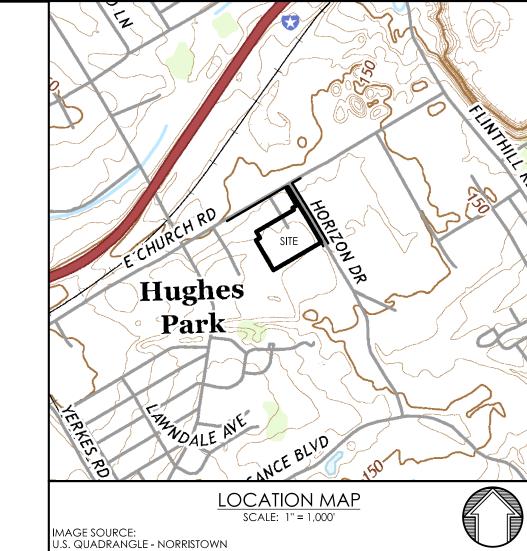
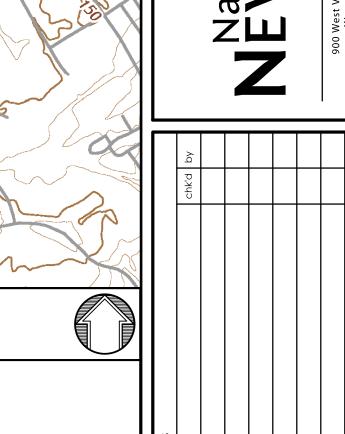
PRELIMINARY/FINAL LAND DEVELOPMENT PLANS **FOR**

3700 HORIZON DRIVE

SITUATED IN UPPER MERION TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA





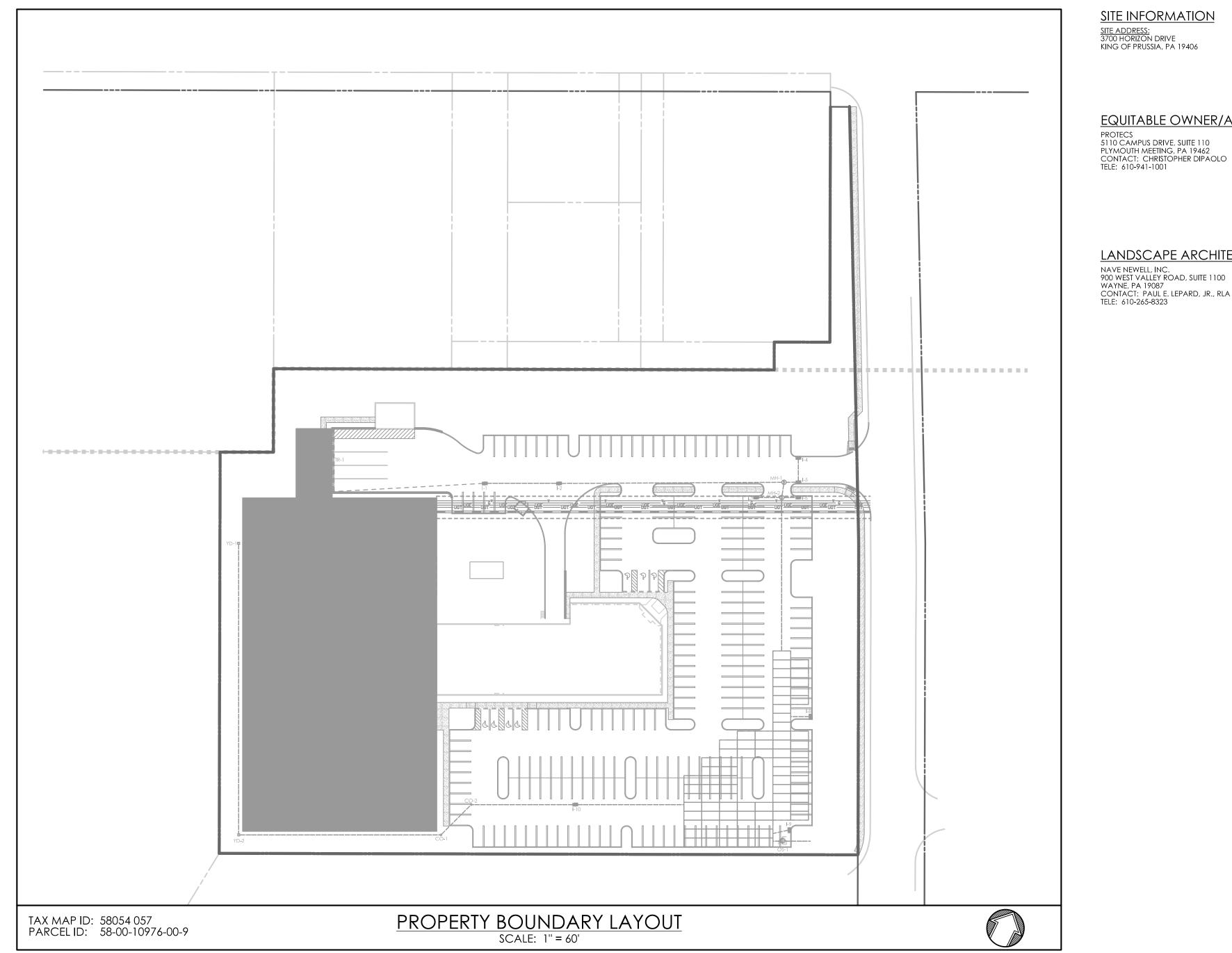


1 OF 1 VICINITY MAP

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<u>NO.</u>	<u>RELATION</u>	DESCRIPTION	START DATE	<u>RE</u>
C0.0	1 OF 21	TITLE SHEET	6/17/2020	
C1.0	2 OF 21	EXISTING FEATURES PLAN	6/17/2020	
C2.0	3 OF 21	DEMOLITION PLAN	6/17/2020	
C3.0	4 OF 21	SITE PLAN	6/17/2020	
C4.0	5 OF 21	GRADING PLAN	6/17/2020	
C5.0	6 OF 21	UTILITY PLAN	6/17/2020	
C5.1	7 OF 21	OFF-ROAD UTILITY PROFILE SHEET	6/17/2020	
C6.0	8 OF 21	LANDSCAPE PLAN	6/17/2020	
C6.1	9 OF 21	LIGHTING PLAN	6/17/2020	
C6.2	10 OF 21	LANDSCAPE & LIGHTING DETAIL SHEET	6/17/2020	
C7.0	11 OF 21	EROSION & SEDIMENT CONTROL PLAN	6/17/2020	
C7.1	12 OF 21	EROSION & SEDIMENTATION CONTROL DETAIL SHEET	6/17/2020	
C7.2	13 OF 21	EROSION & SEDIMENTATION CONTROL DETAIL SHEET	6/17/2020	
C8.0	14 OF 21	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN	6/17/2020	
C8.1	15 OF 21	POST CONSTRUCTION STORMWATER MANAGEMENT DETAIL SHEET	6/17/2020	
C8.2	16 OF 21	POST CONSTRUCTION STORMWATER MANAGEMENT DETAIL SHEET	6/17/2020	
C8.3	17 OF 21	POST CONSTRUCTION STORMWATER MANAGEMENT DETAIL SHEET	6/17/2020	
C8.4	18 OF 21	POST CONSTRUCTION STORMWATER MANAGEMENT DETAIL SHEET	6/17/2020	
C9.0	19 OF 21	CONSTRUCTION DETAIL SHEET	6/17/2020	
C9.1	20 OF 21	CONSTRUCTION DETAIL SHEET	6/17/2020	
C10.0	21 OF 21	ADA DETAIL SHEET	6/17/2020	

6/17/2020



EQUITABLE OWNER/APPLICANT

PROTECS
5110 CAMPUS DRIVE, SUITE 110
PLYMOUTH MEETING, PA 19462
CONTACT: CHRISTOPHER DIPAOLO
TELE: 610-941-1001

NAVE NEWELL, INC. 900 WEST VALLEY ROAD, SUITE 1100

LANDSCAPE ARCHITECT NAVE NEWELL, INC. 900 WEST VALLEY ROAD, SUITE 1100

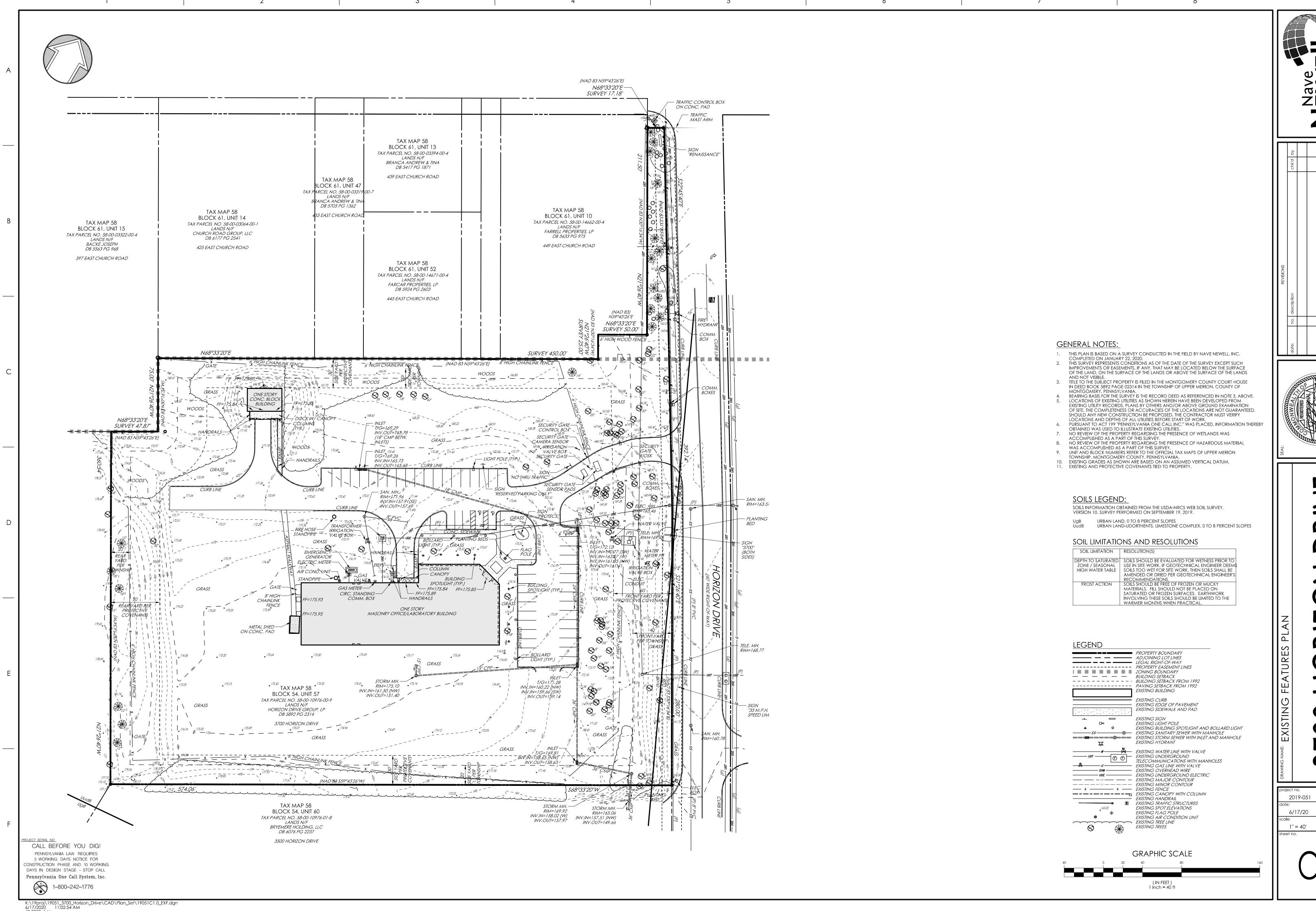
JGE/CW approv. by: **AS NOTED**

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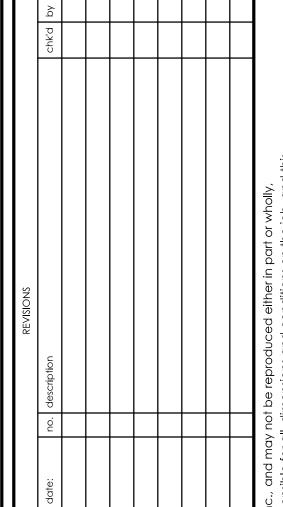
CALL BEFORE YOU DIG! PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING

DAYS IN DESIGN STAGE - STOP CALL Pennsylvania One Call System, Inc.



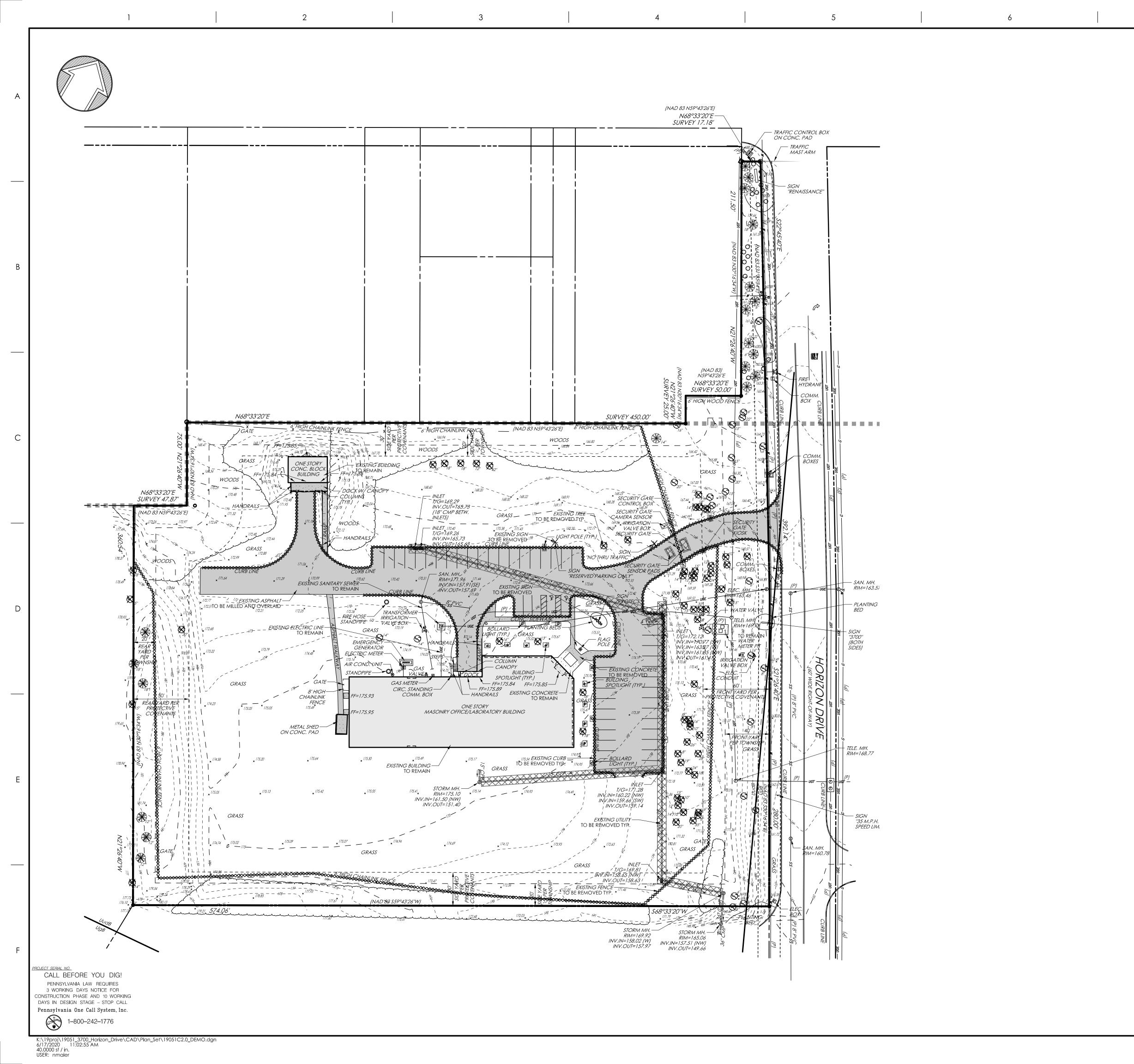
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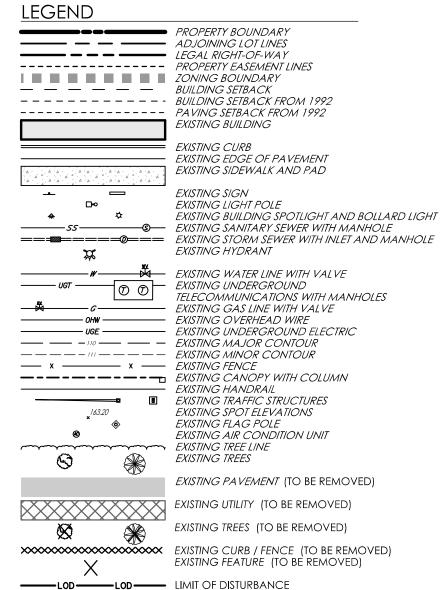




- LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREIN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS, PLANS BY OTHERS, ABOVE GROUND EXAMINATION OF THE SITE AND/OR PRIVATE UTILITY LOCATION COMPANY. THE COMPLETENESS OR ACCURACY OF THE LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR MUST VERIFY LOCATIONS
- AND DEPTHS OF ALL UTILITIES BEFORE START OF WORK PRIOR TO STARTING CONSTRUCTION, ALL UTILITY SERVICES IN THE AREA ARE TO BE LOCATED, THE USER NOTIFIED, AND MEASURES TAKEN TO PROTECT THE LINES IN ACCORDANCE WITH PA ACT 287, AS AMENDED. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT PA "ONE-CALL" AT LEAST 72 HOURS TO ANY EXCAVATION OR DEMOLITION ON-SITE.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO HE START OF DEMOLITION. THE EXISTING ASPHALT TO BE RESURFACED SHALL BE PATCHED, FILLED AND/OR REPAIRED
- AS NECESSARY PRIOR TO THE APPLICATION OF THE WEARING COURSE. IN ALL AREAS WHERE FINISHED PAVING IS TO BE PROVIDED, THE CONTRACTOR IS TO BREAK APART EXISTING ASPHALT TO EXISTING SUBBASE STONE. FOLLOWING MILLING THE EXPOSED SUBGRADE SHALL BE INSPECTED FOR ITS SUITABILITY AS PAVEMENT SUBBASE. IN AREAS WHERE EXISTING ASPHALT WILL BE CONVERTED TO GREEN SPACE OR BUILDING
- THE CONTRACTOR IS TO MILL OUT THE EXISTING ASPHALT FOR ITS REUSE ON-SITE AS SUBBASE IN PROPOSED ASPHALT PAVEMENT AREAS. ALL FILL MEASURES TO BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL SPECIFICATIONS. WHERE IMPROVEMENTS ARE PROPOSED TO TIE INTO EXISTING FEATURES, THE EXISTING FEATURES SHALL BE FIELD VERIFIED FOR ELEVATION AND LOCATION. IF FIELD LOCATED DATA IS DIFFERENT THAN THE DATA CONTAINED WITH THE CONSTRUCTION DOCUMENTS
- THE CONTRACTOR SHALL NOTIFY NAVE NEWELL, INC. PRIOR TO ANY DESIGN CHANGES. THE PAVEMENT SECTION AREA DELINEATED ON THE PLANS TO BE MODIFIED SHALL BE USED AS GUIDANCE. EXPAND OR CONTRACT THIS AREA AT THE TIE IN LOCATION TO EXISTING PAVEMENT, SIDEWALK, DRIVEWAY APRONS, AND LOADING AREAS AS THE FIELD CONDITIONS WARRANT. ALL PAVEMENT SEAMS SHALL BE SEALED.
- SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE DISCONNECTION, ABANDONMENT, RELOCATION AND/OR REMOVAL OF ALL APPLICABLE ON-SITE UTILITIES, IN
- ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS WELL AS ANY REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
- AS ANY REQUIREMIS FROM THE RELEVANT UTILITY COMPANY.

