

AAMBC AT CORE CREEK PARK

**867 NEWTOWN-LANGHORNE ROAD
LANGHORNE, PA.**

PREPARED FOR:

BUCKS COUNTY, PA.

COUNTY OF BUCKS
55 EAST COURT STREET
DOYLESTOWN, PA 18901



SITE LOCATION MAP

Scale: N.T.S



KEY PLAN

Scale: N.T.S

EXISTING CONDITIONS DOCUMENTATION

THE URL OR QR CODE PROVIDED BELOW PROVIDE ACCESS TO PENNONI'S "PHOTO360" WEBSITE OF THE EXISTING BUILDING AND SURROUNDING SITE, WHICH PROVIDED A VIRTUAL DOCUMENTATION OF THE PROJECT LOCATION AS OF SEPTEMBER 11, 2020. THE PHOTO360 PLATFORM ALSO CONTAINS THE POINT CLOUD DATASET FROM THE HIGH DEFINITION LASER SCAN SURVEY, WHICH CAN BE USED FOR APPROXIMATE DIMENSIONS OF THE EXISTING BUILDING. THE PHOTO360 WEBSITE IS CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS.

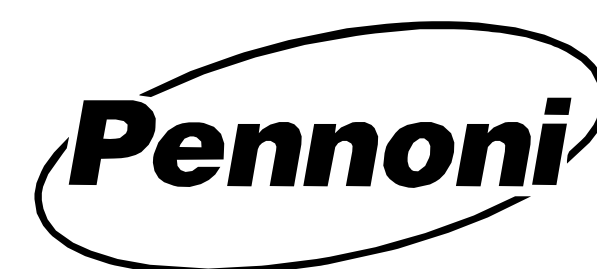


<http://photo360.pennoni.com/projects/bucpd20007/>



PREPARED BY:

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CONSULTANTS:



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Ph. 215-546-0800



Voith & Mactavish Architects LLP
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Philadelphia, PA 19103

DRAWING LIST

SHEET NUMBER	SHEET NAME	ISSUE
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DRAWING LIST

SHEET NUMBER	ISSUE
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MP-112	MECHANICAL & PLUMBING PROPOSED - SECOND FLOOR
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MP-310	MECHANICAL & PLUMBING SCHEDULES
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FP-001	FIRE PROTECTION SYMBOLS, ABBREVIATIONS & GEN. NOTES
FP-002	FIRE PROTECTION SPECIFICATIONS
FP-003	FIRE PROTECTION SPECIFICATIONS
FP-110	FIRE PROTECTION PROPOSED - BASEMENT
FP-111	FIRE PROTECTION PROPOSED - GROUND FLOOR
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FP-113	FIRE PROTECTION PROPOSED - THIRD FLOOR
FA-001	FIRE ALARM INDEX SHEET
FA-002	FIRE ALARM INDEX SHEET
FA-110	FIRE ALARM PROPOSED - BASEMENT
FA-111	FIRE ALARM PROPOSED- GROUND FLOOR
FA-112	FIRE ALARM PROPOSED - SECOND FLOOR
FA-113	FIRE ALARM PROPOSED - THIRD FLOOR

Pennoni

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AAMBC AT CORE CREEK PARK

367 NEWTOWN-LANGHORNE ROAD
LANGHORNE, PA.

COVER SHEET
BUCKS COUNTY, PA.[illegible]

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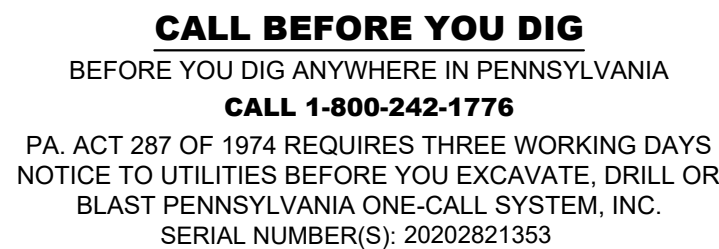
PROJECT	BUCPD20007
DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	Author
APPROVED BY	Approver

CS-000

SHEET 1 OF 102

ISSUED FOR BID/ PERMIT

DATE: 12/01/2020



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



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

EXISTING CONDITIONS AND DEMOLITION PLAN

BUCK'S COUNTY,
PA.

[illegible]

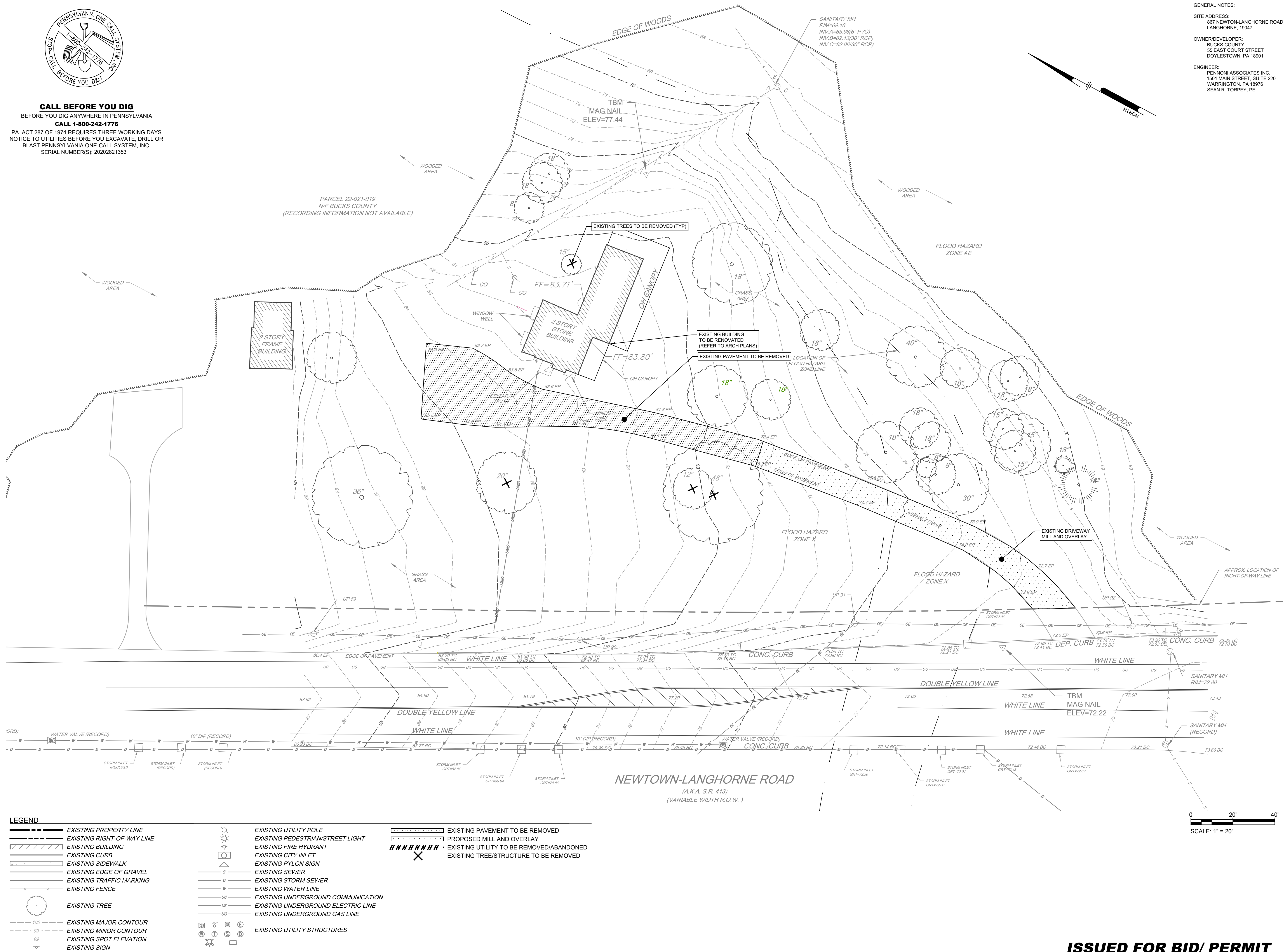
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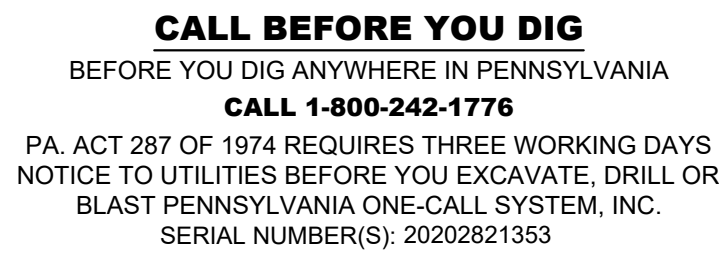
PROJECT	BUCPD20007
DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	FML
APPROVED BY	FML

