



PAT McCRORY  
*Governor*

NICHOLAS J. TENNYSON  
*Secretary*

7/21/2016

**Chatham County**

**County Driveway Permit File Number 19.1003  
(Sunset Grove Subdivision Phase 1)**

**Re: Commercial Driveway Permit Application with Entrance onto SR 1700**

B&F Consulting  
c/o Russell Briggs  
2805 Tobermory Lane  
Raleigh, NC 27606

Dear Mr. Briggs:

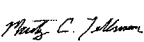
Personnel assigned to this office have conducted a review of the permit application & plans and approval is granted subject to the following stipulations and attached special provisions:

1. This approval covers only work associated with the construction of an entrance connection to the NCDOT maintained roadway.
2. The entrance onto SR 1007 is to be constructed in accordance with the attached plan sheets.
3. The entrance onto SR 1007 is to be paved for at least 50' along the centerline of the entrance.
4. The entrance onto SR 1007 shall require radii on each side of the driveway as shown on the attached drawing.
5. No parking or outdoor advertising (signs) shall be allowed inside the right of way of SR 1007.
6. Any areas inside the right of way disturbed during construction shall be seeded and mulched immediately upon completion of construction.
7. Upon completion of construction, final approval by the District Engineer is required prior to opening the access connection for public use (page 9 Driveway Manual).
8. **The Owner/Developer & Engineer are advised that any changes to the approved site plan or construction of any structures which will add additional traffic to the site will require issuance of a new driveway permit and encroachment by NCDOT.**
9. **Any work required within existing or proposed NCDOT right of way not covered in the above stipulations shall be constructed in accordance with Encroachment Agreement**

 **Nothing Compares™**

**19.4339. This Encroachment Agreement will show all roadway details including, but not limited to, roadway widening, drainage and pavement markings.**

10. This Driveway Permit accompanies Encroachment Agreement 19.4339. Any work performed under this Driveway Permit shall be considered work performed under the Encroachment Agreement and such work is expressly covered by any bond issued pursuant to the Encroachment Agreement.
11. The term "Work" as used herein shall include any labor performed under this Driveway Permit and/or the Encroachment Agreement, including, but not limited to, the installation of erosion control measures, such as, but not limited to, silt fences, including the staking of any such erosion control measures; and the installation of gravel in preparation for paving.
12. Attached to this correspondence please find an approved copy of TEB Form 65-04 (Driveway Permit Application - N. C. Department of Transportation). Upon completion of the driveway entrance construction please notify the Chatham County Maintenance Department (Phone (919)742-3431) so a final inspection of the entrance can be made.

Sincerely,  
DocuSigned by:  
  
Marty C. Tillman  
District Engineer

Attachments

cc: Richard Hancock, P.E., Division Engineer  
Justin Bullock P.E., County Maintenance Engineer  
Renee Paschal, Chatham County Manager  
File



## ENCROACHMENT SPECIAL PROVISIONS

Sunset Grove Subdivision  
DW# 19.1003 (Chatham County)

*Approval of the encroachment agreement is made subject to the following Special Provisions:*

1. Changes noted in red on the plans shall be incorporated into and made a part of the encroachment agreement. An executed copy of the encroachment agreement shall be available at the construction site at all times. NCDOT reserves the right to stop all work unless evidence of approval can be shown.
2. Notify the following prior to beginning work:
  - *Justin Bullock, P.E., Maintenance Engineer*  
1404 E Raleigh St.  
Siler City, NC 27344  
(919)742-3431
3. The Encroaching Party shall comply with all applicable federal, state and local environmental regulations, and shall obtain all necessary federal, state and local environmental permits, including but not limited to, those related to sediment control, stormwater, wetland, streams, endangered species, and historical sites.
4. All materials and construction shall be in accordance with NCDOT standards and specifications, including but not limited to the latest versions of the **NCDOT Standard Specifications for Roads and Structures**, the **NCDOT Roadway Standards Drawings**, and **NCDOT Policies and Procedures for Accommodating Utilities on Highway Rights of Way**.
5. It shall be the responsibility of the Encroacher to determine the location of other utilities within the encroachment area in accordance with General Statute 87-102. The Encroacher shall be responsible for notifying other utility owners and providing protection and safeguards to prevent damage or interruption to existing facilities and to maintain accessibility to existing utilities. Costs to repair, restore, or relocate existing utilities due to this encroachment shall be the responsibility of the encroaching party.
6. NCDOT does not guarantee the Right of Way on this road, nor will it be responsible for any claim for damages brought by any property owner by reason of this encroachment. All Right of Way and easements necessary for construction and maintenance shall be dedicated to NCDOT with the proof of dedication furnished to the District Engineer prior to beginning work. Encroachment within the Right of Way does not imply approval for encroachment onto adjacent property. The Encroacher shall be responsible for securing any easement, permit, permission, or approval for encroachment or other use of property outside the state maintained right of way. Right of Way monuments disturbed during construction shall be referenced by a Professional Land Surveyor and reset immediately after construction.
7. The encroaching Party shall take whatever measures are necessary to minimize soil erosion and siltation, water pollution, and air pollution. It shall be the responsibility of the Encroaching Party to keep fully informed to comply with the applicable regulations of all legally constituted authorities relating to pollution prevention and control. In the event of conflict between regulations, specifications, or requirements, the more restrictive requirement shall apply. All erosion and pollution control devices and measures shall be constructed, installed, maintained and removed by the encroaching party in accordance with all applicable Federal, State and Local laws, regulations, ordinances, and policies. No construction shall begin until all erosion control devices have been installed to the satisfaction of the District Engineer. Failure to comply with this provision shall be grounds for immediate suspension of all activities within the Right of Way.
8. **NCDOT WORK ZONE TRAFFIC CONTROL QUALIFICATIONS AND TRAINING PROGRAM:**  
Effective July 1, 2010, all flagging operations within NCDOT Right of Way require qualified and trained Work Zone Flaggers. Qualified and trained Work Zone Traffic Control Supervisors will be required on Significant Projects.  
Training for this certification is provided by NCDOT approved training sources and by private entities that have been pre-approved to train themselves. If you have questions, contact our web site at <http://www.ncdot.org/doh/preconstruct/wztc/WZTCTrainingProgram/default.html>, or contact Stuart Bourne, P.E. with NCDOT Work Zone Traffic Control Unit at (919) 662-4338 or [sbourne@ncdot.gov](mailto:sbourne@ncdot.gov).
9. A **\$150,000** Performance and Indemnity Bond shall be executed and posted with the District Engineer prior to beginning any work on the Right of Way. The bond shall remain in effect for a period of **one** years following

