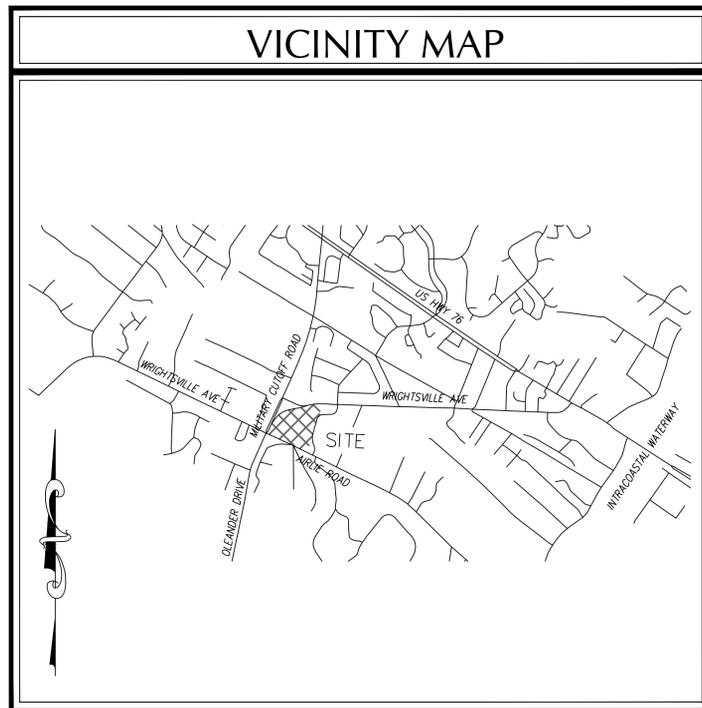
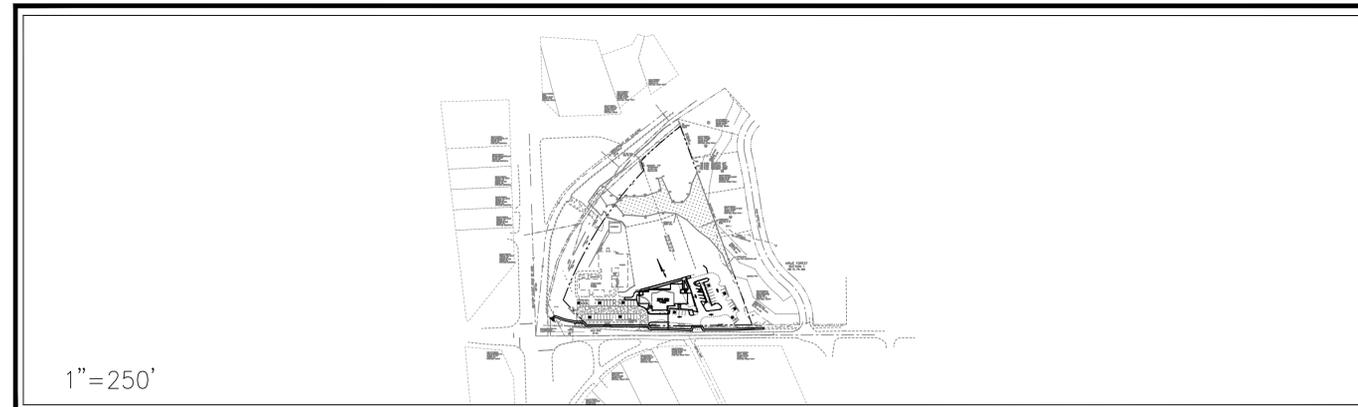


# SITE DEVELOPMENT PLAN FOR ST. ANDREWS ON-THE-SOUND EXPANSION WILMINGTON, NORTH CAROLINA MAY 2013



VICINITY MAP  
(NTS)



