFILLING OF THE OPEN TRENCH MUST BE COMPLETED BY THE SEVENTH WORKING DAY.
- B. IF DAILY BACKFILLING IS DELAYED, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS, APPROPRIATE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES/FACILITIES WILL BE INSTALLED, AND THE AREAS SEEDED AND MULCHED WITHIN THE NEXT TWO CALENDAR DAYS.

# BMP MAINTENANCE

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION STABILIZATION, AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR THE PROPER CONSTRUCTION AND STABILIZATION OF PERMANENT CONTROL MEASURES AND RELATED ITEMS INCLUDED WITHIN THIS PLAN

DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING INSPECTIONS OF THE BMPS AFTER EACH RUNOFF EVENT AS WELL AS ON A WEEKLY BASIS. THE CONTRACTOR SHALL KEEP A LOG OF ALL INPECTIONS AND MAINTENANCE PERFORMED ON THE BMPS

THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PERMANENT CONTROL MEASURES.

SOIL SEDIMENT REMOVED FROM ANY TEMPORARY CONTROL MEASURE DURING REGULAR MAINTENANCE WILL BE INCORPORATED BACK INTO THE EARTHWORK AS FILL ON THE SITE. SOIL SEDIMENT MATERIAL SHALL BE DISTRIBUTED ON-SITE WITHOUT CHANGING DRAINAGE PATTERNS DURING A SPECIFIC CONSTRUCTION STAGE.

COMPOST FILTER SOCK WILL BE INSPECTED ONCE A WEEK OR AFTER EVERY STORM EVENT, WHICHEVER COMES FIRST. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE SOCK FUNCTIONAL. DEPOSITS WILL BE REMOVED WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK. UNDERCUTTING OR EROSION OF THE TOE ANCHOR OF THE COMPOST FILTER SOCK WILL BE REPLACED IMMEDIATELY WITH ROCK FILTER OUTLETS. ANY MANUFACTURER'S RECOMMENDATIONS WILL BE ADHERED TO FOR REPLACING COMPOST FILTER SOCK DUE TO WEATHERING.

THE CONSTRUCTION ENTRANCE WILL BE INSPECTED AT THE END OF EACH WORK DAY. THE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE.

AT THE END OF EACH CONSTRUCTION DAY, ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS. WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WITH WATER WILL NOT BE PERMITTED.

<u>LIMITING EXPOSED EXTENT AND DURATION OF DISTURBED AREAS</u>THE INITIAL PHASE OF THE PROPOSED PROJECT CONSISTS OF ESTABLISHING THE SOIL EROSION CONTROL MEASURES IN A SEQUENCE APPROPRIATE TOWARD LIMITING SOIL EROSION. THE EXTENT OF DISTURBED LAND HAS BEEN LIMITED TO INCLUDE ONLY THOSE AREAS REQUIRED FOR THE DEVELOPMENT OF THE SUBJECT SITE. ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED. THE SEQUENCE OF CONSTRUCTION ACTIVITIES IS OUTLINED IN THE SEQUENCE OF CONSTRUCTION CONTAINED HEREIN AND ON THE

PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION

THE PROJECT PROPOSES TO MINIMIZE DISTURBANCE TO THE EXISTING VEGETATION AT THE SITE BY ONLY PROPOSING DISTURBANCE IN THE AREA WHERE NEEDED. THE SITE VEGETATION PROPOSED FOR DISTURBANCE IS MAINLY SCRUB VEGETATION AND VINES WHICH ARE CURRENTLY DETRIMENTAL TO THE LARGE TREES ON THE SOUTHERN PROPERTY LINE.

MINIMIZE SOIL COMPACTION THE PROJECT DESIGN LIMITS THE BULK/ MASS EARTHWORK TO BE PERFORMED AS MUCH AS POSSIBLE. ADDITIONALLY, SOIL COMPACTION WILL NOT BE REQUIRED OTHER THAN IN PROPOSED IMPERVIOUS AREAS.

FEATURES AND MEASURES TO MINIMIZE STORMWATER RUNOFFTEMPORARY STABILIZATION: UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED. THE DISTURBED AREAS WILL ALSO BE MULCHED WITH UNROTTED STRAW OR SALT HAY. TEMPORARY STABILIZATION MEASURES ARE SPECIFIED ON SOIL EROSION AND SEDIMENT POLLUTION CONTROL DETAIL PLANS.

PERMANENT STABILIZATION: ALL SLOPES AND DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT SEEDING AND LANDSCAPING AS SOON AS POSSIBLE AFTER THE FINAL EARTHMOVING AND CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. AREAS THAT ARE PROPOSED TO HAVE SPECIFIC LINING SHALL BE STABILIZED WITH THE SPECIFIED LINING AS SOON AS THE EARTHMOVING AND CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. TEMPORARY SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL A UNIFORM EROSION RESISTANT PERENNIAL VEGETATIVE COVER OF THE DISTURBED AREA IS ESTABLISHED. PERMANENT STABILIZATION MEASURES ARE SPECIFIED ON THE EROSION AND SEDIMENT POLLUTION CONTROL DETAIL PLANS.

SOLIDS SEPARATION: PRIOR TO ANY SITE DISTURBANCE OR CONSTRUCTION ACTIVITIES, A GRAVEL BUFFER WILL BE INSTALLED AT THE EXISTING DRIVEWAYS TO SERVE AS A CONSTRUCTION ENTRANCE. IN ADDITION, FILTER FABRIC FENCING WILL BE INSTALLED AROUND THE PROJECT AREA, DOWNGRADIENT FROM ANY DISTURBANCE, TO PREVENT SEDIMENT FROM LEAVING THE SITE. FILTER FABRIC SILT FENCING WILL BE CONSTRUCTED AND WILL REMAIN OPERATIONAL UNTIL PERMANENT CONTROL MEASURES ARE IN

A. Prior to any site work, clearing, tree removal, grading, or construction, the tree protection area shall be delineated by the following methods: 1) The tree protection area that is delineated on the site prior to construction shall conform to the approved development plans.

(2) Forty—eight inch high orange snow fence or other suitable fence, such as super silt fence, mounted on steel posts located 8 feet on center, shall be placed along the boundary of the tree protection area. (3) Trees being removed shall not be felled, pushed or pulled into a tree protection area or into rees that are to be preserved.

(4) Grade changes and excavations shall not encroach upon the Tree protection area. (5) No toxic materials, including petroleum products shall be stored less than 100 feet from a tree protection area or a watercourse. If field conditions warrant, a greater distance may be

(6) The area within the tree protection area shall not be built upon nor shall any materials be

stored there either temporarily or permanently. Vehicles and equipment shall not be parked in the tree protection area. (7) When tree stumps are located within 10 feet of the tree protection area, the stumps shall be removed by means of a stump grinder to minimize the effect on surrounding root systems. (8) Tree roots which must be severed shall be cut by a backhoe or similar equipment aligned radially to the tree. This method reduces the lateral movement of the roots during excavation,

which if done by other methods could damage the intertwined roots of adjacent trees. (9) Within 4 hours of any severance of roots, all tree roots that have been exposed and/or damaged shall be trimmed cleanly and covered temporarily with moist peat moss, burlap, or other biodegradable material to keep them from drying out until permanent cover can be installed. (10) Sediment, retention, and detention basins shall not discharge into the tree protection area. (11) Sediment, retention, and detention basins shall not be located within the tree protection

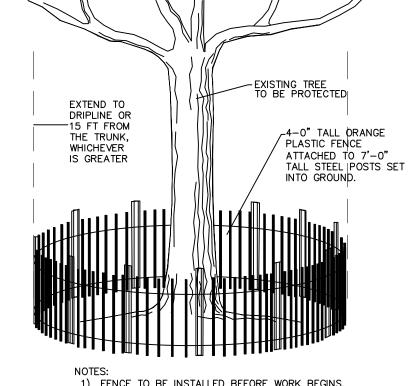
(12) Trees shall not be used for roping, cables, signs, or fencing. Nails and spikes shall not be driven into trees. Protection from Grade Change.

1) When the original grade cannot be retained at the tree protection area line, a retaining wall shall be constructed outside the tree protection area. Appropriate details of the retaining wall design shall be provided. To ensure the survival of trees, the following methods shall be used. The top of the wall shall be four inches above the finished grade level.

)) The wall shall be constructed of large stones, bricks, building tiles, concrete blocks, or treated wood beams not less than 6 inches by 6 inches. A means for drainage through the wall shall be provided so water will not accumulate on either side of the wall. Weep holes shall b required within any wall

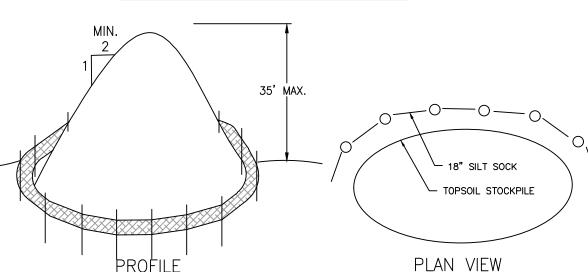
(a) Any severed roots as a result of excavation shall be trimmed so that their edges are smooth and are cut back to a lateral root if exposed. Trees Damaged During Construction. Tree trunks and exposed roots damaged during construction shall be protected from further damage. Damaged branches shall be pruned according National Arborist Association standards. All cuts shall be made sufficiently close to the trunk or parent limb without cutting into the branch collar or leaving a protruding stub. All necessary pruning cuts must be made to prevent bark from being torn from the tree and to facilitate rapid

E. Tree Replacement. In the event that trees that are to be protected are removed or damaged by accident or by violation of the tree protection requirements, trees shall be replaced on an inch for inch basis.

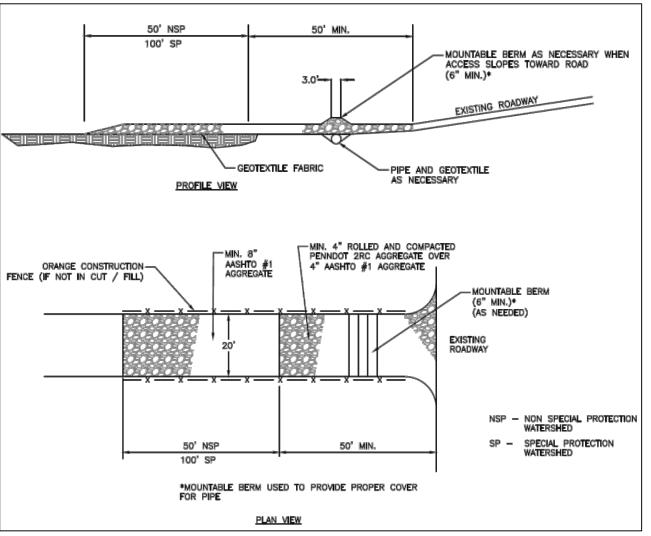


1) FENCE TO BE INSTALLED BEFORE WORK BEGINS. FENCE MUST REMAIN AND BE MAINTAINED THROUGH DURATION OF CONSTRUCTION. 2) ORANGE CONSTRUCTION FENCE MAY BE SUBSTITUTED FOR SNOW FENCE.

TREE PROTECTION FENCING DETAIL



COMPOST FILTER SOCK MUST BE PLACED DOWNSLOPE OF ALL STOCKPILES. IMMEDIATELY APPLY TEMPORARY SEEDING TO AL STOCKPILES WHICH WILL REMAIN IN PLACE 20 DAYS OR MORE. STOCKPILE AREA DETAIL



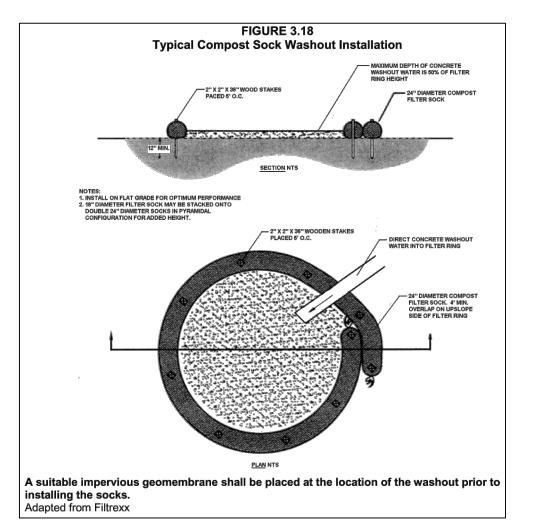
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

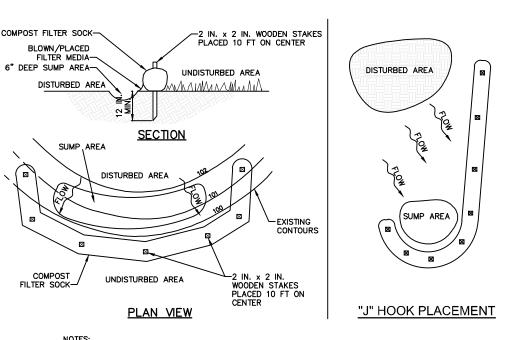
MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SIT FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ALTERNATIVE ROCK CONSTRUCTION ENTRANCE

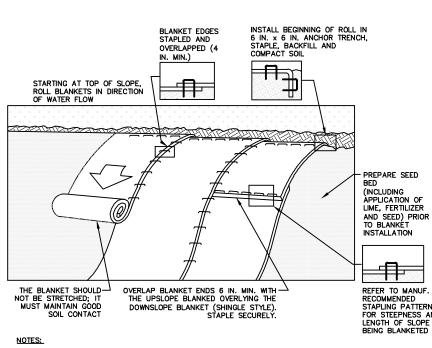


# CONCRETE WASHOUT DETAIL



SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVEN' BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

> STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK NOT TO SCALE



SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EYENT UNTIL PERENNIAL YEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1 EROSION CONTROL BLANKET INSTALLATION

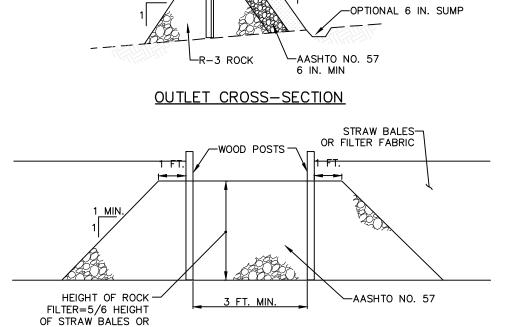


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NOTES: ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY. STANDARD CONSTRUCTION DETAIL #9-3 RIPRAP APRON AT PIPE OUTLET TO AN EXISTING CHANNEL



OPTIONAL 6 IN. COMPOST LAYER

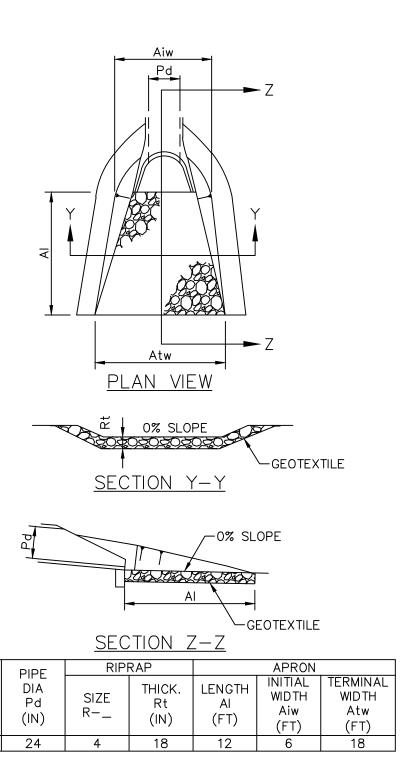
FIRMLY ANCHORED

UP-SLOPE FACE

FILTER FABRIC FENCE

NOTES: A ROCK FILTER OUTLET SHALL BE INSTALLED WHERE FAILURE OF A SILT FENCE OR STRAW BALE BARRIER HAS OCCURRED DUE TO CONCENTRATED FLOW. ANCHORED COMPOST LAYER SHALL BE USED ON UPSLOPE FACE IN HQ AND EV WATERSHEDS. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. STANDARD CONSTRUCTION DETAIL #4-6

ROCK FILTER OUTLET

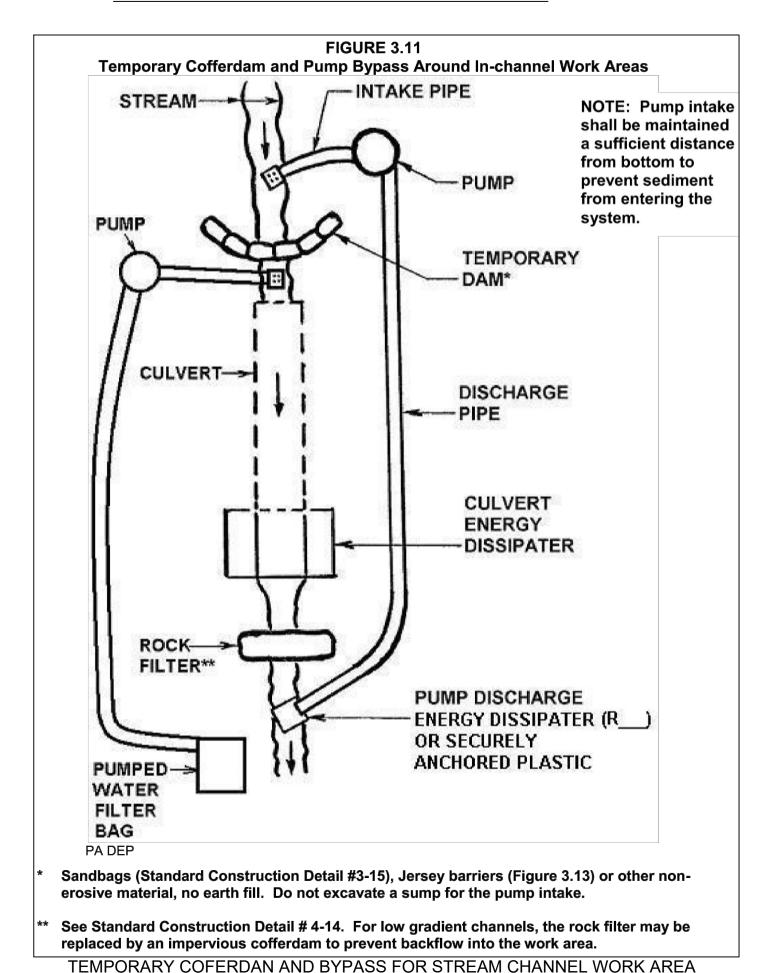


OUTLET

NO.

ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS. ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

# STANDARD CONSTRUCTION DETAIL #9-1 RIPRAP APRON AT PIPE OUTLET WITH FLARED END SECTION OR ENDWALL



STREAM CHANNEL CULVERT REPLACEMENT SEQUENCE OF CONSTRUCTION:

1. INSTALL BYPASS PUMP AND ENERGY DISSIPATER AS SHOWN ON THE DETAIL. 2. INSTALL COFFERDAM AND ROCK FILTER IN CHANNEL. INSTALL PUMPED WATER FILTER BAG IN A LEVEL, GRASSY, STABLE AREA ADJACENT TO THE CHANNEL.

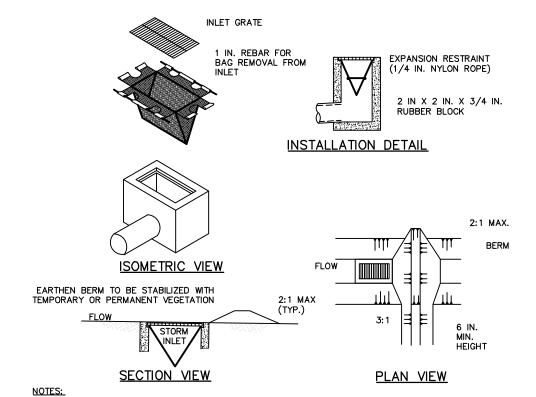
4. INSTALL PROPOSED CULVERT AS SHOWN ON THE APPROVED GENERAL PERMIT 5. STABILIZE DISTURBED AREA AS PER THE DETAILS AND NOTES SHOWN ON THE

3. BEGIN EXCAVATION AND REMOVAL OF EXISTING STREAM CROSSING.

6. REMOVE PUMPED WATER FILTER BAG, ROCK FILTER, AND COFFERDAM.

APPROVED EROSION AND SEDIMENT CONTROL PLAN.

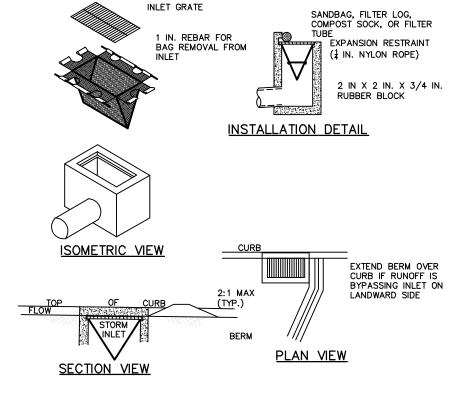
7. REMOVE BYPASS PUMP.



MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS. STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET



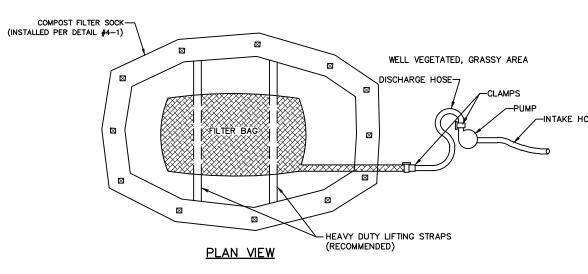
NOTES: MAXIMUM DRAINAGE AREA = 1/2 ACRE.

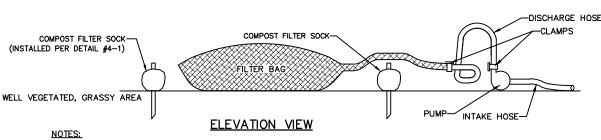
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT, BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND FIER EACH RUNOFF EVENT, BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS, ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS. STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET





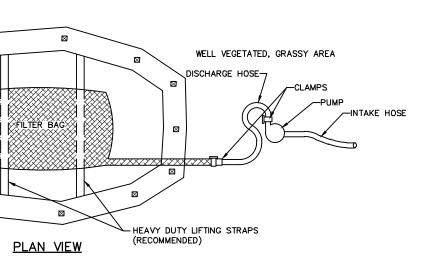
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE

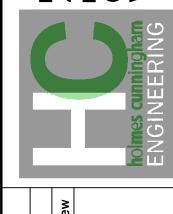
LOWING STANDARDS:		
PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS. NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED. STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG WITH COMPOST FILTER SOCK

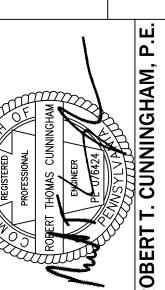




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# TEMPORARY SEEDING:

TEMPORARY SEEDING SHALL BE DONE IN AREAS WHERE NO ACTIVITY WORK WILL BE PERFORMED. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED

- MUST BE SEEDED AND MULCHED IMMEDIATELY. DURING NON-GERMINATING PERIODS, ONLY MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. AREAS MULCHED DURING THE NON-GERMINATING
- PERIODS, MUST BE LIMED, FERTILIZED, SEEDED, AND MULCHED IMMEDIATELY FOLLOWING THE END OF THE NON-GERMINATING PERIODS. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN ONE (1) YEAR MAY BE SEEDED AND MULCHED WITH A
- QUICK GROWING TEMPORARY SEED MIXTURE.
- . DISTURBED AREAS WHICH ARE AT EITHER FINISHED GRADE OR WILL NOT BE DISTURBED AGAIN WITHIN ONE (1) YEAR MUST BE SEEDED WITH A PERMANENT SEED MIXTURE AND MULCHED.
- TEMPORARY SEEDING STEPS: A. APPLY AGRICULTURAL LIMESTONE AT A RATE OF ONE (1) TON PER ACRE. (5 POUNDS PER, 1000 SQUARE FEET)
- APPLY FERTILIZER AT THE RATE OF 50-50-50 PER ACRE. WORK THE LIMESTONE AND FERTILIZER INTO THE SOIL.
- D. UTILIZING THE FOLLOWING SEEDING TYPES, RATES AND TIME SCHEDULE
- 1 LB./1000 SF ANNUAL RYEGRASS MARCH 1 TO JUNE 15
- MAY 15 TO SEPT 15 1 LB./1000 SF SUDAN GRASS SEPT 15 TO OCT 15 168 LB./AC WINTER RYE
- E. APPLY HAY OR STRAW MULCH (IN ACCORDANCE WITH SECTION NO. 4) AT A RATE OF THREE (3) TONS PER ACRE.

# S. ALL SEED SHALL BE LABELED, DATED AND QUALITY CONSISTENT WITH SECTION NO. 2 PERMANENT SEEDING:

- DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE DISTURBED AGAIN WITHIN ONE (1) YEAR MUST BE SEEDED WITH A PERMANENT
- SEEDING SHALL BE DONE DURING PERIODS FROM APRIL 15TH TO OCTOBER PT, UNLESS OTHERWISE DIRECTED. IF SEEDING IS DONE AFTER OCTOBER 1", DORMANT SEED MUST BE USED AND DISTURBED AREAS MUST BE MULCHED.
- DISTURBED FINAL GRADED AREAS AND DRAINAGE SWALES WILL BE PERMANENTLY SEEDED AS FOLLOWS: MINIMUM OF 4" OF TOPSOIL SHALL BE SPREAD OVER ALL AREAS TO BE SEEDED. TOPSOIL SHALL BE FREE OF STONES, STICKS, WASTE MATERIAL AND SIMILAR DEBRIS. FROZEN GROUND SHALL NOT BE SPREAD AS TOPSOIL AND TOPSOIL SHALL NOT BE SPREAD OVER FROZEN GROUND.
- B. A SOIL ANALYSIS IS RECOMMENDED, HOWEVER, IN LIEU OF AN ANALYSIS APPLY AGRICULTURAL LIMESTONE AND FERTILIZER AT RATES RECOMMENDED BELOW (OR AS SUGGESTED BY THE SOIL TEST RESULTS (ONE (1) TEST PER 25 ACRES)).
- THE LIMESTONE AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO DEPTHS OF 3 TO 4 INCHES. D. GRASS SHALL NOT BE PLANTED AFTER HEAVY D. ALL SEED USED SHALL BE LABELED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL
- SEED ACT IN EFFECT AT THE TIME OF PURCHASE. INERT MATTER SHALL NOT EXCEED 15% AND BLUE TAG CERTIFIED SEED SHALL BE SUPPLIED SMOOTH AND FIRM SEED BED WITH CULTIPACKER OR SIMILAR EQUIPMENT PRIOR TO SEEDING. APPLY SEED UNIFORMLY BY BROADCASTING, DRILLING OR
- HYDRO SEEDING. COVER SEEDS WITH '/2" OF SOIL WITH SUITABLE EQUIPMENT. APPLY HAY OR STRAW MULCH (IN ACCORDANCE WITH SECTION NO. 4) AT A RATE OF THREE (3) TONS PER ACRE.

# PERMANENT SEEDING FOR NORMAL MOWED LAWN AREAS:

MARCH 1 TO JUNE 1 & AUG 15 TO OCT 1 2 LBS./1000 SF KY31 TALL FESCUE

AND RED TOP 12% OCT 1 TO MARCH 1 & JUNE 1 TO AUG 1 2 LBS./1000 SF RED TOP\*

((\*) USE DORMANT SEED, UNIFORMLY APPLIED, WORKING INTO A DEPTH OF 1/4 INCH. THE USE OF MULCH IS REQUIRED. THE USE OF NETTING OR EROSION CONTROL MATS MAY BE REQUIRED.)

### PERMANENT SEEDING FOR SPECIAL AREAS (SWALES, POND EMBANKMENTS, LEVEES, DIVERSION CHANNELS, ETC):

RATE <u>TYPE</u> MARCH 1 TO JUNE 1 & AUG 15 TO OCT 1 2 LBS./1000 SF KY31 TALL FESCUE 80% AND RYEGRASS 20%

NOTE: SEEDING PERIODS AND SPECIFICATIONS MAY VARY DUE TO SITE CONDITIONS AND VARIANCES FROM THE TIME THIS REPORT IS WRITTEN AND APPROVED. IT MAY BE NECESSARY TO ADAPT SEED SPECIFICATION, VARIETIES, AND QUALITIES. FOR SPECIAL CONDITIONS CONSULT "GUIDELINE FOR RECLAMATION OF SEVERELY DISTURBED AREAS". PENNSYLVANIA STATE UNIVERSITY.

- FERTILIZER: A SOIL ANALYSIS IS RECOMMENDED BUT IN LIFU OF AN ANALYSIS APPLY AGRICULTURAL LIMESTONE AT A RATE OF FOUR (4) TONS/ACRE AND 10-20-20 FERTILIZED AT A RATE OF 50 LBS. PER 1000 SF. THESE MATERIALS WILL BE UNIFORMLY APPLIED AND WORKED INTO THE TOPSOIL TO A DEPTH OF 3 TO 4 INCHES. IMMEDIATELY BEFORE SEEDING, A 1 0- 1 0- 10 FERTILIZER WILL BE WORKED INTO THE SURFACE AT A RATE OF 10 LBS. PER
- HYDRO SEEDING: LIME AND SEED SHALL BE AS SPECIFIED ABOVE, AND FERTILIZER SHALL BE APPLIED AT A RATE OF 40-80. CROWN VETCH SHALL BE INOCULATED AT FOUR TIMES THE MANUFACTURER'S RATE. SHOULD FERTILIZER BE APPLIED WITH THE INOCULANT, THE MIXTURE SHALL NOT REMAIN IN A SLURRY FOR MORE THAN ONE HOUR. WOOD CELLULOSE FIBER, APPLIED AT A RATE OF 35 LBS. PER 1000 SF, MAY BE APPLIED AS PART OF THE SLURRY IN LIEU OF MULCHING. SYNTHETIC MULCH BINDER, SUCH AS CURASOL, DCA-70, TERRE-TACK OR AN APPROVED EQUAL SHALL BE USED PER THE MANUFACTURER'S INSTRUCTIONS TO ANCHOR THE MULCH.
- MULCHING: MULCHING SHALL BE APPLIED AS FOLLOWS: A. STRAW - SHALL BE ALL DRIED AND FREE FROM UNDESIRABLE SEEDS AND COURSE MATERIAL, APPLY AT A RATE OF 115 TO 150 LBS. PER 1000 SF

SUBBASE AND BASE COURSE FOR THE DRIVEWAY/PARKING.