completion of the job. The encroaching party shall notify the District Engineer in writing when all work within the Right of Way has been completed. Upon receipt of written notification, the District Engineer will inspect the project and provide certification that the project has been completed. When the project has been satisfactorily completed for **one** years, the bonding company shall submit a written request along with a copy of the encroachment authorization to the District Engineer for release of the bond. The bond will be released upon satisfactory final inspection, review, and approval by the District Engineer.

10. A **\$150,000** Performance and Indemnity Bond shall be executed and posted with the District Engineer prior to beginning any work on the Right of Way. The required bond may be executed in any of the following methods.
  - Cash bond in the form of a certified check payable to the North Carolina Department of Transportation.
  - Performance and indemnity bond underwritten by a surety company legally authorized to do business in North Carolina.
  - Continuing bond for the performance of work within the NCDOT Right of Ways.
  - Cashiers check or bank letter of credit (2 copies with original signature) in the amount of the bond.
  - The Bond shall be submitted to the District Engineer, North Carolina Department of Transportation, **300 DOT DRIVE, Asheboro, NC 27205**. Please identify the Encroachment Agreement by including File # **19.1003** on the Bond.
11. Bonds shall remain in effect for a period of **one year** following completion of the job. The encroaching party shall notify the District Engineer in writing when all work within the Right of Way has been completed. Upon receipt of written notification, the District Engineer will inspect the project and provide certification that the project has been completed. When the project has been satisfactorily completed for **one year**, the bonding company shall submit a written request along with a copy of the encroachment authorization to the District Engineer for release of the Bond. The Bond will be released upon satisfactory final inspection, review, and approval by the District Engineer.
12. In the event this encroachment is constructed under multiple contracts and the bond requirement is delegated to the contractor or contractors, separate bonds may be posted. The amount of the bond secured by each contractor shall be proportional to the length and size of the contract. The bond will be held for a period of one (1) year following completion of the contract.
13. No work shall commence until all Bond requirements have been satisfied.
14. The encroaching party shall provide an inspector acceptable to the District Engineer for the work to be performed under this agreement. All costs and expenses for inspection shall be the responsibility of the encroaching party. The inspector's name, telephone and qualifications shall be provided in writing to the District Engineer prior to beginning construction.
15. A pre-construction conference between NCDOT, the Encroaching Party or the Encroaching Party's designated representative, and the contractor(s) is required prior to commencing any work within the Right of Way.
16. Storage of materials or equipment within the Right of Way is prohibited. During non-working hours, equipment shall be parked as close to the right of way line as possible and shall be properly barricaded so that no equipment obstruction shall be within the Clear Recovery Area.
17. Construction equipment or vehicles shall not be parked on the pavement or roadway shoulder.
18. Construction is authorized to be performed on Monday through Friday during the hours between sunrise and sunset.
19. No lane(s) of traffic shall be closed or alteration of the traffic flow will be allowed on or during holidays, holiday weekends, special events, and/or any other time when traffic is unusually heavy. Holidays and holiday weekends shall include, but not be limited to Easter, Memorial Day, Independence Day, and Labor Day.
20. The encroaching party may delegate the performance of certain provisions of this agreement to contractors or other parties. However, this shall not in any way release the encroaching party from its obligations to the terms and provisions of the encroachment.