1"=250'

| DESCRIPTION                | EXISTING       | PROPOSED       |
|----------------------------|----------------|----------------|
| 1' CONTOUR INTERVAL        | —              | —              |
| 5' CONTOUR INTERVAL        | - - - - -      | —              |
| PROPERTY LINE              | - - - - -      | - - - - -      |
| ROADWAY CENTERLINE         | - - - - -      | - - - - -      |
| RIGHT OF WAY LIMITS        | - - - - -      | - - - - -      |
| EASEMENT LINE              | - - - - -      | - - - - -      |
| CURB & GUTTER              | - - - - -      | - - - - -      |
| SANITARY SEWER FACILITIES  | —○—            | —●—            |
| STORM SEWER FACILITIES     | —■—            | —■—            |
| WATERLINE                  | —□—            | —□—            |
| FIRE HYDRANT ASSEMBLY      | ⊕              | ⊕              |
| WATERWAYS                  | —              | N/A            |
| PROPOSED LOT AND S.F.      | ⓐ              | ⓐ              |
| OPEN SPACE LABEL           |                |                |
| OPEN SPACE                 | ▨              | ▨              |
| BUILDING SET BACKS         | —              | —              |
| PRIVATE SANITARY SET BACKS | —              | —              |
|                            | STREET SIGN    | STREET SIGN    |
|                            | 404 WETLANDS   | 404 WETLANDS   |
|                            | FLOW DIRECTION | FLOW DIRECTION |

**DEVELOPER/OWNER**

**ST. ANDREWS ON-THE-SOUND  
EPISCOPAL CHURCH**  
101 AIRLIE ROAD  
WILMINGTON, NC 28403

**PREPARED BY:**

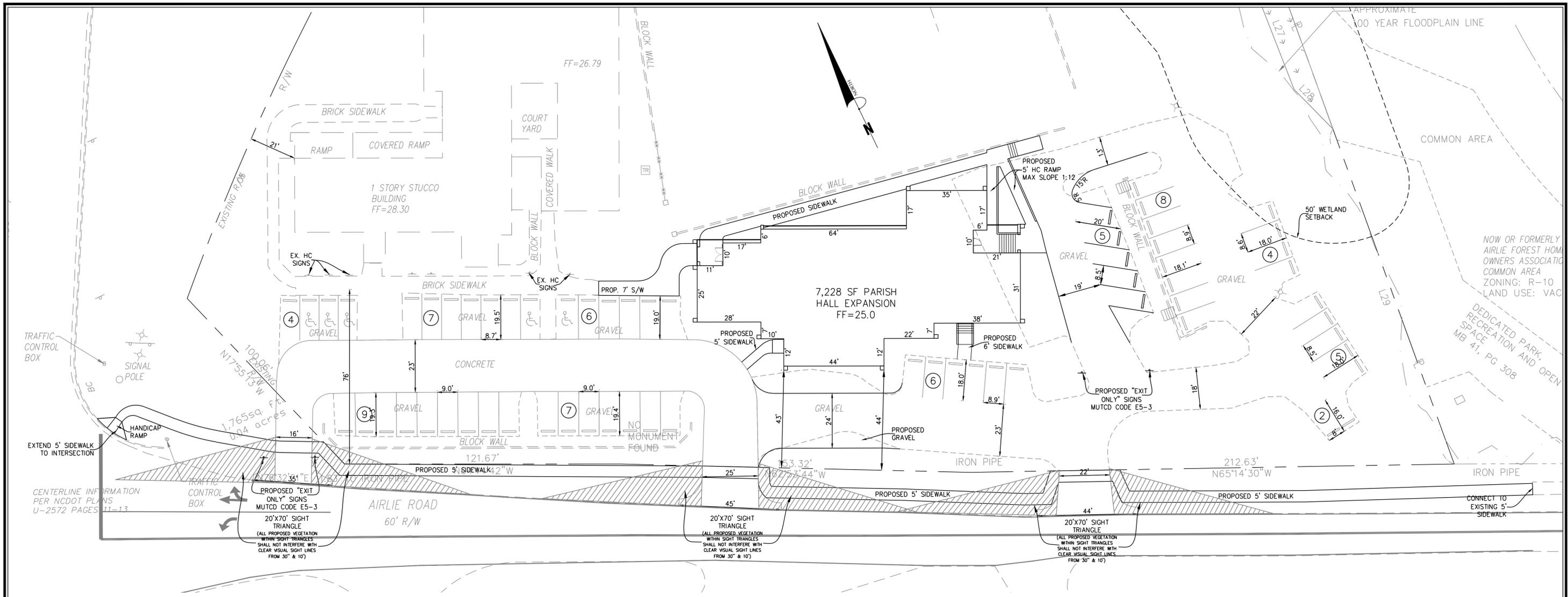
**GSP CONSULTING, PLLC**  
**ENGINEERING**  
6626 Gordon Road, Unit C, Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659 License # P-0718