 ALL DEMOLITION SHALL BE PERFORMED BY A QUALIFIED, LICENSED CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

 THIS PLAN IS NOT INTENDED TO DEPICT ALL FACETS AND ITEMS TO BE ADDRESSED DURING THE COURSE OF DEMOLITION ACTIVITIES. THIS PLAN IS INTENDED TO REPRESENT ONLY THE READILY VISIBLE, EXISTING IMPROVEMENTS ON-SITE. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SERVICES REQUIRED TO COMPLETE THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS. UPON INITIATION OF DEMOLITION, CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD
- IMMEDIATELY, SHOULD CONFLICTS ARISE IN THE FIELD.
 CONTRACTOR IS TO EXERCISE CARE WHEN REMOVING PAVEMENT OVER EXISTING PIPES TO REMAIN. DURING CONSTRUCTION, CONTRACTOR SHALL TAKE STEPS TO MAINTAIN ADEQUATE COVER OVER ALL EXISTING PIPES TO REMAIN AND TO PREVENT CONSTRUCTION TRAFFIC FROM DAMAGING SAID PIPES. IF THE EXISTING PIPES ARE DAMAGED, THE CONTRACTOR SHALL
- REPLACE THEM IN KIND AT THE CONTRACTORS COST. ALL PAVEMENT WITHIN THE LIMITS OF DISTURBANCE NOT SCHEDULED TO BE REMOVED SHALL BE MILLED AND OVERLAID WITH ID-2 BITUMINOUS WEARING COURSE. MILLING AND OVERLAYING SHALL BE PERFORMED TO MAKE PATCHING NONVISUAL WHEN COMPLETED.
- 13. CONTRACTOR SHALL USE EXTREME CAUTION WHEN REMOVING EXISTING UTILITIES TO PREVENT ANY DISTURBANCE TO UTILITIES THAT ARE TO REMAIN. IF SAID REMAINING UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY REPAIRS. 14. ALL UTILITIES TO BE ABANDONED AND LEFT IN PLACE SHALL BE PLUGGED AND FILLED
- WITH FLOWABLE CONCRETE. 15. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL
- 16. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.



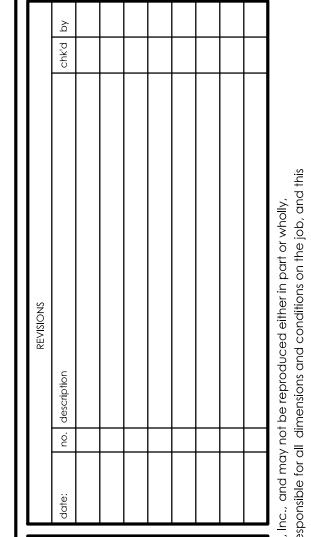
GRAPHIC SCALE

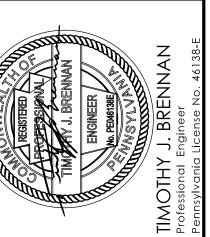
(IN FEET)

1 inch = 40 ft

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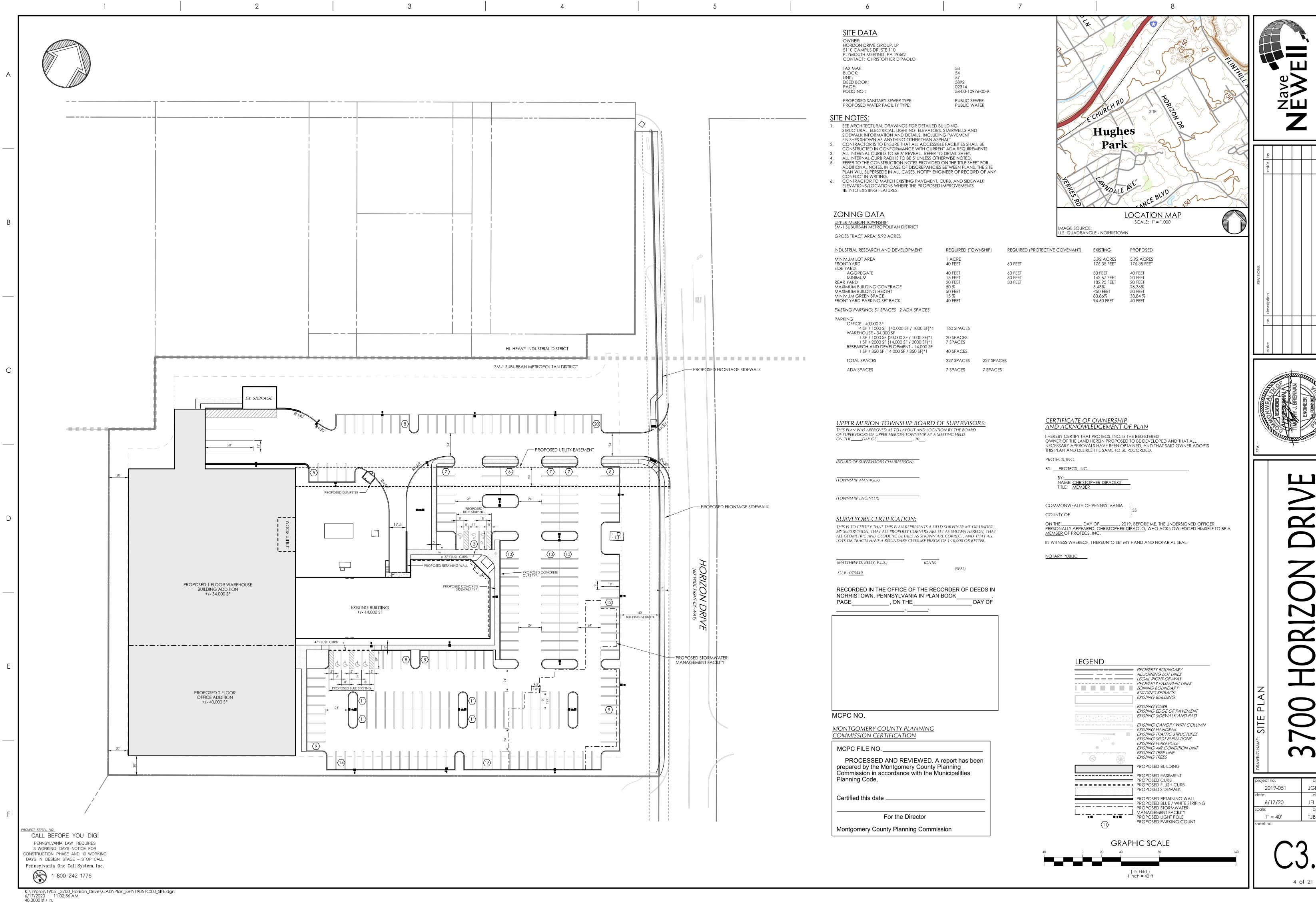




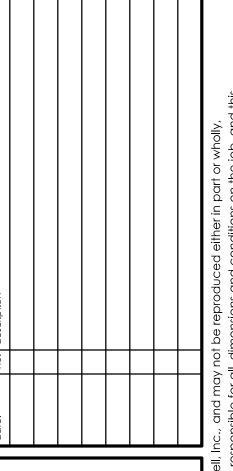
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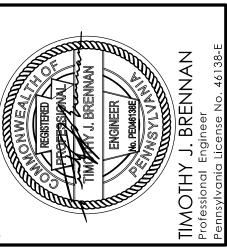
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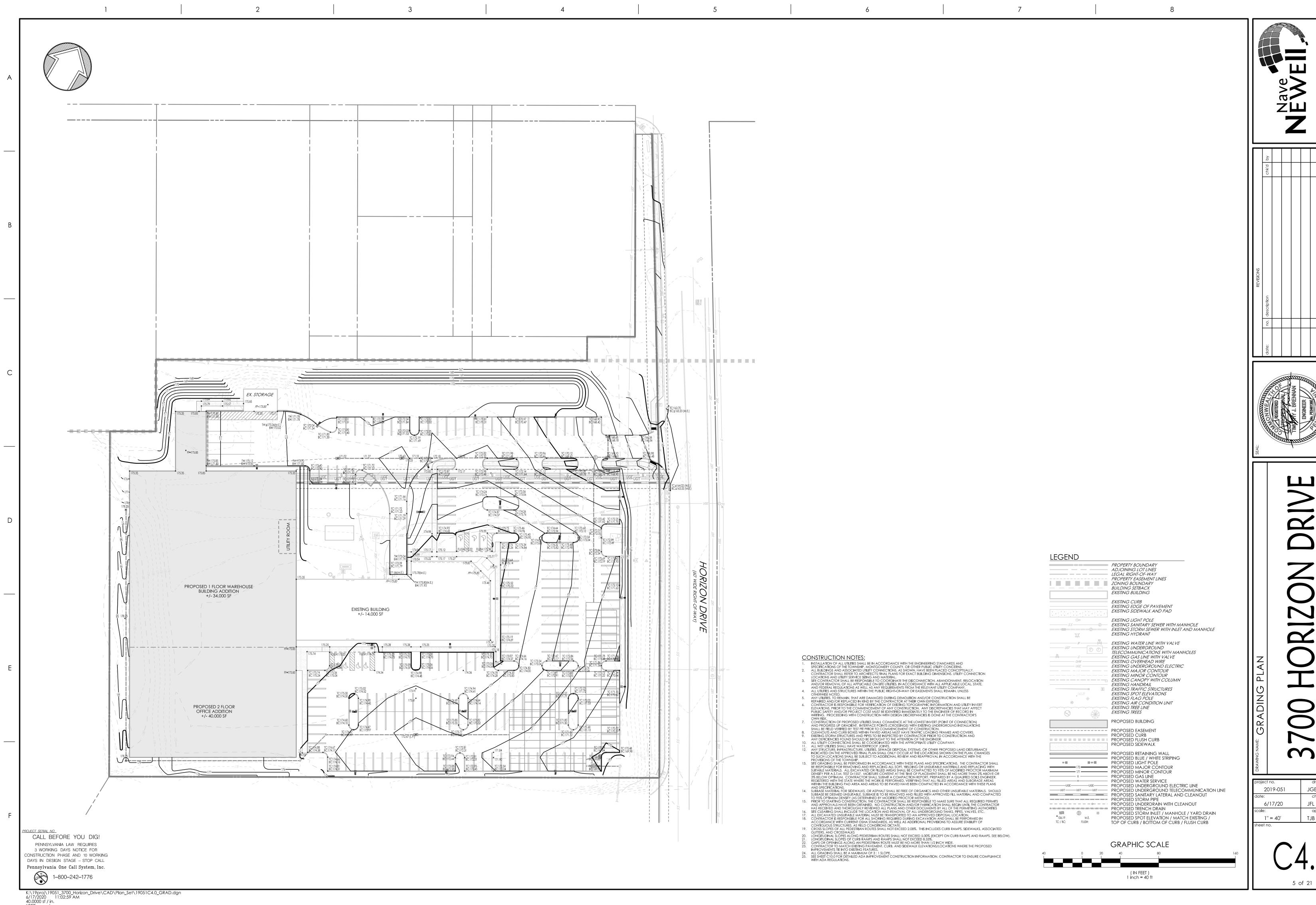


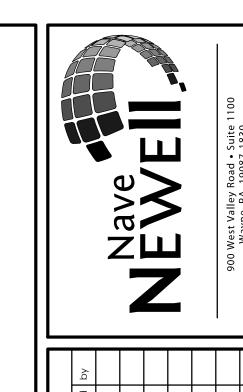


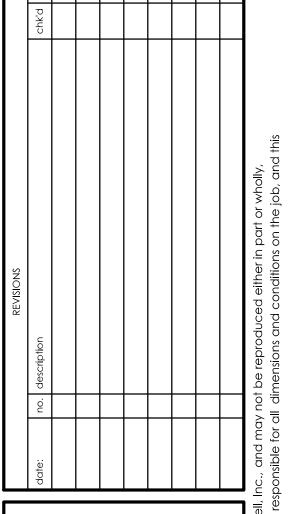


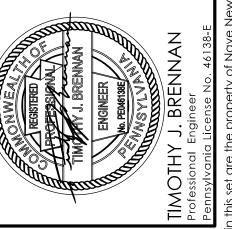


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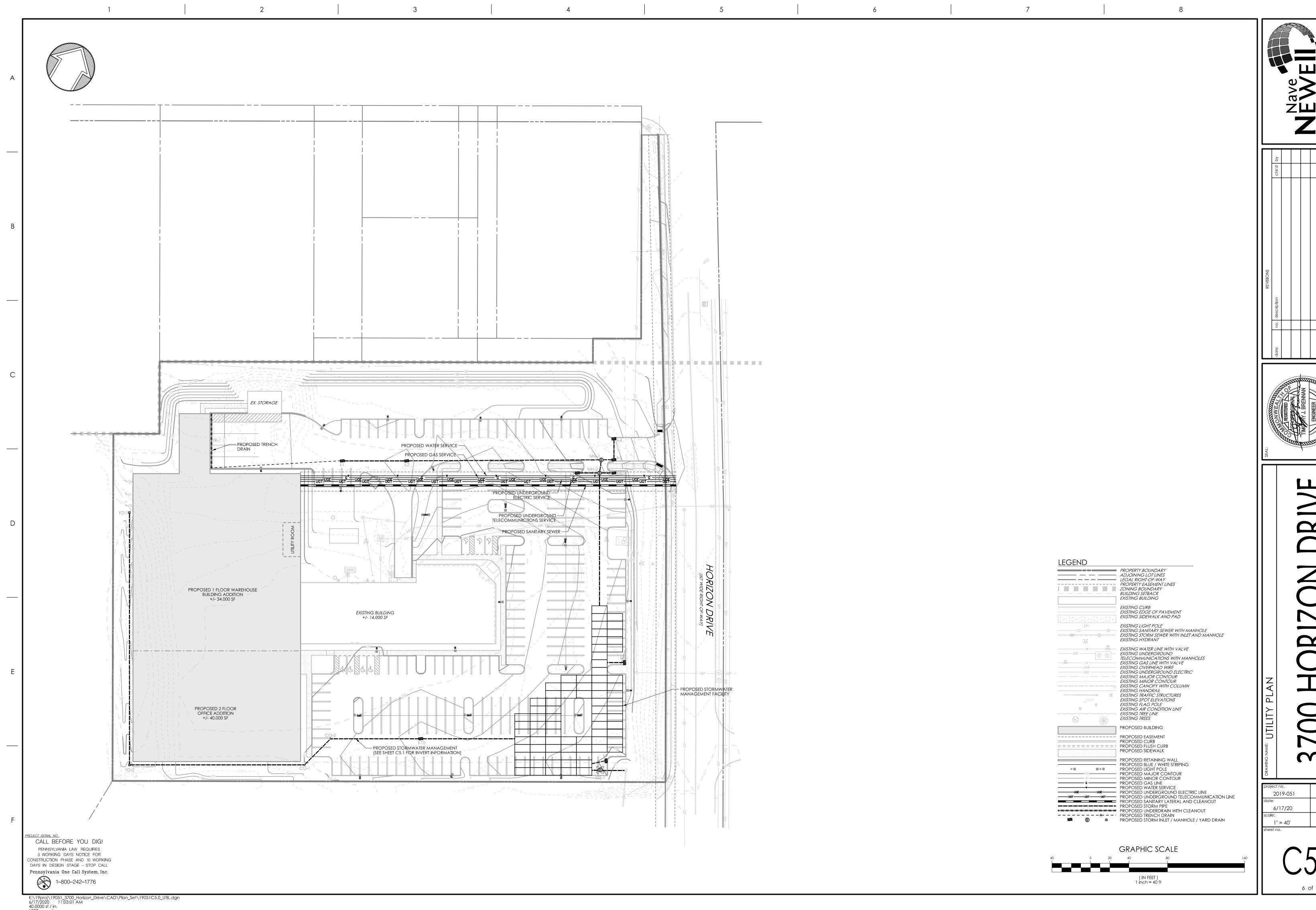






