

DRAWING LEGEND

PROPERTY LINE	
EXISTING CONTOUR/ELEVATION	
LEGAL R.O.W.	
EXISTING ROAD CENTERLINE	
EXISTING EDGE OF PAVEMENT	
EXISTING PAVEMENT MARKINGS	
EXISTING TREE LINE	
SOIL BOUNDARY	
EXISTING BUILDING	
SLOPES ≥ 15%	

SURVEY NOTES

- THIS PLAN REPRESENTS AN ACTUAL FIELD SURVEY BOUNDARY PERFORMED BY OTM, LLC ON OCTOBER 9, 2017 AND SUPPLEMENTAL FLOOD ELEVATIONS PERFORMED BY MCNEILL LAND SURVEYING, LLC ON FEBRUARY 16, 2018. THE STATE PLANE COORDINATE SYSTEM SOUTH ZONE, NAVD83 ELEVATION DATUM WAS USED.
- APPLICANT: ASB HOME IMPROVEMENTS, LLC
3310 STUMP HALL ROAD
COLLEGEVILLE, PA 19426
- PROPERTY KNOWN AS A.P.N. 43-00-16522-00-4, AS IDENTIFIED ON THE OFFICIAL TAX MAPS OF MONTGOMERY COUNTY, LOWER PROVIDENCE TOWNSHIP, COMMONWEALTH OF PENNSYLVANIA.

UTILITY NOTES

THE FOLLOWING COMPANIES WERE NOTIFIED BY THE PENNSYLVANIA ONE CALL SYSTEM (1-800-242-1776) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREIN IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST.

UTILITY COMPANY	PHONE NUMBER
AUDUBON WATER COMPANY	610-630-1200
PECO	215-956-3220
VERIZON	215-963-6000
LOWER PROVIDENCE TOWNSHIP	610-539-8020
LOWER PROVIDENCE TOWNSHIP SEWER AUTHORITY	610-539-6161
AT&T	800-331-0500
COMCAST	855-809-7239

SOIL LIMITATION TABLE

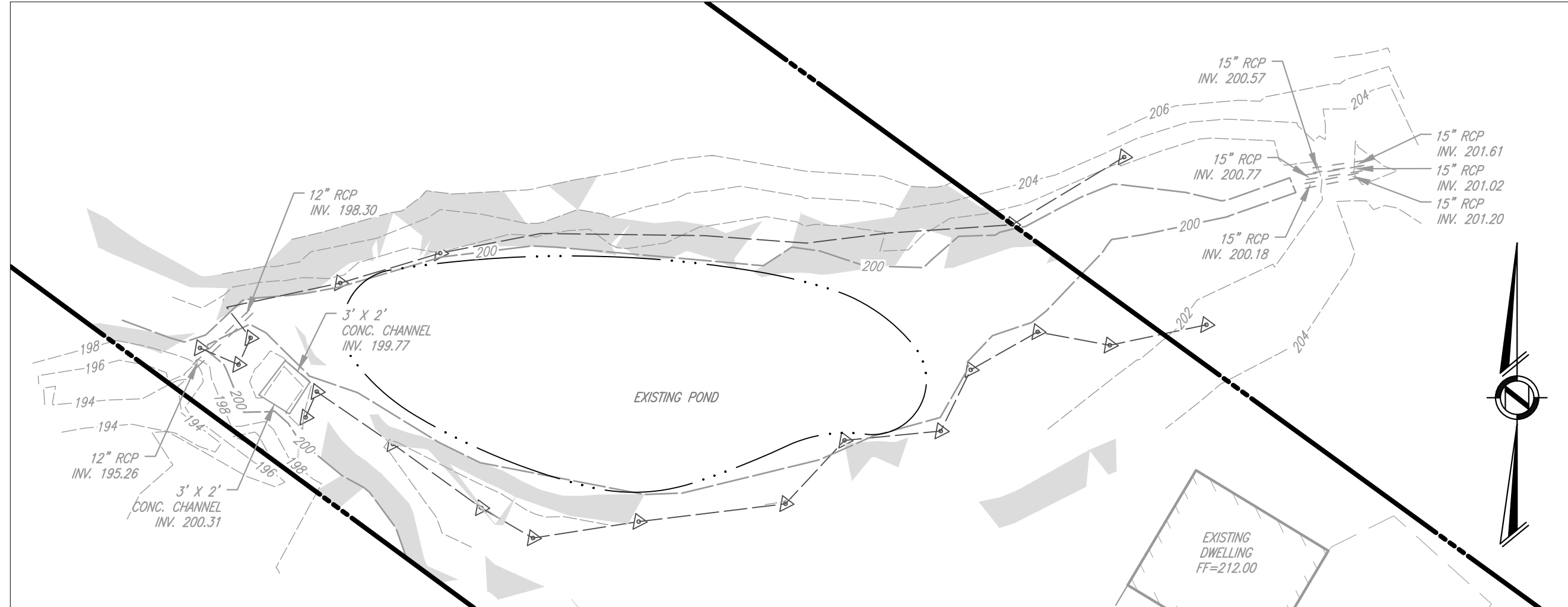
SOIL NAME	CUTBANKS CAVE	CORROSIVE TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/ SEASONAL HIGH WATER TABLE	HYDRO / HYDRO INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SPRINK - SNELL	POTENTIAL SINKHOLE	PONDING	WETNESS
LANSDALE	X	C	X						X	X	X	X	X			
PENN	X	C	X				X	X	X	X	X	X	X			X
READINGTON	X	C/S		X		X	X	X	X	X	X	X	X			X
ROWLAND	X	C/S		X	X	X	X	X	X	X	X	X	X			X
URBANA						X						X				

- CUTBANKS CAVE: CONTRACTOR REQUIRED TO FOLLOW OSHA REQUIREMENTS BY LAW. STANDARD FOR UTILITY TRENCH EXCAVATION, AS PROVIDED IN EROSION & SEDIMENT CONTROL NOTES ON THESE PLANS, SHALL ALSO BE FOLLOWED.
- CORROSIVE TO CONCRETE/STEEL: ALL CONCRETE/STEEL PROPOSED TO BE BURIED MUST BE DESIGNED TO INCORPORATE NONCORROSIVE MEASURES SUCH AS CORROSION RESISTANT CONCRETE, EPOXY-COATED REINFORCEMENT OR OTHER APPROVED METHODS AS REQUIRED BY SITE SOILS.
- DROUGHTY: SUPPLEMENTAL WATERING OF PROPOSED LANDSCAPING INCLUDING GROUNDCOVERS, SHRUBS, TREES AND PERENNIAL PLANTINGS, SHALL BE REQUIRED AS NECESSARY.
- EASILY ERODIBLE: EXPOSED SOIL AREAS SHALL BE KEPT TO A MINIMUM BY FOLLOWING THE CONSTRUCTION SEQUENCE AND CONSTRUCTION SPECIFICATIONS GIVEN IN THESE PLANS. SHOULD EROSION OCCUR THAT IS NOT ADDRESSED BY THE METHODS PROVIDED IN THESE PLANS, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER AND CONSERVATION DISTRICT.
- FLOODING: THE FLOODING POTENTIAL OF SOILS SHALL BE AVOIDED BY PROPER DRAINAGE OF THE SITE. A PUMPED WATER FILTER BAG MAY BE USED TO REMOVE WATER, IF NECESSARY. THE PUMPED WATER FILTER BAGS MUST E PLACED AT LEAST 50 FEET FROM ANY STREAMBANKS IN WELL VEGETATED, FLAT AREAS.
- DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: CONTRACTOR SHALL EMPLOY CONSERVATION DISTRICT APPROVED DEWATERING TECHNIQUES SUCH AS PUMPED WATER FILTER BAGS TO DEWATER UTILITY TRENCHES AND BELOW GRADE EXCAVATIONS, AS NECESSARY. BASEMENTS IN AREAS OF HIGH WATER TABLE WILL REQUIRE SUMP PUMPS OUTLETTED TO STORMWATER MANAGEMENT FACILITIES.
- HYDROIC SOILS: LONG TERM IMPACTS TO HYDROIC SOILS SHOULD BE AVOIDED BY MINIMIZING VEHICULAR TRAFFIC IN SENSITIVE AREAS AND LIMITING CONSTRUCTION ACTIVITIES WHEN MOISTURE CONTENT IS HIGH.
- LOW STRENGTH / LANDSLIDE POTENTIAL: ALL BUILDINGS, PAVEMENTS AND OTHER STRUCTURES SHOULD BE DESIGNED BASED ON RECOMMENDATIONS OF A QUALIFIED GEOTECHNICAL PROFESSIONAL. PRECAUTIONS SHOULD BE TAKEN TO PREVENT SLOPE FAILURES DUE TO IMPROPER CONSTRUCTION PRACTICES. WHEN NECESSARY DUE TO SITE SPECIFIC SOIL INVESTIGATIONS AND/OR THE RECOMMENDATIONS OF A QUALIFIED GEOTECHNICAL PROFESSIONAL, ROAD AND STRUCTURE FILL MATERIAL SHALL BE IMPORTED.
- SLOW PERCOLATION: INFILTRATION FACILITIES SHALL NOT BE CONSTRUCTED IN AREAS OF SLOW PERCOLATION AS DETERMINED BY SITE SPECIFIC SOILS TESTING AND/OR RECOMMENDATIONS OF A GEOTECHNICAL PROFESSIONAL.
- PIPING: SOILS SUSCEPTIBLE TO PIPING MUST NOT BE USED IN EMBANKMENTS AND/OR DAMS.
- POOR SOURCE OF TOPSOIL: TOPSOIL SHALL BE AMENDED AS NECESSARY TO SUPPORT PROPOSED GROUNDCOVER AND LANDSCAPING. CLEAN TOPSOIL SHALL BE IMPORTED AS NECESSARY.
- FROST ACTION: ALL FOOTERS AND BURIED UTILITY CONDUITS MUST BE BELOW THE FROST LINE.
- PONDING: PROPER GRADING SHALL BE EMPLOYED TO AVOID PONDING AND DIRECT WATER AWAY FROM STRUCTURES. SHOULD PONDING OCCUR DURING CONSTRUCTION, A PUMPED WATER FILTER BAG SHALL BE USED PER THE SPECIFICATIONS ON THESE PLANS OR OTHER METHODS AS APPROVED BY THE COUNTY CONSERVATION DISTRICT.
- WETNESS: WETNESS MAY CAUSE SEPTIC TANK ABSORPTION FIELDS TO FUNCTION POORLY OR FAIL. WETNESS MAY CAUSE ISSUES WITH BASEMENTS, LANDFILLS AND EXCAVATIONS. PROPER GRADING AND HANDLING OF WET SOILS SHALL BE UNDERTAKEN TO AVOID ISSUES.

SOIL MAP UNIT LEGEND

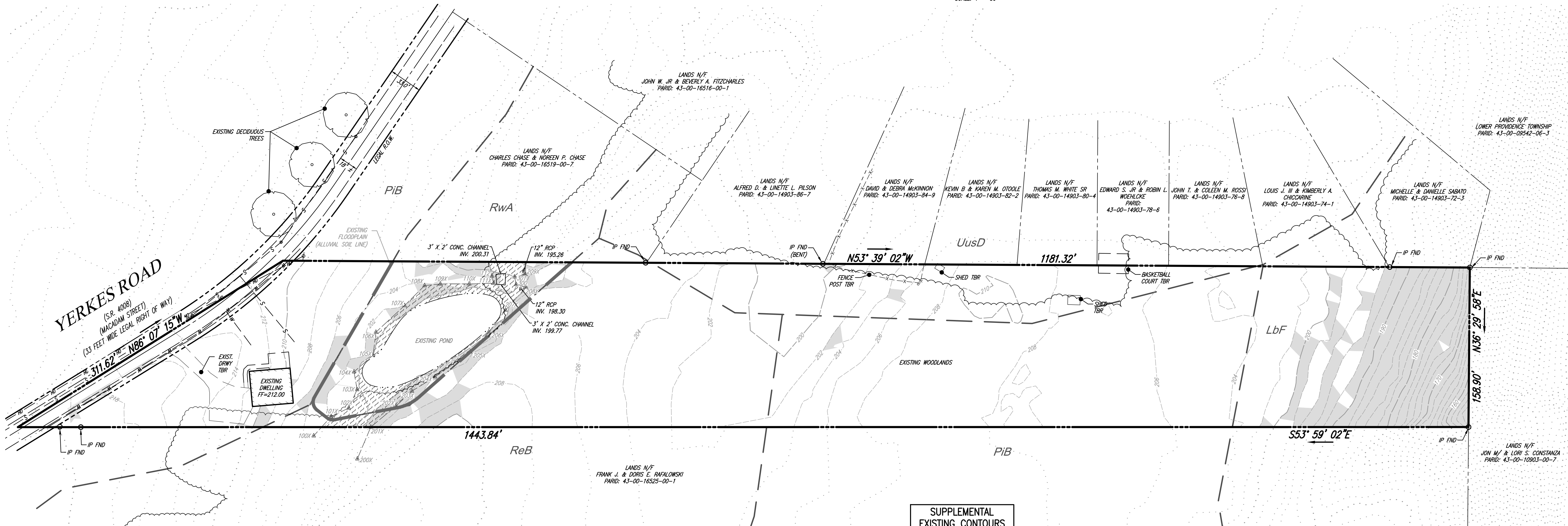
MONTGOMERY COUNTY, PENNSYLVANIA		
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC SOIL GROUP
LbF	LANSDALE LOAM, VERY STONY, 25 TO 60 PERCENT SLOPES	B
PIB	PENNS-LANSDALE COMPLEX, 3 TO 8 PERCENT SLOPES	B
ReB	READINGTON SILT LOAM, 3 TO 8 PERCENT SLOPES	C
RwA	ROWLAND SILT LOAM, 0 TO 3 PERCENT SLOPES	C
UusD	URBAN LAND-UDORTHENTS, SHALE AND SANDSTONE COMPLEX, 8 TO 25 PERCENT SLOPES	A

NOTE: THERE ARE NO KNOWN NATURALLY OCCURRING GEOLOGIC/SOIL CONDITIONS THAT HAVE THE POTENTIAL TO CAUSE POLLUTION LOCATED ON-SITE.

