PRESERVE AT MARKS CREEK MASTER PLAN TOWN OF KNIGHTDALE, WAKE COUNTY, NORTH CAROLINA

SITE INFORMATION:				
LOCATION:	MARKS CRE			
COUNTY:		NTY		
PARENT PIN:	1765112567,	1765109558, 1	765212260,	
	1765212492,	1765213753		
CURRENT ZONING: PROPOSED ZONING:				
ACDEACE:				
ACREAGE:		1		
LAND CLASS	RESIDENTIA			
MINIMUM BUILDING SETBACKS:	FRONT LOADED S.F.:			
FRONT YARD: SIDE YARD: REAR YARD:	10'	10'		0'
SIDE YARD:	5'	3'		N/A
REAR YARD:	25'	25'		15'
CORNER YARD:	10'	10'		10'
LOT ACREAGE:				
PROPOSED DENSITY:	3.65 DU/AC			
TOTAL NUMBER PROPOSED LOTS: MINIMUM PROPOSED LOT SIZE: MAXIMUM PROPOSED LOT SIZE:	DSF:	Ţ	OWNHOME:	
TOTAL NUMBER PROPOSED LOTS:	227		144	
MINIMUM PROPOSED LOT SIZE:	7,670 SF		1,881 SF	
MAXIMUM PROPOSED LOT SIZE:	13.324 SF (L0	OT 212)	6,239 SF	(LOT 36)
AVERAGE PROPOSED LOT SIZE:	8.637 SF	_/	2.721 SF	
			24'	
MAXIMUM PROPOSED LOT SIZE: AVERAGE PROPOSED LOT SIZE: MINIMUM ALLOWABLE LOT WIDTH: MINIMUM PROPOSED LOT WIDTH:	<u>20</u>		22'	
	00			
LOT TYPE BREAKDOWN:				
SINGLE FAMILY 60' WIDTH (60'X130'):	83 LOTS			
SINGLE FAMILY 26' WIDTH (26'X120'):	144 LOTS			
TOWNHOME 22' WIDTH (22'X90'):	42 LOTS			
TOWNHOME 24' WIDTH (24'X90'):	102 LOTS			
OPEN SPACE BREAKDOWN:				
PROPERTY BOUNDARY:	4,425,330 SF	(101 59 AC)		
	4,420,000 01			
REQUIRED OPEN SPACE : PROVIDED OPEN SPACE :		(42.90 AC)		
	1,864,564 SF	(42.00 AC)		
	273,922 SF (I	6.29 AC)		
PROVIDED ACTIVE OPEN SPACE:	417,105 SF (9	9.58 AC)		
PARK:	179,306 SF (4	4.12 AC)		
PARK: POCKET PARK: DOG PARK:	30,656 SF (0.	.7 AC)		
PARK WITH BENCHES:	38,941 SF (0.	.89 AC)		
PARK WITH BENCHES:	149,447 SF (3	3 43 AC)		
PLAYGROUND:	57,832 SF (1	.33 AC)		
AMENITY CENTER:	39,730 SF (0	.91 AC)		
POOL AREA:	5.031 SF (0.1	2 AC)		
TRAILS:	6,887.81 (01	.97 AC)		
GREENWAY	12,200 01 (0 122 785 SE //	2.82 AC)		
PLAYGROUND: AMENITY CENTER: POOL AREA: TRAILS: GREENWAY: PRESERVED OPEN SPACE:	1,173,537 SF	(26.94 AC)		
		,		
IMPERVIOUS AREAS: PARKING PROVIDED:	182			
ROADWAYS / PARKING	500 331 SE (1	11 69 AC)		
	003,004 OF (120 204 OF //			
PARKING PROVIDED: ROADWAYS / PARKING: SIDEWALKS: 60' LOTS (2,200 SF/LOT):	102,001 OF ($(10 \ AC)$		
$(\Delta V(\dot{z}))$				
22' LÓTS (1,500 SF/LOT):				
24' LÓTS (1,500 SF/LOT):	153,000 SF (3	3.51 AC)		
(AVG) 26' LOTS (1,600 SF/LOT):				
(AVG)				
TOTAL ON-SITE IMPERVIOUS AREA: TOTAL ON-SITE IMPERVIOUS PERCENT:	1,270,725 SF	(29.17 AC)		
TOTAL ON-STE IMPERVIOUS PERCENT:	Zð./ 1 %			
UTILITY DEMANDS:				
SEWAGE USAGE:		ESIDENTIAL UN	VIT X 371 UN	IITS
WATER USAGE:	92,750 GPD			
		ESIDENTIAL UN	NIT X 371 UN	IITS
DISTURBED AREA:				
	1,022,417 SF	(23.47 AC)		
STREET TYPE SUMMARY:				
54' ROW SECTION:	11,699 LF			
74' ROW SECTION:	1,099 LF 2,058 LF			
	2,058 LF 1.47			



Know what's **below**. **Call** before you dig.

OWNER:

JAMES AND RHONDA POOLE 7633 KNIGHTDALE BLVD STE 101 KNIGHTDALE, NC 27545 MICHAEL AND JESSICA BLAKE 2609 MARKS CREEK RD, KNIGHTALE NC 27545 984-200-1932 CONTACT: JOSH LAMBERT, JOSH@STRONGROCKGROUP.COM

SURVEYOR:

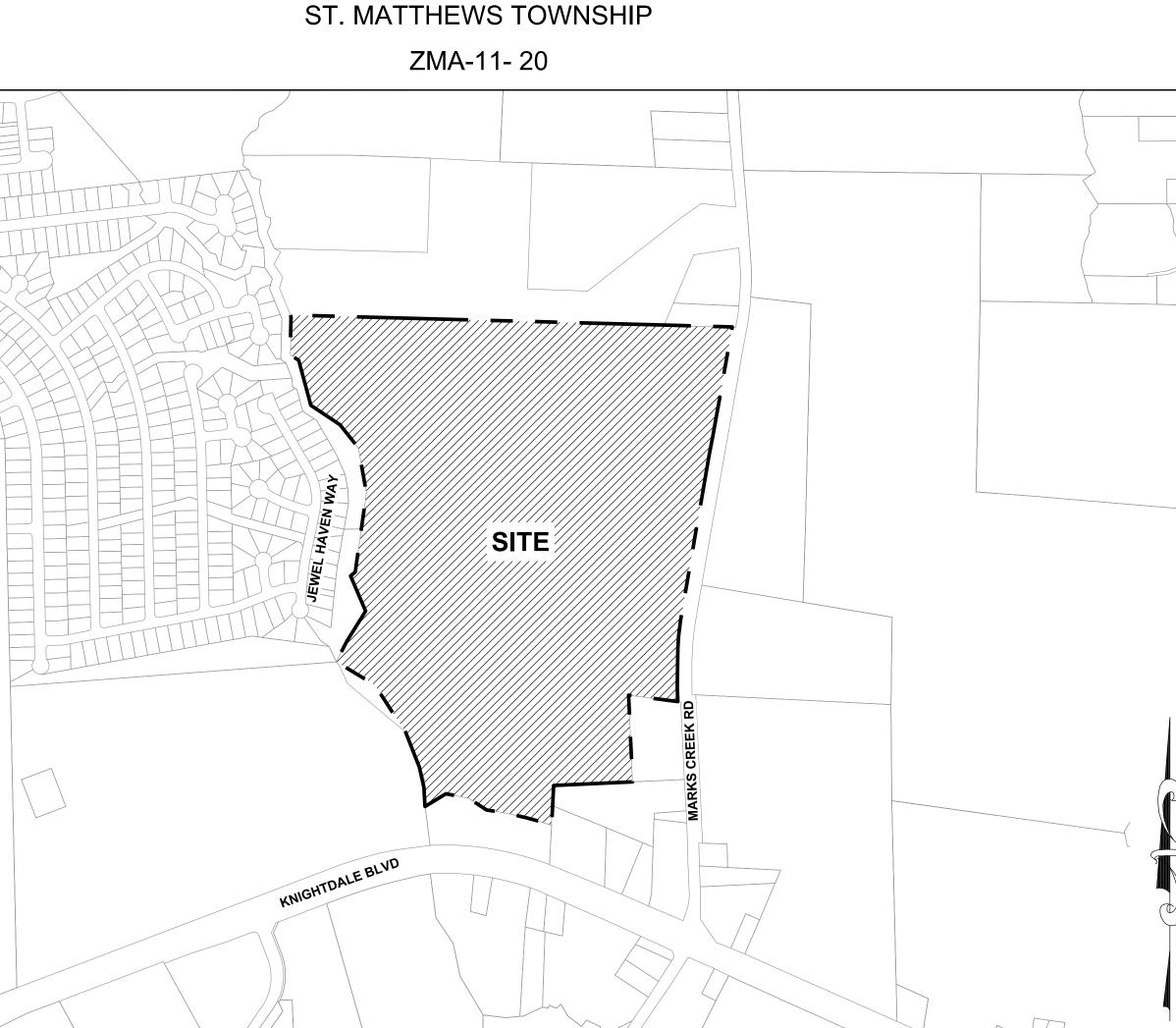
5448 APEX PEAKWAY APEX, NC 27502 919-801-1104 (O) 919-337-7998 (M) jeremy@taylorlc.com

ENVIRONMENTAL:

3707 SWIFT DRIVE 919-559-1537 CONTACT: SEAN CLARK sclark@sageecological.com

CIVIL ENGINEERING:

BOX 55992 RALEIGH, NC 27624 984-200-1932 (O) josh@strongrockgroup.com



VICINITY MAP 1" = 500'

TAYLOR LAND CONSULTANTS CONTACT: JEREMY TAYLOR, PLS

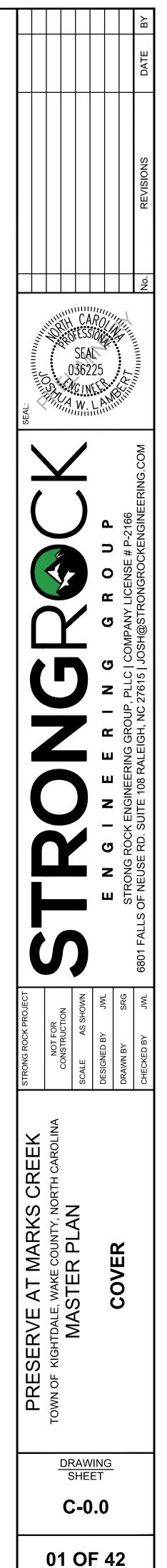
SAGE ECOLOGICAL SERVICES RALEIGH, NORTH CAROLINA, 27606

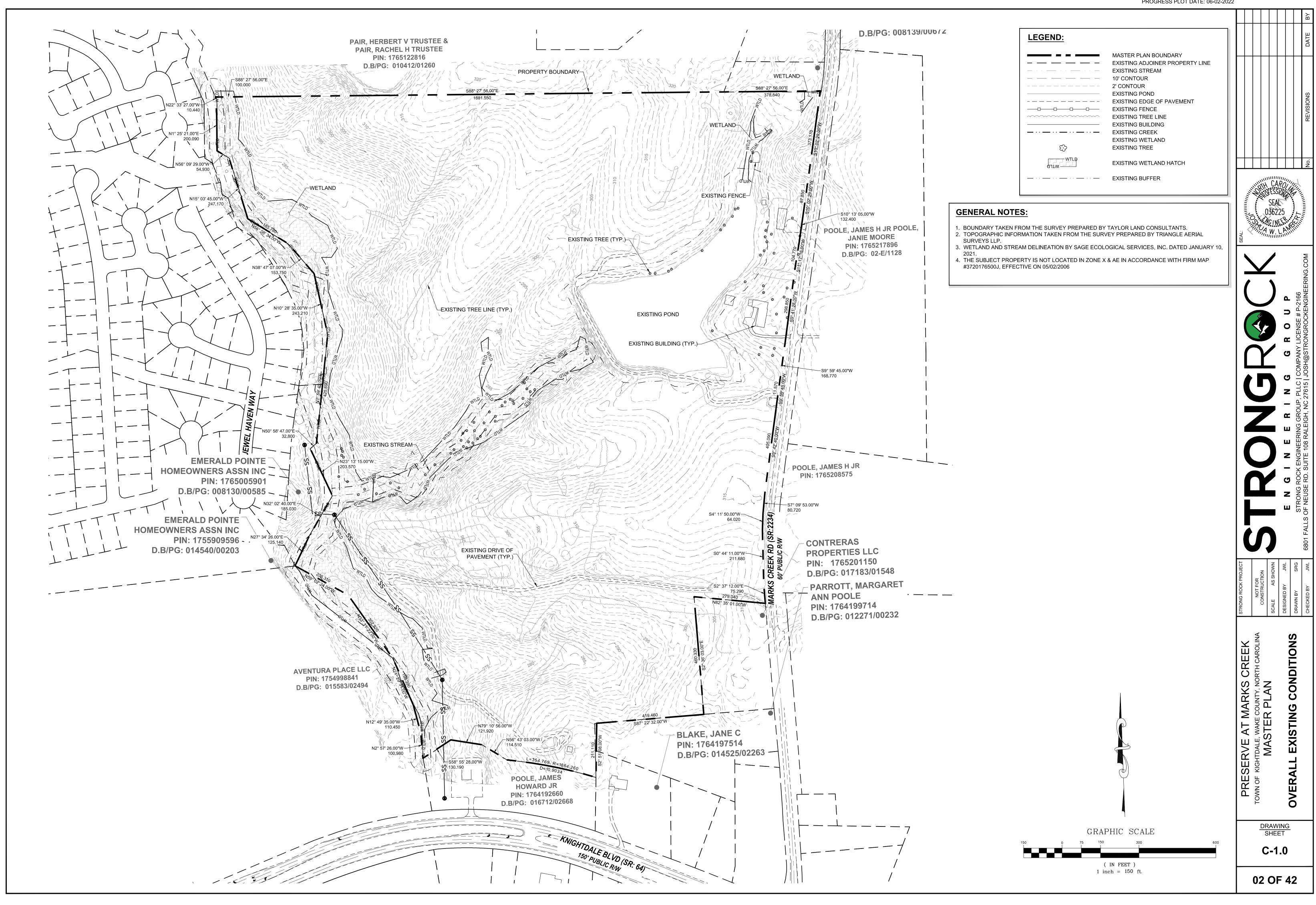
STRONG ROCK ENGINEERING GROUP, PLLC PO

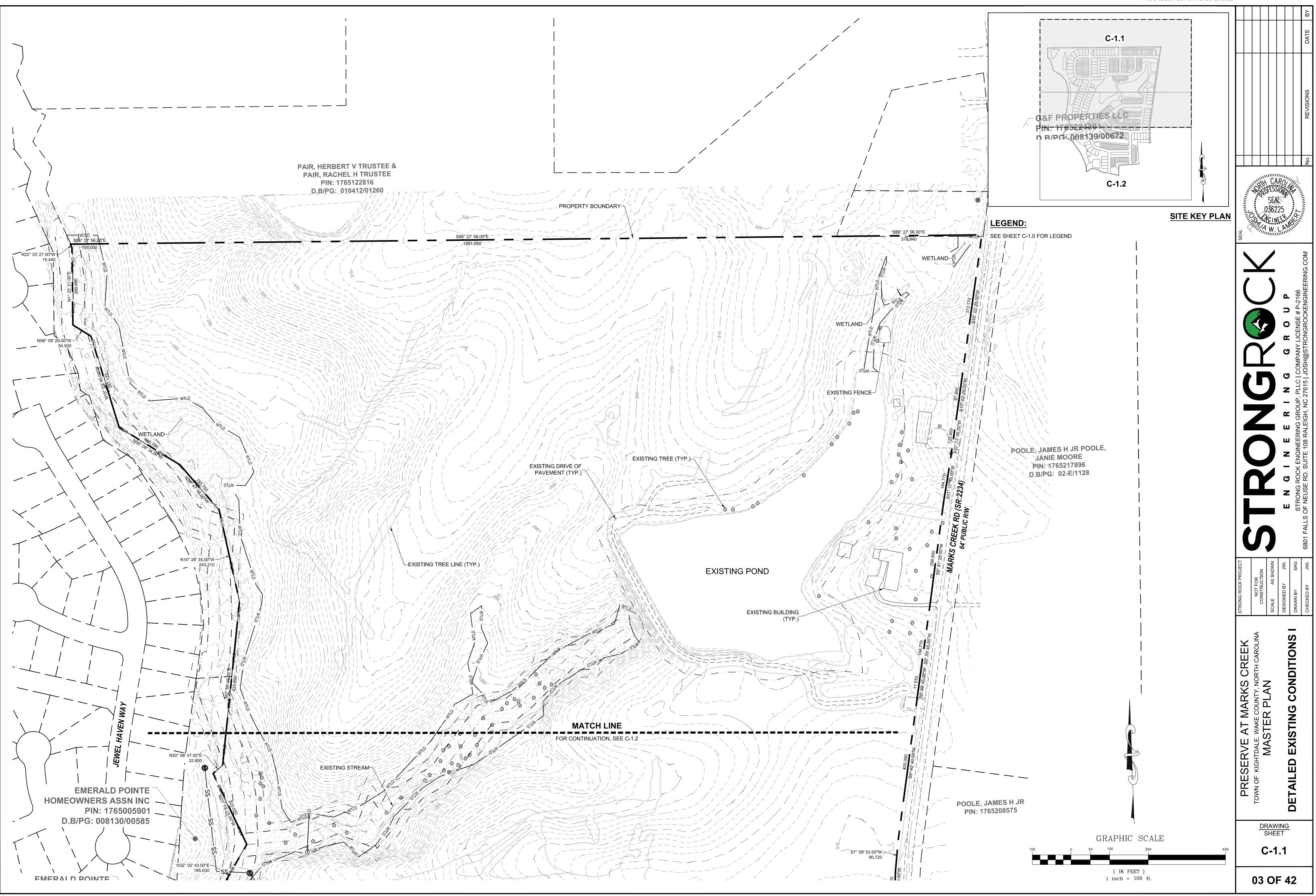
COMPANY LICENSE #: P-2166 CONTACT: JOSH LAMBERT, PE

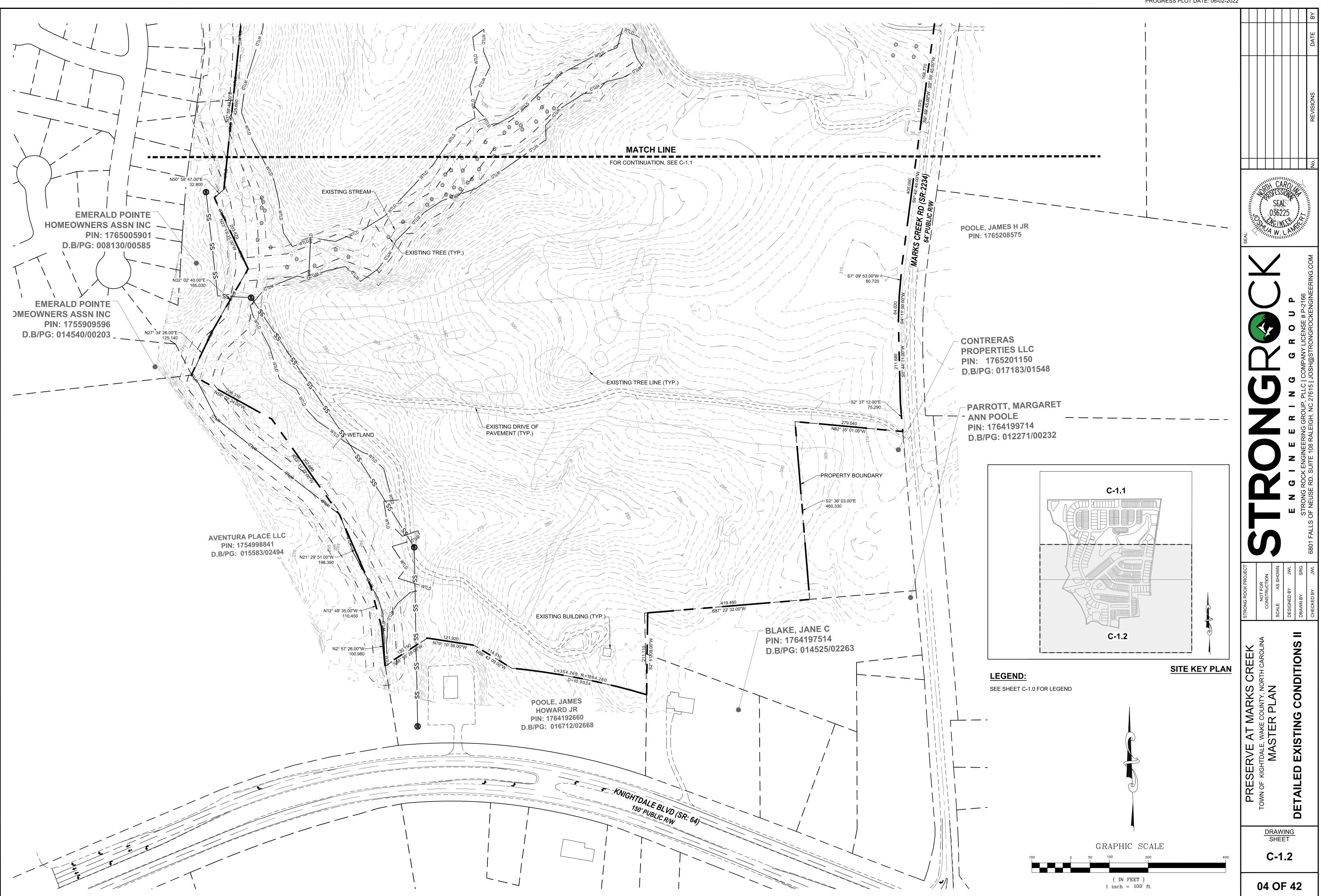
SH	
C-0.0	COVER
C-1.0	OVERALL EXISTING CONDITIONS
C-1.1	DETAILED EXISTING CONDITIONS
C-1.2	DETAILED EXISTING CONDITIONS
C-2.0	OVERALL SITE PLAN
C-2.1	DETAILED SITE PLAN I
C-2.2	DETAILED SITE PLAN II
C-2.3	DETAILED SITE PLAN III
C-2.4	DETAILED SITE PLAN IV
C-2.5	DETAILED SITE PLAN V
C-2.6	OPEN SPACE PLAN
C-3.0	OVERALL UTILITY PLAN
C-3.1	DETAILED UTILITY PLAN I
C-3.2	DETAILED UTILITY PLAN II
C-3.3	DETAILED UTILITY PLAN III
C-3.4	DETAILED UTILITY PLAN IV
C-3.5	DETAILED UTILITY PLAN V
C-4.0	OVERALL STORMWATER PLAN
C-4.1	DETAILED STORMWATER PLAN I
C-4.2	DETAILED STORMWATER PLAN II
C-4.3	DETAILED STORMWATER PLAN III
C-4.4	DETAILED STORMWATER PLAN IV
C-4.5	DETAILED STORMWATER PLAN V
C-5.0	OVERALL LANDSCAPE PLAN
C-5.1	DETAILED LANDSCAPE PLAN I
C-5.2	DETAILED LANDSCAPE PLAN II
C-5.3	DETAILED LANDSCAPE PLAN III
C-5.4	DETAILED LANDSCAPE PLAN IV
C-5.5	DETAILED LANDSCAPE PLAN V
C-6.0	OVERALL LIGHTING PLAN
C-6.1	LIGHTING PLAN I
C-6.2	LIGHTING PLAN II
C-6.3	LIGHTING PLAN III
C-6.4	LIGHTING PLAN IV
C-6.5	LIGHTING PLAN V
C-7.0	OVERALL SIGNS & MARKINGS PLA
C-7.1	SIGNS & MARKINGS PLAN I
C-7.2	SIGNS & MARKINGS PLAN II
C-7.3	SIGNS & MARKING PLAN III
C-7.4	SIGNS & MARKINGS PLAN IV
C-7.5	SIGNS & MARKINGS PLAN V
E-1.0	KNIGHTDALE BLVD ROADWAY
E-1.0	IMPROVMENTS PLAN