CS0201

SHEET 3 OF 102

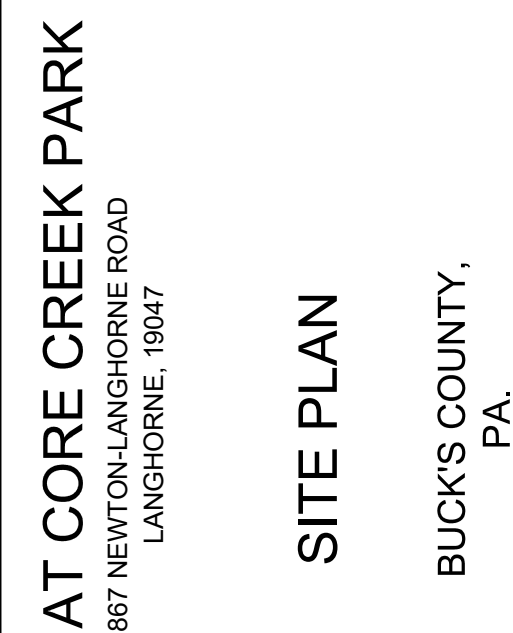
ISSUED FOR BID/ PERMIT
DATE: 12/01/2020





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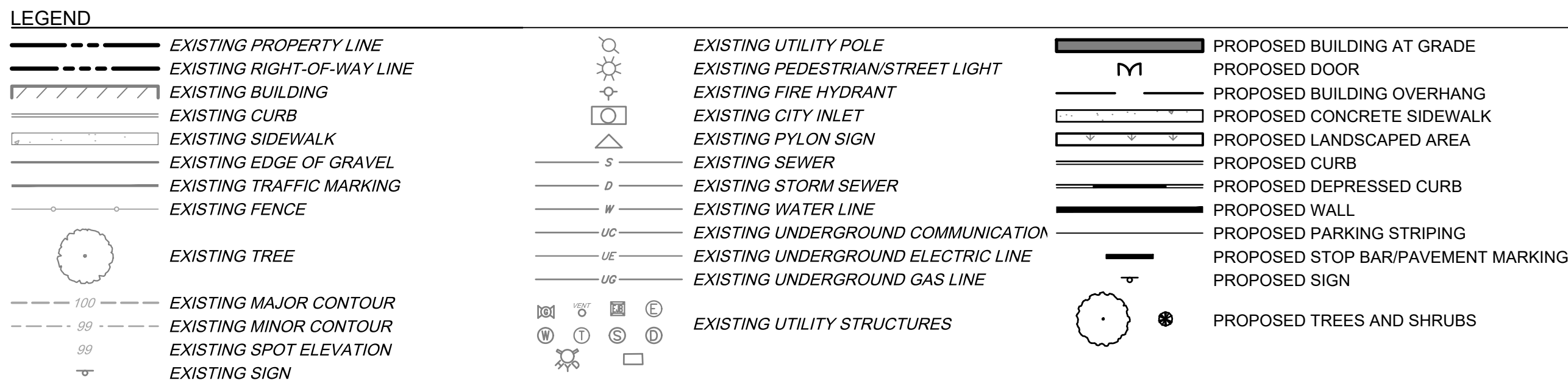
PENNONI ASSOCIATES INC.
1900 Market Street, Suite 300
Philadelphia, PA 19103
T 215.222.3000 F 215.222.3588

[illegible]

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

CS1001

SHEET 4 OF 102


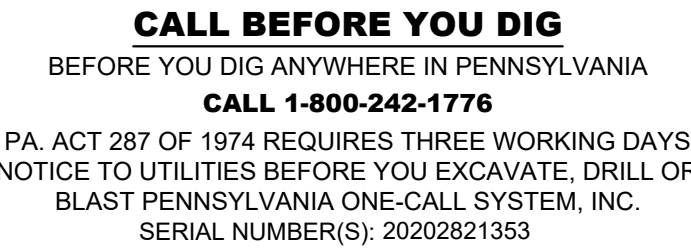


Planting Schedule					
Quantity	Key	Scientific Name	Common Name	Size	Remarks
Deciduous Trees					
3	AC	Amelanchier canadensis	Service Berry	8'-10' HT.	Multistemmed
4	AR	Acer rubrum	Red Maple	2-1/2' Cal. Min.	Natural Form
3	BN	Betula nigra	River Birch	8'-10' HT.	Multistemmed
2	GT	Gleditsia triacanthos 'Thornless'	Honey Locust	2-1/2' Cal. Min.	Natural Form
Shrubs					
9	CS	Cornus servicea	Red Twig Dogwood	#5 Cont.	Natural Form
3	IG	Ilex glabra	Inkberry Holly	#5 Cont.	Natural Form
6	PL	Prunus laurocerasus 'Schipkaensis'	Schip Laurel	#5 Cont.	Natural Form
6	VD	Viburnum dentatum	Arrowwood Viburnum	#5 Cont.	Natural Form

0 20' 40'

SCALE: 1" = 20'

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

The Pennoni logo, featuring the word "Pennoni" in a bold, sans-serif font, enclosed within a thick, black, oval-shaped border.

