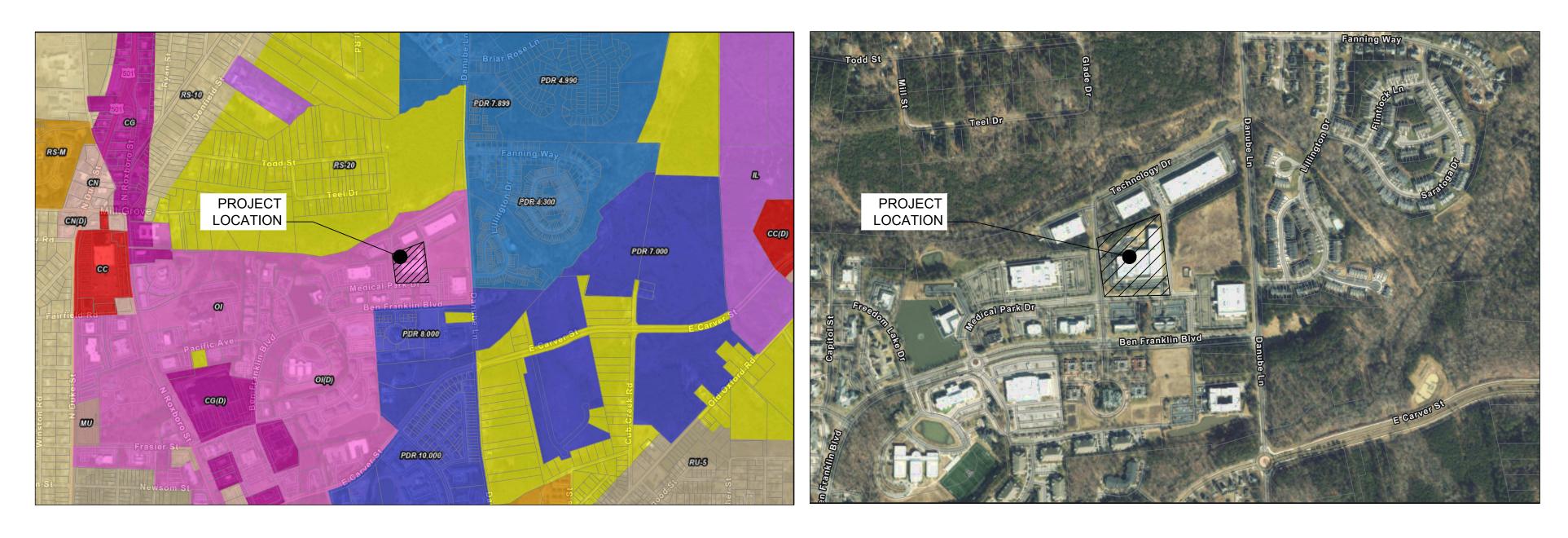
# 4204 ALMAC GENERATOR INSTALL LEVEL 2-SITE PLAN

OWNER ALMAC GROUP 4238 TECHNOLOGY DRIVE DURHAM, NC 27704





ZONING MAP SCALE 1"=1000'

1"=1000'-0"

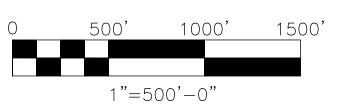
# CIVIL INDEX SHEET

APPLICANT ALMAC GROUP 4238 TECHNOLOGY DRIVE DURHAM, NC 27704

MEP ENGINEER: PRECIS ENGINEERING, INC. 20 SOUTH MAPLE STREET, SUITE 200 AMBLER, PA 19002



SITE LOCATION MAP SCALE 1"=500'

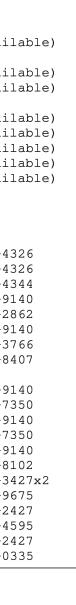


## NORTH CAROLINA 811 UTILITY INFORMATION

Tialat .	C222301195		
Members:	CZZZ301195		
	HOTO TOCATT	NG SERVICES, INC.	Op ID: (not avail
	CITY OF DUR		CD
		DRAIN ONLY LOCATE TO METER	(not avail
	CHARTER COM		(not avail
	DUKE ENERGY		DUKE
	DUKE UNIVER		(not avail
	GOOGLE FIBE		(not avail
		MMUNICATIONS	(not avail
	VERIZON (FO		(not avail
MCN07 =			(not avail
	DOMINION EN	ERGY	DENC
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Member	Туре	Contact	Phone
	- 2 1		
COD01	Field	PUBLIC WORKS	919-560-43
		1 – STEVE HARDEE	919-560-43
		2 – PWOC MAINTENANCE	919-560-43
CVI04*			800-778-91
	Damage	CAROLINAS REGIONAL OPERATIONS	855-272-28
DPC14*	Field	DISPATCH	800-778-91
	Damage	DUKE ENERGY REPRESENTATIVE	800-769-37
DUK02*	Field	BRIAN ARRINGTON	919-248-84
		Not available	
GFI04*		1 - USIC	800-778-91
		2 - VINCE MORGANO	650-793-73
		1 - USIC	800-778-91
		2 - VINCE MORGANO	650-793-73
GTE03*			800-778-91
		FRONTIER COMMUNICATIONS	800-921-81
MCI01	Field	NATIONAL FIBER SECURITY	800-289-34
		PERSONNEL	800-624-96
PSG02		1 - DOMINION ENERGY REP	877-776-24
		2 - DIANE WHITMAN	919-317-45
		1 - DOMINION ENERGY REP	
	Damage	2 - DOMINION CENTRAL DISPATCH	800-296-03

## CIVIL ENGINEER: MAINSTAY ENGINEERING GROUP, INC. 1750 WALTON ROAD, SUITE 200 BLUE BELL, PA 19422

	G NUMBER NOMENCLATURE						
	DRAWING NUMBER IN SERIES DRAWING SERIES DISCIPLINE	ISSUE DESCRIPTION	90% OWNER REVIEW	PERMIT ISSUE	PERMIT RE-ISSUE	PERMIT RE-ISSUE	PERMIT RE-ISSUE
DRAWING NUMBER	DRAWING TITLE	ISSUE DATE	08-24-2022	09-09-2022	09-27-2022	02-09-2023	03-29-2023
C0.01	CIVIL INDEX SHEET		Х	Х	Х	Х	X
C0.02	CIVIL NOTES SHEET			Х	Х	Х	X
C1.01	CIVIL EXISTING FEATURES & DEMOLITION PLAN		Х	Х	Х	Х	X
C1.11	CIVIL EROSION & SEDIMENT CONTROL PLAN			Х	Х	Х	X
C3.01	CIVIL SITE IMPROVEMENTS PLAN		Х	Х	Х	Х	X
C3.11	CIVIL GRADING PLAN		Х	Х	Х	Х	X
C7.01	CIVIL CONSTRUCTION & EROSION CONTROL DETAILS SHEET			Х	Х	Х	X
C0.81	SITE SURVEY (1)					X	X
C0.82	SITE SURVEY (2)					X	X



PROJECT SCOPE
GAS METER, GENERATOR & ASSOCIATED IMPROVEMENTS

ZONING:	OFFICE/
	INSTITUTIONAL
TIER:	LEVEL 2
PIN #:	0833-26-18-4588
PID #:	172228
RIVER BASIN:	LOWER NEUSE
USE:	OFFICE/INSTITUTIONAL
PARKING:	N/A
TREE DATA:	N/A
BUILDING (SF):	N/A

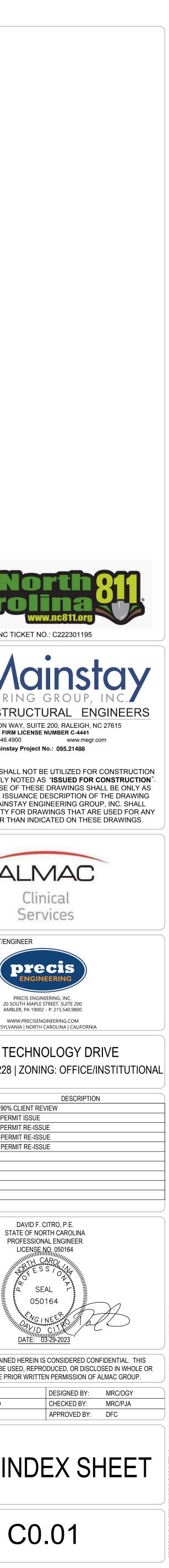
## **ISSUED FOR PERMIT**

## SITE PLAN

SITE PLAN APPROVED BY THE DURHAM CITY-COUNTY PLANNING DEPARTMENT

Planning Director or Designee and Date NULL OR VOID AFTER FOUR YEARS FROM DATE OF APPROVAL (For portions without an active building permit or Certificate of Compliance)

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#### GENERAL NOTES:

- 1. DATUM = NC GRID NAD 83'.
- 2. TOPOGRAPHIC INFORMATION SHOWN HEREON TAKEN FROM GROUND SURVEY PERFORMED BY SMITH SURVEYING SOLUTIONS, PLLC. DATE OF FIELD SURVEY = AUGUST 5, 2022.
- 3. LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE AND BASED ON VISIBLE EVIDENCE AND DRAWINGS PROVIDED TO THE SURVEYOR.. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.

#### MEANS AND METHODS/DEMOLITION

- 1. THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS NECESSARY TO COMPLETE THE DEMOLITION SCOPE. IF NECESSARY, THE CONTRACTOR SHALL ENGAGE A MEANS AND METHODS PROFESSIONAL ENGINEER TO PROVIDE MEANS AND METHODS ENGINEERING NECESSARY TO COMPLETE THE DEMOLITION AND CONSTRUCTION INDICATED IN THE CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL INSPECT, ASSESS AND VERIFY THE EXISTING CONDITIONS AND EXTENT OF WORK PRIOR TO COMMENCING DEMOLITION AND CONSTRUCTION.
- 3. THE CONTRACTOR SHALL COORDINATE WORK WITH MISCELLANEOUS TRADES. 4. THE CONTRACTOR SHALL COORDINATE CUTTING, WELDING AND RIGGING REQUIREMENTS WITH THE CONSTRUCTION MANAGER AND MEANS AND METHODS
- 5. CONSTRUCTION AND DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE FEDERAL, STATE AND LOCAL RULES, REGULATIONS, CODES AND
- 6. DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH OWNERS GUIDELINES AND SAFETY STANDARDS.

#### SITE CLEARING AND DEMOLITION NOTES

PROFESSIONAL ENGINEER.

