



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

August 20, 2021

**COUNTY: Wake**  
**SUBJECT: Application for Driveway Entrance onto SR 1003**  
**Permit Number D051-092-21-00125**

Ashton Raleigh Residential, LLC  
5711 Six Forks Road, Suite 300  
Raleigh, NC 27609

Dear Sir or Madam,

Attached for your file is a copy of the Driveway Permit which you requested.

This permit is approved with the understanding the applicant is responsible for the proper construction of the above drive in accordance with the permit application, approved plans and the attached Standard and Special Provisions.

**APPROVAL FOR ACCESS ONLY**

**A PERFORMANCE AND INDEMNITY BOND IN THE VALUE OF \$1,000,000.00 IS REQUIRED AND SHALL BE POSTED WITH THE DISTRICT OFFICE PRIOR TO THE START OF WORK. THE BOND SHALL DISPLAY THE DRIVEWAY PERMIT NUMBER.**

Should you have any questions, please contact the District Engineers Office at (919) 733-3213.

Sincerely,

A. N. Neidringhaus, P.E. (FL)

District Engineer

ANN/msg

Attachment

cc: Mr. B. H. Jones, P. E., Division Engineer  
Town of Rolesville

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
DIVISION 5 – DISTRICT 1  
1575 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1575

*Telephone:* (919) 733-2814  
*Fax:* (919) 715-5778  
*Customer Service:* 1-877-368-4968

*Location:*  
4009 DISTRICT DRIVE  
RALEIGH, NC 27607

*Website:* [www.ncdot.gov](http://www.ncdot.gov)

## Driveway Permit Special Provision

1. The encroaching party's construction contractor must submit the NCDOT Workforce Safety Plan for Encroachment Activities: COVID-19 form to the District Engineer prior to construction.
2. NCDOT WORK ZONE TRAFFIC CONTROL QUALIFICATIONS AND TRAINING PROGRAM:
  - A. Effective July 1, 2010, all flagging operations within NCDOT Right of Way require qualified and trained Work Zone Flaggers.
  - B. Effective July 1, 2011, qualified and trained Work Zone Traffic Control Supervisors will be required on Significant Projects.
  - C. 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).
3. Before work begins, please forward the contact information of the general contractor to the Senior Assistant District Engineer, Sean Brennan, P.E. at [spbrennan@ncdot.gov](mailto:spbrennan@ncdot.gov). Include contact name, emergency phone number and email.
4. Approval is for the following driveway accesses as shown on the attached plans received in the District Office on July 21, 2021:
  - 1.) One full access driveway onto SR 1003 (Rolesville Road), located at the intersection with SR 2305 (Quarry Road). This driveway shall provide a minimum internal protected stem length of 325 feet.
  - 2.) One full access driveway onto SR 1003 (Rolesvills Road), located at the intersection with SR 2305 (Quarry Road). This driveway shall provide a minimum internal protected stem length of 250 feet.
  - 3.) One full access driveway onto SR 1003 (Rolesvills Road), located at the intersection with SR 2224 (Mitchell Mill Road). This driveway shall provide a minimum internal protected stem length of 100 feet.
5. NCDOT reserves the right to further restrict this access at the expense of the encroaching party if/when accident history exists and/or operational issues occur.

NCDOT reserves the right to revise, restrict, suspend and/or void this driveway permit if the execution and/or operation of said permit is found to be a hazard to the traveling public.

6. This development will be divided into two phases (residential build and full build). The following roadway improvements shall be required under residential build:
  - 1.) The construction of an exclusive right-turn lane along southbound SR 1003 (Rolesville Road) onto Driveway #1, providing a minimum of 250 feet of full width storage with appropriate deceleration length and transitional taper.
  - 2.) The construction of an exclusive left-turn lane along northbound SR 1003 (Rolesville Road) onto Site Driveway #1, providing a minimum of 100 feet of full width storage with appropriate deceleration length and transitional taper.
  - 3.) The construction of an exclusive right-turn lane along southbound SR 1003 (Rolesville Road) onto Site Driveway #2, providing a minimum of 100 feet of full width storage with appropriate deceleration length and transitional taper.
  - 4.) The construction of an exclusive left-turn lane along northbound SR 1003 (Rolesville Road) onto Site Driveway #2, providing a minimum of 100 feet of full width storage with appropriate deceleration length and transitional taper.
  - 5.) The construction of an exclusive left-turn lane along northbound SR 1003 (Rolesville Road) onto Site Driveway #3, providing a minimum of 50 feet of full width storage with appropriate deceleration length and transitional taper.

The following roadway improvements shall be required under full build:

- 1.) The extension of the existing right-turn lane along eastbound US 401 Bypass onto SR 1003 (Rolesville Road) to provide 400 feet of storage.
  - 2.) The construction of an exclusive right-turn lane along northbound SR 1003 (Rolesville Road) onto SR 2305 (Quarry Road), providing a minimum of 100 feet of full width storage with appropriate deceleration length and transitional taper.
7. A \$1,000,000.00 Performance and Indemnity Bond shall be executed and posted with the District Office at 4009 District Drive, Raleigh, North Carolina 27607, prior to beginning any work in the Right-of-Way. When the project has been completed for a period of one year and upon written request by the Permittee to the District Office, an inspection and review will be performed by NCDOT, and if all work is found to be satisfactory, the bond will be released.
  8. Pavement widening, storm drainage, curb and gutter, and other roadway improvements associated with the proposed driveway entrance/entrances shall be constructed under an approved Encroachment Agreement which shall be obtained prior to commencement of driveway construction.
  9. All lots/outparcels shall be served internally, with no additional accesses onto SR 1003 (Rolesville Road). This condition shall be conveyed in any buy, sell, lease, or rent.
  10. Any future development or attachment will require review and approval by NCDOT. Additional roadway improvements and/or further restriction of existing access points may be required. This will be determined by the traffic conditions at the time of the future development.
  11. Approval of the driveway permit does not constitute review and approval of streets for NCDOT maintenance. If addition of streets to the state system is desired, plans for review and a petition for addition shall be submitted to the District Engineer's office. For further information, contact the District Engineers Office, at (919) 733-3213.
  12. Notify the Town of Rolesville prior to beginning work.

