













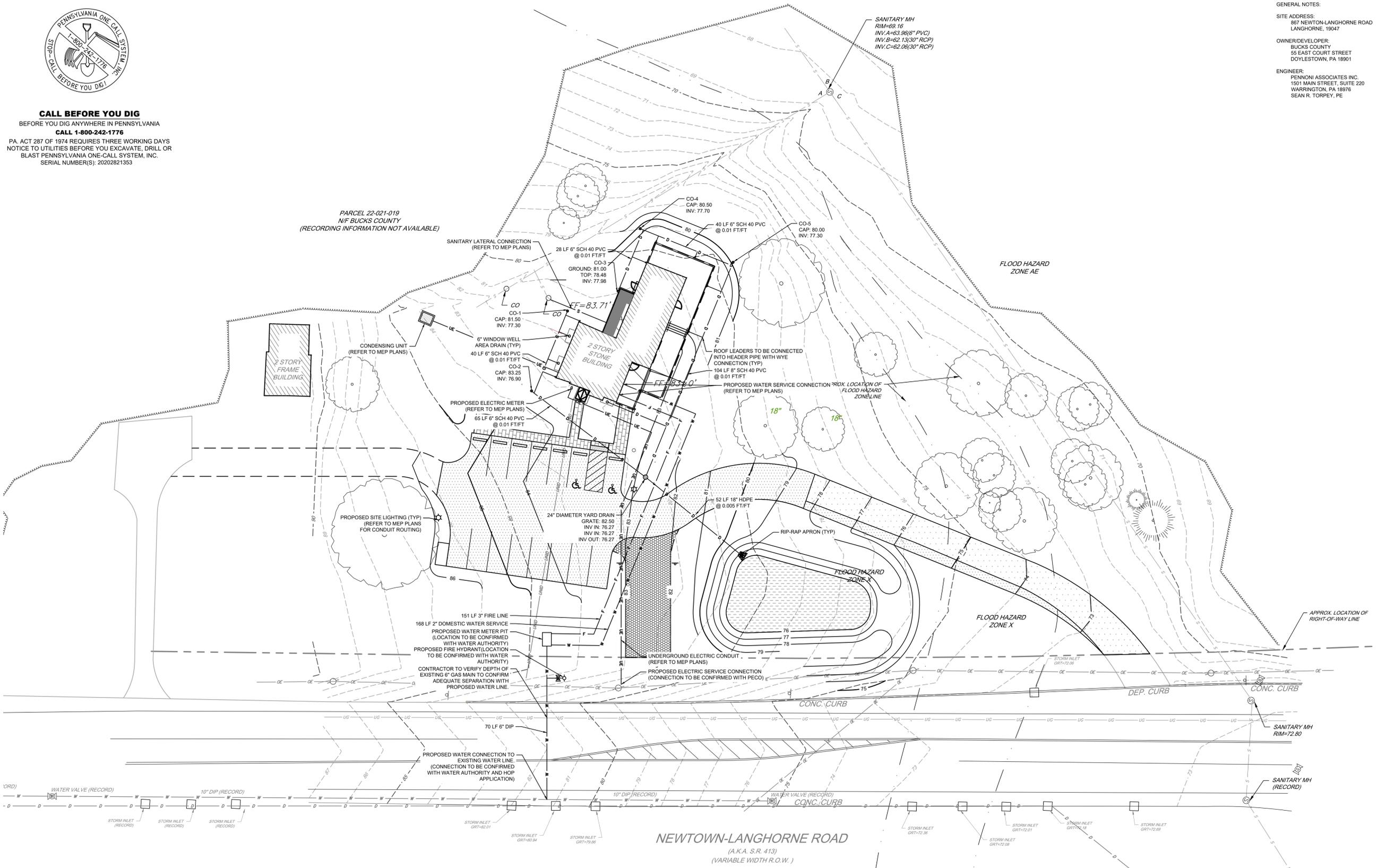
**CALL BEFORE YOU DIG**  
BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA  
CALL 1-800-242-1776  
PA. ACT 287 OF 1974 REQUIRES THREE WORKING DAYS  
NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL OR  
BLAST PENNSYLVANIA ONE-CALL SYSTEM, INC.  
SERIAL NUMBER(S): 20202821353