GRADING PLAN

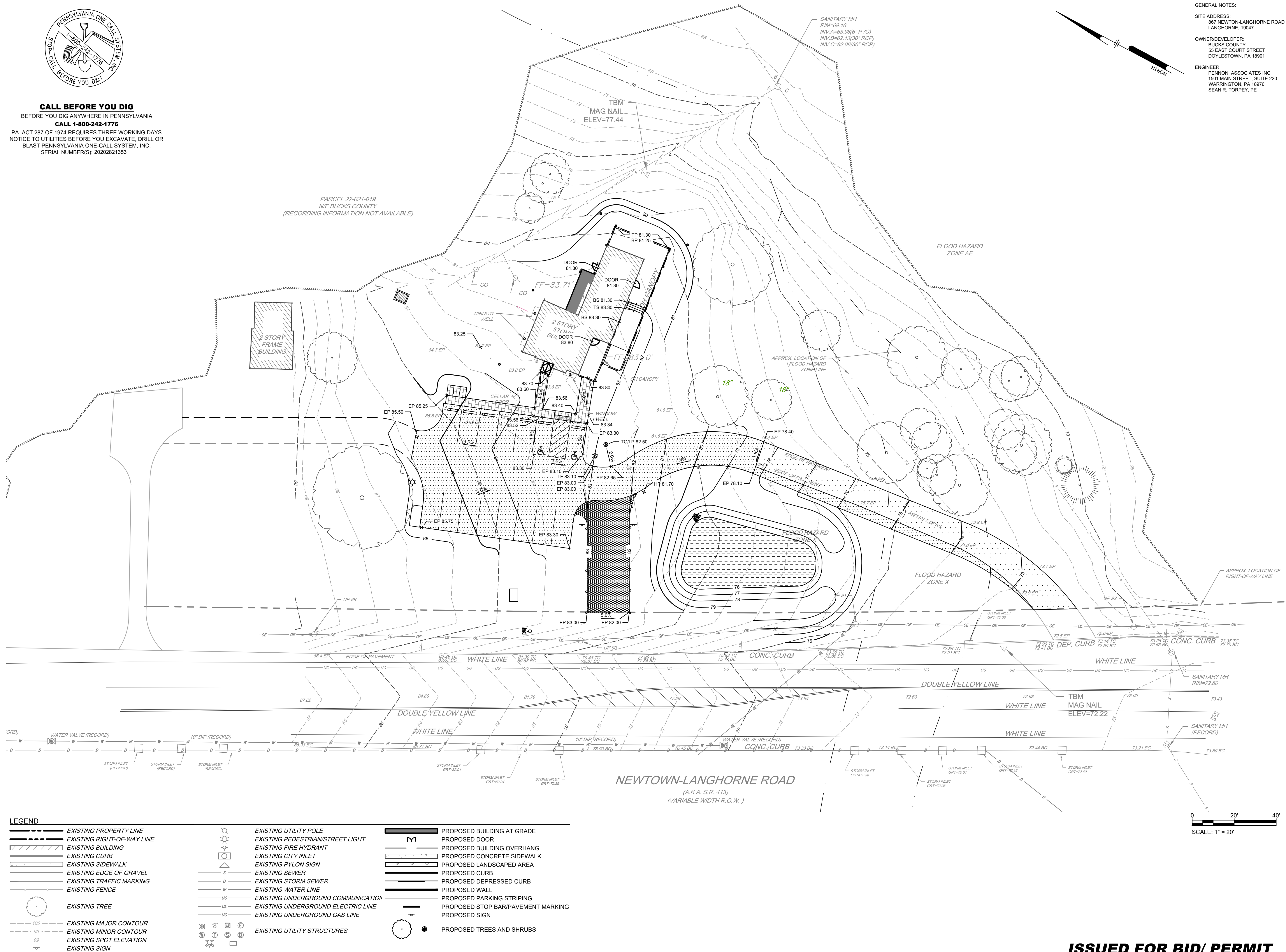
BUCK'S COUNTY,
PA.

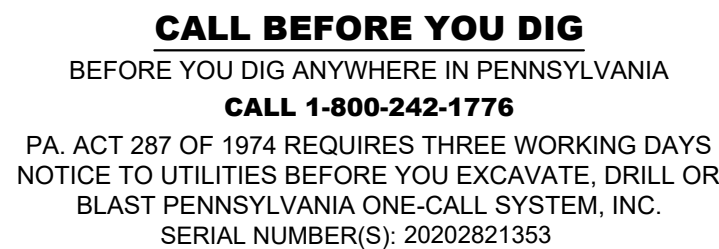
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PROJECT	BUCPD20007
DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	0502
APPROVED BY	SRT













CS1501
SHEET 5 OF 102

















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

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

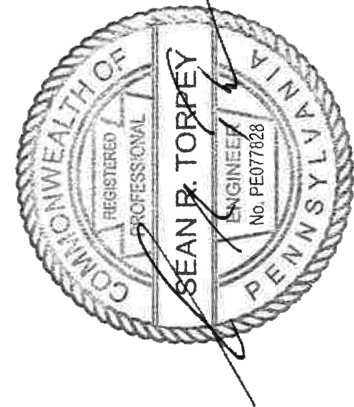
PROPOSED TREES AND SHRUBS

GENERAL NOTES:

SITE ADDRESS:
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LANGHORNE, 19047

OWNER/DEVELOPER:
BUCKS COUNTY
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AAMBC AT CORE CREEK PARK
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LANGHORNE, 19047

UTILITY PLAN

BUCK'S COUNTY,
PA

[illegible]

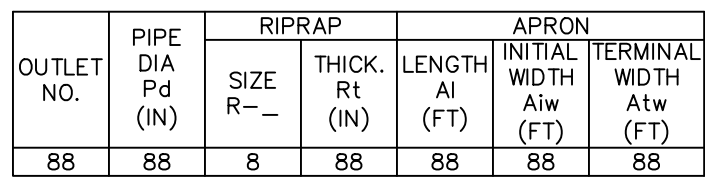
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PROJECT	BUCPD20007
DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	0502
APPROVED BY	SRT

CS1701

SHEET 6 OF 102

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



STANDARD CONSTRUCTION DETAIL #9-2
RIPRAP APRON AT PIPE OUTLET
NO FLARED ENDWALL

NOT TO SCALE



DECIDUOUS TREE PLANTING

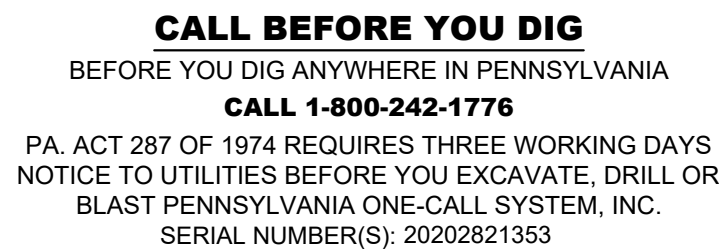


EVERGREEN TREE PLANTING
NOT TO SCALE

SHRUB PLANTING
NOT TO SCALE

[illegible]

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GENERAL NOTES:

SITE ADDRESS:
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LANGHORNE, 19047

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EROSION AND SEDIMENTATION CONTROL PLAN

BUCK'S COUNTY,
PA.

