



## TYPICAL NOTES

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This sheet shall not be modified without prior approval from the City of Lexington Engineering Department. Any additional notes must be shown on the preceding plan sheets, if needed. Notes and/or requirements on this sheet that do not apply to the site/project to which this sheet is affixed, may be ignored.

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### GENERAL/SITE NOTES

- ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST VERSIONS OF THE CITY OF LEXINGTON, NCDOT AND NCDEQ STANDARDS, DETAIL DRAWINGS, AND SPECIFICATIONS.
- PERMANENT DRAINAGE EASEMENTS (PDE) ARE TO BE MAINTAINED BY THE INDIVIDUAL PROPERTY OWNER OR HOMEOWNERS ASSOCIATION. PIPE SYSTEMS AND/OR CHANNELS LOCATED WITHIN THE EASEMENT ARE THE MAINTENANCE RESPONSIBILITY OF THE PRIVATE PROPERTY OWNER OR THE HOMEOWNERS ASSOCIATION. THE CITY WILL NEITHER MAINTAIN THE GROUNDS NOR REMOVE ANY OBSTRUCTIONS IN THAT AREA.
- PERMANENT DRAINAGE EASEMENT WIDTHS SHALL CONFORM TO LIDS #3026.
- THE PURPOSE OF THE PERMANENT DRAINAGE EASEMENT IS TO PROVIDE STORMWATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORMWATER FLOW IS PROHIBITED.
- ALL RADII AT INTERSECTIONS SHALL MEET STANDARD DEFINED IN TABLE 1-4 IN THE LIDS MANUAL.
- PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES.
- THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHTS-OF-WAY WHEN WORKING IN THESE AREAS.
- A RIGHT-OF-WAY ENCROACHMENT PERMIT IS REQUIRED FOR ANY AND ALL WORK TO BE PERFORMED BY A PRIVATE INDIVIDUAL, GROUP, BUSINESS, OR HOME/PROPERTY OWNERS ASSOCIATION WITHIN A PROPOSED OR EXISTING CITY OF LEXINGTON PUBLIC RIGHT-OF-WAY AND CITY OF LEXINGTON EASEMENTS. IT IS POSSIBLE THAT LEXINGTON MAY NOT APPROVE ALL ITEMS SOUGHT UNDER AN ENCROACHMENT PERMIT. CONTACT CITY OF LEXINGTON ENGINEERING FOR PERMIT QUESTIONS.
- ALL DRAINAGE FACILITIES, CURB CUTS, AND CURB RAMPS MUST BE CONSTRUCTED IN COMPLIANCE WITH NCDOT AND LEXINGTON INFRASTRUCTURE DEVELOPMENT STANDARDS MANUAL AND COORDINATED WITH THE CITY ENGINEERING DEPARTMENT.
- ALL PROPOSED TREES, BERMS, WALLS, FENCES AND/OR IDENTIFICATION SIGNS MUST NOT INTERFERE WITH THE SIGHT DISTANCE AT THE STREET INTERSECTIONS.
- PROPOSED SIGNAGE AND LANDSCAPING AND OTHER MONUMENTATIONS SHALL BE PERMITTED IN CONFORMANCE WITH ZONING ORDINANCE REQUIREMENTS.
- ALL PAVEMENT MARKINGS SHALL HAVE A MINIMUM WIDTH OF FOUR (4) INCHES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES WITH THE CITY OF LEXINGTON PUBLIC SERVICES DEPARTMENT.
- DEVELOPER OR CONTRACTOR WILL PROVIDE STREET SIGNAGE PLAN TO THE CITY OF LEXINGTON SHOWING LOCATIONS AND VERBAGE FOR ALL STREET SIGNS, WARNING SIGNS, REGULATORY SIGNS, STOP SIGNS, ETC. THE CITY OF LEXINGTON STREET MAINTENANCE DEPARTMENT WILL INSTALL ALL SIGNAGE WITHIN PROPOSED RIGHTS-OF-WAY. THE CONTRACTOR OR DEVELOPER WILL BE RESPONSIBLE FOR ALL SIGNAGE ON PRIVATE PROPERTY AND PRIVATE STREETS.
- ALL DRIVEWAYS SHALL BE IN ACCORDANCE WITH NCDOT AND CITY OF LEXINGTON STANDARDS, DETAILS, AND SPECIFICATIONS.
- CONTRACTOR TO COORDINATE ANY PROBLEMS OR FIELD CONDITIONS THAT MAY CHANGE WITH THE ENGINEER PRIOR TO PROCEEDING.
- ALL ADA RAMPS SHALL BE CONSTRUCTED PER NCDOT AND ADA REGULATIONS, STANDARDS, DETAILS, AND SPECIFICATIONS.
- CONTACT UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES.
- BEFORE ANY DIGGING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE NORTH CAROLINA ONE-CALL CENTER (811).
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR, OWNER AND ENGINEER SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY OF LEXINGTON HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH PERFORMANCE.
- DUST CONTROL AND STREET SWEEPING IS REQUIRED ON ALL STREETS WITHIN THE PROJECT AS WELL AS ADJACENT STREETS. CONTRACTOR WILL BE REQUIRED TO KEEP ALL EXISTING STREETS CLEAN.
- ALL FIELD CHANGES MUST BE APPROVED BY THE CITY ENGINEER OR DESIGNEE PRIOR TO IMPLEMENTATION OR INSTALLATION. ALL UNAPPROVED CHANGES IN THE FIELD TO THE APPROVED CONSTRUCTION DRAWINGS SHALL BE CORRECTED AT NO EXPENSE TO THE CITY OF LEXINGTON PRIOR TO ACCEPTANCE OF ANY PUBLIC INFRASTRUCTURE FOR MAINTENANCE BY THE CITY.
- THE CITY WILL NOT ISSUE A FINAL PLAT UNTIL ALL WATER AND SEWER FOR THE PLATTED LOTS HAS BEEN COMPLETED, TESTED, CERTIFIED, AND AS-BUILTS SUBMITTED, AND APPROVAL ISSUED BY NCDEQ. WASTEWATER PUMPING STATIONS MUST BE COMPLETED IN THEIR ENTIRETY PRIOR TO ISSUANCE OF A FINAL PLAT.

