

PROTECTION, AS APPLICABLE. C.INSTALL OUTLET CONVEYANCE SYSTEMS BEGINNING AT THE DOWNSTREAM STRUCTURE AND PROCEEDING

UPSTREAM. INSTALL THE PERMANENT OUTLET STRUCTURES PER THE DETAILS PRESENTED ON THE PLAN. AS ADDITIONAL CONVEYANCE SYSTEMS TRIBUTARY TO BMP #5, 6, & 7 ARE CONSTRUCTED, IMMEDIATELY INSTALL

D. SHOULD ANY SEDIMENT ENTER THE FACILITY BEFORE PERMANENT STABILIZATION OF THE TRIBUTARY AREAS TO BMPS #5. 6 & 7. REMOVING THE EXCESS SOIL OR PROVIDE SOIL AMENDMENTS TO RESTORE THE DESIGN

PROTECTION AS SHOWN ON PLAN TO PREVENT SEDIMENT FROM ENTERING THE FACILITY.

ADDITIONAL CONVEYANCE SYSTEMS TRIBUTARY TO BMP #4 ARE CONSTRUCTED, IMMEDIATELY INSTALL INLET MADE AVAILABLE TO THE CONSERVATION DISTRICT UPON REQUEST PROTECTION AS SHOWN ON PLAN TO PREVENT SEDIMENT FROM ENTERING THE FACILITY. SOIL COMPACTION WITHIN THE INFILTRATION BEDS OF BMP #4 SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE.

24. CRITICAL STAGE: CONSTRUCT PERMANENT BMP #9 AND AS PER THE DETAILS PRESENTED ON THE PLAN. INSTALL THE OUTLET CONVEYANCE SYSTEM BEGINNING AT THE DOWNSTREAM STRUCTURE AND PROCEEDING UPSTREAM. AS ADDITIONAL CONVEYANCE SYSTEMS TRIBUTARY TO BMP #9 ARE CONSTRUCTED, IMMEDIATELY INSTALL INLET FILTER SOCK PROTECTION AS SHOWN ON PLAN TO PREVENT SEDIMENT FROM ENTERING THE FACILITY.

UP WITH BRICKS TO ALLOW RUNOFF TO ENTER THE STORM SEWER CONVEYANCE SYSTEMS TRIBUTARY TO THE SEDIMENT BASINS PRIOR TO CURB INSTALLATION AND PAVING OCCURRING. PROVIDE MASTIC OR EQUIVALENT IN ALL INLETS LOCATED WITHIN GRASSED AREAS TO PREVENT SOIL FROM WASHING INTO THE STORM SEWER THROUGH UNSEALED JOINTS IN THE INLET BOX AND TOP. ALL STORM SEWER PIPING SHALL BE PERIODICALLY FLUSHED TO ANY WATER PUMPED FROM STORM SEWER TRENCHES SHALL BE DIRECTED TO A SEDIMENT REMOVAL FACILITY SUCH

26. ONCE THE BUILDING PAD IS BROUGHT TO SUBGRADE ELEVATIONS, BUILDING CONSTRUCTION MAY NOW COMMENCE

TEMPORARY SEDIMENT BASIN C & D INTO PERMANENT BMPS #3 & #5 RESPECTIVELY. IMMEDIATELY INSTALL INLET

ASSOCIATED WITH PHASE II HAS BEEN COMPLETED PER THE DESIGN DRAWINGS PRIOR TO PROCEEDING TO PHASE III.

29. COMPLETELY DEWATER TEMPORARY SEDIMENT BASIN C & D. ANY WATER PUMPED FROM THE FACILITIES SHALL BE DIRECTED TO A SEDIMENT REMOVAL FACILITY SUCH AS A FILTER BAG OR APPROVED EQUAL. CLEANOUT ANY 2. SEDIMENT FROM THE FACILITIES. REMOVE THE SKIMMERS, STONE LANDING BERMS, CLEANOUT STAKES, AND TEMPORARY OUTLET STRUCTURES. COMPLETELY SEAL THE OUTLET PIPE CONNECTION IN THE DOWNSTREAM

AND BUILDING SEWER LATERALS. AS ADDITIONAL STORMWATER SYSTEMS (5-2 TO 5-6, 5-4 TO 5-4C, 5-4 TO 5-4B, 34-0 ARE CONSTRUCTED, IMMEDIATELY INSTALL INLET PROTECTION AS SHOWN ON THE PLAN TO PREVENT SEDIMENT FROM ENTERING THE FACILITY. ALSO, INSTALL ALL OTHER UTILITY SERVICE LINES AND OTHER RELATED UNDERGROUND WORK AT THIS TIME. ANY WATER PUMPED FROM UTILITY TRENCHES SHALL BE DIRECTED TO A SEDIMENT REMOVAL FACILITY SUCH AS A FILTER BAG OR APPROVED EQUAL. WHEN PERFORMING ANY OFFSITE 2 UTILITY WORK, ONLY TRENCHING WORK THAT CAN BE COMPLETED AND PERMANENTLY STABILIZED EACH WORKING DAY SHALL BE PERFORMED IN ORDER TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREA. DURING TRENCHING, STOCKPILE MATERIAL UPSLOPE OF THE TRENCH. PERMANENT STABILIZATION INCLUDES 3

TRUCK STORAGE AREAS AND PARKING AREAS AS SOON AS PRACTICABLE. THIS WILL ELIMINATE THE ROCK CONSTRUCTION ENTRANCE AND THE NEED TO PROP UP INLET TOPS WITH BRICKS. THIS WILL ALSO ELIMINATE THE 5

PARKING AREAS ONCE MAJOR EXTERIOR BUILDING CONSTRUCTION AND ALL UTILITY CONSTRUCTION ARE

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.

AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION

STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS PRESENTED ON THE PLAN. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS SHOULD

COMPLETELY STABILIZED, CONVERT TEMPORARY SEDIMENT BASIN A & B INTO PERMANENT BMP #1 & #2 PER THE DETAILS PROVIDED ON THE PCSM PLAN. THE CONTRACTOR SHALL CONTACT THE CONSERVATION DISTRICT AND TOWNSHIP ENGINEER AT LEAST 24 HOURS PRIOR TO THE START OF ANY BASIN CONVERSION TO FACILITATE CONSTRUCTION OBSERVATION. OVER EXCAVATE SEDIMENT BASIN A & B BY A MINIMUM OF 6" TO AN ELEVATION OF 570.50 AND 562.5 RESPECTIVELY OR TO A GREATER DEPTH AS DICTATED BY OVERSEEING ENGINEER DURING 3. CHANNEL BEHIND BERM SHALL HAVE POSITIVE GRADE TO OUTLET AN APPROPRIATE PROTECTIVE LINING. CONSTRUCTION IN ORDER TO PREVENT CLOGGING OF THE UNDERLYING SOIL. PROVIDE SOIL AMENDMENTS AS

A.REMOVE THE SKIMMER AND STONE LANDING BERM, BAFFLES, AND CLEANOUT MARKER FROM TEMPORARY SEDIMENT BASIN A & B. PLACE THE TOP INLET GRATE ONTO THE PERMANENT OUTLET STRUCTURE. REMOVE ALL SEDIMENT FROM THE FACILITIES AND EITHER INCORPORATE INTO THE SITE OR DISPOSE OF IN ACCORDANCE WITH DEP REGULATIONS. REMOVE THE TEMPORARY STEEL PLATES FROM THE PERMANENT ORIFICES. ATTACH PERMANENT GALVANIZED STEEL PLATES WITH A WATERTIGHT CONNECTION TO THE TEMPORARY CIRCULAR

B. EXCAVATE AREAS FOR PERMANENT BMP #1 & #2 TO FINAL ELEVATION PER THE DETAILS PROVIDED ON THE PCSM PLAN. SOIL COMPACTION WITHIN THE INFILTRATION BEDS OF BMP #1 & #2 SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. INSTALL THE FINAL TOPSOIL MIXTURE AND APPLY PERMANENT SEEDING PER THE PROJECT SPECIFICATIONS FOR BMP #2. IMMEDIATELY STABILIZE THE BMP #2 INTERNAL AND EXTERNAL SLOPES WITH THE PRESCRIBED SEED MIX, MULCH, MATTING, AND SLOPE PROTECTION, AS APPLICABLE.

