PRELIMINARY/FINAL LAND DEVELOPMENT PLAN

AMBLER LIBRARY

SITUATED AT:

209 RACE STREET
AMBLER, PA 19002

AMBLER BOROUGH
MONTGOMERY COUNTY, PENNSYLVANIA

APPLICANT:

WISSAHICKON VALLEY PUBLIC LIBRARY

650 SKIPPACK PIKE
BLUE BELL, PA 19422

PROJECT CONSULTANTS:

CIVIL ENGINEERS/SURVEYORS:

CHARLES E. SHOEMAKER, INC.
1007 EDGE HILL ROAD
ABINGTON, PA 19001
215-887-2165

PROJECT ARCHITECT:

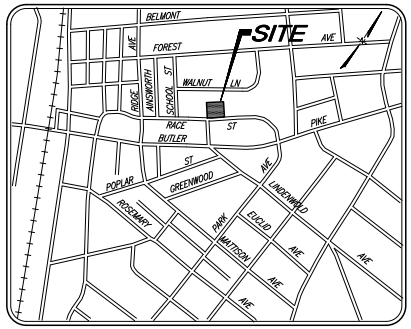
VITETTA
BALDWIN TOWER, SUITE 104
1510 CHESTER PIKE
EDDYSTONE, PA 19022
215-218-4747

LANDSCAPE ARCHITECT:

INFOCUS PLANNING
C/O RACHEL VAHAY, RLA, ASLA, LEED AP
7715 CRITTENDEN STREET #343
PHILADELPHIA, PA 19118
267-336-7411

GEOTECHNICAL ENGINEERING:

EARTH ENGINEERING, INC.
115 W. GERMANTOWN PIKE
EAST NORRITON, PA 19401
610-277-0880



LOCATION MAP
SCALE: 1" = 800'

LIST OF DRAWINGS

SHEET No.	CIVIL SITE PLANS	LAST REVISED
1	COVER SHEET	4/10/19
2	LAND DEVELOPMENT PLAN	4/10/19
3	EXISTING FEATURES/DEMOLITION PLAN	4/10/19
4	GRADING AND UTILITY PLAN	4/10/19
5	EROSION CONTROL PLAN	4/10/19
6	CONSTRUCTION DETAILS	4/10/19
7	CONSTRUCTION DETAILS	4/10/19
8	AERIAL EXHIBIT PLAN	4/10/19

SHEET No.	LANDSCAPE PLANS	LAST REVISED
LP-1	LANDSCAPE PLAN	4/10/19

DATE	NO.	REVISION	BY
4/10/19	1	BOROUGH ENGINEER ISSUES #1	CWB

TAX PARCEL NO.
01-00-03922-00-1
BLOCK / UNIT
0402 / 023
SITE ADDRESS
209 RACE STREET
AMBLER, PA 19002
DEED BOOK - PAGE
3055-258

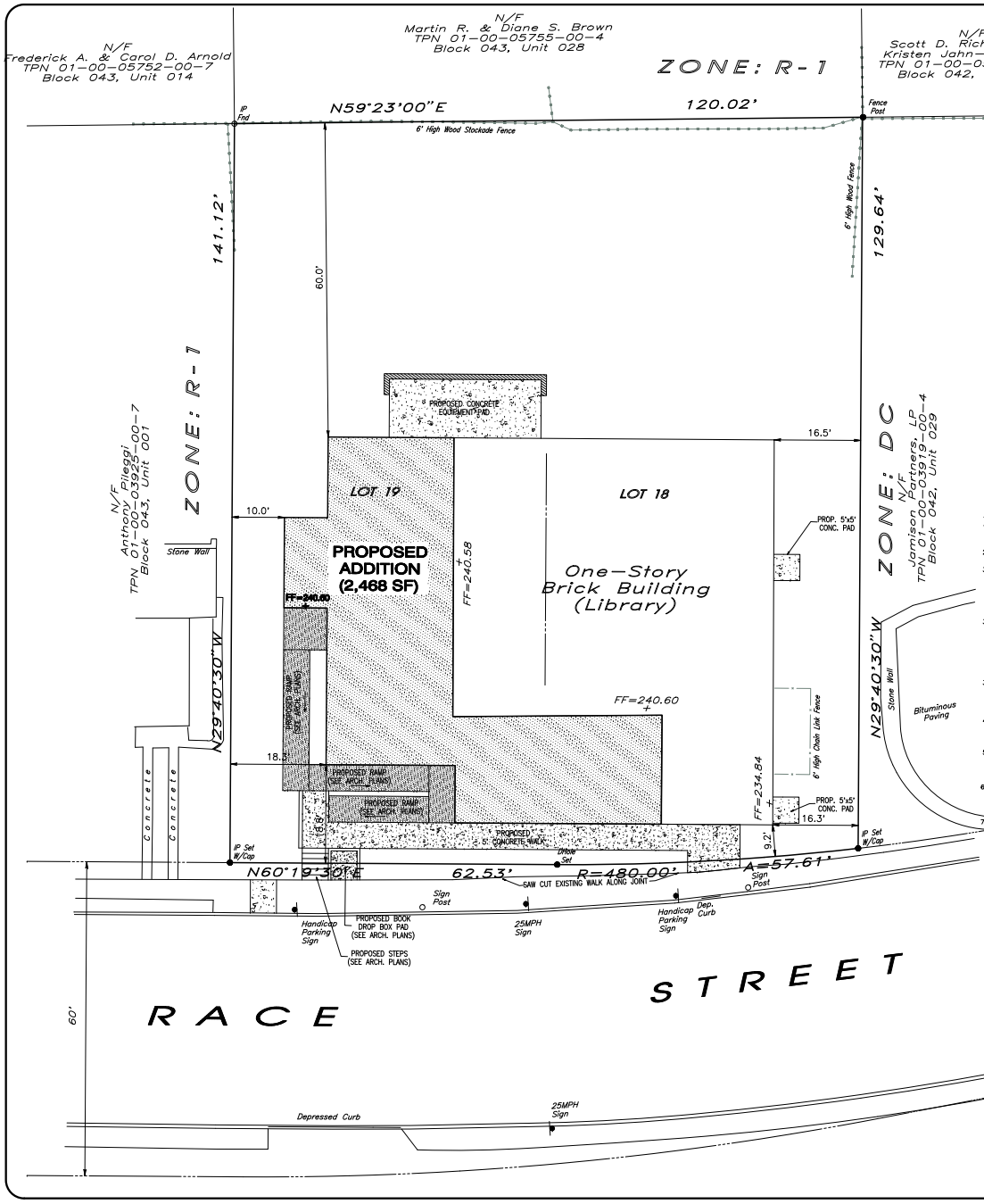
OWNER OF RECORD
AMBLER PUBLIC LIBRARY
209 RACE STREET
AMBLER, PA. 19002

CHARLES E. SHOEMAKER, INC.
ENGINEERS & SURVEYORS
1007 EDGE HILL ROAD ABINGTON, PA. 19001
PHONE: 215-887-2165 FAX: 215-576-7791
E-MAIL: staff@ceshoemaker.com

SCALE AS NOTED

COVER SHEET
of
AMBLER LIBRARY
AMBLER BOROUGH, MONTGOMERY COUNTY, PA.
Prepared for
WISSAHICKON VALLEY PUBLIC LIBRARY
650 SKIPPACK PIKE
BLUE BELL, PA. 19422

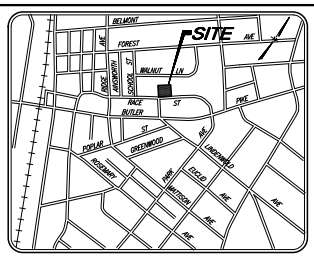
DATE
MARCH 6, 2019
DWG NO.
AMBLER-163
JOB NO.
26451
SHEET NO.
1 of 8



LEGEND

- CONCRETE MONUMENT FOUND
- CONCRETE MONUMENT TO BE SET
- IRON PIN FOUND
- DRILL HOLE SET
- IRON PIN SET
- EXISTING SIGN

811
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA. ACT 121 (2008) REQUIRES THREE BUSINESS DAYS NOTICE TO UTILITIES BEFORE EXCAVATE, DRILL, BLAST OR DEMOLISH
SERIAL NO. 20171381197



LOCATION MAP
SCALE: 1" = 800'

ZONED : DC - DOWNTOWN COMMERCIAL

	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	1,500 SF	16,987 SF	16,987 SF
MAXIMUM BUILDING AREA	80 %	21.6 % (3,672 SF)	36.2 % (6,140 SF)
MAXIMUM BUILDING HEIGHT	40 FT	<40 FT	<40 FT
MAXIMUM IMPERVIOUS AREA	N/A	5,285 SF	7,509 SF

ZONING RELIEF:

A. Zoning Variances were granted by the Borough of Ambler Zoning Hearing Board (Case No. 18-3111-ZHB) on February 1, 2018 for the following:

1. Section 27-2604.3 and section 27-2603.E.(5) of the Borough of Ambler Zoning Ordinance to allow the relocation of the Main Entrance to the structure on the Property to a location nine (9) feet from the boundary of the "R-1" Residential District, within the 40-foot buffer, in order to provide ADA ramp and accessible access to the Main Entrance to the structure on the Property, as shown on the "Boundary & Topography Plan", as prepared by Charles E. Shoemaker, Inc. and dated June 21, 2017.
   a. Such relief is granted as long as applicant installs a natural buffer along the southwest boundary of the subject property in accordance with the requirements contained in the Borough of Ambler Subdivision and Land Development Ordinance, with the height and depth of the buffer being reasonably sized given the constraints of the subject property's lot lines.
2. Section 27-2603.E(4) of the Borough of Ambler Zoning Ordinance to allow an expansion of the gross floor area of the existing non conforming structure on the Property from the existing 3,672 square feet to no more than the proposed 6,152 square feet.
3. Section 27-2804, Section 27-2102 and Section 27-1704 of the Borough of Ambler Zoning Ordinance to allow the extension of the existing parking non-conformity, to satisfy the requirements for the parking for the Applicant's proposed addition as shown on the "Boundary & Topography Plan", as prepared by Charles E. Shoemaker, Inc. and dated June 21, 2017.