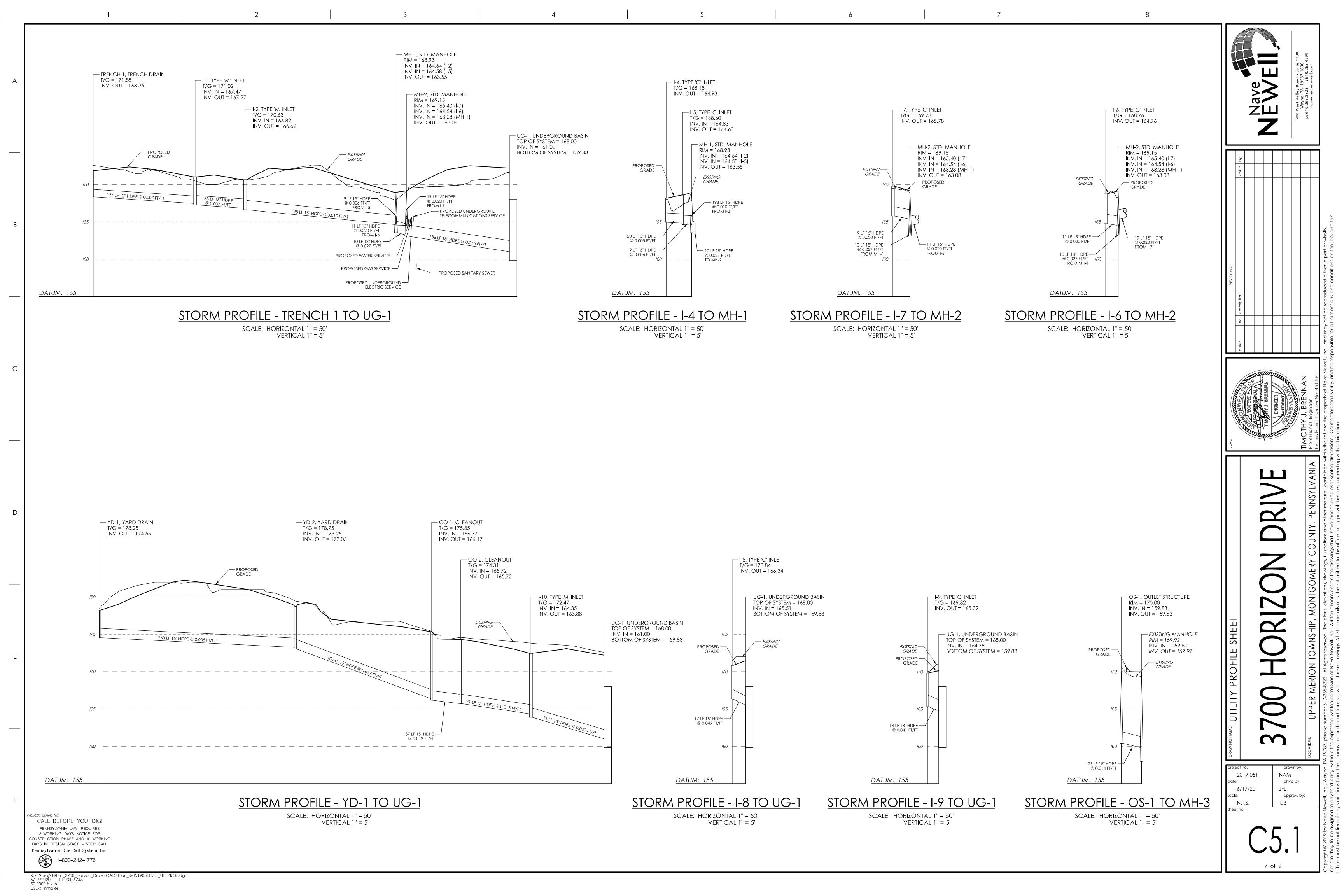
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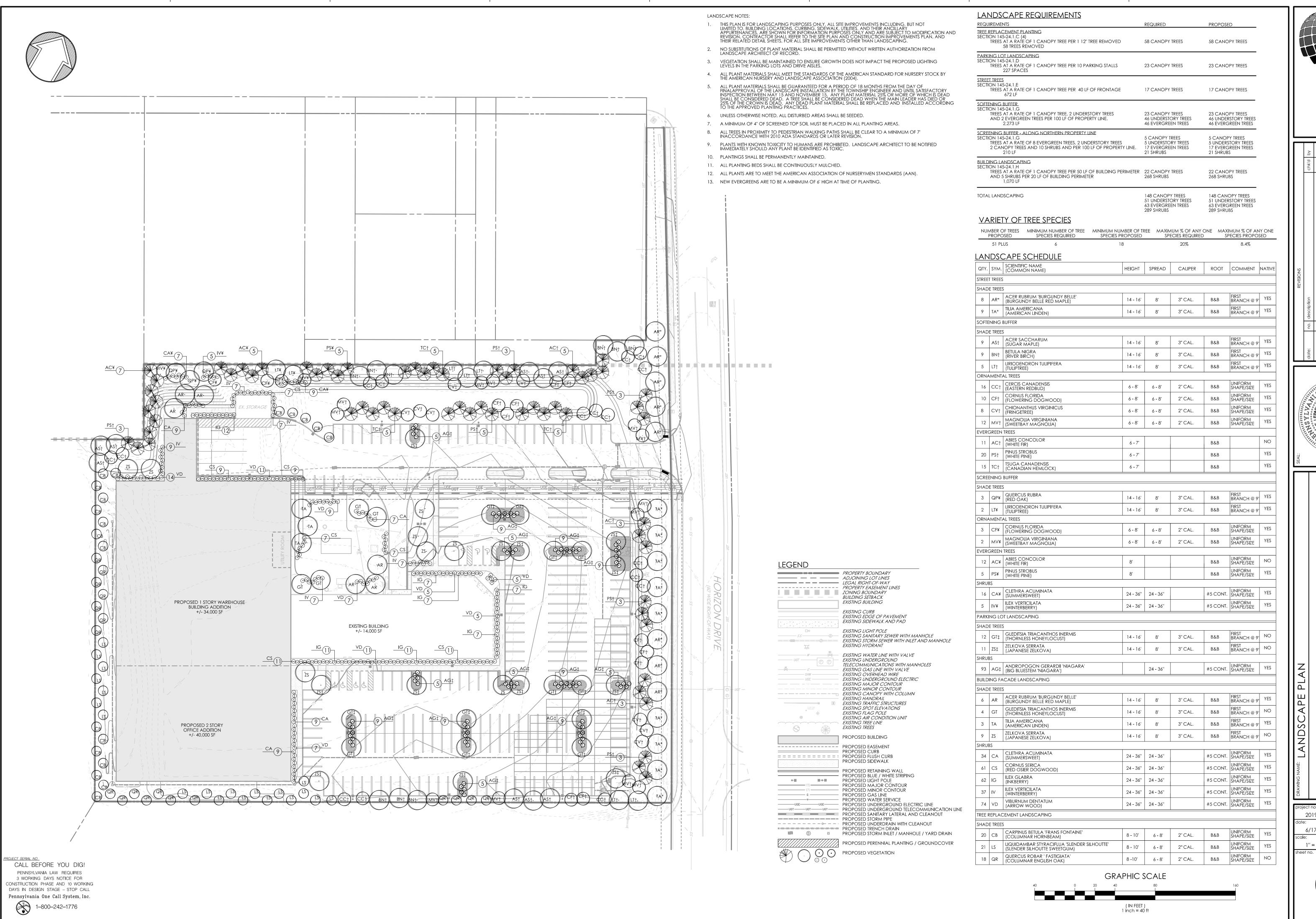
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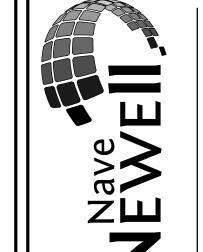


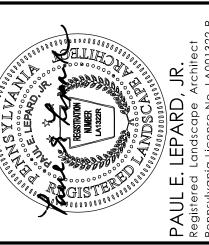
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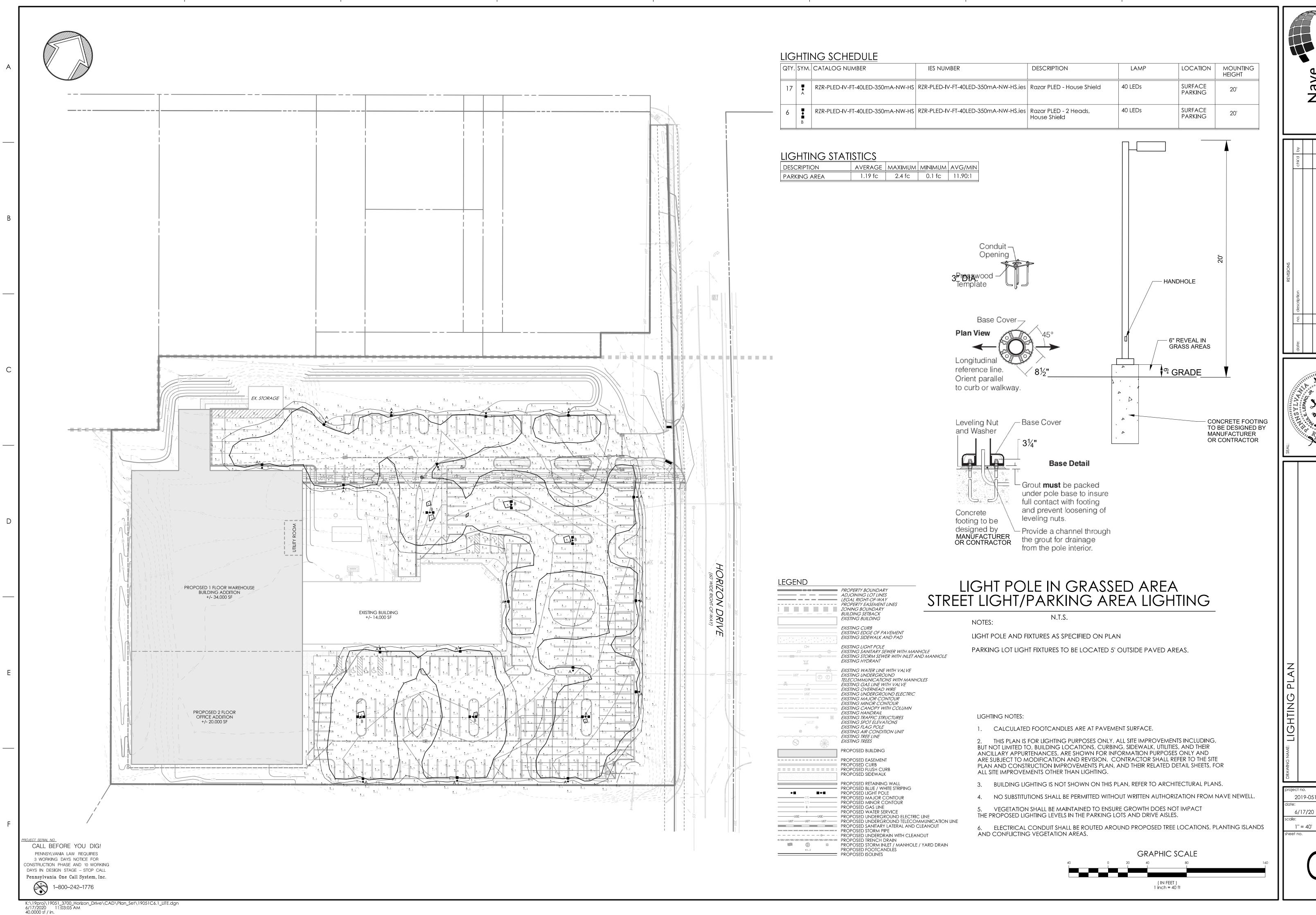


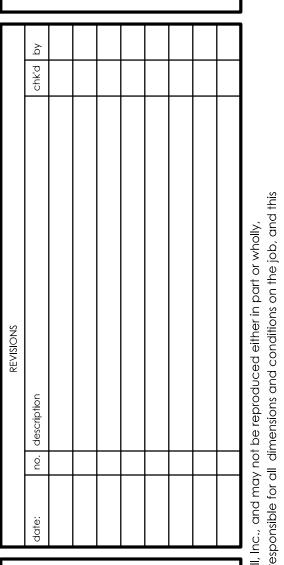
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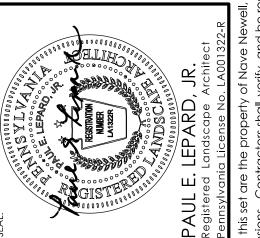
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PLANTING SCHEDULE - ALL PLANT MATERIAL SHALL BE PLANTED NO EARLIER THAN APRIL 15 AND MAY CONTINUE THROUGH JUNE 15 OR BEGIN SEPTEMBER 1 BUT CONTINUE NO LATER THAN OCTOBER 15. DO NOT INSTALL PLANT

MATERIALS WHEN TEMPERATURES ARE BELOW 35 DEGREES FAHRENHEIT OR ABOVE 90 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 TIMED SO 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 BOUND 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, PROTECT 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

PROJECT CONDITIONS:

ENGINEER/LANDSCAPE ARCHITECT.

DUE TO FAILURE TO COMPLY WITH SPECIFIED REQUIREMENTS.

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 UTILITY DAMAGES ASSOCIATED WITH EXCAVATION AND PLANTING.

SEQUENCING - FINAL GRADES MUST BE ESTABLISHED BEFORE PLANTING TREES AND SHRUBS. LAWNS 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.

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, NEGLECT, 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

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 IE 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

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 GAPS OR BARE SPOTS AND 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, PUDDLING, 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 age 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

PRODUCTS: TOPSOIL:

D

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

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.

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 RAIN, WHEN GROUND IS TOO DRY, OR DURING WINDY PERIODS. ROLL SEEDED AREA WITH ROLLER NOT EXCEEDING 100 LBS. 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 1.5% PERENNIAL RYF 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.

ROJECT SERIAL NO. CALL BEFORE YOU DIG! PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL Pennsylvania One Call System, Inc.

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:

GRASS MATERIALS:

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, SUN-SCALD, 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).

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

SOD - PROVIDE VIABLE (NOT DORMANT) CERTIFIED TURF GRASS COMPLYING WITH ASPA SPECIFICATIONS FOR THICKNESS, SIZE, STRENGTH, MOISTURE CONTENT, MOWED HEIGHT, TIME TWEEN HARVEST AND TRANSPLANTING, 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-CENTER HAMMER STRIKES. THE WIRE WILL BE A GALVANIZED MILD STEEL WIRE, MINIMUM 12 GAUGE; PROVIDE DOUBLE STRANDS. HOSING WILL BE RUBBER OR PLASTIC GARDEN HOSE, AND THE TURNBUCKLES SHALL BE ALUMINUM, GALVANIZED STEEL, OR SIMILAR.

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

MIXING - MIX TOPSOIL AND AMENDMENTS THOROUGHLY TO PROVIDE UNIFORM MIXTURE, USING A DRUM-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

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, GRADES, AND ELEVATIONS 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 6 INCHES. CLEAN TOPSOIL OF STICKS, STONES, CLAY, LUMPS, VEGETABLE MATTER, AND OTHER OBJECTIONABLE OBJECTS. FINE-GRADE, ROLL, RAKE, AND DRAG LAWN AREAS CUTTING DOWN HIGH SPOTS AND FILLING LOW SPOTS, LEAVING A SMOOTH, EVEN SURFACE OF FINE-TEXTURED SOIL COMPLYING WITH REQUIRED GRADES. IF DRY, WATER FULL 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 6 INCHES, CLEAR, AND ADD SOIL AMENDMENTS NECESSARY TO ACHIEVE OPTIMUM GROWING CONDITIONS

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: ROOT BALL DIA. PLUS EIGHTEEN (18") INCHES.

ALL EXCAVATED SUBSOIL FROM THE SITE SHALL BE MIXED WITH APPROPRIATE VOLUMES OF SOIL AMENDMENTS AS RECOMMENDED BY SOILS 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 VOIDS. MAINTAIN PLUMB DURING BACKFILLING. WHEN 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 TRANSPLANTING. 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

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.