C.INSPECT LEVEL SPREADERS #1, #2, & #3 AND REMOVE ANY EXCESS SEDIMENT ACCUMULATED DURING

38. REMOVE ALL SECONDARY EROSION AND SEDIMENTATION CONTROL MEASURES ONCE THE SITE IS STABILIZED (70 PERCENT UNIFORM STABILIZATION) SUCH AS DIVERSION SWALES/BERMS, FILTER SOCK, INLET PROTECTION, 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

ALL PERMANENT PCSM BMP'S, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONTACT THE LOCAL COUNTY CONSERVATION DISTRICT FOR A FINAL INSPECTION.

41. WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN. OR UPON SUBMISSION OF THE NOT IF SOONER. THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF

SEEDING SPECIFICATIONS MAINTENANCE OF E&S CONTROL DEVICES VEGETATIVE STABILIZATION ALL DISTURBED AREAS THAT HAVE NOT OTHERWISE BEEN STABILIZED AND HAVE SIGNIFICANT POTENTIAL FOR EROSION EROSION AND SEDIMENTATION CONTROLS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING GENERAL MAINTENANCE SHOULD BE STABILIZED WITH VEGETATION. THIS INCLUDES GRADED AREAS WHERE IT IS ANTICIPATED THAT FUTURE EARTHMOVING WILL TAKE PLACE WITHIN THE COMING YEAR. AREAS THAT WILL BE SUBJECT TO EARTHMOVING WITHIN 12 MONTHS MAY BE STABILIZED WITH TEMPORARY SEED MIXTURES. PREDOMINANTLY ANNUAL GRASSES, ALL OTHERS MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION MEASURES AFTER EACH SIGNIFICANT SHOULD BE STABILIZED WITH PERMANENT SEED MIXTURES, PREDOMINANTLY PERENNIAL GRASSES. WHEN FINAL GRADE VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED. AND THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION. ALL SITE INSPECTIONS WILL BE AS DISTURBED AREAS WITHIN A PROJECT APPROACH FINAL GRADE, PREPARATIONS SHOULD BE MADE FOR SEEDING AND DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE INCLUDING THE COMPLIANCE ACTIONS, DATE, TIME AND MULCHING TO BEGIN. IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY COMPLETED BEFORE MAKING PREPARATIONS FOR SEEDING AND MULCHING IS NOT ACCEPTABLE. DEEMED NECESSARY BY THE ENGINEER, TOWNSHIP OFFICIAL, OR COUNTY CONSERVATION DISTRICT REPRESENTATIVE IN TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 8". REQUIRED SOIL AMENDMENTS SHOULD BE WORKED INTO THE SOIL TO A DEPTH OF 4"-6", 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 1. THE FILTER SOCK SHALL BE INSPECTED AFTER EVERY PRECIPITATION EVENT. ANY NECESSARY REPAIRS WILL BE EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED MADE IMMEDIATELY. PREPARATION. ACCUMULATED SEDIMENT SHALL BE REMOVED AS REQUIRED TO KEEP THE DEVICES FUNCTIONAL. IN ALL CASES, IL AMENDMENTS REMOVE DEPOSITS WHERE ACCUMULATIONS REACH ½ ABOVE THE GROUND HEIGHT OF THE DEVICE. TEMPORARY SEEDING - APPLY AGRICULTURAL LIME AT A RATE OF 1 TON PER ACRE AND 10-10-10 FERTILIZER AT A COMPACTED BACKFILL MATERIAL. RATE OF 500 LBS. PER ACRE. PERMANENT SEEDING - APPLY AGRICULTURAL LIME AT A RATE OF 6 TONS PER ACRE AND 10-20-20 FERTILIZER AT A RATE OF 1,000 LBS. PER ACRE. 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 NOTE: A COMPOST BLANKET WHICH MEETS THE ABOVE STANDARDS MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS. DISPOSED OF IN AN APPROVED LANDFILL. CONSTRUCTION WASTE SHALL NOT BE BURIED ON THE SUBJECT SITE. ROCK CONSTRUCTION ENTRANCE SEEDING: THE STRUCTURE'S THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. TEMPORARY SEEDING SHALL CONSIST OF 100 PERCENT ANNUAL RYE GRASS AND SHALL CONFORM TO THE A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON SITE FOR THIS PURPOSE. AT THE END OF EACH REQUIREMENTS OF THE PA DEPARTMENT OF TRANSPORTATION (PADOT) SPECIFICATIONS FOR FORMULA E SEED CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE MIXTURE. SEED SHALL BE APPLIED AT A RATE OF 10 LBS./1,000 SQ. YDS. SEED SHALL BE APPLIED BETWEEN THE SITE. WASHING OF THE ROADWAY IS NOT PERMITTED. DATES OF MARCH 15TH TO OCTOBER 15TH. ROCK CONSTRUCTION ENTRANCES SHALL BE CLEANED AND REDRESSED WHEN VOIDS BECOME CHOKED WITH MUD AND SEDIMENT. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING: LAWN AREAS - SEED WITH 20% PERENNIAL RYEGRASS MIXTURE (A COMBINATION OF IMPROVED CERTIFIED PUMPING AND PENETRATING INTO THE STRUCTURE. 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 SEDIMENT BASIN: 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. IDENTIFIED BY APPROPRIATE STRUCTURE OR DEVICE WITHIN THE SEDIMENT BASIN TO INDICATE WHEN SEDIMENT REMOVAL OR DISPOSAL OPERATIONS ARE NECESSARY MEADOW - SEED WITH ERNST CONSERVATION SEEDS MESIC TO DRY NATIVE POLLINATOR MIX (ERNMX-105) DIVERSION SWALES TRIBUTARY TO THE SEDIMENT BASIN SHALL BE REGULARLY CLEANED AND RE-SHAPED TO AT A RATE OF 20 LBS/ACRE WITH A COVER CROP OF 30 LBS/ACRE OF GRAIN OATS (1 JAN TO 31 JULY) OR GRAIN MAINTAIN THE DESIGN DIMENSION AND CAPACITY. RYE (1 AUG TO 31 DEC) SEDIMENT WILL NOT BE ALLOWED TO ENTER THE WATERS OF THE COMMONWEALTH DURING EITHER SEDIMENT REMOVAL OR DISPOSAL OPERATIONS. STORMWATER/BMP SEED MIX SWM/BMP FACILITIES - SEED WITH ERNST CONSERVATION SEEDS NATIVE DETENTION AREA MIX (ERNMX-183) AT A RATE OF 20 LBS/ACRE WITH A COVER CROP OF 30 LBS/ACRE OF GRAIN RYE (1 SEP TO 30 APR; 30 LBS/ACRE), JAPANESE MILLET (1 MAY TO 31 AUG; 10 LBS/ACRE). ROCK OUTLETS SHALL BE MAINTAINED IN THE POSITION AND TO THE DIMENSION AS SHOWN ON THE DETAIL, ANY WETLANDS - SEED WITH ERNST CONSERVATION SEEDS OBL-FACW PERENNIAL FOOD & COVER WETLAND MIX SLIDING OR DISPLACEMENT OF ROCKS SHALL BE IMMEDIATELY CORRECTED. THE FILTER SOCK SHALL BE MAINTAINED (ERNMX-120) AT A RATE OF 20 LBS/ACRE WITH A COVER CROP OF 30 LBS/ACRE OF GRAIN RYE (1 SEP TO 30 IN ITS DESIGNED POSITION AND ANY EXCESS SEDIMENT FROM THE SURFACE OF THE ROCK EMBANKMENT SHALL BE APR; 30 LBS/ACRE), JAPANESE MILLET (1 MAY TO 31 AUG; 10 LBS/ACRE), OR BARNYARD GRASS (1 MAY TO 31 REMOVED AND THE ROCK REDRESSED. AUG; 10 LBS/ACRE). . THE SEDIMENT BASIN SHALL BE MONITORED AND SEDIMENT SHALL BE REMOVED FROM THE BASIN AND PROPERLY DISPOSED OF WHEN IT REACHES THE SPECIFIED CLEAN-OUT ELEVATION. 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. FACILITY. MULCHING: UMPED WATER FILTER BAG: 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 REPLACED AND THE SEDIMENT SHALL BE PROPERLY DISPOSED. 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. WELL VEGETATED AREAS AND THAT THE OUTFLOW IS BEING DISCHARGED TO A STABLE, EROSION RESISTANT AREA. B. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% TO 95% OF TOP OF SLOPE BERM THE SOIL SURFACE WILL BE COVERED.

