- 1. THIS LAND DEVELOPMENT PROPOSES TRAINING WING EXPANSION TO THE EXISTING PA GAME COMMISSION
- UTILITIES AND OTHER OBSTRUCTIONS AS SHOWN HEREON HAVE BEEN LOCATED BY ACTUAL FIELD MEASUREMENTS. SUPPLEMENTED BY INFORMATION OBTAINED FROM VARIOUS AGENCIES HAVING JURISDICTION. HOWEVER, WE DO NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED. THE CONTRACTOR MUST VERIFY ALL SUCH INFORMATION TO HIS OWN SATISFACTION AND MUST NOTIFY THE PA ONE CALL SYSTEM, INC., (1-800-242-1776) A MINIMUM OF 3 DAYS PRIOR TO EXCAVATION AS REQUIRED BY PA ACT 121 (OCT. 2008), PRIOR TO CONDUCTING ANY EXCAVATING ACTIVITIES. FIRST CAPITAL ENGINEERING, INC. IS NOT LIABLE FOR ANY DAMAGE ASSOCIATED WITH EXCAVATION ACTIVITIES BY OTHERS OR AS A RESULT OF UNDERGROUND UTILITIES NOT BEING SHOWN HEREON, OR FOUND TO BE IN DIFFERENT
- 3. BASED ON REVIEW OF THE FLOOD INSURANCE RATE MAP, DAUPHIN COUNTY, PENNSYLVANIA MAP NUMBER 42043C0340D PANEL 340 OF 501, DATED AUGUST 2, 2012. THE PROJECT SITE IS NOT LOCATED WITHIN
- 4. BEARINGS AND COORDINATES AS SHOWN HEREON ARE BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM - NORTH AMERICAN DATUM 83 PA NORTH ZONE.
- 5. VERTICAL DATUM: NAVD 88 5. THIS FIELD SURVEY WAS PERFORMED DURING MARCH AND APRIL OF 2022.
- 6. BENCHMARK/CONTROL POINT
- 1 N: 351730.896 E: 2217710.102 ELEV: 454.316 BEING A REBAR AND CAP
- 2 N: 351910.313 E: 2218043.416 ELEV: 461.653 BEING A REBAR AND CAP 3 - N: 351786.593 E: 2218335.554 ELEV: 469.026 BEING A REBAR AND CAP
- 7. ALL STATEMENTS WITHIN THE CERTIFICATION, AND OTHER REFERENCES LOCATED ELSEWHERE HEREON, RELATED TO: UTILITIES, IMPROVEMENTS, STRUCTURES, BUILDINGS, PARTY WALLS, PARKING, EASEMENTS, SERVITUDES, AND ENCROACHMENTS; ARE BASED SOLELY ON ABOVE GROUND, VISIBLE EVIDENCE, UNLESS
- ANOTHER SOURCE OF INFORMATION IS SPECIFICALLY REFERENCED HEREON. 8. NO AREA OUTSIDE THE RIGHT-OF-WAY IS OFFERED FOR DEDICATION TO THE CITY.
- 9. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.

GENERAL DEMOLITION NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
- 2. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRÚCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- 3. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 4. ALL EXISTING ABOVE AND BELOW GROUND STRUCTURES WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE RAZED UNLESS NOTED OTHERWISE WITHIN THIS CONSTRUCTION SET, ARCHITECTURAL PLANS AND/OR PROJECT SPECIFICATIONS. THIS INCLUDES FOUNDATION SLABS, WALLS, AND FOOTINGS.
- 5. ALL DEMOLITION WASTE AND CONSTRUCTION DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES
- AND PERMIT REQUIREMENTS. 6. ALL UTILITY REMOVAL, RELOCATION, CUTTING, CAPPING AND/OR ABANDONMENT SHALL BE COORDINATED WITH
- THE APPROPRIATE UTILITY COMPANY.
- 7. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
- 8. UTILITY CONTACTS ARE LISTED ON THE COVER SHEET.
- 9. EROSION AND SEDIMENTATION CONTROL MEASURES AROUND AREAS OF DEMOLITION SHALL BE INSTALLED PRIOR TO INITIATION OF DEMOLITION ACTIVITIES. REFER TO E&S PLAN FOR DETAILS.
- 10. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE
- 11. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING CONSTRUCTION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO COST TO THE OWNER.
- 12. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
- 13. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH PENNDOT STANDARDS. AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS. ROADS. HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES CONTRACTOR SHALL PROTECT AT ALL TIMES
- ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION ACTIVITIES. 14. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO
- 15. DEMOLITION CONTRACTOR SHALL COORDINATE EXISTING FACILITIES UTILITY DISCONNECTS WITH CONSTRUCTION REPRESENTATIVE A MINIMUM 7 DAYS PRIOR TO ANTICIPATED DEMOLITION OF STRUCTURES.

GRADING NOTES

UPDATING THESE REGULATIONS.

DEMOLITION ACTIVITIES.

- 1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY FIRST CAPITAL ENGINEERING, INC., THE CURRENT REQUIREMENTS OF THE TOWNSHIP, THE APPLICABLE SECTIONS OF THE PENNDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL AND STATE LAWS.
- 2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH, INCLUDING THE FEDERAL CONSTRUCTION SAFETY ACT (PUBLIC LAW 91-54), FEDERAL REGISTER, CHAPTER XVII, PART 1926 OF TITLE 29 REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, AND SUBSEQUENT PUBLICATIONS
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE.
- 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. ALL EXISTING TREES, VEGETATION, PAVEMENTS, CONCRETE FOUNDATIONS, STRUCTURES AND ORGANIC TOPSOIL SHALL BE STRIPPED AND REMOVED FROM NEW CONSTRUCTION AREAS UNLESS NOTED OTHERWISE.
- 6. ALL SLOPES SHALL BE 2:1 (HORIZONTAL: VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE. 7. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND
- SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- 8. ALL AREAS NOT PAVED SHALL BE TOPSOILED, SEEDED, MULCHED OR LANDSCAPED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS, SPECIFICATIONS, OR INSTRUCTED BY THE OWNER.
- 9. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. PRIOR TO INITIATION OF ANY EARTHWORK ACTIVITY.
- 10. FILL SHALL NOT CONTAIN BOULDERS OR FRACTURED ROCK OR BROKEN CONCRETE OVER ONE (1) FOOT IN LARGEST DIMENSION, OR ANY ORGANIC MATERIAL, TRASH, GARBAGE OR BROKEN ASPHALT PAVING. FILLS OF MORE THAN FIVE (5) FEET DEEP SHALL BE COMPACTED WHILE BEING PLACED BY A METHOD APPROVED BY THE TOWNSHIP ENGINEER.
- 11. DURING GRADING OPERATIONS, MEASURES NECESSARY FOR DUST CONTROL WILL BE EXERCISED.