### GRADING NOTES

- ANY DISTURBANCE GREATER THAN 4,000 SQUARE FEET IN SIZE, WILL REQUIRE AN APPROVED LAND DISTURBANCE PERMIT FROM THE CITY OF LEXINGTON PRIOR TO ANY DISTURBANCE OF THE SITE. CITY ENGINEERING MAY REQUIRE AN ON SITE MEETING PRIOR TO ANY CLEARING, GRUBBING OR GRADING OF THE SITE.
- DISTURBANCE OF MORE THAN ONE (1) ACRE WILL REQUIRE EROSION CONTROL PERMITTING FROM NCDEQ AND MAY BE SUBJECT TO THE CITY OF LEXINGTON'S POST-CONSTRUCTION STORMWATER REGULATIONS. A CERTIFICATE OF COVERAGE MUST BE OBTAINED FROM NCDEQ PRIOR TO ISSUANCE OF A CITY OF LEXINGTON LAND DISTURBANCE PERMIT.
- ALL LAND DISTURBING ACTIVITIES SHALL BE WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. ANY WORK DONE OUTSIDE THE LIMITS OF DISTURBANCE MAY BE SUBJECT TO ADDITIONAL PERMITTING AND/OR REGULATIONS AND MAY REQUIRE THE RE-REVIEW OF THE CONSTRUCTION DOCUMENTS. THE CITY OF LEXINGTON, AT ITS DISCRETION, MAY ISSUE A STOP-WORK ORDER FOR ANY DISTURBANCE OUTSIDE THE LIMITS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNERS AND EASEMENT OWNERS FOR GRADING AND/OR THE INSTALLATION OF EROSION CONTROL MEASURES, IF NECESSARY.
- GRADED SHALL NOT EXCEED 2H:1V FOR CUT SLOPES AND 3H:1V FOR FILL SLOPES
- IN ORDER TO ENSURE PROPER DRAINAGE, MAINTAIN A MINIMUM CURB SLOPE OF 0.5%.
- GENERAL CONTRACTOR TO COORDINATE WITH THE GRADING AND LANDSCAPE CONTRACTORS TO ENSURE THAT FINISHED GRADES ARE MET WITH POSITIVE DRAINAGE TO STORM INLET STRUCTURES. THERE SHALL BE NO PONDING OF WATER ON SIDEWALKS, GUTTERS, PAVED AREAS, LANDSCAPED AREAS, OR GRASSED AREAS OF THE SITE.
- ALL GRADING EARTHWORK IS SUBJECT TO COMPACTION AT 95% MINIMUM STANDARD PROCTOR DENSITY. THE TOP 12 INCHES OF FILL SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY. FILL MATERIALS, EXACT COMPACTION RATE, MOISTURE CONTENT, AND METHODOLOGY ARE TO BE RECOMMENDED, TESTED, AND CERTIFIED BY A GEOTECHNICAL ENGINEER. THIS ALSO APPLIES TO ALL POND EMBANKMENTS.
- THE LIMITS OF DISTURBANCE SHALL BE SHOWN MINIMUM 10FT BEYOND THE GRADING LIMITS TO ENSURE THAT THE EROSION CONTROL MEASURES CAN BE INSTALLED WITHIN THE DISTURBED LIMITS.
- ALL AREAS TO BE GRADED SHALL BE STRIPPED TO REMOVE ALL TOPSOIL, STUMPS, ROOTS, ORGANICS AND OTHER UNSUITABLE MATERIAL. AFTER STRIPPING, EXPOSED SUBGRADE AREAS TO BE FILLED SHALL BE PROOF ROLLED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER. IF UNSTABLE AREAS ARE ENCOUNTERED THAT ARE THE RESULT OF WET SOIL CONDITIONS, REASONABLE EFFORT SHALL BE MADE TO MECHANICALLY DRY THOSE SOILS BY DISKING, HARROWING, OR OTHER MEANS. IF UNSUITABLE SOILS ARE ENCOUNTERED, THE UNSUITABLE SOILS SHALL BE UNDERCUT TO FIRM MATERIALS AS DIRECTED BY THE GEOTECHNICAL ENGINEER, AND BACKFILLED WITH CONTROLLED FILL.
