NOTES

1. The purpose of this plan is to combine Lot #1 and Lot #2 to create proposed Lot #1. All lots are to be unified by deed. The plan also proposes the construction of a driveway.
2. All boundary information shown hereon are the results of a boundary retracement survey performed by ACT ONE & Associates on April 28, 2022.
3. All boundary, topographical, and contour information shown hereon is the result of a site survey as performed by ACT ONE & Associates. Elevations are based on North American Vertical Datum 1988 (NAVD88).
4. According to the FEMA Flood Insurance Rate Map Number: 42043C0309D, Panel 309 of 501, effective Date: August 2, 2012, the properties, as shown hereon, are located in the 100-year flood plain.The Base Flood Elevation (BFE) in the proximity of this parcel is 327.0 feet (NGVD 29).
5. No wetlands were observed within the limits of disturbance as defined in accordance with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (hereafter called the Corps Manual). This Regional Supplement is designed for use with the current version of the Corps Manual (Environmental Laboratory 1987) and all subsequent versions. In accordance with the U.S. Fish & Wildlife Service, National Wetlands Inventory mapper, no wetlands have been designated on, or directly adjacent to this parcel (https://www.fws.gov/wetlands/Data/Mapper.html).
6. All existing utilities shall be contacted and the contractor must field verify their exact location. All utilities shown hereon are approximate. Contractor shall be required to contact the Pennsylvania One Call System in accordance with Act 287. Dial 811, or 1-800-242-1776 to place a dig notification.
7. There are no existing or proposed protective covenants running with this land.
8. Monuments and markers shown hereon are existing, no proposed monuments and markers are to be set after plan approval.
9. This plan does not propose any new sewage flow.
10. The applicant shall comply with all township regulations in effect at the time of the filing of the preliminary/final plan.
11. No additional right-of-way area is proposed to be dedicated as part of this plan.
12. All known existing improvements and structures are shown hereon. All existing utilities shall be contacted and the contractor must field verify their exact location. All utilities shown hereon are approximate. Proposed utilities shall be installed underground unless conditions require otherwise.
13. The buildings, shown hereon, are serviced by public water & sewer.
14. Access to North Front Street (S.R. 3009) is authorized by a state occupancy permit. No building construction or work within the State Road Right-of-way may commence without said permit.
15. The total limit of disturbance (LOD) will be 3,800 square feet (0.0872 acres). The entire site is mapped as Tioga (Tg) Fine Sandy Loam, High Bottom; 0-3% Slope, Depth to Restrictive Feature is More Than 80 Inches; Well Drained; Runoff Class: Low; Depth to Water Table is More Than 80 Inches; Hydrologic Soil Group (HSG) B.

WAIVER REQUEST

Susquehanna Township Subdivision and Land Development Ordinance

1. Section 22-404 - Preliminary Plan Procedure
   Approved by Susquehanna Township Board of Supervisors
   ______________________, 2022
2. Section 22-1102 - Monuments and Markers
   Approved by Susquehanna Township Board of Supervisors
   ______________________, 2022
3. Section 22-1106 - Curbs
   Approved by Susquehanna Township Board of Supervisors
   ______________________, 2022
4. Section 22-1107 - Sidewalks
   Approved by Susquehanna Township Board of Supervisors
   ______________________, 2022

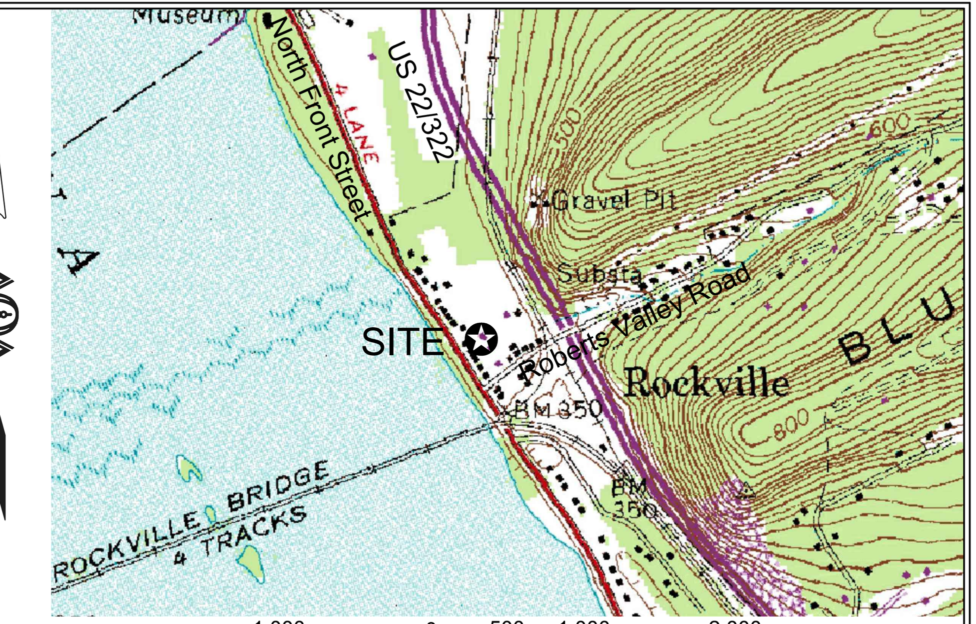
EXISTING NON-CONFORMITIES

Susquehanna Township Zoning Ordinance

1. Section 27-1504 - Existing Lot #1 is over rear setback line described in the "Bulk and Area Dimensions Table".

DRAWING INDEX

to be recorded



1,000 0 500 1,000 2,000

1 inch = 1,000 feet

LOCATION MAP

FINAL SUBDIVISION/LOT ADDITION PLAN FOR

JEFFREY K. HENSHAW

5213 & 5215 NORTH FRONT STREET

SUSQUEHANNA TOWNSHIP
DAUPHIN COUNTY
COMMONWEALTH OF PENNSYLVANIA

Zoning Data: "MU-2" MIXED USE CORRIDOR- SPECIAL PURPOSE DISTRICT		
Single-Family Detached		
Regulation	Description	Required
Width Regulations	Minimum Lot Width	75 feet
Yard Regulations	Minimum Front Yard Setback	30 feet
	Minimum Side Yard Setback (each)	8 feet
	Minimum Rear Yard Setback	30 feet
Coverage Regulations	Minimum Vegetative Cover	60%
	Maximum Building Coverage	25%
	Maximum Impervious Coverage	40%
Height Regulations (Maximum)	Principal Use	30 feet
	Detached Accessory Use	15 feet
Area Regulations	Minimum Lot Area	7,500 square feet
	Maximum Lot Area	12,000 square feet
Parking	Single-family dwelling	2 Spaces per dwelling unit

Impervious Coverage Tabulation	
Component	Coverage (ft²)
Concrete Pad	180
Gravel Driveway	668
Asphalt Driveway	280
Dwelling	1,488
Porch	380
Existing Total	2,996
Proposed Paving	1,600
Impervious Area Removed/Overlapped	1,128
Total Impervious Cover	3,468
Net Change in Impervious Area	472

Site Data				
		Existing	Existing	Proposed
Lot		Lot #1	Lot #2	Lot #1
Parcel ID		62-002-044	62-002-043	62-002-044
Use		Residential "Single-Family Detached"	Residential "Vacant"	Residential "Single-Family Detached"
Area	Gross	0.1012 acres	0.1992 acres	0.3003 acres
		4,406.90 ft²	8,675.62 ft²	13,082.52 ft²
	Net	0.1012 acres	0.1148 acres	0.2160 acres
		4,406.90 ft²	5,001.01 ft²	9,407.91 ft²
Impervious Area		1,868 ft²	904 ft²	3,468 ft²
		42.4%	18.1%	36.9%
Building Area		1,488 ft²	0 ft²	1,488 ft²
		33.8%	0.0%	15.8%
Vegetative Cover		2,539 ft²	4,097 ft²	5,940 ft²
		57.6%	81.9%	63.1%
Water Service		Public	Public	Public
Sewer Service		Public	Public	Public
Parking		2 Spaces	2 Spaces	2 Spaces

PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776
STOP-CALL BEFORE YOU DIG!

The contractor shall verify all dimensions and existing conditions at the site before construction.
The contractor shall comply with the provisions of act 287 notification of utilities before excavation in the project area in order to determine the existence and location of all utilities. prior to any construction, the contractor will be required to contact all utilities and request them to mark their locations in the field. the one call system telephone number is (800) 242-1776

PA One Call Design I.D. #__20221034410____Date:__April 2022__.