GENERAL NOTES:  
SITE ADDRESS:  
867 NEWTON-LANGHORNE ROAD  
LANGHORNE, 19047  
OWNER/DEVELOPER:  
BUCKS COUNTY  
55 EAST COURT STREET  
DOYLESTOWN, PA 18901  
ENGINEER:  
PENNONI ASSOCIATES INC.  
1501 MAIN STREET, SUITE 220  
WARRINGTON, PA 18976  
SEAN R. TORPEY, PE

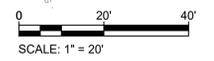
**Pennonni**  
PENNONI ASSOCIATES INC.  
1900 Market Street, Suite 300  
Philadelphia, PA 19103  
T 215.222.3000 F 215.222.3588



PARCEL 22-021-019  
N/F BUCKS COUNTY  
(RECORDING INFORMATION NOT AVAILABLE)



LEGEND	
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING BUILDING
	EXISTING CURB
	EXISTING SIDEWALK
	EXISTING EDGE OF GRAVEL
	EXISTING TRAFFIC MARKING
	EXISTING FENCE
	EXISTING TREE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING SPOT ELEVATION
	EXISTING SIGN
	EXISTING UTILITY POLE
	EXISTING PEDESTRIAN/STREET LIGHT
	EXISTING FIRE HYDRANT
	EXISTING CITY INLET
	EXISTING PYLON SIGN
	EXISTING SEWER
	EXISTING STORM SEWER
	EXISTING WATER LINE
	EXISTING UNDERGROUND COMMUNICATION
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING UNDERGROUND GAS LINE
	EXISTING UTILITY STRUCTURES
	PROPOSED BUILDING AT GRADE
	PROPOSED DOOR
	PROPOSED BUILDING OVERHANG
	PROPOSED CONCRETE SIDEWALK
	PROPOSED LANDSCAPED AREA
	PROPOSED CURB
	PROPOSED DEPRESSED CURB
	PROPOSED WALL
	PROPOSED PARKING STRIPING
	PROPOSED STOP BAR/PAVEMENT MARKING
	PROPOSED SIGN
	PROPOSED TREES AND SHRUBS



NEWTOWN-LANGHORNE ROAD  
(A.K.A. S.R. 413)  
(VARIABLE WIDTH R.O.W.)

AAMBC AT CORE CREEK PARK  
867 NEWTON-LANGHORNE ROAD  
LANGHORNE, 19047

UTILITY PLAN

BUCKS COUNTY, PA.

NO.	DATE	REVISIONS	BY

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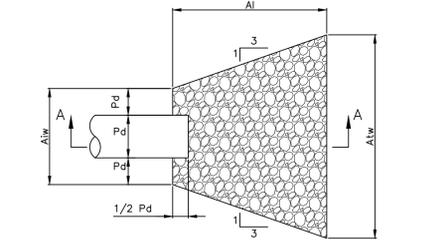
PROJECT	BUCPD20007
DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	0502
APPROVED BY	SRT

**CS1701**  
SHEET 6 OF 102

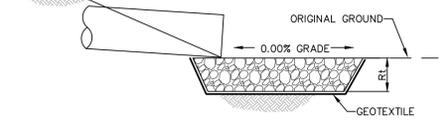
**ISSUED FOR BID/ PERMIT**  
DATE: 12/01/2020

PROJECT STATUS: PLOTTED: 7/23/2021 2:52 PM BY: Mary Minkus PLOT STYLE: Pennoni.rvt