- TOPSOIL THAT IS FREE OF LARGE ROOTS AND HEAVY VEGETATION MASS MAY BE STOCKPILED ONSITE FOR LATER RESPADEING AS NEEDED. STRIPPINGS WITH LARGE ROOTS, HEAVY VEGETATION MASS, UNDERCUT AND UNSUITABLE SOILS, AND EXCESS SOILS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR
- CROSS SLOPES ON ALL SIDEWALKS AND ACCESSIBLE ROUTES SHALL NOT EXCEED 2.00%. LONGITUDINAL SLOPES ON ACCESSIBLE ROUTES SHALL NOT EXCEED 5.00%, EXCEPT WHERE AN ACCESSIBLE RAMP MEETING THE ACCESSIBILITY CODE (ADA) AND THE NORTH CAROLINA BUILDING CODE (NCBC) IS PROVIDED.
- ACCESSIBLE RAMPS SHALL NOT EXCEED 8.33% LONGITUDINAL AND 2.00% CROSS SLOPE. ALL LANDINGS ADJACENT TO ACCESSIBLE RAMPS AND OUTSIDE ALL DOORS SHALL BE SIZED PER ADA AND NCBC REQUIREMENTS AND SHALL NOT EXCEED 2.00% IN ANY DIRECTION, INCLUDING DIAGONAL.
- SLOPES IN HANDICAP PARKING SPACES AND ACCESS AISLE AREA SHALL NOT EXCEED 2.00% IN ANY DIRECTION, INCLUDING DIAGONAL.
- THERE SHALL BE LEVEL TURNING AREAS (MAXIMUM 2.00% SLOPE IN ANY DIRECTION, INCLUDING DIAGONAL) ON ALL SIDEWALKS WHEN INTERSECTING WITH ANOTHER SIDEWALK.
- PEDESTRIAN ROUTES >5.00% ARE CONSIDERED RAMPS WITH SLOPES NO GREATER THAN 8.33%. MAX RISE 30 INCHES BETWEEN LANDINGS. LEVEL LANDINGS AT THE TOP AND BOTTOM (MAXIMUM 2.00% SLOPE IN ANY DIRECTION, INCLUDING DIAGONAL). HANDRAILS, EDGE PROTECTION, DIMENSIONS AND SLOPES SHALL COMPLY WITH ADA AND NCBC STANDARDS.
- ALL SITE STEPS SHALL HAVE LANDINGS AT THE TOP AND BOTTOM (MAXIMUM 2.00% SLOPE IN ANY DIRECTION, INCLUDING DIAGONAL).
- ALL PEDESTRIAN AND ACCESSIBLE AREAS SHALL HAVE A MINIMUM SLOPE OF 0.50% IN ALL DIRECTIONS WITH POSITIVE DRAINAGE. A SPOT ELEVATION/GRADING PLAN MAY BE REQUIRED TO SHOW THAT ALL ACCESSIBLE AND PEDESTRIAN ROUTES HAVE POSITIVE DRAINAGE.
- FINISHED GRADE OF LANDSCAPE AREAS ABUTTING BUILDINGS SHALL BE 6 INCHES BELOW THE FINISHED FLOOR ELEVATION UNLESS OTHERWISE INDICATED AND SUFFICIENT DRAINAGE MEASURES ARE PROVIDED TO ALLOW WEEP HOLES FROM BUILDING TO PROPERLY DRAIN. GRADE SHALL SLOPE AWAY FROM ALL BUILDINGS.
- ALL STRUCTURES WITHIN THE GRADING LIMITS SHALL BE ADJUSTED TO FINISHED GRADE. STRUCTURES WITHIN A PROPOSED STREET SHALL BE SET TO FINAL GRADE PRIOR TO THE INSTALLATION OF THE FIRST LIFT OF ASPHALT. SETTING TO INITIAL GRADE AND ADJUSTMENT TO FINAL GRADE AFTER THE FIRST LIFT OF ASPHALT IS NOT PERMITTED.