GENERAL CONSTRUCTION NOTES

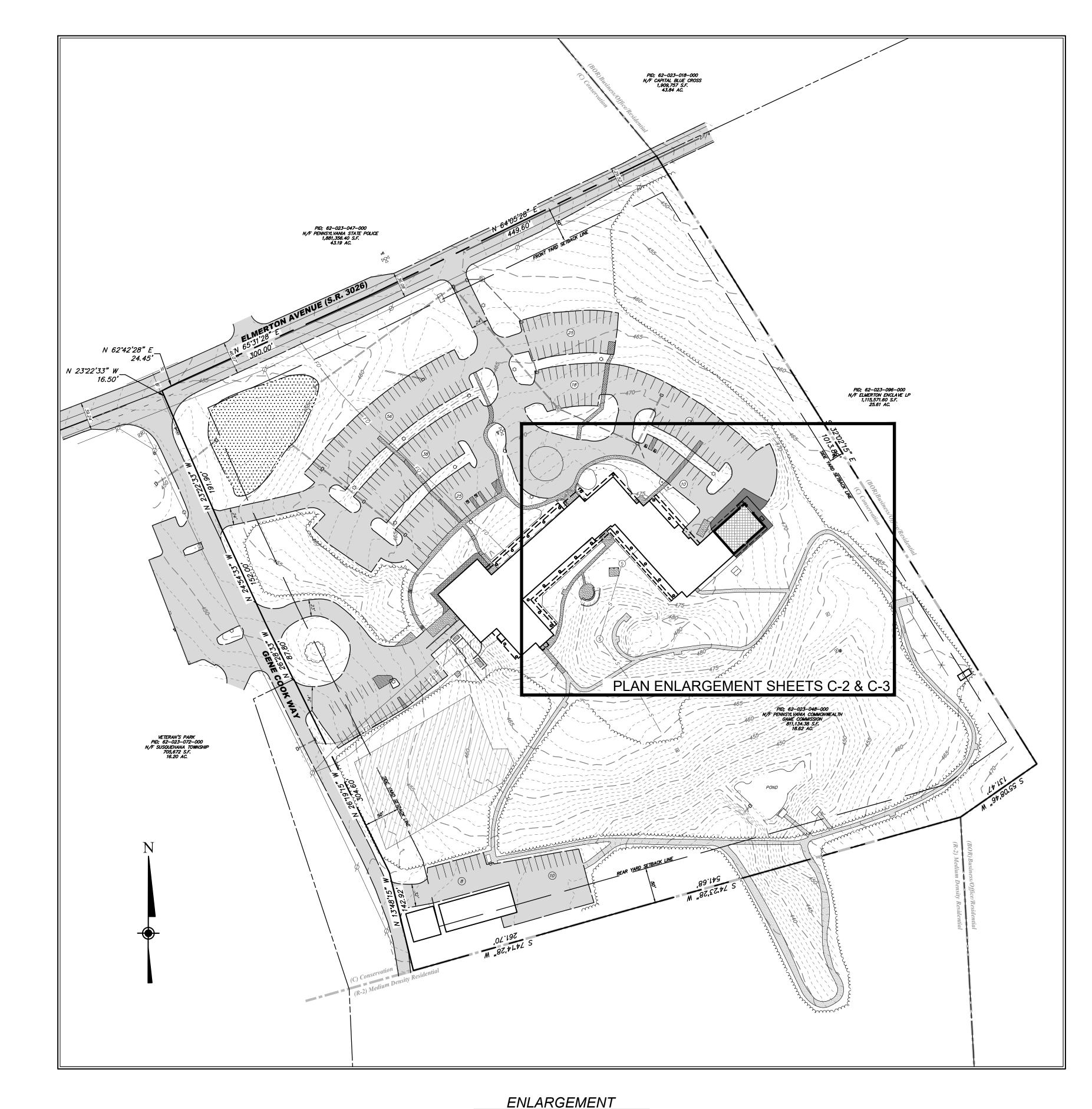
- PRIOR TO COMMENCEMENT OF PROJECT, CONTRACTOR SHALL COORDINATE CONSTRUCTION SCHEDULE OF PROPOSED IMPROVEMENTS WITH THE OWNER, PROJECT ENGINEER, MUNICIPALITY, AND ALL ADJOINING PROPERTY OWNERS THAT WILL BE AFFECTED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL ADHERE TO THE SEQUENCE OF CONSTRUCTION OUTLINED IN THE EROSION CONTROL PLAN, UNLESS APPROVED OTHERWISE BY THE LOCAL CONSERVATION DISTRICT, THE MUNICIPALITY, AND THE PROJECT ENGINEER.
- 2. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO THE START OF CONSTRUCTION. CONCERNS AND DISCREPANCIES REGARDING LOCATION OF SUCH FACILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
- 3. CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITY SERVICES WITHOUT PRIOR APPROVAL FROM THE UTILITY PROVIDER. ALL AFFECTED USERS OF THE UTILITY SCHEDULED TO BE INTERRUPTED SHALL BE
- 4. ALL UTILITIES SHALL BE CLEARED BY A MINIMUM OF ONE FOOT (1') UNLESS OTHERWISE NOTED. UTILITY POLES SHALL BE CLEARED BY A MINIMUM OF TWO FEET (2').
- 5. CONTRACTOR SHALL NOTE THAT, IN CASE OF DISCREPANCIES BETWEEN SCALED AND LABELED DIMENSIONS SHOWN ON THESE PLANS, THE LABELED DIMENSIONS SHALL TAKE PRECEDENCE. UNLESS NOTED OTHERWISE IN CASE OF CONFLICTS BETWEEN THE PLANS AND DETAILS SHOWN HEREIN AND MUNICIPAL ORDINANCES OR CONSTRUCTION SPECIFICATIONS, THE MUNICIPAL REQUIREMENTS SHALL TAKE PRECEDENCE.
- 6. EXISTING BITUMINOUS OR CONCRETE PAVED AREAS OR LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE REPLACED OR REPAIRED WITH MATERIAL EQUAL TO OR EXCEEDING THAT WHICH WAS DISTURBED, OR AS SPECIFIED BY THE OWNER, PROJECT OR MUNICIPAL ENGINEER, AS APPLICABLE.
- 7. IN FILL AREAS, COMPACTION SHALL BE TO FULL HEIGHT TO THE SPECIFIED ELEVATION. FILL SHALL BE PLACED IN EIGHT INCH (8") (PLUS OR MINUS TWO INCHES (2")) MEASURED LOOSE LIFTS. EACH LIFT SHALL BE COMPACTED TO A MINIMUM NINETY-FIVE (95%) OF STANDARD DENSITY AS DETERMINED BY AASHTO METHODS T-99, UNLESS SPECIFIED OTHERWISE BY PROJECT OR GEOTECHNICAL ENGINEER, OR MUNICIPALITY. SITE CONTRACTOR SHALL COMPLETE ALL GRADING, FILL AND COMPACTION OPERATIONS IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL REQUIREMENTS.
- 8. CONTRACTOR SHALL MONITOR CONSTRUCTION VEHICLES AS REQUIRED TO AVOID TRACKING MUD AND DEBRIS ONTO ANY PAVED STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE STREET(S) AND/OR ACCESS DRIVE(S) CLEARED AND THE SITE IN AN APPROPRIATE WORKMAN-LIKE MANNER.
- ALL EXISTING LAWN AREAS DISTURBED BY PROPOSED CONSTRUCTION SHALL BE RESTORED TO PROVIDE A MINIMUM SIX INCHES (6") TOPSOIL, GRADED TO SMOOTH, TRUE LINES AND SEEDED AND MULCHED PER
- 10. ANY LAND AREA THAT CANNOT BE ADEQUATELY STABILIZED W/SEEDING AND MULCHING SHALL BE STABILIZED WITH GEOTEXTILE (GROUND STABILIZATION) MATTING.
- 11. PROPOSED STORMWATER MANAGEMENT FACILITIES:
- PROPOSED TRENCH DRAINS HAVE BEEN DESIGNED TO MANAGE POST DEVELOPMENT STORM RUNOFF FROM PROPOSED IMPERVIOUS ROOF AND DRIVEWAY AREAS SHOWN ON THIS PLAN. NO PROVISIONS HAVE BEEN MADE TO MANAGE STORMWATER RUNOFF FROM ADDITIONAL FUTURE IMPERVIOUS AREAS NOT SHOWN ON THIS
- 12. ALL BLASTING REQUIRED FOR ROCK REMOVAL FOR INSTALLATION OF PROPOSED SANITARY SEWER AND OTHER UTILITIES SHALL BE COMPLETED AT THE SAME TIME IN ACCORDANCE WITH ALL GOVERNING REGULATORY
- 13. A MINIMUM VERTICAL SEPARATION OF EIGHTEEN (18") SHALL BE MAINTAINED BETWEEN ALL WATER AND SANITARY SEWER CROSSINGS. IF THIS CLEARANCE CANNOT BE MAINTAINED, A CONCRETE ENCASEMENT SHALL BE PROVIDED, UPON APPROVAL BY MUNICIPALITY AND PROJECT ENGINEER.