REQUESTED WAIVER LIST:

1. SALDO Section 22-307.2.E(1) – Show existing features within 100 feet. Partial waiver is requested. A legible aerial photograph will be provided showing existing features within 400 feet in lieu of performing survey.
2. SALDO Section 22-308.A – Preliminary and final plan procedures. A waiver requested to consider project for final/preliminary approval concurrently.
3. SALDO Appendix B-100.3 – Street trees shall be between the legal right-of-way and the building setback line. Trees shall be planted a minimum distance of 5 feet and a maximum distance of 15 feet from the legal right-of-way. Trees shall be planted a minimum distance of 3 feet from curbs and sidewalks, 15 feet from overhead utilities and 6 feet from underground utilities. A waiver of this section is requested to allow planting of street trees within 5 feet of the right-of-way, within 3 feet of sidewalks, and within 15 feet of overhead utilities.
3. SALDO Appendix B-100.4 – Buffer shall be 15 feet wide in total and shall consist of a 6 foot tall fence made of wood or simulated wood. Evergreens shall be planted along the inside of the fence, be at least 6 feet in height (reach mature height of at least 12 feet), planted 5 feet apart. Zoning relief was granted for the western property line to allow the 10 foot side yard under the condition that a natural buffer be placed. A waiver of this section is requested to reduce the buffer width to 10' along the western property line and from the requirement to place the 6 foot tall fence along the northern and western property lines.
3. SWM Section 26-424.B. – Approval of Earth Disturbance Activities is required by the Borough per Table 26-406.2. Partial waiver is requested. Earth disturbance is over 5,000 square feet, but less than 6,000 square feet. Exceedence of 5,000 is necessary to make this project ADA compliant. The applicant requests that the Erosion Control Plan be only reviewed and approved by the Borough Engineer.
4. SWM Section 26-426 – Groundwater recharge is required for projects that create more than 1,000 square feet of additional impervious area and disturb more than 5,000 square feet. Due to the existing topography of the site, size of the lot, and proximity to adjacent structures with basements, a waiver of this section is requested.
5. SWM Section 26-427 – Volume Control is required for projects that create more than 1,000 square feet of additional impervious area and disturb more than 5,000 square feet. Due to the existing topography of the site, size of the lot, and proximity to adjacent structures with basements, a waiver of this section is requested.
6. SWM Section 26-428 – Stream Bank Erosion Control is required for projects that create more than 1,000 square feet of additional impervious area and disturb more than 5,000 square feet. Although flows will be attenuated through a proposed stormwater management conveyance system, orifices are not proposed in an outlet structure. A waiver of this section is requested.
7. SWM Section 26-430.J – The design of any stormwater detention facility intended to meet the performance standards of the Ordinance shall be verified by routing the design storm hydrograph through the facilities using the Storage-Indication Method. The design storm hydrograph shall be computed using an acceptable calculation method (Table 26-430.1) that produces a full hydrograph. The design hydrographs in the report were generated using the Dekalb method, which is based on the Rational Method. The Rational Method is acceptable for peak flow determination only. The design hydrographs must be generated using a method such as TR-55 or TR-20 (e.g. Soil Cover Complex Methods or other method that produces a full hydrograph). A waiver of this section is requested in order to maintain use of the hydrographs and routing utilizing the Dekalb Rational Method.

MCPC No. 19-0062-001

PROCESSED and REVIEWED: A report has been prepared by the Montgomery County Planning Commission in accordance with the Municipalities Planning Code.

Certified this date _____

_____
For the Director
MONTGOMERY COUNTY PLANNING COMMISSION

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF MONTGOMERY

On this _____ day of _____, 20____, before me, the Subscriber, a Notary Public of the Commonwealth of Pennsylvania personally appeared Anne Frank, who acknowledged herself to be the the Executive Director of Ambler Public Library, and that as such officer, being authorized to do so, acknowledged this plan to be the official plan of the property shown hereon, situate in the Borough of Ambler, County of Montgomery, Commonwealth of Pennsylvania and desires that this plan be duly recorded according to law.

Witness my hand and notarial seal, the day and year aforesaid.

_____ _____
Notary Public My Commission Expires

I hereby certify that Ambler Public Library is the registered owner of the lland herein shown and that Ambler Public Library does adopt this plan.

Ambler Public Library

_____
Anne Frank, Executive Director

Approved by the Ambler Borough Planning Commission this _____ day of _____, 20___.

_____ _____
By Title

Approved by the Ambler Borough Council this _____day of _____, 20___.

_____ _____
President Secretary

_____
Borough Engineer

Recorded in the Office for the Recording of Deeds, etc., in and for the County of Montgomery at Norristown, PA in Plan Book _____ Page _____ on the _____day of _____, 20___.

NOTES

1. Boundary information shown taken from deeds and plans of record, and field surveys performed by Charles E. Shoemaker, Inc. during June, 2017.
   REFERENCE PLANS:
   a) Plan of Lots, Hart Tract, prepared by C. Raymond Weir, Registered Surveyor, Ambler Borough, dated February 19, 1938 and last revised November 29, 1938 & June 6, 1949 and further revised March 22, 1955.
   b) Plan of Property prepared for I. Ely Hough dated April 5, 1949 by C. Raymond Weir, P.E.
2. Topographic information shown taken from field survey performed by Charles E. Shoemaker, Inc. during June, 2017. Datum based on NGVD 1988.
3. Existing underground utility locations were plotted from utility company plans supplied to us in accordance with PA ONE CALL (2008) or by physical survey locations. All underground utility locations are approximate only. Contractors are required by PA ONE CALL to verify the exact locations of all underground utilities prior to commencing excavation activities.
   Pennsylvania One Call Systems, Inc., phone No. 1-800-242-1776.
4. Site is designated in Flood Zone X (Areas determined to be outside of 0.2% annual chance floodplain) as shown on Flood Insurance Rate Map of Montgomery County, Community Panel Nos. 42123E 0286G, revised March 2, 2016.

PROFESSIONAL LAND SURVEYOR'S CERTIFICATION:

I, JOHN T. REILLEY, a registered professional Land Surveyor in the Commonwealth of Pennsylvania, Registration No. 032496-E, do hereby certify to the best of my knowledge, the existing features, topography metes and bounds shown on this plan are in accordance with the minimum standards of practice for Professional Land Surveyors in the Commonwealth of Pennsylvania as adopted by the Pennsylvania Society of Land Surveyors in July of 1996 (or as subsequently adopted).

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JOHN T. REILLEY
LAND SURVEYOR
SU-032496-E

_____
(Signature of Registered Professional Land Surveyor)

PROFESSIONAL ENGINEER'S CERTIFICATION:

I, RICHARD A. STONEBACK, a registered Professional Engineer in the Commonwealth of Pennsylvania, Registration No. 024615-E, do hereby certify to the best of my knowledge, the information contained on the accompanying plans, specifications and reports, has been prepared in accordance with accepted engineering practice, is true and correct, and is in conformance with Township Ordinances.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD A. STONEBACK
ENGINEER
PE-024615-E

_____
(Signature of Registered Professional Engineer)

SITE AREA

AREA TO THE TITLE LINES
16,987 SF or 0.3900 Acres

DATE	NO.	BOROUGH ENGINEER ISSUES #1 REVISION	BY
4/10/19	1		CWB

TAX PARCEL NO.
01-00-03922-00-1
BLOCK / UNIT
042 / 001
SITE ADDRESS
209 RACE STREET
AMBLER, PA. 19002
DEED BOOK - PAGE
3005-258

OWNER OF RECORD
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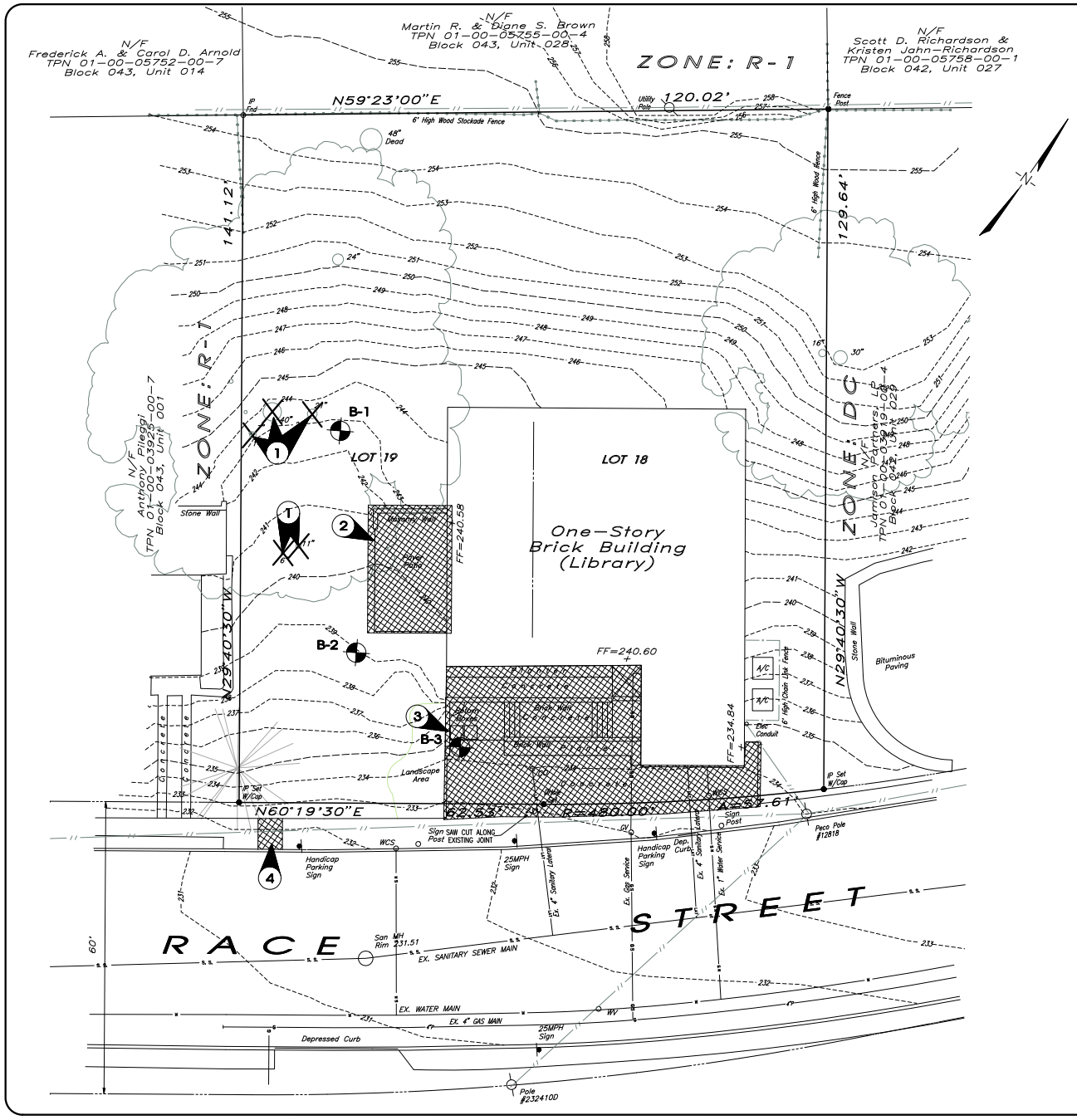
CHARLES E. SHOEMAKER, INC.
ENGINEERS & SURVEYORS
1007 EDGE HILL ROAD ABINGTON, PA. 19001
PHONE: 215-887-2165 FAX: 215-576-7791
E-MAIL: staff@cesshoemaker.com
SCALE 1" = 10'
0' 5' 10' 20' 30'

LAND DEVELOPMENT PLAN of AMBLER LIBRARY

AMBLER BOROUGH, MONTGOMERY COUNTY, PA.