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 PROCEDURES OUTLINED BELOW. RUNOFF EVENT AND ON A WEEKLY BASIS BY A QUALIFIED PERSON TRAINED AND EXPERIENCED IN EROSION AND IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT SEDIMENTATION CONTROL AND WHO HAS SITE SUPERVISION RESPONSIBILITIES, TO ASCERTAIN THAT THE EROSION PLANTING SEASON. HOWEVER, THE AREA WILL NOT BE CONSIDERED STABILIZED UNTIL A MINIMUM UNIFORM 70% OUTLET CONVEYANCE SYSTEM BEGINNING AT THE DOWNSTREAM STRUCTURE AND PROCEEDING UPSTREAM. AS CONTROL MEASURES ARE OPERATIONAL AND EFFECTIVE IN PREVENTING SEDIMENT FROM LEAVING THE SITE. A WRITTEN ADDITIONAL CONVEYANCE SYSTEMS TRIBUTARY TO BMP #3 ARE CONSTRUCTED, IMMEDIATELY INSTALL INLET REPORT OF EACH INSPECTION SHALL BE KEPT AND INCLUDE: A SUMMARY OF SITE CONDITIONS, BMPS AND COMPLIANCE, ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE 23. CRITICAL STAGE: CONSTRUCT PERMANENT BMP #4 AND AS PER THE DETAILS PRESENTED ON THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION. THE INSPECTION LOG SHALL BE KEPT ON SITE AT ALL TIMES AND VEGETATION. REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. WAITING UNTIL EARTHMOVING IS MISCELLANEOUS ADJUSTMENTS AND CORRECTIONS SHALL BE MADE TO ANY EROSION CONTROL STRUCTURE AS TOPSOIL APPLICATION: ORDER TO CORRECT UNFORESEEN PROBLEMS CAUSED BY A STORM PRIOR TO STABILIZATION. PREVENT EXCESSIVE SEDIMENT AND DEBRIS ACCUMULATIONS FROM BUILDING UP WITHIN PIPES AND STRUCTURES. 3. ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR OR BASE SHALL BE REPAIRED IMMEDIATELY WITH 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 STRUCTURE AND FILL THE OUTLET PIPES WITH FLOWABLE FILL. ABANDON THE OUTLET PIPES IN PLACE AND BEGIN 3. GEOTEXTILE FABRIC SHALL BE INSTALLED UNDER ALL ROCK CONSTRUCTION ENTRANCES TO KEEP SOIL FROM TO 34-3, 31-0 TO 31-2, 33-0 TO 33-4, 33-1 TO 33-5, 31-7 TO 31-8, 9-0 TO 9-2, 9-1 TO 9-1A, 31-7 TO 31-8, AND 12-1 TO 12-2) 1. A "CLEAN-OUT" ELEVATION WILL BE CLEARLY INDICATED ON THE PLAN DRAWINGS. THIS ELEVATION WILL BE CONSTRUCT SITE CURBING AND PLACE SUBBASE MATERIAL TO STABILIZE THE SITE DRIVEWAYS, TRUCK COURTS, 4. SEDIMENT BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES. 7. ALL EMBANKMENT CONSTRUCTION SHALL REMAIN WATERTIGHT AND FREE FROM EROSION OR PIPING OF SOILS. . UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED 1. FILTER BAGS SHALL BE INSPECTED DAILY. IMMEDIATELY DISPOSE OF BAGS WHICH ARE SPLIT OR TORN. 2. DO NOT USE BAGS WHICH ARE GREATER THAN 1/2 FULL. WHEN BAGS REACH THAT CAPACITY, THEY SHALL BE TO PERMANENT PCSM BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS MUST BE 3. REGULARLY INSPECT THE OPERATION OF FILTER BAGS TO ENSURE THAT THEY ARE LOCATED ON RELATIVELY FLAT,

- TEMPORARY BERMS SHALL BE PLACED, MAINTAINED, AND ADJUSTED CONTINUOUSLY UNTIL 90% VEGETATIVE GROWTH IS ESTABLISHED ON THE EXTERIOR SLOPES WITH PERMANENT STORM DRAINAGE FACILITIES FUNCTIONING. BERMS SHALL OUTLET TO SLOPE PIPES, CHANNELS, OR OTHER APPROVED MEANS OF CONVEYING RUNOFF TO A
- SEDIMENT TRAP, SEDIMENT BASIN, OR COLLECTOR CHANNEL.
- 4. BERM SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
- 5. AN ACCEPTABLE ALTERNATIVE TO TOP OF SLOPE BERM IS TO CONTINUOUSLY GRADE THE TOP OF FILL TO DIRECT RUNOFF AWAY FROM THE FILL SLOPE TO A COLLECTOR CHANNEL, SEDIMENT TRAP, OR SEDIMENT BASIN. TEMPORARY DIVERSION CHANNEL
- ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.
- CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITH 48 HOURS OR DISCOVERY.
- 3. NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY. ROCK FILTER:
- IF BERM BECOMES CLOGGED, IMMEDIATELY REPLACE WITH NEW STONE OR REMOVE, WASH, AND REPLACE STONE FILTER CLEANING OR REPLACEMENT STONE SHALL BE DONE ON A DAY WHEN THERE IS NO PRECIPITATION. A SUPPLY OF STONE SHALL BE MAINTAINED ON THE SITE FOR REPLACEMENT.
- REMOVE SEDIMENT WHEN IT ACCUMULATES A DEPTH OF 6" AGAINST THE BERM BASE. PLACE SEDIMENT ON THE TOPSOIL STOCKPILE.
- 3. ROCK FILTER SHOULD BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
- CLOGGED FILTER STONE (AASHTO #57) SHOULD BE REPLACED.
- NEEDED REPAIRS SHOULD BE INITIATED IMMEDIATELY AFTER THE INSPECTION.

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.

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 FACH BEG WITH TWO OR MORE ROUND TURNS

DEGRADABLE NETTING IN AREAS TO BE MOWED. MULCH MATERIALS AND BINDERS SHALL BE ROLLED IN PLACE BY TRACKED VEHICLE OR OTHER SUITABLE

MULCH NETTING - STAPLE PAPER, JUTE, COTTON OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE

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.

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 AASHTO DESIGNATION M43. SIZE NO. 2 (2-1/2" TO 1-1/2").

GEOLOGIC SOIL FORMATIONS & POTENTIAL POLLUTION

ACCORDING TO THE PENNSYLVANIA GEOLOGIC SURVEY'S ATLAS OF PRELIMINARY GEOLOGIC QUADRANGLES, FOURTH SERIES, 1981, THE PROJECT SITE IS UNDERLAIN BY THE HAMBURG SEQUENCE AND THE LIMESTONE OF HAMBURG SEQUENCE (GEOLOGIC SYMBOLS OH AND OHL, RESPECTIVELY). THE PROPERTY WITHIN ITS GEOLOGIC SETTINGS IS PRESENTED ON THE GEOLOGIC MAP (FIGURE 2) FOUND WITHIN THE APPENDIX OF THE GEOTECHNICAL REPORT. THE ENGINEERING CHARACTERISTICS OF THE ROCKS OF PENNSYLVANIA, SECOND EDITION, 1982, PUBLISHED BY THE PENNSYLVANIA STATE GEOLOGIC SURVEY, DESCRIBES THE ROCK IN THESE FORMATIONS AS TRANSPORTED ROCKS OF THE HAMBURG OVERTHRUST; GRAY, GREENISH-GRAY AND MAROON SHALE, SILTY AND SILICEOUS IN MANY PLACES, DARK-GRAY IMPURE SANDSTONE; MEDIUM TO LIGHT GRAY, FINELY CRYSTALLINE LIMESTONE AND SHALEY LIMESTONE.

THE SHALE IN THE FORMATIONS IS MODERATELY WELL BEDDED AND THIN, WHILE THE SANDSTONE IS WELL BEDDED AND THICK. THE LIMESTONE IS ALSO WELL BEDDED, BUT FLAGGY, SHALE FRACTURES FORM A SEAMY TO PLATY PATTERN, ARE WELL DEVELOPED, HIGHLY ABUNDANT; VARIABLY SPACED, OPEN AND STEEPLY DIPPING. SANDSTONE FRACTURES FORM A BLOCKY PATTERN, ARE WELL DEVELOPED, MODERATELY ABUNDANT; EVENLY SPACED, OPEN AND STEEPLY DIPPING. LIMESTONE FRACTURES FORM A PLATY PATTERN, ARE POORLY DEVELOPED, MODERATELY ABUNDANT; OPEN AND STEEPLY DIPPING.