UPI CERTIFICATION

UNIFORM PARCEL IDENTIFIER

Lot 1 - 62-002-044
Lot 2 - 62-002-043

SOURCE OF TITLE/APPLICANT - Lot #1

Jeffrey K. Henshaw
5213 North Front Street
Harrisburg, PA 17110
717 629-4816
jhenshaw@witmercompany.com

Tax Parcel Id. 62-002-044
Deed Book 374, Page 376
Parcel area = 0.1012 acres

SOURCE OF TITLE/APPLICANT - Lot #2

Jeffrey K. Henshaw
5213 North Front Street
Harrisburg, PA 17110
717 629-4816
jhenshaw@witmercompany.com

Tax Parcel Id. 62-002-043
Instrument No. 20200006984
Parcel area = 0.1992 acres

Commonwealth of Pennsylvania

County of ________________________

On this the ________ day of ________________, 20___ before me the undersigned personally appeared.

Owner(s):

____
Jeffrey K. Henshaw

Who being duly sworn according to law, depose and say that they are the owner(s) of the property shown on this plan and that they acknowledge the same to be their act and deed and desire the same to be recorded as such according to law.

Witness my hand and Notarial seal the day and the date above written.

____
Notary Public My Commission Expires

It is hereby certified that the undersigned are the owner(s) of the property shown on this plat and that all streets or parts thereof, if not previously dedicated, are hereby tendered for dedication to public use.

Owner(s):

____
Jeffrey K. Henshaw

This plan reviewed by the Dauphin County Planning Commission this ______ day of _____________ 20___

President:______________________________

Secretary:______________________________

This plan reviewed by the Susquehanna Township Engineer this ______day of _________________ 20____.

Township Engineer:______________________________

This plan recommended for approval by the Susquehanna Township Planning Commission this 27th day of June 2022.

President:______________________________

Secretary:______________________________

This plan approved by the Susquehanna Township Board of Commissioners, and all conditions imposed with respect to such approval were completed on this ______ day of _______________ 20_____.

President:______________________________

Secretary:______________________________

This plan recorded in the office of the recorder of deeds in and for Dauphin County this _______ day of ___________________ 20_____

Instrument Number:__________________

GENERAL PLAN/REPORT DATA

I hereby certify this plan to be correct as shown.

____
Robert E. Shaffer, Jr., P.E.
4701 North Front Street
Harrisburg, PA 17110
robshaffer@actoneassociates.com

STATEMENT OF ACCURACY

I hereby certify that, to the best of my knowledge, the survey and plan shown and described hereon is true and correct to the accuracy required by the Susquehanna Township Subdivision and Land Development Ordinance.

____
Professional Land Surveyor

Scott A. Strauser, PLS
4701 North Front Street
Harrisburg, PA 17110
sstrauser@actoneassociates.com

FINAL SUBDIVISION PLAN/LOT ADD ON
FOR

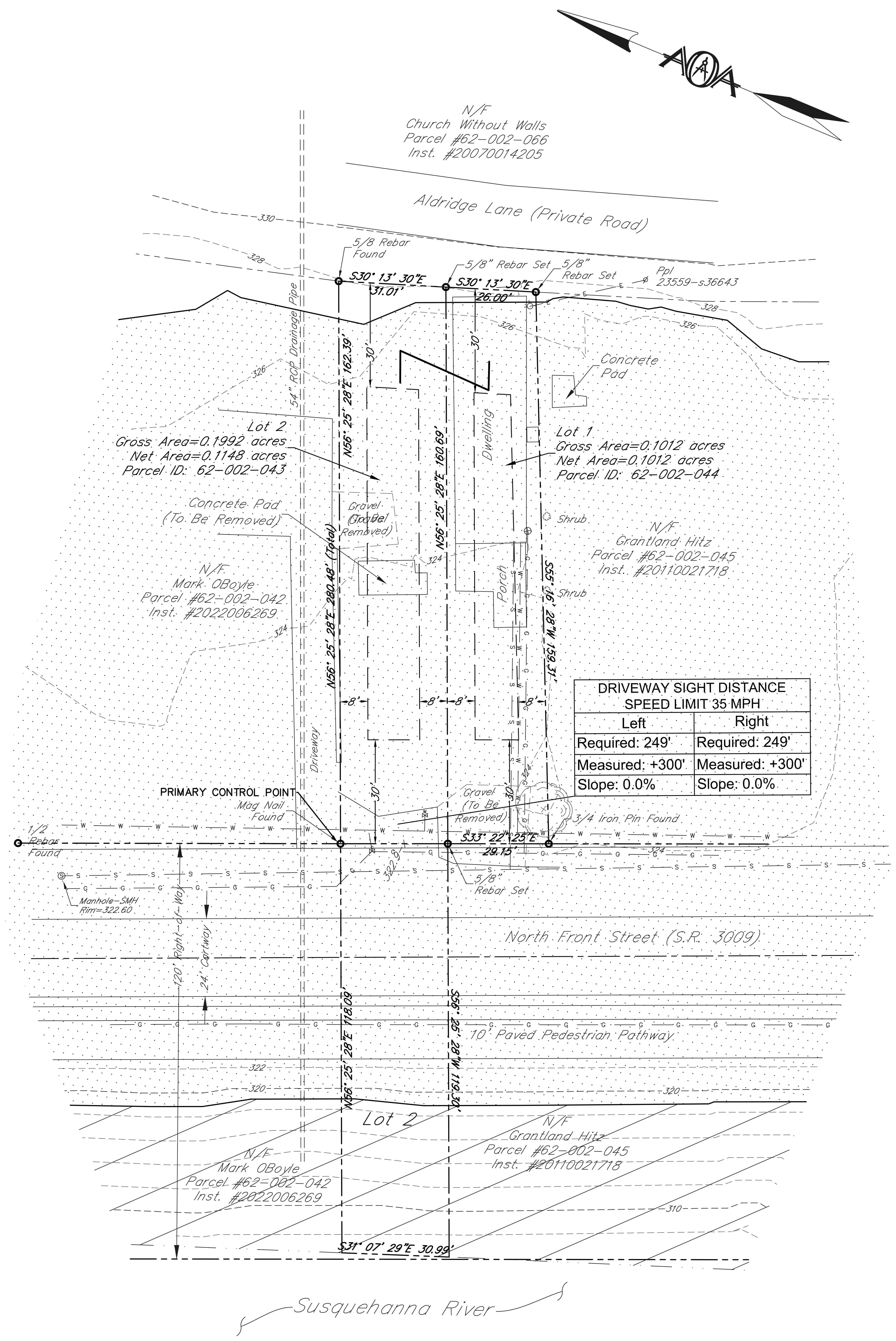
JEFFREY K. HENSHAW
5213 & 5215 NORTH FRONT STREET

SUSQUEHANNA TOWNSHIP
DAUPHIN COUNTY
COMMONWEALTH OF PENNSYLVANIA

ACT ONE & Associates
Consulting Engineers & Surveyors
4701 N. Front Street, Harrisburg, PA 17110
(717) 236-7500, fax (717) 236-3314
Email: aoa@actoneassociates.com, Website: actoneassociates.com