Prepared for
WISSAHICKON VALLEY PUBLIC LIBRARY
1005 MAPLE AVENUE
BLUE BELL, PA. 19422

DATE MARCH 6, 2019
DWG NO. AMBLER-163
JOB NO. 26451
SHEET NO. 2 of 8

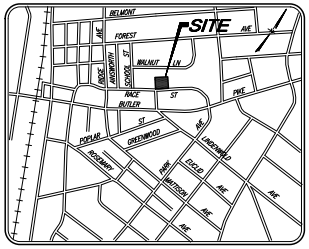


LEGEND

- CONCRETE MONUMENT FOUND
- IRON PIN FOUND
- DRILL HOLE SET
- IRON PIN SET
- 285 EXISTING CONTOUR
- 127 FH EXISTING FIRE HYDRANT
- PE592 EXISTING UTILITY POLE
- GV EXISTING GAS VALVE
- WV EXISTING WATER VALVE
- CO EXISTING SEWER CLEAN OUT
- WCS EXISTING WATER CURB STOP
- SD EXISTING STORM SEWER w/ INLET
- SS EXISTING SANITARY SEWER w/ MANHOLE
- EXISTING OVERHEAD WIRE
- E EXISTING ELECTRIC CONDUIT
- G EXISTING GAS MAIN
- W EXISTING WATER MAIN
- (1) EXISTING FEATURE TO BE DEMOLISHED
- BORING LOCATION

DEMOLITION ITEMS

1. EXISTING TREES TO BE REMOVED
2. EXISTING PATIO AND WALL TO BE REMOVED
3. EXISTING CONCRETE STEPS, WALK, WALLS, PLANTER TO BE REMOVED AND EXISTING BOOK DROP BOXES TO BE RELOCATED
4. SAW CUT EXISTING SIDEWALK ALONG JOINTS AND REMOVE SECTION OF SIDEWALK FOR DRAINAGE PIPE INSTALLATION



LOCATION MAP
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4. Site is designated in Flood Zone X (Areas determined to be outside of 0.2% annual chance floodplain) as shown on Flood Insurance Rate Map of Montgomery County, Community Panel Nos. 42122E 02860, revised March 2, 2016.

811
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SERIAL NO. 20171381197

SITE AREA

AREA TO THE TITLE LINES
16,987 SF or 0.3900 Acres

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
JOHN T. REILLEY
LAND SURVEYOR
RL-070495-E

DATE	NO.	REVISION	BY
4/10/19	1	BOROUGH ENGINEER REVIEW #1	CWB

TAX PARCEL NO.
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E-MAIL: staff@cesshoemaker.com

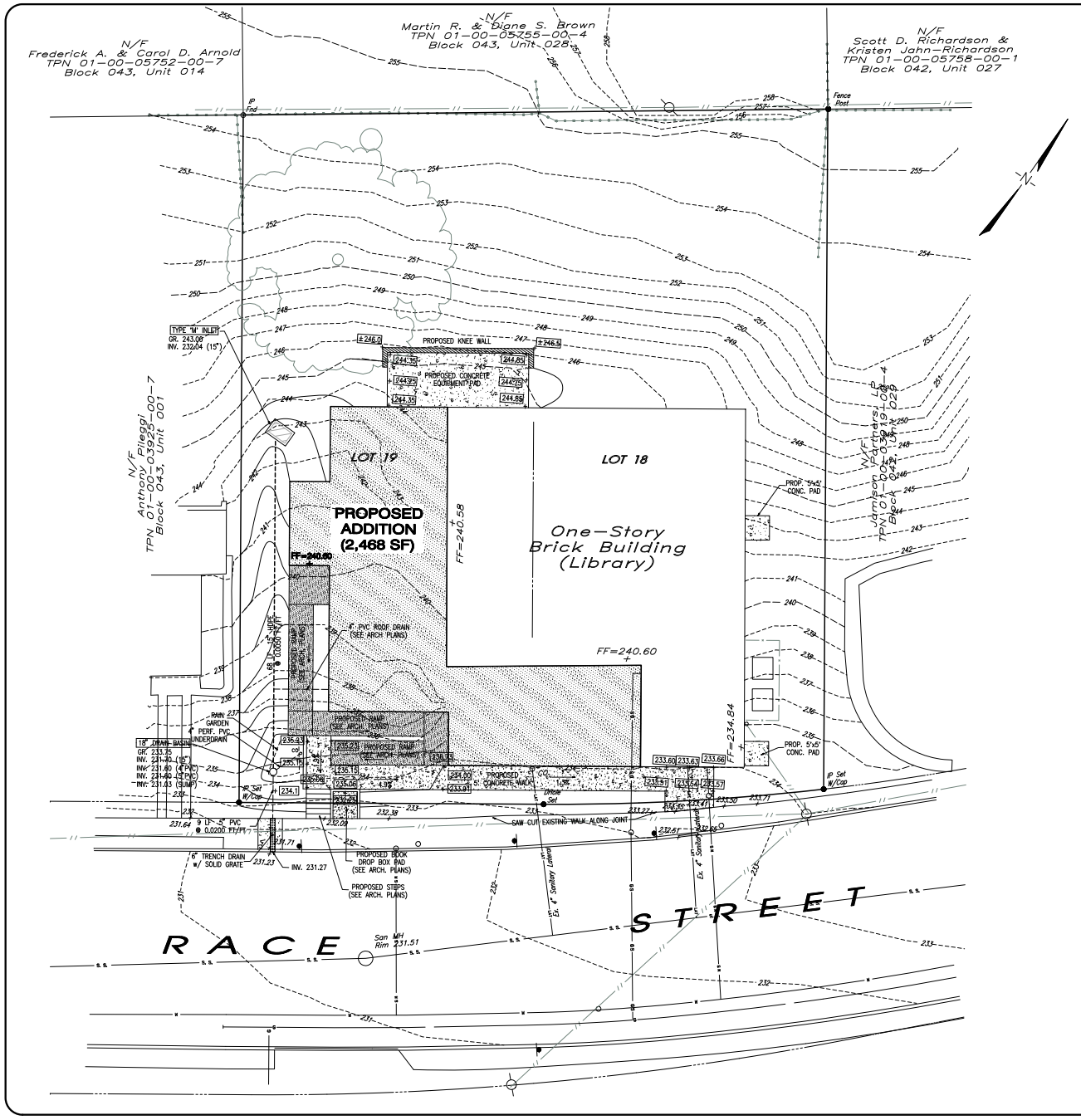
SCALE 1" = 10'
0' 5' 10' 20' 30'

EXISTING FEATURES & DEMO PLAN of AMBLER LIBRARY

AMBLER BOROUGH, MONTGOMERY COUNTY, PA.

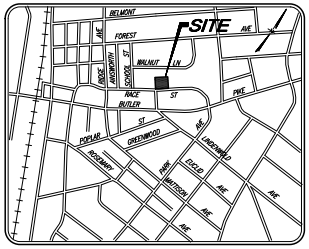
Prepared for
WISSAHICKON VALLEY PUBLIC LIBRARY
400 SCHOOLHOUSE ROAD
BLUE BELL, PA. 19422

DATE	MARCH 6, 2019
DWG NO.	AMBLER-164
JOB NO.	26451
SHEET NO.	3 of 8



LEGEND

	CONCRETE MONUMENT FOUND
	IRON PIN FOUND
	DRILL HOLE SET
	IRON PIN SET
385	EXISTING CONTOUR
+ 385.45	EXISTING SPOT GRADE
FH	EXISTING FIRE HYDRANT
PE592	EXISTING UTILITY POLE
GV	EXISTING GAS VALVE
WV	EXISTING WATER VALVE
CO	EXISTING SEWER CLEAN OUT
WCS	EXISTING WATER CURB STOP
SD	EXISTING STORM SEWER w/ INLET
SS	EXISTING SANITARY SEWER w/ MANHOLE
//	EXISTING OVERHEAD WIRE
E	EXISTING ELECTRIC CONDUIT
G	EXISTING GAS MAIN
W	EXISTING WATER MAIN
385	PROPOSED CONTOUR
+ 385.38	PROPOSED SPOT GRADE
SD	PROPOSED STORM SEWER w/ INLET
LAT	PROPOSED SANITARY LATERAL



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5. All stripped topsoil and excavated trench/foundation spoils should be loaded and trucked offsite per export fill requirements.

811
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SERIAL NO. 20171381197

SITE AREA

AREA TO THE TITLE LINES
16,987 SF or 0.3900 Acres

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD A. STONEBACK
ENGINEER
PE-024415-E

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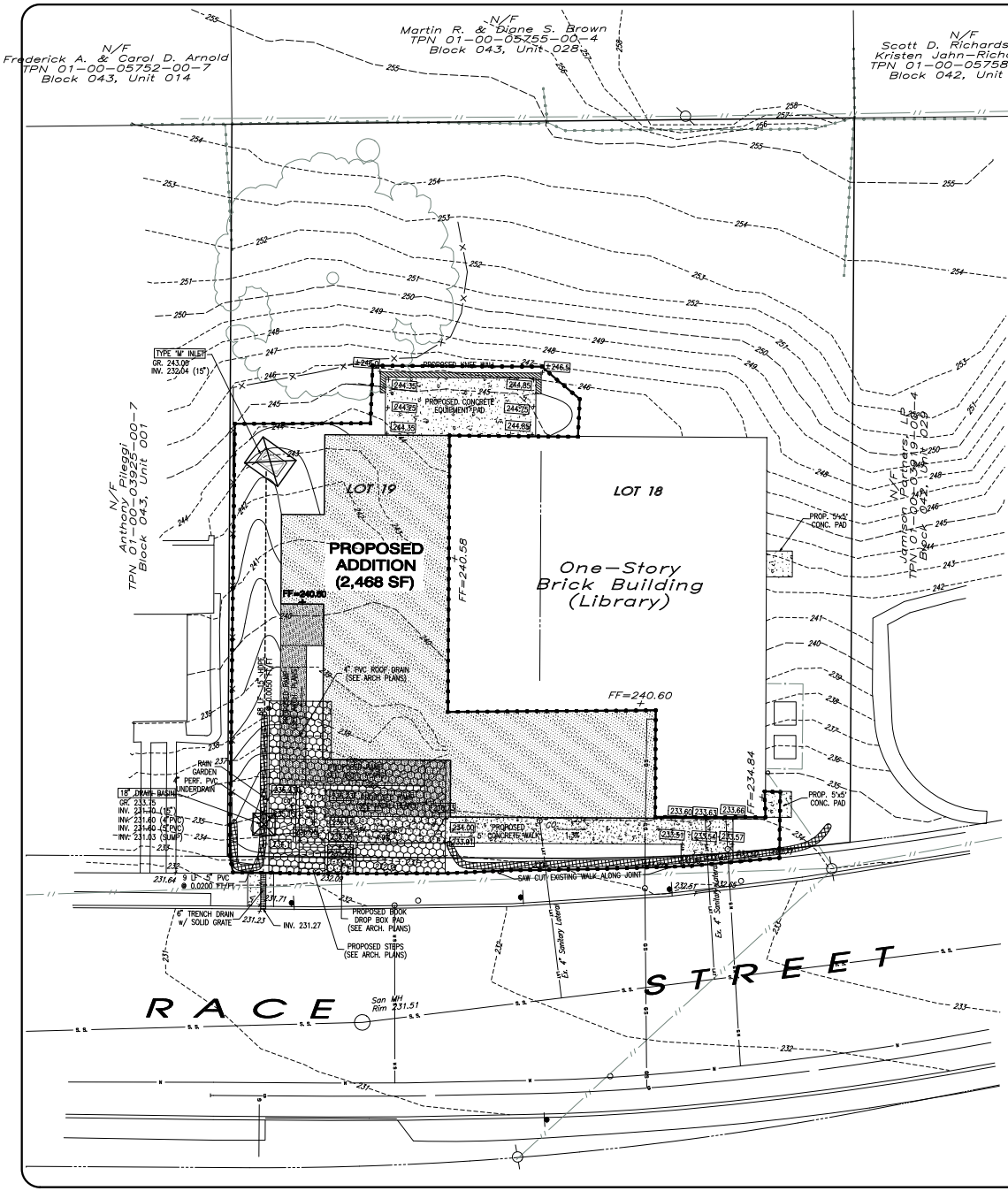
SCALE 1" = 10'
0' 5' 10' 20' 30'

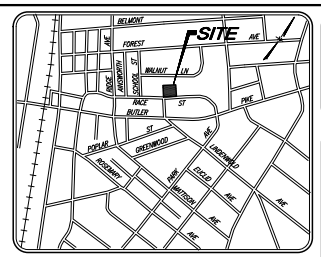
GRADING AND UTILITY PLAN of AMBLER LIBRARY

AMBLER BOROUGH, MONTGOMERY COUNTY, PA.