UTILITY NOTES

- 1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY FIRST CAPITAL ENGINEERING, INC., THE CURRENT REQUIREMENTS OF THE TOWNSHIP, THE APPLICABLE SECTIONS OF THE PENNDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL
- THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS. PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH, INCLUDING THE FEDERAL CONSTRUCTION SAFETY ACT (PUBLIC LAW 91-54), FEDERAL REGISTER, CHAPTER XVII, PART 1926 OF TITLE 29 REGULATIONS. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, AND SUBSEQUENT PUBLICATIONS UPDATING THESE REGULATIONS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE.
- 4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY PA ONE CALL AT 1-800-242-1776. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BID AND PERFORM ALL UTILITY WORK IN COMPLIANCE TO ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH THE INSTALLATION, INSPECTING, TESTING AND FINAL ACCEPTANCE OF ALL PROPOSED UTILITIES CONSTRUCTION.
- 7. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY ON THE ADDITION, REMOVAL AND/OR RELOCATION OF UTILITIES AND UTILITY POLES AND THE EXTENSION OF ALL PROPOSED UTILITIES.
- 8. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE UTILITY COMPANY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL UTILITIES ARE INSTALLED CORRECTLY TO MEET PROJECT REQUIREMENTS WHETHER PERFORMED BY THE CONTRACTOR OR NOT.
- 9. AN AS-BUILT DRAWING OF NEW UTILITY SERVICES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE OWNER UPON COMPLETION OF THE PROJECT.
- 10. UTILITY COMPANIES AND CONTACTS ARE LISTED ON COVER SHEET.
- 11. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.

SOIL LIMITATION NOTES

- REFERENCE GEOTECHNICAL ENGINEERING REPORT, DATED DECEMBER 5, 2022 PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. FOR FULL EXPLANATION OF SOIL CONDITIONS AT THE PROJECT SITE. IN GENERAL, THE FOLLOWING MEASURES SHOULD BE FOLLOWED:
- <u>SITE PREPARATION AND PROOFROLLING:</u> THE GEOTECHNICAL ENGINEER OR AN EXPERIENCED SOILS TECHNICIAN SHOULD OBSERVE THE SITE AFTER IT HAS BEEN STRIPPED AND EXCAVATED. THE GEOTECHNICAL ENGINEER/SOILS TECHNICIAN SHOULD DETERMINE IF ANY UNDERCUTTING OR IN-PLACE DENSIFICATION IS NECESSARY TO PREPARE A SUBGRADE FOR FILL PLACEMENT OR FOR SLAB SUPPORT.
- FILL PLACEMENT AND COMPACTION: THE GEOTECHNICAL ENGINEER OR AN EXPERIENCED SOILS TECHNICIAN SHOULD OBSERVE ANY REQUIRED FILLING OPERATIONS AND SHOULD TAKE SUFFICIENT IN—PLACE DENSITY TESTS TO DOCUMENT THAT THE SPECIFIED DEGREE OF FILL COMPACTION IS ACHIEVED. HE/SHE SHOULD OBSERVE AND DOCUMENT ANY BORROW MATERIALS USED AND DETERMINE IF THEIR EXISTING MOISTURE CONTENTS ARE
- FOOTING EXCAVATION INSPECTIONS: THE GEOTECHNICAL ENGINEER OR AN EXPERIENCED SOILS TECHNICIAN SHOULD OBSERVE THE FOOTING EXCAVATIONS FOR THE PROPOSED FOUNDATIONS. HE/SHE SHOULD DOCUMENT THAT THE DESIGN BEARING PRESSURE IS AVAILABLE AND THAT NO UNSUITABLE CONDITIONS ARE PRESENT WITHIN THE EXCAVATIONS. BASED ON THESE OBSERVATIONS, THE GEOTECHNICAL ENGINEER OR TECHNICIANS WOULD EITHER APPROVE THE BEARING SURFACES OR RECOMMEND MODIFICATIONS TO IMPROVE STABILITY.



GRAPHIC SCALE



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Engineers, Inc. 1137 Gravel Pike Zieglerville, PA 19492

First Capital Engineering, Inc. 48 South Richland Avenue York, PA 17404 Schade Engineering, Inc

929 Glenbrook Avenue

Bryn Mawr, PA 19010

Distribution Date No.