THE SHALE IN THE FORMATIONS IS MODERATELY RESISTANT TO WEATHERING AND IS MODERATELY TO HIGHLY WEATHERED TO A DEEP DEPTH, RESULTING IN LOOSE RUBBLE OF PENCIL-LIKE FRAGMENTS TO RECTANGULAR PLATES. THE SANDSTONE IS MODERATELY RESISTANT WEATHERING AND IS MODERATELY WEATHERED TO A SHALLOW DEPTH, RESULTING IN MEDIUM TO LARGE. IRREGULAR

OFF-SITE DISPOSAL AREAS

EQUIPMENT

F. OTHER:

TO THE EXTENT THAT IT MAY BE NECESSARY TO EXPORT WASTE MATERIAL, EXCESS TOPSOIL, OR OTHER UNSUITABLE OR UNUSABLE MATERIAL FROM THE SITE, IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE AND ANY CO-PERMITTEE TO DISPOSE OF THE MATERIAL AT AN APPROVED AND PERMITTED SITE. OTHERWISE, A SOIL EROSION AND SEDIMENTATION CONTROL PLAN AND OTHER NECESSARY PERMIT APPLICATIONS AND MATERIALS SHALL BE SUBMITTED TO THE APPROPRIATE COUNTY CONSERVATION DISTRICT FOR APPROVAL PRIOR TO DISPOSAL REGARDLESS OF THE SITE LOCATION.

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. ANTICIPATED PROJECT WASTES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: DEMOLISHED BUILDING MATERIALS, TREES/SHRUBS TO BE REMOVED, VARIOUS PAVEMENT (BITUMINOUS/GRAVEL), DEMOLITION DEBRIS, EXCESS CONSTRUCTION MATERIALS, UNUSABLE FILL MATERIAL, ETC.