Prepared for
WISSAHICKON VALLEY PUBLIC LIBRARY
1 Stump Road
BLUE BELL, PA. 19422

DATE
MARCH 6, 2019
DWG NO.
AMBLER-165
JOB NO.
26451
SHEET NO.
4 of 8





LOCATION MAP
SCALE: 1" = 800'

LEGEND

	CONCRETE MONUMENT FOUND
	IRON PIN FOUND
	DRILL HOLE SET
	IRON PIN SET
385	EXISTING CONTOUR
+ 385.15	EXISTING SPOT GRADE
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PE592	EXISTING UTILITY POLE
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WV	EXISTING WATER VALVE
CO	EXISTING SEWER CLEAN OUT
WCS	EXISTING WATER CURB STOP
SD	EXISTING STORM SEWER w/ INLET
SS	EXISTING SANITARY SEWER w/ MANHOLE
//	EXISTING OVERHEAD WIRE
E	EXISTING ELECTRIC CONDUIT
G	EXISTING GAS MAIN
W	EXISTING WATER MAIN
385	PROPOSED CONTOUR
+ 385.36	PROPOSED SPOT GRADE
SD	PROPOSED STORM SEWER w/ INLET
LAT	PROPOSED SANITARY LATERAL
	PROPOSED SILT SOCK
	PROPOSED TREE PROTECTION FENCE
	PROPOSED ROCK CONSTRUCTION ENTRANCE/STAGING AREA
	INLET SEDIMENT PROTECTION
	PROPOSED LIMIT OF DISTURBANCE

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SERIAL NO. 20171381197

SOIL NAME	CUTBANKS CAVE	CORROSIVE TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/ SEASONAL HIGH WATER TABLE	HYDRIC/HYDRIC INCLUSIONS	LOW STRENGTH/ LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
URBAN LAND (UgB, UrnB, UrsD)	X	C/S	X		X	X	X	X	X	X	X	X				X

SOIL LIMITATION RESOLUTIONS

SATURATED ZONE – SOIL STANDARDS AND REGULATIONS MUST BE FOLLOWED AT ALL TIMES TO ENSURE THE SAFETY OF WORKER DURING TRENCHING AND EXCAVATION
CORROSIVE TO CONCRETE/STEEL – SPECIAL SITE EXAMINATION AND DESIGN MAY BE REQUIRED. INSTALL UTILITIES ENTIRELY WITHIN ONE KIND OF SOIL OR SOIL LAYER
DROUGHTY – USE native VEGETATION WHERE POSSIBLE. SUPPLEMENTAL IRRIGATION MAY BE NECESSARY FOR VEGETATION ESTABLISHMENT.
EASILY ERODIBLE – MECHANICALLY COMPACT AREAS OF FILL PLACEMENT. USE SOD OR EROSION CONTROL MATTING IN AREAS OF STEEP SLOPES OR CONCENTRATED FLOWS.
FLOODING – PROTECT FROM FLOODING OR PLACE OUTSIDE THE 100 YEAR FLOODPLAIN. ANCHOR TANKS TO PREVENT FLOTATION.
DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE – STORMWATER MANAGEMENT SYSTEMS AND INFILTRATION AREAS SHOULD BE SITUATED ABOVE THESE LIMITING ZONES. BMPS SHOULD BE DESIGNED WITH A LARGE FOOTPRINT TO INCREASE CONTACT AREA IN SOILS WITH POOR INFILTRATION PROPERTIES.
HYDRIC/HYDRIC INCLUSIONS – STORMWATER MANAGEMENT SYSTEMS AND INFILTRATION AREAS SHOULD BE SITUATED ABOVE LIMITING ZONES. BMPS SHOULD BE DESIGNED WITH A LARGE FOOTPRINT TO INCREASE CONTACT AREA IN SOILS WITH POOR INFILTRATION PROPERTIES.
LOW STRENGTH/ LANDSLIDE PRONE – RECONSTRUCT TO WORK DURING DRIER WINTER MONTHS WHEN SOIL IS NOT SATURATED.
SLOW PERCOLATION – STORMWATER MANAGEMENT SYSTEMS AND INFILTRATION AREAS SHOULD BE SITUATED ABOVE THESE LIMITING ZONES. BMPS SHOULD BE DESIGNED WITH A LARGE FOOTPRINT TO INCREASE CONTACT AREA IN SOILS WITH POOR INFILTRATION PROPERTIES.
PIPING – MECHANICALLY COMPACT AREAS OF FILL PLACEMENT.
POOR SOURCE OF TOPSOIL – SEED, FERTILIZING, AND SOIL PREPARATION FOR ADVERSE CONDITIONS
FROST ACTION – RECONSTRUCT TO WORK DURING DRIER WINTER MONTHS
SHRINK – SWELL – MECHANICALLY COMPACT AREAS OF FILL PLACEMENT. CONSULT GEOTECHNICAL ENGINEER FOR SUITABILITY AND EXCHANGE SOIL IF DEEMED NECESSARY.
POTENTIAL SINKHOLE – STORMWATER MANAGEMENT SYSTEMS AND INFILTRATION FACILITIES SHOULD BE MINIMIZED IN AREAS UNDERLAIN BY LIMESTONE. BMPS SHOULD BE DESIGNED WITH A LARGE FOOTPRINT TO INCREASE CONTACT AREA.
PONDING – POSITIVE STORM DRAINAGE. PUMP ALL SEDIMENT LADEN WATER INTO FILTER BAG OR SEDIMENT TRAP/BASIN.
WETNESS – POSITIVE STORM DRAINAGE. PUMP ALL SEDIMENT LADEN WATER INTO FILTER BAG OR SEDIMENT TRAP/BASIN. STORMWATER MANAGEMENT SYSTEMS AND INFILTRATION AREAS SHOULD BE SITUATED ABOVE THESE LIMITING ZONES.

EROSION CONTROL PLAN OBJECTIVES

MINIMIZE EXTENT & DURATION OF EARTH DISTURBANCE – Because this site was highly developed and already highly impervious, minimization of land clearing and grubbing is very limited. However, new disturbances relating to these improvements will be limited to the greatest extent practical as shown on the plan. The limits of disturbance are delineated on the Erosion Control Plan. Duration of earth disturbance will be limited to the greatest extent possible.

MAXIMIZE PROTECTION OF EXISTING DRAINAGE FEATURES & VEGETATION – Existing drainage patterns will be preserved and utilized. The site drains to the Wissahickon Creek, TSF-MF.

MINIMIZE COMPACTION – Because this site is developed and already highly impervious, soil compaction has already occurred, but new disturbances relating to these proposed improvements will be limited to the greatest extent practical as shown on the plan.

OTHER MEASURES – In the event of unanticipated erosion situations or malfunctioning erosion control devices, the contractor should immediately contact the Borough Engineer, Project Engineer, or Local Conservation District for guidance to address the problem.

THERMAL IMPACTS – Thermal impacts are difficult to quantify, but can be mitigated with design considerations throughout the project. Warm impervious areas are generally the roofs contribute to thermal pollution. During the construction phases of the project, thermal impacts will be minimal due to the lack of heat retaining impervious areas. Thermal impacts will be minimized during construction by the implementation of the erosion control measures. Thermal impacts will be limited during the post-construction phase by the stormwater management system. Thermal impacts are potential for thermal impacts will be mitigated through the use of the stormwater conveyance system which will cool the water through conduction in the process of being discharged towards surface waters.

NOTES

1. Boundary information shown taken from deeds and plans of record, and field surveys performed by Charles E. Shoemaker, Inc. during June, 2017.

   REFERENCE PLANS:
   a) Plan of Lots, Hart Tract, prepared by C. Raymond Weir, Registered Surveyor, Ambler Borough, dated February 19, 1938 and last revised November 29, 1938 & June 6, 1949 and further revised March 22, 1955.
   b) Plan of Property prepeared for I. Ely Hough dated April 5, 1949 by C. Raymond Weir, P.E.

2. Topographic information shown taken from field survey performed by Charles E. Shoemaker, Inc. during June, 2017. Datum based on NGVD 1988.

3. Existing underground utility locations were plotted from utility company plans supplied to us in accordance with PA ONE CALL (2008) or by physical survey locations. All underground utility locations are approximate only. Contractors are required by PA ONE CALL to verify the exact locations of all underground utilities prior to commencing excavation activities.
   Pennsylvania One Call Systems, Inc., phone No. 1-800-242-1776.

4. Site is designated in Flood Zone X (Areas determined to be outside of 0.2% annual chance floodplain) as shown on Flood Insurance Rate Map of Montgomery County, Community Panel Nos. 42125F0 0260, revised March 2, 2016.

5. All site soils are designated as UrnD, Urban Land-Penn Complex, 8 to 25% slopes as mapped on USDA-NRCS Web Soil Survey of Montgomery County, accessed on Dec. 5, 2018.

6. All stripped topsoil and excavated trench/foundation spoils should be loaded and trucked offsite per export fill requirements.

AREA OF DISTURBANCE = 5,500 SF

AREA OF DISTURBANCE = 0.13 AC.

SITE DRAINS TO THE WISSAHICKON CREEK
CHAPTER 93 STORMWATER CLASSIFICATION – TSF, MF

SITE AREA

AREA TO THE TITLE LINES
16,987 SF or 0.3900 Acres

EROSION CONTROL MAINTENANCE PROCEDURES

Silt Fences:
1. The fence installation should be inspected after every precipitation event and on a weekly basis. Any necessary repairs will be made immediately.
2. Accumulated sediments will be removed as required to keep the fence functional. In all cases, remove deposits where accumulation reaches 1/2 the above ground height of the fence.
3. All undercutting or erosion of the toe anchor will be repaired immediately with compacted backfill materials.
4. Adhere to any manufacturers recommendations for replacing filter fabric fence due to weathering.

Silt Socks:
1. The fence installation should be inspected after every precipitation event and on a weekly basis. Any necessary repairs will be made immediately.
2. Accumulated sediments will be removed as required to keep the fence functional. In all cases, remove deposits where accumulation reaches 1/3 the above ground height of the fence.
3. All undercutting or erosion of the toe anchor will be repaired immediately with compacted backfill materials.
4. Adhere to any manufacturers recommendations for replacing filter fabric fence due to weathering.

