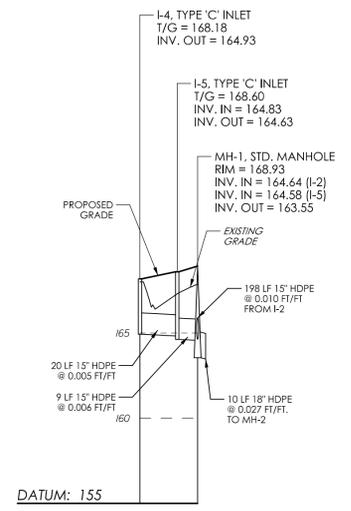


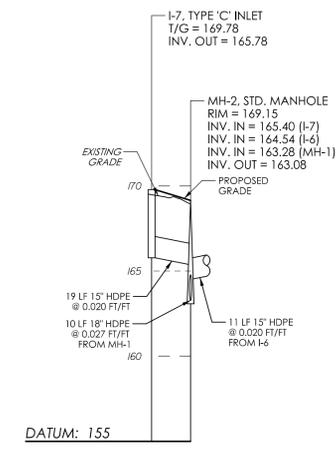
STORM PROFILE - TRENCH 1 TO UG-1

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



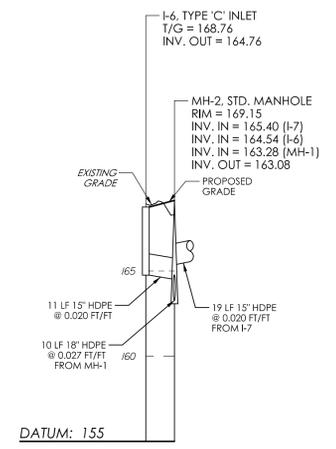
STORM PROFILE - I-4 TO MH-1

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



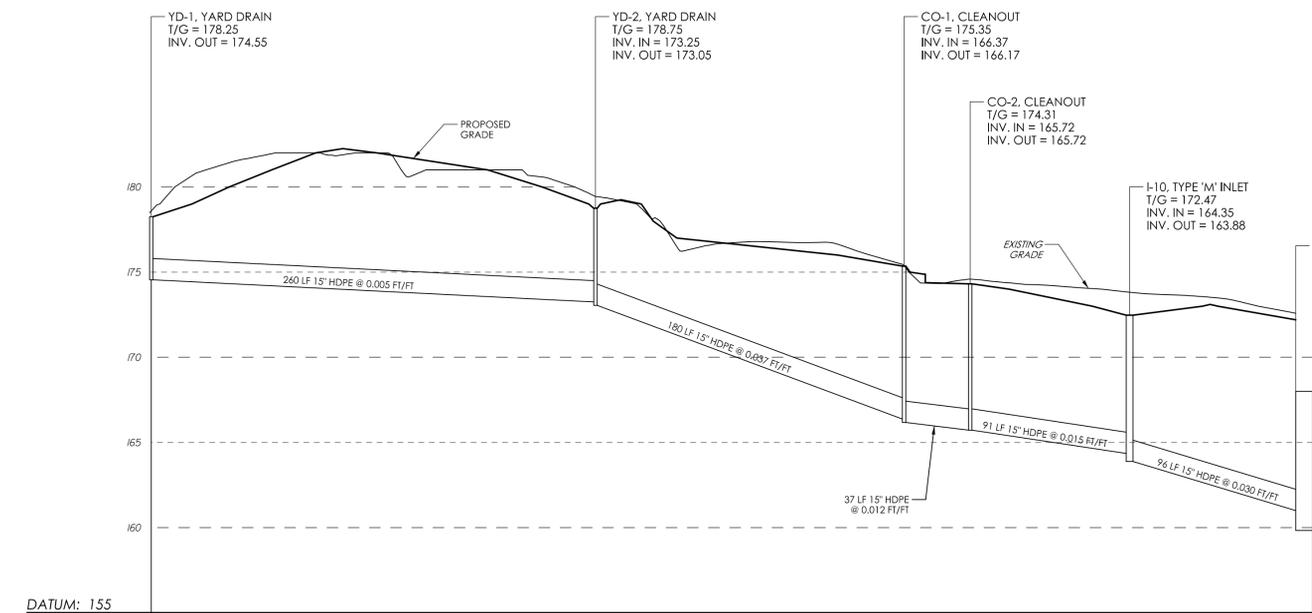
STORM PROFILE - I-7 TO MH-2

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



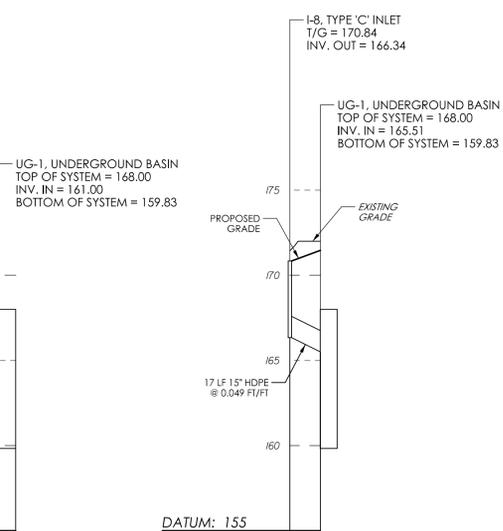
STORM PROFILE - I-6 TO MH-2

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



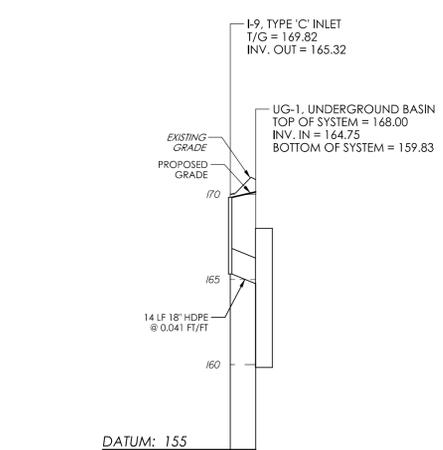
STORM PROFILE - YD-1 TO UG-1

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



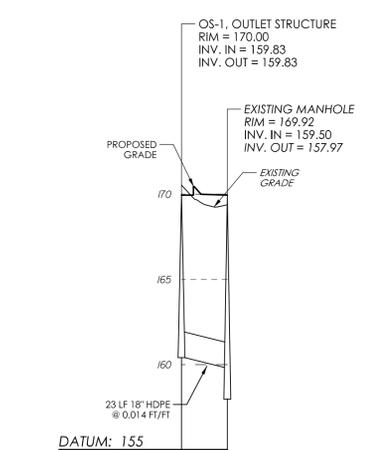
STORM PROFILE - I-8 TO UG-1

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



STORM PROFILE - I-9 TO UG-1

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'



STORM PROFILE - OS-1 TO MH-3

SCALE: HORIZONTAL 1" = 50'
VERTICAL 1" = 5'

PROJECT SERIAL NO.
CALL BEFORE YOU DIG!
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3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE - STOP CALL
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BRWING NAME: **UTILITY PROFILE SHEET**
3700 HORIZON DRIVE
LOCATION: **UPPER MERION TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA**

PROJECT NO.	2019-051	DRAWN BY:	NAM
DATE:	6/17/20	CHECKED BY:	JFL
SCALE:	N.T.S.	APPROVED BY:	TJB
SHEET NO.			

C5.1

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GENERAL PLANTING

SUBMITTALS: TOPSOIL - A SOIL ANALYSIS REPORT SHALL BE SUBMITTED AND SHOW THE PERCENTAGE OF EACH CONSTITUENT, PH, AND OTHER PERTINENT SOIL CHARACTERISTICS. RECOMMENDATIONS SHOULD INCLUDE QUANTITIES OF EACH SOIL AMENDMENT AND FERTILIZER REQUIRED TO ACHIEVE OPTIMUM SOIL CONDITIONS.

PLANTING SCHEDULE - ALL PLANT MATERIAL SHALL BE PLANTED NO EARLIER THAN APRIL 15 AND MAY CONTINUE THROUGH JUNE 15 OR BEGIN SEPTEMBER 1, BUT CONTINUE NO LATER THAN OCTOBER 15. DO NOT INSTALL PLANT MATERIALS WHEN TEMPERATURES ARE BELOW 35 DEGREES FAHRENHEIT OR ABOVE 95 DEGREES FAHRENHEIT.

MAINTENANCE - WRITTEN INSTRUCTIONS FOR THE OWNER'S MAINTENANCE OF LANDSCAPING, INCLUDING INITIAL MAINTENANCE RECOMMENDATIONS, 12 MONTHS, AND LONG TERM RECOMMENDATIONS MUST BE SUBMITTED PRIOR TO ACCEPTANCE OF LANDSCAPING.

QUALITY ASSURANCE:

GENERAL - ALL MATERIAL MUST COMPLY WITH AMERICAN ASSOCIATION OF NURSERY NEW STANDARDS APPLICABLE TO LANDSCAPING. MATERIAL MUST BE PROVIDED AS INDICATED WITH NO SUBSTITUTIONS PERMITTED. PLANT MATERIAL PROVIDED MUST COMPLY WITH ANSI Z60.1.

INSPECTION - THE ENGINEER/LANDSCAPE ARCHITECT RETAINS THE RIGHT TO INSPECT PLANTING MATERIALS AT ANY TIME FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. REGARDING, BUT NOT LIMITED, TO LATENT DEFECTS, AND LACK OF PROTECTION OF MAINTENANCE, AND MAY REJECT DEFECTIVE MATERIAL. REJECTED MATERIAL MUST BE IMMEDIATELY REMOVED AND DISPOSED OFF THE SITE. CONTRACTOR SHALL SCHEDULE PLANT INSPECTION WITH ENGINEER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF ALL PLANT MATERIALS.