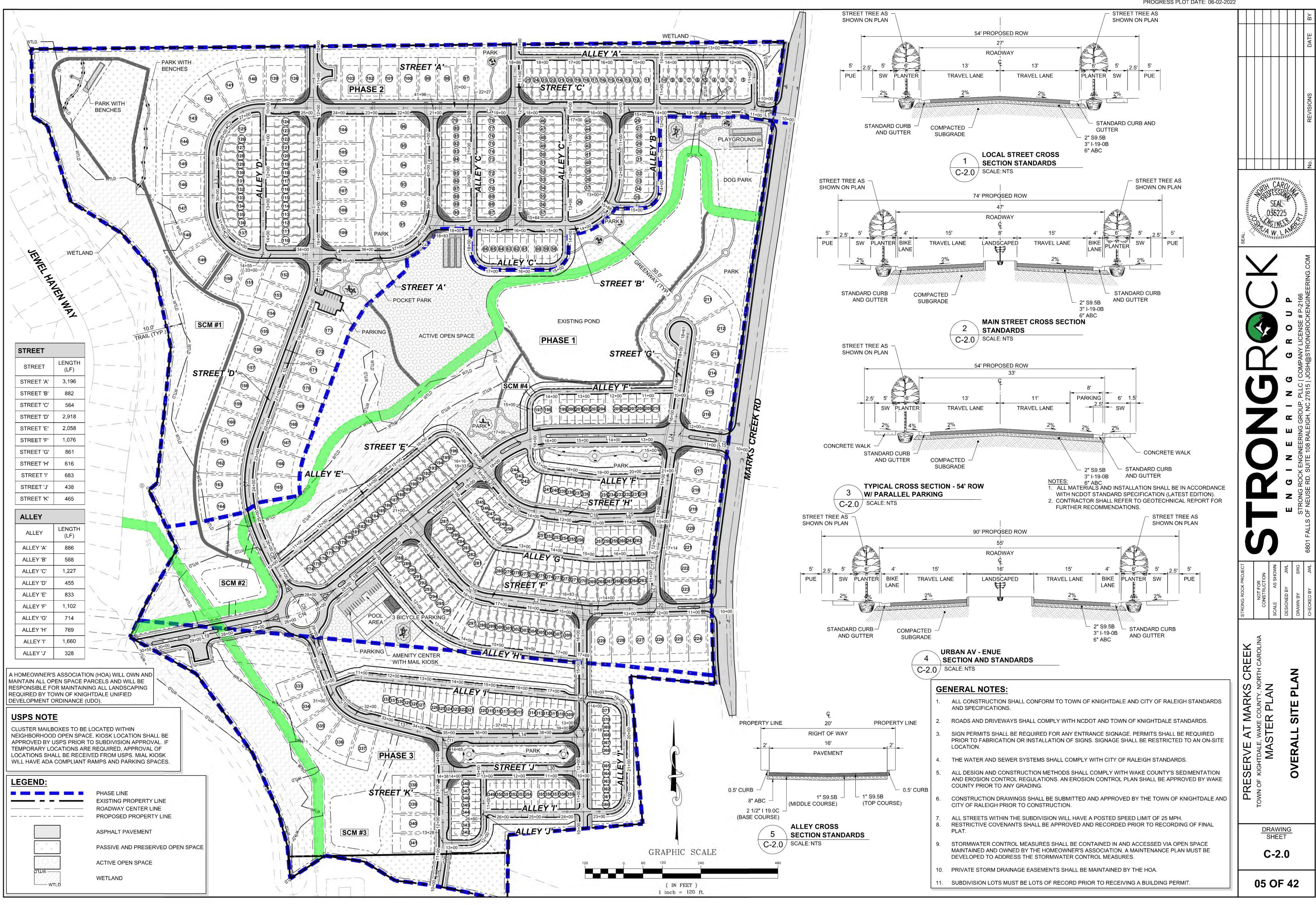
PUBLIC INFRASTRUCTURE QUANTITIES TABLE				
SEWER:				
MANHOLES	58	EA		
8" PUBLIC SANITARY SEWER	10,916	LF		
SEWER SERVICES	371	EA		
WATER:				
8" PUBLIC WATERMAIN	13,601	LF		
WATER SERVICES	371	EA		
FIRE HYDRANT ASSEMBLIES	32	EA		
8" GATE VALVES	59	EA		
8" X 8" TEES	13	EA		
8" X 8" CROSS	5	EA		
8" BLOW OFF ASSEMBLIES	8	EA		
CONCRETE/ASPHALT:				
PUBLIC STREETS	13,757	LF		
PUBLIC ALLEYS	8,562	LF		
PUBLIC 5' SIDEWALK	26,478	LF		
30" CURB & GUTTER	26,830	LF		
SITE DATA:				
NUMBER OF LOTS	37	71		
GPD USAGE WATER 92,750				
GPD USAGE SEWER	92,	750		
CALCULATION FOR GPD WATER (PER UNIT)	25	50		
CALCULATION FOR GPD SEWER (PER UNIT)	25	50		



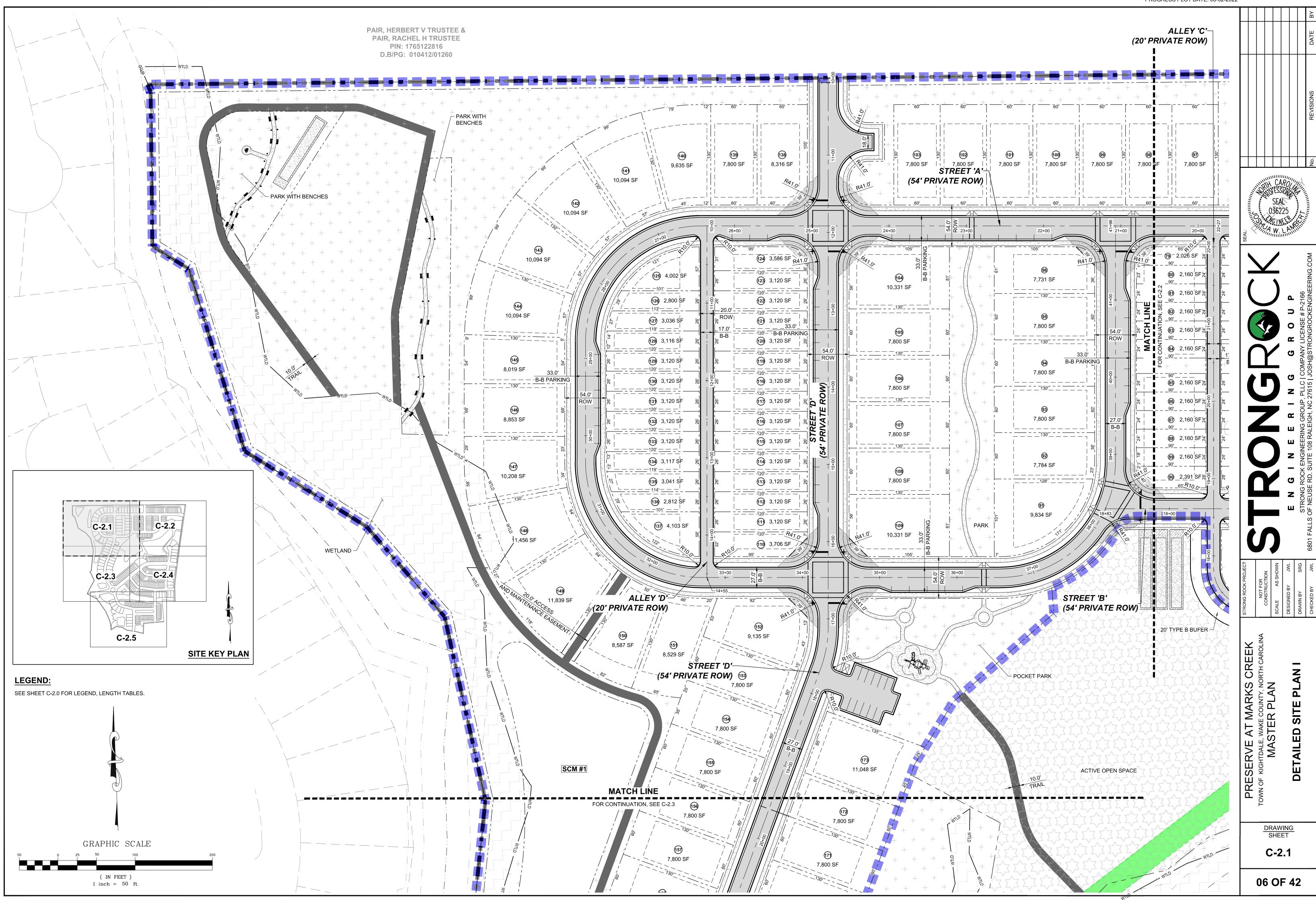


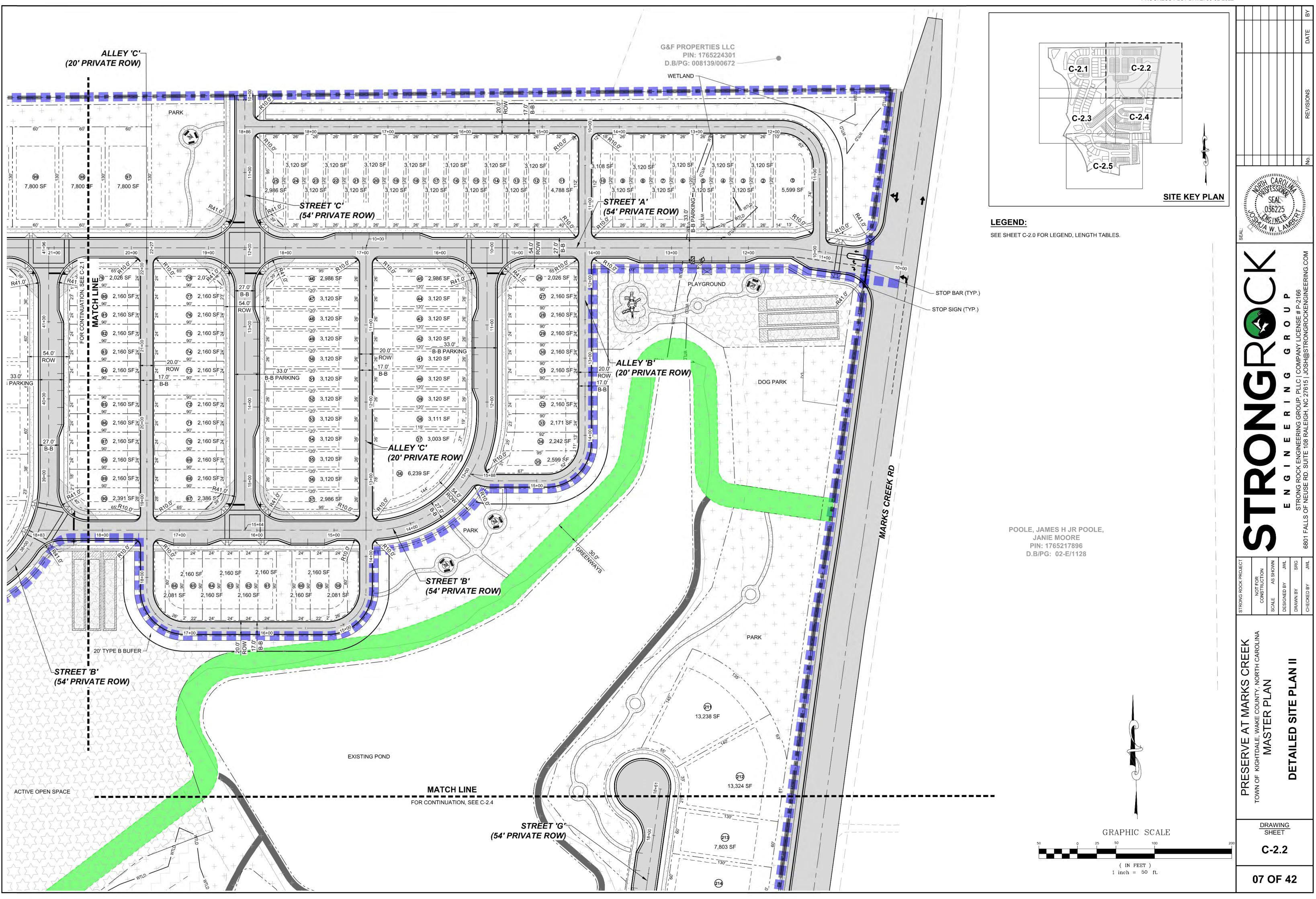


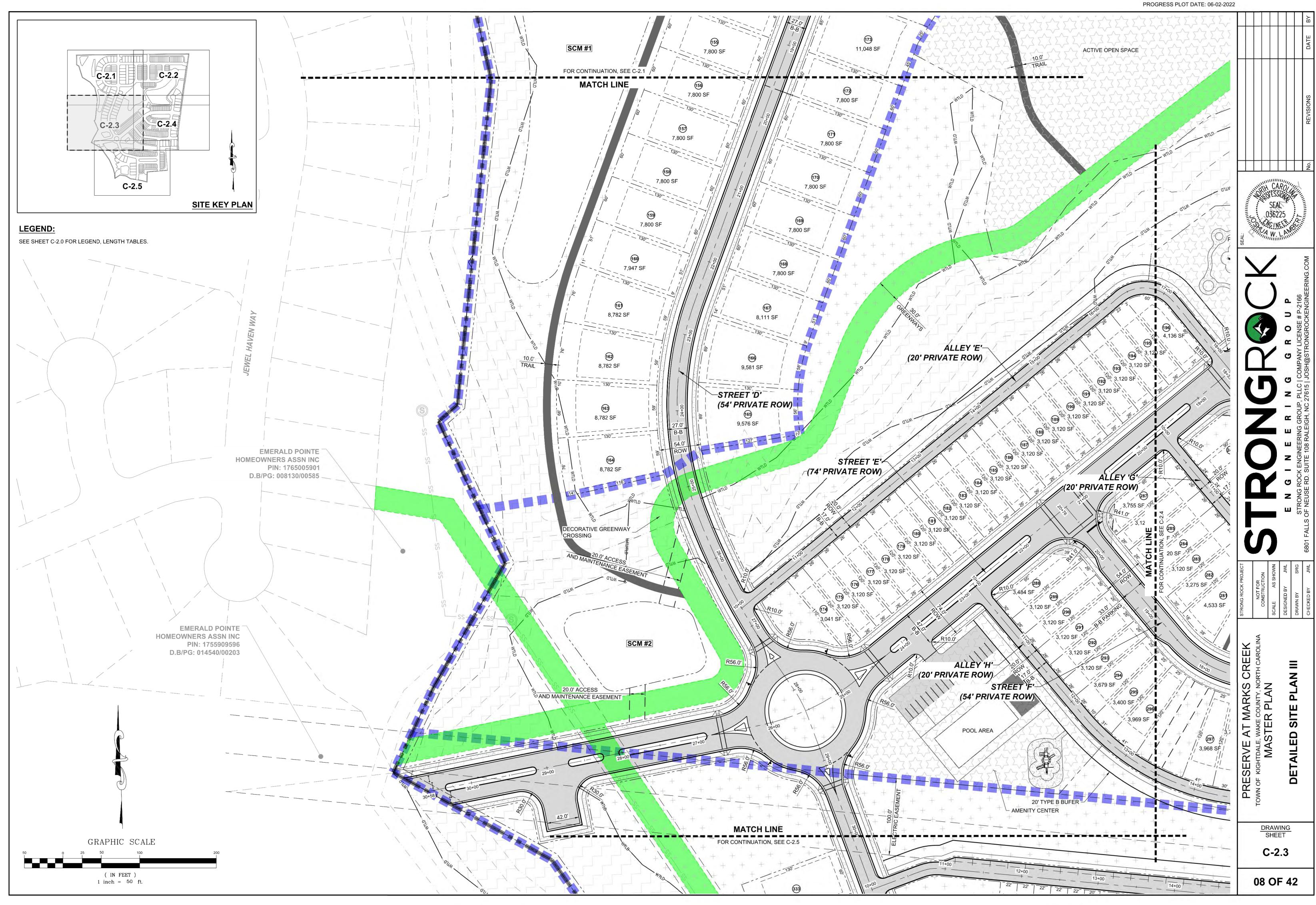


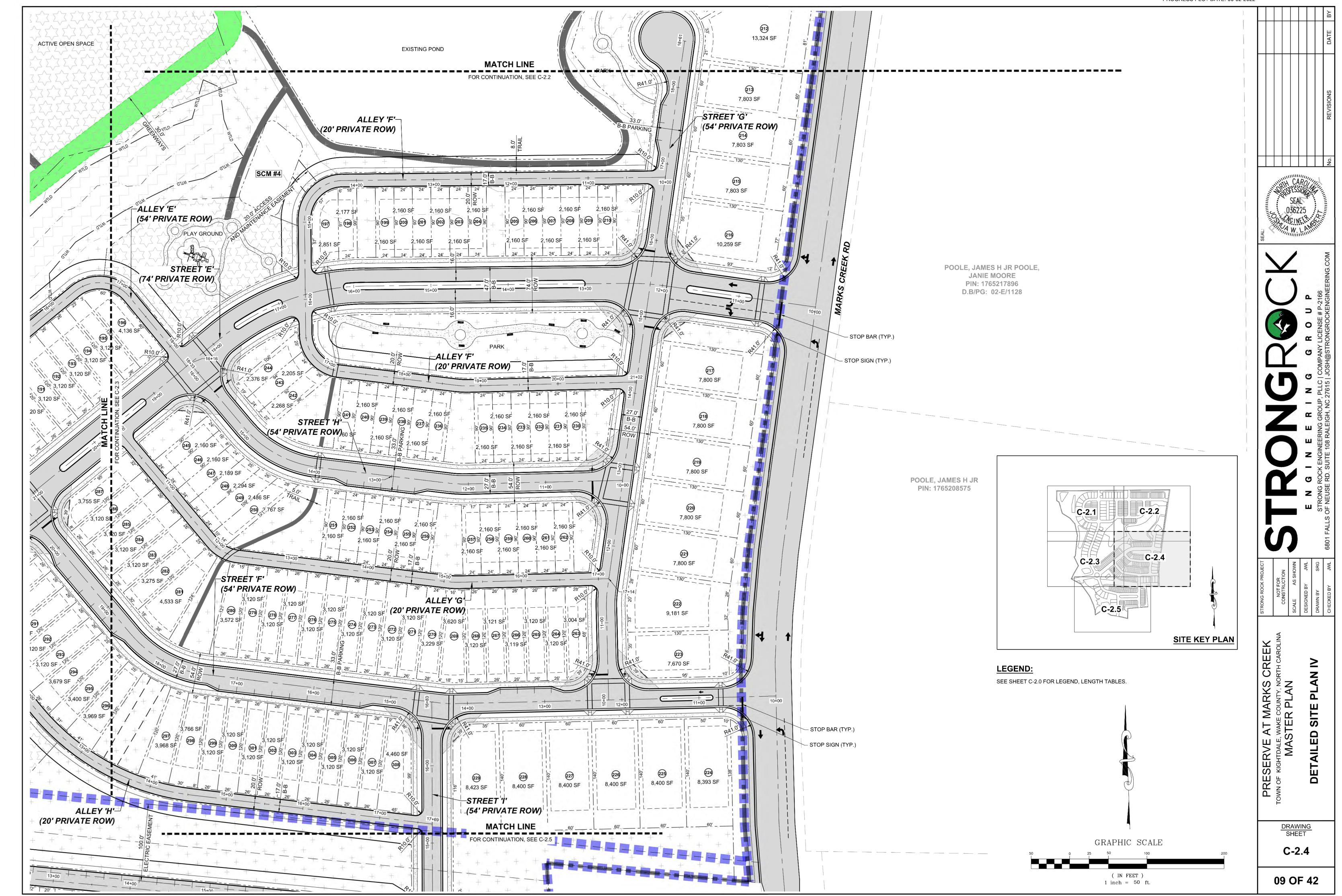


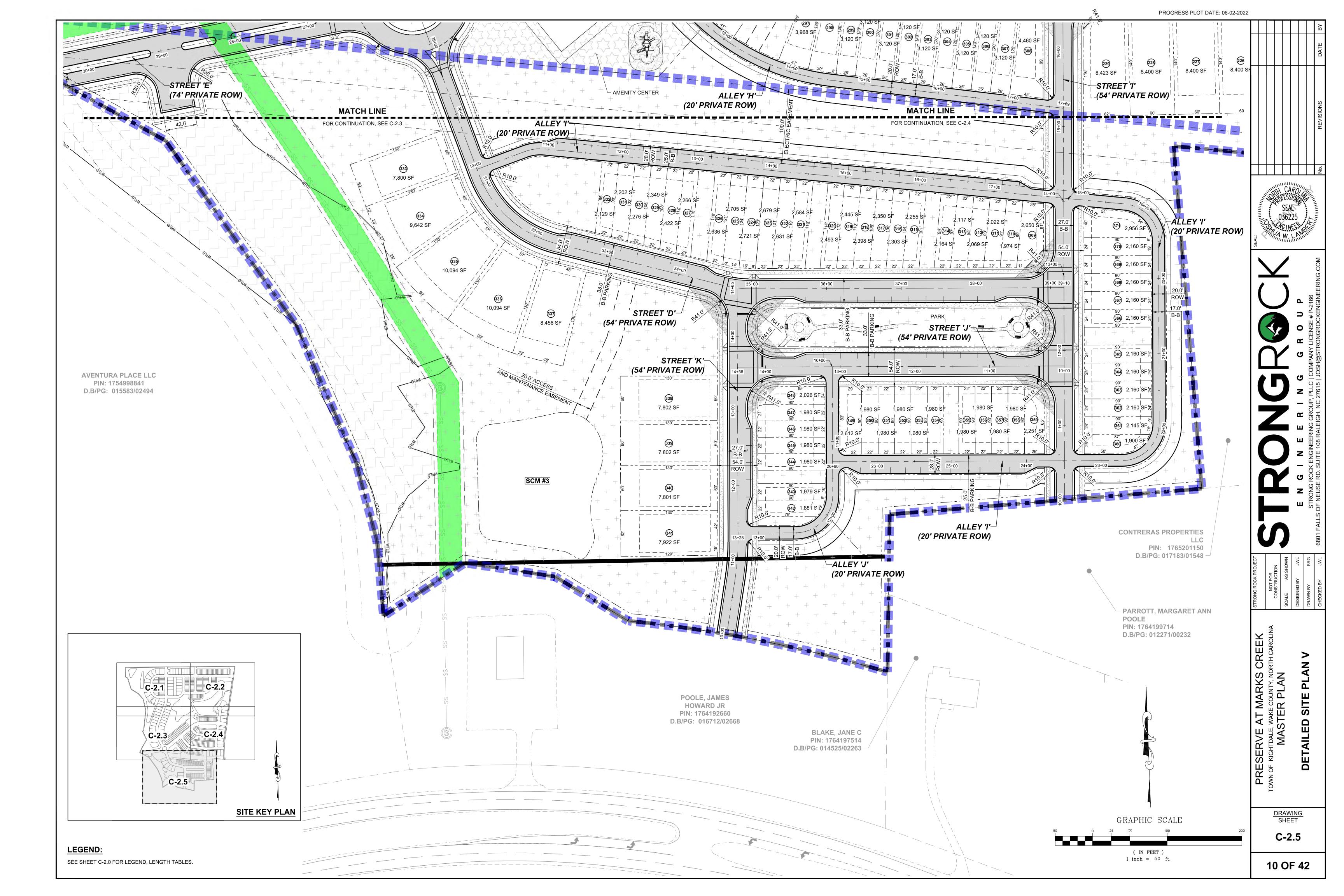














LEGEND:		┢	+	
	PHASE LINE		\downarrow	
	EXISTING PROPERTY LINE ROADWAY CENTER LINE			
	PROPOSED PROPERTY LINE			
	PASSIVE AND PRESERVED OPEN SPACE			
22323	ACTIVE OPEN SPACE			
	PRESERVED OPEN SPACE			
	WETLANDS			

ACTIVE OPEN SPACE	417,105 SF (9.58 AC)
PASSIVE OPEN SPACE	273,922 SF (6.29 AC)
PRESERVED OPEN SPACE	1,173,537 SF (26.94 AC)
TOTAL	1,864,564 SF (42.80 AC)



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APHIC SCALE	
20 240	

(IN FEET) 1 inch = 120 ft.



UTILITY NOTES

- 1. LL UTILITY DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES (CORDPU) STANDARDS AND SPECIFICATIONS. UTILITY DESIGN SHALL ALSO MEET FIRE FLOW REQUIREMENTS OF NCFC.
- 2. UTILITY SIZES AND LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND ARE SUBJECT TO CHANGE BASED ON FINAL DESIGN AND CONSTRUCTION DRAWING APPROVAL. THIS SHALL INCLUDE BUT NOT LIMITED TO FIRE HYDRANT LOCATIONS.
- ANY EXISTING WATER AND SEWER LINES TO BE USED AS PART OF THE FINAL DESIGN OF THE PROJECT, SHALL BE LOCATED BY SURVEY, TESTED BY A LICENSED CONTRACTOR AND APPROVED BY THE CITY OF RALEIGH INSPECTOR PRIOR TO SUBMITTAL OF CONSTRUCTION DRAWINGS.
 AS PART OF CONSTRUCTION DRAWING SUBMITTAL, FIRE FLOW CALCULATIONS SHALL BE PROVIDED SHOWING COMPLIANCE WITH NCFC. PROJECT MAY BE DEVELOPED IN PHASES AND ALL PHASES
- SHALL BE REQUIRED TO MEET THE MINIMUM REQUIRED FIRE FLOWS PER OCCUPANCY PROPOSED IN EACH PHASE.
 5. AN APPROVED WATER SUPPLY FOR FIRE SUPPRESSION (TEMPORARY OR PERMANENT) SHALL BE
- PROVIDED AS SOON AS COMBUSTIBLE MATERIALS ARRIVE ON SITE.
 6. UTILITY CONSTRUCTION APPROVAL IS REQUIRED FOR THIS PROJECT, PLANS TO BE PREPARED BY NC PROFESSIONAL ENGINEER.
- RIGHT OF WAY AND/OR EASEMENT DEDICATION PLAT IS REQUIRED FOR THIS PROJECT (PRIOR TO CITY ACCEPTANCE OF UTILITIES).
 ALL NECESSARY WETLAND, RIPARIAN BUFFER AND FLOODPLAIN PERMITS FROM USACE, NCDWQ &
- FEMA SHALL BE OBTAINED PRIOR TO CONSTRUCTION.PROJECT SHALL EXTEND PUBLIC WATER MAINS ALONG ALL INTERIOR AND ABUTTING RIGHT OF WAYS
- OF DEVELOPMENT. 10. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED AT EVERY INTERSECTION AND AT 500' (RESIDENTIAL) MAY INTERVALS ALONG SITE EPONTAGE
- (RESIDENTIAL) MAX INTERVALS ALONG SITE FRONTAGE.
 11. ALL MAINS UP TO 12 INCHES IN SIZE SHALL BE DESIGNED WITH A BLOW-OFF ASSEMBLY THE SAME
 SIZE AS THE DIAMETER OF THE DIPE
- SIZE AS THE DIAMETER OF THE PIPE.
 12. ALL WATER MAINS SHALL BE PRESSURE CLASS OR THICKNESS CLASS DUCTILE IRON PIPE DESIGNED IN ACCORDANCE WITH AWWA STANDARD C-150.
- 13. PROJECT SHALL EXTEND PUBLIC GRAVITY SEWER TO PERIPHERY OF DEVELOPMENT BASED ON NATURAL TOPOGRAPHY.
- ALL CITY OF RALEIGH SANITARY SEWER EASEMENTS SHALL BE A MINIMUM OF 30 FEET.
 THE SANITARY SEWER DESIGN SHALL BE EVALUATED DURING THE CONSTRUCTION DRAWING REVIEW TO ENSURE ADJACENT PROPERTIES HAVE ACCESS TO SANITARY SEWER WHERE FEASIBLE AND IN COMPLIANCE WITH THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT STANDARDS AND SPECIFICATIONS.
- ALL OFF-SITE EASEMENTS SHALL BE ACQUIRED BY THE DEVELOPER. THESE OFF-SITE EASEMENTS SHALL BE RECORDED BY MAP AND BY DEED OF EASEMENT PRIOR TO CONSTRUCTION APPROVAL. THE EASEMENTS SHALL BE DEDICATED TO THE CITY OF RALEIGH AND ENTITLED "CITY OF RALEIGH SANITARY SEWER EASEMENT".
- MAINTAIN APPROPRIATE COVER AND SEPARATION ON UTILITIES AND LABEL IN PROFILES; ANY UTILITY CROSSINGS ARE SUBJECT TO MINIMUM REQUIREMENTS.
 CONSTRUCTION APPROVAL WILL BE REQUIRED FOR ANY EXTENSIONS OF DUBLIC WATER OR SEV
- CONSTRUCTION APPROVAL WILL BE REQUIRED FOR ANY EXTENSIONS OF PUBLIC WATER OR SEWER MAINS.
 PLAT RECORDATION REQUIRED AFTER CONSTRUCTION APPROVAL PRIOR TO BUILDING PERMIT.
- PLAT RECORDATION REQUIRED AFTER CONSTRUCTION APPROVAL PRIOR TO BUILDING P
 DOT ENCROACHMENT AGREEMENT REQUIRED.
- 21. PRIVATE WATER SERVICES SIZED 34" 2" SHOULD BE TYPE "K" SOFT COPPER AND IN ACCORDANCE WITH PU HANDBOOK, APP. B, STANDARD WATER DETAIL W-23 AND W-25. IF WATER METERS CANNOT BE LOCATED WITHIN THE RIGHT-OF-WAY THEY MUST BE WITHIN RECORDED "CITY OF RALEIGH WATERLINE EASEMENTS.