Rock Construction Entrances:
The structure's thickness will be constantly maintained to the specific dimension by adding rock. A stockpile of rock materials will be maintained on the site for this purpose. At the end of each construction day, all sediment deposited on public roadways, will be removed and returned to the construction site. Washing of the trucks within the roadway is not permitted.

Silt Fence Rock Filters:
Rock filters will be removed when clogged with sediments. Materials must be washed completely free of all foreign materials or new rock used to rebuild the filter.

Rock Filters:
Rock filters will be removed when clogged with sediments. Materials must be washed completely free of all foreign materials or new rock used to rebuild the filter.

Temporary Inlet Protection:
Sediment will be removed from the trap after each storm event.

CHARLES E. SHOEMAKER, INC.
ENGINEERS & SURVEYORS
1007 EDGE HILL ROAD ABINGTON, PA. 19001
PHONE: 215-887-2165 FAX: 215-576-7791
E-MAIL: staff@cesshoemaker.com

SCALE 1" = 10'
0' 5' 10' 20' 30'

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD A. STONEBACK
ENGINEER
PE-024615-E

DATE	NO.	REVISION	BY
4/10/19	1	BOROUGH ENGINEER REVIEW #1	CWB

TAX PARCEL NO.
01-00-03922-00-1
BLOCK / UNIT
043 / 001
SITE ADDRESS
209 RACE STREET
AMBLER, PA. 19002
DEED BOOK – PAGE
3055-258

OWNER OF RECORD
AMBLER PUBLIC LIBRARY
209 RACE STREET
AMBLER, PA. 19002

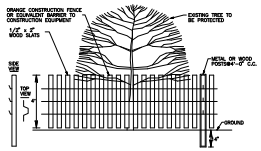
EROSION CONTROL PLAN of AMBLER LIBRARY

AMBLER BOROUGH, MONTGOMERY COUNTY, PA.

Prepared for

WISSAHICKON VALLEY PUBLIC LIBRARY
209 RACE STREET
BLUE BELL, PA. 19422

DATE	MARCH 6, 2019
DWG NO.	AMBLER-166
JOB NO.	26451
SHEET NO.	5 of 8

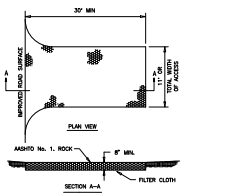


NOTES:

1. Tree protection fence should be installed at least one (1) foot outside the dripline of the tree, where possible.

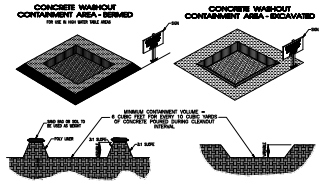
TREE PROTECTION FENCE DETAIL

NTS



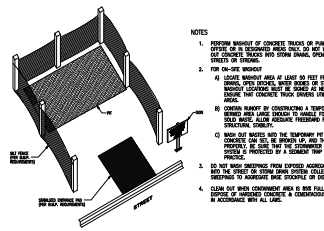
ROCK CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

ROCK CONSTRUCTION ENTRANCE

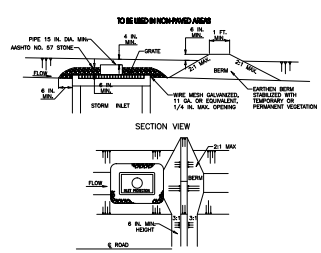


NOTES

1. PERFORM BAGHOUT OF CONCRETE TRUCKS OR PUMPS OUT ONTO DESIGNATED AREAS ONLY. DO NOT WASH OUT CHUTES OR BRANCHES INTO STORM DRAINS, OPEN DITCHES, STREETS OR STREAMS.
2. FOR ON-SITE WASHOUT
   A) LOCATE WASHOUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, WATER BODIES OR WETLANDS. DO NOT ALLOW WASHOUT TO DRAIN OR BURIED AS WASTE. ENSURE THAT CONCRETE TRUCK DRIVERS UTILIZE PROPER AREAS.
   B) CONTAIN RUNOFF BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH TO HANDLE FOR LIQUID AND SOLID WASTE. ALLOW ADEQUATE FREEBOARD FOR STRUCTURAL STABILITY.
   C) WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED OF PROPERLY. ENSURE THAT THE TEMPORARY PIT OR BERMED AREA IS PROTECTED BY A SUBMERSIBLE PUMP OR SIMILAR PRACTICE.
3. DO NOT WASH SWEPTINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN SYSTEM. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BINS. STOCKPILE OR DISPOSE AS WASTE.
4. CLEAN OUT WHEN CONTAINMENT AREA IS 50% FULL TO CAPACITY. DISPOSE OF HARDENED CONCRETE & CEMENTACEOUS WASTE IN ACCORDANCE WITH ALL LAWS.



CONCRETE WASHOUT AREA



NOTES:

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

ROLLED EARTHEN BERM IN ROADWAY SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS REPAVED. ROLLED EARTHEN BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR TO REMAIN PERMANENT.

STONE INLET PROTECTION AND BERM FOR A TYPE M INLET CAN BE USED IN ONE ACRE MAXIMUM DRAINAGE AREA WITH 15 IN. DIAMETER PIPE AND 6 IN. HEAD. A PERFORATED PLATE WELDED TO A METAL RISER MAY NOT BE SUBSTITUTED FOR THE WIRE MESH. A SLOTTED PLATE WELDED TO THE RISER MAY BE USED IN COMBINATION WITH THE WIRE MESH. THE WIRE MESH SHALL BE FASTENED SECURELY TO THE RISER AND TO THE TOP BAR OF THE GRATE. THE TOP OF THE BERM SHALL BE A CLEAN STONE LINED FROM A SUBSURFACE DRAINAGE AREA. TOP OF BERM TO ADJACENT ROAD AT LEAST 6 INCHES BELOW ADJACENT ROADWAY IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC. EARTHEN BERM SHALL BE ROLLED.

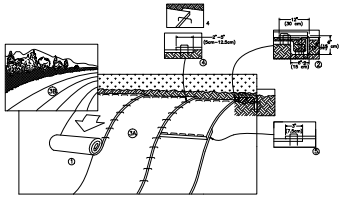
SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO INLETS OR TO SURFACE WATER, A 6 IN. THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE. COMPOST SHALL MEET THE STANDARDS IN TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-20
STONE INLET PROTECTION AND BERM - TYPE M INLET

NOT TO SCALE



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL WHEN PROPERLY PLACED. CHECK THE PRODUCT TO ENSURE THE NETTING WILL NOT BECOME SKEWED ON THE SLOPE IN APPROPRIATE LOCATIONS AS SHOWN IN THE SITE SPECIFIC PLAN. WHEN USING OPTIONAL OFF SETS, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-4" (5cm-12cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END-OVER-END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

NORTH AMERICAN GREEN
14649 HIGHWAY 41 NORTH, EVANSVILLE, INDIANA 47725
USA 1-800-772-3040 CANADA 1-800-448-3040
www.nagreen.com

SLOPE INSTALLATION

STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES

1. The operator shall assure that the approved erosion and sediment control plan is properly and adequately implemented.
2. Until the site achieves final stabilization, the Permittee and Copermittee shall assure that the best management practices are implemented, operated, and maintained properly and completely. Maintenance shall include inspections of all best management practice facilities and maintain and make available to the Montgomery County Conservation District complete, written inspection logs of all those inspections. All maintenance work, including cleaning, repair, replacement, regrading, reseeding, and restabilization shall be performed immediately.
3. Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate potential for accelerated erosion and/or sediment pollution.
4. Before initiating any revisions to the approved erosion and sediment control plan or revisions to other plans which may affect the effectiveness of the approved E&S control plan, the operator must receive approval of the revisions from the Montgomery County Conservation District.
5. The operator shall assure that an erosion and sediment control plan has been prepared, approved by the appropriate conservation district, and fully implemented and maintained for all soil and/or rock spoil and borrow areas, regardless of their location.
6. All pumping of sediment laden water shall be through a sediment control BMP, such as a pumped water filter bag discharging over non-disturbed areas.
7. The contractor is advised to become thoroughly familiar with the provisions of the Appendix E&, Erosion Control Rules and Regulations, Title 25, Part 1, Department of Environmental Protection, Subpart C, Protection of Natural Resources, Article III, Water Resources, Chapter 102, Erosion Control.
8. A copy of the approved erosion and sediment control plan must be available at the project site at all times.
9. Erosion and sediment BMP's must be constructed, stabilized, and functional before site disturbance begins within the tributary area of those BMP's.
10. After final site stabilization has been achieved, temporary erosion and sediment BMP controls must be removed. Areas disturbed during removal of the BMP's must be stabilized immediately.
11. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE.
12. Immediately after earth disturbance activities cease, the operator shall stabilize any areas disturbed by the activities. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished grade and which will be redisturbed within one year must be stabilized in accordance with the temporary vegetative stabilization specifications. Disturbed areas which are at finished grade or which will not be redisturbed within one year must be stabilized in accordance with the permanent vegetative stabilization specifications.
13. An area shall be considered to have achieved final stabilization when it has 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.

Other BMP's

14. Sediment must be removed from storm water inlet protection after each runoff event.

Temporary Stabilization and Permanent Stabilization

15. Until the site is stabilized, all erosion and sediment BMP's must be maintained properly. Maintenance must include inspections of all erosion and sediment control BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching, and renetting, must be done immediately. If erosion and sediment control BMPs fail to perform as expected, replacement BMP's, or modifications of those installed will be required.
16. Sediment removed from BMP's shall be disposed of in landscape areas outside of steep slopes, wetlands, floodplains or drainage swales and immediately stabilized, or placed in topsoil stockpiles.
17. The operator shall remove from this site, recycle, or dispose of all building materials and wastes in accordance with applicable municipal, county, state and federal regulations including but not limited to sec. 271.1 et seq. The contractor shall not illegally bury, dump, or discharge any building material or wastes at this site.
18. An E&S plan shall be submitted to the Conservation District or authorized conservation district and implemented for all spoil and borrow areas, regardless of their location.

Other Issues

19. The project's receiving watercourse is Wissahickon Creek, and the Chapter 93 classification is TSF-MF.
20. The owner is responsible for the long term "operation and maintenance" of the BMP's.
21. Upon completion or temporary cessation of the earth disturbance activity, the project site shall be permanently stabilized in accordance with the requirements of Chapter 102 of the Erosion and Sediment Pollution Control Manual (E&S Manual), Commonwealth of Pennsylvania, Department of Environmental Protection No. 363-2134-008, March 2012, as ammended and updated. Erosion and Sediment Control BMPs shall be implemented and maintained until permanent stabilization is completed and PCSM BMPs are operational.
22. If the site will need to import or export material from the site, the responsibility for performing "Environmental Due Diligence' and determination of "Clean Fill" will rest with contractor.

    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 re-use).

    Clean Fill affected by a spill or release of a regulated substance: Fill materials affected by a spill or release of a regulated substance still qualifies as clean fill provided the testing reveals that the fill material contains concentrations of regulated substances that are below the residential limits in Tables FP-1a and FP-1b found in the Department's policy "Management of Fill".

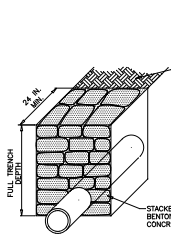
    Any person placing clean fill that has been affected by a spill or release of a regulated substance must use form FP-001 to certify the origin of the fill material and the results of the analytical testing to qualify the material as clean fill. Form FP-001 must be retained by the owner of the property receiving the fill. A copy of Form FP-001 can be found at the end of these instructions.