PENNSYLVANIA GAME COMMISSION

TRAINING WING ADDITION

GENERAL NOTES

Issue Date: **DECEMBER 16, 2022** Project Number: PGC-HQ-22-01

Drawing Number

UTILITIES

CAPITAL REGION WATER 60 3003 N. FRONT ST. HARRISBURG, PA 17110

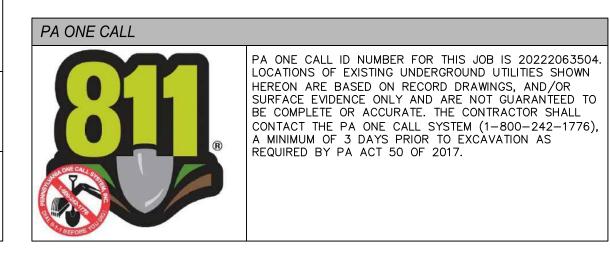
PHONE: 888-510-0606

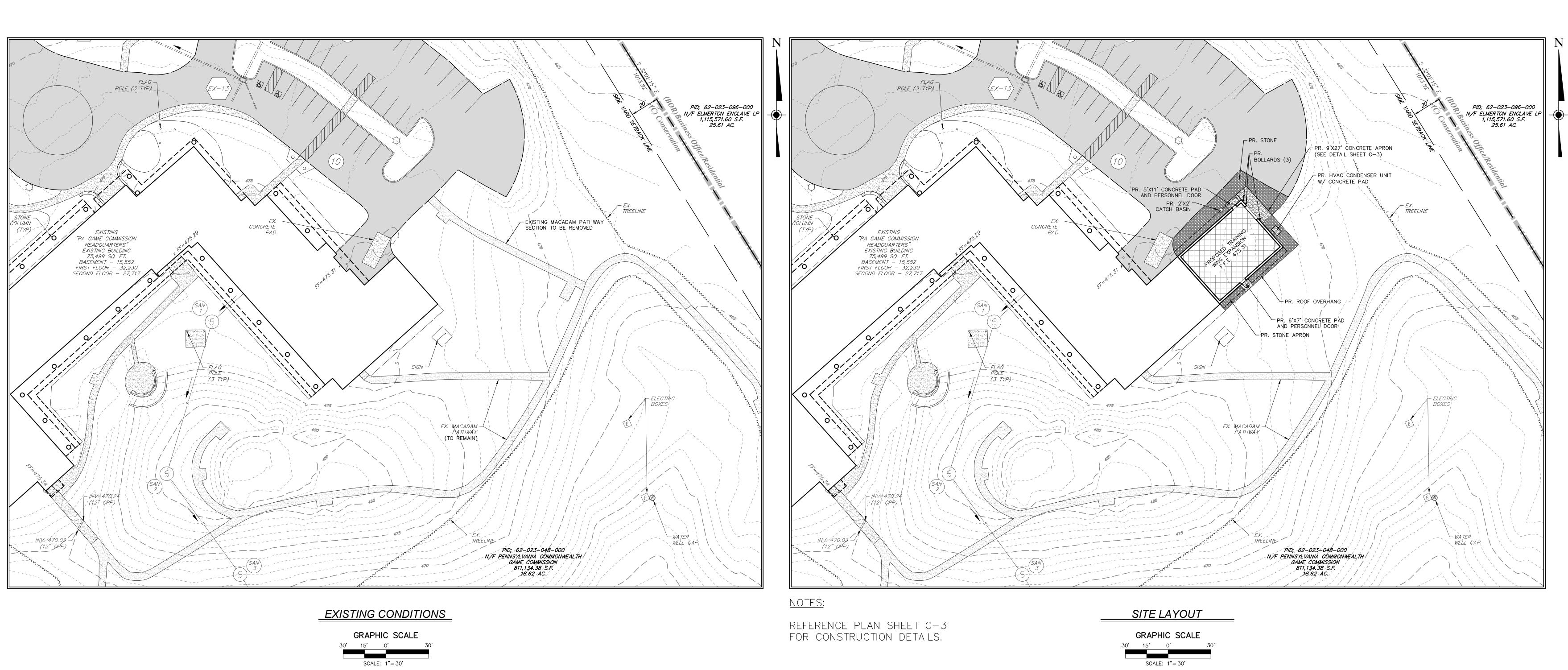
COMCAST CABLE/XFINITY

4650 JONESTOWN RD. HARRISBURG, PA 17109 PHONE: 800-880-1077

1-800-XFINITY

VERIZON







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First Capital Engineering, Inc. 48 South Richland Avenue York, PA 17404

Schade Engineering, Inc 929 Glenbrook Avenue Bryn Mawr, PA 19010

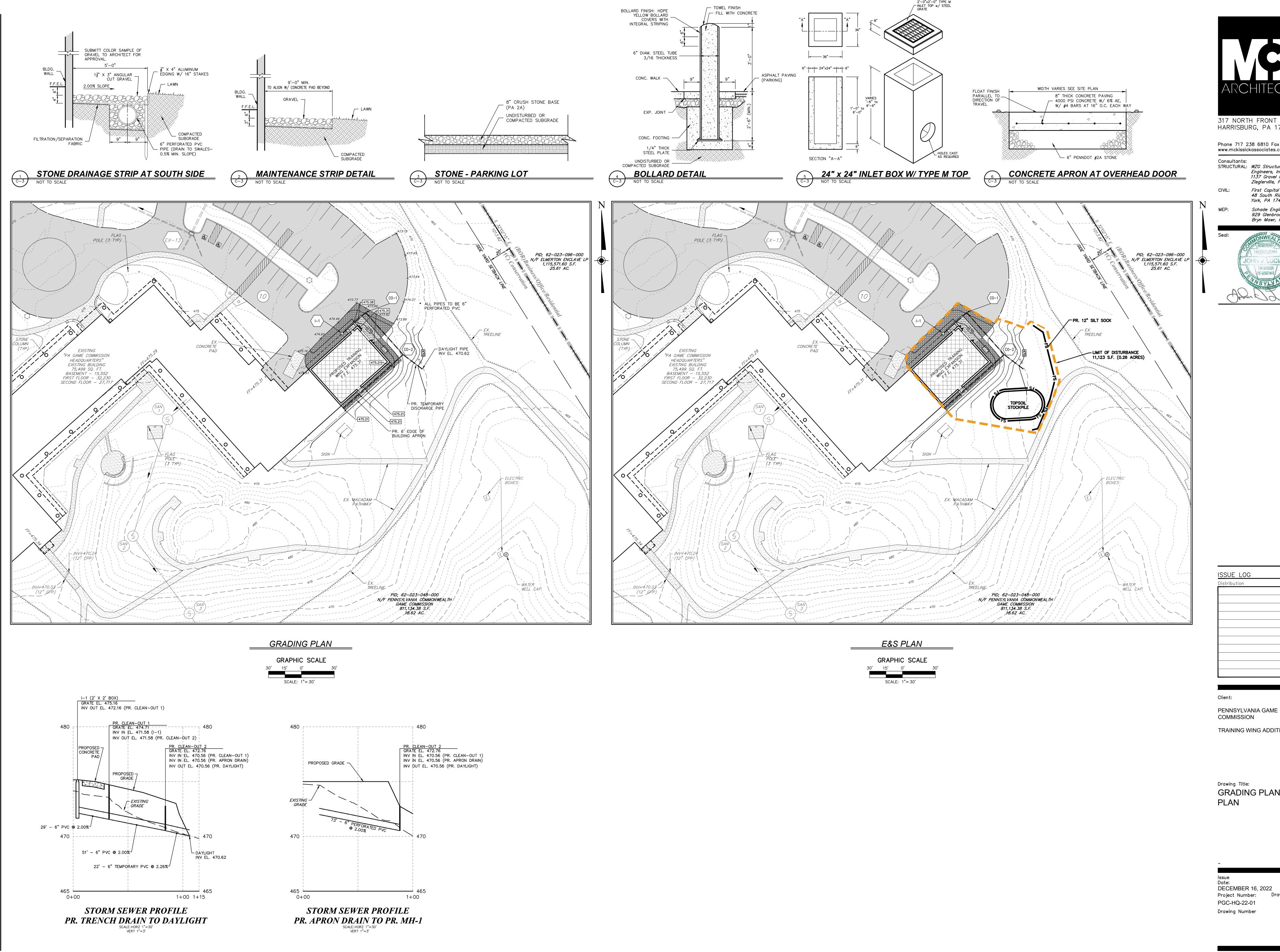
Date No.

PENNSYLVANIA GAME COMMISSION

TRAINING WING ADDITION

Drawing Title:
EXISTING CONDITIONS PLAN / LAYOUT PLAN

Issue Date: DECEMBER 16, 2022 Project Number: Drawn by: PGC-HQ-22-01 Drawing Number



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Schade Engineering, Inc 929 Glenbrook Avenue Bryn Mawr, PA 19010

Date No.