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 VOIDS. STAGGER LATERAL JOINTS. WHEN EACH SECTION IS LAID, LIGHTLY ROLL THE ENTIRE AREA TO ENSURE CONTACT BETWEEN SOD AND SUBGRADE. WATER SOD IMMFDIATFLY AFTER PLANTING TO THOROUGHLY WET THE PAD AND SUBGRADE IMMEDIATELY BENEATH. 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:

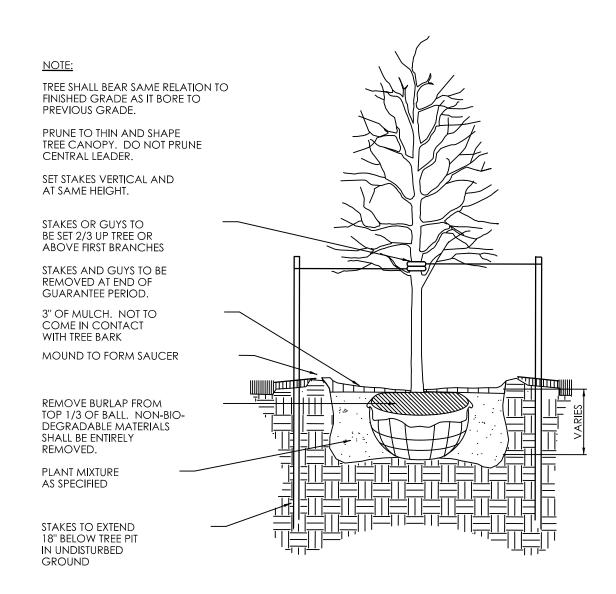
IT IS AGREED THAT THE PROFESSIONAL SERVICES OF THE DESIGN PROFESSIONAL DO NOT EXTEND TO OR INCLUDE THE REVIEW OR SITE OBSERVATION OF THE CONTRACTOR'S WORK OR REINFORCING, UNLESS OTHERWISE SPECIFIED AND AGREED. IT IS FURTHER AGREED THAT THE OWNER WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL 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

MAINTENANCE GUIDELINES-BUFFER/SCREEN LANDSCAPE

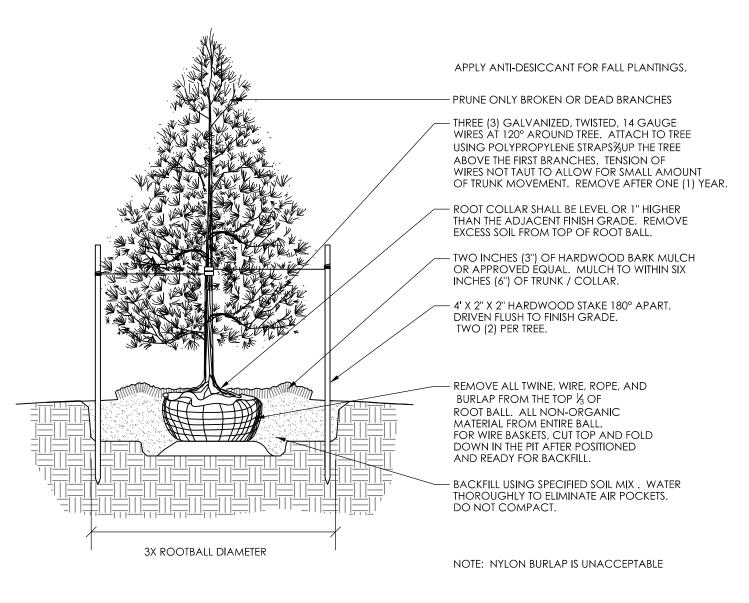
PROTECT EXISTING NATIVE TREES AND PROPOSED LANDSCAPE

MUST BE REPLACED WITHIN 6 MONTHS.

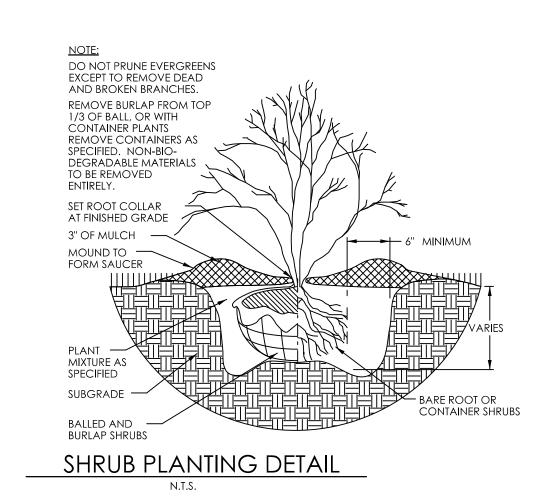
• INSPECT CONDITION OF TREES ANNUALLY AND AFTER MAJOR STORM EVENTS • PRUNE TREES FOR SAFETY PURPOSES ONLY UNLESS NEAR A BUILDING FOR THE LIFE OF THE PROJECT (50 YEARS) OR UNTIL REDEVELOPMENT OCCURS. • REPLACE ANY PROTECTED TREE THAT DIES WITHIN 5 YEARS OF CONSTRUCTION. DEAD TREES

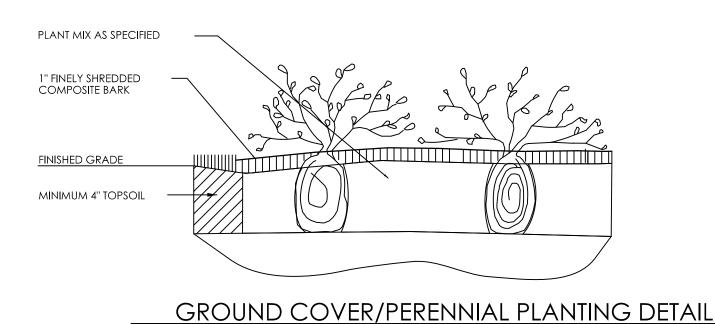


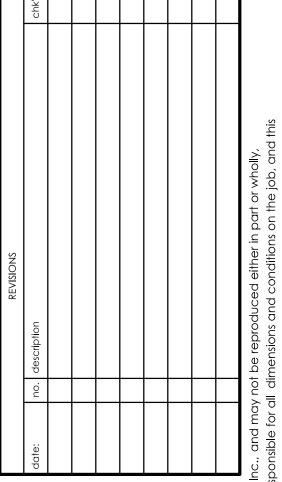
DECIDUOUS TREE PLANTINGS

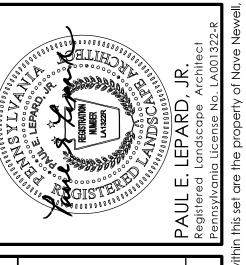


EVERGREEN PLANTING DETAIL





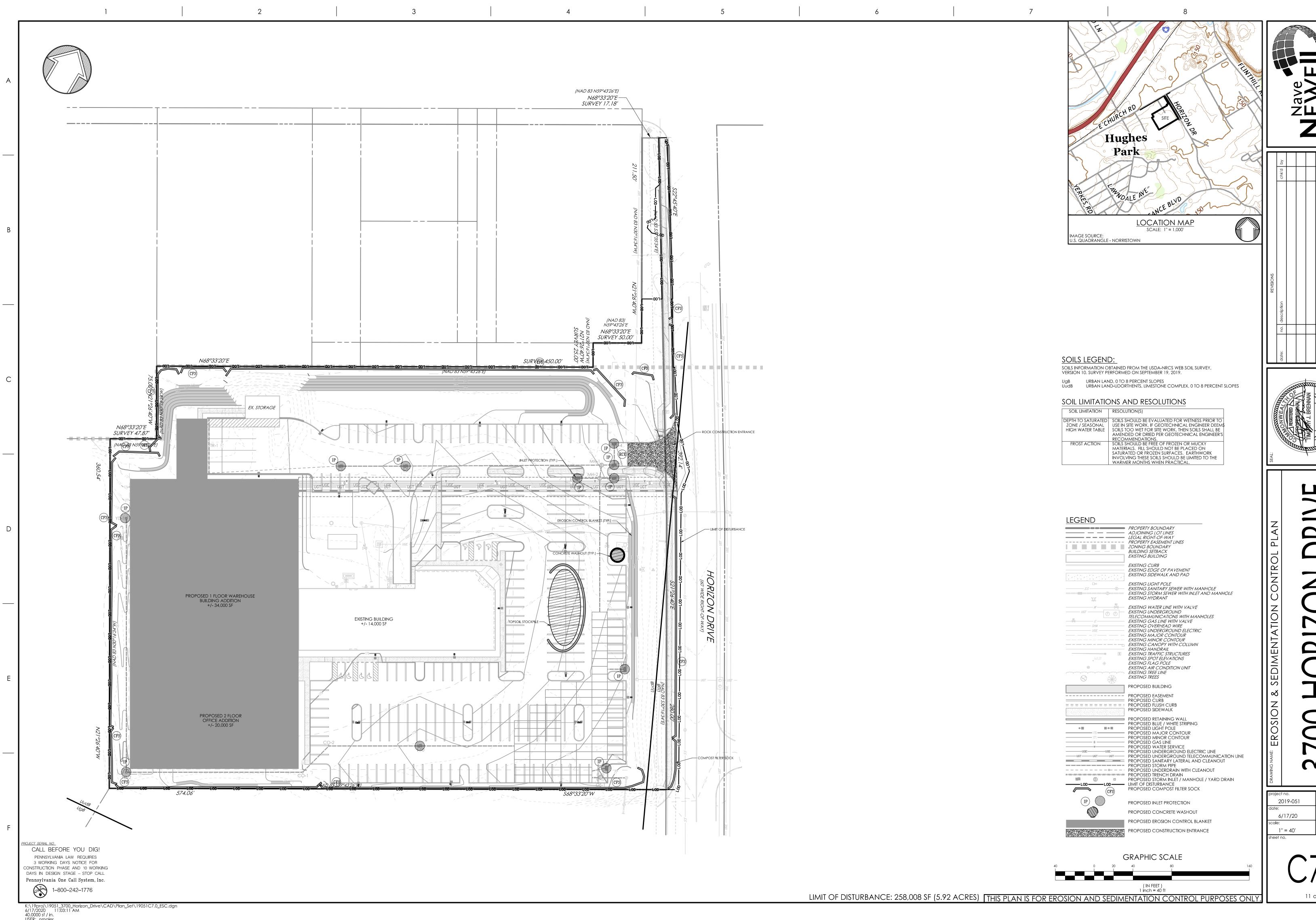




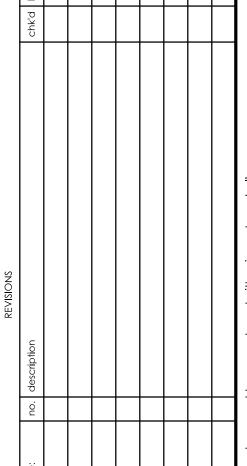
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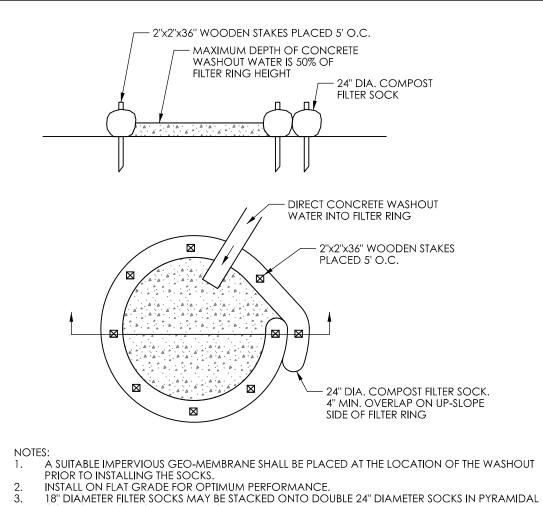
2019-051 chk'd by: 6/17/20 approv. by: N.T.S.







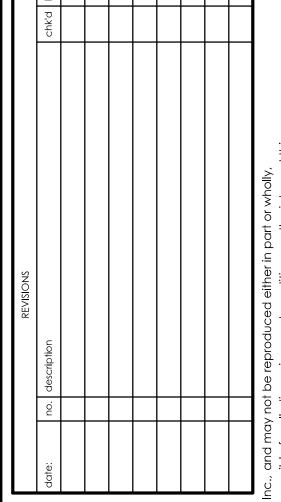
M JGE/CW chk'd by: approv. by: TJB

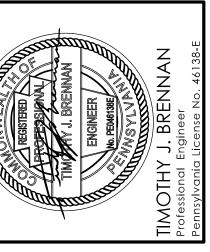


CONFIGURATION FOR ADDEDHEIGHT. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY

CONTROLLED NON-DISCHARGE **CONCRETE WASH OUT**







JGE/CW 2019-051 chk'd by: 6/17/20 approv. by:

N.T.S.

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FILTER BAG INLET PROTECTION - TYPE C INLET NOT TO SCALE

STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET

NOT TO SCALE

DISTURBANCE OF PREPARED AND PROTECTED SURFACES.

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-germination periods, mui ch must be applied at recommended rates. Crushed JONE ON PAVEMENT SUBGRADES IS CONSIDERED ADEQUATE PROTECTION. ALL DISTURBED ZONES AND vegetated regions shall be stabilized, preferably with a permanent treatment as follows:

ONSTRUCTION TRADES SHOULD BE APPRAISED OF THIS PROGRAM AND DIRECTED TO PREVENT UNDUE

SEEDING & MULCHING SPECIFICATIONS

SEEDING SHALL BE COMMON RYE GRASS APPLIED AT 45 LBS. PER ACRE. LIMING TO BE APPLIED AT 1 TON/ACRE. 50-50-50 FERTILIZER 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 ESCUE, 15% PERENNIAL RYE GRASS, AND 10% RECLEANED REDTOP AT A RATE OF 60 LBS. PER ACRE. LIMING 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 THOSE PERIODS. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDED WITH VEGETATIVE COVER AND STOCKPILES FOR RE-USE 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

ANDSCAPED AREAS LOCATED OUTSIDE OF FLOOD PLAINS, WETLANDS, STEEP SLOPES, AND DRAINAGE SWALES. AREAS OF SEDIMENT DISPOSAL SHALL BE CONSIDERED C. V.A.,

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 IHE BEGINNING OF EXCAVATION. IN GENERAL, CRITICAL VEGETATION AREAS ARE DEFINED AS CUT SLOPES STEEPER THAN 3H:1V, ALL FILL SLOPES STEEPER THAN 4H:1V AND IN ALL DRAINAGE SWALES.

GENERAL NOTES FOR UTILITY CONSTRUCTION

- EXCAVATED MATERIAL SHOULD BE STAGED ON THE UPSTREAM SIDE OF A TRENCH. THE DAILY EXTENT OF TRENCHING SHOULD NOT EXCEED WHAT CAN BE BACK FILLED AND STABILIZED IN ONE WORKING DAY.
- 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.

 WORK CREWS AND EQUIPMENT FROM TRENCHING, PLACEMENT OF PIPE, AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS
- 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. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE
- GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED 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:

- 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 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ADWAY 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.
- EROSION CONTROL BLANKET (ECB) BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VÉGETATION 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 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 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 FACH RUNOFF EVENT. DAMAGED
- SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION 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.
 ROCK FILTER OUTLET SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET. ADD ADDITIONAL ROCK AS NEEDED 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 OF
- 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 3800-FM-BCW0271D, DATED 1/2019 AND KEPT ON SITE AT ALL TIMES.

<u>VISUAL INSPECTIONS</u>

he permittee and co-permittee(s) must ensure that visual site NSPECTIONS ARE CONDUCTED DAILY, AND WITHIN 24 HOURS AFTER EACH MEASURABLE RAINFALL EVENT THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL THE RECEIPT AND ACKNOWLEDGEMENT 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 PERSONNE trained and experienced in erosion and sediment control, to ascertain THAT E&S BMPS AND PCSM BMPS ARE PROPERLY CONSTRUCTED AND MAINTAINED D EFFECTIVELY MINIMIZE POLLUTION TO THE WATERS OF THIS COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL UTILIZE PADEP FORM 3150-FM-BWEW0083

DATED FEBRUARY 2012 AND BE KEPT ON SITE AT ALL TIMES AND INCLUDE AT A 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

NON-COMPLIANCE REPORTING WHERE E&S, PCSM, OR PPC BMPS ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, OR ANY OTHER TIME, THE PERMITTEE AND CO-PERMITTEE(S) HALL, 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.

- NONCOMPLIANCE REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: ANY CONDITION ON THE PROJECT SITE WHICH MAY ENDANGER PUBLIC HEALTH, SAFETY, OR THE ENVIRONMENT, OR INVOLVE INCIDENTS WHICH CAUSE OR
- THE PERIOD OF NONCOMPLIANCE, INCLUDING EXACT DATES AND TIMES AND/OR ANTICIPATED TIME WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE; STEPS BEING TAKEN TO REDUCE, ELIMINATE, AND PREVENT RECURRENCE OF THE NONCOMPLIANCE: AND

THE DATE OR SCHEDULE OF DATES, AND IDENTIFYING REMEDIES FOR

CORRECTING NONCOMPLIANCE CONDITIONS.

POTENTIAL THERMAL IMPACTS

THERMAL IMPACTS DURING CONSTRUCTION ACTIVITIES WILL BE MINIMIZED THROUGH AVOIDING DIRECT DISCHARGE INTO SURFACE WATERS, LIMITING THE EXTENT AND DURATION OF EARTH DISTURBANCE AND THE USE DF 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 CANOPY OF EXISTING VEGETATION (LAWN, TREES, ETC.), THE DISCHARGE WILL BE AFFORDED TIME TO COOL PRIOR TO REACHING THE RECEIVING WATERWAYS.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

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 . TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND

- GRUBBING THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS. THE LANDOWNER APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRF-CONSTRUCTION MFFTING AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA
- PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES 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. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH
- TAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS 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 ENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) HOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF AL 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 2H:1V OR FLATTER. 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. 0. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE
- 260.1 ET SEQ., 271.1, AND 287.1 ET. SEG. 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 RORROW AREAS MUST HAVE AN ERS PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL 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-NETTING 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 THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION. 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 CCCD OR THE MUNICIPALITY,
- AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROAD SIDE DITCH, STORM SEWER, OR SURFACE WATER. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN 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. 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. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR
- OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY 22. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED 23. FILL 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. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. UT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. ALL SLOPES 3H: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 THIS PLAN. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR
- PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADI WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORAR STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE TABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS. 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 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
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF AL 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.
- 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. 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 O SCHEDULE A FINAL INSPECTION. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- 33. 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. 34. 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.

 35. 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. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED O THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING. 37. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS HAVING POTENTIAL TO CLOG THE BASIN/TRAP OUTLET STRUCTURES AND/OR POLLUTE THE
- 38. SEDIMENT BASINS SHALL BE PROTECTED FROM UNAUTHORIZED ACTS BY THIRD PARTIES. 39. 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
- 40. 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 41. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL
- 42. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.

