

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

November 1, 2017

Lee Bowman Briar Chapel, LLC 1342 Briar Chapel Parkway Chapel Hill, NC 27516

SUBJECT: ENCROACHMENT AGREEMENT (E081-019-17-0177) Pavement widening and pavement marking improvements SR 1532 (Mann`s Chapel) Chatham County

Aten: Lee Bowman

Attached is a properly executed copy of a Right of Way Encroachment Agreement which covers the following:

Pavement widening and pavement marking improvements on Mann's Chapel Rd in Chatham County, and any associated pre-construction work.

This agreement is approved subject to the Special Provisions and plans which are attached to and made a part of the Encroachment Agreement. Any work associated with the subject project permitted under an NCDOT approved Driveway Permit shall be completed in accordance with this Encroachment Agreement.

Sincerely,

Brandon H. Jones, P.E. Division Engineer

Matthew kitchen, PE^{Dist Engineer} DocuSigned by:

By Matthew Kitchen, PE District Engineer

Attachments cc.: Justin Bullock., Chatham County Maintenance Engineer

Telephone: (336) 318-4000 Fax: (336) 318-4010 Customer Service: 1-877-368-4968

Website: www.ncdot.gov

ROUTE	SR 1532 (Mann's	PRC
	Chapel Road)	

and

OJECT Briar Chapel Development STATE OF NORTH CAROLINA COUNTY OF Chatham

RIGHT OF WAY ENCROACHMENT AGREEMENT FOR CURB AND GUTTER, PAVEMENT WIDENING AND STORM DRAINAGE

-AND-NNP – BRIAR CHAPEL, LLC 1342 BRIAR CHAPEL PKWY, CHAPEL HILL, NC 27516

DEPARTMENT OF TRANSPORTATION

THIS AGREEMENT, made and entered into this the _1___ day of _NOV , 20 _17___, by and between the Department of Transportation, party of the first part; NNP – BRIAR CHAPEL, LLC

party of the second part,

WITNESSETH

THAT WHEREAS, the party of the second part desires to encroach on the right of way of the public road designated as Route(s) <u>SR 1532 (Mann's Chapel Road)</u>, located <u>At the intersection of SR 1574 (Great Ridge</u> Parkway)

with the construction and/or erection Pavement widening and pavement marking improvements of:

WHEREAS, it is to the material advantage of the party of the second part to effect this encroachment, and the party of the first part in the exercise of authority conferred upon it by statute, is willing to permit the encroachment within the limits of the right of way as indicated, subject to the conditions of this agreement;

NOW, THEREFORE, IT IS AGREED that the party of the first part hereby grants to the party of the second part the right and privilege to make this encroachment as shown on attached plan sheet(s), specifications and special provisions which are made a part hereof upon the following conditions, to wit:

That the said party of the second part binds and obligates himself to install the encroaching facility in such safe and proper condition that it will not interfere with or endanger travel upon said highway.

That the party of the second part agrees to provide during construction proper signs, signal lights, flagmen and other warning devices for the protection of traffic in conformance with the latest <u>Manual on Uniform Traffic Control</u> <u>Devices for Streets and Highways</u> and Amendments or Supplements thereto. Information as to the above rules and regulations may be obtained from the Division Engineer of the party of the first part.

That the party of the second part hereby agrees to indemnify and save harmless the party of the first part from all damages and claims for damage that may arise by reason of the installation and maintenance of this encroachment.

It is clearly understood by the party of the second part that the party of the first part will assume no responsibility for any damage that may be caused to such facilities, within the highway rights of way limits, in carrying out its construction.

That the party of the second part agrees to restore all areas disturbed during construction to the satisfaction of the Division Engineer of the party of the first part. The party of the second part agrees to exercise every reasonable precaution during construction and maintenance to prevent eroding of soil; silting or pollution of rivers, streams, lakes, reservoirs, other water impoundments, ground surfaces or other property; or pollution of the air. There shall be compliance with applicable rules and regulations of the North Carolina Division of Environmental Management, North Carolina Sedimentation Control Commission, and with ordinances and regulations of various counties, municipalities and other official agencies relating to pollution prevention and control. When any construction operation disturbs the ground surface and existing ground cover, the party of the second part agrees to remove and replace the sod or otherwise reestablish the grass cover to meet the satisfaction of the Division Engineer of the party of the first part.

That the party of the second part agrees to assume the actual cost of any inspection of the work considered to be necessary by the Division Engineer of the party of the first part.

That the party of the second part agrees to have available at the encroaching site, at all times during construction, a copy of this agreement showing evidence of approval by the party of the first part. The party of the first part reserves the right to stop all work unless evidence of approval can be shown.

Provided the work contained in this agreement is being performed on a completed highway open to traffic; the party of the second part agrees to give written notice to the Division Engineer of the party of the first part when all work contained herein has been completed. Unless specifically requested by the party of the first part, written notice of completion of work on highway projects under construction will not be required.

That in the case of noncompliance with the terms of this agreement by the party of the second part, the party of the first part reserves the right to stop all work until the facility has been brought into compliance or removed from the right of way at no cost to the party of the first part.

That it is agreed by both parties that this agreement shall become void if actual construction of the work contemplated herein is not begun within one (1) year from the date of authorization by the party of the first part unless written waiver is secured by the party of the second part from the party of the first part.

R/W (161B) : Party of the Second Part certifies that this agreement is true and accurate copy of the form R/W (161B) incorporating all revisions to date.

IN WITNESS WHEREOF, each of the parties to this agreement has caused the same to be executed the day and vear first above written.

DEPA	RTMEN Signed to	RANSPORT	ATION		
D)/:	RTMENI 9190999 4 Mattuw District Fr	kitchen,	βĒ	Dist	Engineer
BA:	District Fa	gineer			

Newland Communities

BY: Du Boun

ATTEST OR WITNESS:

NNP -- BRIAR CHAPEL, LLC

Second Party

INSTRUCTIONS

When the applicant is a corporation or a municipality, this agreement must have the corporate seal and be attested by the corporation secretary or by the empowered city official, unless a waiver of corporate seal and attestation by the secretary or by the empowered City official is on file in the Raleigh office of the Manager of Right of Way. In the space provided in this agreement for execution, the name of the corporation or municipality shall be typed above the name, and title of all persons signing the agreement should be typed directly below their signature.

When the applicant is not a corporation, then his signature must be witnessed by one person. The address should be included in this agreement and the names of all persons signing the agreement should be typed directly below their signature.

This agreement must be accompanied, in the form of an attachment, by plans or drawings showing the following applicable information:

- All roadways and ramps. 1.
- Right of way lines and where applicable, the control of access lines. 2
- 3. Location of the proposed encroachment.
- Length and type of encroachment. 4.
- Location by highway survey station number. If station number cannot be obtained, location should be shown by distance from some identifiable point, such as a bridge, road, intersection, etc. (To assist in shown by distance from some identifiable point, such as a bridge, road, intersection, etc.) 5. preparation of the encroachment plan, the Department's roadway plans may be seen at the various Highway Division Offices, or at the Raleigh office.)
- Drainage structures or bridges if affected by encroachment. 6.
- Typical section indicating the pavement design and width, and the slopes, widths and details for either a curb and gutter or a shoulder and ditch section, whichever is applicable. 7.
- 8.
- Horizontal alignment indicating general curve data, where applicable. Vertical alignment indicated by percent grade, P.I. station and vertical curve length, where applicable. 9.
- Amount of material to be removed and/or placed on NCDOT right of way, if applicable. 10.
- 11.
- Cross-sections of all grading operations, indicating slope ratio and reference by station where applicable. All pertinent drainage structures proposed. Include all hydraulic data, pipe sizes, structure details and other 12. related information.
- Erosion and sediment control. 13.
- Any special provisions or specifications as to the performance of the work or the method of construction 14. that may be required by the Department must be shown on a separate sheet attached to encroachment agreement provided that such information cannot be shown on plans or drawings
- The Department's Division Engineer should be given notice by the applicant prior to actual starting of 15. installation included in this agreement.
- Method of handling traffic during construction where applicable. 16
- Scale of plans, north arrow, etc. 17.

ENCROACHMENT SPECIAL PROVISIONS Briar Chapel, LLC E081-019-17-0177 (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:
 - District Engineer
 300 DOT Drive
 Asheboro, N.C. 27205
 (336) 318-4000
- **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 <u>NCDOT Standard Specifications for Roads and Structures 2006</u>, the <u>NCDOT Roadway Standards Drawings</u>, and <u>NCDOT Policies and Procedures for Accommodating Utilities on Highway Rights of Way.</u>
- **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. Effective July 1, 2010, all flagging operation within NCDOT Right of Way require qualified and trained Work Zone Flaggers. Effective July 1, 2011, 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 question, contact our web site at http://www.ncdot.org/doh/preconstruct/wztc/WZTCTrainingProgram/default.html, or contact Joseph Ishak, P.E., Central WZTC Engineer with Central WZTC Region (Divisions 5, 7 9) at (919) 250-4159 ext. 217 or jishak@ncdot.gov.
- **9.** A **25,000**\$ 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** 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.

- **10.** A **25,000**\$ 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 # **E081-019-17-0177** 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 Easter, Memorial Day, Independence Day, and Labor Day.
- 20. No lane(s) of traffic shall be closed or restricted between the hours of <time>.
- **21.** 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.

- **22.** 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
- **23.** The Encroaching Party shall provide the District Engineer with "as-built" plans upon completion of the installation.
- **24.** 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.
- **25.** 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.
- **26.** The traveling public shall be warned of construction with complete and proper signing and traffic control devices in accordance with the current <u>Manual on Uniform Traffic Control Devices (MUTCD)</u>. 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.
 - 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.
- 27. 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 <u>NCDOT Roadway</u> <u>Standard Drawing and Standard Specifications for Roads and Structures</u> and Amendments or Supplements thereto. When there is no guidance provided in the Roadway Standard Drawings or Specifications, comply with the <u>Manual on Uniform Traffic Control Devices for Streets and Highways</u> and Amendments or Supplement thereto. Information as to the above rules and regulations may be obtained from the Division Engineer.
- **28.** 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.
- **29.** 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.
- **30.** 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.
- **31.** 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.
- **32.** 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.

- **33.** All pavement markings shall be thermoplastic and shall conform to the requirements of the <u>NCDOT Standard</u> <u>Specifications for Roads and Structures 2006</u>.
- **34.** 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.
- **35.** 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.
- **36.** 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.
- **37.** 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.
- **38.** 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.
- **39.** All backfill shall meet the Statewide Borrow Criteria and shall be placed in accordance with section 300-6 of <u>NCDOT Standard Specifications for Roads and Structures 2006</u>. 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.
- **40.** 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.
- **41.** 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 B concrete up to the outside diameter of the existing pipe.
- **42.** 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 <u>NCDOT Standard Specifications for Roads and Structures 2006.</u>

- 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.
- **43.** 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.
- **44.** 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.
- **45.** A ¹/₄ 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 installed per plans.
- **46.** 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.
- 47. All earth areas shall be regraded, seeded and mulched in accordance with Section 1660 of the <u>NCDOT</u>
 <u>Standard Specifications for Roads and Structures 2006</u>. 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.
- **48.** 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