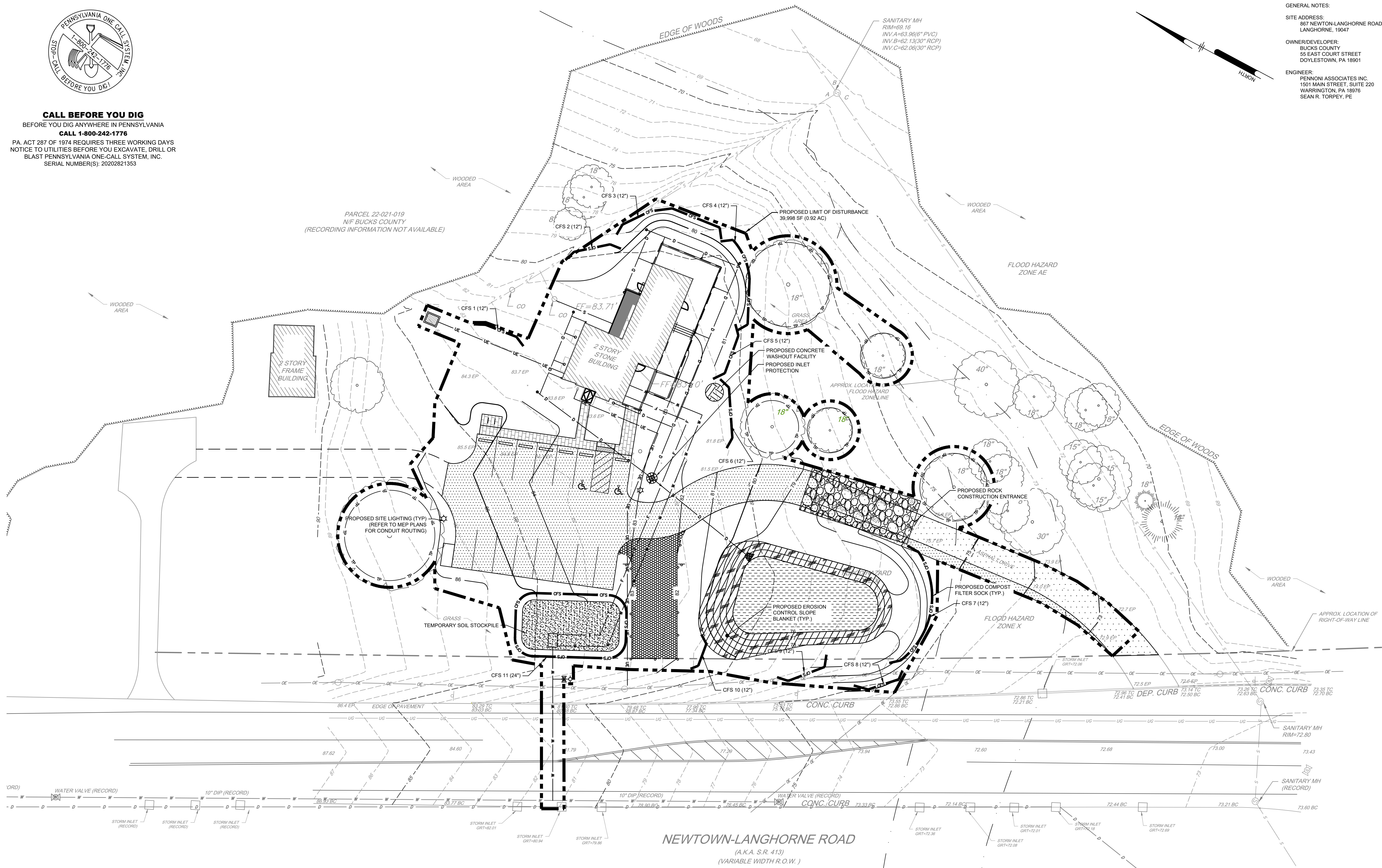
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PROJECT	BUCPD20007
DATE	12/1/2020
DRAWING SCALE	AS NOTED
DRAWN BY	0502
APPROVED BY	SRT

CS8001

SHEET 9 OF 102



- | LEGEND | | | |
|--------|-------------------------------------|--|------------------------------------|
| | EXISTING PROPERTY LINE | | EXISTING UTILITY POLE |
| | EXISTING RIGHT-OF-WAY LINE | | EXISTING PEDESTRIAN/STREET LIGHT |
| | EXISTING BUILDING | | EXISTING FIRE HYDRANT |
| | EXISTING CURB | | EXISTING CITY INLET |
| | EXISTING SIDEWALK | | EXISTING PYLON SIGN |
| | EXISTING EDGE OF GRAVEL | | EXISTING SEWER |
| | EXISTING TRAFFIC MARKING | | EXISTING STORM SEWER |
| | EXISTING FENCE | | EXISTING WATER LINE |
| | EXISTING TREE | | EXISTING UNDERGROUND COMMUNICATION |
| | EXISTING MAJOR CONTOUR | | EXISTING UNDERGROUND ELECTRIC LINE |
| | EXISTING MINOR CONTOUR | | EXISTING UNDERGROUND GAS LINE |
| | EXISTING SPOT ELEVATION | | EXISTING UTILITY STRUCTURES |
| | EXISTING SIGN | | |
| | PROPOSED BUILDING AT GRADE | | PROPOSED DEPRESSED CURB |
| | PROPOSED DOOR | | PROPOSED WALL |
| | PROPOSED BUILDING OVERHANG | | PROPOSED PARKING STRIPING |
| | PROPOSED CONCRETE SIDEWALK | | PROPOSED STOP BAR/PAVEMENT MARKING |
| | PROPOSED LANDSCAPED AREA | | PROPOSED SIGN |
| | PROPOSED CURB | | PROPOSED TREES AND SHRUBS |
| | PROPOSED DISTURBANCE | | PROPOSED CONCRETE WASHOUT |
| | PROPOSED ROCK CONSTRUCTION ENTRANCE | | PROPOSED TREE PROTECTION |
| | PROPOSED STAGING AREA | | PROPOSED COMPOST FILTER SOCK |
| | PROPOSED STOCKPILE | | |
| | PROPOSED SLOPE BLANKET | | |
| | PROPOSED INLET PROTECTION | | |
| | PROPOSED TEMPORARY CHAIN LINK FENCE | | |
| | PROPOSED CONSTRUCTION FENCE | | |

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DATE: 12/01/2020

ALL EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED E&S PLAN (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, ALL LOCAL MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.

5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED, IF NECESSARY, AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO 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 SLOPES SHALL BE 2H:1V OR FLATTER.

9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.

10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ. 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.

11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL ANALYZED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN. OVER UNDISTURBED VEGETATED AREAS. 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.

14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS. VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED ROCK CONSTRUCTION ENTRANCE FROM THE ACCESS DRIVE.

15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. THE OPERATOR WILL MAINTAIN AND MAKE AVAILABLE TO BERKS COUNTY CONSERVATION DISTRICT COMPLETE, WRITTEN INSPECTION LOGS OF ALL THOSE INSPECTIONS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

16. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.

18. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

20. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

21. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

22. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

23. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

24. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

25. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

26. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AND GRASSING WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.

27. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, WITH MULCH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.

28. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR MOTHER MOVEMENTS.

29. EROSION AND SEDIMENT BMPs MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPs. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.

30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.

31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.

32. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.

33. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-ADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

34. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.

35. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

36. IN THE EVENT OF SINKHOLE DISCOVERY A PROFESSIONAL GEOLOGIST OR ENGINEER WILL BE CONTACTED CONCERNING MITIGATION. ADDITIONALLY, THE BERKS COUNTY CONSERVATION DISTRICT WILL BE MADE AWARE OF THE SINKHOLE DISCOVERY IMMEDIATELY.

37. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

38. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX 64, 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.

39. THE E&S CONTROL PLAN MAPPING MUST DISPLAY A PA ONE CALL SYSTEM INCORPORATED SYMBOL INCLUDING THE SITE IDENTIFICATION NUMBER. (THIS IS A NUMBERED SYMBOL NOT A NOTE.)

40. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN

THE E&S PLANS HAVE BEEN DESIGNED TO:

- 1 MINIMIZE THE EXTENT AND DURATION OF EARTH DISTURBANCE.
- 2 MAXIMIZE THE PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION.
- 3 MINIMIZE SOIL COMPACTION.
- 4 UTILIZE OTHER MEASURES OR CONTROLS THAT PREVENT OR MINIMIZE GENERATION OF INCREASED STORMWATER RUNOFF.

1. SPREAD AND FINE GRADE 12" TOPSOIL ON ALL AREAS TO BE PERMANENTLY SEEDED

2. BEFORE SEEDING, APPLY APPROPRIATE SOIL MODIFICATIONS.
3. INSTALL EROSION/SEED BLANKET WHERE NEEDED.
4. WATER AND MAINTAIN ALL LAWN AREAS.
5. RESEED BARE OR THIN AREAS AS DIRECTED BY THE ENGINEER.

6. IF GROUND COVER IS NOT OTHERWISE SPECIFIED ON THE APPROVED LANDSCAPING PLANS, USE SEED MIXTURE 2, AS SHOWN IN TABLE 11.4.

