



July 24, 2024

North Carolina Department of Environmental Quality
Division of Waste Management – Special Remediation Branch
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Attention: Mr. Kevin Kelt email: Kevin.Kelt@ncdenr.gov
Hydrogeologist

Reference: **Remedial Investigation – Topographic and Boundary Survey**
Task Order 825DP-6
Northgate Park
300 W Club Blvd, Durham, NC 27704
NCDEQ ID No. NONCD0000825

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report to the North Carolina Department of Environmental Quality (NCDEQ), Pre-Regulatory Landfill Unit (Unit) summarizing surveying activities conducted at the above-referenced site in Durham, North Carolina. S&ME completed this task order in general conformance with our approved proposal No. 23050630Y, dated April 15, 2024, for Task Order 825DP-6 under state contract N42621-B, dated January 4, 2022.

S&ME subcontracted a North Carolina registered land surveyor (Bateman Civil Surveying) to conduct a topographic and boundary survey of the Northgate Park noted above as shown on the attached drawing. S&ME staff accompanied the surveyors during the fieldwork, which was performed between April 29, 2024, and July 11, 2024.

The topographic and boundary survey will be used to prepare the Draft Remedial Action Plans (RAP) for the site that will be prepared by S&ME.

Please feel free to contact Gerald Paul at 919-872-2660 if you have questions.

Sincerely,

S&ME, Inc.

Handwritten signature of Gerald Paul in black ink.