**PLAN VIEW**

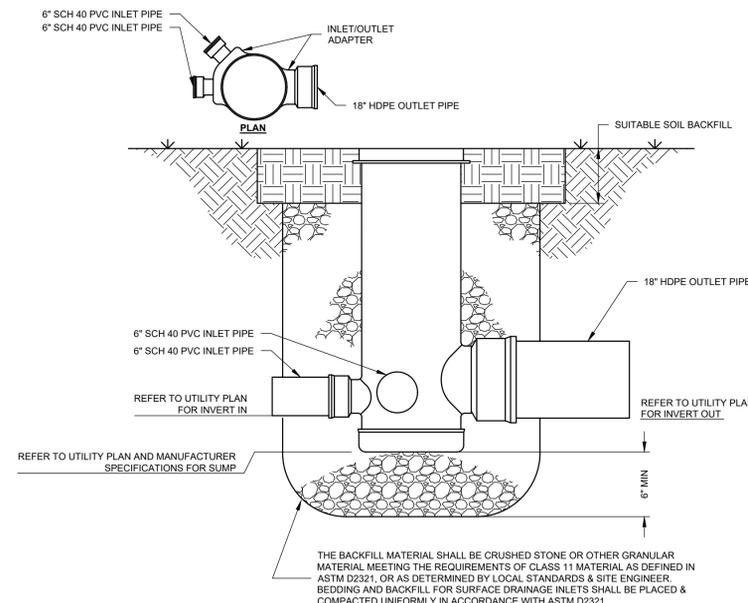


**SECTION A-A**

OUTLET NO.	PIPE DIA (IN)	PIPE Pd (IN)	RIPRAP SIZE R-- (IN)	RIPRAP THICK. RT (IN)	RIPRAP LENGTH AI (FT)	APRON INITIAL WIDTH A1w (FT)	APRON TERMINAL WIDTH A2w (FT)
88	88	88	8	88	88	88	88

**NOTES:**  
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.  
ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.  
EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

**STANDARD CONSTRUCTION DETAIL #9-2  
RIPRAP APRON AT PIPE OUTLET  
NO FLARED ENDWALL**  
NOT TO SCALE

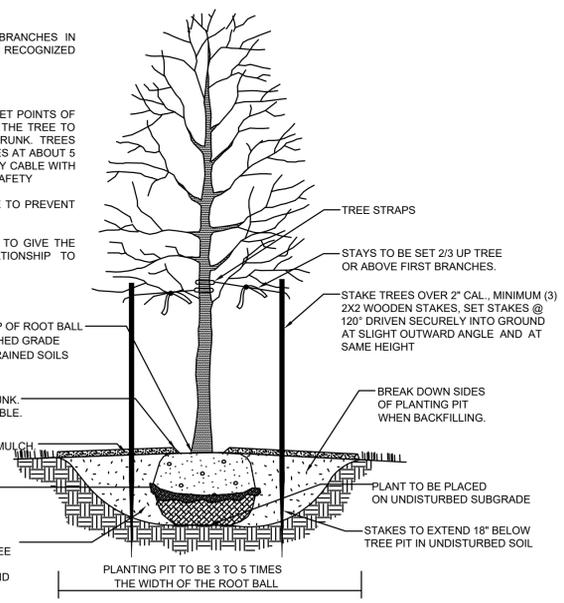


**NOTE:** GRATES/COVERS SHALL MEET H-20 LOAD RATING FOR 12'-30" STANDARD & SOLID  
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 11 MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING AND BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

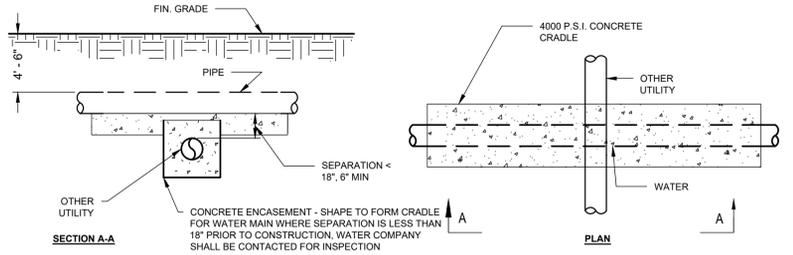
**24" DIAMETER YARD DRAIN (NYLOPLAST DRAIN BASIN OR APPROVED EQUAL)**  
NOT TO SCALE

**NOTES:**  
PRUNE DEAD AND DAMAGED BRANCHES IN ACCORDANCE WITH RECOGNIZED HORTICULTURAL PRACTICES.  
DO NOT CUT LEADER  
ATTACH TREE STRAPS AT OFFSET POINTS OF CONTACT WITH THE TRUNK OF THE TREE TO PREVENT CONSTRICTION OF TRUNK. TREES SHALL BE GUYED TO THE STAKES AT ABOUT 5 FEET IN HEIGHT. FLAG EACH GUY CABLE WITH FLUORESCENT MATERIAL FOR SAFETY  
USE DIGGING FORK NOT SPADE TO PREVENT GLAZING OF PIT EDGES  
SET PLANTS PLUMB AND FACE TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT AREAS.

