

# RYAN'S CROSSING

Chatham County, North Carolina

## CONSTRUCTION DRAWINGS

MANN'S CHAPEL ROAD & TOBACCO ROAD

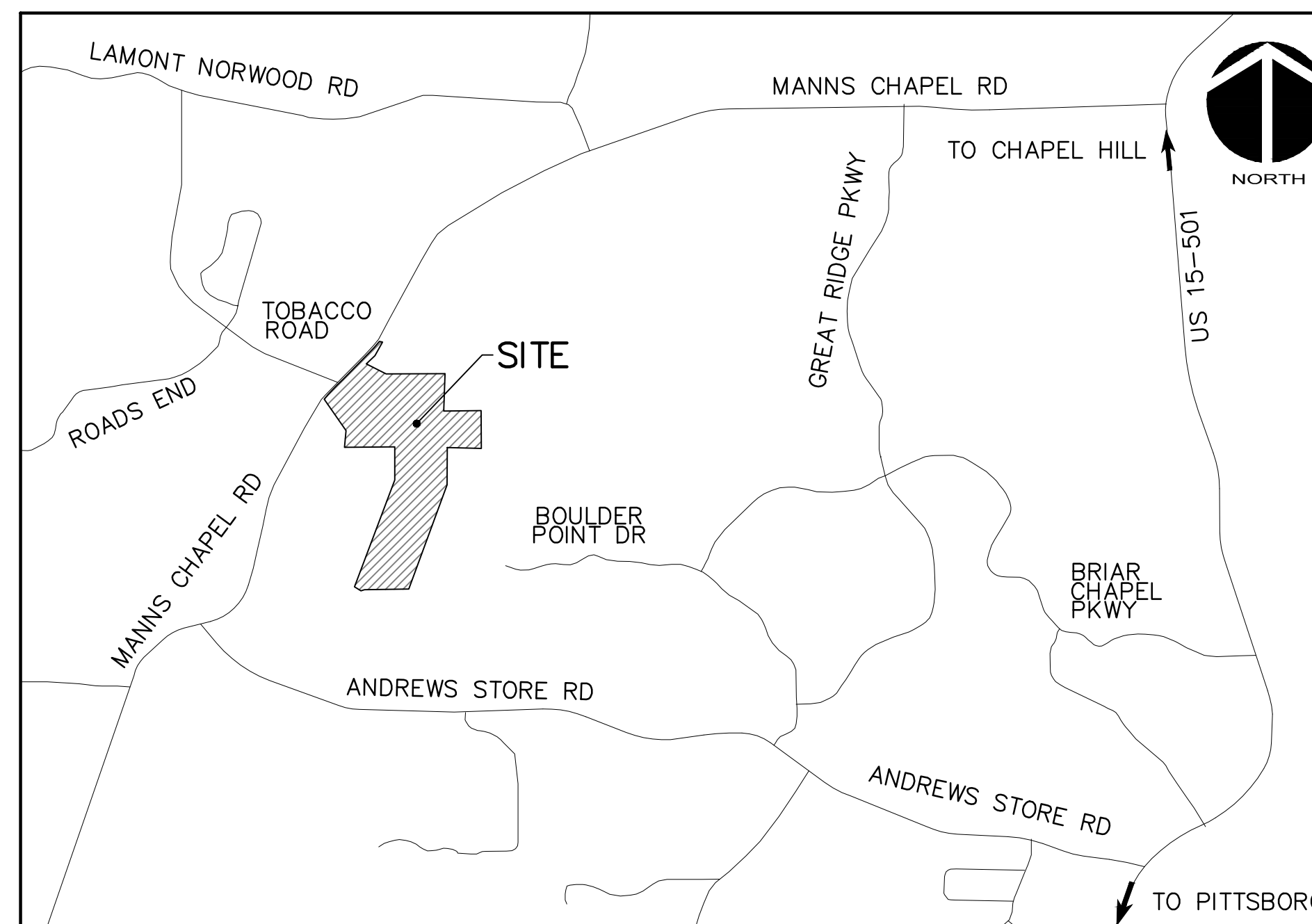
DATE: NOVEMBER 28, 2018

### SHEET INDEX

|       |  |
|-------|--|
| C0.1  | COVER SHEET  |
| C0.2  | EXISTING CONDITIONS/DEMOLITION PLAN                                    |
| C1.0  | OVERALL SITE PLAN  |
| C1.1  | SITE PLAN  |
| C1.2  | SITE PLAN  |
| C1.3  | SITE PLAN  |
| C2.0  | OVERALL UTILITY PLAN   |
| C2.1  | UTILITY PLAN   |
| C2.2  | UTILITY PLAN   |
| C2.3  | UTILITY PLAN   |
| C3.0  | OVERALL EROSION CONTROL PLAN-STAGE 1                                   |
| C3.1  | EROSION CONTROL PLAN-STAGE 1 & STAGE 2                                 |
| C3.2  | EROSION CONTROL PLAN-STAGE 1 & STAGE 2                                 |
| C3.3  | EROSION CONTROL PLAN-STAGE 1 & STAGE 2                                 |
| C3.4  | OVERALL GRADING, DRAINAGE & EROSION CONTROL PLAN-STAGE 3               |
| C3.5  | GRADING, DRAINAGE & EROSION CONTROL PLAN-STAGE 3                       |
| C3.6  | GRADING, DRAINAGE & EROSION CONTROL PLAN-STAGE 3                       |
| C3.7  | GRADING, DRAINAGE & EROSION CONTROL PLAN-STAGE 3                       |
| C4.1  | PLAN & PROFILE AMELIA LANE (10+00 - 23+25)                             |
| C4.2  | PLAN & PROFILE AMELIA LANE (23+25 - 31+35), DELIA LANE (10+00 - 14+56) |
| C4.3  | PLAN & PROFILE EVANDER WAY AND LILA DRIVE (10+00 - 22+50)              |
| C4.4  | PLAN & PROFILE LILA DRIVE (22+50 - 35+00)                              |
| C4.5  | PLAN & PROFILE LILA DRIVE (35+00 - 42+12), ENTRANCE CULVERT            |
| C4.6  | PLAN & PROFILE STORM OUTFALLS FOR BMP #1, BMP #2, BMP #4               |
| C4.7  | PLAN & PROFILE STORM OUTFALLS FOR BMP #3, BMP #5                       |
| C4.8  | PLAN & PROFILE STREAM CULVERT #1, #2, #3                               |
| C5.3  | MONUMENT AND PLANTING PLAN   |
| D1.1  | EROSION AND SEDIMENTATION CONTROL DETAILS                              |
| D1.2  | EROSION AND SEDIMENTATION CONTROL DETAILS                              |
| D1.3  | EROSION AND SEDIMENTATION CONTROL DETAILS                              |
| D2.1  | NCDOT ROADWAY DETAILS  |
| D2.2  | NCDOT DRAINAGE DETAILS   |
| D3.1  | UTILITY DETAILS  |
| D4.1  | BMP #1 PLAN & DETAILS  |
| D4.2  | BMP #1 PLAN & DETAILS  |
| D4.3  | BMP #1 PLAN & DETAILS  |
| D4.4  | BMP #2 PLAN & DETAILS  |
| D4.5  | BMP #2 PLAN & DETAILS  |
| D4.6  | BMP #2 PLAN & DETAILS  |
| D4.7  | BMP #3 PLAN & DETAILS  |
| D4.8  | BMP #3 PLAN & DETAILS  |
| D4.9  | BMP #3 PLAN & DETAILS  |
| D4.10 | BMP #4 PLAN AND DETAILS  |
| D4.11 | BMP #4 PLAN AND DETAILS  |
| D4.12 | BMP #4 PLAN AND DETAILS  |
| D4.13 | BMP #5 PLAN AND DETAILS  |
| D4.14 | PIPE SCHEDULES   |

### COUNTY AND AGENCY CONTACTS

- A. Chatham County  
Planning Department  
Dunlap Building  
80 East Street  
Pittsboro, NC 27312  
(919) 542-8204 phone  
Contact: Jason Sullivan  
Email: jason.sullivan@chathamnc.org
- B. Chatham County  
Environmental Services  
Dunlap Building  
80 East Street  
Pittsboro, NC 27312  
(919) 542-8268 phone  
Contact: Morgan DeWit, PE  
Email: morgan.dewit@chathamnc.org
- C. Chatham County  
Soil Erosion and Sedimentation Control  
Dunlap Building  
80 East Street  
Pittsboro, NC 27312  
(919) 545-8339 phone  
Contact: Rachael Thorn  
Email: rachael.thorn@chathamnc.org
- D. Chatham County  
Public Works  
964 East Street, 2nd Floor, Suite 205  
Pittsboro, NC 27312  
(919) 542-8270 phone  
Contact: Larry Bridges  
Email: larry.bridges@chathamnc.org
- E. NCDOT  
Division 8, District 1  
300 DOT Drive  
P.O. Box 1164  
Asheboro, NC 27204  
(336) 318-4000 phone  
Contact: Matthew Kitchen, PE  
Email: mwkitchen@ncdot.gov
- F. NCDENR  
Division of Environmental Health  
Public Water Supply Section  
1634 Mail Service Center  
Raleigh, NC 27699-1634  
(919) 707-9064 phone  
Contact: Shashi Bhatta  
Email: shashi.bhatta@ncdenr.gov



VICINITY MAP

NTS

### PROJECT DATA

NAME OF PROJECT:

RYAN'S CROSSING SUBDIVISION  
CHATHAM COUNTY, NORTH CAROLINA

OWNER:

SEALI ENTERPRISES  
2611 CHURCHILL ROAD  
RALEIGH, NC 27608  
PHONE: 919.698.3175  
CONTACT: ALEX BARROSO  
EMAIL: alex@sealidevelopment.com

PREPARED BY:

McKIM & CREED  
1730 VARSITY DRIVE, SUITE 500  
RALEIGH, NORTH CAROLINA 27606  
PHONE: 919.233.091  
FAX: 919.233.8031  
CONTACT: GARETH AVANT, PE  
EMAIL: gavant@mckimcreed.com

PROJECT AREA: 114.85 AC

These improvements shall be constructed in accordance with the following plans and Standard Specifications of NCDOT and Chatham County.