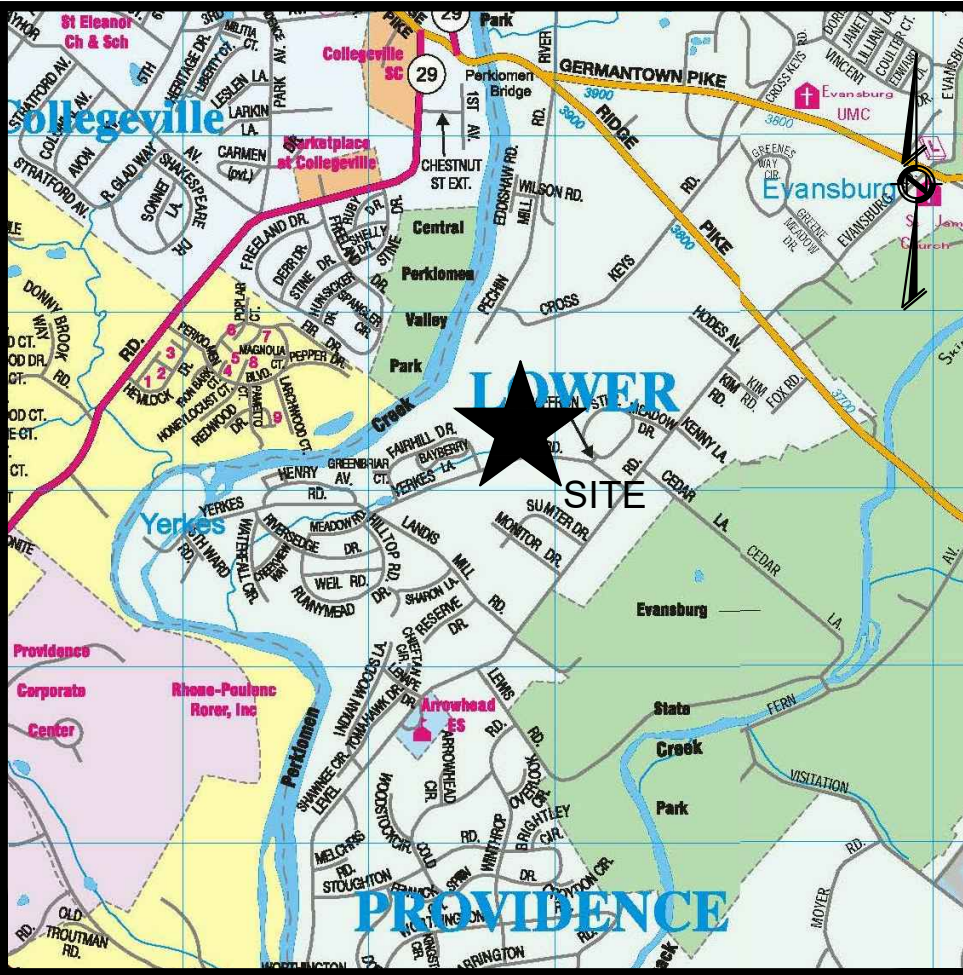
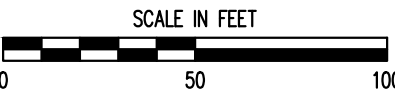


EXISTING POND DETAIL

SCALE: 1" = 30'



SUPPLEMENTAL
EXISTING CONTOURS
(SHOWN AS DOTS)
TAKEN FROM PASDA.



VICINITY MAP
NOT TO SCALE

CALL BEFORE YOU DIG!

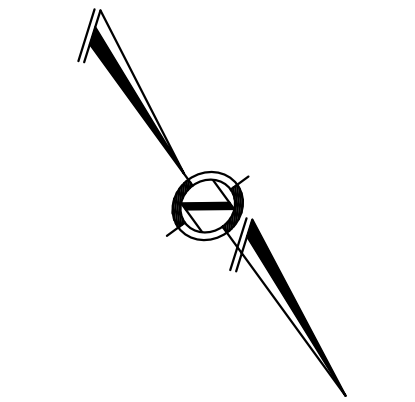
PENNSYLVANIA LAW REQUIRES
CONSTRUCTION PHASE AND WORKING
DAYS IN DESIGN STAGE - STOP CALL

PA1
1-800-242-1776
201909091641
POCS SERIAL NUMBER

R. A. GRAF

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 041814-E

REV.	DATE	COMMENT	BY
01	07/21/2019	PER TOWNSHIP START UPDATES	AFC



ASB HOME
IMPROVEMENTS
LLC

3829 YERKES ROAD
COLLEGEVILLE, PA 19426
PARCEL 43-00-16522-00-4
LOWER PROVIDENCE TOWNSHIP
MONTGOMERY COUNTY, PA

GRAF ENGINEERING, LLC
LAND DEVELOPMENT CONSULTING
410 WEST MAIN STREET, SUITE 202
P.O. BOX 110
LANSDALE, PA 19446
TEL: (267) 263-2054

SHEET TITLE:
EXISTING
FEATURES PLAN

3829 YERKES
ROAD

SCALE(H):
SCALE(V):
DRAWN BY: AFC
CHECKED BY: RAG
DATE: 10/15/2018
PROJECT No.: G17.016

SHEET No.
2
OF 6

DRAWING LEGEND

PROPERTY LINE	
EXISTING EDGE OF PAVEMENT	
EXISTING DRIVEWAY	
EXISTING SANITARY SEWER	
EXISTING SANITARY LATERAL	
EXISTING STORM SEWER	
EXISTING OVERHEAD WIRES	
EXISTING WATER	
PROPOSED DRIVEWAY	
EXISTING CONTOUR/ELEVATION	
PROPOSED CONTOUR/ELEVATION	
EXISTING TREELINE	
PROPOSED TREELINE	
EXISTING INLET	
EXISTING MANHOLE	
EXISTING UTILITY POLE	
PROPOSED SANITARY LATERAL	
PROPOSED WATER LATERAL	

GRADING & UTILITY NOTES

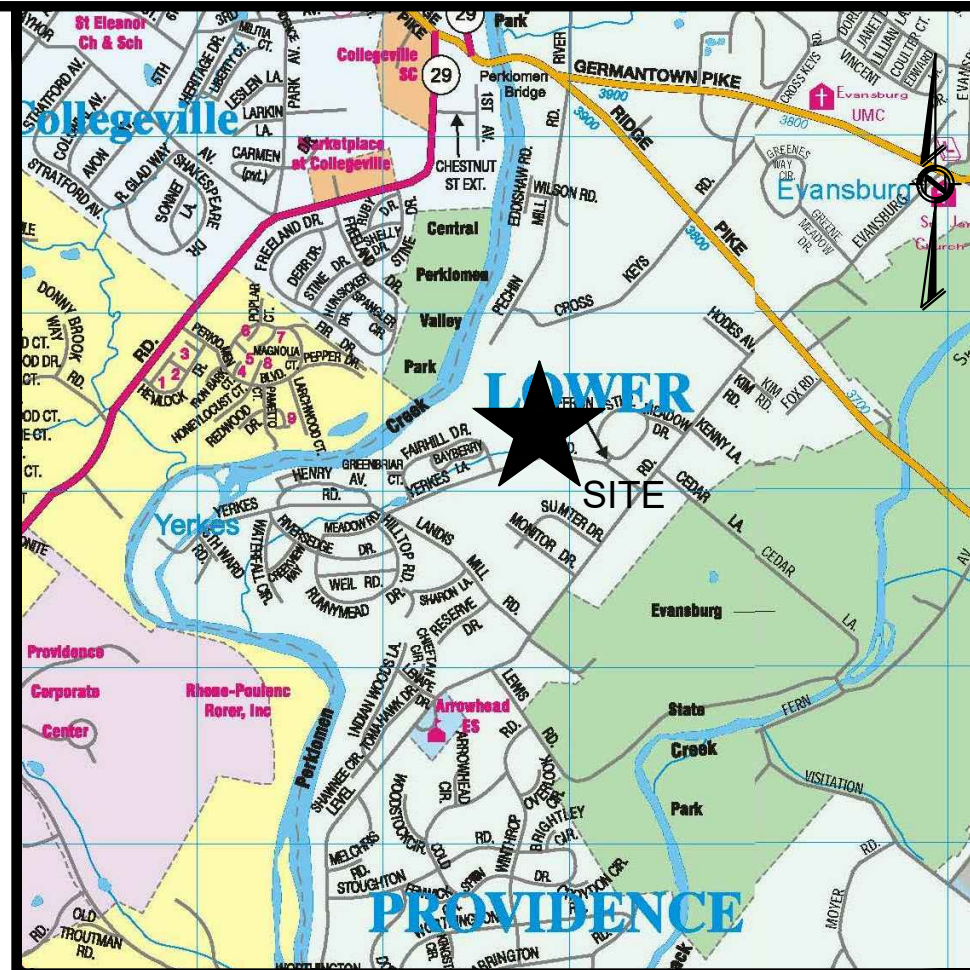
1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL BE NO MORE THAN 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS.
2. ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN CONFORMANCE WITH PENNDOT PUBLICATION 408, OR TOWNSHIP STANDARDS.
3. ALL SANITARY SEWER CONSTRUCTION WILL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE AUTHORITY SPECIFICATIONS.
4. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER OF RECORD. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UPGRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND INSTALLATIONS SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.
6. SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL, COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
7. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. SERVICE SIZES TO BE DETERMINED BY ENGINEER.
8. CONTRACTOR TO CONFIRM THE HORIZONTAL LOCATION AND VERTICAL ELEVATION OF UTILITIES BEING CROSSED OR CONNECTED INTO PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD SHALL BE INFORMED IN WRITING OF ANY DISCREPANCIES OR CLEARANCE ISSUES PRIOR TO PROCEEDING WITH CONSTRUCTION.
9. ALL STORMWATER PIPING SHALL BE RCP PIPE, UNLESS OTHERWISE NOTED.
10. THE MINIMUM SLOPE IN GRASSED AREAS SHALL NOT BE LESS THAN 2% AND THE MINIMUM IN PAVED AREAS SHALL NOT BE LESS THAN 1%.
11. CLEAN CUTS AND CURB BOXES WITHIN THE PAVED AREAS MUST HAVE TRAFFIC LOADING FRAMES AND COVERS.
12. EROSION CONTROL MATTING SHALL BE PROVIDED ON ALL EARTH SLOPES AT 3:1 OR GREATER.
13. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITY LINES/MAINS PRIOR TO CONSTRUCTION.
14. ALL ELECTRIC, TELEPHONE AND COMMUNICATION SERVICES SHALL BE PROVIDED BY UNDERGROUND CABLES.
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ANY DEBRIS FROM THE SITE, AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF THE CONSTRUCTION.
16. UTILITY LINES SHALL HAVE A MINIMUM OF 10 FT HORIZONTAL OR 1.5 FT VERTICAL SEPARATION.
17. CONTRACTOR TO ENSURE COMPLIANCE WITH ADA REGULATIONS.
18. A MINIMUM OF 8 INCHES OF TOPSOIL SHALL BE PLACED ON ALL LAWN AREAS AND PLANTING AREAS. ALL SLOPES 3:1 OR GREATER WILL REQUIRE THE PLACEMENT OF AN APPROVED EROSION CONTROL BLANKET AFTER SEEDING TO PREVENT EROSION OF NEWLY GRADED AREAS.
19. ALL MATERIALS TO BE USED AND ALL CONSTRUCTION METHODS EMPLOYED SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD CONSTRUCTION AND MATERIAL SPECIFICATIONS FOR SANITARY SEWER EXTENSIONS FOR THE LOWER PROVIDENCE TOWNSHIP SEWER AUTHORITY.
20. NO PLANTING WILL BE DONE WITHIN TEN (10) FEET OF THE SANITARY SEWER LATERALS.