CORPUD STANDARD UTILITY NOTES:

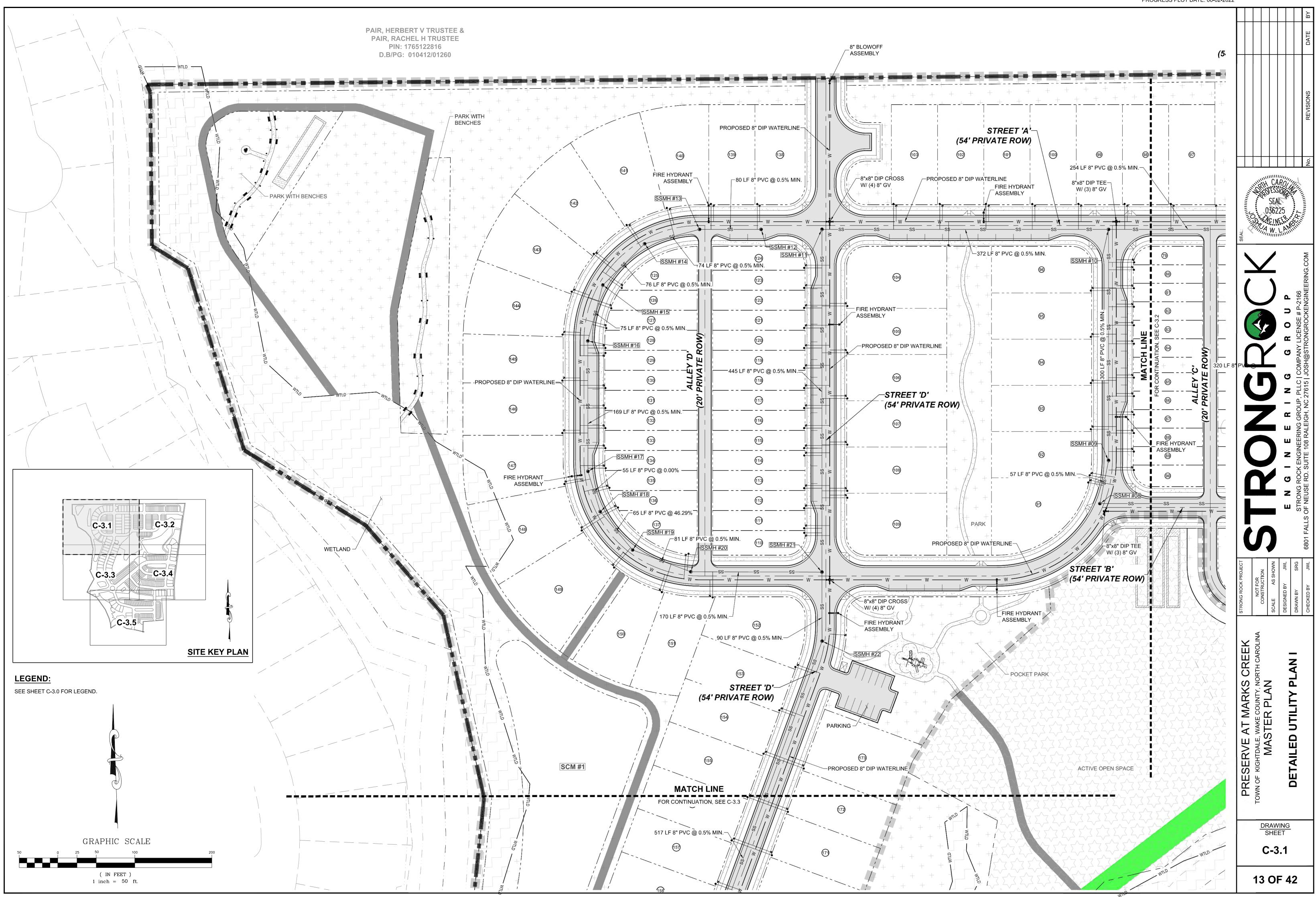
- STANDARD UTILITY NOTES (AS APPLICABLE):
- ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)

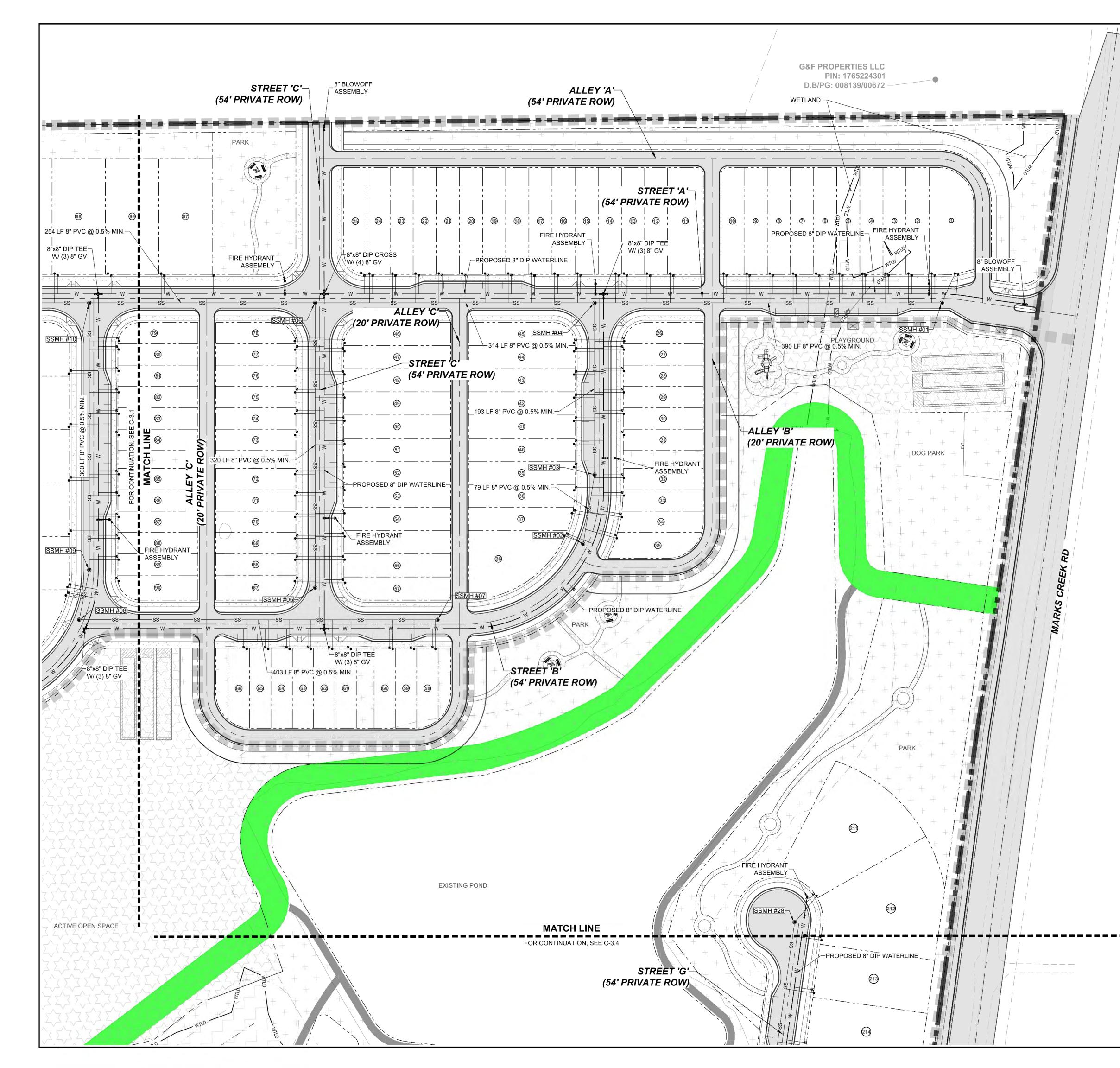
2. UTILITY SEPARATION REQUIREMENTS: a) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL b) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN. PVC MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS d) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS PVC MATERIAL IS SPECIFIED FOR SANITARY SEWER MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY PVC MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 & S-49) f) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED 3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION 4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT 5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE. INSTALL 3/4" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' $\mathbf{\Sigma}$ WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO ш PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE Ц INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM \mathbf{O} PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS $\mathbf{\Sigma}$ LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE AR 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK 11 (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION \triangleleft 12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO >ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE Ľ UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION UTILITY CONSTRUCTION APPROVAL IS REQUIRED FOR PROJECT DEVELOPMENT

> ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF KNIGHTDALE, CITY OF RALEIGH AND NCDOT

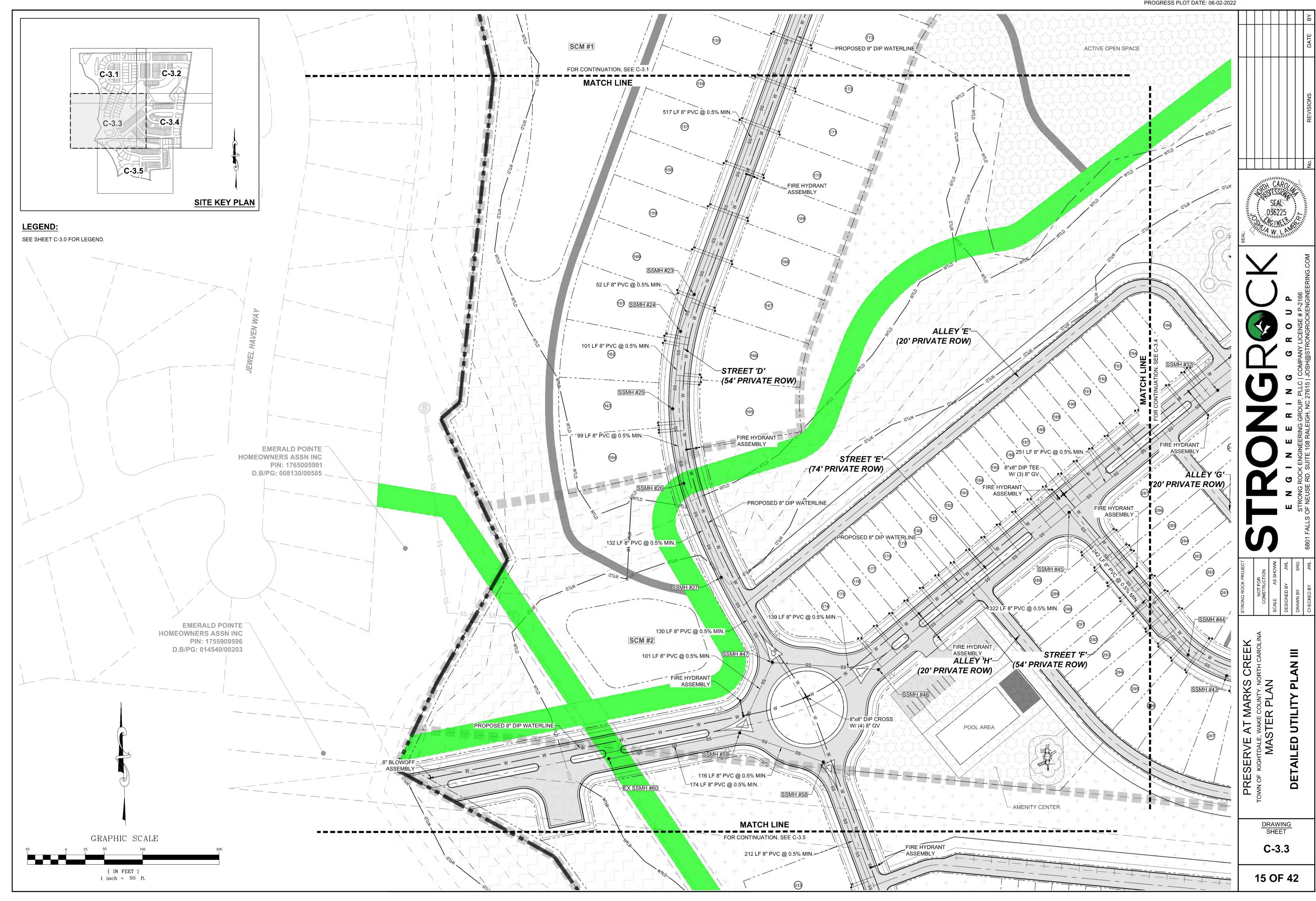
STANDARDS, SPECIFICATIONS, AND DETAILS.

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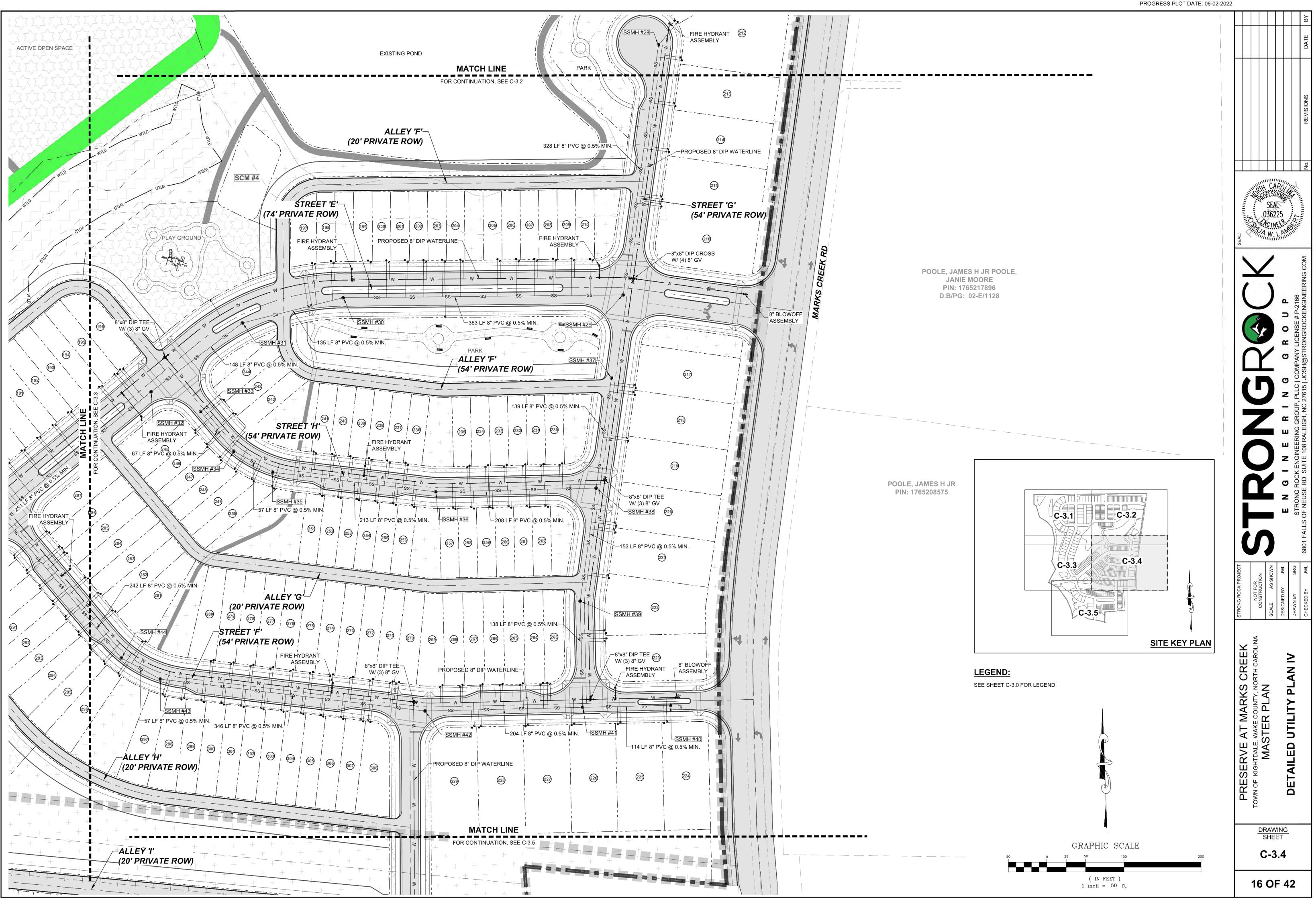