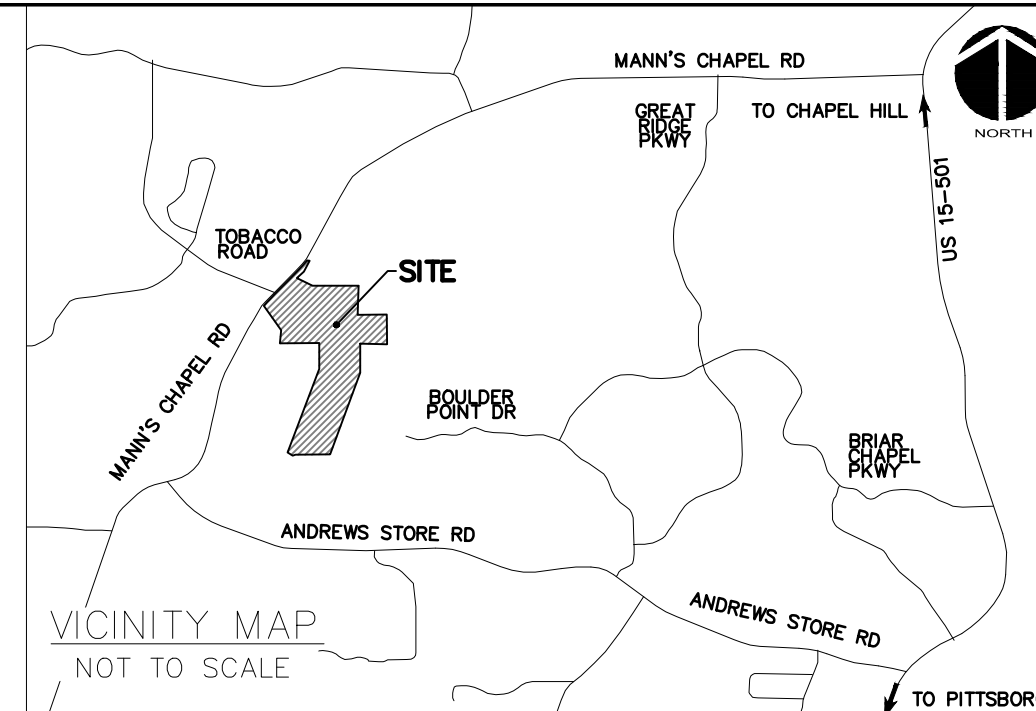
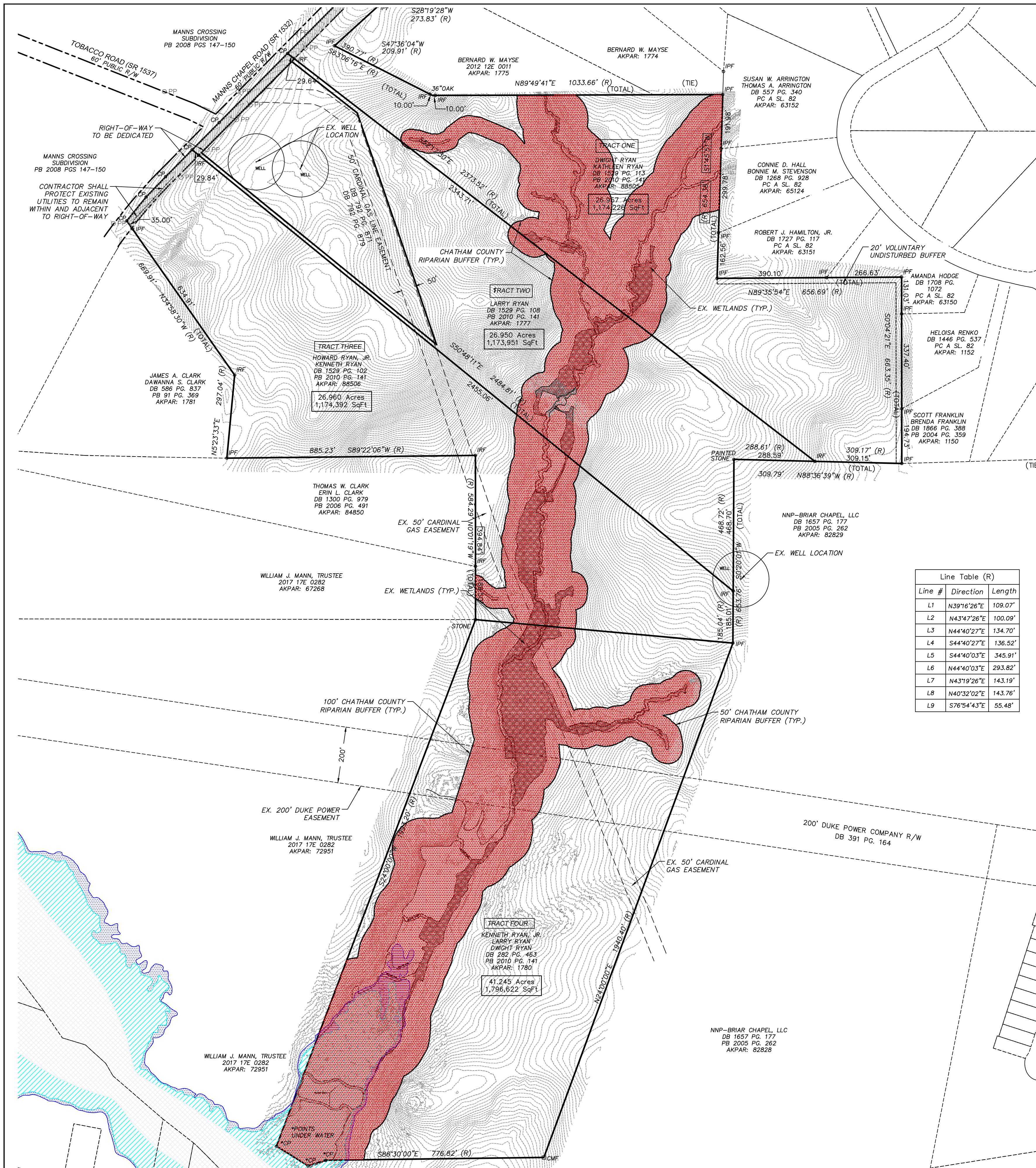
**MCKIM & CREED**  
ENGINEERS SURVEYORS PLANNERS

1730 VARSITY DRIVE, SUITE 500  
RALEIGH, NORTH CAROLINA 27606  
T 919.233.8091 F 919.233.8031

FIRM LICENSE #: F-1222  
mckimcreed.com



**FINAL DRAWINGS**  
FOR CONSTRUCTION



**GENERAL NOTES:**

1. THIS PROPERTY IS ZONED R-1.
2. ALL DISTANCES SHOWN ARE HORIZONTAL GROUND MEASUREMENTS.
3. NO NC GRID MONUMENT FOUND WITHIN 2000' OF SURVEYED TRACT.
4. ALL BEARINGS ARE BASED ON THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM (NAD 1983) (07).
5. EXISTING TOPOGRAPHIC DATA IS BASED ON AERIAL MAPPING PERFORMED BY MCKIM & CREED MAPPING SERVICES IN APRIL 2018.
6. PROJECT IS LOCATED IN THE CAPE FEAR RIVER BASIN.
7. STREAM AND WETLAND LOCATIONS ARE BASED ON DELINEATIONS PROVIDED BY SOIL & ENVIRONMENTAL CONSULTANTS, PA - CONTACT BOB ZARZECKI AT 919-256-4517.
8. A PORTION OF THIS PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA "AE" AS SHOWN ON FEMA FIRM MAP #3710975500K AND #3710976500K DATED NOVEMBER 17, 2017.

**DEMOLITION NOTES:**

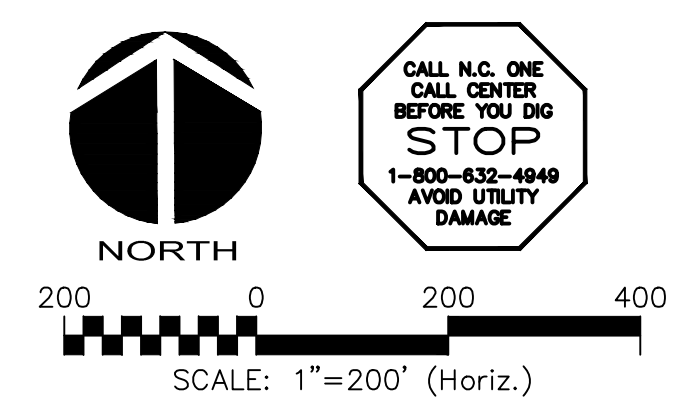
1. NO EARTH-DISTURBING ACTIVITIES SHALL COMMENCE UNTIL ALL PERIMETER EROSION CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE EROSION CONTROL SEQUENCE SHOWN IN THESE PLANS.
2. NO EARTH-DISTURBING ACTIVITY OR OTHER WORK SHALL TAKE PLACE WITHIN WETLAND AREAS NOTED ON SURVEY. CONTRACTOR SHALL FIELD VERIFY WETLAND LIMITS FLAGGING IS IN PLACE AND SHALL NOT ENTER WETLAND AREAS. IF WETLAND FLAGGING IS MISSING OR OTHERWISE DAMAGED, IT IS CONTRACTOR'S RESPONSIBILITY TO NOTE WETLAND LIMITS AND PREVENT DISTURBANCE OR OTHER ACTIVITY WITHIN WETLANDS.
3. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS, AT HIS EXPENSE, DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE PUBLIC DURING CONSTRUCTION, WHICH INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION FENCING, BARRICADES, SIGNAGE, ETC.
6. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
7. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
8. CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ALL UTILITIES AND APPURTENANCES TO REMAIN.