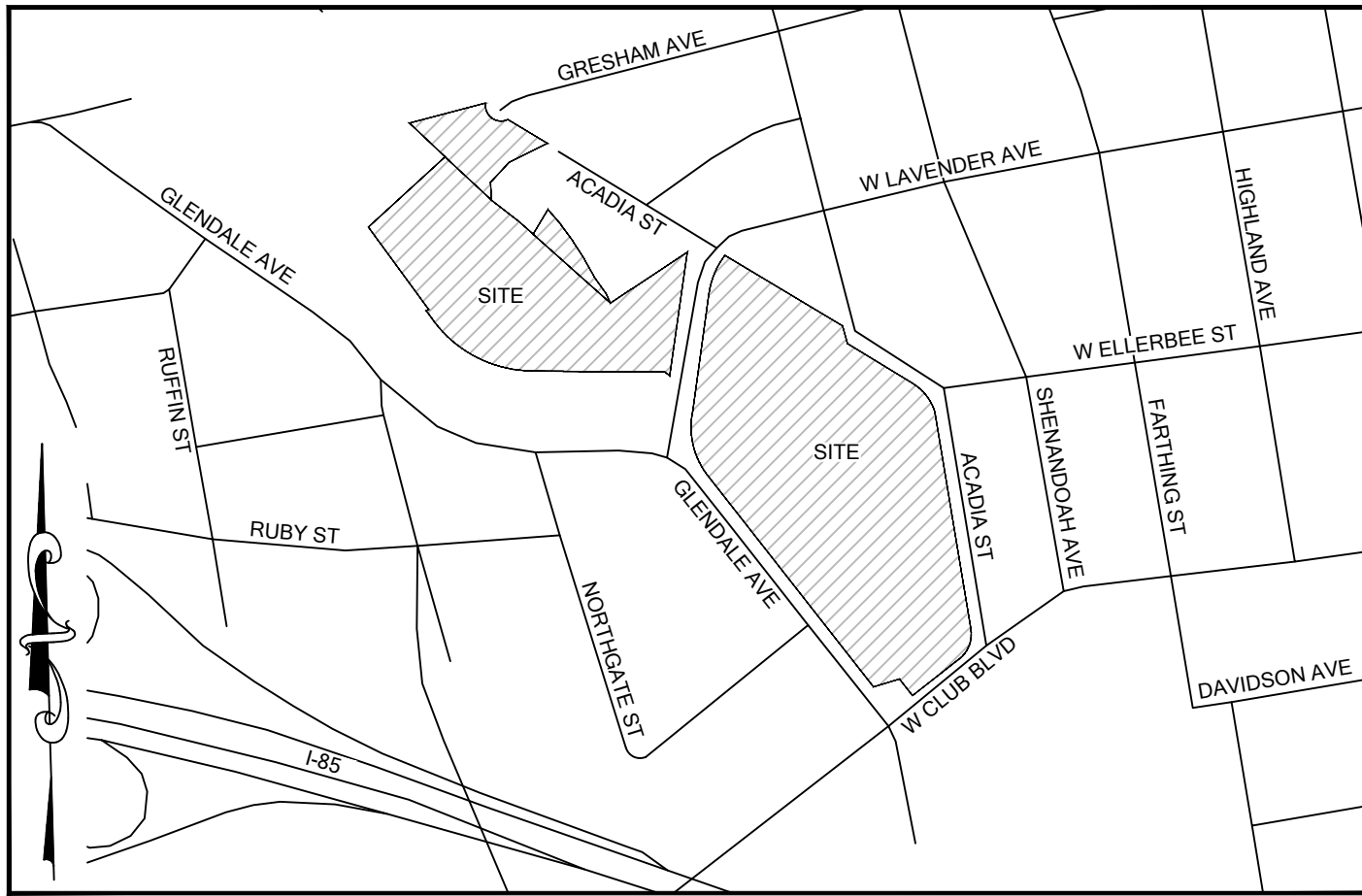
Gerald Paul
Senior Project Manager

Handwritten signature of Tom Raymond in black ink.

Tom Raymond, PE, RSM
Program Manager

Attachment: Topographic and Boundary Survey

Attachments



VICINITY MAP - NTS

NOTES:

- THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF F. REX COOPER, PLS.
- PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE BASED ON GPS OBSERVATIONS NAD83 / NSRS 2011 / SPC UNLESS OTHERWISE SHOWN.
- THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS
- THE BASIS OF ALL EASEMENTS, RIGHTS-OF-WAY, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK
- NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM.
- THE PROPERTIES LIE IN ZONES "X", "X SHADED", "AE", & "AE FLOODWAY" PER NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 3720083200K DATED OCTOBER 19, 2018. FLOOD LINES SHOWN WERE IMPORTED FROM FEMA SHAPE FILES AND ARE APPROXIMATE AT BEST
- ZONING IS "RU-5" FOR THE CITY OF DURHAM PER DURHAM COUNTY GIS.
- AREAS COMPUTED BY COORDINATE METHOD.
- THE PROPERTIES SHOWN HEREON ARE SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- CONSERVATION EASEMENTS SHOWN PER PLANS BY MCKIM & CREED TITLED "CONSERVATION EASEMENT SURVEY OF ELLERBEE CREEK RESTORATION FOR ECOSYSTEM ENHANCEMENT PROGRAM", PROJECT #: 1205-0005, DATED OCTOBER 8, 2007.

CLASS OF SURVEY: A
 POSITIONAL ACCURACY: 0.07
 TYPE OF GPS FIELD PROCEDURE: NC REAL TIME NETWORK
 DATES OF SURVEY: JUNE 2024
 DATUM/EPOCH: NAD83/NSRS2011/SPC
 COMBINED GRID FACTOR (CONTROL CORNER 1): 0.999953613
 UNITS: US SURVEY FEET