### STORM DRAINAGE NOTES

- SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE CITY INSPECTOR.
- ALL STORM PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE APPROVED. BACKFILL MATERIAL MUST BE APPROVED BY THE NCDOT OR CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL IN THE RIGHT-OF-WAY.
- ALL FLARED END SECTIONS MUST BE RCP. WHEN JOINING A CONCRETE FLARED END SECTION TO A PIPE OF DIFFERENT MATERIAL, THE JOINT MUST BE WRAPPED IN GEOTEXTILE FABRIC AND A CONCRETE COLLAR PER NCDOT 840.72 SHALL BE INSTALLED. THE THICKNESS OF THE COLLAR MAY BE REQUIRED TO BE LARGER THAN WHAT IS REQUIRED BY NCDOT AT THE DISCRETION OF THE CITY OF LEXINGTON INSPECTOR.
- ENGINEERED DRAWINGS MUST BE SUBMITTED FOR ALL NON-STANDARD DRAINAGE STRUCTURES AND HEADWALLS PRIOR TO INSTALLATION.
- REFER TO NCDOT STD DETAILS 300.01 FOR METHOD OF STORM PIPE INSTALLATION.
- ALL CURB INLET RIM ELEVATIONS SHALL BE MEASURED FROM THE CENTER-LIP OF THE EDGE OF PAVEMENT. ALL GRATED DROP INLET RIM ELEVATIONS SHALL BE MEASURED FROM THE TOP OF THE GRATE. ALL SLAB TOP YARD INLET RIM ELEVATIONS SHALL BE MEASURED FROM THE BOTTOM OF THE THROAT.
- ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED ON THE PLANS. LENGTHS OF ALL FLARED END SECTIONS ARE INCLUDED IN THE LENGTHS OF THE APPLICABLE OUTLET PIPES.
- ALL SLAB TYPE INLETS SHALL HAVE THE NUMBER OF THROAT OPENINGS SPECIFIED IN THE TABLE ON LIDS STD DETAIL 3017 IN THE NOTES COLUMN.
- ALL FLARED END SECTIONS' SLOPE AND ORIENTATION ARE TO BE THE SAME AS THE ATTACHED OUTLET PIPE.
- ALL STORM STRUCTURES SHALL BE CONSTRUCTED PER LEXINGTON OR APPROVED NCDOT STANDARDS, DETAILS, AND SPECIFICATIONS.
- WAFFLE-WALL STRUCTURES ARE NOT PERMITTED FOR USE IN THE CITY OF LEXINGTON.
- ALL MATERIALS DEEMED UNSUITABLE BY THE CITY INSPECTOR SHALL BE REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR.

