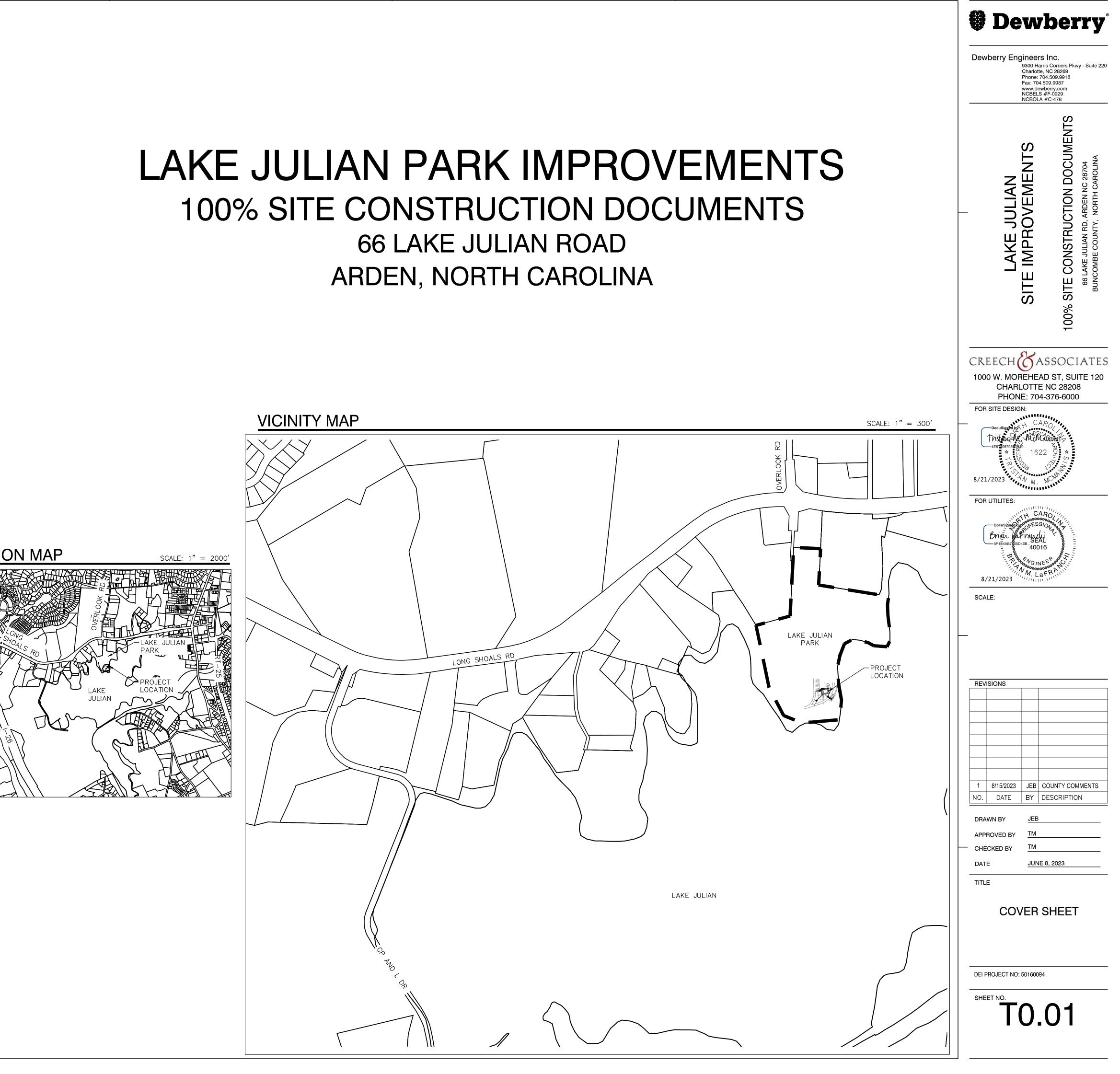
	DRAWING INDEX	
	SHEET NO. SHEET TITLE ORIGINAL DATE REVISION DATE	
E	T0.01       COVER SHEET       06/08/2023       08/15/2023         C0.01       EXISTING SURVEY       06/08/2023       08/15/2023         C0.02       GENERAL NOTES       06/08/2023       06/08/2023         C0.03       NCG01 NOTES       06/08/2023       08/15/2023         C0.04       NCG01 NOTES       06/08/2023       08/15/2023         C1.01       DEMOLITION PLAN       06/08/2023       08/15/2023         C2.01       SITE PLAN       06/08/2023       08/15/2023         C3.01       GRADING PLAN       06/08/2023       08/15/2023         C4.01       UTILITY PLAN       06/08/2023       08/15/2023         C5.02       SITE & LANDSCAPE DETAILS & NOTES       06/08/2023         C5.03       STORM DETAILS       06/08/2023         C5.04       UTILITY DETAILS       06/08/2023	
_		
D		
	ZONING, FLOODPLAIN & WATERSHED INFORMATION ZONED: PS PERMITTED USE: ACCESSORY BUILDING NUMBER OF UNITS: 1 OPEN SPACE REQUIREMENT: N/A SETBACKS: N/A	
С	SITE LOCATION ADDRESS: 66 LAKE JULIAN RD, ARDEN, NC HISTORIC DISTRICT: N/A ANNEXATION AREA: N/A CENSUS TRACT #: <u>WATER QUALITY BUFFERS</u> PARCEL INSIDE WATER QUALITY BUFFER: N/A	
	POST CONSTRUCTION DISTRICTS JURISDICTION: LOCAL DISTRICT: BUNCOMBE COUNTY <u>FEMA AND COMMUNITY FLOODPLAIN</u> FEMA PANEL #: 3700964400J	
	FEMA PANEL DATE: 1/6/2010 FEMA FLOOD ZONE: X COMMUNITY FLOOD ZONE: N/A	
	WATERSHED PROTECTION DISTRICTS WATERSHED NAME: N/A	
	PROPOSED DENUDED AREA 0.2 ACRES	
В		
_		
А	CLIENT: Creech & Associates John Crawford 1000 W. MOREHEAD ST, SUITE 120 CHARLOTTE, NC 28208 PH. (704) 376-6000 jcrawford@creech-design.comENGINEER: Dewberry Engineers Inc. Brian LaFranchi, P.E. 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269 PH. (704) 631-5206 blafranchi@dewberry.comLANDSCAPE ARCHITECT: Dewberry Engineers Inc. Tristan McMannis, PLA, ASLA, LED AP 9300 Harris Corners Parkway Suite 220 Charlotte, NC 28269 PH. (704) 631-5206 blafranchi@dewberry.comLANDSCAPE ARCHITECT: Dewberry Engineers Inc. Tristan McMannis, PLA, ASLA, LED AP 9300 Harris Corners Parkway Suite 220 Charlotte, NC 28269 PH. (704) 264-1233 tmcmannis@dewberry.com	
	SUBMITTALSET NUMBERPRELIMINARYCONSTRUCTIONAPPROVALREVISIONBIDDINGRECORD	

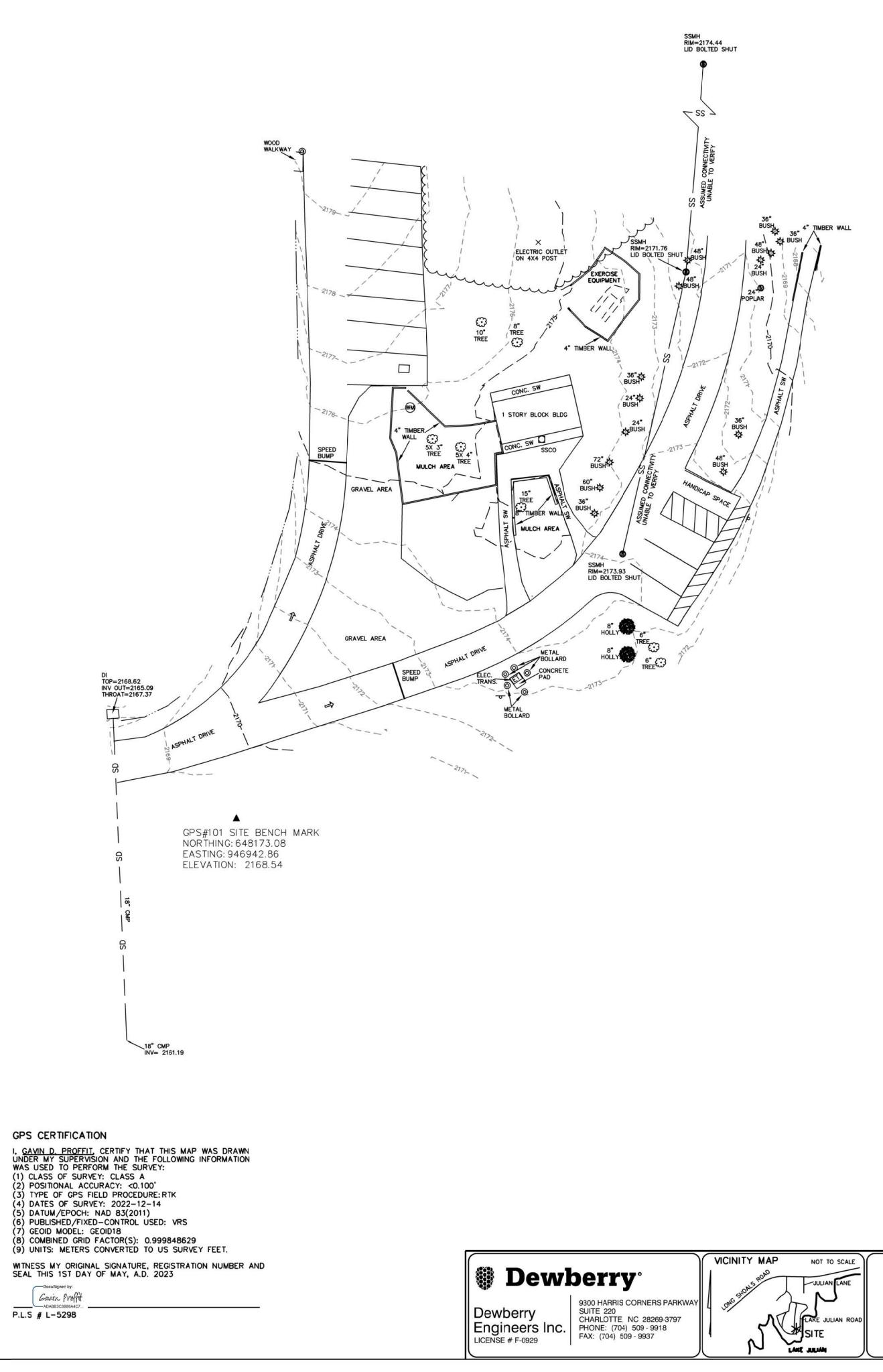


	<ol> <li>ALL DISTANCES SHOWN ARE HORIZONTAL MEASUREMENTS.</li> <li>SEE DATUM DESCRIPTION NOTE FOR NCGS INFORMATION.</li> <li>THIS MAP IS NOT PREPARED FOR RECORDATION AS PER G.S. 47-30.</li> <li>THIS IS A TOPOGRAPHIC SURVEY. NO BOUNDARY WORK WAS PERFORMED. LINES NOT SURVEYED ARE PER MECKLENBURG COUNTY GIS.</li> <li>UNDERGROUND UTILITY LOCATIONS WERE PERFORMED BY OTHERS. THE SURVEYOR OFFERS NO WARRANTY AS TO THE ACCURACY OF UNDERGROUND UTILITIES SHOWN HEREON.</li> </ol>	
GRID NORTH (NAD83/2011)		
N N H NON		
NC GRID		
EGEND		
- <u></u>	MINOR CONTOUR	
SS		
	FENCE	
	OVERHEAD UTILITY	
	STORM DRAINAGE 	
UGE UGE	UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE	
	UNDERGROUND CATV	
	- RIPRAP	
	PROPERTY LINE (NOT SURVEYED)     ELECTRIC METER	
	ET ELECTRIC TRANSFORMER	
	<ul> <li>→ FIRE HYDRANT</li> <li>→ HANDHOLE</li> </ul>	
	UNDERGROUND FIBER OPTIC MARKER	
	GAS TEST HOLE	
	登 MAILBOX	
	Ø POWER POLE	
	SD STORM DRAINAGE MANHOLE	
	- SIGN	
	WV WATER VALVE	
	<ul> <li>CATCH BASIN</li> <li>FOUND IRON - AS NOTED</li> </ul>	
	FOUND IRON - AS NOTED SW SIDEWALK	
OFD THE 10 4 TO 1		
CERTIFICATION	L T CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND ARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT	
THIS GROUND SU FEDERAL GEOGRA TO MEET THE RE	RVEY WAS PERFORMED AT THE 95% PERCENT CONFIDENCE LEVEL TO MEET PHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED QUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE	
ACCURACY OF CI STANDARD, AND THAT THE SURVE	ASS AA AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS A THAT THE ORIGINAL DATA WAS OBTAINED ON DECEMBER 14TH, 2022; Y WAS COMPLETED ON DECEMBER 14, 2022; THAT CONTOURS SHOWN AS	
[BROKEN LINES] BASED ON NAD 8 88.	MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE 33 AND REALIZATION (2011) AND ALL ELEVATIONS ARE BASED ON NAVD	Why CA
WITNESS MY ORIC	GINAL SIGNATURE, REGISTRATION LICENSE NUMBER AND SEAL THIS	SEAL L-529 C-P-L-N D. F
	Cocusignes by: Convin Proffit	TTL NO SUR

GPS CERTIFICATION

DocuSigned by: Gavin Proffit

ADABB3C3886A4C7... P.L.S **#** L-5298



			SHEET 1 OF 1
	$\gamma$	TOPOGRAPHIC SU	
	Cre	ech & Asso	ociates, PLLC
Lake Julian Park	SCALE: 1" = 20'	DRAWN BY: CAH	TOWNSHIP / CITY:
37 LAKE JULIAN RD. ARDEN, NC 28704	DATE: December 14, 2022	JOB NUMBER: 50160094	ARDEN, NORTH CAROLINA
		10 20 4	40 60 80 SCALE

DocuSian	Envelope	D 96502	C19-52D8	-40F5-9E2F	-1331FF3FF	RFR6
Joouoigii	Entopo				100101000	

	1	2	
GE	NERAL NOTES		G
1.	BASE DATA FROM MECKLENBURG COUNTY GIS AND SURVEY PROVIDED BY DEWBERRY, DATED DECEMBER 14, 2022.		1

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXERCISING REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND DESIGNER OF RECORD IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE ILLUSTRATED DESIGN.

- PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC, AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE OWNER OR DESIGNER OF RECORD. REPAIRS SHALL BE MADE AT NO COST TO THE DEVELOPER/OWNER.
- 4. CONTRACTOR SHALL HOLD HARMLESS THE OWNER AND THE DESIGNER OF RECORD FOR DAMAGES, INJURIES OR OTHER ACCIDENTS WHICH OCCUR DURING THESE CONSTRUCTION ACTIVITIES.
- TREES AND EXISTING LANDSCAPING NOT DESIGNATED FOR REMOVAL SHALL BE PROTECTED DURING CONSTRUCTION.
- 6. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION INCLUDING DAMAGES TO OTHER CONTRACTORS & CONSULTANTS WORK AND SHALL MAKE REPAIRS OR HAVE REPAIRS MADE BY OTHERS AT THEIR EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION ADJUSTMENTS OF ALL EXISTING VAULTS (REGARDLESS OF FUNCTION), METER BOXES, FIRE HYDRANTS, CLEAN OUTS, MANHOLES ETC. TO MATCH FINISHED GRADES AND SITE PLAN. ALL SUCH WORK SHALL BE COORDINATED WITH THE DESIGNER OF RECORD AND OWNER.
- 8. UTILIZE SIGNS, BARRICADES, ETC. TO ENSURE THE SAFETY OF THE GENERAL PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LAYOUT OF ALL WORK AS ILLUSTRATED ON PLANS. IF EXISTING
- CONDITIONS DIFFER FROM THOSE ILLUSTRATED ON PLANS, NOTIFY DESIGNER OF RECORD AND DEVELOPER/OWNER PRIOR TO CONSTRUCTION. 10. VERIFY ALL DIMENSIONS AND GRADES AT THE JOB SITE. IF DIFFERENCES ARE FOUND, NOTIFY DESIGNER OF RECORD SO THAT
- MODIFICATIONS TO THESE DRAWINGS CAN BE MADE. 11. ALL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 12. ANY LAND DISTURBANCE ACTIVITY >1 ACRE REQUIRES COMPLIANCE WITH ALL CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (PERMIT No NCG010000). ANY PERMIT NONCOMPLIANCE IS A VIOLATION OF THE CLEAN WATER ACT AND MAY REQUIRE ENFORCEMENT ACTION BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY. (FOR QUESTIONS CONTACT MOORESVILLE REGIONAL OFFICE WATER QUALITY STAFF AT 704-663-1699.
- 13. PROPOSED RIM ELEVATIONS FOR CATCH BASINS ARE MEASURED AT THE CENTER OF THE GRATE AT THE EDGE OF PAVEMENT. RIM ELEVATIONS FOR MANHOLES AND DROP INLETS ARE AT THE CENTER OF THE LID/GRATE.
- 14. EXISTING TREES ON THIS SITE ARE RECOGNIZED AS A NATURAL MARKETING ASSET; THEREFORE, THE DEVELOPER WILL ENDEAVOR TO RETAIN EXISTING TREES WHERE POSSIBLE THROUGHOUT THE SITE, ESPECIALLY IN THE OUTER BOUNDARY PERIMETER AREAS WHERE THE SITE ADJOINS OTHER PROPERTIES.
- CONTRACTOR TO COORDINATE PLANTING LOCATIONS WITH BUNCOMBE COUNTY PRIOR TO PLACEMENT.

# EROSION AND SEDIMENT CONTROL NOTES

- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- 2. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- 3. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- 4. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING.
- DEWATERING TO BE AUTHORIZED BY THE EROSION CONTROL INSPECTOR AS RELATED TO SITE CONDITIONS. CONTRACTOR SHALL OBTAIN EROSION CONTROL INSPECTOR AUTHORIZATION PRIOR TO DEWATERING ACTIVITIES.
- 6. ALL LAND-DISTURBING ACTIVITIES, INCLUDING THOSE THAT DISTURB LESS THAN AN ACRE, SHALL PROVIDE ADEQUATE EROSION CONTROL MEASURES, STRUCTURES, OR DEVICES IN ACCORDANCE WITH THE COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- 7. POLYACRYLAMIDES MAY BE REQUIRED ON SITE, AS DETERMINED BY THE COUNTY EROSION CONTROL INSPECTOR.
- 8. DOUBLE ROW OF HIGH HAZARD SILT FENCE WITH WIRE BACKING AND STONE SHALL BE USED ALONG WETLANDS, STREAMS, LAKES OR OTHER SURFACE WATER BODIES AS WELL AS ADJACENT TO ALL S.W.I.M. OR OTHER WATER QUALITY BUFFERS. SINGLE ROW OF SILT FENCE WITH WIRE BACKING AND WASHED STONE MAY BE REQUIRED ON ALL OTHER AREAS, AS DETERMINED NECESSARY BY THE TOWN ENGINEER OR FIELD INSPECTOR.
- 9. A GROUND COVER SUFFICIENT TO RESTRAIN ACCELERATED EROSION MUST BE PROVIDED WITHIN 7 CALENDAR DAYS OF THE DATE OF LAST LAND-DISTURBING ACTIVITY ON ANY PORTION OF THE PROJECT.
- 10. APPLY EROSION CONTROL MATTING TO DIVERSION DITCHES AND INTERIOR BASIN SLOPES AS SHOWN ON THE PLANS.
- 11. FILL SLOPE STEEPNESS SHALL BE LIMITED TO 3:1. SLOPES STEEPER THAN 3:1 MUST BE TERRACED OR OTHERWISE PROVIDE AN APPROVED ENGINEERED SOLUTION. SLOPES 3:1 OR FLATTER MUST BE DESIGNED AS SET FORTH IN THE NC SOIL EROSION & SEDIMENT PLANNING & DESIGN MANUAL, STANDARD 6.02A.
- 12. ALL PLANS WILL CARRY A "PERFORMANCE RESERVATION".

13. ALL SELF-INSPECTION LOG BOOK ENTRIES WILL BE ELECTRONICALLY SENT TO THE AREA INSPECTOR, WITHIN 2 WORKING DAYS OF A QUALIFYING RAIN EVENT OR WEEKLY (WHICHEVER IS SHORTER). FOR EROSION CONTROL BASINS WITH A DRAINAGE AREA GREATER THAN 10 ACRES, TURBIDITY MEASUREMENTS MAY BE REQUIRED AT THE DISCRETION OF THE TOWN TO MEASURE CLARITY OF BASIN EFFLUENT AND ANY POTENTIAL IMPACT TO RECEIVING WATERS AT THE TIME OF RAINFALL-TRIGGERED INSPECTIONS. READINGS MUST BE COLLECTED AT THE BASIN OUTFALL (TO MEASURE CLARITY OF BASIN EFFLUENT), UPSTREAM OF THE DISCHARGE POINT (TO MEASURE BASELINE CONDITIONS) AND DOWNSTREAM OF THE DISCHARGE POINT (TO MEASURE STREAM IMPACTS OF THE BASIN EFFLUENT) WHEN POSSIBLE. THE RESULTS MUST BE LOGGED IN THE INSPECTION REPORTS.

14. AFTER CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES.

- DURING DEMOLITION OPERATIONS.

## SITE NOTES

- OTHERWISE NOTED.

- FROM INJURY.

- PHASE 1:

- <u>PHASE 2:</u>

- 5

## ENERAL DEMOLITION NOTES

1. SAW CUT AND REMOVE ALL ASPHALT AND CONCRETE TO LIMITS REQUIRED FOR PROPOSED WORK. SAW CUTS FOR CONCRETE SHALL OCCUR AT THE NEAREST CONTROL JOINT OR EXPANSION JOINT. SAW CUTS BETWEEN CONTROL JOINTS ARE NOT ACCEPTABLE. ALL DECORATIVE SCORING PATTERNS SHALL BE REPLACED TO THE OWNER'S SATISFACTION. CONTRACTOR SHALL DOCUMENT AND PHOTOGRAPH ALL DECORATIVE SCORING PATTERNS PRIOR TO DEMOLITION.

2. REMOVE VEGETATION, GRASS, & ROOTMAT IN AREAS TO RECEIVE NEW ASPHALT AND CONCRETE PAVEMENTS.

 ALL PRIMARY UTILITIES DISCOVERED DURING DEMOLITION OPERATIONS SHALL BE PROPERLY PRESERVED AND PROTECTED. 4. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER ANY UNFORESEEN OR ADVERSE CONDITIONS DISCOVERED

5. CONTRACTOR SHALL PROTECT EXISTING PLANT MATERIAL NOT DESIGNATED FOR REMOVAL OR RELOCATION FROM DAMAGE DURING CONSTRUCTION.

6. CONTRACTOR SHALL KEEP ALL SURROUNDING PUBLIC ROADWAYS AND DRAINAGE SYSTEMS FREE FROM DIRT, MUD, AND CONSTRUCTION DEBRIS AT ALL TIMES.

CONTRACTOR SHALL REMOVE ASPHALT PAVEMENT, CONCRETE AND MISCELLANEOUS ITEMS AS NECESSARY TO FACILITATE CONSTRUCTION IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

11. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR/REPLACE ANY DAMAGED UTILITIES AT NO ADDITIONAL COST TO THE OWNER.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY ITEMS DAMAGED DURING THE CONSTRUCTION.

13. CONTRACTOR SHALL REMOVE ALL FOUNDATIONS, FOOTING, AND SLABS WITHIN THE PROJECT LIMITS TO FULL DEPTH OR AS INDICATED ON THESE PLANS.

14. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEBRIS AND CONSTRUCTION WASTE AT A LANDFILL LEGALLY ABLE TO ACCEPT SUCH MATERIAL IN THE STATE OF NORTH CAROLINA.

DIMENSIONS AND COORDINATE POINTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CORNER OF BUILDING UNLESS

ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.

ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK.

PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM ALL REGULATORY AUTHORITIES.

5. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.

6. GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE PUBLIC SHALL BE PROTECTED

7. DO NOT SCALE DRAWINGS FROM ACTUAL DIMENSIONS, AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.

8. ALL SIGNS, PAVEMENT MARKING, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION AS AMENDED.

CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT PAVEMENT AREAS TO TIE IN SMOOTHLY TO PROPOSED PAVEMENT.

10. LAND DEVELOPMENT INSPECTOR TO BE GIVEN 24 HOURS NOTICE PRIOR TO START OF CONSTRUCTION.

11. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWINGS UPON REQUEST.

12. ALL PAVED AREAS SHALL COMPLY WITH THE LATEST ADA ACCESSIBILITY (2010) AND ANSI A17.1 GUIDELINES

13. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,600-PSI AT 28 DAYS, AND SHALL HAVE A MEDIUM BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL.

14. ALL PROPOSED PAVEMENT ADJACENT TO EXISTING PAVEMENT SHALL TIE FLUSH TO ADJACENT SURFACES.

### CONSTRUCTION SEQUENCE

1. OBTAIN ALL NECESSARY PERMITS FROM GOVERNMENT AGENCIES.

2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE EROSION CONTROL INSPECTOR.

INSTALL CONSTRUCTION ENTRANCE, SILT FENCE, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.

CALL FOR ON-SITE INSPECTION BY INSPECTOR. ONCE THE INSPECTOR REVIEWS ALL MEASURES IN THE FIELD AND DEEMS THEM ACCEPTABLE, A GRADING PERMIT WILL BE ISSUED.

ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPARTMENT OF AGRICULTURE, AND BUNCOMBE COUNTY LAND DEVELOPMENT STANDARDS.

7. BEGIN CLEARING, GRUBBING, AND DEMOLITION OPERATIONS.

COMMENCE WITH ROUGH GRADING OF THE SITE

VERIFY SILT FENCE AND OTHER MEASURES INSTALLED DURING PHASE 1 ARE STILL PROVIDING PROTECTION TO KEEP SEDIMENT FROM LEAVING THE SITE. ADJUST MEASURES AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING PROJECT LIMITS.

INSTALL ADDITIONAL RUNOFF PREVENTION MEASURES SHOWN ON PLANS.

INSTALL PERMANENT STORM PIPES, STRUCTURES, AND UTILITIES AS SHOWN ON PLANS.CONTRACTOR SHALL CALL FOR ON-SITE INSPECTION BY INSPECTOR. INSPECTOR SHALL VERIFY INSTALLATION OF STORM PIPES AND STRUCTURES AND THAT SITE DRAINAGE PATTERNS MATCH CONDITIONS SHOWN ON THE PHASE 2 ESC PLAN.

COMMENCE FINE GRADING OF THE SITE.

6. COMMENCE PAVING, SIDEWALK INSTALLATION, AND BRING ALL GRADES TO FINAL GRADES AS SHOWN ON PLANS.

7. STABILIZE ALL DENUDED AREAS. ONCE THE SITE HAS BEEN STABILIZED, CONTRACTOR SHALL CONVERT THE SEDIMENT BASIN INTO A DRY DETENTION BASIN AS SHOW ON THE PLANS. CONTRACTOR SHALL CLEAN OUT SEDIMENT THAT HAS ACCUMULATED IN THE BASIN DURING EROSION CONTROL PHASES.