| INDEX OF SHEETS |  |
|-----------------|--|
| SHT C-0         | COVER SHEET  |
| SHT C-1         | GENERAL NOTES  |
| SHT C-2         | EXISTING CONDITIONS/DEMOLITION PLAN                          |
| SHT C-2.1       | SITE INVENTORY PLAN  |
| SHT C-3.1       | OVERALL SITE PLAN  |
| SHT C-3.2       | SITE PLAN  |
| SHT C-4         | GRADING, DRAINAGE, UTILITY & EROSION & SEDIMENT CONTROL PLAN |
| SHT C-5         | STANDARD DETAILS   |
| SHT C-6         | STANDARD DETAILS   |
| SHT C-7         | CFPUA DETAILS  |
| SHT L-1         | LANDSCAPE PLAN   |

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

| Approved Construction Plan |       |
|----------------------------|-------|
| Name                       | Date  |
| Planning _____             | _____ |
| Traffic _____              | _____ |
| Fire _____                 | _____ |

| SITE DATA TABLE   |                                |
|---|--------------------------------|
| <b>GENERAL NOTES:</b>   |                                |
| 1. NEW HANOVER COUNTY PARCEL NOS:<br>PIN 315714.32.2938 / PID 5600-003-001-000<br>PIN 315714.32.4957 / PID 5600-003-008-001   |                                |
| 2. TOTAL TRACT AREA: 187,173 SF (4.30 AC.±) EXISTING  |                                |
| 3. ZONING DISTRICT: O&I<br>REQ'D. SETBACKS - 20' FRONT 20' CORNER 20' REAR (25' TO RESIDENTIAL) 10' SIDE (20 TO RESIDENTIAL)  |                                |
| PROVD SETBACKS - 43' FRONT (N/A) CORNER 438' REAR 143' SIDE   |                                |
| 4. CAMA LAND CLASSIFICATION: CONSERVATION   |                                |
| 5. WETLANDS HAVE BEEN LOCATED ON THIS PROPERTY AND VERIFIED BY USACE.   |                                |
| 6. A PORTION OF THIS PROPERTY LIES WITHIN A FEMA DESIGNATED 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP #3720315700J, EFFECTIVE DATE APRIL 3, 2006   |                                |
| <b>DEVELOPMENT DATA:</b>  |                                |
| TOTAL TRACT AREA = 187,173 SF = 4.30 AC. (EXISTING)   |                                |
| DEVELOPMENT AREA - 5.29 A.C.  |                                |
| BUILDING COVERAGE - 9,849 S.F. (EXISTING)<br>7,228 S.F. (PROPOSED)<br>17,077 S.F. (7.4% TOTAL)  |                                |
| MAX. BLDG. HGT. - 45' (PROPOSED 32') (EXISTING 28')   |                                |
| PARKING -<br>242 SEATS X 4 MIN. SP./SEAT = 61<br>MINIMUM TOTAL SPACES REQUIRED = 61<br>242 SEATS X 3 MAX. SP./SEAT = 81<br>MAXIMUM TOTAL SPACES PERMITTED = 81<br>** 63 EXISTING SPACES PROVIDED (5 H/C) ** |                                |
| IMPERVIOUS SURFACES -   |                                |
| EXISTING TO REMAIN  |                                |
| BUILDING -  | 9,849 S.F.                     |
| PARKING AREA -  | 28,275 S.F.                    |
| CONC. WALKS -   | 3,853 S.F.                     |
| TOTAL   | 41,977 S.F.                    |
| PROPOSED  |                                |
| BUILDING -  | 7,485 S.F.                     |
| PARKING -   | 202 S.F.                       |
| CONC. WALKS -   | 1,925 S.F.                     |
| TOTAL -   | 9,612 S.F. (22.9% OF EXISTING) |
| UTILITY CAPACITY REQUESTS:<br>EXISTING WATER/SEWER - 1,452 GPD BASED ON<br>6 GAL/SEAT/DAY. 242 EXISTING SEATS<br>ADDITIONAL FLOW NOT ADDED WITH THIS PROPOSED EXPANSION.                                    |                                |
| <b>DEVELOPMENT NOTES:</b>   |                                |
| 1. ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE & TECHNICAL STANDARDS MANUAL.   |                                |
| 2. PROJECT SHALL COMPLY WITH ALL CITY, STATE & FEDERAL REGULATIONS.   |                                |
| <br>APPROVED DRAINAGE PLAN<br>Date: _____ Permit # _____<br>Signed: _____  |                                |
| <p><b>NOTE:</b><br/>ALL DESIGN AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE &amp; THE STATE OF NORTH CAROLINA</p>   |                                |