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 DISPOSED OF PER THE SOIL

TRASH & LITTER TRASH AND LITTERSHALL BE REMOVED FROM EROSION AND SEDIMENTATION CONTROL BMPS AND DISPOSED OF IN APPROPRIATE TRASH RECEPTACLE. CONCRETE WASHWATER SHALL BE DISPOSED OF IN THE LOCATION SHOWN ON-SITE. CONCRETE WASHWATER

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

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

SEQUENCE OF CONSTRUCTION:

- AT LEAST 7 DAYS BEFORE ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN HOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITÉ PRE-CONSTRUCTION MEETING. ALSO, AT LEAST 3 days prior to starting any earth disturbance activities. Or expanding into an area previously unmarked, t ENNSYLVANIA ONE CALL SYSTEM SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND JTILITIES. 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.
- 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
- LIMITS OF DISTURBANCE AND LOCATIONS OF PROPOSED ON-SITE BMPS MUST BE DELINEATED WITH ORANGE CONSTRUCTION ENCE, OR APPROVED FOUAL, PRIOR TO FARTH MOVING ACTIVITIE
- PLACE COMPOST FILTER SOCKS AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- PLACE PERIMETER EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN THAT INCLUDES TEMPORARY INLET PROTECTION, COMPOST FILTER SOCK, CONCRETE WASHOUT, AND LOCATIONS FOR TEMPORARY topsoil stockpile areas. stabilize any resultant disturbance immediately, as appropriate
- 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 CLEAR AND GRUB TREES AND VEGETATION AS NEEDED THROUGHOUT THE DISTURBANCE AREA. REMOVE AND DISPOSE OF AND/OR RECYCLE EXISTING ASPHALT, CONCRETE, GRAVEL, AND CURB.

 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. INSTALL THE UNDERGROUND DETENTION BASIN. nstall storm structures and drains with water quality inserts (note that inlet protection shall be provided until ONTRIBUTING DRAINAGE AREAS ARE STABILIZED! EXCAVATE AND CONSTRUCT THE BUILDING FOUNDATION. NOTE THAT THIS CAN OCCUR ONCE SERVICE DRIVE IS CONSTRUCTED.
- INSTALL WATER AND SANITARY TO THE BUILDING NSTALL GAS, ELECTRIC, AND TELECOMMUNICATIONS SERVICES. INSTALL SUBBASE FOR PAVEMENT, SIDEWALKS, CONCRETE CURBING, AND 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.
- UPON STABILIZATION OF SITE, VACUUM STORM DRAIN NETWORK.
 AFTER AN ON-SITE INSPECTION AND APPROVAL BY A REPRESENTATIVE OF THE LOCAL COUNTY CONSERVATION DISTRICT, REMOVE LL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT YET AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH
- A FINAL INSPECTION SHALL BE CONDUCTED BY THE MONTGOMERY COUNTY CONSERVATION DISTRICT TO ENSURE ALL INSTALLED CSM 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.

WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION

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

NSTALL LANDSCAPING AND PERFORM FINAL STABILIZATION OF DISTURBED AREAS

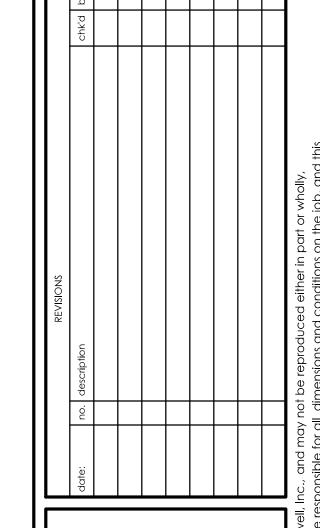
- BMP 6.6.4 WATER QUALITY STRUCTURE CONSTRUCTION SEQUENCE (CRITICAL STAGE) STABILIZE ALL CONTRIBUTING AREAS BEFORE INSTALLING WATER QUALITY INSERTS
- *INSTALL INSERTS ON THE STORMWATER STRUCTURES AS NOTED ON PCSM PLANS FOLLOW THE MANUFACTURER'S GUIDELINES FOR INSTALLATION.

BMP 6.4.3 & BMP 6.4.11 -SUBSURFACE DETENTION SYSTEM - MANAGED RELEASE CONCEPT - (DET-1)

- 1. THIS IS A CRITICAL STAGE OF CONSTRUCTION THAT MUST BE SUPERVISED BY A LICENSED PROFESSIONAL
- PRIOR TO START OF CONSTRUCTION, ENSURE THE EXCAVATION IS COMPLETELY DEWATERED. EXCAVATE TO SUBGRADE SURFACE. PREPARE SUBGRADE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION.
- Place and compact fill material per recommendations of the project geotechnical specialist. *PLACE IMPERMEABLE LINER ON SURFACE OF COMPACTED FIL
- *PLACE PRECAST STORM CAPTURE MODULE UNITS. SYSTEM IS TO BE WATERTIGHT AND ENCLOSED ON BOTH THE TOP AND BOTTOM
- *COMPLETELY WRAP SYSTEM WITH IMPERMEABLE LINER TO ENSURE ALL JOINTS ARE WATERTIGHT. BACKFILL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACTOR SHALL ENSURE THAT NO FOREIGN MATERIAL OR SEDIMENT ENTERS THE INTERIOR OF THE CISTERN AT ANY TIME. ENSURE ALL STORM DRAINS TRIBUTARY TO SYSTEM ARE COMPLETELY FREE OF DEBRIS AND SEDIMENT. ALL STORM INLETS TRIBUTARY O SYSTEM ARE TO REMAIN SEALED DURING CONSTRUCTION TO ENSURE NO SEDIMENT LADEN WATER OR FOREIGN
- 8. UPON COMPLETE STABILIZATION OF UPSTREAM DRAINAGE AREA, INSPECT TO ENSURE PRE-TREATMENT DEVICES. nlets, 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.





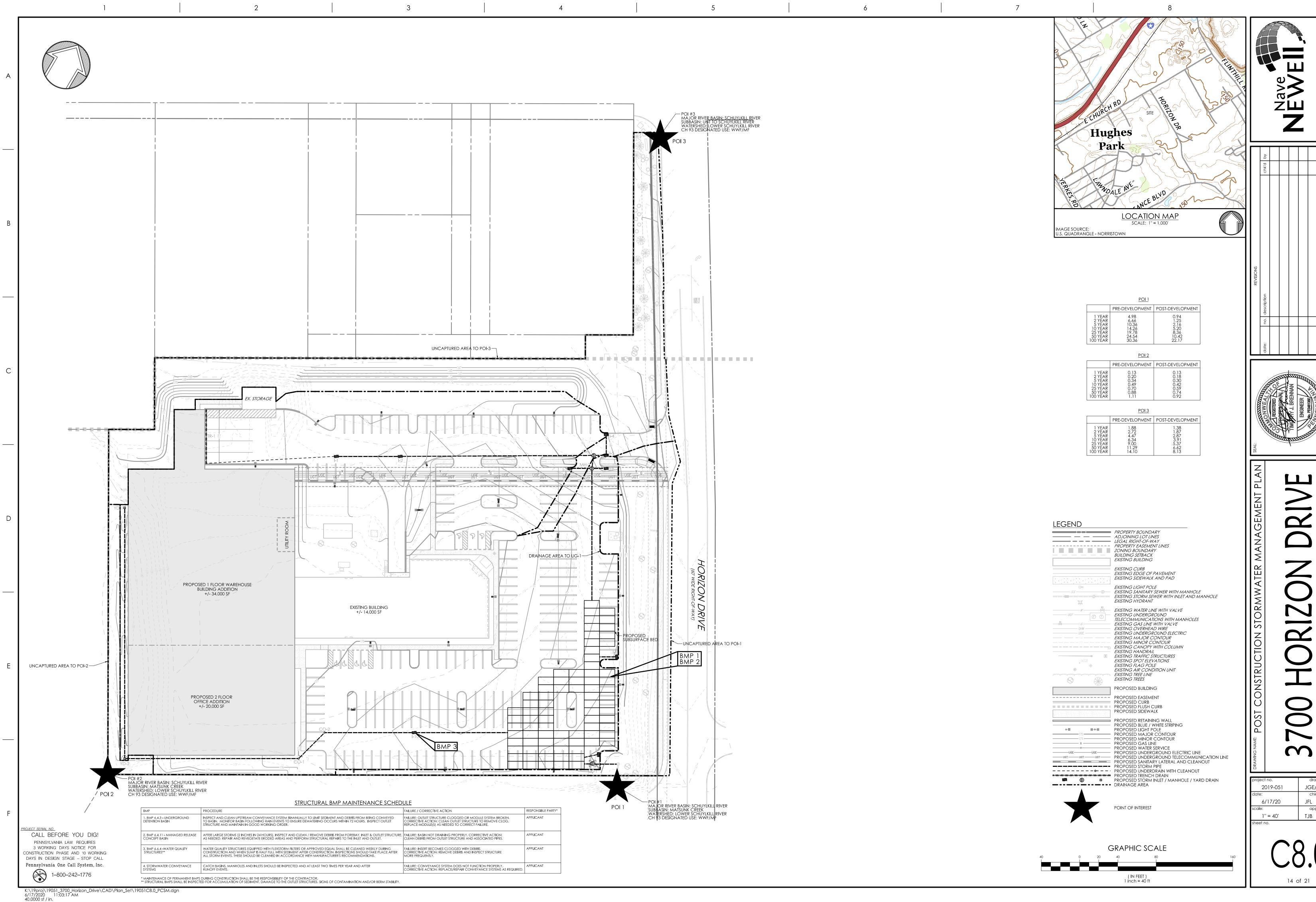


JGE/CW chk'd by:

approv. by:

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PRESERVATION OF EXISTING STREAM CHANNELS, AS WELL AS THE PROTECTION OF THE PHYSICAL, BIOLOGICAL, AND CHEMICAL QUALITIES OF THE RECEIVING STREAM, WILL BE ACHIEVED THROUGH THE IMPLEMENTATION OF APPROVED STORMWATER BMPS THAT WILL REDUCE THE RATE AND RUNOFF VOLUME IN THE POST-DEVELOPMENT CONDITION. WATER QUALITY BMPS ARE ALSO PROPOSED TO MITIGATE POLLUTION IMPACTS.
 POST-CONSTRUCTION RUNOFF RATES WILL BE REDUCED TO LESS THAN PRE-CONSTRUCTION RUNOFF RATES FOR THE OVERALL SITE THROUGH THE USE OF UNDERGROUND DETENTION BASIN.

THE OVERALL SITE THROUGH THE USE OF UNDERGROUND DETENTION BASIN.

THE POST-DEVELOPMENT RUNOFF VOLUME WILL BE REDUCED TO LESS THAN THE PRE-DEVELOPMENT RUNOFF VOLUME THROUGH THE USE UNDERGROUND DETENTION BASIN.

PRE-DEVELOPMENT DRAINAGE PATTERNS WERE MAINTAINED IN THE POST-DEVELOPMENT CONDITION, TO THE

EXTENT PRACTICAL. POI 1 AND 2 DRAINS TO MATSUNK CREEK. POI 3 DRAINS TO UNT TO SCHUYKILL RIVER. CHAPTER 93 CLASSIFICATION OF WWF, MF- WARM WATER FISHES, MIGRATORY FISHES.

5. THE INTRODUCTION OF ADDITIONAL IMPERVIOUS SURFACES WAS MINIMIZED TO THE EXTENT PRACTICAL.

6. THE LIMIT OF EARTH DISTURBANCE (INCLUDING GRADING AND LAND CLEARING) IS MINIMIZED AND THE PRESERVATION OF EXISTING VEGETATION IS MAXIMIZED TO THE EXTENT PRACTICAL.

7. NO ADDITIONAL DISCHARGES TO THE WATERCOURSES ARE PROPOSED AS PART OF THIS PROJECT. THE BMPS PROPOSED TO POIL WILL DISCHARGE TO THE WATERCOURSES VIA EXISTING DRAINAGE FACILITIES. THE BMPS PROPOSED TO POIL WILL DISCHARGE TO THE WATERCOURSES THE PARTS PROPOSED TO POIL WILL DISCHARGE TO THE WATERCOURSES THE PAR

PROPOSED TO POI 2 WILL DISCHARGE TO THE WATERCOURSES. THE BMPS PROPOSED TO POI 3 WILL DISCHARGE TO THE WATERCOURSES.

8. SOIL COMPACTION SHALL BE MINIMIZED TO THE EXTENT PRACTICAL, PARTICULARLY IN THE AREAS TO BE PERVIOUS IN THE POST-DEVELOPMENT CONDITION.

9. CHANGES TO THE SITE'S RUNOFF WILL BE MINIMIZED THROUGH THE USE OF AN UNDERGROUND DETENTION

BASIN.

10. THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. A LICENSED PROFESSIONAL ENGINEER KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT THE OVERSIGHT.

11. AS-BUILT PLANS OF THE STORMWATER BMPS SHALL BE PROVIDED WITHIN SIX MONTHS FOLLOWING THE

COMPLETION OF THE BMP CONSTRUCTION. THE AS-BUILT PLANS SHALL BE SIGNED AND SEALED BY A PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER.

12. A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS-BUILT PLANS. PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION TO ENSURE SITE STABILIZATION AND VERIFY ADEQUATE INSTALLATION

AND FUNCTION OF THE STORMWATER BMPS.

13. NO UNTREATED RUNOFF SHALL ENTER ANY BMPS UNTIL FINAL SITE STABILIZATION IS ACHIEVED IN THE TRIBUTARY DRAINAGE AREA. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

14. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN

ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 AND 287.1 ET. SEG. NO BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

15. THE PROJECT AREA IS NOT LOCATED IN AN HQ - HIGH QUALITY OR EV - EXCEPTIONAL VALUE WATERSHED.

16. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES MUST BE PROVIDED AS PART OF THE LONG-TERM OPERATION AND MAINTENANCE PROGRAM.

17. THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE KEPT ON SITE AND AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT AND CONSERVATION DISTRICT.

18. THE POTENTIAL FOR THERMAL IMPACTS IS MINIMIZED THROUGH THE USE OF AN UNDERGRAOUND DETENTION BASIN.

THE MUNICIPALITY SHALL HAVE THE RIGHT TO ENTER PRIVATE PROPERTY TO INSPECT AND REPAIR, IF NECESSARY, ANY STORMWATER MANAGEMENT FACILITY.
 THE STORMWATER MANAGEMENT FACILITIES ARE A PERMANENT PART OF THE DEVELOPMENT AND SHALL NOT BE REMOVED, ALTERED, OR MODIFIED.
 THE MUNICIPALITY SHALL INSPECT ALL PHASES OF THE INSTALLATION OF THE UNDERGROUND DETENTION

BASIN AND WATER QUALITY INSERTS.

22. DURING ANY STAGE OF WORK, IF THE MUNICIPALITY DETERMINES THAT THE BMPS AND/OR STORMWATER MANAGEMENT FACILITIES ARE NOT BEING INSTALLED IN ACCORDANCE WITH THE APPROVED SWM SITE PLAN, THE MUNICIPALITY SHALL REVOKE ANY EXISTING PERMITS OR OTHER APPROVALS AND ISSUE A CEASE AND DESIST ORDER UNTIL A REVISED SWM SITE PLAN IS SUBMITTED AND APPROVED, AS SPECIFIED IN THIS ORDINANCE AND

UNTIL THE DEFICIENCIES ARE CORRECTED.

23. A FINAL INSPECTION OF ALL BMPs AND/OR STORMWATER MANAGEMENT FACILITIES MAY BE CONDUCTED BY THE MUNICIPALITY TO CONFIRM COMPLIANCE WITH THE APPROVED SWM SITE PLAN PRIOR TO THE ISSUANCE OF ANY

OCCUPANCY PERMIT.

24. THE APPLICANT AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS OF ALL SWM
BMPs INCLUDED IN THE APPROVED SWM SITE PLAN. THE AS-BUILT PLANS AND AN EXPLANATION OF ANY
DESCREPANCIES, WHICH WERE REVIEWED AND RECEIVED APPROVAL BY THE MUNICIPALITY, SHALL BE SUBMITTED TO

THE MUNICIPALITY.

25. THE AS-BUILT SUBMISSION SHALL INCLUDE A CERTIFICATION OF COMPLETION SIGNED BY A QUALIFIED PROFESSIONAL VERIFYING THAT ALL SWM BMPs HAVE BEEN CONSTRUCTED ACCORDING TO THE APPROVED PLANS AND SPECIFICATIONS. IF ANY QUALIFIED PROFESSIONALS CONTRIBUTED TO THE CONSTRUCTION PLANS, THEY MUST SIGN AND SEAL THE COMPLETION CERTIFICATE.

PCSM ENGINEERING OVERSIGHT

PCSM NOTICE OF TERMINATION

С

D

THE PERMITTEE SHALL PROVIDE ENGINEERING CONSTRUCTION OVERSIGHT FOR THE PROPOSED STORMWATER BMPS. ADDITIONAL SOIL TESTING MAY BE REQUIRED PRIOR TO THE INSTALLATION OF INFILTRATION BMPS TO ENSURE PROPER LOCATION AND FUNCTION. A LICENSED PROFESSIONAL KNOWLEDGEABLE IN THE DESIGN AND CONSTRUCTION OF STORMWATER BMPS, PREFERABLY THE DESIGN ENGINEER, SHALL CONDUCT THE OVERSIGHT.

THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH

"I (NAME) DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA. C.S.A. CHAPTER 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN,

ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."

(1) THE PERMITTEE SHALL RETAIN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.
(2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP'S.

UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER CHAPTER 102.22(a) (2) (RELATING TO PERMANENT STABILIZATION), AND INSTALLATION OF BMPS IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH CHAPTERS 102.4 AND 102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS; AND PCSM REQUIREMENTS), THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:
(1) THE FACILITY NAME, ADDRESS AND LOCATION.
(2) THE OPERATOR NAME AND ADDRESS.

PCSM REPORTING AND RECORD KEEPING

BMPS. CAIRN UNIVERSITY IS THE PERMITTEE.

(3) THE PERMIT NUMBER.
(4) THE REASON FOR PERMIT TERMINATION.
(5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP'S IN ACCORDANCE WITH CHAPTER 102.8(m) AND PROOF OF COMPLIANCE WITH CHAPTER 102.8(m) (2).

PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION.

A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES MUST BE PROVIDED AS PART OF THE LONG-TERM

OPERATION AND MAINTENANCE PROGRAM.

THE PCSM PLAN, INSPECTION REPORTS AND MONITORING RECORDS SHALL BE AVAILABLE FOR REVIEW AND INSPECTION BY THE DEPARTMENT OR THE CONSERVATION DISTRICT.

PCSM LONG TERM OPERATIONS AND MAINTENANCE REQUIREMENTS

MANAGEMENT FACILTIES PROPOSED ON THIS PLAN THAT ARE ON THEIR PROPERTY.

UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPS ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON

CAIRN UNIVERSITY IS THE PERMITTEE AND IS RESPONSIBLE FOR MAINTENANCE OF ALL STORMWATER

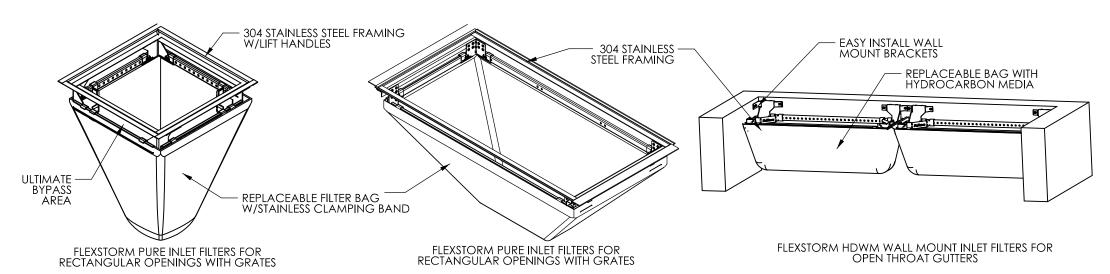
THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPS UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM

FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE PROPERTY.

THE RECORDED INSTRUMENT MUST IDENTIFY THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPS AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEES, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER CHAPTER 102.7(b) (5) (RELATING

THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION, OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPS OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPS LOCATED ON THE PROPERTY.



Product selection for FLEXSTORM PURE Filters (Permanent Inlet Protection)											
B	Inlet Type	Grate Size	Opening Size	Bag Cap (ft³)	Flow Ratings (CFS)						
Descrip					FX/FX+	PC/PC+	Bypass	FX	FX+	PC	PC+
2' x 2' Frame and Grate	Square/Rect (SQ)	24 x 24	22 x 22	3.3	1.8	1.6	4.8	62MHD22FX	62MHD22FXP	62MHD22PC	62MHD22PCP
2' x 4' Penndot Type M & C	Square/Rect (SQ)	26.5 x 48	24 x 44.5	6.3	3.1	2.2	9.5	62PENNMHDFX	62PENNMHDFXP	62PENNMHDPC	62PENNMHDPCP
2' x 6' Frame and Grate	Concrete Box (HD4)	26.5 x 75	24 x 72	10.0	4.8	4.1	13.0	62PENNHD2x6FX	62PENNHD2x6FXP	62PENNHD2x6PC	62PENNHF2x6PCP
3 x 3 Frame and Grate	Square/Rect (SQ)	37.5 x 37.5	36 x 36	7.2	4.4	3.2	9.6	62HDXLFX	62HDXLFXP	62HDXLPC	62HDXLPCP
48" Open Throat Curb Inlet	Wall Mount (WM)	N/A	48	3.3	2.5	4.2	N/A*	62HDWM48FX	62HDWM48FXP	62HDWM48PC	62HDWM48PCP

*FLOW RATINGS SHOWN ARE 50% MAXIMIUM

1 ALL EDAMANG IS CONSTRUCTED OF 204 S

 ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL FOR 25 YEAR SERVICE LIFE RATING
 TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED

DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE.

3. UPON ORDERING ADS P/N CONFIRMATION OF THE DOT CALLOUT,

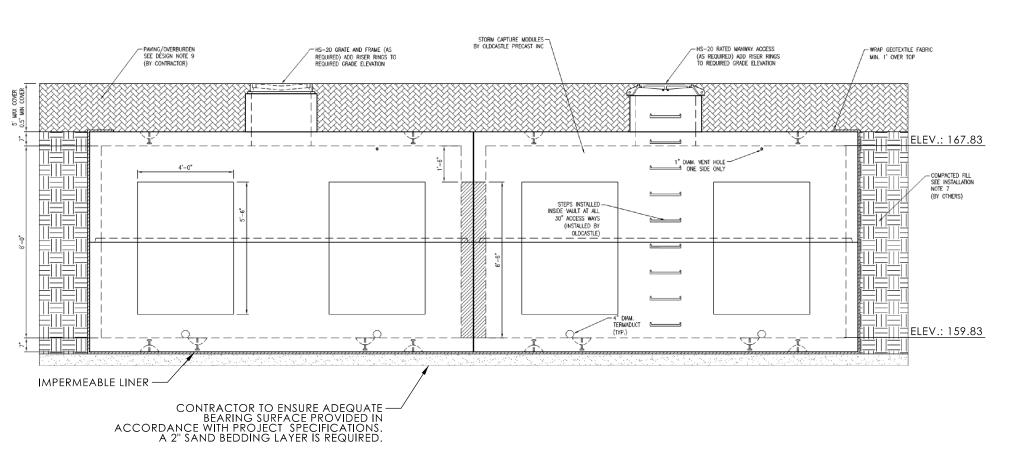
DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.

4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR

2.5	4.2	N/A*	62HDWM48FX	62HDWM48FXP					
				^					
<u> NSTALLA</u>	ATION:								
. REMO	OVE GRATE								
LOAE	. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE								
8. REPL/	ACE GRATE								

FLEXSTORM PURE FILTERS FOR PERMANENT INLET PROTECTION DETAIL



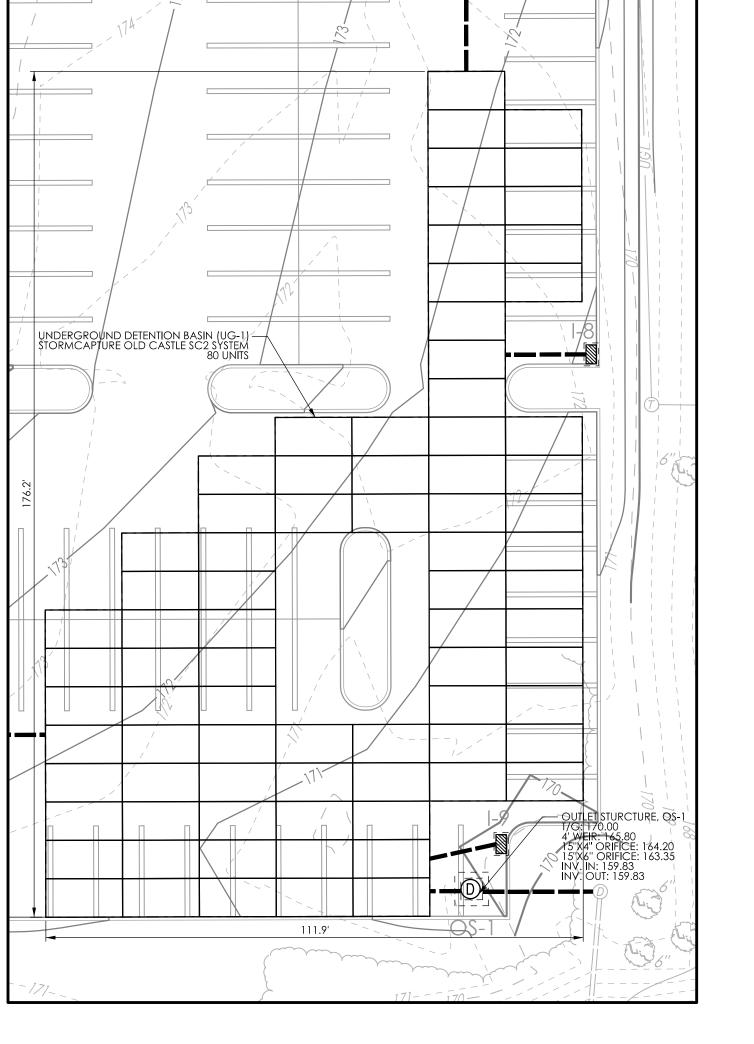
TYPICAL SECTION: STORMCAPTURE SC2 MODULE

N.T.S.

TEC.

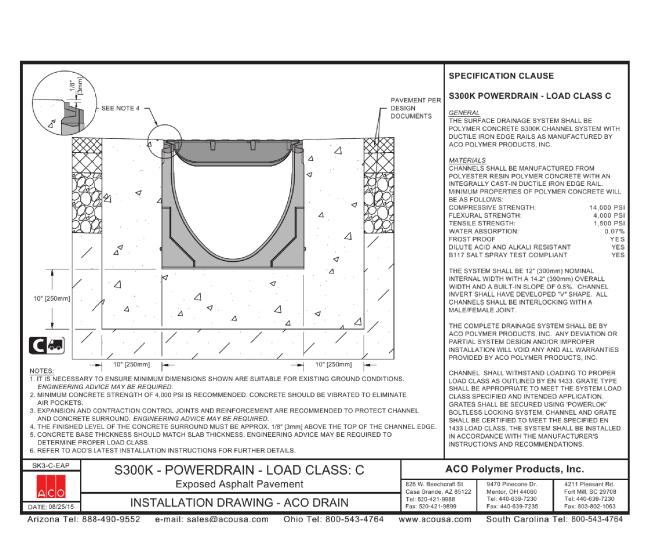
NOTES:

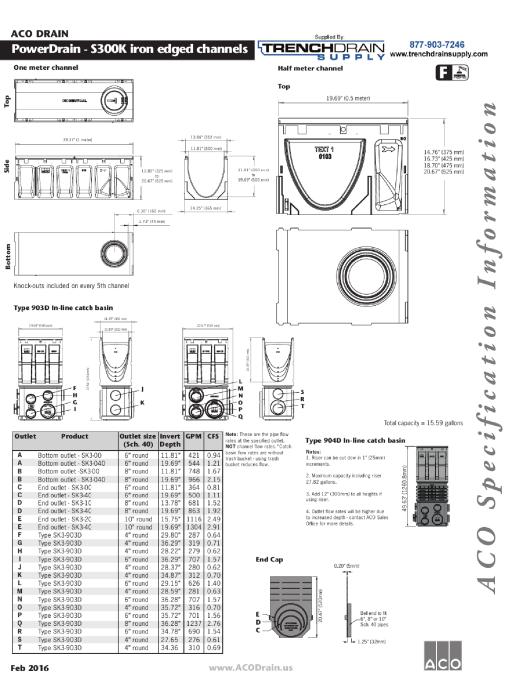
1. REFER TO MANUFACTURER'S DETAIL FOR INSTALLATION AND NOTES.



UNDERGROUND DETENTION BASIN (UG-1)

SCALE: 1" = 20'





TRENCH DRAIN DETAIL

3700 HORIZON DRIVE

arawn by:

2019-051
JGE/CW
te:
chk'd by:

6/17/20
JFL
approv. by:
TJB
eet no.

C8.1

PROJECT SERIAL NO.

CALL BEFORE YOU DIG!

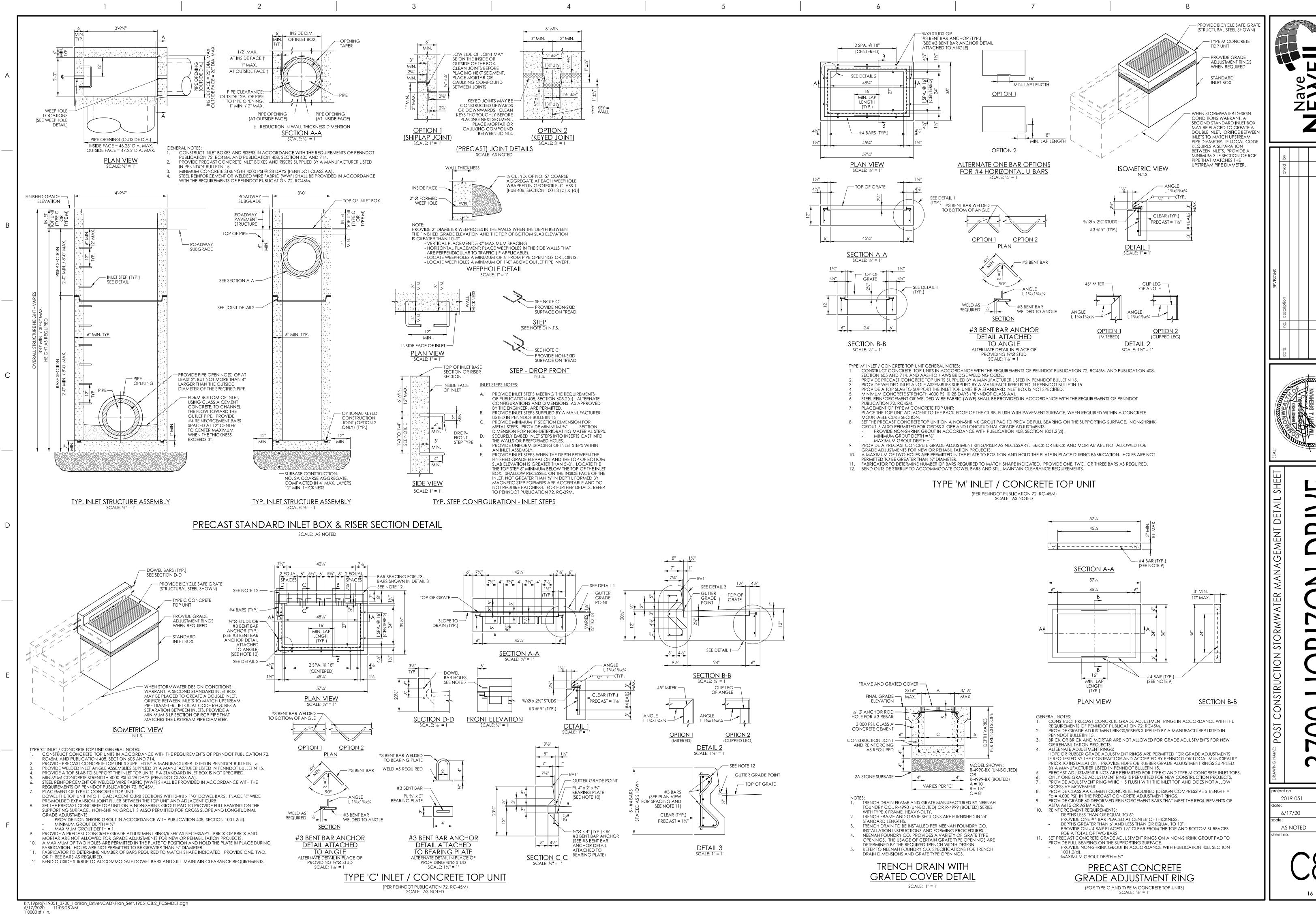
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR

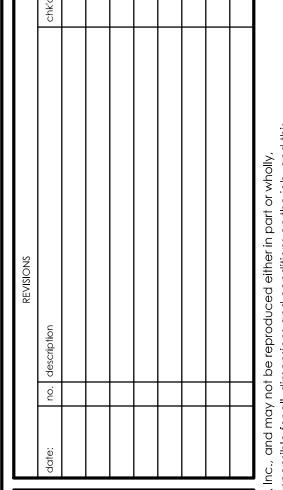
CONSTRUCTION PHASE AND 10 WORKING

DAYS IN DESIGN STAGE - STOP CALL

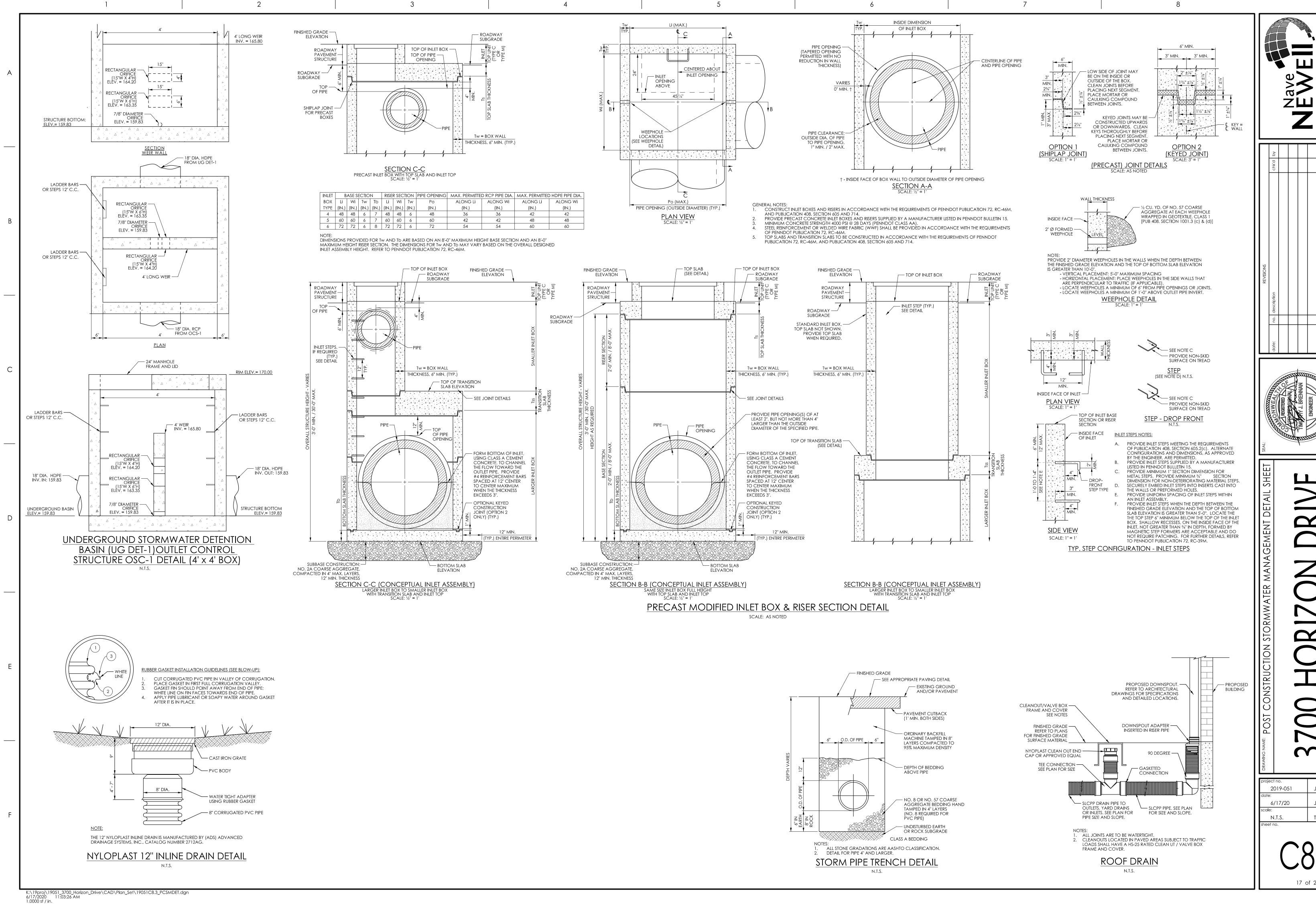
Pennsylvania One Call System, Inc.