REMOVE EXCESS SOIL FROM TOP OF ROOT BALL SET TOP OF ROOT BALL AT FINISHED GRADE OR 1" TO 2" ABOVE IN POORLY DRAINED SOILS  
DO NOT USE TREE WRAP  
KEEP MULCH 3" AWAY FROM TRUNK TRUNK FLARE IS TO REMAIN VISIBLE  
3" MIN. SHREDDED HARDWOOD MULCH  
FOLD DOWN AND/OR REMOVE BURLAP OR WIRE BASKET FROM TOP 1/2 OF ROOT BALL.  
SPECIFIED PLANT MIX: 1/3 COMPOST 2/3 EXISTING SOIL, FREE OF STONES CLUMPS OF CLAY GREATER THAN 2" ALL ROOTS AND EXTRANEIOUS MATERIAL WATER THOROUGHLY TO ELIMINATE AIR POCKETS.

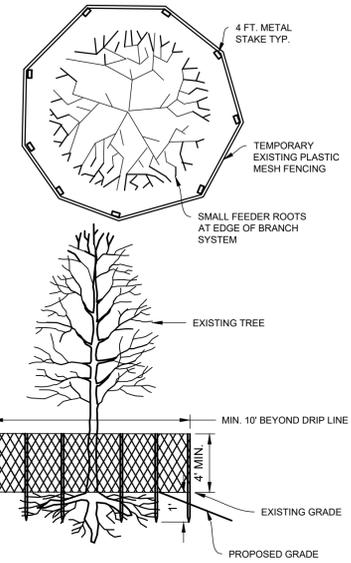


**DECIDUOUS TREE PLANTING**  
NOT TO SCALE



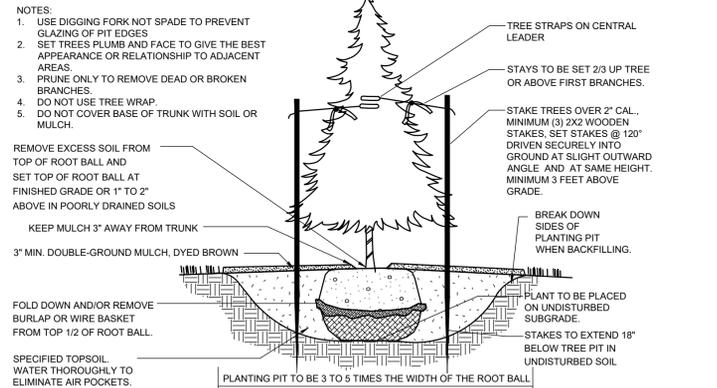
**CONCRETE ENCASEMENT**  
NOT TO SCALE

**NOTE:** 1. PROVIDE CONCRETE CRADLE FOR UTILITY CROSSINGS WITH LESS THAN 18" OF SEPARATION.

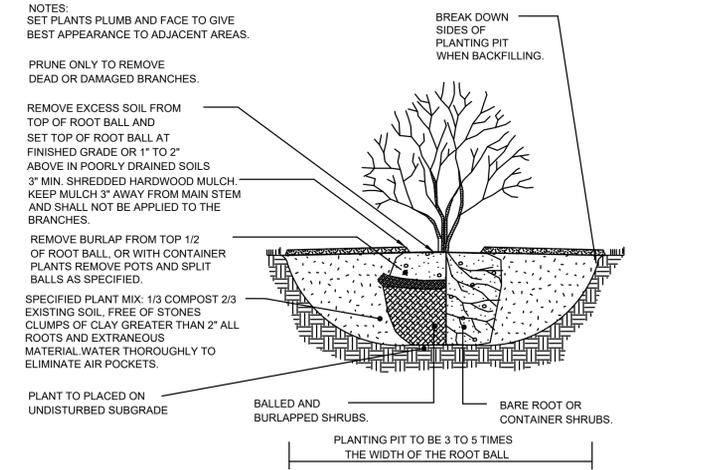


**NOTES:**  
1. THOSE TREES WHICH ARE WITHIN TWENTY-FIVE (25) FEET OF ANY PROPOSED EXCAVATION OR GRADING OPERATION, OR IN ANY OTHER LOCATION DEEMED APPROPRIATE BY THE ENGINEER, SHALL BE PROTECTED BY INSTALLING AND MAINTAINING A FENCE AT THE DRIP LINE.  