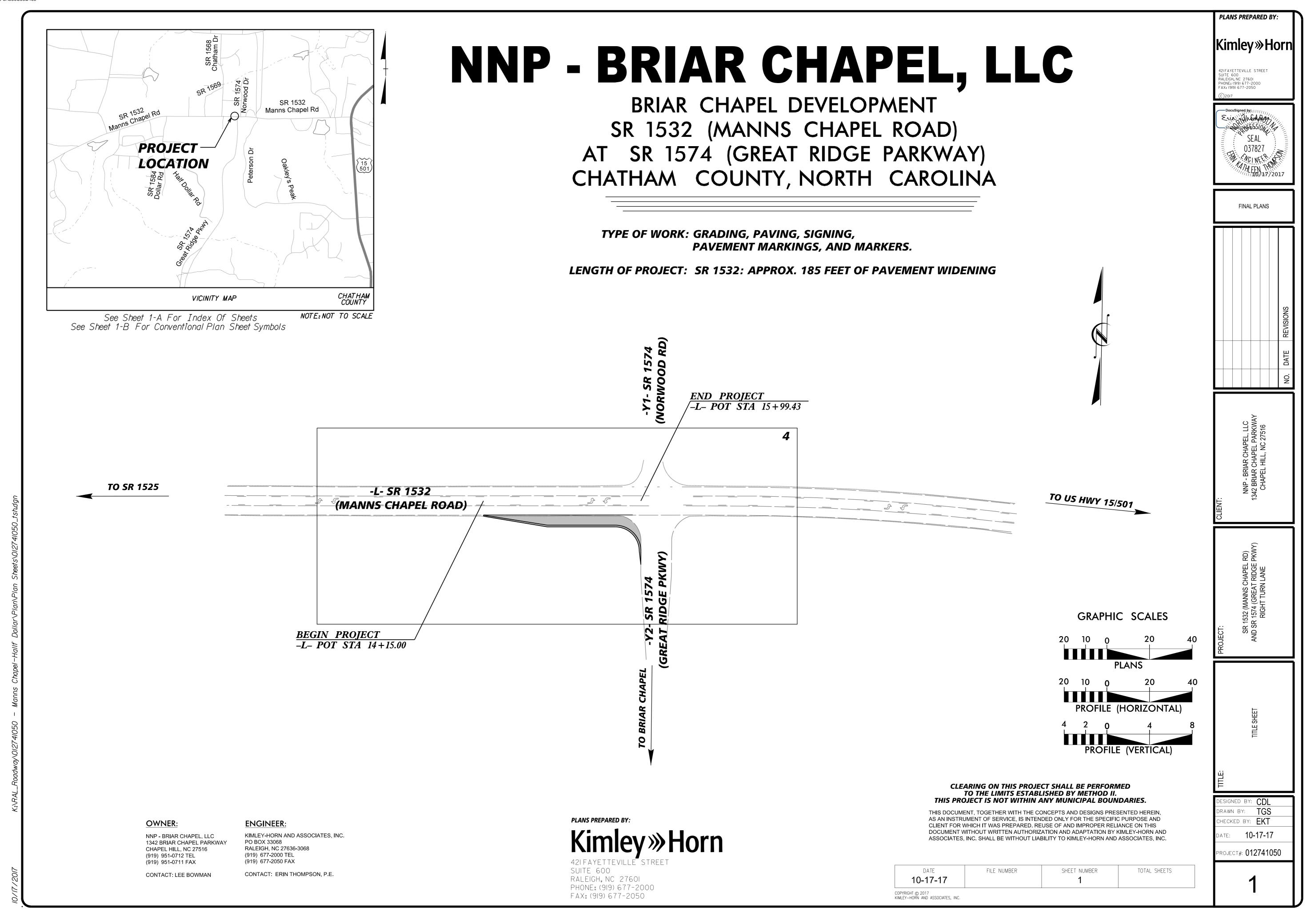
replacement of landscaping or landscape plantings damaged or destroyed by the encroaching party or its agents shall be the responsibility of the encroaching party.

- **49.** 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.
- **50.** 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.
- 51. 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)

- **52.** 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.
- **53.** 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.
- **54.** Any disturbed or damaged guardrail shall be reset in accordance with current NCDOT standards or as directed by the District Engineer.
- **55.** Notify **District Engineer** at **300 DOT Drive**, **Asheboro**, **NC 27205** (**336**) **318-4000**, 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). (See Special Provision 16)
 - Tentative locations where directional bores will commence and terminate.
- **56.** 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.
- **57.** Ingress and egress through the controlled access right of way is prohibited. No staging or queuing of vehicles or equipment within the Controlled Access Right of Way, travel lanes, or shoulders shall be permitted.

Kiml	ey»Ho	orn					3001 Weston Parkway Cary, North Carolina 27513
Transm	ittal						TEL 919 677 2000 FAX 919 677 2050
Date:	10-17	-2017			Job Numb	ər:	012741050
Project I	Name: US 1	5-501 Supe	rstreet				
To:	Justir	n Richardso	n				
	NCDO	OT District	1				
	300 D	OT Drive					
	PO B	ox 1164					
		boro, NC 27	7204		Telephone	No.	336-318-4003
We are	sending these	e bv					
	U.S. Mail	-	Fomittal via Email.	edEx			Hand Delivery
We are	sending you						
\bowtie	Attached	🗌 Ui	nder separate cover via				the following items:
	Shop drawing	, <u> </u>	rints/Plans		Specificat	ions	Change Orders
	Other Fin		pproval and Encroachment Per	mit App	nication		
Copies	Date	No.	Description				
1	10-17-17	1	Final Mann's Chapel Ri	ght-tui	n to Great	Ridge	e Plans
1	10-17-17	1	Encroachment Permit A	pplica	tion		
These a	re transmitted	l as checke	d below:				
	For your use		Approved as submitted		Resubmit	\boxtimes	Copies for approval
	As requested		Approved as noted		Submit		Copies for distribution
	For review and co	omment	Returned for corrections		Return		Corrected prints
the project	. These plans re kway associated	present the re	quired improvements along SF	R 1532 (Mann's Chap	el Roa	closed encroachment permit application for ad) at the intersection with SR 1574 (Great u have any questions or need additional
Thanks, I horn.com.	Erin Thompson -	Kimley-Horn -	3001 Weston Parkway - Cary,	, NC 27	513. Ph: (919)	677-2	2107 email: erin.thompson@kimley-
Copy to:	File, R. A	dams, L. Bowr	man, G. Browne	Signe	d:Erin T	homps	son, P.E.



IND	EX OF SHEETS
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
/-A	INDEX OF SHEETS,GENERAL NOTES,AN LIST OF STANDARDS
<i>I-B</i>	CONVENTIONAL SYMBOLS
2	TYPICAL SECTIONS, PAVEMENT SCHEDULE AND DETAILS
3 4	SUMMARY SHEETS PLAN AND PROFILE SHEETS
·	TRAFFIC CONTROL PLANS
PM-I	PAVEMENT MARKING SHEET
ERO-I ERO-2	EROSION CONTROL SHEET EROSION CONTROL DETAILS
UTL-I	EXISTING UTILITY PLAN
X-1	CROSS SECTION INDEX CROSS SECTIONS
GENERAL NOTES: QUALITY OF WORK:	GENERAL NOTES 2012 SPECIFICATIONS EFFECTIVE: 01-01-12
-	2012 SPECIFICATIONS EFFECTIVE: 01-01-12
QUALITY OF WORK: ALL WORK ON TH THE LATEST ED	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA
QUALITY OF WORK: ALL WORK ON TH THE LATEST EL DEPARTMENT OF AND SPECIFICAT	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA TRANSPORTATION (NCDOT) ROAD STANDARDS IONS,THE NORTH CAROLINA EROSION AND
QUALITY OF WORK: ALL WORK ON TH THE LATEST EL DEPARTMENT OF AND SPECIFICAT SEDIMENT CONTI AND SEDIMENT O	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA TRANSPORTATION (NCDOT) ROAD STANDARDS IONS,THE NORTH CAROLINA EROSION ROL HANDBOOK,THE NORTH CAROLINA EROSION CONTROL REGULATIONS,IN THE EVENT OF
QUALITY OF WORK: ALL WORK ON TH THE LATEST EL DEPARTMENT OF AND SPECIFICAT SEDIMENT CONTI AND SEDIMENT OF CONFLICT BETWE	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA TRANSPORTATION (NCDOT) ROAD STANDARDS IONS,THE NORTH CAROLINA EROSION AND ROL HANDBOOK,THE NORTH CAROLINA EROSION
QUALITY OF WORK: ALL WORK ON THE THE LATEST ED DEPARTMENT OF AND SPECIFICAT SEDIMENT CONT AND SEDIMENT OF CONFLICT BETWE SPECIFICATIONS,	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA F TRANSPORTATION (NCDOT) ROAD STANDARDS IONS,THE NORTH CAROLINA EROSION AND ROL HANDBOOK,THE NORTH CAROLINA EROSION CONTROL REGULATIONS,IN THE EVENT OF EEN ANY OF THESE STANDARDS,
QUALITY OF WORK: ALL WORK ON THE THE LATEST ED DEPARTMENT OF AND SPECIFICAT SEDIMENT CONTI AND SEDIMENT OF CONFLICT BETWE SPECIFICATIONS, GOVERN UNLESS	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA F TRANSPORTATION (NCDOT) ROAD STANDARDS IONS,THE NORTH CAROLINA EROSION AND ROL HANDBOOK,THE NORTH CAROLINA EROSION CONTROL REGULATIONS,IN THE EVENT OF EEN ANY OF THESE STANDARDS, OR PLANS,THE NCDOT GUIDELINES SHALL
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QUALITY OF WORK: ALL WORK ON THE THE LATEST EL DEPARTMENT OF AND SPECIFICAT SEDIMENT CONT AND SEDIMENT O CONFLICT BETWE SPECIFICATIONS GOVERN UNLESS ANY DISCREPANC SPECIFICATIONS OR AMBIGUITIES IMMEDIATELY REAL SHALL PROMPTLY AMBIGUITIES SHA STATEMENT OF WORK THE PROJECT C RIGHT TURN LAN	2012 SPECIFICATIONS EFFECTIVE: 01-01-12 HIS PROJECT SHALL CONFORM TO THESE PLANS, DITIONS OF THE NORTH CAROLINA TRANSPORTATION (NCDOT) ROAD STANDARDS IONS,THE NORTH CAROLINA EROSION AND ROL HANDBOOK,THE NORTH CAROLINA EROSION CONTROL REGULATIONS,IN THE EVENT OF EEN ANY OF THESE STANDARDS, OR PLANS,THE NCDOT GUIDELINES SHALL OTHERWISE NOTED IN THESE PLANS. HES FOUND BETWEEN THE DRAWINGS AND AND SITE CONDITIONS OR ANY INCONSISTENCIES IN DRAWINGS OR SPECIFICATIONS SHALL BE PORTED TO THE ENGINEER,IN WRITING,WHO ADDRESS SUCH INCONSISTENCIES OR RK DONE BY THE CONTRACTOR AFTER HIS SUCH DISCREPANCIES,INCONSISTENCIES,OR ALL BE DONE AT THE CONTRACTOR'S RISK.
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NNP - BRIAR CHAPEL, LLC

GENERAL NOTES CONTINUED

GENERAL NOTES:	2012 SPECIFICATIONS	
		EFFECTIVE: 01-01-12

GRADE LINE:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD.NO.560.01

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

LIST OF 2012 RC

ROAL DATE	FOLLON WAY DE D JANU CONSID	SIGN I ARY	I UNIT 2012 A	- N ARE	C DE APPL
	DIVISION 200.02 225.02 225.04		METHOD) OF FOR (GRADI
	DIV I SION 560 . 01	5 -	SUBGRA METHOD CURVE) OF	SHOU
	DIVISION 860.01	8 -	INCIDEN CONCRE		PIGHT -
	DIV ISION IIOI.01 IIOI.02 IIOI.04 IIOI.JI IIIO.01 IIIO.02 II30.01 II50.01		WORK Z TEMPOR TEMPOR	ONE PARY PARY C CON VARY LE W	ADV A LANE SHOUL IT ROL WORK
	DIV I SION 1205.01 1205.02 1205.05 1205.08 1250.01 1251.01	12 -	PAVEME PAVEME PAVEME PAVEME PAVEME RAISED RAISED	NT M NT M NT M NT M PAVE	IARKIN IARKIN IARKIN IARKIN EMENT