DELIVERY, STORAGE, AND HANDLING:

PACKAGED MATERIALS - MATERIAL MUST BE DELIVERED IN ORIGINAL UNOPENED CONTAINERS DISPLAYING WEIGHT, GUARANTEED CHEMICAL ANALYSIS, AND MANUFACTURER'S NAME OR FURNISH IN BULK WITH APPROPRIATE CERTIFICATES AND PROTECTED FROM DETERIORATION.

SOD - DELIVERY OF SOD SHALL BE TIED TO SOD THAT IT WILL BE INSTALLED WITHIN 24 HOURS AFTER DELIVERY. SOD SHALL BE PROTECTED AGAINST DRYING AND BREAKAGE.

GROUND COVER AND PLANTS - DELIVERY SHALL BE SCHEDULED TO AVOID ON SITE STORAGE. IF PLANTING DOES NOT OCCUR ON SAME DAY AS DELIVERY, STORE IN LOCATION PROTECTED FROM SUN AND WEATHER. ALL TREES AND SHRUBS SHALL NOT BE PRUNED BEFORE DELIVERY IN ORDER TO PREVENT SHOCK. STOCK MUST BE COVERED FOR PROTECTION DURING TRANSPORTATION. STOCK SHALL BE COVERED TO PROTECT BRANCHES, BARK, AND OVERALL SHAPE DURING TRANSPORT. ANY BALLED AND BURLAPPED STOCK MUST BE FRESHLY DUG UNLESS OTHERWISE APPROVED. STOCK MUST NOT BE DROPPED. STOCK MUST BE DELIVERED ONLY AFTER SOIL HAS BEEN PREPARED. HARVEST SCHEDULING WITH DELIVERY IN QUANTITIES SUITABLY TIMED FOR IMMEDIATE PLANTING UPON ARRIVAL. IF PLANTING CANNOT BE ACCOMPLISHED IMMEDIATELY, PROVIDE SHADE PROTECTION FROM WIND, PROTECT BALLS OR ROOTS FROM DRYING BY COVERING AT ALL TIMES WITH MOIST SAW DUST, WOOD CHIPS, SHREDDED BARK OR OTHER SIMILAR MULCHING MATERIAL. ALL PLANT MATERIAL SHALL BE SUITABLY WATERED DURING ON SITE STORAGE.

PROJECT CONDITIONS:

WORK COORDINATION - ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH WORK OCCURRING IN OTHER SECTIONS AND LOCAL SEASONS. ALL UNDERGROUND UTILITIES MUST BE LOCATED SO TO AVOID DAMAGE AND INJURY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS TO ANY UTILITIES DAMAGED ASSOCIATED WITH EXCAVATION AND PLANTING.

SEQUENCING - FINAL GRADES MUST BE ESTABLISHED BEFORE PLANTING TREES AND SHRUBS. LAWSNS MAY THEN BE PLANTED UNLESS OTHERWISE APPROVED. EARLIER PLANTINGS MUST BE PROTECTED FROM LATER PLANTING OPERATIONS AND REPAIRS MADE TO ANY RESULTING DAMAGE OR INCONSISTENCIES.

WARRANTIES:

GENERAL - WARRANTIES SHALL BE IN ADDITION TO, AND NOT A LIMITATION OF, OTHER RIGHTS THE OWNER MAY HAVE AGAINST THE CONTRACTOR UNDER THE CONTRACT DOCUMENTS.

LAWNS - WARRANT LAWNS UNTIL TURF EXHIBITS VIGOROUS GROWTH FOR TWELVE (12) MONTHS.

TREES AND SHRUBS - WARRANT TREES AND SHRUBS FOR EIGHTEEN (18) MONTHS AFTER FINAL APPROVAL BY TOWNSHIP LANDSCAPE ARCHITECT. WARRANTY SHALL COVER DEATH, AND UNSATISFACTORY GROWTH, NEGLIGENCE, AND/OR ACTS OF GOD. IF COMPLETION OF LANDSCAPING WORK IS MATERIALLY DELAYED BEYOND THE DATE OF SUBSTANTIAL COMPLETION, PROVIDE WARRANTY COMMENCING ON DATE OF ACCEPTANCE BY THE PROJECT ENGINEER/LANDSCAPE ARCHITECT.

UNSATISFACTORY MATERIAL - REPLACE UNSATISFACTORY MATERIAL WITH MATCHING, HEALTHY, VIGOROUS PLANTS. PLANT ONLY DURING NEXT OCCURRING PLANTING SEASON. AT THE DIRECTION OF THE PROJECT ENGINEER/LANDSCAPE ARCHITECT, EITHER REPLACE MATERIALS EXHIBITING POOR QUALITY, MARGINAL CONDITION OR EXTEND THE WARRANTY COVERING SUCH MATERIALS FOR ONE FULL GROWING SEASON. ANY PLANT MATERIAL OF WHICH 25% OR MORE IS DEAD SHALL BE CONSIDERED DEAD. A TREE SHALL BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED OR IF 25% OF THE CROWN IS DEAD. ANOTHER INSPECTION WILL BE CONDUCTED AT THE END OF THE EXTENDED WARRANTY PERIOD(S). IF ANY, TO DETERMINE ACCEPTANCE OR REJECTION. ONLY ONE REPLACEMENT WILL BE REQUIRED AT THE END OF THE WARRANTY PERIOD, EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH SPECIFIED REQUIREMENTS.

MAINTENANCE:

LAWNS - MAINTAIN LAWNS FROM IMMEDIATELY AFTER PLANTING UNTIL AN ACCEPTABLE LAWN IS ESTABLISHED. AT THE END OF THE MAINTENANCE PERIOD, SODDED LAWNS SHALL BE UNIFORM IN TEXTURE, DENSITY AND COLOR; SUBSTANTIALLY WEED-FREE, WITHOUT SPOTS WITH VIGOROUS GROWTH OF PROPER SPECIES AND VARIETY. WATER REGULARLY AND AT SUCH TIMES AND RATES AS NECESSARY FOR OPTIMUM GROWTH AND TO AVOID WILTING, FLOODING, RUNOFF, OR EROSION. MOW GRASS AT REGULAR INTERVALS TO MAINTAIN A MAXIMUM HEIGHT OF 1-1/2 INCHES. DO NOT CUT MORE THAN 1/3 OF GRASS BLADE AT ANY ONE MOWING. TRIM EDGES AND CLIP BY HAND WHERE NECESSARY. IMMEDIATELY REMOVE CLIPPINGS AFTER MOWING AND TRIMMING. FERTILIZE AFTER ONE MONTH OF GROWTH AND APPLY 1/2 POUND OF AVAILABLE NITROGEN PER 1000 SQUARE FEET. CONTROL THE GROWTH OF WEEDS BY APPLYING HERBICIDES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMEDY ANY DAMAGE RESULTING FROM USE OF HERBICIDES. REGRADE AND REPLANT AREAS TO CORRECT RUTTED, DAMAGED, OR IMPROPERLY GRADED AREAS.

TREES AND SHRUBS - MAINTAIN TREES AND SHRUBS FROM IMMEDIATELY AFTER PLANTING THROUGH THE WARRANTY PERIOD. PROVIDE ALL MAINTENANCE NECESSARY TO ACHIEVE HEALTHY PLANT GROWTH SUCH AS WATERING REGULARLY AND ON A TIMELY BASIS, AND REMOVE WEEDS, REPLACE MULCH, AND RESTORE ERODED WATERING BASIS AROUND TRUNKS IF NEEDED. ADJUST STAKES AND GUYS TO PROVIDE PROPER SUPPORT AND REPLANT TREES AND SHRUBS TO VERTICAL POSITION IF NECESSARY. RENEW WRAPPINGS IF DAMAGED. APPLY INSECTICIDES OR FUNGICIDES IF NECESSARY TO PREVENT OR CORRECT INSECT INFESTATION AND DISEASE.

GROUND COVER AND SMALL PLANTS - MAINTAIN GROUND COVER AND SMALL PLANTS FROM IMMEDIATELY AFTER PLANTING THROUGH THE WARRANTY PERIOD. PROVIDE THE FOLLOWING MAINTENANCE NECESSARY TO ACHIEVE HEALTHY PLANT GROWTH: WATER REGULARLY AND ON A TIMELY BASIS. REMOVE WEEDS AND REPLACE MULCH IF NEEDED. AND SPRAY AS REQUIRED TO KEEP GROUND COVER AND SMALL PLANTS FREE OF INSECTS AND DISEASE.

PRODUCTS:

TOPSOIL:

TOPSOIL AT SITE - VERIFY SUITABILITY AND QUANTITY OF TOPSOIL STOCKPILED AT SITE. IF SUFFICIENT QUANTITIES OF SUITABLE TOPSOIL ARE NOT AVAILABLE AT SITE, PROVIDE TOPSOIL FROM APPROVED OFF SITE SOURCES. FERTILE AGRICULTURAL SOIL, TYPICAL FOR LOCALITY, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH AND TAKEN FROM A DRAINED SITE. FREE OF SUBSOIL, ROCKS LARGER THAN 2 INCHES IN DIAMETER, CLAY, TOXIC MATTER, PLANTS, WEEDS, AND ROOTS.

SOIL AMENDMENTS:

LIME - PULVERIZED DOLOMITIC LIMESTONE CONTAINING NOT LESS THAN 85 PERCENT TOTAL CARBONATES WITH A MINIMUM OF 30 PERCENT MAGNESIUM CARBONATES; MINIMUM 90 PERCENT PASSING A 10-MESH SIEVE AND MINIMUM 50 PERCENT PASSING A 100-MESH SIEVE.

HUMUS - SHALL BE DECOMPOSED ORGANIC MATTER; PH SUITABLE FOR INTENDED USE.

SAND - SHALL BE CLEAN WASHED SAND FREE OF TOXIC MATERIALS.

PERLITE - HORTICULTURAL PERLITE OF SOIL AMENDMENT GRADE.