STORMWATER CONVEYANCE SYSTEM

SHALL BE REPLACED. A TACKIFIER APPLIED AFTER STRAW IS RECOMMENDED. TACKIFIER MAY BE ASPHALT OR POLYMER SPRAY. APPLY AT A RATE RECOMMENDED BY THE MANUFACTURER WITH SUITABLE EQUIPMENT. IN LIEU OF MANUFACTURERS RECOMMENDATIONS APPLY AT A RATE OF .04 TO .06 NETTING / EROSION CONTROL BLANKETS - THE USE AND INSTALLATION OF EROSION CONTROL BLANKETS OR NETTING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION AND SHALL BE SELECTED FOR THE PROPER APPLICATION AND CONDITIONS.

OR 3 TONS PER ACRE. MULCHED AREAS SHALL BE CHECKED PERIODICALLY AND IMMEDIATELY AFTER STORMS AND WIND. DAMAGED OR MISSING MULCH

SEQUENCE OF CONSTRUCTION NOTES:

- SITE DEVELOPMENT OPERATIONS SHOULD BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING GENERAL SEQUENCE OF OPERATIONS. THE CONTRACTOR MAY DEVIATE FROM THE STAGING OF PERMANENT SITE IMPROVEMENT CONSTRUCTION ITEMS, WITH APPROVAL OF THE CONSERVATION DISTRICT INSPECTOR. DEVIATION FROM THE RELATIVE ORDER OF EROSION AND SEDIMENT CONTROL MEASURES SHOULD NOT OCCUR WITHOUT APPROVAL OF THE CONSERVATION DISTRICT INSPECTOR AND SITE ENGINEER. NO VERTICAL CONSTRUCTION MAY OCCUR UNTIL SUBGRADE IS SET.
- THE RAIN GARDENS SHALL BE INSTALLED BEFORE THE CONSTRUCTION OF ANY BUILDINGS OR SITE IMPROVEMENTS, UNLESS OTHERWISE APPROVED BY THE BOARD AND THE BUCKS COUNTY CONSERVATION DISTRICT. A PRELIMINARY BASIN AS-BUILT PLAN MUST BE SUBMITTED AND APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO BEGINNING ANY BUILDING CONSTRUCTION TO CONFIRM THAT THE CONSTRUCTED VOLUMES ARE IN ACCORDANCE WITH THE DESIGN PLANS.
- 1. CONTACT THE BUCKS COUNTY CONSERVATION DISTRICT (215-345-7577), NEW BRITAIN TOWNSHIP, AND THE TOWNSHIP ENGINEER AT LEAST THREE (3) WORKING DAYS PRIOR TO SITE DISTURBANCE.
- 2. EACH STAGE OF THE SEQUENCE OF CONSTRUCTION MUST BE COMPLETED PRIOR TO INITIATION OF THE NEXT STAGE OF THE SEQUENCE OF CONSTRUCTION, CONSTRUCTION MAY OVERLAP INTO A SUBSEQUENT PHASE AS LONG AS ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED IN THE PREVIOUS PHASE
- 3. INSTALL CONSTRUCTION ENTRANCE AT SITE ACCESS. STOCKPILE, COMPOST FILTER SOCK AND TREE PROTECTION FENCE WHERE SHOWN ON THE PLAN. INSTALL PROTECTION FENCE AROUND FUTURE BMPS
- 4. STRIP TOPSOIL AND STOCKPILE WHERE SHOWN ON PLAN. ALL STRIPPED TOPSOIL STOCKPILES SHALL HAVE TEMPORARY SEEDING INSTALLED. ROUGH GRADE SITE, DRIVEWAY/PARKING AND BUILDING PADS. INSTALL TEMPORARY EROSION CONTROL BLANKETS.
- 5. PRIOR TO VERTICAL CONSTRUCTION A STABLE BASE WILL BE ESTABLISHED AND MAINTAINED, TO AVOID ACCELERATED EROSION. 6. A PRFI IMINARY RAIN GARDEN AS-BUILT PLAN MUST BE SUBMITTED AND APPROVED BY THE TOWNSHIP ENGINEER PRIOR TO BEGINNING ANY BUILDING
- CONSTRUCTION TO CONFIRM THAT THE CONSTRUCTED VOLUMES ARE IN ACCORDANCE WITH THE DESIGN PLANS. 7. BEGIN CONSTRUCTION OF BUILDING FOUNDATIONS. BUILDING CONSTRUCTION MAY COINCIDE WITH ADDITIONAL SITE WORK, INCLUDING UTILITY AND STREET CONSTRUCTION, THAT IS LISTED IN THIS SEQUENCE OF CONSTRUCTION. PRIOR TO VERTICAL CONSTRUCTION, SUBGRADE IS TO BE SET.
- INCLUDING BUT NOT LIMITED TO FOUNDATION WORK, STABLE SUBGRADE/SUBBASE, SUBSURFACE UTILITY WORK, AND DRIVEWAY/PARKING SUBGRADE. 8. INSTALL WATER, SANITARY SEWER, AND STORM SEWER SYSTEM STARTING AT THE DOWNSTREAM ENDS AND WORKING UPSTREAM. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH DAY. MAKE OFFSITE UTILITY CONNECTIONS AND INSTALL OFFSITE WATER AND SANITARY SEWER, INSTALL CURB,
- 9. COMPLETE FINAL GRADING. AFTER FINAL GRADING IS COMPLETED, APPLY PERMANENT SEEDING MIXTURE AND INSTALL ALL REQUIRED PLANTINGS, FENCING, AND LIGHTING LIGHTING SHALL BE INSTALLED PRIOR TO THE ISSUANCE OF ANY USE AND OCCUPANCY PERMITS. ONCE ALL BUILDINGS ARE COMPLETED, FLUSH ALL AFFECTED STORM DRAINAGE PIPES OF ACCUMULATED SILT.
- 10. CONVERT STORMWATER FACILITY UPON COMPLETING AND STABILIZING EACH TRIBUTARY AREA. INSTALLATION SHALL BE IN ACCORDANCE WITH THE PCSM PLANS, NOTES, AND DETAILS. INSTALLATION OF STORMWATER FACILITY IS A CRITICAL STAGE OF THE CONSTRUCTION SEQUENCE.
- 11. UNTIL THE SITE IS STABILIZED. ALL FROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT OR ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN-OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING, MUST BE PERFORMED
- 12. UPON COMPLETE STABILIZATION OF SITE, REMOVE EROSION CONTROL DEVICES, REMOVE TEMPORARY ORIFICE PLATES AND CONVERT SEDIMENT TRAP TO PERMANENT STORMWATER BASIN BMPS PER THE CONSTRUCTION SEQUENCES AND DETAILS FOUND ON THE POST CONSTRUCTION STORMWATER
- MANAGEMENT PLAN. THE SITE SHALL BE CONSIDERED STABILIZED WHEN THE PERMANENT VEGETATION HAS PROVIDED A 70% GROUNDCOVER. 13. AFTER CONSTRUCTION IS COMPLETED, INSTALL WEARING COURSE FOR THE DRIVEWAY. REPAIR ANY DAMAGED CURBING, STORM SEWER STRUCTURES, SANITARY SEWER STRUCTURES, LANDSCAPING, LIGHTING, SIDEWALK, DRIVEWAYS, AND/OR ANY OTHER AMENITIES FROM INSTALLATION OF WEARING COURSE.

BMP MAINTENANCE PLAN
NOTE: AN ANNUAL REPORT SHALL BE PREPARED AND RETAINED BY THE RESPONSIBLE PARTY STATING THE FOLLOWING MAINTENANCE HAS BEEN PERFORMED. THE HOMEOWNERS ASSOCIATION IS RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER CONVEYANCE SYSTEM, AND ALL OTHER PROPOSED BMP'S.

· ALL STRUCTURAL COMPONENTS MUST BE INSPECTED FOR CRACKING, SUBSIDENCE, BREACHING, WEARING, AND DETERIORATION AT LEAST ANNUALLY.

• CATCH BASINS, MANHOLES AND PIPES TO BE INSPECTED FOR CLOGGING AND EXCESSIVE DEBRIS AND SEDIMENT ACCUMULATION AT LEAST ANNUALLY AS WELL AS AFTER EVERY STORM EXCEEDING 1-INCH OF RAINFALL.

# VEGETATED STORMWATER FACILITY/BASIN (MANAGED RELEASE CONCEPT): • UPGRADIENT CATCH BASINS AND INLETS SHOULD BE INSPECTED AND CLEANED ANNUALLY, OR MORE OFTEN IF HISTORICAL MAINTENANCE RECORDS SUGGEST A MORE

- FREQUENT CLEANING. . THE VEGETATION (FOR THE MRC BMP AND CONTRIBUTING DRAINAGE AREA) SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED.
- . CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS. MOW ONLY AS APPROPRIATE FOR VEGETATIVE SPECIES. INSPECT AT LEAST TWO TIMES PER YEAR AFTER RUNOFF EVENTS GREATER THAN 0.8 INCH AND MAKE SURE THAT RUNOFF DRAINS DOWN WITHIN THE DESIGN PARAMETERS
- (THE LICENSED PROFESSIONAL ENGINEER SHOULD CLEARLY IDENTIFY WHAT THESE PARAMETERS ARE). . AT LEAST TWO TIMES PER YEAR, OR MORE IF HISTORICAL MAINTENANCE INDICATE IT IS NECESSARY, INSPECT FOR ACCUMULATION OF SEDIMENT, DAMAGE TO OUTLET
- CONTROL STRUCTURES, EROSION, SIGNS OF WATER CONTAMINATION/SPILLS, AND INSTABILITY. LEAF LITTER NEEDS TO BE REMOVED ANNUALLY. AS NEEDED, REMOVE ACCUMULATED SEDIMENT AS REQUIRED TO MAINTAIN INFILTRATION THROUGH THE MRCS SOIL MEDIA AND TO MAINTAIN WATER QUALITY FUNCTIONALITY.
- RESTORE ORIGINAL CROSS SECTION. PROPERLY DISPOSE OF SEDIMENT. • IF POROUS PAVEMENT IS INCLUDED IN THE DESIGN, VACUUM AT LEAST TWICE PER YEAR. VACUUM SHOULD HAVE SUFFICIENT SUCTION POWER AND BE DESIGNED FOR USE

HOMEOWNER'S ASSOCIATION SHALL ENSURE THAT ESCROW FUNDS ARE AVAILABLE FOR REPLACEMENT DURING THIS TIME PERIOD. TREES SHALL BE MAINTAINED AND

- . ALL MRC BMP COMPONENTS SHOULD BE MAINTAINED AS INDICATED IN THE STORMWATER BMP MANUAL.
- TREE PLANTINGS

   TREES SHALL BE PLANTED IN ACCORDANCE WITH SPECIFICATIONS PREPARED BY THE PROJECT LANDSCAPE ARCHITECT. . NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF FIVE YEARS FOLLOWING CONSTRUCTION.THE
- PROTECTED FOR THE PROJECT LIFE (50 YEARS). TREES SHALL BE INSPECTED ANNUALLY AND PRUNED AS NEEDED TO ENSURE HEALTHY CONDITIONS. • IF IT IS DETERMINED THAT THE TREE IS IN POOR HEALTH, A CERTIFIED ARBORIST SHALL BE CONSULTED IMMEDIATELY TO DETERMINE THE PROPER COURSE OF ACTION.

SEED IN ERNST SEED MIX (ERNMX-180); RAIN GARDEN AREA MIX SEEDING RATE IS 20 LBS. PER ACRE WITH 30 LBS. PER ACRE GRAIN RYE (COVER CROP)

ERNMX-180 RAIN GARDEN AREA MIX

26% River Oats, PA/VA Ecotype blend (Chasmanthium latifolium (Uniola latifolia), PA/VA Ecotype blend) 17% Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype)

15% Fowl Bluegrass (Poa palustris) 10% Fox Sedge, PA Ecotype (Carex vulpinoidea, PA Ecotype)

6% Purple Coneflower (Echinacea purpurea) 4% Blackeyed Susan, Coastal Plain NC Ecotype (Rudbeckia hirta, Coastal Plain NC Ecotype) 3% Zigzag Aster, PA Ecotype (Aster prenanthoides (Symphyotrichum p.), PA Ecotype)

3% Blue False Indigo, Southern WV Ecotype (Baptisia australis, Southern WV Ecotype) 3% Ohio Spiderwort, PA Ecotype (Tradescantia ohiensis, PA Ecotype)

2% Lanceleaf Coreopsis, Coastal Plain NC Ecotype (Coreopsis lanceolata, Coastal Plain NC Ecotype) 2% Wild Bergamot, PA Ecotype (Monarda fistulosa, PA Ecotype) 2% Wild Senna, VA & WV Ecotype (Senna hebecarpa (Cassia h.), VA & WV Ecotype)

2% Autumn Bentgrass, PA Ecotype (Agrostis perennans, PA Ecotype) 2% Marsh (Dense) Blazing Star (Spiked Gayfeather), PA Ecotype (Liatris spicata, PA Ecotype)

1% Early Goldenrod, PA Ecotype (Solidago juncea, PA Ecotype) 1% Oxeye Sunflower, PA Ecotype (Heliopsis helianthoides, PA Ecotype) 1% Swamp Milkweed, PA Ecotype (Asclepias incarnata, PA Ecotype)

# BASIN LANDSCAPE MAINTENANCE

THIS BASIN IS DESIGNED TO BECOME NATURALIZED OVER TIME AND WILL REQUIRE LESS MAINTENANCE AS TIME

MOWING - ESTABLISH AND MAINTAIN A NO-MOW ZONE THAT ENCOMPASSES THE BASIN FLOOR AND SIDE SLOPES. MOW THE NO-MOW ZONE 1X/YEAR TO A MINIMUM HEIGHT OF 6". (ANNUALLY IN LATE APRIL/ EARLY MAY). RAKE

MOWN MATERIAL AND COMPOST OR DISPOSE OF OFF SITE. INSPECTIONS - INSPECT BASIN AND NO-MOW ZONES FOR INVASIVE SPECIES SUCH AS PURPLE LOOSESTRIFE PHRAGMITES, HONEYSUCKLE, ETC. (ANNUALLY IN JULY). IF INVASIVE SPECIES ARE FOUND REMOVE PER RECOMMENDED STANDARDS FOR SPECIFIC SPECIES FOLLOWING GUIDELINES BY PA DCNR (DEPT OF CONSERVATION & NATURAL RESOURCES).

CLEANING - REMOVE TRASH AND DEBRIS (JANUARY & APRIL)

# BASIN MAINTENANCE SCHEDULE

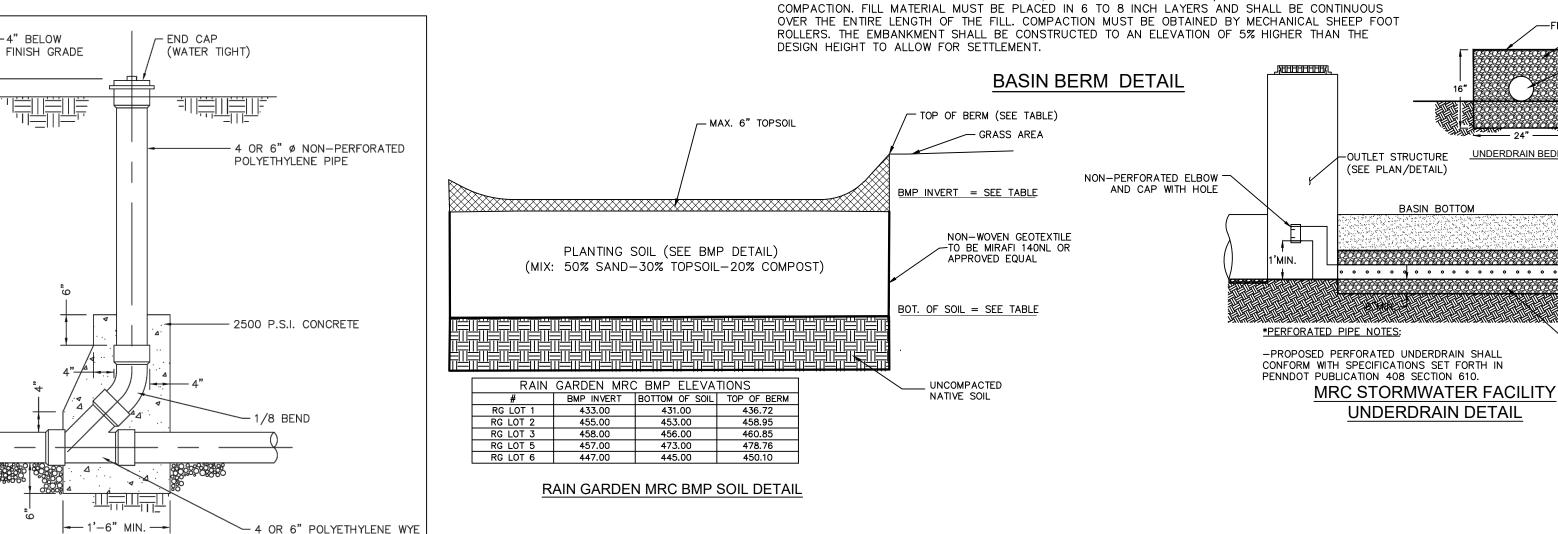
THIS BASIN IS DESIGNED TO BECOME NATURALIZED OVER TIME AND WILL REQUIRE LESS MAINTENANCE AS TIME GOES ON.

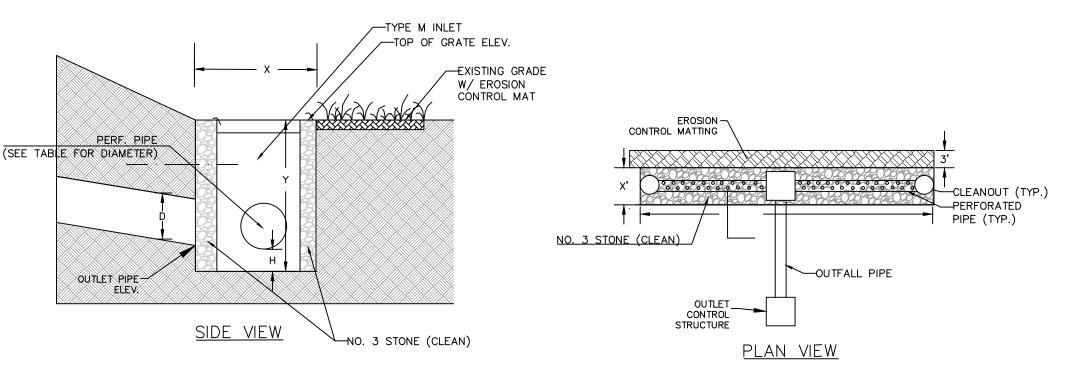
MOWING - ESTABLISH AND MAINTAIN A NO-MOW ZONE THAT ENCOMPASSES THE BASIN FLOOR AND SIDE SLOPES. MOW THE NO-MOW ZONE 1X/YEAR TO A MINIMUM HEIGHT OF 2. CUT OFF TRENCH - A CUT-OFF TRENCH WILL BE EXCAVATED ALONG THE BERM CENTERLINE BENEATH 6". (ANNUALLY IN LATE APRIL/ EARLY MAY).

INSPECTIONS - INSPECT BASIN AND NO-MOW ZONES FOR INVASIVE SPECIES SUCH AS PURPLE LOOSESTRIFE, PHRAGMITES, HONEYSUCKLE, ETC. (ANNUALLY IN JULY). IF INVASIVE SPECIES ARE FOUND REMOVE PER RECOMMENDED STANDARDS FOR SPECIFIC SPECIES FOLLOWING GUIDELINES BY PA DCNR (DEPT OF CONSERVATION & NATURAL RESOURCES). CLEANING - REMOVE TRASH AND DEBRIS (JANUARY & APRIL) OR AS NEEDED.

NON-PERFORATED

STANDARD CLEANOUT INSTALLATION DETAIL

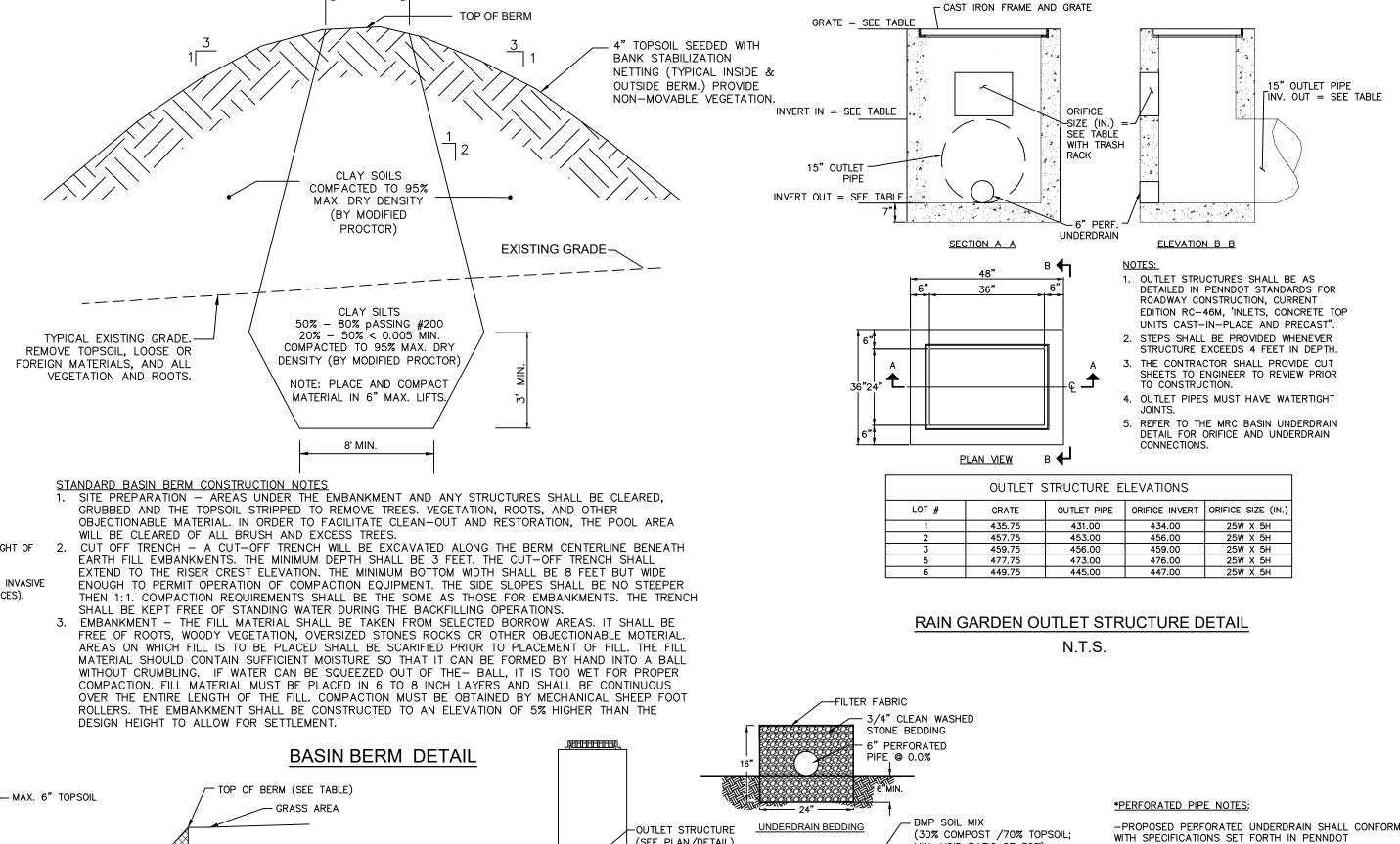


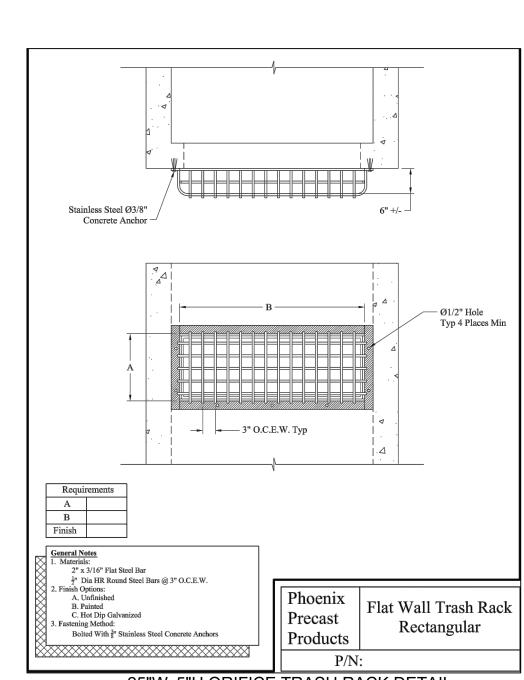


SWF OUTFALL	L	D	OUTFALL PIPE ELEV.	TOP OF GRATE ELEV.	PERF. PIPE DIAMETER	н	Y	×
#	FT	IN			IN	FT	FT	FT
LOT 1	10	15	428.50	431.00	12	0.50	3.00	5.00
LOT 2	10	15	449.50	452.00	12	0.50	3.00	5.00
LOT 3	10	15	453.50	456.00	12	0.50	3.00	5.00
LOT 5	10	15	471.00	473.50	12	0.50	3.00	5.00
LOT 6	10	15	439.50	443.00	12	0.50	4.00	5.00

- CONSTRUCTION SEQUENCE FOR LEVEL SPREADER:

  1. INSTALL AND MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AS PER THE PENNSYLVANIA EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (MARCH 2000, OR LATEST EDITION). 2. EXCAVATE LEVEL SPREADER BOTTOM TO A UNIFORM, LEVEL SUBGRADE FREE FROM ROCKS AND DEBRIS. EXCAVATION EQUIPMENT SHOULD BE PLACED
- OUTSIDE THE LIMITS OF THE LEVEL SPREADER. 3. COMPLETELY WRAP LEVEL SPREADER WITH NONWOVEN GEOTEXTILE. (IF SEDIMENT AND/OR DEBRIS HAVE ACCUMULATED IN LEVEL SPREADER BOTTOM, REMOVE PRIOR TO GEOTEXTILE PLACEMENT.) GEOTEXTILE ROLLS SHOULD OVERLAP BY A MINIMUM OF 24 INCHES WITHIN THE TRENCH. FOLD BACK AND/OR CUT EXCESS GEOTEXTILE DURING STONE PLACEMENT.
- 4. INSTALL CONTINUOUSLY PERFORATED PIPE, OBSERVATION WELLS/INLETS, AND ALL OTHER LEVEL SPREADER STRUCTURES. CONNECT INCOMING PIPES TO STRUCTURES AS INDICATED ON PLANS. 5. PLACE UNIFORMLY GRADED. CLEAN-WASHED AGGREGATE IN 6-INCH LIFTS. LIGHTLY COMPACTING BETWEEN LIFTS.
- INSTALL EROSION CONTROL BLANKET DOWNSTREAM OF LEVEL SPREADER AND SECURE AS PER MANUFACTURER'S RECOMMENDATIONS. DO NOT REMOVE EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED. LEVEL SPEADER





MIN. VOID RATIO OF 30%)

SUBSURFACE DRAINAGE

OF UNDERDRAIN)

PIPE @ 0.0%\*

- UNCOMPACTED

— 6"MIN. STONE ENVELOPE

AROUND THE UNDERDRAIN.

(3/4" GRAVEL WRAPPED

IN FILTER FABRIC FOR

SUBSURFACE DRAINAGE:

16" DEPTH & 24" WIDE

WHERE UNDERDRAIN SHOWN

NATIVE SOIL

(MIN. 13" DEPTH ABOVE THE TOP

NON-WOVEN GEOTEXTILE FOR

PUBLICATION 408 SECTION 610.