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	PLANTING SPREAD	MIN. PLANTING HEIGHT	REMARKS
SHADE TREES							
AR	3	ACER RUBRUM ARMSTRONG	ARMSTRONG RED MAPLE	2 1/2" CALIPER	5'-6'	12'-14'	B&B
NS	3	NYSSA SYLVATICA	BLACK TUPELO	2 1/2" CALIPER	5'-6'	12'-14'	B&B
	6	TOTAL					

LANDSCAPING COMPLIANCE TABLE

SALDO SECTION	REQUIREMENT	CALCULATIONS	LANDSCAPING REQUIRED	LANDSCAPING PROVIDED
123-52 SHADE TREES	ONE (1) SHADE TREE AT INTERVALS OF NO LESS THAN 40 FEET AND NO MORE THAN 50 FEET ALONG BOTH SIDES OF ALL NEW OR EXISTING STREETS	- YERKES ROAD FRONTAGE = 285 FEET - 285 FEET / 50 FEET = 6 TREES	6 TREES ALONG YERKES ROAD FRONTAGE	6 SHADE TREES ALONG YERKES ROAD FRONTAGE

VICINITY MAP
NOT TO SCALE

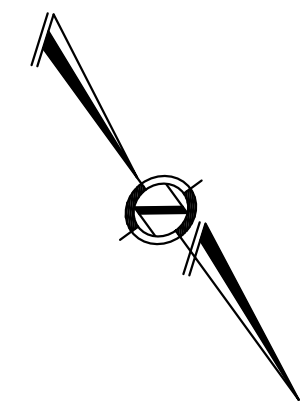
CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES
3 DAYS ADVANCE NOTICE
CONSTRUCTION PHASE AND WORKING
DAYS IN DESIGN STAGE - STOP CALLPA1
1-800-242-1776
201909091641
POCS SERIAL NUMBER

R. A. GRAF

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE NO. 041814-E

REV.	DATE	COMMENT	BY
01	07/21/2019	PER TOWNSHIP START UPDATES	AFC

ASB HOME
IMPROVEMENTS
LLC3829 YERKES ROAD
COLLEGEVILLE, PA 19426
PARCEL 43-00-14903-00-4
LOWER PROVIDENCE TOWNSHIP
MONTGOMERY COUNTY, PAGRAF ENGINEERING, LLC
LAND DEVELOPMENT CONSULTING
410 WEST MAIN STREET, SUITE 202
P.O. BOX 110
LANSDALE, PA 19446
TEL: (267) 263-2054

SHEET TITLE:

GRADING & UTILITY
PLAN3829 YERKES
ROAD

SCALE(H):

SCALE(V):

DRAWN BY:

CHECKED BY:

DATE:

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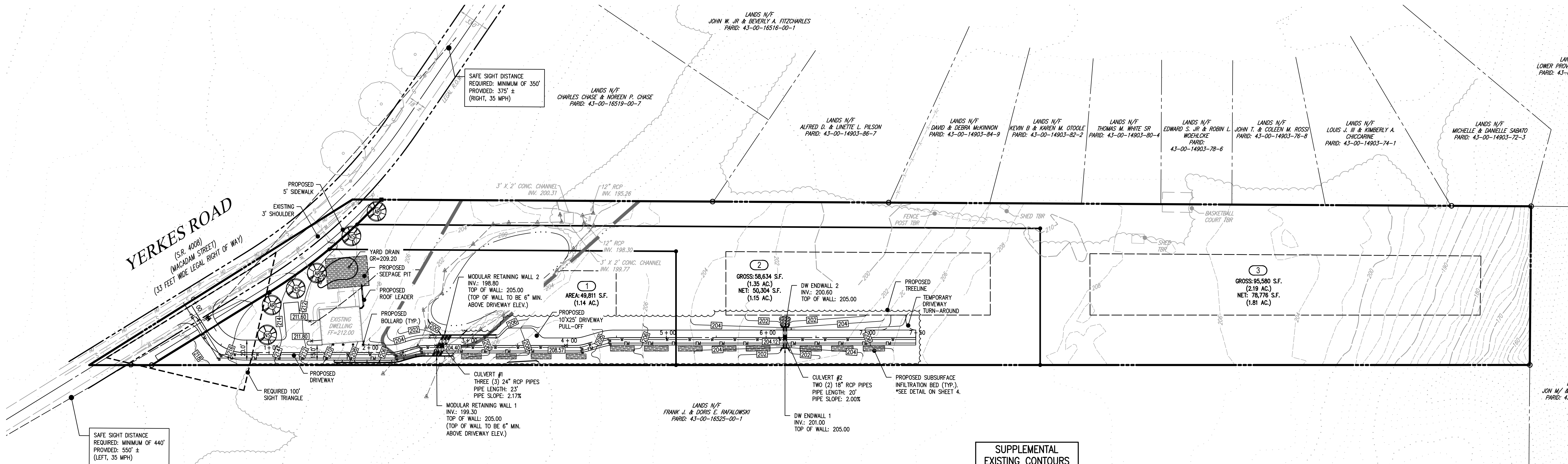
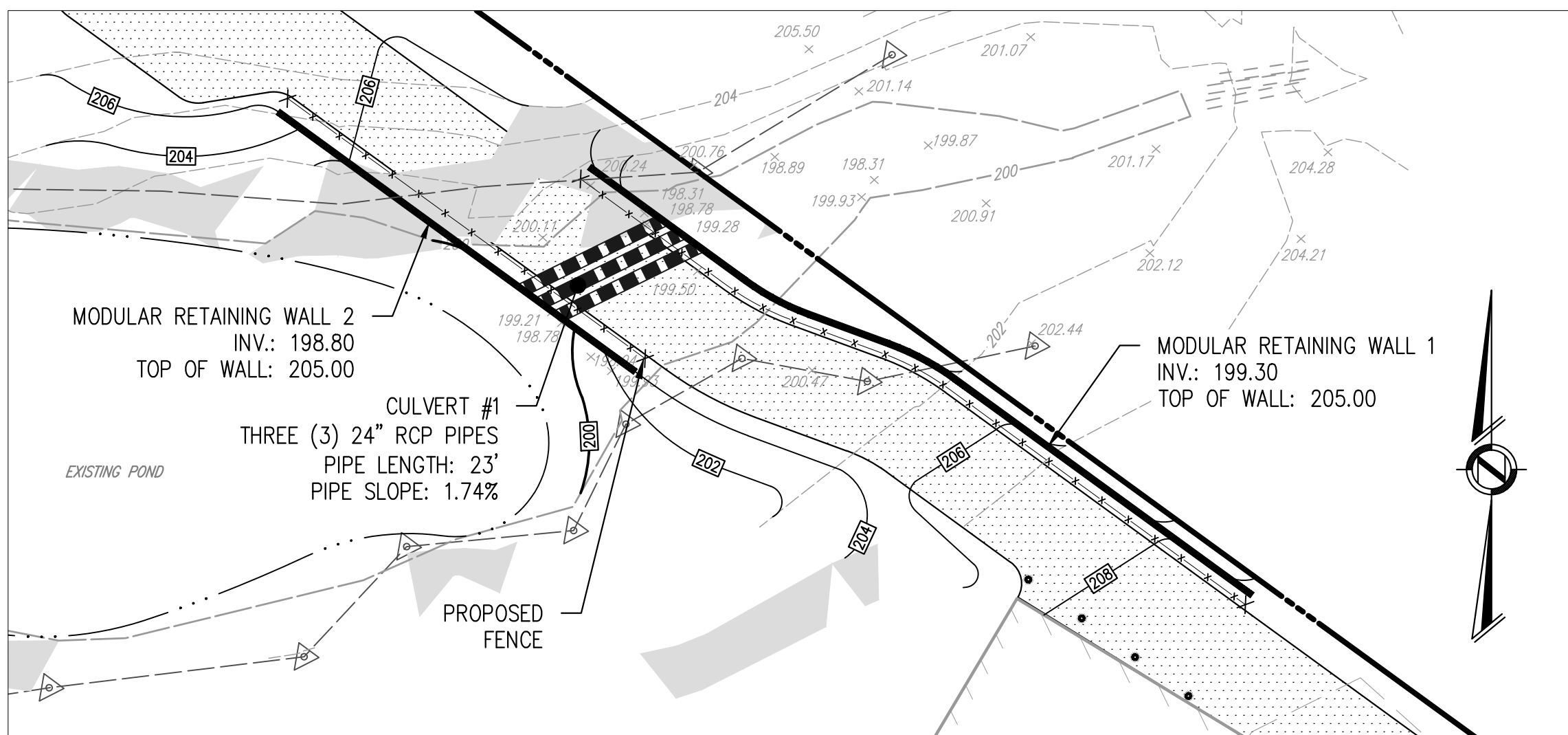
AFC

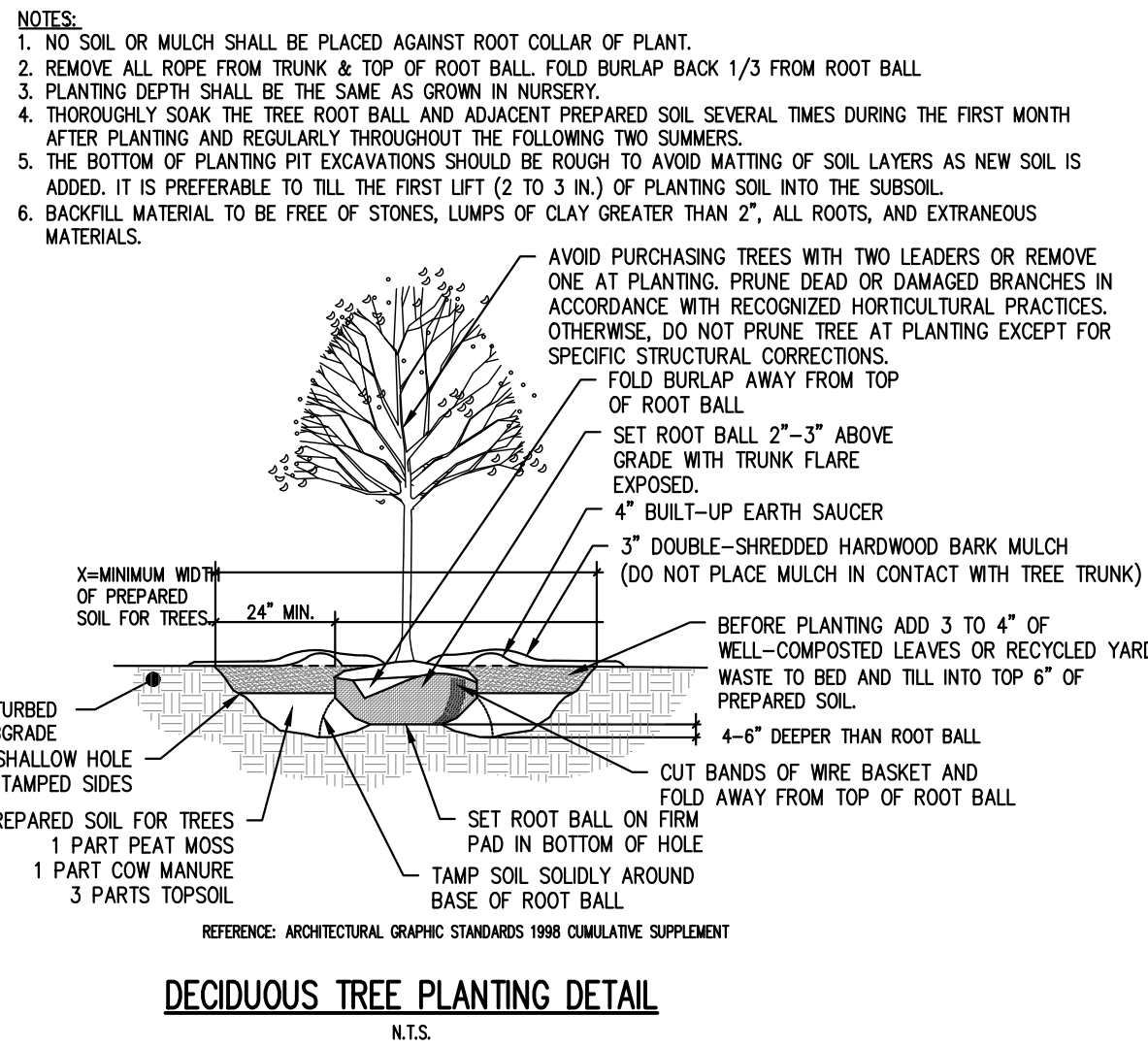
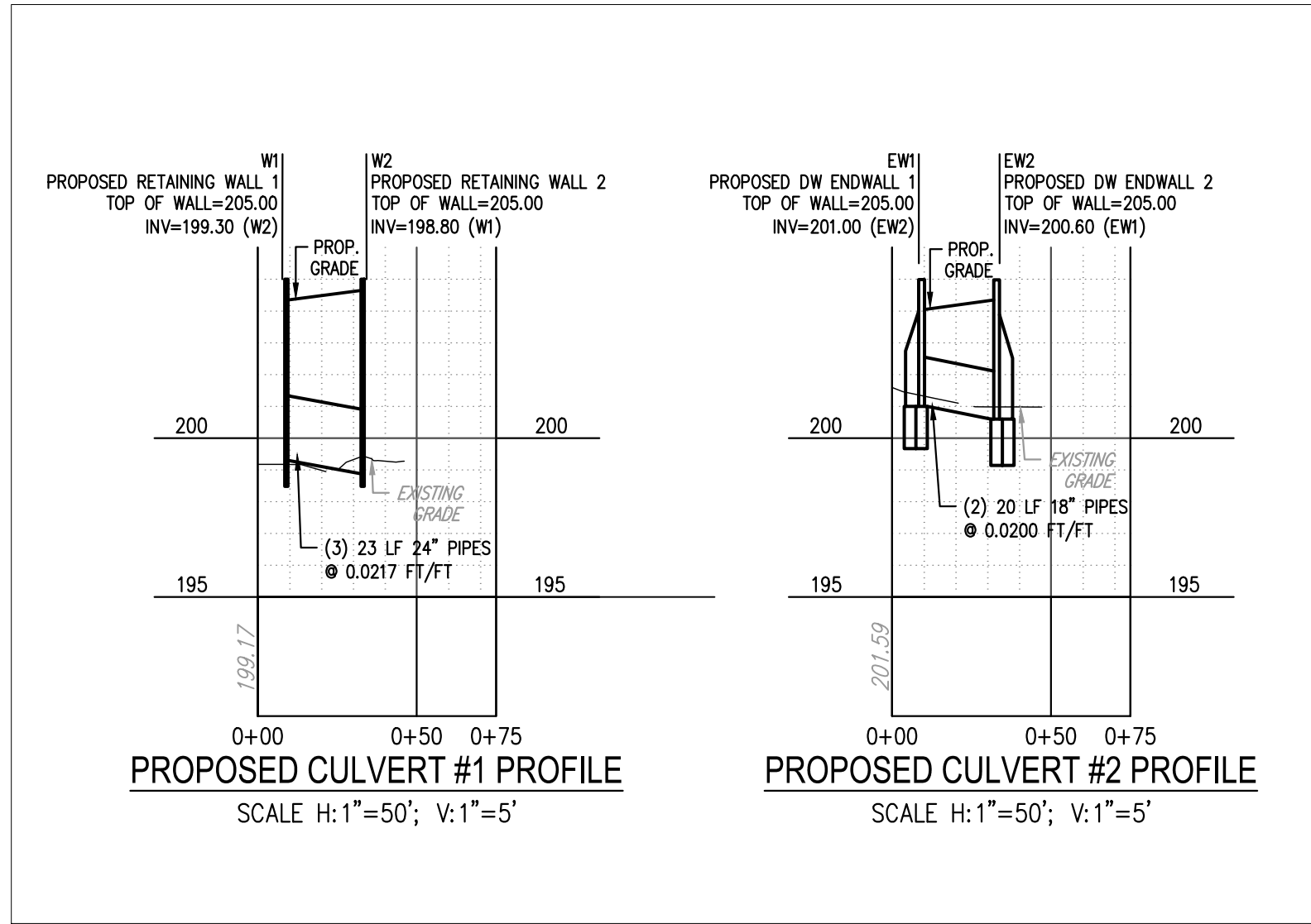
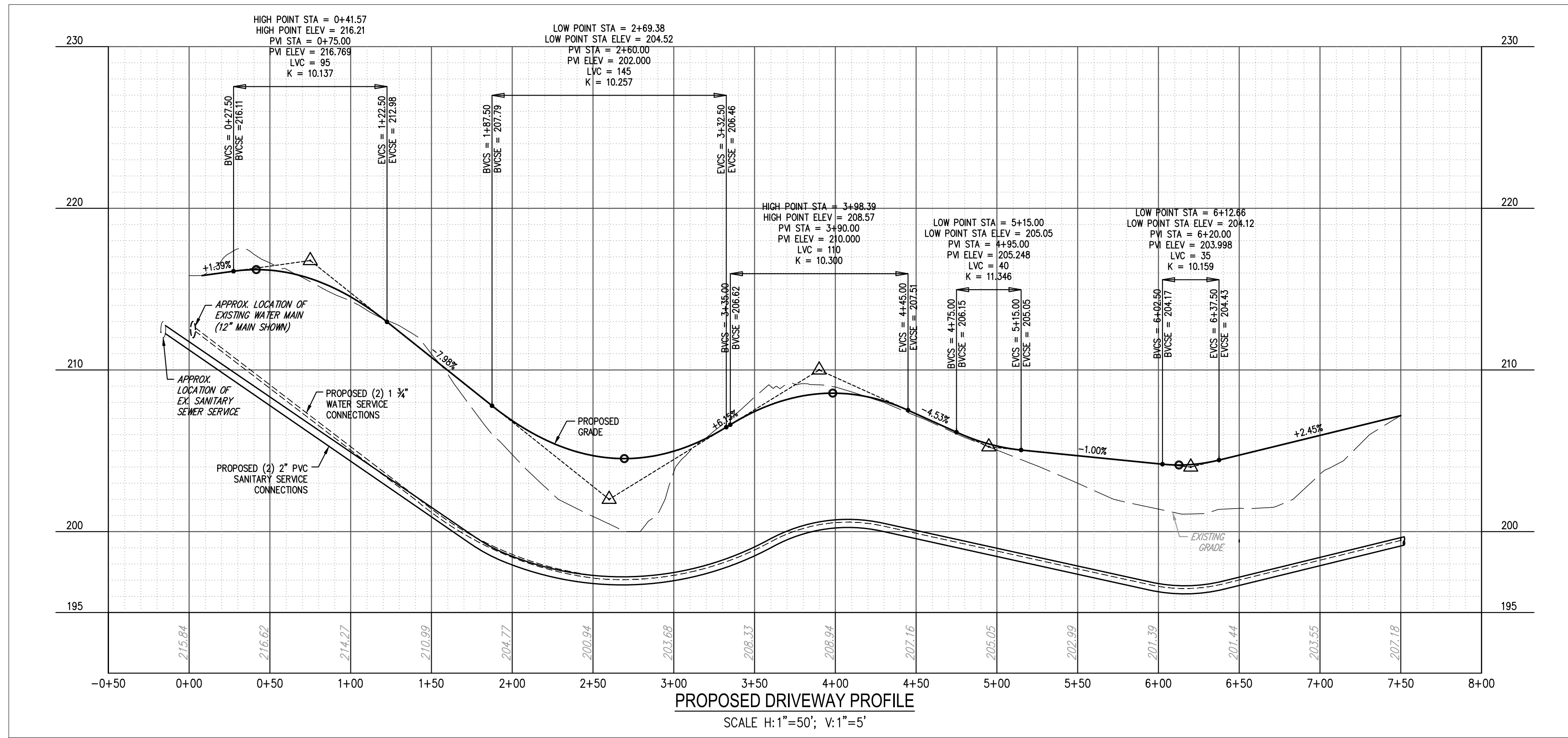
RAG