COMMERCIAL FERTILIZER - GRANULAR, COMMERCIAL GRADE, PH NEUTRAL, COMPRISED OF BOTH SLOW AND FAST RELEASE ELEMENTS AND CONTAINING THE FOLLOWING MINIMUM CONTENT OF AVAILABLE PLANT NUTRIENTS:

- TREES AND SHRUBS - 5% TOTAL NITROGEN, 10% PHOSPHORIC ACID, 5% SOLUBLE POTASH.

- GROUND COVER AND PLANTS - 3% TOTAL NITROGEN, 10% PHOSPHORIC ACID, 5% SOLUBLE POTASH.

- LAWNS - AVAILABLE NITROGEN CONTENT AS REQUIRED TO PROVIDE 1 POUND PER 1000 SQUARE FEET AT NORMAL APPLICATION RATE, MINIMUM 4% PHOSPHORIC ACID, AND MINIMUM 2% SOLUBLE POTASH.

SEEDING

APPLY SEED AT A RATE OF 4 LBS. PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. RAKE IN SLIGHTLY. DO NOT SEED AREAS IN EXCESS OF THAT WHICH CAN BE MULCHED ON SAME DAY. DO NOT SOW IMMEDIATELY FOLLOWING SEEDING. APPLY EVEN LAYER OF HAY MULCH. IMMEDIATELY FOLLOWING SEEDING AND COMPACTING, APPLY EVEN LAYER OF HAY MULCH. MAINTAIN CLEAR OF SHRUBS AND TREES. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER AREA HAS BEEN MULCHED. SATURATE TO 4 INCHES OF SOIL.

SEED SPECIFICATIONS

TURF MIXTURE:

15% KENTUCKY BLUEGRASS

35% KENTUCKY 31 FESCUE

25% CHEWINGS FESCUE

15% PERENNIAL RYE GRASS

10% RECLEANED REDTOP

HYDROSEEDING

APPLY SEEDING SLURRY WITH A HYDRAULIC SEEDER AT A RATE OF 4 LBS OF SEED PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. DO NOT HYDROSEED AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON SAME DAY. IMMEDIATELY FOLLOWING SEEDING, APPLY EVEN LAYER OF HAY MULCH. MAINTAIN CLEAR OF SHRUBS AND TREES. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER AREA HAS BEEN MULCHED. SATURATE TO 4 INCHES OF SOIL.

HYDROSEEDING

APPLY SEEDING SLURRY WITH A HYDRAULIC SEEDER AT A RATE OF 4 LBS OF SEED PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. DO NOT HYDROSEED AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON SAME DAY. IMMEDIATELY FOLLOWING SEEDING, APPLY EVEN LAYER OF HAY MULCH. MAINTAIN CLEAR OF SHRUBS AND TREES. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER AREA HAS BEEN MULCHED. SATURATE TO 4 INCHES OF SOIL.

HYDROSEEDING

APPLY SEEDING SLURRY WITH A HYDRAULIC SEEDER AT A RATE OF 4 LBS OF SEED PER 1000 SQUARE FEET EVENLY IN TWO INTERSECTING DIRECTIONS. DO NOT HYDROSEED AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON SAME DAY. IMMEDIATELY FOLLOWING SEEDING, APPLY EVEN LAYER OF HAY MULCH. MAINTAIN CLEAR OF SHRUBS AND TREES. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER AREA HAS BEEN MULCHED. SATURATE TO 4 INCHES OF SOIL.

SEED PROTECTION

COVER SEEDED SLOPES WHERE GRADE EXCEEDS 1' IN 5' OR GREATER WITH EROSION FABRIC. ROLL FABRIC ONTO SLOPES WITHOUT STRETCHING OR PULLING. LAY FABRIC SMOOTHLY ON SURFACE. BURY TOP END OF EACH SECTION IN 6 INCH DEEP EXCAVATED TOPSOIL TRENCH. PROVIDE 12 INCH OVERLAP OF ADJACENT ROLLS. BACKFILL TRENCH AND RAKE SMOOTH LEVEL WITH ADJACENT SOIL. SECURE OUTSIDE EDGES AND OVERLAPS AT 36 INCH INTERVALS WITH STAKES. LIGHTLY DRESS SLOPES WITH TOPSOIL TO ENSURE CLOSE CONTACT BETWEEN FABRIC AND SOIL. AT SIDES OF DITCHES, LAY FABRIC LAPS IN DIRECTION OF WATER FLOW. LAP ENDS AND EDGES MINIMUM 6 INCHES.

SPECIFICATIONS

TREES AND SHRUBS:

GENERAL - PROVIDE NURSERY OR PLANTATION GROWN STOCK CONFORMING TO THE AMERICAN STANDARD FOR NURSERY STOCK. ALL VEGETATION SHALL BE NURSERY GROWN, WELL-BRANCHED AND UNIFORMLY SOUND, VIGOROUS, HEALTHY, AND FREE FROM DISEASE, SUNSCALD, WINDBURN, ABRASION, AND HARMFUL INSECTS OR INSECT EGGS. DECIDUOUS TREES AND SHRUBS SHALL BE SYMMETRICALLY DEVELOPED AND UNIFORM HABIT OF GROWTH, WITH STRAIGHT TRUNKS OR STEMS, AND FREE FROM OBJECTIONABLE DISFIGUREMENTS. CONIFEROUS EVERGREEN TREES AND SHRUBS SHALL HAVE WELL-DEVELOPED SYMMETRICAL CANOPIES WITH UNIFORM SPREAD OF BRANCHES FOR EACH PARTICULAR SPECIES OR VARIETY. PROVIDE STOCK COMPLYING IN ALL RESPECT WITH ANSI Z60.1 AND IN SIZES INDICATED, MEASURED IN ACCORDANCE WITH ANSI Z60.1. LARGER SIZES WITH LARGER ROOTS AND ROOT CONTAINMENT MAY BE FURNISHED, IF APPROVED. BY THE LANDSCAPE ARCHITECT, DO NOT SPREAD OR COMPRESS BRANCHES WHEN MEASURING. MEASURE MAIN BODY OF BRANCHES DO NOT MEASURE EXTREME TIP TO TIPS OF SINGLE BRANCHES. PRUNING TO SIZE IS NOT ACCEPTABLE. SHADE AND FLOWERING TREES, DECIDUOUS, SHRUBS, AND CONIFEROUS EVERGREENS SHALL BE BALLED AND BURLAPPED (B&B).

PLANTS:

GENERAL - PROVIDE FIELD-GROWN OR ACCLIMATED CONTAINER-GROWN PLANTS FROM A COMMERCIAL NURSERY, HEALTHY, VIGOROUS, OF SIZE INDICATED AND IN ACCORDANCE WITH ANSI Z60.1, SECTION 6, "YOUNG PLANTS".

GRASS MATERIALS:

SOD - PROVIDE VIABLE (NOT DORMANT) CERTIFIED TURF GRASS COMPLYING WITH ASPA SPECIFICATIONS FOR THICKNESS, SIZE, STRENGTH, MOISTURE CONTENT, MOWED HEIGHT, TIME BETWEEN HARVEST AND TRANSPORTING, THATCH, DISEASE, NEMATODES, INSECTS, AND WEEDS. SOD TYPE SHALL BE KENTUCKY BLUEGRASS (POA PRATENSIS).

MISCELLANEOUS LANDSCAPE MATERIAL:

DECORATIVE MULCH - SHALL BE FREE OF HARMFUL MATERIALS, SUITABLE FOR TOP DRESSING OF PLANTINGS, AND CONSISTING OF DOUBLE SHREDDED HARDWOOD.

ANTIDESICCANT - IS A FILM - FORMING EMULSION, PERMEABLE TO TRANSPIRATION YET RETARDING TO EXCESSIVE MOISTURE LOSS.

STAKING AND GUYING MATERIALS - STAKES SHALL BE PRESSURE - PRESERVATIVE TREATED LUMBER OF SIZES INDICATED; SOUND, STRAIGHT, AND FREE OF SPLITS AND KNOTS LARGER THAN 1/2 OF THE LEAST NOMINAL DIMENSION OF THE PIECE. SHARPEN END AND CHAMFER SIDES OF DRIVEN END TO PREVENT SPLITTING FROM OFF-CENTRE HAMMER STROKES. THE WIRE WILL BE A GALVANIZED MILD STEEL WIRE, MINIMUM 12 GAUGE; PROVIDE DOUBLE STRANDS. HOISING WILL BE RUBBER OR PLASTIC GARDEN HOSE, AND THE TURNBUCKLES SHALL BE ALUMINUM, GALVANIZED STEEL, OR SIMILAR.

PLANTING SOIL:

SOIL MIX - PROVIDE PLANTING SOIL MIX, CONSISTING OF TOPSOIL AND AMENDMENTS AS RECOMMENDED BY SOIL ANALYSIS LABORATORY REPORT.

MIXING - MIX TOPSOIL AND AMENDMENTS THOROUGHLY TO PROVIDE UNIFORM MIXTURE USING A DRIVING TYPE MECHANICAL MIXER, POWERED ROTARY TILLER, OR OTHER MEANS ACCEPTABLE TO THE LANDSCAPE ARCHITECT.

EXECUTION:

PREPARATION: LAYOUT - LAY OUT PLANTING LOCATIONS, MARK WITH STAKES. ADJUST LOCATIONS IF REQUESTED, AND OBTAIN THE LANDSCAPE ARCHITECT'S APPROVAL OF LOCATIONS BEFORE PROCEEDING WITH INSTALLATION.