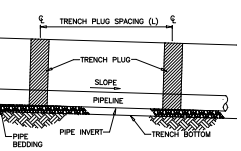
    Environmental Due Diligence: The applicant must perform Environmental Due Diligence to determine if the fill materials associated with the project qualify as Clean Fill. Environmental Due Diligence is defined as: investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction screens, and laboratory testing. Environmental measures are also AnalytiCal testing when the required part 1 Due Diligence includes 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".

    Fill material that does not qualify as Clean Fill is Regulated Fill. Regulated Fill is waste and must be managed in accordance with the Department's municipal or residual waste regulations based on 25 Pa. Code Chapters 287 Residual Waste Management or 271 Municipal Waste Management, whichever is applicable. These regulations are available on-line at www.pacode.com.

UTILITY LINE TRENCH EXCAVATION NOTES

1. Limit advanced clearing and grubbing operations to a distance equal to two times the length of pipe installation that can be completed in one day.
2. Work crews and equipment for trenching, placement of pipe, plug construction and backfilling all be self contained and separate from clearing and grubbing and site restoration and stabilization operations.
3. All soil excavated from the trench sill be placed on the uphill side of the trench.
4. Limit daily trench excavation to the length of pipe placement, plug installation and backfilling that can be completed the same day.
5. Water which accumulates in the open trench sill be completely removed by pumping before pipe placement and/or backfilling begins. Water removed from the trench shall be pumped through a filtration device.
6. On the day following pipe placement and trench backfilling, the disturbed area sill be graded to final contours and immediately stabilized.





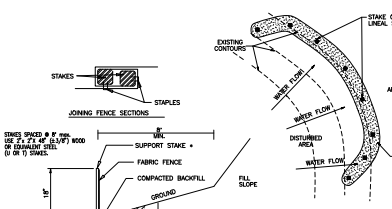
PA DEP EROSION CONTROL MANUAL TABLE 13.1 MAXIMUM SPACING AND MATERIALS FOR TRENCH PLUGS		
TRENCH SLOPE (%)	SPACING L (FT)	PLUG MATERIAL
< 5	1000	• CLAY, BENTONITE, OR CONCRETE FILLED SACKS
5 - 15	500	• CLAY, BENTONITE, OR CONCRETE FILLED SACKS
15 - 25	300	• CLAY, BENTONITE, OR CONCRETE FILLED SACKS
25 - 35	200	• CLAY, BENTONITE, OR CONCRETE FILLED SACKS
35 - 100	100	• CLAY, BENTONITE, OR CONCRETE FILLED SACKS
> 100	50	CEMENT BAGS (WETTED) OR MORTARED STONE
• TOPSOIL MAY NOT BE USED TO FILL SACKS		

NOTES:

IMPERVIOUS TRENCH PLUGS ARE REQUIRED FOR ALL STREAM, RIVER, WETLAND, OR OTHER WATER BODY CROSSINGS.

STANDARD CONSTRUCTION DETAIL #13-4
TRENCH PLUG INSTALLATION

NOT TO SCALE



NOTES:

Fabric shall have the minimum properties as shown in Table 4.3.

Fabric width shall be 30" minimum. Stakes shall be hardwood or equivalent steel (U or T) stakes.

28 fence shall be installed at existing level grade. Both ends of each fence section shall be extended at least 8 feet upslope at 45 degrees to the main fence alignment (Figure 4.1).

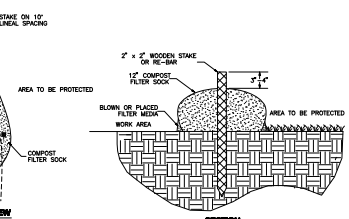
Sediment shall be removed where accumulations reach half the aboveground height of the fence.

Any section of silt fence which has been undermined or topped shall be immediately replaced with a rock filter outlet (Standard Construction Detail # 4-4).

Fence shall be removed and properly disposed of when tributary area is permanently stabilized.

STANDARD FILTER FABRIC FENCE (18")

NTS

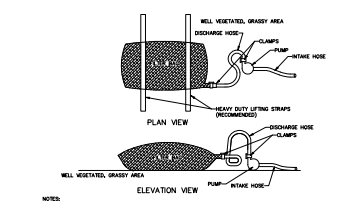


NOTES:

1. Sock fabric shall meet standards of Table 4.1 (363-2134-008/March 31, 2012/Page 63). Compost shall mee the standards of Table 4.2 (363-2134-008/March 31, 2012/Page 64).
2. Compost filter sock shall be placed at existing level grade. Both ends of the sock shall be extended at least 8 feet up slope at 45 degrees to the main sock alignment as shown on detail. Maximum slope length above any sock shall not exceed that shown on Figure 4.2 (363-2134-008/March 31, 2012/Page 66). Stakes may be installed immediately downslope of the sock if so specified by the manufacturer.
3. Traffic shall not be permitted to cross filter socks.
4. Accumulated sediment shall be removed when it reaches half the aboveground height of the sock and disposed of in a manner described elsewhere in the plan.
4. Socks shall be inspected weekly and after each runoff event. Damaged socks shall be repaired according to the manufacturer's specifications of replaced within 24 hours of inspection.
5. Biodegradable filter socks shall be replaced after 6 months; photodegradable socks after 1 year. Polypropylene socks shall be replaced according to manufacturer's recommendations.
6. Upon stabilization of the area tributary to the sock, stakes should 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.

COMPOST FILTER SOCK DETAIL

N.T.S.



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 100 MICRONS. LOW 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	390 PSI
UV RESISTANCE	ASTM D-4355	90%
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 BAGS 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, OR EFFECTIVE DISPERSAL AND FLOW PATH SHALL BE ESTABLISHED BY PLACING BAGS ON A BED OF STONE. BAGS SHOULD NOT BE PLACED ON SLOPES. BAGS MUST BE PLACED ON GENTLE GRADES OR ON THE SLOPE TO PROVIDE AN CLEAN ROOM OR OTHER NON-WOVEN, SPUNBOND 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.

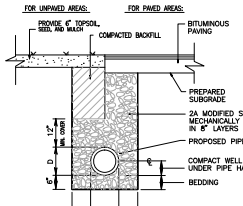
THE PUMP DISCHARGE HOSE SHALL BE DIGERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

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



TRENCH BACKFILL DETAIL

(Non-PennDOT)
NTS

GENERAL NOTES:

Whenever earthmoving activities are proposed, proper erosion control measures and staging of construction must be followed to minimize the effects of earth disturbance. The following outline is a guide to the installation and removal of erosion control facilities.

CONSTRUCTION SEQUENCE:

1. Install silt sock and orange construction fence to protect existing trees to remain from construction equipment and soil compaction.
2. Install remaining erosion control facilities including rock construction enterance.
3. Remove existing trees and saw cut and remove existing concrete walks as shown on demolition plan.
4. Excavate for foundation and begin building addition and ADA ramps.
5. Install stormwater collection system and grade proposed rain gardens.
6. Construct concrete walks.
7. Finish grade disturbed areas, install erosion control blanket on all 3:1 or greater slopes, seed or sod all exposed areas and install amended soil in rain garden and landscaping throughout.
8. After vegetative areas have stabilized, remove all remaining erosion control facilities.

All erosion and sedimentation controls including rock construction entrances, inlet sediment barriers and silt fence, etc. must be installed, stabilized, and functional prior to general site disturbance within the tributary area of these controls. Each step pertaining to the erosion control construction will be completed before the next step begins.
Erosion control measures included in this plan shall be maintained so that they individually and collectively perform the functions for which they were designed. Weekly inspections shall be made to determine the maintenance needs and after all runoff events. Sediment shall not be permitted to accumulate to a depth sufficient to eliminate the effectiveness of the proposed structure. All slopes or other disturbed areas shall be stabilized with permanent vegetation at the earliest possible date. Watering, mowing, and fertilizing programs shall be maintained until hardy vegetation is established.

The permitee will be responsible for the proper construction, stabilization, and maintenance of all temporary and permanent erosion controls.
Final grade and apply permanent seeding and mulch until proper vegetative cover is established. Final stabilization occurs when disturbed areas have a minimum uniform 70% perennial vegetative cover. Once proper vegetative cover is established, remove silt fence and inlet protection devices.
Until the site is stabilized, all erosion and sediment Best Management Practices (BMPs) must be maintained properly. Maintenance must include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, remulching and renetting 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.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS, REQUIREMENTS AND SPECIFICATIONS OF AMBLER BOROUGH.

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
RICHARD A. STONEBACK
ENGINEER
PE-024615-E

REVISION	BY	DATE
1 BOROUGH ENGINEER REVIEW #1	CWB	4/10/19
NO.		

CHARLES E. SHOEMAKER, INC.
ENGINEERS & SURVEYORS
1007 EDGE HILL ROAD ABINGTON, PA. 19001
PHONE: 215-887-2165 FAX: 215-576-7791
E-MAIL: staff@cesshoemaker.com

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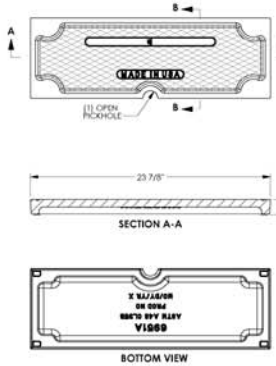
CONSTRUCTION DETAILS PLAN of AMBLER LIBRARY

AMBLER BOROUGH, MONTGOMERY COUNTY, PA.

Prepared for
WISSAHICKON VALLEY PUBLIC LIBRARY
BLUE BELL, PA. 19422

DATE MARCH 6, 2019
DWG NO. AMBLER-167
JOB NO. 26451
SHEET NO. 6 of 8

6951A Trench Cover



ej

Product Number
00691121

Design Features
-Materials
Gray Iron (CL35B)
-Design Load
Heavy Duty
-Open Area
n/a
-Coating
Uncoated
-√ Designates Machined Surface

Certification
-ASTM A48
-
-Country of Origin: USA

Drawing Revision
3/31/2011 - Designer: GBB
11/19/2015 Revised By: DAE

Disclaimer
Products drawing, information and specifications are based on standard or typical conditions. We reserve the right to modify specifications without prior notice.