**LEGEND:**

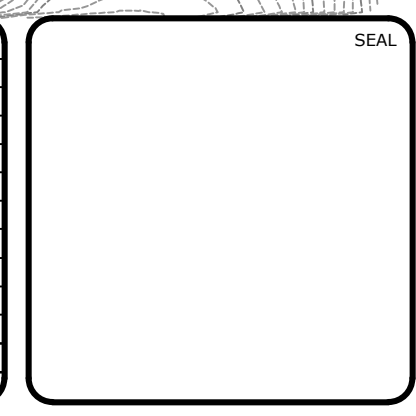
- PROPERTY BOUNDARY LINE
- - - RIPARIAN BUFFER LINE
- - - -480- - - EX. CONTOUR
- - - - - EX. POWER LINE EASEMENT
- - - - - EX. OVERHEAD POWER LINE
- - - - - EX. CARDINAL GAS EASEMENT
- - - - - EX. WATER MAIN
- - - - - EX. FLOODWAY
- - - - - EX. 100-YEAR FLOODPLAIN
- - - - - EX. 500-YEAR FLOODPLAIN
- - - - - CHATHAM COUNTY RIPARIAN BUFFER
- - - - - EX. WETLANDS

**\*\*\* NOTICE TO CONTRACTOR \*\*\***

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL AND VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR.



| REV. NO. | DESCRIPTIONS  | DATE       |
|----------|---|------------|
| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
| 3        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.27 |
| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
| 1        | REVISIONS PER COUNTY EROSION CONTROL AND STORMWATER, NCDOT P155 | 2018.10.02 |
| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



**MCKIM & CREED**  
ENGINEERS SURVEYORS PLANNERS

1730 VARSITY DRIVE, SUITE 500 FIRM LICENSE #: F-1222  
RALEIGH, NORTH CAROLINA 27606 mckimcreed.com  
T 919.233.8091 F 919.233.8031

**RYAN'S CROSSING**  
Chatham County, North Carolina

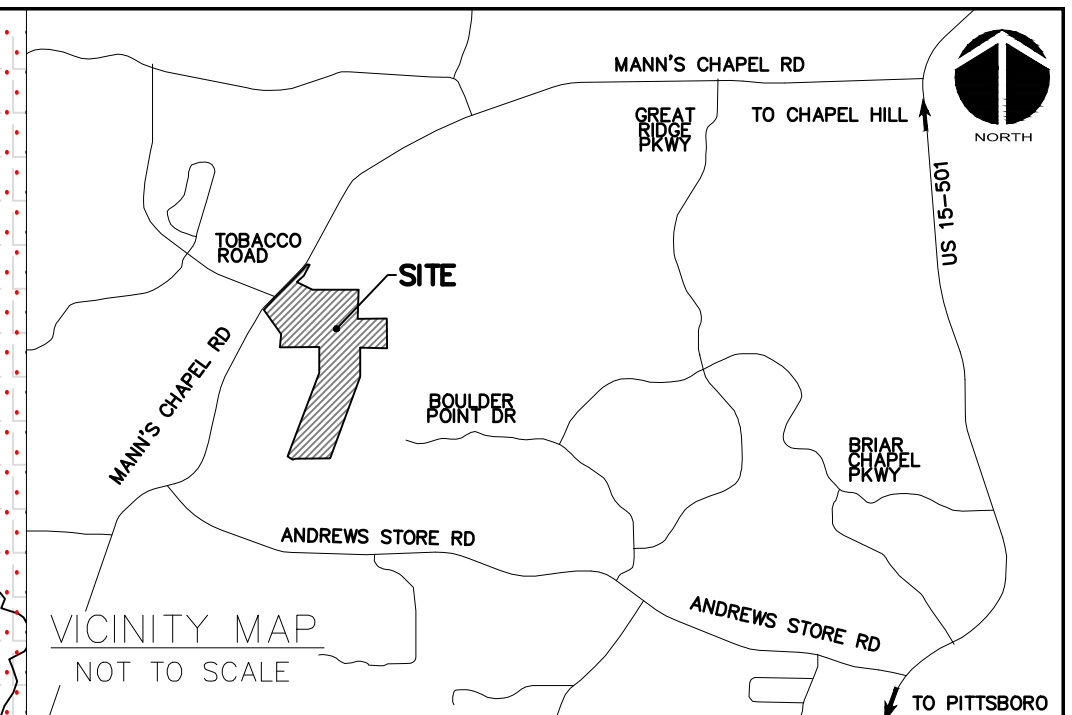
**CONSTRUCTION PLAT**  
EXISTING CONDITIONS PLAN

DATE: AUGUST 17, 2018  
MCE PROJ. #: 07291-0002  
DRAWN: BSS  
DESIGNED: BSS  
CHECKED: GCA  
PROJ. MGR.: CHS

SCALE: HORIZONTAL: 1" = 200'  
VERTICAL: N/A

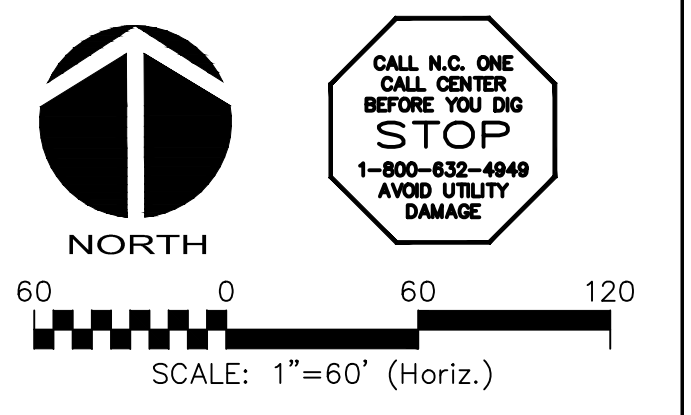
M&C FILE NUMBER: C0.2  
DRAWING NUMBER: C0.2

STATUS: PRELIMINARY FOR CONSTRUCTION  
REVISION: 4



| LOT AREA TABLE |           |           |
|----------------|-----------|-----------|
| LOT #          | AREA (SF) | AREA (AC) |
| 1              | 24467.31  | 0.56      |
| 2              | 29729.61  | 0.68      |
| 3              | 29066.15  | 0.67      |
| 4              | 37640.65  | 0.86      |
| 5              | 39185.13  | 0.90      |
| 6              | 32679.04  | 0.75      |
| 7              | 29456.06  | 0.68      |
| 8              | 26262.11  | 0.60      |
| 9              | 24105.17  | 0.55      |
| 10             | 21792.90  | 0.50      |
| 52             | 29974.82  | 0.69      |
| 53             | 39308.83  | 0.90      |
| 54             | 39250.29  | 0.90      |
| 55             | 54461.22  | 1.25      |
| 56             | 27876.84  | 0.64      |
| 57             | 32681.92  | 0.75      |
| 58             | 27607.68  | 0.63      |
| 59             | 28024.07  | 0.64      |
| 60             | 28054.97  | 0.64      |
| 61             | 33175.52  | 0.76      |

MATCHLINE - SEE SHEET C.1.2



**NOTE TO CONTRACTOR:**  
DO NOT INSTALL GUARDRAIL IN AREAS THAT DO NOT MEET WARRANTS

NC DOT STANDARD GUARDRAIL REFERENCE THE LATEST NC DOT STANDARD DRAWINGS SECTION 862

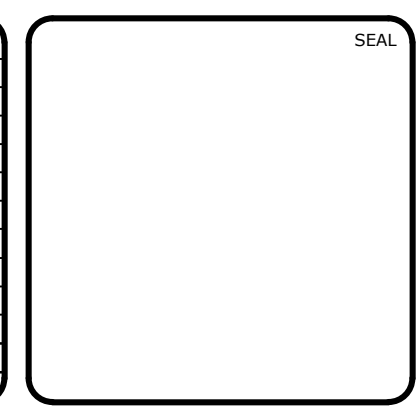


JAMES A. CLARK  
DAWANNA S. CLARK  
DB 588 PG. 837  
PB 91 PG. 369  
AKPAR: 1781

**LEGEND:**

|  |                                   |
|--|-----------------------------------|
|  | R/W LINE                          |
|  | OVERALL PROPERTY BOUNDARY         |
|  | EXISTING R/W LINE                 |
|  | PUBLIC UTILITY EASEMENT LINE      |
|  | PRIVATE UTILITY EASEMENT LINE     |
|  | PERMANENT DRAINAGE EASEMENT       |
|  | PRIVATE DRAINAGE EASEMENT         |
|  | TEMPORARY ACCESS EASEMENT         |
|  | RIPARIAN BUFFER LINE              |
|  | EX. WETLANDS                      |
|  | BMP MAINTENANCE & ACCESS EASEMENT |
|  | ROADWAY CENTERLINE                |
|  | TRAIL                             |
|  | SIGN                              |
|  | 10'x70' SIGHT TRIANGLE            |
|  | NEW ROADWAY PAVEMENT              |
|  | PROPOSED CONSERVATION AREA        |
|  | STREAM IMPACT                     |

| REV. NO. | DESCRIPTIONS  | DATE       |
|----------|---|------------|
| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
| 3        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.27 |
| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
| 1        | REVISIONS PER COUNTY EROSION CONTROL AND STORMWATER, NCDOT PHSS | 2018.10.02 |
| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