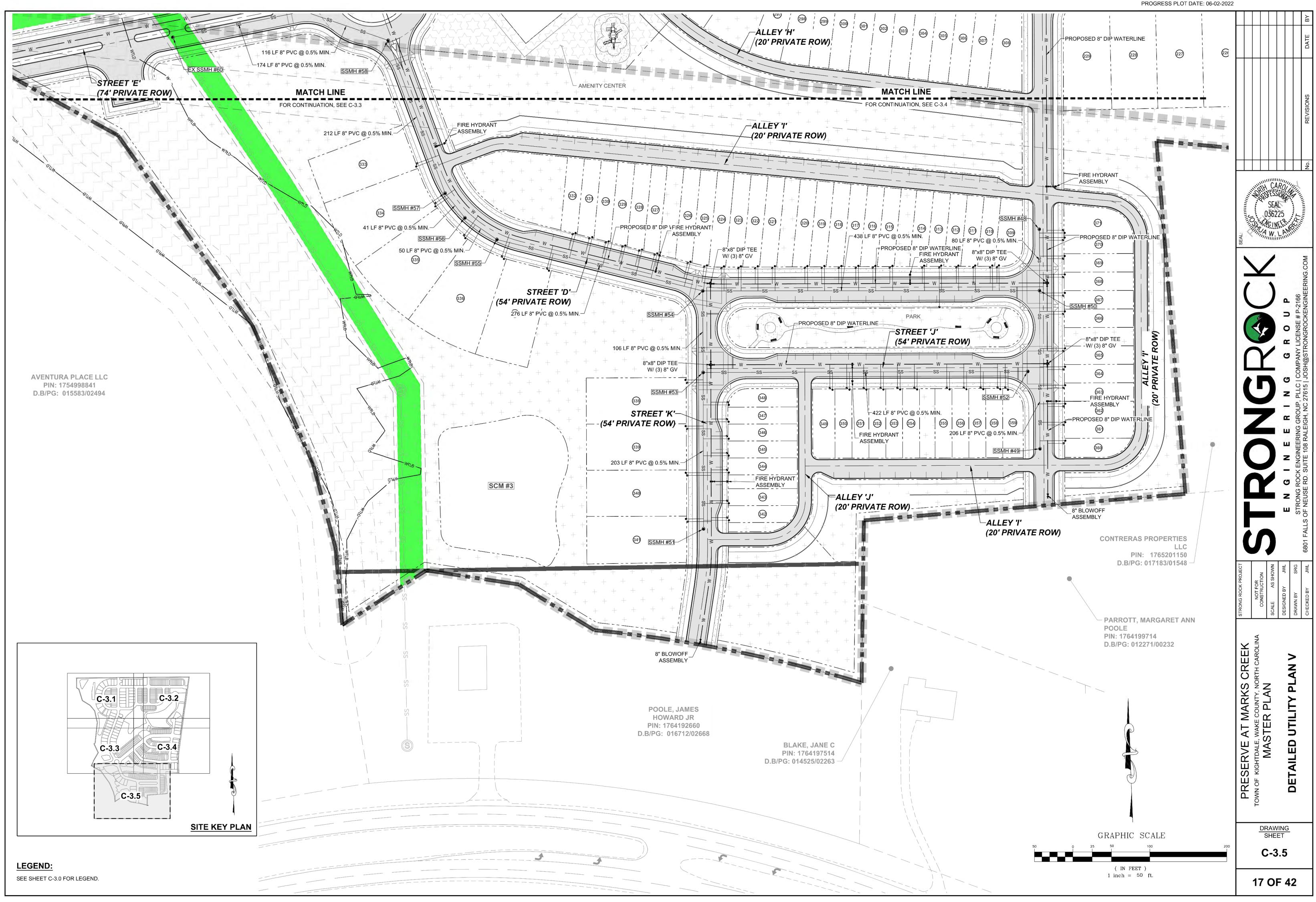






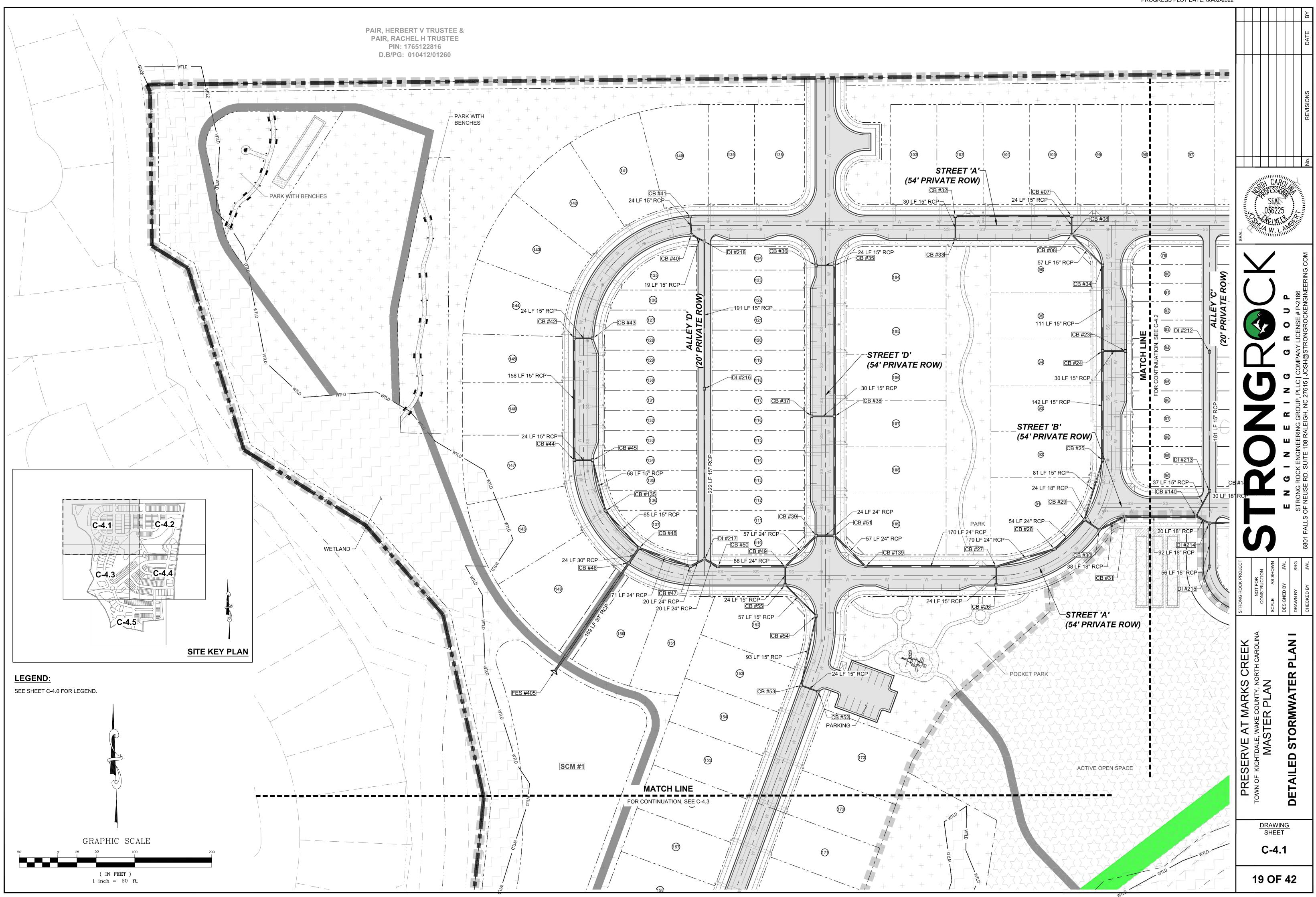




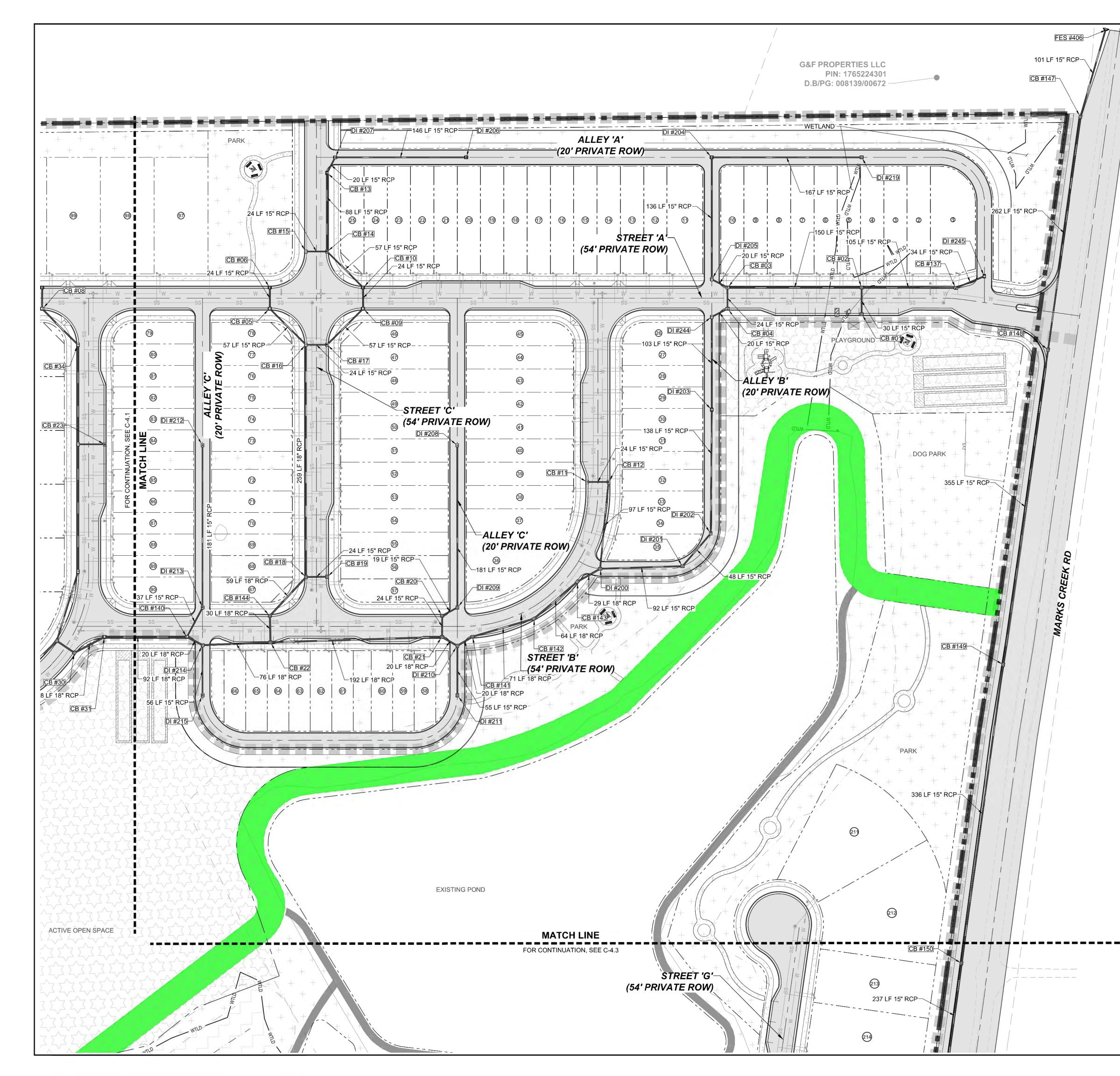




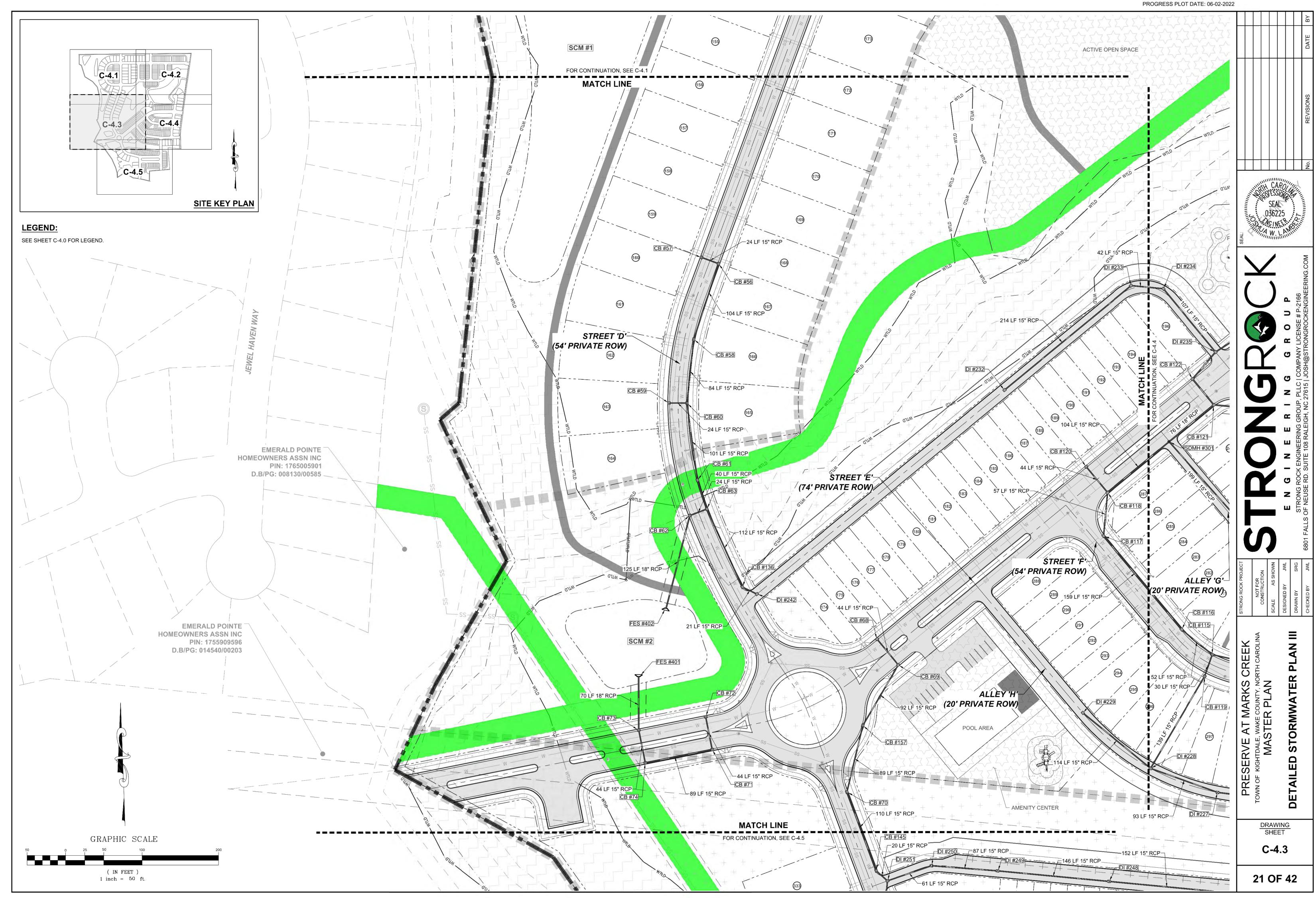
	GRAPHIC SCALE	DRAW SHEE	
		PRESERVE AT MARKS CREEK TOWN OF KIGHTDALE, WAKE COUNTY, NORTH CAROLINA MASTER PLAN	OVERALL STORMWATER PLAN
		STRONG ROCK PROJECT NOT FOR CONSTRUCTION SCALE AS SHOWN	DESIGNED BY JWL E C N G I N E E R I N G G R O U P DRAWN BY SRG CHECKED BY JWL 6801 FALLS OF NEUSE RD. SUITE 108 RALEIGH, NC 27615 J JOSH@STRONGROCKENGINEERING.COM
TOW	CONSTRUCTION TO BE IN ACCORDANCE WITH ALL N OF KNIGHTDALE, CITY OF RALEIGH AND NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS.		OUP ENSE # P-2166 GROCKENGINEERING.COM
7. 8.	MAINTENANCE AND ACCESS EASEMENTS ARE REQUIRED FOR ALL SCMS. AT THE CONCLUSION OF THE PROJECT ALL SCMS INSTALLED ON-SITE MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AND THE TOWN OF KNIGHTDALE ENGINEERING DEPT. MUST RECEIVE ALL AS-BUILT DRAWINGS PRIOR TO RECEIVING THE CERTIFICATE OF OCCUPANCY.	SEA 0362	25 E
6.	A MAINTENANCE PLAN ALONG WITH A MEMORANDUM OF AGREEMENT MUST BE DEVELOPED FOR ALL STORMWATER CONTROL MEASURES (SCMS) INSTALLED TO ACHIEVE NITROGEN LOADING AND/OR FLOW ATTENUATING REQUIREMENTS AS PART OF THIS PROJECT. THIS MAINTENANCE PLAN IS REQUIRED TO BE RECORDED AT THE WAKE COUNTY REGISTER OF DEEDS PRIOR TO PLAT RECORDATION. PROOF OF SAID RECORDING WILL BE REQUIRED AT THE TIME OF PLAT RECORDATION.		
5.	TOWN OF KNIGHTDALE REQUIREMENTS FOR EACH TYPE OF MEASURE PROPOSED. STORMWATER CONTROL MEASURES SHALL BE LOCATED IN OPEN SPACE AREAS DEDICATED TO AND MAINTAINED BY THE HOMEOWNER'S ASSOCIATION (HOA).		
3. 4.	THE STORMWATER PLAN SHALL PROVIDE FOR ADEQUATE NITROGEN REDUCTION AND ATTENUATION OF STORMWATER RUNOFF. FENCING AND LANDSCAPING FOR ALL PROPOSED STORMWATER CONTROL MEASURES SHALL MEET		
2.	THE STORM DRAINAGE SYSTEM SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH TOWN OF KNIGHTDALE UDO AND ENGINEERING STANDARDS & SPECIFICATIONS.		
<u>011</u> 1.	THE STORM DRAINAGE LAYOUT IS CONCEPTUAL AND SUBJECT TO CHANGE. APPROVAL BY TOWN STAFF IS REQUIRED.		
UTI	LITY NOTES		

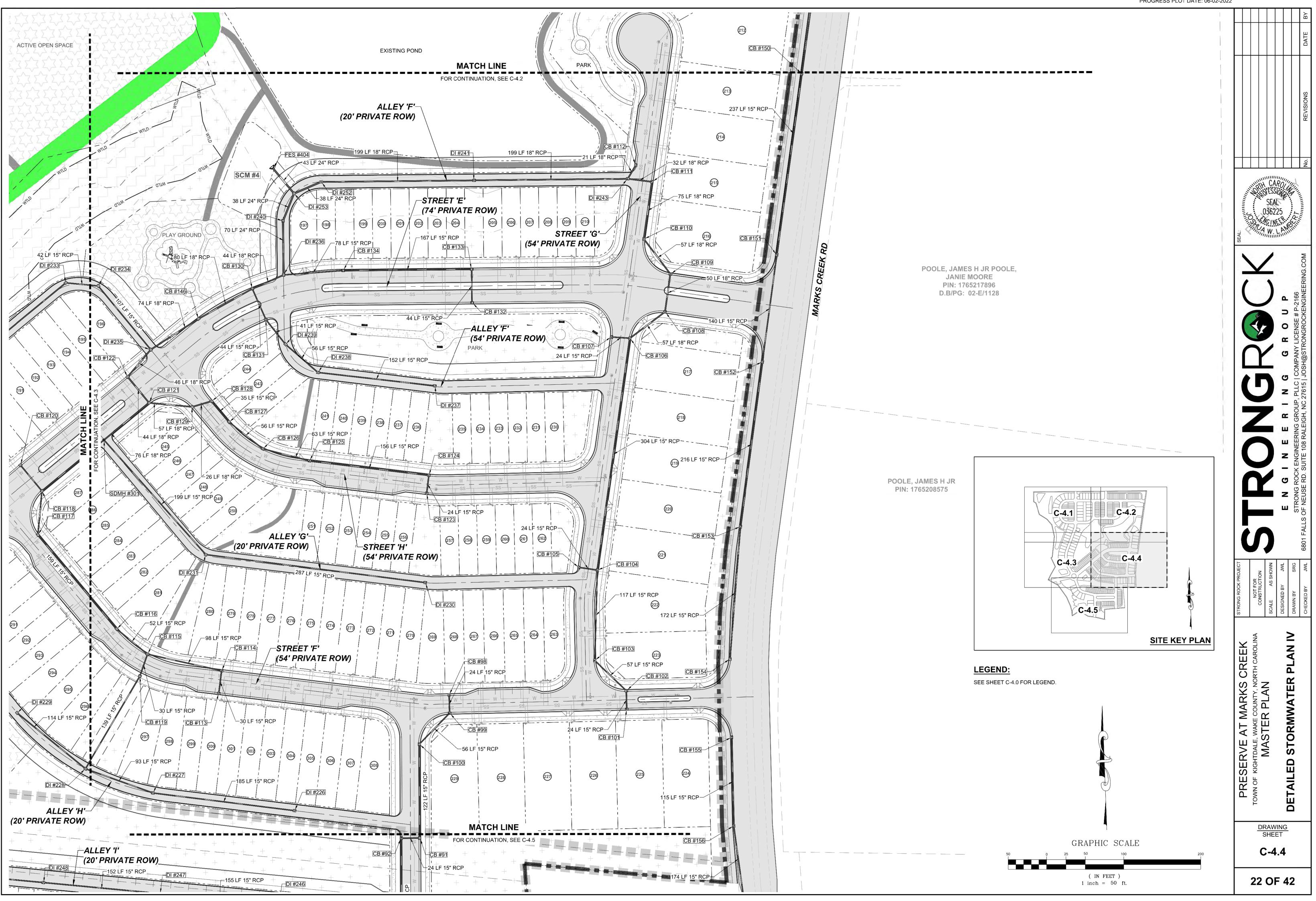


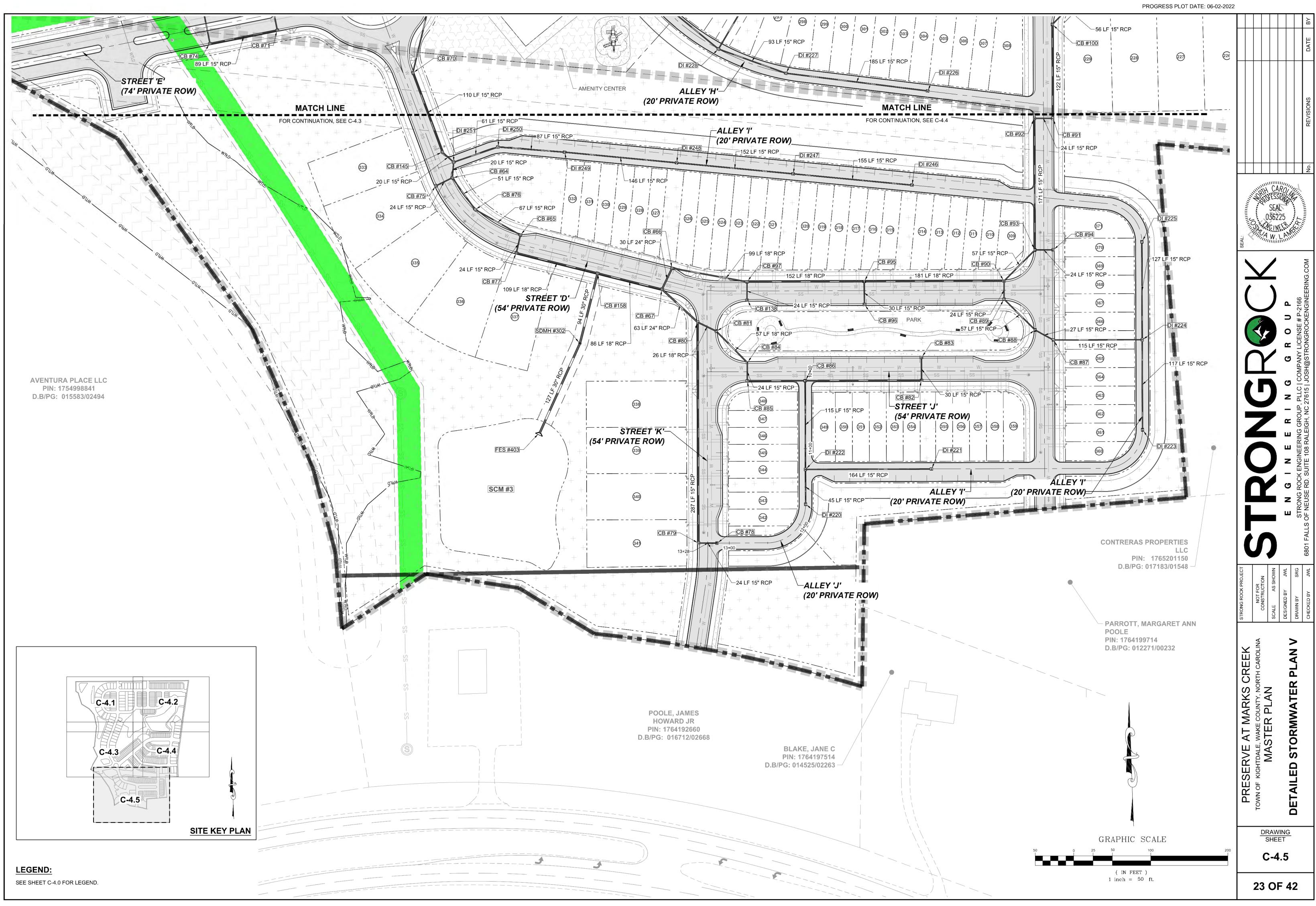
PROGRESS PLOT DATE: 06-02-2022













-								
LE	LEGEND:							
	ULMUS PARVIFOLIA (UP)							
器	ACER SACCHARUM (AS)							
•	LAGERSTROEMIA INDICA (LI)							
•	ILEX GLABRA (IG)							
*	ILEX X 'NELLIE R STEVENS (IN)							
	QUERCUS NUTTALLII							

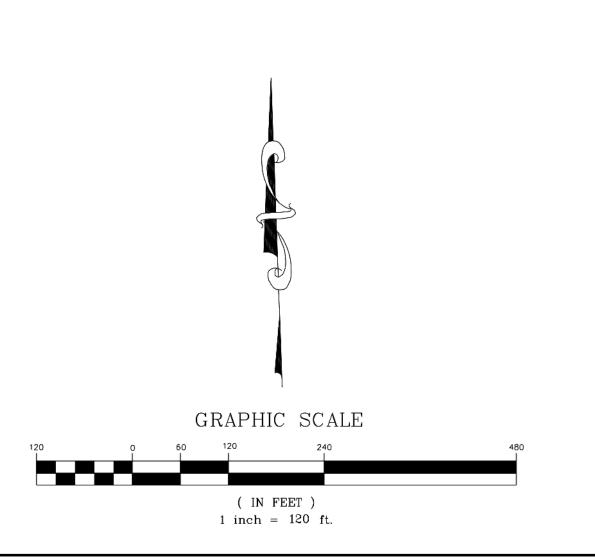
<u>S</u> 1	STREET TREE TABLE:							
KEY	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	TYPE	REMARKS	
UP	246	ULMUS PARVIFOLIA	LACEBARK ELM	2.5" CAL, 12` MIN.	B&B	STREET TREES	SINGLE STRAIGHT LEADER. FULL & HEAVY.	
AS	243	ACER SACCHARUM	SUGAR MAPLE	2.5" CAL, 12` MIN.	B&B	STREET TREES	SINGLE STRAIGHT LEADER. FULL & HEAVY.	
UNDE	RSTOR	Y TREES						

	296	QUERCUS NUTTALLII	NUTTALL OAK	2.5" CAL., 10' HT MIN.	B&B	STREET TREES	
LI	31	LAGERSTROEMI A INDICA	CRAPE MYTLE	1.5" CAL., 18' HT MIN.	B&B	STREET TREES	

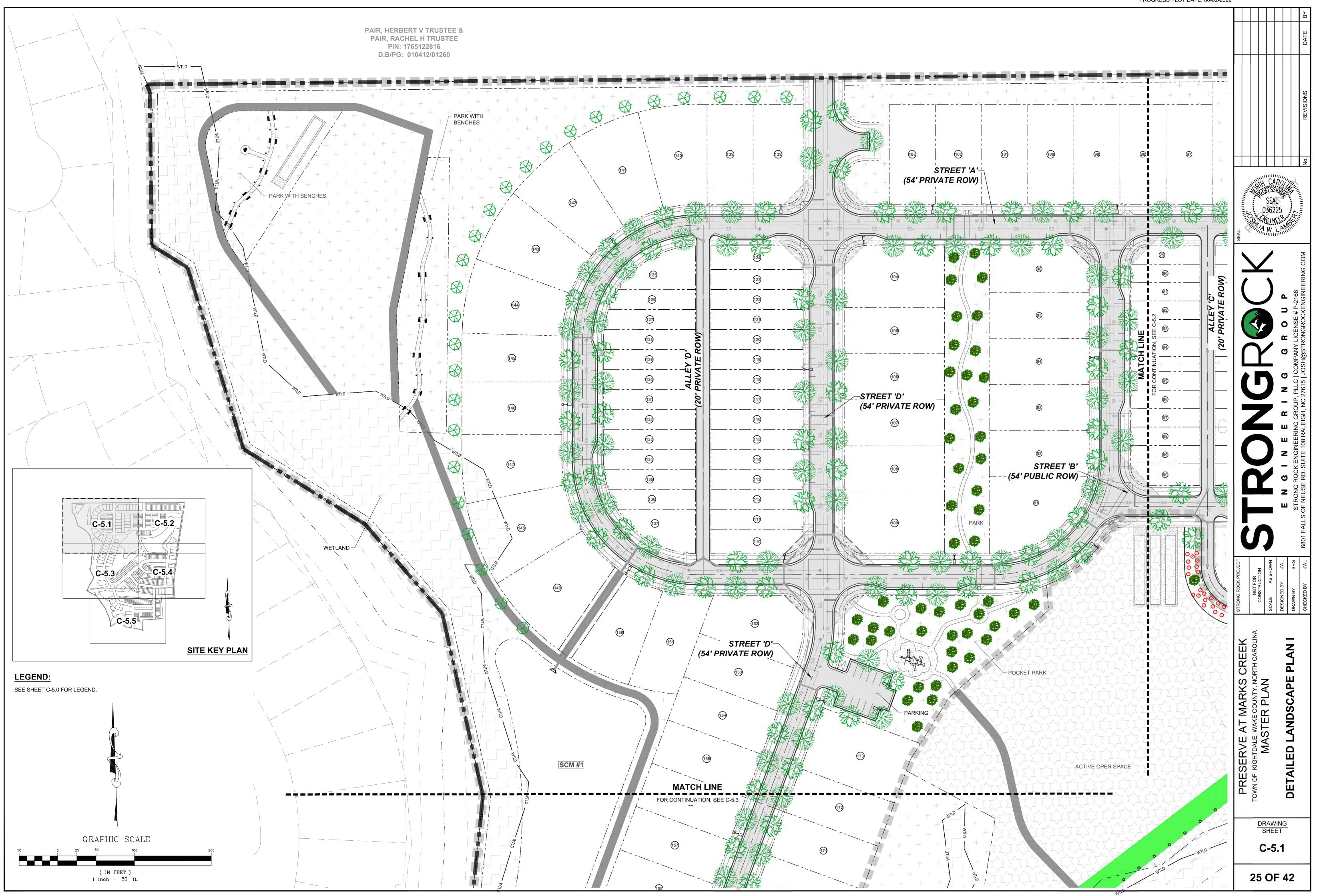
SHUF	SHURBS								
IG	1087	ILEX GLABRA	INKBERRY HOLLY	24" HT	5 GAL.	PERIMETER BUFFER	FULL & HEAVY. HEIGHT: 4' AFTER 2 YEARS.		
IN	41	ILEX X' NELLIE R STEVENS	NELLIE STEVENS HOLLY	24" HT	5 GAL.	PERIMETER BUFFER	FULL & HEAVY. HEIGHT: 4' AFTER 2 YEARS.		

GENERAL PLANTING NOTES:

- 1. STREET TREES SHALL BE LOCATED WITHIN THE RIGHT OF WAY.
- STREET TREES SHALL BE PLANTED BY EACH BUILDER PRIOR TO RECEIVING C.O. FOR HOUSE.
- ALL LANDSCAPING SHOULD BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TOWN OF KNIGHTDALE'S UDO.
 ALL PLANT MATERIALS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK
- ANSI.Z60.
 5. CONTRACTOR ENGAGED IN LANDSCAPE IMPLEMENTATION SHALL BE A LANDSCAPE
- CONTRACTOR REGISTERED IN THE STATE OF NORTH CAROLINA.6. SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT.
- 7. ALL NEW TREES TO HAVE A 5' DIAMETER SHREDDED HARDWOOD MULCH RING AT 4" DEEP UNLESS OTHERWISE NOTED OR LOCATED IN A PLANT BED PER SITE PLAN.
- 8. LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIALS FOR A ONE YEAR PERIOD FOLLOWING SUBSTANTIAL COMPLETION.
- 9. AREAS DAMAGED BY LANDSCAPE CONTRACTOR TO BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 10. ALL LANDSCAPE ISLANDS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
- 11. ALL ABOVE GROUND UTILITIES MUST BE SCREENED.