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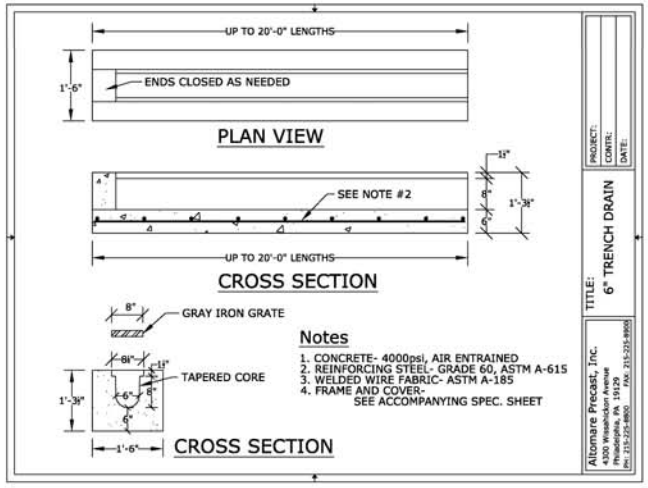
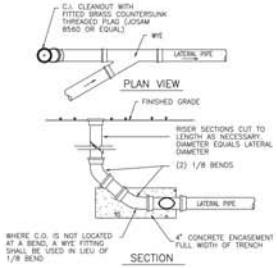
Contact
800 626 4653
800 1609



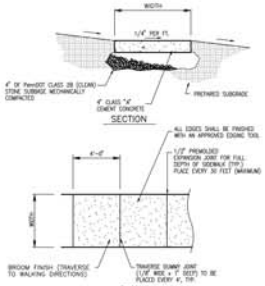
Notes

1. CONCRETE- 4000psi, AIR ENTRAINED
2. REINFORCING STEEL- GRADE 60, ASTM A-615
3. WELDED WIRE FABRIC- ASTM A-185
4. FRAME AND COVER-
   SEE ACCOMPANYING SPEC. SHEET



SANITARY SEWER CLEANOUT DETAIL

N.T.S.

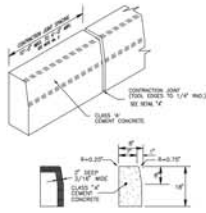


NOTES:

1. 1/2" PREMOLDED EXPANSION JOINTS TO BE PLACED EVERY 24 FEET (OR 25 FEET (MAXIMUM) WHERE SIDEWALKS ARE REQUIRED TO BE 5 FEET WIDE, AND AT ALL LOCATIONS WHERE EXISTING PAVEMENT OR SIDEWALK MEETS PROPOSED SIDEWALK, WHERE SIDEWALK ABUTS CURB OR OTHER SIMILAR STRUCTURES, AND WHERE SIDEWALK TRANSITIONS FROM 4" THICK TO 6" THICK (DRIVEWAYS APRONS, ECT.)
2. WITH ALL PROPOSED SIDEWALK A NON-SLIP SURFACE TEXTURE SHALL BE BROOMED TRAVERSE TO THE SLOPE OF THE SIDEWALK.
3. CONCRETE SIDEWALK SHALL BE PROPERLY CURED WITH WHITE CURING COMPOUND AS SPECIFIED BY THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FORM 408.
4. SIDEWALKS THAT ARE PART OF THE DRIVEWAY APRON SHALL BE 6" THICK AND REQUIRE WIRE REINFORCEMENT (SEE APRON DETAIL).
5. MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF PUBLICATION 408, SECTION 676 FOR PLAIN CEMENT SIDEWALKS, SECTION 640 FOR ALL PLAIN CONCRETE CONCRETE CURB GUTTER, AND SECTION 694 FOR CONCRETE CURB CUT RAMPS.

CONCRETE SIDEWALK DETAIL

N.T.S.

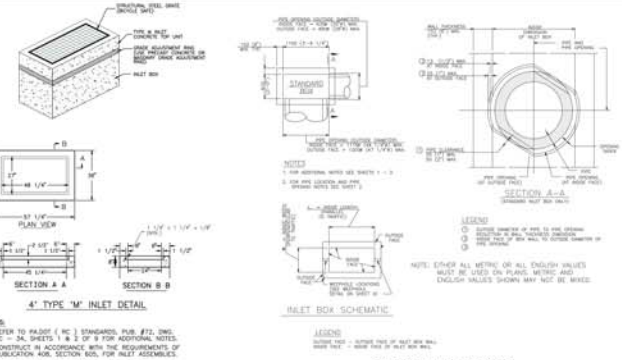


NOTES:

1. Materials and construction shall meet the requirements of Publication 408, Section 630 for plain cement concrete curb and depressed curb, Section 640 for all plain cement concrete curb gutter, and Section 694 for concrete curb cut ramps.
2. Space contraction joints in uniform lengths or section.
3. Provide 3/4" wide premolded expansion joint material wherever concrete sidewalk abuts any rigid pavement, sidewalk, or structure every 50 feet (Max.) with the top of joint filler flush with adjacent concrete surface.
4. Curb cut ramp dimensions and slopes should be adhered to unless existing conditions require special design based on roadway grades.
5. Provide slip resistant texture on curb cut ramp by coarse broming traverse to the slope of the ramp. Extend texture the full width and length of the curb cut ramp including flared side ramps.
6. Seal joints with an approved sealing material in accordance with Publication 408.
7. Curbs shall be formed front and back to full depth.
8. All curb shall be poured separate of the sidewalk.
9. All curb when poured, shall have an expansion joint between the curb and sidewalk.

PLAIN CEMENT CONCRETE CURB

N.T.S.



4' TYPE 'M' INLET DETAIL

NOTES:

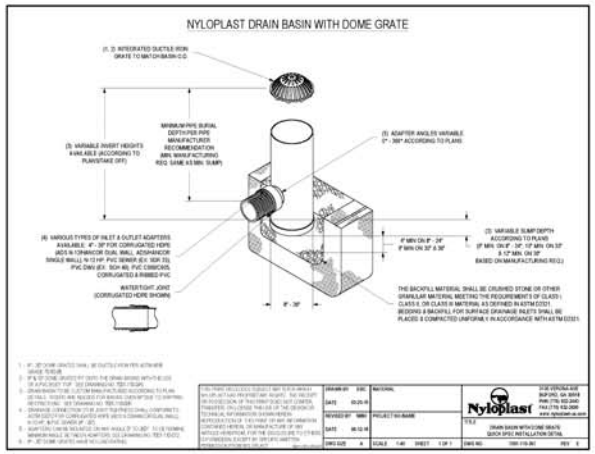
1. REFER TO PA.DOT (RC) STANDARDS, PUB. #72, DWG. RC – 34, SHEETS 1 & 2 OF 9 FOR ADDITIONAL NOTES.
2. CONSTRUCT IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 605, FOR INLET ASSEMBLIES.

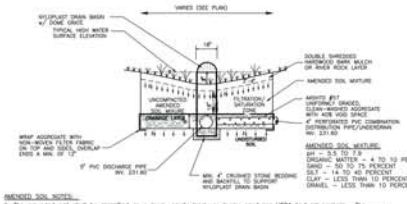
TYPICAL TYPE 'M' INLET DETAILS

NTS

PRECAST INLET BOXES

N.T.S.



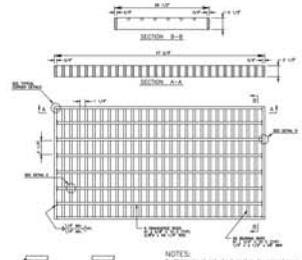


AMENDED SOIL NOTES:

1. The amended soil shall be classified as a loam, sandy loam, or loamy sand per USDA textural analysis. The amended soil shall be free to stones, stumps, roots, or other woody material over 3" in diameter. Brush or weeds from noxious weeds shall not be present in the soil. Placement of the amended soil shall be in lifts of 12" to 18", loosely compacted.
2. In order to achieve optimal organic matter content, composts, mulches, manures, and/or mushroom soils may be added to the amended soil mixture. Composts utilized in the amended soil mixture shall have been produced per CFR 503 regulations, where applicable.
3. The amended soil material shall be at an optimal moisture content prior to installation in any proposed facility in order to provide a uniform mixture.
4. The gravel portion of the amended soil mixture shall be below 10 percent, all of which shall be less than 3" in size.
5. If sand is added to the amended soil mixture to raise the sand content, the sand shall meet ASTM C-33 (washed concrete sand with 2-4% fines) requirements. Screenings are not to be used.

RAIN GARDEN

NOT TO SCALE



NOTES:

1. Bars structural steel grates in accordance with the requirements of Publication 408, Section 715(b)(3).
2. Provide transverse bars, meeting the requirements of Publication 408.
3. Provide bicycle-safe, structural steel or cast iron grates at all locations where bicycle traffic is anticipated, such as curbed roadways in urban areas or roadways specifically established and signed as bikeways or hiking bike lanes. Alternate bicycle-safe grate designs shall require a shop drawing submission and approval. Grates shall conform to the dimensional requirements for proper installation with the current concrete top units.
4. Fabricate slots by burning, drilling, shearing or punching. Have the bottom of 28 burned or drilled slots conform to the shape of the rod.
5. Provide structural steel grates with the grate spaces located flush along the top surface of the grate.

NOTE:
ALL INLETS IN CARTWAYS OR WHERE BICYCLE TRAFFIC IS ANTICIPATED ARE TO HAVE BICYCLE SAFE GRATES INSTALLED.

STRUCTURAL STEEL BICYCLE SAFE GRATE

NTS

RICHARD A. STONEBACK
REGISTERED PROFESSIONAL
COMMONWEALTH OF PENNSYLVANIA

DATE	NO.	REVISION	BY
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CONSTRUCTION DETAILS PLAN
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AMBLER BOROUGH, MONTGOMERY COUNTY, PA.
Prepared for
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DATE: MARCH 6, 2019
DWG NO. AMBLER-168
JOB NO. 26451
SHEET NO. 7 of 8

SHEET NO. 8 OF 8	JOB NO. 26451	DWG NAMBLER - 169	DATE MARCH 6, 2019

AERIAL PHOTO EXHIBIT
OF
AMBLER LIBRARY
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PREPARED FOR
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DATE	NO.	REVISION	BY
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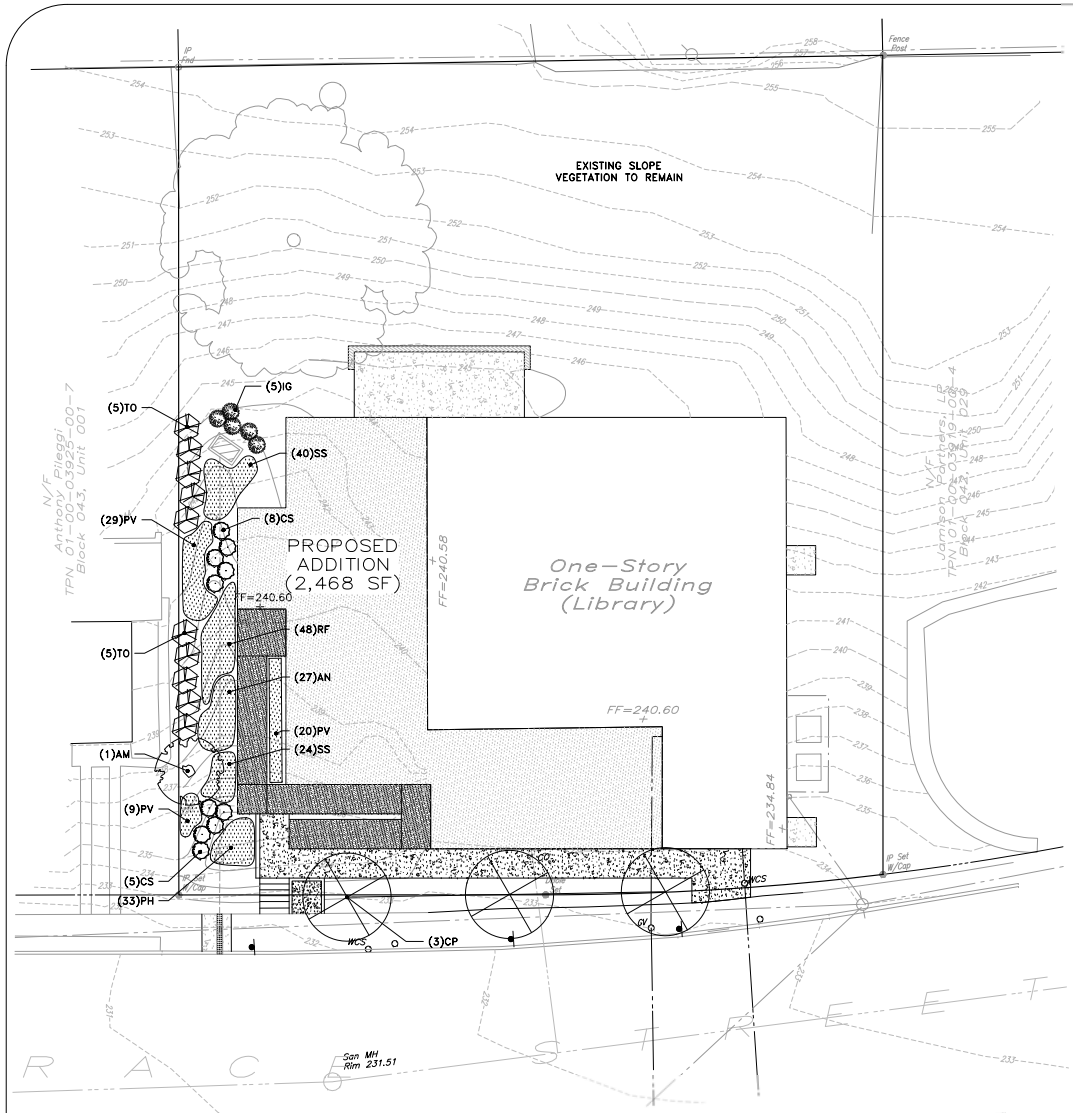
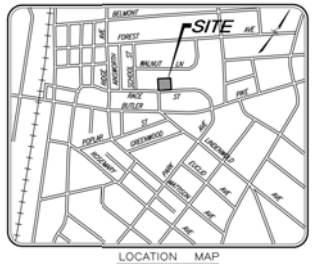