(MIRAFI 140NL OR APPROVED EQUAL) LOT #2 PIPE INVERT ELEVATION: 453.00

LOT #1 PIPE INVERT ELEVATION: 431.00

LOT #1 OUTLET HOLE SIZE: 0.70-INCHES

LOT #1 OUTLET HOLE ELEVATION: 432.00

LOT #2 OUTLET HOLE SIZE: 0.90-INCHES LOT #2 OUTLET HOLE ELEVATION: 454.00

LOT #3 PIPE INVERT ELEVATION: 456.00

LOT #3 OUTLET HOLE SIZE: 2-INCH LOT #3 OUTLET HOLE ELEVATION: 457.00

LOT #6 PIPE INVERT ELEVATION: 445.00

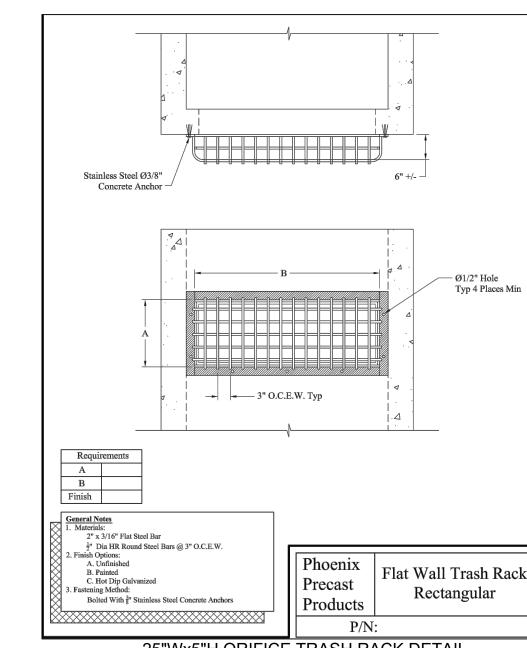
\_OT #6 OUTLET HOLE ELEVATION: 446.00

LOT #6 OUTLET HOLE SIZE: 0.80-INCH

T #5 PIPE INVERT ELEVATION: 473.00

5 OUTLET HOLE ELEVATION: 474.00

25"Wx5"H ORIFICE TRASH RACK DETAIL OR APPROVED EQUAL



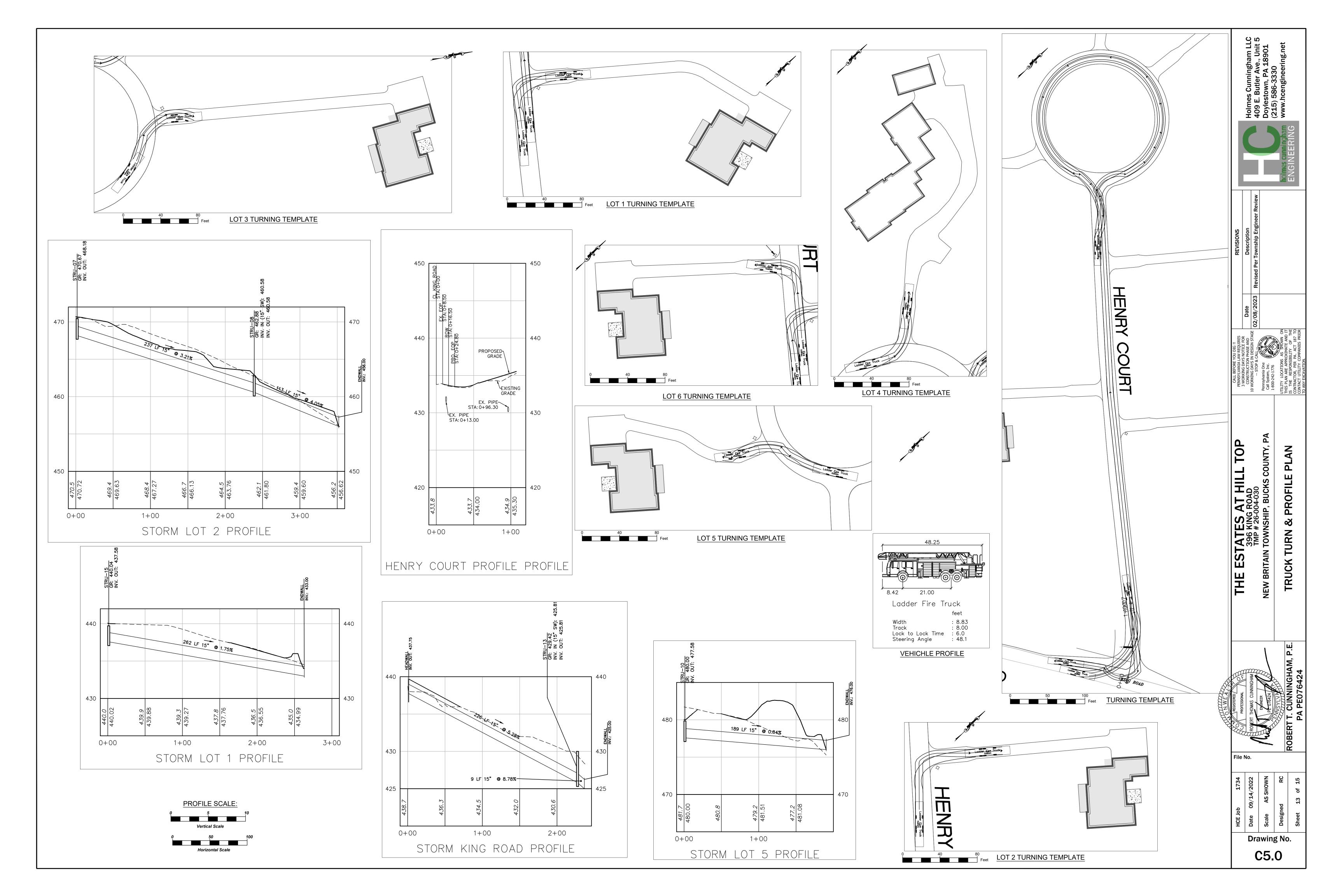
STORM\
DETAILS

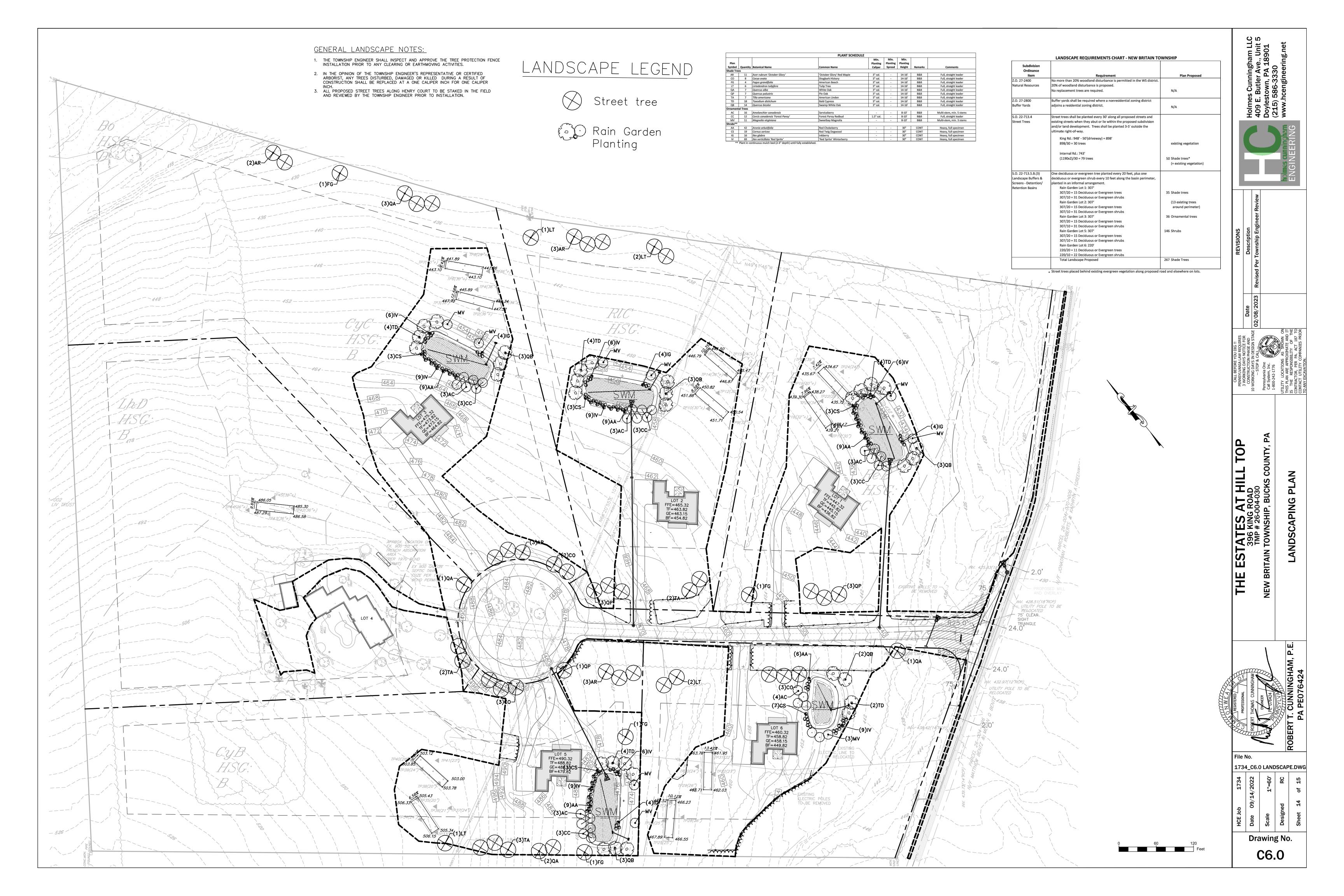
MAT

POS

1734\_C4.0 PCSM.DWG

Drawing No.





# PLANTING MATERIALS

- NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE.
- STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK". PUBLISHED BY THE AMERICAN ASSOCIATION OF

NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE

HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION.

- 3. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING. PLANT MATERIAL OF THE SAME 15% Fowl Bluegrass (Poa palustris) SPECIES AND SPECIFIED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.
- 4. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.
- 5. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE. AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.

- 1. REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND SPECIFICATIONS
- SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR CONTAMINATED SITES.
- 3. IF DEPTH OF PLANTING SOILS AND TOPSOIL IS NOT INDICATED IN PLANS OR DETAILS, A MINIMUM 18" DEPTH SHALL BE PROVIDED FOR ALL TREES AND LARGE SHRUBS; MINIMUM 12" DEPTH SHALL BE PROVIDED FOR GROUNDCOVERS, HERBACEOUS AND MEADOW OR ORNAMENTAL GRASS AREAS AND A MINIMUM 6" LAYER SHALL BE INSTALLED IN ALL LAWN SIDE SLOPE AREA = 3,690 SF AREAS. TOPSOIL AND PLANTING SOIL DEPTH INDICATED ON PLANS AND PLANTING DETAILS AND NARRATIVE SPECIFICATIONS SHALL GOVERN DEPTH WHEN PROVIDED.
- 4. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC CONTENT LESS THAN 2%) OVER WHICH TOPSOIL AND PLANTING SOILS WILL BE PLACED AT DEPTHS INDICATED IN PLANS, DETAILS
- 5. IF THE QUANTITY OF SOILS FROM THE SITE IS NOT ADEQUATE TO FILL PLANTING AREAS TO THE DEPTH INDICATED IN THE PLANS AND DETAILS, CONTRACTOR SHALL FURNISH PLANTING SOILS THAT ARE FREE OF BROKEN GLASS, PAINT CHIPS, PLASTIC, DELETERIOUS MATERIALS, ROOTS, WEEDS, BOULDERS, COBBLES AND GRAVEL OVER 1" IN DIAMETER AND COMPLY WITH THE FOLLOWING CRITERIA: -SOILS SHALL MEET ALL APPLICABLE SOIL REMEDIATION STANDARDS
  -ORGANIC CONTENT: 2-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS -SOLUBLE SALTS: LESS THAN 0.5 MM HOS/CM -SOIL PH: 4.5-7% TO BE AMENDED PER SOIL TEST RESULTS
- -PHYSICAL (SIEVE) ANALYSIS/ SOIL TEXTURE SAND: 40-60% SILT: 25-60% CLAY: 5-20% -NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE.
- 6. ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED. BY ADDING AMENDMENTS. THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SITE.
- 7. IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER, ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8; MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE; SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM; MEETING ALL APPLICABLE ENVIRONMENTAL CRITERIA FOR CLEAN FILL; FREE OF BROKEN GLASS, PAINT CHIPS, PLASTIC, DELETERIOUS MATERIALS, ROOTS, WEEDS, BOULDERS, COBBLES AND GRAVEL OVER 1" IN DIAMETER
- 8. SCARIFY AND/OR TILL ALL COMPACTED SUBSOILS PRIOR TO ADDING PLANTING SOIL OR LOOSELY COMPACTED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.

# DELIVERY, STORAGE, AND HANDLING

- 1 PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER, MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING DELIVERY, AND WHILE STORED AT SITE.
- TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING TRANSIT. DO NOT DROP OR BREAK BALLED STOCK DURING DELIVERY OR HANDLING.
- 3. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT BALL WRAPPING AND BINDING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF PLANTING, IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET SHALL BE CUT AND FOLDED DOWN 8" INTO THE PLANTING HOLE. WITH CONTAINER-GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO
- 4. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY. THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

# INSTALLATION

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE.
- 2. THE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.
- 3. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE FINISHED GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT
- 4. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND UNEVEN SURFACES PRIOR TO PLANTING OR MULCHING
- 5. ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS, NOTES AND CONTRACT SPECIFICATIONS. THE LANDSCAPE ARCHITECT MAY REVIEW INSTALLATION AND MAINTENANCE PROCEDURES.
- 6. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.
- 7. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE COMPLETELY REMOVED AND THE BURLAP SHOULD BE PULLED DOWN SO 1/3 OF THE ROOT BALL IS EXPOSED. SYNTHETIC BURLAP SHOULD BE COMPLETELY REMÓVED AFTER INSTALLATION
- 8. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT
- 9. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.
- 10. AFTER COMPLETION OF A PROJECT, ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A SHREDDED HARDWOOD BARK OR APPROVED EQUAL MULCH THAT WILL PREVENT SOIL EROSION AND THE

# GUARANTEE

1. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF 18 MONTHS FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

# BMP SEEDING

BASIN FLOORS (FOR STORMWATER FACILITIES 1&2) SEED IN ERNST SEED MIX (ERNMX-180); RAIN GARDEN AREA MIX SEEDING RATE IS 20 LBS. PER ACRE WITH 30 LBS. PER ACRE GRAIN RYE (COVER CROP) BASIN FLOOR = 8,000 SF

### $(4865/43560) \times 20 = 2.5 LBS. ERNMX-180$ $(4865/43560) \times 30 = 3.5 LBS. GRAIN RYE$

ERNMX-180 RAIN GARDEN AREA MIX 26% River Oats, PA/VA Ecotype blend (Chasmanthium latifolium (Uniola latifolia), PA/VA Ecotype blend) 17% Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype)

10% Fox Sedge, PA Ecotype (Carex vulpinoidea, PA Ecotype)

6% Purple Coneflower (Echinacea purpurea) 4% Blackeyed Susan, Coastal Plain NC Ecotype (Rudbeckia hirta, Coastal Plain NC Ecotype) 3% Zigzag Aster, PA Ecotype (Aster prenanthoides (Symphyotrichum p.), PA Ecotype) 3% Blue False Indigo, Southern WV Ecotype (Baptisia australis, Southern WV Ecotype)

3% Ohio Spiderwort, PA Ecotype (Tradescantia ohiensis, PA Ecotype) 2% Lanceleaf Coreopsis, Coastal Plain NC Ecotype (Coreopsis lanceolata, Coastal Plain NC Ecotype) 2% Wild Bergamot, PA Ecotype (Monarda fistulosa, PA Ecotype)

2% Wild Senna, VA & WV Ecotype (Senna hebecarpa (Cassia h.), VA & WV Ecotype) 2% Autumn Bentgrass, PA Ecotype (Agrostis perennans, PA Ecotype) 2% Marsh (Dense) Blazing Star (Spiked Gayfeather), PA Ecotype (Liatris spicata, PA Ecotype)

1% Early Goldenrod, PA Ecotype (Solidago juncea, PA Ecotype) 1% Oxeye Sunflower, PA Ecotype (Heliopsis helianthoides, PA Ecotype)

DETENTION BASIN & SIDE SLOPE SEEDING

1% Swamp Milkweed, PA Ecotype (Asclepias incarnata, PA Ecotype)

SEED IN ERNST SEED MIX (ERNMX-180); RAIN GARDEN AREA MIX SEEDING RATE IS 20 LBS. PER ACRE WITH 30 LBS. PER ACRE GRAIN RYE (COVER CROP) BASIN FLOOR = 4.865 SF

 $(4865/43560) \times 20 = 2.5 LBS. ERNMX-180$  $(4865/43560) \times 30 = 3.5 LBS. GRAIN RYE$ 

# BASIN SIDE SLOPES

SEED IN ERNST SEED MIX (ERNMX-181): NATIVE STEEP SLOPE MIX W/ ANNUAL RYEGRASS SEEDING RATE IS 60 LBS. PER ACRE

 $(3690/43560) \times 60 = 5.0 LBS. ERNMX-181$ 

ERNMX-181 NATIVE STEEP SLOPE MIX W/ ANNUAL RYEGRASS

20% Annual Ryegrass (Lolium multiflorum (L. perenne var. italicum)) 18% Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype)

15% Purpletop (Tridens flavus) 12% Creeping Red Fescue (Festuca rubra) 12% Indiangrass, 'Prairie View'-IN Ecotype (Sorghastrum nutans, 'Prairie View'-IN Ecotype)

5% Big Bluestem, 'Southlow'-MI Ecotype (Andropogon gerardii, 'Southlow'-MI Ecotype) 4% Autumn Bentgrass, Albany Pine Bush-NY Ecotype (Agrostis perennans, Albany Pine Bush-NY Ecotype) 4% Ticklegrass (Rough Bentgrass), PA Ecotype (Agrostis scabra, PA Ecotype) 2% Partridge Pea, PA Ecotype (Chamaecrista fasciculata (Cassia f.), PA Ecotype)

2% Purple Coneflower (Echinacea purpurea) 2% Blackeved Susan (Rudbeckia hirta)

1% Marsh (Dense) Blazing Star (Spiked Gayfeather), PA Ecotype (Liatris spicata, PA Ecotype) 1% Oxeye Sunflower, PA Ecotype (Heliopsis helianthoides, PA Ecotype) 1% Lanceleaf Coreopsis, Coastal Plain NC Ecotype (Coreopsis lanceolata, Coastal Plain NC Ecotype) 1% Wild Bergamot (Monarda fistulosa)

# BASIN LANDSCAPE MAINTENANCE

THIS BASIN IS DESIGNED TO BECOME NATURALIZED OVER TIME AND WILL REQUIRE LESS MAINTENANCE AS TIME GOES ON.

MOWING - ESTABLISH AND MAINTAIN A NO-MOW ZONE THAT ENCOMPASSES THE BASIN FLOOR AND SIDE SLOPES. MOW THE NO-MOW ZONE 1X/YEAR TO A MINIMUM HEIGHT OF 6". (ANNUALLY IN LATE APRIL/ EARLY MAY). RAKE MOWN MATERIAL AND COMPOST OR DISPOSE OF OFF SITE.

INSPECTIONS - INSPECT BASIN AND NO-MOW ZONES FOR INVASIVE SPECIES SUCH AS PURPLE LOOSESTRIFE, PHRAGMITES, HONEYSUCKLE, ETC. (ANNUALLY IN JULY). IF INVASIVE SPECIES ARE FOUND REMOVE PER RECOMMENDED STANDARDS FOR SPECIFIC SPECIES FOLLOWING GUIDELINES BY PA DCNR (DEPT OF CONSERVATION & NATURAL RESOURCES).

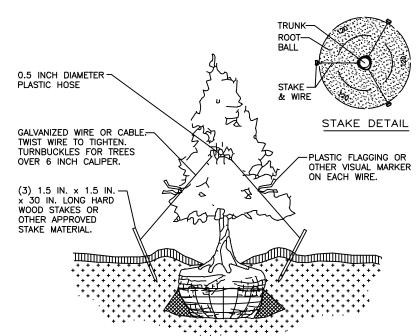
CLEANING - REMOVE TRASH AND DEBRIS (JANUARY & APRIL)

# LAWN SEED NOTES:

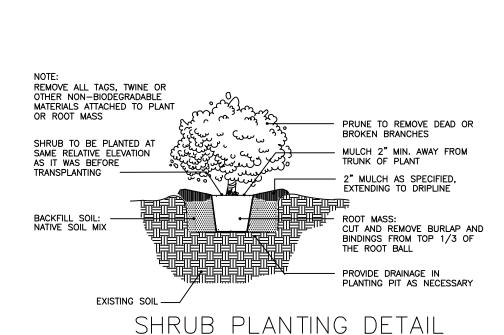
- 1. PRIOR TO SEEDING, AREA IS TO BE TOPSOILED, FINE GRADED, AND RAKED OF ALL DEBRIS LARGER THAN 2" DIAMETER.
- THE FOLLOWING SEED MIX SHALL BE SOWN AT THE RATES AS DEPICTED: 1 1/2 LBS./1,000 SF
- RED FESCUE PERENNIAL RYEGRASS KENTUCKY BLUEGRASS
  - 1 LBS./1,000 SF 1 1/2 LBS./1,000 SF
- SPREADING FESCUE 1 LBS./1,000 SF
- SEED MIX SHALL BE MULCHED WITH SALT HAY OR UNROTTED SMALL GRAIN STRAW AT A RATE OF 2 TONS/AC OR 90 LBS/1,000 SF
- 4. SEEDING DATES FOR THIS MIXTURE SHALL BE AS FOLLOWS:
- SPRING: APRIL 1 MAY 31 FALL: AUGUST 16 - OCTOBER 31
- 5. GERMINATION RATES WILL VARY AS TO TIME OF YEAR FOR SOWING. CONTRACTOR TO IRRIGATE SEEDED AREA UNTIL AN ACCEPTABLE STAND OF COVER IS ESTABLISHED BY OWNER.

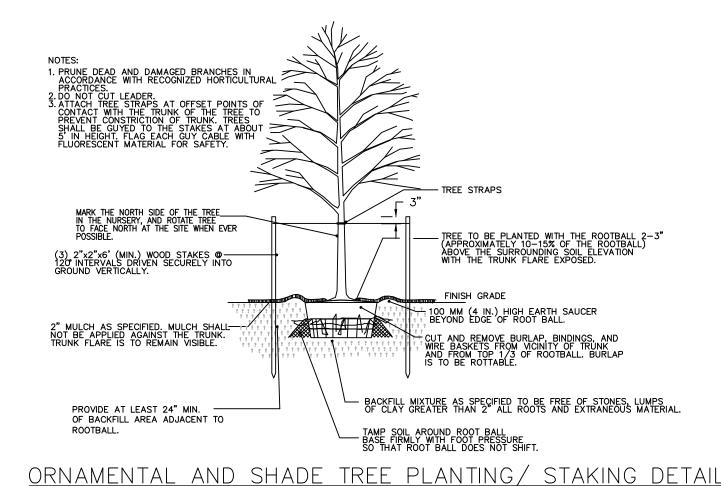
# TREE PROTECTION NOTES:

- 1. ALL EXISTING SHADE TREES WITHIN THE LIMITS OF TREE PROTECTION FENCING AND AS DIRECTED BY THE LANDSCAPE ARCHITECT SHALL BE PROTECTED THROUGHOUT THE DURATION
- 2. DEMOLITION AND GRADING WORK ADJACENT TO PROTECTED TREES SHALL BE PERFORMED BY A QUALIFIED PERSON WITH A MINIMUM OF FIVE (5) YEARS EXPERIENCE IN WORKING WITH EXCAVATION EQUIPMENT. CONTRACTOR TO PROTECT ROOT MASS AGAINST DAMAGE DURING EXCAVATION. ANY TREE ROOTS THAT ARE DISTURBED, BROKEN OR CUT SHALL BE PRUNED BACK WITH CLEAN SHARP TOOLS.
- 3. TO MINIMIZE DISTURBANCE OF VEGETATION TO REMAIN, ALL TREE STUMPS TO BE REMOVED WITHIN 10' OF TREE PROTECTION FENCE SHALL BE REMILLED USING A STUMP GRINDER.
- 4. ALL EXPOSED TREE ROOTS SHALL BE THOROUGHLY IRRIGATED ON A DAILY BASIS UNTIL BACKFILLING CAN OCCUR AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.
- 5. ALL WORK TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER THE OWNER'S REPRESENTATIVE OR PROJECT LANDSCAPE ARCHITECT. NOTIFY OWNER A MINIMUM OF 48 HOURS PRIOR TO ANY EARTHWORK / EXCAVATION WORK.



- 1. ALL STAKES SHALL BE DRIVEN OUTSIDE THE EDGE OF THE ROOT BALL. 2. ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM 0.5 INCH. 3. REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVER-COME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON.
- WIRE OR CABLE SIZES SHALL BE AS FOLLOWS: TREES UP TO 2.5 INCH CALIPER 14 GAUGE TREES 2.5 INCH TO 3 INCH CALIPER 12 GAUGE TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 1.5 INCH CALIPER OF TRUNK MOVEMENT.
- TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED. EVERGREEN TREE STAKING DETAIL







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1734\_C6.0 LANDSCAPE.DWG Drawing No.



March 14, 2023

File No. 22-05077

Matt West, Township Manager New Britain Township 207 Park Avenue Chalfont, PA 18914

Reference: 396 King Road, "The Estates at Hill Top" Preliminary Plan Review 2

Joe Casadonti, T.M.P. #26-004-030

### Dear Matt:

Pursuant to your request, Gilmore & Associates, Inc. has reviewed the revised Preliminary Plan submission for the above-referenced project and offers the following comments for consideration:

### Submission

- A. Preliminary and Final Land Development and Major Subdivision Plans for The Estates at Hill Top, as prepared by Holmes Cunningham, LLC, consisting of fifteen (15) sheets, dated September 14, 2022, last revised February 8, 2023.
- B. Post Construction Stormwater Management Plan Narrative for The Estates at Hill Top, as prepared by Holmes Cunningham, LLC, dated September 14, 2022, last revised February 9, 2023.
- C. The Estates at Hill Top Waiver Request Letter, as prepared by Holmes Cunningham, LLC, dated September 22, 2022, last revised February 8, 2023.
- D. Wetland Investigation Report by VW Consultants, LLC, dated February 10, 2023

### II. General Information

The 36.1-acre subject tract is located at 396 King Road (T-407) within the Watershed Zoning District. The site currently consists of a single-family dwelling amidst various natural resources and agricultural land. The Applicant proposes to subdivide the property into six (6) single-family dwelling lots (Use B1) which is permitted by right with a +/-740'-long private street, Henry Court. The existing single-family dwelling is proposed to remain on Lot 4. The lots are proposed to have on-lot well and septic systems, with individual rain gardens for each new dwelling lot. Widening and storm sewer improvements are proposed along King Road.

### III. Review Comments

### A. Zoning Ordinance

We have identified the following comments with the proposed plan regarding the requirements and provisions of the current New Britain Township Zoning Ordinance:

- 1. §27-502.b.3. & 505.1 Natural resource protection land, such as watercourses, agricultural soils, woodlands, and steep slopes are proposed to be protected and preserved on each site through a conservation easement on each lot. We offer the following comments related to the proposed conservation easements.
  - a. The area of each conservation easement on each lot shall be noted on the Record Site Plan and metes and bounds provided.

- b. The plan notes that all areas located outside of the limits of disturbance are to remain as existing cover. These areas include agricultural soils which are required to be protected and not permitted to be disturbed. The applicant shall discuss if the farming use is proposed to be continued and if the Easement Agreement allows for change in ground cover.
- c. We recommend the Easement Agreement indicate that the purpose of the conservation easements is for the protection and maintenance of the natural resources and allows New Britain Township to access the easements for inspection and emergency repair/maintenance should the property owner fail to honor their maintenance responsibility. (§22-712.A.(3)&(4)).
- 2. §27-502.b.5. When an applicant is proposing a land development, the stormwater management facilities shall be designed to manage the runoff from the maximum impervious surface permitted for the entire site. The Runoff Coefficient calculations for PR-1 through 6 appear to account for 3.84 acres of impervious. Based on a Ratio Base Site Area of 30.04 acres for the 6 lots and approximately 0.62 acres of impervious for the Henry Court and the widening along King Road, the stormwater management systems shall be designed to manage a total of 4.22 acres of impervious. The total impervious considered in the stormwater design shall be tabulated on the plans and the stormwater report revised to manage the maximum impervious.
- 3. §27-2400.4.i. For major subdivisions, replanting of the riparian corridor is required where there is little or no existing streamside vegetation and in accordance with this section. An evaluation of the existing vegetation along the stream shall be provided to determine if any revegetation is required or else a site meeting scheduled with our office to review the vegetation. Based on Sheet 4 of 15, there is an area of riparian corridor on Lot 6 that does not have existing vegetation. Ground cover is required along with trees at a rate of one overstory tree and three shrubs for every 20 feet of waterway.

### B. Subdivision and Land Development Ordinance Waivers

The following waivers from the Subdivision and Land Development Ordinance have been formally requested by the Applicant in a letter dated September 22, 2022, last revised February 8, 2023:

- 1. §22-403 & 404 From providing separate preliminary and final plan submissions.
- 2. §22-502.D From the requirement to show existing features within 100 feet of the tract boundary conditioned on providing an aerial map and any additional information requested by the Township Engineer, which we support.
- 3. §22-502.1.H From providing a lighting plan, which we support.
- 4. §22-703.4.C From the requirement that lot lines shall be drawn parallel, concentric, at right angles or radial to the street right-of-way line. Several lot lines are not perpendicular or radial to the Henry Court right-of-way line.
- 5. §22-705.3.C From constructing full width road improvements along King Road, a minor collector road which requires a 60-foot ultimate right-of-way and 36-foot cartway. The waiver request letter shall be revised to include this waiver. We recommend a waiver to allow partial widening along King Road of 2 ft of widening where 10 ft is required, with the following conditions:
  - a. A 30-foot ultimate right-of-way along King Road offered as an easement to the Township.
  - b. As noted on the Record Plan, Site Plan Note 16, all dead trees, live trees and branches interfering with the existing overhead lines removed within the proposed King Road U.R.O.W.
  - c. As noted on the Existing Features plan, 2 utility poles relocated near the proposed entrance.
  - d. As shown, the entrance culvert replaced with a minimum 15" diameter pipe.
  - e. Based on a site visit, there are areas of erosion along the watercourse on both Lots 1 and 6. We recommend any areas of erosion be stabilized, down trees removed from the watercourse, and any associated permits obtained from PADEP, as required.

- 6. §22-705.3.E From the requirement to design private streets to the specifications of a local street related to cartway width. A 20-foot private street is proposed where a 28-foot-cartway is required. We support a waiver conditioned on approval of the truck-turning templates by the Fire Marshal.
- 7. §22-705.3.G From providing a 1 ½-inch mill and overlay of King Road along the subdivision. The plan currently proposes 2 feet of widening along the King Road frontage. Based on a discussion with the Public Works Superintendent, the road was originally a dirt road tar and chipped over the years and, therefore, we do not recommend a waiver. We would support a partial waiver from milling King Road, with the condition that a leveling course be installed along with 1 ½ of wearing course. We recommend that the developer document the existing road conditions prior to construction.
- 8. §22-705.8.C. From providing a left-side turnaround configuration for the cul-de-sac with a minimum right-of-way radius of 60 feet and a minimum paving radius of 50 feet. The plan proposes a 20-foot-wide loop road at the end of the access road, which we support.
- 9. §22-705.8.F. From providing a 15-foot by 20-foot snow storage easement along the right-of-way of the cul-de-sac bulb, which we support.
- 10. <u>§22-706</u> From providing curb and sidewalk along the property frontage of King Road and the proposed private street, which we support.
- 11. §22-707.A From providing pedestrian walkways or recreational trails at locations deemed necessary by the Board, which we support. Due to existing utilities, topography, and natural resources, it appears that the opposite side of King Road may be the better location for any future trail.
- 12. §22-713.4.B From the requirement that street trees be planted between three and five feet outside the ultimate right-of-way line and in an informal arrangement when approved by the Board. In addition, the waiver request should be revised to include a partial waiver from §22-713.4.A. to allow existing trees to partially satisfy the street tree requirement. The Applicant proposes to supplement the existing vegetation with an additional 50 trees. We support this waiver.
- 13. §22-714.3.A From providing streetlights at the intersection and turnaround. We support this waiver conditioned on the lamp posts being installed as shown on the plan.
- 14. Resolution 2007-12 For any public improvement waivers granted, the Applicant is required to contribute a fee to the Township to cover 50% of the cost of future improvements to bring Township rights-of-way up to current standards. Based on the current waivers requested, this contribution would be required for partial road widening, curb, sidewalk, streetlighting, etc., if granted. If waived, a cost estimate of the required improvements above with credit for the road improvements to be installed shall be submitted for review. We recommend this cost be estimated by the Applicant's Design Professional and submitted to our office for review prior to the Board of Supervisors taking action on the plans.