PREPARATION OF PLANTING SOIL - PRIOR TO MIXING IN DRUM - TYPE MIXER OR DURING TILLAGE OPERATIONS, CLEAN TOPSOIL OF STICKS, STONES, CLAY LUMPS, VEGETABLE MATTER, AND OTHER OBJECTIONABLE OBJECTS. PIT AND TRENCH BACKFILL MIX PLANTING SOIL AND STOCKPILE AT SITE, READY FOR USE AS BACKFILL. FOR PLANTING BEDS AND LAWNS, EITHER MIX PLANTING SOIL BEFORE PLACING OR UNIFORMLY SPREAD FERTILIZER IN AND SOIL AMENDMENTS ON SURFACE OF IN - PLACE TOPSOIL AND TILL THOROUGHLY BEFORE PLANTING.

PREPARATION FOR PLANTING LAWNS - PREPARE ONLY THOSE AREAS THAT WILL BE PLANTED PRESENTLY. ALLOW FOR SOD THICKNESS IN AREA TO BE SODDED. FOR PREPARATION OF STRIPPED AREAS, TILL SUBGRADE TO A DEPTH OF AT LEAST 4 INCHES. PLACE TOPSOIL IN TWO APPROXIMATELY EQUAL LIFTS, WORKING FIRST LIFT INTO SUBGRADE BEFORE PLACING SECOND LIFT. SPREAD SECOND LIFT TO COMPLY WITH FINISHED LINES. GRASS SEEDINGS REQUIRED AFTER ALLOWING FOR SETTLEMENT. TO PREPARE FOR UNCHANGED GRADES, PREPARE YET UNSTRIPPED AREAS AS FOLLOWS: REMOVE EXISTING VEGETATION INCLUDING GRASSES AND DISPOSE OF OFF SITE. TILL SOIL TO A DEPTH OF AT LEAST 4 INCHES. CLEAN TOPSOIL OF STICKS, STONES, CLAY LUMPS, VEGETABLE MATTER, AND OTHER OBJECTIONABLE OBJECTS. FINE-GRADE, REMOVE CLIPPINGS AFTER MOWING AND TRIMMING. FERTILIZE AFTER ONE MONTH OF GROWTH AND LEAVING A SMOOTH EVEN SURFACE OF FINE-TEXTURED SOIL COMPLYING WITH REQUIRED GRADES. IF DRY, WATER TO A DEPTH OF TOPSOIL THOROUGHLY BUT NOT EXCESSIVELY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING. JUST BEFORE PLANTING, CORRECT ANY LAWN AREAS THAT HAVE BEEN ERODED, RUTTED, OR SETTLED.

PREPARATION OF PLANTING BEDS - TILL PLANTING BED AREA TO A DEPTH OF AT LEAST 4 INCHES. CLEAR, AND ADD SOIL AMENDMENTS NECESSARY TO ACHIEVE OPTIMUM GROWING CONDITIONS AND TILL THOROUGHLY.

EXCAVATION FOR TREES AND SHRUBS - PITS, BEDS, AND TRENCHES: EXCAVATE WITH SIDES VERTICAL, BOTTOM FLAT BUT WITH HIGH CENTER FOR DRAINAGE. DEGLAZE SIDES AND LOOSEN BOTTOM. MINIMUM DIMENSIONS FOR INDIVIDUAL PITS:

- DIAMETER: - BALL OR ROOT SPREADS UP TO 2 FEET: 1-1/2 TIMES ROOT SPREAD. - BALL OR ROOT SPREADS 2 TO 4 FEET: 1-1/2 TIMES ROOT SPREAD. - BALL OR ROOT SPREADS OVER 4 FEET: 2 TIMES ROOT SPREAD. ALL EXCAVATED SUBSOIL FROM THE SITE SHALL BE MIXED WITH APPROPRIATE VOLUMES OF SOIL AMENDMENTS AS RECOMMENDED BY SOIL ANALYSIS LABORATORY REPORT AS INDICATED ON PLANS PRIOR USE AS PLANTING BACKFILL.

PLANTING TREES AND SHRUBS: BALLED AND BURLAPPED STOCK - SET PLANTS IN EXCAVATION WITH TOP OF BALL TO MATCH ADJACENT FINISHED GRADE. ADD SOIL AS REQUIRED UNDER BALL TO ACHIEVE PLUMB. REMOVE BURLAP FROM TOP AND TOP 1/3 OF BALL; RETAIN BURLAP ON BOTTOM OF BALL. PLACE BACKFILL IN 3 TO 4 INCH THICK LAYERS. WORK EACH LAYER BY HAND TO COMPACT BACKFILL AND ELIMINATE VOID. MAINTAIN PLUMB DURING BACKFILLING. WATER BACKFILLING IS APPROXIMATELY 2/3 COMPLETE. SATURATE BACKFILL WITH WATER AND REPEAT UNTIL SUITABLY FILLED AND COMPACTED. REMAINDER OF BACKFILL AND WATER AGAIN. PROVIDE EARTH WATERING BASIN SAUCER, AS INDICATED ON THE PLANS, AND WATER STOCK.

CONTAINER - GROWN PLANT - IMMEDIATELY BEFORE PLACING, REMOVE CONTAINER, OR CAN SET AND PLUMB PLANTS. PLACE INITIAL BACKFILL AND REMOVE SIDES OF CONTAINER, TAKING CARE TO AVOID DAMAGE TO ROOT SYSTEM.

BASIN - FORM EARTHEN WATERING BASIN AROUND EXCAVATION AREA WITH BACKFILL HOLDING AT LEAST 2-1/2 GALLONS FOR SHRUBS AND 5 GALLONS FOR TREES. APPLY MULCH.

ANTIDESICCANT - SPRAY - APPLY. COVERING ALL PORTIONS OF PLANT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. IF IN FULL LEAF, SPRAY DECIDUOUS TREES OR SHRUBS AT NURSERY JUST BEFORE TRANSPORTATION, AND 2 WEEKS AFTER TRANSPORTING.

PRUNING - REMOVE DEAD OR BROKEN BRANCHES. PRUNE TO RETAIN TYPICAL GROWTH HABIT OF PLANTS WITH AS MUCH HEIGHT AND SPREAD AS PRACTICAL. MAKE CUTS WITH SHARP INSTRUMENTS AND FLUSH WITH TRUNK OR ADJACENT BRANCH. DO NOT REMOVE LEADERS FROM TREES.

STAKING AND GUYING OF TREES: PROTECTION OF TREE TRUNKS - INSPECT AND, IF NECESSARY, REPLACE TREES SHOWING SIGNS OF PHYSICAL DAMAGE OR INSECT INFESTATION. GUY AND STAKE TREES THE SAME DAY AS PLANTING. REFER TO DRAWINGS AND SCHEDULE FOR GUYING AND STAKING REQUIREMENTS.

SODDING NEW LAWNS: LAYING - DO NOT LAY DRIED OR BROKEN SOD; USE ONLY FRESH, PROPERLY PROTECT SOD. LAY FIRST AND SUBSEQUENT PARALLEL ROWS IN A STRAIGHT LINE WITH TIGHTLY BUTTED JOINTS. DO NOT OVERLAY SOD OR LEAVE GAPS. STAGGER LATERAL JOINTS. WHEN EACH SECTION IS LAID, LIGHTLY ROLL THE ENTIRE AREA TO ENSURE CONTACT BETWEEN SOD AND SUBGRADE. WATER SOD IMMEDIATELY AFTER PLANTING TO THOROUGHLY WET THE PAD AND SUBGRADE IMMEDIATELY THEREAFTER. DURING FIRST WEEK, MAINTAIN SOIL CONTINUALLY MOIST TO DEPTH OF 4 INCHES BY WATERING DAILY OR MORE OFTEN, ABSENT ADEQUATE RAINFALL.

MISCELLANEOUS MATERIALS: DECORATIVE MULCH - APPLY A UNIFORM THREE INCH (3") THICK LAYER OF DOUBLE SHREDDED HARDWOOD MULCH IN THE FOLLOWING AREAS: INDIVIDUAL PLANTING PITS AND PLANTING BEDS. DURING THE MAINTENANCE AND WARRANTY PERIOD, THE CONTRACTOR IS REQUIRED TO APPLY NEW MULCH AS NECESSARY DUE TO EROSION, SETTLING OR AS REQUIRED BY THE LANDSCAPE ARCHITECT.

GENERAL NOTE:

IT IS AGREED THAT THE PROFESSIONAL SERVICES OF THE DESIGN PROFESSIONAL DO NOT EXTEND TO OR INCLUDE THE REVIEW OR SITE OBSERVATION OF THE CONTRACTOR'S WORK OR REINFORCING, UNLESS OTHERWISE SPECIFIED AND AGREED. IT IS FURTHER AGREED THAT THE OWNER WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL FROM ANY CLAIM OR SUIT WHATSOEVER ARISING FROM THE CONTRACTOR'S PERFORMANCE OR THE FAILURE OF THE CONTRACTOR'S WORK TO CONFORM TO THE DESIGN INTENT AND THE CONTRACT DOCUMENTS.

PROTECT EXISTING NATIVE TREES AND PROPOSED LANDSCAPE

INSPECT CONDITION OF TREES ANNUALLY AND AFTER MAJOR STORM EVENTS PRUNE TREES FOR SAFETY PURPOSES ONLY UNLESS NEAR A BUILDING FOR THE LIFE OF THE PROJECT (50 YEARS) OR UNTIL REDEVELOPMENT OCCURS. REPLACE ANY PROTECTED TREE THAT DIES WITHIN 5 YEARS OF CONSTRUCTION. DEAD TREES MUST BE REPLACED WITHIN 6 MONTHS.

NOTE:

TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.

PRUNE TO THIN AND SHAPE TREE CANOPY. DO NOT PRUNE CENTRAL LEADER.

SET STAKES VERTICAL AND AT SAME HEIGHT.

STAKES OR GUYS TO BE SET 2/3 UP TREE OR ABOVE FIRST BRANCHES

STAKES AND GUYS TO BE REMOVED AT END OF GUARANTEE PERIOD.