LAWS

- PERFORM DEMOLITION WORK IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE REGULATIONS AND WITH AMERICAN NATIONAL STANDARD SAFETY REQUIREMENTS FOR DEMOLITION.
- INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES BEFORE SITE CLEARING.
- 3. CONTRACTOR SHALL CONTACT THE STATE ONE CALL (DIAL 811) TO VERIFY UNDERGROUND UTILITY LOCATIONS AT LEAST 3 DAYS PRIOR TO EXCAVATION.
- 4. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF UTILITIES INDICATED TO BE REMOVED.
- 5. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS.
- 6. DO NOT INTERFERE WITH THE USE OF ADJACENT SITE OR BUILDING AREAS.
- MAINTAIN UNINTERRUPTED UTILITY SERVICE, TO THE EXISTING STRUCTURES TO REMAIN, AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT. COORDINATE AND NOTIFY OWNER FOR ALL REQUIRED SHUTDOWNS FOR UTILITY CONNECTION AND RELOCATION WORK.
- 8. DEMOLISH OR REMOVE WORK IN A MANNER WHICH ALLOWS FOR THE INSTALLATION OF NEW ADJACENT WORK WITHOUT DAMAGING EDGE CONDITIONS OF EXISTING SITE ELEMENTS.
- 9. DEMOLITION OF UTILITIES NOTED INCLUDES THE REMOVAL OF ALL PIPE, STRUCTURES, FITTINGS, VALVES, ENCASEMENTS, ETC.
- 10. DISPOSE OF ALL UNSUITABLE MATERIAL AND DEBRIS RESULTING FROM THE WORK OFF SITE AND LEAVE AREAS CLEAN AND READY FOR NEW WORK.
- 11. PROTECT AND MAINTAIN BENCHMARKS AND SURVEY CONTROL POINTS FROM DISTURBANCE.
- 12. PROTECT SITE IMPROVEMENTS TO REMAIN FROM DAMAGE. RESTORE DAMAGED IMPROVEMENTS TO CONDITION EXISTING BEFORE START OF SITE CLEARING.
- 13. PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO ADJACENT WALKWAYS. PAVEMENT, TRAILERS, BUILDINGS, ETC. AND OTHER SITE ELEMENTS TO REMAIN.
- 14. PROTECT REMAINING TREES AND SHRUBS FROM DAMAGE AND MAINTAIN VEGETATION. RESTORE DAMAGED VEGETATION. REPLACE DAMAGED TREES THAT CANNOT BE RESTORED TO FULL GROWTH, AS DETERMINED BY A QUALIFIED TREE EXPERT.
- 15. DO NOT STORE MATERIALS OR EQUIPMENT OR PERMIT EXCAVATION WITHIN DRIP LINE OF EXISTING TREES.
- 16. REMOVE OBSTRUCTIONS, TREES, SHRUBS, GRASS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION. REMOVAL INCLUDES DIGGING OUT STUMPS AND OBSTRUCTIONS AND GRUBBING ROOTS.
- 17. STRIP TOPSOIL STOCKPILE TOPSOIL THAT WILL BE REUSED IN THE WORK. 18. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED
- AND AS NECESSARY TO FACILITATE NEW CONSTRUCTION.
- 19. REMOVE SLABS, PAVING, CURBS, GUTTERS, AND AGGREGATE BASE AS INDICATED.
- 20. IN AREAS NOT TO BE FURTHER EXCAVATED, FILL DEPRESSIONS RESULTING FROM SITE CLEARING. PLACE AND COMPACT SATISFACTORY SOIL MATERIALS IN 6-INCH THICK LAYERS TO DENSITY OF SURROUNDING ORIGINAL GROUND.
- 21. DISPOSE OF WASTE MATERIALS, INCLUDING TRASH, DEBRIS, AND EXCESS TOPSOIL, OFF OWNER'S PROPERTY. BURNING WASTE MATERIALS ON-SITE IS NOT PERMITTED.

TEMPORARY STABILIZATION AND PERMANENT STABILIZATION:

- 1. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.
- 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES 4:1 OR STEEPER.
- 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- 4. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs MUST BE MAINTAINED PROPERLY, MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGARDING, RESEEDING, REMULCHING, AND RENETTING, MUST BE DONE IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
- 5. SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND IMMEDIATELY STABILIZED. OR PLACED IN TOPSOIL STOCKPILES.
- 6. THE OPERATOR SHALL REMOVE FROM THIS SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THIS SITE.
- 7. PROVIDE EROSION CONTROL BLANKET (ECB) ON ALL SWALES AND ALL SEDIMENT BASIN AND TRAP BERMS. THE CONSERVATION DISTRICT REQUIRES THE USE OF ECB FOR SWALE STABILIZATION AND FOR SEDIMENT BASIN AND TRAPS AND BERM STABILIZATION. THE DISTRICT MAY WAIVE THIS REQUIREMENT FOR SEDIMENT BASIN AND TRAPS AND BERMS DURING SEED GERMINATION PERIODS.
- 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 ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

#### GENERAL EROSION CONTROL NOTES

- 1. ALL WATER PUMPED OR DRAINED FROM THE WORK AREA SHALL BE DISPOSED OF IN A SUITABLE MANNER WITHOUT UNDUE INTERFERENCE WITH OTHER WORK OR DAMAGE TO SURFACES AND PROPERTY.
- TOPSOIL STOCKPILE AREAS, STAGING AREAS AND DISTURBED PERVIOUS PORTIONS OF THE PROJECT AREA WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASES FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA.
- PROPOSED GRADES WHICH HAVE SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL BE STABILIZED WITH AN APPROVED EROSION CONTROL FABRIC.
- 4. SEDIMENT CONTROL FENCING SHALL BE INSTALLED AROUND THE PROJECT AREA AS DEPICTED ON THE PLANS SHEETS.
- 5. SILT LADEN WATER OR WATER CONTAMINATED BY ACID SOIL SHALL NOT BE DISCHARGED DIRECTLY INTO STORM SEWERS, SURFACE WATERS, STREAMS OR CROSSINGS OF WETLANDS. CARE SHALL BE TAKEN NOT TO DAMAGE OR KILL VEGETATION BY EXCESSIVE WATERING OR BY SILT ACCUMULATIONS IN THE DISCHARGE AREA. SETTLEMENT BASINS SHALL BE EMPLOYED WHERE NECESSARY TO REMOVE SILT AND TREAT ACID WATER TO THE AMBIENT PH OF THE RECEIVING WATERS.
- SILTATION DEPOSITS RESULTING FROM THE DISCHARGE OF WATER FROM THE PROJECT SITE SHALL BE REMOVED TO RESTORE PROFILES AND CONDITIONS TO THAT EXISTING PRIOR TO COMMENCEMENT OF THE WORK.
- 7. CONTRACTOR SHALL DEVOTE PARTICULAR ATTENTION TO ALL DRAINAGE FACILITIES, KEEPING THEM FULLY OPERATIVE AT ALL TIMES.
- 8. DISTURBED AREAS AND STOCKPILED MATERIALS, WHICH WILL NOT BE RE-DISTURBED WITHIN 21 DAYS, SHALL BE STABILIZED WITHIN 14 DAYS BY USE OF MULCHING, SEEDING, GEOTEXTILE FABRIC, OR OTHER APPROVED METHODS.
- 9. ALL SLOPES 3:1 OR GREATER AS WELL AS THOSE DESIGNATED SHALL RECEIVE EROSION CONTROL FABRIC AS SPECIFIED.
- 10. PROVIDE INLET PROTECTION AS DETAILED AT ALL CATCH BASIN GRATES TO PREVENT THE ACCUMULATION OF SILT IN THE BASINS DURING CONSTRUCTION. CLEAN AND MAINTAIN STORM STRUCTURE SUMPS AT REGULAR INTERVALS AND AT THE COMPLETION OF CONSTRUCTION.
- 11. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE NCDEP EROSION AND SEDIMENT CONTROL MANUAL.
- 12. EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED IN ADVANCE OF ANY UPGRADE DISTURBANCE/CONSTRUCTION ACTIVITY.
- 13. A CONSTRUCTION ENTRANCE WILL NOT BE UTILIZED AS THE EQUIPMENT NEEDED TO PERFORM THE DEMOLITION ACTIVITIES WILL REMAIN ON THE ADJACENT ASPHALT SURFACES AND PERFORM THEIR WORK FROM THOSE LOCATIONS. DUMP TRUCKS HAULING MATERIALS TO AND FROM THE CONSTRUCTION PROJECT AREA SHALL BE COVERED WITH A TARPAULIN TO REDUCE DUST. ANY SEDIMENT AND DEBRIS TRACKED FROM THE WORK AREA ALONG PUBLIC ROADWAYS SHALL BE IMMEDIATELY REMOVED WITH A STREET SWEEPER OR EQUIVALENT SWEEPING METHOD. FURTHER SWEEPING OF STREETS ADJACENT TO DISTURBED AREAS SHALL BE PERFORMED PRIOR TO THE END OF EACH WORK DAY (AT A MINIMUM) WHEN TRACKING OF SEDIMENT IS OCCURRING.
- 14. DUST SHALL BE CONTROLLED ON DISTURBED AREAS SUBJECT TO SURFACE DUST MOVEMENT AND BLOWING.
- 15. PERIMETER CONTROLS SHALL BE INSTALLED TO CONTAIN RUNOFF ALONG THE DOWNSTREAM BOUNDARY OF THE SITE. SILT FENCE SHALL BE INSPECTED FOR UNDERMINING, DETERIORATION AND BUILDUP OF SEDIMENT. REMOVE SEDIMENT FROM SILT FENCING WHEN IT BECOMES ONE-HALF FOOT DEEP OR GREATER. SILT FENCING SHALL BE INSPECTED FOR TEARS AS WELL AS THE INTEGRITY OF ATTACHMENT TO THE FENCE POSTS. POSTS SHALL BE SECURELY PLACED IN THE GROUND.
- 16. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCE (WHEN ONE IS UTILIZED).
- 17. SEED AND MULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING THE COMPLETION OF GRADING OPERATIONS.
- 18. SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AND FOLLOWING ANY RAIN STORM EVENT, OR AS PER THE CONTROL DETAIL DICTATES IF INSPECTIONS ARE REQUIRE MORE FREQUENTLY. CLEAN OUT, REPAIRS, REPLACEMENT, RE-SEEDING AND RE-MULCHING MUST BE PERFORMED IMMEDIATELY.
- 19. EXCAVATED STOCKPILES SHALL BE PROTECTED, STABILIZED AND PLACED IN A LOCATION AWAY FROM ANY STORM DRAINS AND BODIES OF WATER.
- 20. ALL DEWATERING ACTIVITIES SHALL BE DONE IN ACCORDANCE WITH NCDEP STANDARDS. 21. ANY SPOIL MATERIALS HAULED TO AN OFFSITE LOCATION WILL NEED TO BE
- PERMITTED BY THE REQUIRED AGENCY WHICH MAY INCLUDE NCDEP AND THE COUNTY CONSERVATION DISTRICT. 22. ANY FILL MATERIALS HAULED ON SITE FROM ON OFFSITE LOCATION SHALL BE
- CLEAN FILL AS DEFINED BY NCDEP AND THE SOIL CONSERVATION DISTRICT REQUIREMENTS.
- 23. UNTIL SITE IS STABILIZED ALL EROSION AND SEDIMENT CONTROLS MUST BE MAINTAINED PROPERLY.
- 24. PRIOR TO DEMOBILIZATION ALL CONSTRUCTION WASTE GENERATED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REMOVED FROM THE SITE AND TAKEN TO A PERMITTED DISPOSAL OR RECYCLING FACILITY.
- 25. SHOULD ANY MEASURES CONTAINED WITHIN THIS PLAN PROVE INCAPABLE OF ADEQUATELY REMOVING SEDIMENT FROM ON-SITE FLOWS PRIOR TO DISCHARGE, OR OF STABILIZING THE SURFACES INVOLVED, ADDITIONAL MEASURES MUST BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR TO ELIMINATE ALL SUCH PROBI FMS
- 26. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED. AREAS DISTURBED AS A RESULT OF SUCH REMOVALS SHALL BE STABILIZED. THE CRITERIA TO BE USED FOR SUCCESSFUL PERMANENT VEGETATION SHALL BE AS FOLLOWS: NOT LESS THAN 80% GROUND COVER PER SQUARE YARD NOT LESS THAN 90% GROUND COVER PER CRITICAL SQUARE YARD.
- 27. VISUAL INSPECTION OF VEGETATION COVER WILL BE MADE 4 TO 6 WEEKS AFTER SEEDING AND GERMINATION. AREAS DEEMED TO HAVE INADEQUATE COVER SHALL BE RE-SEEDED.
- 28. UPON COMPLETION OF DEMOLITION WORK AND ACCEPTANCE OF SITE STABILIZATION BY THE OWNER, THE RESPONSIBILITY FOR KEEPING CONTROL OF PERMANENT FACILITIES (SUCH AS SEEDING AND MULCHING) IN REPAIR WILL SHIFT FROM THE CONTRACTOR TO THE OWNER. PERMANENT CONTROL FACILITIES SHALL BE INSPECTED ON A PERIODIC BASIS (NOT TO EXCEED QUARTERLY). REPAIR OF FACILITIES AS REQUIRED SHALL BE ACCOMPLISHED WITHIN 1 WEEK.