**TRANSPORTATION NOTES:**

1. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY & FOR DRIVEWAY ARE TO BE THERMOPLASTIC & MEET CITY AND/OR NCDOT STANDARDS.
2. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
3. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
4. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
5. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CALL 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
6. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
7. CONTACT 341-7888 TO DISCUSS SITE LIGHTING OPTIONS

| No. | Revision | Date | By |
|-----|----------|------|----|
|     |          |      |    |
|     |          |      |    |
|     |          |      |    |

|           |        |         |           |
|-----------|--------|---------|-----------|
| Designer  | GSP    | Scale   | 1" = 20'  |
| Drawn By  | GSP    | Date    | MAY 2013  |
| License # | P-0718 | Job No. | 2013-0002 |

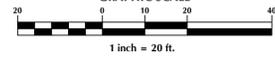
**ST. ANDREWS ON-THE-SOUND  
EXPANSION**  
Wilmington New Hanover County North Carolina

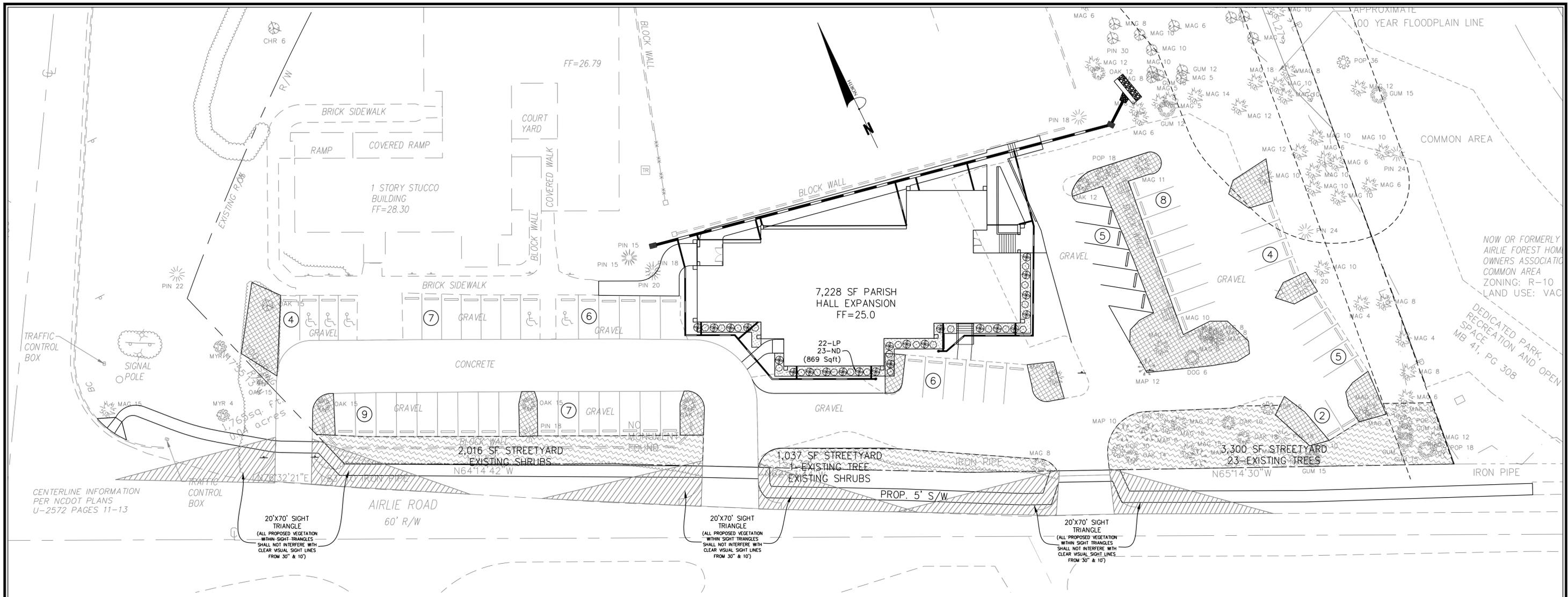
**SITE PLAN**

PREPARED FOR:  
ST. ANDREWS ON-THE-SOUND EPISCOPAL CHURCH  
101 AIRLIE ROAD  
WILMINGTON, NC 28403

**GSP CONSULTING, PLLC  
ENGINEERING**  
6626 Gordon Road Unit C Wilmington, North Carolina 28411 tel: 910-442-7870 fax: 910-799-6659

Sheet No.  
**C-3.2**





**GENERAL NOTES:**

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EXISTING WATER/SEWER - 1,452 GPD BASED ON  
6 GAL/SEAT/DAY. 242 EXISTING SEATS  
ADDITIONAL FLOW NOT ADDED WITH THIS PROPOSED EXPANSION.