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REVISED PER DEP CHAPTER 102 AND CHAPTER 105 COMMENTS	REVISED PER CHAPTER 102 COMMENTS	REVISED PER CHAPTER 102 & 105 COMMENTS CWC	REVISED PER DEP ORIGINAL SUBMISSION #1 COMMENTS	REVISED PER TOWNSHIP COMMENTS SDG	REVISED PER TOWNSHIP COMMENTS	AS PER TOWNSHIP COMMENTS	REVISION
13/24	07/23	22/23	7/23	23/21	07/21	05/21	АТЕ
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	EROSION & SEDIMENTATION CONTROL DE	FOR	LID UV UQ IVMULDƏ IDIVI I UUDL Ə VƏVL	IIC AROLANDICTTONIT 000 & 404/	FOR	PROLOGIS	WEST HANOVER TOWNSHIP, DAUPHIN COUNTY, PENNSYLVANIA
		& Associates, LLC	EVELOPMENT CONSULTANTS	YORK OFFICE	227 W. MARKET STREET SUITE 104	YORK, PA 17401	cary.com 717.781.2929
P	RO	6 H Shyder · Secary ·	ENGINEERS • PLANNERS • D		2000 LINGLESTOWN ROAD SUITE 304	HARRISBURG, PA 17110 TSTAGER@PENNONI.COM	717.975.6481 w w w . s n y d e r s e
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THE REGION WH ANTICIPATED ANI PROJECT.	iere d Will	SIMILAF L GENEI	R SOI RALLY	LS AI ′BEI	re pf N acc	RESENT. N CORDANCE	O SPEC WITH C	CIAL GEOTI	CONS	STRUG	CTION REC	N METH OMMEN	IODS DATIC	or p Ns pi	ROCE ROVID	DUR ED F	ES ARE OR THE	1.	A COPY OF THE APPROVED DRAWI AVAILABLE AT THE PROJECT SITE AT
ANY ROCK ENCO AREAS OR REMO	UNTE VED F	RED WI	LL BE IE SITI	e ripf E.	PED C	R BLASTE	D AS N	ECES	SARY	΄, ΑΝΙ	o Usi	ED FOF	R COM	PACT	ed fii	L IN	OTHER	2.	WRITTEN SUBMITTAL OF THOSE CHAN BEFORE IMPLEMENTING ANY REVISIO
IN INFILTRATION F BOTTOM ELEVATI A BMP SOIL MIXTU LINER IS TO BE PL BED AREA THAT V	30TTOM ELEVATION OF THE FACILITY, THE BED SHALL BE OVER-EXCAVATED AT LEAST TWO (2) FEET AND PROVIDED WIT A BMP SOIL MIXTURE CAPABLE OF ACHIEVING AN INFILTRATION RATE BETWEEN 2-10 INCHES PER HOUR. A 6 INCH CLAY JINER IS TO BE PLACED BELOW THE TWO FOOT ZONE IN ANY AREA WHERE BEDROCK IS REMOVED. THE FACILITY BOTTO BED AREA THAT WILL REQUIRE OVER-EXCAVATION SHALL BE FIELD VERIFIED DURING CONSTRUCTION.								THE ED WITH CLAY OTTOM	3.	TO OTHER PLANS WHICH MAY AFFECT MUST RECEIVE APPROVAL OF THE REV CLEARING, GRUBBING, AND TOPSOIL THE CONSTRUCTION SEQUENCE.								
SLOPE WILL NOT GRADING PLAN AI HANDLED BY ERC	Г ВЕ ND TY ISION	AN ADV PICALLY	/ERSE / WILL OL MA	E FAC BE 3	TOR :1 OR G AND	TO CONS ⁻ FLATTER.	FRUCTIC ANY AC K ON TH	ON. S CELE	SLOPE RATE E.	S WI D RUI	LL B NOFF	E RE-S OR ER	HAPEI OSION) pef I Froi	R THE M SLO	PR(PES	OPOSED WILL BE	4.	COMMENCE IN ANY STAGE OR PHAS SEQUENCE FOR THAT STAGE OR PHAS AT NO TIME SHALL CONSTRUCTION V
DRAINAGE WITHIN	N THE	PROJE	CT AR	EA W	ILL BE	ACCOMMO	DDATED	BY P	ROP	DSED	GRA	DING, S	TORM	PIPIN	g ani) SW	ALES.	5	BOUNDARIES SHOWN ON THE PLAN CLEARING AND GRUBBING OPERATION
THE GROUND SU PLAN CONTAINED	RFAC HERE	E WILL I EIN.	be re	ESHAF	PED, C	OMPACTE	D AND S	STABI	ILIZE		NSIST	ENT W	ІТН ТН	IE PR	OPOS	ED G	RADING	5.	EROSION AND/OR SEDIMENT POLLUT POTENTIAL FOR EROSION AND SEDIM REGIONAL OFFICE OF DEP.
CORROSIVE SOIL EXTENT POSSIBLI	S, WH E.	ien idei	NTIFIE	ED, S⊦	IALL N	IOT BE PL/	ACED IN	I THE	VICIN	NITY C	of un	NDERGI	ROUNE) UTIL	ITY LI	NES,	TO THE	6.	SEDIMENT BASINS AND/OR TRAPS SH DEBRIS HAVING POTENTIAL TO CLC WATERS.
SOIL STRENGTH PLACED IN LIFTS A MINIMUM STAT	Shal Not e Fic w	L BE E EXCEED /EIGHT	ING 10	RED 0 INCI 0 TOI	THOUG HES IN NS. IN	GH PROPE	R COM	IPACT SS AN STRU	TION ND CC JCTU	TECH MPA(RAL	INIQU CTED FILL	JES. ST WITH A IS PLA	RUCT	URAL ATOR	FILL Y ROL	SHO LER	ULD BE HAVING D WITH	7.	ALL PUMPING OF SEDIMENT LADEN N WATER FILTER BAG OR EQUIVALEN DISCHARGE POINTS SHOULD BE ESTA
OPTIMUM LIFT TH THE REQUIRED P CHOSEN COMPAC MOISTURE CONTE OF THE SOILS' MA	ICKNE ERCE CTION ENT A	ESS AND INTAGE EQUIPN S DETER M DRY D	NUM COMF MENT. RMINE DENSI	ALL I DIACTI ALL I DIN /	DF RE ON V/ FILL S ACCO	PETITIVE F ALUES SHO HOULD BE RDANCE W	PASSES DULD BE PLACE	UITH E DET D AT, M D6	COM ERMI OR E	IPACT NED IEVIA ID CO	TION I IN TH TE NO	EQUIPM IE FIEL OMINAL CTED T	IENT N D WITH LY FR O THE	IECES I TES OM (± MININ	SARY T PAS 2%) T IUM P	TO A SES HE O ERC	ACHIEVE OF THE PTIMUM ENTAGE	8.	UNTIL THE SITE IS STABILIZED, ALL INSPECTIONS OF ALL E&S BMPS AFTE PREVENTATIVE AND REMEDIAL MAINT RESEEDING, REMULCHING AND RENE EXPECTED, REPLACEMENT BMPS, OR
SHOULD EXCAVA SHALL REMOVE T	TION / HE FF	ACTIVITI ROST-IM	ES O(PACTI	CCUR ED SC	DURI DILS P	NG WINTER RIOR TO P	R MONT LACEME	HS W	HEN I F FILI	FROS _ MAT	T AC ⁻ ERIA	TION M. L.	4Y OC(CUR, ⁻	THE C	ONTI	RACTOR	9.	SEDIMENT REMOVED FROM BMP'S D INCORPORATED INTO THE SITE GRADI
IN CUT AREAS, C AREAS OF SHALL CONSTRUCTION I	OVER-I OW E N THE	EXCAVA BEDROC E AREAS	TION K. SH OF IT	SHAL ALLO -3 TH	l be W bei Roug	Perform Drock Is H IT-9.	ed to Likely	ENSU TO BI	IRE T E ENI	HAT I COUN	PROF	PER SO ED FRC	IL ADH M 0' T	HESIO O 3' (N IS / DF DE	ACHII PTH	eved in During	10. 11.	A LOG SHOWING DATES THAT E&S B THEY WERE CORRECTED SHALL B CONSERVATION DISTRICT OR OTHER I SEDIMENT TRACKED ONTO ANY PUBL
AREAS TO BE FI ROOTS, AND OTH	lled Er oe	ARE TO BJECTIO) be (Nabli	CLEAF E MAT	red, (Feriai	GRUBBED, _ NEED TO	AND S ⁻ HAVE A	TRIPP .PPRC	PED C OPRIA	OF TO	PSOI &S CO	il to f Ontroi	EMOV .S.	e tre	EES, \	/EGE	TATION	12	BY THE END OF EACH WORK DAY AND SEDIMENT BE WASHED, SHOVELED, OF
ALL FILLS SHALL RELATED PROBLE IN ACCORDANCE	BE CO EMS. F WITH	ompact fill inte local f	ed A Endei Requ	S REC D TO S IREMI	QUIRE SUPP(ENTS	D TO REDI DRT BUILDI OR CODES	JCE ER NGS, S ⁻	OSION TRUC	N, SLI TURE	PPAG S, AN	e, se D CC	ETTLEN NDUIT:	ENT, S 5, ETC	SUBSI . SHAL	DENC .L BE	E OR COM	OTHER PACTED	12.	INSTALLED, BACKFILLED AND STABI DEPOSITED ON THE UPSLOPE SIDE OF
ALL EARTHEN FIL	LS SH	ALL BE	PLACI	ED IN	COMF	PACTED LA	YERS N	от то) EXC	EED	9 INC	HES IN	THICK	NESS				13. 14	CONCRETE WASH WATER SHALL BE SHALL IT BE ALLOWED TO ENTER ANY FAILURE TO CORRECTLY INSTALL F&
FILL MATERIALS S MATERIALS THAT FROZEN MATERIA	SHALL WOUI	. BE FRE LD INTEI R SOFT,	ee of Rferi Muck	FRO E WIT (Y, Of	zen f h or r high	ARTICLES PREVENT (ILY COMPF	, BRUSH CONSTR RESSIBL	I, ROC RUCTI E MA	OTS, ON O TERI <i>I</i>	SOD, F SAT ALS SI	OR C ISFA	OTHER CTORY NOT BI	Forei Fills. E inco	gn oi Rpof	R OBJ	ECTI	ONABLE D FILLS.		EARTH DISTURBANCE ACTIVITY, OR FA BMPS MAY RESULT IN ADMINISTR PENNSYLVANIA DEPARTMENT OF ENV CLEAN STREAMS LAW. THE CLEAN ST \$10,000 IN SUMMARY CRIMINAL PENA VIOLATION.
FILL SHALL NOT B			ISATI		D OR	FROZEN S	URFAC ပို့က	ES. g		VTION		E OF	NO		HOLE			15.	CLEAN FILL IS DEFINED AS: UNCONTAI THE TERM INCLUDES SOIL, ROCK, ST
SEEPS 여왕 SPRIN AND SPECIFICATI 등 성	CS TEANKAO	ORROSS NCRETE NCRETER	ERÈD SUR€A SUR€A				NCLUS	IALL VED N O		W PERCOC	D IN DNID NIDII	A TOPSOLRO	ROST ACE	HRINK/ SWEE	ENTIAL SINK		ANØARD ULI M		FROM CONSTRUCTION AND DEMOLITI AS SUCH. THE TERM DOES NOT INC UNLESS OTHERWISE AUTHORIZED. (T THAT HAS BEEN PROCESSED FOR RE-