#### EXCAVATION AND BACKFILL NOTES

- 1. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT THE NORTH CAROLINA ONE CALL SYSTEM TO FIELD VERIFY ALL LOCATIONS OF UNDERGROUND UTILITIES. ALL UTILITIES AND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. DIAL 811 FOR ACCESS TO ALL ONE CALL AGENCIES.
- 2. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. ALL BACKFILLING OPERATIONS AND TESTING SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER.
- 3. THE CONTRACTOR SHALL PROVIDE LABORATORY COMPACTION TESTS FOR ALL BEDDING AND BACKFILL MATERIAL. EXCAVATION SPOILS MAY BE USED AS BACKFILL IF PROVEN TO BE SUITABLE WITH RESPECT TO COMPOSITION AND COMPACTION REQUIREMENTS.
- 4. ALL BEDDING AND BACKFILL MATERIAL SHALL BE PLACED IN 6" LOOSE LIFTS AND COMPACTED BY MECHANICAL MEANS TO 95% MAXIMUM UNIT WEIGHT IN ACCORDANCE WITH ASTM D 1557.
- 5. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED TESTING AGENCY TO TEST COMPACTION OF BACKFILL MATERIAL IN ACCORDANCE WITH ASTM D 1556, D 2167, D 2922 AND D 2937 AS APPLICABLE. PERFORM TESTS AT THE FOLLOWING LOCATIONS AND FREQUENCIES: A. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER. AL LEAST ONE TEST FOR EACH
- 1.000 SQ FT OF AREA. BUT IN NO CASE FEWER THAN THREE TESTS. 6. THE CONTRACTOR SHALL REMOVE AND REPLACE MATERIAL THAT FAILS TO MEET
- COMPACTION TEST CRITERIA. 7. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A UNDERGROUND UTILITY
- LOCATION SERVICE TO SURVEY THE ENTIRE PROJECT AREA PRIOR TO EXCAVATION TO DETERMINE ANY UNFORESEEN CONFLICTS WITH EXISTING UTILITIES. ANY CONFLICTS ENCOUNTERED SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
- 8. ANY TRENCH, EXCAVATION OR UNDERGROUND STRUCTURE THAT IS TO BE LEFT UNCOVERED FOR MORE THAN 8 HOURS SHALL BE PROTECTED WITH BARRICADES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) OR OSHA STANDARDS.

DURHAM COUNTY, NC GENERAL APPROVED EROSION & SEDIMENT CONTROL NOTES:

- 1. MORE THAN 12,000 SQ. FT. IS DISTURBED A LAND-DISTURBING PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY LAND-DISTURBING ACTIVITIES.
- 2. ORE THAN 20,000 SQ. FT. IS DISTURBED , A SEDIMENTATION AND EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED PRIOR TO THE ISSUANCE OF A LAND-DISTURBANCE PERMIT
- 3. E PROTECTION IS REQUIRED BY THE CITY/ COUNTY PLANNING DEPARTMENT, TREE PROTECTION CERTIFICATION MUST BE SUBMITTED TO THE DURHAM COUNTY EROSION CONTROL DIVISION, AND TREE PROTECTION INSPECTION COMPLETED PRIOR TO LAND-DISTURBANCE PERMIT ISSUANCE.
- 4. AN OFFSITE SPOIL OR BORROW SITE IS UTILIZED, THE DISTURBED AREA MUST BE INCLUDED IN THE LAND DISTURBANCE PLAN AND PERMIT UNLESS ALREADY PERMITTED. IF THE DISTURBED AREA EXCEEDS FIVE ACRES, AN IMPROVEMENT SECURITY WILL BE REQUIRED PRIOR TO LAND-DISTURBING PERMIT ISSUANCE.

### GRADING CONSTRUCTION NOTES

- 1. PROPOSED GRADES SHALL BE THE SAME AS EXISTING GRADES UNLESS OTHERWISE
- INDICATED 2. PREPARE FINISHED SUBGRADES AND SURFACES PER EARTHWORK, SEEDING, STABILIZATION, PAVING AND OTHER APPLICABLE NOTES & DETAILS 3. HANDICAP RAMPS SHALL BE PROVIDED AT ALL SIDEWALK INTERSECTIONS AT DRIVEWAYS,
- PARKING AREAS, ETC., AND SHALL COMPLY WITH A.D.A. REQUIREMENTS. 4. NO DRIVEWAY/CURB APRON SLOPE SHALL BE GREATER THAN 12:1 (±8%)
- 5. NO PARKING LOT SLOPE SHALL BE GREATER THAN 17:1 (±6%) 6. NO YARD SLOPE SHALL BE GREATER THAN 5:1 (20%) OR PER THE MAXIMUM PERMITTED
- GRADE PERMITTED BY MUNICIPAL STANDARDS. 7. SIDEWALK SLOPE/CROSS-SLOPES, ADA RAMP REQUIREMENTS AND CURB REVEALS SHALL BE
- AS SHOWN ON THE APPLICABLE DETAILS. 8. MINIMUM SLOPE FOR ALL FINISHED PAVEMENTS SHALL BE 0.05 FT/FT (½%). ALL LOW SPOTS TO OCCUR OFFSITE OR AT AN EXISTING DRAINAGE STRUCTURE.

### SITE CONCRETE NOTES

- 1. CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ACI BUILDING CODE (ACI 318), THE ACI DETAILING MANUAL (ACI 315), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
- 2. CONCRETE SHALL BE READY MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS.
- 3. CONCRETE EXPOSED TO FREEZE-THAW CYCLES (WEATHER) SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE TO PRODUCE AN AIR-ENTRAINMENT OF 5%-7%. OMIT AIR-ENTRAINMENT FOR CONCRETE TO RECEIVE A TROWELED FINISH.
- 4. CONCRETE MIX DESIGNS AND ASSOCIATED PRODUCT DATA, IN ACCORDANCE WITH ACI 301, SHALL BE SUBMITTED FOR REVIEW PRIOR TO PLACEMENT. SUBMITTAL SHALL INCLUDE COMPRESSIVE STRENGTH TEST RESULTS, MIX PROPORTIONS AND PRODUCT DATA. PRODUCT DATA SHALL INCLUDE CEMENT MILL TEST CERTIFICATE, AGGREGATE GRADATION RESULTS, AND ADMIXTURE MANUFACTURER DATA SHEETS.
- REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A1064 (FORMERLY ASTM A185).
- 6. LAP BARS A MINIMUM 48 DIAMETERS. LAP WELDED WIRE FABRIC A MINIMUM OF 6 INCHES. 7. REINFORCING SHOP DRAWINGS, IN CONFORMANCE WITH ACI 315 AND ACI SP-66, INCLUDING BAR AND WELDED WIRE FABRIC REINFORCING SHALL BE SUBMITTED FOR REVIEW PRIOR TO PI ACEMENT
- 8. CONSTRUCTION JOINTS IN SLABS SHALL BE AT MID-SPAN AND KEY-JOINTED WITH REINFORCING CONTINUOUS ACROSS JOINT.
- 9. CONCRETE CONTRACTOR SHALL COORDINATE EXTERIOR CONCRETE FINISHES WITH
- 10. SEE SPECIFICATION SECTION 03300 CAST-IN-PLACE CONCRETE FOR ADDITIONAL INFORMATION.

### SEEDING NOTES:

CONCRETE SPECIFICATIONS.

- 1. EXCAVATE OR SCARIFY AREAS SUBJECT TO COMPACTION BY CONSTRUCTION ACTIVITIES. FINISH GRADE AND RAKE ALL AREAS TO BE TOPSOIL/SEEDED. REMOVE ALL DEBRIS, STONES AND CLODS LARGER THAN 1" TO A DEPTH OF SIX (6") INCHES. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING FROM THE SITE ALL DEBRIS AND STONES. AT THE SOLE DISCRETION OF THE OWNER, THE CONTRACTOR MAY DISPOSE OF STONE AND NATURAL DEBRIS ON SITE.
- 2. TOPSOIL SHALL BE PLACED TO A MINIMUM OF 4 INCHES IN THICKNESS AND PROPERLY PREPARED FOR SEEDING. ALL AREAS TO BE SEEDED SHALL BE REASONABLY FREE FROM WEEDS TALLER THAN 3 INCHES.
- 3. GRASS AREAS ARE TO BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING EARTH MOVING PROCEDURES. SEEDING SHALL BE ACCOMPLISHED AS WEATHER PERMITS. 4. HAY OR STRAW MULCH MUST BE APPLIED AT AFTER SEEDING.
- 5. ESTABLISH PERMANENT SEEDING AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETE. ESTABLISHED GRASS AREA SHALL BE TURF GRASS AT A HEIGHT OF 6 INCHES CONSISTING OF A MINIMUM OF 100 PLANTS PER SQUARE FOOT THROUGHOUT THE SEEDED AREAS. WHEN TURF GRASS HAS ATTAINED THIS HEIGHT, IT SHALL BE MOWED TO A HEIGHT OF 3 INCHES.
- 6. GRASS SEED: ALL SEED SHALL BE FRESH, NEW CROP SEED SHALL BE LABELED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF AGRICULTURE'S RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT IN EFFECT ON THE DATE OF INVITATION FOR BIDS. ALL SEED SHALL BE FURNISHED IN SCALED STANDARD CONTAINERS, BEARING THE WARRANTY OF THE SUPPLIER AND CERTIFYING THE KIND, PERCENT BY WEIGHT, PURITY, GERMINATION AND WEED SEED. SPREAD AT A RATE OF 175 POUNDS PER ACRE MINIMUM.