	PLANS PREPARED BY:		
	421 FAYETTEVILLE STREET SUITE 600 RALEIGH, NC 27601 PHONE: (919) 677-2000 FAX: (919) 677-2050 © 2017		
ROADWAY STANDARD DRAWINGS TANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" – C DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREIN OF THESE PLANS.	DocuSigned by: Evice HUNGARDON SEAL 037827 MCINE HUNGARDON		
CLEARING – METHOD II GRADING SUBGRADE – SECONDARY AND LOCAL OBTAINING SUPERELEVATION – TWO LANE PAVEMENT ASES AND SHOULDERS SHOULDER CONSTRUCTION – HIGH SIDE OF SUPERELEVATED	FINAL PLANS		
THOD I NGHT-OF-WAY MARKER TRAFFIC CONTROL ADVANCED WARNING SIGNS LANE CLOSURES SHOULDER CLOSURES ITROL DESIGN TABLES WORK ZONE SIGNS - MOUNTING HEIGHT & LATERAL CLEARANCE YORK ZONE SIGNS - MOUNTING HEIGHT & LATERAL CLEARANCE	NO. DATE REVISIONS		
VICES MARKINGS.MARKERS.AND DELINEATION MARKINGS – LINE TYPES AND OFFSETS MARKINGS – DIVIDED AND UNDIVIDED ROADWAYS MARKINGS – TURN LANES MARKINGS – SYMBOLS AND WORD MESSAGES EMENT MARKERS – INSTALLATION SPACING EMENT MARKERS – PERMANENT AND TEMPORARY	CLIENT: NNP - BRIAR CHAPEL, LLC 1342 BRIAR CHAPEL PARKWAY CHAPEL HILL, NC 27516		
	PROJECT: SR 1532 (MANNS CHAPEL RD) AND SR 1574 (GREAT RIDGE PKWY) RIGHT TURN LANE		
	TITLE: GENERAL NOTES		
	E DESIGNED BY: CDL DRAWN BY: TGS CHECKED BY: EKT DATE: 10-17-17 PROJECT#: 012741050 1–A		

State Line	
County Line	
Township Line	
City Line	
, Reservation Line	- <u> </u>
Property Line	
Existing Iron Pin	
	EIP
Property Corner	
Property Monument	ECM
Parcel/Sequence Number	- (123)
Existing Fence Line	xxx
Proposed Woven Wire Fence	- 0
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	- →
Existing Wetland Boundary	— — — WLB — — —
Proposed Wetland Boundary	wLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	——— ЕРВ ————
Existing Historic Property Boundary	нрв
Known Contamination Area: Soil	- X X
Potential Contamination Area: Soil	
Known Contamination Area: Water	- X X
Potential Contamination Area: Water	- $x x$
Contaminated Site: Known or Potential	XX XX
BUILDINGS AND OTHER CL	
Gas Pump Vent or U/G Tank Cap —	- 0
Sign	- ©
Well	- o
Small Mine	- 🛠
Foundation	-
Area Outline	
Cemetery	
Building	·
School	
Church	
Dam	
HYDROLOGY:	
Stream or Body of Water	
Hydro, Pool or Reservoir	·
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1 —
Buffer Zone 2	BZ 2 —
Flow Arrow	<u> </u>
Disappearing Stream	- > <u></u>
Spring	0
Wetland	
	- ¥
Proposed Lateral, Tail, Head Ditch —	$ \qquad \qquad$

BOUNDARIES AND PROPERTY:

RAILROADS:
Standard Gauge —
RR Signal Milepost –
Switch
RR Abandoned
RR Dismantled
RIGHT OF WAY:
Baseline Control Point
Existing Right of Way M
Existing Right of Way Li
Proposed Right of Way
Proposed Right of Way Iron Pin and Cap A
Proposed Right of Way Concrete or Granite
Proposed Control of Acc Concrete C/A Marke
Existing Control of Acce
Proposed Control of Acc
Existing Easement Line
Proposed Temporary Co
Proposed Temporary D
Proposed Permanent Dr
Proposed Permanent Dr
Proposed Permanent Ut
Proposed Temporary U
Proposed Aerial Utility I
Proposed Permanent Ea Iron Pin and Cap <i>I</i>
ROADS AND RE
Existing Edge of Pavem
Existing Curb ——
Proposed Slope Stakes
Proposed Slope Stakes
Proposed Curb Ramp
Existing Metal Guardrai
Proposed Guardrail
Existing Cable Guidera
Proposed Cable Guider
Equality Symbol –

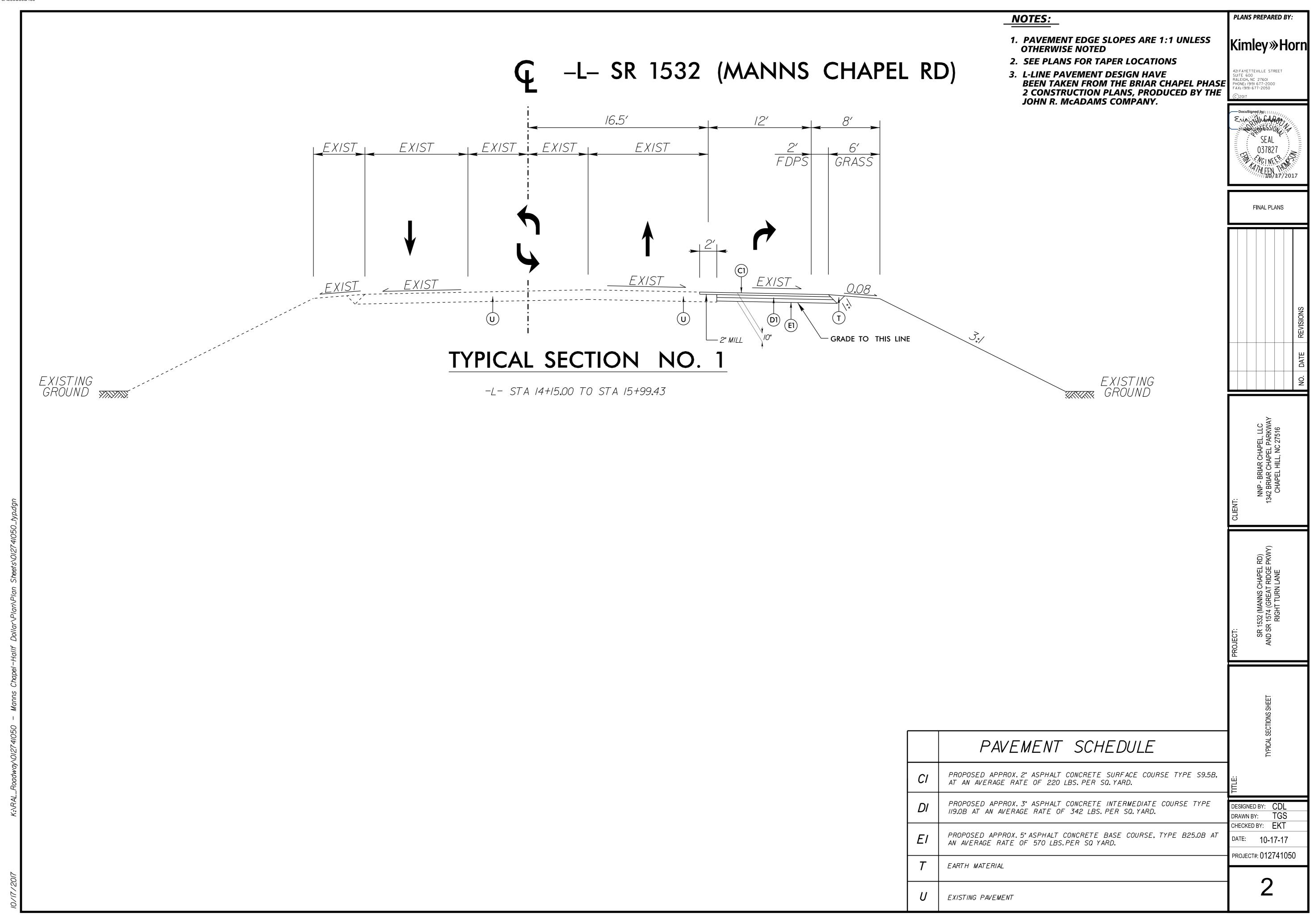
VEGETATION:				
Single Tree				
Single Shrub ——				
Hedge ———				
Woods Line				

Pavement Removal

		AN SHEET SYMBO	
DS: Note: Not to Sc	cale *S	.U.E. = Subsurface Utility Engineering	
uge	+++++++++ CSX TRANSPORTATION	Orchard	6 6 6 6
epost	MILEPOST 35	Vineyard	Vineyard
	SWITCH	EXISTING STRUCTURES:	
ed		MAJOR:	
ed		Bridge, Tunnel or Box Culvert	CONC
F WAY:		Bridge Wing Wall, Head Wall and End Wall) CONC WW
ntrol Point	•	MINOR:	
t of Way Marker	\bigtriangleup	Head and End Wall	CONC HW
t of Way Line		Pipe Culvert	
ht of Way Line		Footbridge	≻
ht of Way Line with		Drainage Box: Catch Basin, DI or JB ——	СВ
and Cap Marker		Paved Ditch Gutter	
ht of Way Line with or Granite R/W Marker		Storm Sewer Manhole	S
ntrol of Access Line with		Storm Sewer	s
C/A Marker		UTILITIES:	
rol of Access	(<u>A</u>)	POWER:	
ntrol of Access		Existing Power Pole	4
ment Line	— — E — —	Proposed Power Pole	4
mporary Construction Easement –	E	Existing Joint Use Pole	_ ↓
mporary Drainage Easement	TDE	Proposed Joint Use Pole	-¢-
manent Drainage Easement	PDE	Power Manhole	®
manent Drainage / Utility Easement	DUE	Power Line Tower	\boxtimes
manent Utility Easement	PUE	Power Transformer	
mporary Utility Easement	TUE	U/G Power Cable Hand Hole	
rial Utility Easement	AUE	H-Frame Pole	••
rmanent Easement with	\bigotimes	U/G Power Line LOS B (S.U.E.*)	— — — P— — —
and Cap Marker	\mathbf{V}	U/G Power Line LOS C (S.U.E.*)	P
AND RELATED FEATURES:		U/G Power Line LOS D (S.U.E.*)	P
e of Pavement			
		TELEPHONE:	
pe Stakes Cut	<u>C</u>	Existing Telephone Pole	-
pe Stakes Fill		Proposed Telephone Pole	-0-
rb Ramp	CR	Telephone Manhole	\bigcirc
I Guardrail ———		Telephone Pedestal	T
ardrail ———		Telephone Cell Tower	ب ه.
e Guiderail		U/G Telephone Cable Hand Hole	Нн
ble Guiderail		U/G Telephone Cable LOS B (S.U.E.*)	t
		U/G Telephone Cable LOS C (S.U.E.*)	T
noval ———		U/G Telephone Cable LOS D (S.U.E.*)	T
ION:	Δ	U/G Telephone Conduit LOS B (S.U.E.*)	— — — TC — — —
	හි	U/G Telephone Conduit LOS C (S.U.E.*)	TC
	\$	U/G Telephone Conduit LOS D (S.U.E.*)	TC
		U/G Fiber Optics Cable LOS B (S.U.E.*)	— — — — T FO — — —
		U/G Fiber Optics Cable LOS C (S.U.E.*)	—— — — T FO — — —
		U/G Fiber Optics Cable LOS D (S.U.E.*)	T F0