10/15/2018

G17.016

OF 6

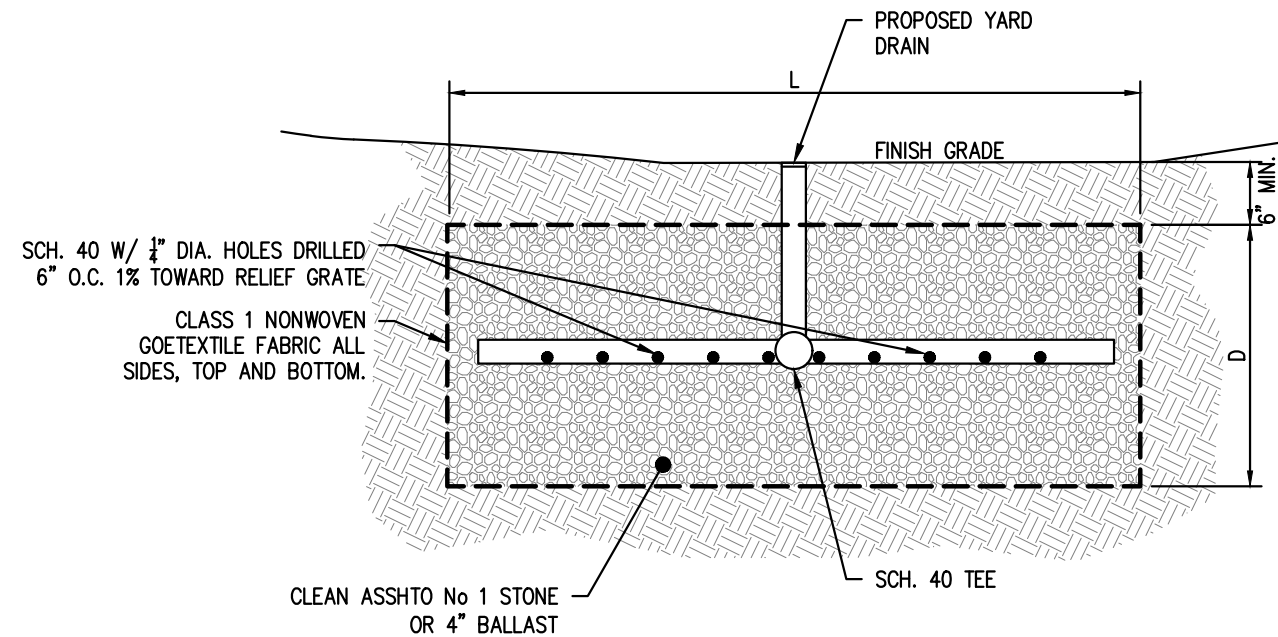
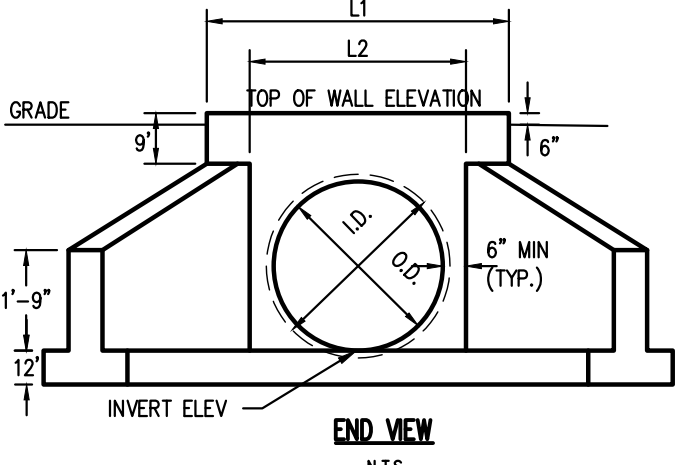
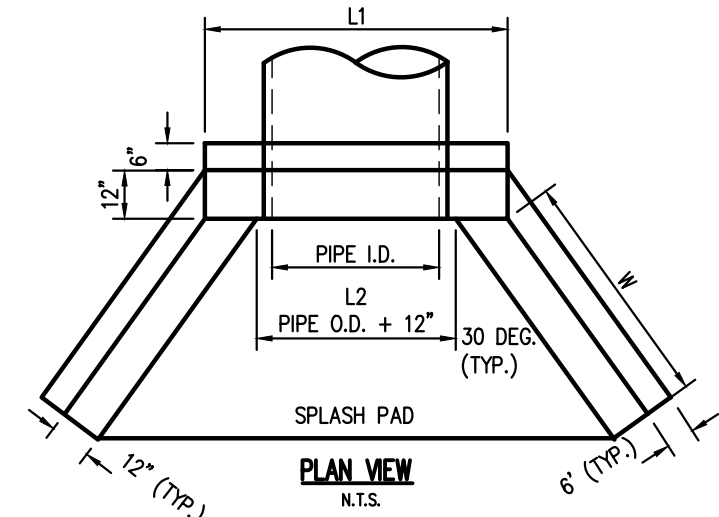
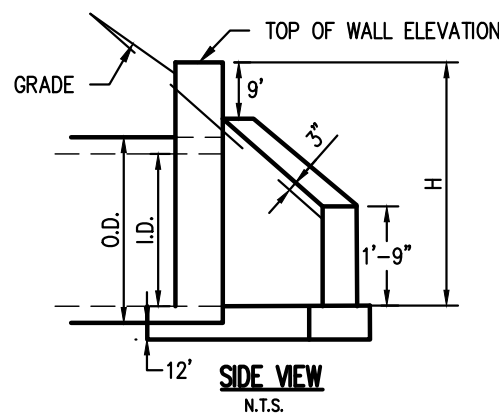
SUPPLEMENTAL
EXISTING CONTOURS
(SHOWN AS DOTS)
TAKEN FROM PASDA.CULVERT DETAIL
SCALE: 1" = 30'SCALE IN FEET
0 50 100



TYPE D-W ENDWALL SCHEDULE OF DIMENSIONS

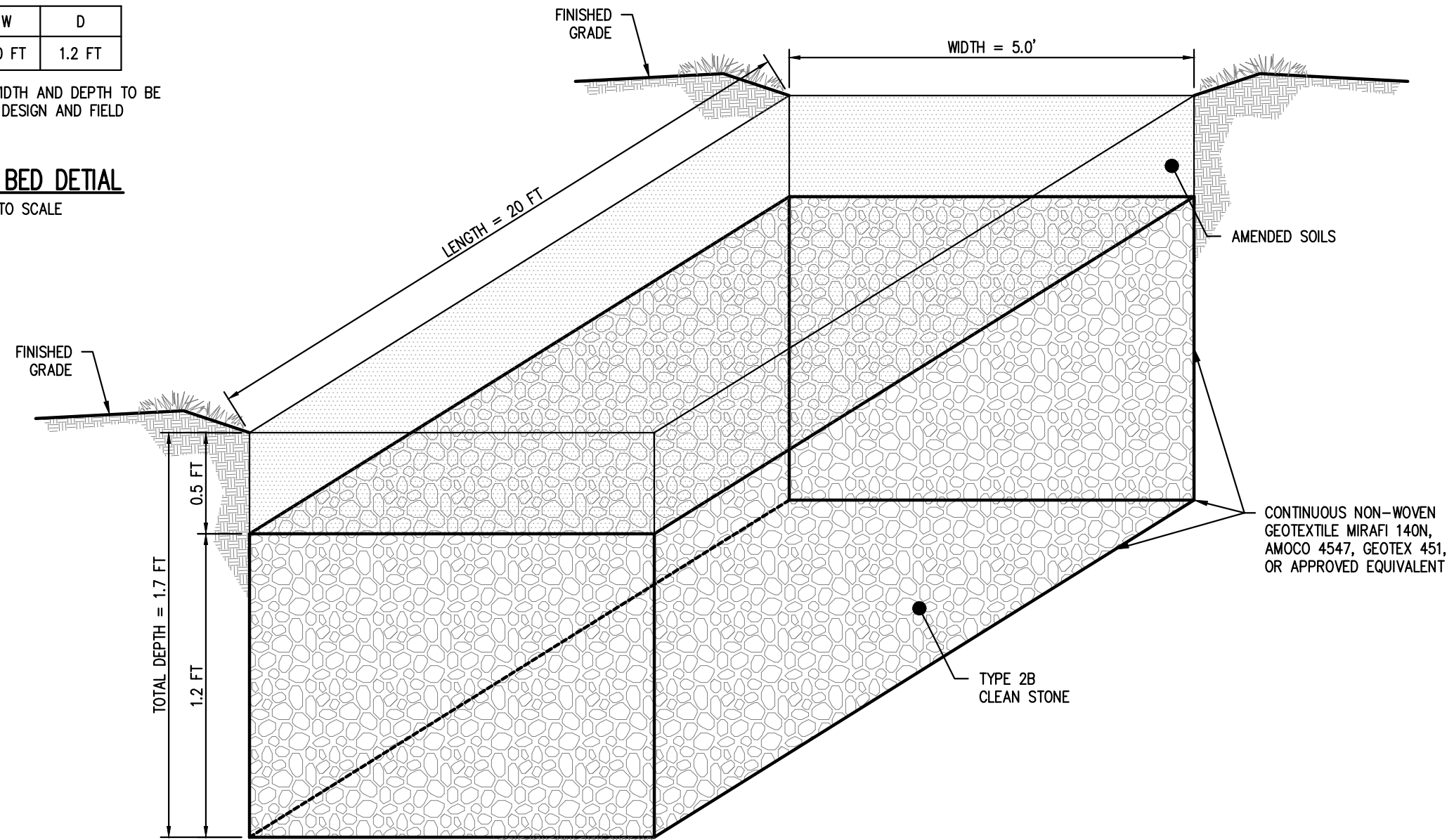
PIPE I.D.	L1	L2	W	H
15" & 18"	5'-4"	3'-0"	3'-0"	3'-0"
21" & 24"	5'-10"	3'-6"	3'-6"	3'-6"
27" & 30"	6'-4"	4'-0"	4'-0"	4'-0"
36"	7'-0"	4'-8"	4'-6"	4'-8"
42"	7'-7"	5'-3"	5'-9"	5'-3"
48"	8'-2"	5'-10"	7'-0"	5'-10"
54"	8'-9"	6'-5"	8'-0"	6'-5"
60"	9'-4"	7'-0"	9'-3"	7'-0"
66"	9'-11"	7'-7"	10'-8"	7'-7"
72"	10'-8"	8'-2"	11'-6"	8'-2"