DATE: June 8, 2022	REVISIONS: 7-15-22	DRAWN BY: MLN
SCALE: As Shown		CHECKED BY: RES
SHEET 1 OF 4		JOB NO.: 22-044

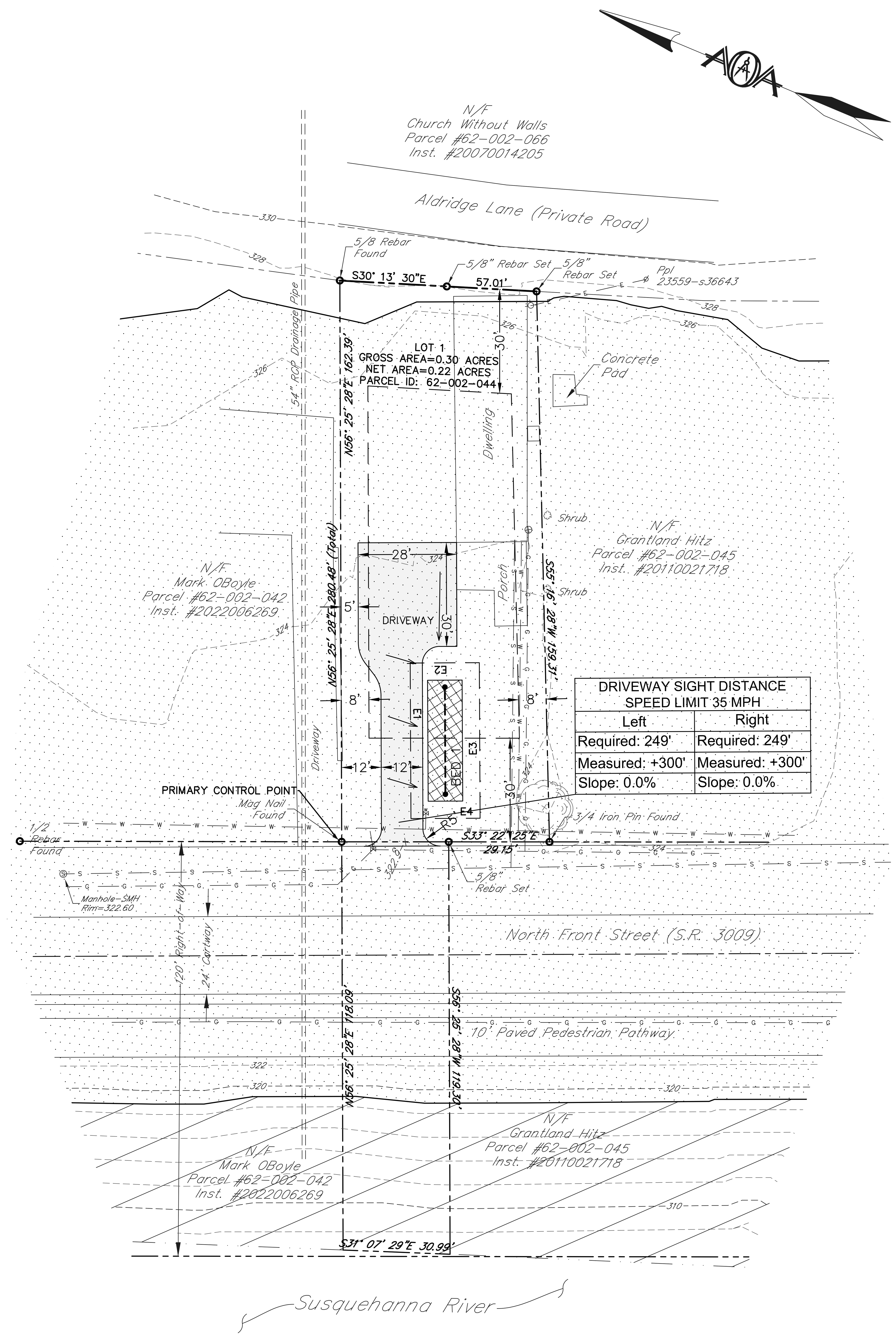
FILE PATH: \\ACTONESERVER\COMPANY BACKUP\2022\22-044 5213 N FRONT ST HENSHAW SUSQUEHANNA DAUPHIN\DRAWING\22-044 N FRONT ST HENSHAW.DWG
LAST SAVED: 7/18/2022 12:18 PM PLOTTED: 7/18/2022 12:19 PMPLOTTED BY: AOA-5



DRIVEWAY SIGHT DISTANCE SPEED LIMIT 35 MPH	
Left	Right
Required: 249'	Required: 249'
Measured: +300'	Measured: +300'
Slope: 0.0%	Slope: 0.0%

20 0 10 20 40
1 inch = 20 feet

ORIGINAL BOUNDARY CONFIGURATION



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Left	Right
Required: 249'	Required: 249'
Measured: +300'	Measured: +300'
Slope: 0.0%	Slope: 0.0%

20 0 10 20 40
1 inch = 20 feet

PROPOSED BOUNDARY CONFIGURATION

EXISTING LEGEND

Existing Feature Labeling Uses Lower Case Slanted Text

- Boundary Line
- Centerline
- Right-of-Way
- Contours (360)
- Edge of Paving
- Curb
- Edge of Gravel
- Minimum Building Setbacks
- Gas Line
- Water Line
- Sewer Line
- Overhead Electric
- Sewer Manhole
- Storm Drainage Pipe
- Low Water Line
- Utility Pole w/ Guy Wire
- Water Valve
- Gas Meter
- Gas Valve
- Electric Meter
- Tree
- Floodway (Interpolated)
- 100-Year Floodplain (Interpolated)

PROPOSED LEGEND

PROPOSED FEATURE LABELING USES UPPER CASE STRAIGHT TEXT

- BOUNDARY LINE
- TO BE COMBINED BY DEED
- EDGE OF PAVING
- FLOW PATH
- STORMWATER EASEMENT
- MINIMUM BUILDING SETBACKS
- IMPERVIOUS AREA
- INFILTRATION FACILITY

Easement Table		
	Direction	Length
E1	S56° 19' 41"W	45.00'
E2	N33° 40' 19"W	20.00'
E3	N56° 19' 41"E	45.00'
E4	S33° 40' 19"E	20.00'

FINAL SUBDIVISION PLAN/LOT ADD ON
FOR

JEFFREY K. HENSHAW
5213 & 5215 NORTH FRONT STREET

SUSQUEHANNA TOWNSHIP
DAUPHIN COUNTY
COMMONWEALTH OF PENNSYLVANIA

ACT ONE & Associates
Consulting Engineers & Surveyors
4701 N. Front Street, Harrisburg, PA 17110
(717) 236-7500, fax (717) 236-3314
Email: aoa@actoneassociates.com, Website: actoneassociates.com

DATE: June 8, 2022	REVISIONS: 7-15-22	DRAWN BY: MLN
SCALE: As Shown		CHECKED BY: RES
SHEET 2 OF 4		JOB NO.: 22-044

FILE PATH: \\ACTONESERVER\COMPANY BACKUP\2022\22-044 5213 N FRONT ST HENSHAW SUSQUEHANNA DAUPHIN\DRAWING\22-044 N FRONT ST HENSHAW.DWG
LAST SAVED: 7/18/2022 12:18 PM PLOTTED: 7/18/2022 12:19 PMPLOTTED BY: AOA-5

NOTES:

1. The purpose of this plan is to construct a driveway and other improvements. Volume control BMPs are required for impervious areas greater than 1,000 square feet.
2. All boundary information shown hereon are the results of a boundary retracement survey performed by ACT ONE & Associates on April 28, 2022.
3. All boundary, topographical, and contour information shown hereon is the result of a site survey as performed by ACT ONE & Associates. Elevations are based on North American Vertical Datum 1988 (NAVD88).
4. According to the FEMA Flood Insurance Rate Map Number: 42043C0309D, Panel 309 of 501, effective Date: August 2, 2012, the properties, as shown hereon, are located in the 100-year flood plain.The Base Flood Elevation (BFE) in the proximity of this parcel is 327.0 feet (NGVD 29).
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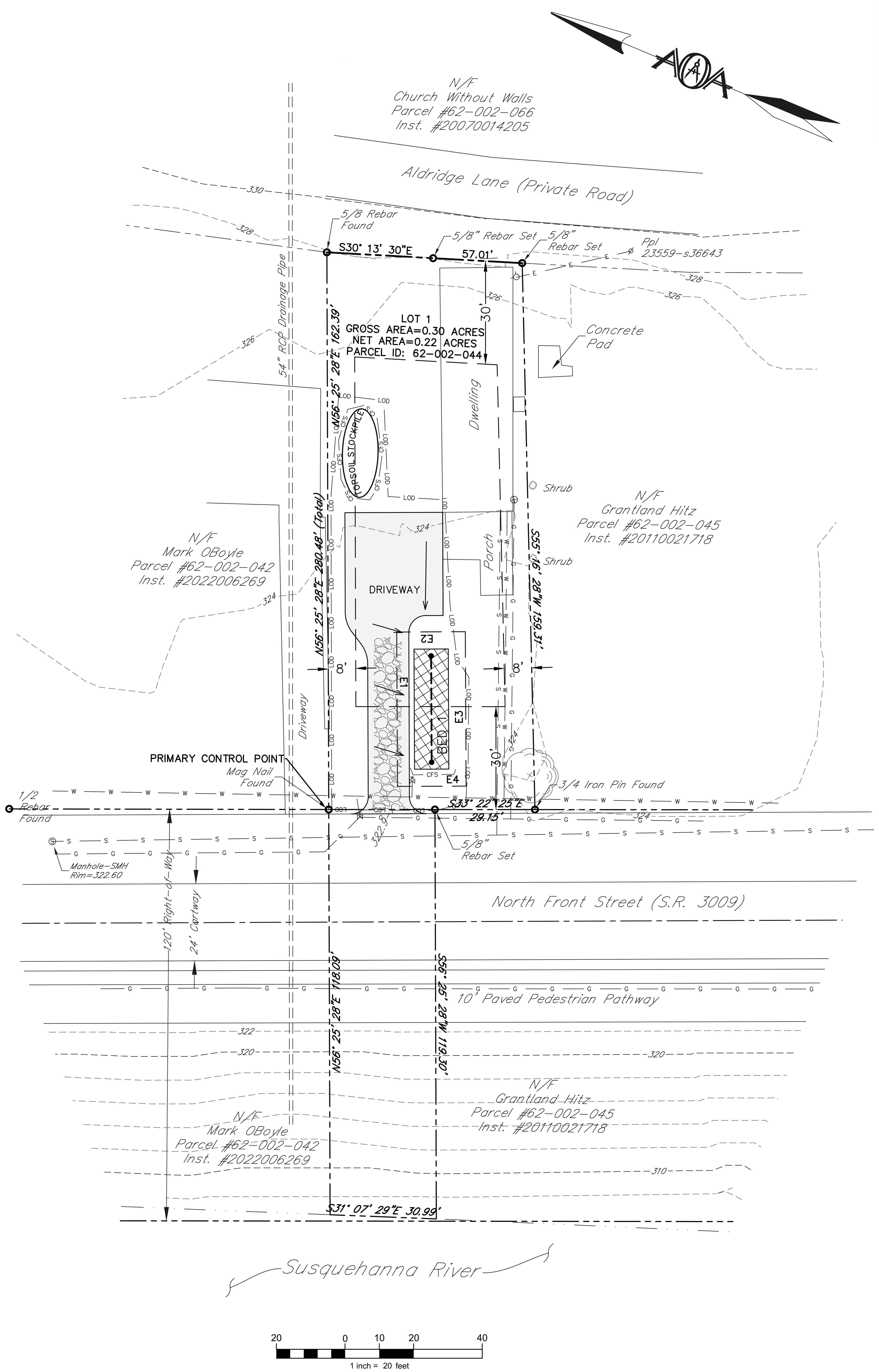
6. All existing utilities shall be contacted and the contractor must field verify their exact location. All utilities shown hereon are approximate. Contractor shall be required to contact the Pennsylvania One Call System in accordance with Act 287. Dial 811, or 1-800-242-1776 to place a dig notification.
7. All new impervious surfaces shall drain to the proposed BMP.
8. It shall be the developer's (property owners) responsibility to inspect and maintain the stormwater management facilities and assuring the continued functionality and required maintenance of the easement.
9. It shall be the developer's (property owners) responsibility to include an agreement containing a description of the stormwater management facility and a description of its required maintenance. The Susquehanna Township Standard Operation & Maintenance (O&M) Agreement which has been executed by the landowners hereon is part of this plan & shall be recorded with this plan as such.
10. If the SWMF does not function as intended soils testing may be necessary and a modified design and repair required to be approved by the township engineer.
11. Township officials and their agents or employees have the right of access to the property from the public right-of-way for the sole purpose of inspecting the stormwater management facilities.
12. Nothing shall be placed, planted, or set within an easement or right-of-way which would adversely affect the function of the easement or right-of-way, or conflict with any conditions associated with such easement or right-of-way.
13. No person shall place any structure, fill, landscaping, or vegetation into a stormwater bmp, facilities, areas, structures, or within a drainage easement that would limit or alter the functioning of the BMP without the written approval of the township.
14. The approved SWM site plan shall be on file at the project site throughout the duration of the construction activity.
15. The stormwater BMP depicted on this plan is designed to control 1,600 square feet of impervious area(a reserve of 13 cubic feet of storage is available if required). A separate approval is required for any impervious area proposed beyond the design limit or otherwise not in conformance with this plan.
16. Record drawings will be provided for all stormwater management facilities prior to occupancy, or the release of financial security.
17. The total limit of disturbance (LOD) will be 3,800 square feet (0.0872 acres). The entire site is mapped as Tioga (Tg) Fine Sandy Loam, High Bottom; 0-3% Slope, Depth to Restrictive Feature is More Than 80 Inches; Well Drained; Runoff Class: Low; Depth to Water Table is More Than 80 Inches; Hydrologic Soil Group (HSG) B.
18. At the completion of the project and as a prerequisite for the release of the financial guarantee, the applicant shall:
    - Provide a certification of completion from the engineer verifying that all permanent facilities have been constructed according to the stormwater management site plan and report and approved revisions thereto.
    - Provide a set of record drawings.
    - Request a final inspection from Susquehanna Township to certify compliance with this chapter, after receipt of the certification of completion and record drawings by Susquehanna Township.
19. The developer or the developer's contractor shall schedule a pre-construction meeting with Township staff prior to any earth disturbance activities.
20. The contractor must provide the Susquehanna Township Authority a 2-day notice prior to connecting into the existing sanitary sewer main so that a representative is present to observe the contractor's work.



PROPOSED BOUNDARY CONFIGURATION

Impervious Coverage Tabulation	
Component	Coverage (ft^2)
Concrete Pad	180
Gravel Driveway	668
Asphalt Driveway	280
Dwelling	1,488
Porch	380
Existing Total	2,996
Proposed Paving	1,600
Impervious Area Removed/Overlapped	1,128
Total Impervious Cover	3,468
Net Change in Impervious Area	472

Site Data

		Existing	Existing	Proposed
Lot		Lot #1	Lot #2	Lot #1
Parcel ID		62-002-044	62-002-043	62-002-044
Use		Residential "Single-Family Detached"	Residential "Vacant"	Residential "Single-Family Detached"
Area	Gross	0.1012 acres	0.1992 acres	0.3003 acres
		4,406.90 ft^2	8,675.62 ft^2	13,082.52 ft^2
	Net	0.1012 acres	0.1148 acres	0.2160 acres
		4,406.90 ft^2	5,001.01 ft^2	9,407.91 ft^2
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		42.4%	18.1%	36.9%
Building Area		1,488 ft^2	0 ft^2	1,488 ft^2
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Vegetative Cover		2,539 ft^2	4,097 ft^2	5,940 ft^2
		57.6%	81.9%	63.1%
Water Service		Public	Public	Public
Sewer Service		Public	Public	Public
Parking		2 Spaces	2 Spaces	2 Spaces

Easement Table		
	Direction	Length
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E2	N33° 40' 19"W	20.00'
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EXISTING LEGEND

Existing Feature Labeling Uses Lower Case Slanted Text

- *Boundary Line*
- *Centerline*
- *Right-of-Way*
- 360 *Contours*
- *Edge of Paving*
- *Curb*
- *Edge of Gravel*
- *Minimum Building Setbacks*
- G G G *Gas Line*
- W W W *Water Line*
- S S S *Sewer Line*
- E E E *Overhead Electric*
- S *Sewer Manhole*
- *Storm Drainage Pipe*
- *Low Water Line*
- *Utility Pole w/ Guy Wire*
- W *Water Valve*
- *Gas Meter*
- G *Gas Valve*
- *Electric Meter*
- *Tree*

PROPOSED LEGEND

PROPOSED FEATURE LABELING USES UPPER CASE STRAIGHT TEXT

- BOUNDARY LINE
- TO BE COMBINED BY DEED
- EDGE OF PAVING
- FLOW PATH
- STORMWATER EASEMENT
- MINIMUM BUILDING SETBACKS
- IMPERVIOUS AREA
- INFILTRATION FACILITY
- CFS CFS CFS COMPOST FILTER SOCK
- LOD LOD LOD LIMITS OF DISTURBANCE
- ROCK CONSTRUCTION ENTRANCE

PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776
STOP-CALL BEFORE YOU DIG!

The contractor shall verify all dimensions and existing conditions at the site before construction.
The contractor shall comply with the provisions of act 287 notification of utilities before excavation in the project area in order to determine the existence and location of all utilities. prior to any construction, the contractor will be required to contact all utilities and request them to mark their locations in the field. the one call system telephone number is (800) 242-1776

PA One Call Design I.D. #_20221034410___Date:_April 2022__.

SOURCE OF TITLE/APPLICANT - Lot #1

Jeffrey K. Henshaw
5213 North Front Street
Harrisburg, PA 17110
717 629-4816
jhenshaw@witmercompany.com
Tax Parcel Id. 62-002-044
Deed Book 374, Page 376
Parcel area = 0.1012 acres

SOURCE OF TITLE/APPLICANT - Lot #2

Jeffrey K. Henshaw
5213 North Front Street
Harrisburg, PA 17110
717 629-4816
jhenshaw@witmercompany.com
Tax Parcel Id. 62-002-043
Instrument No. 20200006984
Parcel area = 0.1992 acres

"I,_______________________________, hereby
Jeffrey K. Henshaw
acknowledge that the stormwater BMPs are fixtures that cannot be altered or removed without prior approval by the Township.

The O & M Agreement between Susquehanna Township and the property owner(s) hereon, as executed on ________is part of this plan.

"I,______________________________, hereby certify
Robert E. Shaffer, Jr.
that the Stormwater Management Site Plan meets all applicable design standards and criteria of the Township of Susquehanna Stormwater Management Ordinance.

"I,______________________________, hereby certify
Robert E. Shaffer, Jr.
that there are no wetlands on this parcel, and the proposed project when constructed in accordance with this plan will not impact any off-site wetlands, and permits are not required form the state or federal government.