LEGEND

- SURVEYED BOUNDARY LINE
- ADJOINING BOUNDARY LINE (NOT SURVEYED)
- RIGHT OF WAY LINE (NOT SURVEYED)
- EASEMENT LINE
- TREELINE
- EXISTING BOUNDARY CORNER FOUND
- BOUNDARY CORNER SET (3/4" IPS UNLESS OTHERWISE NOTED)
- COMPUTED POINT
- CONCRETE MONUMENT FOUND
- CLEAN OUT
- TRANSFORMER / ELECTRIC BOX
- LIGHT POLE
- UTILITY POLE
- WATER METER
- FIRE HYDRANT
- UTILITY VALVE
- TELEPHONE PEDESTAL
- CABLE PEDESTAL
- CATCH BASIN
- DROP INLET
- UTILITY MANHOLE
- UTILITY HAND HOLE
- AIR CONDITIONING UNIT
- WELL
- SIGN
- OVERHEAD UTILITY
- GUY WIRE
- BURIED UTILITY MARKER
- EXISTING IRON PIPE
- EXISTING IRON REBAR
- IRON PIPE SET
- PK NAIL SET
- EXISTING PK NAIL
- ECAM
- EXISTING EASEMENT MARKER
- SSMH
- NORTH
- EAST
- SOUTH
- WEST
- NORTHEAST
- SOUTHEAST
- SOUTHWEST
- NORTHWEST
- DEED BOOK
- PAGE
- PLAT BOOK
- PLAT CABINET
- SLIDE
- RIGHT OF WAY
- POINT OF BEGINNING
- TOTAL
- NOW OR FORMERLY
- REINFORCED CONCRETE PIPE
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- TYPICAL

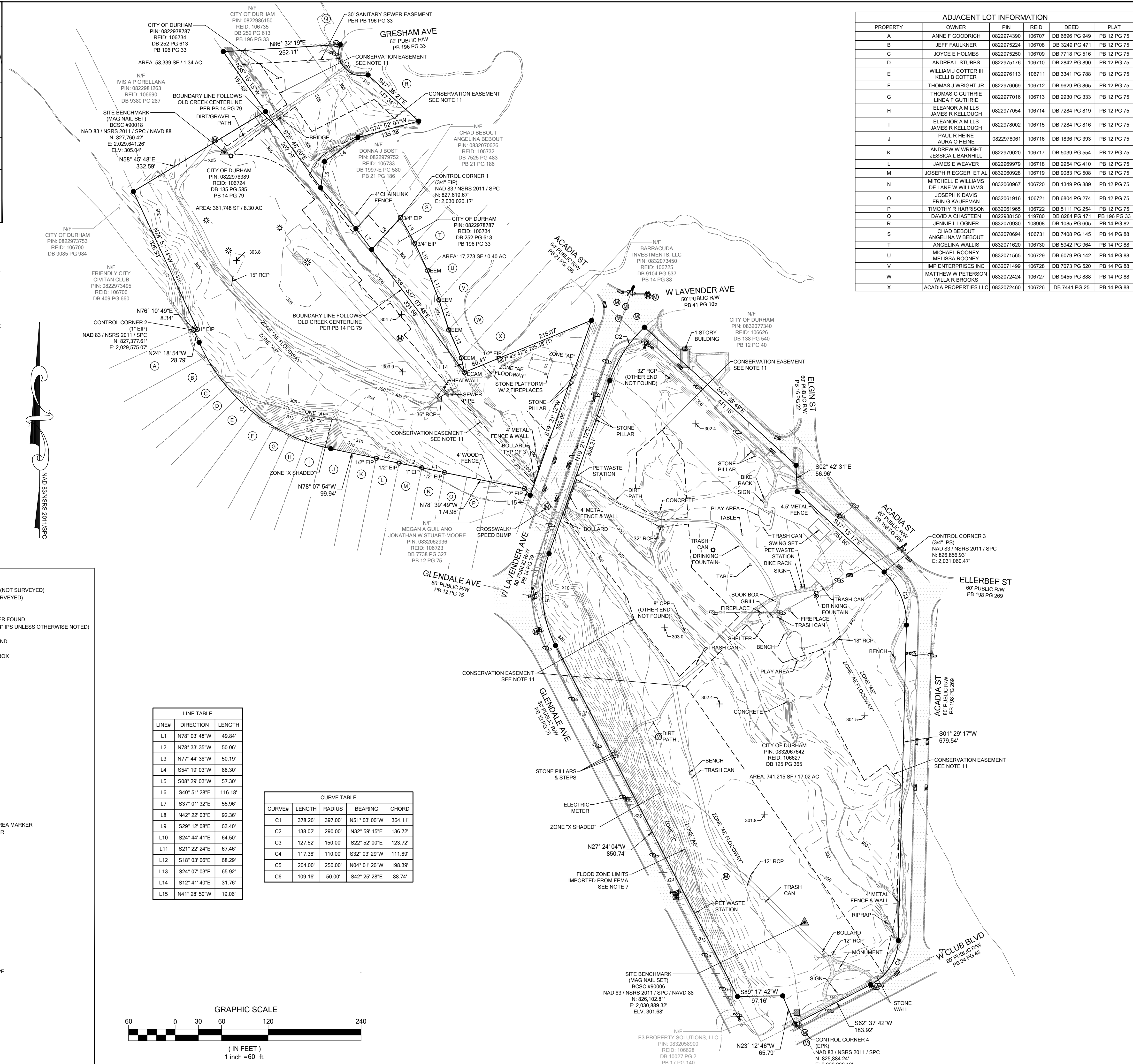
THIS MAP IS CONSIDERED PRELIMINARY, NOT FOR RECORDATION, CONVEYANCE OR SALES UNLESS SIGNED AND SEALED BY THE LICENSED SURVEYOR.