21. The Encroaching Party shall provide certification signed by a licensed Professional Engineer verifying that construction meets NCDOT design requirements. Certification shall include the following:
  - Subgrade density
  - Base and pavement thickness by type
  - Stone Base density
  - Core and test locations
22. The Encroaching Party shall provide the District Engineer with “as-built” plans upon completion of the installation.
23. Written notification shall be provided to the District Engineer upon completion of the work proposed under this agreement. Materials test frequencies and methods shall be in conformance with the NCDOT Materials and Tests guidelines, or as directed by NCDOT. A letter of approval, or recommendations for compliance, will be provided upon receipt and review of test reports.
24. The encroaching party or the contractor(s) for the encroaching party may request a written letter stating that the encroachment has been satisfactorily completed by making a request in writing to the appropriate County Maintenance Engineer. The letter of completion does not relieve the encroaching party from any obligations or responsibilities under the terms and provisions of the encroachment or from obligations or responsibilities for making repairs needed for a reasonable time period.
25. The traveling public shall be warned of construction with complete and proper signing and traffic control devices in accordance with the current **Manual on Uniform Traffic Control Devices (MUTCD)** and the latest **NCDOT Roadway Standard Drawing and Standard Specifications for Roads and Structures**. No work shall be performed in the Right of Way unless this requirement is satisfied. NCDOT reserves the right to require a written traffic control plan for encroachment operations. Traffic control devices and operations shall include, but are not limited to the following:
  - Adequate and appropriate advance warning signs for any and all work zones/closed or obstructed areas.
  - “End Construction” signage beyond the end of all work zones.
  - Adequate and appropriate delineation and control devices for all work zone areas including but not limited to lane closures, disturbed areas, and active work sites.
  - Properly trained and equipped flagmen/women.
  - Proper maintenance of all traffic control devices, including but not limited to proper signage and controls during periods of inactivity and removal of inappropriate traffic control signage and/or devices.
26. The Encroacher agrees to provide traffic control devices, lane closures, road closures, positive protection and/or any other warning or positive protection devices necessary for the safety of road users during construction and any subsequent maintenance. This shall be performed in conformance with the latest **NCDOT Roadway Standard Drawing and Standard Specifications for Roads and Structures** and Amendments or Supplements thereto. When there is no guidance provided in the Roadway Standard Drawings or Specifications, comply with the **Manual on Uniform Traffic Control Devices for Streets and Highways** and Amendments or Supplement thereto. Information as to the above rules and regulations may be obtained from the Division Engineer.
27. Traffic shall not be detoured or rerouted without the prior written approval of the Division Engineer. Two-way traffic shall be maintained at all times.
28. In the event work is completed in less time than permitted, the normal traffic pattern shall be restored as soon as the work has been completed.
29. The Traffic Services Supervisor shall be notified at (910) 947-3930 in Carthage, NC, prior to beginning work on the Right of Way if there are existing NCDOT signs, traffic signals, or signal equipment in or near the proposed work zone. Costs to relocate, replace, or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
30. Excavation within 500 feet of a signalized intersection will require notification by the party of the second part to the Division Traffic Engineer at telephone number (910) 947-3930. All traffic signal or detection cables must be located prior to excavation.

31. All temporary and final pavement markings, reflective pavement markers, traffic control devices, and signage are the responsibility of the encroaching party and shall be installed in accordance with current NCDOT standards. **Final pavement marking plans shall be submitted to and approved by the Division Traffic Engineer at (910)947-3930, at 150 DOT Drive, Carthage, NC 28327.** Plans should be submitted as soon as possible to allow adequate time for review. **Pavement markings shall be pre-marked and the Division Traffic Services Supervisor shall be notified at (910) 947-3930 for inspection of pre-marking before permanent pavement markings are placed.** The encroaching party shall provide at least two working days notification for the inspection. Pavement markings and reflective pavement markers which are damaged, obscured, or obliterated during construction shall be replaced in conformance with current NCDOT standards. Thermoplastic pavement markings shall be installed at locations where the adjacent pavement are thermoplastic or as directed by the Division Traffic Engineer.
32. All pavement markings shall be thermoplastic and shall conform to the requirements of the latest version of the **NCDOT Standard Specifications for Roads and Structures.**
33. Access to the site covered under this agreement shall remain closed (i.e. barricaded) to traffic until all requirements relating to traffic control and signalization have been satisfied.
34. Curb cuts and ramps for handicapped persons shall be constructed in accordance with the current NCDOT "Standard for Wheelchair Ramp Curb Cuts" and the Americans With Disabilities (ADA) Accessibility Guidelines for Buildings and Facilities.
35. Ingress and egress shall be maintained to businesses and dwellings. Driveways altered during construction shall be restored to a condition equal to that prior to beginning construction.
36. Excavated material shall not be placed on the paved roadway surface at any time unless specifically approved by the District Engineer. Drainage structures shall not be blocked with excavated material at any time.
37. Trenches/excavations/bore pits shall not remain open longer than a 24 hour period. No trench/excavation/bore pit shall be left open overnight except in the event of emergency, in which case the encroacher shall notify the District Engineer and inform him as to the nature and anticipated duration of the emergency. Any excavation left open overnight due to emergency shall be protected and delineated with complete, adequate and appropriate safety and traffic control devices.
38. All backfill shall meet the Statewide Borrow Criteria and shall be placed in accordance with section 300-6 of the latest version of the **NCDOT Standard Specifications for Roads and Structures.** Backfill material shall be free from rocks and debris placed in six inch loose layers and compacted to at least 95% of standard density as determined by AASHTO Method T-99 as modified by NCDOT, except that backfill material placed within eight (8) inches of the pavement subgrade shall be compacted to 100% of standard density. (Copies of these testing procedures are available on request from the NCDOT Materials and Tests Unit.) Each layer must be fully compacted by an approved mechanical tamp before the next layer is placed.
39. Excavated areas adjacent to pavement having more than a 2 inch drop shall be backfilled and made safe with a 6:1 or flatter slope and shall be designated by appropriate delineation during periods of construction inactivity including, but not limited to, night and weekend hours.
40. When burying around the end of a pipe, culvert, or bridge, the utility shall be located a minimum of five (5) feet from the nearest part of the pipe, culvert, or bridge, and buried to a minimum depth of five (5) feet below the stream bed. At points where the utility is placed under existing storm drains by trenching, the trench shall be backfilled with Class M concrete up to the outside diameter of the existing pipe.
41. All excavations inside the theoretical 1:1 slope from the existing edge of pavement to the bottom of the nearest trench wall shall be made in accordance with the following conditions:
- Traffic shall be moved to a travel lane outside the limits of a theoretical 1:1 slope from the bottom of the nearest trench wall to the pavement surface.
  - Active excavation shoring such as sheet piling shall be installed. The design of the shoring shall include the effects of traffic loads. The design shall be designed and sealed by an engineer registered in North Carolina. Shoring plans and design calculations shall be submitted to the Division Engineer for review prior to construction. **Trench boxes shall not be accepted as positive shoring.**