3" OF MULCH, NOT TO COME IN CONTACT WITH TREE BARK

MOUND TO FORM SAUCER

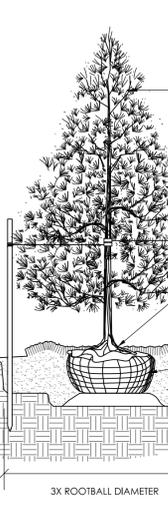
REMOVE BURLAP FROM TOP 1/3 OF BALL. NON-BIO-DEGRADABLE MATERIALS SHALL BE ENTIRELY REMOVED.

PLANT MIXTURE AS SPECIFIED

STAKES TO EXTEND 18" BELOW TREE PIT IN UNDISTURBED GROUND

DECIDUOUS TREE PLANTINGS

N.T.S.



EVERGREEN PLANTING DETAIL

N.T.S.



NOTE:

DO NOT PRUNE EVERGREENS EXCEPT TO REMOVE DEAD AND BROKEN BRANCHES.

REMOVE BURLAP FROM TOP 1/3 OF BALL OR WITH CONTAINER PLANTS

SET ROOT COLLAR AT FINISHED GRADE

3" OF MULCH MOUND TO FORM SAUCER

PLANT MIXTURE AS SPECIFIED

SUBGRADE

BALLED AND BURLAP SHRUBS

BARE ROOT OR CONTAINER SHRUBS

SHRUB PLANTING DETAIL

N.T.S.



PLANT MIX AS SPECIFIED

1" FINELY SHREDDED COMPOSITE BARK

FINISHED GRADE

MINIMUM 4" TOPSOIL

APPLY ANTI-DESICCANT FOR FALL PLANTINGS.

PRUNE ONLY BROKEN OR DEAD BRANCHES

THREE (3) GALVANIZED, TWISTED, 14 GAUGE WIRES AT 120" AROUND TREE. ATTACH TO TREE USING POLYPROPYLENE STRAPS UP THE TREE ABOVE THE FIRST BRANCHES. TENSION OF WIRES NOT TAUT TO ALLOW FOR SMALL AMOUNT OF TRUNK MOVEMENT. REMOVE AFTER ONE (1) YEAR.

ROOT COLLAR SHALL BE LEVEL OR 1" HIGHER THAN THE ADJACENT FINISH GRADE. REMOVE EXCESS SOIL FROM TOP OF ROOT BALL.

TWO INCHES (2") OF HARDWOOD BARK MULCH OR APPROVED EQUAL. MULCH TO WITHIN SIX INCHES (6") OF TRUNK / COLLAR.

4" X 2" X 2" HARDWOOD STAKE 180" APART, DRIVEN FLUSH TO FINISH GRADE. TWO (2) PER TREE.

REMOVE ALL TWINE, WIRE, ROPE AND BURLAP FROM THE TOP 1/3 OF ROOT BALL. ALL NON-ORGANIC MATERIAL FROM ENTIRE BALL. FOR WIRE BASKETS, CUT TOP AND FOLD DOWN IN THE PIT AFTER POSITIONED AND READY FOR BACKFILL.

BACKFILL USING SPECIFIED SOIL MIX. WATER THOROUGHLY TO ELIMINATE AIR POCKETS. DO NOT COMPACT.

NOTE: NYLON BURLAP IS UNACCEPTABLE

APPLY ANTI-DESICCANT FOR FALL PLANTINGS.

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THREE (3) GALVANIZED, TWISTED, 14 GAUGE WIRES AT 120" AROUND TREE. ATTACH TO TREE USING POLYPROPYLENE STRAPS UP THE TREE ABOVE THE FIRST BRANCHES. TENSION OF WIRES NOT TAUT TO ALLOW FOR SMALL AMOUNT OF TRUNK MOVEMENT. REMOVE AFTER ONE (1) YEAR.

ROOT COLLAR SHALL BE LEVEL OR 1" HIGHER THAN THE ADJACENT FINISH GRADE. REMOVE EXCESS SOIL FROM TOP OF ROOT BALL.

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REMOVE ALL TWINE, WIRE, ROPE AND BURLAP FROM THE TOP 1/3 OF ROOT BALL. ALL NON-ORGANIC MATERIAL FROM ENTIRE BALL. FOR WIRE BASKETS, CUT TOP AND FOLD DOWN IN THE PIT AFTER POSITIONED AND READY FOR BACKFILL.

BACKFILL USING SPECIFIED SOIL MIX. WATER THOROUGHLY TO ELIMINATE AIR POCKETS. DO NOT COMPACT.

NOTE: NYLON BURLAP IS UNACCEPTABLE



Table with columns for date, no., description, checked by, and date.



Project information including drawing name (3700 HORIZON DRIVE), location (UPPER MERION TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA), project no. (2019-051), date (6/17/20), and sheet no. (C6.2).

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GENERAL CONSERVATION NOTES AND SPECIFICATIONS

INTENT OF CONSERVATION PROGRAM: THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSION OF THE EXPOSED SOILS DURING THE CONSTRUCTION AND PERMANENT LIFE PERIODS OF THE DEVELOPMENT. THE PROGRAM REQUIRES RETENTION OF ALL SEDIMENTS ON THE CONSTRUCTION SITE TO MINIMIZE THE IMPACT OF DEVELOPMENT ON EXISTING STREAMS AND ADJACENT PROPERTY OWNERS.

SURFACE STABILIZATION CRITERIA: ALL DENuded SOIL SURFACES, INCLUDING SOIL STOCKPILES, ARE SUBJECT TO EROSION AND SHALL BE STABILIZED EITHER TEMPORARILY OR PERMANENTLY IMMEDIATELY DURING NON-GERMINATING PERIODS. MULCH MUST BE APPLIED AT RECOMMENDED RATES.

SEEDING & MULCHING SPECIFICATIONS

TEMPORARY: SEEDING SHALL BE COMMON RYE GRASS APPLIED AT 45 LBS. PER ACRE. LIVING TO BE APPLIED AT 1000 LBS/ACRE. HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE.

PERMANENT: SEEDING SHALL BE 15% KENTUCKY BLUEGRASS, 35% KENTUCKY 31 FESCUE, 25% CHEWINGS FESCUE, 15% PERENNIAL RYE GRASS, AND 10% RECLEANED RHOPT AT A RATE OF 40 LBS. PER ACRE. LIVING TO BE APPLIED AT 3 TONS/ACRE. 10-20-30 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE. HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE.

THE NON-GERMINATING PERIODS ARE BETWEEN 6/15 THROUGH 8/15 AND 9/30 THROUGH 4/15. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED IMMEDIATELY FOLLOWING THE END OF THESE PERIODS. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDED WITH VEGETATIVE COVER AND STOCKPILES REMOVED IN FINISH GRADING. THERE IS TO BE NO EARTH DISTURBANCE OR VEGETATIVE CLEARING IN AREAS OUTSIDE OF THE DELINEATED AREAS TO BE DISTURBED.

SEDIMENT DISPOSAL:

SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE OF FLOOD PLAINS, WETLANDS, STEEP SLOPES, AND DRAINAGE SWALES. AREAS OF SEDIMENT DISPOSAL SHALL BE CONSIDERED C.V.A..

DUST CONTROL:

DUST AND OTHER PARTICULATES SHALL BE KEPT WITHIN TOLERABLE LIMITS BY USING WATER. APPLICATION SHALL BE AS NEEDED OR AS DIRECTED BY THE TOWNSHIP ENGINEER OR THE CONSERVATION DISTRICT.

CRITICAL VEGETATION AREAS (C.V.A.):

CRITICAL VEGETATION AREAS ARE TO BE GRADED, HYDROSEEDED AND MULCHED WITHIN 10 DAYS OF THE BEGINNING OF EXCAVATION. IN GENERAL, CRITICAL VEGETATION AREAS ARE DEFINED AS CUT SLOPES STEEPER THAN 3:1V, ALL FILL SLOPES STEEPER THAN 4:1V AND ALL DRAINAGE SWALES.

GENERAL NOTES FOR UTILITY CONSTRUCTION

- 1. EXCAVATED MATERIAL SHOULD BE STAGED ON THE UPSTREAM SIDE OF A TRENCH.
2. THE DAILY EXTENT OF TRENCHING SHOULD NOT EXCEED WHAT CAN BE BACK FILLED AND STABILIZED IN ONE WORKING DAY.
3. LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
4. WORK CREWS AND EQUIPMENT FROM TRENCHING, PLACEMENT OF PIPE, AND BACKFILLING WILL BE KEPT SEPARATE AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
5. WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE.
6. ON THE DAY OF BACKFILL AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
7. SOILS EXCAVATED FROM EXISTING SURFACE LAYER SHOULD BE STOCKPILED SEPARATELY AND RETURNED AS FINAL SURFACE LAYER FOLLOWING TRENCH BACKFILLING.

MAINTENANCE SCHEDULE FOR TEMPORARY SEDIMENTATION CONTROL STRUCTURES

INSPECTION AND MAINTENANCE OF ALL FACILITIES SHALL BE MADE AFTER EACH RAIN STORM EVENT AND ON A WEEKLY BASIS. MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE "EROSION AND SEDIMENT CONTROL NARRATIVE".

MAINTENANCE PROGRAM FOR TEMPORARY SEDIMENTATION CONTROLS STRUCTURES

MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND AS STATED BELOW:

- 1. ROCK CONSTRUCTION ENTRANCE - MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 30 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH CURB. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF SILT FENCING.
2. EROSION CONTROL BLANKET (ECB) - BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.
3. PUMPED WATER FILTER BAGS - FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
4. COMPOST FILTER SOCK - ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. INLET PROTECTION - INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
6. ROCK FILTER OUTLET - SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. ADD ADDITIONAL ROCK AS NEEDED.
7. CONTROLLED NON-DISCHARGE CONCRETE WASHOUT - ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. WHEN WASHOUT MATERIAL REACHES 50% CAPACITY OF FILTERING HEIGHT, STOP USAGE OF THAT RING. WHEN STABLE, BREAK UP CONCRETE WASHOUT MATERIAL AND DISPOSE APPROPRIATELY.
8. TEMPORARY STABILIZATION - ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED SHALL BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES.