2. NO BOARDS OR OTHER MATERIAL SHALL BE NAILED TO TREES DURING CONSTRUCTION.  
3. HEAVY EQUIPMENT OPERATORS SHALL AVOID DAMAGING EXISTING TREE TRUNKS FEET FROM TREE TRUNKS.  
4. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE BY BEING TREATED IMMEDIATELY.  
5. TREE LIMBS DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY PRUNED AND TREATED IMMEDIATELY.  
6. THE OPERATION OF HEAVY EQUIPMENT OVER ROOT SYSTEMS OF SUCH TREES SHALL BE MINIMIZED IN ORDER TO PREVENT SOIL COMPACTION.  
7. DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.  
8. CONSTRUCTION DEBRIS SHALL NOT BE DISPOSED OF NEAR OR AROUND TREES.

**TREE PROTECTION**  
NOT TO SCALE



**EVERGREEN TREE PLANTING**  
NOT TO SCALE



**SHRUB PLANTING**  
NOT TO SCALE

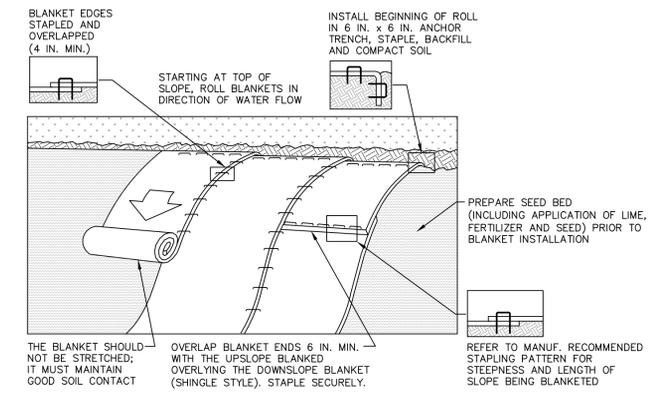
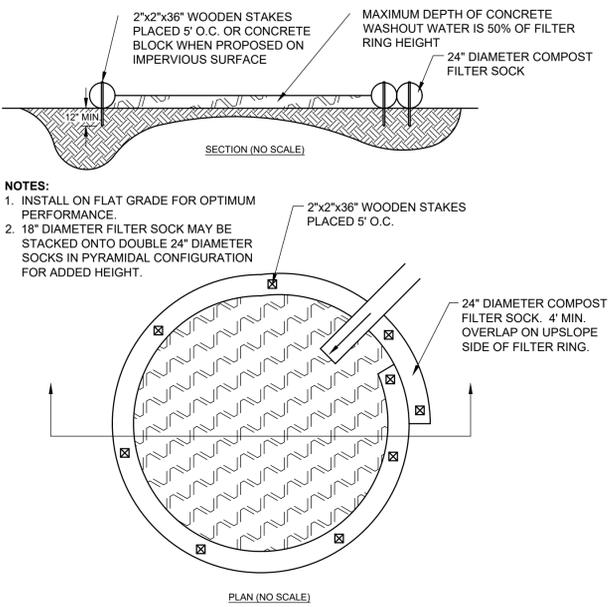
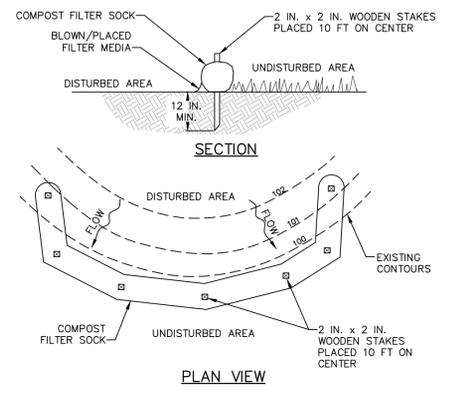
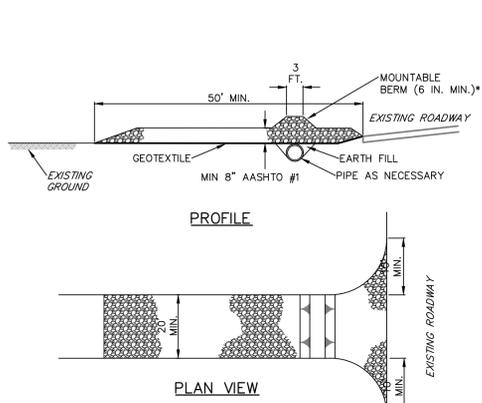
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DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	0502
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**NOTES:**