ATKINS	ਹ x	C/S		EA	x	× SA	т х		X X	× SLO	x	С Х	ц Х	S	POTE		x	16.	 ANY PLACEMENT OF CLEAN FILL THA MUST USE FORM FP-001 TO CERTIFY TESTING TO QUALIFY THE MATERIAL PROPERTY RECEIVING THE FILL.
BASHER CHAVIES LEWISBERRY	X	C/S C C		x	X X	X	X	>	x x	X	X X X	X X	X X X				X X	17.	. ENVIRONMENTAL DUE DILIGENCE MU THE PROJECT QUALIFY AS CLEAN FILL INCLUDING, BUT NOT LIMITED TO, VIS PROPERTY, OWNERSHIP, REVIEW OF
CUTBANKS CAVE:			C RI	ONTR EDUC	ACTO E OR	R SHALL U ELIMINATE	SE THE E THE P	FOLL OTEN	_OWIN	IG CC FOR	ONST CUTE	RUCTIC BANK C	N TEC AVING	HNIQ . AS E	JES D EFINI	ESIG ED B	GNED TO Y OSHA		TRANSACTION SCREENS, ANALYTICAL NOT A REQUIRED PART OF DUE DILIG THE PROPERTY INDICATES THAT THE
			PI 1. 2. 3. 4	ROTE S S	CTIVE LOPIN ENCH HORII	IG THE GR ING THE GR NG THE CU	INCLUE OUND T ROUND TBANK	O REI TO R WITH	ie or Duce Educ Supf Ench	MOR THE E THI PORT BOX	E OF HEIG E HEI (PLA	The FC HT of Ight oi Nking	THE CU THE CU THE (DR HY	ING D JTBAN CUTBA DRAU	ESIGN IK. ANK. LIC JA	IS: CKS)	<u>M</u>	BE TESTED TO DETERMINE IF IT QUAL APPENDIX A OF THE DEPARTMENT'S P ATERIAL NOTES:
CORROSIVE:			Al C	LL UN OATIN		ROUND P	IPES, C MANUI		JITS, URED	AND FROI	STOF M CO	RAGE T	ANKS ON RE	SHAL SISTA	L BE NT M/	PRO ⁻	TECTIVE	1.	ALL BUILDING MATERIALS AND WAST ACCORDANCE WITH THE DEPARTMEN §§260.1 ET SEQ., 271.1, AND 287.1 ET. SHALL BE BURNED, BURIED, DUMPED,
EASILY ERODIBLE	:		EI Ai C	ROSIC CCOF OMPL	DN C RDANC ETEL	CONTROL E WITH I	MEASL PROVID ED.	IRES ED S	SH/ SCHEI		BE AND	MONIT PRO	ORED CEDUR	AND E UN	RO ITIL 1	UTIN HE	ELY IN SITE IS	2.	THE CONTRACTOR WILL BE RESPON SITE(S) RECEIVING THE EXCESS HAS PLAN THAT MEETS THE CONDITIONS C
FLOODING:				ONTR ONST OTTO CSM I THER	ACTO RUCT M SUI BMPS EXC	R SHALL E ION BY SI RFACES O SHALL BE AVATIONS	ENSURE OPING F PCSM SLOPE DURIN	POSI ALL I BMP D AS NG C	ITIVE SURF S, A DESI CONS	DRAI ACES MININ GNEE TRUC	NAGE 6, EX //UM 0. WA TION	E AT AL CEPT 1 OF 1% ATER C SHAL	L ARE FOR T THE OLLEC L BE	AS DI HE BI BOTTO TED I REM	Jring Jildin Dm Si N Tre Oved	ANE IG P JRFA NCH PR	D AFTER AD AND CES OF IES AND IOR TO	3.	THE CONTRACTOR IS RESPONSIBLE FP-001 MUST BE RETAINED BY THE PR A REGULATED SUBSTANCE BUT QUA COMPACTED AS REQUIRED TO REE PROBLEMS. FILL INTENDED TO SUPP ACCORDANCE WITH LOCAL REQUIREM
DEPTH OF SATUR	ATED	ZONE:	C G		ACTO	R SHALL TER ENCO	PROVI UNTER	DE N ED DI		SSAR SSAR	Y PL	JMPS TION.	and i Satur	PIPES	TO SOIL	D. DRA S SH	IN ANY IALL BE	4.	FILL MATERIALS SHALL BE FREE OBJECTIONABLE MATERIALS THAT WO
HYDRIC INCLUSIC	HYDRIC INCLUSIONS: CONTRACTOR SHALL UTILIZE CONSTRUCTION TECHNIQUES DESIGNED TO HANDLE ANY						5.	FROZEN MATERIALS OR SOFT, MUCK ^Y FILLS.											
LOW STRENGTH:	LOW STRENGTH: PRECAUTIONS SHOULD BE TAKEN TO PREVENT SLOPE FAILURE DUE TO IMPROPER CONSTRUCTION TECHNIQUES SUCH AS OVER-STEEPENING AND OVERLOADING OF						6. <u>PF</u>	FILL SHALL NOT BE PLACED ON SATUR											
SLOPES, REMOVAL OF LATERAL SUPPORT AND FAILURE TO PREVENT SATURATION OF SLOPES. AS DEFINED BY OSHA, PROTECTIVE SYSTEMS INCLUDE ONE OR MORE OF THE FOLLOWING DESIGNS:							1. 2.	COMPACTION OF THE BMP AREA SHAL E&S BMP'S SHALL BE INSTALLED AND TO PREVENT SEDIMENT FROM CLOGG											
 SLOPING THE GROUND TO REDUCE THE HEIGHT OF THE CUTBANK. BENCHING THE GROUND TO REDUCE THE HEIGHT OF THE CUTBANK. SHORING THE CUTBANK WITH SUPPORTS (PLANKING OR HYDRAULIC JACKS). SHEILDING THE CUTBANK (TRENCH BOX). 						3.	TO THE MAXIMUM EXTENT PRACTICAE HAS BEEN ACHIEVED ON ALL CONTRIB												
SLOW PERCOLAT	ION:	 CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AT ALL AREAS DURING AND AFTER CONSTRUCTION BY SLOPING ALL SURFACES, EXCEPT FOR THE BUILDING PAD AND BOTTOM SURFACES OF PCSM BMPS, A MINIMUM OF 1%. THE BOTTOM SURFACES OF PCSM BMPS SHALL BE SLOPES AS DESIGNED. WATER COLLECTED IN TRENCHES AND OTHER EXCAVATIONS DURING CONSTRUCTION SHALL BE REMOVED PRIOR TO 								<u>ST</u> 1.	TABILIZATION NOTES: TOPSOIL REQUIRED FOR THE ESTABL ON THE PLAN DRAWINGS IN THE AMO THAT ARE TO BE STABILIZED BY VEG								
PIPING:	CONTINUATION OR COMPLETION OF WORK WHERE WATER IS ENCOUNTERED. PRECAUTIONS SHOULD BE TAKEN, AS NECESSARY, TO PREVENT PIPING. CONSTRUCT ANTI-SEEP COLLARS AS DESIGNED FOR EACH PCSM BMP BASIN.									2.	OR FLATTER.								
POOR SOURCE O	DR SOURCE OF TOPSOIL: SOIL TESTS SHALL BE PERFORMED TO DETERMINE APPROPRIATE TOPSOIL FOR USE I LAWN AREAS.									R USE IN		INCHES OF TOPSOIL IN PLACE PRIOR INCHES OF TOPSOIL IN PLACE PRIOR INCHES OF TOPSOIL.							
FROST ACTION:	CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AT ALL AREAS DURING CONSTRUCTION AND AFTER CONSTRUCTION BY SLOPING ALL SURFACES, EXCEPT FOR THE BUILDING PAD AND BOTTOM SURFACES OF PCSM BMPS, A MINIMUM OF 1%. THE BOTTOM SURFACES OF PCSM BMPS SHALL BE SLOPED AS DESIGNED. WATEF COLLECTED IN TRENCHES AND OTHER EXCAVATIONS DURING CONSTRUCTION SHALL BE REMOVED PRIOR TO CONTINUE TION OF COMPLETION OF WATEF								3. 4.	UPON TEMPORARY CESSATION OF A CESSATION OF EARTH DISTURBANC MULCHED OR OTHERWISE PROTECTED DISTURBANCE ACTIVITIES. STRAW MULCH MUST BE APPLIED AT F									
SHRINK/SWELL:			El S'	NCOU TREN	INTER GTHE	ED. NED FOUN		NS M/	AY B	E UT	ILIZEI	D IF W	'ARRAI	NTED	BY A	CTU	AL SITE	5.	IMMEDIATELY AFTER APPLICATION TO ALL GRADED AREAS SHALL BE PERI
POTENTIAL SINKH	IOLES	5:	IN A N	IVEST SINK OTIFY	IGATI (HOLE (EN(UNS. TREATME GINEER, T	INT DE	TAIL I HIP A	IS PF AND	ROVID CON	ED (SERV	on the Ation	PLAN DIST	I. COI RICT	NTRA(IMME	CTOF DIAT	R SHALL FELY IF	6.	EROSION CONTROL BLANKETING SECONCENTRATED FLOWS, DISTURBED
PONDING:			SI	INKHC ONTR ONST		ARE ENCOU R SHALL		D. IRE ON!ST	POSI	TIVE	DR/ BY S		AT ۱۱۹	ALL URF^		AS ≣X∩⊑		7.	AREAS SPECIFIED ON THE PLAN MAPS
			TI BC BI EI	HE BU OTTO OLLE E REM	JILDIN M SL CTED MOVEI	IG PAD AN IRFACES IN TRENC D PRIOR T ED.	D BOTT OF PCS HES AN O CONT	OM S SM B D OT	SURF/ SMPS HER TION	ACES SHA EXCA OR C	OF F LL B VATIO	PCSM E E SLO ONS DU PLETION	MPS, PED / JRING	A MIN AS D CONS /ORK	IMUM ESIGN STRUC WHEF	OF ED. TION E W	1%. THE WATER N SHALL ATER IS		BLANKETING MUST BE APPLIED AT TH AND WHICH WILL BE RE-DISTURBED VEGETATIVE STABILIZATION SPECIFIC BE RE-DISTURBED WITHIN 1 YEAR STABILIZATION SPECIFICATIONS.
WETNESS:			Ci Ci Bi Ci	ONTR ONST HE BL OTTO OLLE	ACTO RUCT JILDIN M SU CTED	R SHALL ION AND A IG PAD AN IRFACES IN TRENC	ENSU FTER C D BOTT OF PCS HES AN	IRE ONST OM S SM B D OT	POSI RUC SURF/ MPS HER	TIVE FION I ACES SHAI EXCA	DRA BY SI OF F LL B VATIO	AINAGE LOPING PCSM E BE SLO ONS DI PLETIC	AT ALL S MPS, J PED J JRING	ALL URFA A MIN AS D CONS	ARE, CES, I IMUM ESIGN STRUC	AS EXCE OF ED. TION	DURING EPT FOR 1%. THE WATER N SHALL	8. o	PERMANENT STABILIZATION IS DEFIN PERMANENT NON-VEGETATIVE COVE SUBSURFACE CHARACTERISTICS SUF SHALL BE CAPABLE OF RESISTING FAIL
			E	NCOU	INTER	ED.				C	^س الالارب		J. V\	~	c ľ	vv	< 10	5.	THE SUBSOIL IS EXCESSIVELY WET,