8. ONCE CONSTRUCTION IS COMPLETE, COORDINATE WITH EROSION CONTROL INSPECTOR FOR FINAL SITE INSPECTION.

### **GRADING NOTES**

- SHALL BE AT THE CENTER OF THE LID OR GRATE.
- GREATER THAT 2% IN ANY DIRECTION.
- CURB IS CALLED OUT.
- GEOTECHNICAL ENGINEER.
- WITH ASTM D4318. SIZE RESTRICTIONS ARE AS FOLLOWS:
- GEOTECHNICAL ENGINEER.

- UNIFORM MANNER. THE TOPS OF CUT SLOPES SHALL BE FLATTENED AND ROUNDED.
- SIDEWALKS AFFECTED BY THE EXCAVATION.
- MAY BE THAWED OUT AND USED AT A LATER DATE.
- OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698.
- OWNER'S GEOTECHNICAL ENGINEER, UNSUITABLE FOR THE PLACEMENT THEREOF.
- INSURE UNIFORM DENSITY AND MOISTURE FOR PROPER COMPACTION.

- WITH RE-TESTING DUE TO FAILED ACCEPTANCE TEST.
- REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER.
- DURING THE OPERATION, THEN UNDERCUTTING SHOULD BE PERFORMED.

5

RIM ELEVATIONS ARE AT THE CENTER OF THE GRATE AT THE EDGE OF PAVEMENT. RIM ELEVATIONS FOR DROP INLETS AND MANHOLES

2. ALL SIDEWALKS AND PAVED AREAS FOR PEDESTRIAN TRAFFIC SHALL BE GRADED IN ACCORDANCE WITH THE 2010 ADA GUIDELINES AND SHALL HAVE A CROSS SLOPE OF 1.5% PREFERRED, 2% MAXIMUM. THE LONGITUDINAL SLOPE OF WALKS SHALL NOT EXCEED 5% UNLESS THESE DRAWINGS INDICATE A RAMP CONDITION. ANY LANDINGS, AND LOADING AREA ADJACENT TO BUS STOP SHALL NOT HAVE A SLOPE

3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING POSITIVE DRAINAGE AT ALL INTERSECTIONS. SPECIAL CARE MUST BE TAKEN WHERE SPILL

4. GENERALLY, SOIL MATERIALS FOR CONSTRUCTION SHALL BE AS RECOMMENDED IN THE GEOTECHNICAL REPORT BY THE OWNER'S

5. FILL AND BACKFILL MATERIAL SHALL CONSIST OF SOIL, GRANULAR SAND, GRAVEL, AND COBBLE MATERIAL, FREE FROM FROZEN MATERIAL, ORGANIC MATERIAL, TRASH, GLASS, BROKEN CONCRETE, AND OTHER CORROSIVE OR DELETERIOUS MATERIAL. APPROVAL OF FILL AND BACKFILL MATERIAL IS CONTINGENT ON THE MATERIAL HAVING A MAXIMUM DRY DENSITY OF NOT LESS THAN 90 POUNDS PER CUBIC FOOT. THE MATERIAL MUST BE STABLE AND HAVE A LIQUID LIMIT LESS THAN 40 AND A PLASTIC INDEX LESS THAN 30 WHEN TESTED IN ACCORDANCE

5.1. NO MATERIAL SHALL HAVE DIMENSIONS LARGER THAN SIX (6") INCHES. WHERE THE SUBGRADE LAYER IS LESS THAN SIX (6") INCHES THE MAXIMUM SIZE SHALL NOT EXCEED TWO THIRDS ( $\frac{2}{3}$ ) THE DEPTH OF THE LAYER. WHERE UNSTABLE SUBGRADE IS ENCOUNTERED, THE CONTRACTOR SHALL OBTAIN RECOMMENDATIONS FROM THE OWNER'S GEOTECHNICAL ENGINEER AND PROVIDE RECOMMENDATIONS AND VARIANCE PRICING TO OWNER TO STABILIZE THE MATERIAL BY TECHNIQUES SUCH AS OVER-EXCAVATION AND BACKFILL WITH IMPORTED MATERIAL, USE OF GEOTECHNICAL REINFORCEMENT, CHEMICAL STABILIZATION OR OTHER METHODS. THE CONTRACTOR SHALL NOTIFY THE OWNER OF PROPOSED SOLUTION TO STABILIZE THE SUBGRADE AND SHALL NOT COMMENCE UNTIL THEY HAVE RECEIVED WRITTEN APPROVAL FROM THE OWNER. IF TESTS OR OBSERVATION REVEAL THAT MATERIAL BEING PLACED IS NOT OF SUITABLE QUALITY AND STRUCTURAL VALUE, THE CONTRACTOR SHALL PROVIDE OTHER MATERIAL AS APPROVED BY THE OWNER'S

6. EXCAVATION OF ALL MATERIALS SHALL BE PERFORMED IN CONFORMITY WITH THE LINES AND GRADES INDICATED ON THE DRAWINGS. SUITABLE MATERIAL REMOVED FROM THE EXCAVATION MAY BE USED AS FILL AND BACKFILL OR ANY OTHER AREAS WITHIN THE LIMITS OF WORK AS PERMITTED BY THE ENGINEER. WHERE MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE WORK IS CONSIDERED UNSUITABLE BY THE OWNER'S GEOTECHNICAL ENGINEER. WHERE MATERIAL ENCOUNTERED WITHIN THE LIMITS OF THE WORK IS CONSIDERED UNSUITABLE BY THE OWNER'S GEOTECHNICAL ENGINEER, SUCH MATERIAL SHALL BE EXCAVATED AS DIRECTED BY THESE STANDARDS, THE PLANS, OR THE OWNER'S GEOTECHNICAL ENGINEER AND REPLACED WITH SUITABLE MATERIAL

BUILDING PADS AND THE PAVEMENT STRUCTURE SHALL BE FOUNDED ON ORIGINAL, UNDISTURBED SOIL OR ON STRUCTURAL BACKFILL EXTENDED TO THE UNDISTURBED SOIL. BUILDING PADS AND THE PAVEMENT STRUCTURE SHALL NOT BE FOUNDED ON EXISTING FILL IF ENCOUNTERED AT THE PROJECT SITE UNLESS APPROVED BY THE ENGINEER. IF EXISTING FILL IS ENCOUNTERED AT THE SUBGRADE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHO SHALL EVALUATE THE EXISTING FILL FOR SUITABILITY OF ACCEPTING NEW FILL.

8. THE CONTRACTOR SHALL BLEND THE INTERSECTION OF CUT SLOPES WITH THE SLOPES OF ADJACENT NATURAL GROUND SURFACES IN A

9. ALL EXCAVATED MATERIAL SHALL BE STOCKPILED IN A MANNER THAT DOES NOT ENDANGER THE WORK OR WORKERS AND DOES NOT OBSTRUCT SIDEWALKS, STREETS, ALLEYS, AND/OR DRIVEWAYS. THE WORK SHALL BE DONE IN A MANNER THAT WILL MINIMIZE INTERFERENCE WITH TRAFFIC AND/OR DRAINAGE. THE CONTRACTOR AT THE END OF EACH DAY SHALL BARRICADE ALL EXCAVATIONS AND DITCH LINES, REMOVE EXCESS EXCAVATED MATERIAL FROM TRAVEL WAYS, AND THOROUGHLY CLEAN ALL STREETS, ALLEYS, AND/OR

10. MATERIAL ENCOUNTERED DURING EXCAVATION; SUCH AS, RUBBISH, ORGANIC, OR FROZEN MATERIAL, AND ANY OTHER MATERIAL WHICH IS UNSATISFACTORY FOR USE AS BACKFILL IN THE OPINION OF THE OWNER'S GEOTECHNICAL ENGINEER, SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. STONES, CONCRETE, OR ASPHALT CHUNKS LARGER THAN SIX (6") INCHES OR FROZEN MATERIAL SHALL BE CONSIDERED UNSATISFACTORY BACKFILL AND REMOVED BY THE CONTRACTOR. FROZEN MATERIAL, HOWEVER,

11. FILL AND BACKFILL SHALL CONSIST OF APPROVED MATERIAL UNIFORMLY DISTRIBUTED IN 8-INCH UNCOMPACTED LIFTS. EACH LIFT OF BACKFILL SHALL BE COMPACTED TO THE REQUIRED DENSITY BEFORE SUCCESSIVE LAYERS ARE PLACED. STRUCTURAL FILL AND BACKFILL SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN +/- TWO (2%) PERCENT OF THE

12. BEFORE ANY FILL IS PLACED, CLEARING, TREE REMOVAL, SOD AND TOPSOIL REMOVAL OVER THE ENTIRE AREA SHALL BE PERFORMED IN ACCORDANCE WITH THESE STANDARDS. THE BASE OF FILL AREA SHALL BE PROOFROLLED WITH A PNEUMATIC TIRED VEHICLE WEIGHING NO LESS THAN 20 TONS AND OBSERVED BY THE OWNER'S GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE OWNER'S GEOTECHNICAL ENGINEER NO LESS THAN 24 HOURS PRIOR TO PLACING FILL TO SCHEDULE THE PROOFROLL. NO FILL MATERIAL SHALL BE PLACED UPON SIFT, SPONGY, OR FROZEN MATERIAL OR OTHER MATERIAL, THE STABILITY OF WHICH IS IN THE OPINION OF THE

13. WHEN FILL IS TO BE PLACED ON SLOPES, IT SHALL BE CONTINUOUSLY BENCHED IN HORIZONTAL LAYERS TO KEY INTO THE EXISTING SLOPE. EACH LIFT OF THE FILL MATERIAL SHALL NOT EXCEED EIGHT (8") INCHES IN LOOSE DEPTH. THE CONTRACTOR SHALL THOROUGHLY MIX AND

14. GRADED SLOPES SHALL NOT EXCEED 3:1 OR AS RECOMMENDED BY THE OWNER'S GEOTECHNICAL ENGINEER.

15. BACKFILL MATERIAL SHALL NOT BE DEPOSITED AGAINST NEWLY CONSTRUCTED MASONRY OR CONCRETE STRUCTURES UNTIL THE CONCRETE HAS DEVELOPED A FIELD COMPRESSIVE STRENGTH OF EQUAL TO THE DESIGN COMPRESSIVE STRENGTH.

16. COMPACTION METHODS THAT PRODUCE HORIZONTAL OR VERTICAL EARTH PRESSURES, WHICH MAY CAUSE EXCESSIVE DISPLACEMENT OR OVERTURNING, OR MAY DAMAGE STRUCTURES, BURIED PIPE, OR UTILITIES, SHALL NOT BE USED.

17. UNLESS OTHERWISE INDICTED IN THE CONTRACT OR DIRECTED BY THE ENGINEER, ALL SHEETING AND BRACING USED IN EXCAVATION SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO BACKFILLING.

18. THE CONTRACTOR IS RESPONSIBLE FOR THE SCHEDULING THE QUALITY CONTROL TESTING AND PROTECTION OF WORK UNTIL ACCEPTED BY THE OWNER. ALL QUALITY CONTROL TEST RESULTS SHALL BE MADE AVAILABLE TO THE OWNER AND ENGINEER IMMEDIATELY AFTER TESTING. ACCEPTANCE TESTING MAY INCLUDE BUT NOT LIMITED TO TESTS ASSOCIATED WITH PLACING OF CONCRETE, ASPHALT, AND BASE COURSE SUBGRADE PREPARATION, AND SOIL COMPACTION. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MATERIAL TESTING FIRM AS TO WHEN HE OR SHE IS READY FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS ASSOCIATED

19. UPON COMPLETION OF THE STRIPPING OPERATIONS, THE EXPOSED SUBGRADE IN AREA TO RECEIVE FILL SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK OR SIMILAR PNEUMATIC TIRED VEHICLE (MINIMUM LOADED WIGHT OF 20 TONS) UNDER THE OBSERVATION OF THE A

20. THE PROOFROLLING PROCEDURES SHOULD CONSIST OF COMPLETE PASSES OF THE EXPOSED AREA, WITH HALF OF THE PASSES BEING IN A DIRECTION PERPENDICULAR TO THE PRECEDING ONES. AFTER EXCAVATION OS THE SITE HAS BEEN COMPLETED, THE EXPOSED SUBGRADE IN CUT AREAS SHOULD ALSO BY PROOFROLLED AS PREVIOUSLY DESCRIBED. ANY AREA WHICH DEFLECT, RUT, OR PUMP EXCESSIVELY DURING PROOFROLLING OR FAIL TO IMPROVE SUFFICIENTLY AFTER SUCCESSIVE PASSES SHOULD BE UNDERCUT TO SUITABLE SOILS AND REPLACED WITH STRUCTURAL FILL. THE EXTENT OF THE UNDERCUT REQUIRED SHOULD BE EVALUATED IN THE FIELD BY AN EXPERIENCED REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER WHILE MONITORING CONSTRUCTION ACTIVITY. THE EVALUATION SHOULD CONSIST OF A COMPREHENSIVE PROOFROLLING PROGRAM AND THOROUGH FIELD EVALUATION DURING CONSTRUCTION.