### GRASS SEED PERCENTAGE TABLE

LAWN SEED MIX (PENNDOT FORMULA B):				
(FOR DRY-MOIST, WELL DRAINED SOILS & FUI	LL SUN-PAI	RTIAL SHA	ADE)	
NAME PROPORTION MIN L	IVE <u>MININ</u>	/UM %	,	
<u>BY WEIGHT</u> <u>% PURITY</u>	<u>GERMINA</u>	TION		
	50%	97%	80%	
PERENNIAL RYEGRASS (LOLIUM PERENNE)	20%	98%	90%	
	30%	98%	85%	
*MULTIPLE VARIETIES, NO ONE TO EXCEED 25	5% OF PRC	PORTION	IED MIXTUI	R

SEEDING SEASON: MARCH 15 TO JUNE 1 OR AUGUST 1 TO OCTOBER 15.

- 7. INOCULATING LEGUMES: INOCULATE LEGUMINOUS SEED, SUCH AS CROWNVETCH AND BIRDSFOOT TREFOIL, WITH PROPER CULTURES, ACCORDING TO THE MANUFACTURERS DIRECTIONS. PROTECT INOCULATED SEED FROM PROLONGED EXPOSURE TO SUNLIGHT BEFORE SOWING. REINOCULATE SEED NOT SOWN WITHIN 24 HOURS. IF USING HYDRAULIC SEEDERS, USE INOCULANT FOUR TIMES THE MANUFACTURER'S RECOMMENDED RATE. IF INOCULATED SEED IS HELD IN A SLURRY WITH FERTILIZERS FOR MORE THAN 1 HOUR, REINOCULATE OR APPLY LEGUMES SEPARATELY.
- TEMPORARY GRASS SEED: TEMPORARY GRASS SEED SHALL BE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) HAVING A MINIMUM PERCENT PURITY OF 98% AND A MINIMUM GERMINATION OF 90%.
- 9. LIMESTONE: LIMESTONE SHALL BE APPLIED AT A RATE OF 800 POUNDS PER 1000 SQUARE YARDS DURING OR PRECEDING SEEDING. ALL LIMESTONE SHALL BE AGRICULTURAL LIMESTONE CONFORMING TO THE REQUIREMENTS OF THE AGRICULTURAL LIMING MATERIALS ACT OF 1978, P.L. 15, NO. 9, AS AMENDED.
- 10. FERTILIZER: FERTILIZER SHALL BE APPLIED AT A RATE OF 320 POUNDS PER ACRE DURING OR PRECEDING SEEDING. WHEN THE GRASS SEEDING GROWTH HAS ATTAINED A HEIGHT OF 6 INCHES, THE SPECIFIED AREAS DESIGNATED HEREIN SHALL BE MOWED TO A HEIGHT 3 INCHES. FOLLOWING MOWING, ALL SEEDED GRASS AREAS SHALL RECEIVE A UNIFORM APPLICATION OF FERTILIZER HYDRAULICALLY PLACED AT A RATE OF 320 POUNDS PER ACRE. FERTILIZER SHALL BE COMMERCIAL GRADE GRANULAR 10-20-20 FERTILIZER. THE FERTILIZER SHALL BE DELIVERED TO THE SITE IN NEW, CLEAN, SEALED CONTAINERS WHICH BEAR A LABEL FULLY DESCRIBING THE CONTENTS, THE CHEMICAL ANALYSIS OF EACH NUTRIENT, THE FERTILIZER GRADE, THE NET BULK. THE BRAND AND THE NAME AND ADDRESS OF THE MANUFACTURER. THE FERTILIZER AND LABELS SHALL CONFORM TO ALL EXISTING STATE AND FEDERAL REGULATIONS.
- 11. MULCH: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUITABLE MULCH TO PROTECT THE NEWLY SEEDED AREAS FROM THE AFFECTS OF DRYING, FROST OR OTHER ADVERSE WEATHER CONDITIONS PRIOR TO GERMINATION, ALL MULCH SHALL BE HAY WHICH IS FREE OF WEEDS AND SEEDS, NOT MOLDY OR ROTTEN, AND SHALL BE APPLIED IMMEDIATELY TO ALL SEEDED AREAS AT A RATE OF 1,200 POUNDS PER 1,000 SQ YARDS (3.0 TONS PER ACRE).
- 12. ANCHORING: MULCH SHALL BE ANCHORED USING LIGHTWEIGHT FIBER OR PAPER NETS, TO BE STAPLED OVER MULCH ACCORDING TO MANUFACTURERS SPECIFICATIONS.
- 13. GUARANTEE: ALL LAWN AREAS SHALL BE GUARANTEED UNTIL THE PROJECT IS ACCEPTED BY HE OWNER. THE LAWN MUST BE IN A VIGOROUS. HEALTHY CONDITION AT THE END OF THE GUARANTEE PERIOD. ANY AREAS OF THE LAWN NOT IN EXCELLENT CONDITION WILL BE OVER-SEEDED BY THE CONTRACTOR WITH THE SPECIFIED SEED MIX.

#### SEQUENCE OF CONSTRUCTION

- 1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS
- 2. FLAG THE WORK LIMITS AND MARK AREAS FOR PROTECTION.
- 3. HOLD PRECONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING
- CONSTRUCTION.
- 4. CLEARING AND GRUBBING AS NECESSARY FOR THE INSTALLATION OF PERIMETER CONTROLS. CONSTRUCTION AND STABILIZATION OF PERIMETER CONTROLS.
- 5. REMAINING CLEARING AND GRUBBING WITHIN INSTALLED PERIMETER CONTROLS.
- 6. ROAD GRADING.
- 7. GRADING FOR THE REMAINDER OF THE SITE. 8. UTILITY INSTALLATION AND CONNECTIONS TO EXISTING STRUCTURE.
- CONSTRUCTION OF BUILDINGS, ROADS AND OTHER CONSTRUCTION.
- 10. FINAL GRADING, LANDSCAPING AND STABILIZATION.
- 11. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER
- RAINFALL EVENTS. NEEDED REPAIRS WILL BE MADE IMMEDIATELY. 12. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT

## VEGETATION ON THE DISTURBED AREAS.

## UNIT MASONRY:

- TESTING OF MASONRY AND MASONRY REBAR PER THE FOLLOWING MINIMUM REQUIREMENTS: 1. INSPECT REINFORCEMENT PLACEMENT AND GROUTING FOR COMPLIANCE WITH THE
- CONTRACT DOCUMENTS AND ENGINEER REVIEWED SUBMITTAL DRAWINGS. 2. TEST ONE MASONRY UNIT ACCORDING TO ASTM C140 FOR EACH SIZE AND STRENGTH OF
- CMU INDICATED. TEST THREE SAMPLES FROM MATERIALS DELIVERED TO THE SITE.
- MORTAR INDICATED. PREPARE FOUR (4) SAMPLES AND TEST TWO (2) AT 7 DAYS AND TWO (2) AT 28 DAYS.
- 4. TEST GROUT COMPRESSIVE STRENGTH ACCORDING TO ASTM C1019 FOR EACH STRENGTH OF GROUT INDICATED. PREPARE FOUR SAMPLES AND TEST TWO (2) AT 7 DAYS AND TWO (2) AT 28 DAYS.

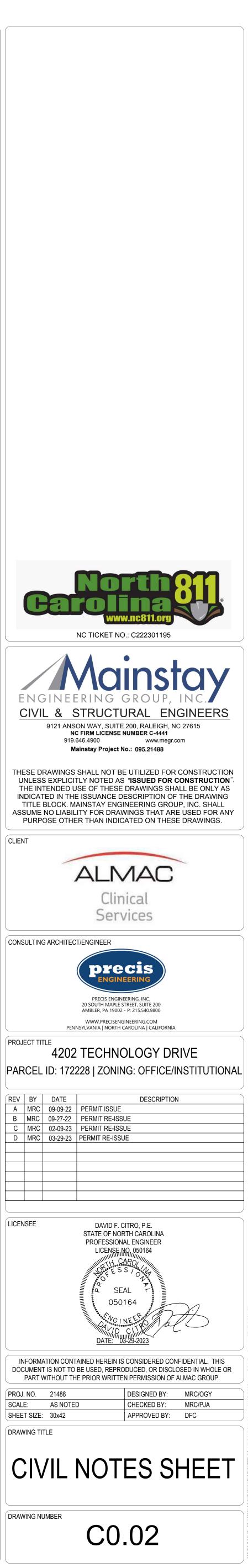
THE INDEPENDENT TESTING AND INSPECTION AGENCY SHALL PERFORM INSPECTIONS AND

3. TEST MORTAR MIX COMPRESSIVE STRENGTH ACCORDING TO ASTM C780 FOR EACH TYPE OF

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PROJ. NO. 21488 SCALE: AS NOTED SHEET SIZE: 30x42 DRAWING TITLE