STORMWATER MANAGEMENT AND EROSION & SEDIMENT POLLUTION CONTROL PLAN FOR

JEFFREY K. HENSHAW
5213 & 5215 NORTH FRONT STREET

SUSQUEHANNA TOWNSHIP
DAUPHIN COUNTY
COMMONWEALTH OF PENNSYLVANIA

ACT ONE & Associates
Consulting Engineers & Surveyors
4701 N. Front Street, Harrisburg, PA 17110
(717) 236-7500, fax (717) 236-3314
Email: aoa@actoneassociates.com, Website: actoneassociates.com

DATE: June 8, 2022	REVISIONS: 7-15-22	DRAWN BY: MLN
SCALE: As Shown		CHECKED BY: RES
SHEET 3 OF 4		JOB NO.: 22-044

Stabilization specifications

1. Permanent stabilization is defined as "a minimum uniform 70% perennial vegetative cover 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".
2. Immediately after earth disturbance activities cease, the operator shall stabilize the disturbed areas. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finish grade and which will not be redisturbed within one year must be stabilized in accordance with the permanent vegetative stabilization specifications.
3. Topsoil must be placed a minimum of 6" on all disturbed areas to be revegetated.
4. Straw and hay mulch should be anchored immediately after application to prevent being windblown. A tractor-drawn implement may be used to "crimp" the straw or hay into the soil. This method is limited to slopes no steeper than 3:1. The machinery should be operated on the contour. (note: crimping of hay or straw by running over it with tracked machinery is not recommended). A wood cellulose fiber may be spread over the straw mulch at a rate of 1,500 lb./acre.
5. Erosion control blankets must be installed on all disturbed slopes 3:1 and greater.
6. Tracking slopes is required by running tracked machinery up and down the slope, leaving tread marks parallel to the contour. (note: if a bulldozer is used, the blade shall be up). Care should be exercised on soils having a high clay content to avoid over compaction.

Temporary cover for erosion control on construction sites and other sediment-producing areas where additional soil disturbance is anticipated.

Species	Lb/A
For spring seeding (up to June 15th)	
Annual ryegrass	40
or spring oats,	96 (3 bu)
or spring oats plus ryegrass,	64 oats (2 bu) plus 20 lb annual or perennial ryegrass
or winter wheat,	180 (3 bu)
or winter rye	168 (3 bu)
For late spring and summer seeding (up to June 16th to August 15th	
Annual ryegrass	40
or Japanese or foxtail millet,	35
or sudangrass,	40
or spring oats,	96 (3 bu)
or winter wheat,	180 (3 bu)
or winter rye	168 (3 bu)
For late summer and fall seeding (August 16th and later)	
Annual ryegrass	40
or winter rye,	168 (3 bu)
or winter wheat,	180 (3 bu)
or spring oats,	
(can be used but winter kills	96 (3 bu)

Site preparation

Apply 1 ton of agricultural-grade limestone per acre, plus fertilizer at the rate of 50-50-50 per acre, and work in where possible. Secure a soil test before making a permanent seeding.

Mulch

Material may be wheat or oats straw. Binder may be an asphalt emulsion. Binder may also be a chemical mulch binder consisting of a polymer synthetic resin, polypectate or other material which gives similar properties as asphalt emulsion. Mulch seeded areas at the rate of 3 tons per acre. Take precautions to stabilize the mulch using asphalt emulsion at a rate of 100 gallons per acre or chemical binder mulch as approved. Mulch within 48 hours of seeding (lime rate should be 6 ton/acre).

Seeding

All disturbed areas shall be seeded with the specified seed mix at a rate of 48 lbs./acre of pure live seed (1.10 lbs./1000 S.F.). Seeding shall only be done during periods deemed suitable for seeding by the landscape architect or by the project engineer, (temporary seeding shall be applied from march to September).

Fertilizer

Fertilizers are not recommended, however if used shall be a composite commercial type and shall bear the manufacturer's guaranteed statement of analysis. A minimum of 35% of the total nitrogen content shall be guaranteed to be water insoluble nitrogen.

Any areas failing to establish a stand shall be re-seeded and re-mulched as directed by the landscape architect or by the project engineer. The repair any damage to the work areas resulting from erosion and/or equipment.

Permanent seeding specifications

Amendments:

Limestone - raw, ground agricultural limestone containing a minimum 90% carbonates, 240 pounds per 1,000 square feet.

Commercial fertilizer - 25 pounds 10-10-20 per 1,000 square feet mixed into the seedbed prior to seeding, or mixed with the seed if hydroseeding.

Mulch - clean oats or wheat straw, free of mature seed-bearing stalks or roots of prohibited or noxious weeds as defined by the Pennsylvania Seed Act of 1947. Apply at a rate of 3.0 tons per acre.
The mulch should be stabilized until the vegetative cover is established.

Permanent seed mixture	Proportion by weight	Minimum purity	Minimum germination
Tall fescue	60 lb. / ac.	95%	80%
Plus fine fescue	35 lb. / ac.	95%	80%
Or perennial ryegrass	15 lb. / ac.	95%	85%

Preparation of seed bed

Grade as necessary to bring subgrade to a true smooth slope parallel to and six (6) inches below finished grade. Place topsoil over area to a depth sufficient to obtain six (6) inches after settlement and light rolling. The completed work will conform to lines, grades and elevations shown or specified. Fertilizer and lime shall be thoroughly incorporated into the soil by rototilling or other method to the minimum depth of four (4) inches. The entire surface shall be seeded in two (2) separate operations. The second seeding shall be done immediately after the first and at right angles to the first seeding, and lightly raked into the soil. Mulch all areas immediately after seeding.

*seed mixture shall bear a guaranteed statement of analysis. All information taken from the Pennsylvania Agronomy Guide.

Maintenance Program

Until the site is stabilized, all erosion and sediment control BMP's must be maintained properly. Maintenance must include inspections of all erosion and sediment control BMP's after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including cleanout, repair, replacement, re-grading, reseeding, re-mulching, and re-netting must be performed immediately. If erosion and sediment control BMP's fail to perform as expected, replacement BMP's or modifications of those installed will be required.

The permittee and co-permittee must insure that visual site inspections are conducted weekly, and after each measurable precipitation event by qualified personnel, trained and experienced in erosion and sediment control, to ascertain that the Erosion and Sediment Control (E & S) BMP's are operational and effective in preventing pollution to the waters of the Commonwealth. A written report of each inspection shall be kept, and include:

1) a summary of the site conditions, E & S BMP's, compliance; and
2) the date, time, and name of the person conducting the inspection.

Any sediments removed from BMP's during construction will be returned to upland areas on site and incorporated into the site grading.

Vegetated Channel

Anchor trenches shall be installed at the beginning and the end of channel in the same manner as longitudinal anchor trenches. Channel dimensions shall be constantly maintained. Channel shall be cleaned whenever total channel depth is reduced by 25% at any location. Sediment deposits shall be removed within 24 hours of discovery or as soon as soul conditions permit access to channel without further damage. Damaged lining shall be repaired or replaced within 48 hours of discovery. No more than one third of the shoot (Grass Leaf) shall be removed in any mowing. Grass height shall be maintained between 2 and 3 inches unless otherwise specified. Excess vegetation shall be removed from permanent channels to ensure sufficient channel capacity.

Compost Filter Sock

Sock fabric shall meet standards of Table 4.1 of the PA DEP Erosion and Sediment Pollution Control Program Manual. Compost shall meet the standards of Table 4.2 of the PA DEP Erosion and Sediment Pollution Control Program Manual. 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 barrier alignment. Maximum slope length above any barrier shall not exceed that specified for the size of the sock and the slope of its tributary area.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 above and below. Compost filter socks shall be inspected weekly and after each runoff event. Damaged socks shall be repaired according to manufacturer's specifications or replaced within 24 hours of inspection. 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 final stabilization of the area tributary to the sock, stakes shall be removed. The sock shall be left in place and vegetated as a water quality BMP.

Topsoil Stockpile

Topsoil required for the establishment of vegetation shall be stockpiled at the location(s) shown on the plan map(s) in the amount necessary to complete the finished grading of all exposed areas that are be stabilized by vegetation. Each stockpile shall be protected in the manner shown on the plan drawings. Stockpile heights shall not exceed 35 feet. Stockpile side slopes shall be 2H:1V or flatter.

