



AGENDA

DATE Monday, August 19, 2019

TIME 6 pm

LOCATION Council Chambers, Raleigh Municipal Building, 222 W Hargett Street, Raleigh, NC 27601

I. Introductions

II. Approval of Minutes from Previous Meeting

III. Public Comments

This is an opportunity for public comment on items or issues that are otherwise not on the agenda.
Please limit comments to three minutes per speaker.

IV. Staff Reports

- Council Update
- Bikeshare Update
- Projects Update

V. Committee & Member Reports

- Chair's Report
- Bicycle Planning Committee
- Community Outreach Committee
- Pedestrian Planning Committee – Streetscape Candidate Projects and Prioritization

VI. Old Business

- Bicycle Parking Standards – Travis Crane, Raleigh Planning Department

VII. New Business

- 2019 Resurfacing Program Review – Paul Black, Raleigh Transportation Dept.
- Walktober Planning – Paul Black, Raleigh Transportation Dept.

VIII. Board Comments

IX. Elections of Chair and Vice-Chair

X. Announcements

- Upcoming Events
- Confirmation of Next BPAC Meeting – Monday, September, 16 2019 at 6pm

XI. Adjournment





Raleigh Bicycle & Pedestrian Advisory Commission

DRAFT MEETING MINUTES

DATE Monday, July 15, 2019
TIME 6 pm
LOCATION Council Chambers, Raleigh Municipal Building
222 W Hargett Street, Raleigh, NC 27601

PRESENT

Commission Members

Susan Hatchell, Chair
Mary Sell, Vice-Chair
Paul Nevill
Nick Neptune
Rebecca Proudfoot
Pierre Tong
Kelly Woodall

Staff

Paul Black, Bicycle and Pedestrian Program
Manager
Fontaine Burruss, Bikeshare Coordinator
Eric Lamb, Transportation Planning Manager
Reyna Nishimura, Staff Assistant

Council Liaison

David Cox, City Council

ABSENT

Elizabeth Alley (excused)
Dwight Otwell (excused)
Robert Parrish (unexcused)

I. Introduction

Ms. Hatchell called the meeting to order at 6:05 pm and asked everyone to introduce themselves and what committee they belonged to.

II. Approval of Minutes

Mr. Nevill moved for approval of the minutes which was properly seconded by Ms. Sell and was approved by unanimous voice vote.

III. Public Comments

None



Raleigh Bicycle & Pedestrian Advisory Commission

IV. Staff Reports

Council Update

Mr. Lamb reported that the 2019-2020 BPAC Work Plan was presented to City Council by Mr. Otwell on 7/2. City Council had questions about the contents of the work plan and referred the item to the Transportation & Transit Committee for their 8/27 meeting. An updated version of the BPAC Work Plan was distributed to members of the commission. Ms. Sell requested a digital version of the work plan. Mr. Lamb will provide.

Bikeshare Update

Ms. Burruss listed the locations of several newly installed bikeshare stations. The final 6 stations are to be installed in the coming weeks. Ms. Burruss provided the commission with current ridership data.

Bike Month Review

Staff provided the commission with a summary, logistics and related news articles pertaining to all the Bike Month events. Mr. Black stated that staff were already working with the Parks, Recreation and Cultural Resources Department in planning next year's Bike Month. Mr. Nevill conveyed feedback from the Light Up the Night event that it was overcrowded. Mr. Black clarified that while it was not a City sponsored event, next year there would most likely be a change to the ride's staging area and potentially a request for police escorts.

Projects Update

Staff provided a comprehensive listing of City projects and their current statuses to the commission. Several projects in production had been authorized as part of the 2017 Transportation Bond. Mr. Lamb expounded on the planned pedestrian improvements along New Bern Avenue this summer. Ms. Sell inquired whether a column could be added to the project listing denoting projects without the standard painted bicycle facility. Mr. Lamb stated staff could provide that breakdown. Mr. Tong asked how citizens could request the filling in of microgaps. Mr. Lamb stated that the public can contact Mr. Lamb's office directly.

Mr. Neville asked whether the commission would need to review the Crabtree Creek-Lassiter Mill Extension design plans, since they had previously reviewed the project regarding wayfinding signage. Mr. Lamb stated he could relay the outcome of the wayfinding discussions, and the commission could decide if they wanted to review the plans again. Mr. Nevill asked for confirmation on whether the Walnut Creek Trail-Trailwood segment was completed. Mr. Black detailed which part of the trail was still incomplete.

Mr. Neville asked how many resurfacing projects were planned for the year. Mr. Lamb stated that there were 4 planned. Mr. Tong inquired about plans to work with NCDOT on Ebenezer Church Road/Glenwood Avenue. Mr. Lamb stated the City is coordinating with NCDOT on an improvement project on Glenwood Avenue between Millbrook Road and I-540. There will be construction of both sidewalks and multiuse trails along each side of Glenwood Avenue. This will overlap with a City funded project at Ebenezer Church Road where bicycle and pedestrian improvements are being done. NCDOT is completing the planning phase for their project, with a construction year of 2028. Mr. Lamb stated that the City's project will be on the ground before theirs.

V. Committee & Member Reports

Chair's Report

Ms. Hatchell reported that she attended the Smart Growth and Water Resource Collaborative Meeting on 6/20 to discuss how complete streets and smart growth can interface with stormwater and water resources. She also attended the BikeWalk Audit on 6/21 to research walkability and bikeability between the train stations in Raleigh. The event was sponsored by the Triangle J Council of Government and Ms. Sell provided background on the event.

Ms. Hatchell requested that action items be summarized and documented at the end of each BPAC meeting. Ms. Hatchell would like each committee to list their top 3 work plan priorities. Ms. Hatchell advised commissioners to think about what committee they would like to be placed in after the election.

Bicycle Planning Committee

Mr. Tong stated the committee received an update on the neighborhood bikeway that has been proposed between Ridge Road and the 5 Points area. The committee also met with the Pedestrian Committee to discuss the Downtown Plan.

Community Outreach Committee

Ms. Proudfoot stated the committee discussed their work plan and listed their action items in order of priority. Mrs. Proudfoot suggested that people begin considering if there were any Walktober events they would like to promote and/or sponsor.

Pedestrian Planning Committee

Mr. Black stated that the committee discussed the Downtown Plan, however, they will wait until Mr. Otwell is present to discuss. There was a presentation by Jason Myers regarding streetscape

prioritization methodology, realigning new projects based on funding and how project scopes may have changed since inception. Ms. Sell suggested that the Bicycle Planning Committee head up the Downtown Plan conversation. Ms. Hatchell stated that the Bicycle Planning Committee is working with the Pedestrian Planning Committee on Downtown Plan recommendations to bring to the commission. Ms. Sell advised that the recommendations be made in conjunction with the timeline that GoRaleigh is on. Mr. Nevill referenced the previous meeting's minutes regarding GoRaleigh's timeline.

VI. Old Business

Bicycle Parking Standards-Travis Crane, Raleigh Planning Department

Mr. Crane was unavailable, and the presentation was postponed until the August BPAC meeting.