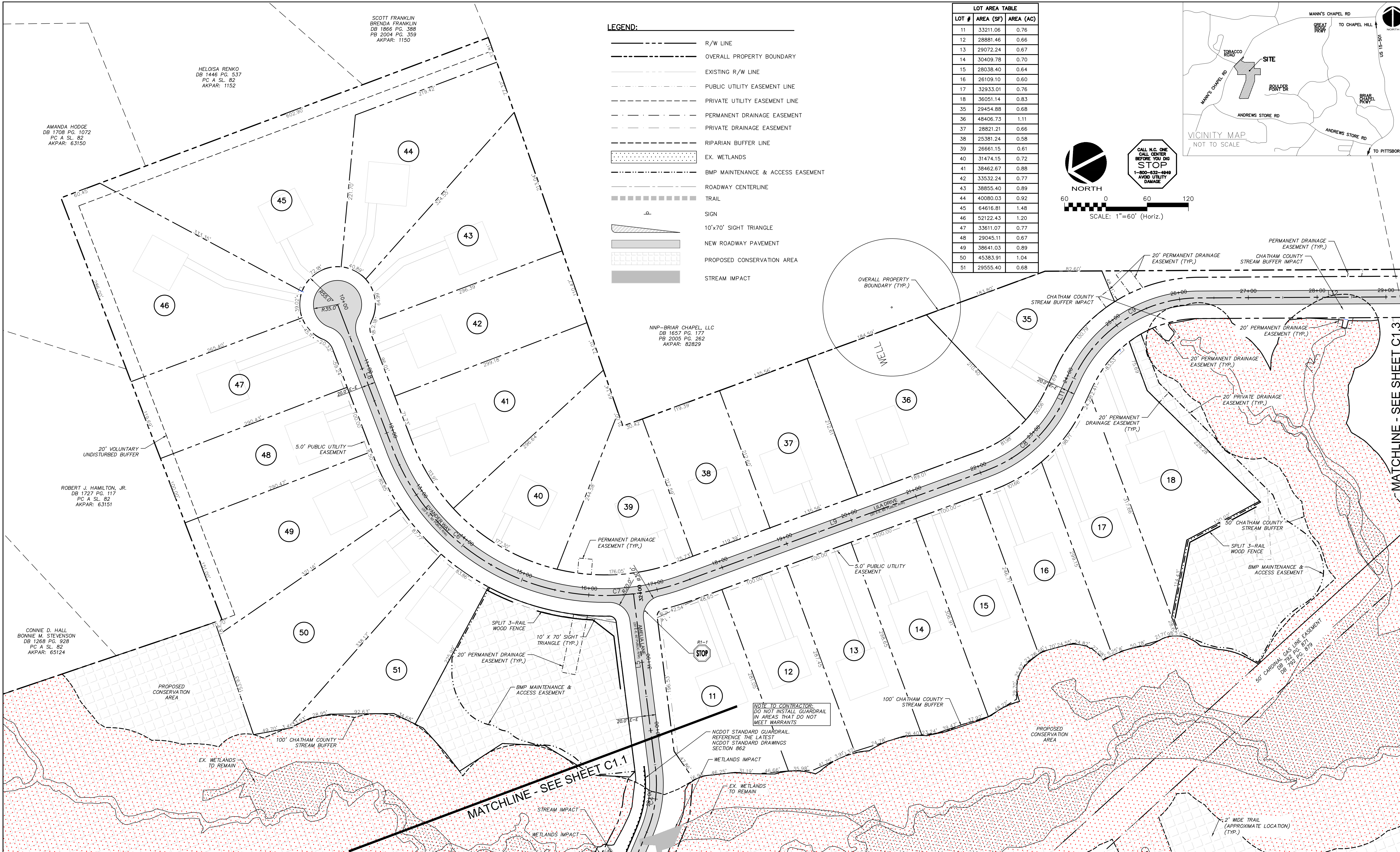
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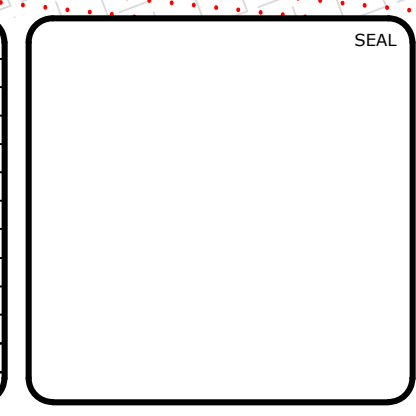
**RYAN'S CROSSING**  
Chatham County, North Carolina

**CONSTRUCTION PLAT**  
SITE PLAN

|                                      |                      |                 |
|--------------------------------------|----------------------|-----------------|
| DATE: AUGUST 17, 2018                | SCALE: C1.0          | HMC FILE NUMBER |
| MCE PROJ. # 07291-0002               | HORIZONTAL: 1" = 60' | DRAWING NUMBER  |
| DRAWN: BSS                           | VERTICAL: N/A        | C1.1            |
| DESIGNED: BSS                        |                      |                 |
| CHECKED: GCA                         |                      |                 |
| PROJ. MGR.: CHS                      |                      |                 |
| STATUS: PRELIMINARY FOR CONSTRUCTION | REVISION: 4          |                 |



| REV. NO. | DESCRIPTIONS  | DATE       |
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| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
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| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
| 1        | REVISIONS PER COUNTY EROSION CONTROL AND STORMWATER, NCDOT PHWS | 2018.10.02 |
| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



**MCKIM & CREED**  
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Chatham County, North Carolina

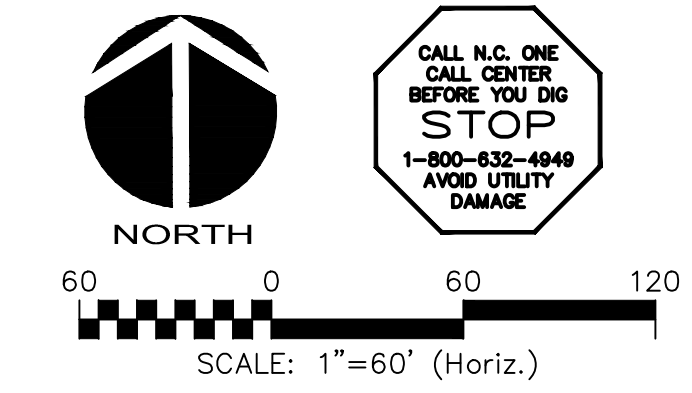
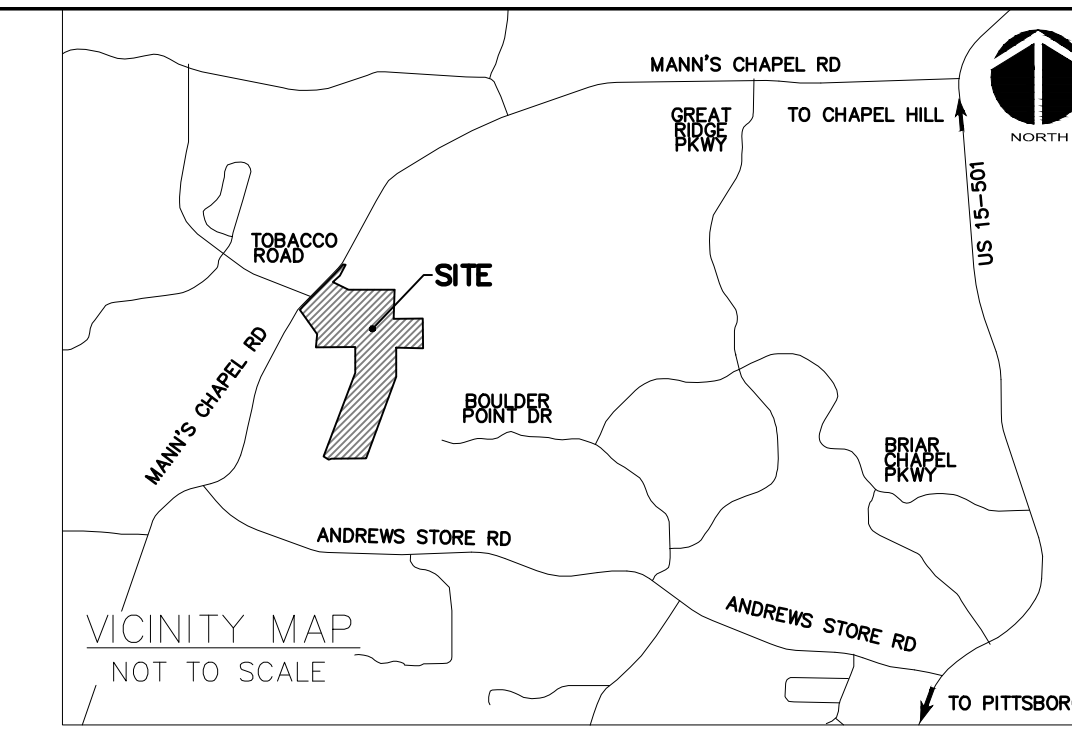
**CONSTRUCTION PLAT**  
SITE PLAN

|                                      |                           |                       |
|--------------------------------------|---------------------------|-----------------------|
| DATE: AUGUST 17, 2018                | SCALE: HORIZONTAL: 1"=60' | H&C FILE NUMBER: C1.0 |
| MCE PROJ. # 07291-0002               | VERTICAL: N/A             | DRAWING NUMBER: C1.2  |
| DRAWN: BSS                           |                           |                       |
| DESIGNED: BSS                        |                           |                       |
| CHECKED: GCA                         |                           |                       |
| PROJ. MGR.: CHS                      |                           |                       |
| STATUS: PRELIMINARY FOR CONSTRUCTION | REVISION: 4               |                       |