13. Any personnel or equipment working within five feet of a travel lane shall require a full lane closure. No lane of traffic shall be closed or restricted between the hours of 6:00 AM to 9:00 AM and 4:00 PM to 7:00 PM Monday thru Friday, during any time of inclement weather, or upon District Engineers' directive. Traffic shall be maintained at all times. Any violation of these hours will result in termination of the Driveway Permit and liquidated damages in the amount of \$2,000.00 per hour or any portion thereof will be assessed by the District Engineers Office.
14. Sight distance shall be free and clear of any debris, foliage and/or earth material for a minimum distance of 450 feet on SR 1003 (Rolesville Road). Vegetation removal and/or grading may be necessary to achieve the required sight distance. If the sight distance requirement is not achieved NCDOT reserves the right to deny/close/restrict this/these access(es).
15. Signal modification and plan review shall be required. Please coordinate with the Division Traffic Engineer at (919) 220-4600 for approval.
16. All bare and disturbed areas must have a sufficient stand of vegetation. Address any erosion issues that may arise during time of construction. Monitor these areas as needed to assure this requirement is satisfied.
17. The roadway shall be kept free of silt, mud and debris at all times.
18. The property owners/developer will provide a full signal warrant analysis for a traffic signal at East Young Street and Quarry Road/north site access ("Warrant Analysis") prior to the approval of the plat containing the 325th lot (of the lots South of 401 Bypass) to be developed upon the subject property. In addition, the Town shall have the right to call for up to two (2) additional Warrant Analysis beginning with the approval of the plat containing the 200th lot (of the lots South of the 401 Bypass) and expiring at the approval of the plat containing the 600th lot (of the lots South of the 401 Bypass). If a signal is warranted as part of the Warrant Analysis, traffic signal easements to accommodate traffic signal equipment shall be provided by the property owners/developer and, within 12 months of being warranted and approved by the NCDOT, and the property owners/developer shall design, construct and install a traffic signal subject to final approval by the NCDOT.
19. Prior to the issuance of a building permit for the 500th home (of the lots South of 401 Bypass), the property owners/developer shall contribute Fifty Thousand Dollars (\$50,000.00) to the Town of Rolesville to be used the Town of Rolesville to install traffic light at the intersection of Mitchell Mill and Rolesville Road.

## Driveway Permit Standard Provision

1. An executed copy of this driveway access permit, and any associated encroachment permits, will be present at the construction site at all times during construction. NCDOT reserves the right to stop all work unless evidence of approval can be shown.
2. NCDOT reserves the right to further restrict this access at the expense of the encroaching party if/when accident history exists and/or operational issues occur.
3. NCDOT reserves the right to revise, restrict, suspend and/or void this driveway permit if the execution and/or operation of said permit is found to be a hazard to the traveling public.
4. This driveway permit only covers work within NCDOT Right-of-Way. The encroacher is responsible for verifying all right of way. NCDOT does not guarantee the right of way on this road. If the right of way was not obtained by the fee simple method, it is the responsibility of the encroacher to obtain permission from the underlying property owner/owners.

Encroacher shall be responsible for obtaining all necessary permanent and/or temporary construction, drainage, utility and/or sight distance easements. All Right of Way and easements necessary for construction and maintenance shall be dedicated to NCDOT with proof of dedication furnished to the District Engineer prior to beginning work.

5. Please note that approval of the driveway permit does not constitute review or approval of utilities or sidewalk by NCDOT. Plans and a completed encroachment agreement shall be submitted to the District Engineer's office for review and approval.
6. The encroacher is responsible for any claim for damages brought by any property owner by reason of the installation.
7. Notify the District Engineer's Office at (919) 733-3213 or at 4009 District Drive, Raleigh, NC 27607, prior to beginning and after completion of work.
8. The Encroacher shall notify the public, including all adjacent property owners and businesses, a minimum of 2 weeks prior to beginning work.
9. Driveway radii and widths shall be as shown on the attached approved plans.
10. Any and all changes noted in red on the plans shall be incorporated into and made part of the approved permit.
11. The encroaching party shall comply with all applicable local, state and federal environmental regulations, and shall obtain all necessary state and federal environmental permits, including but not limited to, those related to sediment control, storm water, wetland, streams, endangered species, and historical sites.
12. All materials and construction shall be in accordance with NCDOT standards and specifications, including but not limited to, the NCDOT Standard Specifications for Roads and Structures 2012, the NCDOT Roadway Standards Drawings, and NCDOT Policies and Procedures for Accommodating Utilities on Highway Rights of Way.

13. The encroacher shall 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 Drawings 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 Supplements thereto. 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.

Sidewalk closures shall be installed as necessary. Pedestrian traffic shall be detoured around these closures and shall be signed appropriately and in accordance with The American with Disabilities Act Accessibility Guidelines.

14. No parking or material storage shall be allowed along the shoulders of any NCDOT roadways.
15. Two-way traffic shall be maintained at all times.
16. No lane closures shall be permitted between the hours of 6:00 AM to 9:00 AM and 4:00 PM to 7:00 PM, Monday through Friday unless otherwise specified in the Special Provisions of this encroachment agreement.
17. At the end of each working day, equipment shall be parked outside of the clear recovery zone in order to avoid any obstruction to the travelling public. This clear recovery zone is measure from the edge of the nearest travel lane.
18. Work shall not be performed on both sides of the road simultaneously within the same area.
19. Ingress and egress shall be maintained to all businesses and dwellings at all times.
20. The paving of this roadway shall be in accordance with the revised NCDOT 2012 Standard Specifications, Sections 610, 1012 and 1020. The Contractor shall follow all procedures of the attached Quality Management System (QMS) for asphalt pavement - Maintenance Version. The Contractor must adhere to all testing requirements and quality control requirements specified. The Contractor shall contact the NCDOT Division 5 QA Supervisor at (919) 562-0018 prior to producing plant mix and make the Supervisor aware that the mix is being produced for a future NCDOT road. Only NCDOT approved mix designs will be acceptable. A quality control plan shall be submitted to the District Engineer's Office prior to asphalt production. Use form QMS-MV1 for the Quality Control Plan submittal. Failing mixes and/or densities are subject to penalties including monetary payments or removal and replacement.
21. Roadway certification reports sealed by a Professional Engineer shall be submitted to the North Carolina Department of Transportation at 4009 District Drive, Raleigh, North Carolina, indicating the following:
  - \* Pavement thickness by type
  - \* Pavement density, core and/or test locations
  - \* Base thickness
  - \* Base density
  - \* Subgrade densityTest frequency and method shall be in conformance with the NCDOT "Materials and Tests" Manual. Test must be performed by a Certified Technician including name and Certification number on report.
22. Any existing driveways, pavement, sidewalk, curb and gutter or drainage structures that are damaged during construction shall be repaired to their original condition.
23. When surface area in excess of one acre will be disturbed, the Encroacher shall submit a Sediment and Erosion Control Plan which has been approved by the appropriate regulatory agency or authority prior to beginning any work on the Right of Way. Failure to provide this information shall be grounds for suspension of operations.

24. All erosion control devices and measures shall be constructed, installed, maintained, and removed by the Encroacher in accordance with all applicable Federal, State, and Local laws, regulations, ordinances, and policies. All earth areas shall be regraded and seeded in accordance with NCDOT Standards Specifications for Roads and Structures 1995. Seeding rates per acre shall be the following:
  - \* Year Round Mixture: 50# Pensacola Bahia Grass; 50# KY 31 Tall Fescue; 5# Centipede; 500# 10-20-20 Fertilizer; 4000# Limestone;
  - \* 2:1 Slopes Standard Mix: Use Year Round Mixture (Delete Centipede); Add 25# Service Lespedeza;
  - \* If Using Crown Vetch on 2:1 Slope (September-May): Use Year Round Mixture; Add Crown Vetch 15 lbs./Ac.; (Delete Centipede and Bahia)
25. The applicant is responsible for identifying project impacts to waters of the United States (wetlands, intermittent streams, perennial streams and ponds) located within the NCDOT right-of-way. The discharge of dredged or fill material into waters of the United States requires authorization from the United States Army Corps of Engineers (USACE) and certification from the North Carolina Division of Water Quality (NCDWQ). The applicant is required to obtain pertinent permits or certification from these regulatory agencies if construction of the project impacts waters of the United States within the NCDOT right-of-way. Additional information can be obtained by contacting the USACE or NCDWQ.
26. The applicant is responsible for avoiding impacts to federally protected species during project construction. Bald eagle, Michaux's sumac, smooth coneflower, dwarf wedge mussel, harperella, red-cockaded woodpecker and tar spiny mussel are federally protected species that have been identified within NCDOT right-of-way in Durham, Person, Granville, Wake, Franklin, Vance, and Warren counties. Additional information can be obtained by contacting the North Carolina Natural Heritage Program or the United States Fish and Wildlife Services.
27. The applicant is responsible for complying with the Neuse and Tar-Pamlico Riparian Buffer Rule as regulated by the NCDWQ. The Rule regulates activity within a 50-foot buffer along perennial streams, intermittent streams and ponds. Additional information can be obtained by contacting the NCDWQ.
28. Existing drainage patterns shall be maintained at all times throughout the proposed construction. The encroacher shall keep the roadway clean of dirt and debris at all times throughout the duration of the project.
29. All proposed landscaping and plantings located within the NCDOT right of way shall be approved by the Division Roadside Environmental Engineer at (919) 816-9290.
 