### GENERAL UTILITY NOTES

- ALL WATER AND SEWER MATERIALS MUST BE APPROVED BY ENGINEERING SERVICES DEPARTMENT PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING. ALLOW A MINIMUM OF TEN (10) WORKING DAYS FOR MATERIAL SUBMITTAL REVIEWS. REFER TO THE CITY OF LEXINGTON SANITARY SEWER AND WATER DESIGN MANUAL FOR THE APPROVED MATERIALS LIST.
- ALL PUBLIC UTILITIES CONTRACTORS AND SUBCONTRACTORS SHALL ATTEND A MANDATORY PRE-CONSTRUCTION MEETING WITH CITY OF LEXINGTON ENGINEERING SERVICES DEPARTMENT PRIOR TO ANY WATER OR SEWER WORK. TO SUBMIT MATERIALS PACKETS AND COORDINATE THE PRE-CONSTRUCTION MEETING, CONTACT ENGINEERING SERVICES AT 336-248-3970 OR E-MAIL ENGINEERINGSERVICES@LEXINGTONNC.GOV.
- CONTACT CITY OF LEXINGTON CONSTRUCTION INSPECTOR AT 336-615-2623 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO SUBSURFACE EXCAVATIONS FOR PUBLIC WATER AND SEWER.
- ALL WATER AND SEWER CONSTRUCTION SHALL BE INSPECTED BY THE CITY OF LEXINGTON CONSTRUCTION INSPECTOR. THE CITY MAY REQUIRE THE REINSTALLATION OF UNINSPECTED PUBLIC UTILITY INSTALLATIONS AT NO EXPENSE TO THE CITY OF LEXINGTON. THE CITY OF LEXINGTON RESERVES THE RIGHT TO DENY ACCEPTANCE AND CONNECTION TO THE PUBLIC SYSTEM OF UNINSPECTED INFRASTRUCTURE.
- UNDOCUMENTED/UNAPPROVED MATERIALS WILL NOT BE ACCEPTED BY THE CITY OF LEXINGTON AND SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTORS SHALL MAINTAIN A LEGIBLE SET OF THE CITY OF LEXINGTON APPROVED CONSTRUCTION DOCUMENTS ON SITE DURING CONSTRUCTION AND TESTING. CITY-APPROVED DRAWINGS BEAR A CITY OF LEXINGTON APPROVAL STAMP AND DATE APPROVED BY THE CITY ENGINEER.
- NEW WATER AND SEWER MAINS AND SERVICES SHALL BE INSTALLED WITH A MINIMUM OF FIVE (5) FEET OF HORIZONTAL SEPARATION FROM PARALLEL UTILITIES LINES AND STORM DRAINAGE PIPES AND STRUCTURES. IN NO CASE SHALL OTHER PARALLEL UTILITIES BE INSTALLED WITHIN A PUBLIC WATER OR PUBLIC SANITARY SEWER EASEMENT.
- CITY OF LEXINGTON WATER METERS AND SANITARY SEWER SERVICE CLEANOUTS SHALL NOT BE INSTALLED WITHIN DRIVEWAYS, WALKWAYS, OR PAVEMENT OF ANY KIND. CONTRACTORS SHALL INSTALL SERVICES NEAR SHARED PROPERTY LINES OR AS APPROPRIATE TO PREVENT CONFLICTS WITH FUTURE DRIVEWAYS AND DRIVEWAY CULVERTS.
- WATER METERS AND SEWER CLEANOUTS SHALL BE INSTALLED UP TO THE RIGHT-OF-WAY LIMIT AND SHALL NOT ENCROACH THE SIDEWALK OR ANY EASEMENTS RESERVED FOR SIDEWALKS AND DRY UTILITIES.
- METERS AND CLEANOUTS SHALL BE INSTALLED OR MADE FLUSH WITH THE GROUND SURFACE IN ALL INSTANCES.
- CONTRACTOR(S) SHALL PRE-TEST WATER AND SANITARY SEWER WITH PASSING RESULTS PRIOR TO SCHEDULING FINAL TESTING WITH THE ENGINEER OF RECORD AND CITY OF LEXINGTON CONSTRUCTION INSPECTOR. CONTACTOR(S) MUST COORDINATE THE TESTING DATE WITH THE ENGINEER AND CITY INSPECTOR A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE TESTING DATE.