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.

**NOTES:**

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SOCKS SHALL MEET THE STANDARDS OF TABLE 4.2 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.

**NOTES:**

- A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
- WHENEVER COMPOST SOCK WASHOUTS ARE USED, A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND THE PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER (AS SHOWN ABOVE). CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STAKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.
- ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

**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.

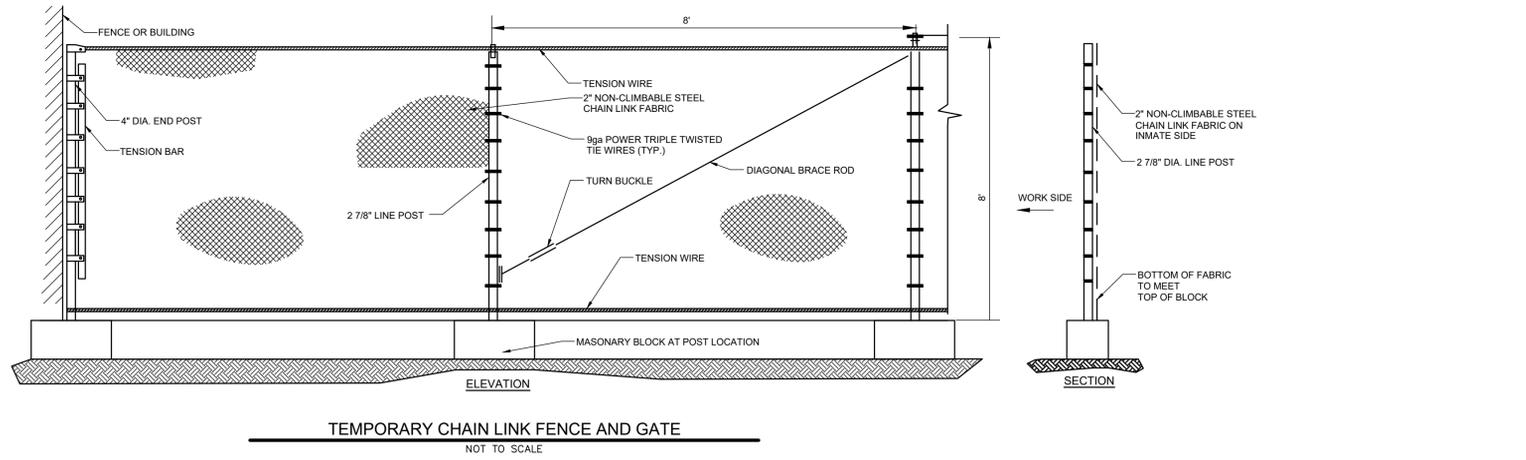
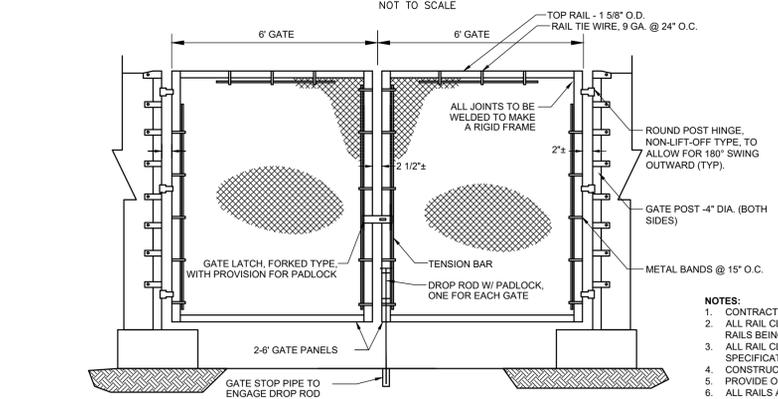
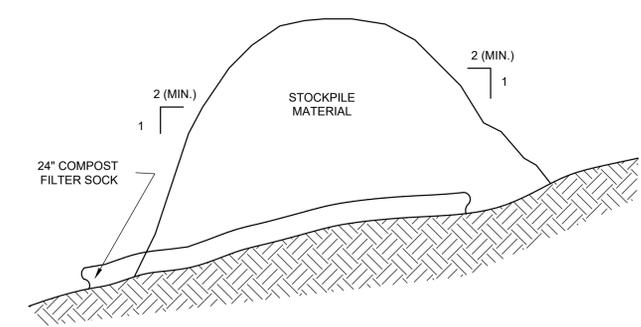
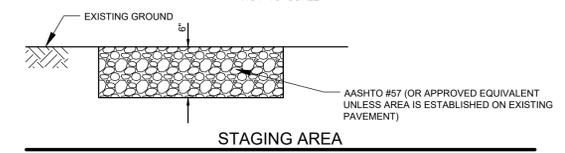
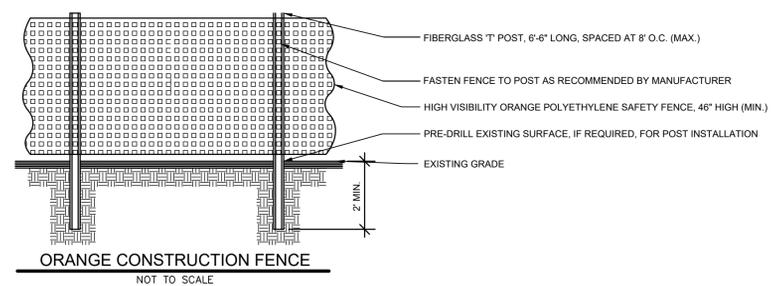
BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