I, F. REX COOPER, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION AS RECORDED IN REFERENCES SHOWN HEREON; THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION FOUND AS SHOWN HEREON; THAT THE POSITIONAL ACCURACY IS < 0.10' AT 95% CONFIDENCE LEVEL; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600), WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER, AND SEAL THIS _____ DAY OF _____, 2024.

I, F. REX COOPER, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS TOPOGRAPHIC SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC / PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS A AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS C STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON 05/13/2024, THAT THE SURVEY WAS COMPLETED ON 05/24/2024, THAT CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD 83 AND REALIZATION NSRS 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88.

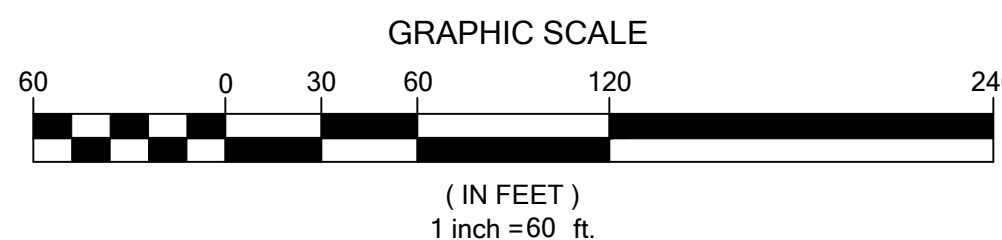
F. REX COOPER, PLS
 NC LICENSE NO. L-4269

MAD BANRSRS 2011/SPC



LINE#	DIRECTION	LENGTH
L1	N78° 03' 48"W	49.84'
L2	N78° 33' 35"W	50.06'
L3	N77° 44' 38"W	50.19'
L4	S54° 19' 03"W	88.30'
L5	S08° 29' 03"W	57.30'
L6	S40° 51' 28"E	116.18'
L7	S37° 01' 32"E	55.96'
L8	N42° 22' 03"E	92.36'
L9	S29° 12' 08"E	63.40'
L10	S24° 44' 41"E	64.50'
L11	S21° 22' 24"E	67.46'
L12	S18° 03' 06"E	68.29'
L13	S24° 07' 03"E	65.92'
L14	S12° 41' 40"E	31.76'
L15	N41° 28' 50"W	19.06'

CURVE#	LENGTH	RADIUS	BEARING	CHORD
C1	378.26'	397.00'	N51° 03' 06"W	364.11'
C2	138.02'	290.00'	N32° 59' 15"E	136.72'
C3	127.52'	150.00'	S22° 52' 00"E	123.72'
C4	117.38'	110.00'	S32° 03' 29"W	111.89'
C5	204.00'	250.00'	N04° 01' 26"W	198.39'
C6	109.16'	50.00'	S42° 29' 28"E	88.74'