VII. New Business

Molok Trash Collection Bins-Stan Joseph, City of Raleigh Solid Waste Services Department

Mr. Stanley described existing problems with downtown trash carts and expounded on the goal to drastically reduce their numbers through sustainable and efficient means. Molok trash bins are above ground receptacles with underground reservoirs. In use throughout Europe, Raleigh would be the first city in the United States to use the Molok bins. Trash and recycling bins are currently at the Wilmington Street/Hargett Street intersection. It was determined beforehand that the location would not be an impediment for cyclists, pedestrians and buses.

Ms. Hatchell asked if the installed bins displaced any parking or driving lanes. Mr. Kallam stated that the site took over a no parking zone. Mr. Neptune asked how future sites would be identified and prioritized. Mr. Stanley stated that once they receive data halfway through the year-long pilot they could look at other potential sites. Consideration would be given to locations that best serve the population and the Transportation and Solid Waste Departments would then discuss a master plan. Ms. Sell asked how that process could be planned when there were projects that would impact downtown that have yet to be implemented. Mr. Stanley stated that his department was working very closely with the Transportation Department to ensure that nothing was overlooked, and a solid design plan could be created before new construction occurs. Mr. Stanley stated that this was a collaborative project between 4 departments.

Mr. Kallam suggested future coordination with private entities for use of their property. Ms. Sell asked how the bins were serviced. Mr. Stanley stated that there was an underground sensor that sent email alerts to staff as capacities were reached. Mr. Stanley stated they have 12 premier partners currently

using the Molok bins. Mr. Nevill confirmed the location of the bins. Ms. Woodall, Ms. Sell and Ms. Hatchell all voiced enthusiasm for the project.

Harrington St./W. Lane St. Pedestrian Recommendations-Eric Lamb, City of Raleigh Transportation Department

This item was referred to staff by City Council after a citizen expressed concern regarding pedestrian accessibility around the Harrington Street/Lane Street intersection. Due to construction of the Metropolitan Apartments, portions of adjacent sidewalk were closed. The City installed a temporary 3-way stop at the Harrington Street/Lane Street intersection and laid heavy, rubberized mats as a temporary pedestrian accessibility option while the sidewalk on the south side of Lane Street was closed. The matting was pulled up once work was completed, at which time a citizen reported to City Council that they had lost pedestrian accessibility. The City restored the multi way stop at that location and had initially looked to install sidewalk permanently on the west side of Harrington Street with the goal of having connectivity across the railroad tracks to existing sidewalk. Installation of sidewalk along the east side of Harrington was deemed not desirable due to incline and railroad grading.

Mr. Lamb explained that Glenwood south was seeing a lot of development, so the City was opting to wait for private development to go in on the west side and install permanent sidewalks. For that reason, the City was not making a recommendation to construct a sidewalk. One proposed idea was to restricting parking on both sides of Harrington Street and install a white edge line as a low-fi pedestrian solution, however, they could not guarantee ADA compliance. The City discussed returning to the use of the rubberized mats and the current property owners (GoTriangle) were receptive to this. Mr. Lamb opened the floor to any questions or alternative recommendations the commissioners had.

Ms. Hatchell asked whether a new occupant of the GoTriangle building would be mandated to do ADA upgrades. Mr. Lamb stated that because it is an existing building and the City has different site plan standards, it would depend on what type of upfit it was. Mr. Nevill expressed concerned on the impact to the Harrington Street cycletrack. Mr. Lamb stated that the cycletrack was set to terminate at Lane Street. The goal is to extend the cycletrack to Peace Street, however, coordination with the railroad company was needed. The preferred option would be for the cycletrack to turn from Harrington Street and continue up North Street.

Ms. Sell asked how locations fitted with new stop signs were being identified for installation and how enforcement of vehicles at the new stop was being carried out. Mr. Black stated that within the downtown district there were specific times and locations where data showed an uptick in pedestrian incidents. Mr. Black could not confirm if the new stop signs were involved, however, he stated RPD paid more attention to areas identified as pedestrian hotspots. Mr. Lamb stated that a lot of times stop signs come about by citizen request.

City staff looked at crash and traffic characteristics to determine whether a 4-way stop would be appropriate. The City had done some expansion of 4-way stops in downtown's warehouse district once Raleigh Union Station was opened. Mr. Lamb stated older traffic signals on the edges of downtown are being replaced with multiway stops. The results were positively received by the neighborhoods in terms of moderating traffic, helping improve operations for pedestrians crossing the street and removing operating costs associated with traffic signal maintenance. Ms. Sell asked if the recaptured costs could be applied towards stormwater investments. Mr. Lamb stated that the funds were not interchangeable.

Ms. Woodall asked how wide the rubberized mats were and whether they would hang over the curb. Mr. Lamb stated they were 4' and did hang over the curb to create an interim ADA ramp. Ms. Woodall stated that she had concerns about someone in a wheelchair hitting the curb and tipping over. Mr. Black stated that the mats would carry over the lip of the curb. Ms. Proudfoot applauded that the City was looking at this location and suggested proposing a deadline for the temporary fix. Mr. Lamb discussed some of the planned changes to that section of downtown and connectivity.

VIII. Board Comments

Ms. Hatchell stated that Mr. Otwell spoke to the RPD liaison concerning the child that was struck on Strickland Road at a previous public comment and was prepared to discuss RPD's policies and procedures. She will let him speak to that at the next meeting.

IX. Announcements

Upcoming Events

- Glenwood Avenue Improvements (Millbrook Road-Lumley Road) Open House, July 22, 4-7pm at the Embassy Suites (8001 Arco Corporate Dr, Raleigh, NC 27617)
- Citrix Cycle Station Celebration, July 22, 12-2pm at Transfer Co. Food Hall in downtown Raleigh
- Bull Moon Ride & Run, August 3, 7:30pm at the Durham Bulls Athletic Park
- Neighborhood Bikeway Open House, August 13, 4-6pm at Dove and Olive Mercantile



Ms. Hatchell found that the current action items were traffic accident investigation and ongoing discussion pertaining to the Downtown Plan. Both topics were ones that Mr. Otwell was to speak on.

Ms. Hatchell announced that the next BPAC meeting will take place on Monday, August 19, 2019. The annual election will take place at the close of the next BPAC meeting. With no further business, the meeting adjourned at 7:07 pm.

Respectfully submitted,
Reyna Nishimura

MEETING MINUTES

DATE July 11, 2019

PRESENT Commissioner Dwight Otwell, Commissioner Pierre Tong, Don Berryann (visitor)

STAFF Paul Black

LOCATION Raleigh Municipal Building – Room 419 (222 West Hargett Street)

START TIME 1:00 pm

The Committee went over the SPOT 6 process and project submittal for the current cycle, then went over the upcoming LAPP process. Both of these are competitive funding programs for federal funding through the Capital Area Metropolitan Planning Organization (CAMPO).

Mr. Black presented on the Cross Town Neighborhood Bikeway, and noted that an open house date and location have been set.