		PLANS PREPARED BY:
TER:		Kimley»Horn
ater Manhole	- 🛞	
ater Meter	- 0	421 FAYETTEVILLE STREET SUITE 600 RALEIGH, NC 27601 PHONE: (919) 677-2000
ater Valve	- ⊗	FAX: (9)9) 677-2000 FAX: (9)9) 677-2050
ater Hydrant		
G Water Line LOS B (S.U.E*)	w	- 31 Energing the SION
G Water Line LOS C (S.U.E*)	w	SEAL 5 037827
G Water Line LOS D (S.U.E*)	A/G Water	MCINER S
oove Ground Water Line		THEEN WAY 2017
' Pedestal	- C	FINAL PLANS
Tower	- 🛞	
G TV Cable Hand Hole	- H _H	
G TV Cable LOS B (S.U.E.*)	tv	
G TV Cable LOS C (S.U.E.*)	- <u> </u>	
G TV Cable LOS D (S.U.E.*)	Tv	
	— — — TV FO — — —	S S
G Fiber Optic Cable LOS C (S.U.E.*)	——————————————————————————————————————	REVISIONS
G Fiber Optic Cable LOS D (S.U.E.*)	TV FO	Sec. 1
S:		DATE
as Valve	- 🔷	ON
as Meter	- \$	
G Gas Line LOS B (S.U.E.*)	c	≻t
G Gas Line LOS C (S.U.E.*)	c	L, LLC ARKW/ 7516
G Gas Line LOS D (S.U.E.*)	c	HAPEI PEL PA
oove Ground Gas Line	A/G Gas	RIAR C R CHAR IL HILL
NITARY SEWER:		T: NNP - BRIAR CHAPEL, LLC 1342 BRIAR CHAPEL PARKWAY CHAPEL HILL, NC 27516
nitary Sewer Manhole	-	CLIENT: 13.
nitary Sewer Cleanout	- (†)	CL
G Sanitary Sewer Line	ss	
oove Ground Sanitary Sewer	A/G Sanitary Sewer	RD) PKWY)
Forced Main Line LOS B (S.U.E.*) —	- — — — FSS — — — -	APEL (IDGE ANE
Forced Main Line LOS C (S.U.E.*) —	FSS —	32 (MANNS CHAPE 1574 (GREAT RIDG RIGHT TURN LANE
Forced Main Line LOS D (S.U.E.*) —	FSS	: (MAN 74 (GF GHT T
		15 R
CELLANEOUS:		PROJECT: SR AND SI
ility Pole	- •	Ц
ility Pole with Base		
ility Located Object	- ⊙	
ility Traffic Signal Box	- 5	NAL
ility Unknown U/G Line LOS B (S.U.E.*)	?UTL	CONVENTIONAL SYMBOLS
G Tank; Water, Gas, Oil	-	CONV
nderground Storage Tank, Approx. Loc.		
G Tank; Water, Gas, Oil	-	TITLE:
eoenvironmental Boring	-	
G Test Hole LOS A (S.U.E.*)	-	DESIGNED BY: CDL DRAWN BY: TGS
oandoned According to Utility Records	AATUR	CHECKED BY: EKT
d of Information	E.O.I.	date: 10-17-17
		PROJECT#: 012741050

1-B



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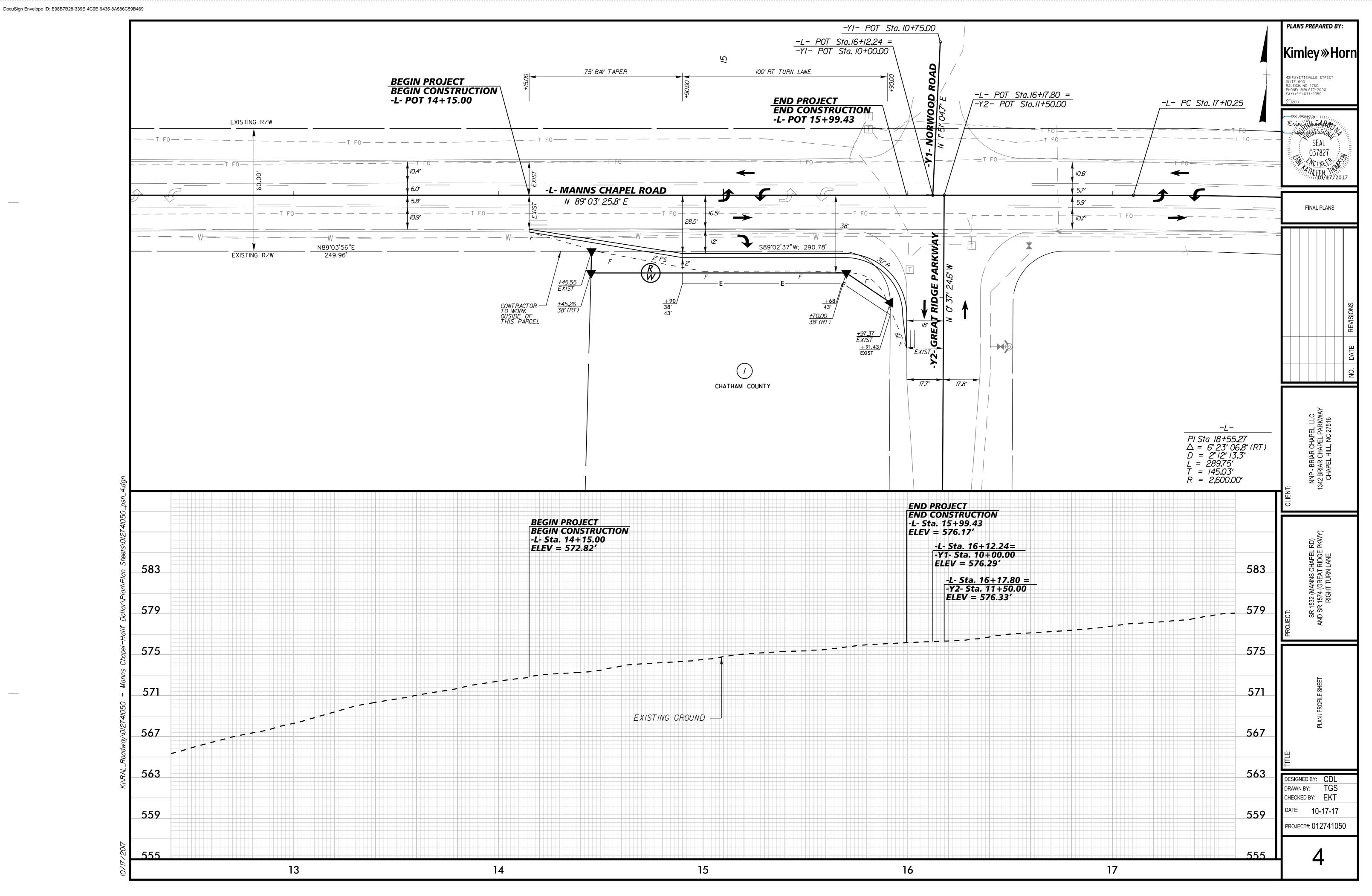
LOCATION	
-L-	
TOTALS	

SUMMARY OF EARTHWORK

IN CUBIC YARDS

1	STATION	STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + 20%	BORROW	WASTE
	14+15.00	15+99.43	72	0	5	0	67
			80			0	

PLANS	PREPARED BY:					
	Iey»Horn					
SUITE 600 RALEIGH, N PHONE: (91 FAX: (919) (C)2017	SUITE 600 RALEIGH, NC 2760I PHONE: (919) 677-2000 FAX: (919) 677-2050					
	SEAL 037827					
	FINAL PLANS					
	REVISIONS					
	NO. DATE					
CLIENT:	NNP - BRIAR CHAPEL, LLC 1342 BRIAR CHAPEL PARKWAY CHAPEL HILL, NC 27516					
PROJECT:	SR 1532 (MANNS CHAPEL RD) AND SR 1574 (GREAT RIDGE PKWY) RIGHT TURN LANE					
TITLE:	Summary of Earthwork Sheet Summary of Guardrail Sheet					
DESIGNE DRAWN CHECKEI DATE: PROJEC	BY: TGS					
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F) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR	
CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR	
G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO BY BARRIER OR GUARDRAIL.	
H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEARE DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED E	EST OPEN TRAV
I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN FACILITY, CLOSE THE LANE ACCORDING TO BY THE ENGINEER. AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.	. CONDUCT TH
J) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPE A TWO-LANE, TWO-WAY ROAD	
K) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHI IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSIT	
PAVEMENT EDGE DROP OFF REQUIREMENTS	
L) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION AN OPENED TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:	ON OF EXISTIN
BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WIT BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED	
M) DO NOT EXCEED A DIFFERENCE OF 1.5 INCHES IN ELEVATI ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN	ON BETWEEN O
SIGNING	
N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK I AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING	
WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THA ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER.	AN ONE WEEK,
0) PROVIDE PERMANENT SIGNING.	
P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO A	

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TRAFFIC NOTES

FIC CONTROL SHALL CONFORM TO THE LATEST MUTCD AND 2012 NCDOT STANDARDS

, TO MEET FIELD CONDITIONS TO PROVIDE N PHYSICAL DIMENSIONS IN THE AINABLE, OR RESULT IN DUPLICATE, OR NG, SUPPLEMENTING, COVERING OR

THE CONSTRUCTION PROJECT, EXCEPT

RESTRICTIONS 6 AM TO 9 AM AND FROM 4 PM TO 7 PM

AL EVENTS AS FOLLOWS:

RESTRICTIONS

RESTRICTIONS 6 AM TO 9 AM AND FROM 4 PM TO 7 PM

ATION 6 AM TO 9 AM AND FROM 4 PM TO 7 PM

FFIC OF AN OPEN TRAVELWAY UNLESS IRECTED BY THE ENGINEER.

ING PERFORMED BEHIND THE LANE D BY THE ENGINEER.

N OPEN TRAVEL LANE, CLOSE THE JNLESS THE WORK AREA IS PROTECTED

DJACENT TO AN UNDIVIDED FACILITY AVEL LANE USING ROADWAY STANDARD DR GUARDRAIL.

TRAVEL OF AN UNDIVIDED OR DIVIDED THE WORK SO THAT ALL PERSONNEL

Y, WITHIN THE SAME LOCATION, ON

THE EDGE OF TRAVELWAY WHEN WORK THE TRAVELWAY.

ING PAVEMENT IN AREAS ADJACENT TO

PEED LIMITS LESS THAN 45 MPH. INEER.

OPEN LANES OF TRAFFIC. INSTALL THE UNEVEN AREA.

OO FT FROM THE EDGE OF TRAVEL LANE CTION.

, REMOVE OR COVER ALL ADVANCE WORK

Y TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

Q) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.

R) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 300 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

PAVEMENT MARKINGS AND MARKERS

S) INSTALL PAVEMENT MARKINGS AS SHOWN ON PLAN SHEETS.

T) REFER TO SECTION 1205 OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES DATED JANUARY 2012 FOR APPLICATION TIMES AND TEMPERATURE CONDITIONS FOR PAVEMENT MARKINGS.

U) PLACE AT LEAST TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

W) REPLACE ANY PAVEMENT MARKINGS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.

X) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

Y) CONTRACTOR SHALL MAINTAIN ALL TEMPORARY PAINT PAVEMENT MARKINGS UNTIL COMPLETION OF THERMOPLASTIC PAVEMENT MARKING INSTALLATION.

Z) BEFORE SHIFTING TRAFFIC TO NEW LOCATIONS, CONTRACTOR SHALL REMOVE ANY MARKINGS WHICH CONFLICT WITH THE NEW TRAFFIC PATTERN(S).

PEDESTRIAN AND BICYCLIST SAFETY

AA) PEDESTRIAN AND BICYCLIST SAFETY MUST BE MAINTAINED AT ALL TIMES BY ADEQUATE PROJECT LIMITS, FENCING, AND SIGNAGE.