21. AFTER THE PROOFROLLING OPERATION HAS BEEN COMPLETED AND APPROVED, FINAL SITE GRADING SHOULD PROCEED IMMEDIATELY. IF CONSTRUCTION PROGRESSES DURING WET WEATHER. THE PROOFROLLING OPERATION SHOULD BE REPEATED WITH AT LEAST ON PASS IN EACH DIRECTION IMMEDIATELY PRIOR TO PLACING BASE COURSE IN THE PARKING/DRIVE AREAS. IF UNSTABLE CONDITIONS AREA EXPOSED

Dewbe	erry Eng	9300 H Charlot Phone: Fax: 70 www.d NCBEL	rs Inc arris Cor tte, NC 26 704.509.99 04.509.99 ewberry. S #F-09 _A #C-47	ners Pkv 8269 9918 937 com 29	wy - Si	uite 22
	LAKE JULIAN	SITE IMPROVEMENTS		<b>100% SITE CONSTRUCTION DOCUMENTS</b>	66 LAKE JULIAN RD, ARDEN NC 28704	BUNCOMBE COUNTY, NORTH CAROLINA
	ECH W. MOF CHARI PHON		AD S E NC	T, SU 2820	ITE 8	
SEAL	-Docusigned b	H C	AROL	1.		
SEAL		H C ANDS 4. Mu <sup>4410</sup> 16	AROZ Manie 22 MC M	NR * SIMM		
8/21/	AN:	H C ANDS A. Mu Allo16	AROZ Manie 22 MC M	N K * S M		
8/21/ KEY PL	AN: :		AROZ Manie 22 MC MC	NR * SIM		
8/21/ KEY PL	AN: :		ARO MANU 22 MO	NR * SIM		
8/21/ KEY PL	AN: :	H C A NDS A. Mu 1016	AROL MANE 22 MCM			
8/21/ KEY PL	AN: :		AROL MANE 22 MC			
8/21/ KEY PL	AN: :	H C	AROL MANE 22 MCM			
8/21/ KEY PL	AN: ONS ONS DATE					
8/21/ KEY PL SCALE	AN: AN: DNS DATE N BY VED BY					
8/21/ KEY PL SCALE	AN: AN: DNS DATE N BY VED BY	JEB TM TM				

DEI PROJECT NO: 50160094

SHEET NO.

D

# **GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH** THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Re	quired Ground Stab	ilization Timeframes
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
<ul> <li>Perimeter dikes, swales, ditches, and perimeter slopes</li> </ul>	7	None
(b) High Quality Water (HQW) Zones	7	None
<ul><li>(c) Slopes steeper than 3:1</li></ul>	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	<ul> <li>-7 days for slopes greater than 50' in length and with slopes steeper than 4:1</li> <li>-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones</li> <li>-10 days for Falls Lake Watershed</li> </ul>
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
round stabilization shall b racticable but in no case l ctivity. Temporary ground	e converted to perm onger than 90 calend d stabilization shall b	ction activities, any areas with temporary anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved.
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> cabilize the ground sufficie	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain wil	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the
round stabilization shall b racticable but in no case l ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> cabilize the ground sufficient echniques in the table bel Temporary Stabi	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain wil ow:	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent Stabilization</u>
round stabilization shall b racticable but in no case l ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficient echniques in the table bel	e converted to permonger than 90 calend d stabilization shall b lerated erosion until <b>PECIFICATION</b> ently so that rain wil ow: ilization ered with straw or •	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficient echniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain wil ow: ilization ered with straw or rs	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficient echniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficient chniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control procession without temporary grass seed	e converted to permonger than 90 calend d stabilization shall b lerated erosion until <b>PECIFICATION</b> ently so that rain wil ow: ilization ered with straw or rs ducts with or eed w or other mulch	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent grass seed covered with straw or</u> other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch
ound stabilization shall b acticable but in no case le tivity. Temporary ground arface stable against acce <b>ROUND STABILIZATION S</b> abilize the ground sufficient chniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control procovithout temporary grass see • Appropriately applied strav	e converted to permonger than 90 calend d stabilization shall b lerated erosion until <b>SPECIFICATION</b> ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered
<ul> <li>Found stabilization shall be acticable but in no case leastivity. Temporary ground urface stable against acce</li> <li>ROUND STABILIZATION Set abilize the ground sufficient of the table belem to table belem to the table bele</li></ul>	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch •	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. I not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls
<ul> <li>ound stabilization shall be acticable but in no case leastivity. Temporary ground urface stable against acce</li> <li>ROUND STABILIZATION Set abilize the ground sufficient of the table belem to table belem to the table belem</li></ul>	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch •	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. Inot dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or
ound stabilization shall b acticable but in no case le tivity. Temporary ground aface stable against acce <b>ROUND STABILIZATION S</b> abilize the ground sufficient chniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control process • Appropriately applied strav • Plastic sheeting	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch •	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. Inot dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed
ound stabilization shall b facticable but in no case le tivity. Temporary ground inface stable against acce <b>ROUND STABILIZATION S</b> fabilize the ground sufficient chniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control process without temporary grass see • Appropriately applied strav • Plastic sheeting • DLYACRYLAMIDES (PAMS 1. Select flocculants that	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch end of the straw or rs for the straw or for the straw or for the straw or for the straw or for the straw or rs for the straw or for the straw or for the	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. Inot dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficient chniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control process without temporary grass see • Appropriately applied strav • Plastic sheeting 1. Select flocculants that construction, selecting	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch end or other mulch end s) AND FLOCCULANT at are appropriate for ng from the NC DWR	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. I not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed <u>S</u> r the soils being exposed during <i>List of Approved PAMS/Flocculants</i> .
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficie echniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifier • Hydroseeding • Rolled erosion control process without temporary grass see • Appropriately applied strav • Plastic sheeting 1. Select flocculants the construction, selection 2. Apply flocculants at a	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch end w or other mulch end of before the inlets t	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. I not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed <u>S</u> r the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures.
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficient chniques in the table bel <u>Temporary Stabi</u> • Temporary grass seed cover other mulches and tackifient • Hydroseeding • Rolled erosion control process without temporary grass see • Appropriately applied strav • Plastic sheeting <b>OLYACRYLAMIDES (PAMS</b> 1. Select flocculants that construction, selection 2. Apply flocculants at a 3. Apply flocculants at a	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain will ow: ilization ered with straw or rs ducts with or eed w or other mulch end or other mulch end of the mulch end of the strate of ong from the NC DWR or before the inlets to the concentrations s	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. I not dislodge the soil. Use one of the <u>Permanent Stabilization</u> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed <u>S</u> r the soils being exposed during <i>List of Approved PAMS/Flocculants</i> .
round stabilization shall b racticable but in no case le ctivity. Temporary ground urface stable against acce <b>ROUND STABILIZATION S</b> tabilize the ground sufficie echniques in the table bel <b>Temporary Stabi</b> • Temporary grass seed cover other mulches and tackifier • Hydroseeding • Rolled erosion control processes • Appropriately applied strav • Plastic sheeting <b>OLYACRYLAMIDES (PAMS</b> 1. Select flocculants that construction, selection 2. Apply flocculants at a <i>PAMS/Flocculants</i> at a <i>PAMS/Flocculants</i> at a <i>PAMS/Flocculants</i> ar	e converted to permonger than 90 calend d stabilization shall b lerated erosion until SPECIFICATION ently so that rain willow: ilization ered with straw or rs ducts with or eed w or other mulch end w or other mulch end of before the inlets to the concentrations s and in accordance with	anent ground stabilization as soon as lar days after the last land disturbing e maintained in a manner to render the permanent ground stabilization is achieved. I not dislodge the soil. Use one of the <u>Permanent grass seed covered with straw or</u> other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Rolled erosion control products with grass seed <u>S</u> r the soils being exposed during <i>List of Approved PAMS/Flocculants.</i> o Erosion and Sediment Control Measures. pecified in the NC DWR List of Approved

# EQUIPMENT AND VEHICLE MAINTENANCE

- 1. Maintain vehicles and equipment to prevent discharge of fluids.
- 2. Provide drip pans under any stored equipment.
- 3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- 4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
  - Remove leaking vehicles and construction equipment from service until the problem has been corrected.
  - Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

# ER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

## **NT AND OTHER LIQUID WASTE**

- Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

## **RTABLE TOILETS**

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

### THEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



# learly narked signage Giting device (19\*X24\* h , THE CONCRETE VASHOUT STRUCTURES SHALL E MAINTAINED VHEN THE LIQUID AND/OR OLID REACHES 75X OF THE STRUCTURES PLAN BELOW GRADE WASHOUT STRUCTURE

### **CONCRETE WASHOUTS**

- 1. Do not discharge concrete or cement slurry from the site.
- lot perimeter silt fence.
- be pumped out and removed from project.
- spills or overflow.
- approving authority.
- products, follow manufacturer's instructions.
- caused by removal of washout.

# **HERBICIDES, PESTICIDES AND RODENTICIDES**

- restrictions.
- accidental poisoning.
- 4. Do not stockpile these materials onsite.

# HAZARDOUS AND TOXIC WASTE

# BILIZATION AND MATERIALS HANDLING

1 5	
	1
URE WITH LINER	D
GR STAPLES 1. ACTUAL LOCATION DETERMINED IN FIELD	
NONED IN FIELD CONCRETE CONCRE	

EDNCRETE VASHDUT STRUCTURE EDS TO BE CLEARY MARKED VITH GMARE MUTCHE DEVICE.

TT

2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.

PLAN

3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within

4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.

5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must

6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive

7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the

8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.

9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary

10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance

Store and apply herbicides, pesticides and rodenticides in accordance with label

2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of

Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.

Create designated hazardous waste collection areas on-site.

2. Place hazardous waste containers under cover or in secondary containment.

Do not store hazardous chemicals, drums or bagged materials directly on the ground.

# EFFECTIVE: 04/01/19

		Phone Fax: 70 www.d NCBEI	larris Corners Pkwy - Suite 2 tte, NC 28269 : 704.509.9918 04.509.9937 lewberry.com _S #F-0929 LA #C-478
	I AKF .IUI IAN	SITE IMPROVEMENTS	100% SITE CONSTRUCTION DOCUMENTS 66 LAKE JULIAN RD, ARDEN NC 28704 BUNCOMBE COUNTY, NORTH CAROLINA
		$\mathbf{\nabla}$	ASSOCIATE
100	CHA	RLOTT	EAD ST, SUITE 12 E NC 28208 04-376-6000
SEA	L Docusioned	TH C Boy: AND: Mo. Mc	SCAS 1 Maryces
8/21,	L Docusine 4ESH40679 72023	M. M.	AROL SCAD Maxings 522 STAN MCM
8/21, KEY	DocuSinned 10540679 177 12023 PLAN: LE: 1" =10	0'	MCW
8/21, KEY	DocuSinnee This aut 4E8440679 72023 PLAN:	0'	MCW
8/21, KEY	DocuSinned 10540679 177 12023 PLAN: LE: 1" =10	0'	MCW
8/21, KEY	DocuSinnee 1 1 2023 /2023 PLAN: LE: 1" =11 0' 5'	0'	MCW
8/21, KEY	DocuSinnee 1 1 2023 /2023 PLAN: LE: 1" =11 0' 5'	0'	MCW
8/21, KEY	DocuSinnee 1 1 2023 /2023 PLAN: LE: 1" =11 0' 5'	0'	MCW
8/21, KEY	DocuSinnee 1 1 2023 /2023 PLAN: LE: 1" =11 0' 5'	0'	MCW
8/21, KEY	DocuSinnee 1 1 2023 /2023 PLAN: LE: 1" =11 0' 5'	0'	MCW
8/21, KEY SCA	DocuSinnee 1 Nistaur 4E8 40679 7 7 7 7 7 7 7 7 7 7 7 7 7		20'
8/21, KEY SCA SCA	DocuSined 1 1 4 20 4 06 79 1 2 02 3 PLAN: 1 2 0' 5' 1 3 10 NS 1 3 10 NS 1 3 10 NS 1 4 2 0 4 06 79 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7		20'

C0.03

DEI PROJECT NO: 50160094

SHEET NO.

D

# PART III

# SELF-INSPECTION, RECORDKEEPING AND REPORTING

### SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

			Item to Document	Documentation Requirements
Inspect	Frequency (during normal business hours)	Inspection records must include:	(a) Each E&SC Measure has been installed and does not significantly deviate from the	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device	locations, dimensions and relative elevations shown on the approved E&SC Plan.	and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain	<ul> <li>approved by the Division.</li> <li>1. Identification of the measures inspected,</li> <li>2. Date and time of the inspection,</li> <li>3. Name of the person performing the inspection,</li> </ul>	(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(3) Stormwater	event ≥ 1.0 inch in 24 hours At least once per	<ul> <li>4. Indication of whether the measures were operating properly,</li> <li>5. Description of maintenance needs for the measure,</li> <li>6. Description, evidence, and date of corrective actions taken.</li> <li>1. Identification of the discharge outfalls inspected,</li> </ul>	(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved
discharge outfalls (SDOs)	7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	<ol> <li>Date and time of the inspection,</li> <li>Name of the person performing the inspection,</li> <li>Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,</li> <li>Indication of visible sediment leaving the site,</li> </ol>	(d) The maintenance and repair requirements for all E&SC Measures have been performed.	ground cover specifications. Complete, date and sign an inspection report.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain	<ul> <li>5. Indication of visible sediment leaving the site,</li> <li>6. Description, evidence, and date of corrective actions taken.</li> <li>If visible sedimentation is found outside site limits, then a record of the following shall be made:</li> <li>1. Actions taken to clean up or stabilize the sediment that has left the site limits,</li> </ul>	(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.
5) Streams or wetlands onsite or offsite where accessible)	event $\geq$ 1.0 inch in 24 hours At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	<ul> <li>2. Description, evidence, and date of corrective actions taken, and</li> <li>3. An explanation as to the actions taken to control future releases.</li> <li>If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: <ol> <li>Description, evidence and date of corrective actions taken, and</li> <li>Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.</li> </ol> </li> </ul>	site and available for agency inspectors at all	above, the following items shall be kept on the times during normal business hours, unless the on based on unique site conditions that make thi
(6) Ground stabilization measures	After each phase of grading	<ol> <li>The phase of grading (installation of perimeter E&amp;SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).</li> <li>Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.</li> </ol>	<ul> <li>(b) Records of inspections made during the required observations on the In a similar inspection form that include</li> </ul>	u of the required paper copies will be allowed if
NOTE: The rai	n inspection reset	s the required 7 calendar day inspection requirement.		e of Intent and older inspection records shall be rs after project completion and made available



# NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

В

## PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

3

# **SECTION B: RECORDKEEPING**

## 1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

upon request. [40 CFR 122.41]

### **SECTION C: REPORTING**

- **1. Occurrences that must be reported** Permittees shall report the following occurrences:
- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
  - They are 25 gallons or more,
- (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- environment.