Commissioner Otwell asked about crossings and signals and noted downhill issues for cyclists. He noted a number of MidTown locations and asked about LPI, safety, if motor vehicle delay was quantified, and ped compliance with the signals as adjusted.

The next Bicycle Planning Committee meeting will be held on Monday, August 19, 2019 at 5:00 pm in Room 419 of the Raleigh Municipal Building (222 West Hargett Street).

END TIME 2:00 pm





BICYCLE & PEDESTRIAN ADVISORY COMMISSION
COMMUNITY OUTREACH COMMITTEE

MEETING MINUTES

DATE Thursday, July 11, 2019
TIME 6:10
LOCATION Room 419, Raleigh Municipal Building
222 W Hargett Street, Raleigh, NC 27601
MEMBERS Paul Nevill, Rebecca Proudfoot (Chair), Nick Neptune
STAFF Mary "Bee" Persson

Prioritize Action Plan for Outreach Committee

1. Visit and present to community groups of various types throughout the year
 - o Citizen Advisory Councils (CAC): Members will choose a CAC to contact and meet.
2. Promote public participate and interaction with bike/pedestrian initiatives, such as Bike Month activities, bikeshare, Walktober, sidewalk funding and expansion process, and Open Streets events
 - o Cemetery
 - o Sustainability
 - o SE Raleigh History Tour
 - o Transfer Food Hall Past and Future walk
 - o Walk Your Pet at Dix
 - o Walk to School Day
3. Support public involvement and improve accessibility to BPAC committee materials and meetings
4. Promote and attend Safe Routes to School initiatives and attend Bike to School and Walk to School activities
5. REMOVED: Initiate a Speaker Series of national experts to discuss strategic and innovative transportation topics, including transit, bicycling and walking, and housing equity

Discussed SE Raleigh and Transfer walkability

Discuss role of BPAC and purpose of Outreach Committee

Event: Crosstown Neighborhood Bikeway Open House.

August 13, 4 -6 with a ride afterwards

The next Community Outreach Committee meeting will be held on Thursday, August 8th, 2019 at 6:00 pm in Room 419 of the Raleigh Municipal Building (222 W Hargett Street).

End: 7:05



MEETING MINUTES

DATE July 11, 2019

PRESENT Commissioner Alley, Commissioner Kelly Woodall, Commissioner Dwight Otwell, Commissioner Pierre Tong

STAFF Jason Myers, Paul Black, Fontaine Burruss

LOCATION Raleigh Municipal Building – Room 419 (222 West Hargett Street)

START TIME 1:00 pm

Discussion of streetscape prioritization (joint with Bike Committee)

The committee went over the draft streetscape priority method change proposal. Jason Myers went over the changes to the project list and reasons for breaking up 2013 projects into smaller pieces (often corridor or small area plans) and why projects from 2013 were removed (BRT, complete or in process, or they do not fit the streetscape program and belong in other programs)

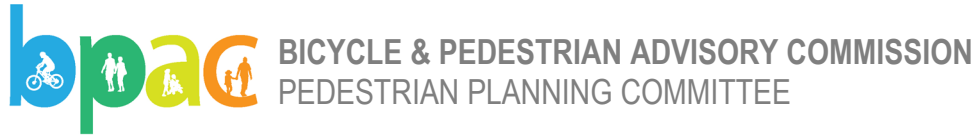
Commissioner Alley asked about equity screen on projects—Mr. Myers noted we just used demand score from the pedestrian plan and not the need score that would address equity issues. Commissioner Alley asked about funding sources. Jason went over basic programs in the budget. Then he asked the committee to provide feedback on the streetscape prioritization changes to Paul Black. In the meantime Jason will look into equity scoring options and bring them back to the committee.

There was discussion on when this item would go to the full BPAC. Commissioner Alley noted she would not be able to attend the next regularly scheduled meeting on August 8th and asked if we could move the meeting to 15th at 1 pm. Commissioner Woodall said that was no problem.

Discussion of downtown plan (joint with Bike Committee)

Commissioner Otwell explained downtown greenway map concept that came from an informal brainstorming session with Commissioner Sell. It concentrated on key connections to the greenway system going through downtown—one east-west connecting Rocky Branch to the Little Rock Trail and two north-south to connect Rocky Branch/Walnut Creek to the future Devereaux/Pigeon House Branch greenway.





Commissioner Alley asked if there was any consideration of Morgan. Commissioner Otwell said that it was more about picking an east-west corridor. Commissioner Alley asked if there were any other fixes like lowering speed limits on certain streets? Why are those not in the plan [downtown] plan? We can make more low stress roads instead of just mapping the existing ones. Are there any ped recommendations? What is plan to identify where we are exacerbating already substandard sidewalks in many places.

Commissioner Tong--they wanted an endorsement of the direction--and we didn't like the overall direction based on what was presented.

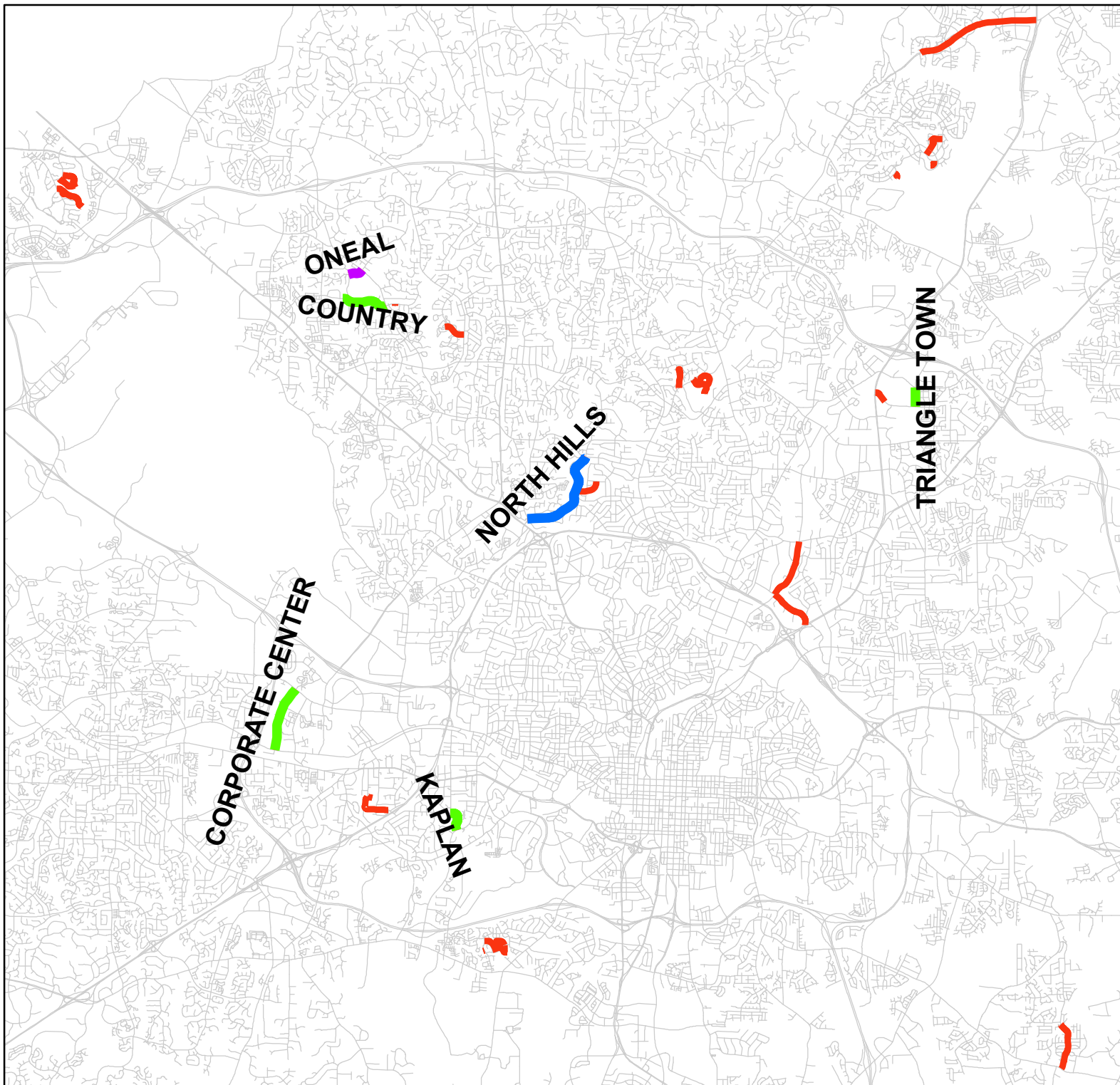
Commissioner Otwell asked what action we need to take.