LANDSCAPE REQUIREMENTS CHART - BOROUGH OF AMBLER

Subdivision Ordinance Item	Requirement	Plan Proposed
S.O. Appendix B 100.3 Street Trees	Street trees shall be required along all existing streets when they abut or lie within the proposed subdivision or land development. Street trees shall be between the legal right-of-way and the building setback line. Trees shall be planted a minimum distance of 5 feet and a maximum distance of 15 feet from the legal right-of-way. Trees shall be planted a minimum distance of 3 feet from curbs and sidewalks, 15 feet from overhead utilities and 6 feet from underground utilities. Trees shall be planted at a ratio of at least one tree per 40 linear feet. Race Street: 120' 120/40 = 3 Trees	[waiver] 3 Shade Trees
S.O. Appendix B 100.4 Buffers & Screens	Property line buffers to contain one canopy tree and 2 ornamental trees per 100 linear feet. One evergreen tree may be substituted for one of the required ornamental trees. Western Property Line: 140' 140/100 = 2 Canopy Trees (140/100) x 2 = 3 Ornamental Trees Northern Property Line: 120' 120/100 = 2 Canopy Trees (120/100) x 2 = 3 Ornamental Trees Eastern Property Line: 140' No development along Eastern Property Line	Existing trees to remain 1 Ornamental Trees 10 Evergreen Trees 15 Shrubs 230 Perennials Existing trees to remain Existing trees to remain
S.O. Appendix B 100.4A Additional Buffering & Screening Requirements for Nonresidential Properties Abutting Parcels in the R-1 District	Buffer shall be 15 feet wide in total and shall consist of a 6' tall fence made of wood or simulated wood. Evergreen shall be planted along the inside of the fence, be at least 6' in height (reach mature height of at least 12' ht.), planted 5' apart. Western Property Line Northern Property Line	see buffer plantings above [waiver from fencing] see buffer plantings above [waiver from fencing]
	Total Landscape Proposed	**3 Shade Trees** **10 Evergreen Trees** **1 Flowering Trees** **15 Shrubs** **230 Perennials**



LOCATION MAP
SCALE: 1" = 800'

LEGEND

- CONCRETE MONUMENT FOUND
- IRON PIN FOUND
- DRILL HOLE SET
- IRON PIN SET
- EXISTING CONTOUR
- EXISTING SPOT GRADE
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING SEWER CLEAN OUT
- EXISTING WATER CURB STOP
- EXISTING STORM SEWER w/ INLET
- EXISTING SANITARY SEWER w/ MANHOLE
- EXISTING OVERHEAD WIRE
- EXISTING ELECTRIC CONDUIT
- EXISTING GAS MAIN
- EXISTING WATER MAIN
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED STORM SEWER w/ INLET
- PROPOSED SANITARY LATERAL

GENERAL LANDSCAPE NOTES

1. Plant material shall be furnished and installed as indicated including all labor, materials, plants, equipment, incidental and clean up.
2. The contractor shall be responsible for planting at correct grades and alignments.
3. Plants shall be typical of their species and variety; have normal growth habits; well developed branches, densly foliated; vigorous root systems, and be free from defects and injuries.
4. Contractor shall report any soil or drainage conditions considered detrimental to the growth of the plant material.
5. In so far as it is practicable, plant materials shall be planted on the day of delivery. In the event this is not possible, the contractor shall protect stock not planted. Plants shall not remain unplanted for longer than a three (3) day period after delivery.
6. All plant material shall meet the standards of the "American Standards for Nursery Stock" by the American Nursery and Landscape Association (2004), or most recent edition, and the height, spread and/or caliper requirements for trees and shrubs listed in Plymouth Township SLDO Appendix C, Acceptable Plant List. All plant material shall be installed in accordance with the planting practices stated in Chapter 3 of "Tree Maintenance" by P.P. Pirone, most recent edition.
7. All plants shall be planted in topsoil that is thoroughly watered and tamped as backfilling progresses. Nothing but suitable topsoil; free of sod, stiff clay, filter, etc., shall be used for planting.
8. Planting operations shall be performed during periods within the planting season when the weather and soil conditions are suitable and in accordance with the accepted local practice.
9. Landscaping contractor shall verify all locations of all utilities prior to placement of landscape material. Contractor shall not place landscaping material atop any stormwater or utility structure.
10. If a plant species or other substitution is made without receiving prior substitution request approval from the Township, the unapproved plants will be rejected upon inspection. All plant substitution requests should be submitted in writing for review.
11. Before mulch is installed, apply pre-emergence weed killer and incorporate into soil according to manufacturers directions.
12. No landscape planting including trees & shrubs are permitted within utility easements.
13. Street trees, screen buffers, softening buffers and other required plant material shall be planted prior to the issuance of a use and occupancy permit. In lieu of planting due to seasonal conditions, the locations of street trees shall be staked and the developer shall be required to submit to the township a memorandum signed by the purchaser at the time of settlement. This memorandum shall indicate that the purchaser understands and acknowledges that the stakes indicate the locations of trees to be planted and that the trees will be planted by the developer.
14. The Borough reserves the right to require additional landscape buffer plantings, following substantial completion of construction, should vegetation to be preserved not be preserved or not otherwise be as represented on the Final Landscape Plan.
15. Any substantial changes to the approved Landscape Plan must be approved by the Borough through plan resubmission. If substantial changes to the landscaping are made without prior approval from the Township, the changes will be rejected upon inspection.
16. All plant material shall be guaranteed for 18 months from the day of final approval of the landscape installation by the Borough. Any plant material 25% or more of which is dead shall be considered dead. A tree shall be considered dead when the main leader has died or 25% of the crown is dead. Any dead plant material shall be replaced and installed according to the approved planting practices.
17. The Applicant shall contact the Borough in writing to request a final inspection for acceptance at the end of the guarantee period. These inspections will be performed when plant materials are in full leaf only, (May 1 through November 15). All guarantee escrow funds will be released upon acceptance at the end of the guarantee period.

LANDSCAPE PLAN

10 5 0 10 30

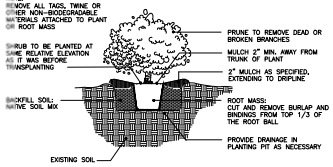
SCALE: 1" = 10'-0"

PLANT SCHEDULE

Plan Symbol	Quantity	Botanical Name	Common Name	Min. Planting Caliper	Min. Planting Spread	Min. Planting Height	Remarks	Comments
Street Trees								
CP	3	*Crataegus phaenopyrum*	Washington Hawthorne	2 1/2" cal.	-	10'	B&B	Single, straight leader
Evergreen Trees								
TO	10	*Thuja occidentalis 'Smaragd'*	American Arborvitae	-	-	6'	B&B	Symmetrical, branched to ground
Ornamental Trees*								
AC	1	*Amelanchier canadensis*	Shadblow Serviceberry	-	-	6'	B&B	Multi-stem, min. 5 stems
Shrubs**								
CS	10	*Cornus sericea*	Red Twig Dogwood	-	-	30-36"	CONT	Heavy, full specimen
IG	5	*Ilex glabra 'Shamrock'*	'Shamrock' Inkberry	-	-	30-36"	CONT	Heavy, full specimen
Perennials**								
AN	27	*Aster novae-angliae 'Purple Dome'*	'Purple Dome' New England Aster	-	-	-	QT/ PLUG	Space 18" on center
PH	33	*Physcostegia virginiana 'Miss Manners'*	'Miss Manners' Obedient Plant	-	-	-	QT/ PLUG	Space 15" on center
PV	58	*Panicum virgatum*	Switchgrass	-	-	-	QT/ PLUG	Space 18" on center
RF	48	*Rudbeckia fulgida var. fulgida*	Black-eyed Susan	-	-	-	QT/ PLUG	Space 15" on center
SS	64	*Schizachyrium scoparium 'Standing Ovation'*	'Standing Ovation' Little Bluestem	-	-	-	QT/ PLUG	Space 15" on center

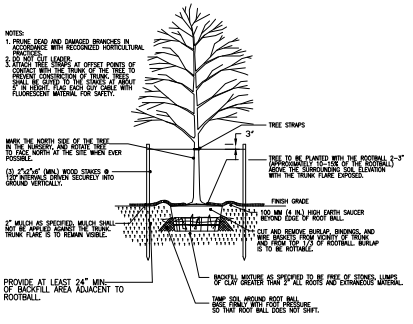
* Ornamental tree to be provided in cooperation with Ambler Environmental Advisory Council, sizes contingent upon availability

** Plant in continuous mulch bed (2-3" depth) until fully established.



SHRUB PLANTING DETAIL

NOT TO SCALE



ORNAMENTAL AND SHADE TREE PLANTING/ STAKING DETAIL

NOT TO SCALE

General Notes

PENNSYLVANIA REGISTERED LANDSCAPE ARCHITECT

Landscape Plan

No.	Revision/Issue	Date

Firm Name and Address

InFocus Planning
EFFECTIVE EFFICIENT
LAND DEVELOPMENT SERVICES

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Project Name and Address

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209 RACE STREET
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MONTGOMERY COUNTY, PA

Project	InFocus_19-18	Sheet
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Scale	As Noted	