In the event these plants require relocation or removal for highway construction, reconstruction, or maintenance of safety, such removal or relocation will be done immediately by the permittee upon notification by the NCDOT entirely at the expense of the permittee.
30. The Division Traffic Engineer, shall be notified at (919) 220-4600 prior to any excavation within 500 feet of a signalized intersection or if there are existing NCDOT signs in or near the proposed work zone. All traffic signal or detection cables must be located prior to excavation. All signal work and traffic signs shall be coordinated with the Division Traffic Engineer. Costs to relocate, replace, or repair NCDOT signs, signals, or associated equipment shall be the responsibility of the Encroacher.
31. All temporary and final pavement markings, reflective pavement markings and signage are the responsibility of the Encroacher. All final pavement markings shall be thermoplastic. Any pavement markings that are damaged or obliterated shall be restored at no expense to NCDOT.
32. All Traffic signs moved shall be reinstalled as soon as possible to meet NCDOT specifications.
33. Strict compliance with the Policies and Procedures for Accommodating Utilities on Highway Right of Way manual shall be required.

34. It shall be the responsibility of the Encroacher to determine the location of other utilities within the encroachment area. 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.
35. All earth areas disturbed shall be regraded and reseeded in accordance with Division of Highways Standards and Specifications.
36. The Encroacher shall remove all trees, stumps and vegetative material from the right of way and dispose of in a licensed landfill or disposal site.
37. Excavated material shall not be placed on the roadway at any time.
38. Trenching, bore pits and/or other excavations shall not be left open or unsafe overnight. The Contractor shall comply with all OSHA requirements and provide a competent person on site to supervise excavation at all times.
39. All excavations inside the theoretical 1:1 slope from the existing edge of pavement to the bottom of the nearest excavation wall should be made in accordance with the following conditions. Traffic should be moved to a travel lane outside the limits of a theoretical one-to-one 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 shoring system shall be designed and sealed by an engineer registered in North Carolina. Trench boxes shall not be accepted as shoring. The trench backfill material should meet the Statewide Borrow Criteria.
40. Excavated areas adjacent to pavement having more than a 2 inch drop shall be 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. Backfill material is to be placed at a maximum of 6 inch loose layers and each layer thoroughly compacted. All embankment backfill shall be compacted to 95% density and all subgrade to 100% density in accordance with AASHTO T-99 as modified by NCDOT. They shall be signed by a Professional Engineer and sent to the District Engineers Office at 4009 District Drive, Raleigh, NC 27607.
42. No commercial advertising shall be allowed within NCDOT Right of Way.
43. Guardrail shall be installed where warranted and in accordance with the guidelines shown in the 2012 Highway Design Branch Roadway Standard Drawings.  
  
Guardrail removed or damaged during construction shall be replaced or repaired to their original condition.
44. Poles shall be located/relocated at or as near as possible to the right-of-way line, shall be set outside the Clear Recovery Area as outlined by AASHTO and outside sight distance triangles.  
  
Poles located within guardrail sections shall be installed a minimum of 5 feet behind any guardrail. When applicable, poles shall be placed behind sidewalk.  
  
Any associated guy wires to ground anchors and stub poles shall not be placed between a pole and the travel way and should be located outside the clear recovery area.  
  
Minimum vertical clearance shall be 18' for aerial crossings over NCDOT roadways and 15'-6" for installations parallel to the roadway.
45. Fire Hydrants shall be of the break-away type. Hydrants shall be placed a maximum of one foot inside the right of way in ditch sections or a minimum of 6 feet behind the curb in curb and gutter sections.



46. Retaining walls or other vertical structures shall not be permitted inside NCDOT right of way.



**SIGNATURES OF APPLICANT**

PROPERTY OWNER (APPLICANT)		WITNESS	
COMPANY	Ashton Raleigh Residential, LLC (Attn: Bob Mishler)	NAME	Mary Hill Herold
SIGNATURE	<i>Bob Mishler</i>	SIGNATURE	<i>[Signature]</i>
ADDRESS	5711 Six Forks Road, Suite 300 Raleigh, NC 27609 Phone No. 919-232-3695	ADDRESS	5711 Six Forks, Svc 300 Raleigh, NC 27609

AUTHORIZED AGENT		WITNESS	
COMPANY	Ashton Raleigh Residential, LLC (Attn: Bob Mishler)	NAME	Mary Hill Herold
SIGNATURE		SIGNATURE	<i>[Signature]</i>
ADDRESS	5711 Six Forks Road, Suite 300 Raleigh, NC 27609 Phone No. 919-232-3695	ADDRESS	5711 Six Forks, Svc 300 Raleigh, NC 27609

**APPROVALS**

APPLICATION RECEIVED BY DISTRICT ENGINEER

\_\_\_\_\_  
SIGNATURE DATE

APPLICATION APPROVED BY LOCAL GOVERNMENTAL AUTHORITY (when required)

*Julie Songes* PLANNER II 20210614  
SIGNATURE TITLE DATE

APPLICATION APPROVED BY NCDOT

\_\_\_\_\_  
SIGNATURE TITLE DATE 08/20/21

INSPECTION BY NCDOT

\_\_\_\_\_  
SIGNATURE TITLE DATE

COMMENTS:

**Sight Distances**

- 1. 450+ (N,S,E,W) 450+ (N,S,E,W) \_\_\_\_\_ Width \_\_\_\_\_ Radius  Full \_\_\_\_\_ Right in/Right out \_\_\_\_\_ Other \_\_\_\_\_
- 2. 450+ (N,S,E,W) 450+ (N,S,E,W) \_\_\_\_\_ Width \_\_\_\_\_ Radius  Full \_\_\_\_\_ Right in/Right out \_\_\_\_\_ Other \_\_\_\_\_
- 3. 450+ (N,S,E,W) 450+ (N,S,E,W) \_\_\_\_\_ Width \_\_\_\_\_ Radius  Full \_\_\_\_\_ Right in/Right out \_\_\_\_\_ Other \_\_\_\_\_
- 4. \_\_\_\_\_ (N,S,E,W) \_\_\_\_\_ (N,S,E,W) \_\_\_\_\_ Width \_\_\_\_\_ Radius \_\_\_\_\_ Full \_\_\_\_\_ Right in/Right out \_\_\_\_\_ Other \_\_\_\_\_