The two committees decided to bring it up at BPAC as "the result of some brainstorming" and would the BPAC want to consider it? If so could we ask to send it to those working on the Downtown Mobility Plan to consider?

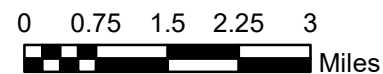
The next Pedestrian Planning Committee meeting will be held on Thursday, August 15, 2019 at 1:00 pm in Room 405 of the Raleigh Municipal Building (222 West Hargett Street).

END TIME 2:30 pm





Street	From	To	Facility	LengthInFeet
North Hills Dr	Lead Mine Rd	Shelley Rd	Buffered Bike Lanes/Sharrows	8030
Triangle Town Blvd	Sumner Blvd	Old Wake Forest Rd	Buffered Bike Lanes	569
Corporate Center Dr	Chapel Hills Rd	Trinity Rd	Buffered Bike Lanes	1943
Country Trl	Leesville Rd	End Maint #5131	Buffered Bike Lanes	3575
Oneal	Pride Way	Leesville Rd	Sharrows	453
Kaplan Dr	Gorman St	Kent Rd	Bike Lanes	665

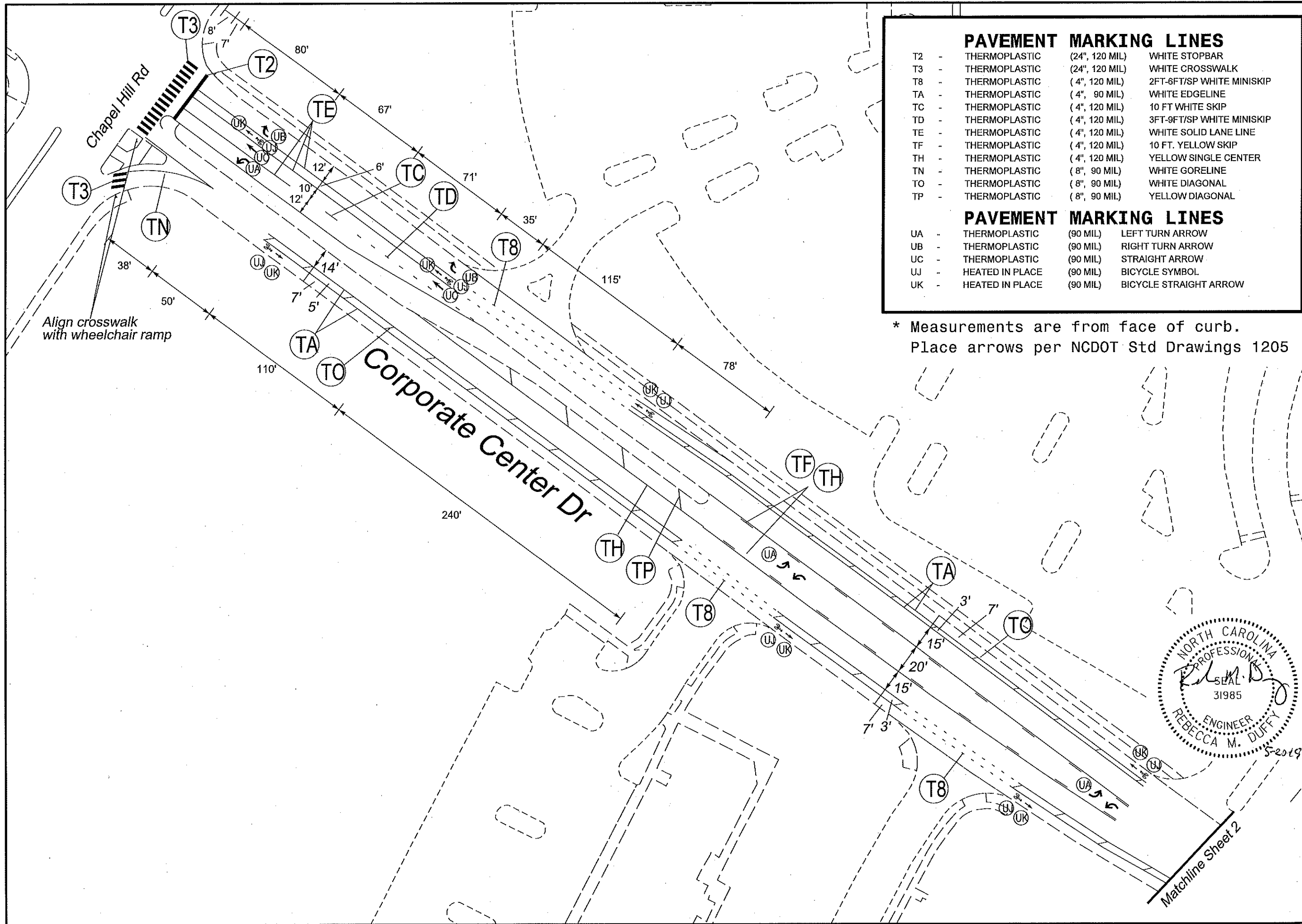


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City of Raleigh
Tranportation
Planning on
7/22/2019



2019 Resurfacing With Bicycle Facilities-Approx 2.9 Miles

- New Buffered Bike Lanes
- Shared Lane Markings
- Replace Existing Bike Lanes
- Other Resurfacing--No Bike Facilities
- Wake Street Centerlines