**STANDARD CONSTRUCTION DETAIL #3-1  
ROCK CONSTRUCTION ENTRANCE**

**STANDARD CONSTRUCTION DETAIL #4-1  
COMPOST FILTER SOCK**

**TYPICAL COMPOST SOCK / CONCRETE WASHOUT**

**STANDARD CONSTRUCTION DETAIL #11-1  
EROSION CONTROL BLANKET INSTALLATION**



**FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION  
PRODUCT SELECTION AND SPECIFICATION DRAWING**

**NOTES:**

- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL (ZINC PLATED OR GALVANIZED) FOR 7 YEAR MINIMUM SERVICE LIFE.
- UPON ORDERING CONFIRMATION OF THE DIT CALL OUT, PRECAST OR CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FIRMS MUST BE PROVIDED TO CONFIGURE AND ASSEMBLE YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
- FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM)

**INSTALLATION:**

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

**1. IDENTIFY YOUR FRAME STYLE AND SIZE**

STYLE	FRAME STYLE AND SIZE	Frame P/N
ROUND	Small Round (Up to 20\"/>	

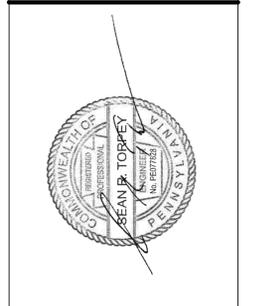
**2. SELECT YOUR BAG PART NUMBER**

INLET	Filter Bag P/N	Flow Rate (GPM)	Flow Rate (MGD)
12\"/>			

**3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER**

Frame P/N From Step 1. Filter Bag P/N From Step 2.

**FLEXSTORM CATCH IT**  
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC.  
WWW.INLETFILTERS.COM  
(866) 287-8655 PH  
(630) 395-3477 FX  
INLET@INLETFILTERS.COM



**AAMBC AT CORE CREEK PARK**  
887 NEWTON-LANGHORNE ROAD  
LANGHORNE, 19047

**EROSION AND SEDIMENTATION  
CONTROL DETAILS**

BUCKS COUNTY, PA.

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