DRAWING NUMBER

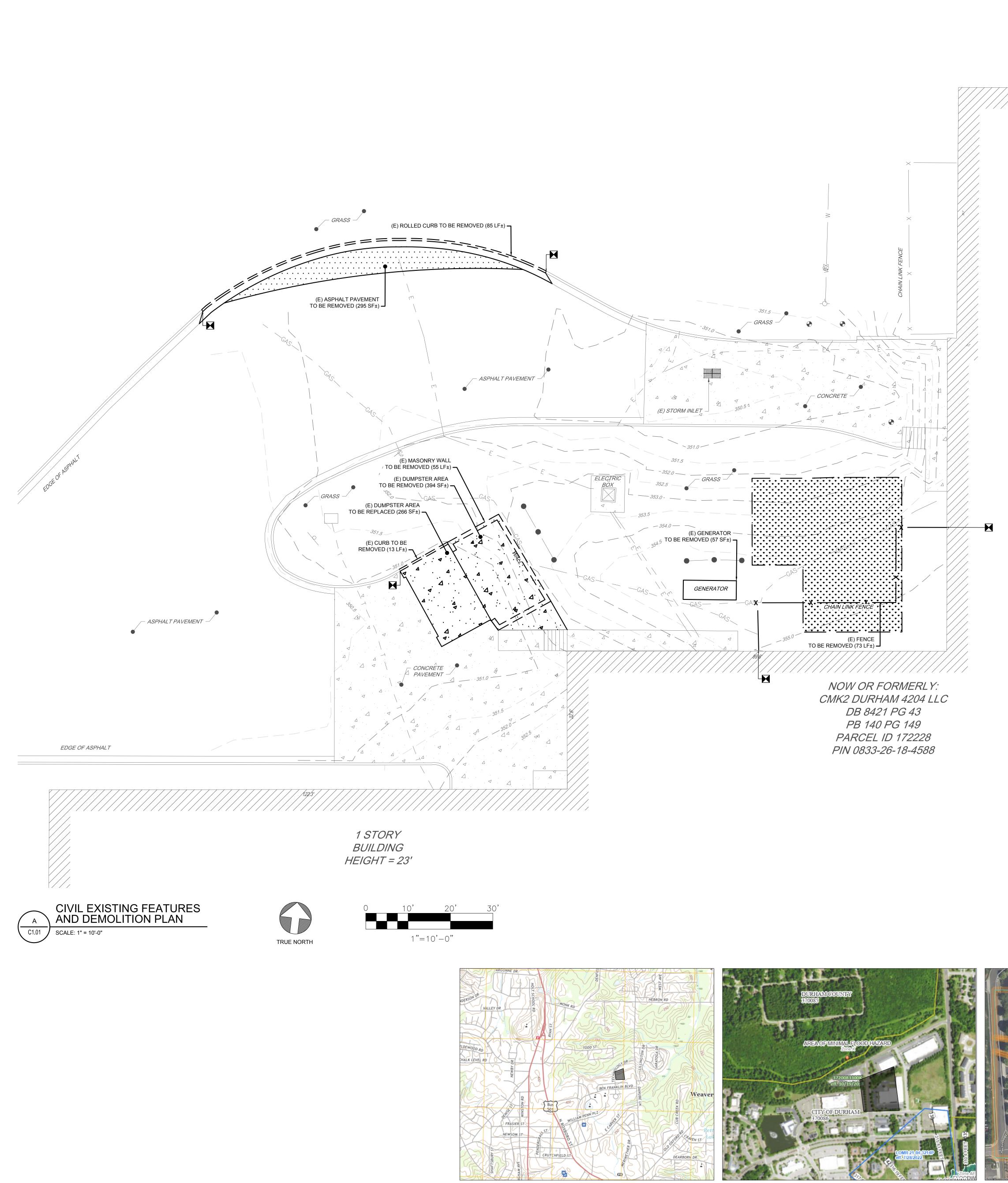


919.646.4900

CLIENT

PROJECT TITLE

REV BY DATE



USGS MAP C1.01 SCALE: 1" = 2,000'

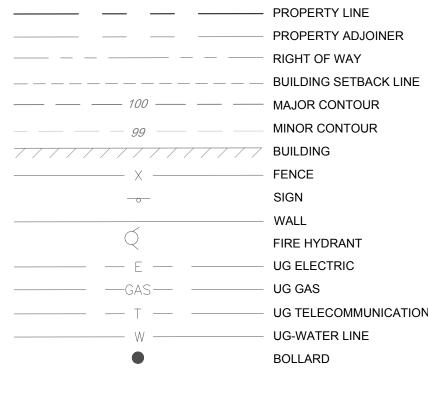


FEMA MAP C1.01 SCALE: N.T.S

D SOILS MAP C1.01 SCALE: N.T.S



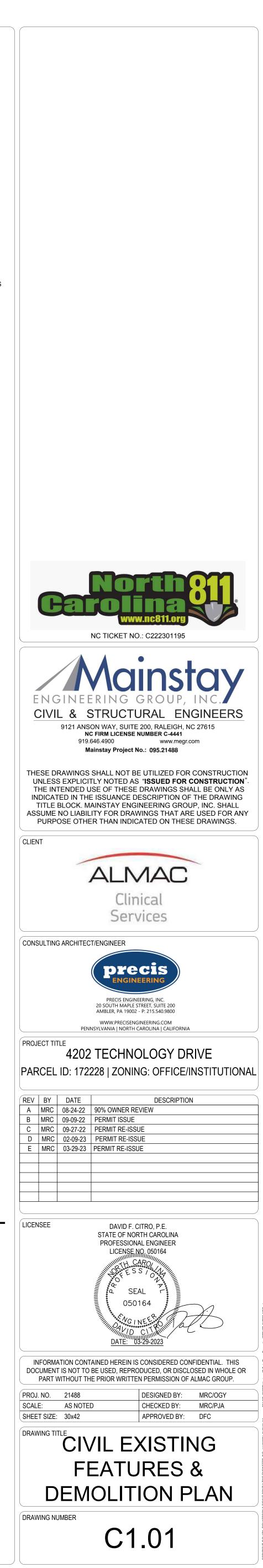
#### EXISTING FEATURES LEGEND

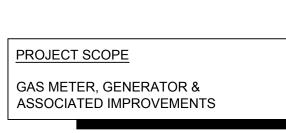


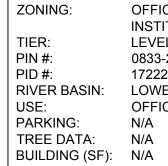
- PROPERTY ADJOINER MINOR CONTOUR FENCE SIGN WALL FIRE HYDRANT - UG ELECTRIC – UG GAS - UG TELECOMMUNICATIONS UG-WATER LINE BOLLARD

#### DEMOLITION LEGEND

	CURB
	WALL
x	FENCE
	LIMITS OF DEMOLITION
· · · · · · · · · · · · · · · · · · ·	ASPHALT PAVEMENT
	LAWN
	CONCRETE

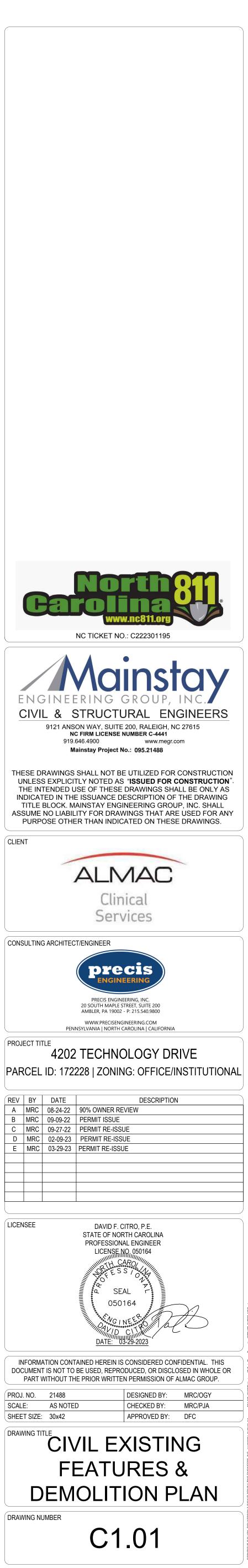






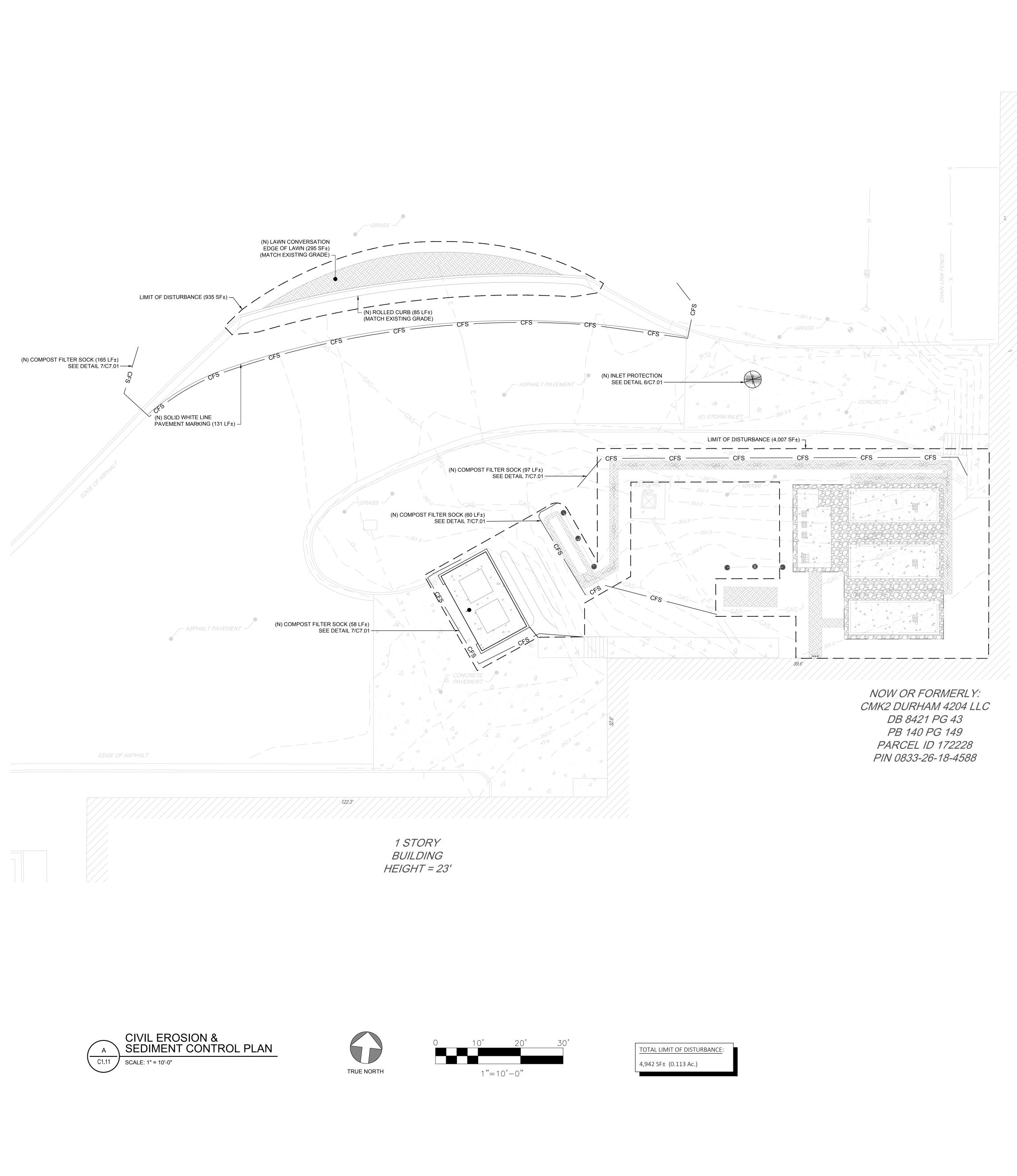
OFFICE/ INSTITUTIONAL TIER: LEVEL 2 PIN #: 0833-26-18-4588 PID #: 172228 RIVER BASIN: LOWER NEUSE USE: OFFICE/INSTITUT PARKING: N/A OFFICE/INSTITUTIONAL