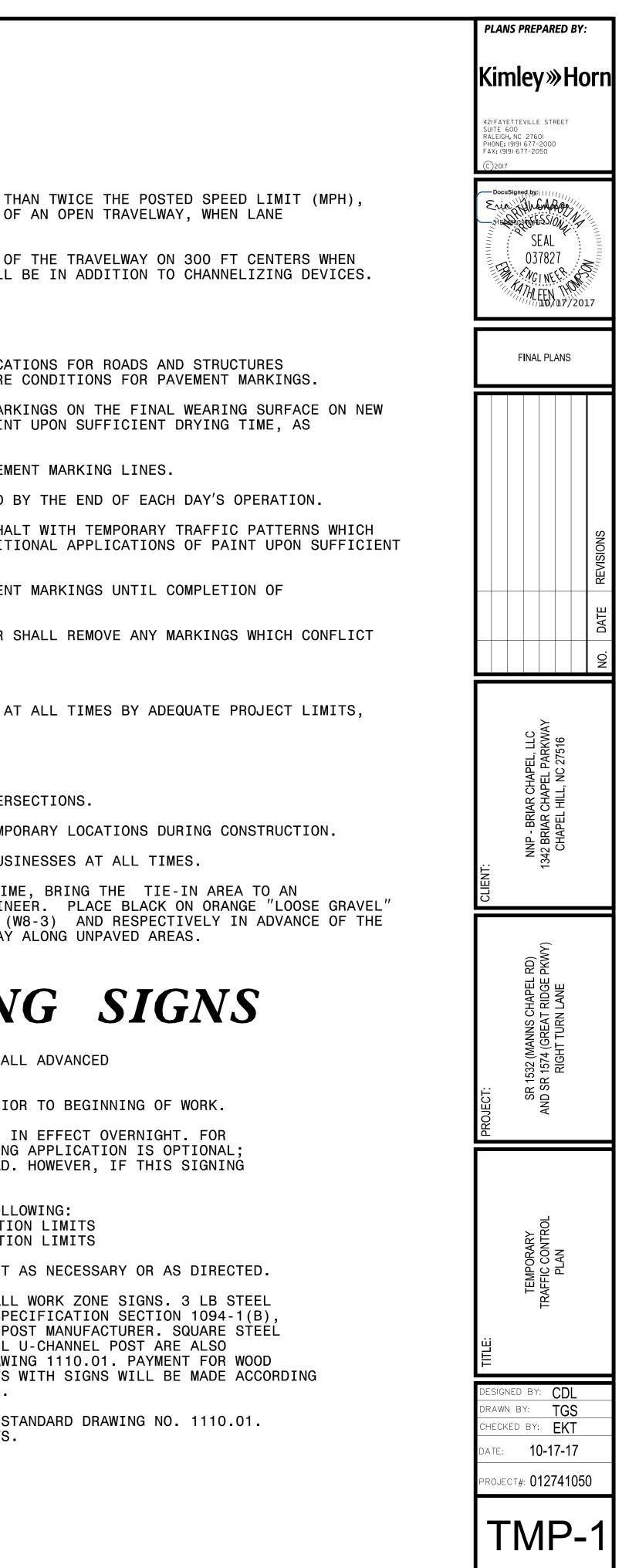
MISCELLANEOUS

- BB) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH INTERSECTIONS.
- CC) STOCKPILE EXISTING SIGNS FOR USE WHEN NEEDED IN TEMPORARY LOCATIONS DURING CONSTRUCTION.
- DD) ACCESS SHALL BE MAINTAINED TO ALL RESIDENCES AND BUSINESSES AT ALL TIMES.

EE) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) AND RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

ADVANCE WARNING SIGNS

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ADVANCE WARNING SIGN SPACING IS RECOMMENDED TO BE THE FOLLOWING:
 SR 1532 MANNS CHAPEL ROAD 500' BEFORE CONSTRUCTION LIMITS
 SR 1574 GREAT RIDGE PARKWAY 500' BEFORE CONSTRUCTION LIMITS
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3 LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3 LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3 LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.



SR 1532 MANNS CHAPEL ROAD

PHASING NOTES

STEP 1

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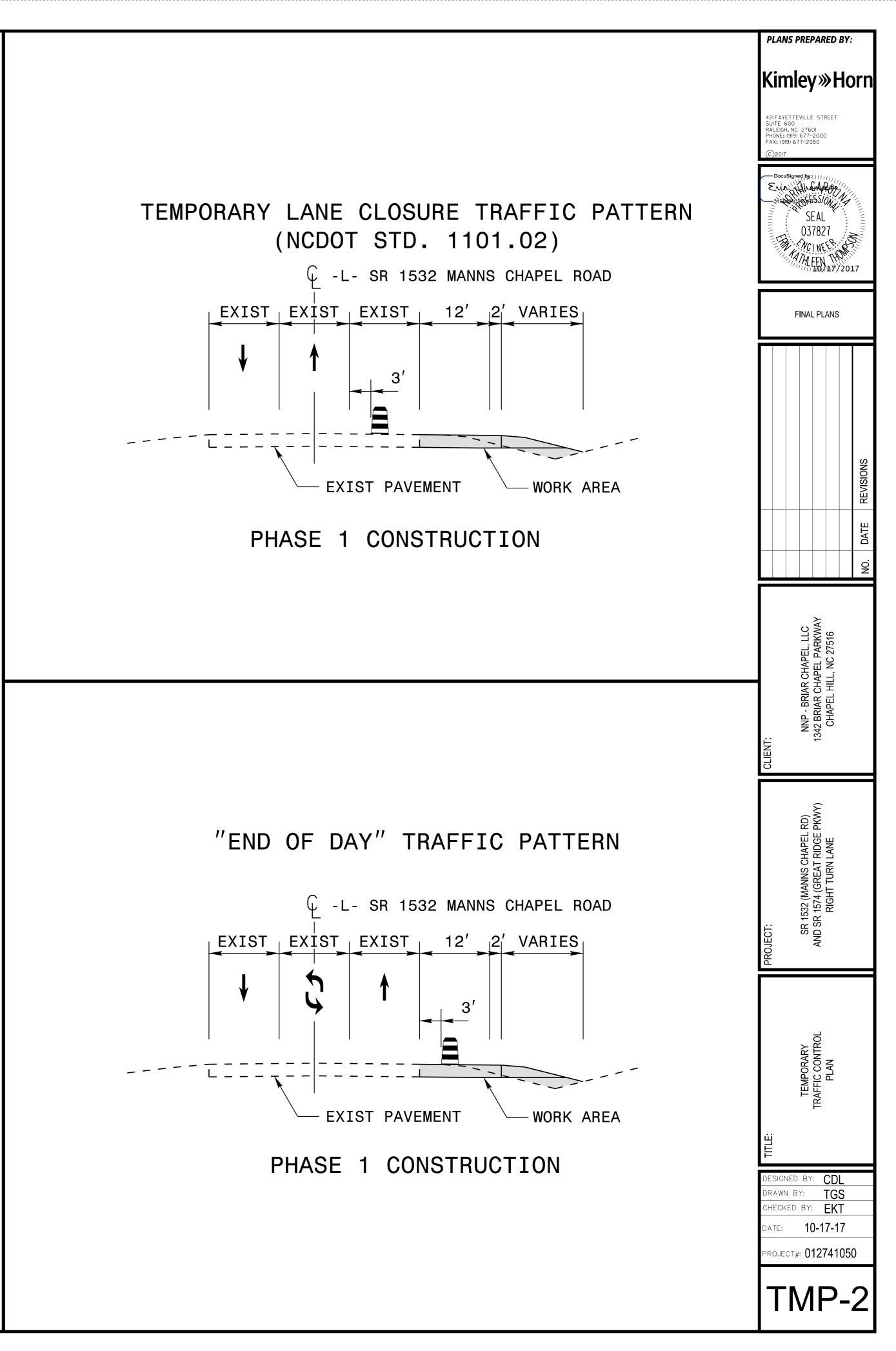
THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS PRIOR TO BEGINNING WORK ACCORDING TO NCDOT STANDARD DRAWING NO. 1101.01. SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

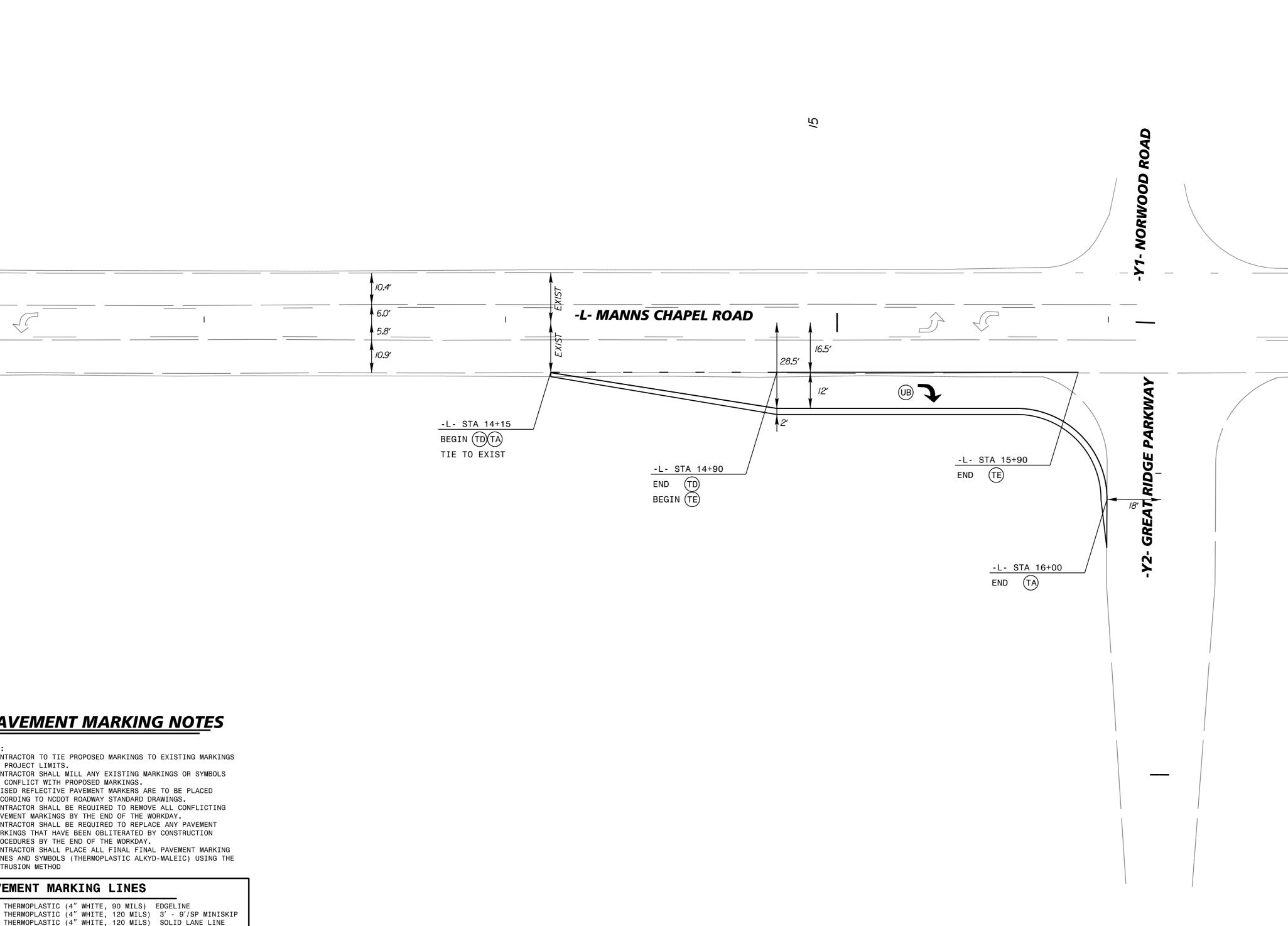
WHILE MAINTAINING EXISTING TRAFFIC AND USING NCDOT STANDARD DRAWING 1101.02 FOR TEMPORARY LANE CLOSURES AS NEEDED, THE CONTRACTOR SHALL CONSTRUCT PROPOSED IMPROVEMENTS ON THE SOUTH SIDE OF SR 1532 MANNS CHAPEL RD INCLUDING MILLING, PAVEMENT WIDENING, AND SHOULDER GRADING/PAVING, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE PAVEMENT.