1-800-242-1776

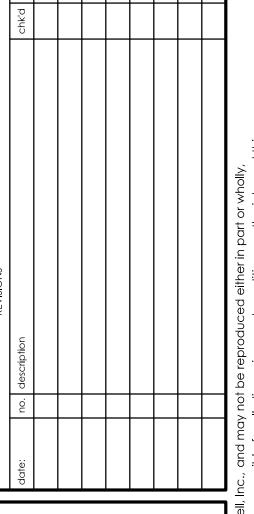


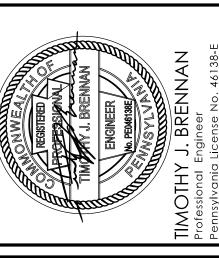


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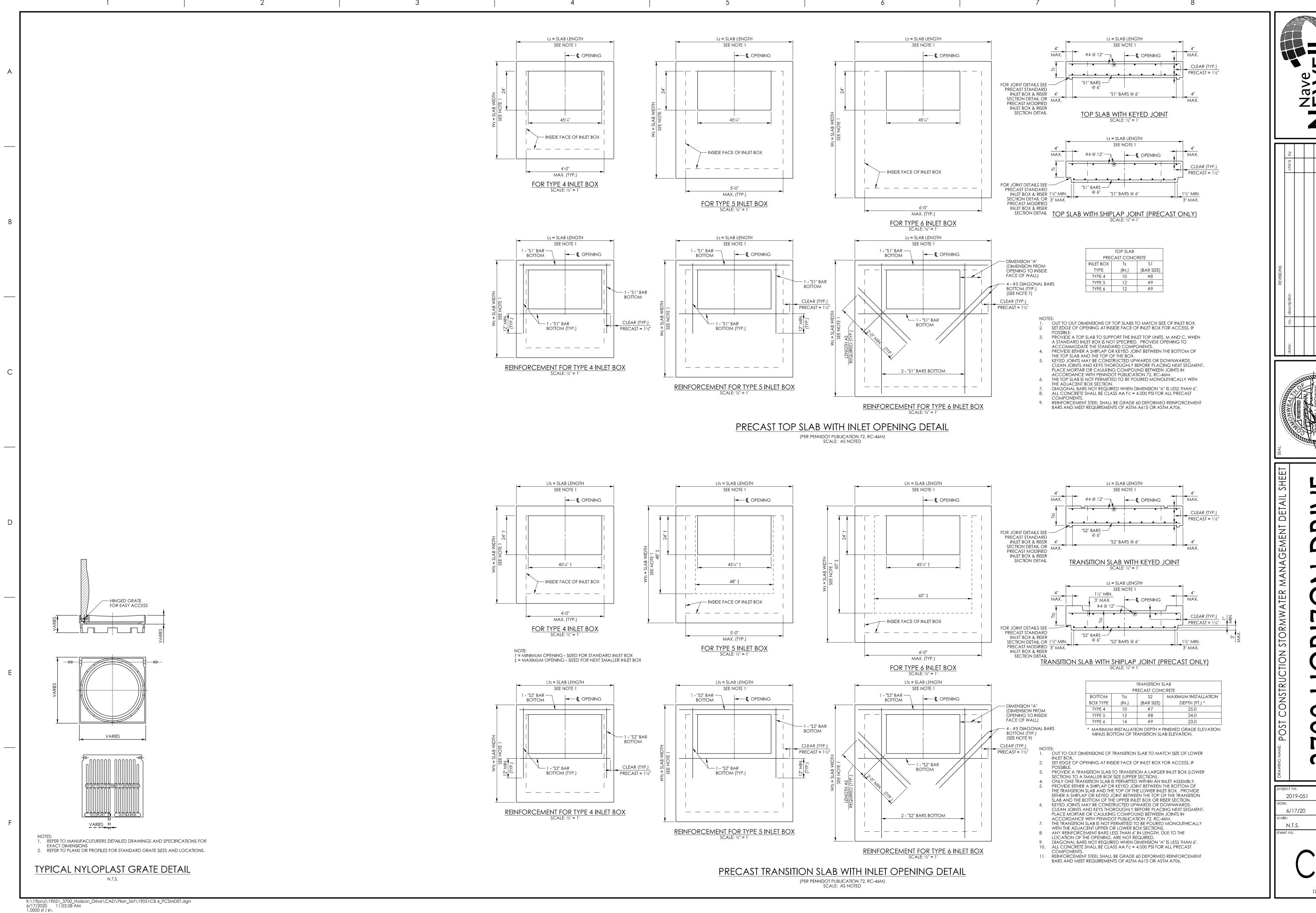


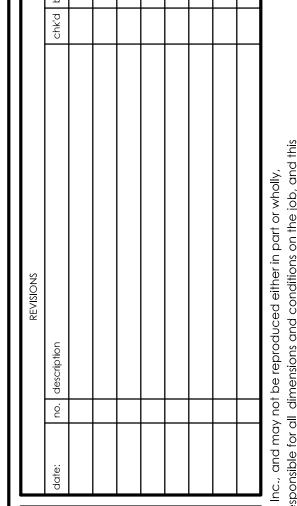




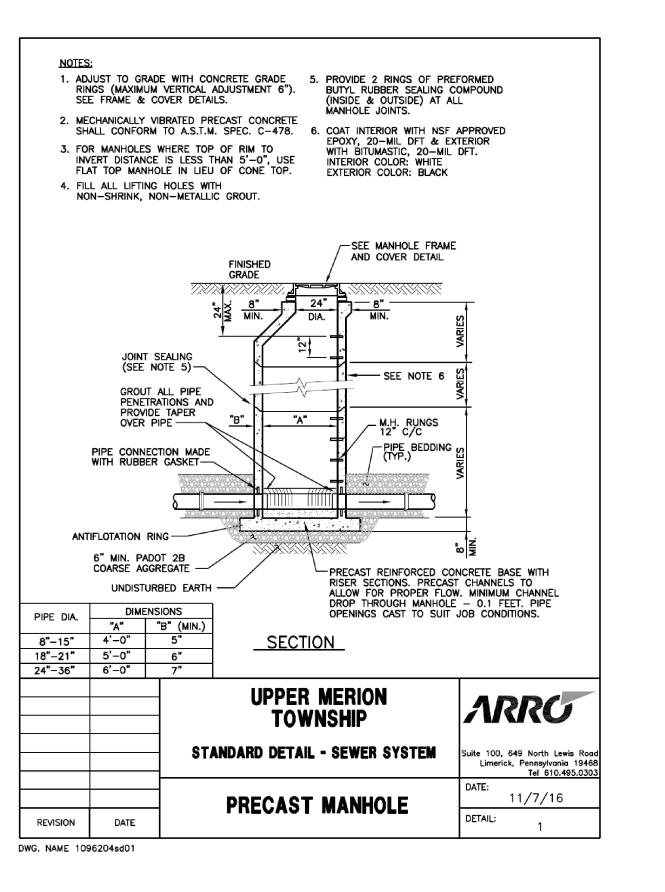
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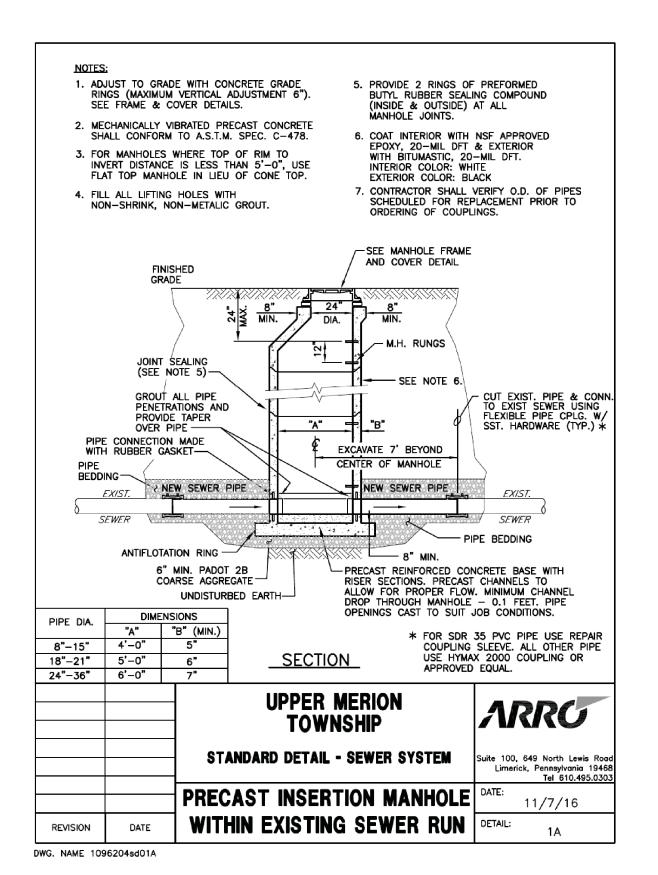
approv. by: TJB

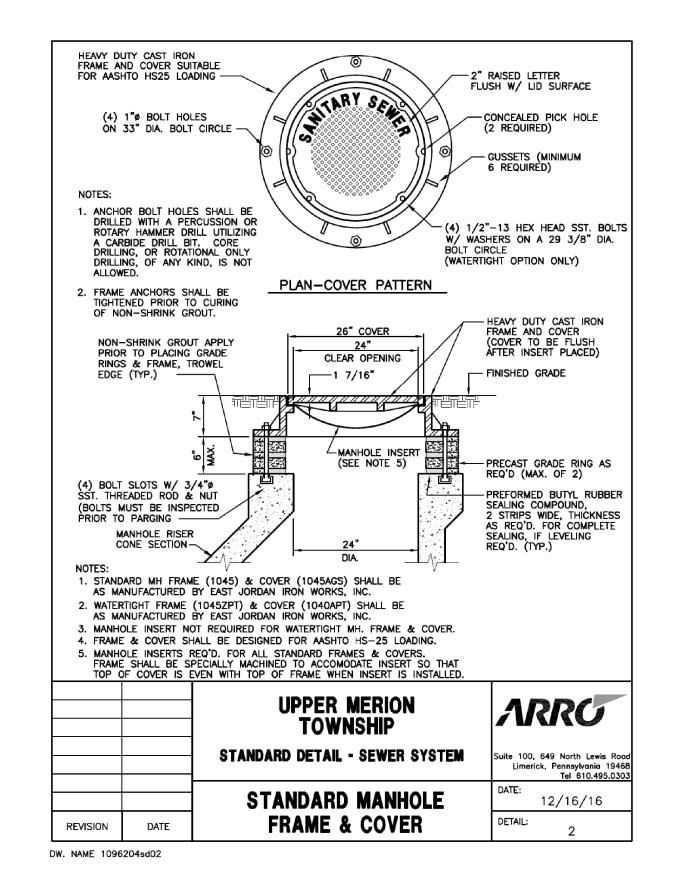


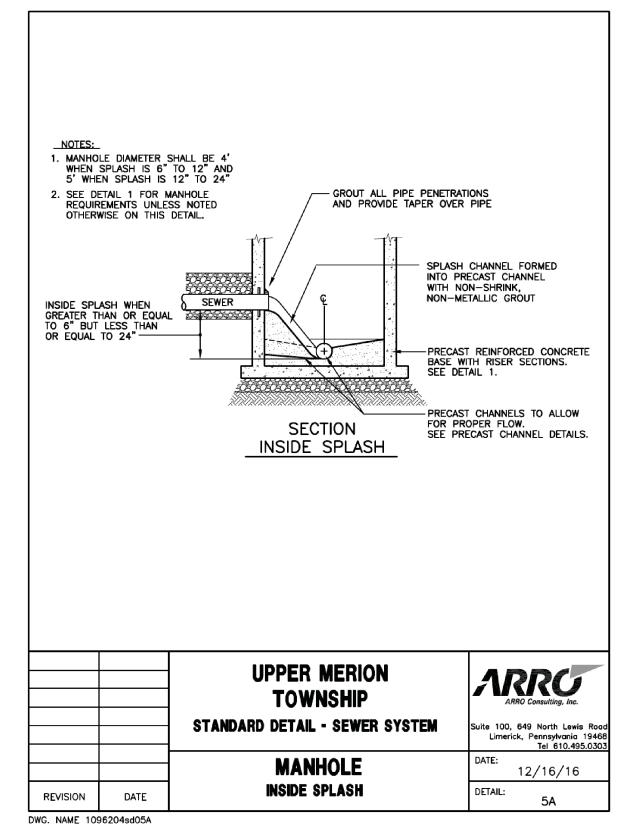


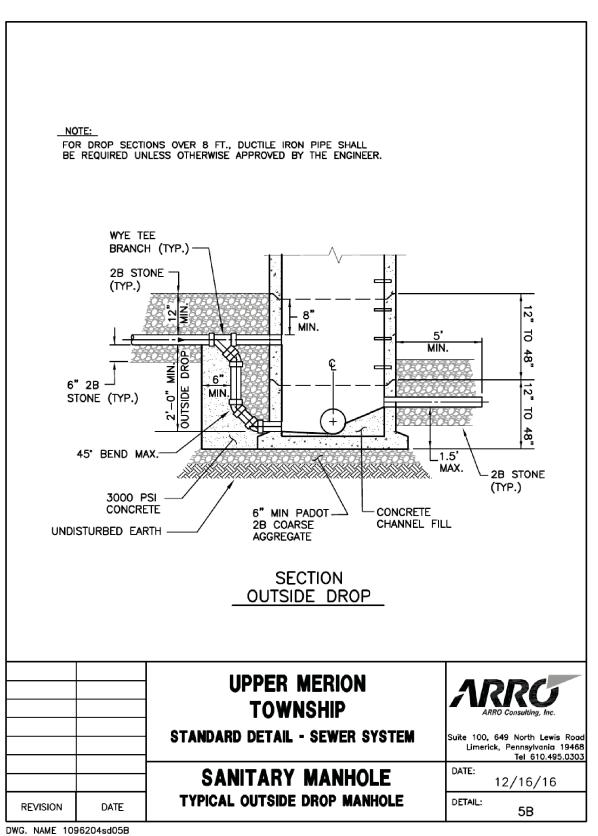
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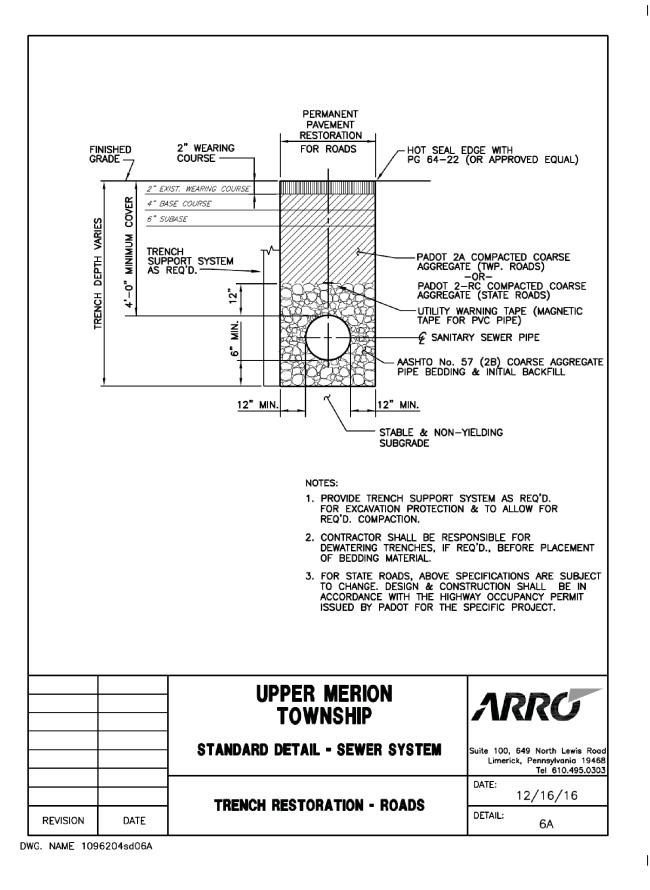