MAINTENANCE OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES

MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE "EROSION AND SEDIMENT CONTROL NARRATIVE". INSPECTION AND MAINTENANCE OF ALL FACILITIES SHALL BE MADE AFTER EACH RAIN STORM EVENT AND ON A WEEKLY BASIS. INSPECTIONS SHALL BE LOGGED ONTO DEP FORM 3803-FM-8CWO271.D, DATED 1/2019 AND KEPT ON SITE AT ALL TIMES.

VISUAL INSPECTIONS

THE PERMITTEE AND CO-PERMITTEE(S) MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED DAILY, AND WITHIN 24 HOURS AFTER EACH MEASURABLE RAINFALL EVENT THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE RECEIPT AND ACKNOWLEDGMENT OF THE NOT BY THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT. THE VISUAL SITE INSPECTIONS AND REPORTS SHALL BE COMPLETED IN A FORMAT PROVIDED BY THE DEPARTMENT, AND CONDUCTED BY QUALIFIED PERSONNEL TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL. TO ASCERTAIN THAT E&S BMPs AND PCSM BMPs ARE PROPERLY CONSTRUCTED AND MAINTAINED TO EFFECTIVELY MINIMIZE POLLUTION TO THE WATERS OF THIS COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL UTILIZE PADEF FORM 3150-FM-BWEW003 DATED FEBRUARY 2012 AND BE KEPT ON SITE AT ALL TIMES AND INCLUDE AT A MINIMUM:
1. A SUMMARY OF SITE CONDITIONS, E&S BMP AND PCSM BMP IMPLEMENTATION AND MAINTENANCE AND COMPLIANCE ACTIONS
2. THE DATE, TIME, NAME AND SIGNATURE OF THE PERSON CONDUCTING THE INSPECTION.

NON-COMPLIANCE REPORTING

WHERE E&S, PCSM, OR PPC BMPs ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR AT ANY OTHER TIME, THE PERMITTEE AND CO-PERMITTEES SHALL, WITHIN 24 HOURS, CONTACT THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT, BY PHONE OR PERSONAL CONTACT, FOLLOWED BY THE SUBMISSION OF A WRITTEN REPORT WITHIN 5 DAYS OF THE INITIAL CONTACT. NON-COMPLIANCE REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
1. ANY CONDITION ON THE PROJECT SITE WHICH MAY ENDANGER PUBLIC HEALTH, SAFETY, OR THE ENVIRONMENT, OR INVOLVE INCIDENTS WHICH CAUSE OR THREATEN POLLUTION.
2. THE PERIOD OF NON-COMPLIANCE, INCLUDING EXACT DATES AND TIMES AND/OR ANTICIPATED TIME WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.
3. STEPS BEING TAKEN TO REDUCE, ELIMINATE, AND PREVENT RECURRENCE OF THE NON-COMPLIANCE, AND
4. THE DATE OF SCHEDULE OF DATES, AND IDENTIFYING REMEDIES FOR CORRECTING NON-COMPLIANCE CONDITIONS.

POTENTIAL THERMAL IMPACTS

THERMAL IMPACTS DURING CONSTRUCTION ACTIVITIES WILL BE MINIMIZED THROUGH AVOIDING DIRECT DISCHARGE INTO RECEIVING BODIES OF WATER, LIMITING THE EXTENT AND DURATION OF EARTH DISTURBANCE AND THE USE OF COMPOST FILTER SOCK, WHICH IS THE PRIMARY PERIMETER CONTROL. RUNOFF WILL BE TREATED BY THE COMPOST FILTER SOCK AND THEN DISCHARGED TO STABILIZED VEGETATIVE COVER, AS THE DISCHARGE FLOWS BELOW THE CAPACITY OF EXISTING VEGETATION (LAWN, GRASS, ETC.). THE DISCHARGE WILL BE AFFORDED TIME TO COOL PRIOR TO REACHING THE RECEIVING WATERWAYS.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEW AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL ENGINEER, SUPERVISOR OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM, SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING WILL NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE SLOPES SHALL BE 3:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE STORED AT THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-201 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.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN. OVER UNDISTURBED VEGETATED AREAS.
14. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RE-SEEDING, RE-MULCHING AND RE-SETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
15. A LOG SHOWING DATES THE E&S BMPs WERE MAINTAINED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
16. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY, OR AS NEEDED, OR AS DIRECTED BY THE CCDD OR THE MUNICIPALITY. ALL DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOULED, OR SWEEPED INTO ANY ROAD SIDE DITCH, DRAINAGE DITCH, OR SURFACE WATER.
17. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
18. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
19. 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.
20. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
21. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILL.
22. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
23. FILLS SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
24. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
25. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON RECEIVING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. ALL SLOPES 3:1V OR STEEPER AND SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THE PLAN.
26. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING PERIODS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN DRAWINGS. THE STABILIZATION WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
27. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
28. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
29. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
30. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
31. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
32. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LODEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN PENNSYLVANIA CLEAN STREAMS LAW. THE PENNSYLVANIA CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MIDDLE-SEVERE CRIMINAL PENALTIES FOR EACH VIOLATION. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
33. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL, SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. 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.
34. CHANNELS HAVING RIPRAP, RENO MATRIESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASHOUT WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE SURFACE WATERS.
35. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THRO PARTIES.
36. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITTEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, LOCAL CONSERVATION DISTRICT, AND THE OWNER OF THE DAMAGED PROPERTY.
37. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
38. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
39. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.

*DENOTES A CRITICAL STAGE WHEN A LICENSED PROFESSIONAL IS TO BE ON SITE.

ANTICIPATED E&S BMP RELATED CONSTRUCTION WASTES AND DISPOSAL PROCEDURES

SEDIMENT: SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE OF FLOODPLAINS, WETLANDS, STEEP SLOPES, AND DRAINAGE SWALES. SILT AND SEDIMENT CATEGORIZED AS CONTAMINATED SHALL BE DISPOSED OF PER THE SOIL MANAGEMENT NOTES.

TRASH & LITTER: TRASH AND LITTER SHALL BE REMOVED FROM EROSION AND SEDIMENTATION CONTROL BMPs AND DISPOSED OF IN APPROPRIATE TRASH RECEPTACLE.

CONCRETE WASHWATER: CONCRETE WASHWATER SHALL BE DISPOSED OF IN THE LOCATION SHOWN ON-SITE. ONCE WASHWATER SOLIDIFIES THE HARDENED CONCRETE SHALL BE DISPOSED OF OFF-SITE IN AN APPROVED MANNER.

NOTE: ANY APPLICABLE MATERIAL SHALL BE RECYCLED IN ACCORDANCE TO THE APPROPRIATE REGULATIONS.

SEQUENCE OF CONSTRUCTION:

- 1. AT LEAST 7 DAYS BEFORE ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
2. STABILIZATION NOTE - UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. HYDROSEED IS NOT CONSIDERED STABILIZATION UNTIL IT GERMINATES.
3. PERMANENT STABILIZATION - HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. HYDROSEED IS NOT CONSIDERED STABILIZATION UNTIL IT GERMINATES.
4. PLACE PERIMETER EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
5. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
6. PLACE COMPOST FILTER SOCKS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
7. INSTALL STABILIZED CONSTRUCTION ENTRANCE. CONTRACTOR MAY MODIFY LOCATION OF THE CONSTRUCTION ENTRANCES AS REQUIRED DURING CONSTRUCTION. CONTRACTOR TO UTILIZE ACCEPTABLE STANDARDS AND PRACTICES TO ENSURE SEDIMENT IS NOT TRACKED OFF THE PROPERTY AND ONTO PUBLIC RIGHTS-OF-WAY. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY, AS APPROPRIATE.
8. CLEAR AND GRUB TREES AND VEGETATION AS NEEDED THROUGHOUT THE DISTURBANCE AREA.
9. REMOVE AND DISPOSE OF AND/OR RECYCLE EXISTING ASPHALT, CONCRETE, GRAVEL AND CURB.
10. EXCAVATE FOR FOUNDATIONS OF SERVICE DRIVE RETAINING WALL, THEN INSTALL FOOTINGS AND CONSTRUCT WALL. AS SOON AS SLOPES, CHANNELS, DITCHES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED.
11. INSTALL THE UNDERGROUND DETENTION BASIN.
12. INSTALL STORM STRUCTURES AND DRAINS WITH WATER QUALITY REACH (NOTE THAT INLET PROTECTION SHALL BE PROVIDED UNTIL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED).
13. EXCAVATE AND CONSTRUCT THE BUILDING FOUNDATION. NOTE THAT THIS CAN OCCUR ONCE SERVICE DRIVE IS CONSTRUCTED.
14. CONSTRUCT BUILDING.
15. INSTALL WATER AND SANITARY TO THE BUILDING.
16. INSTALL GAS, ELECTRIC, AND TELECOMMUNICATIONS SERVICES.
17. INSTALL WATER AND SANITARY TO THE BUILDING. PROVIDE STABILIZATION OF ALL INTERNAL SIDEWALK. PROVIDE STABILIZATION OF ALL CONSTRUCTED PARKING AREAS AND DRIVEWAYS TO MINIMUM OF STONE SUBBASE AND COMPLETION OF ALL GRADING AND UTILITY INSTALLATION OF PARKING LOTS, CURBS, AND SIDEWALKS. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY.
18. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
19. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE SLOPES SHALL BE 3:1V OR FLATTER.
20. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
21. ALL BUILDING MATERIALS AND WASTES SHALL BE STORED AT THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
22. A FINAL INSPECTION SHALL BE CONDUCTED BY THE MONTGOMERY COUNTY CONSERVATION DISTRICT TO ENSURE ALL INSTALLED PCSM BMPs ARE FUNCTIONING AND HAVE NOT BEEN IMPAIRED BY PREVIOUS CONSTRUCTION ACTIVITIES. UPON COMPLETION OF PERMITTED IMPROVEMENTS, PERMITTEE SHALL SUBMIT THE REQUIRED NOTICE OF TERMINATION.
23. *DENOTES A CRITICAL STAGE WHEN A LICENSED PROFESSIONAL IS TO BE ON SITE.