Alignment with other drives \_\_\_\_\_

**Storm Drainage**

- Reinforced Concrete Diameter \_\_\_\_\_ Length \_\_\_\_\_
- Corrugated Steel Diameter \_\_\_\_\_ Length \_\_\_\_\_
- Plastic Diameter \_\_\_\_\_ Length \_\_\_\_\_
- Drop inlet/catch basin
- Cleanout
- Ditch & Shoulder Shoulder width \_\_\_\_\_ Ditch depth \_\_\_\_\_
- Junction w/manhole ring & cover

**Roadway Improvements**

- Near side widening Width \_\_\_\_\_
- Symmetrical widening Width \_\_\_\_\_ (each side)
- Approach Taper Length \_\_\_\_\_ feet
- Departure Taper Length \_\_\_\_\_ feet
- Left turn lane Storage \_\_\_\_\_ feet
- Right turn lane Storage \_\_\_\_\_ feet
- Bay taper
- Decel taper
- Curb & Gutter
- Sidewalk
- Other \_\_\_\_\_

**Pavement Design**

- \_\_\_\_\_ inches Aggregate Base Course
- \_\_\_\_\_ inches Bituminous Concrete Base Course - Type HB
- \_\_\_\_\_ inches Bituminous Concrete Base Course - Type H
- \_\_\_\_\_ inches Bituminous Concrete Base Course - Type I-2

**Recommendation**

- Approve as Submitted
- Construct in accordance with Figure 5
- Curb and gutter inspection
- Pipe inspection
- Encroachment
- Bond \_\_\_\_\_
- Signal revision required.
- Temporary (Expiration date) \_\_\_\_\_
- Access to outparcels prohibited
- Erosion control plan
- Payment marking plan
- Pavement structure report
- Review by traffic engineering
- Review by Hydraulics
- Review by Design Services
- Review by Right of Way
- Review by \_\_\_\_\_
- Notify municipality \_\_\_\_\_
- Notify \_\_\_\_\_
- Other \_\_\_\_\_

Investigated by CAM Date 06-29-21

1099 E. Young St.

# DRIVEWAY PERMIT INVESTIGATION REPORT

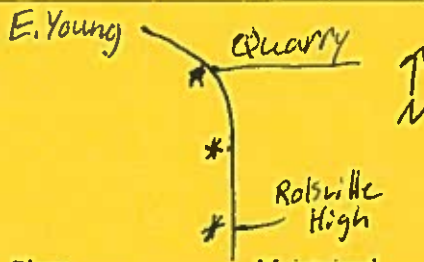
Division 5 District 1 Wake County

Route SR1003 (East Young Street) Permit No.: D051-092-21-00125

- Residential Applicant \_\_\_\_\_
- Subdivision \_\_\_\_\_
- Regular Commercial Property Owner \_\_\_\_\_
- Special Commercial \_\_\_\_\_
- Temporary Local Authority \_\_\_\_\_ Approved? \_\_\_\_\_
- Other \_\_\_\_\_

DESCRIPTION 0', 1150', 2180' From Intersection of E. Young St and Quarry Rd Toward Fowler Rd

- Planning
- Grading
- Existing
- Active



### Existing Conditions

Right of Way 90 Feet Recorded \_\_\_\_\_ Plans \_\_\_\_\_ Maintained \_\_\_\_\_  
 Controlled Access \_\_\_\_\_ Approved C/A Access Point \_\_\_\_\_

Traffic Volume(ADT) 7,000 (Count, Estimate) Speed Limit 45 mph

Pavement Width 35, 26, 36 Feet (+ or -) ✓

- 2 lane (2 way traffic)
- 4 lane (2 way traffic)
- 3 lane (2 way w/ center turn lane)
- 5 lane (2 way w/ center turn lane)
- Multilane divided ( \_\_\_\_\_ lanes) planted median \_\_\_\_\_ median barrier/island)
- One way ( \_\_\_\_\_ lanes)
- Other \_\_\_\_\_
- Ditch and shoulder section (Shoulder width 8, 13, 12)
- Curb and gutter ( \_\_\_\_\_ Back to Back)

Vertical Alignment \_\_\_\_\_

Horizontal Alignment \_\_\_\_\_

Other Development \_\_\_\_\_

Existing turn lanes \_\_\_\_\_

Other Streets, Drives, etc. \_\_\_\_\_

Existing channelization, etc. \_\_\_\_\_

Storm Drainage \_\_\_\_\_

Existing Structures (Bridge, culvert, etc.) \_\_\_\_\_

Other \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



Project: **The Point Roadway Improvements**

R/W

County: Wake

Description: Widening East Young Street to a 3-lane curb and gutter section with sidewalk along the frontage and turn lane widening at the driveways

Typical Section: Curb and Gutter

**CONSTR. COST**  
**\$1,080,000**

Prepared By: Elizabeth Lynch, PE  
Requested By: NCDOT Division 5

Date: 7/21/2021  
Date:

Line Item	Sec No.	Description	Quantity	Unit	Price	Amount
1	800	Mobilization	1	LS	\$ 51,338.00	\$ 51,338.00
2	801	Construction Surveying	1	LS	\$ 25,043.00	\$ 25,043.00
3	226	Grading	1	LS	\$ 60,000.00	\$ 60,000.00
4	300	Foundation Conditioning Material, Minor Structures	150	TON	\$ 58.00	\$ 8,700.00
5	300	Foundation Conditioning Geotextile	470	SY	\$ 4.50	\$ 2,115.00
6	310	15" RC Pipe Culverts, Class IV	1292	LF	\$ 80.00	\$ 103,360.00
7	310	18" RC Pipe Culverts, Class IV	67	LF	\$ 100.00	\$ 6,700.00
8	310	48" RC Pipe Culverts, Class IV	22	LF	\$ 215.00	\$ 4,730.00
9	350	Pipe Clean Out	1	EA	\$ 1,000.00	\$ 1,000.00
10	501	#57 Stone	50	TON	\$ 50.00	\$ 2,500.00
11	607	Milling Asphalt Pavement, 0" to 3"	3800	SY	\$ 10.00	\$ 38,000.00
12	607	Incidental Milling	440	SY	\$ 17.00	\$ 7,480.00
13	610	Asphalt Conc Base Course, Type B25.0C	1280	TON	\$ 80.00	\$ 102,400.00
14	610	Asphalt Conc Intermediate Course, Type I19.0C	1250	TON	\$ 75.00	\$ 93,750.00
15	610	Asphalt Conc Surface Course, Type S9.5C	1750	TON	\$ 70.00	\$ 122,500.00
16	620	Asphalt Binder for Plant Mix	225	TON	\$ 500.00	\$ 112,500.00
17	838	Endwall	6	CY	\$ 1,700.00	\$ 10,200.00
18	840	Masonry Drainage Structure	18	EA	\$ 2,500.00	\$ 45,000.00
19	840	Frame with Grate & Hood, Std 840.03, Type E	2	EA	\$ 850.00	\$ 1,700.00
20	840	Frame with Grate & Hood, Std 840.03, Type F	6	EA	\$ 850.00	\$ 5,100.00
21	840	Frame with Grate & Hood, Std 840.03, Type G	6	EA	\$ 850.00	\$ 5,100.00
22	840	Frame with Cover, Std 840.54	4	EA	\$ 650.00	\$ 2,600.00
23	846	2'-6" Concrete Curb and Gutter	3346	LF	\$ 18.00	\$ 60,228.00
24	848	4" Concrete Sidewalk	1584	SY	\$ 42.00	\$ 66,528.00
25	848	Concrete Curb Ramp	10	EA	\$ 2,500.00	\$ 25,000.00
26	862	Steel Beam Guardrail	200	LF	\$ 25.00	\$ 5,000.00
27	SP	Guardrail End Units, Type TL-3	1	EA	\$ 3,800.00	\$ 3,800.00
28	862	Guardrail End UnitS, Type CAT-1	1	EA	\$ 600.00	\$ 600.00
29	876	Rip Rap, Class B	6	TON	\$ 70.00	\$ 420.00
30	876	Rip Rap, Class I	60	TON	\$ 75.00	\$ 4,500.00
31	876	Geotextile for Drainage	84	SY	\$ 6.00	\$ 504.00
32	SP	Relocate Flashing Speed Limit Pedestal and Sign	1	EA	\$ 2,500.00	\$ 2,500.00
33	903	Supports, 3-LB Steel U-Channel	28	LF	\$ 10.00	\$ 280.00
34	904	Sign Erection, Type E	2	EA	\$ 100.00	\$ 200.00
35	907	Disposal of Sign System, U-Channel	1	EA	\$ 30.00	\$ 30.00
36	907	Disposal of Support, U-Channel	2	EA	\$ 35.00	\$ 70.00
37	SP	Temporary Traffic Control	1	LS	\$ 30,000.00	\$ 30,000.00
38	1205	Thermoplastic Pavement Marking Lines (4", 90 Mils)	7252	LF	\$ 2.50	\$ 18,130.00
39	1205	Thermoplastic Pavement Marking Lines (8", 90 Mils)	323	LF	\$ 3.00	\$ 969.00
40	1205	Thermoplastic Pavement Marking Lines (12", 90 Mils)	47	LF	\$ 12.00	\$ 564.00
41	1205	Thermoplastic Pavement Marking Symbol (90 Mils)	24	EA	\$ 215.00	\$ 5,160.00
42	1251	Permanent Raised Pavement Markers	115	EA	\$ 26.00	\$ 2,990.00
43	1605	Temporary Silt Fence	2025	LF	\$ 4.00	\$ 8,100.00
44	1610	Stone for Erosion Control, Class A	75	TON	\$ 60.00	\$ 4,500.00
45	1610	Stone for Erosion Control, Class B	25	TON	\$ 60.00	\$ 1,500.00
46	1610	Sediment Control Stone	70	TON	\$ 52.00	\$ 3,640.00
47	1632	1/4" Hardware Cloth	310	LF	\$ 6.00	\$ 1,860.00
48	1660	Seeding and Mulching	6	ACR	\$ 3,200.00	\$ 19,200.00

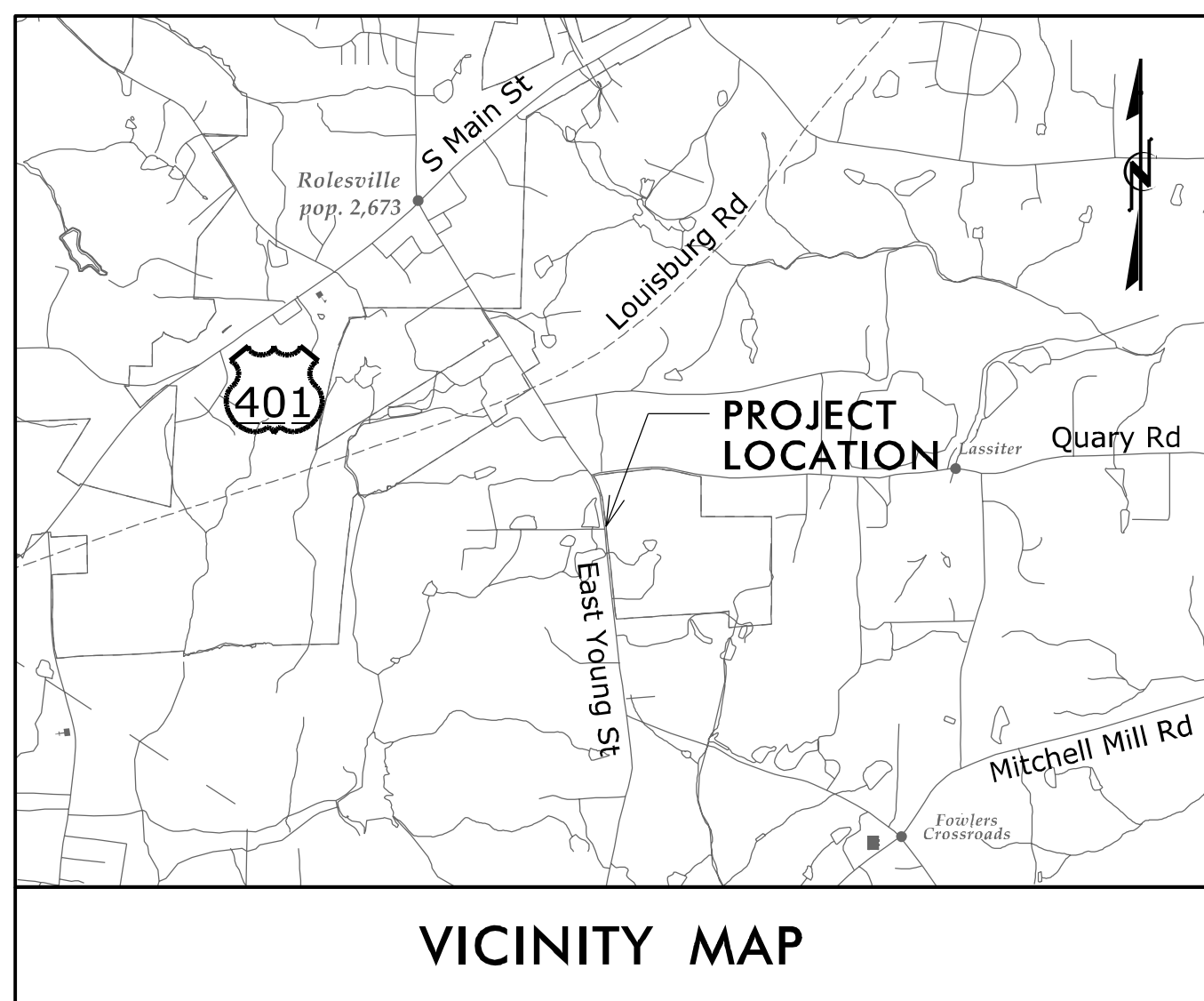
Lgth 0.6 Mi. Total ..... \$ 1,078,089.00  
Construction Cost ..... \$ 1,080,000.00

Notes:

- The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.
- Cost opinion does not include right of way/easement acquisition, utility relocation, engineering, design survey, or construction administration.