PAVEMENT MARKING LINES

T2	-	THERMOPLASTIC	(24", 120 MIL)	WHITE STOPBAR
T3	-	THERMOPLASTIC	(24", 120 MIL)	WHITE CROSSWALK
T8	-	THERMOPLASTIC	(4", 120 MIL)	2FT-6FT/SP WHITE MINISKIP
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TC	-	THERMOPLASTIC	(4", 120 MIL)	10 FT WHITE SKIP
TD	-	THERMOPLASTIC	(4", 120 MIL)	3FT-9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID LANE LINE
TF	-	THERMOPLASTIC	(4", 120 MIL)	10 FT. YELLOW SKIP
TH	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW SINGLE CENTER
TN	-	THERMOPLASTIC	(8", 90 MIL)	WHITE GORELINE
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL
TP	-	THERMOPLASTIC	(8", 90 MIL)	YELLOW DIAGONAL

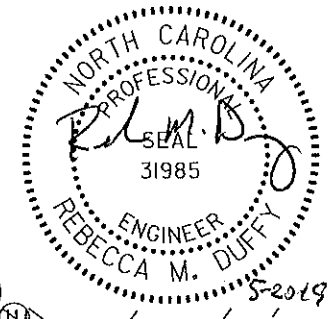
PAVEMENT MARKING LINES

UA	-	THERMOPLASTIC	(90 MIL)	LEFT TURN ARROW
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UJ	-	HEATED IN PLACE	(90 MIL)	BICYCLE SYMBOL
UK	-	HEATED IN PLACE	(90 MIL)	BICYCLE STRAIGHT ARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205

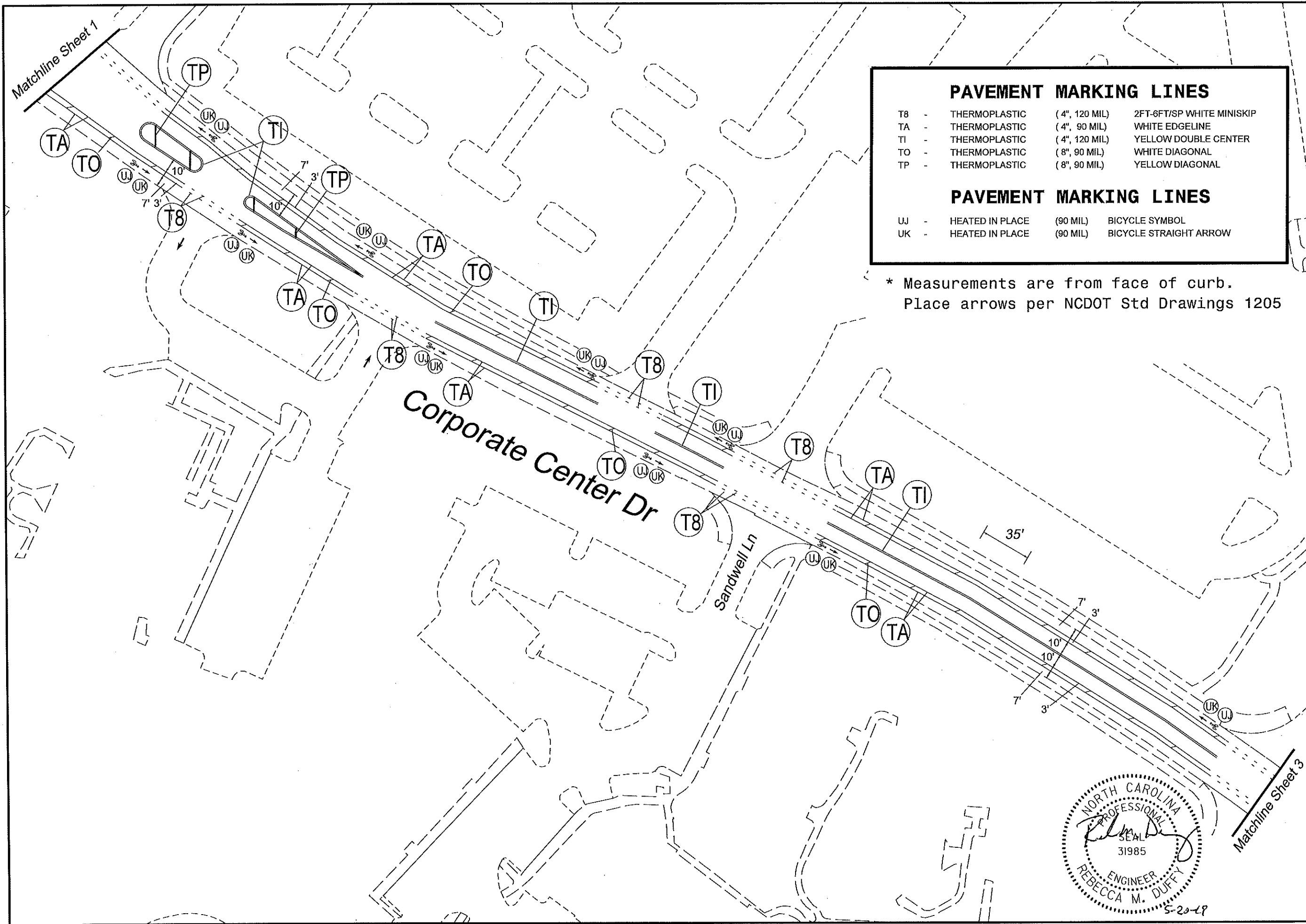


CORPORATE CENTER DR
Chapel Hill Rd to Trinity Rd



2019 Resurfacing
Pavement Marking Plans

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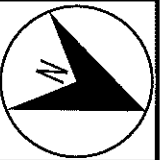
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TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL
TP	-	THERMOPLASTIC	(8", 90 MIL)	YELLOW DIAGONAL