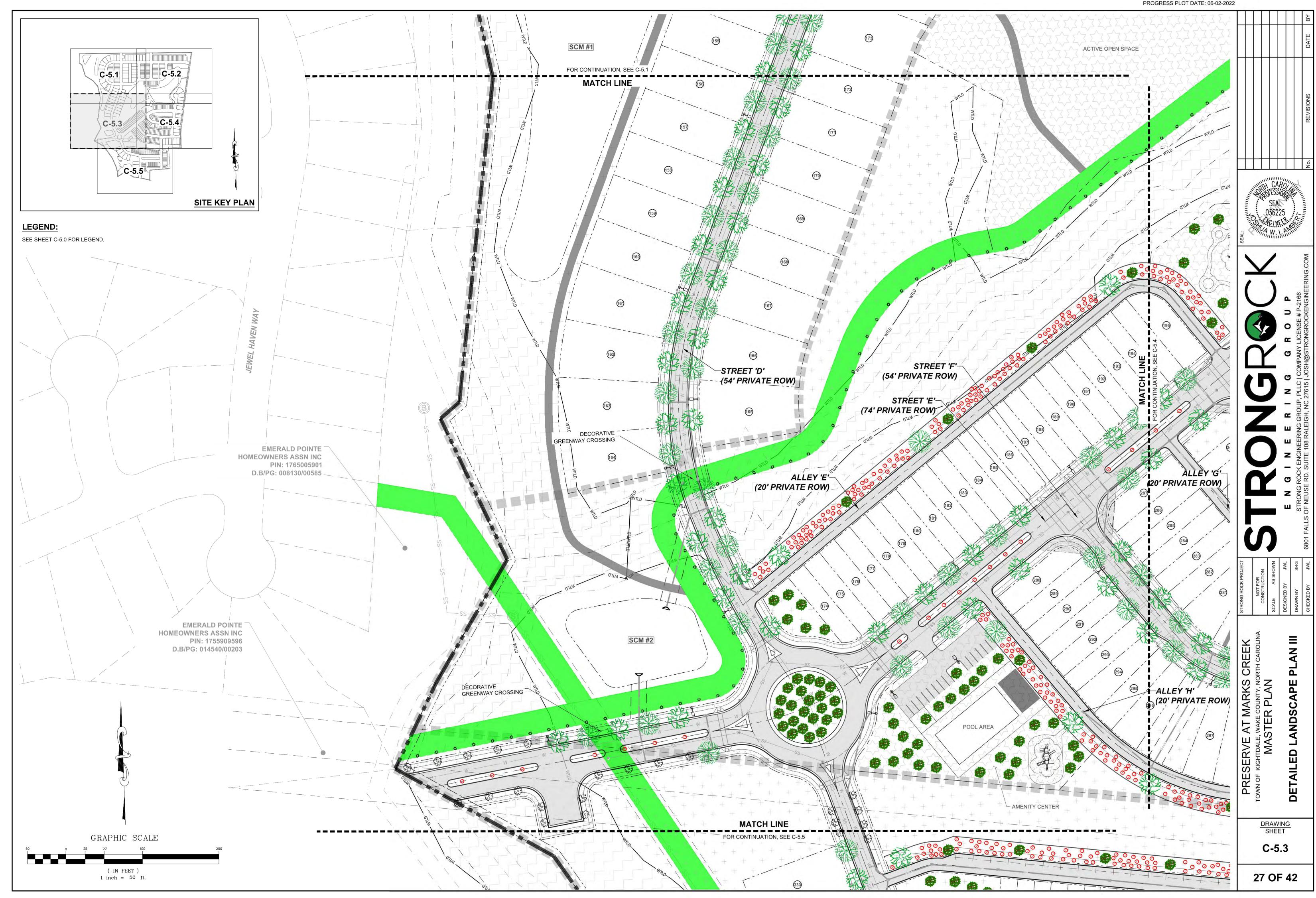




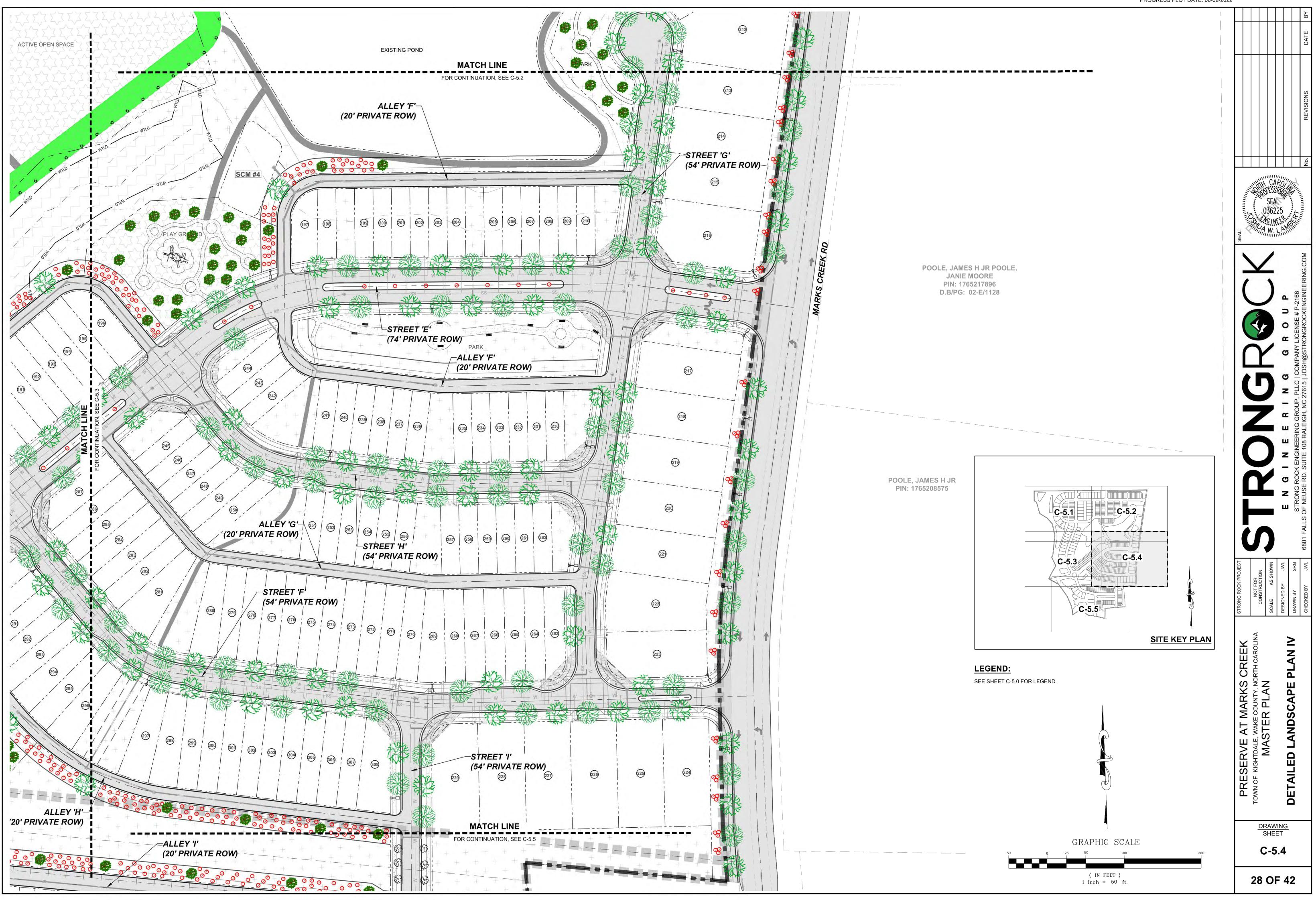


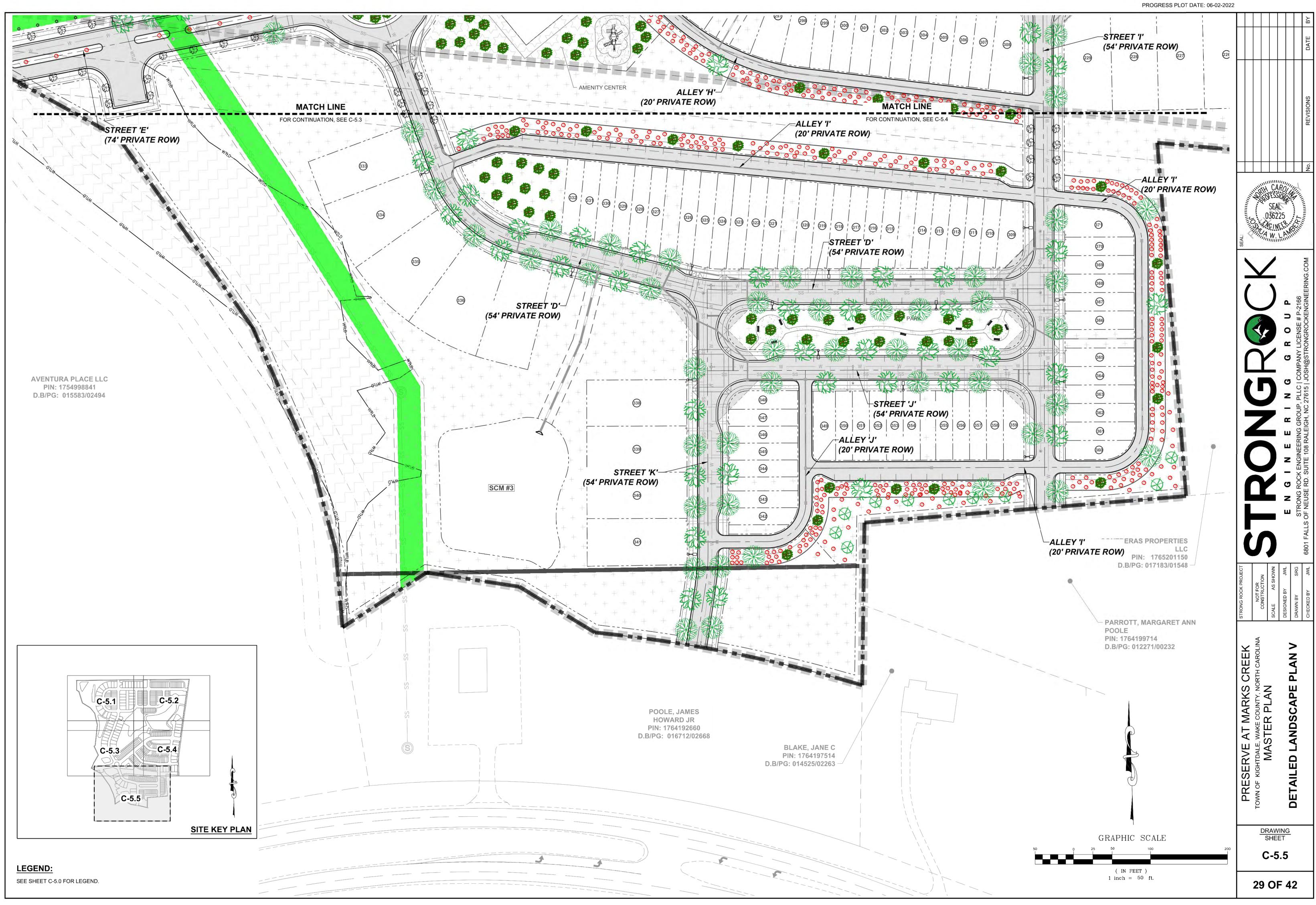


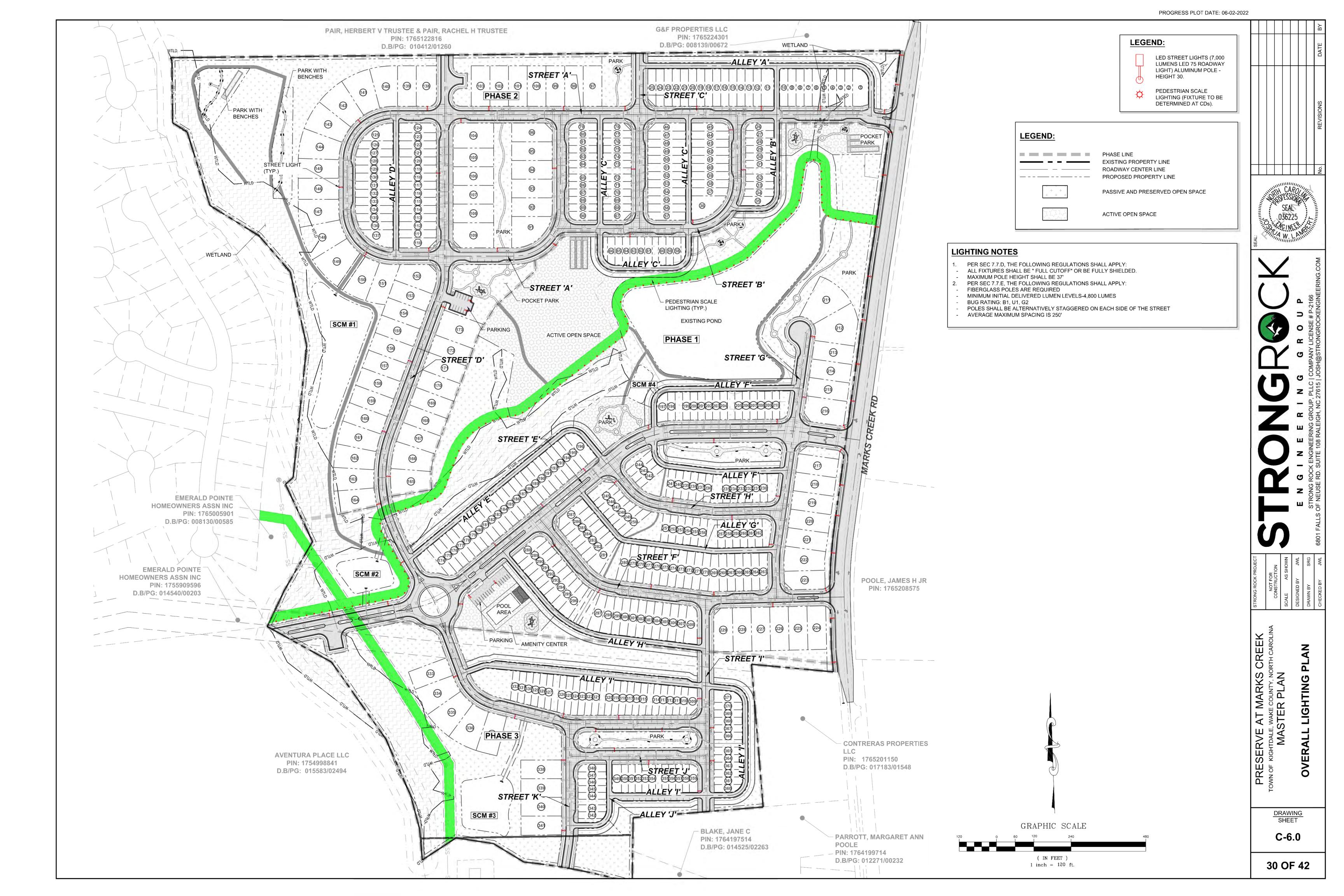


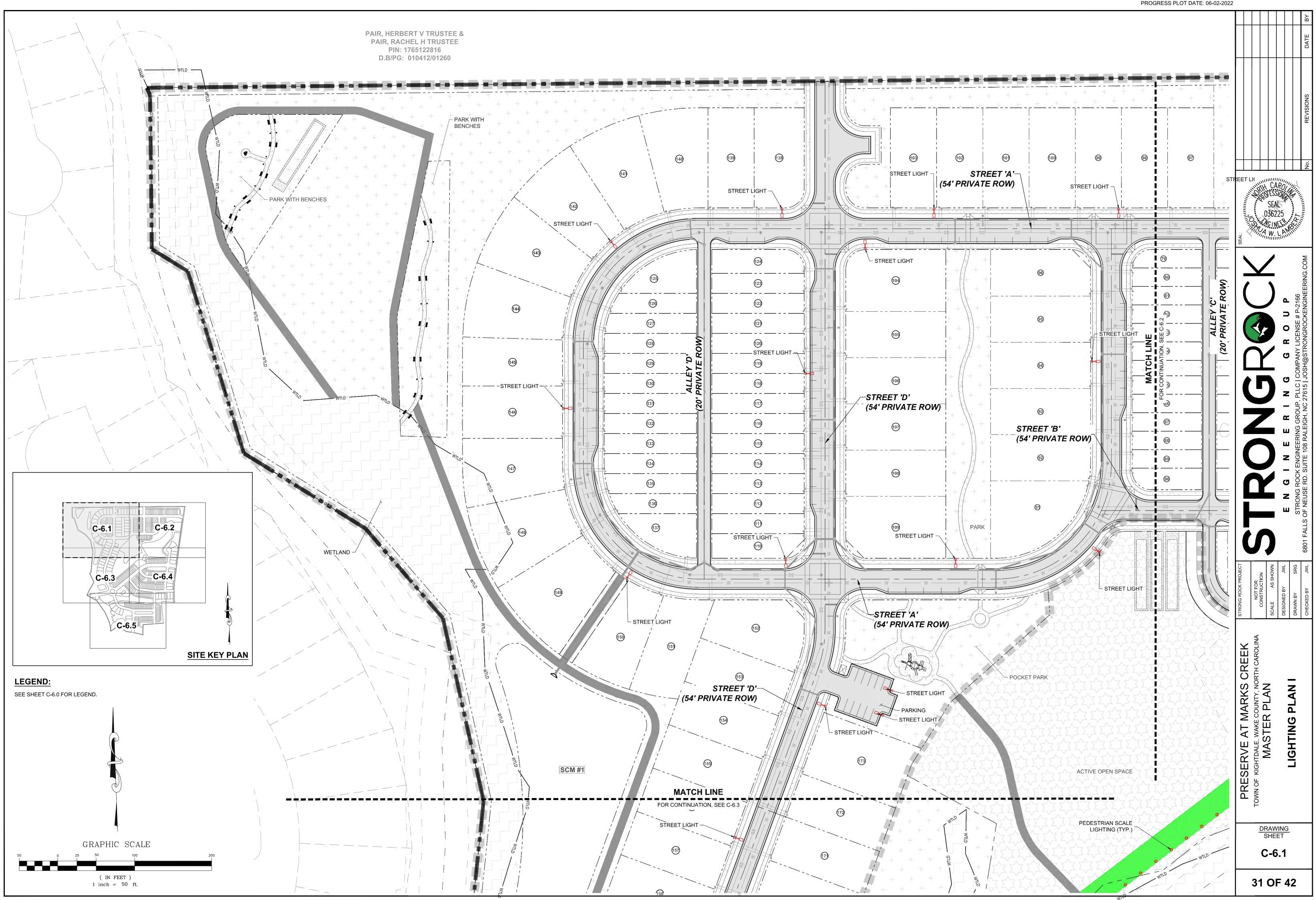


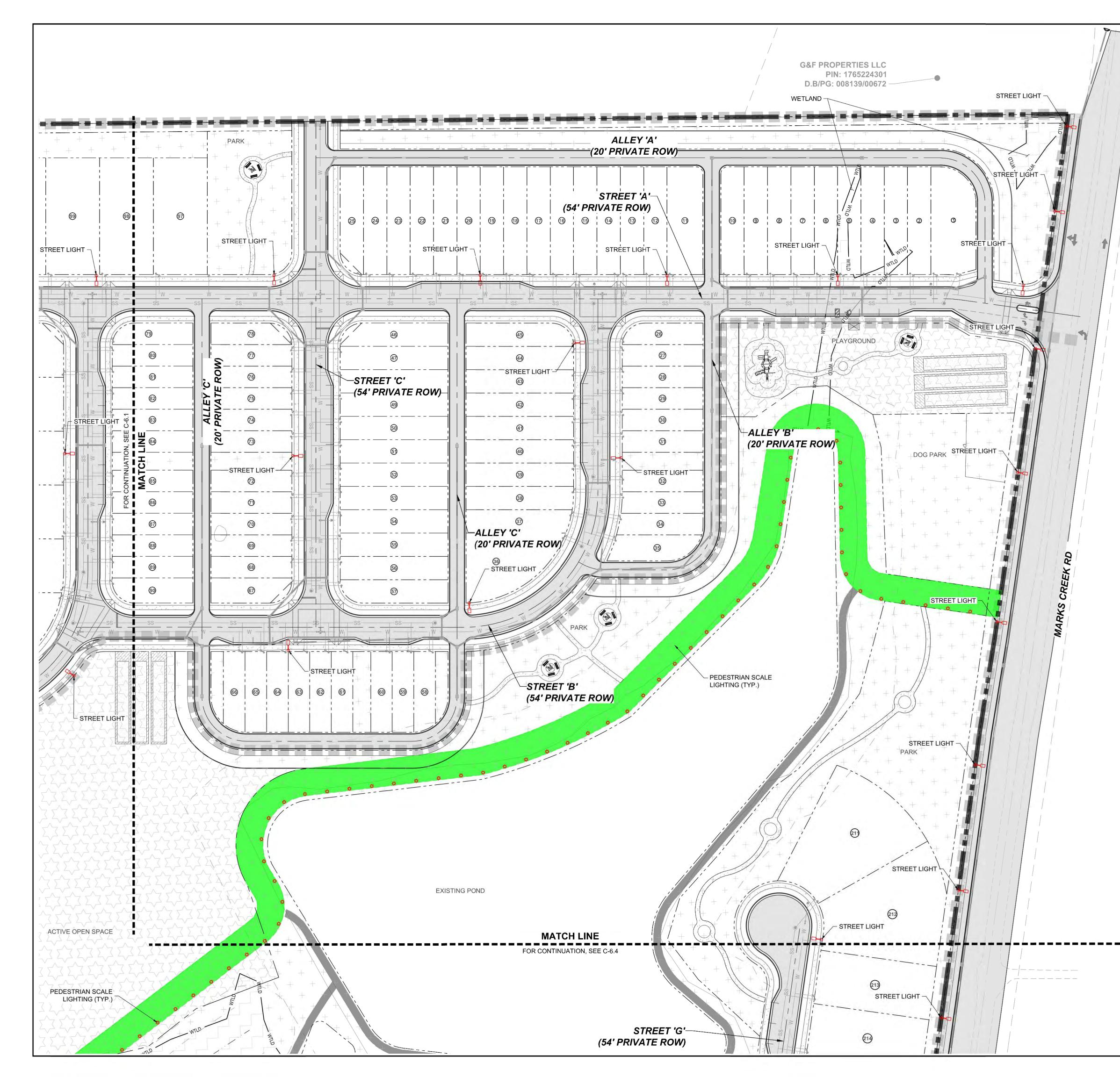




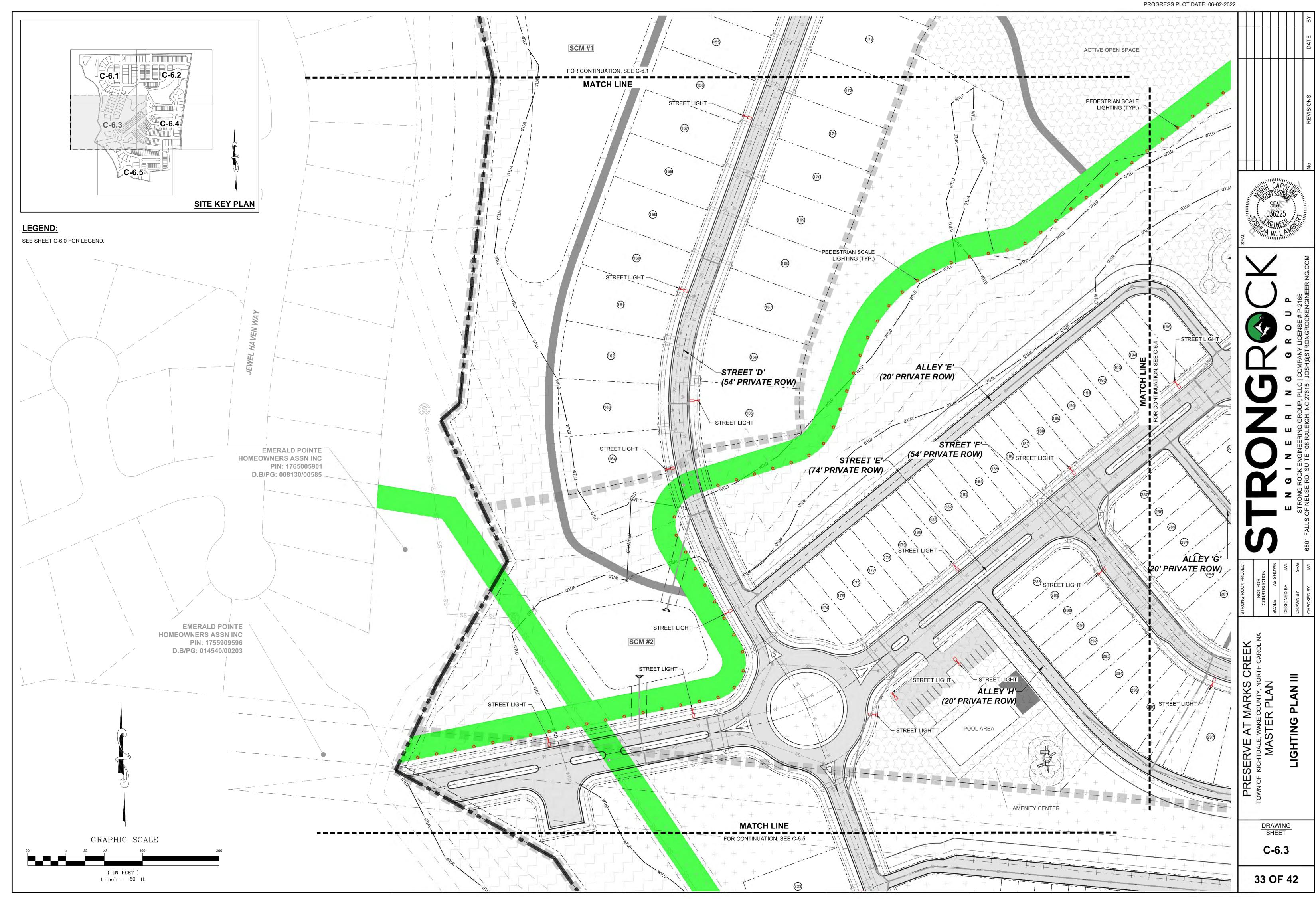


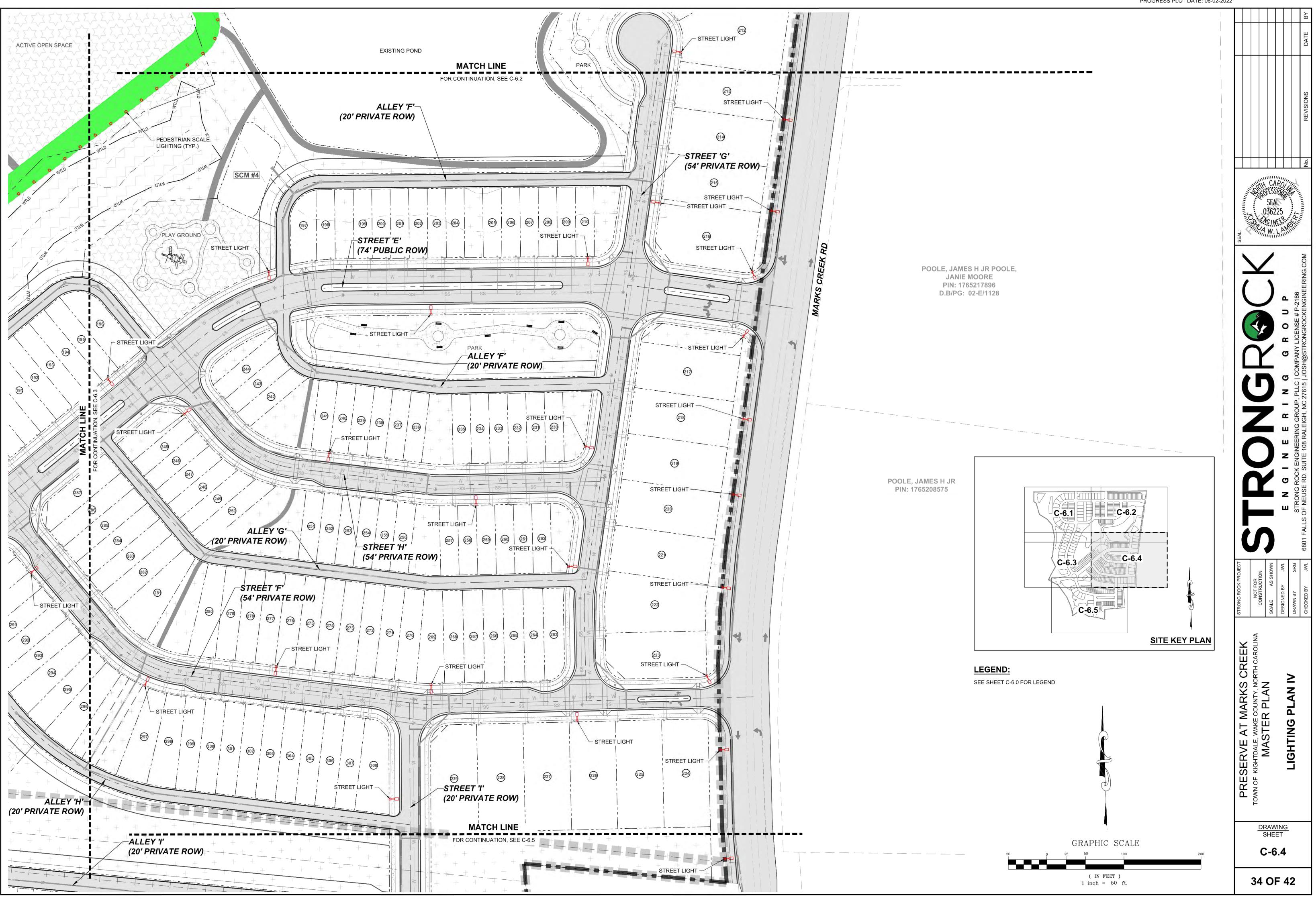


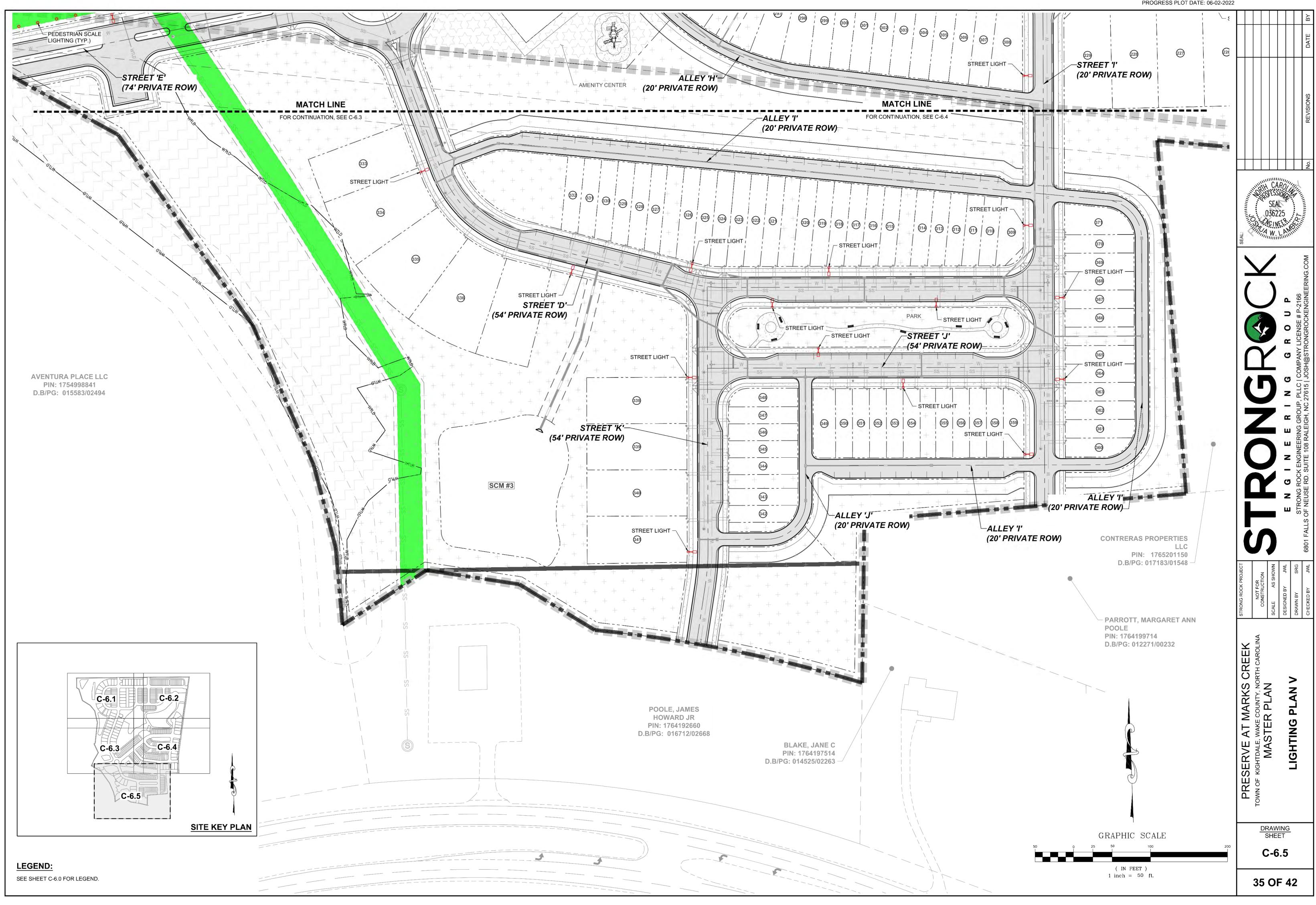




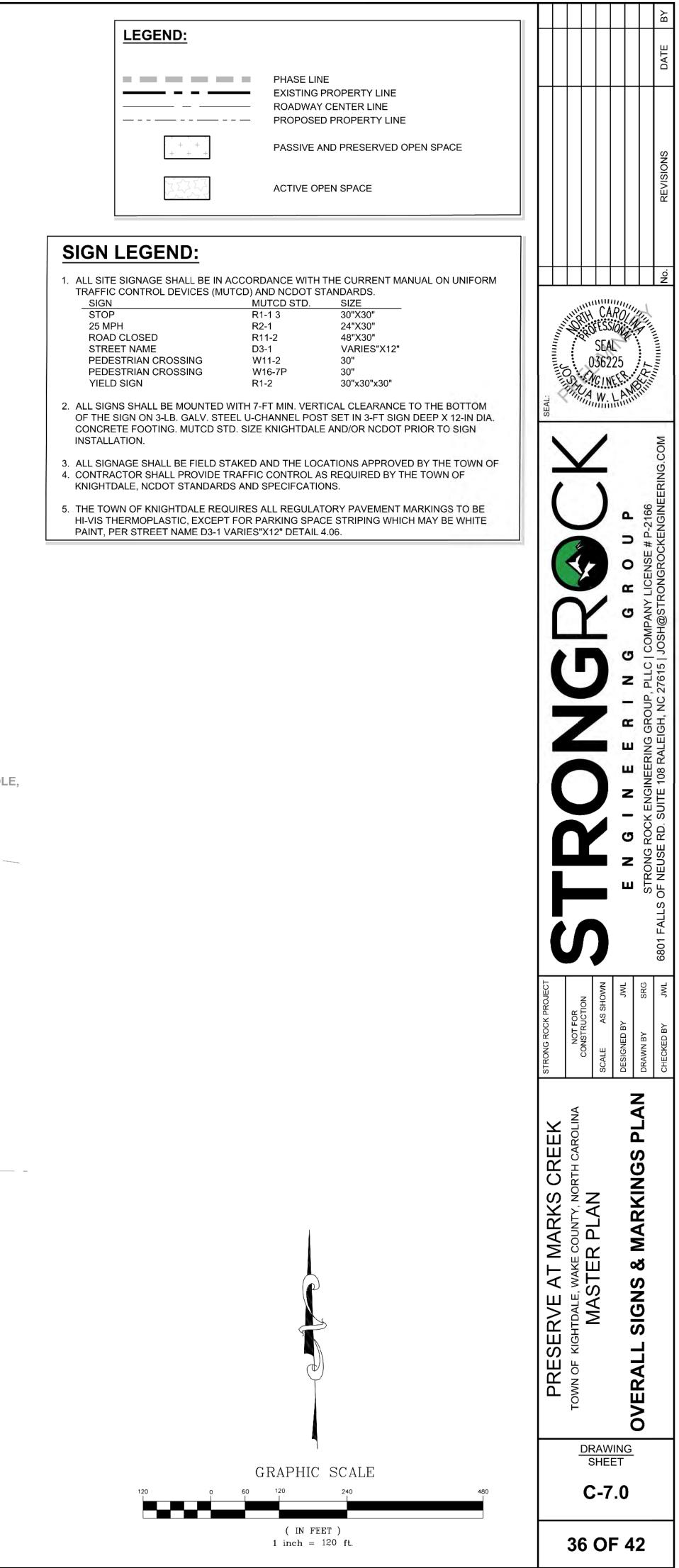


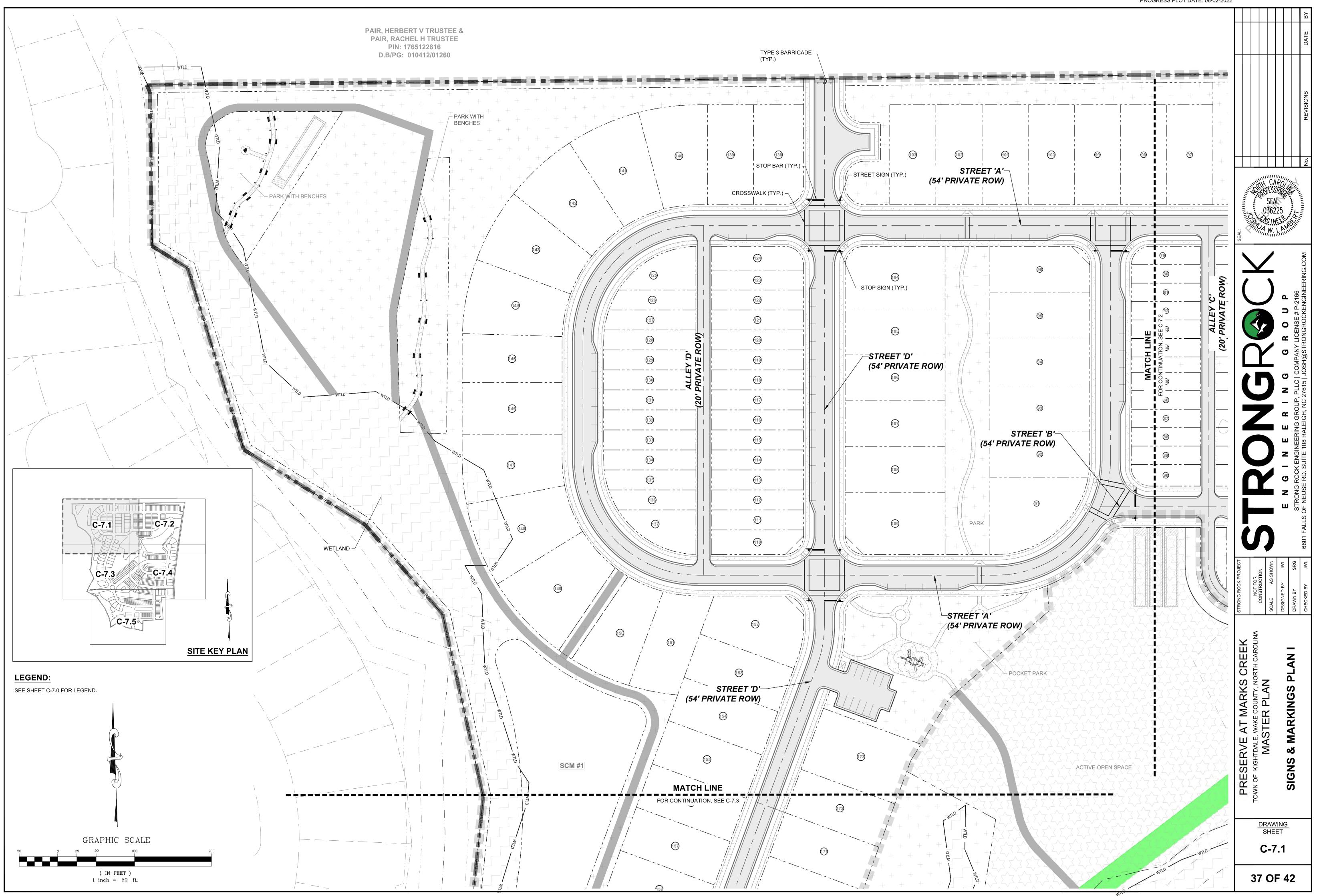


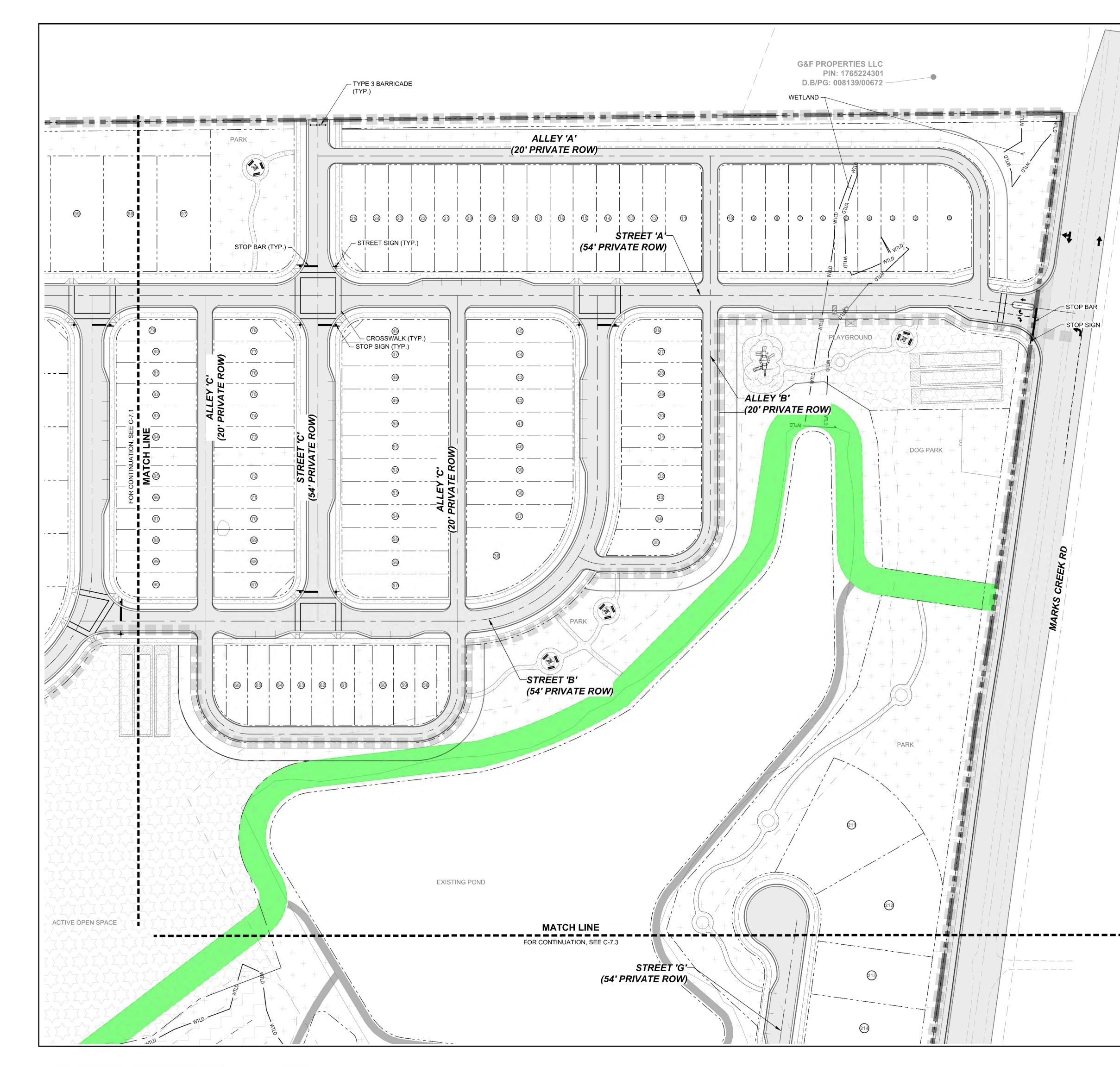




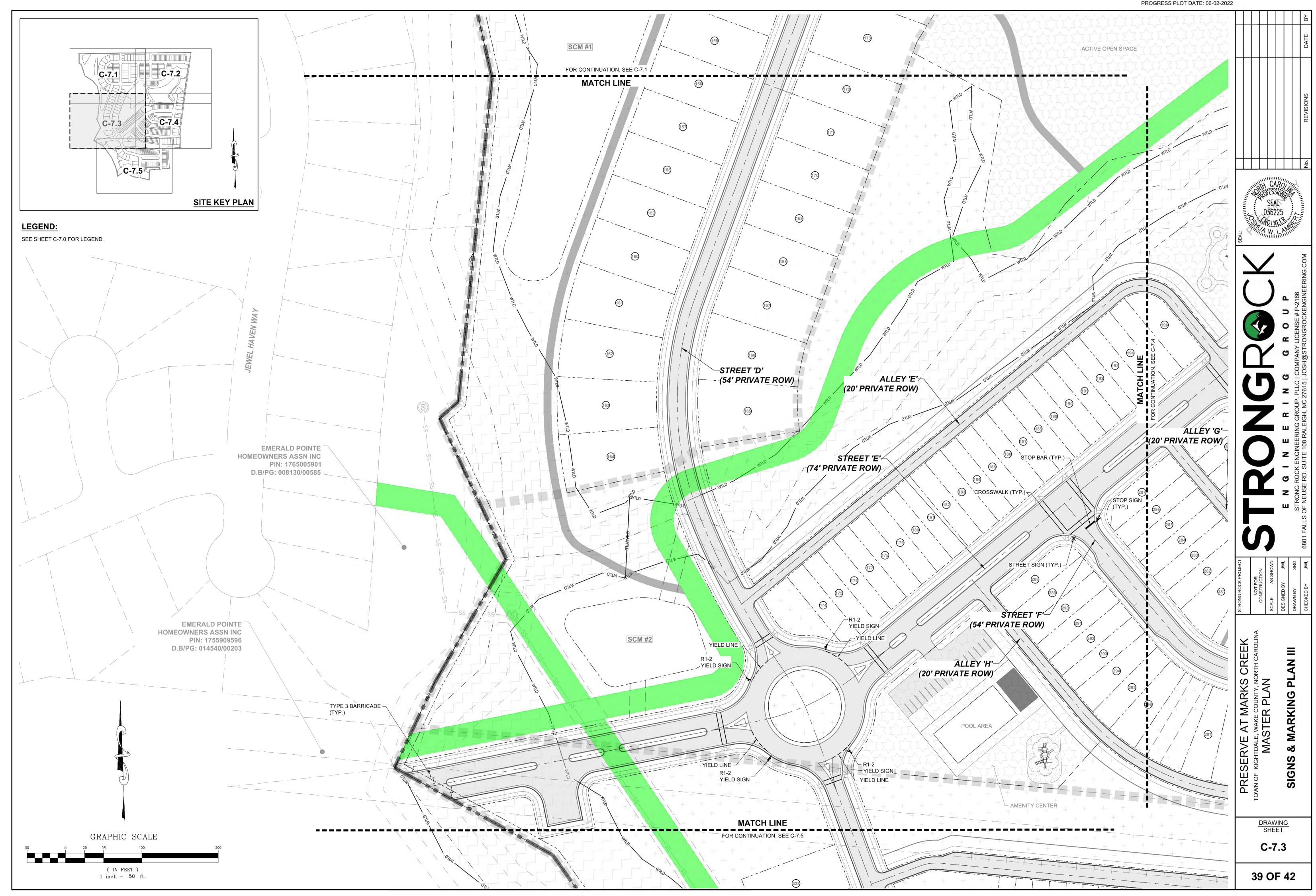




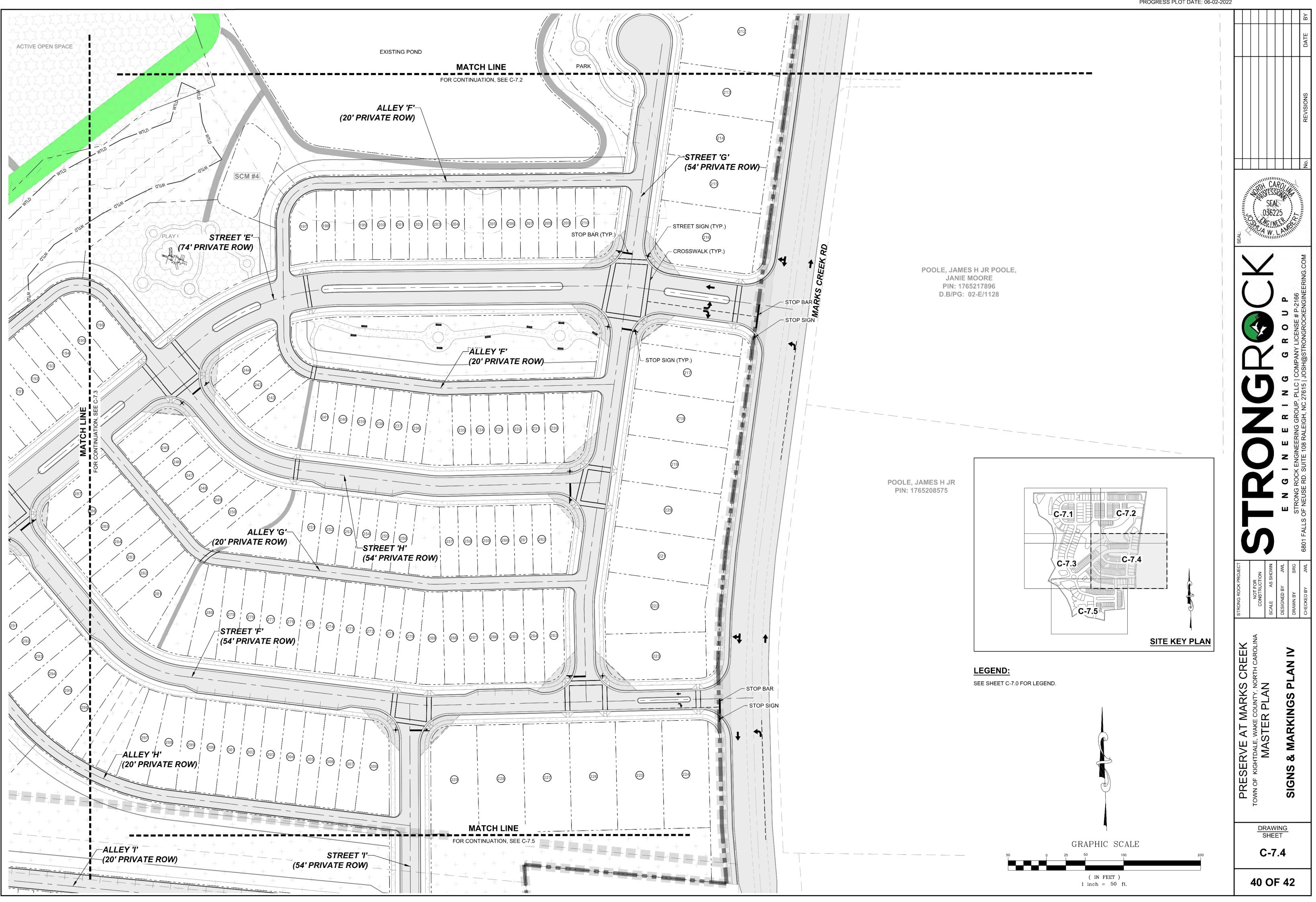


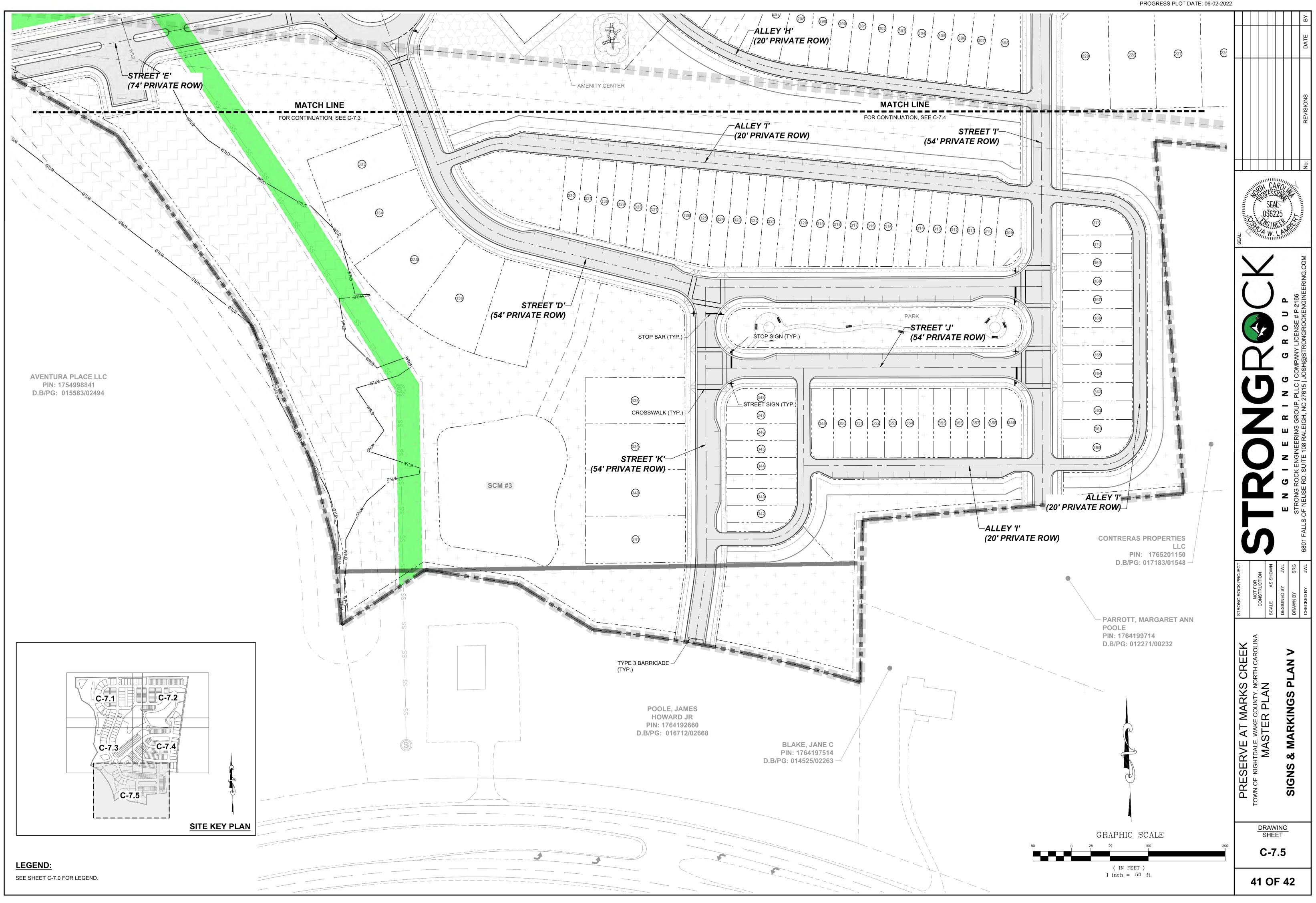






PROGRESS PLOT DATE: 06-02-2022





PROGRESS PLOT DATE: 06-02-2022





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SITE DATA TABLE				
IGINEERING:	STRONG ROCK ENGINEERING GROUP, PLLC PO BOX 55992 RALEIGH, NC 27624 COMPANY LICENSE #: P-2166 CONTACT: JOSH LAMBERT, PE 984.200.1932 (O) JOSH@STRONGROCKGROUP.COM			
	JAMES AND RHONDA POOLE 7633 KNIGHTDALE BLVD STE 101 KNIGHTDALE, NC 27545 MICHAEL AND JESSICA BLAKE 2609 MARKS CREEK RD, KNIGHTDALE NC 27545 984-200. 1932 (O) CONTACT: JOSH LAMBERT JOSH@STRONGROCKGROUP.COM			
	1765-21-3753, 1765-21-2492, 1765-21-2260, 1765-10-9558, 1765-11-8263, 1765-11-2567			
EFERENCE	DB. 8139 PG. 672			
HP:	KNIGHTDALE			
	RT			
IT USE:	SINGLE FAMILY/ WOODED LAND			
GED USE:	RESIDENTIAL			
GED ZONING:	GR3-PUD			
PROJECT AREA:	101.59 AC			
GED DENSITY:	3.65 DU/AC			
ASIN:	NEUSE			

OAD SINGLE FAMILY LOT STANDARDS:	MINIMUM LOT SIZE: 7,800 SF LOT WIDTH: 60' FRONT SETBACK: 10' SIDE SETBACK: 5' CORNER SETBACK: 10' REAR SETBACK: 25'
DAD SINGLE FAMILY LOT STANDARDS:	MINIMUM LOT SIZE: 3,600 SF LOT WIDTH: 26' FRONT SETBACK: 10' SIDE SETBACK: 3' CORNER SETBACK: 10' REAR SETBACK: 25'
DAD TOWNHOME LOT STANDARDS:	MINIMUM LOT SIZE: 2,160 SF LOT WIDTH: 24' FRONT SETBACK: 10' SIDE SETBACK: N/A CORNER SETBACK: N/A REAR SETBACK: 15'

STROCATION STRUCTURE

DESCO INVESTMENT CO., INC. IS A NORTH CAROLINA BASED LAND DEVELOPMENT COMPANY WITH EXPERIENCE IN CREATING EXEMPLARY MASTER-PLANNED COMMUNITIES ACROSS THE STATE. DESCO IS SEASONED IN ALL ASPECTS OF THE LAND DEVELOPMENT PROCESS, FROM PLANNING AND ZONING, ENVIRONMENTAL ISSUES AND LOCAL ORDINANCES, TO THE CONSTRUCTION AND EVENTUAL LONG-TERM MAINTENANCE OF EACH UNIQUE NEIGHBORHOOD. DESCO PRIDES ITSELF ON THE PROFESSIONAL EXECUTION OF ALL THESE CRITICAL ASPECTS, AS WELL AS AN UNWAVERING COMMITMENT TO ACHIEVE AESTHETICALLY PLEASING NEIGHBORHOODS THAT ENHANCE THEIR RESPECTIVE COMMUNITIES AND MUNICIPALITIES. DESCO PARTNERS WITH LOCAL CUSTOM-HOME BUILDERS, MAJOR REGIONAL BUILDERS, AS WELL AS WITH SOME OF THE NATION'S LARGEST BUILDERS.

IT IS WITH THIS EXPERIENCE AND ATTENTION TO DETAIL THAT DESCO HAS PLANNED AN EXCITING DESTINATION COMMUNITY IN THE PRESERVE AT MARKS CREEK, A DEVELOPMENT THAT ACCENTUATES MANY OF THE GOALS OF THE KNIGHTDALE NEXT 2035 COMPREHENSIVE PLAN. THIS COMMUNITY PRESENTS A DISTINCTIVE ARRAY OF PRODUCT DIVERSITY WITH TRADITIONAL SINGLE-FAMILY HOMES, ALLEY-FED SINGLE-FAMILY HOMES, TWO-STORY ALLEY-FED TOWNHOMES AND THREE-STORY ALLEY-FED TOWNHOMES, BRINGING A LARGE VARIETY OF EXPANDED HOUSING OPTIONS TO THIS AREA OF KNIGHTDALE. THE USE OF ALLEY-FED PRODUCTS WILL GIVE THE COMMUNITY AN INVITING FRONT PORCH AMBIANCE THAT CAN BE ENJOYED BY RESIDENTS OF THE COMMUNITY WHILE ALSO PROVIDING AN ATTRACTIVE NEIGHBORHOOD FEEL FOR ANYONE DRIVING THROUGH. A MEDIAN-DIVIDED COLLECTOR STREET IS ALSO PROVIDED IN CONJUNCTION WITH THE COMPREHENSIVE PLAN, STUBBING TO THE WEST IN WHAT WILL IN THE FUTURE BE A LARGER NETWORK OF TRANSPORTATION INFRASTRUCTURE IN THE AREA. THE RESIDENTS WILL ENJOY AN ARRAY OF WELL-CONSIDERED AMENITIES, SUCH AS, AN INVITING POOL AND RECREATION AREA, POCKETS PARKS WITH FAMILY-FRIENDLY FEATURES, DOG PARKS, A MEDITATION GARDEN AND BOCCE COURTS.