## **ISSUED FOR PERMIT**



PLANNING CASE NUMBER: D2300040



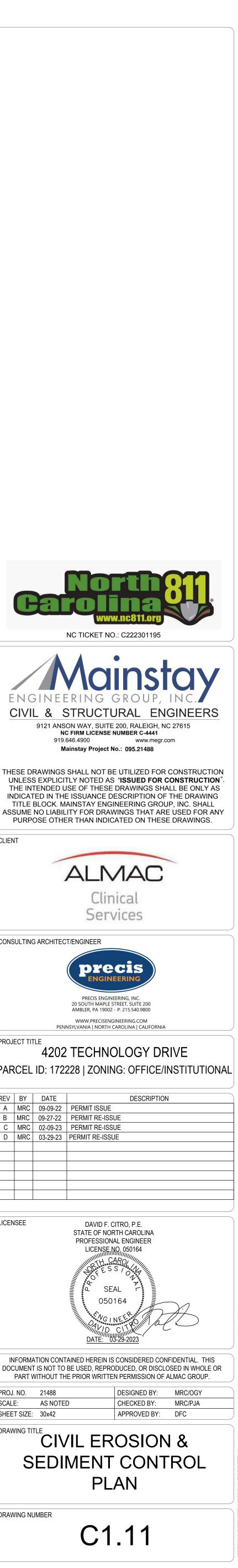


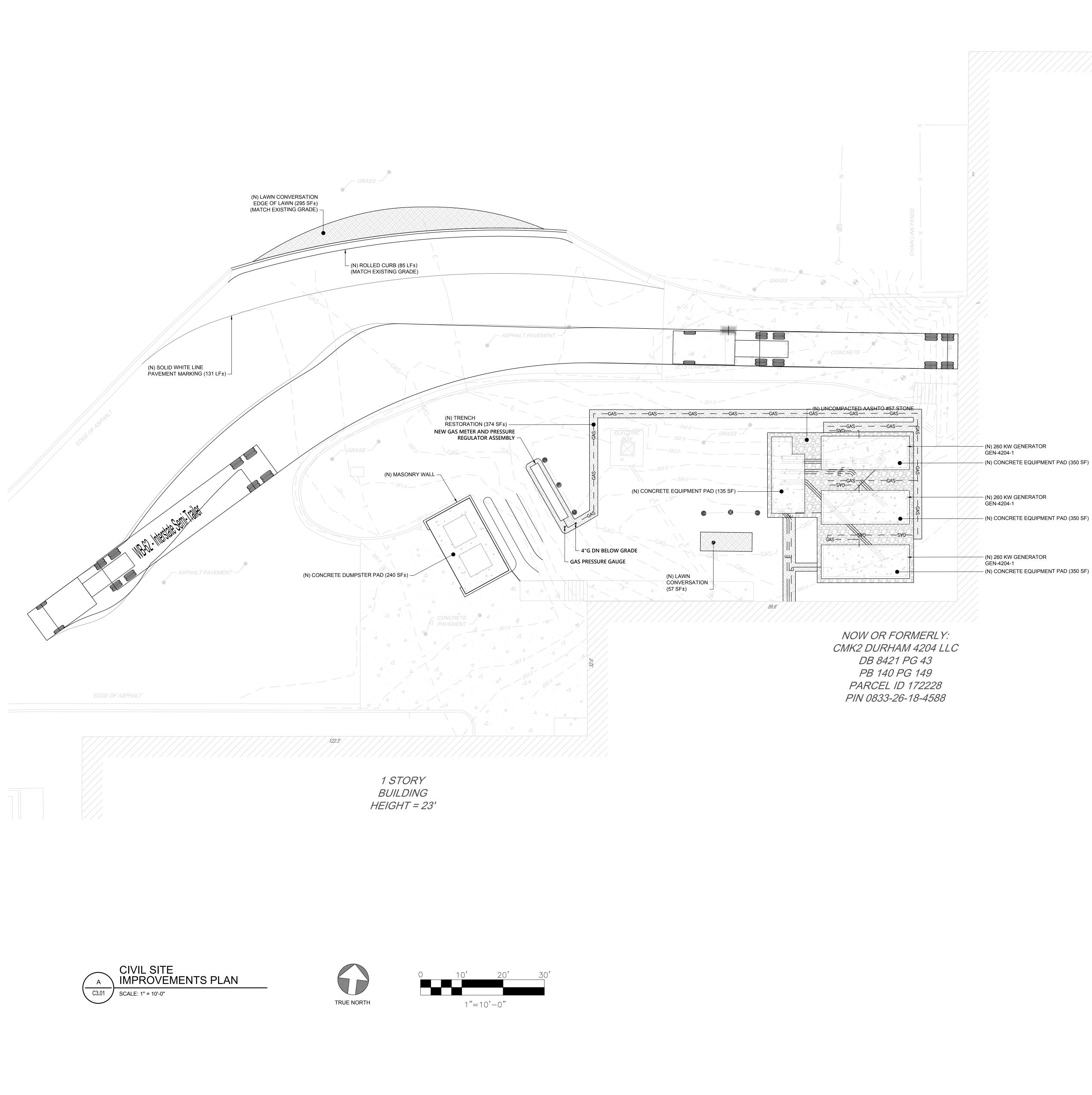
PROPOSED EROSION CONTROL LEGEND

– CFS

\_\_\_\_ LIMIT OF DISTURBANCE COMPOST FILTER SOCK INLET PROTECTION







PROPOSED FEATURES LEGEND	CONCRETE		
· · · · · · · · · · · · · · · · · · ·	CONCRETE E	EQUIPN	IENT SLA
———— E ————	ELECTRIC UT	ILITY	
			S
	CURB	-	_
XIXIKIKIKIKIKIKIKIKIKIKI			
	LAWN CONVE	ERSION	N
02020202020202020202020202	STONE		
	WALL		
IMPERVIOUS AR	FVC·		]
CONCRETE EQUIPMENT PAD		350	SF
CONCRETE EQUIPMENT PAD		350	
CONCRETE EQUIPMENT PAD		350	SF
CONCRETE EQUIPMENT PAD		135	SF
		1,185	SF
GENERATOR (TBR) LAWN CONVERSION		54	SF
DUMPSTER AREA (TBR) LAWN CONVERSION		394	
ASPHALT PAVEMENT (TBR) LAWN CONVERSION		295	SF
		743	SF
NET ADDITIONAL IMPERVIOUS		442	SF
			0.
DETAIL REFERENCE:			
1. (N) CONCRETE EQUIPMENT PAD SEE 1/C7.	.01		
2. (N) UNCOMPACTED AASHTO #57 STONE SI	EE 2/C7.01		
3. (N) LAWN SEE DETAIL 3/C7.01			
4. (N) ROLLED CURB SEE DETAIL 5/C7.01			

GENERATOR INFORMATION FUEL TYPE: NATURAL GAS TANK SIZE: N/A DIST. TO BUILDING: N/A

5. (N) CONCRETE DUMPSTER PAD SEE DETAIL 9/C7.01

6. (N) MASONRY WALL SEE DETAIL 10/C7.01

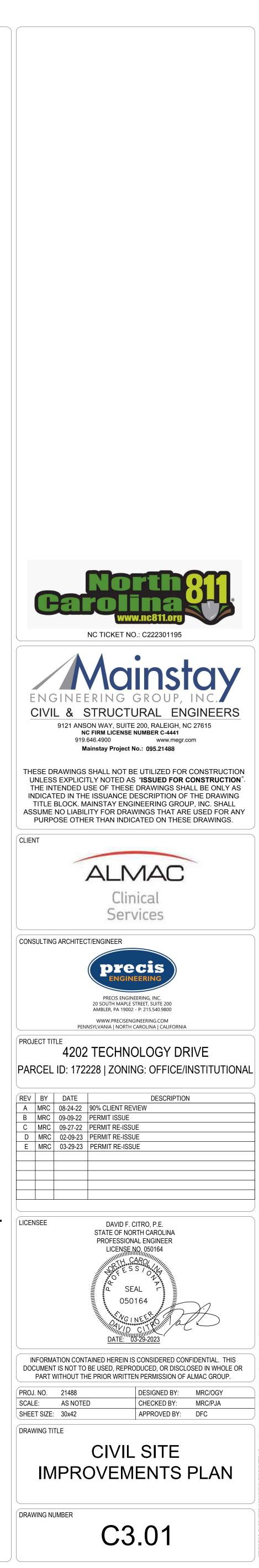
SITE PLAN AND FINAL PLAT STANDARD NOTES

13. LANDSCAPE MULCH: PINE STRAW SHALL NOT BE USED AS MULCH OR GROUNDCOVER WITHIN TEN FEET OF ANY STRUCTURES CONSISTING OF EXTERIOR COMBUSTIBLE CONSTRUCTION AS SPECIFIED BY DURHAM CITY CODE SECTION 46-87. 14. LANDSCAPE/SITE COMPLIANCE INSPECTION: ALL SITE IMPROVEMENTS, INCLUDING LANDSCAPING, MUST BE IN