### C. Subdivision and Land Development Ordinance

We have identified the following issues with the proposed plan regarding the requirements and provisions of the current Subdivision and Land Development Ordinance (SALDO):

- 1. §22-406.1 The Applicant is responsible for any other required reviews, approvals, permits, etc. (i.e., BCPC, BCCD, PADEP, Fire Marshal, Township Road Opening Permit, Well Construction Permits, etc.) as applicable.
- 2. §22-502.A.(4) The following issues related to the property line and bearings and distances on the Record Site Plan shall be addressed:
  - a. The bearings and distances for the line at the southern end of the King Road Ultimate Right-of-way is cut off from the plan and shall be revised.

- b. The distance between the roadway centerline and the ultimate right-of-way of King Road shall be dimensioned on the plan.
- 3. §22-502.B. The following comments regarding plan notes/ presentation shall be addressed:
  - a. A wetland report has been provided indicating that no wetlands are present on the site. A signed wetlands certification shall be added to the Record Site Plan indicating the absence of wetlands on the site.
  - b. At several locations along the road, the ultimate right-of-way appears to be slightly less than the required 30 feet. The distance between the centerline of King Road and the ultimate right-of-way shall be dimensioned on the plan on either side of the proposed intersection with Henry Court.
  - c. Once the waivers and design are finalized, a plan view detail and cross-section detail shall clarify the proposed King Road improvements.
  - d. Several unidentified dashed and solid lines are shown on the Record Site Plan at the intersection of Henry Court and King Road. The existing storm sewer and notes related to the removal of the existing wall are shown on this plan as well. All unnecessary lines and notes should be removed from the Record Site Plan.
  - e. The erosion control matting shall be included in the legend on the E&S Plan.
  - f. The legend on the PCSWM Plan shall be revised to match the information on the plan.
- 4. §22-502.B.(11) Legal descriptions are required for the new lots, natural resource conservation easements, ultimate right-of-way easement for King Road, private access easement, defined stormwater easements, proposed utility easements, back up septic system easements and any other easements which may be proposed. All easements shall be labeled with metes and bounds.
- 5. §22-502.E(5), (8), & (9) The location, size and material of the sanitary sewer pipe, water supply lines and well locations shall be shown on the Grading, Drainage and Utility Plan to verify they do not conflict with any other proposed improvements.
- 6. §22-705.12. All proposed street names shall be reviewed by the Township Fire Marshal's office for duplication then approved by the Board of Supervisors. The Applicant shall formally request approval of the proposed street name from the Board of Supervisors.
- 7. §22-705.12.G We offer the following comments relative to signage:
  - a. The location of all traffic signage shall be shown on the Record Plan and signage details provided.
  - b. "No Parking" signs shall be provided along the private street to ensure adequate access is provided for emergency vehicles, delivery trucks, buses, and trash trucks.
- 8. §22-710 We defer to the Township Fire Marshal for review of the plans with respect to water supply, emergency access, etc.
- 9. §22-711.3 Erosion controls shall be provided for the following:
  - a. The plan notes that the existing driveway is to be used as a construction entrance. A note should be added, stating that if any mud or stone is tracked onto King Road, a full construction entrance shall be required. It appears that a construction entrance is required at the existing driveway to provide egress from Lots 3 and 5, unless the road is constructed first, in which case a construction entrance shall be provided for the roadwork.
  - b. for the replacement of the 36" RCP culvert pipe
  - c. for the installation of the culvert pipe and road widening along King Road
  - d. for the installation of the storm pipes from Henry Court to Lots 1 and 5

- e. along the northeastern side of Henry Court between Lot 1 and King Road to capture any sediment that bypasses the inlet during construction.
- 10. §22-711.3 The following comments related to grading shall be addressed:
  - a. Existing and proposed spot elevations should be provided for the connection between Henry Court and King Road to demonstrate adequate drainage at the intersection.
  - b. The proposed contours appear to direct runoff towards the dwellings on Lots 1 and 2. Spot elevations shall be provided at the corners of the dwellings and the contours revised as necessary to demonstrate drainage away from the dwelling.
  - c. The existing 438 contour is shown at the headwall for the culvert pipe along King Road with an invert elevation of 437.75. This will result in the pipe being exposed at this location. The grading should be revised to provide a minimum of 1 foot of cover over the pipe.
  - d. The proposed contour for the rain garden bottom at Lot 3 is listed at 456 and appears that it should be 458. The rain garden elevation should be clarified.
- 11. §22-713.2.A & B —The plan shows four existing trees and canopy to remain in the cul-de-sac area, however, grading is proposed which may impact the trees. If these trees die as a result of construction, they will be required to be replaced prior to the end of the maintenance period.
- 12. §22-713.5.B.(3) Multiple trees and shrubs are proposed on the downward slope of the rain garden embankment berms. The plant material shall be relocated to toe of slope.
- 13. §22-713.6.A The proposed trees for the rain gardens on Lots 1, 2, 5 and 6 shall be relocated to a minimum distance of 10 feet to all underground utilities, including storm sewer. In addition, plantings shall be relocated outside the existing cable easement.
- 14. §22-715.2.C.(1) Park and recreation land is required at a ratio of 2,500 square feet per new dwelling unit or 12,500 square feet. The land shall be dedicated to the Township or other entity as may be approved by the Board. A fee-in-lieu of park and recreation at a rate of \$2,500 per dwelling unit or \$12,500.00 for the 5 new dwellings may be provided at the Board's discretion.
- 15. §22-716 Concrete monuments shall be placed at all outbound existing property corners, at all proposed lot corners, including changes in direction of boundary, along the King Road ultimate right-of-way, along the private access easement, along all existing and proposed easements including conservation easements, defined stormwater or storm sewer easements, etc. Monumentation shall be provided in lieu of pins along the property lines, changes in horizontal direction, conservation easements, backup septic easements, existing easement, and along the King Road ultimate right-of-way.
- 16. §22-719.7.& 8. —The Applicant has submitted a Water Resource Impact Study to the Township. The Applicant shall comply with our Review Memo 1 dated March 1, 2023. We note that it shall be demonstrated that the proposed Lot 2 well will be able to meet the long-term yield.
- 17. §22-719.11. For subdivisions and/or land developments involving water supply wells, the applicant shall be required to enter into a Well Depletion Agreement as a condition of final plan approval and in accordance with sections §22-719.11.A-C. The approved Well Monitoring Program shall be attached to the Well Depletion Agreement.
- 18. <u>§22-721</u> Planning module approval is required to be obtained from the Pennsylvania Department of Environmental Protection (DEP). We recommend the Planning Commission and Board of Supervisors review the Planning Module submission and approve it at an upcoming meeting.
- 19. §22-721.7 The location of the well isolation area for Lot 4 shall be shown on the plans.
- 20. §22-721.8 The applicant shall provide to each lot owner a plan and specifications of the on-lot sewage disposal systems and all operational manuals required for the use and proper maintenance of the systems.

## D. <u>Stormwater Management Ordinance Comments</u>

We offer the following comments related to the Township's Stormwater Ordinance

- 1. §22-712.4 The Applicant proposes a new rain garden for each of the proposed lots. While the rain gardens aren't identified as detention basins, they are controlling the peak rates for stormwater runoff. We recommend a partial waiver from this section of the Ordinance related to detention basins, conditioned on the following:
  - a. §27-502.b.5 Per the above-noted Zoning comment, the rain gardens shall manage the maximum impervious permitted for the site in accordance with the Township's Stormwater Ordinance.
  - b. §22-712.4.A Though the plans identify the proposed stormwater facilities as rain gardens and not detention basins, the facilities are still detaining stormwater runoff. The emergency spillways are designed to the exact elevation of the 100 year storm. If the basins are not constructed to the design volume, this will result in discharge from the spillway and possibly an increase in the peak flows from the site. We recommend the spillway elevations be raised to provide freeboard.
- 2. §22-712.5.A All storm sewer systems shall provide the required capacity for the 100-year design storm based on the Rational Method. The following issues related to the pipe capacity calculations should be addressed:
  - a. The Culvert Report for the 36-inch pipe crossing under Henry Court notes a high-water elevation of 436.36. This is higher than embankment and will result in overflow across Henry Court which could damage the road. The pipe size should be increased or the grading around the pipe revised to prevent the flows to this culvert from overtopping the roadway.
  - b. The Storm Sewer Tabulation shall label the storm sewer structures to verify the data.
  - c. The Storm Sewer Tabulation models the 15" RCP along King Road with a drainage area of 0.20 acres. An offsite drainage area map shall be provided to verify the drainage area to this headwall.
  - d. The report models the pipe between Manhole Structure STR 13 and the endwall along King Road as a 15-inch pipe which shall be revised to an 18-inch pipe.
- 3. §22-712.6.A. All inlets to be utilized in a storm sewer system shall conform to the design standards of the most current PennDOT Publications 408 and 72. The inlet details reference PennDOT Pub 72M, RC-34. This should be revised to specify RC-46M.
- 4. §22-712.6.C. Inlet spacing in paved areas shall be arranged so a minimum of 80% of the gutter flow tributary to the inlet will be captured. Inlet capacity reports shall be provided for the inlets along Henry Court. Inlets STRU 07 and 15 along Henry Court shall be noted to be sumped to ensure they capture the design subdrainage area.
- 5. §22-712.8.D. Rock apron shall be placed at all headwalls and endwalls. The rip rap apron details on Sheet 10 only reference PRA-1 and PRA-2 for Lots 1 and 2. The 24-inch pipe size listed in the detail for PRA-1 is not consistent with the proposed pipe. Rip Rap apron details shall be provided for the discharge pipes on Lots 1 and 5, for the 36" RCP culvert crossing Henry Court, and the 18" RCP along King Road.
- 6. §22-712.12.A. All proposed driveways, where curbs and storm sewer are not required by the Board, shall have a culvert with flared end sections or endwalls. Runoff is proposed to be directed over the proposed driveways. Twenty-four (24) foot long 15" RCP culverts or concrete trench boxes with grates shall be provided.
- 7. §26-125.3 The time of concentration flow paths shall be shown on the drainage area plans and calculations provided in the report to verify the times used for the hydrographs.
- 8. §26-132 The following discrepancies with the stormwater management design and plans shall be addressed:

- a. The BMP Invert elevations listed in the Rain Garden MRC BMP Elevations table on Sheet 12 are inconsistent with the proposed contours shown on the Grading, Drainage and Utility Plan. The detail and proposed contours shall be revised to clarify this discrepancy.
- b. The level spreader on Lot 6 has a grate elevation of 446.00 which is 1 foot higher than the invert from the outlet structure and will result in a tailwater effect for this rain garden. The elevations and report shall be clarified.
- c. The Hydrograph for the proposed total undetained flows includes offsite flows (POS-5). Based on the drainage area map, a separate hydrograph shall be provided combining offsite flows with the flows from PR-5 Detained for the Lot 6 MRC Routing. The hydrographs shall be revised.
- 9. §26-164.1 The Applicant shall sign an Operation and Maintenance (O&M) agreement with the municipality covering all stormwater facilities and BMPs that are to be privately owned.
- 10. The Stormwater BMP Maintenance Fee applies to all proposed stormwater BMPs installed in the Township to provide a financial guarantee for the timely installation, proper construction and continued maintenance by the owner. The fee will be calculated once the engineer's estimate of probable cost is submitted and is based on 5% of the construction cost not to exceed \$10,000.00. (Township Resolution 2019-03)
- 11. §22-712.13.D & 2023 Fee Resolution The storm sewer fee for the development will be \$2.50 per linear foot of existing and proposed roads. Based on 948 feet of frontage on King Road and 743 feet along Henry Court, a fee of \$4,227.50 would be required.

### E. General Comments

 The bridges in the area may not support anticipated construction vehicle traffic on King Road near Swamp Road or on Keller Road. Chapman Road should not be accessed by heavy trucks due to the existing road width and condition. As a side note there have also been discussions regarding construction at the County bridge on King Road near Swamp Road.

If you have any questions regarding the above, please contact this office.

Sincerely,

Janua Manchamd

Janene Marchand, P.E. Gilmore & Associates, Inc. Township Engineers

JM/tw

cc: Michael Walsh, Assistant Manager
Dave Conroy, Director of Planning & Zoning Officer
Ryan Gehman, Assistant Planning and Zoning Officer
Randy Teschner, Code Enforcement/Fire Marshal
Ryan Cressman, Public Works Superintendent
Sean Gresh/Jeffrey P. Garton, Esq., Township Solicitors
Joe Casadonti, Applicant
Robert T. Cunningham, P.E., Holmes Cunningham, LLC
Craig D. Kennard, P.E., E.V.P., Gilmore & Associates, Inc.



65 E. Butler Avenue Suite 100 New Britain, PA 18901 P: 215-345-4330 F: 215-345-8606

www.gilmore-assoc.com

### **MEMORANDUM**

**Date:** March 1, 2023

To: Matt West, New Britain Township Manager

**From:** Toby Kessler, P.G.

cc: Michael Walsh, Randy Teschner, Dave Conroy, Ryan Gehman, Sean Gresh,

Jeffrey Garton, Jeffrey Clark, Joe Casadonti, Craig Kennard, Janene

Marchand, David Gerstenfeld

**Reference:** File 22-05077

396 King Road (Casadonti), Water Resource Impact Study Review 1

TMP 26-004-030

Please note the following review prepared by Gilmore & Associates, Inc. (G&A) on behalf of New Britain Township of the "Water Resources Impact Study Report", prepared by Valley Environmental Services, Inc. (VES), dated January 22, 2023.

<u>Summary:</u> A six-lot single family housing development is proposed with on-lot wells and on-lot septic systems. The 36.1-acre parcel currently consists of an existing house, pole barn, trees, and open fields. VES submitted a Water Resources Impact Study (WRIS) report as required for a preliminary land development application.

Existing wells on the property include the existing residential well on proposed Lot #4 and an existing test well on Lot #1. The WRIS report provides details on drilling of three new wells for proposed Lot #2, Lot #3, and Lot #5 and a 72-hour aquifer pumping test completed by pumping the proposed Lot #2 and Lot #4 wells. The combined pumping rate for the 72-hour test was approximately 6 gpm, which was based on the calculated peak water demand in the subdivision. Water level monitoring during the 72-hour aquifer pumping test included the pumping wells, the proposed Lot #3 and Lot #5 wells, the existing test well in Lot #1, and three offsite existing residential wells. Water quality sampling was performed from the two pumping wells at the completion of the 72-hour aquifer test.

The following summarizes the results of the WRIS:

- The underlying bedrock at the property is the Lockatong Formation. This is typically a low-yielding, tight bedrock formation. Depths of the test wells ranged from 500 to 800 feet, which is typically the deepest depth that water supply wells are installed to obtain water in the Lockatong Formation.
- Yields of the test wells as observed during drilling ranged from 1 to 5.5 gallons per minute (gpm). This is a typical range for wells drilled in the Lockatong Formation.

396 King Road (Casadonti), Water Resource Impact Study Review 1

March 1, 2023

- Aquifer properties (transmissivity, storage coefficient, specific capacity) indicate poor transmission capability of water within the aquifer, even lower than commonly found in the Lockatong Formation.
- The WRIS provides a projection of pumping for up to one year with no groundwater recharge. The water level projection for Lot #2 indicates that this well would be dewatered after 90 days if pumped continuously at a rate of approximately 3 gpm.
- The WRIS report provides a water budget as required by New Britain Township. The water budget provides an assessment that overall, there will be more groundwater recharge in the proposed subdivision than groundwater withdrawal.
- The WRIS report indicated a change in water level (drawdown) of 25.26 feet in the Lot #3 well and 9.64 feet in the Lot #5 well. No drawdown was observed in Lot #1 Well or the 3 off-site monitoring wells during the 72-hour pumping test.
- Arsenic, Total Coliform and E. coli were found to exceed their respective drinking water limits
  on Lot #2. The source of arsenic may be naturally occurring in the Lockatong bedrock. The
  WRIS report recommends a standard in-home treatment system for the arsenic and
  chlorination of the well prior to being re-tested for occupancy.
  - Total coliform was found to be present in the existing Lot #4 well. The WRIS report recommends that the Lot #4 well be chlorinated and re-tested for coliform. If coliform is detected, the water will be treated with an ultra-violet filter.
- The WRIS provides an evaluation of the effect of proposed septic systems on groundwater quality, specifically nitrates in the groundwater. The final, calculated nitrate-nitrogen concentration was reported as 5.59 milligrams per liter (mg/L), which is less than the drinking water maximum contaminant level (MCL) of 10 mg/L.

### **G&A Comments:**

In order for the WRIS to be in compliance with New Britain Township Wells Ordinance and Water Supply Ordinance, Valley Environmental Services, Inc. shall address the following comments:

- 1. The purpose of the WRIS regulations is to ensure that new wells constructed in the Township are able to provide a reliable, safe, and adequate supply of water (§719.8.A). None of the test wells reported in the study have been identified as having an adequate supply of water even after hydrofracturing. The WRIS report shall be revised to evaluate the likelihood of obtaining sufficient water on each lot per the Township's testing requirements.
- 2. The location of all existing wells and septic systems within ¼-mile of the proposed wells shall be provided in the WRIS report. (§719.8.D.3).
- 3. Conclusions regarding the impacts of long-term pumping to surrounding wells shall be drawn from the analysis. (§719.8.E.7). The WRIS report states, "Based on the Lot #2 well long-term pumping test, no adverse impacts to the local groundwater system are anticipated as a result of the 6 proposed domestic water supply wells for the Casadonti-King Road subdivision." This conclusion is inconsistent with the results of that pumping test. Although the proposed water supply wells in Lots #1 and #6 have not been installed, based on the data presented in the report, it is likely that the pumping in the proposed wells in lots #1 and 6 will impact the water levels in nearby existing residential wells. The report shall be revised to adequately predict the change in water level outside the proposed subdivision due to pumping of the proposed wells.
- 4. The report shall include a contour map of water levels in the test well and monitoring wells after one year of pumping under drought conditions (no recharge), based upon the pump test data (§719.8.E.7). The contours in Figure 7 of the report do not reflect the water levels from the pump test data.

- 5. The water quality testing did not include a library search for Tentatively Identified Compounds in both the Lot #2 and Lot #4 water laboratory reports. The laboratory report for the Lot #2 well shall be revised to include the Pesticides Group 3 parameters, aldrin and dieldrin. (§719.9.C.2.d)
- 6. If the existing well on Lot #1 Well is not intended for use, it shall be noted to be properly sealed in accordance with the PADEP Groundwater Monitoring Guidance Manual, February 1996. (§719.9.D.9)
- 7. The adequacy of each residential water supply shall be determined based upon 200 gallons of water per bedroom per dwelling unit per day. The WRIS report shall be revised to evaluate the potential for the proposed water supply wells to meet the NBT ordinance requirements. (§719.9.E.2).
- 8. In order to be certified for use for a single-family dwelling, a well shall have a production of not less than 6 gallons per minute as certified by a licensed well driller. If less than 6 gallons per minute yield is established, such a well may still be certified for use if sufficient storage is provided to meet the calculated peak demand. In no case shall a well yielding less than 2 gallons per minute be certified for use by the Township. Well #2 was observed to pump 2.69 gpm over the 72-hr pump test. It does not appear that the Lot 2 well will be able to meet the required long-term yield. The WRIS shall be revised to provide a long-term yield of the Lot #2 well and any recommendations and/or limitations provided accordingly. (§719.9.E.3)
- 9. The Well depletion agreement required by New Britain Township will need to include at a minimum, monthly monitoring of water levels in all monitoring and pumping wells, and the monitoring of precipitation, from the start of construction through from the date that the Township either accepts dedication of any public improvements or approves completion of improvements not to be publicly dedicated, whichever last occurs. The Applicant shall provide a proposed water level monitoring network in the WRIS to be used in the Well Depletion Agreement. (§719.11).



**ENGINEERING & CONSULTING SERVICES** 

March 7, 2023

File No. 22-05077

Matt West, Township Manager New Britain Township 207 Park Avenue Chalfont, PA 18914

Reference: 396 King Road, "The Estates at Hill Top" Planning Module Review 1

Joe Casadonti, T.M.P. #26-004-030

### Dear Matt:

Pursuant to your request, Gilmore & Associates, Inc. has reviewed the PADEP Planning Module Component 1 submission including a Site Investigation and Percolation Test Report for On-Lot Disposal of Sewage and Act 537 Plan Sheet 1 of 1 for the above-referenced project. Component 1 Planning Modules are for Exceptions to the Requirement to Revise the Official Plan for smaller scale land development projects, i.e. 10 or less lots. The Applicant proposes 5 new dwelling lots each with both primary and backup sewage disposal systems to be conventional elevated sand mounds. A backup system is also provided for the existing lot, proposed Lot 4. Upon review, we offer the following comments for consideration:

- 1. We recommend that the Completeness Checklist be completed, and the Zoning Officer and Township Manager (as authorized official of the Planning Agency or New Britain Township) sign Section J. Planning Agency Review.
- 2. The municipality must review and act upon a complete Component 1 within 60 days of receipt unless the Applicant agrees to another date in writing. While the Township does not officially adopt the component as a revision to their Official Act 537 Plan by resolution, the Board of Supervisors must still formally approve the component. We recommend the Planning Module be added to the Board of Supervisors Agenda when preliminary and/or final approval is being considered for the land development assuming it's within the 60 days of receipt of the module. Once approved, we recommend the Chairman of the Board of Supervisors print his name, sign and date Section K regarding Municipal Action denoting the Township finds the Planning Module to be acceptable.

Once the above comments are addressed to the Township's satisfaction, we recommend the completed Component 1 including the Soil Investigation Reports and Plot Plan be submitted to DEP for review. If you have any questions regarding the above, please contact this office.

Sincerely,

Janene Marchand, P.E. Gilmore & Associates, Inc. Township Engineers

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JM

Attachments: Component 1, Site Investigation Report, PNDI, Act 537 Plan (Site Plan)

cc: Michael Walsh, Assistant Manager

Dave Conroy, Director of Planning and Zoning

Ryan Gehman, Assistant Planning and Zoning Officer Randy Teschner, Code Enforcement/Fire Marshal

Sean Gresh/Jeffrey P. Garton, Township Solicitors

Joe Casadonti, Applicant

Amanda Daniels, SEO, County of Bucks Department of Health

Tara Bernard, VW Consultants, LLC

Robert T. Cunningham, P.E., Holmes Cunningham, LLC Craig D. Kennard, P.E., E.V.P., Gilmore & Associates, Inc.



# COUNTY OF BUCKS

## DEPARTMENT OF HEALTH

Neshaminy Manor Center, 1282 Almshouse Road, Doylestown, PA 18901 - 215-345-3318 FIELD OFFICES

Bucks County Government Services Center, 7321 New Falls Road, Levittown, PA 19055 – 267-580-3510 Bucks County Government Services Center, 261 California Road, Suite #2, Quakertown, PA 18951 – 215-529-7000

County Commissioners ROBERT J. HARVIE, Jr., Chair DIANE M. ELLIS-MARSEGLIA, LCSW, Vice-Chair GENE DIGIROLAMO, Commissioner Director DAVID C. DAMSKER, M.D., M.P.H.

February 22<sup>nd</sup>, 2023

New BritainTownship- Planning and Zoning 207 Park Avenue Chalfont, PA 18914

RE: Proposed Subdivision 396 King Road T.M.# 26-004-030 DEP Code #

Dear Mr. Gehman,

Component 1 (Minor Subdivision) of the Planning Module for Land Development for subject subdivision has been reviewed and signed by this Department in accordance with the requirements of Title 25, Pennsylvania Code, Section 71.44, subchapter C., 71.51, 71.53 and 71.55.

On June 10, 1989, Chapter 71 of the Pennsylvania Sewage Facilities Act (Act 537) was revised. Under the revision, it is now the municipality's responsibility to forward a complete planning module submission of this subdivision to PA DEP for their review.

This Department <u>cannot</u> issue any permits on this proposed subdivision until written approval from PA DEP has been received or proof that a complete application has been before PA DEP. This Department must also receive a copy of the signed subdivision plan.

Enclosed please find 2 copies of the following:

1) Component 1

2) Site Investigation and Percolation Test Report for On-Lot Disposal of Sewage

3) Subdivision Plan

If you have any questions, feel free to contact me at 215-345-3848.

Sincerely,

Amanda Daniels

Sewage Enforcement Officer # 3938

cc: Central

District

Casadonti Homes Inc. (Developer), Attn: Joe Casadonti, P.O. Box 5, Chalfont, PA 18914

VW Consultants LLC, 1590 Canary Rd, Quakertown, PA 18951

### 3800-FM-BPNPSM0350 2/2015 Checklist



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

# **Completeness Checklist**

The following items should be checked off by the applicant as each is completed. The municipality should confirm that the required items have been included within ten days of receipt and if complete, sign and date the checklist. Submissions not containing the following information will be considered incomplete.

$\boxtimes$	Complete Component 1	
$\boxtimes$	Letter from public water supplier (if applicable)	
$\boxtimes$	Plot plan and 7.5' topo map showing subdivision	
$\boxtimes$	"Site Investigation and Percolation Test Report(suitable and unsuitable)	s)" with results of <b>ALL</b> profile examinations and percolation tests
$\boxtimes$	Signature of soils description preparer	
$\boxtimes$	Signature of developer	
$\boxtimes$	SEO signature	
$\boxtimes$	PNDI "Project Planning & Environmental Revie Receipt" (self completed search) and all appropri	ew Form" (request DEP search) or "Project Environmental Review riate documentation for the form submitted.
$\boxtimes$	Planning Agency Signature	
	Zoning Officer Signature (if applicable)	
		Signature of Municipal Official
		Date submittal determined complete



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

Code	No.	:	
1.9			- 1
			- 1

# **SEWAGE FACILITIES PLANNING MODULE**

# Component 1. Exception to the Requirement to Revise the Official Plan

DEP USE ONLY									
DEP CODE#	CLIENTID	# \$	SITE ID#	A	PS ID#	AL	JTH ID#		
This planning module co less ( <i>including residual I</i> sewage disposal system for help in completing thi	ands) intended as s. The number of	building sites fo	r detached single	family d	welling units	served by in	dividual onlo		
	oust be field verified or in writing at le h to observe the so	ast 10 days prid	Enforcement Off or to testing. In s	icer (SE0 ome cas	D). The SEO es, a repres	must notify tentative of t	he approving he approving		
the pr	dments to the Sen ng modules for lar oject (DEP or del information on thes	nd development. egated local age	These fees may	y vary de	epending on	the approvir	ng agency fo		
A. PROJECTINFO	RMATION (See S	Section A of instr	uctions)		Sage	HT.	100		
1. Project Name 396	King Road					Commonde a Caroci no transcribina del Caro			
2. Brief Project Desc	ription Proposed 5	lot residential lo	t where Lot No. 4	contains	the existing	nouse			
***									
3. Total Number of Lo	ots: s Being Proposed		engalem i i i i i i i i i i i i i i i i i i i	• •	The Thurst		5		
	i Parcel/Lot								
	evious Lots Develo								
Total						=_	5 *		
* If total exceed	s 10, do not use th	is form. Contact	DEP for correct f	orms.	er de troit de	gradient de la company			
B. CLIENT (MUNIC	CIPALITY) INFOR	RMATION (See	Section B of instr	uctions)		17 (2)			
Municipality Name New Britain	Operation, 1997 (1997), complete medical consequence of the state of t	County Bucks		City	Bo L		Twp ⊠		
Municipality Contact - La West	ast Name	First Name Matt		MI	Suffix	Title Township M	lanager		
Additional Individual Las Walsh	t <b>N</b> ame	First Name Michael		MI	Suffix	Title Assistant M	anager		
Municipality Mailing Add 207 Park Avenue	ress Line 1		Mailing Addres	s Line 2					
Address Last Line City Chalfont	<i>,</i>			tate A	ZIP+4 18914				
Phone + Ext. 215) 822-1391		FAX (optional)			(optional) st@newbritair	ntownship.or	9		

C. SITE INFORMATION (See Section C of in	The state of the s	A Property		
Site (Land Development Project) Name 396 King R	Road			
Site Location Line 1	Site Location	Line 2		
396 King Road	715		1 -01-1-	Lavativala
Site Location Last Line City State Doylestown PA	ZIP 189		Latitude 40°20'57.0"N	Longitude 75°10'32.1"V
Detailed Written Directions to Site	103	01	40 20 07.0 14	10 10 02.1 1
From 2 E Main St, Norristown, PA 19401; Continue	e to DeKalb St (0.2 mi): 7	ake US-202 N to	PA-152 N/S Lin	nekiln Pike in
Warrington Township 31 min (13.4 mi); Follow PA-	152 N/S Limekiln Pike ar	nd New Galena F	Rd to King Rd in	New Britain
Township 15 min (7.2 mi); site is located at 396 Kir	ng Rd Doylestown, PA 18	3901		
Description of Site (Project)				
Existing 3-bedroom home with cultivated farm field			E	4
Site Contact (Developer) Last Name First Nar Casadonti Joe	me MI S	uffix Phone (215) 768		CC.
Site Contact Title	Site Con	tact Firm (if none		
Developer		ti Homes	, iouro piarity	
FAX	Email			
( )		tihomes@comca	st.net	
Mailing Address Line 1	Mailing A	Address Line 2		
P.O. Box 5	0(-1-	710	,	
Mailing Address Last Line City Chalfont	State PA	ZIP+ 1891		
· [2] [[] [[] [[] [[] [[] [[] [] [] [[] [	THE PARTY OF THE P	Committee and the second	1.975 - TRY 11 (170 A) 15 4 15	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
D. PROJECT CONSULTANT INFORMATION	ON (See Section D of in	The state of the s		
Last Name First Name		MI	Suffix	
Bernard Tara Title Consulting Firm				
Planning Specialist VW Consultants, LL	C			
Mailing Address Line 1	Mailing Addr	ess Line 2		
1590 Canary Road	1 2 3000 200 3000			
Address Last Line City	State	ZIP+4	Country	
Quakertown	PA	18951	USA	
Email Phone tbernard@vw-consultants.com (215) 536-7006 cell 2	15 651 1040	Ext.	FAX	
E. AVAILABILITY OF DRINKING WATER				
This project will be provided with drinking w	ater from the following s	ource: (Check a	ppropriate box)	
Individual wells or cisterns.				
☐ A proposed public water supply.				
An existing public water supply.				
If existing public water supply is to be	used provide the name	of the water com	nany and attach	
documentation from the water compan			Jany and allaon	
Name of water company:				
F. PROJECT NARRATIVE (See Section F o	f instructions)			
A narrative has been prepared as described.	cribed in Section F of the	instructions.	The state of the s	
The applicant may choose to include			equired by Sec	ction F of th
instructions.				