# ROADWAY CONSTRUCTION PLANS FOR THE POINT ROADWAY IMPROVEMENTS

EAST YOUNG STREET  
ROLESVILLE, NORTH CAROLINA

TYPE OF WORK:  
GRADING, PAVING, CURB AND GUTTER  
AND STORM DRAINAGE

**CLIENT**

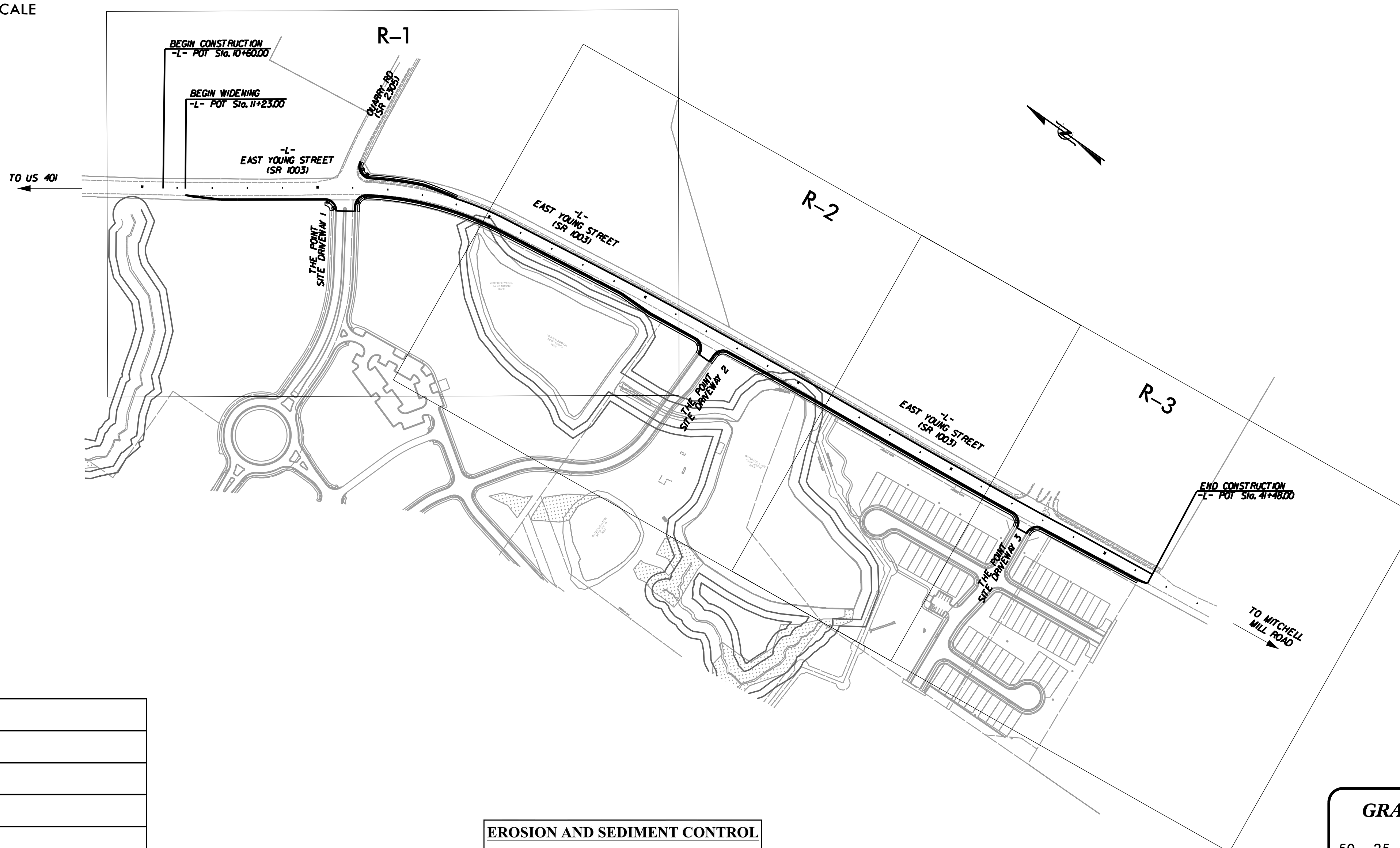
Ashton Raleigh Residential, LLC  
5711 Six Forks Road, Suite 300  
Raleigh, NC 27609  
919-232-3695  
Attn: Bob Mishler

**ROADWAY ENGINEER**

Exult Engineering  
24 Cabarrus Avenue East, Suite 3000  
Concord, NC 28025  
980-495-2249  
Attn: Elizabeth Lynch, PE

**SITE ENGINEER**

McAdams  
2905 Meridian Parkway  
Durham, NC 27713  
919-361-5000  
Attn: Todd O'Daniel, PE



SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	CONVENTIONAL SYMBOLS
3	PROJECT NOTES
4-7	TYPICAL SECTIONS AND DETAILS
8	TRAFFIC MANAGEMENT PLAN
R-1 thru R-5	PLAN AND PROFILE SHEETS
PM-1 thru PM-3	PAVEMENT MARKING AND SIGNING PLAN
EC-1A thru EC-7	EROSION CONTROL PLANS, NOTES, & DETAILS
X-1 thru X-19	ROADWAY CROSS SECTIONS

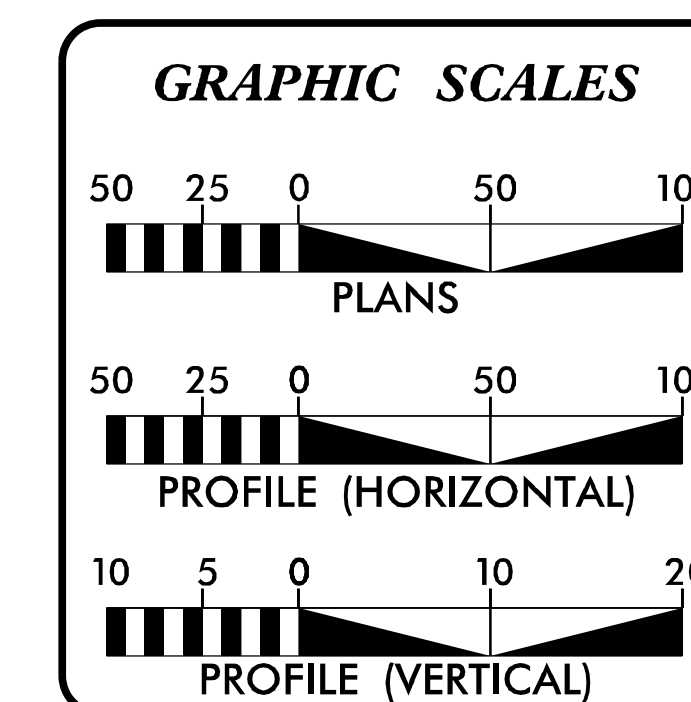
**DESIGN DATA**

AADT 2019 = 10,000 VPD  
DESIGN SPEED = 50 MPH  
CLASSIFICATION: MINOR ARTERIAL

**EROSION AND SEDIMENT CONTROL**

APPROVED PLAN  
DATE \_\_\_\_\_  
PERMIT NO. S- \_\_\_\_\_  
Wake County Environmental Services  
Sedimentation & Erosion Control  
919-856-7400