EDIMENTATION CONTROL NOTES

PROJECT SITE AT ALL TIMES. THE COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE DISTRICT MAY REQUIRE A AL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

TING ANY REVISIONS TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR REVISIONS VHICH MAY AFFECT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR ROVAL OF THE REVISIONS FROM THE COUNTY CONSERVATION DISTRICT.

ON SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE CONSTRUCTION AT STAGE OR PHASE HAVE BEEN INSTALLED AND FULLY FUNCTIONAL.

CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE 1. WN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE JBBING OPERATIONS BEGIN.

SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE ROSION AND SEDIMENT POLLUTION AND NOTIFY THE YORK CONSERVATION DISTRICT AND/OR THE

AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER

SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED AG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS. SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.

STABILIZED, ALL E&S BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE LL E&S BMPS AFTER EACH RUNOFF EVENT OF 0.25 INCH OR MORE AND ON A WEEKLY BASIS. ALL LCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPS FAIL TO PERFORM AS EMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

ED FROM BMP'S DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS ON SITE AND TO THE SITE GRADING.

DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE RECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE COUNTY STRICT OR OTHER REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

D ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE CH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE HED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. FOR UTILITY LINE INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, ILLED AND STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE UPSLOPE SIDE OF THE TRENCH.

WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE ED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.

ECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CE ACTIVITY, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S LT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA AW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO RY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH

NED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. ES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE ION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE RM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH SE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT OCESSED FOR RE-USE.).

OF CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE P-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL IFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE

UE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH LIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, T LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF SHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, ERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH E DEPARTMENT'S POLICY "MANAGEMENT OF CLEAN FILL."

ERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN 71.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS BURIED, DUMPED, OR DISCHARGED AT THE SITE.

THE EXCESS HAS AN APPROVED AND FULLY IMPLEMENTED EROSION AND SEDIMENT CONTROL THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE OR FEDERAL REGULATIONS. IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM

TAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF 3STANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE 5. RESPONSIBILITY FOR IMPLEMENTING EROSION AND SEDIMENTATION CONTROL SHALL BE DESIGNATED TO A MINIMUM EQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED TENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN I LOCAL REQUIREMENTS OR CODES.

ATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. S OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO 8. UPON GENERAL COMPLETION OF THE FINAL GRADING, TOPSOIL SHALL BE PLACED AND FINAL-GRADING PASSES PLACED ON SATURATED OR FROZEN SURFACES.

HE BMP AREA SHALL BE AVOIDED AND MINIMIZED DURING CONSTRUCTION.

BE INSTALLED AND MAINTAINED DURING AND AFTER CONSTRUCTION OF THE INFILTRATION BMP'S IENT FROM CLOGGING OR FILLING THE PCSM BMP OR STORAGE FACILITY. EXTENT PRACTICABLE, PCSM BMP'S SHOULD BE CONSTRUCTED AFTER PERMANENT STABILIZATION D ON ALL CONTRIBUTING DRAINAGE AREAS.

VINGS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OFF ALL EXPOSED AREAS TABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON GS. TOPSOIL STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2H:1V

TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES OILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM OF 4 IL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2

CESSATION OF AN EARTH DISTURBANCE OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A RTH DISTURBANCE ACTIVITIES EXCEEDS 4 DAYS. THE SITE SHALL BE IMMEDIATELY SEEDED. RWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH

R APPLICATION TO PREVENT BEING WINDBLOWN.

AS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT ENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.

BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, ALL AREAS OF ON THE PLAN MAPS AND/OR DETAIL SHEETS

ER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING PERIODS, MULCH OR PROTECTIVE BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY LIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT 1. PERMANENT SOIL PROTECTION WILL BE COMPLETED AS EARLY AS PRACTICAL WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE

LIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER 3. ALL SEDIMENT CONTROL DEVICES ARE TO REMAIN UNTIL ALL DISTURBED AREAS ARE FULLY STABILIZED. VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS. NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION. WHEN GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO SEEDING.

CHANNEL NOTES

- APPROVED DRAWINGS (STAMPED SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE 1. ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES & WOODY DEBRIS, ACCUMULATED SEDIMENT, AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY, OR WOODY GROWTH.
 - . ANY UNDERGROUND UTILITIES RUNNING ACROSS/THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- NG, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF 3. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING. NPDES PERMIT NOTES:
 - PERMITTEE'S REQUESTING A RENEWAL OF COVERAGE UNDER GENERAL PERMIT MUST SUBMIT TO THE COUNTY CONSERVATION DISTRICT AN ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOI, AT LEAST 180 DAYS PRIOR TO THE EXPIRATION DATE OF THE COVERAGE.
- N DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED 2. PERMITTEE'S REQUESTING A RENEWAL OF COVERAGE UNDER INDIVIDUAL PERMIT MUST SUBMIT TO THE COUNTY CONSERVATION DISTRICT AN ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOI, AT LEAST 180 DAYS PRIOR TO THE EXPIRATION DATE OF THE COVERAGE.
- . ALL EARTHMOVING CONTRACTORS MUST BE ADDED AS CO-PERMITTEES TO THE NPDES PERMIT. OTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE 4. SITE INSPECTIONS AND MONITORING REPORTS - THE PERMITTEE AND CO-PERMITTEE(S) SHALL COMPLY WITH ALL OF THE MONITORING AND REPORTING REQUIREMENTS, AS OUTLINED IN PART A 2 OF THE NPDES PERMIT. THE PERMITTEE AND CO-PERMITTEE(S) SHALL ENSURE THAT SITE INSPECTIONS ARE CONDUCTED AT LEAST WEEKLY AND AFTER EACH MEASUREABLE PRECIPITATION EVENT BY QUALIFIED PERSONNEL. A WRITTEN REPORT SHALL BE KEPT
 - FOR EACH INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF PART A.2.A. 5. THE DEP "VISUAL INSPECTION CHECKLIST" SHOULD BE COMPLETED FOR EACH INSPECTION AND SHOULD BE AVAILABLE ON-SITE FOR INSPECTION BY DEP OR COUNTY CONSERVATION DISTRICT PERSONNEL
- D REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, 6. AFTER ALL EARTHMOVING ACTIVITY HAS CEASED AND THE ENTIRE PERMITTED AREA IS PERMANENTLY STABILIZED. THE PERMITTEE MUST A NOTICE OF TERMINATION TO COUNTY CONSERVATION DISTRICT TO CLOSE OUT THE PERMIT. ALLOWING THE NPDES PERMIT TO EXPIRE IS DETERMINED TO BE A VIOLATION OF THE NPDES PERMIT

THERMAL IMPACTS ANALYSIS

AS REQUIRED BY CHAPTER 102.8(F)(13), MEASURES HAVE BEEN TAKEN IN ORDER TO IDENTIFY POTENTIAL THERMAL IMPACTS FROM POST-CONSTRUCTION STORMWATER TO "SURFACE WATERS OF THE COMMONWEALTH" AND AVOID, MINIMIZE OR MITIGATE POTENTIAL POLLUTION FROM THERMAL IMPACTS BY UTILIZING ON-SITE BMPS. PLANNED SITE FEATURES FOR THE INDUSTRIAL FACILITY HAVE BEEN SELECTED AND DESIGNED TO MINIMIZE THERMAL IMPACTS, TO THE GREATEST EXTENT PRACTICABLE WITHIN THE PROJECT'S DISTURBED AREA, WHILE ALSO PROVIDING A MAIN OBJECTIVE OF BALANCING COMPETITIVE MARKET REQUIREMENTS FOR PROPERLY DESIGNED INDUSTRIAL SITES WITH THE STEWARDSHIP AND PROTECTION OF ENVIRONMENTAL RESOURCES THAT EXIST ON THE PROPERTY. CONSEQUENTLY. THE PROJECT DESIGN RESULTS IN A NET REDUCTION IN POTENTIAL IMPERVIOUS COVERAGE. THE RESULTING REDUCTION IN IMPERVIOUS COVERAGE ASSISTS WITH MINIMIZING THERMAL IMPACTS FROM THE PROJECT AS WELL AS ACCOMPLISHING ONE OF THE PROJECT'S MAIN OBJECTIVES OF PROVIDING EQUILIBRIUM BETWEEN INDUSTRIAL MARKET DEMANDS AND ENVIRONMENTAL RESOURCE MANAGEMENT.

IN ADDITION TO MINIMIZING THERMALS IMPACTS RESULTING FROM THE PROJECT TO THE GREATEST EXTENT PRACTICABLE, SEVERAL ENHANCED STORMWATER MANAGEMENT FEATURES AND WATER QUALITY FEATURES HAVE BEEN PLANNED TO MITIGATE THERMAL IMPACTS FROM THE DEVELOPMENT. NINE (9) BMPS HAVE BEEN STRATEGICALLY LOCATED ON THE SITE TO MANAGE BOTH STORMWATER QUALITY AND VOLUME. THESE BMPS HAVE BEEN DESIGNED AS WATER QUALITY FACILITIES COLLECTING ALL HEATED ON-SITE IMPERVIOUS AREAS AND PROVIDEING INFILTRATION/DETENTION/FILTRATION FOR THE ENTIRE 2-YEAR STORM VOLUME INCREASE GENERATED BY THE SITE. IMMEDIATELY FOLLOWING A STORM EVENT, AS THE FIRST FLUSH RUNOFF IS CONVEYED TO THESE FACILITIES, IT TRAVELS IN A DEEP UNDERGROUND ENVIRONMENT EXPERIENCING THERMAL COOLING BEFORE REACHING THE BMPS. FURTHERMORE, THE PROJECT PROPOSES TO PLANT VARIOUS DECIDUOUS/EVERGREEN TREES WHICH WILL HELP SHADE IMPERVIOUS PARKING AREAS. THEREFORE, WITH THE ADDITION OF THESE PLANTINGS COUPLED WITH THE AFOREMENTIONED BMPS, THE PROPOSED PROJECT MITIGATES THERMAL IMPACTS GENERATED BY THE SITE TO THE GREATEST EXTENT PRACTICABLE.