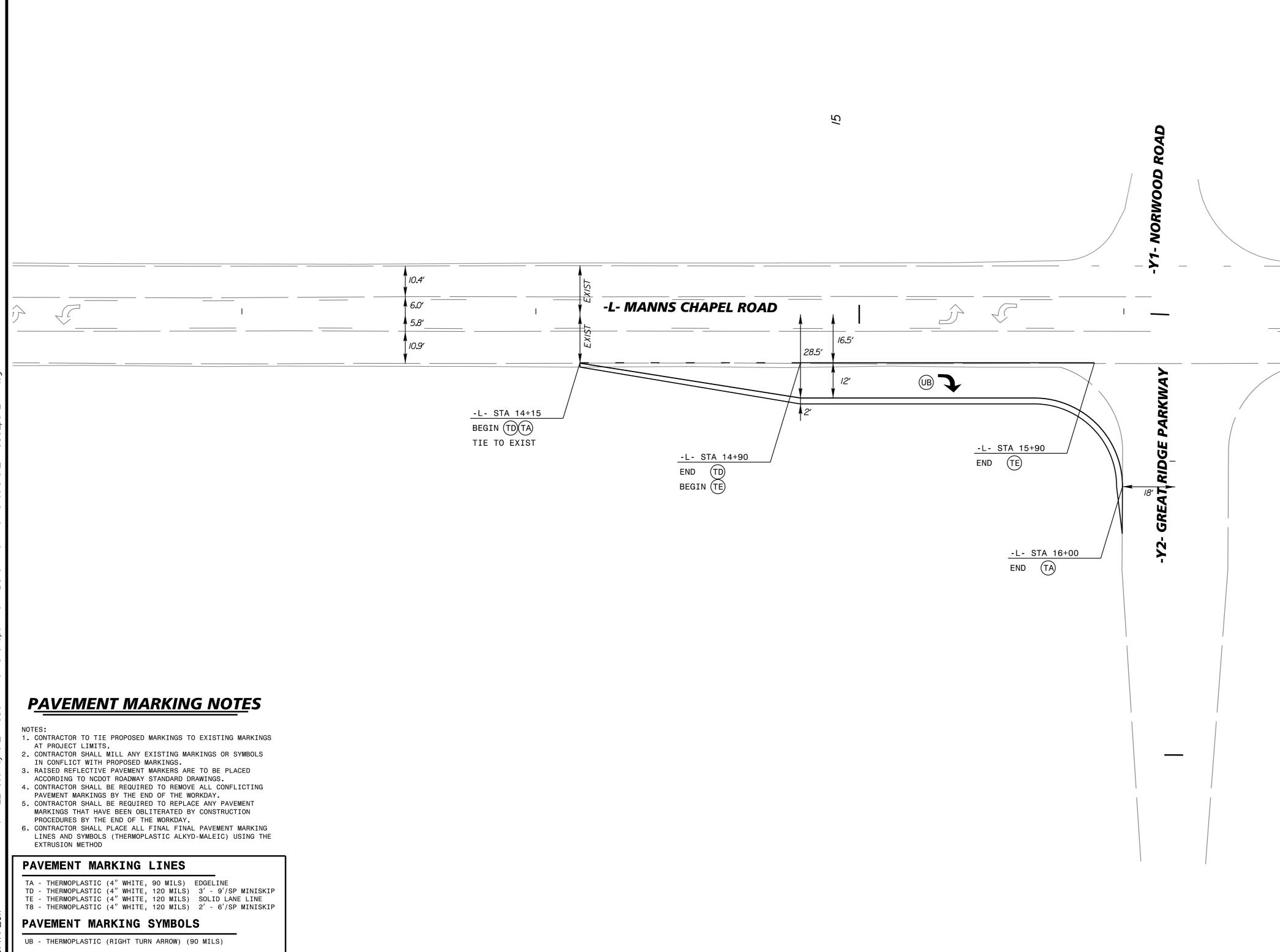
STEP 2

WHILE MAINTAINING EXISTING TRAFFIC AND USING NCDOT STANDARD DRAWING 1101.02 FOR TEMPORARY LANE CLOSURES AS NEEDED, THE CONTRACTOR SHALL INSTALL THE FINAL ASPHALT SURFACE COURSE, FINAL PAVEMENT MARKINGS, PLACE TRAFFIC ONTO FINAL PATTERN, AND REMOVE ALL TRAFFIC CONTROL DEVICES AND SIGNAGE.

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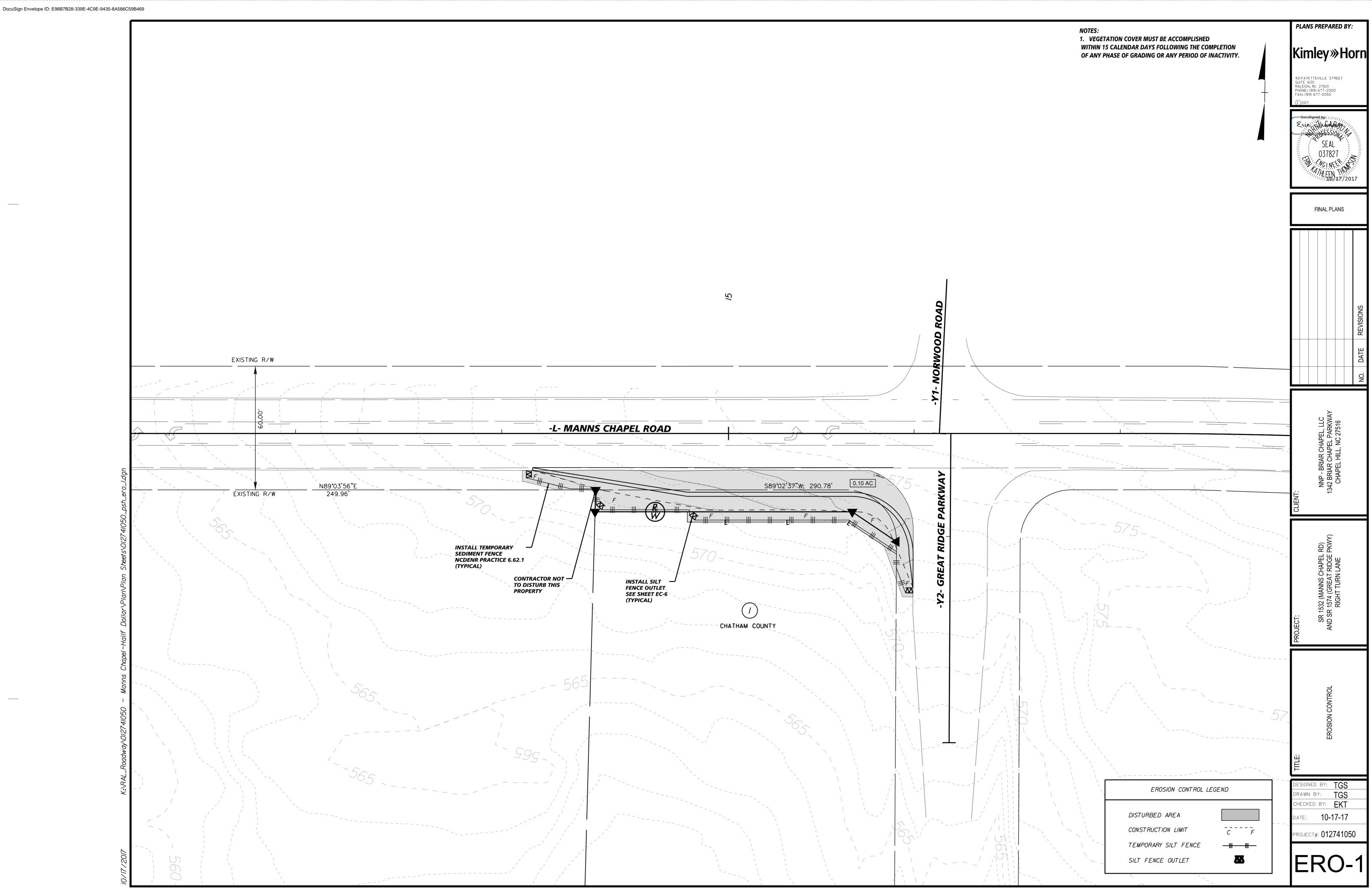


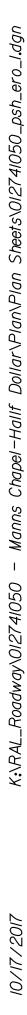




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	PLANS PREPARED BY: Kimley & Horn 421FAYETTEVILLE STREET SUITE 600 RALEIGH, NC 27601 PHONE: (919) 677-2000 FAX: (919) 677-2050 (C) 2017 DocuSigned (NY:111111111111111111111111111111111111	
	FINAL PLANS	
	NO. DATE REVISIONS	
10.6' 5.7' 5.9' 10.7'	CLIENT: NNP - BRIAR CHAPEL, LLC 1342 BRIAR CHAPEL PARKWAY CHAPEL HILL, NC 27516	
	PROJECT: SR 1532 (MANNS CHAPEL RD) AND SR 1574 (GREAT RIDGE PKWY) RIGHT TURN LANE	
	TITLE: PAVEMENT MARKING	
	DESIGNED BY: TGS DRAWN BY: TGS CHECKED BY: EKT DATE: 10-17-17 PROJECT#: 012741050 PNJ-1	