- The trench backfill shall meet the Statewide Borrow Criteria. The trench shall be backfilled in accordance with Section 300-6 of the latest version of the **NCDOT Standard Specifications for Roads and Structures**.
  - At the first sign of trench failure, the trench shall be immediately backfilled with materials consisting of A-1, A-3, A-2-4 soils or A-4 soils having a maximum of 45% passing a No. 200 sieve and a maximum P.I. of 6. All work shall cease and the Division Engineer shall be contacted. The Encroaching party or contractor shall repair any damage to the pavement caused by the excavation.
  - All trench excavation inside the limits of the theoretical 1:1 slope from the bottom of the nearest trench wall to the pavement surface shall be completely backfilled and compacted at the end of each construction day. No portion of the trench shall be left open overnight.
  - The length of parallel excavation shall be limited to the length necessary to install and backfill on joint of pipe at a time, not to exceed twenty five (25) feet.
42. If fill material is to be hauled to the site by means other than legally loaded trucks, the encroacher shall first notify the District Engineer of the method of hauling and provide a description of the haul route detailing all state maintained roads upon which material will be transported. The District Engineer shall determine any measures or precautions which shall be required to preserve and protect the integrity of the roadway and the safety of the traveling public.
43. Drainage structures and systems shall be preserved and protected. Any structure which is disturbed or damaged during construction shall be immediately restored to its original condition at no expense to the Department of Transportation. All utility installations shall be designed and constructed so as not to hinder, disrupt or interfere with existing storm drainage. All facilities shall pass over or under highway drainage facilities.
44. The dry bore method of boring shall be utilized and made perpendicular to the roadway. Any bore exceeding 6 inches shall be encased. Encasements shall extend from ditch line to ditch line in cut sections, 5 feet beyond toe of slope in fill sections, and 3 feet behind curb sections. When the directional boring method is used an overbore shall not be more than two (2") inches greater than the diameter of the pipe encasement. An overbore exceeding two (2") inches greater than the diameter of the pipe or encasement will be considered if the encroachment agreement includes a statement signed and sealed by a North Carolina Registered Professional Engineer indicating that an overbore in excess of two (2") inches of the pipe or encasement will arch and no damage will be done to the pavement or subgrade.
45. At points where the utility is placed under existing storm drains the trench shall be backfilled with Class B concrete up to the outside diameter of the existing pipe.
46. Hydrants shall be placed behind the roadway ditch and as near the right of way line as possible.
47. The grade of top of pipe or casing, including services, shall provide the following minimum bury:
- Crossing under roadways - 3 feet from pavement surface
  - Longitudinal installations - 3 feet from finished grade
  - Crossing under ditches - 2 feet from ditch line
48. All service connections shall be bored unless construction is of ductile iron or equal quality material with satisfactory leakproof joints.
49. All blow-off assemblies shall be directed away from any travel lane.
50. All blow-off valves, vaults, manholes and other appurtenances within the NCDOT right of way shall be located behind the ditch and at the right of way line. Manholes and/or vaults shall not be placed in the ditch line, side slopes of ditches or in the pavement.
51. All manholes and/or vaults shall be of an NCDOT pre-approved design. Manholes or vaults shall be designed for HS-20 live loads and conform to the latest versions of the **NCDOT Standard Specifications for Roads and Structures**, the **NCDOT Roadway Standards Drawings**. Any proposed structure which is not of a design pre-approved by NCDOT shall be submitted to NCDOT with details and design calculations sealed by a Professional Engineer for approval prior to construction. A list of approved structures may be obtained from NCDOT Design Services at 919-250-4128.

52. Manhole rings and covers and valve covers shall be a traffic bearing type designed for HS-20 loading and approved for use within NCDOT right of ways. All such appurtenances shall be installed flush to or below the surface of the ground in such a manner that they do not pose obstacles or obstructions to pedestrians, vehicles, equipment, or roadway maintenance operations.
53. All vaults, manholes and other appurtenances within the NCDOT right of way shall be located behind the ditch and at the right of way line. Manholes and/or vaults shall not be placed in the ditch line, side slopes of ditches or in the pavement.
54. Manholes/Valves should not be located in the pavement or shoulders of any State road. Exceptions may be made on roads at those locations where manholes/valves are essential parts of existing lines that are permitted to remain in place under existing and proposed roadways. Every effort should be made to minimize such installations and to avoid their location in wheel paths or at street intersections, insofar as practicable. Manholes should be designed and located in such a manner that will cause the least interference with roadway users, other utilities, and future highway expansion.
55. Locating tape or detection wire shall be installed with non-ferrous pipelines.
56. The encroaching party shall contact Justin Bullock, P.E., County Maintenance Engineer at (919) 724-3431 for inspection of forms or grade line prior to placing concrete for curb and gutter. A minimum of 24 hours notice is required for inspections.
57. A ¼ inch per foot pavement slope based on the existing centerline in tangent sections is required. In addition, a smooth transition must be maintained along areas of superelevation. The proposed widening may necessitate wedging or resurfacing one half of the existing roadway to accomplish this requirement. Widened areas less than 6 feet in width shall utilize a full depth asphalt pavement design. The minimum pavement design shall be:

<#> inches Asphalt Surface Course – <type>  
<#> inches Asphalt Binder Course – <type>  
<#> inches Aggregate Base Course

or

2 inches Asphalt Surface Course – 9.5  
4 inches Asphalt Binder Course – I19.0B  
5 inches Asphalt Base Course - 20.0B

In areas of existing or proposed curb and gutter, the minimum pavement design shall be:

3 inches Asphalt Surface Course – <type>  
4 inches Asphalt Binder Course – <type>  
5 inches Asphalt Base Course - <type>

58. Where an installation is by open cut, the pavement shall be neatly sawed or cut perpendicular to the surface. The replacement base and surface shall extend a minimum of one foot beyond the excavated opening on each side and shall be equivalent to the original base and pavement or the design as stated in the encroachment agreement, whichever is greater. The minimum pavement design for pavements on secondary roads shall be:

3 inches Asphalt Surface Course – S9.5B  
Flowable fill to within 3" of asphalt grade

59. All disturbed soil areas shall be promptly seeded and mulched. The encroaching party shall obtain the District Engineer's approval of ditch and shoulder grading prior to seeding and mulching.
60. All earth areas shall be regraded, seeded and mulched in accordance with Section 1660 of the latest version of the **NCDOT Standard Specifications for Roads and Structures**. Final determination of soil type shall be made by the Engineer. The following rates in pounds per acre apply:

- *YEAR ROUND MIXTURE (Sandy Soils)*
  - KY 31 Tall Fescue or Alta Tall Fescue – 50 pounds
  - Pensacola Bahiagrass – 50 pounds
  - Centipede – 5 pounds
  - Fertilizer (10-20-20 analysis) – 500 pounds
  - Limestone – 4000 pounds



- *YEAR ROUND MIXTURE (Clay Soils)*  
 KY 31 Tall Fescue or Alta Tall Fescue – 100 pounds  
 Kenblue Bluegrass – 15 pounds  
 Fertilizer (10-20-20 analysis) – 500 pounds  
 Limestone – 4000 pounds
  - Add 10 pounds of Kobe or Korean Lespedeza and 10 pounds of Millet to the above mixture from May 1 to August 31.
  - On cut and fill slopes 2:1 or steeper, add 30# Sericea Lespedeza from January 1 to December 31.
  - Fertilizer shall be 10-20-20 analysis. Upon written approval of the Engineer, a different analysis may be used provided the 1-2-2 ratio is maintained and the rate of application is adjusted to provide the same amount of plant food as a 10-20-20 analysis.
61. The encroaching party or any agent acting on behalf of the encroaching party shall exercise care and provide any and all necessary measures and precautions to preserve and protect existing landscaping and roadside plantings within the right of way. Existing landscaping and landscape plantings shall not be disturbed unless approved by the NCDOT Division 8 Roadside Environmental Engineer. All costs associated with restoration or replacement of landscaping or landscape plantings damaged or destroyed by the encroaching party or its agents shall be the responsibility of the encroaching party.
62. In the event it is determined that there is a conflict between the existing landscaping or landscape plantings and the proposed utility installation, the encroaching party or any agent acting on behalf of the encroaching party shall not proceed until the Division 8 Roadside Environmental Engineer has been notified and the conflict has been resolved to his satisfaction.
63. Upon completion of the work authorized under this agreement, the encroaching party shall notify the Division 8 Roadside Environmental Engineer for inspection of the work to verify that landscaping and landscape plantings are acceptable. No bonds shall be released until this requirement has been satisfied.
64. The Division 8 Roadside Environmental Engineer can be contacted as follows:
- Roadside Environmental Engineer  
 902 N. Sandhills Boulevard  
 P. O. Box 1067Aberdeen, NC 28315  
 (910-944-2344)
65. The area of proposed construction covered under this agreement lies within the limits of an NCDOT construction project and is subject to the following conditions:
- Relocation, modification, or adjustment of the proposed utility necessary for the construction of the NCDOT project shall be the responsibility of the Encroaching party and shall be done at no expense to the Department of Transportation upon notification by the Department.
  - The NCDOT project shall have priority over all others. Work performed under this agreement shall be performed either prior to the NCDOT operations, or after the NCDOT project is completed. If the work is performed prior to the NCDOT project, the encroaching party shall obtain written approval from the District Engineer to commence work within the project limits. No work permitted under this encroachment shall be performed during the period of the NCDOT project unless approved in writing by the District Engineer. NCDOT shall not be held liable for any delays to work proposed under the encroachment agreement.
  - Installations proposed within an NCDOT contract project shall be subject to approval by the contractor for the project. The encroaching party shall obtain a waiver in writing from the project contractor releasing NCDOT from liability for damages or delays and granting access within the project limits.
66. The encroaching party shall assume all responsibility, obligation, and liability for maintenance of the structure permitted under this encroachment agreement. This condition shall be conveyed in any future buy, lease, sell or rental agreement. In the event that the encroaching party or any future responsible party should fail to satisfy this condition, NCDOT reserves the right close or remove the structure.
67. The utility proposed under this agreement shall be placed at or near the existing right of way line at a location acceptable to the District Engineer.