### SANITARY SEWER NOTES

- ALL PUBLIC SEWER MAINS SHALL BE 8" MINIMUM DIAMETER. PRIVATE MAINS MAY BE 6" MINIMUM DIAMETER.
- MINIMUM COVER, AS CONSTRUCTED, OVER SANITARY SEWER MAINS FROM TOP OF PIPE TO FINISHED GRADE IS THIRTY-SIX (36) INCHES WITHIN CITY RIGHTS-OF-WAY AND EASEMENTS. MINIMUM AS-BUILT COVER OVER SANITARY SEWER MAINS FROM TOP OF PIPE TO FINISHED GRADE IS FORTY-EIGHT (48) INCHES WITHIN NCDOT RIGHTS-OF-WAY UNLESS OTHERWISE SPECIFIED BY NCDOT.
- MANHOLES SHALL BE INSTALLED OUTSIDE OF GUTTERS, DITCHES, AND DRAINAGE PATHS. UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- THE MINIMUM AND MAXIMUM ACCEPTABLE PIPE GRADE, AS CONSTRUCTED, FOR EIGHT-INCH GRAVITY SEWER MAINS IS 0.50% AND 10.00% RESPECTIVELY. MAXIMUM PIPE GRADE MAY BE REDUCED BY THE CITY OF LEXINGTON TO MEET MAXIMUM APPROVABLE WASTEWATER VELOCITY. ANY DEVIATIONS FROM THE GRADES SHOWN IN THE CITY-APPROVED CONSTRUCTION DOCUMENTS THAT REDUCE WASTEWATER VELOCITIES TO LESS THAN 2 FEET PER SECOND OR INCREASE VELOCITIES TO MORE THAN FIFTEEN (15) FEET PER SECOND SHALL BE CORRECTED AS DIRECTED BY THE CITY ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- SEWER SERVICES SHALL BE INSTALLED WITH MINIMUM OF TWELVE (12) INCHES VERTICAL SEPARATION WITH OTHER UTILITIES AT CROSSINGS OR THE SEWER SERVICE SHALL BE REPLACED WITH DUCTILE IRON PIPE. IN NO CASE SHALL SEWER SERVICES CONTACT OTHER PIPELINES OR DRY UTILITIES AS INSTALLED.
- WHERE SEWER SERVICES ARE DUCTILE IRON AND THE SEWER MAIN IS PVC, A SOLID TRANSITION ADAPTER (MANUFACTURED FOR THE SPECIFIC OUTER DIAMETERS) OR A SOLID BODY TRANSITION COUPLER SHALL BE USED TO CONNECT THE DISSIMILAR OUTER DIAMETERS. FLEXIBLE COUPLERS AND CLAMPS SUCH AS FERNCO, SHALL NOT BE AUTHORIZED.
- SANITARY SEWER MAINS MUST BE INSTALLED WITH A MINIMUM OF EIGHTEEN (18) INCHES OF VERTICAL SEPARATION BELOW WATER MAINS AT PIPELINE CROSSINGS UNLESS SPECIFICALLY NOTED WITH MATERIALS AND INSTALLATION CRITERIA SPECIFIED WITHIN THE CITY-APPROVED CONSTRUCTION DRAWINGS. SANITARY SEWER MAINS MUST BE INSTALLED WITH A MINIMUM OF EIGHTEEN (18) INCHES OF VERTICAL SEPARATION FROM STORM PIPES AND OTHER PIPELINES AT CROSSINGS, UNLESS OTHERWISE SPECIFIED WITHIN THE CITY-APPROVED CONSTRUCTION DRAWINGS. ANY DEVIATION FROM THE APPROVED SEPARATIONS SHALL REQUIRE CORRECTION AS DIRECTED BY THE CITY CONSTRUCTION INSPECTOR OR CITY ENGINEER AT NO EXPENSE TO THE CITY.
- SANITARY SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM OF THREE (3) FEET OF COVER UNLESS APPROVED OTHERWISE WITHIN THE CITY-APPROVED CONSTRUCTION DOCUMENTS.
- SEWER MAINS AND SERVICES INSTALLED WITH MORE THAN TEN (10) FEET OF COVER FROM TOP OF PIPE TO FINISHED GRADE SHALL BE DUCTILE IRON.
- ALL PIPE MATERIALS SHALL BE CONSTANT FROM MANHOLE TO MANHOLE.
- PUBLIC SEWER MAIN EXTENSIONS MUST MEET CITY OF LEXINGTON STANDARDS AND SPECIFICATIONS WHENEVER STRICTER THAN NCDEQ.
- ALL SANITARY SEWER MUST BE PROPERLY CLEANED AND TESTED FOR ACCEPTANCE BY THE CITY OF LEXINGTON. TESTING AT A MINIMUM, SHALL INCLUDE: LOW PRESSURE AIR TESTING, MANDREL, CCTV INSPECTION, AND MANHOLE VACUUM TESTING; ALL WITH PASSING RESULTS IN THE PRESENCE OF THE ENGINEER OF RECORD AND THE CITY CONSTRUCTION INSPECTOR.
- ALL REPORTS AND TESTING RESULTS MUST BE SUBMITTED TO THE CITY CONSTRUCTION INSPECTOR BY THE ENGINEER. THE CITY WILL NOT BE RESPONSIBLE FOR RECORDING THE RESULTS NOR ANY DELAYS IN THE ACCEPTANCE DUE TO SCHEDULING CONFLICTS WITH THE ENGINEER AND THE INSPECTOR.

### STORMWATER CONTROL MEASURE NOTES

- ALL STORMWATER PONDS HOLDING A PERMANENT POOL MUST HAVE A 4 FOOT MINIMUM TALL FENCE SEPARATING IT FROM ADJACENT ROADWAYS AND/OR BUILDINGS. WHEN CROSSING THE EMERGENCY SPILLWAY OF THE POND, THE FENCE MUST BE INSTALLED AS TO NOT OBSTRUCT DEBRIS FROM PASSING THROUGH THE SPILLWAY. FENCES SHALL MEET THE DESIGN STANDARDS FOR FENCES AND WALLS AS OUTLINED IN THE CITY OF LEXINGTON UNIFIED DEVELOPMENT ORDINANCE.