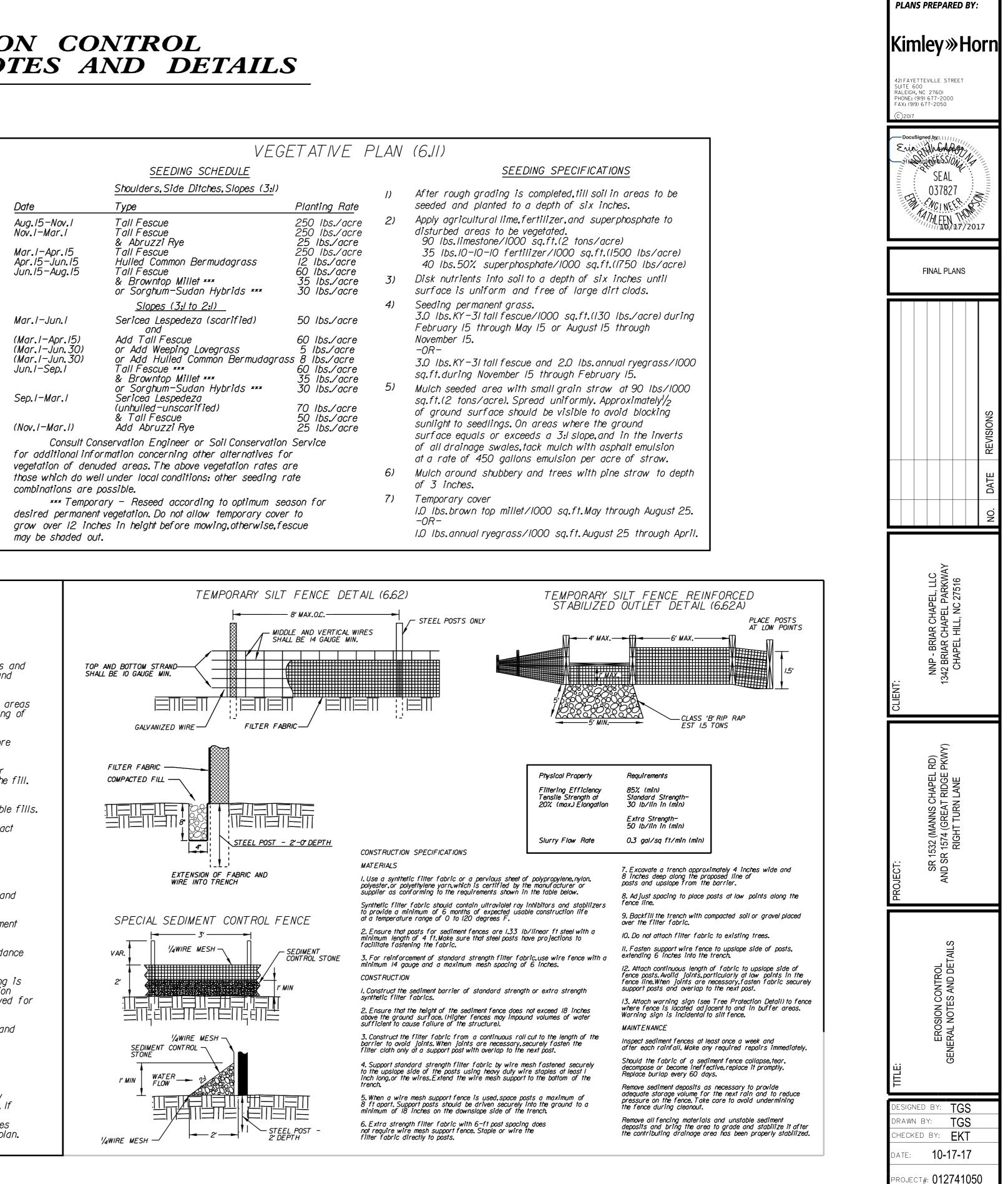


CONSTRUCTION SCHEDULE	MA
 CONSTRUCTION SPECIFICATIONS I. Obtain plan approval and other applicable permits including grading permits for borrow site. Refer to Section 230 "Borrow Excavation" in the 2012 NCDOT Standard Specifications. 2. Flag the work limits for protection. 3. Hold preconstruction conference at least one week prior to starting construction. 4. Prior to any land disturbing (including demolition) activities, install gravel and rip rap basin, temporary diversion, fabric/block and gravel drop inlet protection, temporary gravel construction entrance/exits, check dams, tree protection fence, and silt fence as shown on the erosion control plans. 5. In accordance with the erosion control plans and traffic control plans: grade roadway, install storm drain system, and place inlet protection at end of day or onset of rain. Place outlet protection as shown on plans. Place additional check dams and stabilized ditches as indicated. Modify silt fence placement around pipe intlets and outlets as necessary, place silt fence around top of proposed headwalls. 6. Complete final grading for roads and stabilize with gravel. 7. Finish drainage inlets, place curb and gutter and pavement, and build shoulders. 	 The Contractor success control practices runoff producin week. Any needed Contractor to me National Pollutar general stormwa on site. The rain by the contractor inch of rainfall The Contractor strap when stora filled. Gravel wi sediment pool no The Contractor strap when stora fence when it be fence. Silt fence to maintain a be fence. Silt fence mulch all seeded vegetative plant cover. The Contractor strap when areas phase of gradin all disturbed ar
 vegetate, seed and mulch. 9. Plant or otherwise provide a permanent ground cover sufficient to restrain erosion after completion of any phase of construction or development. Except when a shorter timeframe is applicable pursuant to section 16(a)(3) or Section 6 of the 'Chatham County Soil Erosion and Sedimentation Control Ordinance', provisions for a ground cover sufficient to restrain erosion must be accomplished within 15 calendar days following completion of any phase of grading or any period of inactivity, regardless of weather conditions, weekends, holidays, equiptment malfuntion and/or any extenuating circumstance. 10. After seeding is established, the contractor shall call NCDENR and arrange for a final site inspection. Upon approval, all temporary erosion control measures shall be removed from the project. 11. All erosion and sediment control practices will be inspected weekly and after rainfall events. Needed repairs will be made immediately. 12. Estimated time before final stabilization is 12 months. 13. Site includes approximately 0.05 acre of permanent vegetation area. 14. After site is stabilized, gravel and rip rap basin, temporary diversion, and construction staging and material area stockpile areas, shall be removed, restored as existing, and permanently vegetated as described in the maintenance and vegetative plan. 	CONSTRUCTION I. Construct and measures in ad construction so 2. Remove good to be graded of all critical area 3. Scarify area placing topsoil. 4. Clear and gu other objection 5. Ensure that building debris 6. Place all fill the layers as n related problem 7. Do not incorp materials into 8. Do not place slippage. 9. Keep diversi during all phas 10. Handle seep with approved

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EROSION CONTROL GENERAL NOTES AND DETAILS

VEGETATIVE PLAN (6.11) ENANCE PLAN SEEDING SCHEDULE ck all erosion and sediment Shoulders, Side Ditches, Slopes (3:1) tability and operation following every 1) Туре Planting Rate fall but in no case less than once every Date 250 Ibs./acre 250 Ibs./acre 2) 'rs will be made immediately by the Aug.15-Nov.1 Tall Fescue Nov.1-Mar.1 Tall Fescue all practices as designed. Also per & Abruzzi Rye 25 Ibs./acre Mar.1–Apr.15 Apr.15–Jun.15 Jun.15–Aug.15 harge Elimination System (NPDES) Tall Fescue 250 Ibs./acre Hulled Common Bermudagrass 12 Ibs./acre mit, a rain gauge must be installed Tall Fescue 60 Ibs./acre must be kept onsite and inspections 3) & Browntop Millet *** 35 Ibs./acre 30 Ibs./acre or Sorghum-Sudan Hybrids *** be made and logged after every half 4) Slopes (3;1 to 2:1) nce a week. 50 Ibs./acre Mar.I-Jun.I Sericea Lespedeza (scarified) move sediment from sediment and acity has been approximately 50% (Mar.1-Apr.15) Add Tall Fescue 60 Ibs./acre November 15. (Mar.1–Jun.30) (Mar.1–Jun.30) or Add Weeping Lovegrass or Add Hulled Common Bermudagrass 5 Ibs./acre -0Reaned or replaced when the B Ibs./acre drains properly. Tall Fescue *** Jun.I-Sep.I 60 Ibs./acre & Browntop Millet *** 35 Ibs./acre move sediment from behind silt or Sorghum–Sudan Hybrids *** -5) 30 Ibs./acre 0.5 feet deep at the Sep.I-Mar.I Sericea Lespedeza (unhulled-unscarified) 70 Ibs./acre e repaired as necessary & Tall Fescue 50 Ibs./acre Add Abruzzi Rye 25 Ibs./acre (Nov.1-Mar.1) rtilize, reseed as necessary, and Consult Conservation Engineer or Soil Conservation Service according to specifications in the for additional information concerning other alternatives for vegetation of denuded areas. The above vegetation rates are tain a vigorous, dense vegetative 6) those which do well under local conditions: other seeding rate of 3 inches. combinations are possible. ovide ground cover on exposed slopes 7) Temporary cover *** Temporary - Reseed according to optimum season for 21 calendar days of completion of any desired permanent vegetation. Do not allow temporary cover to -ORnanent ground cover is to be provided for grow over 12 inches in height before mowing, otherwise, fescue



thin 21 calendar days or sooner following tion or development.

LAND GRADING (6.02)

CIFICATIONS

ain all erosion and sedimentation control practices and nce with the approved sedimentation control plan and

I, as determined by a Geotechnical Engineer from areas ed,and preserve it for use in finishing the grading of

topsoiled to a minimum depth of 2 inches before

eas to be filled to remove trees,vegetation,roots,or aterial that would affect the planned stability of the fill. terial is free of brush,rubbish,rocks,logs,stumps, ther materials inappropriate for constructing stable fills.

ers not to exceed 9 inches in thickness,and compact to reduce erosion, slippage, settlement, or other

frozen material or soft or highly compressible Des.

a frozen foundation, due to possible subsidence and

d other water conveyance measures free of sediment development.

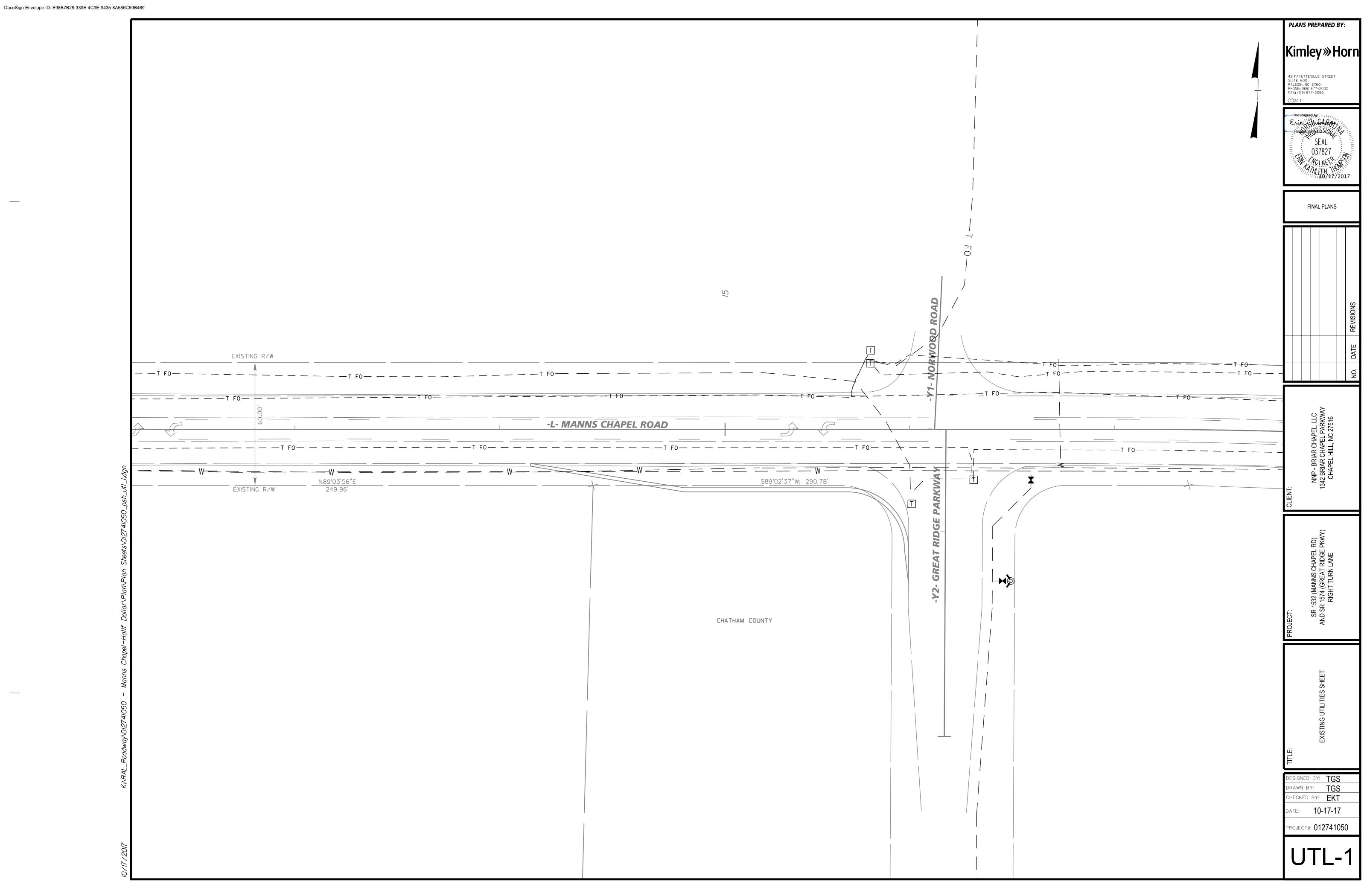
prings encountered during construction in accordance