#### G. GENERAL SITE SUITABILITY (See Section G of instructions)

1	ы	$\Omega$	P	_AN

Attach an original or copy of a 7½ minute USGS topographic map with the area of the proposed land development plotted and labeled. Attach a copy of the plot plan of the proposed subdivision showing the following information:

- a. Location of all soils profiles and percolation tests.
- b. Slope at each test area.
- c. Soil types and boundaries.
- d. Existing and proposed streets, roadways, access roads, etc.
- e. Lot lines and lot sizes.
- f. Existing and proposed rights-of-way.
- g. Existing and proposed drinking water supplies for proposed and contiguous lots.
- h. Existing buildings.
- Surface waters.

- j. Wetlands from National Wetland Inventory Mapping and USDA Hydric Soils Mapping.
- k. Floodplain and floodways (Federal Flood Insurance Mapping).
- Designated open space areas.
- m. Remaining acreage under the same ownership and adjoining lots.
- Existing onlot or sewerage systems; pipelines, transmission lines, etc.
- o. Prime agricultural land.
- p. Orientation to North.

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٠,	- 1-7 1-	· 🔍 11 11 12	1 I HZ D I	. I PI DUMIN	IG WAIVER	

A waiver from sewage facilities planning  $\square$  is,  $\boxtimes$  is not requested for the residual land tract associated with this project. (See Section H, I and J and instructions for additional information).

#### 3. SOILS INFORMATION

- a. Attach copies of "Site Investigation and Percolation Test Report" (3800-FM-BPNPSM0290A) (formerly known as "Appendix A") form(s) for the proposed subdivision.
- b. Marginal conditions for long-term onlot sewage disposal ☐ are, ☒ are not present. See marginal conditions information in Sections H and J and in attached instructions.
- c. If one or more lots in this subdivision are planned to be served by Individual Residential Spray Irrigation Systems (IRSIS), please see the specific information on IRSIS in Section G of the instructions.

Both the soils description preparer and developer must sign below indicating acknowledgement of the false swearing statement.

I verify that the statements made in this component are true and correct to the best of my knowledge, information and belief. I understand that false statements are made subject to the penalties of 18 Pa. C.S.A. §4904 relating to unsworn falsification to authorities.

Max Russick, CPSS	Joe Casadonti
Soils Description Preparer Name (Print)	Developer Name (Print)
0h / 10/5/2022	-4-7 10-5-22
Signature Date	Signature Date

Н.	H. MUNICIPALITY'S CERTIFIED SEWAGE ENFORCEME	NT OFFICER (See Section	n H of instructions)
1,	component. Confirmation of this information was based upon of and other generally available soils information. The proposed described in the propose	n-site verification of soil test velopment site: t constitute individual perm information on marginal co d comments regarding this o	its, general site conditions it approval. onditions).
	Cannot be evaluated for general site suitability because of in		anlat system use because
2.	<ul> <li>one or more of the following conditions exist. (Check all that app</li> <li>Soils profile examinations which document areas of suitable</li> <li>Site evaluation which documents soils generally suitable for slopes over 12%.</li> </ul>	ly). soil intermixed with areas of elevated sand mounds wi	f unsuitable soils. th some potential lots with
	Site evaluation which documents soils generally suitable slopes in excess of 20%.	for in-ground systems with	some potential lots with
	Lot density of more than 1 residential dwelling/acre.		W
3.	I have inspected the lot on which the existing building and expanded on soils mapping or soils evaluation, permit inform disposal needs of this site and the building currently served on the site and the site and the building currently served on the site and t	existing septic system is local nation or site inspection to can be met.	ated and have concluded, nat the long-term sewage
	I further acknowledge that no violations of the Sewage Factors as a result of my site inspection. No inferences regarding further be drawn from this acknowledgement.	ture performance of the ex	sting septic system should
	A brief description and sketch of the existing system and site	is attached.	0/2/20
	amanda Daniel	3938	2/3/23
	signature of Certified Sewage Enforcement Officer with urisdiction in municipality where development is proposed	Certification	Date
J.	PROTECTION OF RARE, ENDANGERED OR THREAT	ENED SPECIES (See Se	ection I of instructions)
Ch	Check one:		
(P)	The "Pennsylvania Natural Diversity Inventory (PNDI) Project earch of the PNDI database and all supporting documentation statched.  A completed "Pennsylvania Natural Diversity Inventory (PNI PNDI Form) available at <a href="www.naturalheritage.state.pa.us">www.naturalheritage.state.pa.us</a> , and a sequest DEP staff to complete the required PNDI search for my considered incomplete upon submission to the Department and that my planning module will be delayed, until a "PNDI Project Incomplete	from jurisdictional agencies  OI) Project Planning & Envil required supporting documents project. I realize that must the DEP review will not be environmental Review Repreceived by DEP.	ironmental Review Form," umentation is attached. I y planning module will be egin, and that processing of
-		Applicant of C	Olisuitalit Illitiais
J.	PLANNING AGENCY REVIEW (See Section J of instruction	ons)	
for ord ha ad	This planning module has been reviewed by the existing municipal cound to be consistent, inconsistent with municipal zoning ordinances. A waiver of the sewage facilities planning requirement as not been requested. If requested, the proposed waiver deministered by this agency.	g ordinances or subdivisits for the residual tract of	on and land development his subdivision $\square$ has $\boxtimes$
Ne	New Britain Township Municipal Planning Agency Name	Zoning O	fficer Signature
-	Planning Agency Signature (Authorized Official)		
	No municipal planning agency exists	☐ No municipal zon	ing ordinance exists

K. MUNICIPAL ACTION (See Section K of instructions)	
The municipality must act within 60 days of receipt of a comple	te sewage facilities planning module package.
This planning module has been reviewed by the municipal Approval of this planning module does not constitute individual.	governing body and has been found to be ACCEPTABLE. dual onlot system permit approval.
☐ This planning module is <b>NOT ACCEPTABLE</b> because:	등에 하는 경기를 가능하는 것이 되어 가장 하는 것이 되는 것이 되었다. 그는 것이 되었다. 하는 말 하는 것이 하는 것이 있는 것들이 가능한 하는 것을 하는 것이 되었다. 하는 것이 되었다.
Check appropriate reason(s)	
☐ The subdivision does not comply with municipal zoning	ordinances.
☐ The subdivision does not comply with municipal subdiv	ision and land development ordinances.
☐ The subdivision is not suitable for the use of individual	
(Administration of Sewage Facilities Planning Program	
Other (Explain)	estadorna en al Secula Sagonina en Francisia de la energia per tendra de la come. La comitación de la comit
☐ The proposed development has been identified in Section concerns for the long-term use of onlot sewage systems providing long-term sewage disposal to this subdivision: (0	G and/or Section H as having marginal conditions or other.  The municipality has selected the following method of
Provision of a sewage management program meeting	the minimum requirements of Chapter 71, Section 71.73
Replacement area testing	
☐ Scheduled replacement with sewerage facilities	
Reduction of the density of onlot systems	
The justification required in Section J of the instructions is	attached.
A waiver of the planning requirements for the residual tract	of this subdivision has been requested.
The municipality acknowledges acceptance of this propose requirements for the residual tract designated on the sequirements for the residual tract designated on the sequired sewage facilities planning for the designated resist sewage-generating structure on the residual tract of the suinformation may require municipal officials to be responsible the residual tract in the future.	subdivision plot plan. Our municipal officials accept full of this waiver and to submit to the approving agency any dual tract should a violation occur or construction of a new abdivision be proposed. We understand that such planning
Chairperson/Secretary of Governing Body	Signature Date
Nour Pritain Township	
New Britain Township  Municipality Name	
207 Park Avenue, Chalfont, PA 18914	(Area Code) Telephone No. (215) 822-1391
Address	

REVIEW FEE (See Section L of instruction)	ons	าร
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The Sewage Facilities Act establishes a fee for the DEP planning module review. DEP will calculate the review fee for the project and invoice the project sponsor **OR** the project sponsor may attach a self-calculated fee payment to the planning module prior to submission of the planning package to DEP. (Since the fee and fee collection procedures may vary if a "delegated local agency" is conducting the review, the project sponsor should contact the "delegated local agency" to determine these details.) Check the appropriate box.

	request the Depart	DEP calculate the review fee for my project a tment's review of my project will not begin until	nd send me an invoice for the correct amount. I understand DEP receives the correct review fee from me for the project.
1	instruction Pennsylva review of i my check	is. I have attached a check or money order ania DEP". Include DEP code number and/ my project unless it receives the fee and determined.	the formula found below and the review fee guidance in the rein the amount of \$ payable to "Commonwealth of or project name on check. I understand DEP will not begin mines the fee is correct. If the fee is incorrect, DEP will return the correct amount. I understand the DEP review will NOT
1	ot and is subdivision	the only lot subdivided from a parcel of land	eview fee because this planning module creates <b>only</b> one new d as that land existed on December 14, 1995. I realize that disqualify me from this review fee exemption. I am furnishing y fee exemption.
(	County Re	ecorder of Deeds for	County, Pennsylvania
1	Deed Volu	me	Book Number
- 1	Page Num	ber	Date Recorded
Form	nula:		
#		Lots X \$35.00 =	
Note	: (1)	To calculate the review fee for any project, u	se the number of lots created in the above formula.
	(2)	When using the number of lots, include or review fee. Do not include any "Residual La	nly the number of lots being proposed when calculating the and Parcel/Lot".
	Casadont eloper Na	ne (Print) 10-5-22	
Sign	ature	Date	

#### COMPONENT 1 SEWAGE FACILITIES PLANNING MODULE

#### PROJECT NARRATIVE - REVISED 3/7/23

#### 396 King Road Doylestown, PA 18901 New Britain Township, Bucks County TM# 26-004-030

1. Casadonti Homes is proposing to subdivide the 396 King Road property into 6 residential lots which is located in New Britain Township, Bucks County, PA. There is an existing home with a permitted septic system that will remain, and a lot will be created for this home (proposed Lot No. 4). The remaining five lots are proposed to be new residential homes.

In support of the proposed 6-lot subdivision, VW performed deep-hole test pits and percolation testing with the Bucks County Health Department (BCHD) on each of the proposed lot to delineate a primary and replacement on-lot sewage disposal. A replacement area has been delineated for the existing home and a copy of the permit for the existing septic system is enclose in the module. The soils observed on the property had seasonal high water table limiting zones (mottling/redox features) generally greater than 20 inches below the existing ground surface. Therefore, the proposed primary and reserve on-lot systems will be conventional elevated sand mounds systems.

Runoff from the site and adjacent areas flow to an unnamed tributary that flows to the North Branch Neshaminy Creek which is classified as WWF in Chapter 93.

- 2. Per Title 25 of the PA Code, Chapter 73, the projected daily sewage flow for this 6-lot subdivision is 2,900 gallons per day. The existing dwelling is three-bedrooms at 400 gallons per day, and the proposed dwelling will be four-bedrooms at 500 gallons per day. Therefore, the calculated EDUs for the project is 7.25.
- 3. Total gross site acreage is 36.099 acres.
- 4. There is no acreage adjacent to this site under the same ownership. Residential properties border the project site and all utilize on-lot sewage disposal and individual wells. The surrounding properties do not have a high rate of on-lot system malfunctions.

Name of Responsible	Party	Post Office	T.M.# Address	Telephone
TRIEST, EM.				
Name of Contact	R. D.I.	Doylestown, re.	18901	345-1921
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Rodents	Rats	ilice -	Dump	
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Other		Camp	_ VA	
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			B.	UCKS CO.

#### BUCKS COUNTY DEPARTMENT OF HEALTH

Neshaminy Manor Center Doylestown, Pa.

Tax Map No. E ye Spr.

Construct XXX Alter T

(Fill out in Quadruplicate) For Application for Permit to Locate and Construct or Alter an Individual Scwage Disposal System

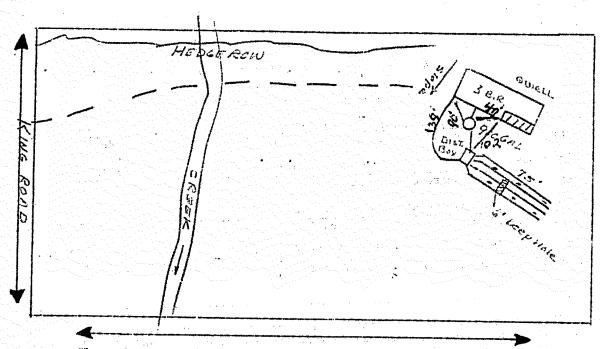
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SECTION I: Location of Proposed System, Owner and Contractor BUCKS CO.  No. and Name of Street Block # Lot # Section # Township or Boro King Road 61 acre tract New Briatin Twr.  Road directions from the nearest community  1600 feet from 313 on King Road - NW side  Name of Present Owner (Print) Present Address Telephone  William Triest RD1, Doylestow, Pa. 18901 345 1921  Name of Contractor Address Telephone  SECTION II Building to be served Address Telephone  SECTION II Building to be served Address Telephone  SECTION II Building to be served Address Telephone  No. Rooms in Attic No. Bedrooms 3 Expansion Attic No. Rooms in Attic No.
King Road 61 acre tract New Briatin Twr.  1600 feet from 313 on King Road - NW side  Image of Present Owner (Print)    New Briatin Twr.   New Bria
King Road  61 acre tract  New Briatin Twr.  1600 feet from 313 on King Road - NW side  ame of Present Owner (Print)  William Triest  Address  Telephone  MPORTANT: If there has been a recent change of ownership, give previous owner's name in this space.  ECTION II  Residential: No. Bedrooms 3 Expansion Attic Potential Number  Check type Facilities: Bath 2 Kitchen 1 Garbage no No. Persons  Non-residential: Type Building Use: Hrs/Day No. Persons  Water use Gal./per day Gal.  Check type Facilities: Toilets Kitchen Garbage Grinder Showers  ECTION III:  Water Source Information Well to De dug  Type: Public Private Not If private, depth of well ft. Casing ft.  Type: Public Private Not If private, depth of well ft. Casing ft.  Type casing Distances from Septic Tank 50 ft., to liquid disposal
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Type casing Distances from Septic Tank 50 ft., to liquid disposal
ECTION IV: Nature of Installation or Alteration  Installing Instal
ECTION IV: Nature of Installation or Alteration Installing
. Septic Tank: Existing Installing
at a manife depth it
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The state of the books of the Linear reet of the boy the
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2. Beds: Width ft. Length ft. Depth ft. Linear reet of rips
Distance between lines ft. Area-Disposal Bed sq. 12.
Distances between lines 8 ft. Area-Trench Bottom 900 sq.  2. Beds: Width ft. Length ft. Depth ft. Linear Feet of Pipe ft.  Distance between lines ft. Area-Disposal Bed sq. ft.  3. Seepage Pits: Number Distance between pits ft. Shape or size ft.  Porth below inlet ft. Material
Diameter ft. Depth below inlet ft. Material
SECTION V: Soils lest information bedrock 6'
Diameter ft. Depth below inter the first internation Section V: Soils Test Information Depth to ground water table none at 6' Depth to bedrock 6'
Hole Time in No. Depth Type of Soil Encountered Sq.Ft./Bedroom
Depth each type
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2. (2 14 = 18 in. clar & stone
3. 45
4. 45 ave. 35
5. 25
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I hereby certify that (1) no public sewer is accessible, (2) that betater perment.
I hereby certify that (1) no purific sewer is determined standards of the Department, tests have been performed in accordance with the technical standards of the Department, tests have been performed in accordance with the technical standards of the Department,
tests have been performed in accordance with the true and correct, and (4) that the type that the results of these tests given above are true and correct, and (4) that the type
soil encountered is suitable for on-lot sewage disposal.  Seal and Signature of Registered Odervard B. Blumwick Date 3 August 1970 EIV  Professional Engineer or Surveyor
Seal and Signature of Registered Collinate By Englisher Bate Envir. S.
Professional Engineer or Surveyor

BCDH SA-9 Rev. 5/68 AMR/LWT/dol

BUCKS CO. DEPT. OF HEALT SECTION VI: Sketch of Proposed Installation and Premises

(Show lot dimensions, location of buildings, water supply and property disposal system with distances from buildings, water supply and property lines, length and slope of tile lines, cross section of trenches, beds or seepage pits and other pertinent details.)



The undersigned agrees to construct the above individual sewage disposal system in accordance with the approved plans and the provisions of the Rules and Regulations and Tecinical Standards of the Department, governing individual sewage disposal effective January 17, 1968. Fee of Sixty-two Dollars (\$62.00) is enclosed covering Permit and Certificate of Compliance.

(Please make checks payable to Bucks County Department of Health.)

Owner X / Wy / Sist Contractor foly de Mustice per Will

Date 3 AUGUST 1970 Date Que ust 5, 1970

PERMIT

Permission has been granted to the above to locate and construct or alter en individual sewage disposal system on the premises described in accordance with these plans. Permission for deviation must be obtained in writing.

Date 8/5/70

By Chung C. Huang
Sanitagian

BUCKS COUNTY DEPARTMENT OF HEALTH Doylestown, Pennsylvania

William C. Spring, Jr., M.D. Director

BCDH SA-9 Rev. 3/70 AMR/LWT/1b



#### BUCKS COUNTY DEPARTMENT OF HEALTH Neshaminy Manor Center Doylestown, Pa. 18901

XXX Construct		Tax Map No.	26 -4	-31
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		Date	Hent	IVED
Ap	plication for Certificate of	Compliance		, SAN
	To Locate and Construct or An Individual Sewage Disposa	Alter 1 System	AUG (	1970
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Directions from the Nearest	Community	New DIT	tain Twp.	
1600 feet from 313 on h				
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William Triest F	D1, Doylestown, Pa. 18901	2262,132638	2/5 40	
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	and Defect	Post Office	2	Telephone
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ate J August 1970	Date			
	CERTIFICATE OF COMPLIAN	CE		1 - 4 1
The Individual Sewage and found to be in compliance its the Individual Sewage Date 12/18/10				
C. Hurg	Disposal System located as one with the previously approvisposal Regulations, effecti	described above yed plans, and ve January 17, BUCKS COUNTY D William C. Spr Director	15 in co 1968. EPARTMEN	mpliance I OF HEALTH

JAN : 1971 BUCKS CO.

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	Application			Ja-18	#	Municip			Britain Town		County	Buc	
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	Applica	ation No		* + 1	\$15.50 200 000		ality _			ship	County	Buc	Mr. S.
	Site Lo	cation	7.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	396 King F	Road		Subd'n Nam	ne _	Lot	# 1 The Est	ates at Hill T	ор
	Suitable Unsuital	ble	Mottl	ing S	De Reaville Geeps or Ponded Unstabilized Fill	Water	Bedroo	k	ctures	Coarse		Table 1	erc. Rate
					R COMPLE	TION OF	THIS FOR	M ARE LO	CATED O	N THE RE	VERSE		
	SOILS	DESCI Descrip	otion C	N: omplete	by:	11 E A S	VW Cons	sultants LLC	C/MHR		Date:	1/3/22	3 1
		ches	Pit#				Description						
p	0	TO 10	11	7.5YR 3	/4, Silt Loam, N	Aoderate, Fi	ne, Granular,	Friable			1.10	- 0-	
t	10	TO 34	ii	7.5YR 5	/6, Channery,	Silty Clay Lo	am, Moderat	e, Medium, S	Subangular B	locky, Friabl	e		
					/6, Very Chann		Tropic Section						
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	Weath Soil C	ner Con	ditions : s: H20	B V	Reading Interval	Dry Reading No. 1:	Frozen Reading No. 2:	Reading No. 3:	Reading No. 4:	Reading No. 5:	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
	Weath Soil C	ner Conc ondition	ditions : s: H20	B V	Vet Reading	Dry Reading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
	Weath Soil C	ner Conc ondition	ditions : s: H20	B V	Reading Interval	Dry Reading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
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	plication No e Location			396 King F		oality		Britain Tow	The state of the s	County		cks
✓ Suit		-					•				tates at Hill	10b
Uns	sultable	☐ Mott	ling 🗌	ype Readingtor Seeps or Ponded Unstabilized Fill	Water	☐ Bedro		ictures	36 M Coarse	Fragments		Perc. Rate
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	Inches	Pi##	21			Description	n of Horizo	on		+ 5		
p	<u>0_TO_9</u>	.,	7.5YR	3/4, Gravelly, Si	lt Loam, Mo	derate, Very	Fine, Suban	gular Blocky	, Friable			
Bt	9 TO 36	-	7.5YR	5/4, Channery,	Silt Loam, N	Moderate, Fir	ne, Subangul	ar Blocky, F	riable			
<b>x</b> _3	6 TO 38	_ n	7.5YR	4/6, Very Chan	nery, Silt Lo	am, Modera	le, Medium, I	Prismatic, Fi	m			
	TO	H	Comm	on distinct redo	k depletions	and commo	n faint redox	concentration	ons	in the second second second		
	TO	 11						1	/	2	<del></del>	
	TO	• •				<del> </del>		Mi	of V	~ 4.2	Depth to L Zone:	imiting
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	eather Condition	s:		the second control of	☐ 40 F or A Dry ☐	Frozen			leet, Snow (last			
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	-	<del></del>		10730	<u> </u>					<del>- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1</del>		
		*		10 / 30 10 / 30		<u> </u>					1	
	***Water	remaining	g in the h	ole at the end of t	he final 30 m	inute presoak	? Yes, use 3	) minute inter	val; No use 10	minute interv	al	
	Calcula			e Percolation F					att in de care	•		evitati
Hok	e No.	Drop d final pe	uring inod	Perc. Rate Minutes/In		Depth of Hole	and the second					
	-	92-1-2045 <del></del>	yang 🏰	i to Bayaryanaya			n:		The information			
	.5/24		n. Line in the	a (14. febrioria). <del>La compositione de la compositione</del>					correct results			e pares despera
	<del>- The state of th</del>		in .	<b>Harmonian</b>			<b>11</b>		me, performed		rsonal super- Inner approved	
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				196	AGN MAIS	VII.						

	Application		-		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		New			County	Buc	- Harris
		n		396 King F	Road		Subd'n Nar	ne .	Lo	t# 1 The Es	tates at Hill	Гор
3	Suitable Unsuitable	and the second	ottling	rpe Readingtor Seeps or Ponded Unstabilized Fill	Water	Bedro	N. District of March Post III	ctures	The second second second	Ave. Perc. e Fragments	The second secon	Perc. Rate
				OR COMPLE	TION OF	THIS FOR	M ARE LO	CATED	N THE R	EVERSE		
	SOILS DES			e by:	April 1	VW Con	sultants LL	C/MHR		Date:	1/3/22	
	Inches	Pi	t# 22			Descriptio	n of Horizo	on				
)		8 "	10YR 3	8/4, Silt Loam, N	loderate, Fir	ne, Granular,	Friable	HE (12)			-	
	8 TO 2	5 "	10YR	5/4, Silt Loam, S	Strong, Medi	um, Subangi	ular Blocky, f	riable	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
	25 TO 3	0 "	10YR	4/4, Very Chann	ery, Silt Loa	m, Weak, M	edium, Prisn	natic, Firm				
	то			on distinct redo				0		1	-	
-		-	-			nur Assert		- Ch	al de	/		
	TO	"	-					pre	y K	'ser	Depth to L	imiting
	TO		3	S	7 -7 - 4						Zone:	
	то										25	Inches
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	Soil Conditi	200	20 Left	Wet	Dry Reading	Frozen Reading	Reading	Reading	Reading	Reading	Reading	Reading
			***	Reading	No. 1: Inches	No. 2: Inches	No. 3: Inches	No. 4: Inches	No. 5: Inches	No. 6: Inches	No. 7: Inches	No. 8: Inches
	Hole N	lo. Ye	s No	Interval	of drop	of drop	of drop	of drop	of drop	of drop	of drop	of drop
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	-			10/30			de la companya della companya della companya de la companya della	No.		-	-	
	-	-	1	10 / 30	MEDIUM MODELLA CONTRACTOR OF THE PARTY OF TH	Hij .						
	***Wa	ter remai	ning in the h	ole at the end of	the final 30 m	inute presoak	? Yes, use 3	0 minute inter	val; No use 1	0 minute inten	/al.	-
	Calc	lation	of Average	e Percolation	Rate:							
	5,010		p during	Perc. Rate		Depth						
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		1,000	75 m	- 9						tion provided is		
		200		_						ts of tests con		
				-						2011/06/06 19:00	ersonal super- anner approved	
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	5 3 1	4				-3-	0		0	1	1.4	3938
	TOTAL OF	MIN/IN		72	=		Min		(S)	MAN	1011	010
	TOTAL No.			-	3/		Inch	1		Enforcement O	fficer	