# **2.** Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Tir
(a) Visible sediment	• Within 24
deposition in a	Within 7 c
stream or wetland	sediment a
	Division st
	case-by-ca
	• If the strea
	related cau
	monitoring
	determine
	with the fe
(b) Oil spills and	Within 24
release of	shall includ
hazardous	location of
substances per Item	
1(b)-(c) above	
(c) Anticipated	• A report a
bypasses [40 CFR	The report
122.41(m)(3)]	effect of th
(d) Unanticipated	Within 24
bypasses [40 CFR	Within 7 c
122.41(m)(3)]	quality and
(e) Noncompliance	Within 24
with the conditions	• Within 7 c
of this permit that	noncompli
may endanger	including e
health or the	been corre
environment[40	continue; a
CFR 122.41(I)(7)]	prevent re
	Division st
	case-by-ca

# PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

• They are less than 25 gallons but cannot be cleaned up within 24 hours, • They cause sheen on surface waters (regardless of volume), or • They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA

(c) Noncompliance with the conditions of this permit that may endanger health or the

imeframes (After Discovery) and Other Requirements

hours, an oral or electronic notification. calendar days, a report that contains a description of the t and actions taken to address the cause of the deposition. taff may waive the requirement for a written report on a case basis.

eam is named on the NC 303(d) list as impaired for sedimentauses, the permittee may be required to perform additional ing, inspections or apply more stringent practices if staff e that additional requirements are needed to assure compliance federal or state impaired-waters conditions.

hours, an oral or electronic notification. The notification ude information about the date, time, nature, volume and of the spill or release.

at least ten days before the date of the bypass, if possible. ort shall include an evaluation of the anticipated quality and the bypass.

hours, an oral or electronic notification.

calendar days, a report that includes an evaluation of the nd effect of the bypass.

hours, an oral or electronic notification.

calendar days, a report that contains a description of the pliance, and its causes; the period of noncompliance, exact dates and times, and if the noncompliance has not rected, the anticipated time noncompliance is expected to and steps taken or planned to reduce, eliminate, and eoccurrence of the noncompliance. [40 CFR 122.41(I)(6). staff may waive the requirement for a written report on a ase basis.

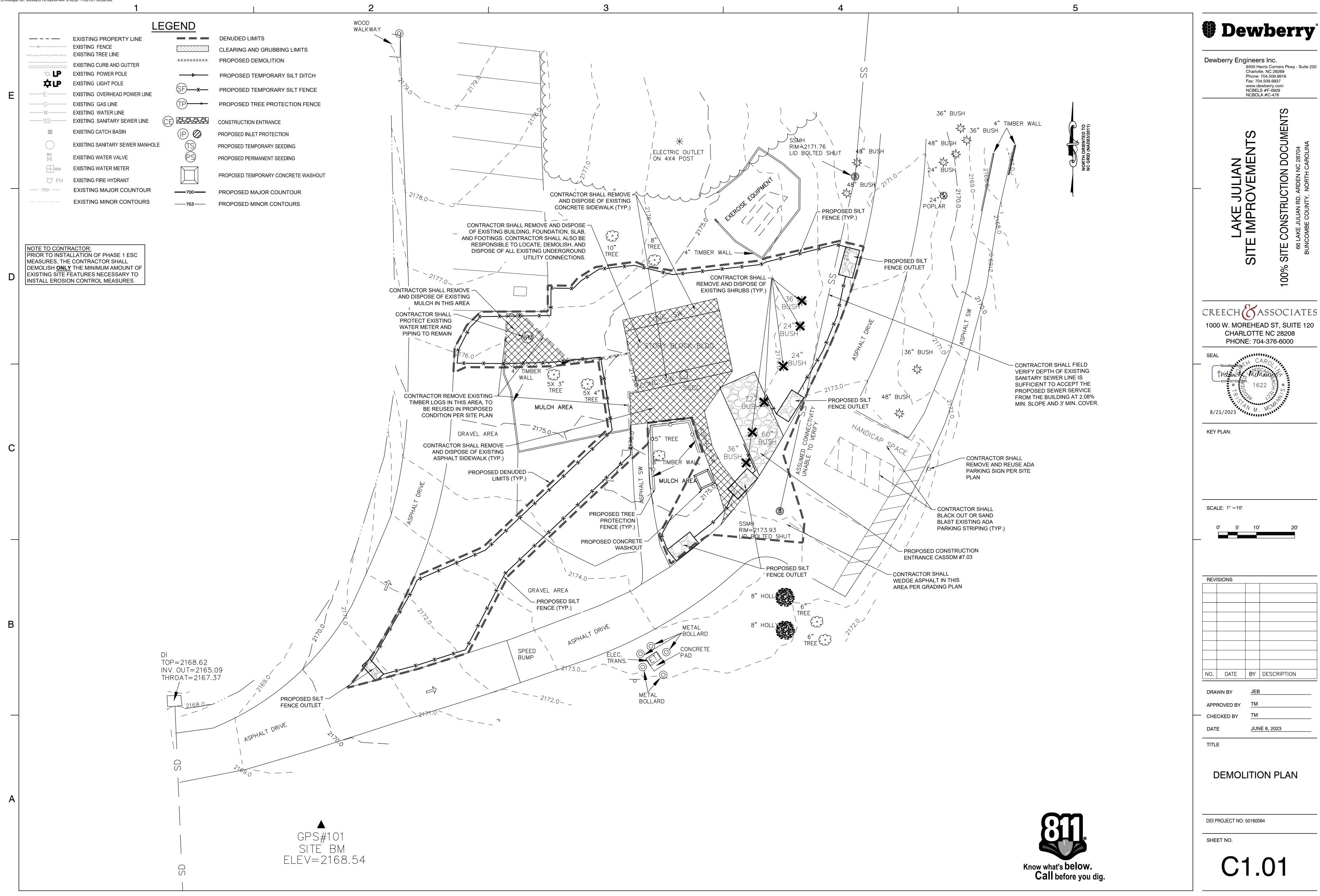
# EFFECTIVE: 04/01/19

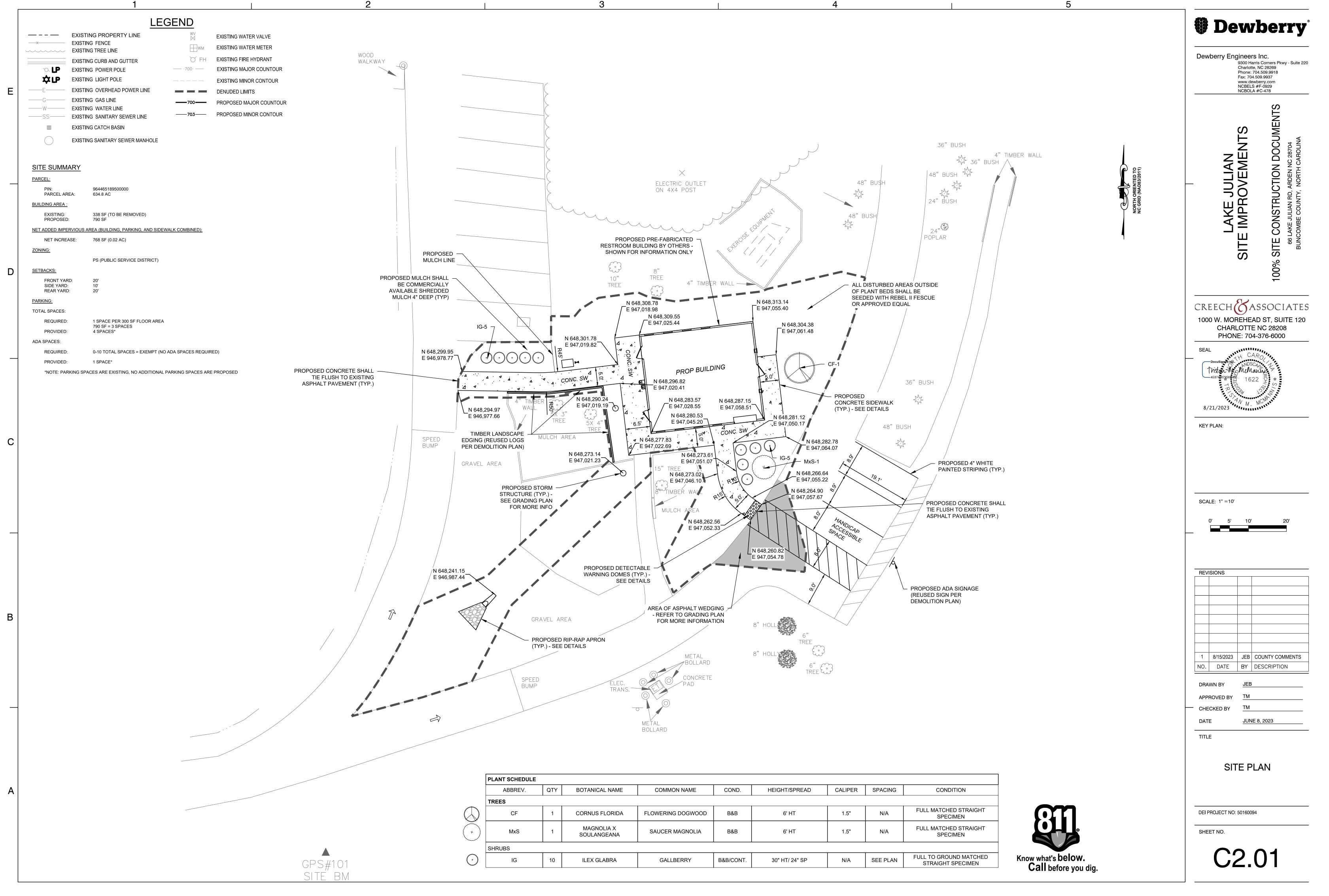
		Corners Pkwy - Suite 2 C 28269 509.9918 .9937 ry.com -0929 478
LAKE JULIAN	SITE IMPROVEMENTS	100% SITE CONSTRUCTION DOCUMENTS 66 Lake JULIAN RD, ARDEN NC 28704 BUNCOMBE COUNTY, NORTH CAROLINA
CHARL	EHEAD	ST, SUITE 120 C 28208
SEAL DocuSigned Lot Instan May 4E8749674560446	H CARC ANDSCAS McMari 1622	NV VV KRCH
8/21/2023	N M. M	MA
KEY PLAN:		
SCALE: 1" =10' 0' 5'	10'	20'
	10'	20'
	10'	20'
0' 5'	10'	20'
0' 5'		20'
0' 5'		20'
0' 5'		20'
0' 5' REVISIONS		
0' 5' REVISIONS 2 0 1 0 1 0 1 0 1 0 1 1	BY DES	SCRIPTION

DEI PROJECT NO: 50160094

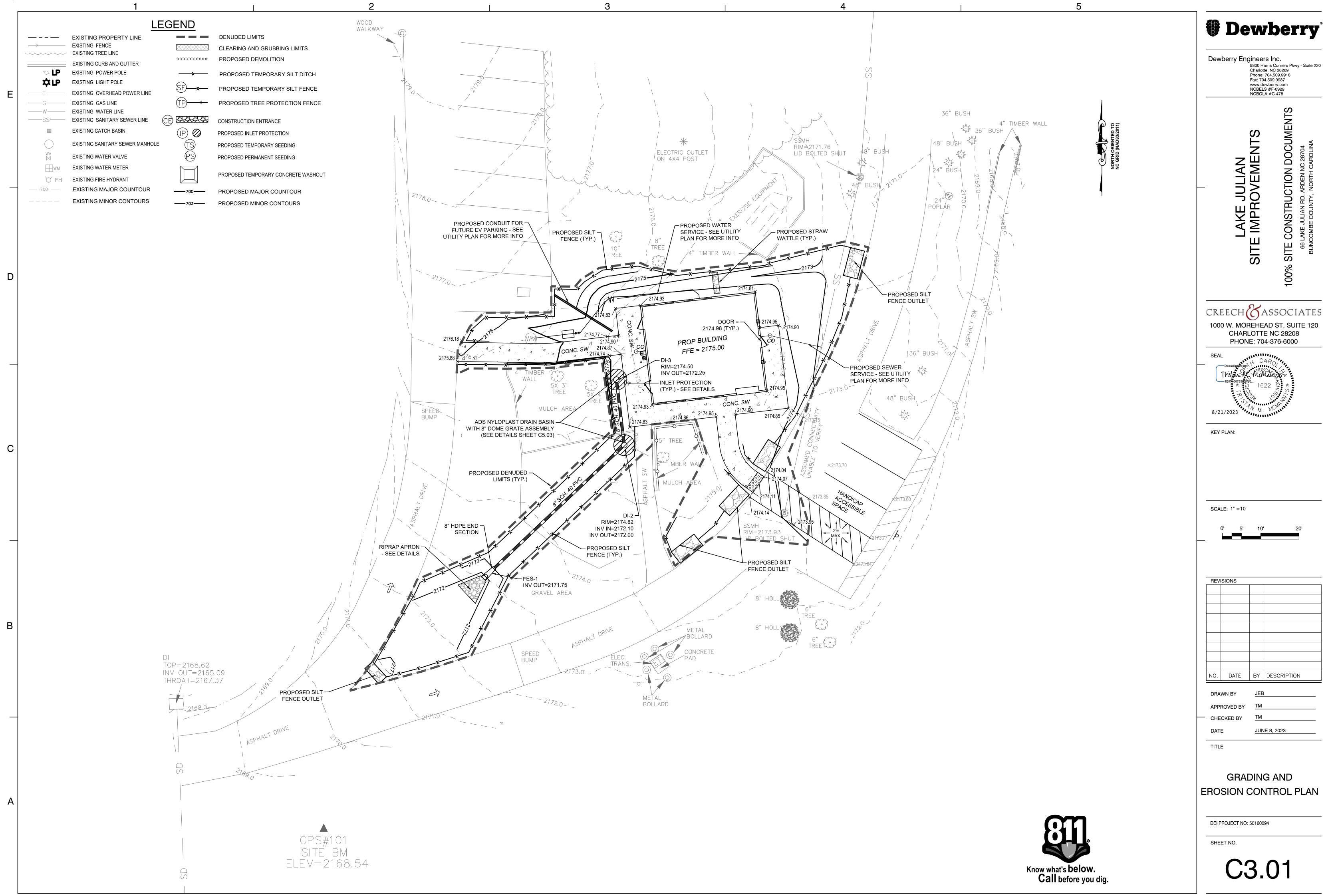
C0.04

SHEET NO.