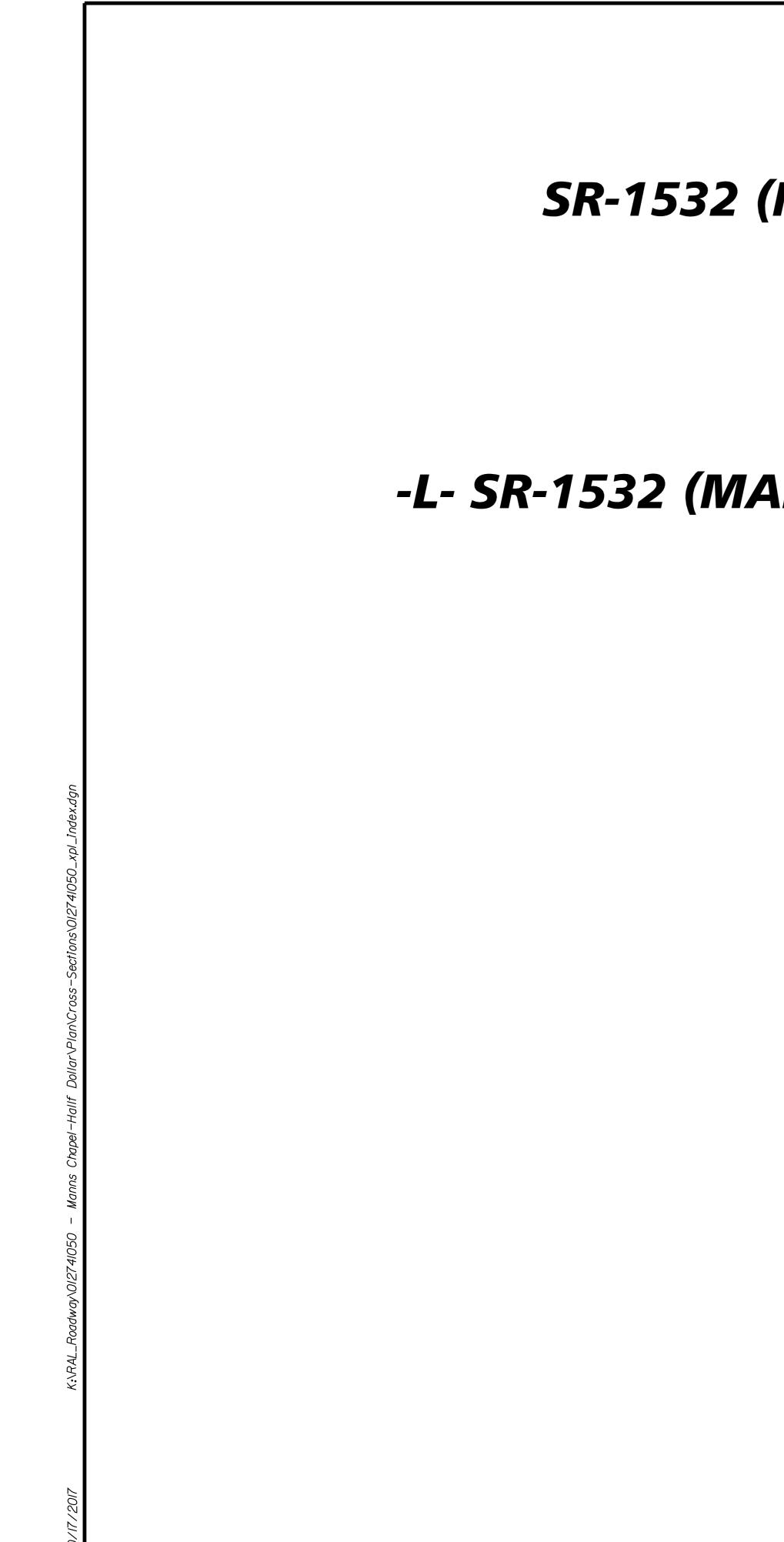
ze all graded areas immediately after final grading is ea in the grading plan. Apply temporary stabilization ed areas when work is to be interrupted or delayed for onger.

piles, borrow areas, and spoil areas on the plans, and dequately protected from erosion. Include final areas in the plan.

graded areas and the supporting erosion and practices, especially after heavy rainfalls. Promptly om diversion and other water-disposal practices. If occur, repair them immediately. Prompt maintenance of small eroded areas before they become significant gullies is an essential part of an effective erosion and sedimentation control plan.

ERO-2



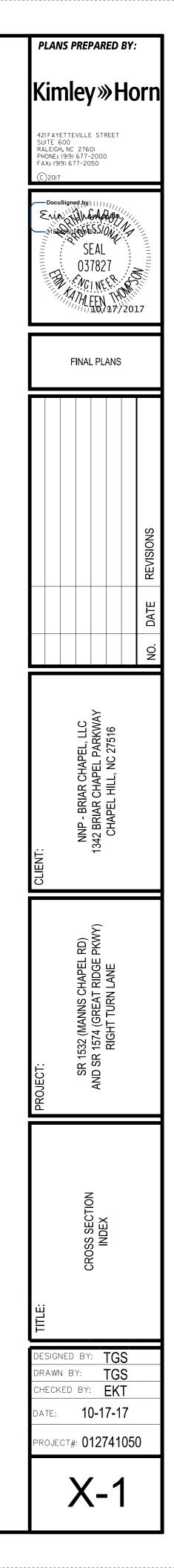


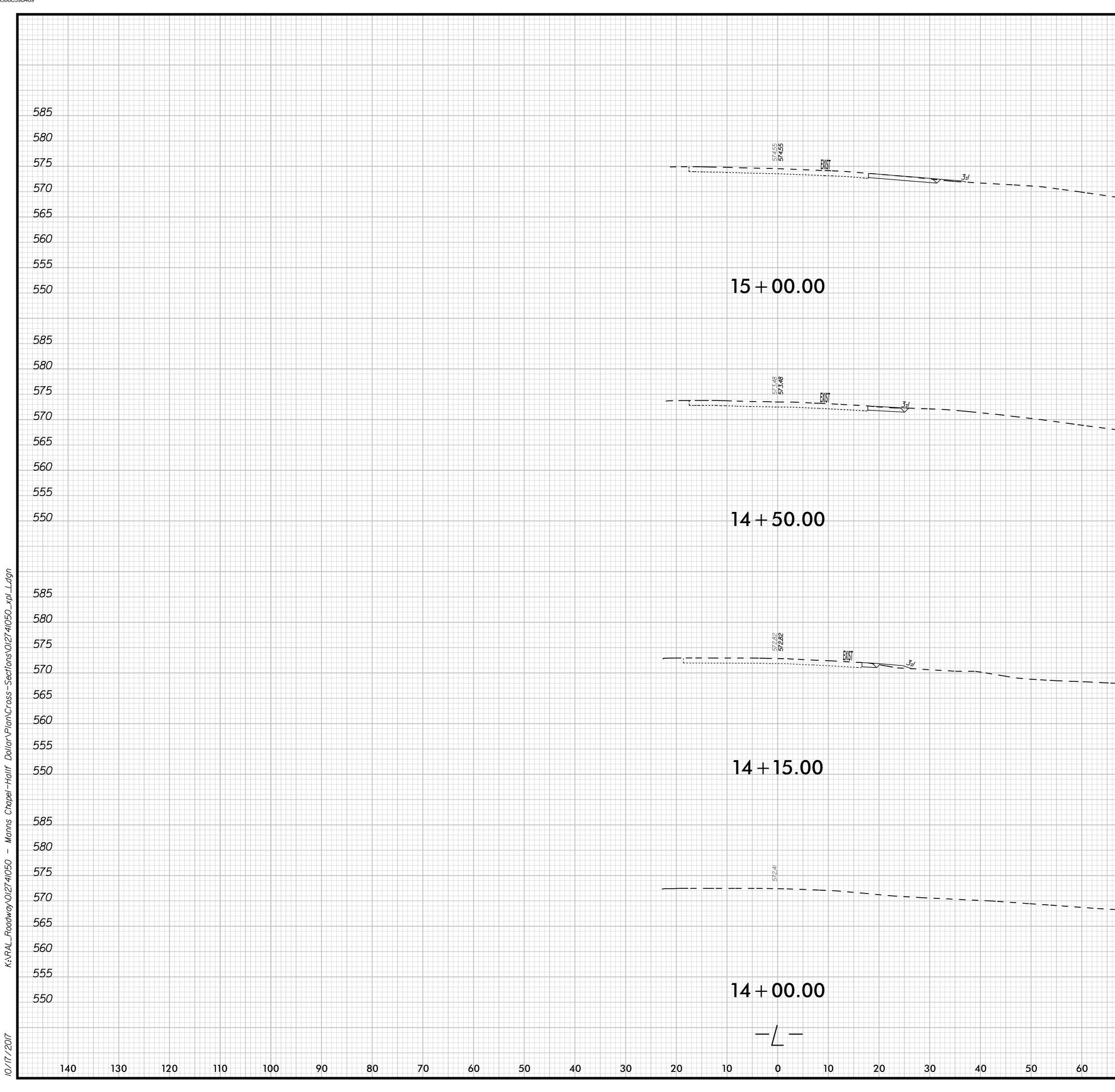
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SR-1532 (MANNS CHAPEL RD - RIGHT TURN LANE) **CROSS SECTION INDEX**

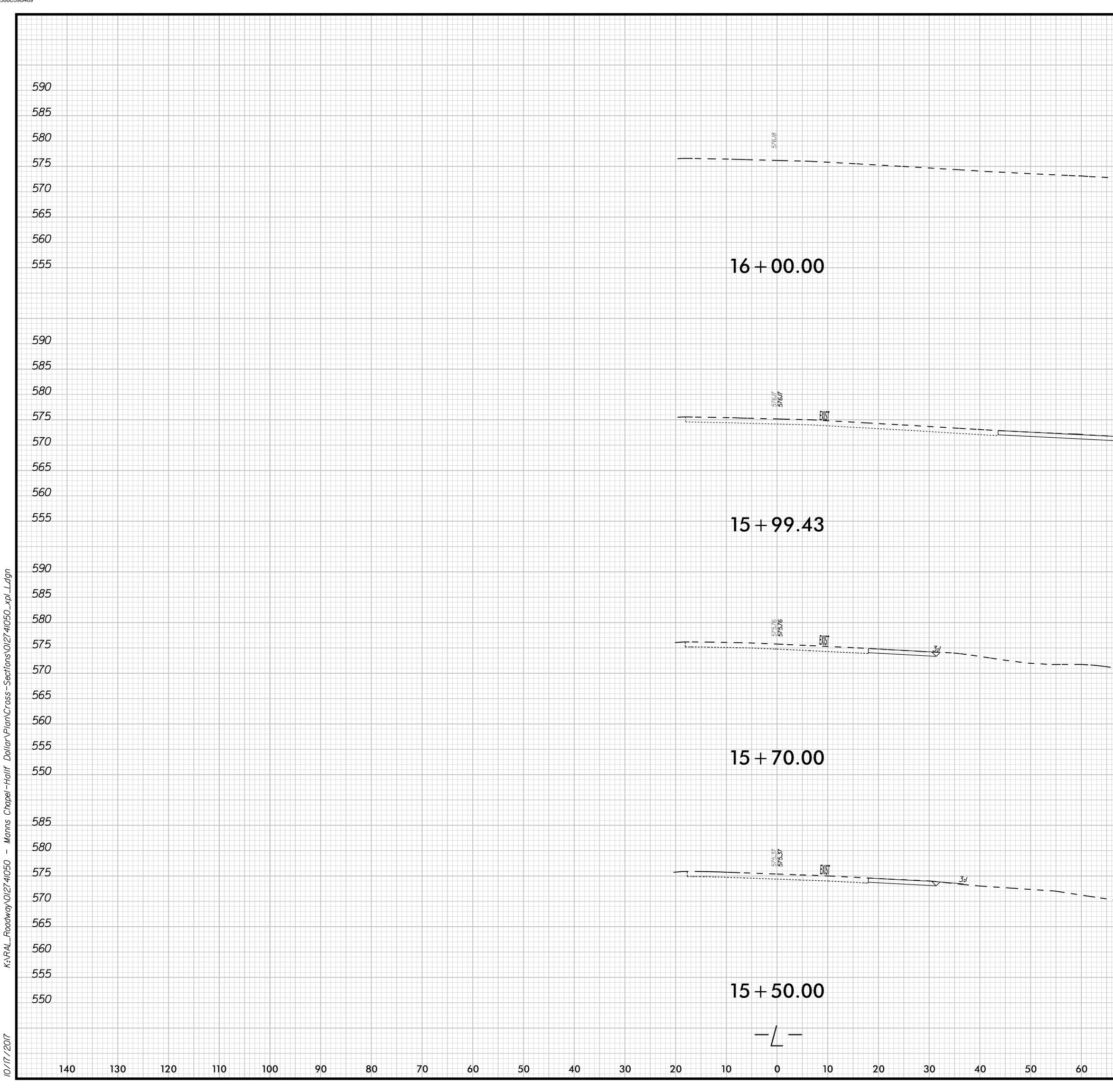
-L- SR-1532 (MANNS CHAPEL RD)

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			PROJ. REFERENCE NO. 012741050	X-2
			Kimley»Horn	421FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601 PHONE: (919) 677-2000 FAX: (919) 677-2050
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			PROJ. REFERENCE NO 012741050). SHEET NO. <i>X-3</i>
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