57. APPLY STRAW MULCH AT 3.0 TON/ACRE IMMEDIATELY AFTER SEEDING.

8. APPLY STRAW AND MULCH DURING NON-GROWING SEASONS (NOVEMBER - MARCH)

1. DURING THE LIFE OF THE PROJECT, ALL EROSION AND SEDIMENTATION CONTROL DEVICES MUST BE PROPERLY MAINTAINED. MAINTENANCE SHALL INCLUDE THE INSPECTION OF EROSION CONTROL FACILITIES AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS, UNLESS MORE FREQUENT INSPECTION IS REQUIRED. IMMEDIATELY PERFORM CLEANOUT, REPAIR AND REPLACEMENT OF THE FACILITIES AS NEEDED. (REGRADE, RESEED AND MULCH WASHED OUT AREAS AS NEEDED.)

- UNTIL THE SITE IS STABILIZED ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO DEP UPON REQUEST.
3. WHERE BMP'S ARE FOUND TO FAIL TO ALLEVIATE EROSION OR SEDIMENT POLLUTION THE PERMITTEE OR CO-PERMITTEE NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT OF THE FAILURE AND SHALL INCLUDE THE FOLLOWING INFORMATION:
- 3.1. THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS.
- 3.2. ALL STEPS TAKEN TO, REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.
- 3.3. THE TIME FRAME TO CORRECT THE NONCOMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.
4. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADEING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY IF EROSION AND SEDIMENTATION BMP'S FAIL TO PERFORM AS EXPECTED. REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED.
5. SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED, AS NECESSARY, AND THEN RESEDED. A STRAW COVER SHALL BE APPLIED TO RETAIN THE SEED ALONG WITH AN ANCHORING METHOD DESCRIBED ON THE ATTACHED MULCH ANCHORING GUIDE, UNTIL IT HAS A CHANCE TO ROOT PROPERLY.
6. 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 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
7. SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.
8. INLET FILTER BAGS SHALL BE CLEANED OUT OR REPLACED WHEN BAG IS HALF FULL.
9. SEDIMENT SHALL BE REMOVED FROM COMPOST FILTER SOCKS WHEN REACHING ONE HALF THE HEIGHT OF THE SOCK, IF USED.
10. THE CONTRACTOR SHALL INSPECT ALL ROCK CONSTRUCTION ENTRANCES ON A DAILY BASIS AND SHALL ENSURE THAT SEDIMENT IS NOT BEING TRACKED ONTO PUBLIC STREETS. SEDIMENT THAT IS TRACKED ONTO PUBLIC STREETS SHALL BE COLLECTED AND RETURNED TO THE SITE OR OTHERWISE PROPERLY REMOVED BY A STREET SWEEPER.
11. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS, IF USED.
12. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN MAXIMUM 6 INCH LAYERED LIFTS AT 95% DENSITY.
13. THE CONCRETE WASHOUT AREA (CWA) SHALL BE REPAIRED, CLEANED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
14. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
15. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
16. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZE IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
17. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ABOVE. IN NO CASE SHALL IT BE ALLOWED TO ENTER THE SURFACE WATERS OR GROUNDWATER SYSTEMS.

1. SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALE, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN PLACE TO AVOID EROSION OF ADJACENT PROPERTIES.

2. THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 64, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1, D.E.P., SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

3. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING TREES AND SHRUBS WHICH ARE TO REMAIN IN PLACE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES, INCLUDING REPLACING TREES OR SHRUBS IN KIND IF NECESSARY.

4. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING REGULARLY TRACKED ONTO PUBLIC STREETS, THE CONTRACTOR SHALL BE PREPARED, UPON WRITTEN NOTICE GIVEN BY THE MUNICIPALITY OR THE CONSERVATION DISTRICT, TO PROVIDE TREE WASHING FACILITIES AT ALL ROCK CONSTRUCTION ENTRANCES.

THE OPERATOR IS RESPONSIBLE FOR ENSURING THAT ALL MATERIAL PLACED ON THE SITE QUALIFIES AS CLEAN FILL. 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 PROJECTS. MATERIALS THAT ARE NOT ALLOWED TO BE PLACED ON THE SITE ARE: HAZARDOUS WASTE, LIQUIDS, FLAMMABLES, VOLATILES, ORGANICS, AND ORGANIC SOLIDS. UNLESS OTHERWISE AUTHORIZED, ALL FILL MATERIAL MUST BE USED IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S POLICY "MANAGEMENT OF FILL" DOCUMENT NUMBER 258-2192-73. A COPY OF THIS DOCUMENT IS AVAILABLE THROUGH THE DEP WEBSITE AT www.depweb.state.pa.us

ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS INVESTIGATIVE TECHNIQUES, INCLUDING BY NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPER OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