	Application No. Site Location	, 1 1881 	306 King	Munici	pality	New	Britain Tow		The second of the second	Bu	
	Cruitable	•								tates at Hill	100
	Unsuitable Mo	ttling 🔲 Se	<ul> <li>Reaville</li> <li>Reps of Ponded</li> <li>Reps of Ponded</li> <li>Reaville</li> </ul>	l Water	☐ Bedro	ock 🔲 Fr	actures	Coarse	Fragments	Rate	Perc, Rate
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	Soils Description (		oA:				· · · · · · · · · · · · · · · · · · ·	<del>, , , , , , , , , , , , , , , , , , , </del>			
Α	Inches Pitt				Description		• •				
Ap					The state of the s	product selection of a				-	
Bt'	1 <u>8 TO 14</u> "	7.5YR 5/	4, Channery,	Silt Loam, I	Moderate, Fir	ie, Subangu	lar Blocky, Fr	iable		_	
Bt	2 <u>14</u> TO <u>29</u> "	7.5YR 5/	4, Flaggy, Si	t Loam, Mo	derate, Medic	ım, Sübangu	ılar Blocky, F	riable			
Вх	29 TO 33 "		6, Very Flago								
	TO"	Common	faint redox o	iepletions ai	nd common c	listinct redox	concentration	ITIS			
	TO "	ing a second	<del>elakya dan ataungan ataun (dan kanapatan kata</del>			·	1		7	Depth to L	imiting
	San Arthur Committee Commi		<del></del>	<del>ij kura kita iliku daja adal</del> A			Mare	C //		Zone: 29	Inches
	то"						-pny	flo		- *	
	PERCOLATION TE Percolation Test C Weather Conditions Soil Conditions:	ompleted l	ow 40 F			] Diry	☐ Rain, Si	eet, Snow (last	Date: :24 hours)		
		Left	Reading	Reading No.1. Inches	Reading No.2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5; Inches	Reading No. 6: Inches	Reading No. 7: Inches	Reading No. 8: Inches
	Hole No. Yes	No	Interval	of drop	of drop	of drop	of drop	of drop	of drop	of drop	of drop
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			10/30						***************************************		
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	***Water remainli	.*	***		inute presoak	7 Yes, use 3					
	Calculation of	Average F during			Donalh				Armendi da b	e veget gladaju e. Postania	
	Hole No. final p		Perc. Rate Minutes/Ir	e as nch	Depth of Hole	with the					
		<b>1</b> 1				n n n n		The informatic correct results me, performed vision, or confusion, or confusion to the Department of t	of tests cond d under my pe irmed in a ma	ucted by	2438
	TOTAL OF MIN/IN. TOTAL No. OF HOL	ES	9	RECEIVI	S.	Min Inch		(S) () Sewage Er	ISOM Inforcement Of	(II) Y	
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	Applic					Municipa			ritain Towns			The State of the S	CALCULATE TO SERVICE T
		ocation		1111	396 King Ro	oad	S	ubd'n Nam	e	L	ot# 1 The Est	tates at Hill	Тор
	Suitabl Unsuita		☐ Mottl	ing S	De <u>Reaville Ta</u> Seeps or Ponded W Unstabilized Fill		☐ Bedrock		tures		_Ave. Perc. se Fragments	Charles Charles	80.00 Perc. Rate
					R COMPLET	ION OF T	HIS FORM	ARE LO	CATED O	N THE F	REVERSE		
S	Soil	s DESCI s Descri	RIPTIO ption C	N: omplete	by:	20 - 200	VW Cons	ultants LLC	/ MHR		Date:	1/3/22	
	In	ches	Pit#	24		1	Description	of Horizon	1			Additiona	Pits
_	0	TO 10		10YR 3	/4, Silt Loam, M	oderate, Me	edium, Granu	lar, Friable	Single Property		100-1-1	Pit #21 36	112.31
_	10	TO 24	w	10YR 5	/4, Channery, Sil	It Loam, Mo	derate, Medi	um, Subangi	ular Blocky, f	Friable	Negative Control	Pit #22 25 Pit #23 29	
_	24	TO 34	"		1/6, Very Channe		m, Weak, Co	arse, Prisma	itic, Firm	1-312	1 2 3 1		
		то	10	Commo	n distinct redox	reatures			15 14 To 15 1				
		то	"		-				Ohr	2 11	- 4 <sub>036</sub>	11	
-		то			***			- 4 4		100	7526	Depth to Zone:	Limiting
-	- 40	197								-		24	Inches
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٧	Perc Veat	colation 7	est Co ditions :	mpleted B	elow 40 F	40 F or Ab	ove [	sultants LL Dry		et, Snow (I	_ Date: ast 24 hours)	1/28/22	4 - 10 25 - 10 3
٧	Perc Veat	olation 7	est Co ditions :	mpleted  B  v	elow 40 F	Dry Fr Reading No. 1:	rozen Reading No. 2:	Reading No. 3:	Reading No. 4:	Reading No. 5:	Reading No. 6:	Reading No. 7:	Reading No. 8: Inches
٧	Perc Veat	colation 7	rest Co ditions : s: H20 **	mpleted  B  v	elow 40 F	Dry Fr	ove Cozen Reading No. 2: Inches of drop	Dry Reading	Rain, Sle	Reading	ast 24 hours) Reading	Reading	and the second s
٧	Perc Veat	her Condition Condition Hole No.	rest Co ditions : s: H20 ** Yes X	mpleted B V	Reading Interval	Reading No. 1: Inches of drop  0.250	rozen Reading No. 2: Inches of drop  0.250	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop 0.250	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	No. 8: Inches
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٧	Perc Veat	Hole No.	rest Co	mpleted B V	Reading Interval XX / 30 XX / 30 XX / 30	Reading No. 1: Inches of drop 0.250 0.500	Reading No. 2: Inches of drop 0.250 0.500	Reading No. 3: Inches of drop 0.250 0.500	Reading No. 4: Inches of drop 0.250 0.500	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	No. 8: Inches
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	Application N	STATE OF STREET		000 (4			Management and district commences and distric	Britain Tow		County	- Workship and the second	icks
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A	pplication N	10.			Municip	ality _	INCAA	Britain Town		County	Buc	
	ite Location			396 King F	Road	s	Subd'n Nam	ie _	Lot	# 2 The Est	ates at Hill T	ор
☑ Su	uitable Insuitable	☐ Mott	ling S	De Culleoka Ta: Geeps or Ponded Unstabilized Fill	Water	10%  Bedrock	Limiting Zo	-		Ave. Perc. I Fragments		31.18 erc. Rate
0.0				R COMPLE	TION OF T	THIS FORM	ARE LO	CATED O	N THE RI	EVERSE		
	OILS DESC Soils Desc			by:		VW Cons	ultants LLC	/MHR		Date:	1/3/22	
	Inches	Pit#	12		- 1	Description	of Horizon	n			Additional F	Pits
	0 TO 8		10YR 3/4	4, Channery, S	ilt Loam, Mo	derate, Very I	Fine, Suban	gular Blocky,	Very Friabl	e	Pit #9 32"+	
	8 TO 27		10YR 5/	6, Very Stony,	Silt Loam, M	oderate, Fine	, Subangula	r Blocky, Fria	ble	1 -	Pit #10 30"- Pit #11 25"-	
_	27 TO 3	2 "	10YR 5/6	3, Extremely C	hannery, Silt	Loam, Struct	ureless, Ma	ssive, Friable			_	
3	0+ TO		Bedrock					2	,,			
	_то_						4	14 /	- many	40360	Desile te ta	an terms as
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W	ERCOLATI Percolation (eather Cor	Test Co ditions	mpleted Be	elow 40 F	40 F or Ab	ove 🕗	sultants LL Dry	C / JC Rain, Sle	et, Snow (las	Date:	1/27/22	
W	Percolation eather Corbil Condition	Test Conditions :	mpleted Be W Left	elow 40 F	Reading No. 1: Inches	rozen  Reading No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	Reading No. 8: Inches
W	Percolation Peather Cor Dil Conditio	Test Conditions :	mpleted Be	Reading	Dry Final Fi	rozen  Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5:	Reading	Reading No. 7:	No. 8:
W	Percolation Peather Cor Oil Condition Hole No	Test Conditions :ns:	mpleted Be W Left	Reading Interval	Dry Fr Reading No. 1: Inches of drop	rozen Reading No. 2: Inches of drop 1.125	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	No. 8: Inches
W	Percolation Peather Cor Dil Conditio Hole No 1 2	Test Conditions :	mpleted Be W Left	Reading Interval XX / 30 XX / 30	Reading No. 1: Inches of drop 1.000 0.250	rozen  Reading No. 2: Inches of drop  1.125  0.000	Reading No. 3: Inches of drop 1.125 0.250	Reading No. 4: Inches of drop 1.125 0.250	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	No. 8: Inches
W	Percolation Peather Cor Oil Condition Hole No	Test Conditions :  H20  **  Yes  X	mpleted Be W Left	Reading Interval	Dry Fr Reading No. 1: Inches of drop	rozen Reading No. 2: Inches of drop 1.125	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches
W	Percolation Peather Cor Dil Condition Hole No 1 2 3	Test Conditions : H20 ** Yes X X	mpleted Be W Left	Reading Interval  XX / 30  XX / 30	Reading No. 1: Inches of drop  1.000  0.250  4.125	rozen Reading No. 2: Inches of drop 1.125 0.000 4.000	Reading No. 3: Inches of drop 1.125 0.250 4.250	Reading No. 4: Inches of drop 1.125 0.250 4.125	Reading No. 5; Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W	Percolation Peather Cor Dil Condition Hole No 1 2 3 4 5 6	Test Conditions : H20 ** Yes X X X X X	mpleted: Be W Left No	Reading Interval  XX / 30	Pry Framework Fr	rozen Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375	Reading No. 5; Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W	Percolation Peather Cor Peathe	Test Conditions :  H20 **  Yes  X  X  X  X  x  remaining	mpleted Be W Left No	Reading Interval  XX / 30  e at the end of ti	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir	rozen Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375	Reading No. 5; Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W So	Percolation Peather Corbil Condition Hole No 1 2 3 4 5 6 ***Water Calcula	Test Conditions : ns: H20 ** Yes X X X X remaining	mpleted Be Wellet No gin the hole Average uring	Reading Interval  XX / 30	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate:	rozen  Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250  nute presoak ?	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375	Reading No. 5; Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W So	Percolation Peather Cor Peathe	Test Conditions : ns: H20 ** Yes X X X X X remaining	mpleted Be Be W Left   W No Average uring priod	Reading Interval  XX / 30  Percolation For Perc. Rate Minutes/Interval	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate:	Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250  nute presoak ?	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop  1.125  0.250  4.125  3.625  2.750  2.375 minute interval	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W So	Percolation Peather Cor Peathe	Test Conditions :  H20 **  Yes  X  X  X  X  Temaining ation of final per 1.1: 0.2:	mpleted Be Wellete Wel	Reading Interval  XX / 30  Percolation For Perc. Rate Minutes/In 120.00	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate:	rozen Reading No. 2: Inches of drop 1.125 0.000 4.000 3.500 2.625 2.250 nute presoak ?  Depth of Hole 20 "	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop  1.125  0.250  4.125  3.625  2.750  2.375 minute interval	Reading No. 5: Inches of drop  3.875  2.500 I; No use 10	Reading No. 6: Inches of drop  3.625	Reading No. 7: Inches of drop  3.375	No. 8: Inches of drop
W So	Percolation Peather Cor Peathe	Test Conditions instructions:  H20 ** Yes X X X X X Oremaining ation of final per dinal per dina	mpleted Be Wellete Wel	Reading Interval  XX / 30  Percolation For Percolation F	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate:	rozen Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250  nute presoak ?  Depth of Hole 20 " 20 "	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375 minute interval	Reading No. 5: Inches of drop  3.875  2.500 I; No use 10  The information rect resulting, performe	Reading No. 6: Inches of drop  3.625  2.375  minute interval on provided is sof tests condidunder my pe	Reading No. 7: Inches of drop  3.375  al.  the true and ucted by rsonal super-	No. 8: Inches of drop
W So	Percolation Peather Corbil Condition Hole No 1 2 3 4 5 6 ***Water Calculation	Test Conditions ins:  H20 ** Yes X X X X  X Interpolation of June 10.11 Jule	mpleted Be Western Wes	Reading Interval  XX / 30  E at the end of the Percolation For Percolati	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate:	rozen  Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250  nute presoak ?  Depth of Hole  20  " 20 " 20 "	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375 minute interval	Reading No. 5: Inches of drop  3.875  2.500 I; No use 10  The information rect result ne, performe ision, or con	Reading No. 6: Inches of drop  3.625  2.375  minute interval on provided is s of tests cond d under my pe firmed in a ma	Reading No. 7: Inches of drop  3.375	No. 8: Inches of drop
W So	Percolation Peather Cor Peathe	Test Conditions ins:  H20 ** Yes X X X X X Interpolation of Jorop d final per design o	mpleted Be When the second sec	Reading Interval  XX / 30  E at the end of the Perc. Rate Minutes/Interval  26.67  120.00  7.27  9.60  10.91	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate:	rozen Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250  nute presoak ?  Depth of Hole 20 " 20 "	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375 minute interval	Reading No. 5: Inches of drop  3.875  2.500 I; No use 10  The information rect resulting, performe	Reading No. 6: Inches of drop  3.625  2.375  minute interval on provided is s of tests cond d under my pe firmed in a ma	Reading No. 7: Inches of drop  3.375  3.375  al.  the true and ucted by rsonal super- nner approved	No. 8: Inches of drop
Ho Ho	Percolation Peather Corbil Condition Hole No 1 2 3 4 5 6 ***Water Calculation	Test Conditions ins:  H20 ** Yes X X X X X Interpolation of June 11.11.  Drop d final per 1.11.  1.1	mpleted Be Wellete Wel	Reading Interval  XX / 30  E at the end of the Percolation For Percolati	Reading No. 1: Inches of drop  1.000  0.250  4.125  3.875  2.875  2.375 he final 30 mir Rate: as ch	rozen  Reading No. 2: Inches of drop  1.125  0.000  4.000  3.500  2.625  2.250  nute presoak ?  Depth of Hole 20 " 20 " 20 " 20 "	Reading No. 3: Inches of drop 1.125 0.250 4.250 4.000 2.875 2.625	Reading No. 4: Inches of drop 1.125 0.250 4.125 3.625 2.750 2.375 minute interval	Reading No. 5: Inches of drop  3.875  2.500 I; No use 10  The informati correct result ne, performe ision, or con by the Depart	Reading No. 6: Inches of drop  3.625  2.375  minute interval on provided is s of tests cond d under my pe firmed in a ma	Reading No. 7: Inches of drop  3.375  3.375  al.  the true and ucted by rsonal super- nner approved	No. 8: Inches of drop

	pplication No				Municip		New E		nship	County	Bucl	(S
				396 King I	Road	en de la composition	Subd'n Nan	ie	Lot	#2 The Esta	ites at Hill T	op
	ultable			Type Culleoka Ta					34"R/			15.53
U	nsuitable			Seeps or Ponded					Coarse	Fragments	Pe	erc. Rate
		Slo		Unstabilized Fill	Civing Contract							
	INSTRI OILS DESCI			OR COMPLE	TION OF	THIS FOR	MARELO	CATED C	N THE RE	VERSE	engagina i magilipa karata silaman da garaj	Physica with resistant distributions in a second
				ete by:	139443 ·	VW Con	sultants LLC	MHR	*	Date:	1/3/22	1
	Inches	Pit#	13	and was the same of a second		Descriptio	n of Horizo	n		9.5.	Additional P	its
<b>4</b> р	<u>0</u> TO <u>10</u>	H <sub>2</sub>	10YF	3/4, Silt Loam, M	loderate, Ver	y Faint, Sub	angular Bloc	ky, Frlable			Pit #14 36"+	
3t	10 TO 34	11	10YF	l 4/6, Very Stony,	Silt Loam M	oderate Fin	a Subannula	r Blocky Fr	ahla		Pit #15 36"+ Pit #16 40"+	
					One LOBING IV	oderate, r m	s, cabangais	ii Dioeky, i ii	ciote		1 10 10 10	
R <u>3</u>	<u>4+</u> _TO	•11	Ripp	able Bedrock						<u> </u>		
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The second secon	9	Х		XX / 30	4.625	4.500	5.000	4,625	4.875	4.500	4.500	4.125
	10	Х		XX / 30	2.000	1.625	1,750	1,625	1.375	1.250	1.375	1.125
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Suitable   Soil Type   Budright   Slope   1194	Application No. Site Location			Munici			Britain Tow	······································	County	The Land Control of the Control of the	cks
Unaulibable	Sultable	<del></del>						Maria de la companion de la co			
INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE  SOILS DESCRIPTION:    VW Consultants LEC / MHR		Mottling	Seeps or Ponded	Water	Bedro	ock 🔲 Fra	actures	Coars	e Fragments		<del></del>
SOILS DESCRIPTION: Soils Description Complete by: Inches Pit# 15 Description of Horizon  0 TO 8 " 10YR 3/4, Sitt Loam, Moderate, Fine, Granular, Filable  8 TO 24 " 10YR 5/4, Channery, Sitt Loam, Moderate, Fine, Granular, Filable  24 TO 36+ " 10YR 5/4, Channery, Loam, Weak, Medium, Subangular Blocky, Friable  TO "  TO "  TO "  PERCOLATION TEST: Percolation Test Completed by: Weather Conditions:	INICTO				No.			Militari de la Caracteria			elegatika penerikanan menerikan
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8 TO 24 " 10YR 5/4, Channery, Sitt Loam, Moderate, Fine, Subangular Blocky, Friable  24 TO 364 " 10YR 5/4, Very Channery, Loam, Weak, Medium, Subangular Blocky, Friable  TO "  TO "  TO "  Depth to Limiting Zone: 36* Inches  Percolation Test Completed by: Weather Conditions:					Description	n of Horiz	on				1. market 1
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PERCOLATION TEST: Percolation Test Completed by:  Weather Conditions:   Below 40 F					<del></del>		<del> </del>	***************************************	······································		Inches
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10/30   10/3	Hole No.	Yes No				6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
10/30 10/30 10/30 10/30 10/30 ***Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute intervat, No use 10 minute interval.  Calculation of Average Percolation Rate: Drop during Perc, Rate as Depth final period Minutes/Inch of Hole  """ """ """ """ """ """ """ """ """											ļ
10 / 30 10 / 30 10 / 30  ***Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute intervat. No use 10 minute interval.  Calculation of Average Percolation Rate: Drop during Perc. Rate as Depth Minutes/Inch of Hole  "" " " " " " " " " " " " " " " " " "	· · · · · <del>  - · · · ·  </del>			<u> </u>					<u> </u>		ļ
10/30   10/3			The state of the s								<del> </del>
***Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval. No use 10 minute interval.  Calculation of Average Percolation Rate:  Drop during Perc. Rate as Depth of Hole  """  The information provided is the true and correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manner approved by the Department.  TOTAL OF MIN/IN:  TOTAL OF HOLES  AND Y 2 1 7077			and the second second second second								-
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" correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manner approved by the Department.  TOTAL OF MINVIN.  TOTAL No. OF HOLES  WOY 2 1 7077  Min (s) COMMUNICATION Sewage Enforcement Officer		· .			or Hoje	ur.		The informati			
me, performed under my personal supervision, or confirmed in a manner approved by the Department.  TOTAL OF MIN/IN TOTAL No. OF HOLES  WOW 2 1 7077  WOW 2 1 7077  TOTAL No. OF HOLES						11.				A STATE OF THE STA	
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TOTAL No. OF HOLES Inch Sewage Enforcement Officer  WOY 2 1 2022	TOTAL OF MIN	17IKI		· ,	- <del> </del>	Min		/	Down	1. 11x +	1393
S NOV 2 1 2022				DEPT. OA			*****		nforcement Off	<i>J( X/ )</i>	
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			****	MATTER WILLIAM	Marie .						

	Applic					Municip			Britain Town				
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1	Suitable		☐ Mottili	ng 🗌 Se	e <u>Bedington 1</u> eeps or Ponded V Instabilized Fill	Slope _ Nater Floo	☐ Bedroo	Limiting Z k	ctures	40"+ / Coarse	Fragments	□ P	erc. Rate
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	Soil	S DESCF s Descrip	otion Co	n: omplete l	by:	25.50	VW Cons	sultants LLC	C/MHR		Date:	1/3/22	The second
	In	ches	Pit#	16		(1)	Description	n of Horizo	n			-(#)	
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Unsultable	Soli Type Culleck Tay Slope	App	olication No	0.	10	-	Municipa			ritain Town		County	Buck	
Unsuitable	Unsuitable					396 King R	load	s	ubd'n Nam	е _	Lot	# 3 The Esta	ates at Hill To	
SOILS DESCRIPTION:   Soils Description Complete by:   VW Consultants LLC / MHR   Date:   1/3/22   Additional Pits	Solls Description Complete by:   VW Consultants LLC / MHR			Mottli	ing Se	eps or Ponded V	Water	Bedrock	Frac				The same of the sa	8.85 rc. Rate
Inches	Inches	SO	ILS DESC	RIPTIO	N:						N THE RI		1/3/22	
Depth to Limiting   Depth   Dept	Pit #1 38"+   Pit #2 36"+   Pit #3 36"+   Pit #3 36"+   Pit #2 36"+   Pit #3 36"+												Additional P	its
10   10   10   10   10   10   10   10	10   10   10   10   10   10   10   10		23-280-5-5-305-6			, Silt Loam, S		1 2 MIL 1 1 MIL 1 24			, , , , , , , , , , , , , , , , , , ,			
TO   Service   To   To   To   To   To   To   To   T	TO   Start   To   To   To   To   To   To   To   T						ocupi de Meser			ular Blocky	Friable			
TO "  TO "  TO "  TO "  TO "  PERCOLATION TEST:  Percolation Test Completed by:  Weather Conditions:  □ deformation of Area and Inches	TO					one of the state of the	State of the district of the state of the st	e d'union d'union				1	, A. S. W. T. T. D. C.	
TO	TO	3	0 TO 36+		10YR 5/4	4, Very Flaggy	, Silt Loam, S	Structureless	, Massive, Fi	nable to Firm	1	120		
PERCOLATION TEST:   Percolation Test Completed by:   VW Consultants LLC / JC   Date:   1/27/22	PERCOLATION TEST:   Percolation Test Completed by   VW Consultants LLC / JC   Date:   1/27/22		TO							120	1			
PERCOLATION TEST:   Percolation Test Completed by:   VW Consultants LLC / JC   Date:   1/27/22	PERCOLATION TEST:   Percolation Test Completed by   VW Consultants LLC / JC   Date:   1/27/22		то							you	16-	40364	Danth to Lin	nitina
PERCOLATION TEST:   Percolation Test Completed by   Weather Conditions:   Below 40 F	PERCOLATION TEST:   Percolation Test Completed by   VW Consultants LLC / JC   Date: 1/27/22		то	All									Debut to Fit	niang
PERCOLATION TEST:  Percolation Test Completed by  Weather Conditions:	PERCOLATION TEST:  Percolation Test Completed by	-				and the second				***			36+	nches
Percolation Test Completed by	Petrolation Test Completed by   VW Consultants LLC / JC   Date: 1/27/22	-	_10						1 1 1 1 1 1 1 1			in		
Weather Conditions:	Weather Conditions	PE	RCOLATIO	ON TES	T:		(							
No.   Prozection   No.   Proze	No.   Conditions:   Wet				1577.6	-		-			at Coou /la		1/2//22	
Hole No.   Yes   No   Reading   No. 1:   No. 2:   No. 4:   Inches   Inche	H20 Left						AND DESCRIPTION OF THE PARTY OF		] Dry	☐ Rain, Sie	er, snow (la	st 24 flours)		
Hole No.   Yes   No   Reading Inches of drop   Inches of drop of dro	Hole No.   Yes   No   Reading   Intches   Inches   Inch	00	li Odritanioi				Reading	Reading				Sec. 120 (2012)	A STATE OF THE PARTY OF THE PAR	Reading
2	2		Hole No.	Yes	No		Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches of drop
3	3		1	Х		XX / 30	3.625	4,500	4.625	The second secon	4.250	2.625	2.500	2.500
A	4         X         X         XX/30         1.500         1.875         2.125         1.750         1.750         1.875         1.750           5         X         X         XX/30         3.250         2.875         3.000         3.000         3.000         4.125         4.12		2			10/XX			A CONTRACTOR OF THE PARTY OF TH					
Second	Signature   Sign		3					STREET, STREET			4	4.075	4.750	
6 X X X XX/30 5.000 4.000 4.375 4.125 4.375 4.125	6 X X X XX/30 5.000 4.000 4.375 4.125 4.375 4.125  ***Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No use 10 minute interval.  Calculation of Average Percolation Rate:    Drop during final period   Perc. Rate as Minutes/Inch   Of Hole					THE STATE OF THE PARTY OF THE P	out a second appropriate to			The second secon			1.750	-
###Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No use 10 minute interval.  Calculation of Average Percolation Rate:    Drop during final period	#***Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No use 10 minute interval.  Calculation of Average Percolation Rate:    Drop during final period		A 100 mm = 10											
Drop during   Ferc. Rate as   Depth   of Hole	Calculation of Average Percolation Rate:   Drop during final period   Perc. Rate as   Depth		6 ***Water	remaining	g in the hol	e at the end of t	5.000] the final 30 mi	nute presoak	4.375] Yes, use 30	minute interv				
Hole No.   final period   Minutes/Inch   of Hole	Hole No. final period Minutes/Inch of Hole  1													
2     2.750       3     3.250       4     1.750       5     3.000       6     4.125       4     7.27       20     0       8.85     Min       (S)       Correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manner approved by the Department.       5     3.000       8.85     Min	2       2.750       "       3.64       20       "       correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manner approved         4       1.750       "       17.14       20       "       vision, or confirmed in a manner approved         5       3.000       "       10.00       20       "       by the Department.         6       4.125       "       7.27       20       "         TOTAL OF MINVIN.       53.13       =       8.85       Min       (s)       (s)	Ho	le No.	Drop d	uring eriod								i de la companya de l	Name of the last o
3       3.250       "       3.08       20       "       me, performed under my personal supervision, or confirmed in a manner approved         4       1.750       "       17.14       20       "       vision, or confirmed in a manner approved         5       3.000       "       10.00       20       "       by the Department.         6       4.125       "       7.27       20       "         TOTAL OF MIN/IN.       53.13       =       8.85       Min       (S)       (S)	3   3.250   3.08   20   me, performed under my personal super-   4   1.750   17.14   20   vision, or confirmed in a manner approved     5   3.000   10.00   20   by the Department.     6   4.125   7.27   20		1			AND DESCRIPTION OF THE PERSON NAMED IN		20						
4     1.750     "     17.14     20     "     vision, or confirmed in a manner approved by the Department.       5     3.000     "     10.00     20     "     by the Department.       6     4.125     "     7.27     20     "       TOTAL OF MIN/IN.     53.13     =     8.85     Min     (S)     (S)	4     1.750     "     17.14     20     "     vision, or confirmed in a manner approved by the Department.       5     3.000     "     10.00     20     "     by the Department.       6     4.125     "     7.27     20     "       TOTAL OF MIN/IN.     53.13     8.85     Min     (S)			Bernard Comment		Name and Address of the Owner, when the Owner, which the								
5     3.000     "     10.00     20     "     by the Department.       6     4.125     "     7.27     20     "       TOTAL OF MIN/IN.     53.13     =     8.85     Min     (s)     (s)	5     3.000     "     10.00     20     "     by the Department.       6     4.125     "     7.27     20     "       TOTAL OF MIN/IN.     53.13     =     8.85     Min     (s)     (s)	_	-	-	30	Married State of the Owner, where the Party of the Owner, where the Owner, which the Owner,		20	- 1					
6 4.125 " 7.27 20 "  TOTAL OF MIN/IN. 53.13 = 8.85 Min (s) 4 293	6 4.125 " 7.27 20 "  TOTAL OF MIN/IN. 53.13 = 8.85 Min (s) (S	-			-								approved	
TOTAL OF MIN/IN. 53.13 = 8.85 Min (s) (S) (S)	TOTAL OF MIN/IN. 53.13 = 8.85 Min (S) (S) (S)	_				The second secon					1	N	1.4	3938
		4							1000		- / /	111	AHAM	- 10 O
		TC	TAL OF M	IIN/IN		53.13	=	8.85	Min		(S) (	INM	IN	

	Application No Site Location			Munici			Britain Tow	THE PERSON NAMED AND POST OFFICE ASSESSMENT	County	· Treff Colored Tree Colored Tr	cks
	Sultable	***************************************								ates at Hill	TOP
1	and the second	Mottling	oil Type Culleck Tax Seeps or Ponded Unstabilized Fill	Water	Bedro	ock 🔲 Fr	actures	Coarse	Ave. Perc.   Fragments		Perc. Rate
	INSTRI		S FOR COMPLE					PRINCIPLE IN COLUMN TWO IS NOT THE OWNER.		and the same of th	and the second s
	SOILS DESCR	RIPTION:	plete by:		** *	nsultants LL		<u> </u>	Date:	1/3/22	
	Inches	Pit# 5				n of Horiz	A STATE OF THE PARTY OF THE PAR				
Αp	<u>0 TO 10</u>	" <u>10</u>	YR 3/4, Channery, S	Silt Loam, M	oderate, Fine	e, Granular, l	-rlable	<u></u>	Mary Service Services		
Bt	<u>10_</u> TO_ <u>31</u> _	" <u>1</u>	0YR 5/4, Very Chani	nery, Silt Loa	am, Moderat	e, Fine, Suba	angular Block	y, Friable	44.44.1.		
С	31 TO 36+	u 4	0YR 5/4, Extremely (	Channery, L	oam, Structu	reless. Mass	ive. Friable				
	то	ij.				2121.0 D24.1035;70	$\langle \cdot \rangle$		1	· Control of the second of the	
	ТО							of b			
		resident.						1 12	coer_	Depth to Li	imiting
	ТО									Zone: 36+	Inches
	TO										
Secretora:	PERCOLATIO										
	Percolation T Weather Cond	· ·	oleted by:  Below 40 F	∏ag co- A	hada [	Dry	∏ Dain '€i	eet, Snow (las	Date:		
	Soil Conditions			Dry		11 P. X	F. Larent Co	eet, stow (ias	LZTHOUIS)		
		H20 Left		Reading No 1:	Reading No. 2:	Reading No. 3:	Reading No.4:	Reading No. 5:	Reading No. 6:	Reading No. 7:	Reading No. 8:
	Hole No.	Yes N	Reading lo Interval	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop
			10730								
			10/30								
			10/30 10/30								
			10730			<u></u>					
			10 / 30								
			the hole at the end of erage Percolation		inute presoak	7 Yes, use 3		*	•		
	energian i de la company	Drop durir	ng Perc. Rate	e as	Depth			en gelagni iku merangi. Programi iku merangi			
	Hole No.	final perio			of Hole	n,		The information	on provided is	this trips and	
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	en e	o en periodis. Periodise	0			H H			d under my pe	rsonal super- nner approved	
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	TOTAL OF MII TOTAL No. OF			き いEとんっこ		Min Inch		(S) // Sewage Er	<u>イソ(入/ \/</u> nforcement Of	(NUN)	
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			S REC	Andrea W. More	*4						
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			Co.	41.10							
			23. March	** * # * * *							•

	Applic				000 Ki - D		100		Britain Town		4 2 The Est	ates at Hill T	on
	Site Li Suitable			191-11	396 King R			Subd'n Nan	William V				ΟΡ
	Unsuita			ng 🔲 Se	eps or Ponded Verstabilized Fill		☐ Bedroo			- Contraction -	Ave. Perc. f Fragments	A 10 TO 10 T	erc. Rate
					COMPLET	TION OF	THIS FOR	M ARE LC	CATED O	N THE RE	VERSE		
0	SOILS	S DESCI s Descri	RIPTION	V: omplete b	ру:		VW Cons	sultants LLC	C/MHR		Date:	1/3/22	
		ches	Pit#				Description					Ma 1/1/2	
	0	TO_10	11	10YR 3/4	4, Channery, S	ilt Loam, Mo	oderate, Fine	, Subangula	r Blocky, Fria	ible		=	
	10	TO 25		10YR 5/4	4, Channery, S	Silt Loam, Me	oderate, Fine	, Subangula	r Blocky, Fria	able		100	AT Et
7				- 1-1-1	And the state of t								
-		TO 30+		1018 5/4	4, Extremely FI	laggy, Silt L	oam, vveak,	iviedium, Gra	Allulat, Pliabl		0	-	
-		то	n .			50.			Uh.	1. 1	/	-	
-		то	n	714					pn	of Ko	wer	Depth to Li	miting
		то	10									Zone:	
Ī		то	11									30+	Inches
		-											
1	Perc Weat	COLATIC colation of ther Condition	est Conditions:	npleted	low 40 F	☐ 40 F or Al		Dry	Rain, Si	eet, Snow (las	Date: t 24 hours)		# 14 m
1	Perc Weat	her Condition	est Conditions:	mpleted   Be We	low 40 F	Dry GReading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	No. 8: Inches
1	Perc Weat	colation of the condition of the condition of the color o	est Conditions : s:	mpleted   Be We	Reading	Dry Seading No. 1:	Frozen Reading No. 2:	Reading No. 3:	Reading No. 4:	Reading No. 5:	Reading No. 6:	No. 7:	No. 8:
1	Perc Weat	her Condition	ditions : s:	mpleted   	Reading Interval	Dry GReading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	Inches
1	Perc Weat	her Condition	ditions : s:	mpleted   	Reading	Dry GReading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
1	Perc Weat	her Condition	ditions : s:	mpleted   	Reading Interval	Dry GReading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
1	Perc Weat	her Condition	ditions : s:	mpleted   	Reading Interval 10 / 30 10 / 30 10 / 30	Dry GReading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
1	Perc Weat	her Condition Condition Hole No.	rest Conditions:	mpleted Be West	Reading Interval 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4; Inches of drop	Reading No, 5: Inches of drop	Reading No. 6: Inches of drop	No. 7: Inches of drop	No. 8: Inches
1	Perc Weat	her Condition  Hole No.	remaining	mpleted Be West	Reading Interval 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 e at the end of test	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4; Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	No. 7: Inches of drop	No. 8: Inches of drop
1	Perc Weat	her Condition  Hole No.	remaining tion of A	mpleted Be Be Wineft No  in the hole Average	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of the Percolation F	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4; Inches of drop	Reading No, 5: Inches of drop	Reading No. 6: Inches of drop	No. 7: Inches of drop	No. 8: Inches of drop
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\	Perc Weath Soil C	her Condition Condition Hole No.  ***Water Calcula	remaining tion of A	mpleted Be Weft No In the hole Average uring iriod "	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of the Percolation Ferc. Rate	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4; Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	No. 7: Inches of drop	No. 8: Inches of drop
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1	Perc Weath Soil C	her Condition Condition Hole No.  ***Water Calcula	remaining tion of A	mpleted Be Weft No  in the hole Average uring iriod """ """	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of the Percolation Ferc. Rate	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop  ? Yes, use 3	Reading No. 4; Inches of drop	Reading No. 5: Inches of drop  val; No use 10  The informati correct result me, performe vision, or corr	Reading No. 6: Inches of drop  ominute intervious of tests conced under my position a maintenance of the concedition of the con	No. 7: Inches of drop  al.  at the true and ducted by ersonal super-	No. 8: Inches of drop
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Perc Weath Soil C	her Condition  Hole No.  ***Water  Calcula	remaining tion of / Drop d final pe	npleted Be Weft No  in the hole Average uring ariod """" """ """ """ """ """ """ """ """	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of the Percolation Ferc. Rate Minutes/In	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop  ? Yes, use 3	Reading No. 4; Inches of drop	Reading No. 5: Inches of drop  val; No use 10  The informati correct result me, performe vision, or cor by the Depar	Reading No. 6: Inches of drop  ominute intervious of tests conced under my position a maintenance of the concedition of the con	No. 7: Inches of drop  al.  athe true and ducted by ersonal super-anner approved	No. 8: Inches of drop