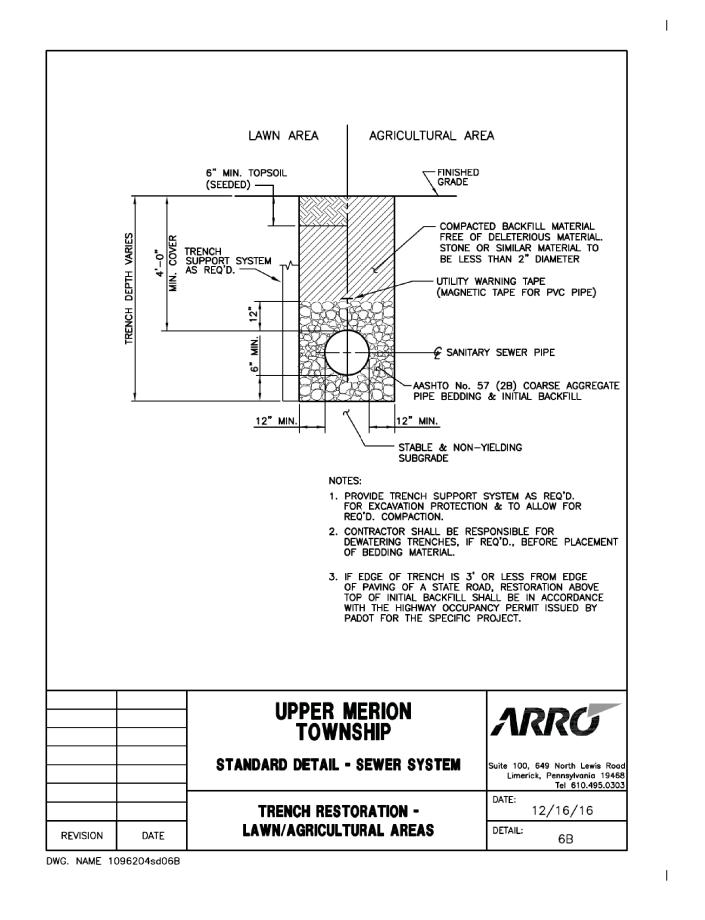


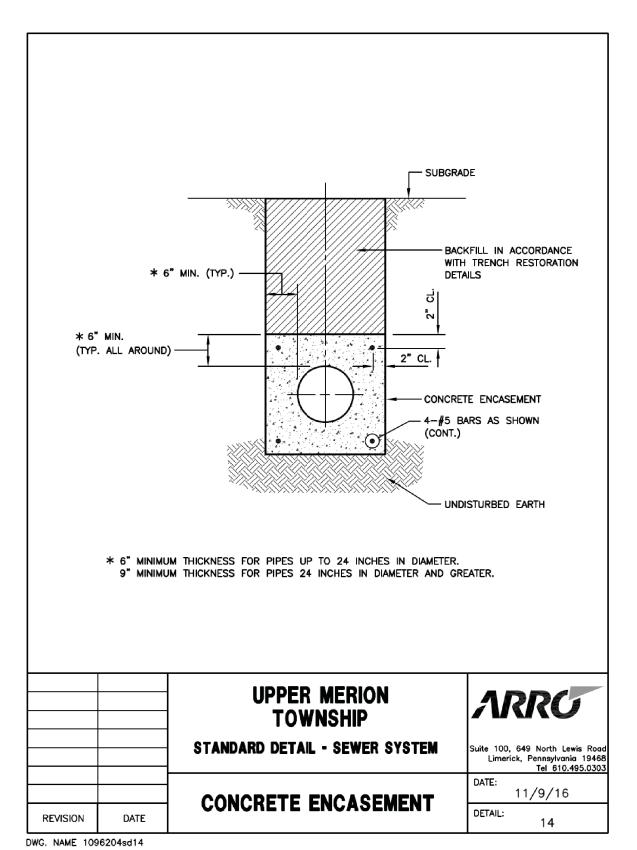


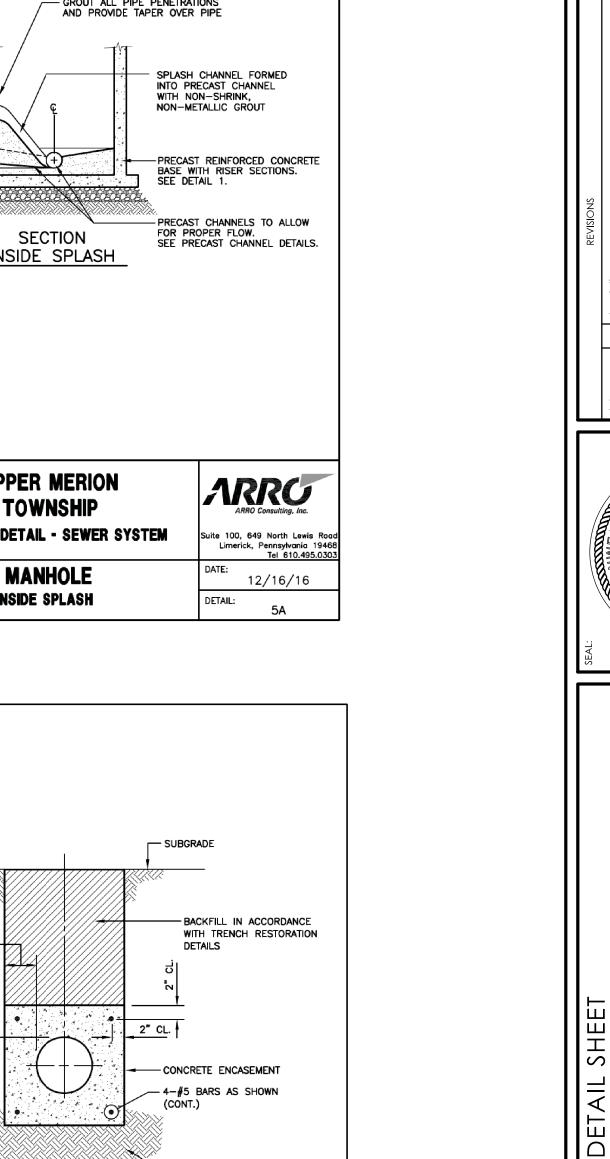












project no.

2019-051

date:

6/17/20

scale:

N.T.S.

TJB

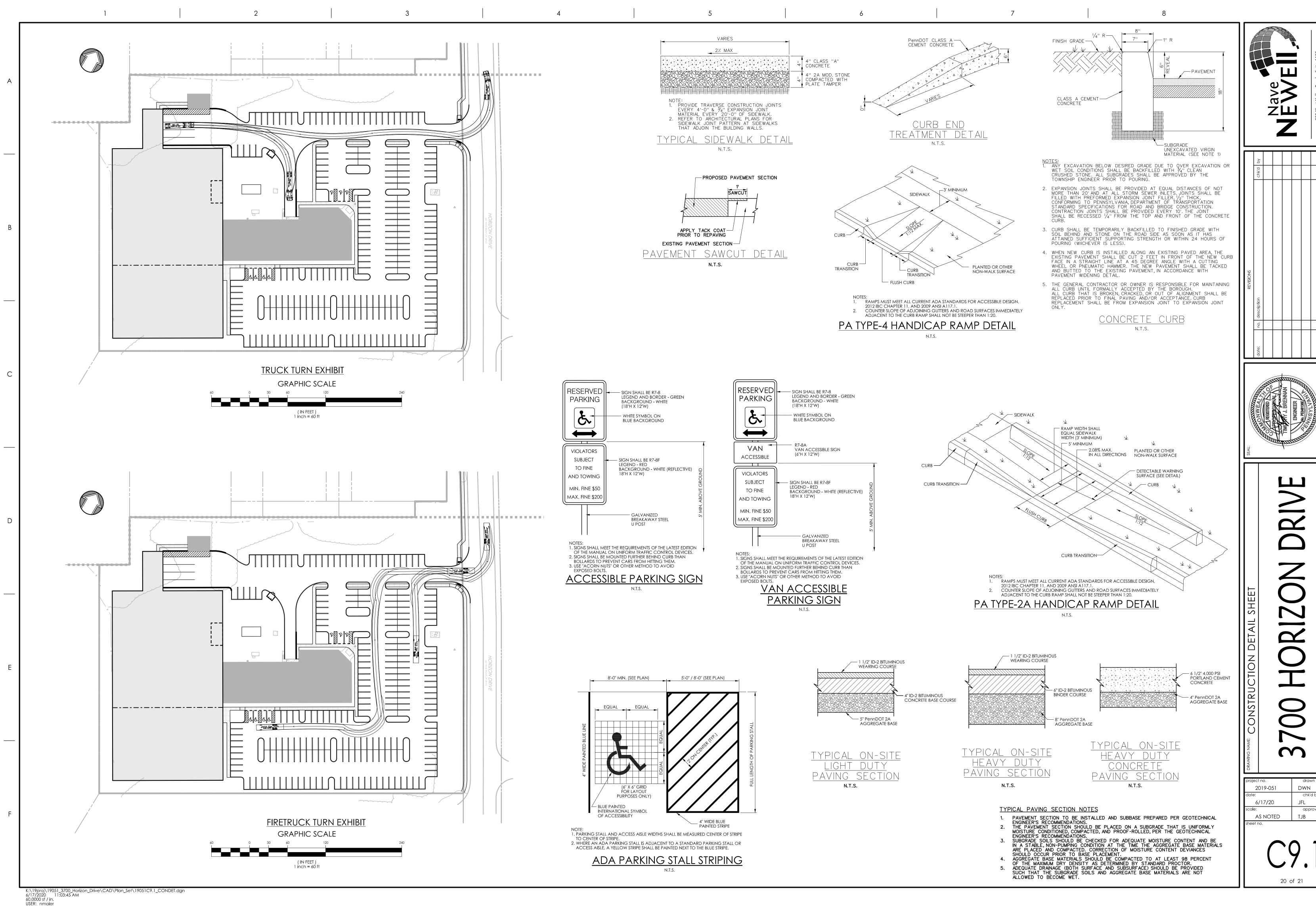
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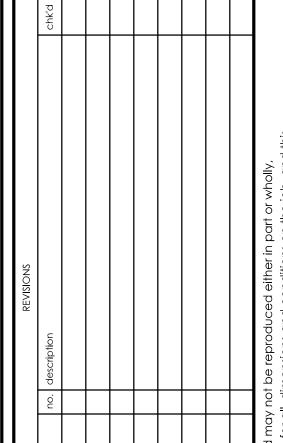
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19 of 21

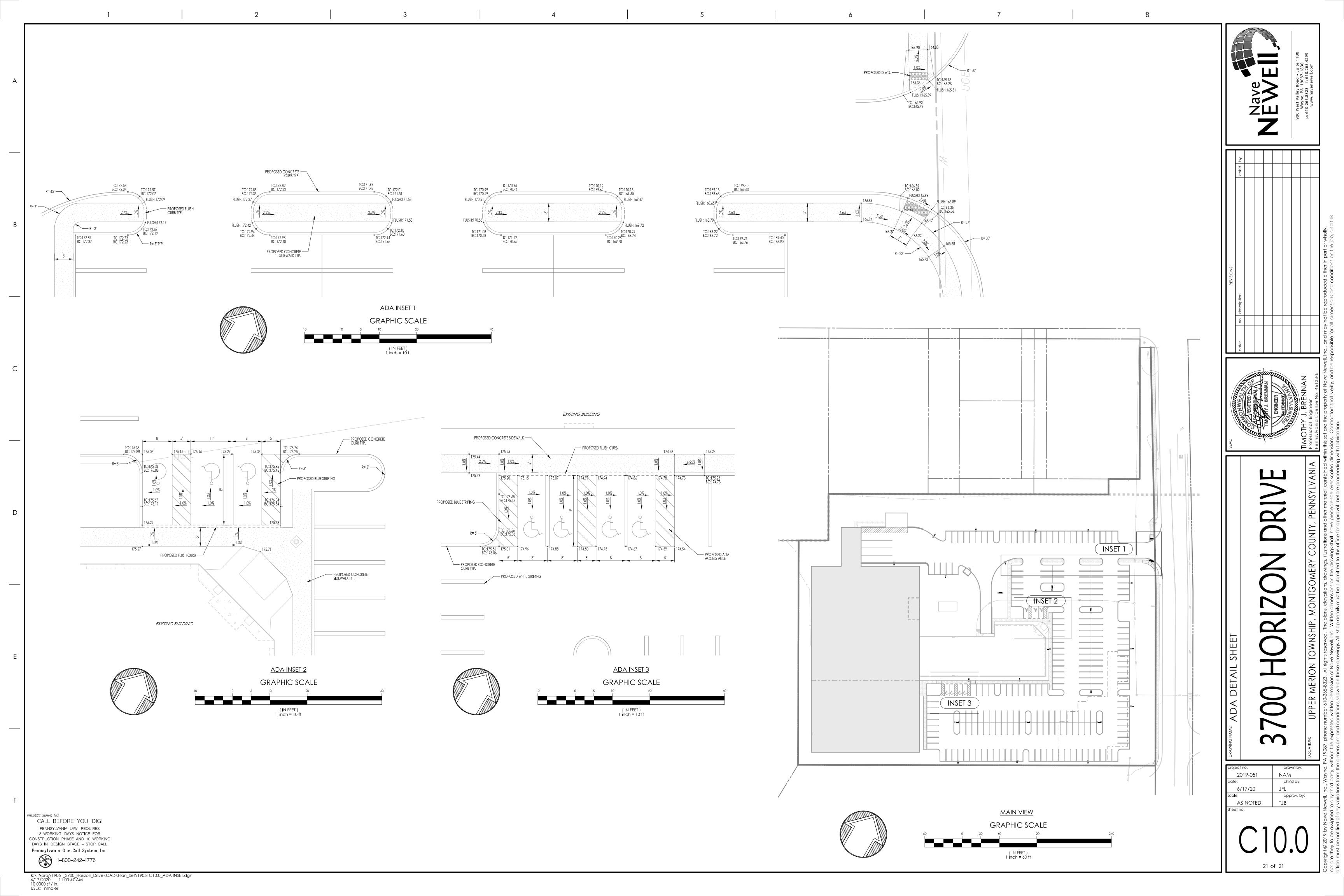
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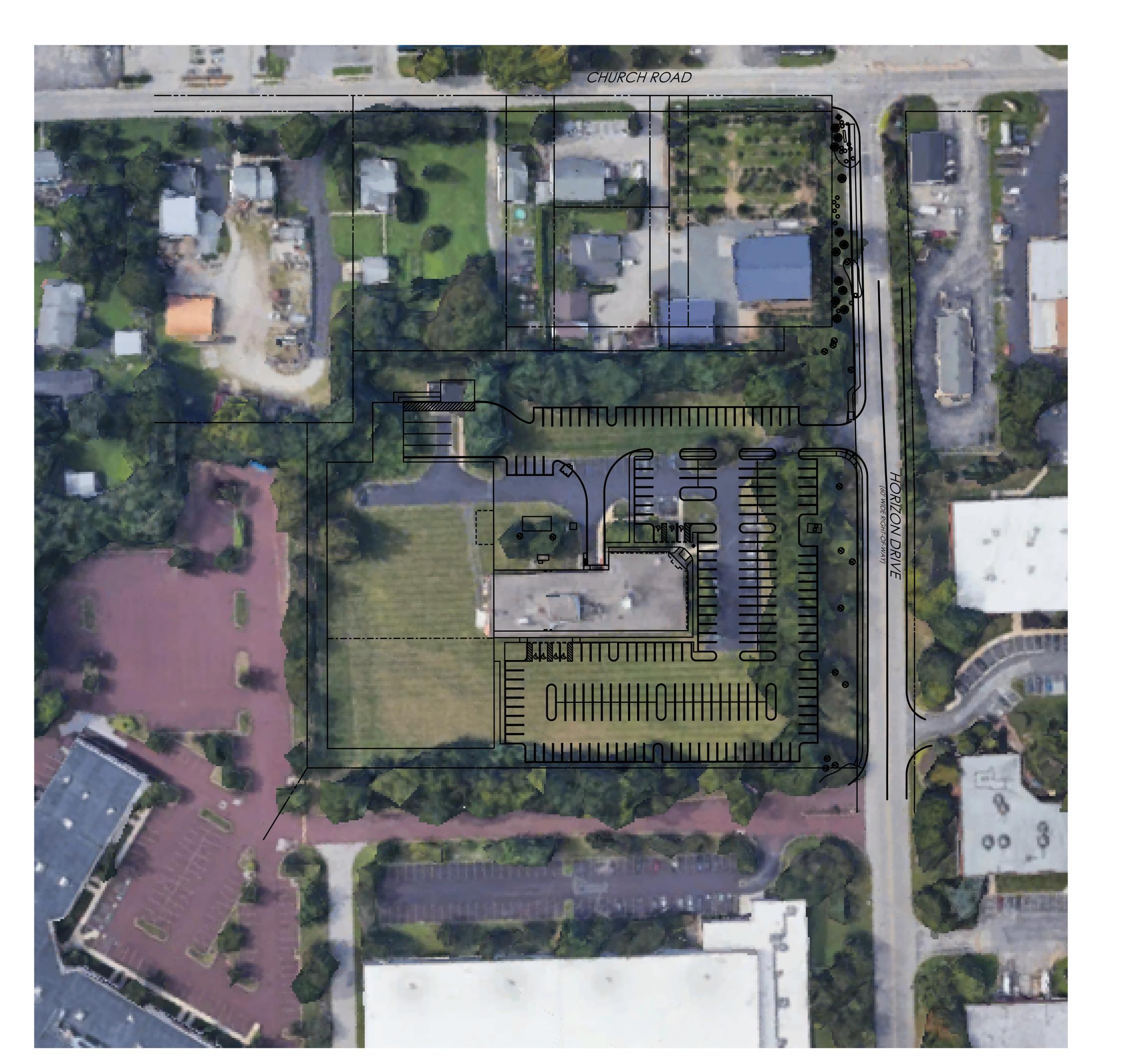






chk'd by: approv. by:





RIV

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Nave EWEII

2019-051 chk'd by: 6/17/20 approv. by: TJB 1'' = 50'

of 21

PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE – STOP CALL Pennsylvania One Call System, Inc. 1-800-242-1776

<u>Project serial no.</u> CALL BEFORE YOU DIG!