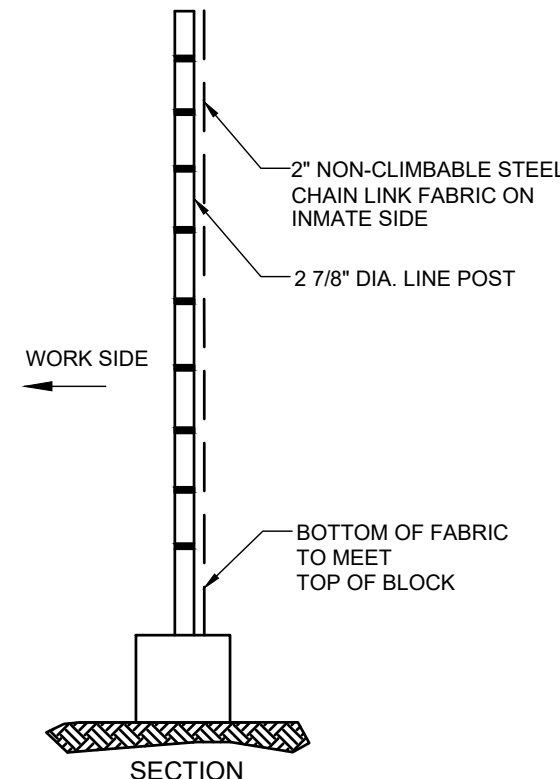
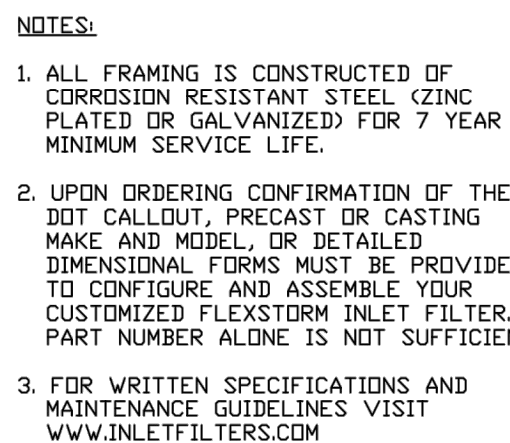
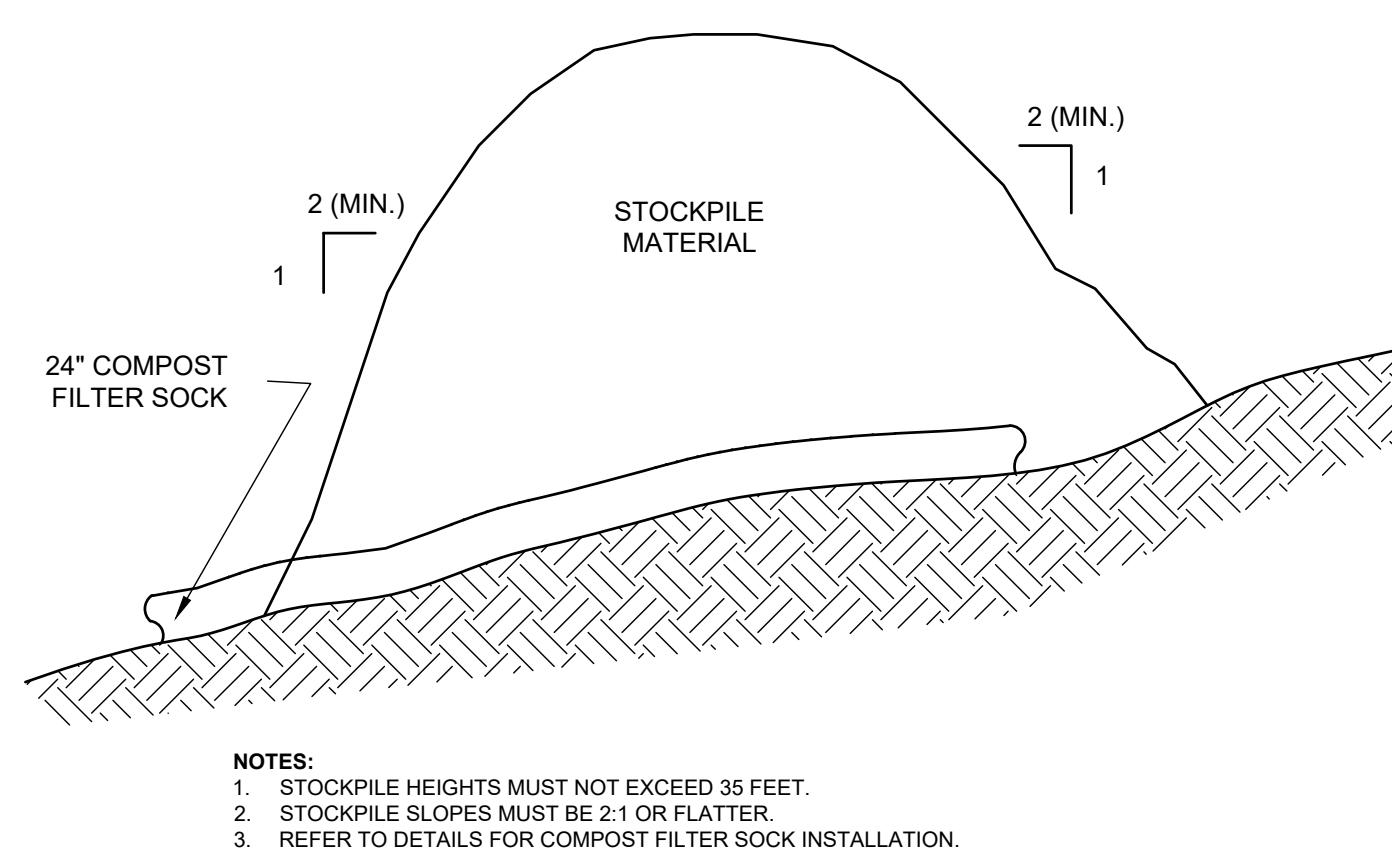
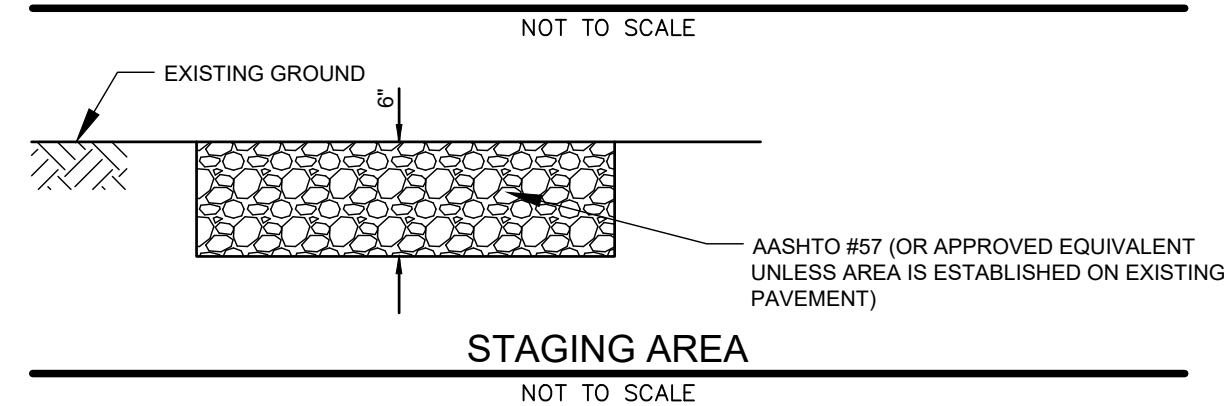
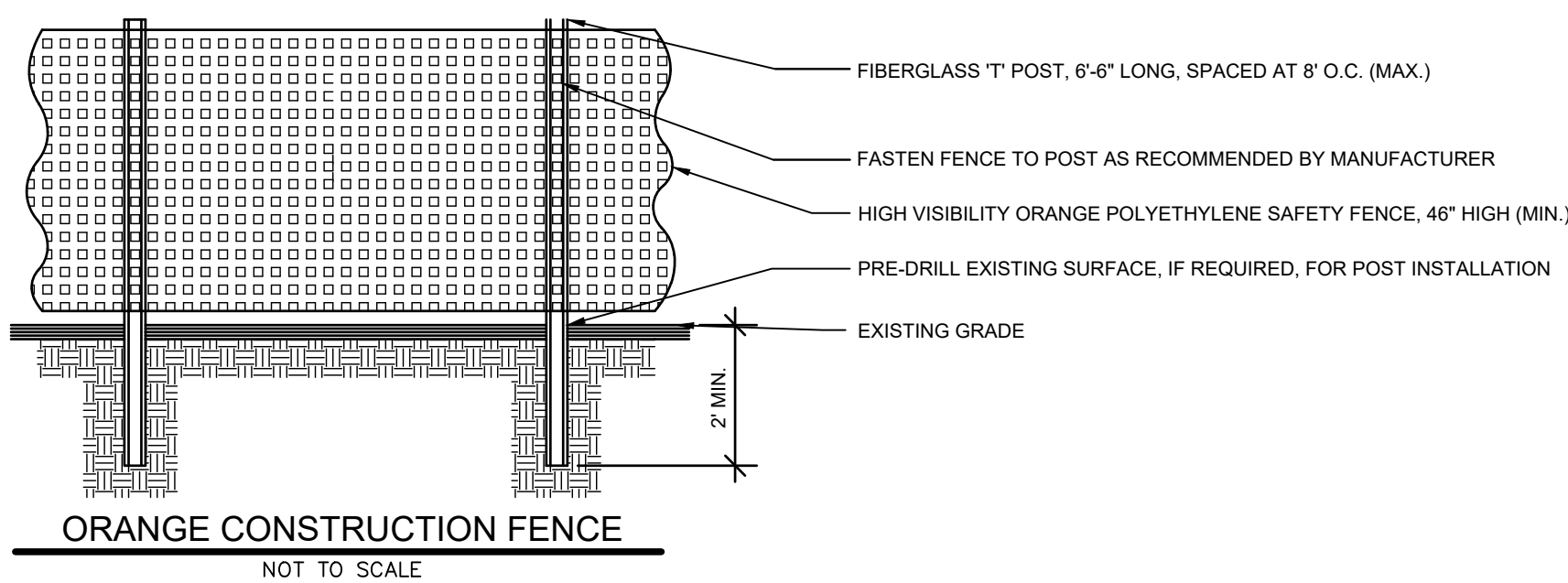
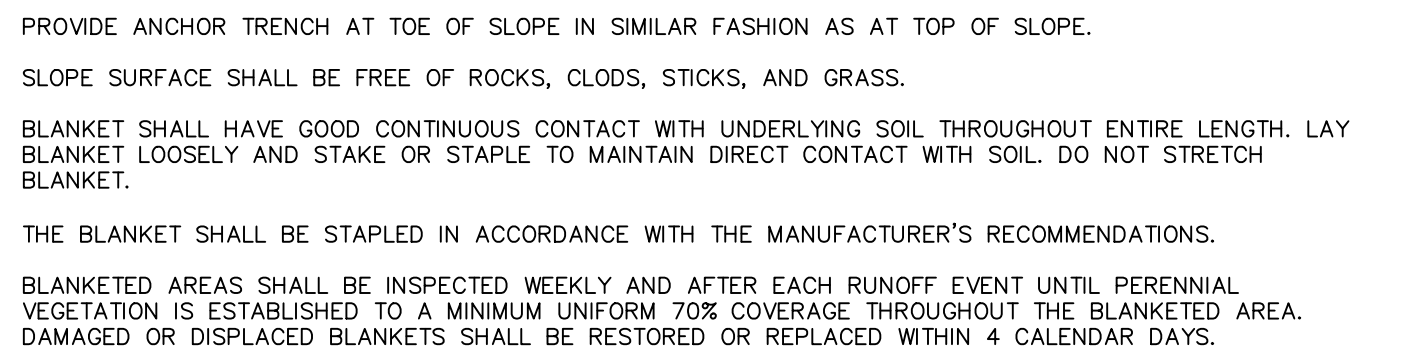