1 1 1 1 1 1 1 1 1 1 1 1	lication N				Munici	pality	New	<b>Britain Tow</b>	nship	County	Bu	cks
			<u></u>	396 King	Road		Subd'n Na	me	Lo	it# 3 The Es	tates at Hill	Тор
✓ Suita	ibie iltable			Type Culleok Tax Seeps or Ponded			Limiting :	*****		Ave. Perc. e Fragments		Perc. Rate
		sı		Unstabilized Fill			Other		L 4 Cours	ic reagnicates		reservingees
Training to the U.S. providing directions	INSTR	HCTIC		OR COMPLE					9M-TUE-13	EVEDCE		
	LS DESC	RIPTIC	N:	•					ala i ue b	EVENOE		1827 y St. 2727. Balance e e e e e e
	oils Descr	CANAL CO.		rte by:		VW Cor	nsultants LL	C/MHR		Date:	1/3/22	aj yraji
- 1	Inches	Pit#	7			Description	on of Horiz	on				
<u> </u>	_TO_ <u>11</u>		10YR	3/4, Channery, S	Silt Loam, M	oderate, Fin	e, Granular, I	-riable			_	
11	TO 28	. <b></b>	10YF	R 5/4, Very Chan	nerv Silf Lo	am Moderat	e Fine Subs	indular Block	ov Friable			
	— В ТО 40+	<del></del>		R 5/4, Extremely 0			The right of the state of the s					
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	TO	u.					*		1 / -		Depth to L	imiting
•		4	<del></del>								_Zone: <b>40+</b>	Inches
· <del>***</del>	_то	— ·						<u> </u>		<del>ئىدىن ئىدىن ئۇيلىرى ئىدىكىدى</del>		
DEC	OOLATI	5 N I T C C	\-\-									
	RCOLATION TO THE COLATION TO T			ed by:			. Ajós köle Markóvák váltás			Date:		
	ther Con		N	Below 40 F	☐ 40 F or A	lbove	Dry	Rain, S	leet, Snow (la			unione de la company
Soil	Condition		107 17	] Wet $\Box$	Dry 🔲	Frozen						
New Art		H20	Left *		Reading No. 1:	Reading No. 2:	Reading No. 3.	Reading No. 4:	Reading No. 5:	Reading No. 6;	Reading No. 7:	Reading No. 8:
ir Valt	Hole No.	Yes	No	Reading Interval	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches
	TIDIC NO.	100	1.0	10/30	of drop	of drop	of drop	of drop	of drop	of drop	of drop	of drop
				10730								ļ
m sakaran sa				10/30			MARKA					
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				10/30								
		·.	4.0	hole at the end of		inute presoak	? Yes, use 3	• • • • • • • • • • • • • • • • • • • •				
	Calcula			ge Percolation I		r Programmer Programmer				e di Pergentani		e k
Hole	No.	Drop d	uring eriod	Perc. Rate Minutes/In	e as ich	Depth of Hole	ેલ કોલ્ક્ટ્રેલ જુકુલ કર્યો					
		e juganja tj	aga daga A	kang ng sanggagan		· (	u.		The informat	ion provided is	the true and	
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ТОТ	AL OF M	N/IN.			Lucri, O		Min		(S) ()	Drin	a i a V A	アグイに
	AL No. O		ΞS	32	DENTED	*C-	Inch			nforcement Of	ficer	
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1.4	pplication N	_			Municipa			ritain Towns		County	Buck	5-0-
	ite Location	-	1 - 5	396 King Ro	oad	S	lubd'n Nam	e _	Lot#	3 The Esta	tes at Hill To	op
☑ Sui	iitable nsuitable		ng 🗌 S	eeps or Ponded W	Vater	☐ Bedrock	Limiting Zo	tures	Coarse	Ave. Perc. R Fragments		7.55 erc. Rate
	INSTR	UCTIO		COMPLET			ARE LO	CATED OF	N THE RE	VERSE		7
SC	OILS DESC	RIPTIO	N:	by:							1/3/22	A DATE
	Inches	Pit#	8			Description	of Horizon	1		8.14	Additional P	its
0	0 TO 7	"	10YR 3/4	, Channery, Sill	t Loam, Stro	ong, Fine, Gr	anular, Friab	le	d. Jan 22		Pit #5 36"+	
	7 TO 29+	"	10YR 5/4	, Very Channer	ry, Silt Loam	, Moderate,	Fine, Subang	gular Blocky,	Friable		Pit #6 30"+ Pit #7 40"+	
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W	ERCOLATION Percolation Veather Concold Condition	Test Co	mpleted	elow 40 F	]40 For Ab Dry ☑ Fr	ove 🗸	sultants L L ] Dry		et, Snow (last	Date: 24 hours)	1/27/22	
W	Percolation leather Con	Test Co	mpleted  Be  West	elow 40 F		ove 🗸			et, Snow (last Reading No. 5: Inches		Reading No. 7: Inches	Reading No. 8: Inches
W	Percolation  /eather Con oil Condition  Hole No.	Test Colditions :	mpleted  Be  West	Reading Interval	Dry Fr Reading No. 1: Inches of drop	rozen  Reading  No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W	Percolation /eather Con oil Condition  Hole No.	Test Colditions :	mpleted  Be  West	Reading Interval	Pry Fr Reading No. 1: Inches of drop	rozen  Reading No. 2: Inches of drop  2.875	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop 2.875	Reading No. 6: Inches of drop 2.750	Reading No. 7: Inches of drop 2.500	No. 8: Inches of drop
W	Percolation  /eather Con oil Condition  Hole No. 7 8	Test Colditions :	mpleted Be Weft	Reading Interval  XX / 30  XX / 30	Reading No. 1: Inches of drop 3.500 5.375	rozen  Reading No. 2: Inches of drop  2.875  4.875	Reading No. 3: Inches of drop 3.250 5.000	Reading No. 4: Inches of drop 2.500 4.625	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches of drop
W	Percolation  /eather Con oil Condition  Hole No. 7 8 9	Test Colditions :	mpleted  Be  Weft  No	Reading Interval XX / 30 XX / 30 10 / XX	Reading No. 1: Inches of drop 3.500 5.375 4.125	rozen Reading No. 2: Inches of drop 2.875 4.875 4.250	Reading No. 3: Inches of drop 3.250 5.000 4.125	Reading No. 4: Inches of drop 2.500 4.625 4.250	Reading No. 5: Inches of drop 2.875	Reading No. 6: Inches of drop 2.750	Reading No. 7: Inches of drop 2.500	No. 8: Inches
W	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10	Test Codditions : as:  H201 Yes X	mpleted  Be  Weft  No  X  X	Reading Interval  XX / 30  XX / 30  10 / XX	Pry Fragrand Property	Reading No. 2: Inches of drop 2.875 4.250 3.750	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750	Reading No. 5: Inches of drop 2.875 4.625	Reading No. 6: Inches of drop 2.750 4.000	Reading No. 7: Inches of drop 2.500 4.500	No. 8: Inches of drop 2.500 4.250
W	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11	Test Colditions :	mpleted  Be  Weft  No	Reading Interval XX / 30 XX / 30 10 / XX 10 / XX XX / 30	Dry	rozen  Reading No. 2: Inches of drop  2.875  4.875  4.250  3.750  4.250	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000	Reading No. 5: Inches of drop 2.875 4.625	Reading No. 6: Inches of drop 2.750	Reading No. 7: Inches of drop 2.500 4.500	No. 8: Inches of drop
W	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11	Test Conditions: Institute   I	mpleted  Be Weft  No  X  X  X	Reading Interval  XX / 30  XX / 30  10 / XX	Dry	rozen  Reading No. 2: Inches of drop  2.875  4.875  4.250  3.750  4.250  3.500	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625	Reading No. 5: Inches of drop 2.875 4.625	24 hours)  Reading No. 6: Inches of drop 2.750 4.000  2.625 3.500	Reading No. 7: Inches of drop 2.500 4.500 2.750 3.625	No. 8: Inches of drop 2.500 4.250
W	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water	Test Coditions:  ditions:  H201  Yes  X  X  x  remaining	mpleted  Be No  X  X  X  X  g in the ho	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  XX / 30  XX / 30  Percolation R	Dry	Reading No. 2: Inches of drop 2.875 4.250 3.750 4.250 3.500 nute presoak 7	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625	Reading No. 5: Inches of drop 2.875 4.625	Reading No. 6: Inches of drop 2.750 4.000	Reading No. 7: Inches of drop 2.500 4.500 2.750 3.625	No. 8: Inches of drop 2.500 4.250
W Sc	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calcula	Test Coditions:  ditions:  H201  Yes  X  X  Temperature of A  Drop d	weft No X X X X X X X X Average uring	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30	Dry	rozen Reading No. 2: Inches of drop 2.875 4.875 4.250 3.750 4.250 3.500 nute presoak	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625	Reading No. 5: Inches of drop 2.875 4.625	24 hours)  Reading No. 6: Inches of drop 2.750 4.000  2.625 3.500	Reading No. 7: Inches of drop 2.500 4.500 2.750 3.625	No. 8: Inches of drop 2.500 4.250
W Sc	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water	Test Coditions: as: H201 Yes X X remaining ation of A	weft Weft No X X X X X X X X X X X X X X X X X X	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  E at the end of the Percolation R Perc. Rate Minutes/Inc.	Dry	Reading No. 2: Inches of drop 2.875 4.875 4.250 3.750 4.250 3.500 nute presoak	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interval	Reading No. 5: Inches of drop 2.875 4.625 3.375 4.250 al; No use 10	Reading No. 6: Inches of drop 2.750 4.000	Reading No. 7: Inches of drop 2.500 4.500 2.750 3.625	No. 8: Inches of drop 2.500 4.250
W Sc	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calculation	Test Coditions:  ditions:  H201  Yes  X  X  Temperature of A  Drop d	weft  No  X  X  X  X  X  Average uring eriod  00 "	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  Eat the end of the Percolation R  Perc. Rate	Dry	Reading No. 2: Inches of drop 2.875 4.875 4.250 3.750 4.250 3.500 nute presoak 3	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interve	Reading No. 5: Inches of drop 2.875 4.625 3.375 4.250 al; No use 10	Reading No. 6: Inches of drop 2.750 4.000	Reading No. 7: Inches of drop 2.500 4.500 2.750 3.625	No. 8: Inches of drop 2.500 4.250
W Sc	Percolation /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calculation Oile No. 7 8 9	Yes X X X remaining ation of A Drop d final pe  2.50 4.28	weft No X X X X X X X X X X X X X X X X X X	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  Ite at the end of the Percolation R Perc. Rate Minutes/Inc.  12.00  7.06  2.35	Dry	Reading No. 2: Inches of drop 2.875 4.875 4.250 3.750 4.250 3.500 nute presoak 3 Depth of Hole 20 20 20	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interva	Reading No. 5: Inches of drop 2.875 4.625  3.375 4.250 al; No use 10	Reading No. 6: Inches of drop 2.750 4.000 2.625 3.500 minute interval on provided is to of tests condud under my per	Reading No. 7: Inches of drop 2.500 4.500  2.750 3.625  he true and icted by sonal super-	No. 8: Inches of drop 2.500 4.250
W Sc	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calculation  Calculation	Yes X X X remaining ation of A Drop d final pe 2.50 4.20 4.20 3.76	weft No X X X X X X X X X X X X X X X X X X	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  Eat the end of the Percolation R Perc. Rate Minutes/Inc.  12.00  7.06  2.35  2.67	Dry	Reading No. 2: Inches of drop 2.875 4.250 3.750 4.250 3.500 nute presoak?	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interva	Reading No. 5: Inches of drop 2.875 4.625 3.375 4.250 al; No use 10 The informatic correct results me, performer vision, or conf	Reading No. 6: Inches of drop 2.750 4.000  2.625 3.500 minute interval on provided is to of tests conducted under my per- firmed in a man	Reading No. 7: Inches of drop 2.500 4.500  2.750 3.625  he true and icted by sonal super-	No. 8: Inches of drop 2.500 4.250
W Sc	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calculation  Calculation	Test Coditions: as: H201 Yes X X  X remaining ation of A Drop d final pe 2.56 4.29 3.79 2.50	weft No X X X X X X X X X X X X X X X X X X	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  E at the end of the Minutes/Inc  12.00  7.06  2.35  2.67  12.00	Dry	Reading No. 2: Inches of drop 2.875 4.250 3.750 4.250 3.500 nute presoak 3 Depth of Hole 20 20 20 20 20	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interva	Reading No. 5: Inches of drop 2.875 4.625  3.375 4.250 al; No use 10	Reading No. 6: Inches of drop 2.750 4.000  2.625 3.500 minute interval on provided is to of tests conducted under my per- firmed in a man	Reading No. 7: Inches of drop 2.500 4.500 3.625 I. The true and Inches I	No. 8: Inches of drop 2.500 4.250 2.500 3.25
P W Sc	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calculation  Ole No. 7 8 9 10 11 12 12	Yes X X X  remaining ation of A 2.50 4.22 3.73 2.50 3.23	weft No X X X X X X X X X X X X X X X X X X	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  Ite at the end of the Percolation R Perc. Rate Minutes/Inc  12.00  7.06  2.35  2.67  12.00  9.23	Dry	Reading No. 2: Inches of drop 2.875 4.875 4.250 3.750 4.250 3.500 nute presoak 3 Depth of Hole 20 20 20 20 20 20 20 20 20 20 20	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 P Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interva	Reading No. 5: Inches of drop 2.875 4.625  3.375 4.250 al; No use 10  The information correct results me, performer by the Department of the correct of the	Reading No. 6: Inches of drop 2.750 4.000  2.625 3.500 minute interval on provided is to of tests conducted under my per- firmed in a man	Reading No. 7: Inches of drop 2.500 4.500 3.625 I. The true and Inches I	No. 8: Inches of drop 2.500 4.250
Ho Ho	Percolation  /eather Con oil Condition  Hole No. 7 8 9 10 11 12 ***Water Calculation  Calculation	Yes  X  X  X  Yes  X  X  Aremaining ation of A  Drop d final pe  2.50  4.20  4.20  3.70  2.51  3.20  IIIV/IN.	weft   Weft   We we will be with a second wi	Reading Interval  XX / 30  XX / 30  10 / XX  10 / XX  XX / 30  XX / 30  E at the end of the Minutes/Inc  12.00  7.06  2.35  2.67  12.00	Dry	Reading No. 2: Inches of drop 2.875 4.250 3.750 4.250 3.500 nute presoak 3 Depth of Hole 20 20 20 20 20	Reading No. 3: Inches of drop 3.250 5.000 4.125 3.750 3.625 3.875 P Yes, use 30	Reading No. 4: Inches of drop 2.500 4.625 4.250 3.750 3.000 3.625 minute interva	Reading No. 5: Inches of drop 2.875 4.625  3.375 4.250 al; No use 10  The information correct results me, performer by the Department of the correct of the	Reading No. 6: Inches of drop 2.750 4.000  2.625 3.500 minute interval on provided is to of tests conducted under my per- firmed in a man	Reading No. 7: Inches of drop 2.500 4.500  2.750 3.625   the true and acted by sonal super- oner approved	No. 8: Inches of drop 2.50 4.25 3.25

Site Locati	Acres and the second	mind the second		396 King F			New Subd'n Na	Continued to Continue and Add and a Parish and	and the state of the state of the first of the		Buc ates at Hill 7	
Sultable Unsultable	E		19 [	Type <u>Culleoka</u> Seeps or Ponded Unstabilized Fili	Water	Bedro		actures				erc. Rate
SOILS DE	SCR script	IPTION ion Co Pit#	l; mpl∈ 42	OR COMPLE  te by:  3/4, Channery, S		VW Cor	nsultants LL on of Horize	C/MHR on			<u>1/3/22</u>	and the second s
<u>10</u> TO <u>30</u> TO S TO_	36+ "			3 5/4, Silt Loam, f					-7-7	ubangular Bl		
TO_ TO									1 /		Depth to Li Zone: 36+	miting Inches
PERCOLA Percolati Weather C Soil Condi	on Te Condi	est Cor tions :	nplei [	Below 40 F	40 F or A ] Dry	1.00 (1.00 ) A 10 (1.00 )	Dry	. Rain, S	leet, Snow (las	Date: st 24 hours)		
Hote	No.	H20 L *** Yes		Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	Reading No. 8: Inches of drop
				10 / 30 10 / 30 10 / 30								
***•W	/ater re	emalning	ı ih the	10 / 30 10 / 30 a hole at the end of	the final 30 n	ninute presoal	k ? Yes, use ?					
Cal		on of <i>I</i> Drop di final pe	uring	age Percolation Perc. Rate Minutes/ir * * * * * * * * * * * * * * * * * * *	e as	Depth of Hole			The informat correct resul me, perform	ion provided is ts of tests conc ad under my pe hifirmed in a ma	lucted by	
TOTAL O			ŝ∵	" GONTALO PECCE NOV 2	EPT ON S	<b>.</b>	Min Inch		(S) O	Enforcement O	ALL) Ifficer	#393
				Potesman	A VOIMMA	Ş Ç Ç						

					Municip	A. A		Britain Tow	and the same of the same of the same of			
Section 1				396 King	Road		Subd'n Nar	ne	Lo	# 4 The Est	tates at Hill	Тор
	uitable nsuitable		ling Se	e Culleoka eeps or Ponded Instabilized Fill	Water	☐ Bedro	Limiting Z ck	ictures	A STATE OF THE PERSON NAMED IN	Ave. Perc. Fragments	Rate	Perc. Rate
1 1 1 1 1				COMPLE	TION OF	THIS FOR	M ARE LO	CATED C	N THE R	EVERSE		
S	OILS DESC Soils Descr	RIPTIO iption C	N: omplete b	ру:	8 0	VW Con	sultants LL	C/MHR		Date:	1/3/22	
	Inches	Pit#	43			Descriptio	n of Horizo	on				
Αр	0 TO 10	u	10YR 3/4	, Silt Loam, N	loderate, Fir	ne, Granular,	Friable	A 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-	
3t _	10 TO 24		10YR 5/4	4, Channery,	Silt Loam, M	loderate, Me	dium, Suban	gular Blocky	Friable			
3C	24 TO 36 "		10YR 5/4, Very Gravelly, Silt Loam, Structureless, Massive, Friable									
	36+ TO		Bedrock					0)		1	-	
	то	100						The	of K	ins		
-			1 Passer						N. Jack	Depth to I	imiting	
-	то				-						Zone:	Inches
_	TO					the state of the last						
S	oil Condition	ns:	☐ We	et [	Dry 🔲	Frozen						
		H20	Left	et	Reading No. 1: Inches	Frozen  Reading  No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	Reading No. 7: Inches	Reading No. 8: Inches
	Hole No.	H20	Left	Reading Interval	Reading No. 1:	Reading No. 2:	No. 3:	No. 4:	No. 5:	No. 6:	No. 7:	No. 8:
		H20	Left	Reading Interval	Reading No. 1: Inches	Reading No. 2: Inches	No. 3: Inches	No. 4: Inches	No. 5: Inches	No. 6: Inches	No. 7: Inches	No. 8; Inches
		H20	Left	Reading Interval 10 / 30	Reading No. 1: Inches	Reading No. 2: Inches	No. 3: Inches	No. 4: Inches	No. 5: Inches	No. 6: Inches	No. 7: Inches	No. 8; Inches
		H20	Left	Reading Interval	Reading No. 1: Inches	Reading No. 2: Inches	No. 3: Inches	No. 4: Inches	No. 5: Inches	No. 6: Inches	No. 7: Inches	No. 8; Inches
		H20	Left	Reading Interval 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30	Reading No. 1: Inches	Reading No. 2: Inches	No. 3: Inches	No. 4: Inches	No. 5: Inches	No. 6: Inches	No. 7: Inches	No. 8; Inches
	Hole No.	H20 *** Yes	Left No	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop	No. 6: Inches of drop	No. 7: Inches of drop	No. 8; Inches
	Hole No.	Yes Yes	Left No No	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  2 at the end of	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop	No. 6: Inches of drop	No. 7: Inches of drop	No. 8; Inches
Sc	Hole No.	Yes Yes	No No Sin the hole Average Furing	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop	No. 6: Inches of drop	No. 7: Inches of drop	No. 8; Inches
Sc	Hole No.	Yes Yes remaining	No N	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of Percolation  Perc. Rate	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop	No. 6: Inches of drop	No. 7: Inches of drop	No. 8; Inches
Sc	Hole No.	Yes Yes remaining	No N	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of Percolation  Perc. Rate Minutes/In	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop  val; No use 10  The informatic correct result	No. 6: Inches of drop	No. 7: Inches of drop	No. 8; Inches
Sc	Hole No.	Yes Yes remaining	No N	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of Percolation  Perc. Rate Minutes/In	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop  val; No use 10  The informati correct result me, performe	No. 6: Inches of drop	No. 7: Inches of drop  al. the true and lucted by ersonal super-	No. 8: Inches of drop
Sc	Hole No.	Yes Yes remaining	No N	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of Percolation  Perc. Rate Minutes/In	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop  val; No use 10  The informati correct result me, performe	No. 6: Inches of drop  on provided is s of tests condid under my performed in a market.	No. 7: Inches of drop  al. the true and lucted by ersonal super-	No. 8: Inches of drop
Ho	***Water Calcula ble No.	Yes  Yes  Temaining tition of a Drop d final pe	No N	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of Percolation  Perc. Rate Minutes/In	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop  ? Yes, use 30	No. 4: Inches of drop	No. 5: Inches of drop  ral; No use 10  The informati correct result me, performe vision, or con by the Depart	No. 6: Inches of drop  on provided is s of tests condid under my performed in a market.	No. 7: Inches of drop  al. the true and lucted by ersonal super-	No. 8: Inches of drop
Ho Ho	Hole No.	Yes  Yes  Termaining tition of a Drop d final pe	g in the hole Average I uring	Reading Interval  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  10 / 30  e at the end of Percolation  Perc. Rate Minutes/In	Reading No. 1: Inches of drop  the final 30 m Rate:	Reading No. 2: Inches of drop	No. 3: Inches of drop	No. 4: Inches of drop	No. 5: Inches of drop  ral; No use 10  The informati correct result me, performe vision, or con by the Depart	No. 6: Inches of drop  on provided is s of tests condid under my performed in a market.	No. 7: Inches of drop	No. 8: Inches of drop

	Applica Site Lo	ation No eation			396 King	Municij Road					County t#.4 The Est		
	] Suitable ] Unsuital			Soil Ty ing 🔲 :	De <u>Culleoka</u> Seeps of Ponded	Slope Water	10%	Limiting 2	one ctures	36"+  Coars	Ave. Perc. I	Rate	9999
p	SOILS Soils Inc	DESCF Descrip t <b>hes</b>	RIPTIO stion Co Pit#	N: omplete 44	R COMPLE by: 3, Channery, 5	# 198	VW Con	sultants ELu n of Horizo	O/MHR on		_ Date:	1/3/22	
W	<u>8</u> ]	ГО <u>_28_</u>	11	10YR 5	/4, Channery,	Silt Loam, V	/eak, Fine, S	ubangular Bl	ocky, Friable	)			
	28 7	ΓΟ 36+	NI.	10YR 5	/4, Extremely I	Flaggy, Silt L	.oam, Structi	ureless, Mass	sive, Friable				
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	Hole N	Calculat	lion of A	Average uring striod	Ŝ	Rate: e as e as nch  Try DEPT RECEIVE	Depth of Hole	" " " Min Inch		The informaticorrect resultine, perform vision, or could by the Department (S)	lion provided is ts of tests conc ed under my pe nfirmed in a ma	the true and lucted by arsonal super- anner approved	13139
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A	Application N	-										
S	Site Location			396 King F	Road	5	Subd'n Nam	ie _	Lot	4 The Esta	ates at Hill T	ор
	iuitable Insuitable	☐ Mottl	ing See	Culleoka ps or Ponded stabilized Fill	Slope _ Water Floor	☐ Bedrock	Limiting Zook Prace	_	32"+ / Coarse	Ave, Perc. R Fragments		25.35 erc. Rate
S	INSTR SOILS DESC Soils Descri	RIPTIO	N:		TION OF T				N THE RE	VERSE Date:	1/3/22	50
			N 2 mm m 19			6 - X Maria	5 2/61					ita
	Inches	Pit#				Description		n			Additional P	
р _	0 TO 10	- "	10YR 3/4,	Siit Loam, M	loderate, Fine	e, Granular, I	-nable				Pit #42 36"+ Pit #43 36"F	
t _	10 TO 32	."	10YR 5/4,	Channery, S	silt Loam, Mo	derate, Fine,	Subangular	Blocky, Frial	ole		Pit #44 36"+	
12.	TO	-										
	то	Ü										
	TO		(minute)					Cho	19 1	40364		
-	TO	•		de-sur-				1.6	16-	-	Depth to Lir	niting
_	TO	"									Zone: 32+ I	nehon
	то	11									JZT	nches
V	PERCOLATION Percolation Veather Condition	Test Co	mpleted by	w 40 F	40 F or Ab	ove 🗵	sultants LL ] Dry		et, Snow (last	Date: 24 hours)	1/26/22	
V	Percolation Veather Condition Hole No. 1 2 3	rest Co ditions : is: H201 *** Yes X X	mpleted by  Belo  Wet	Reading Interval  XX / 30  XX / 30  XX / 30	Reading No. 1: Inches of drop 3.500 3.375 0.250	rozen Reading No. 2: Inches of drop 3.250 3.500 0.250	Reading No. 3: Inches of drop 3.500 3.125 0.250	Reading No. 4: Inches of drop 3.125 3.000 0.250	Reading No. 5: Inches of drop 3.125 2.750		Reading No. 7: Inches of drop	Reading No. 8: Inches of drop
V	Percolation Veather Condition Hole No. 1 2 3 4	rest Co ditions : is: H201 Yes X	mpleted by Belo	Reading Interval  XX / 30  XX / 30  XX / 30  XX / 30	Pry Fraction Reading No. 1: Inches of drop 3.500 3.375 0.250 5.125	rozen  Reading No. 2: Inches of drop  3.250  3.500  0.250  5.000	Reading No. 3: Inches of drop 3.500 3.125 0.250 5.000	Reading No. 4: Inches of drop 3.125 3.000 0.250 5.000	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop 3.250	No. 8: Inches of drop
V	Percolation Veather Condition Hole No. 1 2 3 4 5	rest Co ditions : ss: H201 Yes X X X	mpleted by Belo Wet  Mo  X  X	Reading Interval  XX / 30  10 / XX	Dry	rozen Reading No. 2: Inches of drop 3.250 3.500 0.250 5.000 3.875 4.625	Reading No. 3: Inches of drop 3.500 3.125 0.250 5.000 3.750 4.500	Reading No. 4: Inches of drop 3.125 3.000 0.250 5.000 3.750 4.500	Reading No. 5: Inches of drop 3.125 2.750	Reading No. 6: Inches of drop 3.000 2.625	Reading No. 7: Inches of drop 3.250 2.750	No. 8: Inches of drop
W S	Percolation Veather Condition Hole No.  1 2 3 4 5 6 ***Water Calculation Calculation	Yes X X X X X X X X Drop de final pe 3.25 5.00 3.75	Mpleted by Belo Wet  No  X  X  X  Average Pouring riod  50  "  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "	Reading Interval  XX / 30  10 / XX  10 / XX  at the end of the end of the end of the end of the end end end end end end end end end en	Reading No. 1: Inches of drop  3.500  3.375  0.250  5.125  3.875  4.625  the final 30 mir Rate:	rozen Reading No. 2: Inches of drop 3.250 3.500 0.250 5.000 3.875 4.625 nute presoak?  Depth of Hole 20 20 20 20 20	Reading No. 3: Inches of drop 3.500 3.125 0.250 5.000 3.750 4.500 Yes, use 30	Reading No. 4: Inches of drop 3.125 3.000 0.250 5.000 4.500 minute interval	Reading No. 5: Inches of drop 3.125 2.750  The information correct results me, performed	Reading No. 6: Inches of drop 3.000 2.625	Reading No. 7: Inches of drop 3.250 2.750	No. 8: Inches of drop
N S	Percolation Veather Condition Hole No.  1 2 3 4 5 6 ***Water Calculation Calculation	Yes  Yes  X  X  X  X  Comparison of A  C	Mpleted by Belo Wet  No  X  X  X  Average Pouring riod  50  "  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "  50  "	Reading Interval  XX / 30  10 / XX  10 / XX  at the end of the end of the end of the end of the end end end end end end end end end en	Pry Fragrand Programmer Programme	rozen Reading No. 2: Inches of drop 3.250 3.500 0.250 5.000 3.875 4.625 nute presoak?  Depth of Hole 20 20 20	Reading No. 3: Inches of drop 3.500 3.125 0.250 5.000 3.750 4.500 Yes, use 30	Reading No. 4: Inches of drop 3.125 3.000 0.250 5.000 4.500 minute interval	Reading No. 5: Inches of drop 3.125 2.750  The informatio	Reading No. 6: Inches of drop 3.000 2.625	Reading No. 7: Inches of drop 3.250 2.750  Inches and acted by Inches In	No. 8: Inches of drop