BMP 6.4.4 - WATER QUALITY STRUCTURE CONSTRUCTION SEQUENCE [CRITICAL STAGE]

- 1. STABILIZE ALL CONTRIBUTING AREAS BEFORE INSTALLING WATER QUALITY INSERTS.
2. *INSTALL INSERTS ON THE STORMWATER STRUCTURES AS NOTED ON PCSM PLANS. FOLLOW THE MANUFACTURER'S GUIDELINES FOR INSTALLATION.

BMP 6.4.3 & BMP 6.4.11 - SUBSURFACE DETENTION SYSTEM - MANAGED RELEASE CONCEPT - [DET-1] INSTALLATION SEQUENCE

- 1. THIS IS A CRITICAL STAGE OF CONSTRUCTION THAT MUST BE SUPERVISED BY A LICENSED PROFESSIONAL ENGINEER.
2. PRIOR TO START OF CONSTRUCTION, ENSURE THE EXCAVATION IS COMPLETELY DEWATERED.
3. EXCAVATE TO SUBGRADE SURFACE. PREPARE SUBGRADE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION.
4. PLACE AND COMPACT FILL MATERIAL PER RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL SPECIALIST.
5. *PLACE PRECAST STORM CAPTURE MODULE UNITS. SYSTEM IS TO BE WATERIGHT AND ENCLOSED ON BOTH THE TOP AND BOTTOM.
6. COMPLETELY WRAP SYSTEM WITH IMPERMEABLE LINER TO ENSURE ALL JOINTS ARE WATERIGHT.
7. BACKFILL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL ENSURE THAT NO FOREIGN MATERIAL, OR SEDIMENT ENTERS THE INTERIOR OF THE CISTERNS AT ANY TIME. ENSURE ALL STORAGE DRAINS TRIBUTARY TO SYSTEM ARE COMPLETELY FREE OF DEBRIS AND SEDIMENT. ALL STORM INLETS TRIBUTARY TO SYSTEM ARE TO REMAIN SEALED DURING CONSTRUCTION TO ENSURE NO SEDIMENT LAID OVER OR FOREIGN MATERIAL CAN ENTER.
8. UPON COMPLETE STABILIZATION OF UPSTREAM DRAINAGE AREA, INSPECT TO ENSURE PRE-INSURING DEVICES, INLETS, AND STORM DRAINS ARE FREE OF ANY DEBRIS AND SEDIMENT. RINSE SYSTEM, ENSURING RINSE WATER IS DIRECTED THROUGH A SEDIMENT CONTROL FACILITY.

* REPRESENTS A CRITICAL STAGE OF CONSTRUCTION THAT MUST BE PERFORMED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