DURING CONSTRUCTION, EARTH DISTURBANCE ACTIVITIES WILL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE AS A RESULT OF THE PROJECT'S SEQUENCE OF CONSTRUCTION WHICH WILL MINIMIZE THERMAL IMPACTS. INITIALLY, RUNOFF FROM A LARGE PORTION OF THE SITE IS CONTROLLED BY FILTER SOCKS. THE FILTER SOCK WILL SLOW AND FILTER STORMWATER RUNOFF. ALLOWING FOR FURTHER INTERACTION TIME WITH UNDISTURBED GRASSED AREAS TO DECREASE STORMWATER TEMPERATURE. FURTHER, AS MAJOR CUT AND FILL OPERATIONS OCCUR AND THE STORM SEWER IS INSTALLED, THE MAJORITY OF THE SITE, AND ALL IMPERVIOUS SURFACES, WILL BE CONTROLLED BY SEDIMENT BASINS WHERE STORMWATER WILL COLLECT AWAY FROM IMPERVIOUS SURFACES, ALLOWING FOR FURTHER THERMAL

EROSION AND SEDIMENTATION CONTROL MEASURES

EENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS THE PROPOSED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SELECTED FOR THIS PROJECT WILL PRIMARILY ART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF CONSIST OF THE CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCES, FILTER SOCK, INLET PROTECTION, DICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A REGULATED TEMPORARY SEDIMENT BASINS/TRAPS, EROSION CONTROL MATTING, PUMPED WATER FILTER BAGS, DIVERSION SWALES, E FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST PIPE OUTLET PROTECTION, TOP OF SLOPE BERMS, AND TEMPORARY SEEDING AND MULCHING. TEMPORARY CONTROL MEASURES:

- 1. REVIEW AND AUTHORIZATION BY THE DAUPHIN COUNTY CONSERVATION DISTRICT SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES. H THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260. 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. WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE THE 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.
 - OF ONE INDIVIDUAL WHO WILL BE PRESENT AT THE PROJECT SITE DAILY.
 - ALL SOIL STOCKPILES ARE TO BE IMMEDIATELY SEEDED WITH A TEMPORARY GRASS COVER.
- SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR 7. WHENEVER POSSIBLE, PLACE ALL EXCAVATED MATERIAL UPSLOPE FROM DISTURBED AREAS. STOCKPILES SHALL BE SET PARALLEL TO GRADE TO REDUCE RUNOFF.
 - SHALL BE MADE PERPENDICULAR TO THE DIRECTION OF RUNOFF.
 - 9. RE-SEED AND REESTABLISH ANY BARREN AND DISTURBED AREAS NOT HAVING ESTABLISHED GROUND COVER.
 - 10. FILTER SOCK SHALL BE PLACED AT CRITICAL EROSION AREAS, AS SHOWN ON THE PLAN, IN ORDER TO PREVENT SEDIMENT FROM ENTERING INTO ADJACENT PROPERTIES, ROADWAY AND WATERWAYS. 11. FILTER SOCK SHALL BE PLACED END TO END, SECURELY STAKED IN PLACE, AND MAINTAINED UNTIL THE AREA IS STABILIZED.
 - 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. FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN 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 WATERWAYS.
 - 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 DIRECTIVES.
 - 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.
- T BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED 18. SHOULD ANY ADDITIONAL EROSION OR SEDIMENTATION OCCUR DURING CONSTRUCTION, OR QUESTIONS REGARDING THE MAINTENANCE CONTROL PRACTICES ARISE, CONTACT THE DAUPHIN COUNTY CONSERVATION DISTRICT AT (717) 921-8100.
 - 19. PERMANENT SEEDING AND MULCHING WILL BE INCORPORATED INTO THE CONSTRUCTION PHASES DURING THE APPROVED PLANTING SEASON.
- .OWS, DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER, AND ON ALL OTHER DISTURBED 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 EROSION RESISTANT STAND OF VEGETATION. TEMPORARY SEEDING SPECIFICATIONS ARE CONTAINED IN THIS REPORT. PERMANENT CONTROL MEASURES

- ALL EXISTING STORMWATER DEVICES ARE TO BE INSPECTED DAILY AND CLEANED OUT AS NECESSARY.
- RACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. CUT AND FILL SLOPES 4. TEMPORARY AND PERMANENT SEEDING SHALL ADHERE TO THE SPECIFICATIONS PROVIDED IN THIS REPORT.
 - 5. EACH STAGE OF EARTHMOVING ACTIVITIES MUST BE COMPLETED PRIOR TO INITIATING SUBSEQUENT STAGES.
- EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER 6. ALL EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED WEEKLY AND AFTER ALL MEASURABLE PRECIPITATION EVENTS.
 - 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 HEALTH OR THE ENVIRONMENT.
 - 8. APPROVED SOIL EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE REPORTS MUST BE AVAILABLE AT THE SITE OF THE CONSTRUCTION ACTIVITY AT ALL TIMES.
 - 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.



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	COMP	OST SOCK FAE	BRIC MINIMUM SF	PECIFICATIONS				
MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)			
MATERIAL CHARACTERISTICS	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE	PHOTO- DEGRADABLE			
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"			
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"			
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI			
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.			
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS 1 YEAR		2 YEARS			
TWO-PLY SYSTEMS								
HDPE BIAXIAL NET								
			CONTINUOUSLY WOUND					
			FUSION-WELDED JUNCTURES					
				3/4" X 3/4" MAX. APERTURE SIZE				
OUTER	FILTRATION MESH	4	COMPOSITE POLYPROPYLENE FABRIC (WOVEN LAYER AND NON-WOVEN FLEECE MECHANICALLY FUSED VIA NEEDLE PUNCH)					
				3/16" MAX. APERTURE S	IZE			
SOCK	FABRICS COMPOS	ED OF BURLAP MA	Y BE USED ON PROJ	ECTS LASTING 6 MONTHS	OR LESS.			

	JANDARDO
ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
РН	5.5 - 8.5
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	30% -50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 DS/M (MMHOS/CM) MAXIMUM

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PROJECT NO.

DATE: 6/3/2021

SCALE: N.T.S.

SHEET 55 of 68

19-0249-002

ES 15.3

/	SOCK. 4' MIN. OVERL ON UPSLOPE SIDED
	FILTER RING

- DIRECT CONCRETE WASHOUT WATER INTO FILTER RING

- 24"Ø COMPOST FILTER SOCK

- MAXIMUM DEPTH OF CONCRETE WASHOUT WATER IS 50% OF FILTER

		7 05/13/24	REVISED PER DEP CHAPTER 102 AND CHAPTER 105 COMMENTS	CMC	P D C
	EROSION & SEDIMENTATION CONTROL DETAILS	6 11/07/23	REVISED PER CHAPTER 102 COMMENTS	HEC So	ROJ. ESIG ADD
ecary & Associates, LLC	FOR	5 09/22/23	REVISED PER CHAPTER 102 & 105 COMMENTS	KED OMO	MGI N -
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snydersecary.com 717.781.2929	WEST HANOVER TOWNSHIP, DAUPHIN COUNTY, PENNSYLVANIA	NO. DATE	REVISION	BY	

NOTES:

- ALL PERMANENT ORIFICES ON THE PERMANENT OUTLET STRUCTURE SHALL BE COVERED WITH A BOLTED WATER TIGHT TEMPORARY STEEL PLATE IN THE TEMPORARY CONDITION. THE FLEXIBLE HOSE SHOULD BE CONNECTED TO THE TEMPORARY COUPLING AND THE COUPLING SHOULD BE WELDED TO THE TEMPORARY STEEL PLATE CENTERED ON THE TEMPORARY 6" DIAMETER ORIFICE OPENING. A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE INSTALLED.
- SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.
- ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE LEVEL MARKED ON THE SEDIMENT CLEAN OUT STAKE OR THE
- TOP OF THE STONE BERM. SEE SKIMMER & STONE LANDING BERM DETAIL FOR CONFIGURATION OF STONE BERM. SKIMMER ATTACHMENT TO **PERMANENT OUTLET STRUCTURE** NOT TO SCALE

FLUCTUATING WATER ELEVATIONS.

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LINING
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ELEVATION = ELEV. B

OUTLET PIPE 24" RCP 24" SLPEP

18" RCP