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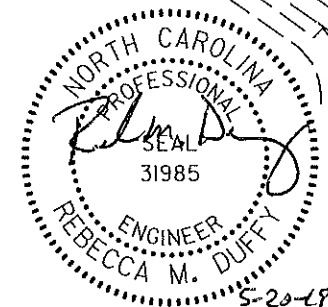
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* Measurements are from face of curb.
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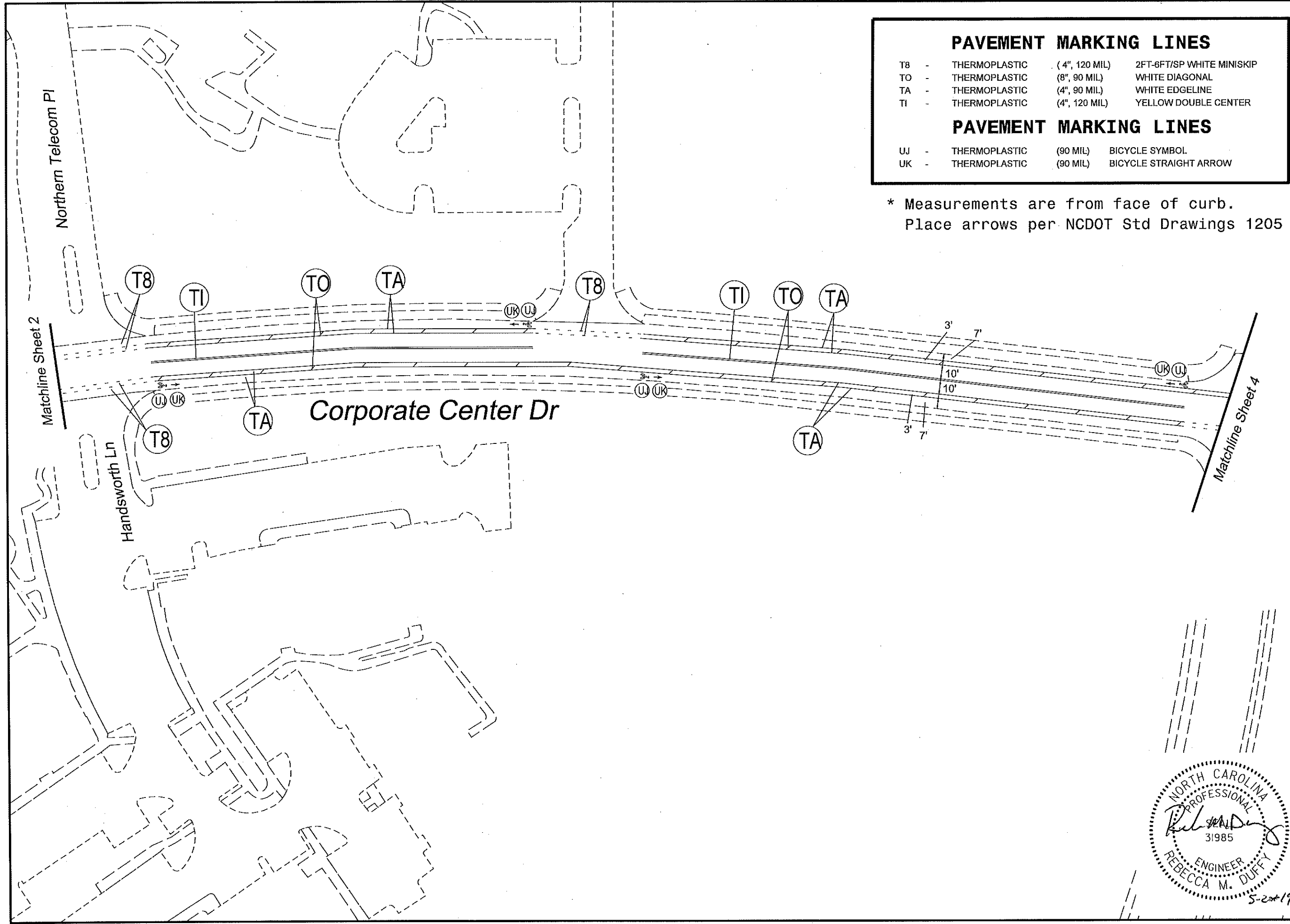


CORPORATE CENTER DR
Chapel Hill Rd to Trinity Rd



2019 Resurfacing
Pavement Marking Plans



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CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT



CORPORATE CENTER DR
Chapel Hill Rd to Trinity Rd

2019 Resurfacing
Pavement Marking Plans

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NORTH CAROLINA
PROFESSIONAL
REBECCA M. DUFFY
ENGINEER
31985
5-20-19

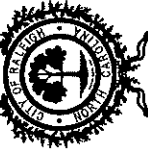
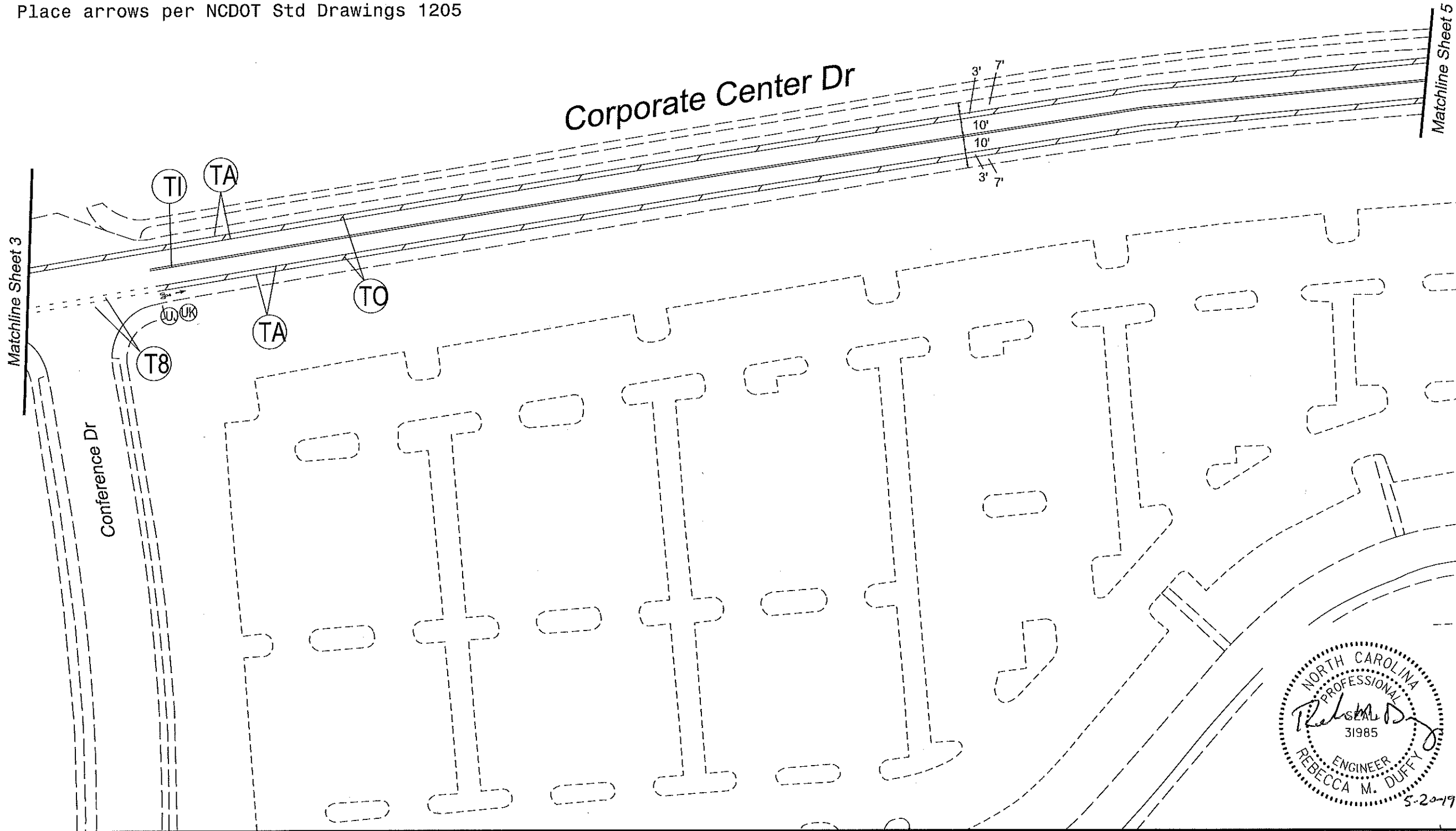
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PAVEMENT MARKING LINES