- NOTES
1. PROVIDE MATERIALS & WORKMANSHIP IN ACCORDANCE WITH PUB. 408 SECTION 605 AND PUB. 72 RC-31 LATEST EDITIONS.
 2. USE CLASS A CONCRETE
 3. ENDWALL MAY BE STONE FACED AS REQUIRED
 4. FOR SPECIFIC STRUCTURE ELEVATION INFORMATION REFER TO STRUCTURE SCHEDULE ON APPROPRIATE SHEET ATTACHED TO THIS PLAN SET

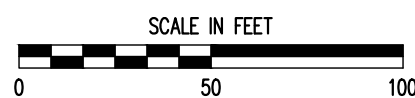


L	W	D
42 FT	30 FT	1.2 FT

NOTE: LENGTH, WIDTH AND DEPTH TO BE DETERMINED PER DESIGN AND FIELD CONDITIONS.



NOTE: SCARIFYING OF THE EXISTING SUBGRADE MUST BE COMPLETED PRIOR TO THE PLACEMENT OF THE PROPOSED FABRIC AND STONE.



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PA1
INCORPORATED
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ASB HOME
IMPROVEMENTS
LLC

3829 YERKES ROAD
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PARCEL 43-00-16522-00-4
LOWER PROVIDENCE TOWNSHIP
MONTGOMERY COUNTY, PA

GRAF ENGINEERING, LLC
LAND DEVELOPMENT CONSULTING
410 WEST MAIN STREET, SUITE 202
P.O. BOX 110
LANSDALE, PA 19446
TEL: (267) 263-2054

SHEET TITLE:
CONSTRUCTION
DETAILS &
PROFILES

3829 YERKES
ROAD

SCALE(H):
SCALE(V):
DRAWN BY: AFC
CHECKED BY: RAG
DATE: 10/15/2018
PROJECT NO.: G17.016

SHEET No.
4
OF 6

GENERAL NOTES

1. THIS PLAN REPRESENTS AN ACTUAL FIELD SURVEY BOUNDARY PERFORMED BY OTM, LLC ON OCTOBER 9, 2017 AND SUPPLEMENTAL POND ELEVATIONS PERFORMED BY MCNEILL LAND SURVEYING, LLC ON FEBRUARY 16, 2018. THE STATE PLANE COORDINATE SYSTEM SOUTH ZONE, NAVD88 ELEVATION DATUM WAS USED.
2. APPLICANT: ASB HOME IMPROVEMENTS, LLC
3310 STUMP HALL ROAD
COLLEGEVILLE, PA 19426
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SOIL MAP UNIT LEGEND		
MONTGOMERY COUNTY, PENNSYLVANIA		
MAP UNIT SYMBOL	MAP UNIT NAME	HYDROLOGIC SOIL GROUP
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NOTE: THERE ARE NO KNOWN NATURALLY OCCURRING GEOLOGIC/SOIL CONDITIONS THAT HAVE THE POTENTIAL TO CAUSE POLLUTION LOCATED ON-SITE.

SEQUENCE OF CONSTRUCTION

IN ORDER TO KEEP EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION TO AN ABSOLUTE MINIMUM, ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING STAGING OF EARTHMOVING ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, PERMITTEES, CO-PERMITTEES, OPERATORS, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENTATION CONTROL PLAN PREPARED, AND A REPRESENTATIVE OF THE MONTGOMERY COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST THREE DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITY, ALL CONTRACTORS INVOLVED IN THAT ACTIVITY SHALL NOTIFY THE PENNSYLVANIA ONE-CALL SYSTEM INC. 1-800-242-1776 TO DETERMINE ANY UNDERGROUND UTILITIES LOCATIONS. THE LICENSED PROFESSIONAL MUST BE ALLOWED TO OVERSEE INSTALLATION OF STRUCTURAL PCSM BMP'S AS DENOTED BY **CRITICAL STAGE** IN THE FOLLOWING SEQUENCE.

- THE LIMITS OF DISTURBANCE SHALL BE DELINEATED WITH SURVEY STAKES OR SIMILAR, PRIOR TO ANY DISTURBANCE AND SHALL NOT BE DISTURBED DURING SITE CONSTRUCTION EXCEPT FOR TEMPORARY IMPACTS FOR MITIGATION OR RESTORATION PER PLANS.
- INSTALL THE ROCK CONSTRUCTION ENTRANCE AT THE SITE ENTRANCE UNTO YERKES ROAD (PER STANDARD DETAIL #3-1) TO SERVE AS ACCESS TO THE SITE.
- ORANGE CONSTRUCTION FENCING SHALL BE INSTALLED AT THE ENTIRE LIMIT OF DISTURBANCE. PLACE COMPOST FILTER SOCK AS DELINEATED ON THE PLANS AND DOWNSIDE OF ALL EXCAVATED OR TOPSOIL STOCKPILING AREAS TO BE DISTURBED. INSTALL THE TREE PROTECTION FENCE AND THE CONCRETE WASHOUT FACILITY PER PLANS.
- **CRITICAL STAGE** INSTALLED THE PROPOSED CULVERTS.
- BEGIN BULK EXCAVATION ACTIVITIES FOR THE PROPOSED ACCESS DRIVEWAY. STRIP TOPSOIL WITHIN AREAS OF PROPOSED EARTHWORK AND STOCKPILE ACCORDING TO PLANS. STABILIZE BY SPREADING 2"-3" OF TOPSOIL AND PROVIDING TEMPORARY SEEDING AS NECESSARY. CESSATION OF ACTIVITIES FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY SEEDING.
- INSTALL THE PROPOSED ACCESS DRIVEWAY INCLUDING AGGREGATE BASE AND BINDER COURSE.

- **CRITICAL STAGE** FINISH GRADE AND SPREAD TOPSOIL, SEED AND MULCH EACH AREA OF DISTURBANCE IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED. AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN (I.E. ANTICIPATE COMPLETION DATE AND SCHEDULE SEEDING), IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SF, PROPOSED TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDING AND MULCHED. PRIOR TO PLACING TOPSOIL, SUBSOIL SHALL BE SCARIFIED.
- **CRITICAL STAGE** INSTALL THE PROPOSED INFILTRATION TRENCHES AND SEEPAGE PIT. EXTREME CARE SHALL BE TAKEN DURING CONSTRUCTION OF PERMANENT STORMWATER FACILITIES TO MINIMIZE COMPACTION AND PREVENT SILTATION OF THE AREA.
- REMOVE TEMPORARY CONTROL MEASURES AFTER UNIFORM EROSION RESISTANT PERENNIAL VEGETATION HAS BEEN ESTABLISHED, MINIMUM OF UNIFORM COVERAGE OR A DENSITY OF 70% ACROSS THE DISTURBED AREA, TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION DURING RUNOFF EVENTS AND STABILIZATION OF THE SITE IS COMPLETE TO THE SATISFACTION OF THE MONTGOMERY COUNTY CONSERVATION DISTRICT. AREAS DISTURBED DURING THE REMOVAL OF THE CONTROLS MUST BE STABILIZED. THE MONTGOMERY COUNTY CONSERVATION DISTRICT AND WORCESTER TOWNSHIP SHALL BE NOTIFIED PRIOR TO REMOVAL OF ANY EROSION CONTROLS.
- UPON PERMANENT STABILIZATION OF EARTH DISTURBANCE ACTIVITY UNDER 25 PA. CODE § 102.22(o)(2) (RELATING TO PERMANENT STABILIZATION) AND INSTALLATION OF BMP'S IN ACCORDANCE WITH THE APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH 25 PA. CODE § 102.4 AND 102.8, THE PERMITTEE AND/OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION (N.O.T.) TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.

THERMAL IMPACTS

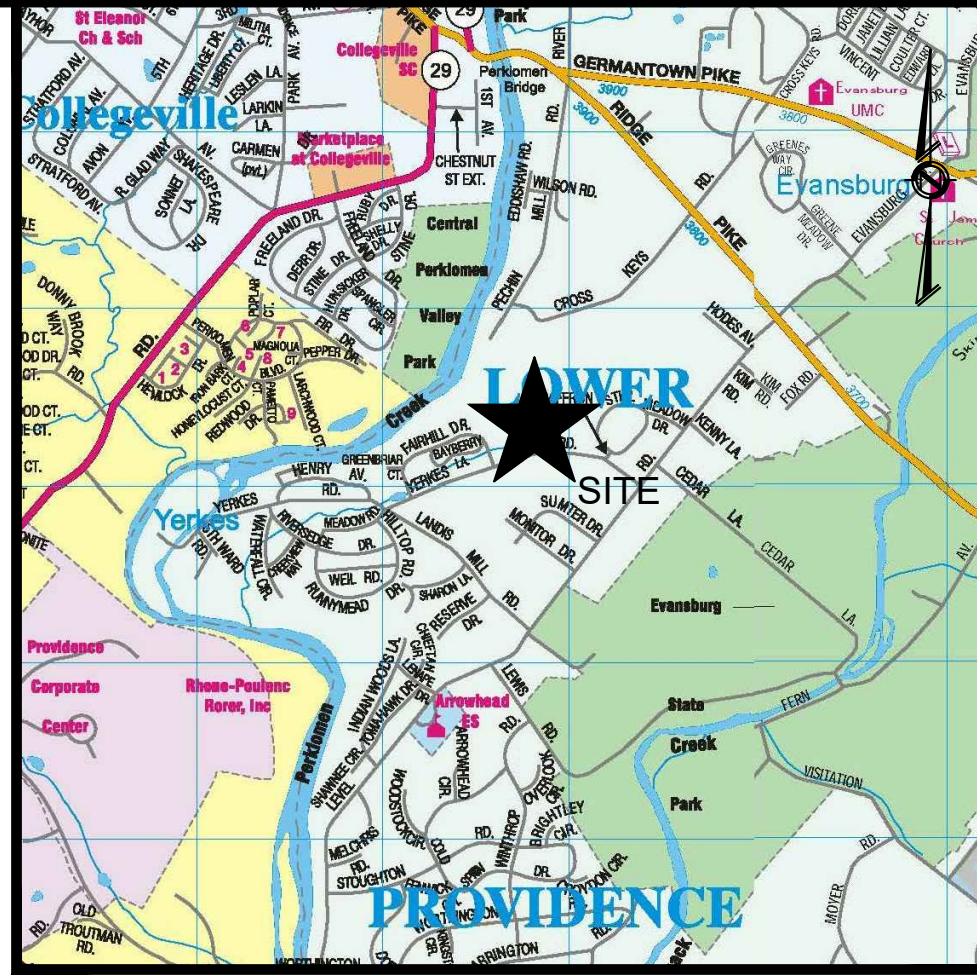
THERMAL IMPACTS FOR THE PROPERTY ARE BEING MINIMIZED BY THE INSTALLATION OF MAINTAINED LAWNS AND BASINS WITH EXTENSIVE PLANTINGS. THE PROPOSED DISTURBED AREA CURRENTLY IS COVERED WITH DENSE GRASS, MEADOW, AND TREES WHICH PROVIDE SOME SHADE FOR THE GROUND RUNOFF TRAVELING ALONG IT. STORMWATER ON SITE WILL BE COLLECTED MAINLY VIA INLETS TO ALLOW THE COOLING OF RUNOFF PRIOR TO REACHING THE BASIN DUE TO SHADING AND BEING UNDERGROUND. THE PROPOSED VEGETATION WILL PROVIDE SHADING OF THE RUNOFF PRIOR TO REACHING THE STORM SYSTEM AND WILL PROVIDE AN OPPORTUNITY FOR INFILTRATION AND PLANT UPTAKE OF THE RUNOFF. THREE BIO-RETENTION AREAS AND A BASIN ARE PROPOSED FOR VOLUME MANAGEMENT TO REDUCE HOLDING OF RUNOFF THAT MAY HEAT UP BY AN EXTENDED EXPOSURE OF THE SUN.