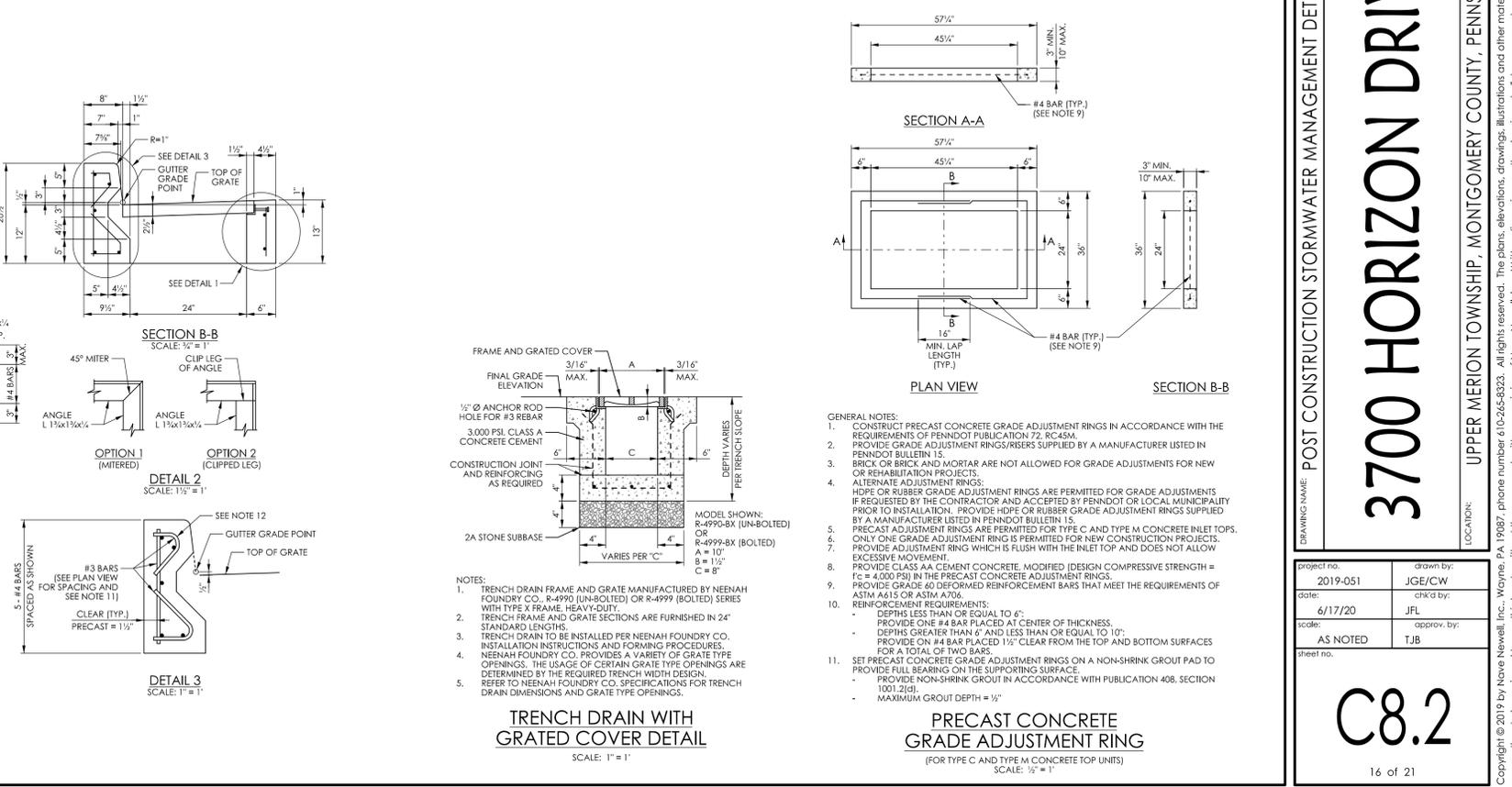
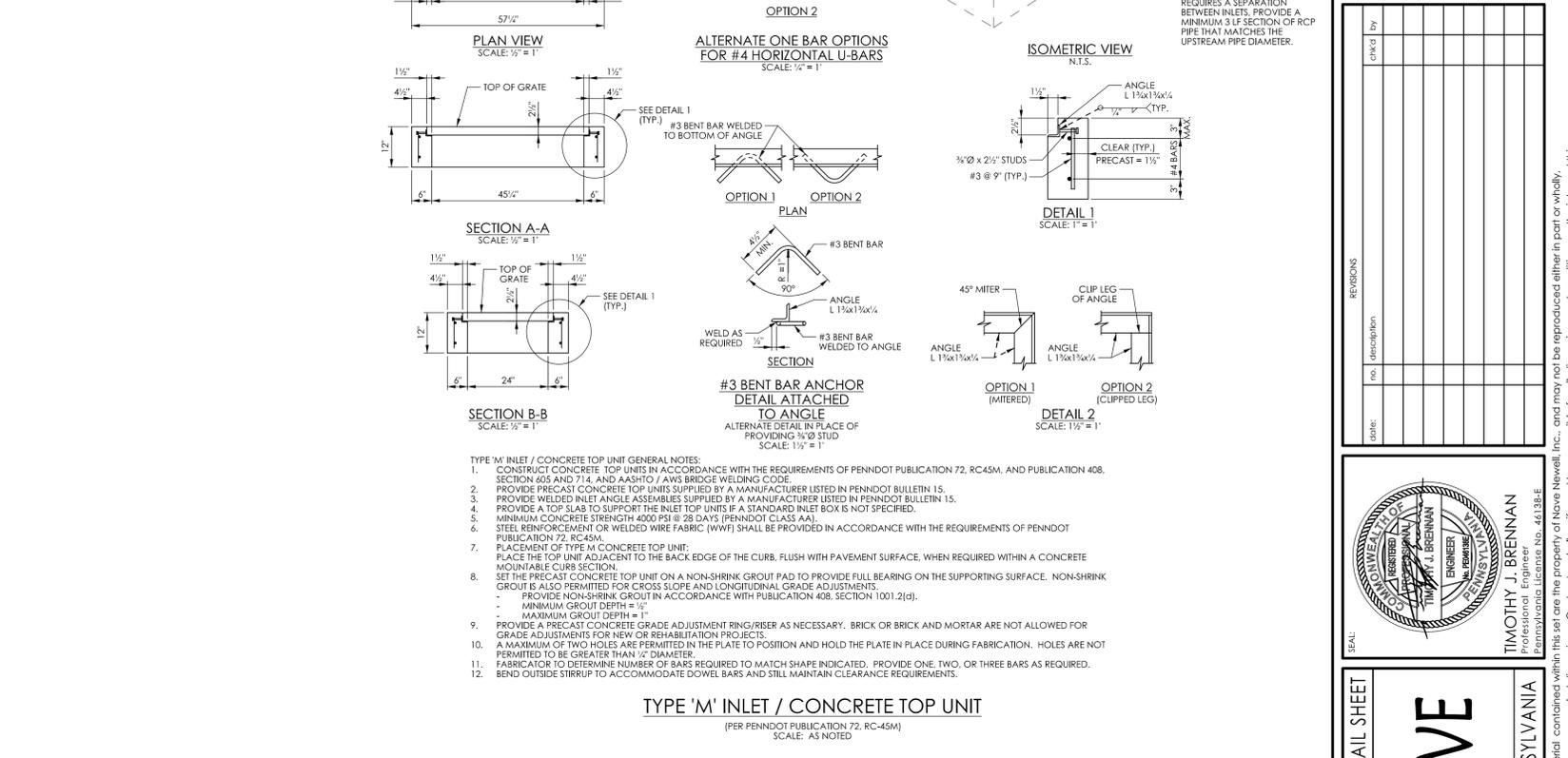
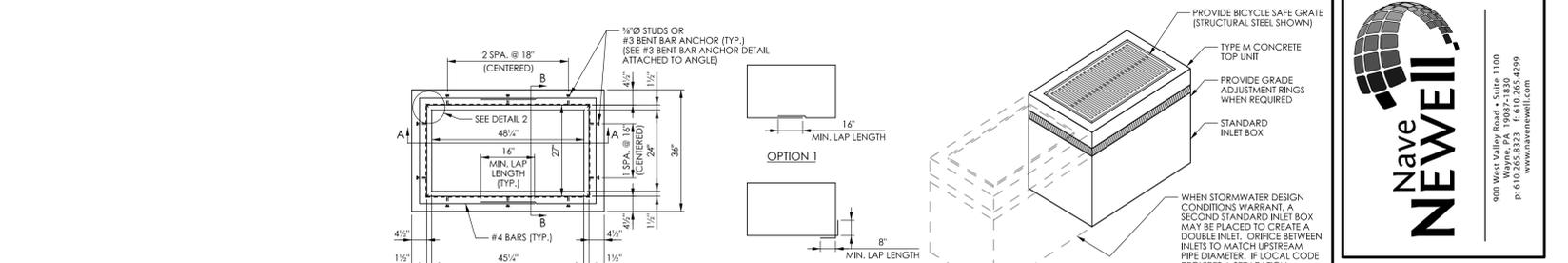
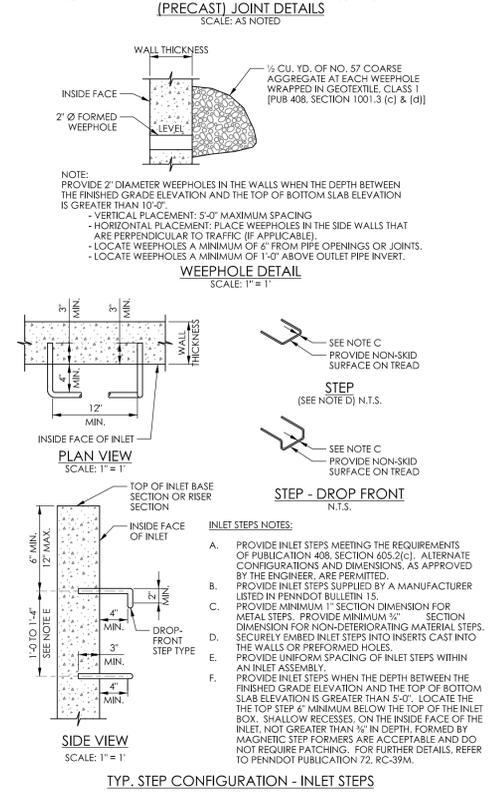
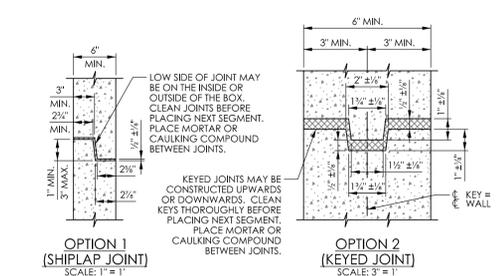
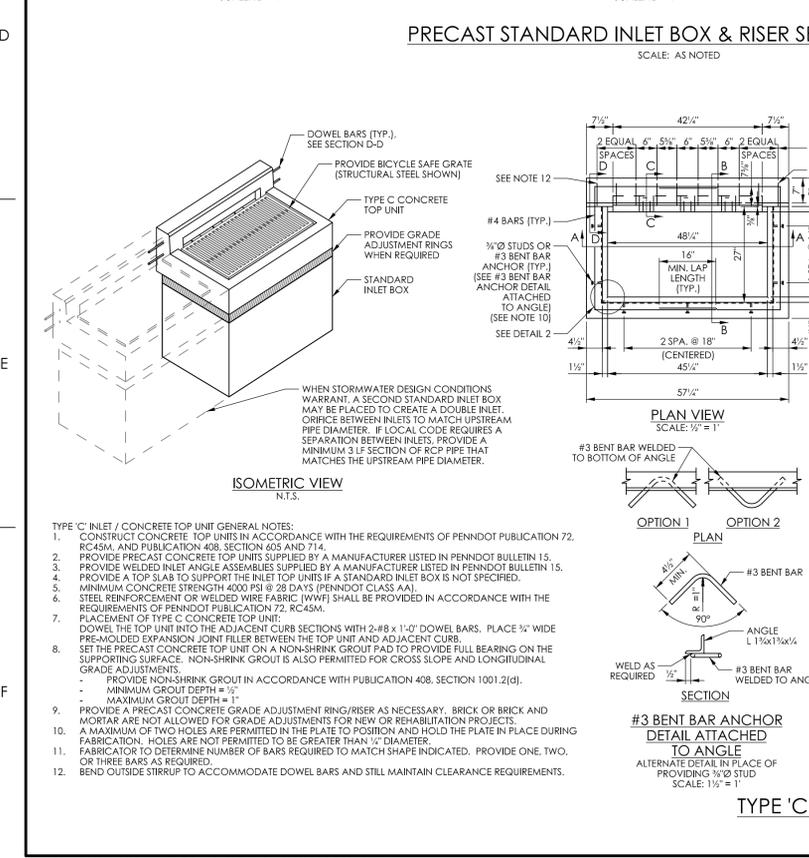
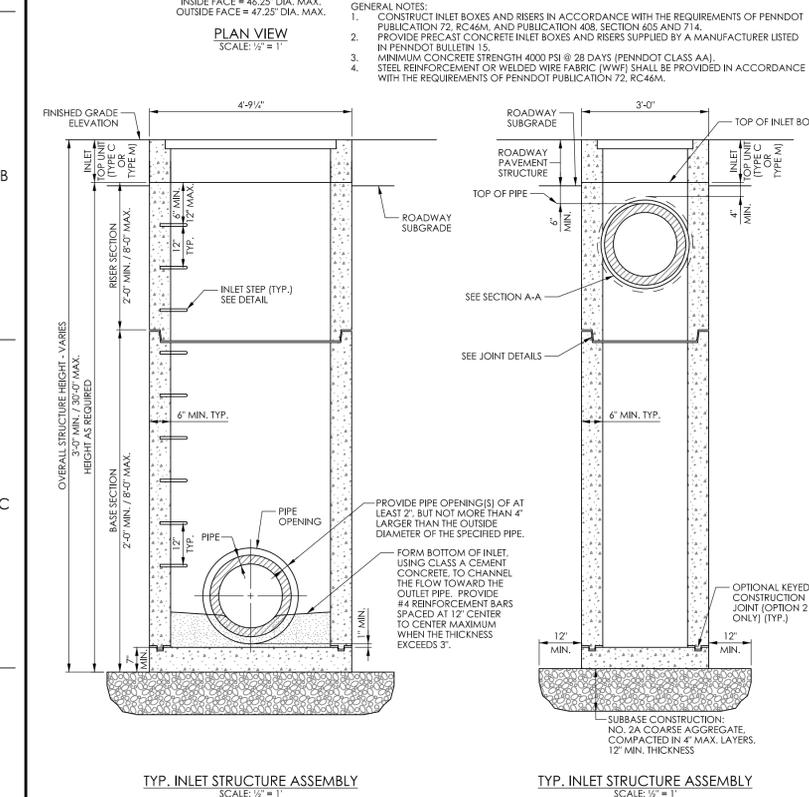
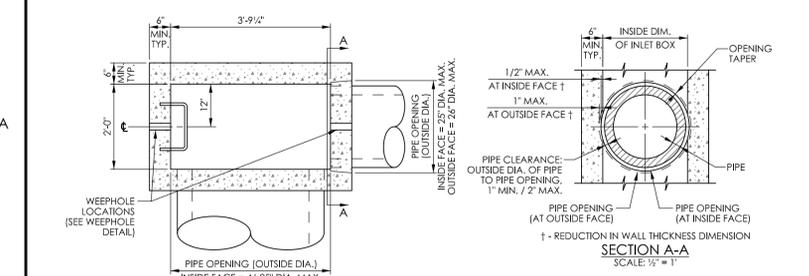
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EROSION & SEDIMENTATION CONTROL DETAIL SHEET
3700 HORIZON DRIVE
UPPER MERION TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA
TIMOTHY J. BRENNAN
Professional Engineer
Pennsylvania License No. 46138-E

Table with 2 columns: project no., date, scale, sheet no. Includes values: 2019-051, 6/17/20, N.T.S., C7.2

Table with 2 columns: drawn by, checked by, approved by. Includes values: JGE/CW, JFL, TJB



DATE	NO.	DESCRIPTION	BY	CHKD



POST CONSTRUCTION STORMWATER MANAGEMENT DETAIL SHEET

3700 HORIZON DRIVE

C8.2

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