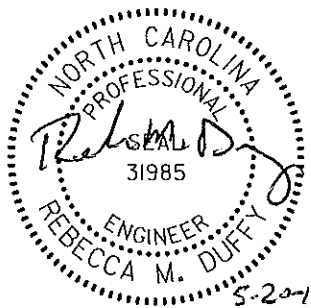
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* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



CORPORATE CENTER DR
Chapel Hill Rd to Trinity Rd

2019 Resurfacing
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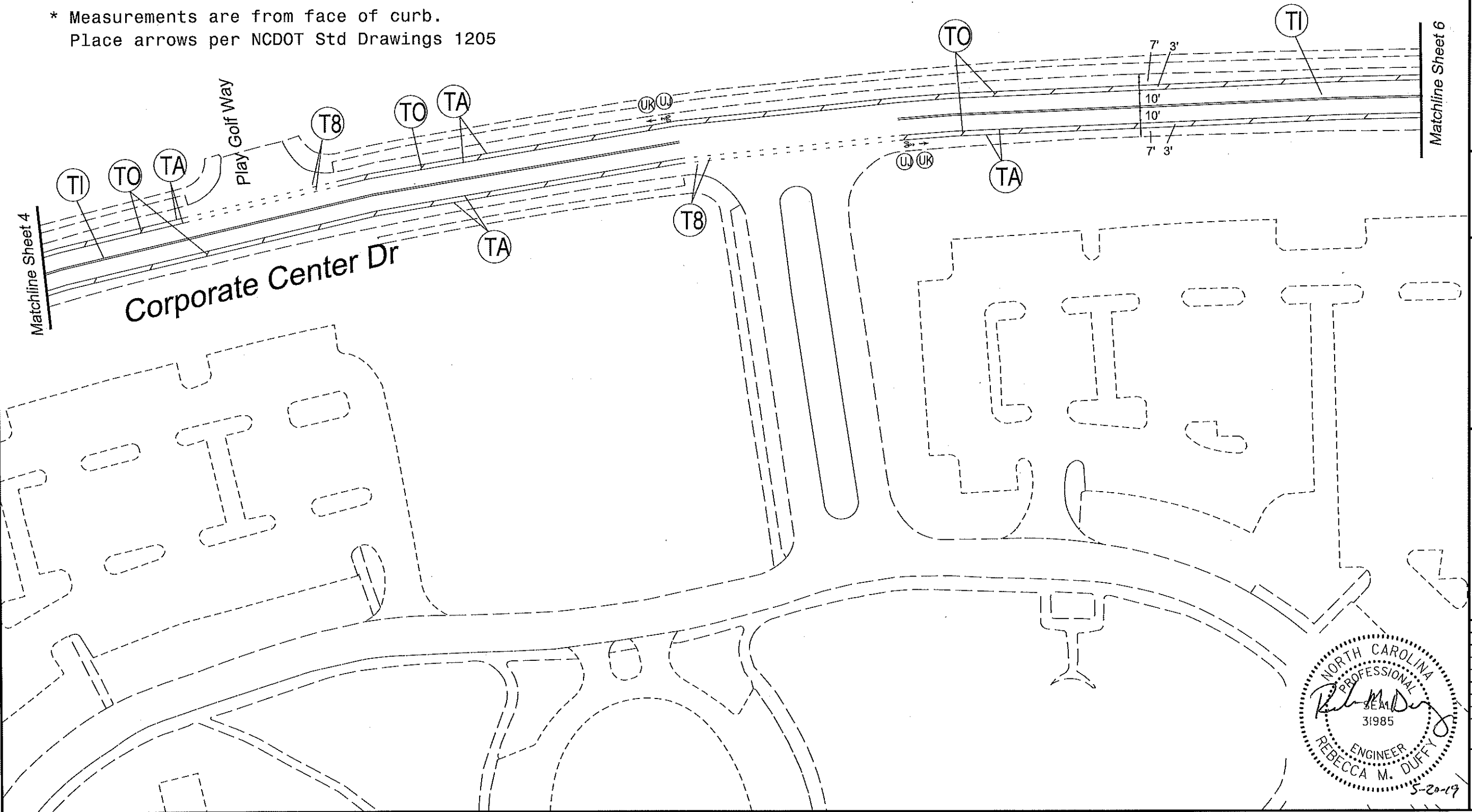
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TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL



PAVEMENT MARKING LINES

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* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT



CORPORATE CENTER DR
Chapel Hill Rd to Trinity Rd

2019 Resurfacing
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NORTH CAROLINA
PROFESSIONAL
REBECCA M. DUFFY
ENGINEER
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PAVEMENT MARKING LINES

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TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID LANE LINE
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

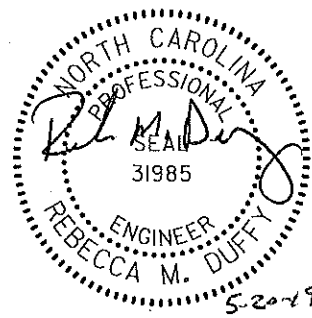
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* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