TRAINING WING ADDITION

GRADING PLAN / E&S

Issue Date: DECEMBER 16, 2022 Project Number:

TEMPORARY CONTROL MEASURES:

- 1. REVIEW AND AUTHORIZATION BY THE COUNTY CONSERVATION DISTRICT SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES.
- 2. TEMPORARY VEGETATION SHALL BE ESTABLISHED ON ALL SLOPES, ON STOCKPILED TOPSOIL AND ON ALL DISTURBED AREAS LEFT UNSTABILIZED FOR PERIODS LONGER THAN 4 DAYS. AREAS OF DISCONTINUED EARTHMOVING ACTIVITY SHALL ALSO BE IMMEDIATELY STABILIZED.
- 3. DURING CONSTRUCTION, THE AMOUNT OF DISTURBED SOILS SHALL BE KEPT TO A MINIMUM AND, WHENEVER POSSIBLE, A SUITABLE VEGETATIVE BUFFER WILL BE MAINTAINED AROUND ALL CONSTRUCTION AREAS.
- 4. ALL EARTHMOVING ACTIVITIES SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA.
- 5. RESPONSIBILITY FOR IMPLEMENTING EROSION AND SEDIMENTATION CONTROL SHALL BE DESIGNATED TO A MINIMUM
- OF ONE INDIVIDUAL WHO WILL BE PRESENT AT THE PROJECT SITE DAILY.
- 6. ALL SOIL STOCKPILES ARE TO BE IMMEDIATELY SEEDED WITH A TEMPORARY GRASS COVER.
- SET PARALLEL TO GRADE TO REDUCE RUNOFF. 8. UPON GENERAL COMPLETION OF THE FINAL GRADING, TOPSOIL SHALL BE PLACED AND FINAL-GRADING PASSES

7. WHENEVER POSSIBLE, PLACE ALL EXCAVATED MATERIAL UPSLOPE FROM DISTURBED AREAS. STOCKPILES SHALL BE

- SHALL BE MADE PERPENDICULAR TO THE DIRECTION OF RUNOFF.
- 9. RE—SEED AND REESTABLISH ANY BARREN AND DISTURBED AREAS NOT HAVING ESTABLISHED GROUND COVER.
- SEDIMENT FROM ENTERING INTO ADJACENT PROPERTIES, ROADWAY AND WATERWAYS.

10. FILTER SOCK SHALL BE PLACED AT CRITICAL EROSION AREAS, AS SHOWN ON THE PLAN, IN ORDER TO PREVENT

11. FILTER SOCK SHALL BE PLACED END TO END, SECURELY STAKED IN PLACE, AND MAINTAINED UNTIL THE AREA IS

12. WHERE DUST OR WIND EROSION IS A PROBLEM, THE UNSTABLE SURFACE(S) SHALL BE SPRINKLED WITH WATER OR

- OTHER SUITABLE DUST SUPPRESSOR; HOWEVER, WASHING OF ROADWAYS IS NOT PERMITTED. 13. ANY WATER PUMPED FROM ANY EXCAVATION, FOR ANY REASON, SHALL BE DIRECTED THROUGH A SEDIMENT FILTER
- BAG (DIRT BAG) CONFORMING TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. 14. THE CONTRACTOR SHALL EMPLOY MEASURES DURING CONSTRUCTION TO PREVENT SPILLS OF FUELS OR

LUBRICANTS. IF A SPILL OCCURS, IT SHALL BE CONTROLLED IMMEDIATELY TO PREVENT ITS ENTRY INTO NEARBY

- 15. WHEN THE ENGINEER, TOWNSHIP OFFICIAL, OR COUNTY CONSERVATION DISTRICT OFFICIAL DETERMINES THAT EROSION CONTROL MEASURES ARE NECESSARY, THAT WERE NOT FORESEEN IN THE DESIGN STAGE, SAID OFFICIAL SHALL ESTIMATE THE EROSION POTENTIAL AND SELECT MEASURES ON THE BASIS OF BOTH COST EFFECTIVENESS
- AND THE CONSEQUENCES OF THE EROSION AND THE PERMITTEE SHALL IMMEDIATELY COMPLY WITH SAID
- 16. ANY TEMPORARY EROSION CONTROL MEASURE APPLIED TO EXPOSED SOIL SURFACES SHALL REMAIN FUNCTIONAL UNTIL VEGETATED COVER IS SUFFICIENTLY ESTABLISHED.
- 17. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE SUBJECT TO APPLICABLE REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 102 RULES AND REGULATIONS. 18. SHOULD ANY ADDITIONAL EROSION OR SEDIMENTATION OCCUR DURING CONSTRUCTION. OR QUESTIONS REGARDING

THE MAINTENANCE CONTROL PRACTICES ARISE, CONTACT THE COUNTY CONSERVATION DISTRICT AT (717)

EROSION RESISTANT STAND OF VEGETATION. TEMPORARY SEEDING SPECIFICATIONS ARE CONTAINED IN THIS REPORT.

- 19. PERMANENT SEEDING AND MULCHING WILL BE INCORPORATED INTO THE CONSTRUCTION PHASES DURING THE APPROVED PLANTING SEASON.
- 20. ALL AREAS DISTURBED BY CONSTRUCTION, OTHER THAN THOSE RECEIVING CONCRETE OR BITUMINOUS PAVING OR OTHER TYPE OF IMPERVIOUS COVER, SHALL BE STABILIZED BY APPLYING A SEED MIXTURE TO ESTABLISH AN

PERMANENT CONTROL MEASURES:

THE SITE OF THE CONSTRUCTION ACTIVITY AT ALL TIMES.

- 1. PERMANENT SOIL PROTECTION WILL BE COMPLETED AS EARLY AS PRACTICAL.
- 2. ALL EXISTING STORM WATER DEVICES ARE TO BE INSPECTED DAILY AND CLEANED OUT AS NECESSARY.
- 3. ALL SEDIMENT CONTROL DEVICES ARE TO REMAIN UNTIL ALL DISTURBED AREAS ARE FULLY STABILIZED.
- 5. EACH STAGE OF EARTHMOVING ACTIVITIES MUST BE COMPLETED PRIOR TO INITIATING SUBSEQUENT STAGES.

4. TEMPORARY AND PERMANENT SEEDING SHALL ADHERE TO THE SPECIFICATIONS PROVIDED IN THIS REPORT.

- 6. ALL EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED WEEKLY AND AFTER ALL MEASURABLE
- 7. THE PERMITTEE AND ANY CO-PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT THAT HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN
- 8. APPROVED SOIL EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE REPORTS MUST BE AVAILABLE AT
- 9. IF FUEL OR OTHER DANGEROUS CHEMICALS ARE STORED ON SITE, THEN A PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN MUST BE DEVELOPED AND KEPT ON SITE.

SOIL LIMITATION NOTES

PRECIPITATION EVENTS.

HEALTH OR THE ENVIRONMENT

REFERENCE GEOTECHNICAL ENGINEERING REPORT, DATED DECEMBER 5, PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. FOR FULL EXPLANATION OF SOIL CONDITIONS AT THE PROJECT SITE. IN GENERAL, THE FOLLOWING MEASURES SHOULD BE FOLLOWED: SITE PREPARATION AND PROOFROLLING: THE GEOTECHNICAL ENGINEER OR AN EXPERIENCED SOILS TECHNICIAN SHOULD OBSERVE

THE SITE AFTER IT HAS BEEN STRIPPED AND EXCAVATED. THE GEOTECHNICAL ENGINEER/SOILS TECHNICIAN SHOULD DETERMINE IF ANY UNDERCUTTING OR IN-PLACE DENSIFICATION IS NECESSARY TO PREPARE A SUBGRADE FOR FILL PLACEMENT OR FOR SLAB

FILL PLACEMENT AND COMPACTION: THE GEOTECHNICAL ENGINEER OR AN EXPERIENCED SOILS TECHNICIAN SHOULD OBSERVE ANY REQUIRED FILLING OPERATIONS AND SHOULD TAKE SUFFICIENT IN-PLACE DENSITY TESTS TO DOCUMENT THAT THE SPECIFIED DEGREE OF FILL COMPACTION IS ACHIEVED. HE/SHE SHOULD OBSERVE AND DOCUMENT ANY BORROW MATERIALS USED AND DETERMINE IF THEIR EXISTING MOISTURE CONTENTS ARE SUITABLE.