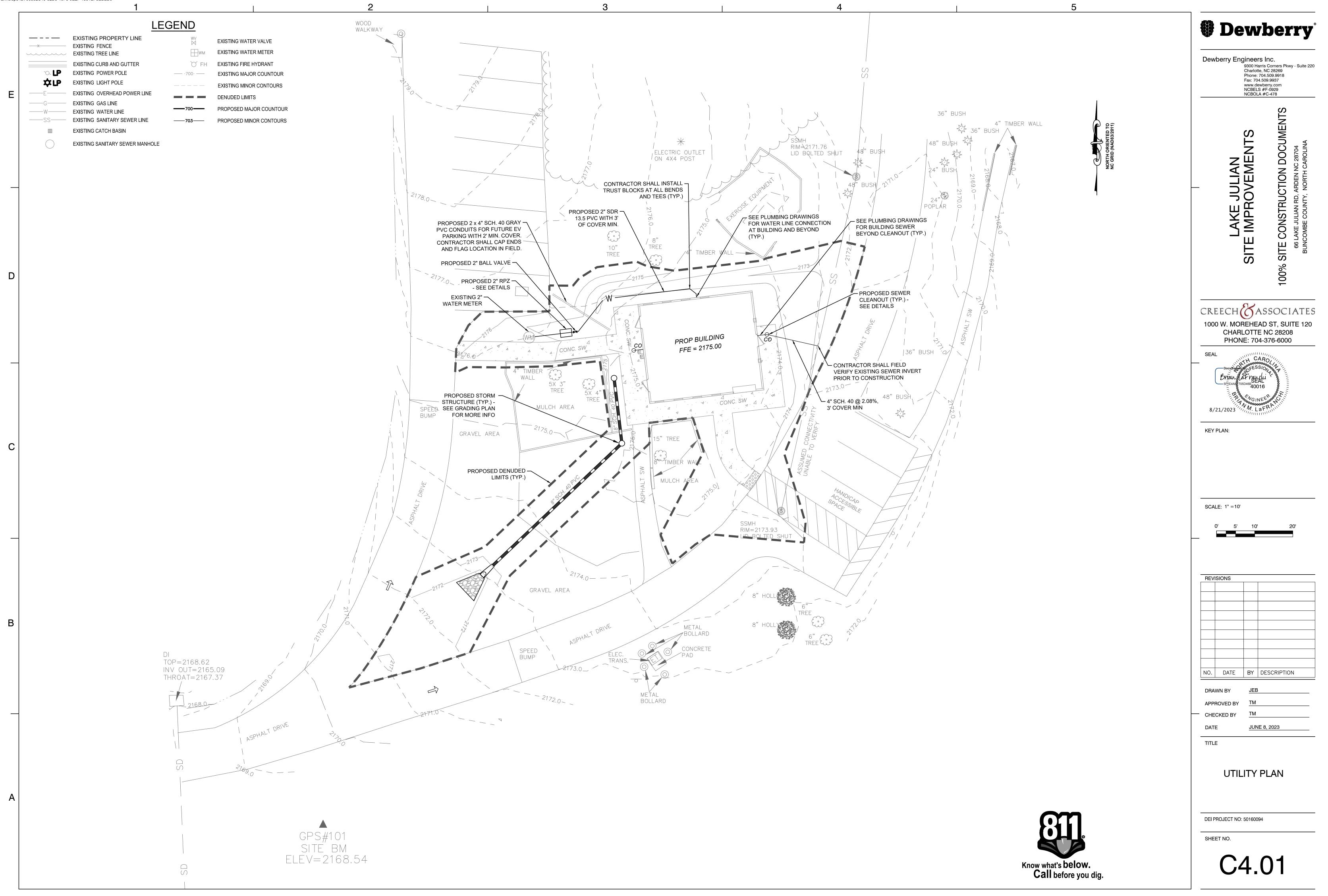


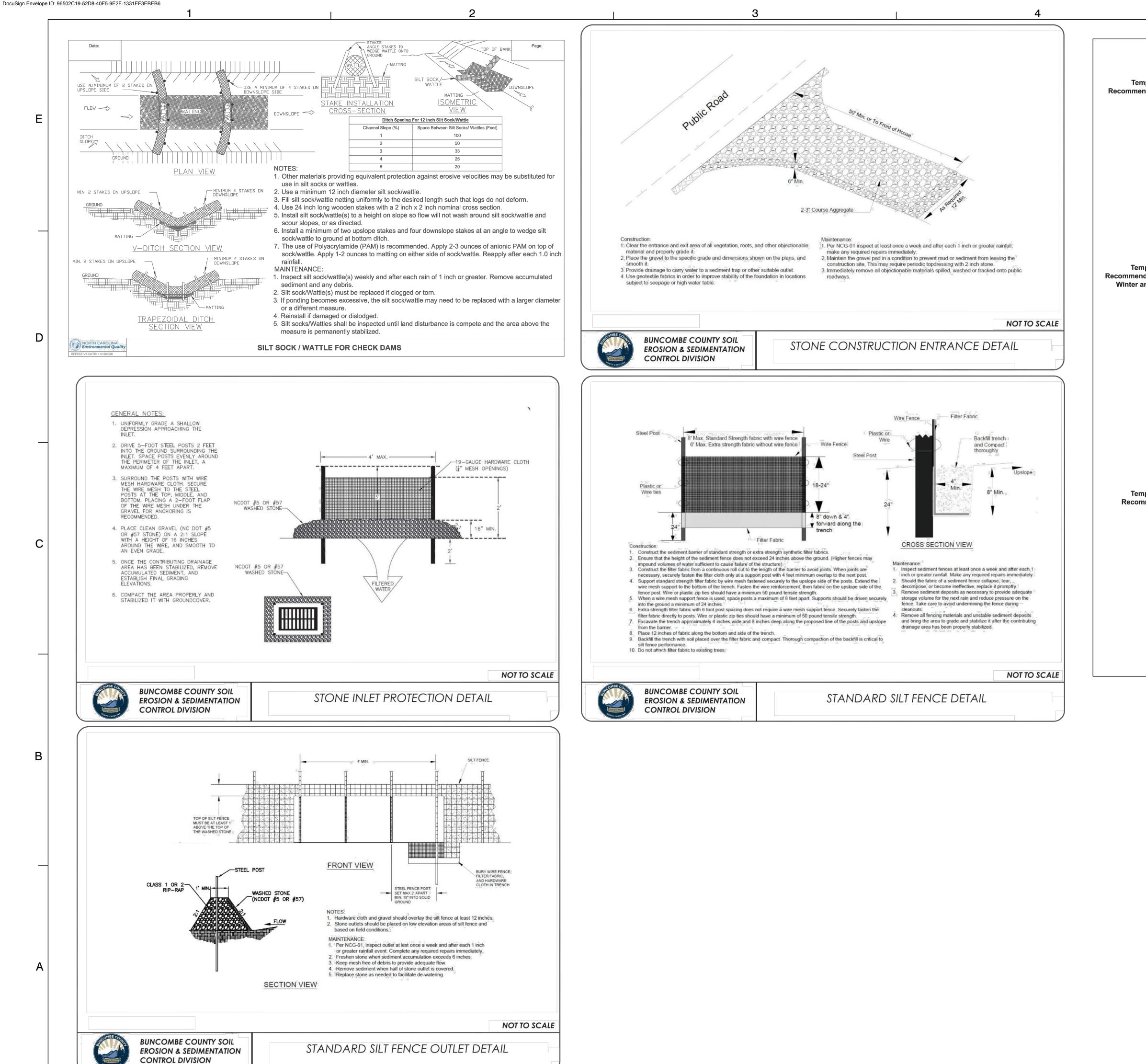


PLANT SCHEDULE								
ABBREV.	QTY	BOTANICAL NAME	COMMON NAME	COND.	HEIGHT/SPREAD	CALIPER	SPACING	
TREES								
CF	1	CORNUS FLORIDA	FLOWERING DOGWOOD	B&B	6' HT	1.5"	N/A	FULL
MxS	1	MAGNOLIA X SOULANGEANA	SAUCER MAGNOLIA	B&B	6' HT	1.5"	N/A	FULL
SHRUBS								
IG	10	ILEX GLABRA	GALLBERRY	B&B/CONT.	30" HT/ 24" SP	N/A	SEE PLAN	FULL T STF
	ABBREV. TREES CF MxS SHRUBS	ABBREV. QTY TREES CF 1 MxS 1 SHRUBS	ABBREV.     QTY     BOTANICAL NAME       TREES       CF     1     CORNUS FLORIDA       MxS     1     MAGNOLIA X SOULANGEANA	ABBREV.     QTY     BOTANICAL NAME     COMMON NAME       TREES     CF     1     CORNUS FLORIDA     FLOWERING DOGWOOD       MxS     1     MAGNOLIA X SOULANGEANA     SAUCER MAGNOLIA	ABBREV.       QTY       BOTANICAL NAME       COMMON NAME       COND.         TREES       CF       1       CORNUS FLORIDA       FLOWERING DOGWOOD       B&B         MxS       1       MAGNOLIA X SOULANGEANA       SAUCER MAGNOLIA       B&B         SHRUBS       Image: Shrubbaa set	ABBREV.       QTY       BOTANICAL NAME       COMMON NAME       COND.       HEIGHT/SPREAD         TREES	ABBREV.       QTY       BOTANICAL NAME       COMMON NAME       COND.       HEIGHT/SPREAD       CALIPER         TREES	ABBREV.       QTY       BOTANICAL NAME       COMMON NAME       COND.       HEIGHT/SPREAD       CALIPER       SPACING         TREES



DocuSign Envelope ID: 96502C19-52D8-40F5-9E2F-1331EF3EBEB6

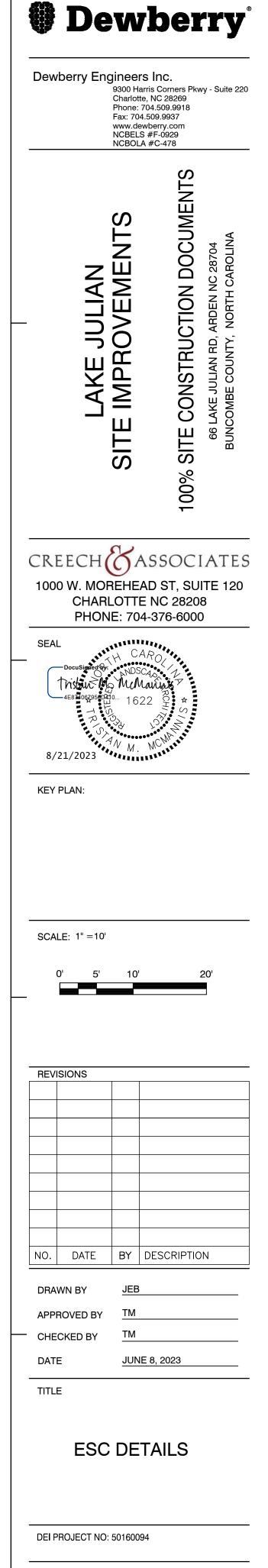




### 5

NC	DEQ - TEMPORARY SEE	DING SCHEDULE
Table 6.10c	Seeding mixture	
mporary Seeding	Species	Rate (Ib/acre)
endations for Fall	Rye (grain)	120
	Seeding dates Mountains—Aug. 15 - Dec. 1	5
	Coastal Plain and Piedmont-	
	Soil amendments	
		00 lb/acre ground agricultural limestone rtilizer.
	Mulch	
		chor straw by tacking with asphalt, netting, disk with blades set nearly straight can be ol.
	Maintenance	
	Repair and refertilize damage lb/acre of nitrogen in March. cover beyond June 15, overs	ed areas immediately. Topdress with 50 If it is necessary to extent temporary eed with 50 lb/acre Kobe (Piedmont and ountains) lespedeza in late February or
Table 6.10a	Seeding mixture	
nporary Seeding	Species	Rate (Ib/acre)
ndations for Late	Rye (grain)	120
and Early Spring	Annual lespedeza (Kobe in Piedmont and Coastal P	
	Korean in Mountains)	50
	Omit annual lespedeza wher extend beyond June.	n duration of temporary cover is not to
	Seeding dates	
	Mountains—Above 2500 feet:	Feb. 15 - May 15
	Below 2500 feet:	Feb. 1- May 1
	Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 1	5
		5
	Soil amendments Follow recommendations of a agricultural limestone and 750	soil tests or apply 2,000 lb/acre ground ) lb/acre 10-10-10 fertilizer.
	Mulch	
	Apply 4,000 lb/acre straw. And	chor straw by tacking with asphalt, netting, lisk with blades set nearly straight can be ol.
	Maintenance	
		adequate. Reseed, refertilize and mulch or other damage.
Table 6.10b	Seeding winter	
nporary Seeding	Seeding mixture Species	Rate (lb/acre)
nmendations for	German millet	40
Summer		
	In the Piedmont and Mountain substituted at a rate of 50 lb/a	is, a small-stemmed Sudangrass may be cre.
	Seeding dates	
	Mountains—May 15 - Aug. 15 Piedmont—May 1 - Aug. 15 Coastal Plain—Apr. 15 - Aug.	
	Soil amendments	
		soil tests or apply 2,000 lb/acre ground ) lb/acre 10-10-10 fertilizer.
	Mulch	
		chor straw by tacking with asphalt, netting, lisk with blades set nearly straight can be ol.
	Maintenance	
	Refertilize if growth is not fully immediately following erosion	adequate. Reseed, refertilize and mulch or other damage.