**Landscape Calculations:**

(Note: All regulated & significant trees have been field located and are labeled.)

|   | Req'd.                   | Prov'd.                   |
|---|--------------------------|---------------------------|
| Wrightsville Avenue Primary Streetyard<br>790 l.f. frontage - 30 l.f. driveway =<br>760 X .18 (O&I District factor)<br>1 tree / 600 s.f.<br>6 shrubs / 600 s.f. | 13,680 s.f.<br>23<br>137 | FUTURE                    |
| Airlie Road Secondary Streetyard<br>488 l.f. frontage - 48 l.f. driveway =<br>440 X .9 (1/2 O&I District factor)<br>1 tree / 600 s.f.<br>6 shrubs / 600 s.f.    | 3,960 s.f.<br>7<br>40    | 6,353 s.f.<br>24 EXISTING |
| Parking Area Interior (8% Coverage)-<br>28,477 s.f. X 8%  | 2,278 s.f.               | 4,282 s.f.                |
| Foundation Plantings -<br>213 l.f. bldg. facade @ 32' hgt. X 12%  | 818 s.f.                 | 869 s.f.                  |
| Bufferyards -<br>619 l.f. buffer length<br>1 tree / 30 l.f.   | 21                       | 37 EXISTING               |
| Overall Development Area -<br>4.30 ac.± development area x 15 trees/ac.   | 65                       | 394 EXISTING              |

**PLANT LIST-OR EQUIVALENTS**

| KEY | NO. | BOTANICAL NAME             | COMMON NAME                | MIN. SIZE | TYPE (SHRUB, CANOPY TREE OR UNDERSTORY TREE) | SIZE (LARGE OR SMALL) | SHADING SF GIVEN (TREES ONLY) | PLANTING REMARKS |
|-----|-----|----------------------------|----------------------------|-----------|--|-----------------------|-------------------------------|------------------|
| LP  | 22  | LOROPETALUM CHINESE 'RUBY' | RUBY CHINESE FRINGE FLOWER | 3 GAL.    | SHRUB  |                       |                               | 4' O.C.          |
| ND  | 23  | NANDINA DOMESTICA          | COMMON NANDINA             | 36"-48"   | SHRUB  |                       |                               | 3' O.C.          |

O.C. - "ON CENTER" CAL. - "CALIPER AT 6" ABOVE GRADE" GAL. - "GALLON CONTAINER"  
MIN. PLANTING SIZE: SHADE TREES=2-2.5" CAL. MULTI-STEM= 8-10" SHRUBS= 12"

**LANDSCAPE AREAS**

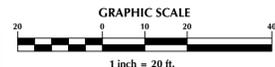
- STREET YARD LANDSCAPING
- FOUNDATION LANDSCAPING
- PARKING INTERIOR PLANTING

**Approved Construction Plan**

Name \_\_\_\_\_ Date \_\_\_\_\_  
Planning \_\_\_\_\_  
Traffic \_\_\_\_\_  
Fire \_\_\_\_\_

**WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: \_\_\_\_\_ Permit # \_\_\_\_\_  
Signed: \_\_\_\_\_

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| No. | Revision | Date | By |
|-----|----------|------|----|
|     |          |      |    |

|           |        |         |           |
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| Designer  | GSP    | Scale   | 1" = 20'  |
| Drawn By  | GSP    | Date    | MAY 2013  |
| License # | P-0718 | Job No. | 2013-0002 |

**ST. ANDREWS ON-THE-SOUND EXPANSION**  
Wilmington North Carolina  
New Hanover County

**LANDSCAPE PLAN**

PREPARED FOR:  
ST. ANDREWS ON-THE-SOUND EPISCOPAL CHURCH  
101 AIRLIE ROAD  
WILMINGTON, NC 28403

**GSP CONSULTING, PLLC ENGINEERING**  
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Sheet No. **L-1**