ENVIRONMENTAL CONSULTANT SIGNATURE



**EXULT**  
ENGINEERING

NC License #C-4445  
304-F.W. Millbrook Rd  
Raleigh, NC 27609  
Tel: (919) 984-5426

THE POINT  
ROADWAY IMPROVEMENTS  
ROLESVILLE, NORTH CAROLINA

TITLE SHEET

SEAL  
NORTH CAROLINA  
PROFESSIONAL  
SEAL  
037444  
ENGINEER  
ELIZABETH W. LYNCH  
06/02/21

DESIGNED BY: E. LYNCH	DATE: 02/18/21
REVIEWED BY: E. LYNCH	DATE: 06/02/21
REVISIONS	COMMENTS

6/2/2021 \$TIME\$ \$USER\$ Z:\shared\0 Projects\00043003 The Point South\10 CAD\Roadway\Proj\ThePoint\_r01.dwg

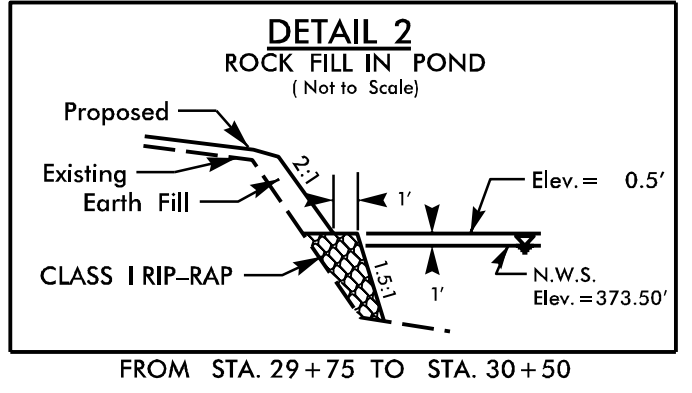






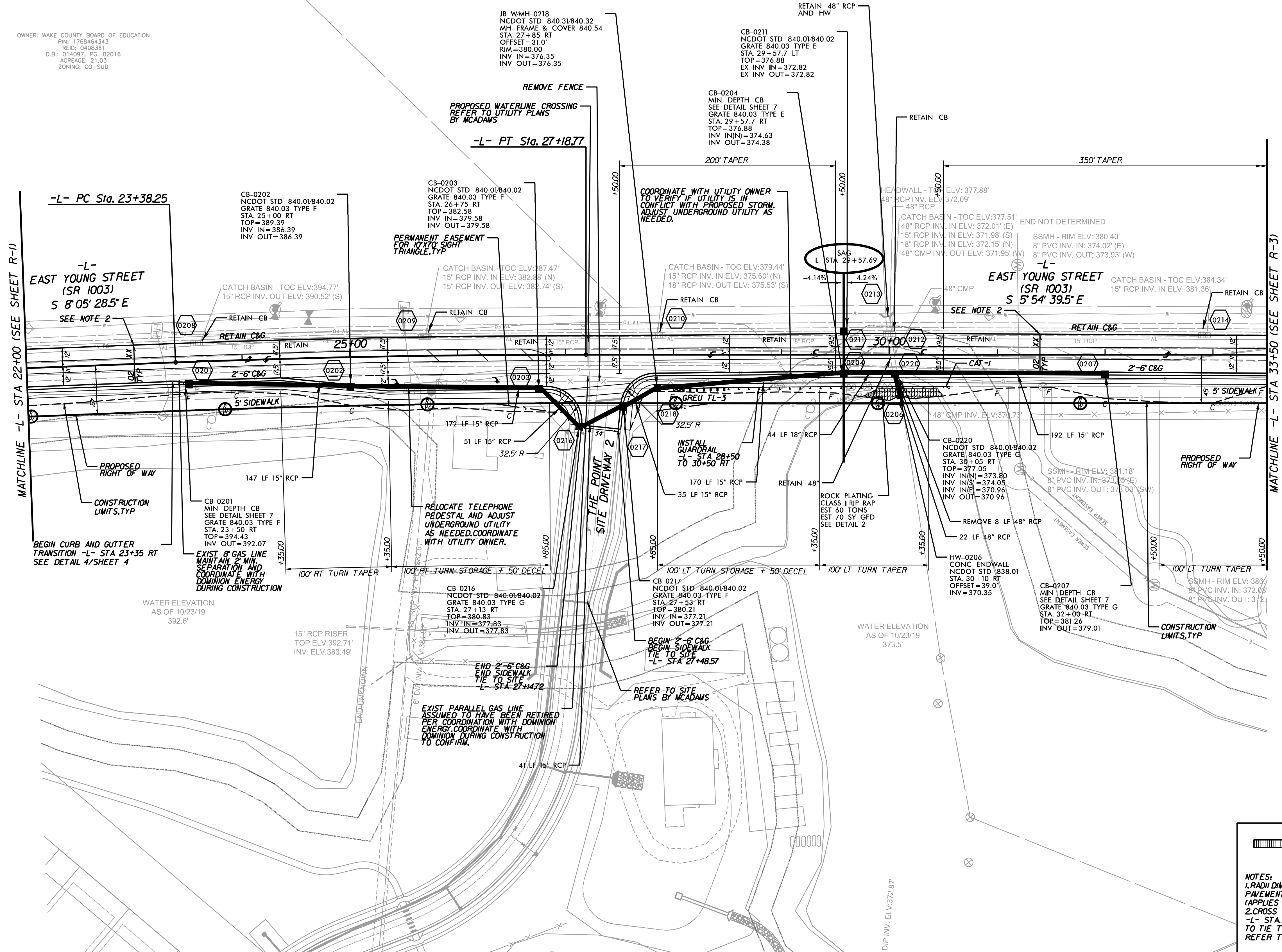


-L-  
 PI Sta 25+28.53  
 $\Delta = 2'10"49.0" (RT)$   
 $D = 0'34"22.6"$   
 $L = 380.53'$   
 $T = 190.29'$   
 $R = 10,000.00'$



OWNER: WAKE COUNTY BOARD OF EDUCATION  
 PIN: 1768554110  
 REID: 0060540  
 D.B.: 014097, PG. 02016  
 ACREAGE: 121.26  
 ZONING: R2-SUD

OWNER: WAKE COUNTY BOARD OF EDUCATION  
 PIN: 1768554110  
 REID: 0060540  
 D.B.: 014097, PG. 02016  
 ACREAGE: 121.26  
 ZONING: R2-SUD



**EXULT**  
 ENGINEERING  
 NC License #C-4445  
 304-F.W. Millbrook Rd  
 Raleigh, NC 27609  
 Tel: (919) 984-5426

**THE POINT**  
 ROADWAY IMPROVEMENTS  
 ROLESVILLE, NORTH CAROLINA

**EAST YOUNG STREET**  
 ROADWAY IMPROVEMENTS



DESIGNED BY: E. LYNCH	DATE: 06/02/21
REVIEWED BY: E. LYNCH	DATE: 06/02/21
INITIALS: EWL	DATE: 06/02/21
REVISIONS FROM NCDOT	DATE

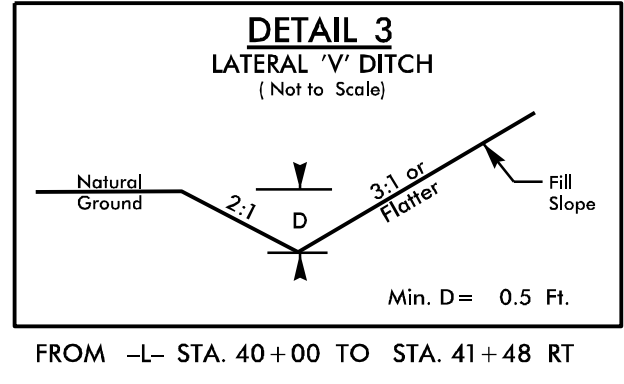
**NOTES:**  
 1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).  
 2. CROSS SLOPES VARY FROM -L- STA. 18+45 LT TO 4+48 LT TO TIE TO EXISTING C&G. REFER TO CROSS SECTIONS.