RECYCLING STATEMENT

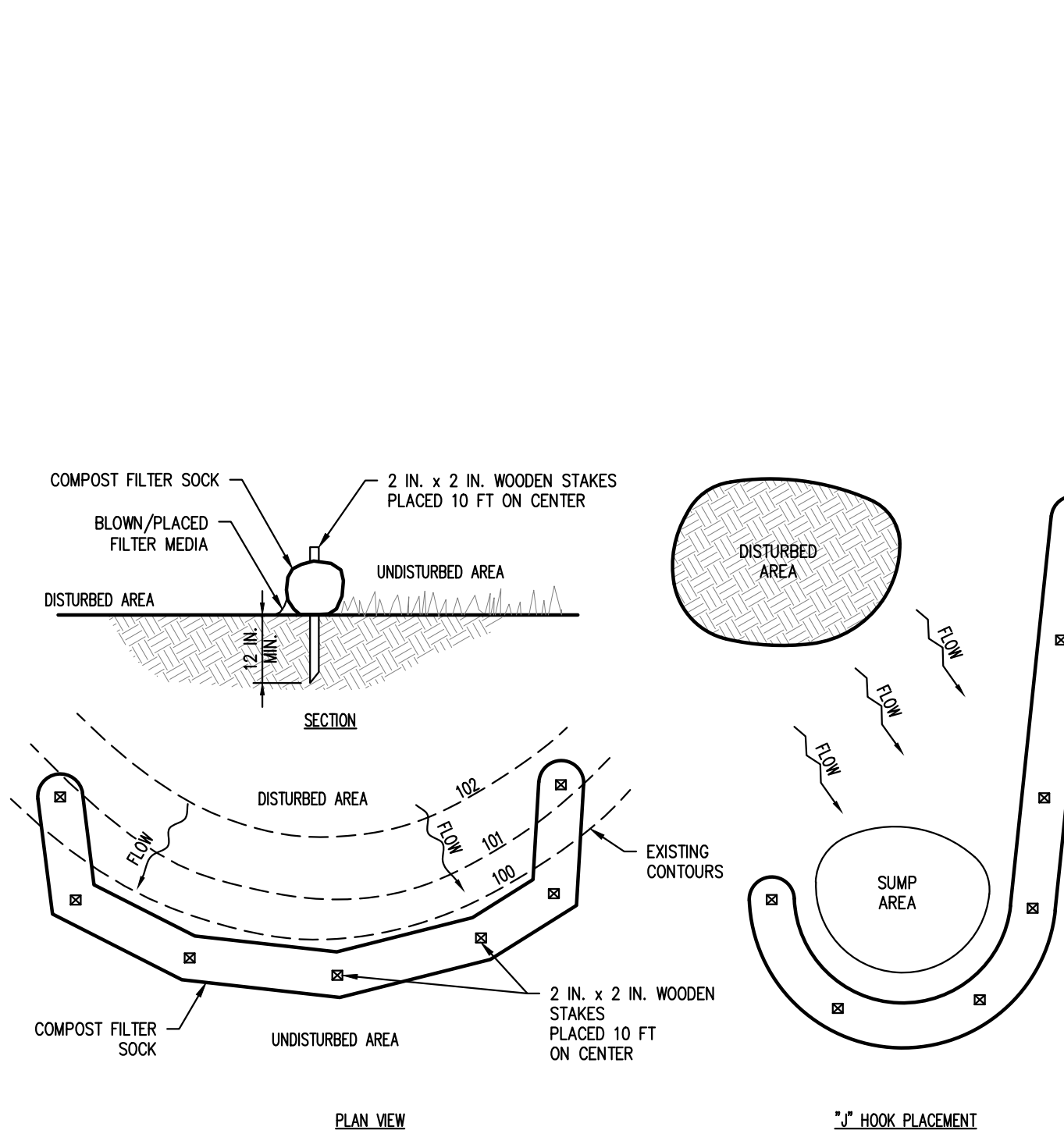
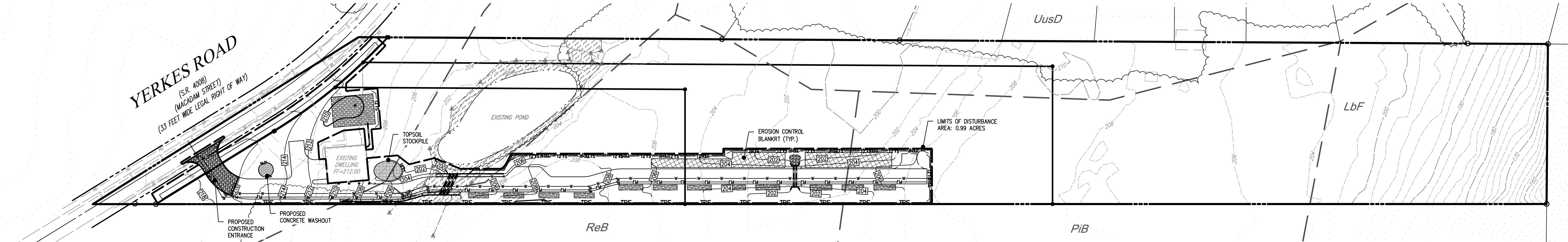
INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. ALL BUILDING 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 THE SITE.

DRAWING LEGEND

PROPERTY LINE	
EXISTING CONTOUR/ELEVATION	
SOIL BOUNDARY	
EDGE OF PAVEMENT	
LIMITS OF DISTURBANCE	
FILTER SOCK	
EXISTING BUILDING	
CONSTRUCTION ENTRANCE	
EROSION CONTROL BLANKET	
TOPSOIL STOCKPILE	



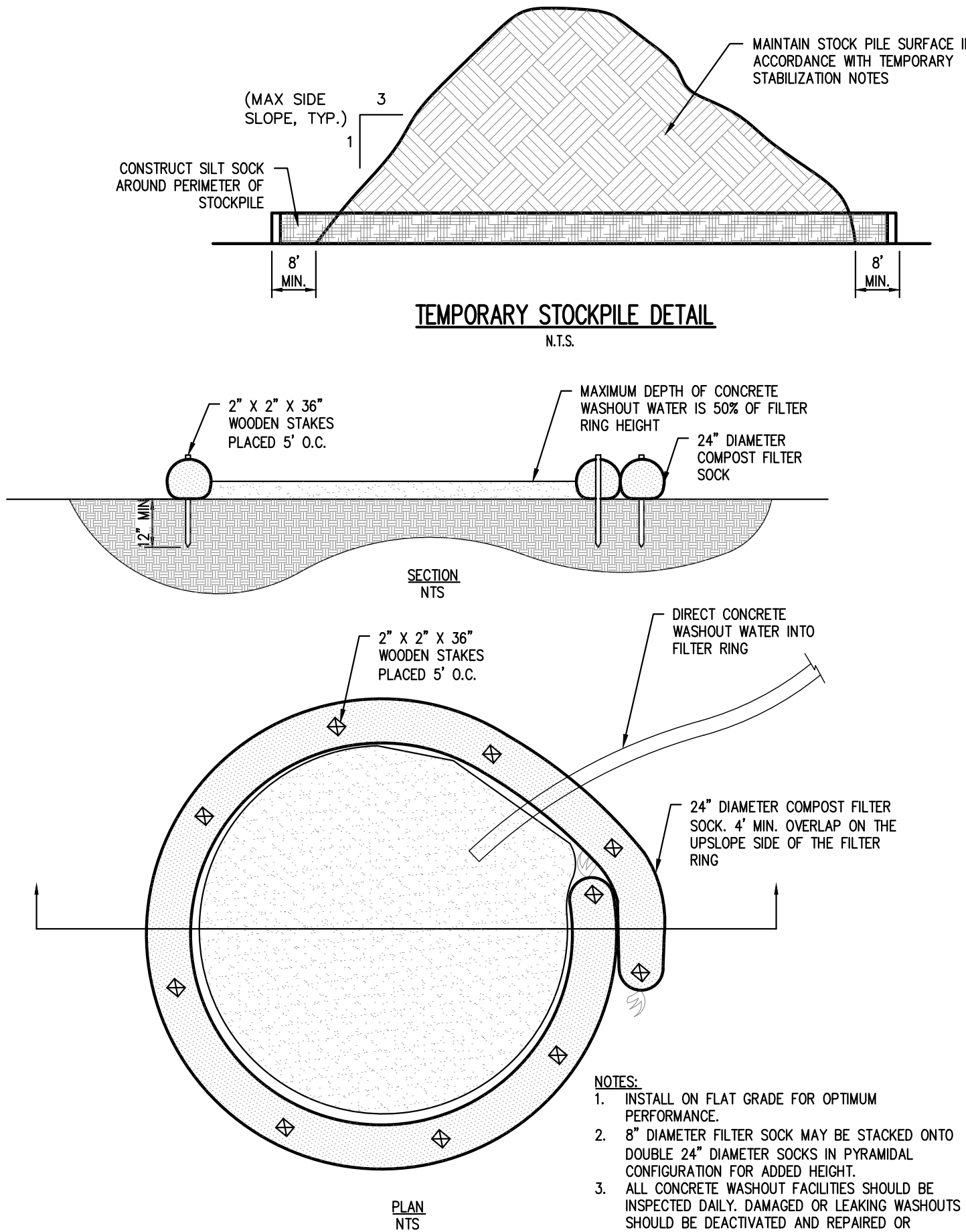
VICINITY MAP
NOT TO SCALE



NOTES:

- SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

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



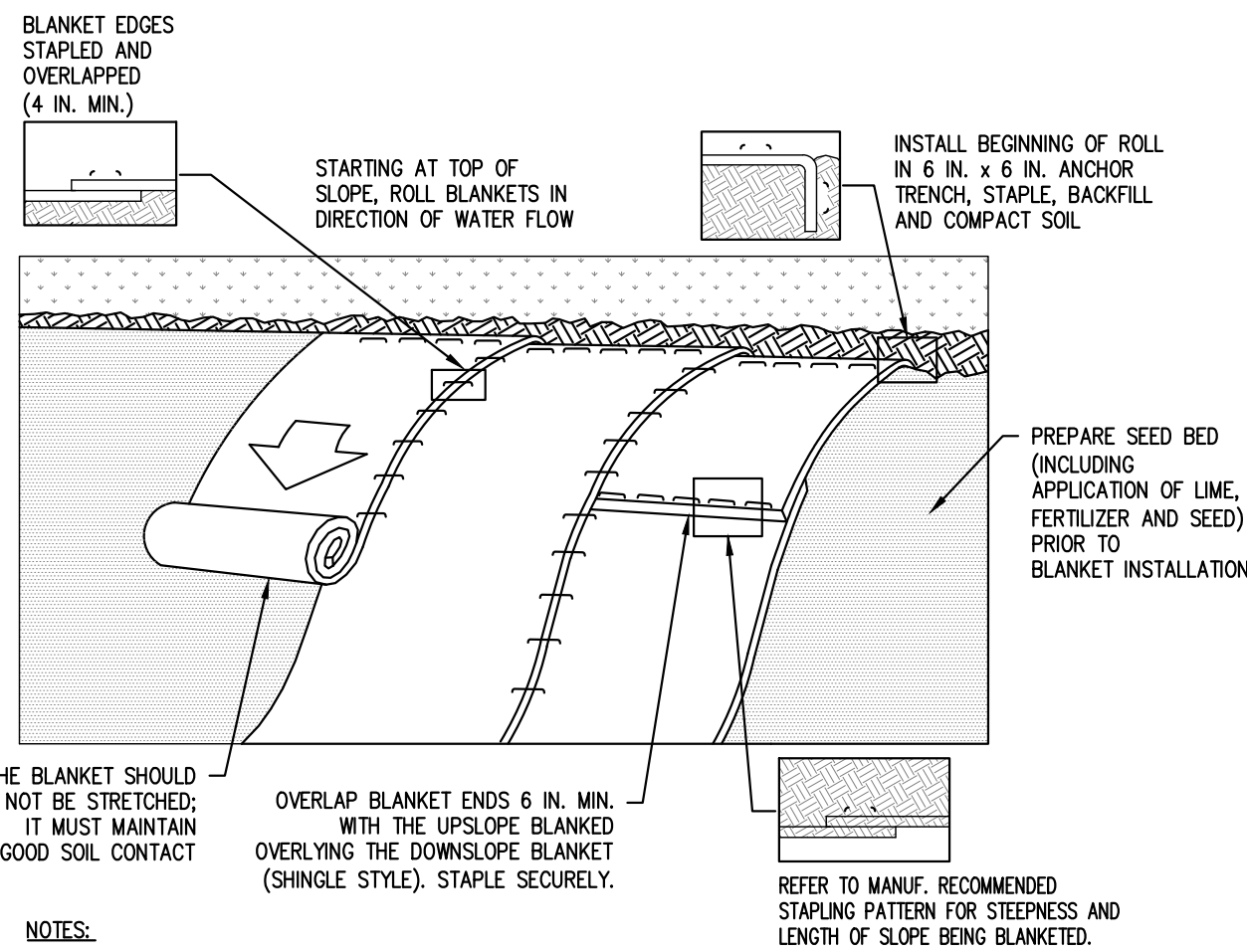
NOTES:

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

STANDARD CONSTRUCTION FIGURE #3-18
CONCRETE WASHOUT
NOT TO SCALE

WASHWATER RECYCLING SYSTEMS: WASHWATER RECYCLING SYSTEMS HAVE ALSO BEEN DEVELOPED WHICH SEPARATE THE SOLIDS FROM THE WASHWATER, CAPTURING BOTH IN IMPERMEABLE BASIN AND ALLOWING THEM TO BE RECYCLED. THESE SYSTEMS MAY BE USED IN LIEU OF WASHOUTS IF MANUFACTURERS' SPECIFICATIONS ARE FOLLOWED. CARE MUST BE TAKEN TO PREVENT THE FILTERED WATER FROM ENTERING ANY SURFACE WATERS. SEDIMENT BASINS AND SEDIMENT TRAPS SEDIMENT BASINS AND SEDIMENT TRAPS MAY NOT BE USED AS CONCRETE WASHOUT DEVICES, SINCE THEY DISCHARGE DIRECTLY TO SURFACE WATERS. THIS DISCHARGE WOULD HAVE AN ADVERSE EFFECT UPON THE RECEIVING WATER. IN ADDITION, CONTINUED USE OF A BASIN OR TRAP AS A WASHOUT FACILITY WOULD SIGNIFICANTLY REDUCE THE STORAGE CAPACITY OF THE BASIN OR TRAP.