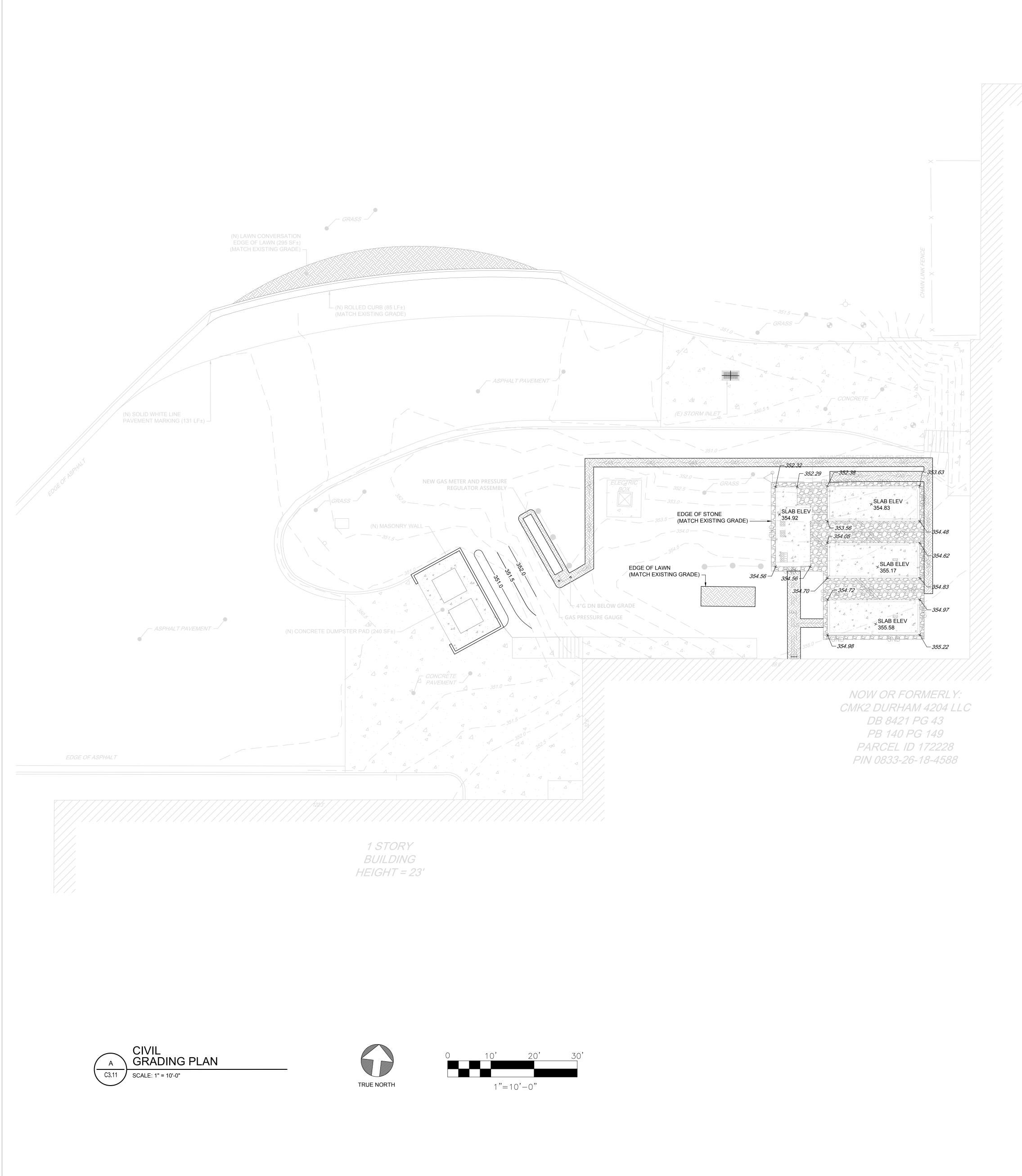
- PLACE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE. CONTACT THE DURHAM CITY-COUNTY PLANNING DEPARTMENT SITE COMPLIANCE STAFF TO SCHEDULE AN INSPECTION. SITE COMPLIANCE INSPECTION FEES MUST BE RECEIVED BY THE DURHAM CITY-COUNTY PLANNING DEPARTMENT PRIOR TO SCHEDULING AN INSPECTION. IF A RE-INSPECTION IS REQUIRED, AN ADDITIONAL INSPECTION FEE MUST BE RECEIVED BY THIS OFFICE PRIOR TO THE RE-INSPECTION.
- 15. UDO LANDSCAPE COMPLIANCE CERTIFICATION NOTE (UDO SECTION 9.2.5D); THESE STANDARDS MUST BE VERIFIED BY A LANDSCAPE COMPLIANCE FORM COMPLETED BY PROFESSIONAL LANDSCAPE ARCHITECT OR LICENSED LANDSCAPE CONTRACTOR PRIOR TO THE CERTIFICATE OF COMPLIANCE BEING ISSUED. SUBMIT TO THE DURHAM CITY-COUNTY PLANNING DEPARTMENT SITE COMPLIANCE STAFF WHEN SCHEDULING A SITE COMPLIANCE INSPECTION. 1. BED AND HOLE PREPARATION:
- TREATMENT WAS ADDED ONLY PER RECOMMENDATIONS, BASED ON SOIL TESTS; SOIL TEST RESULTS ARE ATTACHED, IF APPLICABLE TREE HOLES AND PLANTING BEDS HAVE BEEN TESTED FOR INFILTRATION THERE WAS NO LANDSCAPE FABRIC USED ON SITE
- SOIL IS FRIABLE AND DRAINS AT A DEPTH OF 2' FOR TREE PLANTING AREAS 2. TREE PREPARATION:
- A. THE ROOT COLLAR OF ALL TREES HAS BEEN EXPOSED AND IS FREE FROM SOIL, DEBRIS AND MULCH B. GIRDLING ROOTS HAVE BEEN CUT AWAY FROM THE TRUNK AND CORRECTED WITHIN THE PLANTING MIX 3. TREE INSTALLATION:
- TREES ARE INSTALLED WITH ROOT COLLARS EXPOSED AND COMPLETELY ABOVE GRADE TREES AND PLANTS WERE WATERED WITHIN TWO DAYS OF INSTALLATION
- MULCH HAS BEEN INSTALLED WITHIN A WEEK OF INSTALLATION STAKES WERE ONLY INSTALLED TO ADDRESS SPECIFIC ISSUES PERMITTED IN THE LANDSCAPE MANUAL 4. TREES HAVE BEEN VERIFIED TO BE THE SAME SPECIES AND CULTIVAR AS LISTED ON PLANS. ANY SUBSTITUTIONS, (IN ACCORDANCE WITH THE LANDSCAPE MANUAL), IF APPLICABLE, ARE ATTACHED.
- 5. RESULTS OF SOIL TESTS FOR EACH AREA OF DIFFERENT VEGETATION INSTALLATION, IF APPLICABLE, ARE ATTACHED.
- 6. RATES OF CHEMICAL MODIFICATIONS (TO PH AND FERTILITY ADJUSTMENTS), IF APPLICABLE, ARE ATTACHED.
- 22.PROTECTION OF EXISTING VEGETATION (UDO SECTION 8.3): AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA PRIOR TO OR AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THIS CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, DUMPING OF WASTE, FILL, OR PARKING OF EQUIPMENT SHALL BE ALLOWED WITHIN THE ROOT PROTECTION ZONE AND NO TRESPASSING SHALL BE
- ALLOWED WITHIN THE BOUNDARY OF THE ROOT PROTECTION ZONE. 36. FOR COUNTY SOIL AND EROSION CONTROL:
- A SEDIMENTATION AND EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED PRIOR TO THE ISSUANCE OF A LAND-DISTURBANCE. • IF AN OFFSITE SOIL SPOIL OR BORROW SITE IS UTILIZED, THEN THE DISTURBED AREA FOR THE SPOIL/BORROW SITE MUST BE INCLUDED IN THE LAND-DISTURBANCE PLAN AND PERMIT UNLESS THE SPOIL/BORROW SITE ALREADY HAS A LAND-DISTURBANCE PERMIT.

UTILITY NOTES: A UTILITY MAINLINE CONSTRUCTION PERMIT IS REQUIRED PRIOR TO THE INSTALLATION OF EACH UTILITY. ALL UTILITIES SHALL SUBMIT PLAN DRAWINGS AND APPLICATIONS TO THE CITY ENGINEERING DIVISION.

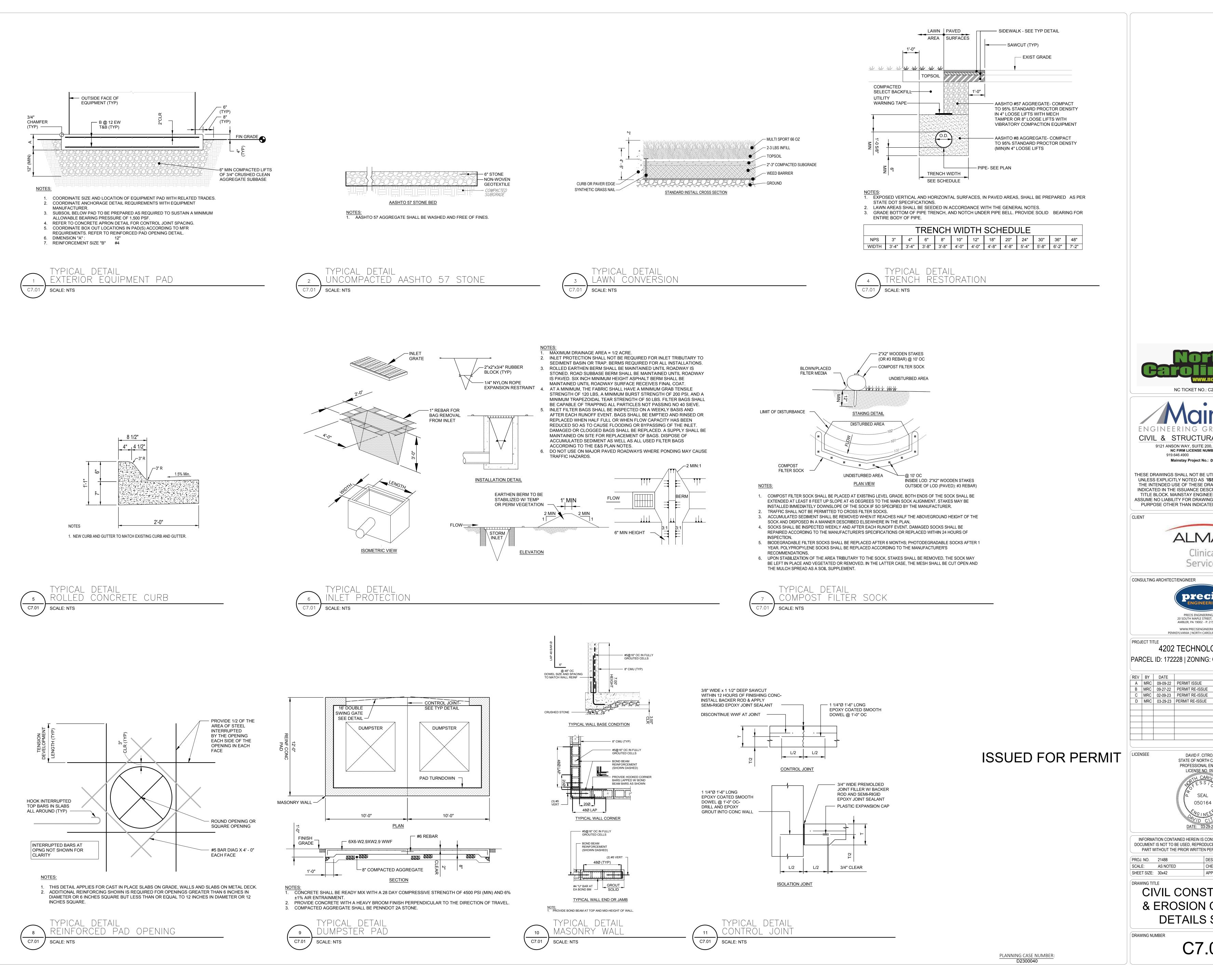
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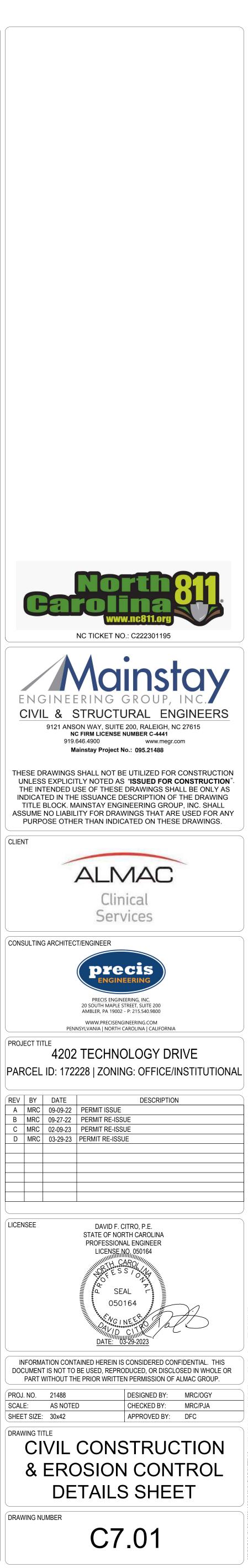