68. The District Engineer will make a field inspection during construction to evaluate the need for guardrail. If the District Engineer determines that the location meets the current NCDOT warrants and criteria for the installation of guardrail, the encroaching party shall furnish and install guardrail at locations and as directed by the District Engineer.
69. The following minimum dimensions shall apply where the method of installation is directional drilling or boring:
- Depth below ground surface for parallel installations -4'
  - Depth below any ditch line -5'
  - Depth under Interstate and Controlled Access Facilities -15'
  - Depth under all other roadways -10'
70. Notify **Justin Bullock, P.E., County Maintenance Engineer, 1404 E Raleigh St, Siler City, NC 27344 (919) 724-3431**, prior to beginning work. The encroaching party shall provide the District Engineer with the following information at least 3 working days prior to commencing operations:
- Proposed schedule of operations
  - The name(s) and phone number(s) of project contact person(s).
  - Tentative locations where directional bores will commence and terminate.
71. All activities or operations approved under this agreement which fall within the project limits or contract period of any active NCDOT project shall require a waiver from the prime Contractor for the NCDOT project, granting the encroaching party access within the project and releasing NCDOT from claims against NCDOT by the prime Contractor resulting from the encroaching party's operations or activities. The NCDOT project shall have precedence and priority over all others.

Permit #19c1003

# LOCATION OF PROPERTY:

County Chatham Access to Route No SR 1700

Exact Distance 0.7 ☒ Miles ☐ Feet ☒ N ☐ S ☐ E ☐ W

From the Intersection of Route No SR 1700 and Route No SR 1714 Toward US 501

## N.C. DEPARTMENT OF TRANSPORTATION STREET AND DRIVEWAY ACCESS PERMIT APPLICATION

PROPERTY WILL BE USED FOR ☐ Special Commercial ☐ Regular Commercial ☒ Residential/Subdivision ☐ Other

PROPERTY ☐ is ☒ is not within        City Zoning Area

PROPERTY IS LOCATED IN ☒ Rural ☐ Urban Development Classification

### AGREEMENT

MAY 10 2016

I the undersigned property owner request access and permission to construct driveway(s) or street(s) on public right-of-way at the above location

I agree to construct and maintain driveway(s) or street entrance(s) in absolute conformance with the current 'Policy on Street and Driveway Access to North Carolina Highways' as adopted by the North Carolina Department of Transportation

I agree that no signs or objects will be placed on or over the public right-of-way

I agree that the driveway(s) or street(s) will be constructed as shown on the sketch on the reverse side (the attached plans)

I agree that that driveway(s) or street(s) as used in this agreement include any approach tapers, storage lanes or speed change lanes as deemed necessary

I agree that if any future improvements to the roadway become necessary the portion of driveway(s) or street(s) located on public right-of-way will be considered the property of the North Carolina Department of Transportation, and I will not be entitled to reimbursement or have any claim for present expenditures for driveway or street construction

I agree that this permit becomes void if construction of driveway(s) or street(s) is not completed within the time specified by the 'Policy on Street and Driveway Access to North Carolina Highways'

I agree to pay an installation fee for pipe installed by the Division of Highways or pay a \$50 inspection fee for installation by others. Make checks payable to NCDOT. The inspection fee will be reimbursed if application is denied.

I agree to construct and maintain the driveway(s) or street(s) in a safe manner so as not to interfere with or endanger the public travel

I agree to provide during construction proper signs, signal lights, flaggers and other warning devices for the protection of traffic in conformance with the current "Manual on Uniform Traffic Control Devices for Streets and Highways" and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained for the Division Engineer.

I agree to indemnify and save harmless the North Carolina Department of Transportation from all damages and claims for damage that may arise by reason of this construction

I agree that the North Carolina Department of Transportation will assume no responsibility for any damages that may be caused to such facilities, within the highway right-of-way limits, in carrying out its construction

I agree to provide a Performance Bond in the amount specified by the Division of Highways for any construction proposed on the State Highway system

I AGREE TO NOTIFY THE DISTRICT ENGINEER WHEN THE PROPOSED WORK BEGINS AND WHEN IT IS COMPLETED.

Entrance				Pipe		Inspection	INSTALLATION BY: <input type="checkbox"/> NCDOT <input type="checkbox"/> OTHERS		
Width(s)	Size	Length	Costs	Installation	Satisfactory		AMOUNT RECEIVED	Fifty	Dollars \$
1 20'	18"	50'	\$ 1,500						50.00
2			\$				SIGNATURE	(TITLE)	DATE
3			\$				INSPECTION BY NCDOT		
							SIGNATURE	(TITLE)	DATE

#### PROPERTY OWNER

NAME Chatham Capital, LLC (Sarah O'Brien member-manager)

SIGNATURE [Signature]

ADDRESS 400 Market Street  
Chapel Hill, NC Phone No 919-414-2047

#### WITNESS

NAME Rosemary Waldorf

SIGNATURE [Signature]

ADDRESS 400 Market Street  
Chapel Hill NC

#### APPLICANT

NAME Russell Briggs, P.E.