FOOTING EXCAVATION INSPECTIONS: THE GEOTECHNICAL ENGINEER OR AN EXPERIENCED SOILS TECHNICIAN SHOULD OBSERVE THE FOOTING EXCAVATIONS FOR THE PROPOSED FOUNDATIONS. HE/SHE SHOULD DOCUMENT THAT THE DESIGN BEARING PRESSURE IS AVAILABLE AND THAT NO UNSUITABLE CONDITIONS ARE PRESENT WITHIN THE EXCAVATIONS. BASED ON THESE OBSERVATIONS, THE GEOTECHNICAL ENGINEER OR TECHNICIANS WOULD EITHER APPROVE THE BEARING SURFACES OR RECOMMEND MODIFICATIONS TO

GEOLOGIC FORMATIONS

ACCORDING TO THE PENNSYLVANIA STATE GEOLOGIC SURVEY, <u>ATLAS OF PRELIMINARY GEOLOGIC QUADRANGLES</u>, 1981, THE PROJECT SITE NOT UNDERLAIN WITH BY KARST GEOLOGY, AS VERIFIED BY FIELD INVESTIGATION. THERE ARE NO KARST FEATURES ON OR WITHIN 500 FEET THE PROJECY SITE.

RECYCLING OF BUILDING MATERIALS

ALL BUILDING MATERIALS AND CONSTRUCTION WASTE SHALL BE REMOVED FROM THE SITE AND RECYCLED AND/OR PROPERLY DISPOSED IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS, 25 PA. CODE \$260.1 ET SEQ., \$271.1 ET SEQ., AND \$287.1 ET SEQ. NO BUILDING MATERIAL OR CONSTRUCTION WASTE OR OTHER UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE PROJECT SITE.

STAGING OF MAJOR CONSTRUCTION ACTIVITIES

- THE FOLLOWING IS THE RECOMMENDED STAGING OF MAJOR CONSTRUCTION ACTIVITIES FOR THE PROJECT. 1. 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, APPROPRIATE 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
- 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.

REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

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 BY THE LOCAL

CONSERVATION DISTRICT AT AN ON-SITE PRECONSTRUCTION MEETING.

- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- 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 MA 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 THE
- 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 AFFECTED BY A SPILL OR

RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

- CLEAN FILL IS DEFINED AS FOLLOWS: UNCONTAMINATED, NONWATER-SOLUBLE, NONDECOMPOSABLE, INERT SOLID MATERIAL USED TO LEVEL AN AREA OR BRING AN AREA TO GRADE. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH. ALTHOUGH THE PLACEMENT OF CLEAN FILL IN OR ON WATERS OF THE COMMONWEALTH CANNOT BE MANAGED UNDER MANAGEMENT OF FILL POLICY, PLACEMENT OF CLEAN FILL IN OR ON WATERS OF THE COMMONWEALTH MAY BE APPROVED UNDER A SEPARATE DEP AUTHORIZATION. THE TERM INCLUDES ONLY THOSE MATERIALS THAT ARE IDENTIFIED AS "FILL," AS THE TERM IS DEFINED IN THE MANAGEMENT OF FILL POLICY. THE TERM DOES NOT INCLUDE FILL THAT HAS BEEN BLENDED, MIXED OR TREATED WITH THE PURPOSE OF MEETING THE DEFINITION OF "CLEAN FILL" AND THAT WITHOUT BEING BLENDED, MIXED OR TREATED WOULD FAIL TO MEET THE NUMERIC LIMITS IDENTIFIED IN THE DEFINITION OF "UNCONTAMINATED MATERIAL" CONTAINED IN THE MANAGEMENT OF FILL POLICY.
- 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 OF 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO SEEDING.
- 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.
- 11. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHODS.
- 13. THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY
- STAKES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.). 14. UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3
- DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES. THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT.
- INITIAL EROSION AND SEDIMENTATION CONTROL MEASURES AND BMPS MUST BE CONSTRUCTED, STABILIZED AND OPERATIONAL BEFORE ANY EARTH DISTURBANCE WHICH IS TRIBUTARY TO THOSE MEASURES BEGINS.
- CLEAR AND GRUB, REMOVE TOPSOIL, PERFORM NECESSARY INITIAL GRADING AND INSTALL THE ROCK CONSTRUCTION ENTRANCE AT THE POINT OF ENTRANCE INTO THE SITE. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE ONTO ANY ADJACENT ROADWAYS OR
- 17. INSTALL ALL FILTER SOCK BARRIERS ALONG THE SITE PERIMETER AS SHOWN ON THE PLAN.
- 18. CONDUCT SITE DEMOLITION ACTIVITIES AND REMOVE ALL WASTE FROM THE SITE IN ACCORDANCE WITH THE DEP
- 19. CONSTRUCT STORM SEWER AS SHOWN ON PLAN. IMMEDIATELY INSTALL INLET PROTECTION AT LOCATIONS 20. CLEAR AND GRUB THE ENTIRE SITE. STRIP TOPSOIL AND STOCKPILE IN THE DESIGNATED TEMPORARY AREA AS
- SHOWN ON THE PLAN. PLACE FILTER SOCK AROUND THE STOCKPILE. APPLY TEMPORARY SEEDING TO THE PROCEED WITH BULK SITE EXCAVATION AND ROUGH GRADING ACTIVITIES ON THE ENTIRE SITE AND BRING THE
- SITE AREAS TO SUBGRADE ELEVATIONS WHILE MAINTAINING PERIMETER E&S BMPS REGULARLY MONITOR AND MAINTAIN ALL EROSION CONTROL FEATURES TO INSURE THEY ARE FULLY FUNCTIONAL. AS AREAS OF THE SITE REACH SUBGRADE ELEVATION, APPROPRIATE STABILIZATION SHALL BE APPLIED TO FILL SLOPES, LAWN AREAS, ETC. TO MINIMIZE ACCELERATED EROSION
- 22. MILL EXISTING PAVEMENT AS SPECIFIED ON THE PLANS.

SPECIFICATIONS PRESENTED ON THE PLAN.