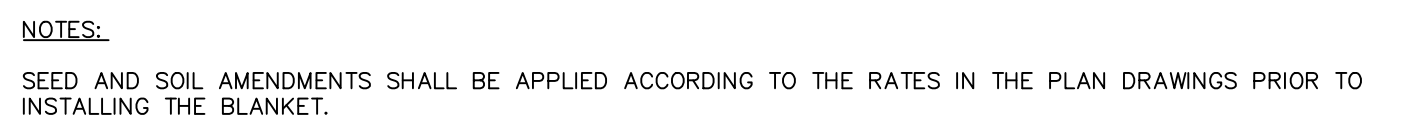
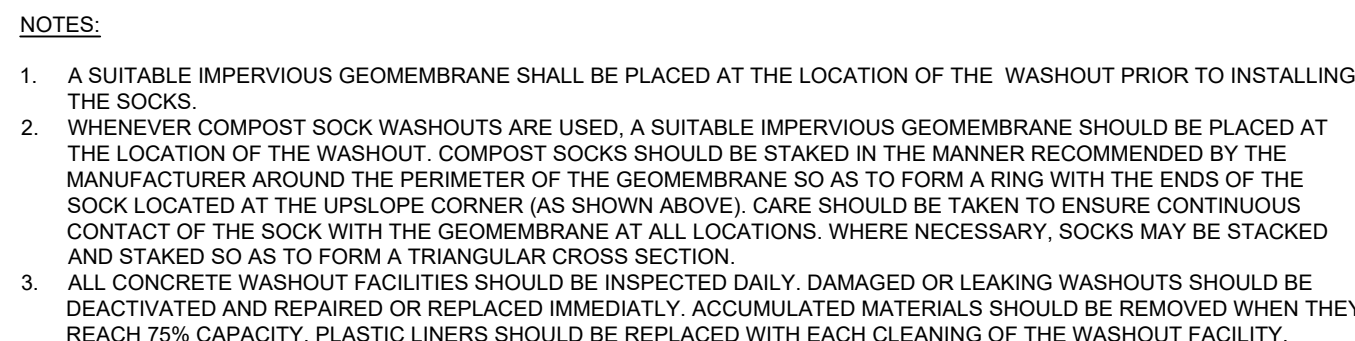
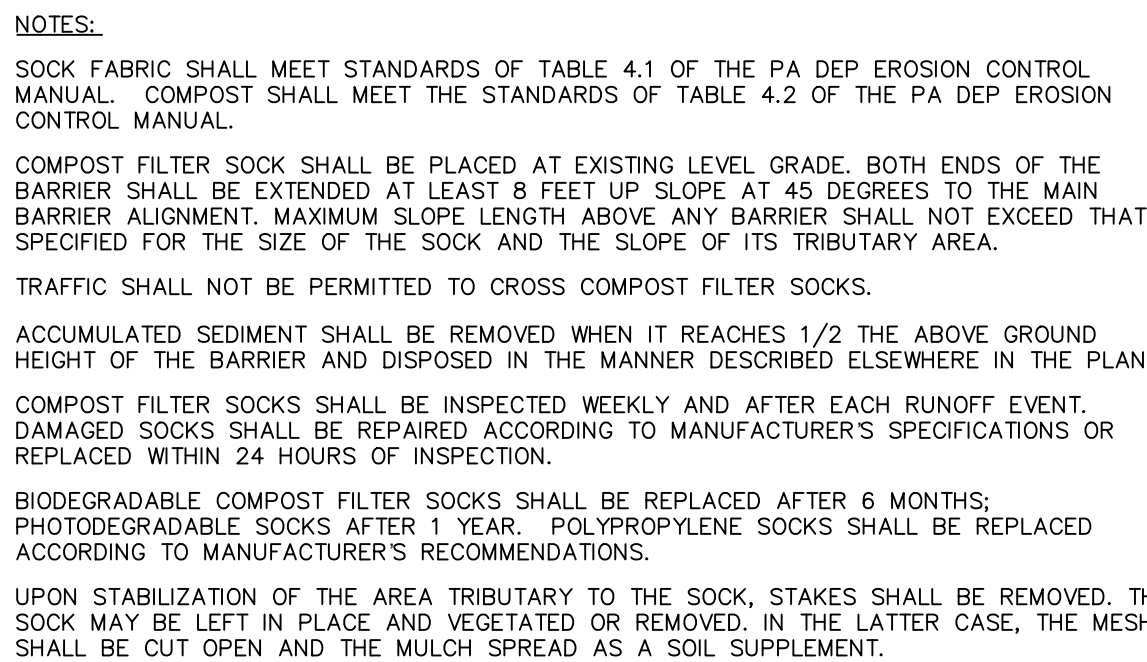
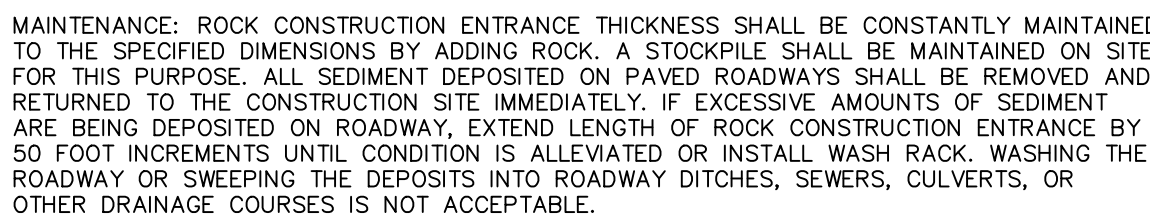
THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 et seq. AND 287.1 et seq.