### CITY OF LEXINGTON WATER DISTRIBUTION NOTES

- THE FOLLOWING NOTES APPLY TO WATER SYSTEMS, PUBLIC OR PRIVATE, THAT CONNECT, OR INTEND TO CONNECT TO THE CITY OF LEXINGTON'S WATER DISTRIBUTION SYSTEM. CONTACT DAVIDSON WATER, INC. FOR NOTES AND REQUIREMENTS WHEN CONNECTING TO A DAVIDSON WATER, INC. WATER SYSTEM.
- NEW WATER MAINS SHALL BE DUCTILE IRON PC 350 EXCEPT AS APPROVED FOR LIMITED FOOTAGE TWO-INCH DIAMETER PVC MAINS SERVING DEAD-END STREETS OR WHERE FUTURE WATER MAIN EXTENSIONS ARE NOT PROBABLE. TWO-INCH SDR 17 PVC (PC 250) MAINS SHALL BE INSTALLED ONLY WHERE APPROVED BY THE CITY ENGINEER.
- MINIMUM COVER OVER WATER MAINS FROM FINISHED GRADE TO TOP OF WATER MAIN SHALL BE THIRTY-SIX (36) INCHES, UNLESS APPROVED BY THE CITY ENGINEER OR DESIGNEE. WHERE APPROVED, MAINS WITH LESS THAN 36" COVER, MUST BE INSPECTED BY THE CITY ENGINEER OR DESIGNEE DURING CONSTRUCTION TO BE ACCEPTED BY THE CITY OF LEXINGTON. UNAPPROVED SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF LEXINGTON.
- WATER SERVICE LINES FROM THE WATER MAIN TO THE LOT FRONTAGE SHALL BE INSTALLED BETWEEN 18" AND 24" OF DEPTH FROM FINISHED GRADE.
- METER BOXES MUST BE SET FLUSH WITH THE GROUND SURFACE FOR THE CITY TO INSTALL THE METER. THE CITY MAY WITHHOLD METER SET AND/OR SERVICE ACTIVATION UNTIL CORRECTED.
- MINIMUM COVER OVER WATER MAINS FROM FINISHED GRADE TO TOP OF WATER MAIN SHALL BE THIRTY-SIX (36) INCHES, UNLESS APPROVED BY THE CITY ENGINEER OR DESIGNEE. WHERE APPROVED, MAINS WITH LESS THAN 36" COVER, MUST BE INSPECTED BY THE CITY ENGINEER OR DESIGNEE DURING CONSTRUCTION TO BE ACCEPTED BY THE CITY OF LEXINGTON. UNAPPROVED SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF LEXINGTON.
- WATER MAINS MUST BE INSTALLED WITH A MINIMUM OF EIGHTEEN (18) INCHES OF VERTICAL SEPARATION OVER SANITARY SEWER MAINS AT PIPELINE CROSSINGS UNLESS SPECIFICALLY NOTED WITH MATERIALS AND INSTALLATION CRITERIA WITHIN THE CITY-APPROVED CONSTRUCTION DOCUMENTS. WATER MAINS MUST BE INSTALLED WITH A MINIMUM OF TWELVE INCHES OF VERTICAL SEPARATION OVER OTHER PIPELINES AND DRY UTILITIES AT CROSSINGS, UNLESS SPECIFICALLY IDENTIFIED WITHIN THE CITY-APPROVED CONSTRUCTION DOCUMENTS. ANY DEVIATION FROM THE APPROVED SEPARATIONS SHALL BE CORRECTED AS DIRECTED BY THE CITY ENGINEER OR DESIGNEE.
- IF AN EXISTING FIRE HYDRANT IS NOT READILY AVAILABLE TO PROVIDE CONSTRUCTION WATER VIA HYDRANT METER, THE CONTRACTOR MAY BE REQUIRED TO PAY THE CITY OF LEXINGTON TO INSTALL A FIRE HYDRANT ON THE EXISTING PUBLIC WATER MAIN NEAR THE NEW WATER MAIN CONSTRUCTION.
- NEW WATER MAINS SHALL REMAIN ISOLATED FROM THE CITY'S WATER SYSTEM UNTIL AUTHORIZATION TO OPERATE IS GRANTED BY NC PUBLIC WATER SUPPLY SECTION.
- ALL PUBLIC WATER MAIN VALVES MUST ONLY BE OPERATED BY CITY STAFF.
- CONTRACTORS SHALL NOT OPERATE FIRE HYDRANTS, VALVES, OR OTHER CITY-OWNED WATER INFRASTRUCTURE WITHOUT WRITTEN AUTHORIZATION FROM THE WATER RESOURCES OPERATOR IN RESPONSIBLE CHARGE (ORC).
- CONTRACTORS WHO OBTAIN A CURRENT NON-POTABLE WATER PERMIT AND CITY HYDRANT METER SHALL BE AUTHORIZED TO OBTAIN WATER AS PRESCRIBED WITHIN THE PERMIT.
- ALL WATER TO BE USED FOR WATER/SANITARY SEWER CLEANING, DISINFECTION, TESTING, ETC... SHALL BE PURCHASED FROM THE CITY OF LEXINGTON VIA METERED CONNECTION OR TEMPORARY WATER USE PERMIT. FOR TEMPORARY WATER USE PERMITS AND HYDRANT METERS, CONTRACTOR SHALL CONTACT THE UTILITIES SERVICES COORDINATOR AT 336-248-3930 TO MAKE APPLICATION AND PAY ASSOCIATED FEES.
- PUBLIC WATER MAIN EXTENSIONS AND APPURTENANCES SHALL MEET NC PUBLIC WATER SUPPLY REGULATIONS AND CITY OF LEXINGTON CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHICHEVER IS STRICTER. ALL WATER MAINS MUST PASS HYDROSTATIC TESTING AND LEAKAGE LIMITS, AND BE PROPERLY FLUSHED AND DISINFECTED FOR ACCEPTANCE BY THE CITY OF LEXINGTON. PASSING HYDROSTATIC TESTS MUST BE CONDUCTED IN THE PRESENCE OF THE ENGINEER OF RECORD AND THE CITY CONSTRUCTION INSPECTOR.
- ALL REPORTS AND TESTING RESULTS MUST BE SUBMITTED TO THE CITY CONSTRUCTION INSPECTOR BY THE ENGINEER. THE CITY WILL NOT BE RESPONSIBLE FOR RECORDING THE RESULTS NOR ANY DELAYS IN THE ACCEPTANCE DUE TO SCHEDULING CONFLICTS WITH THE ENGINEER AND THE INSPECTOR.