Pumped Water Filter Bags

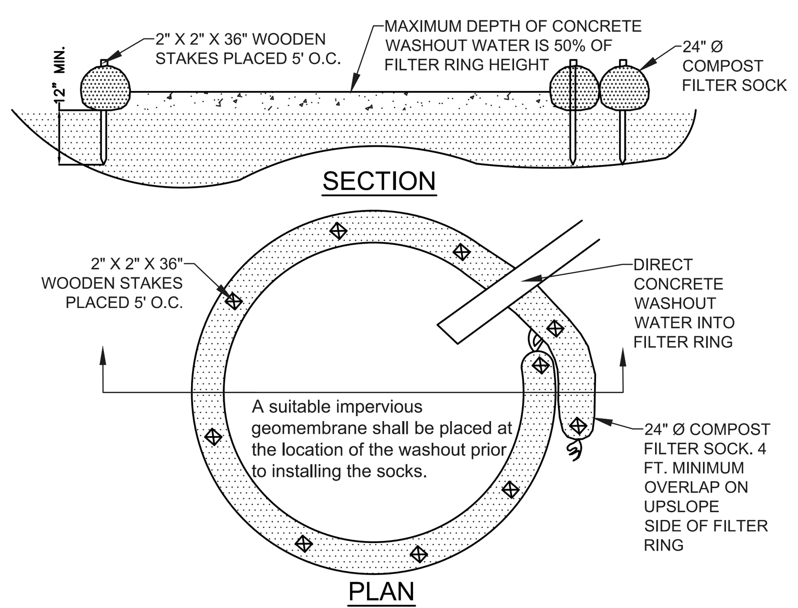
When used, bags shall be replaced when they become one half full. Spare bags shall be kept available for replacement of those that have failed or are filled. Bags shall be located in well-vegetated (grassy) area, and discharge onto stable, erosion resistant areas. Where this is not possible, a geotextile flow path shall be provided. Bags shall not be placed on slopes greater than 5%.

Material Disposal

Sediments from all control devices will be removed by spreading and drying on site and stabilizing by seeding within a short period of time (silt fence within 24 hours; sediment ponds and sediment traps within 36 hours); or preferably, it will be added to the topsoil pile and mixed and used as a soil amendment. All temporary control measures and facilities should be inspected weekly and after every runoff event. Whenever possible, recycling of excess materials is preferred, rather than disposal. Materials that qualify for "Clean Fill" under the DEP definition can be used as fill material without a permit from the agency. This is provided it is not placed in waters of the commonwealth (including wetlands). "Clean Fill" by definition is uncontaminated block, brick, stone, soil, clay, concrete, or asphalt. Due Diligence is required to ensure the material meets the Clean Fill definition. This may involve research into past land uses and practices, and material inspection and testing. Any other waste materials encountered will be disposed of according to the Solid Waste Management Act (of July 7, 1980, P.L. 380, No. 97, 35 P.S. Section 6018.610) and pertinent 25 Pa Code DEP regulations.

Stormwater Pipes and Underdrains

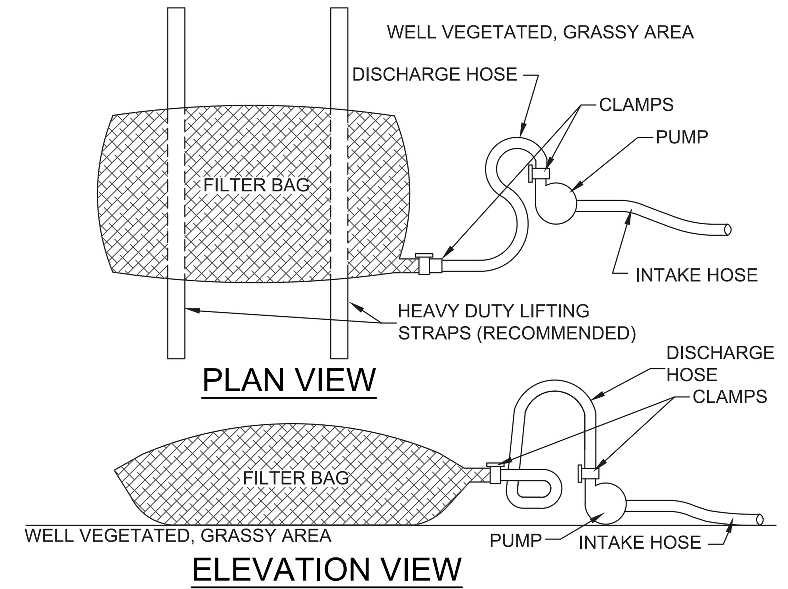
Maintenance & repair of the Stormwater Pipes and Underdrain not located within a public right-of-way is the responsibility of the individual lot owners. An underdrain is a perforated pipe that carries collected water. Typically the perforated pipe is laid in a trench and then backfilled with an open-graded aggregate. The primary maintenance concern associated with these systems is blockage of the pipe outlets and accumulation of sediment within pipes. If routine inspections suggest the possibility of reduced efficiency for the underdrain system, the network should be flushed with large quantities of clean water. Suction pumps, high pressure pumps, and powered rotary cleaners may be required to clean out sections of pipe that have become clogged with roots and sediment. Herbicides may be considered for use in controlling root growth, but special attention should be given to their impact on nearby vegetation and surface and ground water sources. Herbicides can only be used in conformance with applicable anti-pollution laws. If attempts to clean the system are unsuccessful, damaged pipes must be removed, cleaned, or replaced. Use of filter cloth should be considered when replacing underdrains. Stormwater pipes are subject to abrasion and corrosion, as stated above. These pipes should be inspected periodically (at least once a year) to determine if deterioration of the inverts has taken place. If the deterioration prevents the pipe from functioning as designed, the pipe should be replaced.



NOTES:
- INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
- 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.

TYPICAL COMPOST SOCK WASHOUT

NOT TO SCALE



NOTES:

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 FOLLOWING 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

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

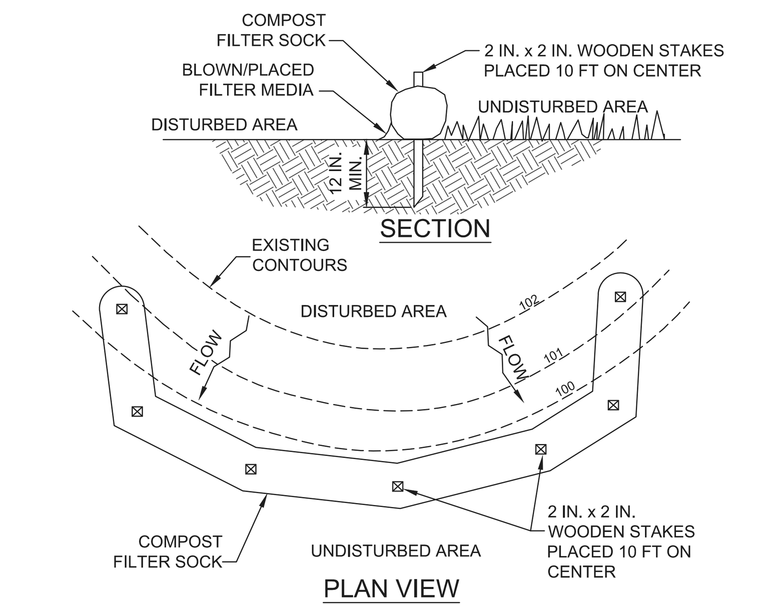
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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.

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

NOT TO SCALE



NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL.
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 BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
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 EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
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

Standard E&S Worksheet #1
Compost Filter Socks Table

Sock No.	Diameter (in)	Location	Slope (%)	Slope Length Above Barrier (ft)
CFS-1	8	Downslope of driveway	4	156