SHEET NO.  
**R-2**

7/2/2021 Z:\Shared\0 - Projects\00043003 The Point\_South\0 CAD\Roadway\Proj\ThePoint\_rdy\_psh\_r-2.dgn



-L-  
 PI Sta 37+22.22  
 $\Delta = 1'17'' 35.5'' (LT)$   
 $D = 0'34'' 22.6''$   
 $L = 225.70'$   
 $T = 112.86'$   
 $R = 10,000.00'$



OWNER: WAKE COUNTY BOARD OF EDUCATION  
 PIN: 1768554110  
 REID: 0360540  
 D.B.: 014097, PG. 02016  
 ACREAGE: 121.26  
 ZONING: R2-3UD

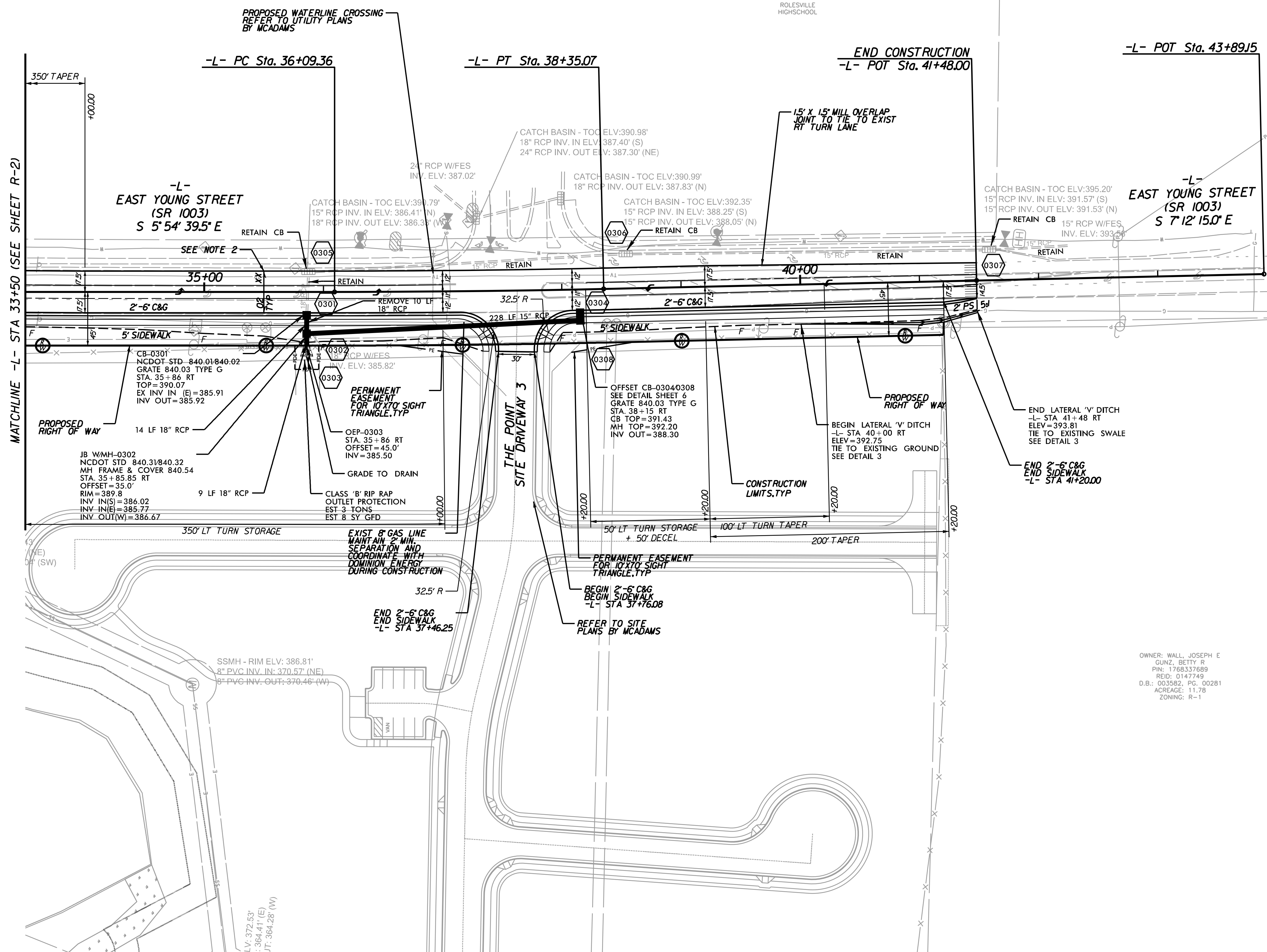
**EXULT**  
 ENGINEERING  
 NC License #C-4445  
 304-F W. Millbrook Rd  
 Raleigh, NC 27609  
 Tel: (919) 984-5426

THE POINT  
 ROADWAY IMPROVEMENTS  
 ROLESVILLE, NORTH CAROLINA

EAST YOUNG STREET  
 ROADWAY IMPROVEMENTS



OWNER: WALL, JOSEPH E  
 GUNZ, BETTY R  
 PIN: 1768337689  
 REID: 0147749  
 D.B.: 003582, PG. 00281  
 ACREAGE: 11.76  
 ZONING: R-1



SUNSET MANOR  
 SUBDIVISION  
 ZONING: R-1

ROLESVILLE  
 HIGH SCHOOL

END CONSTRUCTION  
 -L- POT Sta. 41+48.00

-L- POT Sta. 43+89.15

-L- EAST YOUNG STREET  
 (SR 1003)  
 S 7'12\"/>

MATCHLINE -L- STA 33+50 (SEE SHEET R-2)

-L- PC Sta. 36+09.36

-L- PT Sta. 38+35.07

-L- EAST YOUNG STREET  
 (SR 1003)  
 S 5'54\"/>

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

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PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

MILL AND TIE TO EXISTING

NOTES:  
 1. RADI DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS).  
 2. CROSS SLOPES VARY FROM -L- STA. 18+45 LT TO 41+48 LT TO TIE TO EXISTING C&G.  
 REFER TO CROSS SECTIONS.

DATE	INITIALS	DATE	INITIALS
02/18/21	EWL	06/02/21	

DESIGNED BY: E. LYNCH  
 REVIEWED BY: E. LYNCH  
 JOB NO.: 00043003  
 SHEET NO. R-3