CONSTRUCTION WASTES INCLUDE, BUT NOT LIMITED TO:

- CONCRETE WASHOUT STATIONS
- COMPOST FILTER SOCKS

PERMANENT STABILIZATION OF THE ALL EXPOSED EARTH SURFACES AFTER THE COMPLETION OF THE SITE GRADING AND IMPROVEMENTS SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS:

1. AFTER INSTALLATION OF THE NEEDED SURFACE WATER CONTROL MEASURES, PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
2. OBTAIN SOILS TESTING FROM AN INDEPENDENT LABORATORY TO DETERMINE NECESSARY SOILS MODIFICATIONS.
3. IN THE ABSENCE OF SOILS TESTING, APPLY AGRICULTURAL GRADE LIMESTONE AT THE MINIMUM RATE OF SIX TONS LIMESTONE PER ACRE (276 LBS. PER 1,000 SQUARE FEET).
4. IN THE ABSENCE OF SOILS TESTING, WORK IN FERTILIZER AT THE RATE OF 1000 LBS. OF 10-20-20 OR EQUIVALENT PER ACRE.
5. SMOOTH AND FIRM SEEDED AREAS WITH CULTIPACKER, OR OTHER SIMILAR EQUIPMENT, PRIOR TO SEEDING.
6. APPLY SEED.
7. COVER GRASS SEEDS WITH 1/4 INCH OF TOPSOIL WITH SUITABLE EQUIPMENT.
8. APPLY STRAW MULCH AT A RATE OF 3.0 TON PER ACRE IMMEDIATELY AFTER SEEDING.
9. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER IN ORDER TO PREVENT CULLING. USE SOD AT THE DIRECTION OF THE TOWNSHIP ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
10. HYDROSEEDING SHALL BE AN ACCEPTABLE ALTERNATIVE TO THE ABOVE SEEDING WHEN PERFORMED IN ACCORDANCE WITH PENNDOT PUB. 408 SECTIONS 804 AND 805 AND APPROVED BY THE SITE ENGINEER.

[illegible]

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR PERMISSION FROM PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING OUT OF COURT, RESULTING THEREFROM.

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APPROVED BY	SRT

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1. THE INFILTRATION BASIN SHALL BE PROTECTED FROM COMPACTION DUE TO HEAVY EQUIPMENT OPERATION OR STORAGE OF FILL OR CONSTRUCTION MATERIAL.
2. INFILTRATION BASIN SHALL BE PROTECTED FROM SEDIMENTATION AT ALL TIMES DURING CONSTRUCTION. APPROPRIATE MEASURES ARE TO BE TAKEN IN THE EVENT OF SEDIMENT ENTERING AND CLOGGING THE INFILTRATION SCM.
3. SHOULD UNFAVORABLE CONDITIONS (I.E. GROUNDWATER AND/OR BEDROCK, ETC.) BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS OF THE INFILTRATION BASIN, THE DESIGN ENGINEER SHOULD BE CONTACTED TO ADDRESS SUCH ISSUES.
4. ALL CONSTRUCTION ACTIVITIES FOR THE INFILTRATION BASIN SHOULD OCCUR WITHIN A SHORT TIME PERIOD TO ENSURE THAT SILT AND SEDIMENT DO NOT ENTER THE TRENCH.
5. IF INSPECTION INDICATES THAT SOIL OR SEDIMENT HAS ENTERED ANY OF THE INFILTRATION BASIN AREA, APPROPRIATE MEASURES (I.E. CLEARING THE SOIL SEDIMENT FROM THE FABRIC, STONE BED, ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
6. AREAS THAT ARE ACCIDENTALLY COMPACTED OR GRADED SHALL BE REMEDIATED TO RESTORE SOIL COMPOSITION AND POROSITY. ADEQUATE DOCUMENTATION TO THIS EFFECT SHALL BE SUBMITTED FOR REVIEW BY THE MUNICIPAL ENGINEER.
7. ALL AREAS DESIGNATED FOR INFILTRATION SHALL NOT RECEIVE RUNOFF UNTIL THE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED FINAL STABILIZATION.
8. EXCAVATION FOR THE INFILTRATION BASIN SHALL BE PERFORMED WITH EQUIPMENT THAT WILL NOT COMPACT THE BOTTOM OF THE BASIN.
9. THE BOTTOM OF ALL INFILTRATION BASINS SHALL BE UNDISTURBED, UNCOMPACTED SUBGRADE, AND SCARIFIED.
10. THE INFILTRATION BASIN SHALL BE PLANTED WITH THE APPROPRIATE SEED MIXTURE AS SPECIFIED ON LANDSCAPE PLANS.
11. THE FOUNDATION OF THE EMBANKMENT SHALL BE STRIPPED AND GRUBBED TO A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL.
12. THE FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS.
13. SOILS ACCEPTABLE FOR EMBANKMENT CONSTRUCTION SHOULD BE LIMITED TO GC, CM, SC, SM, CL OR ML AS DESCRIBED IN ASTM-D-2481 (UNIFIED SOILS CLASSIFICATION). OTHER SOILS MAY BE ACCEPTABLE WITH APPROVAL OF THE DESIGN ENGINEER.
14. ALL BASIN EMBANKMENTS SHOULD BE COMPACTED BY SHEEPSFOOT OR PAD ROLLER. THE LOOSE LIFT THICKNESS SHOULD BE 8" OR LESS, DEPENDING ON ROLLER SIZE, AND THE MAXIMUM PARTICLE SIZE IS 6" OR LESS - 2/3 LIFT THICKNESS. EACH LIFT SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED IN TO A BALL IT WILL NOT CRUMBLE, BUT NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.

15. A KEY TRENCH, OR CUTOFF TRENCH, IS REQUIRED WITH A MINIMUM TRENCH DEPTH $\geq 2'$, MINIMUM WIDTH $\geq 4'$, MAXIMUM SIDE SLOPE STEEPNESS IS 1H:1V. THE KEY TRENCH SHALL BE CONSTRUCTED IN $\geq 6"$ TO $9'$ LAYERS AND COMPACTED TO 95% OF THE STANDARD PROCTOR.
16. THE EMBANKMENT CORE SHOULD BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS AND CONSTRUCTED TO THE DIMENSIONS SHOWN ON THE PLANS. THE CORE SHOULD BE COMPACTED WITH CONSTRUCTION EQUIPMENT, ROLLERS OR HAND TAMPERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. THE CORE SHOULD BE PLACED CONCURRENTLY WITH THE OUTER SHELL OF THE EMBANKMENT.
17. BACKFILL ADJACENT TO PIPES SHOULD BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED $4'$ IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT.
18. ANY SPRINGS ENCOUNTERED IN THE FOUNDATION AREA OF THE BASIN EMBANKMENT SHOULD BE DRAINED TO THE OUTSIDE/DOWNSTREAM TOE OF THE EMBANKMENT WITH A DRAIN SECTION $2' \text{ BY } 2'$ IN DIMENSION COMPLETED WITH PENNDOT TYPE SAND, COMPACTED BY HAND TAMPER. NO GEOTEXTILES ARE TO BE USED AROUND THE BAND. THE LAST $3'$ OF THIS DRAIN AT THE OUTSIDE/DOWNSTREAM TOE OF THE EMBANKMENT SHALL BE FILLED WITH ASTHMA RE MATERIAL. OTHER METHODS OF DRAINING SPRING DISCHARGES MAY BE ACCEPTED WITH APPROVAL OF THE DESIGN ENGINEER.
19. ALL EXPOSED EMBANKMENT SLOPES SHOULD BE LIMED, FERTILIZED, SEEDED AND MULCHED. PERMANENT VEGETATIVE GROUND COVER IN COMPLIANCE WITH 25 PA. CODE §102.22 (RELATING TO SITE STABILIZATION) SHOULD BE ESTABLISHED UPON COMPLETION OF BASIN CONSTRUCTION. OUTSIDE SLOPES SHOULD BE BLANKETED.



NOT TO SCALE

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

POST CONSTRUCTION
STORMWATER MANAGEMENT
DETAILS

BUCK'S COUNTY,
PA.

[illegible]

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

CS9502

SHEET 12 OF 102

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