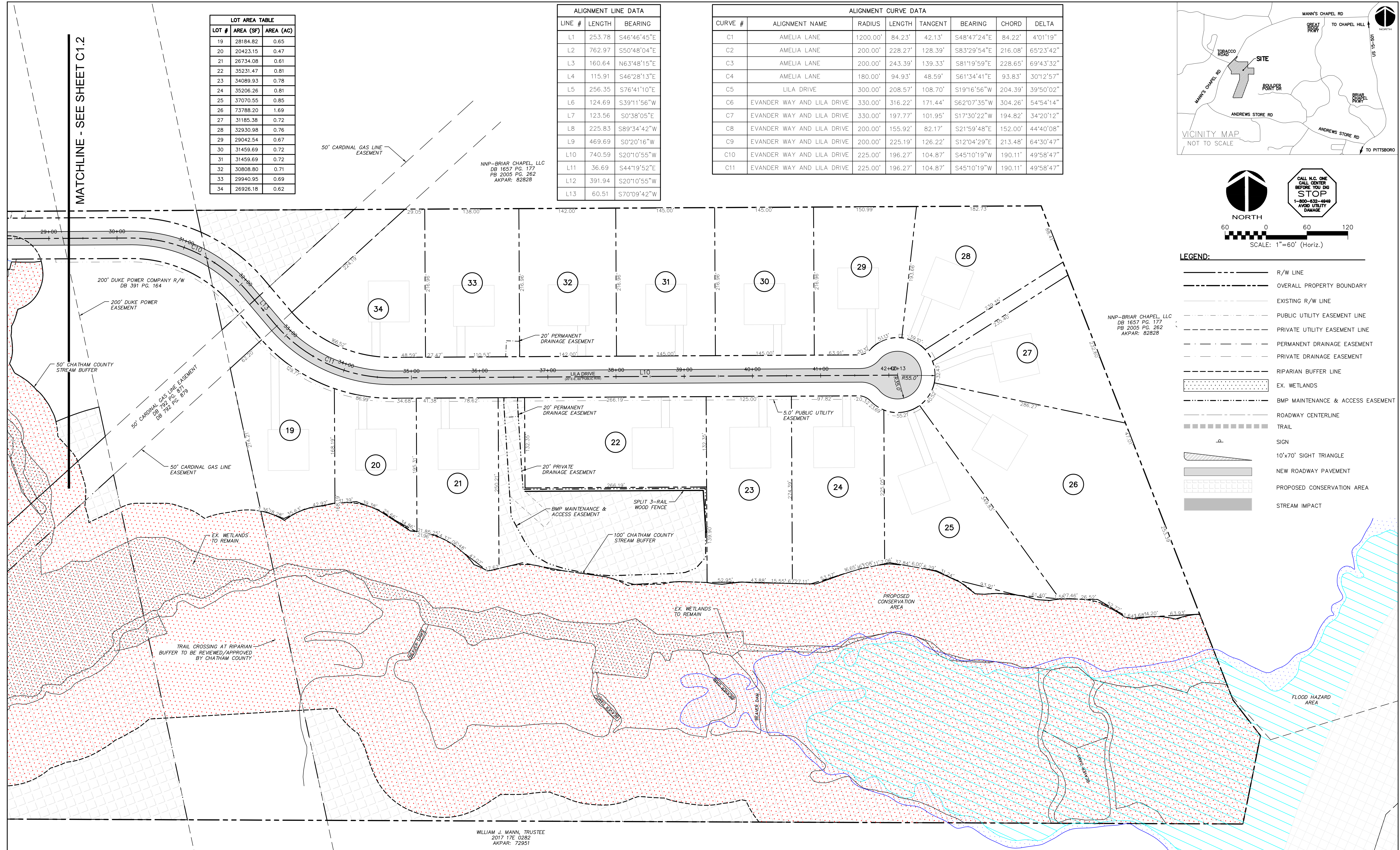
| LOT AREA TABLE |           |           |
|----------------|-----------|-----------|
| LOT #          | AREA (SF) | AREA (AC) |
| 19             | 28184.82  | 0.65      |
| 20             | 20423.15  | 0.47      |
| 21             | 26734.08  | 0.61      |
| 22             | 35231.47  | 0.81      |
| 23             | 34089.93  | 0.78      |
| 24             | 35206.26  | 0.81      |
| 25             | 37070.55  | 0.85      |
| 26             | 73788.20  | 1.69      |
| 27             | 31185.38  | 0.72      |
| 28             | 32930.98  | 0.76      |
| 29             | 29042.54  | 0.67      |
| 30             | 31459.69  | 0.72      |
| 31             | 31459.69  | 0.72      |
| 32             | 30808.80  | 0.71      |
| 33             | 29940.95  | 0.69      |
| 34             | 26926.18  | 0.62      |

| ALIGNMENT LINE DATA |        |             |
|---------------------|--------|-------------|
| LINE #              | LENGTH | BEARING     |
| L1                  | 253.78 | S46°46'45"E |
| L2                  | 762.97 | S50°48'04"E |
| L3                  | 160.64 | N63°48'15"E |
| L4                  | 115.91 | S46°28'13"E |
| L5                  | 256.35 | S76°41'10"E |
| L6                  | 124.69 | S39°11'56"W |
| L7                  | 123.56 | S0°38'05"E  |
| L8                  | 225.83 | S89°34'42"W |
| L9                  | 469.69 | S0°20'16"W  |
| L10                 | 740.59 | S20°10'55"W |
| L11                 | 36.69  | S44°19'52"E |
| L12                 | 391.94 | S20°10'55"W |
| L13                 | 60.51  | S70°09'42"W |

| ALIGNMENT CURVE DATA |                            |          |         |         |             |         |           |
|----------------------|----------------------------|----------|---------|---------|-------------|---------|-----------|
| CURVE #              | ALIGNMENT NAME             | RADIUS   | LENGTH  | TANGENT | BEARING     | CHORD   | DELTA     |
| C1                   | AMELIA LANE                | 1200.00' | 84.23'  | 42.13'  | S48°47'24"E | 84.22'  | 4°01'19"  |
| C2                   | AMELIA LANE                | 200.00'  | 228.27' | 128.39' | S83°29'54"E | 216.08' | 65°23'42" |
| C3                   | AMELIA LANE                | 200.00'  | 243.39' | 139.33' | S81°19'59"E | 228.65' | 69°43'32" |
| C4                   | AMELIA LANE                | 180.00'  | 94.93'  | 48.59'  | S61°34'41"E | 93.83'  | 30°12'57" |
| C5                   | LILA DRIVE                 | 300.00'  | 208.57' | 108.70' | S19°16'56"W | 204.39' | 39°50'02" |
| C6                   | EVANDER WAY AND LILA DRIVE | 330.00'  | 316.22' | 171.44' | S62°07'35"W | 304.26' | 54°54'14" |
| C7                   | EVANDER WAY AND LILA DRIVE | 330.00'  | 197.77' | 101.95' | S17°30'22"W | 194.82' | 34°20'12" |
| C8                   | EVANDER WAY AND LILA DRIVE | 200.00'  | 155.92' | 82.17'  | S21°59'48"E | 152.00' | 44°40'08" |
| C9                   | EVANDER WAY AND LILA DRIVE | 200.00'  | 225.19' | 126.22' | S12°04'29"E | 213.48' | 64°30'47" |
| C10                  | EVANDER WAY AND LILA DRIVE | 225.00'  | 196.27' | 104.87' | S45°10'19"W | 190.11' | 49°58'47" |
| C11                  | EVANDER WAY AND LILA DRIVE | 225.00'  | 196.27' | 104.87' | S45°10'19"W | 190.11' | 49°58'47" |

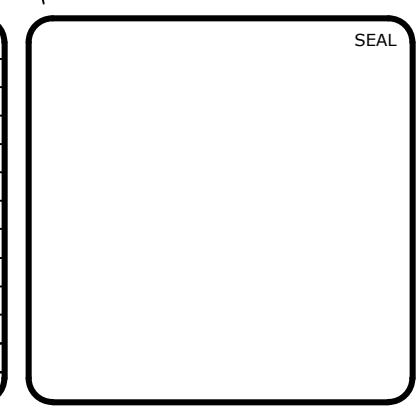


- LEGEND:**
- R/W LINE
  - OVERALL PROPERTY BOUNDARY
  - EXISTING R/W LINE
  - PUBLIC UTILITY EASEMENT LINE
  - PRIVATE UTILITY EASEMENT LINE
  - PERMANENT DRAINAGE EASEMENT
  - PRIVATE DRAINAGE EASEMENT
  - RIPARIAN BUFFER LINE
  - EX. WETLANDS
  - BMP MAINTENANCE & ACCESS EASEMENT
  - ROADWAY CENTERLINE
  - TRAIL
  - SIGN
  - 10'x70' SIGHT TRIANGLE
  - NEW ROADWAY PAVEMENT
  - PROPOSED CONSERVATION AREA
  - STREAM IMPACT



WILLIAM J. MANN, TRUSTEE  
2017 17E 0282  
AKPAR: 72951

| REV. NO. | DESCRIPTIONS  | DATE       |
|----------|---|------------|
| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
| 3        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.27 |
| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
| 1        | REVISIONS PER COUNTY EROSION CONTROL AND STORMWATER, NCDOT PHSS | 2018.10.02 |
| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



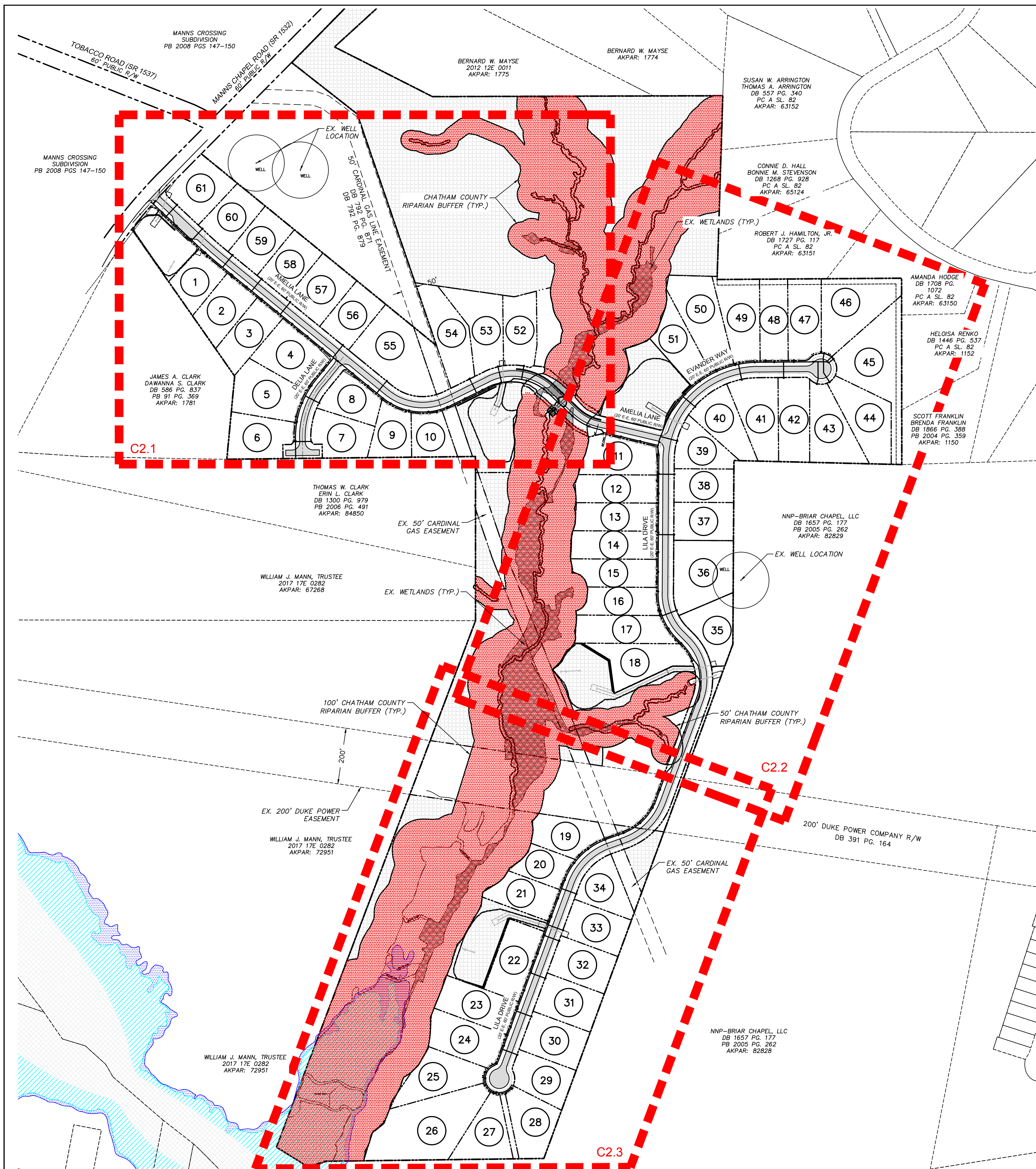
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**RYAN'S CROSSING**  
Chatham County, North Carolina