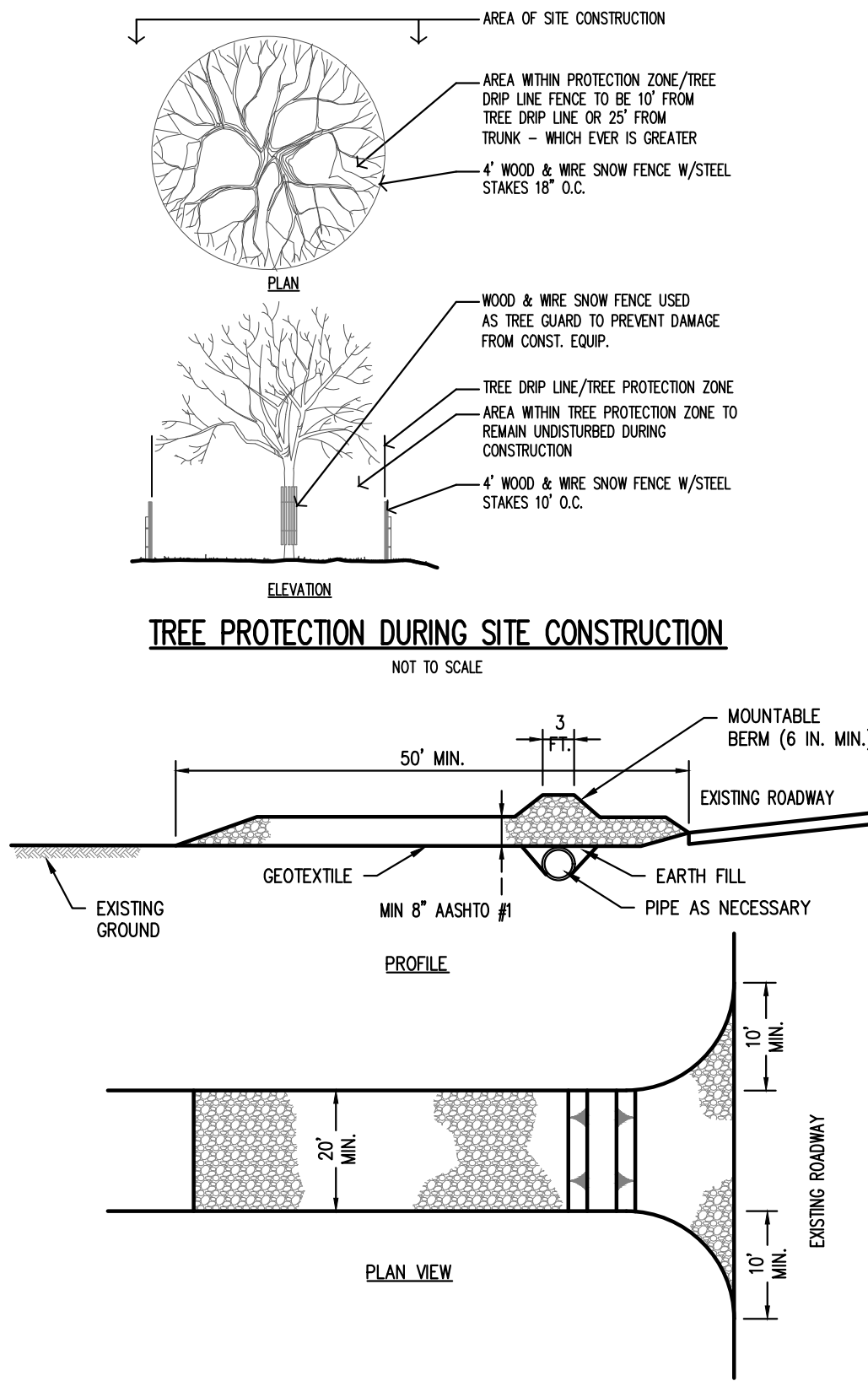
- MAINTENANCE:
- ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
 - ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT 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.

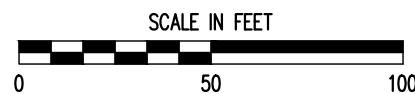
STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE



NOTES:

- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
 - RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
 - MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
- MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE



CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES
3 DAYS ADVANCE NOTICE OF
CONSTRUCTION PHASE AND WORKING
DAYS IN DESIGN STAGE - STOP CALL

PA1
PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE NO. 041814-E
1-800-242-1776
20190901641
POCS SERIAL NUMBER

R. A. GRAF

REV.	DATE	COMMENT	BY
01	07/21/2019	PER TOWNSHIP START UPDATES	AFC

ASB HOME
IMPROVEMENTS
LLC

3829 YERKES ROAD
COLLEGEVILLE, PA 19426
PARCEL 43-00-16522-00-4
LOWER PROVIDENCE TOWNSHIP
MONTGOMERY COUNTY, PA

GRAF ENGINEERING, LLC
LAND DEVELOPMENT CONSULTING
410 WEST MAIN STREET, SUITE 202
P.O. BOX 110
LANSDALE, PA 19446
TEL: (267) 263-2054

SHEET TITLE:

EROSION &
SEDIMENT
CONTROL PLAN

3829 YERKES
ROAD

SCALE(H):

SCALE(V):

DRAWN BY:

CHECKED BY:

DATE:

PROJECT NO:

SHEET No.

AFC

RAG

10/15/2018

G17.016

OF 6

5

IN ORDER TO KEEP EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION TO AN ABSOLUTE MINIMUM, ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE: 1. EROSION AND SEDIMENT CONTROL PLAN SHALL BE PREPARED AND APPROVED BY THE SUBSEQUENT STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES TO A MEETING TO DISCUSS THE EROSION AND SEDIMENT CONTROL PLAN. 2. THE LOCAL OFFICIALS, THE EROSION AND SEDIMENTATION CONTROL PLAN PREPARER, AND A REPRESENTATIVE OF THE MONTGOMERY COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING TO DISCUSS THE EROSION AND SEDIMENTATION CONTROL PLAN. 3. THE OPERATOR SHALL NOTIFY ALL CONTRACTORS INVOLVED IN THAT ACTIVITY. SHALL NOTIFY THE PENNSYLVANIA ONE-CALL SERVICE BY TELEPHONE 1-800-242-1778 TO DETERMINE ANY UNDERGROUND UTILITIES LOCATIONS. THE OPERATOR SHALL OBTAIN A RECORD DRAWING OF THE EXISTING STRUCTURAL FOUNDATION. 4. BMP'S AS DESIGN BY "CRITICAL STAGE" IN THE FOLLOWING SEQUENCE.

1. THE LIMITS OF DISTURBANCE SHALL BE DELINEATED WITH SURVEY STAKES OR SIMILAR, PRIOR TO ANY DISTURBANCE AND SHALL NOT BE DISTURBED DURING SITE CONSTRUCTION EXCEPT FOR TEMPORARY IMPACTS FOR MITIGATION OR RESTORATION PER PLANS.
2. INSTALL THE ROCK CONSTRUCTION ENTRANCE AT THE SITE ENTRANCE UNTO YERKES ROAD (PER STANDARD DETAIL #3-1) TO SERVE AS ACCESS TO THE SITE.
3. ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED AT THE ENTIRE LIMIT OF DISTURBANCE. PLACE COMPOST FILTER SOCK AS DESIGNATED ON PLANS AND DOWNSTREAM OF ALL ELEVATED OR TOPSOILING AREAS TO PREVENT SEDIMENT. INSTALL THE TREE PROTECTION FENCE AND THE CONCRETE WAGUARD FOR PLANS.
4. **CRITICAL STATE** INSTALLED THE PROPOSED CULTIVETS.
5. BEGIN BULK EROSION ACTIVITIES FOR THE PROPOSED ACCESS DRIVEWAY, STRIP TOPSOIL FROM AREAS OF PROPOSED EARTHWORK AND STOCKPILE ACCORDING TO PLANS. STABILIZE BY SPREADING 2" -3" OF TOPSOIL AND PROVIDING TEMPORARY SEEDING AS NECESSARY. CESSATION OF ACTIVITIES FOR FOUR (4) DAYS OR LONGER REQUIRES TEMPORARY SEEDING.
6. INSTALL THE PROPOSED ACCESS DRIVEWAY INCLUDING AGGREGATE BASE AND BINDER COURSE.

- THIS PLAN REPRESENTS AN ACTUAL FIELD SURVEY BOUNDARY PREPARED BY OTM, LLC ON OCTOBER 9, 2017 AND SUPPLEMENTAL POND ELEVATIONS PERFORMED BY MANCILL LAND SURVEYING, LLC ON FEBRUARY 16, 2018. THE STATE PLANE COORDINATE SYSTEM SOUTH ZONE, NAD83 ELEVATION DATA WAS USED.
2. APPLICANT: ASB HOME IMPROVEMENTS, LLC
3310 SUMMIT ROAD
COLLEGEVILLE, PA 19426
3. PROPERTY KNOWN AS A.P.N. 43-00-16522-00-4, AS IDENTIFIED ON THE OFFICIAL TAX MAPS OF MONTGOMERY COUNTY, LOWER PROVIDENCE TOWNSHIP, COMMONWEALTH OF PENNSYLVANIA.
4. ANY FURTHER DEVELOPMENT FOR ANY OF THE LOTS SHOWN ON THESE PLANS WILL REQUIRE FULL COMPLIANCE WITH THE LOWER PROVIDENCE TOWNSHIP'S CHAPTER 129 STORMWATER MANAGEMENT ORDINANCE, SPECIFICALLY SECTIONS 129-14. POST DEVELOPMENT RATES OF RUNOFF SHALL NOT EXCEED 75 PERCENT OF THE PEAK RATES PRIOR TO DEVELOPMENT FOR THE 2 AND 10 YEAR STORMS.
5. STORM SEWER STRUCTURES MAY NOT BE LOCATED ON TOP OF, OR WITHIN 10 FEET OF ELECTRIC, COMMUNICATION, WATER, SANITARY SEWER, GAS SERVICES AND/OR MAINS, UNLESS APPROVED, IS RECEIVED FROM THE TOWNSHIP AND OPERATING UTILITY AUTHORITY.
6. DURING CONSTRUCTION, DULY AUTHORIZED REPRESENTATIVES OF LOWER PROVIDENCE TOWNSHIP MAY ENTER THE PROPERTY AT ANY TIME UPON ANY PROPERTY WITHIN THE TOWNSHIP TO INVESTIGATE WHETHER CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THIS CHAPTER.
7. PER SECTION 129-29, THE APPLICANT FOR ANY REGULATED ACTIVITY REQUIRING A STORMWATER MANAGEMENT SITE PLAN AND STORMWATER MANAGEMENT PERMIT SHALL BE RESPONSIBLE FOR COMPLETING AN AS-BUILT SURVEY, SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA OR A REGISTERED SURVEYOR LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA, OF ALL STORMWATER MANAGEMENT FACILITIES/IMPROVEMENTS INCLUDED IN THE APPROVED PLAN.
8. A SET OF PLANS APPROVED BY THE TOWNSHIP SHALL BE ON FILE AT THE SITE THROUGHOUT THE DURATION OF DEVELOPMENT ACTIVITIES. PERIODIC INSPECTIONS MAY BE MADE BY THE TOWNSHIP OR DESIGNED DURING DEVELOPMENT ACTIVITIES.
9. IT SHALL BE UNLAWFUL FOR ANY PERSON TO UNDERTAKE ANY REGULATED ACTIVITY ON ANY PROPERTY EXCEPT AS PROVIDED FOR IN THE APPROVED PLAN AND PURSUANT TO THE REQUIREMENTS OF CHAPTER 129. IT SHALL BE UNLAWFUL TO ALTER OR REMOVE ANY STORMWATER MANAGEMENT FACILITY OR BEST MANAGEMENT PRACTICE (BMP) REQUIRED BY THIS PLAN PURSUANT TO CHAPTER 129 OR TO ALLOW THE PROPERTY TO REMAIN IN A CONDITION WHICH DOES NOT CONFORM TO THE APPROVED PLAN.
10. A BLANKET EASEMENT IS HEREBY GRANTED TO LOWER PROVIDENCE TOWNSHIP FOR THE PURPOSES OF INSPECTION AND/OR EMERGENCY REPAIRS TO THE BEST MANAGEMENT PRACTICES (BMPs) SHOWN AS PART OF THE APPROVED PLANS.