- ONCE THE SITE IS BROUGHT TO SUBGRADE ELEVATIONS, CONSTRUCT THE SANITARY SEWER BUILDING LATERAL SYSTEM. ALSO, INSTALL ALL OTHER UTILITY SERVICE LINES AND OTHER RELATED UNDERGROUND WORK AT THIS TIME. ALL WORK SHOULD BE LIMITED ONLY TO WHAT CAN BE COMPLETED, REPAVED AND/OR STABILIZED (I.E. APPLY PERMANENT SEED MIX, MULCH AND MATTING IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS PRESENTED ON THE PLAN) IN A SINGLE WORKING DAY. ANY WATER PUMPED FROM UTILITY TRENCHES SHALL BE DIRECTED TO A SEDIMENT REMOVAL FACILITY SUCH AS A FILTER BAG OR APPROVED
- 24. PLACE SUBBASE MATERIAL TO STABILIZE THE SITE DRIVEWAY AS SOON AS PRACTICABLE. THIS WILL ELIMINATE THE ROCK CONSTRUCTION ENTRANCE.
- 25. CONTINUE WITH GENERAL SITE CONSTRUCTION AND CONSTRUCTION OF OTHER LOCALIZED SITE ITEMS SUCH AS UTILITY CONNECTIONS.
- INSTALL BITUMINOUS BINDER COURSE ON THE SITE DRIVEWAY ONCE MAJOR CONSTRUCTION AND ALL UTILITY CONSTRUCTION ARE SUBSTANTIALLY COMPLETED 27. INSTALL BITUMINOUS WEARING COURSE..
- CONDUCT FINE GRADING ACTIVITIES AND PLACE TOPSOIL ON ALL REMAINING AREAS. INSTALL SOILS AMENDMENTS PER PROJECT REQUIREMENTS AND PROCEDURES PRESENTED ON THE APPROVED PCSM PLAN. APPLY PERMANENT SEEDING, SOIL SUPPLEMENTS, MULCHING AND MATTING WHERE APPLICABLE IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS PRESENTED ON THE PLAN. INSTALL FINAL LANDSCAPING AND PLANTINGS PER PROJECT REQUIREMENTS AND PROCEDURES PRESENTED ON THE APPROVED PCSM PLAN.
- 29. REMOVE ALL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE THE SITE IS STABILIZED (70 PERCENT UNIFORM STABILIZATION) SUCH AS ROCK FILTERS, FILTER SOCKS AND THE LIKE. PERMANENTLY RE-SEED, MULCH AND MAT WHERE APPLICABLE ANY REMAINING AREAS WHICH REMAIN DISTURBED OR HAVE NOT BEEN ESTABLISHED FROM PREVIOUS SEEDING APPLICATIONS IN ACCORDANCE WITH THE PERMANENT SEEDING
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE DAUPHIN COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY BMPS, INSTALLATION OF ALL PERMANENT PCSM BMPS AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION.

SEEDING SPECIFICATIONS

VEGETATIVE STABILIZATION: ALL DISTURBED AREAS THAT HAVE NOT OTHERWISE BEEN STABILIZED AND HAVE SIGNIFICANT POTENTIAL FOR EROSION SHOULD BE STABILIZED WITH VEGETATION. WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS. THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON. HOWEVER, THE AREA WILL NOT BE CONSIDERED STABILIZED UNTIL A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED.

AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND MULCHING TO BEGIN. IN NO CASE SHOULD AN AREA EXCEEDING 15.000 SQUARE FEET. WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE.

TOPSOIL APPLICATION: TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 8". IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

1. TEMPORARY SEEDING SHALL CONSIST OF 100 PERCENT ANNUAL RYE GRASS AND SHALL CONFORM TO THE REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS FOR FORMULA E SEED MIXTURE. SEED SHALL BE APPLIED AT A RATE OF 10 LBS./1,000 SQ. YDS. SEED SHALL BE APPLIED BETWEEN THE DATES OF MARCH 15TH TO OCTOBER 15TH.

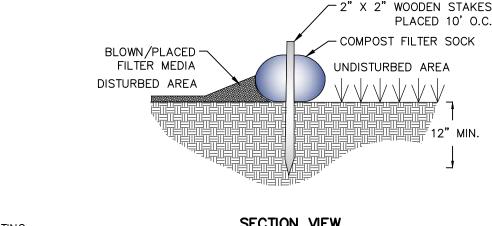
2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING:

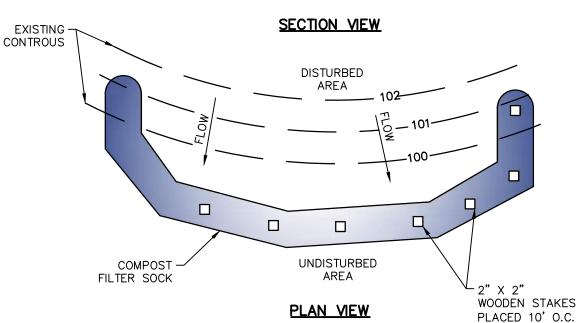
a. LAWN AREAS — SEED WITH 20% PERENNIAL RYEGRASS MIXTURE (A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NOT ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT), 30% CREEPING RED FESCUE OR CHEWINGS FESCUE, AND 50% KENTUCKY BLUEGRASS MIXTURE (A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NOT ONE VARIETY EXCEEDING 25% OF THE TOTAL BLUEGRASS COMPONENT). SEED SHALL BE APPLIED AT A RATE OF 21 LBS./1,000 SQ. YDS. SEED SHALL BE APPLIED BETWEEN THE DATES OF MARCH 15TH TO JUNE 1ST AND AUGUST 16TH TO OCTOBER 15TH.

NOTE: FILL SLOPES SHOULD BE SEEDED AND MULCHED AT REGULAR VERTICAL INCREMENTS (15-25' MAXIMUM) AS THE FILL IS BEING CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING FINAL STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE SLOPE.

1. MULCHING SHALL BE PROVIDED AS REQUIRED IN AREAS DIFFICULT TO VEGETATE, AND DURING OFF-SEASON OPERATIONS. MULCHING METHODS AND MATERIALS SHALL CONFORM TO THE FOLLOWING:

- a.MULCH MATERIALS SHALL BE UNROTTED SALT HAY, HAY OR SMALL GRAIN STRAW APPLIED AT THE RATE OF 3 TONS PER ACRE. MULCH BLOWER SHALL NOT GRIND OR CHOP THE MATERIAL. WOODCHIPS, FREE OF INSECTS AND DISEASE ARE PERMITTED AT A RATE OF 4-6 TONS PER ACRE.
- b.MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% TO 95% OF THE SOIL SURFACE WILL BE COVERED.
- c.MULCH ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE SLOPE.
- i. PEG AND TWINE DRIVE 8" TO 10" PEGS TO WITHIN 2" TO 3" OF THE SOIL SURFACE EVERY 4' IN ALL DIRECTIONS. TAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE THE MULCH TO THE SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS OR SQUARE PATTERN, AND SECURE THE TWIN AROUND EACH BEG WITH TWO OR MORE ROUND TURNS.
- ii. MULCH NETTING STAPLE PAPER, JUTE, COTTON OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE DEGRADABLE NETTING IN AREAS TO BE MOWED.
- iii.MULCH MATERIALS AND BINDERS SHALL BE ROLLED IN PLACE BY TRACKED VEHICLE OR OTHER SUITABLE
- d.APPLICATIONS SHOULD BE HEAVIER AT EDGES WERE WIND CATCHES THE MULCH. IN VALLEYS AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.
- e.WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 LBS PER ACRE, OR PER MANUFACTURER RECOMMENDATION, MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- f. WHERE EXCESSIVE SOIL EROSION, TRACKING OR FLOWING OF SEDIMENT IS EVIDENT OR ANTICIPATED, A MINIMUM OF 4" OF CRUSHED STONE SHALL BE PLACED WITHIN THE AFFECTED AREA AND MAINTAINED UNTIL PERMANENT STABILIZATION IS PROVIDED. ADDITIONAL STONE SHALL BE PLACED AS REQUIRED UNTIL STABILIZATION IS ACHIEVED. CRUSHED STONE SHALL CONFORM TO AASTO DESIGNATION M43. SIZE NO. 2 (2-1/2" TO 1-1/2").





SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT (FIGURE 4.1). MAXIMUM SLOPE LENGTH ABLOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 4.2. STAKES MAY BE INSALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY HE

TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED FISEWHERE IN THE PLAN

MANUFACTURER.

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 FILTER SOCK SHALL BE PLACED AFTER 6 MONTHS;

PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPTLENE 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 MULCH SPREAD AS A

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

MAINTENANCE OF E&S CONTROL DEVICES

THE SOIL EROSION AND SEDIMENTATION CONTROLS UTILIZED IN THE DEVELOPMENT OF THIS PLAN SHALL BE ROUTINELY MAINTAINED IN ORDER TO KEEP THEM FUNCTIONING PROPERLY UNTIL SITE STABILIZATION OCCURS. THE CONTRACTOR SHALL PERFORM CERTAIN PERIODIC DUTIES IN ORDER TO ASSURE PROPER CONTROL. MAINTENANCE OF THE VARIOUS EROSION AND SEDIMENTATION CONTROLS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING GENERAL MAINTENANCE PROCEDURES OUTLINED BELOW.

MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION MEASURES AFTER EACH SIGNIFICANT RUNOFF EVENT AND ON A WEEKLY BASIS BY A QUALIFIED PERSON TRAINED AND EXPERIENCED IN EROSION AND SEDIMENTATION CONTROL AND WHO HAS SITE SUPERVISION RESPONSIBILITIES, TO ASCERTAIN THAT THE EROSION CONTROL MEASURES ARE OPERATIONAL AND EFFECTIVE IN PREVENTING SEDIMENT FROM LEAVING THE SITE. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE: A SUMMARY OF SITE CONDITIONS, BMPS AND COMPLIANCE, AND THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INCLUDING THE COMPLIANCE ACTIONS, DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG SHALL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE CONSERVATION DISTRICT UPON REQUEST.

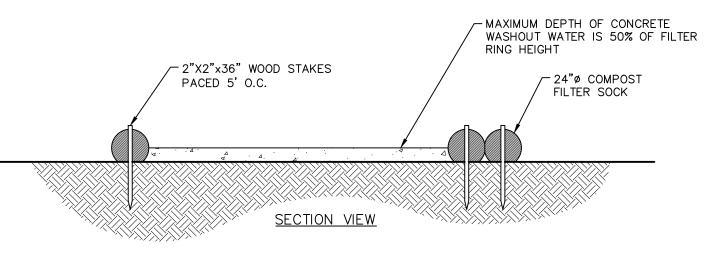
MISCELLANEOUS ADJUSTMENTS AND CORRECTIONS SHALL BE MADE TO ANY EROSION CONTROL STRUCTURE AS DEEMED NECESSARY BY THE ENGINEER, TOWNSHIP OFFICIAL, OR COUNTY CONSERVATION DISTRICT REPRESENTATIVE IN ORDER TO CORRECT UNFORESEEN PROBLEMS CAUSED BY A STORM PRIOR TO STABILIZATION.

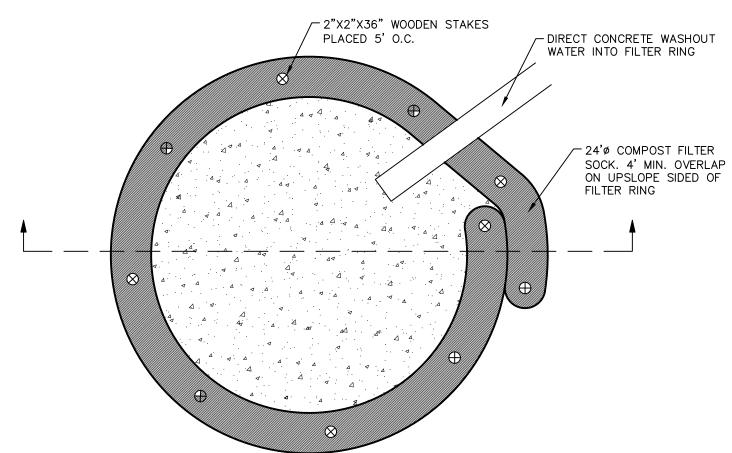
FILTER SOCK:

- 1. THE FILTER SOCK SHALL BE INSPECTED AFTER EVERY PRECIPITATION EVENT. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
- 2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS REQUIRED TO KEEP THE DEVICES FUNCTIONAL. IN ALL CASES, REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/2 ABOVE THE GROUND HEIGHT OF THE DEVICE.
- 3. ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR OR BASE SHALL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIAL.
- 4. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING FILTER SOCK.
- 5. ANY DEBRIS ACCUMULATED AT SILT SOCK BARRIERS SHALL BE REMOVED AND PROPERLY DISPOSED IN A RESPONSIBLE MANNER. BARRIERS SHALL BE CHECKED AND REALIGNED OR RESET AS REQUIRED. ANY DEBRIS OR SOLID WASTE MATERIAL ACCUMULATED FROM CONSTRUCTION ACTIVITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED LANDFILL. CONSTRUCTION WASTE SHALL NOT BE BURIED ON THE SUBJECT SITE.

STOCKPILE AREA:

- 1. IMMEDIATELY APPLY TEMPORARY SEEDING AND MULCH TO THE STOCKPILE AREA TO STABILIZE.
- 2. COMPOST SOCK MUST BE PLACED ON THE DOWNSLOPE SIDE OF THE STOCKPILE AREA.
- 3. THE STOCKPILE SHALL BE A MAXIMUM OF 35' IN HEIGHT WITH AND HAVE MAXIMUM 2:1 SLOPES.





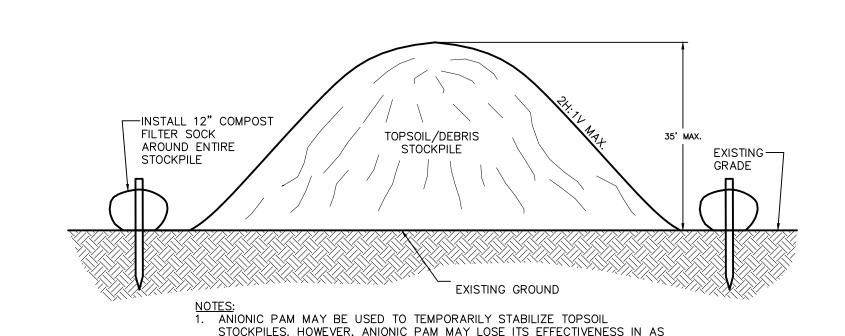
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.

2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS I

PLAN VIEW

COMPOST SOCK WASHOUT DETAIL

PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



LITTLE AS 2 MONTHS. THEREFORE, REAPPLY MIXTURE AS NECESSARY.

TOPSOIL / DEBRIS STOCKPILE



317 NORTH FRONT STREET HARRISBURG, PA 17101

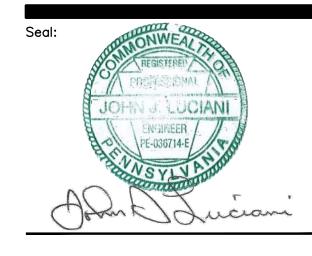
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York, PA 17404 Schade Engineering, Inc 929 Glenbrook Avenue Bryn Mawr, PA 19010



ISSUE LOG Distribution Date No.

PENNSYLVANIA GAME COMMISSION TRAINING WING ADDITION

Drawing Title: **E&S NOTES**

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