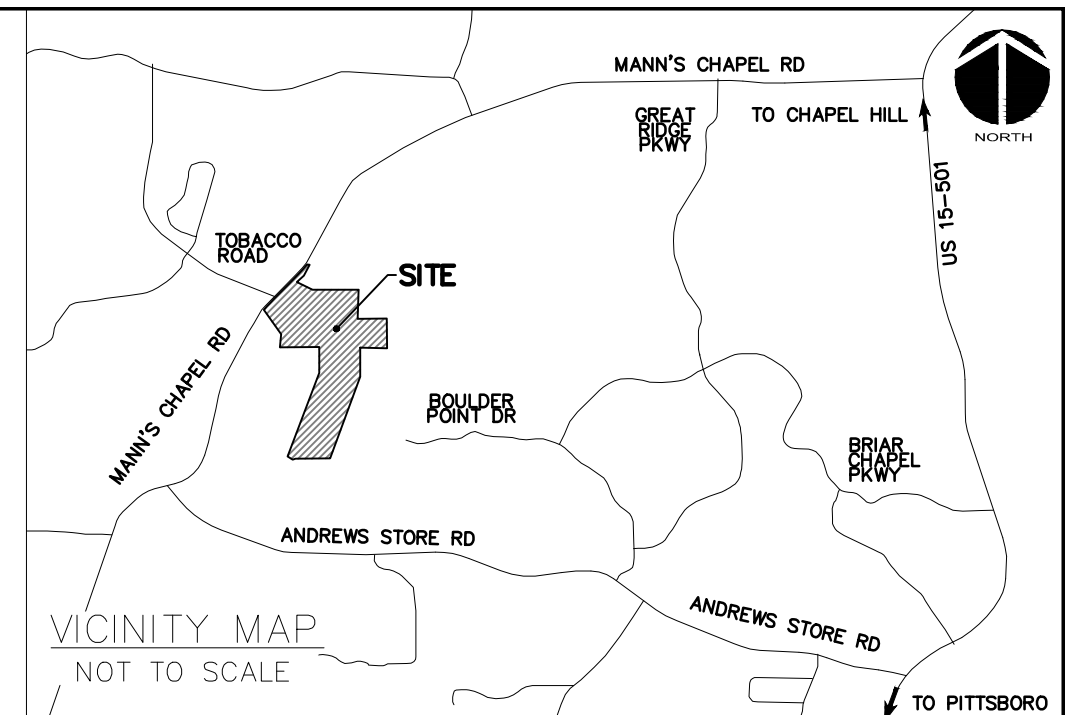
**CONSTRUCTION PLAT**  
SITE PLAN

|                                      |                    |                       |
|--------------------------------------|--------------------|-----------------------|
| DATE: AUGUST 17, 2018                | SCALE: 1"=60'      | HMC FILE NUMBER: C1.0 |
| MCE PROJ. # 07291-0002               | HORIZONTAL: 1"=60' | DRAWING NUMBER: C1.3  |
| DRAWN: BSS                           | VERTICAL: N/A      | REVISION: 4           |
| DESIGNED: BSS                        |                    |                       |
| CHECKED: GCA                         |                    |                       |
| PROJ. MGR.: CHS                      |                    |                       |
| STATUS: PRELIMINARY FOR CONSTRUCTION |                    |                       |



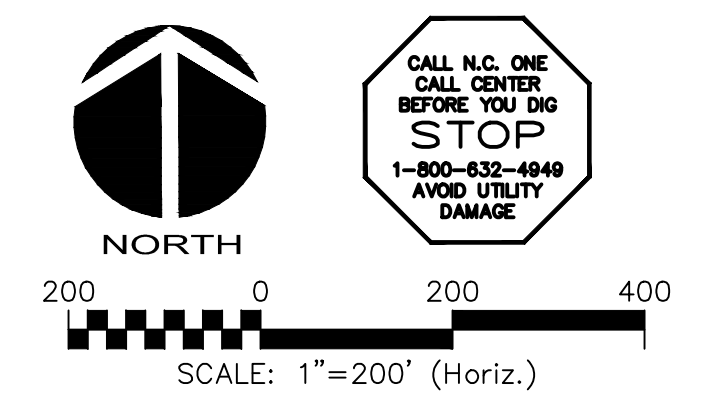
**UTILITY NOTES:**

1. ALL WATER MAIN CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH CURRENT CHATHAM COUNTY STANDARDS, SPECIFICATIONS & DETAILS.
2. ALL PERMITS RELATING TO THIS PROJECT MUST BE OBTAINED PRIOR TO CONSTRUCTION.
3. ALL WATER MAINS SHALL HAVE A MIN. OF 3'-0" OF COVER AS MEASURED FROM FINISHED GRADE TO TOP OF PIPE AT THE LOCATION WHERE INSTALLED.
4. CONTRACTOR SHALL USE A MIN. 20' SECTION DIP CLASS 350 CENTERED UNDER STORMWATER PIPE WHERE 18" MIN. VERTICAL CLEARANCE CANNOT BE MET BETWEEN STORMWATER AND WATER.
5. TRACER WIRE AND TRACER WIRE TEST STATIONS ARE TO BE INSTALLED ON ALL WATER MAINS. TRACER WIRE TEST STATIONS ARE TO BE LOCATED AT ALL FIRE HYDRANTS WITHIN A 3 FOOT RADIUS OF THE HYDRANT AND PREFERABLY TO THE REAR OF THE HYDRANT.
6. WATER SERVICES SHALL BE EXTENDED FROM THE MAIN TO A METER BOX LOCATED WITHIN THE RIGHT OF WAY. THE METER SHALL BE PLACED AT THE EDGE OF THE SERVICED LOT'S RIGHT OF WAY LINE OR EASEMENT. SERVICE LINE SHALL BE RUN ON A TRUE LINE FROM THE WATER MAIN TO THE METER BOX, AND WHERE POSSIBLE, SERVICE LINE SHALL BE PERPENDICULAR TO THE MAIN LINE. NO WATER BOXES OR VAULTS SHALL BE PLACED IN STREETS, SIDEWALKS, PARKING AREAS, OR DRIVEWAYS.
7. WATER MAINS WILL BE 5.0' AS MEASURED HORIZONTALLY BEHIND EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE.
8. ALL WATER MAINS WITHIN PUBLIC EASEMENTS AND PUBLIC RIGHT-OF-WAY TO BE OWNED, OPERATED AND MAINTAINED BY CHATHAM COUNTY, AND WILL BE CONTAINED WITHIN 20' WIDE PUBLIC WATER LINE EASEMENT (MINIMUM) CENTERED ON THE PROPOSED WATER MAIN.
9. SEPTIC SYSTEM DESIGN AND PERMITTING SHALL BE BY OTHERS.
10. PERMANENT DRAINAGE EASEMENT TO BE MAINTAINED BY NCDOT. PRIVATE EASEMENT TO BE MAINTAINED BY HOA OR AGENT THEREOF.
11. AT POINTS WHERE A UTILITY IS PLACED UNDER EXISTING STORM DRAINS THE TRENCH SHALL BE BACKFILLED WITH CLASS B CONCRETE UP TO THE OUTSIDE DIAMETER OF THE PIPE.