ADJACENT LOT INFORMATION					
PROPERTY	OWNER	PIN	REID	DEED	PLAT
A	ANNE F GOODRICH	0822974390	106707	DB 6696 PG 949	PB 12 PG 75
B	JEFF FAULKNER	0822975224	106708	DB 3249 PG 471	PB 12 PG 75
C	JOYCE E HOLMES	0822975250	106709	DB 7718 PG 516	PB 12 PG 75
D	ANDREA L STUBBS	0822975176	106710	DB 2842 PG 890	PB 12 PG 75
E	WILLIAM J COTTER III KELLI B COTTER	0822976113	106711	DB 3341 PG 788	PB 12 PG 75
F	THOMAS J WRIGHT JR	0822976069	106712	DB 9629 PG 865	PB 12 PG 75
G	THOMAS G GUTHRIE LINDA F GUTHRIE	0822977016	106713	DB 2930 PG 333	PB 12 PG 75
H	ELEANOR A MILLS JAMES R KELLOUGH	0822977054	106714	DB 7284 PG 819	PB 12 PG 75
I	ELEANOR A MILLS JAMES R KELLOUGH	0822978002	106715	DB 7284 PG 816	PB 12 PG 75
J	PAUL R HEINE AURA O HEINE	0822978061	106716	DB 1836 PG 393	PB 12 PG 75
K	ANDREW W WRIGHT JESSICA L BARNHILL	0822979020	106717	DB 5039 PG 554	PB 12 PG 75
L	JAMES E WEAVER	0822969979	106718	DB 2954 PG 410	PB 12 PG 75
M	JOSEPH R EGGER ET AL	0832060928	106719	DB 9083 PG 508	PB 12 PG 75
N	JOSEPH K DAVIS ERIN G KAUFFMAN	0832060967	106720	DB 1349 PG 889	PB 12 PG 75
O	MITCHELL E WILLIAMS DELANE W WILLIAMS	0832061916	106721	DB 6804 PG 274	PB 12 PG 75
P	TIMOTHY R HARRISON	0832061965	106722	DB 5111 PG 254	PB 12 PG 75
Q	DAVID A CHASTEEN	0822986150	119780	DB 8284 PG 171	PB 196 PG 33
R	JENNIE L LOGNER	0832070930	108908	DB 1085 PG 605	PB 14 PG 82
S	ANGELINA W BEBOUT	0832070694	106731	DB 7408 PG 145	PB 14 PG 88
T	ANGELINA WALLIS	0832071620	106730	DB 5942 PG 964	PB 14 PG 88
U	MICHAEL ROONEY MELISSA ROONEY	0832071565	106729	DB 6079 PG 142	PB 14 PG 88
V	IMP ENTERPRISES, INC	0832071499	106728	DB 7073 PG 520	PB 14 PG 88
W	MATTHEW W PETERSON WILLA R BROOKS	0832072424	106727	DB 9455 PG 888	PB 14 PG 88
X	ACADIA PROPERTIES LLC	0832072460	106726	DB 7441 PG 25	PB 14 PG 88

BATEMAN CIVIL SURVEY COMPANY
 ENGINEERS • SURVEYORS • PLANNERS
 2524 RELIANCE AVENUE, APEX, NC 27539
 PHONE: (919) 577-1080 FAX: (919) 577-1081
 INFO@BATEMANCIVILSURVEY.COM
 NCBELTS FIRM# C-2378



BOUNDARY & TOPOGRAPHIC SURVEY
 EXCLUSIVELY FOR SSMIE
 PROPERTY OF THE CITY OF DURHAM
 AS RECORDED IN DB 125 PG 365, & DB 135 PG 585
 PINS: 0832067642 & 0822978389, REIDS: 106627 & 106724
 300 W CLUB BLVD & 404 W LAVENDER AVE, DURHAM, NC
 DURHAM TOWNSHIP - DURHAM COUNTY - NORTH CAROLINA

REVISIONS
1.
2.
3.
4.
5.

DESIGNED BY: N/A
 DRAWN BY: ELS
 CHECKED BY: FRC
 SCALE: 1" = 100'
 DATE: 06/27/2024
 JOB NUMBER: 240271

SHEET 1 OF 1