AFTER CAREFUL CONSIDERATION, THE EXISTING POND HAS BEEN INCORPORATED INTO THE COMMUNITY DESIGN AND WILL BE ENHANCED WITH A WALKING TRAIL AND A LIGHTED FOUNTAIN FOR THE ENJOYMENT OF ALL. TRAILS WILL ALSO BE INCLUDED ALONG MARKS AND WILL TIE INTO ALL THE SIDEWALKS AND POND TRAIL AS WELL AS A PROPOSED PUBLIC GREENWAY EASEMENT THAT IS CONTEMPLATED WITHIN THE COMPREHENSIVE PLAN, LINKING THE GREAT NEIGHBORHOODS OF KNIGHTDALE WITH THE PUBLIC PARKS AND RECREATIONAL OPPORTUNITIES. THUS, THE TREMENDOUS NATURAL FEATURES CURRENTLY PRESENT ON THE SITE WILL NOT ONLY BE PRESERVED BUT ALSO ACCENTED AND ENHANCED BY ADDITIONAL PROGRAMMED OPEN SPACE TO BENEFIT THE COMMUNITY.

THE PRESERVE AT MARKS CREEK, AT ITS VERY ESSENCE, WILL BE A WALKABLE NEIGHBORHOOD IN WHICH FAMILIES CAN RELAX AND ENJOY THE MANY AMENITIES AND THOUGHTFUL DESIGN. THE PRESERVE AT MARKS CREEK WILL BE A CHARMING ADDITION TO THE VIBRANT KNIGHTDALE COMMUNITY.

SON VISON VISON

COMPREHENSIVE PLAN CONSISTENCY STATEMENT AND FINDINGS OF FACT

THE PRESERVE AT MARKS CREEK ACCENTUATES FACETS OF MANY OF THE GUIDING PRINCIPLES OF THE KNIGHTDALENEXT 2035 COMPREHENSIVE PLAN, AS WELL AS ADDRESSING UNIFIED DEVELOPMENT ORDINANCE FINDINGS OF FACT INCLUDING:

GREAT NEIGHBORHOOD AND EXPANDED HOME CHOICES

THE COMPREHENSIVE PLAN SEEKS TO CREATE POLICIES THAT CREATE EXPANDED HOUSING CHOICES, STATING "NEW NEIGHBORHOODS SHOULD MIX TWO OR MORE HOUSING CHOICES INTO ONE COMMUNITY." THE PRESERVE AT MARKS CREEK PRESENTS A DISTINCTIVE ARRAY OF PRODUCT DIVERSITY WITH TRADITIONAL SINGLE-FAMILY HOMES, ALLEY-FED SINGLE-FAMILY HOMES, TWO-STORY ALLEY-FED TOWNHOMES AND THREE-STORY ALLEY-FED TOWNHOMES, BRINGING A LARGE VARIETY OF EXPANDED HOUSING OPTIONS TO THIS AREA OF KNIGHTDALE. THE USE OF ALLEY-FED PRODUCTS WILL GIVE THE COMMUNITY AN INVITING FRONT PORCH AMBIANCE THAT CAN BE ENJOYED BY RESIDENTS OF THE COMMUNITY WHILE ALSO PROVIDING AN ATTRACTIVE NEIGHBORHOOD FEEL FOR ANYONE DRIVING THROUGH.

THIS COMMUNITY ALSO FITS WITHIN THE MIXED DENSITY NEIGHBORHOOD DESIGNATION FOR THE PARCELS AS INDICATED IN THE GROWTH AND CONSERVATION MAP. AS NOTED IN THE COMPREHENSIVE PLAN, MIXED DENSITY NEIGHBORHOODS SHOULD HAVE HOUSING "ORIENTED TO THE INTERIOR OF THE SITE AND ARE TYPICALLY BUFFERED FROM SURROUNDING DEVELOPMENT BY TRANSITIONAL USES, PRESERVED OPEN SPACE, OR LANDSCAPED AREAS." FURTHER, COMMUNAL OPEN SPACES AND PRESERVED AREAS THROUGHOUT THE COMMUNITY ARE ENCOURAGED BY THE PLAN. THE DESIGN OF THE PRESERVE AT MARKS CREEK ACHIEVES THESE GOALS BY ORIENTING MUCH OF THE DEVELOPMENT TO THE INTERIOR OF THE SITE WHILE ALSO PROVIDING FOR A MINIMUM OF 20' BUFFERS ALONG ALL PROPERTY LINES, ALTHOUGH MANY TRANSITIONAL BUFFERS ARE MUCH WIDER DUE TO THE PRESENT OF NATURAL FEATURES SUCH AS STREAMS, TREE STANDS, AND WETLANDS. THE TREMENDOUS NATURAL FEATURES CURRENTLY PRESENT ON THE SITE WILL NOT ONLY BE PRESERVED BUT ALSO ACCENTED AND ENHANCED BY ADDITIONAL PROGRAMMED OPEN SPACE PLACED THROUGHOUT TO BENEFIT THE COMMUNITY.

NATURAL ENVIRONMENT

THE COMPREHENSIVE PLAN SEEKS TO "PROMOTE AND EXPAND OPPORTUNITIES FOR PEOPLE TO EXPERIENCE NATURAL SETTINGS IN KNIGHTDALE", AS WELL AS PROVIDE PROTECTION FOR THE TOWN'S NATURAL RESOURCES. THE PRESERVE AT MARKS CREEK PROPOSES TO PRESERVE AND AT TIMES ENHANCE, THROUGH MEANS OF ACCESSIBLE TRAILS AND BOARDWALKS, THE NATURAL STREAM FEATURES AND WETLAND FEATURES ON THE PROPERTY. THE EXISTING FARM POND, WHICH HAS BEEN DELINEATED AS A NON-JURISDICTIONAL POND, WILL REMAIN IN IT'S CURRENT FORM WITH TRAILS AND A PROPOSED GREENWAY EASEMENT ALLOWING THE COMMUNITY AT LARGE TO ENJOY IT'S NATURAL BEAUTY.