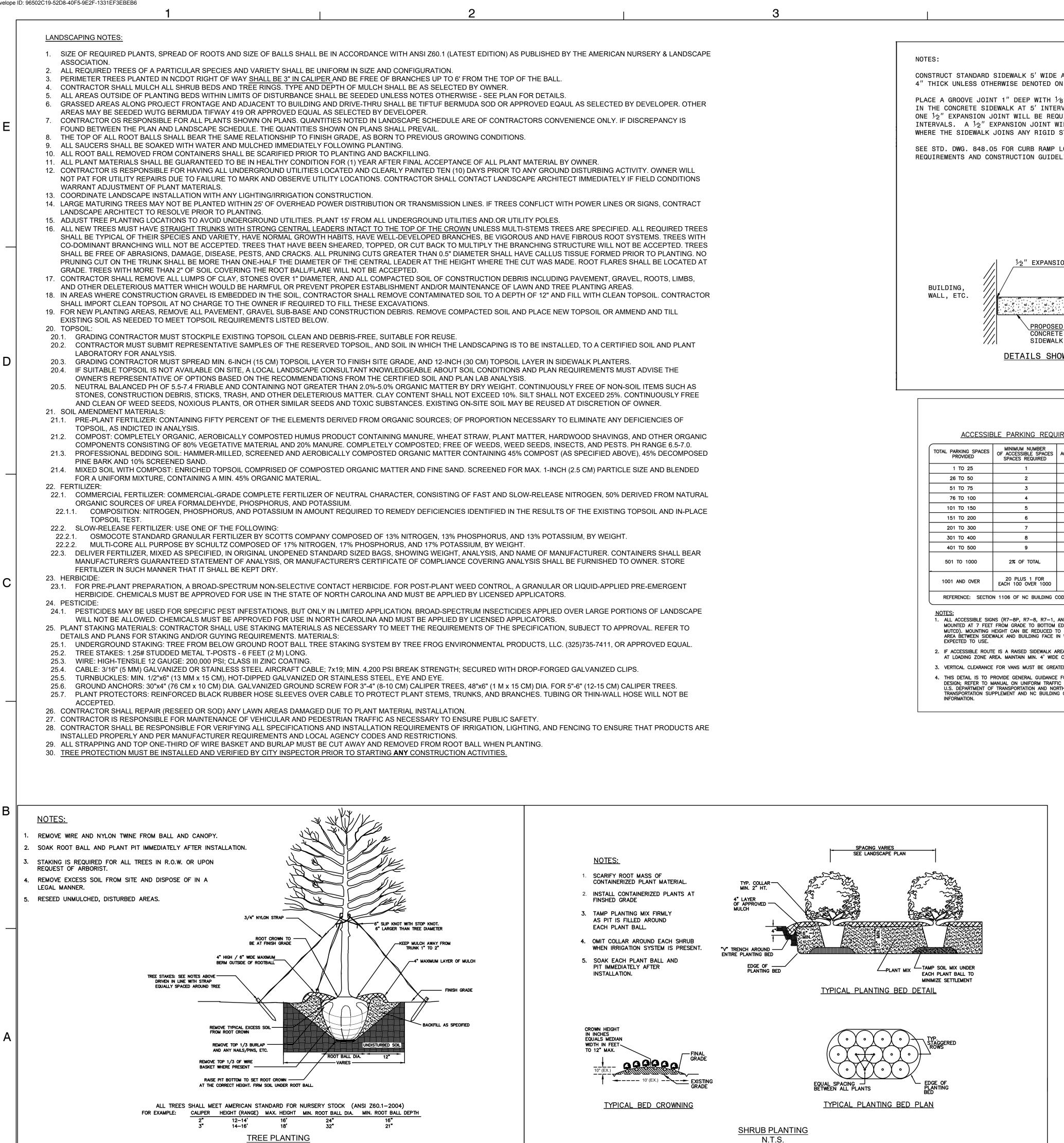
immediately following erosion or other damage.





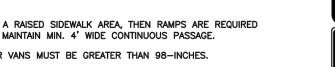
SHEET NO.

C5.01



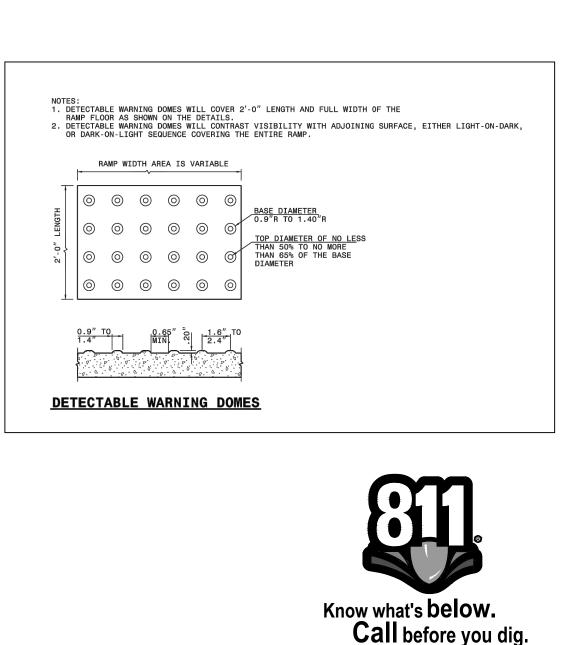
N.T.S.

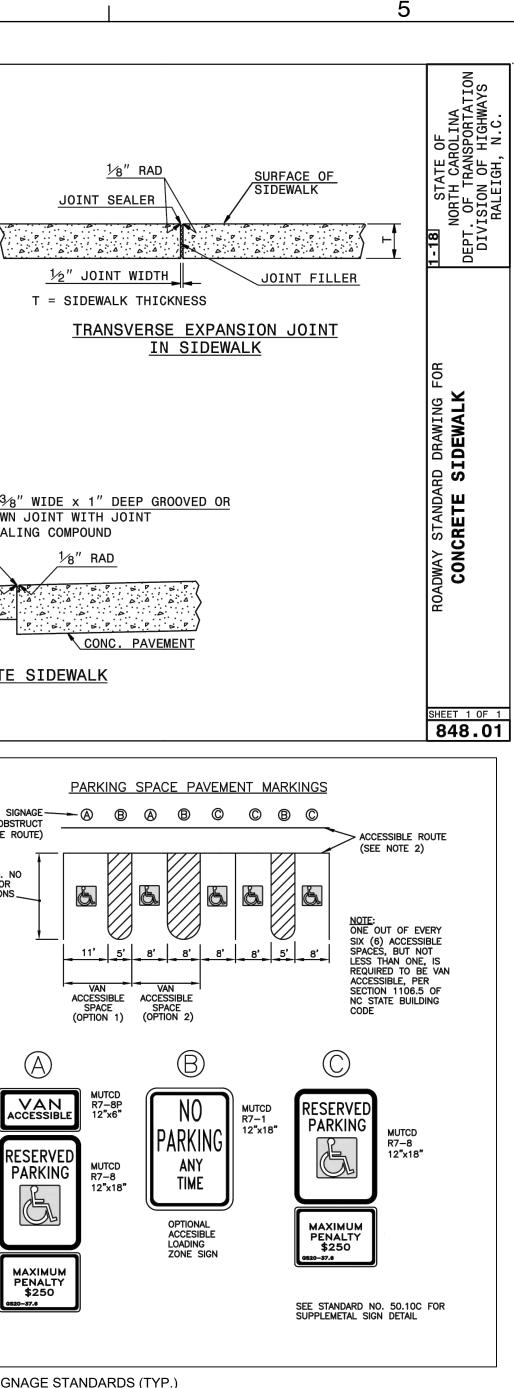
Y THE AMERICAN NURSERY & LANDSCAPE	NOTES:
	CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.
IL AS SELECTED BY DEVELOPER. OTHER	PLACE A GROOVE JOINT 1" DEEP WITH $\frac{1}{8}$ " RADII IN THE CONCRETE SIDEWALK AT 5' INTERVALS.
INIENCE ONLY. IF DISCREPANCY IS	ONE $\frac{1}{2}$ " EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A $\frac{1}{2}$ " EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
	SEE STD. DWG. 848.05 FOR CURB RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.
OWNER. DISTURBING ACTIVITY. OWNER WILL CT IMMEDIATELY IF FIELD CONDITIONS	REQUINEMENTS AND CONCILICATION GENEERLES.
H POWER LINES OR SIGNS, CONTRACT	
ES ARE SPECIFIED. ALL REQUIRED TREES E FIBROUS ROOT SYSTEMS. TREES WITH UCTURE WILL NOT BE ACCEPTED. TREES TISSUE FORMED PRIOR TO PLANTING. NO DE. ROOT FLARES SHALL BE LOCATED AT E PAVEMENT, GRAVEL, ROOTS, LIMBS, E PLANTING AREAS.	BUILDING,
FILL WITH CLEAN TOPSOIL. CONTRACTOR	WALL, ETC.
ED, TO A CERTIFIED SOIL AND PLANT	CONCRETE PROP. C&G SIDEWALK
EWALK PLANTERS. QUIREMENTS MUST ADVISE THE	DETAILS SHOWING JOINTS IN CONCRET
LY FREE OF NON-SOIL ITEMS SUCH AS DT EXCEED 25%. CONTINUOUSLY FREE AT DISCRETION OF OWNER.	
ELIMINATE ANY DEFICIENCIES OF	
WOOD SHAVINGS, AND OTHER ORGANIC ECTS, AND PESTS. PH RANGE 6.5-7.0. S SPECIFIED ABOVE), 45% DECOMPOSED	ACCESSIBLE PARKING REQUIREMENTS (MUST NOT O ACCESSIBLE TOTAL PARKING SPACES OF ACCESSIBLE SPACES ACCESSIBLE SPACES REQUIRED PROVIDED OF ACCESSIBLE SPACES REQUIRED SEE STD
(2.5 CM) PARTICLE SIZE AND BLENDED	PROVIDEDOF ADDED SPACES REQUIREDTO BE VAN ACCESSIBLESEE STD.1 TO 25111DIMENSIO
(2.3 UM) MAKTIGLE SIZE AND DELINDED	26 TO 50         2         1<
NITROGEN, 50% DERIVED FROM NATURAL	51 TO 75 3 1
	76 TO 100         4         1           101 TO 150         5         1
OF THE EXISTING TOPSOIL AND IN-PLACE	101 TO 150         5         1           151 TO 200         6         1
	151 TO 200         6         1           201 TO 300         7         2
SIUM, BY WEIGHT.	201 10 300         7         2           301 TO 400         8         2
JFACTURER. CONTAINERS SHALL BEAR	401 TO 500 9 2
JFACTURER. CONTAINERS SHALL BEAR BE FURNISHED TO OWNER. STORE	501 TO 1000 2% OF TOTAL 1 IN EVERY 6 ACCESSIBLE SPACES
R LIQUID-APPLIED PRE-EMERGENT	1001 AND OVER     20 PLUS 1 FOR EACH 100 OVER 1000     1 IN EVERY 6 ACCESSIBLE SPACES
	REFERENCE: SECTION 1106 OF NC BUILDING CODE
OVER LARGE PORTIONS OF LANDSCAPE	NOTES: 1. ALL ACCESSIBLE SIGNS (R7-8P, R7-8, R7-1, AND 50.10C) SHALL BE
SUBJECT TO APPROVAL. REFER TO	MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (PER MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT
325)735-7411, OR APPROVED EQUAL.	
	EXPECTED TO USE. 2. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA. MAINTAIN MIN. 4' WIDE CONTINUOUS PASSAGE.