SIGNATURE [Signature]

ADDRESS 2805 Tobermory Lane  
Raleigh NC Phone No 919-618-0180

#### WITNESS

NAME Gwen Briggs

SIGNATURE [Signature]

ADDRESS 2805 Tobermory Lane  
Raleigh NC 27606

## APPROVALS

APPROVAL BY Local Governmental Authority (when required)

Renee J. Paoletti  
SIGNATURE

County manager  
TITLE

3/30/16  
DATE

APPLICATION RECEIVED BY DISTRICT ENGINEER

DocuSigned by:

Mark C. Johnson

E72EF753 R16100...  
SIGNATURE

5-21-2016

DATE

APPLICATION APPROVED BY DISTRICT ENGINEER

DocuSigned by:

Mark C. Johnson

E72EF753 R16100...  
SIGNATURE

5-21-2016

DATE

COMMENTS

SHOW

- 1 LOCATION OF DRIVEWAYS
- 2 DETAILS OF WORK, INCLUDING PIPES
- 3 EXISTING BUILDING, WALL, ETC OR DRIVEWAYS
- 4 PROPOSED BUILDING, WALL, ETC
- 5 HIGHWAY FEATURES

PROPOSED PLANS

DRAW OR SKETCH BELOW, OR ATTACH  
CONSTRUCTION PLANS FOR STREETS

INDICATE  
NORTH



PROJECT MANAGER	NAME
COMPANY	NAME
APPROVED BY:	NAME
ORIGINATING NAME	BASIC SOURCE METHOD

CHATHAM COUNTY  
NORTH CAROLINA

400 MARKET STREET  
CHAPEL HILL, NC 27516

DRAWING SCALE  
AS SHOWN

**COVER**  
**SHEET WINDER**

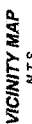
FINAL DRAWING - NOT  
RELIABLE FOR CONSTRUCTION.

[illegible]

**SHEET INDEX**

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4	TRANSVERSE
5	LONGITUDINAL
6	SECTIONAL ELEVATION
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100	SECTIONAL ELEVATION

was characterized by the fact that the majority of the respondents were women (80.3%), and the majority of the respondents were from the city (79.3%). The majority of the respondents were from the city (79.3%). The majority of the respondents were from the city (79.3%).

[illegible][illegible][illegible]

### CONSTRAINT NOTES

[illegible]

**GENERAL NOTES**

**2012 NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES - ROADWAY ENGLISH STANDARD DRAWINGS**

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., dated 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE	STD. NO.
260.02	Method of Clearing - Method II	976.01
225.02	Guide for Grading Subgrade - Secondary and Local	876.02
225.04	Method of Obtaining Super-elevation - Two Lane Pavement	876.04
225.06	Method of Grading Sight Distance at Inter-sections	1161.01
560.01	Method of Shoulder Construction	1161.02
	Paving Repairs	1161.11
838.01	Joint Proposals	1168.01
838.02	Concrete for Single and Double Pipe Culverts	1168.02
838.03	Notes for Reinforced Concrete Endwall	1150.01
840.14	Concrete Drop Inlet	1269.01
840.15	Brick Drop Inlet	1269.02
840.16	Drop Inlet Frame and Grates	1269.03
840.19	Concrete Grated Drop Inlet Type 'b'	1261.02
840.20	Frames and Wide Slot Flat Grates	1609.01
840.21	Grated Inlets	1607.01
852.02	Guardrail Installation	1622.01
852.03	Structural Anchor Units	

STD. NO.	TITLE
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class "B" Rip Rap
1180.01	New Zone Advance Warning Signs For Facilities < 55 MPH
1180.02	Temporary Lane Closures - 2-Lane, 2-Way Roadway, 1 Lane Closed
1180.03	Temporary Lane Closures - Lane Markings
1180.04	Traffic Control Sign Design Tables - Sign Spacing
1180.05	Stationary Work Zone Signs
1185.01	Cones
1185.02	Flagging Devices
1185.03	Advance Markings
1258.01	Advance Warning Signs for Road Workers
1258.02	Advance Warning Signs for Road Workers
1262.01	Guardrail & Barrier Rebuilders
1605.01	Temporary Silt Fence
1607.01	Gravel Construction Entrance
1622.01	Guide for Temporary Berms and Slope Drain
1630.02	Silt Basin Type B
1630.03	Temporary Silt Ditch
1630.04	Temporary Diversions
1631.01	Matting Installation
1631.02	Temporary Roadway Closing Type C
1633.02	Temporary Rock Silt Check Type B
1640.01	Coir Fiber Berms

EXISTING SURVEY NOTES:

1. ALL EASEMENTS ARE CENTERED ON EXISTING STRUCTURES UNLESS OTHERWISE NOTED.
2. AREAS COMPILED BY COORDINATE METHOD.
3. DISTANCES ARE HORIZONTAL. GROUND DISTANCES MEASURED ALONG SURVEY LINE.
4. THIS SURVEY DONE WITHOUT THE BENEFIT OF A TITLE AND IS SUBJECT TO ANY FACTS WHICH MAY BE DISCLOSED BY A FULL TITLE SEARCH.
5. ANY POINT NOTED AS "CONTROL CORNER" SHALL NOT BE DEEMED MORE OR LESS RELIABLE THAN ANY OTHER POINT SHOWN HEREON.
6. HAD 83 IN GRID COORDINATES AND MSL ELEVATIONS TAKEN FROM THE 1985 DATUM.
7. THESE MAP DOES NOT REPRESENT A BOUNDARY SURVEY AND CONFORMS TO NCES 472-30 STANDARDS.