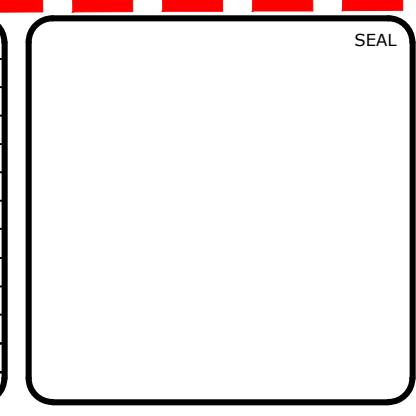


**LEGEND:**

- R/W LINE
- OVERALL PROPERTY BOUNDARY
- EXISTING R/W LINE
- PUBLIC UTILITY EASEMENT LINE
- PRIVATE UTILITY EASEMENT LINE
- PERMANENT DRAINAGE EASEMENT
- PRIVATE DRAINAGE EASEMENT
- RIPARIAN BUFFER LINE
- EX. WETLANDS
- BMP MAINTENANCE & ACCESS EASEMENT
- ROADWAY CENTERLINE
- SIGN
- 10'x70' SIGHT TRIANGLE
- NEW ROADWAY PAVEMENT
- PROPOSED CONSERVATION AREA
- WATER MAIN
- WATER METER
- FIRE HYDRANT ASSEMBLY



| REV. NO. | DESCRIPTION   | DATE       |
|----------|---|------------|
| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
| 3        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.27 |
| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
| 1        | REVISIONS PER COUNTY EROSION CONTROL AND STORMWATER, NCDOT PHSS | 2018.10.02 |
| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



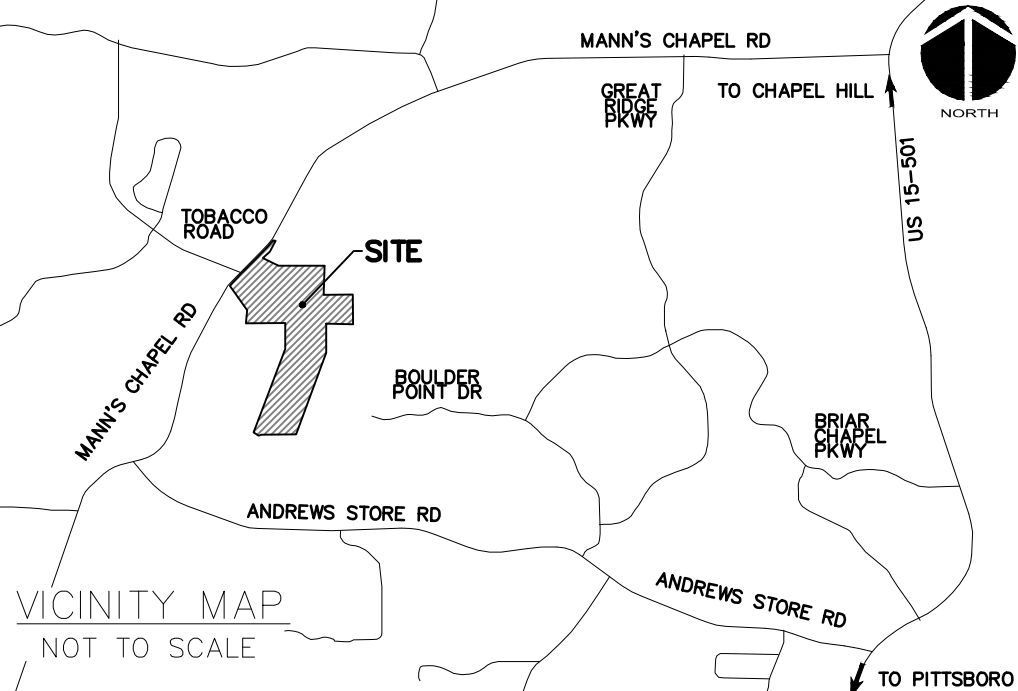
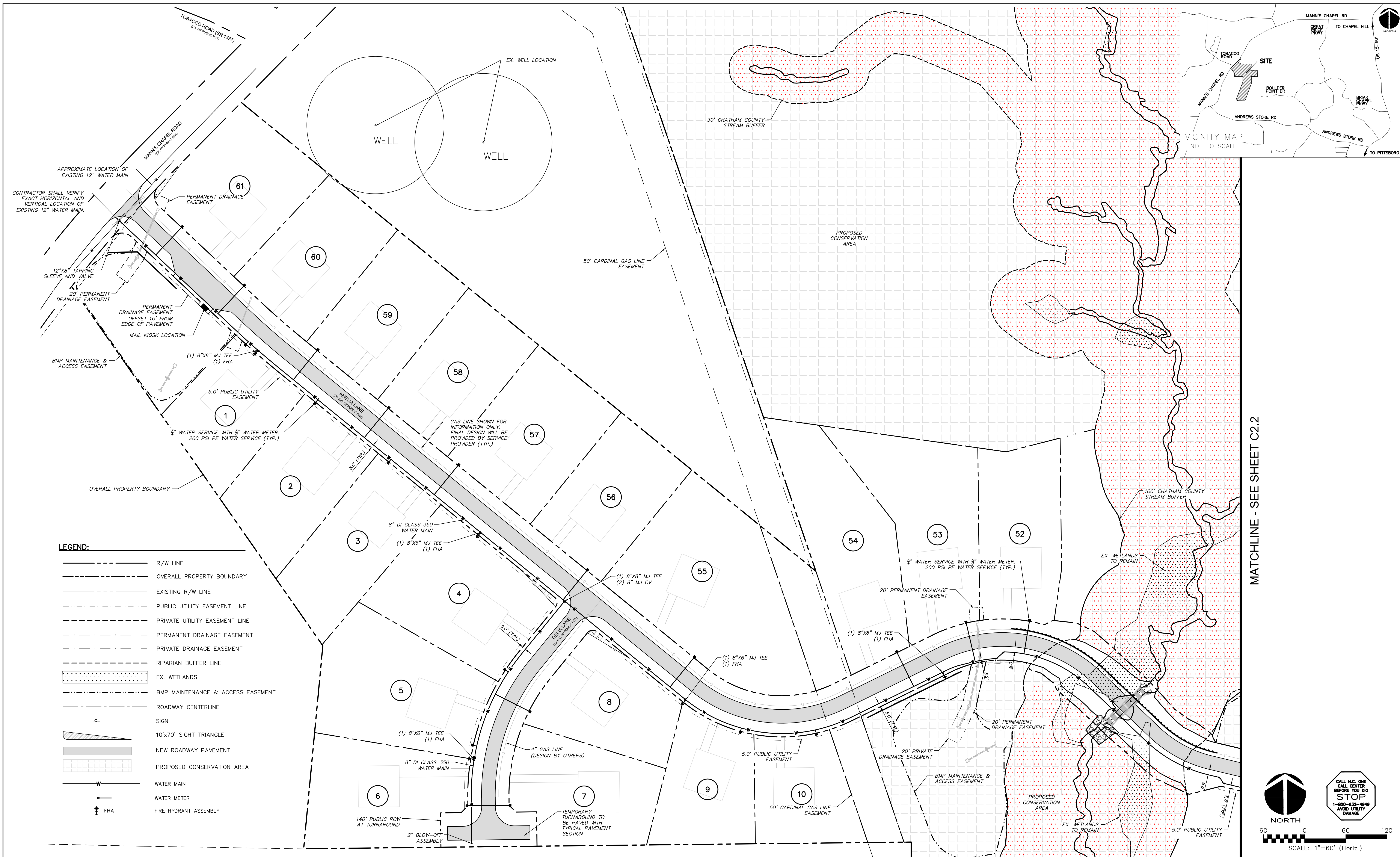
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**RYAN'S CROSSING**  
Chatham County, North Carolina

**CONSTRUCTION PLAT**  
OVERALL UTILITY PLAN

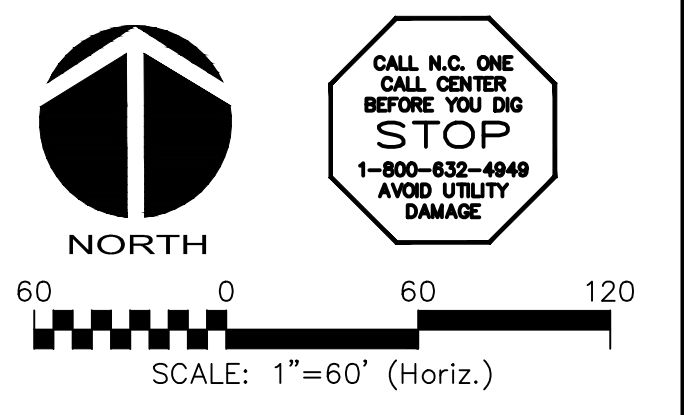
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| DATE: AUGUST 17, 2018                | SCALE: C2.0           | HAC FILE NUMBER: C2.0 |
| MCE PROJ. # 07291-0002               | HORIZONTAL: 1" = 200' | DRAWING NUMBER: C2.0  |
| DRAWN: BSS                           | VERTICAL: N/A         | REVISION: 4           |
| DESIGNED: BSS                        |                       |                       |
| CHECKED: GCA                         |                       |                       |
| PROJ. MGR.: CHS                      |                       |                       |
| STATUS: PRELIMINARY FOR CONSTRUCTION |                       |                       |



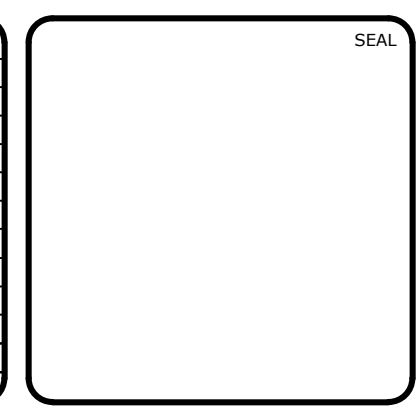
**LEGEND:**

|  |                                   |
|--|-----------------------------------|
|  | R/W LINE                          |
|  | OVERALL PROPERTY BOUNDARY         |
|  | EXISTING R/W LINE                 |
|  | PUBLIC UTILITY EASEMENT LINE      |
|  | PRIVATE UTILITY EASEMENT LINE     |
|  | PERMANENT DRAINAGE EASEMENT       |
|  | PRIVATE DRAINAGE EASEMENT         |
|  | RIPIARIAN BUFFER LINE             |
|  | EX. WETLANDS                      |
|  | BMP MAINTENANCE & ACCESS EASEMENT |
|  | ROADWAY CENTERLINE                |
|  | SIGN                              |
|  | 10'x70' SIGHT TRIANGLE            |
|  | NEW ROADWAY PAVEMENT              |
|  | PROPOSED CONSERVATION AREA        |
|  | WATER MAIN                        |
|  | WATER METER                       |
|  | FIRE HYDRANT ASSEMBLY             |

MATCHLINE - SEE SHEET C2.2



| REV. NO. | DESCRIPTION   | DATE       |
|----------|---|------------|
| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
| 3        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.27 |
| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
| 1        | REVISIONS PER COUNTY EROSION CONTROL AND STORMWATER, NCDOT P155 | 2018.10.02 |
| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