Applica			·		Munici	pality	New	Britain Tow		County		cks
Site Loc	cation	****	<u> </u>	396 King I	Road	<del> </del>	Subd'n Nai	ne	Lot	#5 The Es	tates at Hill	Гор
Suitable		:	Soil	Type Readingtor	Slope	7%	Limiting 2	Zone .	26''M	Ave. Perc.	Rate	
Unsuitabl	le [	Mott	ling [	Seeps or Ponded	Water	☐ Bedro	ck 🔲 Fra	ctures	Coarse	Fragments		Perc. Rate
		☐ Sid	ope	Unstabilized Fill	☐ Floo	odplain [	Other	<del>Michell India.</del>		ettema.	16.	
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Incl		Pit#	33	,		Descriptio	n of Horizo	n		, ,		
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10 T	O_26	n .	10YF	R 5/6, Silt Loam, M	loderate. Me	edium. Subar	ngular Block	r. Friable	Natificación destros	in Berandinan i		
	*-11-11-11-11					.:				<del> </del>		
26 1	O <u>35</u>		Con	R 4/6, Channery, S amon distinct redo	Silt Loam, W	eak, Coarse,	Prismatic to	Weak, Med	lium, Subangu	ilar Blocky, I	<u> </u>	
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Soil Cor	nditions				Dry 🔲							
		H20 I	Len		Reading No. 1:	Reading No. 2:	Reading No. 3:	Reading No. 4:	Reading No. 5:	Reading No. 6:	Reading No. 7:	Reading No. 8
H	ole No.	Yes	No	Reading Interval	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop	Inches of drop
				10/30					43046			
				10/30								
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L				10/30						in an		
				hole at the end of t		inute presoak	? Yes, use 30					
. G		ion of / Drop d		ige Percolation f Perc. Rate	The second second	Depth	4.44		e Parterbase Bak Sagara			54.79
Hole No.		final pe	eriod	Minutes/In	r as ich	of Hole	in the					w.y.y.
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<del>Particular de la companie de la com</del>		iji jws	eger	19.	y (1) managan Managan	· · · · · · · · · · · · · · · · · · ·	# #			1,500	inner approved	erge in service.
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TOTAL			ES :		₹.		Inch	44°	(S) \ \ \ \ Sewage Er	<u>()—V 1∪</u> nforcement O	NY NY )	
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	Applic												
		ocation		11/15	396 King R	Road		Subd'n Nan	ne _	Lot	# 5 The Est	ates at Hill T	ор
	] Suitabl		☐ Mottl	ng 🗌 Se	Beddington eps or Ponded instabilized Fill	Water	☐ Bedroc	Limiting Z k Fra Other	ctures	36+ /	Ave, Perc, Fragments	Rate	erc. Rate
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		S DESC s Descri		N: omplete b	y:	Z <sub>i</sub> w.	VW Cons	sultants LL0	C / MHR		Date:	1/3/22	
	In	ches	Pit#	34		- 1	Description	of Horizo	n			Salar Pa	
Ap	0	TO 9		7.5YR 3/3	, Silt Loam, V	Veak, Fine, 0	Granular, Ver	y Friable			Marie Property		
Bt1	9	TO 24	,	10YR 4/6	, Gravelly, Silt	y Clay Loan	, Moderate,	Medium, Su	bangular Blo	cky, Friable		30.	
Bt2	24	TO 36+	11	10YR 4/6	, Channery, S	ilt Loam, Mo	derate, Coar	se, Subangu	ular Blocky, F	riable			
		то		* VHOR		emetry (B)			(1)		1		
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	- 100	то	-	, g <sup>2</sup> = 0 _ 5	1.5% (1)		-			1 PC	N Ser	Depth to Li	miting
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PAGNOUT, MICH.													
	Perc Weat		Test Co ditions : is:	mpleted l Be	low 40 F	☐ 40 F or Al Dry ☐ f		Dry Reading	Rain, SI	eet, Snow (las	Reading	Reading	Reading
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	Perc Weat	colation her Con	Test Co ditions : ns:	mpleted   Be We Left	low 40 F	Reading No. 1:	Reading No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6: Inches	No. 7: Inches	No. 8: Inches
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	Perc Weat	ther Con Condition Hole No.	remaining	mpleted   Be   Wo	Reading Interval 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 e at the end of	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	No. 7: Inches of drop	No. 8: Inches
	Perc Weat	Hole No.	remaining	mpleted   Be   We   We   We   We   We   We   We	Reading Interval 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30 10 / 30	Reading No. 1: Inches of drop  the final 30 m  Rate:	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	No. 7: Inches of drop	No. 8: Inches
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	Application No			<u> </u>	Municip			Britain Town		County	-	icks
T.	Site Location  Suitable						Subd'n Nan	ne <u> </u>	Lot	#5 The Est	ates at Hill	Top
			ling [	Type Readingtor Seeps or Ponded Unstabilized Fill		Bedro	Limiting Z ck Fre	· (4)		Ave. Perc. I Fragments		62.67 Perc. Rate
Calcadage days	INSTRI	JCTIC	NS F	OR COMPLE			MARE LC	CATED C	NTHER	VERSE-		
	SOILS DESCR Soils Descrip	RIPTIC	N:	• , •			sultants LL0			Date:	4/9/00	
	Inches	Pi#	-	ite by.			n of Horizo		بينسنسيب مسيوس	Date:	1/3/22	This.
Ар	0 TO 7	1.0		3/4, Silt Loam, M				• •			Additional Pit #33 26	
											Pit #34 36	4
Bt1	7 TO 20		10YR	5/4, Channery, S	Silt Loam, Mo	derate, Fine	, Subangular	Blocky, Fria	ble		Pit #36 21	"M
Bt2	<u>20</u> TO 29	Ħ		5/4, Very Chann		n, Weak, Me	dium, Suban	gular Blocky	, Firm			
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	Application No Site Location			396 King F			New Subd'n Nar	Britain Tow ne	nship Lot	County # 5 The Est		cks Top
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	Application No	-						Britain Tow		County		cks
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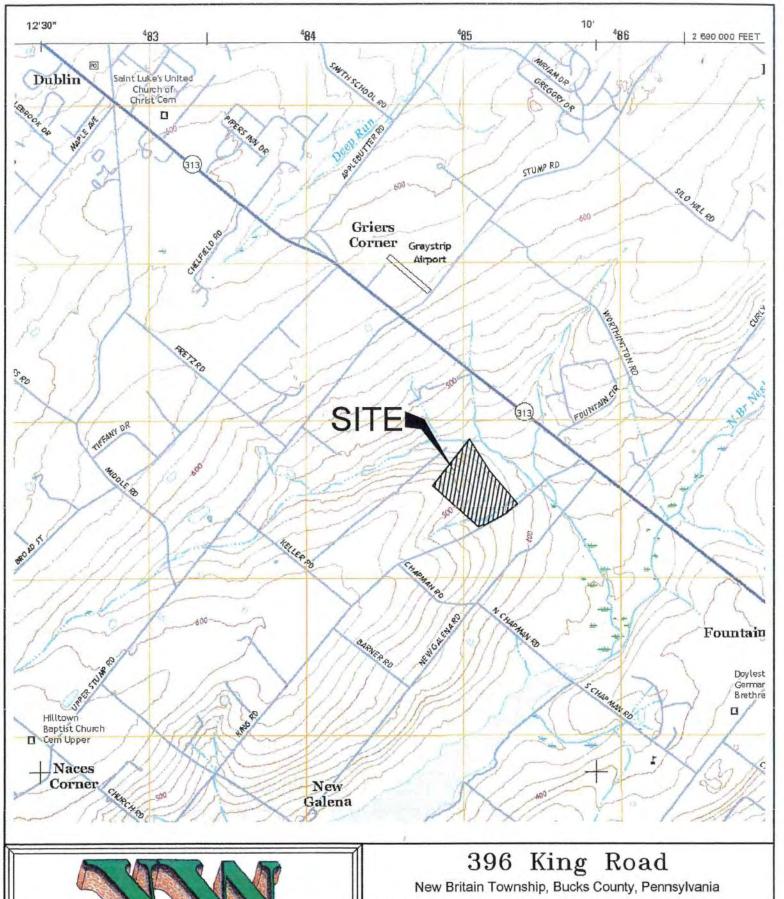
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	The second	cation No			h					nship	County	Bu	cks
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	Ir	ches	Pit#	29	1		Descriptio	n of Horizo	on		\$	2 4	reginal in
	0	TO 8	n	10YR 3	/4, Silt Loam, N	foderate, Fi	ne, Granular,	Very Friable	<b>L</b> ation of the same	die de Sagn			
	8	TO 26		10YR 5	6/4, Channery,	Silty Clay Lo	oam, Moderat	e, Medium,	Subangular E	Blocky, Friat	ole		
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	Application N			396 King		pality				County	Bu lates at Hill	
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	то	. et								n de 19 3 desembre 1901	24	Inches
	PERCOLATI Percolation			ted by:						Date:		
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		H20	Left *		Reading No 1:	Reading No.2:	Reading No. 3:	Reading No. 4:	Reading No. 5:	Reading No. 6:	Reading No. 7:	Reading No. 8:
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	TOTAL No.	OF HOL	ES .			NATY DEF	dụch		Sewage É	nforcement O	fficer	
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		(E) (E) (E)	18 (1) (12) (2)	396 King F	Road		Subd'n Nam	е	Lot	# 6 The Es	tates at Hill	Тор
✓ Suita	able uitable	☐ Motti	ling S	Readingtor eeps or Ponded Unstabilized Fill	Water	☐ Bedroc	k 🗌 Frac	tures	Coarse	Fragments	Rate	79.05 Perc. Rate
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	ILS DESC oils Descri			by:	140	VW Cons	ultants LLC	/ MHR			1/3/22	
1	Inches	Pit#	31		1	Description	of Horizon	n			Additional	Pits
_ 0	TO 10	n	10YR 3/	4, Silt Loam, N	Moderate, Fin	e, Subangula	ar Blocky, Fri	able	فيمالنا		Pit #29 26	
_ 10	TO 22	n	10YR 5/6	3, Silt Loam, St	trong, Fine, S	Subangular B	locky, Friable	9			Pit #30 24 Pit #32 27	
C 22	TO 33	n		3, Very Channe		, Weak, Coa	rse, Prismat	ic to Weak, N	Aoderate, S	Subangular B	locky, Friable	to Firm
	то	**	Commo	n distinct redox	x features			VW1 472.7				
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	_TO	-"									Zone:	Inches
	ТО	u .									44	Inches
Pe Wea	RCOLATIOn ather Condition	Test Co	mpleted  Be	elow 40 F		ove [	sultants LL Dry	C / JC  Rain, Sle	et, Snow (las	Date:	1/28/22	
Pe Wea	ather Condition	Test Co ditions : ns:	mpleted Be	elow 40 F	Reading No. 1: Inches	rozen  Reading No. 2: Inches	Reading No. 3: Inches	Reading No. 4: Inches	Reading No. 5: Inches	Reading No. 6:	Reading No. 7: Inches	Reading No. 8: Inches
Pe Wea	ather Condition Condition Hole No.	Test Co ditions : ns: H20 ***	mpleted Be	Reading Interval	Reading No. 1: Inches of drop	rozen  Reading   No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5:	Reading No. 6:	Reading No. 7:	No. 8:
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Pe Wea	ather Condition  Hole No.  1	Test Co ditions : ns: H20 ***	mpleted Be	Reading Interval XX / 30 XX / 30	Reading No. 1: Inches of drop 1.000	rozen Reading No. 2: Inches of drop 0.875 0.250	Reading No. 3: Inches of drop 0.875	Reading No. 4: Inches of drop 0.875	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches	No. 8: Inches
Pe Wea	ather Condition Condition Hole No.	Test Co ditions : ns: H20 ** Yes X	mpleted Be	Reading Interval XX / 30 XX / 30	Reading No. 1: Inches of drop 1.000 0.375 0.875	Reading No. 2: Inches of drop 0.875 0.250 0.375	Reading No. 3: Inches of drop 0.875 0.250 0.375	Reading No. 4: Inches of drop 0.875	Reading No. 5: Inches	Reading No. 6: Inches of drop	Reading No. 7: Inches	No. 8: Inches
Pe Wea	ather Condition  Hole No.  1  2  3	Test Co ditions: ns: H20 *** Yes X X	mpleted Be	Reading Interval XX / 30 XX / 30	Reading No. 1: Inches of drop 1.000	rozen Reading No. 2: Inches of drop 0.875 0.250	Reading No. 3: Inches of drop 0.875	Reading No. 4: Inches of drop 0.875 0.250 0.375	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches	No. 8: Inches
Pe Wea	Hole No.  1 2 3 4 5 6	Test Coditions: as: H20 ** Yes X X X X	mpleted  Be W Left No	Reading Interval XX / 30	Reading No. 1: Inches of drop 1.000 0.375 0.875 0.375 1.000	rozen Reading No. 2: Inches of drop  0.875  0.250  0.375  0.125  0.250  0.875	Reading No. 3: Inches of drop 0.875 0.250 0.375 0.250 0.375 0.750	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches
Pe Wea	Hole No.  1 2 3 4 5 6 ***Water	Test Coditions: as: H20 ** Yes X X X X X remainin	mpleted  Be W Left No	Reading Interval  XX / 30  E at the end of t	Reading No. 1: Inches of drop  1.000  0.375  0.875  0.375  1.000  the final 30 mi	rozen Reading No. 2: Inches of drop  0.875  0.250  0.375  0.125  0.250  0.875	Reading No. 3: Inches of drop 0.875 0.250 0.375 0.250 0.375 0.750	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches
Pe Wea Soil	Hole No.  1 2 3 4 5 6 ***Water	Test Coditions: as: H20 Yes X X X X Committee	mpleted Be W Left No g in the ho Average	Reading Interval  XX / 30  Percolation Ferc. Rate	Reading No. 1: Inches of drop  1.000  0.375  0.875  0.375  0.375  1.000 the final 30 min Rate:	Reading No. 2: Inches of drop 0.875 0.250 0.375 0.125 0.250 0.875 nute presoak	Reading No. 3: Inches of drop 0.875 0.250 0.375 0.250 0.375 0.750	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches
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Pe Wea Soil	Hole No.  1 2 3 4 5 6 ***Water Calculate	Test Coditions: as: H20 ** Yes X X X X remainin ation of dinal pe 0.8	mpleted  Be W Left No  g in the ho Average luring eriod 75	Reading Interval  XX / 30  Percolation Fercolation Ferco. Rate Minutes/In 34.29	Reading No. 1: Inches of drop  1.000  0.375  0.875  0.375  0.375  1.000 the final 30 min Rate:	Reading No. 2: Inches of drop  0.875  0.250  0.375  0.125  0.250  0.875  nute presoak	Reading No. 3: Inches of drop 0.875 0.250 0.375 0.250 0.375 0.750	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750  minute interval	Reading No. 5: Inches of drop  0.375	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	No. 8: Inches
Pe Wea Soil	Hole No.  1 2 3 4 5 6 ***Water	Test Coditions: as: H20 Yes X X X X Commission of Drop of final per 0.88 0.2	mpleted  Be W Left No  g in the ho Average luring eriod 75 "	Reading Interval  XX / 30  Percolation Fercolation Ferc. Rate Minutes/In 34.29  120.00	Reading No. 1: Inches of drop  1.000  0.375  0.875  0.375  0.375  1.000 the final 30 min Rate:	Reading No. 2: Inches of drop  0.875  0.250  0.375  0.125  0.250  0.875  nute presoak	Reading No. 3: Inches of drop 0.875 0.250 0.375 0.250 0.375 0.750 2 Yes, use 30	Reading No. 4: Inches of drop 0.875 0.250 0.375 0.250 0.375 minute interva	Reading No. 5: Inches of drop  0.375	Reading No. 6: Inches of drop  O minute intervious provided is	Reading No. 7: Inches of drop	No. 8: Inches of drop
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Pe Wea Soil	Hole No.  1 2 3 4 5 6 ***Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 5	Test Coditions: as: H20 ** Yes X X X X  X Comparison of the comparison of the code of the	mpleted  Be When the horacle with the horacle wing eriod  75 "  75 "  75 "	Reading Interval  XX / 30  Percolation Ferc. Rate Minutes/In 34.29  120.00  80.00  120.00  80.00	Reading No. 1: Inches of drop  1.000  0.375  0.875  0.375  0.375  1.000 the final 30 min Rate:	Reading No. 2: Inches of drop 0.875 0.250 0.375 0.125 0.250 0.875 nute presoak of the presoak of	Reading No. 3: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750  7 Yes, use 30	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750  minute interval	Reading No. 5: Inches of drop  0.375	Reading No. 6: Inches of drop  Diminute intervious of tests cone ad under my positimed in a ma	Reading No. 7: Inches of drop	No. 8: Inches of drop
Pe Wea Soil	Hole No.  1 2 3 4 5 6 ***Water Calculation	Test Coditions: as: H20  Yes  X  X  X  X  Committee of the committee of th	mpleted  Be When the horacle with the horacle wing eriod  75 "  75 "  75 "	Reading Interval  XX / 30  Percolation Ferc. Rate Minutes/In 34.29  120.00  80.00  120.00	Reading No. 1: Inches of drop  1.000  0.375  0.875  0.375  0.375  1.000 the final 30 min Rate:	Reading No. 2: Inches of drop 0.875 0.250 0.375 0.125 0.250 0.875 Dute presoak of Hole 20 20 20 20	Reading No. 3: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750  7 Yes, use 30	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750  minute interval	Reading No. 5: Inches of drop  0.375  Al; No use 10  The informaticorrect result me, performer vision, or correct	Reading No. 6: Inches of drop  Diminute intervious of tests cone ad under my positimed in a ma	Reading No. 7: Inches of drop	No. 8: Inches of drop
Hole	Hole No.  1 2 3 4 5 6 ***Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 6 ****Water Calculate  No. 1 2 3 4 5 5	Test Coditions: as:  H20  Yes  X  X  X  X  X  Comparison of the co	mpleted  We have rage during eriod  75  75  75  75  75  75  75  75  75  7	Reading Interval  XX / 30  Percolation Ferc. Rate Minutes/In 34.29  120.00  80.00  120.00  80.00	Dry	Reading No. 2: Inches of drop 0.875 0.250 0.375 0.125 0.250 0.875 nute presoak of the presoak of	Reading No. 3: Inches of drop  0.875  0.250  0.375  0.250  0.375  0.750  7 Yes, use 30	Reading No. 4: Inches of drop  0.875  0.250  0.375  0.250  0.375  minute interva	Reading No. 5: Inches of drop  0.375  The informat correct result me, performe vision, or corr by the Depar	Reading No. 6: Inches of drop  Diminute intervious of tests cone ad under my positimed in a ma	Reading No. 7: Inches of drop  //al.  s the true and ducted by ersonal super- anner approve	No. 8: Inches of drop

	Application No			<u> </u>	Munic	pality	New	Britain Tow	nship	County	Buc	cks
	Site Location	· · ·		396 King F	Road		Subd'n Na	ne ,	Lo	ot# 6 The Es	tates at Hill	Гор
	Suitable Unsuitable		ng 🔲	Pe Reaville Seeps or Ponded Unstabilized Fill	Slope Water	10-15% Bedro		ictures		_Ave. Perc. se Fragments	1944.	Perc. Rate
	INSTRU	JETIO	NS FO	REOMPLE	TION OF	THIS FOR	MAREL					grant and granting and grant and grant grants
	SOILS DESCR Soils Descrip			by:		VW Cor	sultants LL	C / MHR		Date:	1/3/22	
	Inches	Pit#		A share and a shar	······································	Description						
р	<u>0 TO 8</u>	В	7.5YR 3	3/4, Silt Loam, N	loderate, F	-						
t	8 TO 27	#	10YR 5	5/4, Channery, S	Silt Loam, N	/loderate, Me	dium, Suban	gular Blocky,	Friable			
5	27 TO 32	11	10YR 4	1/4, Very Chann	ery, Silt Lo	am, Weak, M	edium, Suba	ngular Block	y, Friable			
	TO	H	Many	listinct redox fea	atures					1		
<del>-</del>		ų.		<del> </del>	·	***************************************	<del></del>	Th	ret b			
	· · · · · · · · · · · · · · · · · · ·		<del></del>			<del>Markar M. Januaryan</del> ,	<del> </del>	- f	1-F	1000	Depth to Li	imiting
-	TO	ir .		· · · · · · · · · · · · · · · · · · ·		**************************************	······································	<del></del>	·		_Zone: 27	Inches
	TO	ii		,	Marketon market francisco		indonesia de la composição				La 3	, mones
All acom	PERCOLATIO							***************************************				
	Weather Cond Soil Conditions	itions : s:			☐ 40 For A Dry ☐	bove [ Frozen	] Dry		#1 1 . PV 17+ #	Date: st 24 hours)		
	Hole No.	H20 L * * * Yes	eπ No	Reading Interval	Reading No. 1: Inches of drop	Reading No. 2: Inches of drop	Reading No. 3: Inches of drop	Reading No. 4: Inches of drop	Reading No. 5: Inches of drop	Reading No. 6: Inches of drop	Reading No. 7: Inches of drop	Reading No. 8: Inches of drop
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CONSUITANTS LLC 1590 Canary Rd, Quakertown, PA 18951 215-536-7006 | 215-538-6136 Fax Applicant: Casadonti Homes, Inc.
P.O. Box 5
Chalfont, PA 18914-0005

Chalfont, PA 18914-0005

Chalfont, PA 18914-0005

Scale: 1 = 24,000
Date: 11/01/22
Drawn By: EDW

Quad Map: Doylestown

SHEET 1 of 1



#### **BUREAU OF FORESTRY**

February 21, 2023

**PNDI Number: 770353** Version: Final\_1; 2/17/23

Richelle Daly
VW Consultants, LLC
1590 Canary Road
Quakertown, PA 18951
Email: rdaly@vw-consultants.com (hard copy will not follow)

Re: 396 King Road New Britain Township, Bucks County, PA

Dear Richelle Daly,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 770353 (Final\_1) for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources under DCNR's responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

### No Impact Anticipated

PNDI records indicate species or resources under DCNR's jurisdiction are located in the vicinity of the project. However, based on the information you submitted concerning the nature of the project, the immediate location, and our detailed resource information, DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project.

### **Recommended Best Management Practices:**

- Use a conservative approach to project design that minimizes permanent and temporary disturbances to soil and native vegetation. This will conserve habitat and limit opportunities for invasive plants.
- Clean boot treads, tools, construction equipment, and vehicles thoroughly (especially the undercarriage and wheels) before they are brought on site. This will remove invasive plant seeds and invasive earthworms/cocoons that may have been picked up at other worksites.
- Use clean project materials (e.g., weed-free straw) or materials native to the worksite to avoid introducing invasive species from contaminated sources.
- Revegetate or cover disturbed soil and stockpiles quickly to discourage the germination of invasive plants. Implement proper erosion control practices to stabilize soil and reduce runoff.
- Do not use seed mixes that include invasive species. More information about invasive plants in Pennsylvania can be found at the following link: <a href="http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx">http://www.dcnr.pa.gov/Conservation/WildPlants/InvasivePlants/Pages/default.aspx</a>
- Use habitat appropriate seed mixes. For example, use a riparian seed mix when reseeding along a waterway. The Bureau of Forestry Planting & Seeding Guidelines can be found at the following link for recommendations: <a href="http://www.docs.dcnr.pa.gov/cs/groups/public/documents/docum
- Use native plants for landscaping, revegetation, and stormwater management. Do not use nonnative invasive species.
   Reduce the area of lawn and impermeable surfaces to the fullest extent practicable in favor of native gardens or habitat

  conserve
  sustain

PNDI Number: **770353** Version: Final\_1; 2/17/23

restoration (e.g., forest, meadow, wetland, etc.). More information about lawn conversion can be found at the following link: <a href="https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx">https://www.dcnr.pa.gov/Conservation/Water/LawnConversion/Pages/default.aspx</a>

- Plant forest buffers where trees were historically present along streams, wetlands, and bodies of water. Buffers should
  be a minimum of 35 feet in width (ideally at least 100 feet in width). Where trees are not appropriate (e.g., powerline
  rights-of-way), buffer with native shrubs and herbaceous plants. More information about riparian buffers can be found
  at the following link: https://www.dcnr.pa.gov/Conservation/Water/RiparianBuffers/Pages/default.aspx
- Manage rights-of-way for diverse native plant communities and wildlife (e.g., monarch butterfly). In seed mixes, include wildflowers that have overlapping bloom periods and provide forage for pollinators throughout the growing season. Avoid blanket herbicide applications; instead, spot-treat undesirable tall woody vegetation and invasive weeds. Where mowing is necessary, reduce frequency to once every few years during the dormant season (i.e., after first frost in late fall and before bird nesting in early spring), leaving some refugia for overwintering wildlife.
- Monitor for invasive plants before, during, and after project activities and promptly control any identified infestations.
   Frequent monitoring allows for early detection and rapid response.

This response represents the most up-to-date review of the PNDI data files and is valid for two (2) years only. If project plans change or more information on listed or proposed species becomes available, our determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter and a permit has not been acquired, please resubmit the project to this agency as an "Update" (including an updated PNDI receipt, project narrative, description of project changes and accurate map). As a reminder, this finding applies to potential impacts under DCNR's jurisdiction only. Visit the PNHP website for directions on contacting the Commonwealth's other resource agencies for environmental review.

Should you have any questions or concerns, please contact Alexander Dogonniuck, Ecological Information Specialist, by phone (717-783-3913) or via email (c-adogonni@pa.gov).

Sincerely.

Greg Podniesinski, Section Chief Natural Heritage Section

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ratural Heritage Section

### 1. PROJECT INFORMATION

Project Name: 396 King Road

Date of Review: 2/17/2023 12:36:32 PM

Project Category: Development, Residential, Subdivision containing more than 2 lots and/or 2 single-family

units

Project Area: 36.11 acres

County(s): Bucks

Township/Municipality(s): NEW BRITAIN TOWNSHIP

ZIP Code:

Quadrangle Name(s): DOYLESTOWN

Watersheds HUC 8: Crosswicks-Neshaminy

Watersheds HUC 12: North Branch Neshaminy Creek

Decimal Degrees: 40.349466, -75.175855

Degrees Minutes Seconds: 40° 20' 58.773" N, 75° 10' 33.785" W

### 2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	Potential Impact	FURTHER REVIEW IS REQUIRED, See Agency Response
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

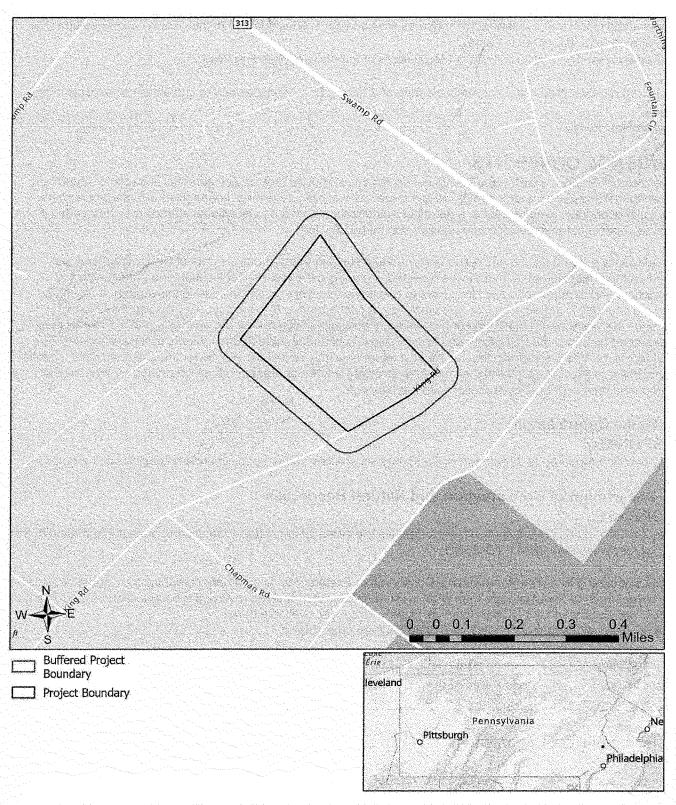
As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.

## 396 King Road



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## 396 King Road



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyreisen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community

## RESPONSE TO QUESTION(S) ASKED

Q1: The proposed project is in the range of the Indiana bat. Describe how the project will affect bat habitat (forests, woodlots and trees) and indicate what measures will be taken in consideration of this. Round acreages up to the nearest acre (e.g., 0.2 acres = 1 acre).

Your answer is: The project will affect 1 to 39 acres of forests, woodlots and trees.

Q2: Is tree removal, tree cutting or forest clearing of 40 acres or more necessary to implement all aspects of this project?

Your answer is: No

## 3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

### PA Game Commission RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

## PA Department of Conservation and Natural Resources RESPONSE:

Further review of this project is necessary to resolve the potential impact(s). Please send project information to this agency for review (see WHAT TO SEND).

**DCNR Species:** (Note: The Pennsylvania Conservation Explorer tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available here: <a href="https://conservationexplorer.dcnr.pa.gov/content/survey-protocols">https://conservationexplorer.dcnr.pa.gov/content/survey-protocols</a>)

Scientific Name	Common Name	Current Status	Proposed Status	Survey Window
Juncus biflorus	Grass-leaved Rush	Special Concern Species*	Special Concern Species*	Fruits July - early November

## PA Fish and Boat Commission

#### RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

## U.S. Fish and Wildlife Service RESPONSE:

Project Search ID: PNDI-770353

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

- \* Special Concern Species or Resource Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
- \*\* Sensitive Species Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

### WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, upload\* or email the following information to the agency(s) (see AGENCY CONTACT INFORMATION). Instructions for uploading project materials can be found <a href="https://example.com/here">here</a>. This option provides the applicant with the convenience of sending project materials to a single location accessible to all three state agencies (but not USFWS).

\*If information was requested by USFWS, applicants must email, or mail, project information to IR1\_ESPenn@fws.gov to initiate a review. USFWS will not accept uploaded project materials.

### Check-list of Minimum Materials to be submitted:

- \_\_\_\_Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
- \_\_\_\_A map with the project boundary and/or a basic site plan(particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)

### In addition to the materials listed above, USFWS REQUIRES the following

\_\_\_SIGNED copy of a Final Project Environmental Review Receipt

### The inclusion of the following information may expedite the review process.

- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams.

### 4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at <a href="https://conservationexplorer.dcnr.pa.gov/content/resources">https://conservationexplorer.dcnr.pa.gov/content/resources</a>.

## 5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (<a href="www.naturalheritage.state.pa.us">www.naturalheritage.state.pa.us</a>). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

### 6. AGENCY CONTACT INFORMATION

## PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section 400 Market Street, PO Box 8552 Harrisburg, PA 17105-8552 Email: RA-HeritageReview@pa.gov

#### PA Fish and Boat Commission

Name: Richelle Daly

applicant/project proponent signature

Division of Environmental Services 595 E. Rolling Ridge Dr., Bellefonte, PA 16823 Email: RA-FBPACENOTIFY@pa.gov

#### U.S. Fish and Wildlife Service

Pennsylvania Field Office Endangered Species Section 110 Radnor Rd; Suite 101 State College, PA 16801 Email: <u>IR1\_ESPenn@fws.gov</u> NO Faxes Please

#### PA Game Commission

Bureau of Wildlife Management
Division of Environmental Review
2001 Elmerton Avenue, Harrisburg, PA 17110-9797
Email: RA-PGC\_PNDI@pa.gov
NO Faxes Please

date

## 7. PROJECT CONTACT INFORMATION

Company/Business Name: VW Consultants, LLC	
Address: 1590 Canary Road	
City, State, Zip: Quakertown, PA 18951	
Phone: (215) 536-7006 Fax: (215)	538-6136
Email: rdaly@vw-consultants.com	
8. CERTIFICATION I certify that ALL of the project information contained in this is size/configuration, project type, answers to questions) is true location, size or configuration changes, or if the answers to change, I agree to re-do the online environmental review.	e, accurate and complete. In addition, if the project type
Bishelle Daly	02/17/2023