**PROJECT NOTES:**

1. SAWCUT AND REMOVE EXISTING PAVEMENT (FULL DEPTH) TO PROVIDE STRAIGHT LATERAL AND LONGITUDINAL JOINTS TO TIE IN PROPOSED IMPROVEMENTS WHERE REQUIRED.
2. FOR DETAILS, REFERENCE LIST OF 2012 NCDOT ROADWAY STANDARD DRAWINGS.
3. MINIMUM CLEARANCE FROM CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE POINT OF TANGENCY.
4. WITHIN THE SIGHT TRIANGLE SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN LANE (2) FEET AND SIGN IN HEIGHT ABOVE THE CURB LINE ELEVATION OR THE NEAREST TRAVELED WAY, IF ANY, SHALL BE ALLOWED.
5. THE CONTRACTOR WILL COORDINATE WITH ALL EXISTING UTILITIES TO LOCATE AND MARK ALL UTILITIES PRIOR TO CONSTRUCTION. THE PROJECT MARK WAS NO IMPACT ON EXISTING FACILITIES.

[illegible]

MT. GILEAD ROADWAY SECTION  
FOR SYMMETRICAL TURN LANE WIDENING  
60.0' ROW

Diagram showing a symmetrical turn lane widening for a 60.0' ROW. The diagram includes a 12' PL Turn Lane, a 6.0' Shoulder, and a 3.0' PAVT. The widening is shown for a 100' Radius curve. The diagram is labeled "MT. GILEAD ROADWAY SECTION FOR SYMMETRICAL TURN LANE WIDENING 60.0' ROW".

MT. GILEAD ROADWAY SECTION  
FOR SYMMETRIC WIDENING TAPERS

Diagram showing a cross-section of a roadway with dimensions and labels:

- Left shoulder: 6.0' SHOULDER
- Left edge of travel lane: 3.0' E.S.V.
- Travel lane width: 7.5'
- Centerline label: VAR. P.W.T. VAR. P.W.C.
- Centerline slope: 2.1%
- Right edge of travel lane: 3.0' E.S.V.
- Right shoulder: 6.0' SHOULDER
- Dashed line indicating grade: GRADE TO THIS ONE
- Vertical arrows pointing up from the travel lanes are labeled (1), (2), (3), (4), (5), and (6).

PATIENT SCHEDULE	
C1	1. PAIN MEDICATION, 2. STRESS MANAGEMENT, 3. RELAXATION TECHNIQUES, 4. LIFE SKILLS, 5. COMMUNICATION SKILLS, 6. PROBLEM SOLVING, 7. DECISION MAKING, 8. EMOTIONAL SUPPORT, 9. SUPPORT GROUP, 10. FAMILY SUPPORT, 11. COMMUNITY SUPPORT, 12. PEER SUPPORT, 13. PROFESSIONAL SUPPORT, 14. SELF-HELP, 15. SELF-MONITORING, 16. SELF-ASSESSMENT, 17. SELF-REFLECTION, 18. SELF-ANALYSIS, 19. SELF-CORRECTION, 20. SELF-IMPROVEMENT, 21. SELF-DEVELOPMENT, 22. SELF-EDUCATION, 23. SELF-EMPLOYMENT, 24. SELF-ENTREPRENEURSHIP, 25. SELF-ORGANIZATION, 26. SELF-MANAGEMENT, 27. SELF-LEADERSHIP, 28. SELF-MOTIVATION, 29. SELF-DISCIPLINE, 30. SELF-CONTROL, 31. SELF-REGULATION, 32. SELF-MONITORING, 33. SELF-ASSESSMENT, 34. SELF-CORRECTION, 35. SELF-IMPROVEMENT, 36. SELF-DEVELOPMENT, 37. SELF-EDUCATION, 38. SELF-EMPLOYMENT, 39. SELF-ENTREPRENEURSHIP, 40. SELF-ORGANIZATION, 41. SELF-MANAGEMENT, 42. SELF-LEADERSHIP, 43. SELF-MOTIVATION, 44. SELF-DISCIPLINE, 45. SELF-CONTROL, 46. SELF-REGULATION, 47. 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### CONSTRUCTION SEQUENCE

## NOTES

NOTES  
1. REFER TO SHEET 001

GRAPHIC SCALE



SCM "A"

B&F  
CONSULTING  
INCORPORATED  
1000 W. 10TH STREET  
SUITE 100  
CHapel Hill, NC 27516  
Phone: 919.966.1111  
Fax: 919.966.1112  
www.bandf.com



REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR PERMIT

PROJECT INFORMATION	
PROJECT NUMBER	10000
PROJECT NAME	SUNSET GROVE SUBDIVISION PHASE 1
APPROVED BY	DATE
DRAWN BY	DATE

PROJECT NAME	
SUNSET GROVE SUBDIVISION PHASE 1	

CHATHAM COUNTY  
NORTH CAROLINA

DEVELOPER  
CHATHAM  
CAPITAL LLC

400 MARKET STREET  
CHAPEL HILL, NC 27516

SHEET NAME  
PLAN & PROFILE  
SUNSET GROVE RD

DRAWING SCALE  
1"=50'

PLAN SET  
INFRASTRUCTURE DRAWINGS

DATE  
4-25-2016

SHEET NUMBER  
PP-2

FOR DRAWING SET  
RELEASED FOR CONSTRUCTION