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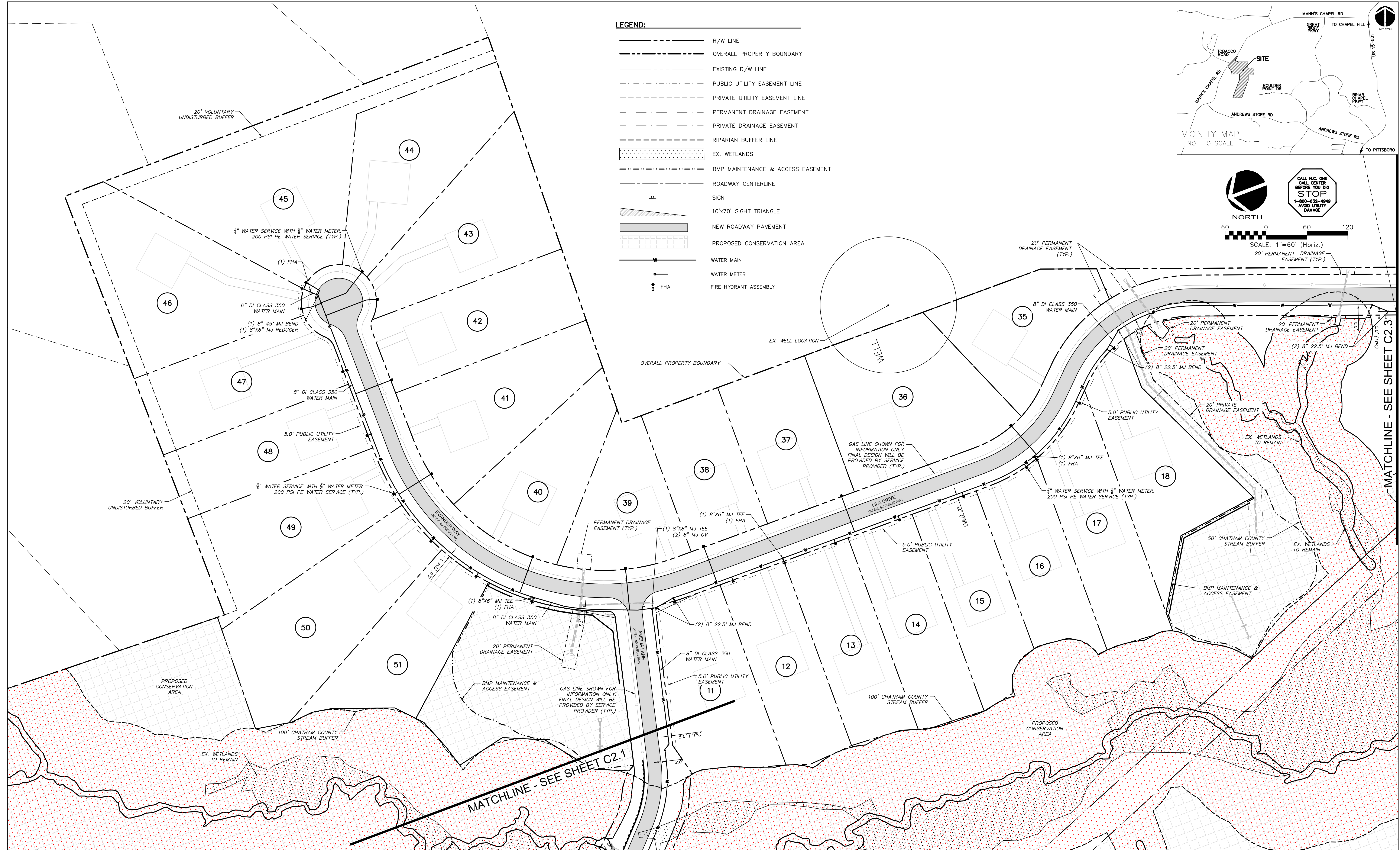
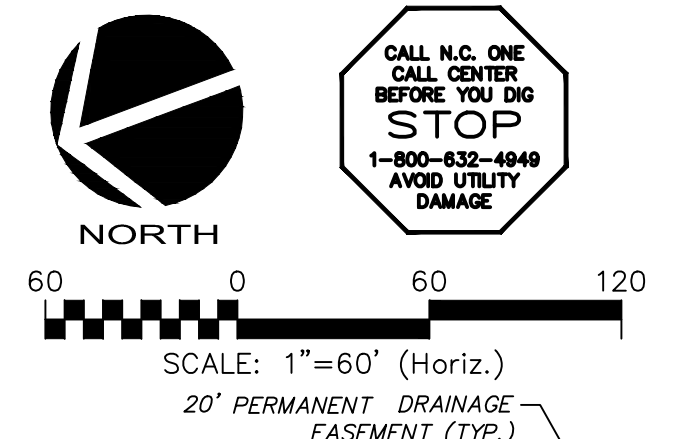
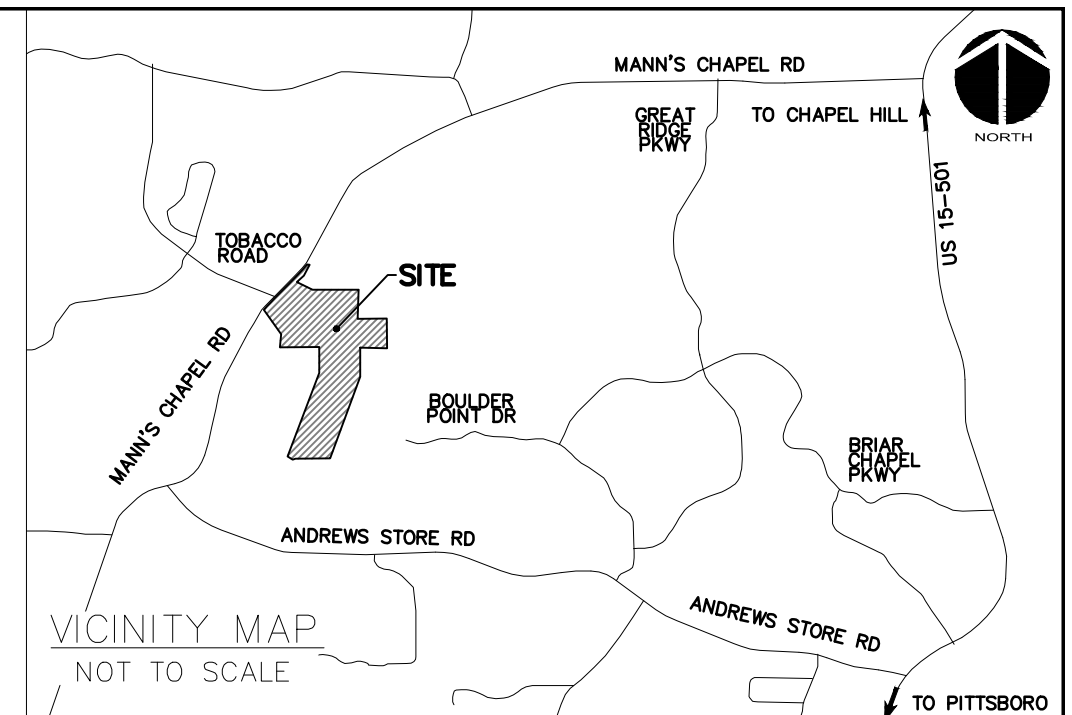
**RYAN'S CROSSING**  
Chatham County, North Carolina

**CONSTRUCTION PLAT**  
UTILITY PLAN

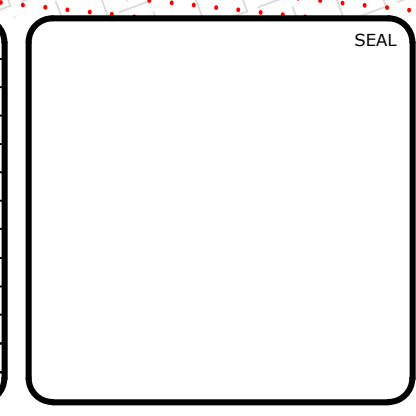
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|--------------------------------------|---------------------------|-----------------------|
| DATE: AUGUST 17, 2018                | SCALE: HORIZONTAL: 1"=60' | H&C FILE NUMBER: C2.0 |
| MCE PROJ. # 07291-0002               | DESIGNED: BSS             | DRAWING NUMBER: C2.1  |
| CHECKED: GCA                         | PROJ. MGR.: CHS           | REVISION: 4           |
| STATUS: PRELIMINARY FOR CONSTRUCTION |                           |                       |

**LEGEND:**

- R/W LINE
- - - OVERALL PROPERTY BOUNDARY
- - - EXISTING R/W LINE
- - - PUBLIC UTILITY EASEMENT LINE
- - - PRIVATE UTILITY EASEMENT LINE
- - - PERMANENT DRAINAGE EASEMENT
- - - PRIVATE DRAINAGE EASEMENT
- - - RIPARIAN BUFFER LINE
- - - EX. WETLANDS
- - - BMP MAINTENANCE & ACCESS EASEMENT
- - - ROADWAY CENTERLINE
- ▲ SIGN
- ▲ 10'x70' SIGHT TRIANGLE
- NEW ROADWAY PAVEMENT
- PROPOSED CONSERVATION AREA
- W — WATER MAIN
- WM — WATER METER
- FHA — FIRE HYDRANT ASSEMBLY



| REV. NO. | DESCRIPTION   | DATE       |
|----------|---|------------|
| 4        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.28 |
| 3        | REVISIONS PER NCDOT COMMENTS                                    | 2018.11.27 |
| 2        | REVISIONS PER NCDOT   | 2018.11.16 |
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| 0        | INITIAL SUBMITTAL   | 2018.08.17 |



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**RYAN'S CROSSING**  
Chatham County, North Carolina

**CONSTRUCTION PLAT**  
UTILITY PLAN

|                                      |                             |                       |
|--------------------------------------|-----------------------------|-----------------------|
| DATE: AUGUST 17, 2018                | SCALE: HORIZONTAL: 1" = 60' | H&C FILE NUMBER: C2.0 |
| MCE PROJ. # 07291-0002               | VERTICAL: N/A               | DRAWING NUMBER: C2.2  |
| DRAWN: BSS                           |                             |                       |
| DESIGNED: BSS                        |                             |                       |
| CHECKED: GCA                         |                             |                       |
| PROJ. MGR.: CHS                      |                             |                       |
| STATUS: PRELIMINARY FOR CONSTRUCTION | REVISION: 4                 |                       |