### WATERSHED NOTES

- PERMITTING THROUGH THE US ARMY CORP OF ENGINEERS WILL BE REQUIRED FOR THE DISTURBANCE OF ANY IDENTIFIED WETLANDS.
- PER CHAPTER 15, ARTICLE 3, SECTION 3.1.3 OF THE CITY OF LEXINGTON CODE OF ORDINANCES, A MINIMUM FIFTY (50) FOOT BUFFER MEASURED FROM THE SURVEYED TOP OF BANK WILL BE REQUIRED ALONG BOTH SIDES OF ALL WATERCOURSES CLASSIFIED AS INTERMITTENT OR PERENNIAL... RESTRICTIONS AND PERMITTED USES ARE DEFINED IN SECTIONS 3.2 AND 3.3 OF CHAPTER 15 OF THE CITY CODE.
- DISTURBANCE OF ANY KIND IN A WATERCOURSE BUFFER REQUIRES AN APPROVED WATERCOURSE BUFFER DISTURBANCE PERMIT FROM THE CITY OF LEXINGTON PRIOR TO ANY DISTURBANCE.
- LIMITS OF DISTURBANCE SHALL BE LINED WITH A DOUBLE ROW ORANGE COLORED HIGH-HAZARD SILT FENCE WHEN THE LIMITS ARE WITHIN 10FT OF A PROTECTED WATERCOURSE, FLOODPLAIN, OR WETLAND.
- ALL JURISDICTIONAL WATERCOURSES, WETLANDS, FLOOD HAZARD AREAS AND BASE FLOOD ELEVATIONS SHALL SURVEYED AND CLEARLY SHOWN AND LABELED ON THE PLANS.
- NO FILL MATERIAL OF ANY KIND MAY BE PLACED WITHIN THE SPECIAL FLOOD HAZARD AREA OR DESIGNATED FLOODWAY/NON-ENCROACHMENT AREA.
- ANY AND ALL DISTURBANCE OR DEVELOPMENT WITHIN THE SPECIAL FLOOD HAZARD AREA WILL REQUIRE THE APPROVAL AND ISSUANCE OF A FLOODPLAIN DEVELOPMENT PERMIT PRIOR TO SUCH ACTIVITIES TAKING PLACE.
- NO PERMANENT STRUCTURES SHALL BE ERECTED, INSTALLED OR PLACED WITHIN THE SPECIAL FLOOD HAZARD AREAS OR DESIGNATED FLOODWAY/NON-ENCROACHMENT AREA.

### AS-BUILT NOTES

- THE INTERIOR OF ALL STORM DRAINAGE AND SANITARY SEWER SYSTEMS SHALL BE VIDEOED (CCTV'D) AT NO COST TO THE CITY UPON THE COMPLETION OF INSTALLATION. THE VIDEO AND ALL OTHER DOCUMENTATION SHALL BE SUBMITTED FOR REVIEW TO ENGINEERINGSERVICES@LEXINGTONNC.GOV. THE CITY'S INSPECTOR SHALL BE NOTIFIED OF THE VIDEO AT LEAST 48HRS PRIOR TO TAKING PLACE.
- AS-BUILT DRAWINGS OF THE STORM DRAINAGE SYSTEM(S), INCLUDING ENGINEERED DITCHES, SANITARY SEWER SYSTEM(S) AND WATER DISTRIBUTION SYSTEM MUST BE SUBMITTED TO LEXINGTON ENGINEERING PRIOR TO THE FINAL INSPECTION. SEE SECTION 5 OF THE LIDS MANUAL FOR INFORMATION REQUIRED TO BE PROVIDED ON THE AS-BUILT DRAWINGS.
- PER CHAPTER 15, ARTICLE 1, SECTION 2.3 OF THE LEXINGTON CODE OF ORDINANCES, PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY, SURVEYOR SEALED AS-BUILT DRAWINGS OF ALL STORM WATER CONTROL MEASURES MUST BE PROVIDED.