PLANNING CASE NUMBER: D2300040

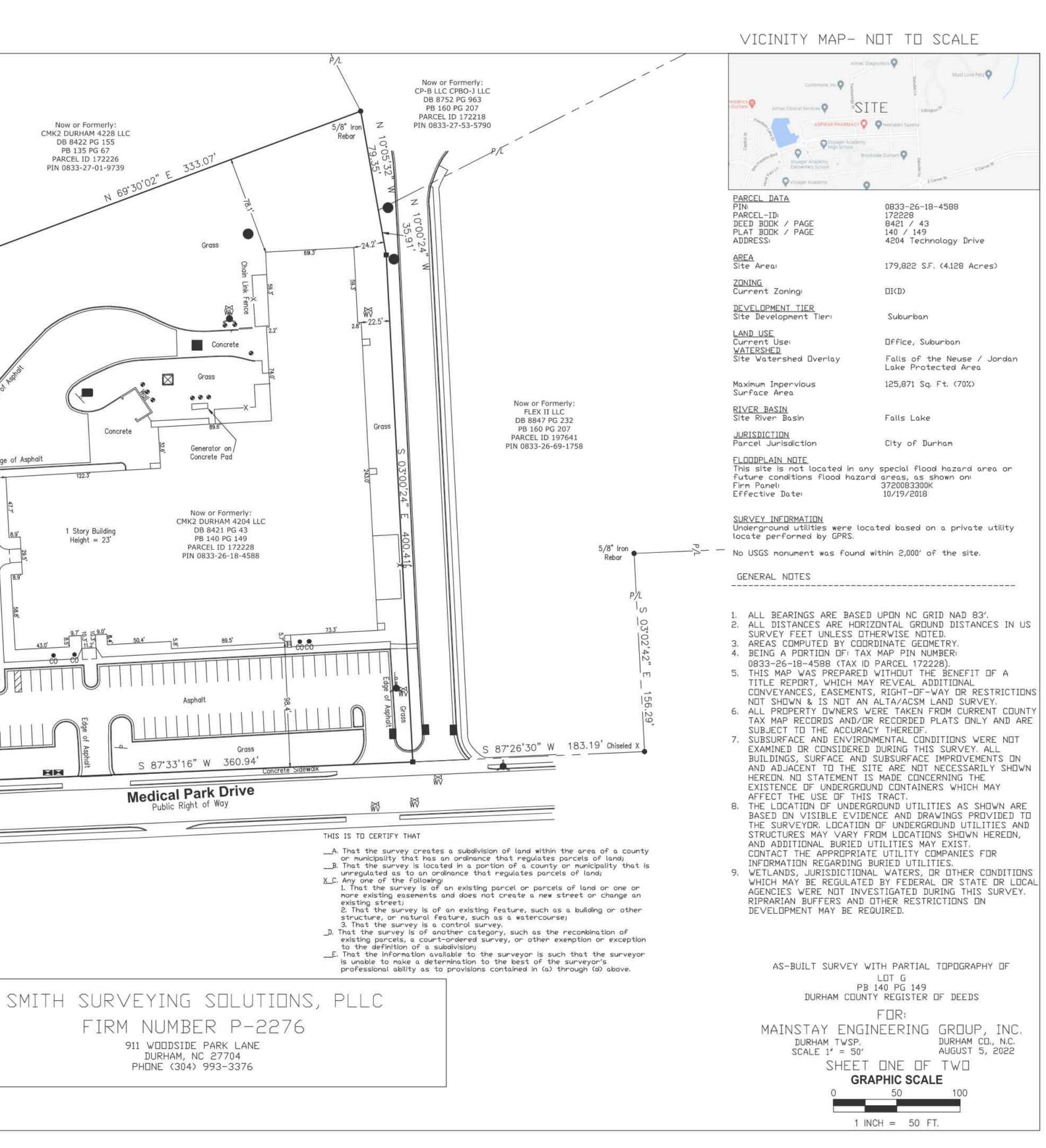




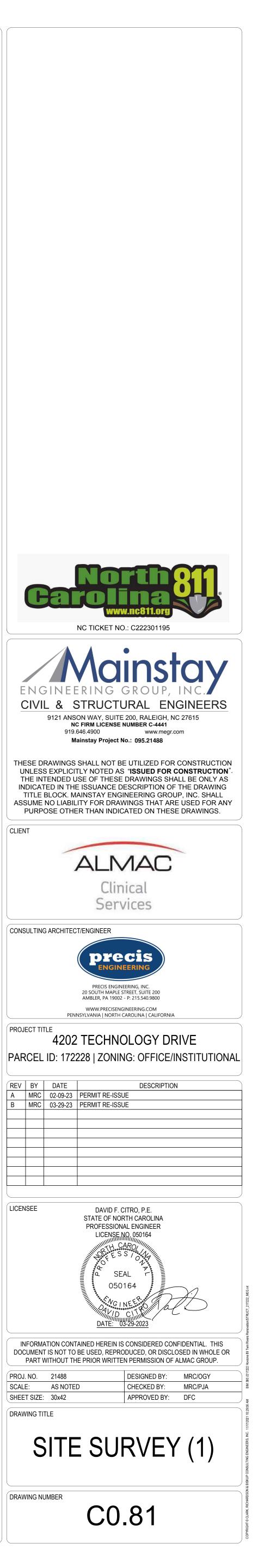


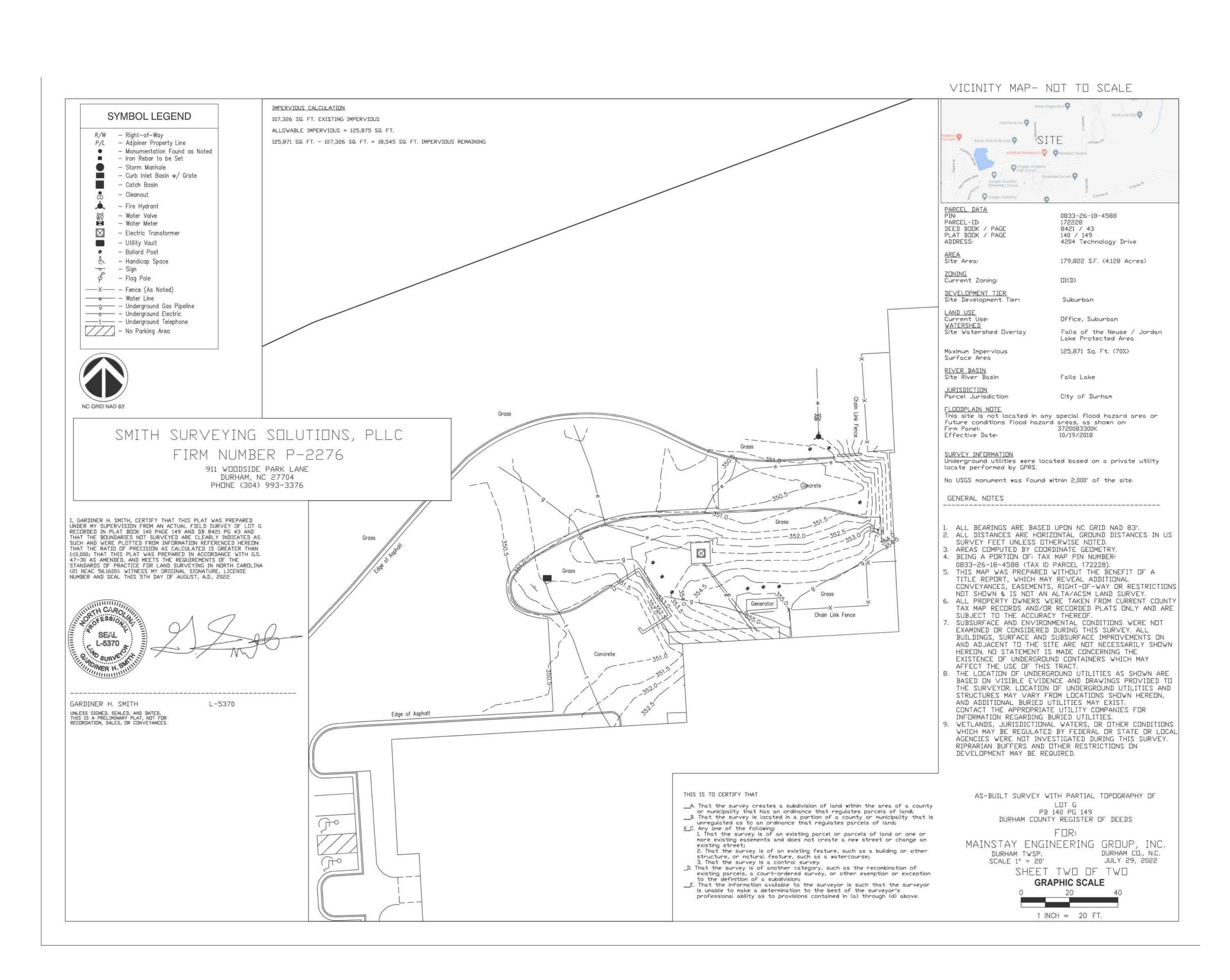


IMPERVIOUS CALCULATION 107,326 SQ. FT. EXISTING IMPERVIOUS ALLOWABLE IMPERVIOUS = 125,875 SQ. FT. 125,871 SQ. FT. - 107,326 SQ. FT. = 18,545 SQ. FT. IMPERVIOUS REMAINING Grass NC GRID NAD 83' Edge of Asphalt SYMBOL LEGEND R/W - Right-of-Way P/L - Adjoiner Property Line Monumentation Found as Noted Iron Rebar to be Set Storm Manhole Curb Inlet Basin w/ Grate - Catch Basin - Cleanout 5 🙏 — Fire Hydrant n Public Ri R - Water Valve 🐱 – Water Meter 🖂 — Electric Transformer Drive light of Wo – Utility Vault Bollard Post 🕹 — Handicap Space 🚽 – Sign  $\phi$  – Flag Pole Grass ——X—— - Fence (As Noted) ——w—— — Water Line -----e------ - Underground Electric /// - No Parking Area Rad 30.00' Arc 44.79' 🌑 D 85'32'56" ChB N 49'39'46" W ChL 40.75' I, GARDINER H. SMITH, CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY OF LOT G RECORDED IN PLAT BOOK 140 PAGE 149 AND DB 8421 PG 43 AND THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS SUCH AND WERE PLOTTED FROM INFORMATION REFERENCED HEREON: THAT THE RATIO OF PRECISION AS CALCULATED IS GREATER THAN 1:10,000; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED, AND MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 5TH DAY OF AUGUST, A.D., 2022. UCAD FSS SEAL GARDINER H. SMITH L-5370 UNLESS SIGNED, SEALED, AND DATED, THIS IS A PRELIMINARY PLAT, NOT FOR RECORDATION, SALES, OR CONVEYANCES.



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