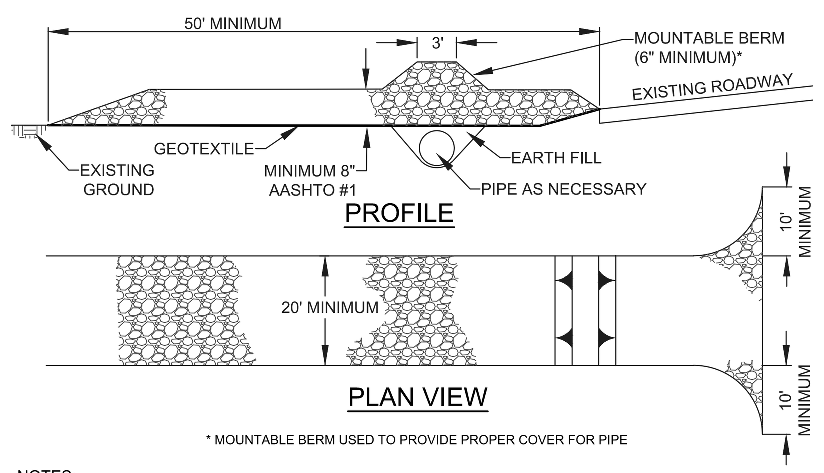
STORMWATER INFILTRATION BED NOTES
1. The contractor shall prevent vehicular traffic and construction equipment from crossing the area during construction.
2. The bed bottoms shall be level and be sized as shown.
3. The Contractor shall not compact the bottom of the bed during construction in order to maintain soil permeability.
4. No trees shall be planted over the surface of the infiltration bed and a 5 foot buffer shall be observed around the perimeter of the bed where no trees shall be permitted.
5. A leaf diverter/downspout filter shall be installed on every downspout that connects to the subsurface infiltration bed.
6. The grated overflows shall be capable of preventing rodent entry.
7. Non-woven geotextile shall consist of needled non-woven polypropylene fibers and meet the following properties:
   a. Grab tensile strength (ASTM-D4632) 120 lbs
   b. Mullen burst strength (ASTM-D3786) 225 psi
   c. Flow rate (ASTM-D4491) 95 gal/min/ft^2
   d. UV Resistance after 500 hrs (ASTM-D4355) 70%
   e. Heat-set or heat-calendared fabrics are not permitted, acceptable types include Mirafi 140N, Amoco 4547, and Geotex 451.
8. Stone for infiltration bed shall be 2-inch to 1-inch uniformly graded coarse aggregate, with a wash loss of no more than 0.5%, AASHTO Size Number 3 per AASHTO specifications, Part I, 19th ed., 1998, or later and shall have voids 40% as measured by ASTM-C29.
9. The minimum slope for leader pipe shall be 1/4" per foot.

STORMWATER INFILTRATION BED CONSTRUCTION SEQUENCE NOTES

Due to the nature of construction sites, subsurface infiltration should be installed toward the end of the construction period, if possible.
1. Install and maintain adequate Erosion and Sediment Control measures (as per the Pennsylvania Erosion and Sedimentation Control Program Manual) during construction.
2. The existing subgrade under the bed area should not be compacted or subject to excessive construction equipment traffic prior to geotextile and stone bed placement.
3. Where erosion of subgrade has caused accumulation of fine materials and/or surface ponding, this material should be removed with light equipment and the underlying soils scarified to a minimum depth of 6 inches with a york rake (or equivalent) and light tractor. All fine grading should be done by hand. All bed bottoms should be at level grade.
4. Earthen berms (if used) between infiltration beds should be left in place during excavation. These berms do not require compaction if proven stable during construction.
5. Install upstream and downstream control structures, cleanouts, perforated piping, and all other necessary stormwater structures.
6. Geotextile and bed aggregate should be placed immediately after approval of subgrade preparation and installation of structures. Geotextile should be placed in accordance with manufacturer's standards and recommendations. Adjacent strips of geotextile should overlap a minimum of 16 inches. It should also be secured at least 4 feet outside of bed in order to prevent any runoff or sediment from entering the storage bed. This edge strip should remain in place until all bare soils contiguous to the bed are stabilized and vegetated. As the site is fully stabilized, excess geotextile along bed edges can be cut back to the edge of the bed.
7. If one is specified on the plan: the 24"x24" catch basin shall be installed on a level 6" compacted bed of 2A aggregate. The compacted aggregate shall extend 6" up the sides of the box as shown. Four 1/2" inch diameter weep holes shall be placed at the invert of the box as shown on the detail.
8. Clean-washed, uniformly graded aggregate should be placed in the bed in maximum 8-inch lifts. Each layer should be lightly compacted, with construction equipment kept off the bed bottom as much as possible.
9. Approved soil media should be placed over infiltration bed.
10. Seed and stabilize topsoil.
11. Do not remove inlet protection or other erosion and sediment control measures until site is fully stabilized.

INFILTRATION BED SHORT TERM AND LONG TERM OPERATION & MAINTENANCE REQUIREMENTS

RESPONSIBLE PARTY	The responsible party for the continuous and proper function of this BMP shall be the property owner(s) for which the BMP is located on, as indicated on this plan, and the future property owner(s) when transferred by sale.	
OPERATION & MAINTENANCE	TASK/ACTIVITY	*SCHEDULE
	Post-Construction Inspection	Verify the BMP is cleared of any sediment and debris, and functions as designed.
	Catch Basin inspection for sediment in the vicinity of the trench(s)	2 times per year, remove accumulated sediment.
	Driveway Trench Drain *or* Any Other Pipe Connections	2 times per year, remove accumulated sediment along trench drain grate and pipe openings.
	Weeding	1 time per year, and as required throughout the growing season. No trees shall be planted over the surface of the infiltration trench(s), and within a 5 foot buffer around the trench(s).
	Detritus Removal	2 times per year. Upslope vegetated areas to be mowed shall have the grass clippings bagged, or mowed in a manner to direct the clipping away from the trench(s).
	Sediment removal	2 times per year, Inspect filter fabric for sediment deposits by removing a small section of the top layer of river jacks.
	72 hour dewatering	After rainfall events of 1-inch or greater, inspect trench to ensure that it drains between storms, as designed and approved.
	Use of fertilizers shall be avoided on site, particularly around, and upslope of any BMP	
	*BMPs shall be inspected after rainfall events of 1-inch or greater and maintained in accordance with this table	
TYPICAL BMP FAILURES	CAUSE/FIELD CONDITION	COMMON SOLUTION
	Upslope vegetation die off	Re-seed or re-plant, and maintain all contributing upslope vegetated areas in accordance with original plan specification or equivalent, fertilize and mulch.
	Rills and gullys on side slopes, inflow areas, and Berms	All rills and gullys formed by erosion shall be repaired to original conditions, seeded and mulched. Apply Erosion Control Blankets to areas where slopes are 3 to 1 and greater, or in swales.
	Soil compaction by heavy equipment and other vehicles.	Vehicles shall not be permitted on or to cross over the BMP. Delineators may be installed to alert motorists of the BMP.
	Riprap outlet (scour) protection washes away	Replace riprap with a larger diameter based on the channel size, slope, and discharge velocity.
	Clogging and sediment deposits	Remove clogs and sediment from R-3 riprap and replace R-3 as necessary. Remove clogs and sediment from Class 1 non-woven geo-textile. Remove and replace damaged Class 1 non-woven geo-textile and AASHTO No. 4 (trench material) per plan specifications.



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

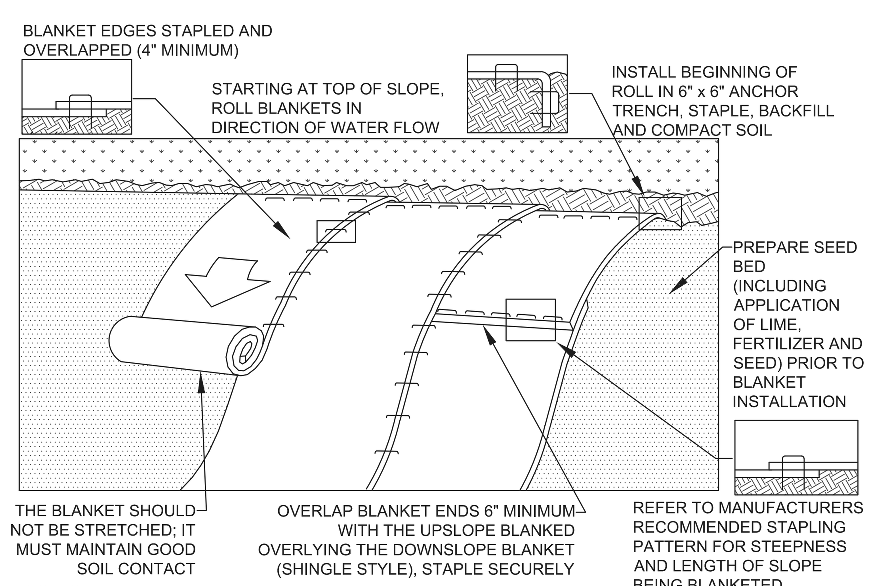
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

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 SITE 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.

STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE

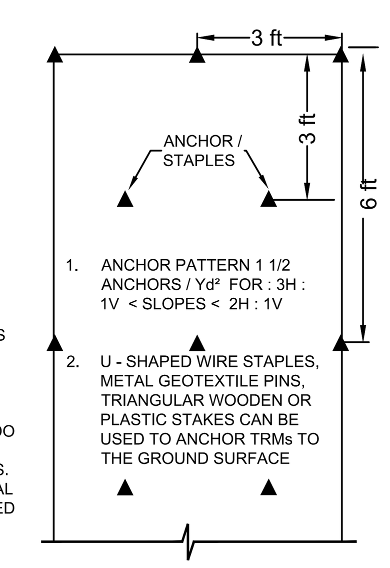
NOT TO SCALE



NOTES:
- 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 EVENT UNTIL PERENNIAL VEGETATION 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

NOT TO SCALE



STAPLE PATTERN FOR SLOPES 3:1 - 2:1

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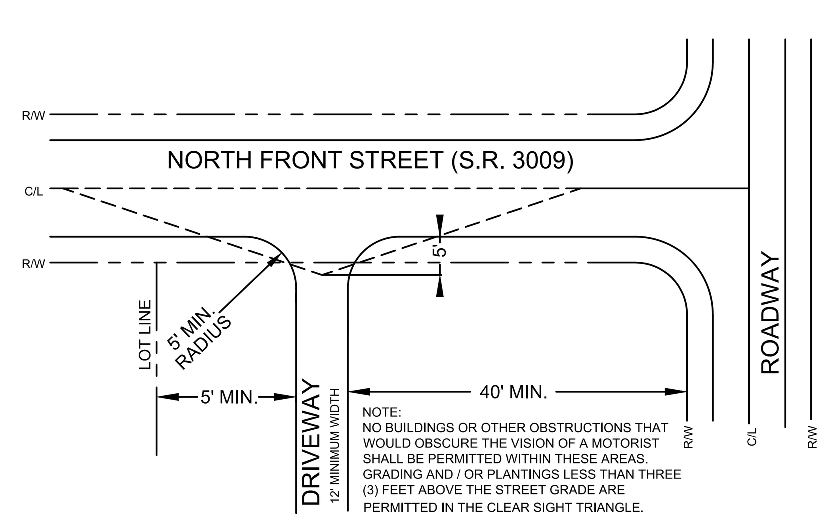

CLEAR SIGHT TRIANGLE

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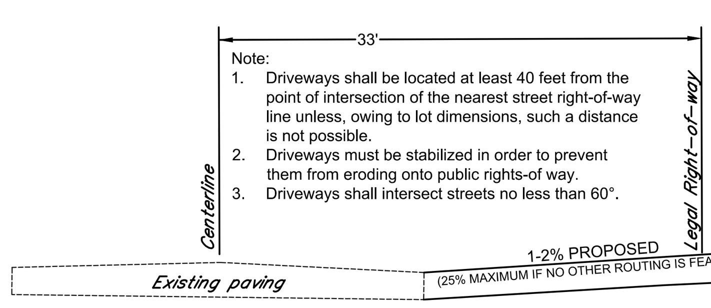

DRIVEWAY PROFILE

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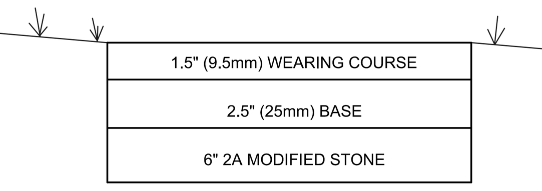
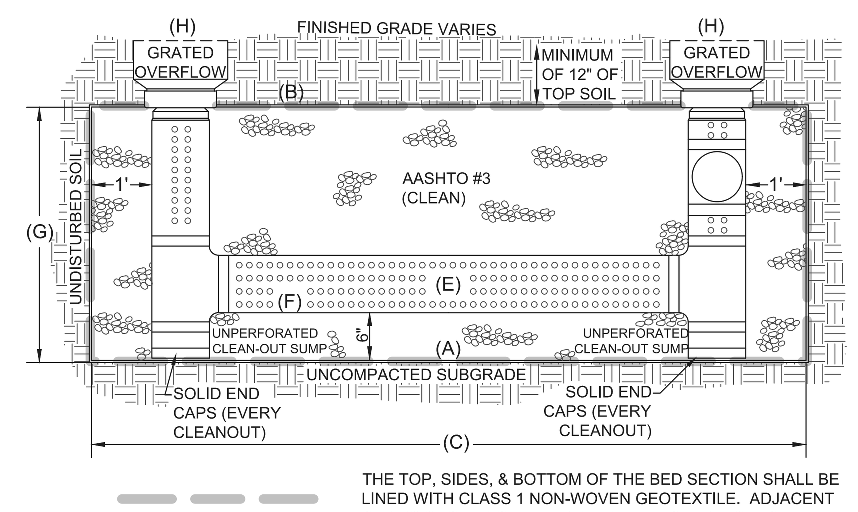


TYPICAL DRIVEWAY & PARKING PAVING SECTION

NOT TO SCALE

INFILTRATION BED PROFILE	A	B	C	D	E	F	G	H
	BED BOTTOM LEVEL (FT)	TOP OF BED LEVEL (FT)	LENGTH OF BED (FT)	WIDTH OF BED (FT)	LENGTH OF PERFORATED 6" Ø SDR 35 PIPE (LF)	PIPE INVERT (FT)	DEPTH OF BED (FT)	GRATED OVERFLOW (FT)
Bed-1	320.0	322.0	35	10	33	320.5	2	±323.0



INFILTRATION BED-1 PROFILE

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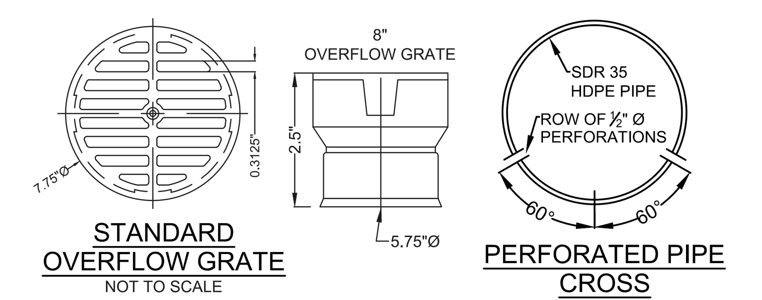


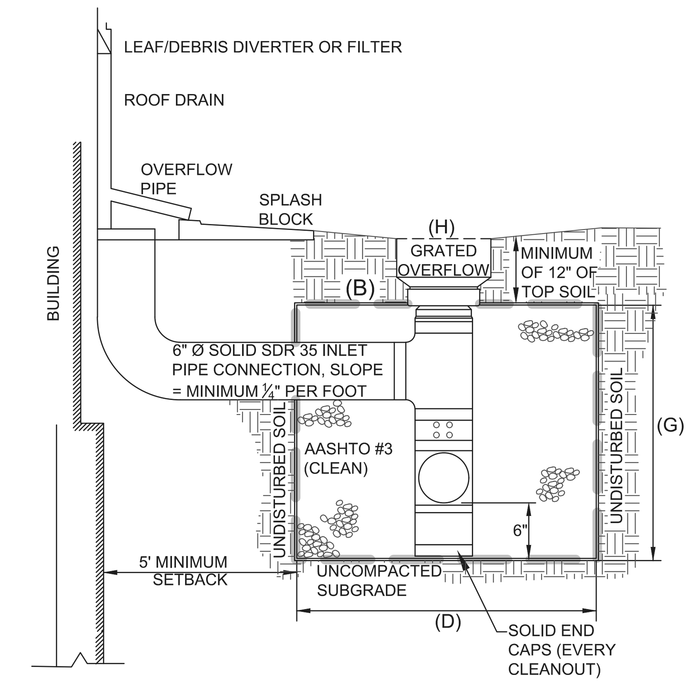
STANDARD OVERFLOW GRATE

NOT TO SCALE

PERFORATED PIPE CROSS

NOT TO SCALE

Approximate drain area = 11.5 in².
Standard grate with light duty rating
Material: painted ductile iron, or HDPE with U.V. inhibitor. NDS Part No. 20 depicted.
Various types of outlets with watertight adapters are available for: SDR-35 sewer, Schedule 40 DWV



INFILTRATION BED-1 SECTION

NOT TO SCALE

FINAL SUBDIVISION PLAN/LOT ADD ON FOR

JEFFREY K. HENSHAW
5213 & 5215 NORTH FRONT STREET

SUSQUEHANNA TOWNSHIP
DAUPHIN COUNTY
COMMONWEALTH OF PENNSYLVANIA

ACT ONE & Associates
Consulting Engineers & Surveyors
4701 N. Front Street, Harrisburg, PA 17110
(717) 236-7500, fax (717) 236-3314
Email: aoa@actoneassociates.com, Website: actoneassociates.com

DATE: June 8, 2022	REVISIONS: 7-15-22	DRAWN BY: MLN
SCALE: As Shown		CHECKED BY: RES
SHEET 4 OF 4		JOB NO.: 22-044

FILE PATH: \\ACTONESERVER\COMPANY BACKUP\2022\22-044 5213 N FRONT ST HENSHAW SUSQUEHANNA DAUPHIN\DRAWING\22-044 N FRONT ST HENSHAW.DWG
LAST SAVED: 7/18/2022 12:18 PM PLOTTED: 7/18/2022 12:19 PM PLOTTED BY: AOA-5