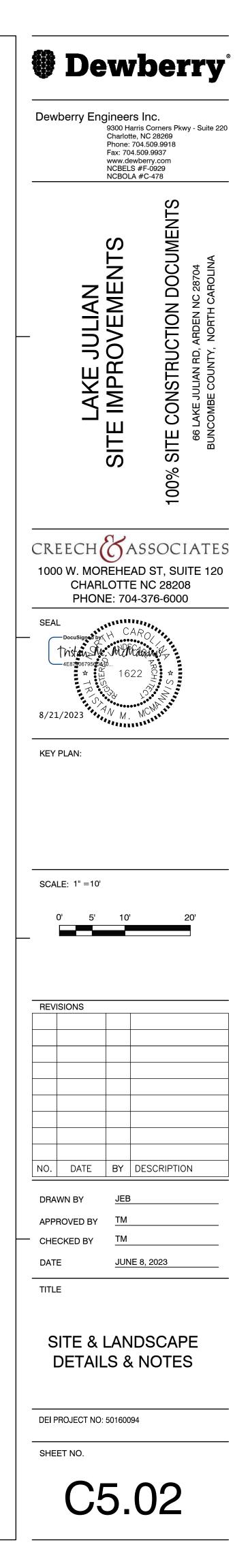


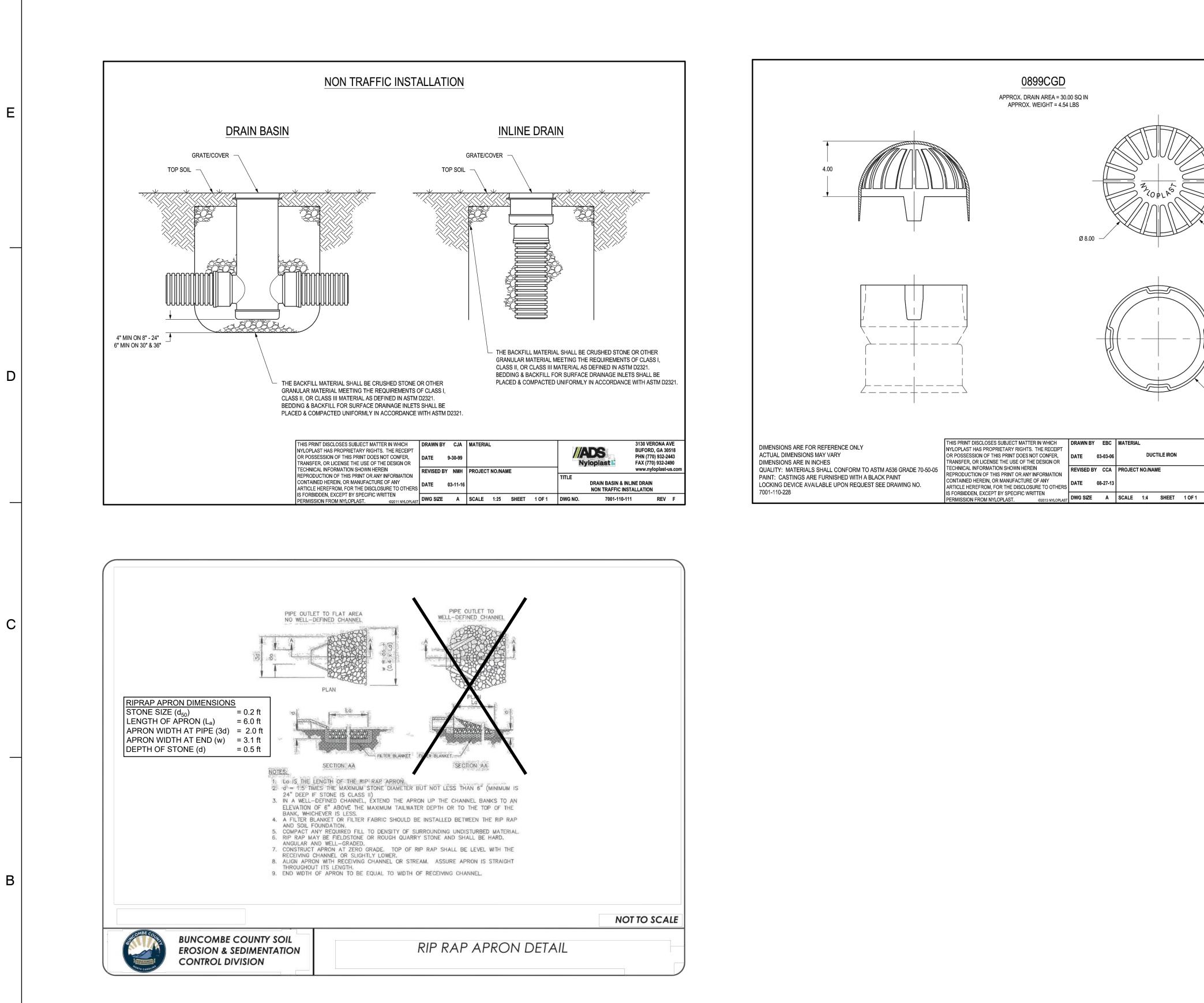
4. THIS DETAIL IS TO PROVIDE GENERAL GUIDANCE FOR PARKING LAYOUT AND DESIGN; REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF RANSPORTATION SUPPLEMENT AND NC BUILDING CODE FOR ADDITIONAL

> ACCESSIBLE PARKING AND SIGNAGE STANDARDS (TYP.) NOTE TO SCALE









2

Α

8" INLINE DRAIN ÓR 8" DRAIN BASIN BODY TOP

– 8" DOME GRATE

4				-								_
	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH	DRAWN BY	EBC	MATERIA	۸L					3130 VERONA	A AVE	
DIMENSIONS ARE FOR REFERENCE ONLY	NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT							1//	NDS.	BUFORD, GA	30518	
ACTUAL DIMENSIONS MAY VARY	OR POSSESSION OF THIS PRINT DOES NOT CONFER.	DATE	03-03-06		DUC	TILE IRON				PHN (770) 932	2-2443	
DIMENSIONS ARE IN INCHES	TRANSFER, OR LICENSE THE USE OF THE DESIGN OR							N	yloplast 📓	FAX (770) 932	-2490	
	TECHNICAL INFORMATION SHOWN HEREIN	REVISED B	V CCA	PROJEC		ME				www.nyloplas	st-us.co	m
	REPRODUCTION OF THIS PRINT OR ANY INFORMATION				I NOMA			TITLE				
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT	CONTAINED HEREIN, OR MANUFACTURE OF ANY	DATE	00 07 40					1				
	ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS	DATE	08-27-13						8 IN DOME GRATE	ASSEMBLY		
7004 440 000	IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN											-
	PERMISSION FROM NYLOPIAST	DWG SIZE	Α	SCALE	1:4	SHEET	1 OF 1	DWG NO.	7001-110-19	7 RE\	V C	

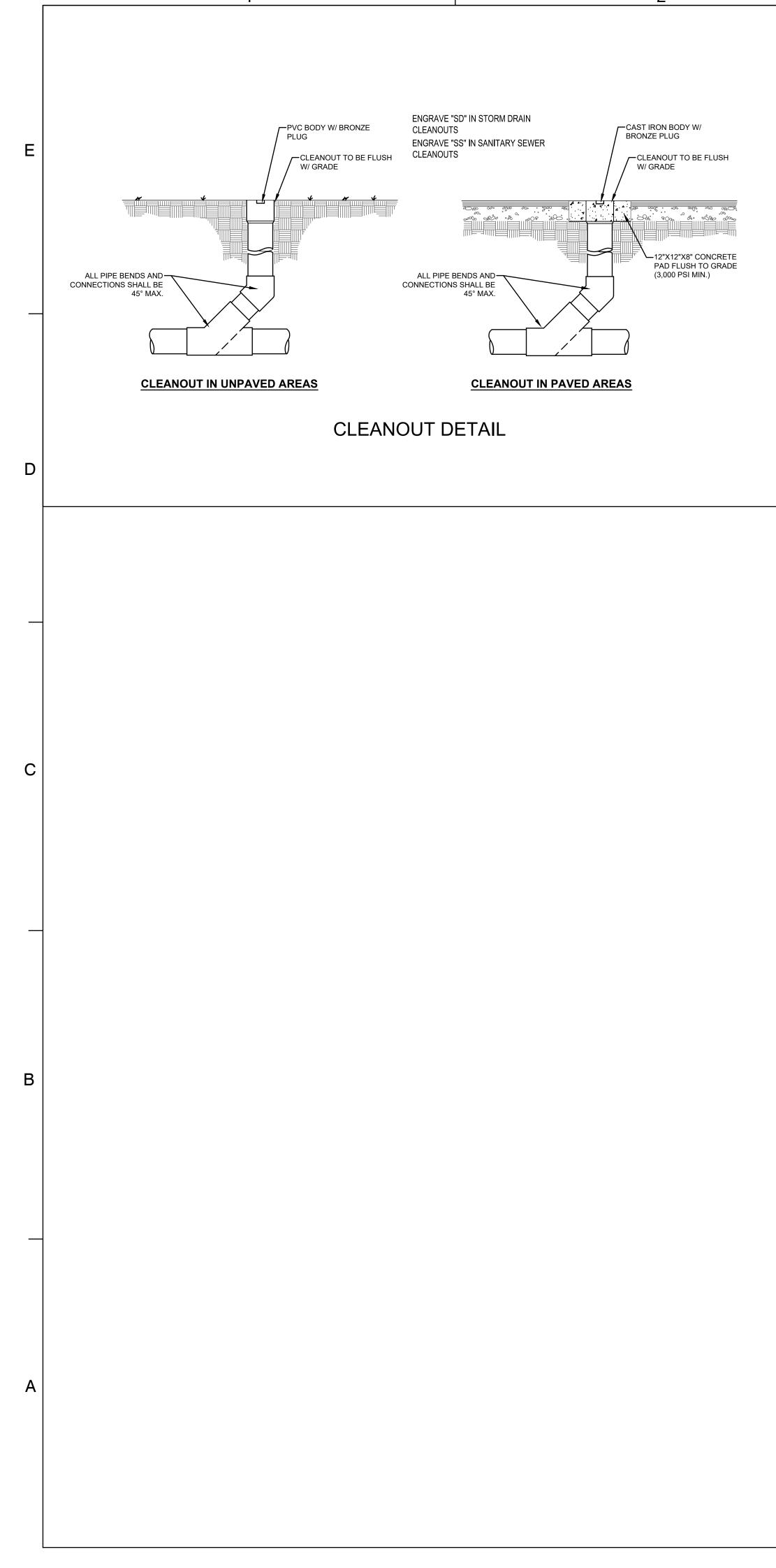
3

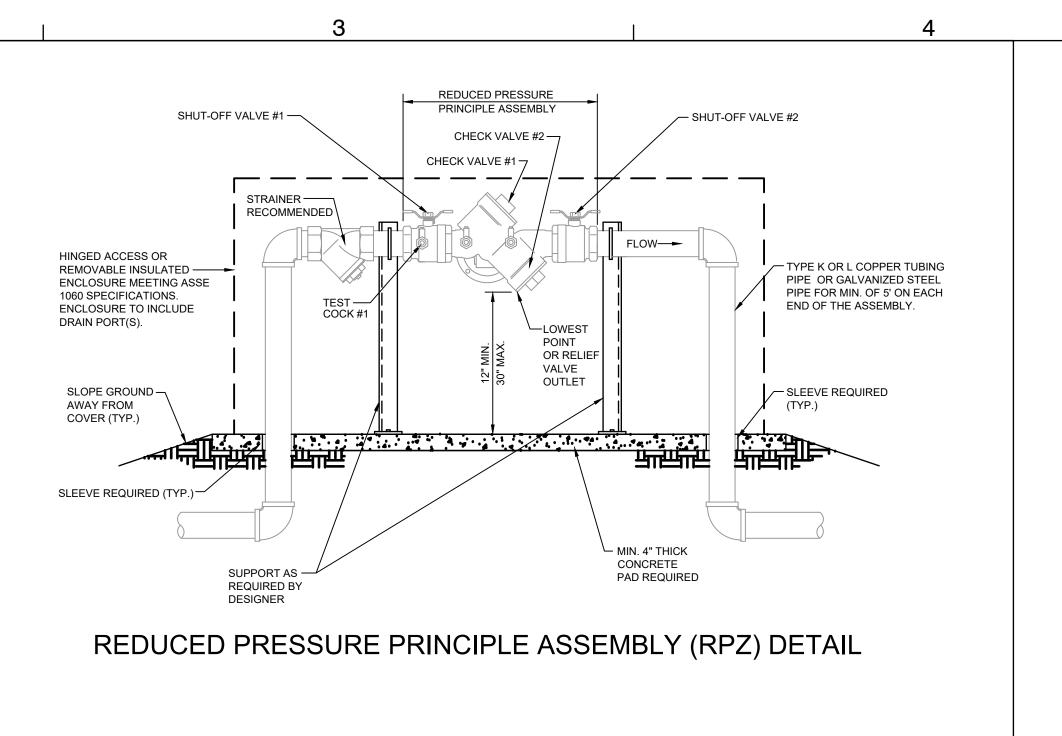
De		<b>b</b>	<b>e1</b>	ry
Dewberry Eng	9300 H Charlot Phone: Fax: 70 www.d NCBEL		269 9918 7 om 9	vy - Suite 22
LAKE JULIAN	SITE IMPROVEMENTS		<b>100% SITE CONSTRUCTION DOCUMENTS</b>	66 LAKE JULIAN RD, ARDEN NC 28704 BUNCOMBE COUNTY, NORTH CAROLINA
CREECH	REHE	AD ST	, SU	TE 120
PHON				
SEAL	H C	ARO		
4E872067955D44 ★ H		22 22	S ☆ S/	
ア の 8/21/2023	°>y 1 <sub>N</sub> M	LO3 MCMA		
KEY PLAN:	*****	11111.		
SCALE: 1" =10'				
0' 5'	10		:	20'
REVISIONS				
NO. DATE	BY	DESCF	RIPTIO	N
DRAWN BY	<u>JEB</u> TM			
CHECKED BY	TM			
	JUN	IE 8, 202	3	
TITLE				
STOR	MC	ΕΤΑ	ILS	
	E01000	0.4		
DEI PROJECT NO:	ວບ1600	94		
SHEET NO.				

C5.03



5







C5.04

SHEET NO.

DEI PROJECT NO: 50160094

	,	Phone: Fax: 70 www.de NCBEL	tte, NC 2 704.509 4.509.99 ewberry. S #F-09 _A #C-4	0.9918 037 com 029		
	LAKE JULIAN	SITE IMPROVEMENTS		<b>100% SITE CONSTRUCTION DOCUMENTS</b>	66 LAKE JULIAN RD, ARDEN NC 28704	
CREEC 1000 W.						
CH	HARL	OTT.	E NC	1, 30 2820 6-6000	8	1
Braze 8/21/20		¢ <sub>N</sub> GI	AROZ SION LUI AL DIG NEER AE RP	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1		
8/21/20 KEY PLAN:		<sup>¢</sup> NGU	AROZ SION LUI AL D16	A Company of the second of the		
KEY PLAN:		<sup>¢</sup> NGU	AROZ SION AL DIG NEER AL	L'AND CONSIGNATION CONSIGNATICON CONSIGNATI CONSIGNATICON CONSIGNATI CONSIGNATI CONSICI CONSIGNATI CONSIGNATI CONSIGNATI CONSIGNATI CON	20'	
KEY PLAN: SCALE: 1"	=10'	ÈNG II M. L M. L	AROZ SION AL DIG NEER AL		20'	
KEY PLAN: SCALE: 1" 0' REVISIONS	=10'		AROZ SION LUIT AL DIG NEER AL DIG NEER AL DIG			
KEY PLAN:         SCALE:       1"         0'	=10' 5' 5 TE	€ № G II / М. L //////// ВҮ				
KEY PLAN:	=10' 5' TE					
KEY PLAN: SCALE: 1" O' REVISIONS A REVISIONS A A NO. DA DRAWN BY	=10' 5' TE			RIPTIC		