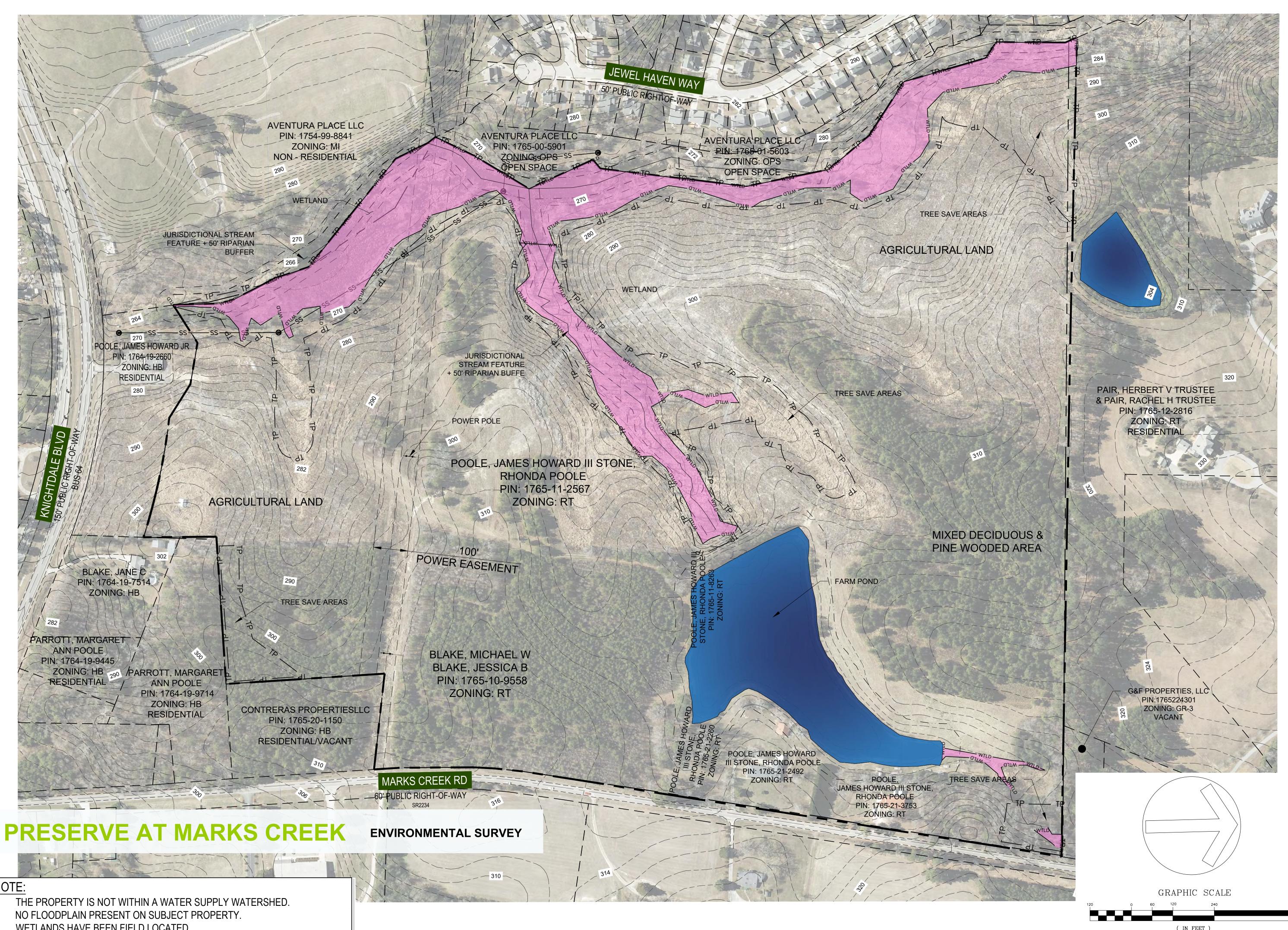
PARKS AND RECREATION 3.

THE COMPREHENSIVE PLAN AIMS TO PROMOTE THE ESTABLISHMENT OF GREEN SPACES AND PARKS WITHIN THE KNIGHTDALE COMMUNITY. THE PRESERVE AT MARKS CREEK OFFERS SEVERAL OPPORTUNITIES FOR RESIDENTS TO ENJOY ACTIVE AND PASSIVE OPEN SPACES SUCH AS THE PROPOSED AMENITY CENTER WITH AN INVITING POOL AND CABANA. POCKET PARKS WITH FAMILY-FRIENDLY FEATURES SUCH AS PLAYGROUNDS, DOG PARKS, A MEDITATION GARDEN, AND BOCCE COURTS. ADDITIONALLY, AN EXTENSIVE NETWORK OF TRAILS WILL PROVIDE TO NATURAL AREAS ON THE SITE AS WELL AS CONNECTING TO THE PROPOSED PUBLIC GREENWAYS CONTEMPLATED BY THE PLAN, LINKING THE GREAT NEIGHBORHOODS OF KNIGHTDALE WITH PUBLIC PARKS AND RECREATIONAL OPPORTUNITIES.

TRANSPORTATION 4.

THE COMPREHENSIVE PLAN SEEKS TO "CONSIDER LAND USE AND INFRASTRUCTURE INVESTMENTS TOGETHER" AND "EMPHASIZE A SAFE AND EFFICIENT TRANSPORTATION SYSTEM". THE PRESERVE AT MARKS CREEK PROVIDES THE BASIS FOR A NEW STREET CONNECTIVE STREET NETWORK IN THIS AREA OF KNIGHTDALE. ALTHOUGH THE COMMUNITY UNFORTUNATELY CANNOT CONNECT TO THE ADJACENT EMERALD POINTE SUBDIVISION DUE TO A LACK OF STUB ROADS WITHIN THAT DEVELOPED COMMUNITY, WE PROPOSE A SERIES OF STUBS TO ADJACENT PROPERTIES TO ENHANCE FUTURE INTERCONNECTIVITY. THERE ARE THREE PROPOSED ACCESS POINTS ONTO MARKS CREEK ROAD WITH ONE OF THESE STREETS BEING A COLLECTOR STREET THAT WILL ALSO STUB TO THE ADJACENT PROPERTY TO THE WEST, AS CONTEMPLATED IN THE COMPREHENSIVE PLAN.

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NOTE:

- THE PROPERTY IS NOT WITHIN A WATER SUPPLY WATERSHED.
- 2.
- WETLANDS HAVE BEEN FIELD LOCATED. 3.

SURVE <ONMEN ENV R SNO N X

(IN FEET) 1 inch = 120 ft.

UNIFIED DEVELOPMENT ORDINANCE MODIFICATIONS

THE PRESERVE AT MARKS CREEK ENDEAVORS TO MEET THE REQUIREMENTS, AS WELL AS THE SPIRIT AND INTENT, OF THE UNIFIED DEVELOPMENT ORDINANCE. THERE ARE A FEW INSTANCES WHERE THE DESIGN DEVIATES FROM THE UNIFIED DEVELOPMENT ORDINANCE. THE PROPOSED MODIFICATIONS WITH RATIONALE FOR ALTERNATIVE MEANS OF COMPLIANCE ARE SHOWN AS FOLLOWS:

MODIFICATION TO REDUCE MINIMUM WIDTH OF FRONT-LOADED SINGLE FAMILY DWELLINGS TO 60' WIDE

SECTION 3.4 OF THE UNIFIED DEVELOPMENT ORDINANCE REQUIRES THAT ANY LOT LESS THAN 80' IN WIDTH BE REAR-LOADED. WE REQUEST THAT THE LOT WIDTH FOR THE PRESERVE AT MARKS CREEK BE REDUCED TO 60' WITH THESE UNITS RECEIVING FRONT ACCESS DUE TO SITE CONSTRAINTS RELATED TO EXTENSIVE WETLANDS AND BUFFERED STREAMS ON THE PROPERTY. EXTENSIVE ARCHITECTURAL CONDITIONS HAVE BEEN DEVISED IN CONJUNCTION WITH FEEDBACK FROM THE TOWN'S PLANNING STAFF TO ENSURE A HIGH-QUALITY FRONT-LOADED PRODUCT.

ADDITIONALLY, SECTION 3.4 REQUIRES THAT THE DRIVEWAY LENGTH FOR SINGLE-FAMILY DETACHED DWELLINGS BE 35' IN LENGTH. IN ORDER TO PROMOTE A GREATER SENSE OF COMMUNITY THAT BRINGS THE SINGLE-FAMILY LIVING SPACES CLOSER TO THE PUBLICLY ACCESSIBLE SIDEWALKS AND RIGHTS-OF-WAY, SINGLE-FAMILY DWELLINGS WILL BE SERVED BY A DRIVEWAY THAT ARE A MINIMUM LENGTH OF 25'

MODIFICATION TO REDUCE MINIMUM LOT WIDTH FOR REAR-LOADED SINGLE FAMILY DWELLINGS TO 26' WIDE

SECTION 3.4 OF THE UNIFIED DEVELOPMENT ORDINANCE REQUIRES THAT SINGLE-FAMILY REAR-LOADED DWELLINGS BE A MINIMUM OF 30' IN WIDTH. THE PRESERVE AT MARKS CREEK PROPOSES A MINIMUM LOT WIDTH FOR THIS TYPE OF HOUSING OF 26', A WIDTH THAT HAS BEEN USED PREVIOUSLY BY THE PROSPECTIVE BUILDER, GARMAN HOMES, IN CELEBRATED APPROVED KNIGHTDALE NEIGHBORHOODS.