SPICAL CONSTRUCTION SEQUENCE

1. DUE TO THE NATURE OF CONSTRUCTION SITES, SUBSURFACE INFILTRATION SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD, IF POSSIBLE.
2. INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES (AS PER THE PENNSYLVANIA EROSION AND SEDIMENTATION CONTROL PROGRAM MANUAL) DURING CONSTRUCTION.
3. THE SUBGRADE UNDER THE BED AREAS SHOULD NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT TRAFFIC PRIOR TO GEOTEXTILE AND STONE BED PLACEMENT.
4. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE GRADING, THIS MATERIAL SHOULD BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE (OR EQUIVALENT) AND LIGHT TRACTOR. ALL FINE GRADING SHOULD BE DONE BY HAND. ALL BED BOTTOMS SHOULD BE AT LEAST LEVEL.
5. EARLY BEDS (IF USED) BETWEEN INFILTRATION BEDS SHOULD BE LEFT IN PLACE DURING CONSTRUCTION. THESE BEDS DO NOT REQUIRE COMPACTION IF PROVEN STABLE DURING CONSTRUCTION.
6. INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS, PERFORATED PIPING, AND OTHER NECESSARY FORMWORK STRUCTURES.
7. GEOTEXTILE AND BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. AVAILABLE STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16 INCHES. IT SHOULD BE SECURED AT LEAST 4 FEET OUTSIDE OF BED IN ORDER TO PREVENT ANY RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED, AS WELL AS FULLY GRASSED. EXCESS GEOTEXTILE ALONG BED EDGES CAN BE CUT BACK TO THE EDGE OF THE BED.
8. CLEAN-WASHED, UNIFORM GRADED AGGREGATE SHOULD BE PLACED IN THE BED WITH A MAXIMUM OF 3/8 INCH LEAST LAYER. PLACE LIGHTLY TO A MINIMUM OF 18 INCHES. CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM OF MOST AS POSSIBLE.
9. APPROVED SOIL MEDIA SHOULD BE OVERLAPD AFTER INFILTRATION BED A MAXIMUM OF 6 INCH FEET.
10. SEED AND STABILIZE TOPSOIL.
11. DO NOT REMOVE UNTIL PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

- CATCH BASINS AND INLETS SHOULD BE INSPECTED AND CLEANED AT LEAST 2 TIMES PER YEAR.
- THE OVERLYING VEGETATION OF SUBSURFACE INFILTRATION FEATURES SHOULD BE MAINTAINED IN GOOD CONDITION, AND ANY BARE SPOTS REVEGETATED AS SOON AS POSSIBLE.
- VEHICULAR ACCESS ON SUBSURFACE INFILTRATION AREAS SHOULD BE PROHIBITED, AND CARE SHOULD BE TAKEN TO AVOID EXCESSIVE COMPACTION BY MOWERS. IF ACCESS IS NEEDED, USE OF PERMEABLE, TURF REINFORCEMENT SHOULD BE CONSIDERED.

THERMAL IMPACTS FOR THE PROPERTY ARE BEING MINIMIZED BY THE INSTALLATION OF MAINTAINED LAWNS AND BASINS WITH EXTENSIVE PLANTINGS. THE PROPOSED DISTURBED AREA CURRENTLY IS COVERED WITH DENSE GRASS, MEADOW, AND TREES WHICH PROVIDE SOME SHADE FOR THE GROUND RUNOFF TRAVELING ALONG IT. STORMWATER ON SITE WILL BE COLLECTED MAINLY VIA INLETS TO ALLOW THE COOLING OF RUNOFF PRIOR TO REACHING THE BASIN DUE TO SHADING AND BEING UNDERGROUND. THE PROPOSED VEGETATION WILL PROVIDE SHADING OF THE RUNOFF PRIOR TO REACHING THE STORM SYSTEM AND WILL PROVIDE AN OPPORTUNITY FOR INFILTRATION AND PLANT UPTAKE OF THE RUNOFF. THREE BIO-RETENTION AREAS AND A BASIN ARE PROPOSED FOR VOLUME MANAGEMENT TO REDUCE HOLDING OF RUNOFF THAT MAY HEAT UP BY AN EXTENDED EXPOSURE OF THE SUN.

INDIVIDUALS RESPONSIBLE FOR EARTH DISTURBANCE ACTIVITIES MUST ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. 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 THE SITE.

SILT REMOVED FROM PERMANENT BMP'S SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE THE 100 YEAR FLOOD PLAINS, WETLANDS, STEEP SLOPES AND DRAINAGE SWALES. AREAS OF SEDIMENT DISPOSAL SHALL BE CONSIDERED A CRITICAL VEGETATION AREA REQUIRING IMMEDIATE STABILIZATION.

THE OPERATOR SHALL REMOVE FROM THIS 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., 271.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.

PROPERTY LINE

EXISTING CONTOUR/ELEVATION 246

SOIL BOUNDARY BwA

EDGE OF PAVEMENT

EXISTING BUILDING

SUPPLEMENTAL
EXISTING CONTOURS
(SHOWN AS DOTS)
TAKEN FROM PASDA.

TYPICAL CONSTRUCTION SEQUENCE

1. PROTECT INFILTRATION AREA FROM COMPACTION PRIOR TO INSTALLATION.
2. IF NECESSARY, INSTALL DRYWELLS DURING LATER PHASES OF SITE CONSTRUCTION TO PREVENT SEDIMENTATION AND/OR DAMAGE FROM CONSTRUCTION ACTIVITY.
3. INSTALL AND MAINTAIN PORER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION AS FOR THE PENNSYLVANIA EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (MARCH 2000, OR LATEST EDITION).
4. EXCAVATE TRENCH TO THE REQUIRED DEPTH, UNCOMPACTED SUBGRADE FREE FROM ROCKS AND DEBRIS. DO NOT COMPACT SUBGRADE. TO THE GREATEST EXTENT POSSIBLE, EXCAVATION SHOULD BE PERFORMED WITH THE LIGHTEST PRACTICAL EQUIPMENT.
5. EXCAVATION EQUIPMENT SHOULD BE PLACED OUTSIDE THE LIMITS OF THE DRY WELL. COMPACT WEAR SURF OF DRIVEWAY OR SIDEWALK. EXCESSIVE DEBRIS HAS ACCUMULATED IN DRY WELL BOTTOM. REMOVE PRIOR TO GEOTEXTILE PLACEMENT.
6. GEOTEXTILE ROLLS SHOULD OVERLAP BY A MINIMUM OF 4 FEET/INCHES WITHIN THE TRENCH. FOLD BACK AND SECURE EXCESS GEOTEXTILE DURING STONE PLACEMENT.
7. EXCAVATE CONJUGATELY FROM ONE END OF PIPE. OBSERVATION WELLS, AND ALL OTHER DRY WELL STRUCTURES, CONNECT ROOF LEADERS TO STRUCTURES AS INDICATED ON PLANS.
8. PLACE UNIFORMLY GRADED, CLEAN-WASHED AGGREGATE IN 6 INCH LIFTS, LIGHTLY COMPACTING BETWEEN LIFTS.
9. FOLD AND SECURE NONWOVEN GEOTEXTILE OVER TRENCH, WITH MINIMUM OVERLAP OF 12 INCHES.
10. PLACE 12 INCH LIFT OF APPROVED TOPSOIL OVER TRENCH, AS INDICATED ON PLANS.
11. SEED AND STABILIZE TOPSOIL.
12. INSTALL SURCHARGE PIPE TO ROOF LEADER AND POSITION OVER SPLASHBOARD.
13. DO NOT REMOVE EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY

INSPECT DRY WELLS AT LEAST FOUR TIMES A YEAR, AS WELL AS AFTER EVERY STORM EXCEEDING 1 INCH.

DISPOSE OF SEDIMENT, DEBRIS/TRASH, AND ANY OTHER WASTE MATERIAL REMOVED FROM A DRY WELL AT A SUITABLE DISPOSAL/RECYCLING SITE IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL WATER REGULATIONS.

EVALUATE THE DRAIN-DOWN TIME OF THE DRY WELL TO ENSURE THE MAXIMUM OF 72 HOURS IS NOT BEING EXCEEDED. IF DRAIN-DOWN TIMES ARE EXCEEDING THE MAXIMUM, DRAIN THE WELL TO A PUMP-OUT STATION OR TO A SEWER MAIN. IF THE DRAINING IS SLOW, DRAINAGE PERSISTS, THE SYSTEM MAY NEED REPLACING.

REGULARLY CLEAN OUT GUTTERS AND ENSURE PROPER CONNECTIONS TO FACILITATE THE EFFECTIVENESS OF THE DRY WELL.

REPLACE FILTER SCREENS AND/OR EXISTING ROOF RUNOFF AS NECESSARY.

IF AN INTERMEDIATE PUMP BOW EXISTS, CLEAN IT OUT AT LEAST ONCE PER YEAR.

TYPICAL CONSTRUCTION SEQUENCE:

1. ALL CONSTRUCTION SHOULD BE COMPLETED AND STABILIZED BEFORE BEGINNING SOIL RESTORATION.
2. ** CRITICAL STAGE ** SPREAD 2-3 INCHES OF APPROVED COMPOST ON EXISTING SOIL. TILL ABOVE SOIL INTO EXISTING SOIL. A ROTARY TILLAGE THAT'S SET TO A DEPTH OF 5 INCHES. THIS PROCESS SHOULD BE COMPLETED IN STEPS UNTIL APPROXIMATELY 2-3 INCHES BELOW FINAL GRADE. ADD AN ADDITIONAL 4 INCHES OF APPROVED COMPOST TO BRING THE AREA UP TO GRADE.

RESTORATION

COMPACT PRODUCTS MUST MEET ALL APPLICABLE STATE AND FEDERAL REGULATIONS AND TO ITS PRODUCTION AND DISTRIBUTION, AND CHEMICAL CONTAMINANT AND PATHOGEN LIMIT STANDARDS.

VERY COARSE COMPOST SHOULD BE AVOIDED TO ALLOW FOR PLANTING AND LAWN ESTABLISHMENT.

DENSITY OF COMPOST PRODUCTS PROPOSED FOR USE IN THIS APPLICATION MUST HAVE A MAXIMUM BULK DENSITY OF 1.6 G/CM³ FOR LOAMY SANDS, 1.4 G/CM³ FOR SANDY LOAMS OR SANDY CLAY LOAMS, 1.3 G/CM³ FOR CLAY LOAMS, AND 1.1 G/CM³ FOR SILTY CLAY LOAMS, CLAY LOAMS (35% TO 45% CLAY) AND SILTS.

COMPOST PRODUCTS COMPACTED AND EXCAVATION COMPLETE, THE SUBSOIL SHALL BE IN A LOOSE, FRABLE CONDITION TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE AND THERE SHALL BE NO RILLS OR WASHOUTS IN THE SUBSOIL SURFACE EXCEEDING 3 INCHES IN DEPTH.

TO ACHIEVE THIS CONDITION, SUBSOLING, RIPPING, OR SCARIFICATION OF THE SUBSOIL WILL BE REQUIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE. WHEREVER THE SUBSOIL HAS BEEN COMPACTED BY EQUIPMENT OPERATION OR HAS BECOME DRIED OUT AND CRUSTED, AND WHEREVER THERE IS A NEED TO SUBSIDIZE OR STABILIZE THE SUBSOIL, THE CONTRACTOR SHALL REDUCE SOIL COMPACTION IN ALL AREAS WHERE PLANT ESTABLISHMENT IS PLANNED.

SUB-SOLING SHALL BE PERFORMED BY THE PRIME OR EXCAVATING CONTRACTOR AND SHALL BE SUBJECT TO COMPLETION OF THE EXCAVATION.

SUBSOIL AREAS SHALL BE LOOSENED TO LESS THAN 1400 KPA (200 PSI) TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE. WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL VERIFY THAT THE SUB-SOLING WORK CONFORMS TO THE SPECIFIED DEPTH.

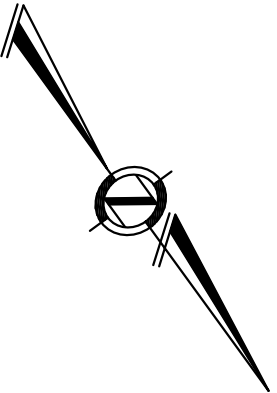
SUB-SOLING SHALL FORM A TWO-DIRECTIONAL GRID. CHANNELS SHALL BE CREATED BY A COMMERCIALLY AVAILABLE, MULTI-SHANKED, PARALLEL/ROW IMPLEMENT (SOLID-SHANK ROLLER). THE EQUIPMENT SHALL BE CAPABLE OF EXERTING A PENETRATION FORCE OF 10,000 LBS/INCH FOR THE FIRST 12 INCHES OF THE CHANNEL. CHANNELS SHALL BE ALLOWED. THE GRID CHANNELS SHALL BE SPACED A MINIMUM OF 12 INCHES TO A MAXIMUM OF 36 INCHES APART, DEPENDING ON EQUIPMENT, SITE CONDITIONS, AND THE SOIL TYPE. THE PLAN, CHAINAGE, AND DEPTH OF THE SUBSOILING SHALL BE AS SPECIFIED IN THE SOIL MANAGEMENT PLAN, IF SOILS ARE SATURATED, THE CONTRACTOR

THE SOIL RESTORATION PROCESS MAY NEED TO BE REPEATED OVER TIME, DUE TO COMPACTION BY USE AND/OR SETTLING (FOR EXAMPLE, PLAY FIELDS OR PARK AREA WILL BE COMPACTED BY FOOT TRAFFIC).

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PA1
SYSTEM, INC.
1-800-242-1776
20190091641
POCS SERIAL NUMBER

PROFESSIONAL ENGINEER
PENNSYLVANIA LICENSE No. 041814-E

[illegible]

3829 YERKES ROAD
COLLEGEVILLE, PA 19426
PARCEL 43-00-16522-00-4
LOWER PROVIDENCE TOWNSHIP

410 WEST MAIN STREET, SUITE 202
P.O. BOX 110
LANSDALE, PA 19446

3829 YERKES
ROAD

SCALE(V):

DRAWN BY: AFC

CHECKED BY: RAG

DATE: _____

10

SHEET No.

6

OF 6



SHEET No.

1

OF 1