MODIFICATION TO MAXIMUM DENSITY IN GR3 DISTRICT

PER SECTION 2.2.D OF THE UNIFIED DEVELOPMENT ORDINANCE, NEIGHBORHOODS WITHIN THE GR3 BASE DISTRICT ARE LIMITED TO A MAXIMUM DENSITY OF 3 UNITS PER ACRE. THIS PROPOSAL PROVIDES A TOTAL DENSITY OF 3.65 UNITS PER ACRE. THIS SLIGHT INCREASE OVER 3 UNITS PER ACRE WILL NOT BE DETRIMENTAL TO NEIGHBORING PROPERTIES, MANY OF WHICH ARE ZONED FOR HIGHER DENSITIES SUCH AS GR-8 OR ARE ZONED FOR NON-RESIDENTIAL DISTRICTS SUCH AS HIGHWAY BUSINESS OR MANUFACTURING & INDUSTRIAL AND IS NECESSARY TO ACHIEVE A DISTRIBUTION OF HOUSING CHOICE OPTIONS FOR THE COMMUNITY.

S \bigcirc DINAN PME L L

GR3-PUD 753, 1765-11-8263, 1765-11-2567 101.59 AC 371 83 144 102 42 14,46 AC 7.23 AC	LEGEND 60' x 130' S/F LOT 24' x 90' TOWNHOME LOT (2- STORY) 26' x 120' S/F LOT 22' x 90' TOWNHOME LOT (3- STORY) 1 PARK 2 POCKET PARK 3 PARK WITH BENCHES 4 AMENITY CENTER 5 ACTIVE OPEN SPACE 6 GREENWAYS	TREE C 9,450 LF X NRB AREA: 6 TREE COVE
753, 1765-11-8263, 1765-11-2567 101.59 AC 371 83 144 102 42 14,46 AC	26' x 120' S/F LOT 22' x 90' TOWNHOME LOT (3- STORY) 1 PARK 2 POCKET PARK 3 PARK WITH BENCHES 4 AMENITY CENTER 5 ACTIVE OPEN SPACE	NRB AREA: 6
371 83 144 102 42 14,46 AC	 PARK POCKET PARK PARK WITH BENCHES AMENITY CENTER ACTIVE OPEN SPACE 	
371 83 144 102 42 14,46 AC	 2 POCKET PARK 3 PARK WITH BENCHES 4 AMENITY CENTER 5 ACTIVE OPEN SPACE 	
83 144 102 42 14,46 AC	 3 PARK WITH BENCHES 4 AMENITY CENTER 5 ACTIVE OPEN SPACE 	
144 102 42 14,46 AC	 4 AMENITY CENTER 5 ACTIVE OPEN SPACE 	i
102 42 14,46 AC		1 mp
42 14,46 AC	6 GREENWAYS	NAME OF TAXABLE PARTY OF TAXABLE PARTY.
14,46 AC	O STORMWATER MANAGEMENT	F
7 22 40	8 ELECTRIC EASEMENT	
	9 WETLANDS	
42.80 AC	O AREAS WITH TRAILS	
9.58 AC 1.47	1 DOG PARK 12 PLAYGROUND	\ A !!</td
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	15 POINTS 4 POINTS 5 POINTS 4 POINTS 15 POINTS 2 POINTS	15 POINTS 4 POINTS 5 POINTS 4 POINTS 15 POINTS 2 POINTS 2 POINTS 2 POINTS 2 POINTS 4 POINTS 55 POINTS 55 POINTS

0 60 120 240 (IN FEET) 1 inch = 120 ft.



X 20 LF = 189,000 SQ FT REQUIRED (4.34 ACRES) A: 602,767 SQ FT (13,84 ACRES) /ERAGE PROVIDED: 656,176 SQ FT (15,06 ACRES)

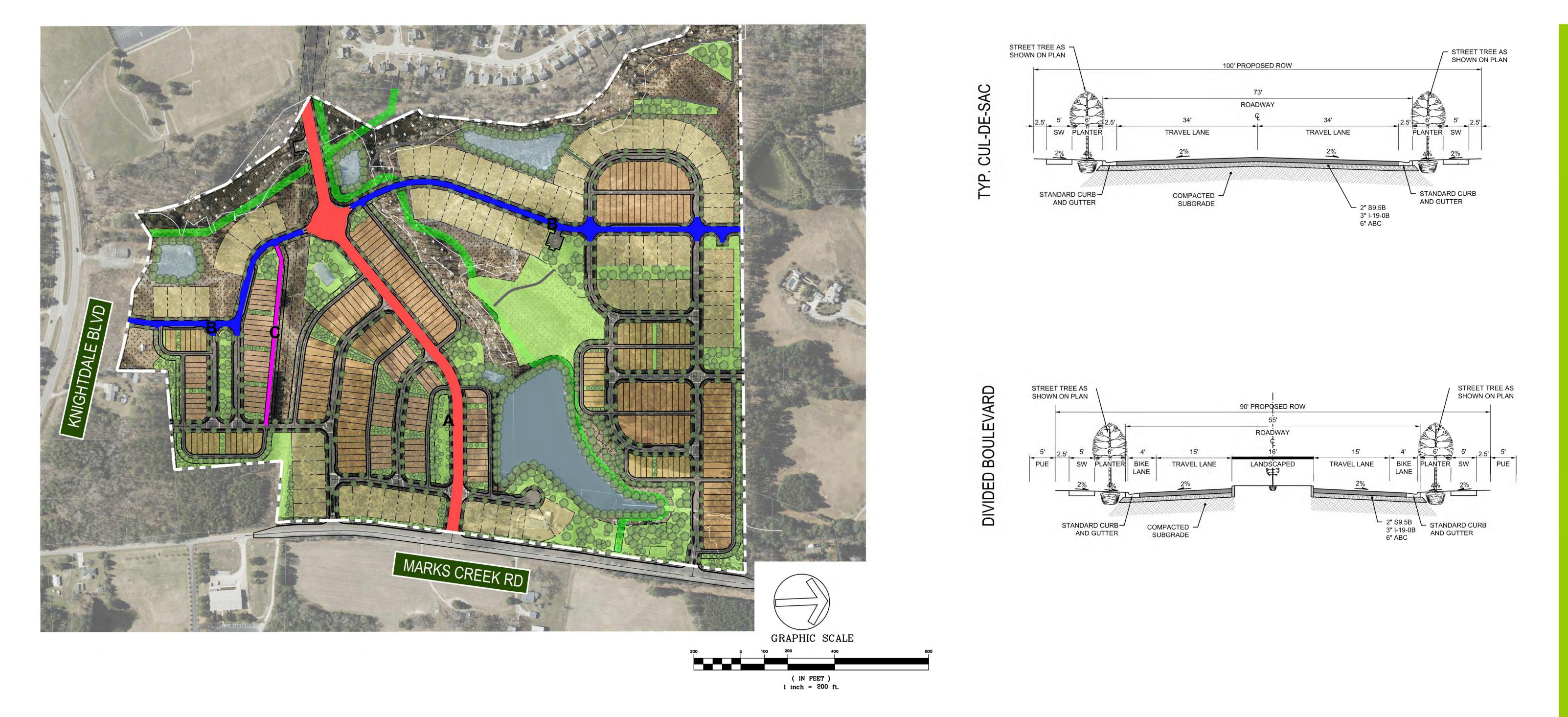
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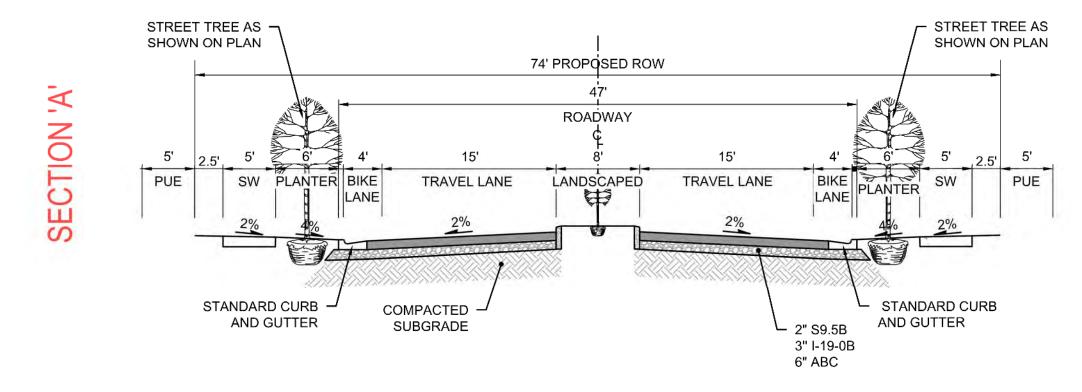
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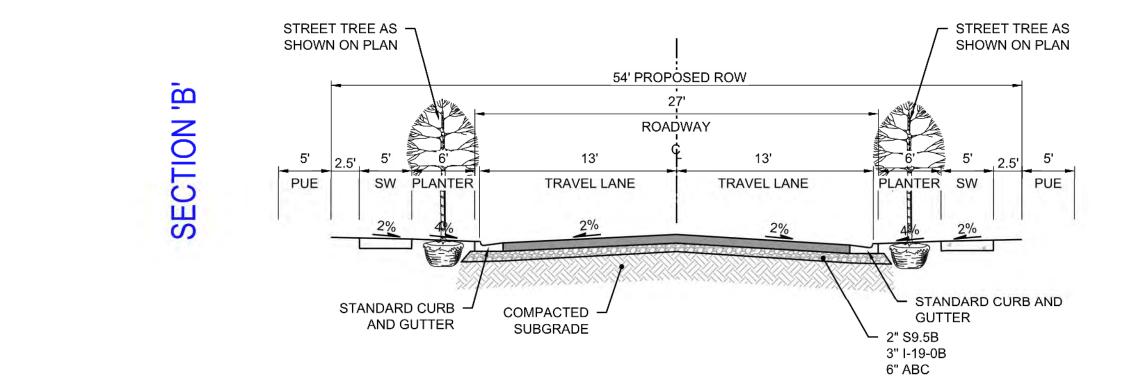
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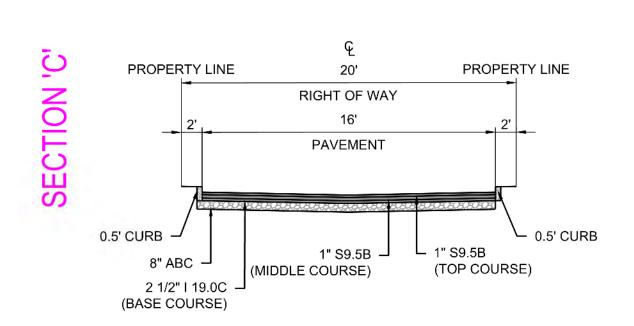
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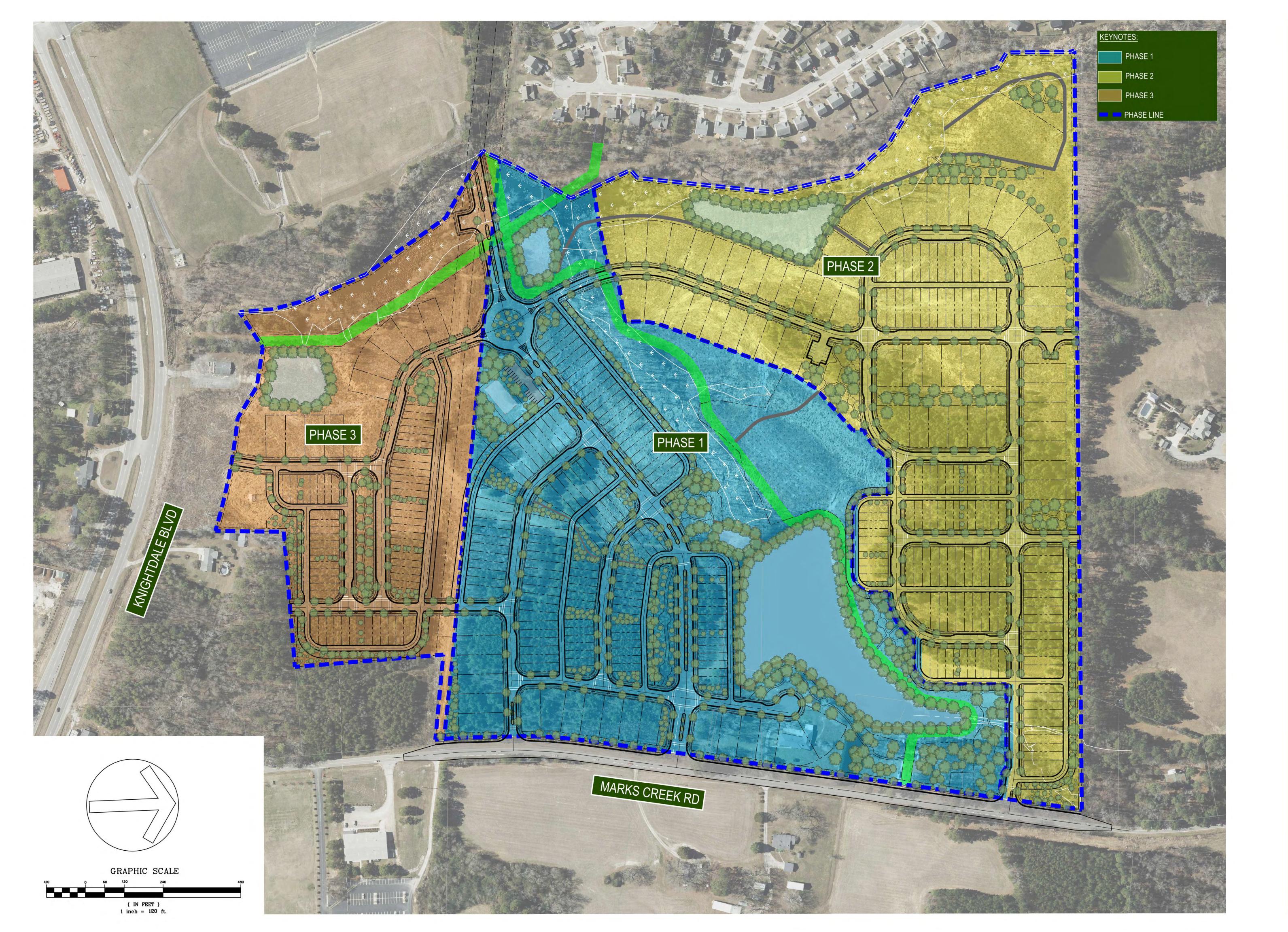












AN **PHASING** A

KEYNOTES:

1. PARK

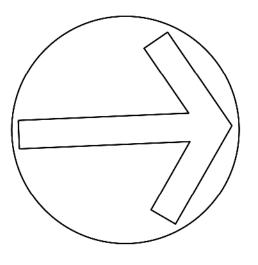
- 2. POCKET PARK
- 3. PARK WITH BENCHES
- 4. AMENITY CENTER
- 5. ACTIVE OPEN SPACE
- 6. GREENWAYS
- 7. AREAS WITH TRAILS

PRESERVED OPEN

MARKS CREEK -

SPACE

- 8. DOG PARK
- 9. PLAYGROUND



KNIGHTDALEBLUD

GRAPHIC SCALE

(IN FEET) 1 inch = 120 ft.



 \mathbf{O} AMENIT NNNI NNNI





AMENITY CENTER





A N E N

POCKET PARK



MEDITATION GARDEN



FOUNTAIN WITH A LIGHT





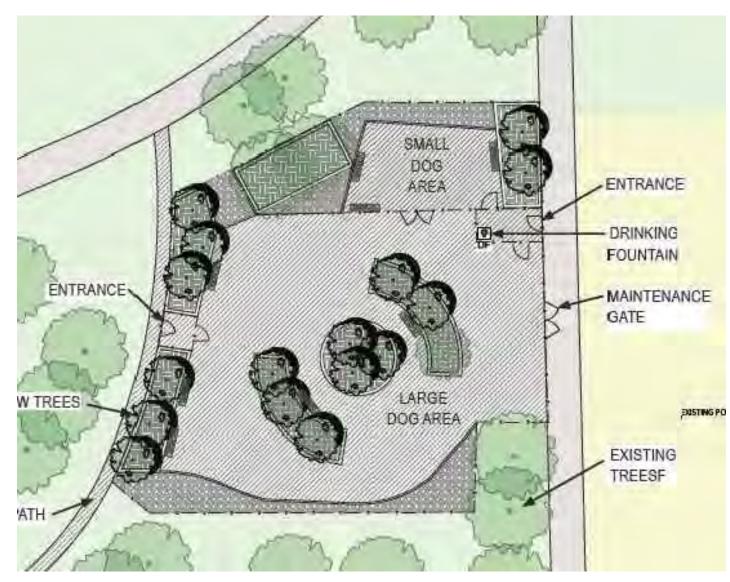
MARKS CREEK RD MONUMENTATION





BOCCE COURT





PARK

WALKING TRAIL

DOG PARK

N N N N N N

TOWNHOMES - 24' x 90' LOTS (2-STORY)





A

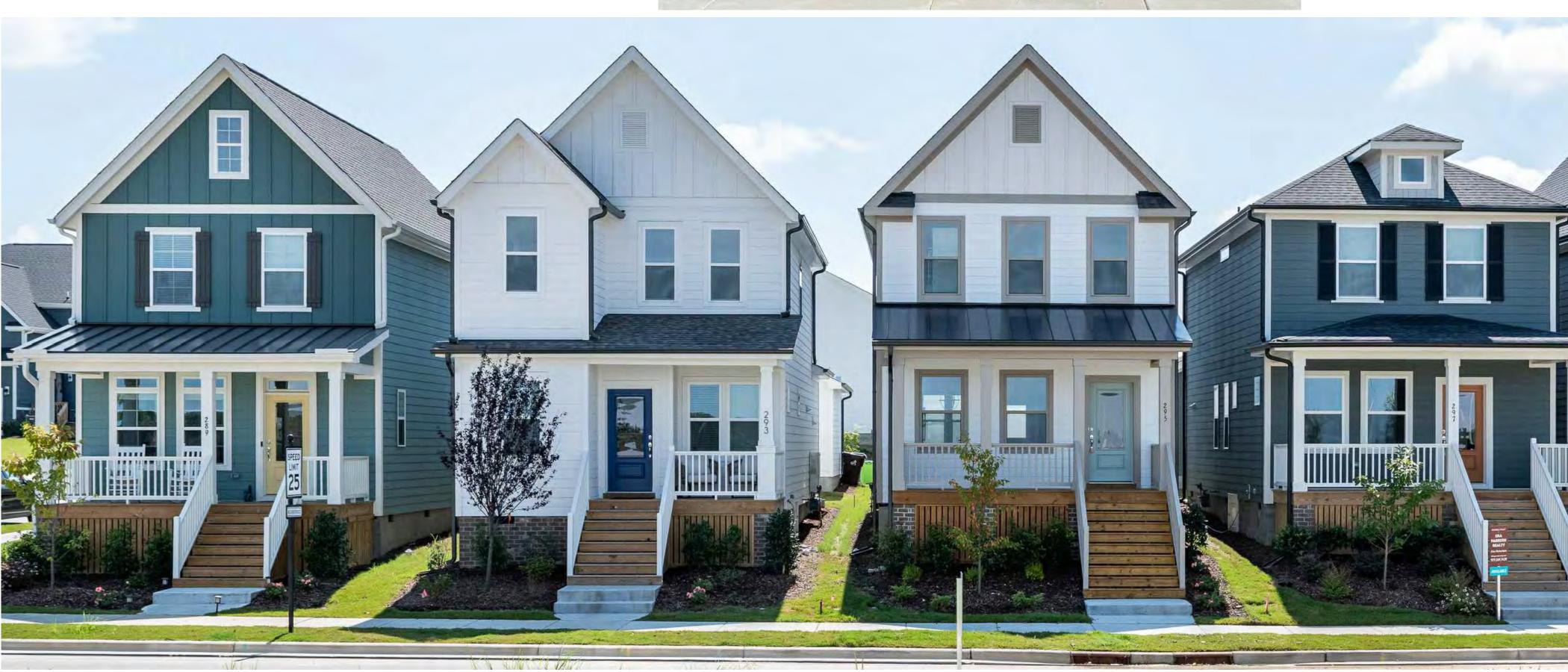
TOWNHOMES - 22' x 90' LOTS (3-STORY)





SESDOUC PRODUC

SINGLE FAMILY HOMES - 26' x 120' LOTS





A

SINGLE FAMILY HOMES - 60' x 130' LOTS



















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- THAN 1,500 SQUARE FEET.
- MATERIALS SHALL BE DIFFERENT BUT COMPLIMENTARY COLORS. VINYL MAY ONLY BE USED OF SOFFITS, FASCIA, AND CORNER BOUNDS.

- THE SIDE OF THE HOME, SUCH AS A FI REPLACE, SIDE PORCH, OR WALL OFFSETS MAY BE USED AS AN ALTERNATE TO WINDOWS.
- 10. THERE SHALL BE A MINIMUM 12 INCH OVERHANG ON EVERY GABLE END FOR EVERY HOME.
- 11.ALL DWELLING UNITS WILL HAVE A 2 CAR GARAGE.
- 12.GARAGES ON ALL NEO TRADITIONAL SINGLE FAMILY DETACHED HOMES AND TOWNHOMES SHALL BE ALLEY FED.
- 13.ALL FRONT LOADED GARAGE DOORS SHALL HAVE GLASS WINDOWS AND HARDWARE.
- WITH BRICK OR STONE. AREAS UNDER PORCHES MAY BE ENCLOSED WITH LATTICE.
- WITH BRICK OR STONE. AREAS UNDER PORCHES MAY BE ENCLOSED WITH LATTICE.
- 16.ANY SINGLE FAMILY HOMES WITH A CRAWL SPACE SHALL BE WRAPPED IN BRICK, OR STONE ON ALL SIDES.
- EXCEED 48% OF THE OVERALL WIDTH OF THE HOUSE, GARAGE DOORS GREATER THAN 12' IN WIDTH SHALL BE SPLIT BAY.
- 18.ALL HOMES SHALL HAVE FRONT DOOR GLASS INSERTS.
- **INSERTS AND HARDWARE.**

1. TOWNHOMES SHALL BE TWO-STORY HOMES WITH A MINIMUM WIDTH OF 22' WIDE AND HAVE A MINIMUM HEATED AREA OF 1,500 SQUARE FEET, 2 CAR GARAGES WILL BE PROVIDED. 2. NEO TRADITIONAL SINGLE FAMILY DETACHED HOMES SHALL BE REAR LOADED TWO-STORY HOMES BUILT ON LOTS LESS THAN 60 FEET WIDE WITH A MINIMUM HEATED AREA OF 1,600 SQUARE FEET. 3. SINGLE FAMILY RANCH DETACHED HOMES SHALL BE BUILT ON LOTS AT LEAST 60 FEET WIDE WITH A MINIMUM HEATED AREA OF 1,480 SQUARE FEET, AND NO MORE THAN 25% OF THE RANCH HOMES MAY BE LESS

4. TRADITIONAL SINGLE FAMILY DETACHED HOMES SHALL BE TWO-STORY HOMES BUILT ON LOTS AT LEAST 60 FEET WIDE WITH A MINIMUM HEATED AREA OF 2,100 SQUARE FEET. 5. ALL HOMES WILL EITHER CONSIST OF A SINGLE MATERIAL OF BRICK OR STONE OR WILL HAVE A COMBINATION OF 2 OR MORE OF THE FOLLOWING MATERIALS ON THE FRONT FAÇADE (NOT INCLUDING FOUNDATIONS): STONE, BRICK, LAP SIDING, F BER CEMENT SIDING, SHAKES, OR BOARD AND BATTEN SIDING, WITH SIDE AND REAR FACADES OF FIBER CEMENT SIDING. WHEN 2 MATERIALS ARE USED, THE

6. ALL SINGLE FAMILY DETACHED HOMES WILL HAVE FRONT PORCHES WITH A MINIMUM DEPTH OF 5 FEET. TOWNHOMES WILL HAVE RECESSED FRONT PORCHES WITH A MINIMUM DEPTH OF 3 FEET. 7. ALL TRADITIONAL SINGLE FAMILY DETACHED HOMES WILL HAVE A REAR PATIO OR DECKS A MINIMUM OF 10' X 10'. ALL SINGLE FAMILY RANCH DETACHED HOMES WILL HAVE A MINIMUM 6' X 10' COVERED PATIO. 8. MAIN ROOF PITCHES (EXCLUDING PORCHES) FRONTING THE STREET WILL BE AT LEAST 7:12, WITH THE EXCEPTION OF RANCH HOMES IN WHICH 6:12 SHALL BE ALLOWED. 9. FOR EVERY 30 FEET (OR FRACTION) OF CONTINUOUS SIDE ELEVATION (CALCULATED ON A PER FLOOR BASIS), THERE SHALL BE ONE WINDOW OR DOOR ADDED TO THE SIDE ELEVATIONS. ANY SIDING BREAK ON

14.ALL SINGLE FAMILY DETACHED HOMES SHALL BE RAISED FROM THE FINISHED GRADE A MINIMUM OF 18" AND SHALL HAVE STEM WALL OR RAISED SLAB FOUNDATIONS THAT SHALL BE COVERED ON ALL SIDES

15.ALL SINGLE FAMILY ATTACHED HOMES SHALL BE RAISED FROM THE FINISHED GRADE A MINIMUM OF 18" AND SHALL HAVE STEM WALL OR RAISED SLAB FOUNDATIONS THAT SHALL BE COVERED ON ALL SIDES

17.FOR FRONT LOAD SINGLE FAMILY DETACHED HOMES, NO MORE THAN 10% CAN HAVE GARAGE DOORS THAT EXCEED 45% OF THE OVERALL WIDTH OF THE HOUSE, AND IN NO CASES CAN THE GARAGE DOOR

19.GARAGES FOR LOTS THAT ARE AT LEAST 60 FEET WIDE WILL NOT PROTRUDE MORE THAN SIX (6) FEET FROM THE FRONT PORCH OR STOOP AND ALL GARAGE DOORS SHALL BE CARRIAGE STYLE WITH WINDOW