Trinity Rd

Matchline Sheet 5

Corporate Center Dr



CITY OF RALEIGH
PUBLIC WORKS DEPARTMENT

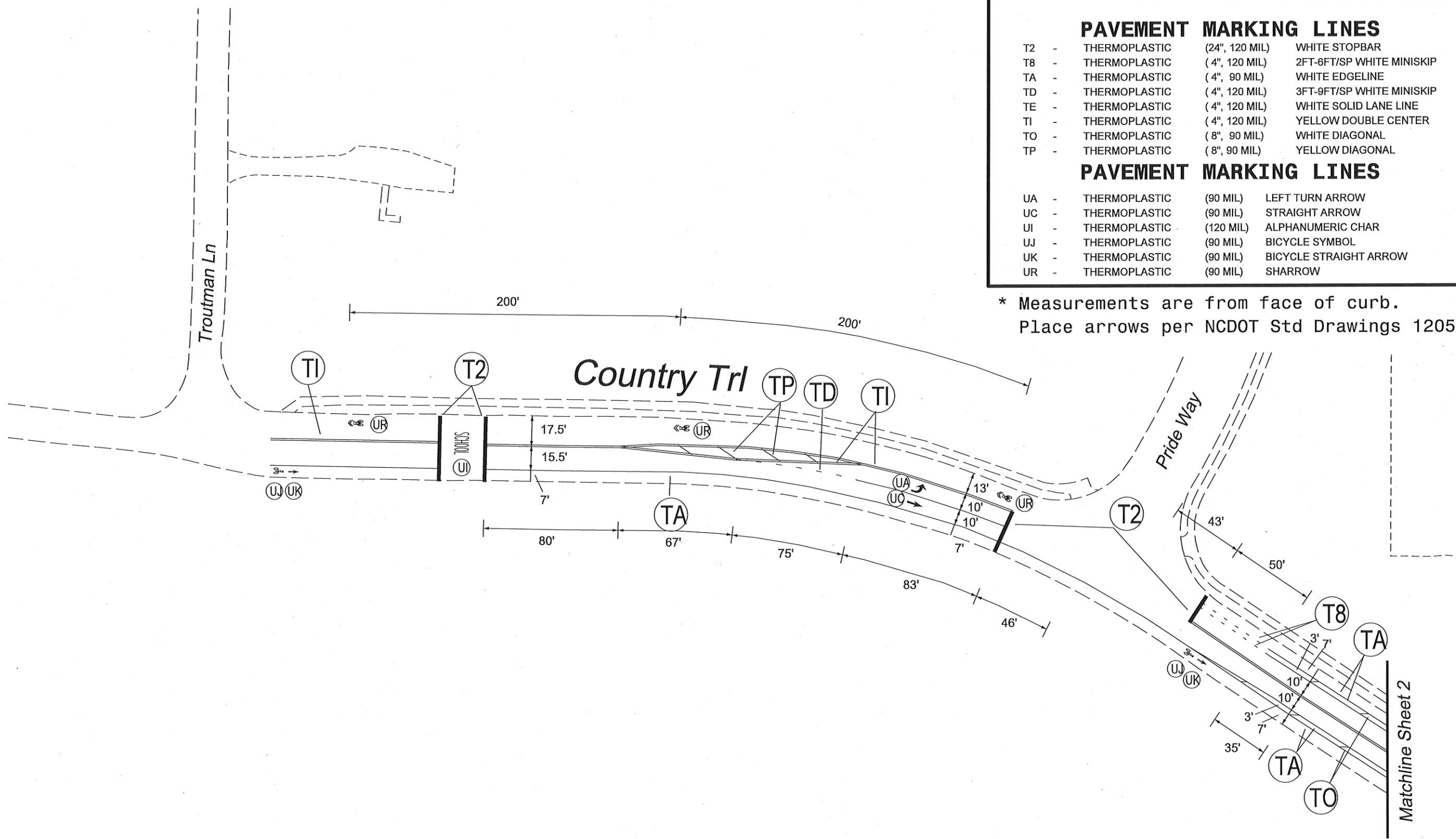


CORPORATE CENTER DR
Chapel Hill Rd to Trinity Rd

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SCALES	
HSCALE	
VSCALE	
SHEET NO.	

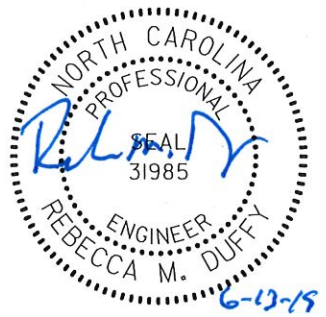
6



PAVEMENT MARKING LINES			
T2	-	THERMOPLASTIC	(24", 120 MIL) WHITE STOPBAR
T8	-	THERMOPLASTIC	(4", 120 MIL) 2FT-6FT/SP WHITE MINISKIP
TA	-	THERMOPLASTIC	(4", 90 MIL) WHITE EDGELINE
TD	-	THERMOPLASTIC	(4", 120 MIL) 3FT-9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC	(4", 120 MIL) WHITE SOLID LANE LINE
TI	-	THERMOPLASTIC	(4", 120 MIL) YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL) WHITE DIAGONAL
TP	-	THERMOPLASTIC	(8", 90 MIL) YELLOW DIAGONAL

PAVEMENT MARKING LINES			
UA	-	THERMOPLASTIC	(90 MIL) LEFT TURN ARROW
UC	-	THERMOPLASTIC	(90 MIL) STRAIGHT ARROW
UI	-	THERMOPLASTIC	(120 MIL) ALPHANUMERIC CHAR
UJ	-	THERMOPLASTIC	(90 MIL) BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL) BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL) SHARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



CITY OF RALEIGH
DEPARTMENT OF TRANSPORTATION

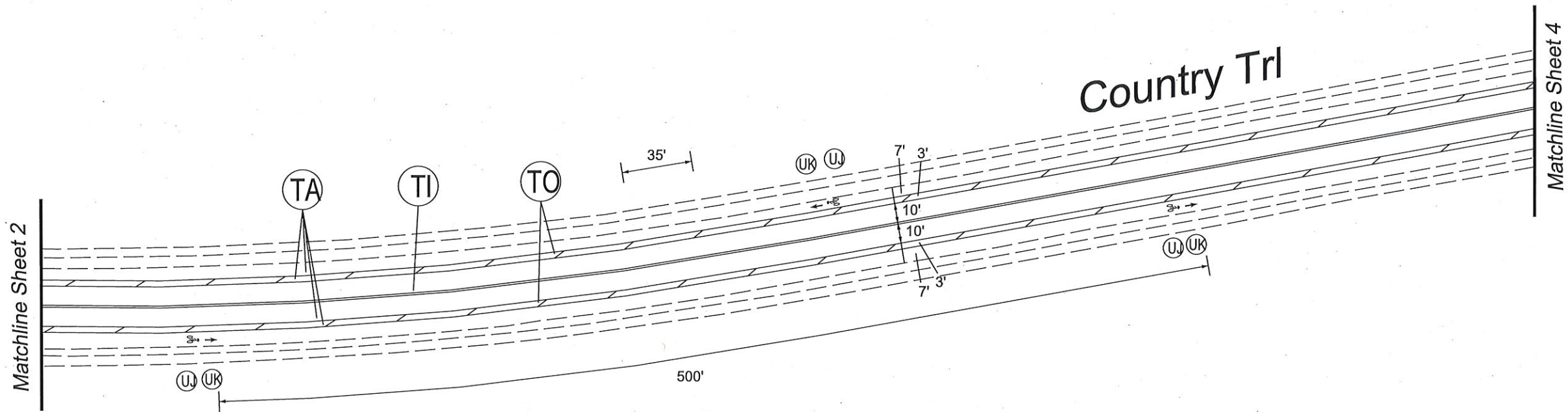
Country Trl
Leesville Rd to
End Maint #5131

2019 Street Resurfacing
Pavement Marking Plans

DATE: 3/2019
CADD TECH: RMD
CHECKED BY:
REVISIONS
NO. DATE
SCALES
HSCALE 1"=60'
VSCALE
SHEET NO.
1

PAVEMENT MARKING LINES			
TA	-	THERMOPLASTIC	(4", 90 MIL) WHITE EDGELINE
TI	-	THERMOPLASTIC	(4", 120 MIL) YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL) WHITE DIAGONAL
PAVEMENT MARKING LINES			
UJ	-	THERMOPLASTIC	(90 MIL) BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL) BICYCLE STRAIGHT ARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



CITY OF RALEIGH

DEPARTMENT OF TRANSPORTATION

Country Trl

Leesville Rd to

End Maint #5131

2019 Street Resurfacing

Pavement Marking Plans

DATE: 3/2019

CADD TECH: RMD

CHECKED BY:

REVISIONS

NO. DATE

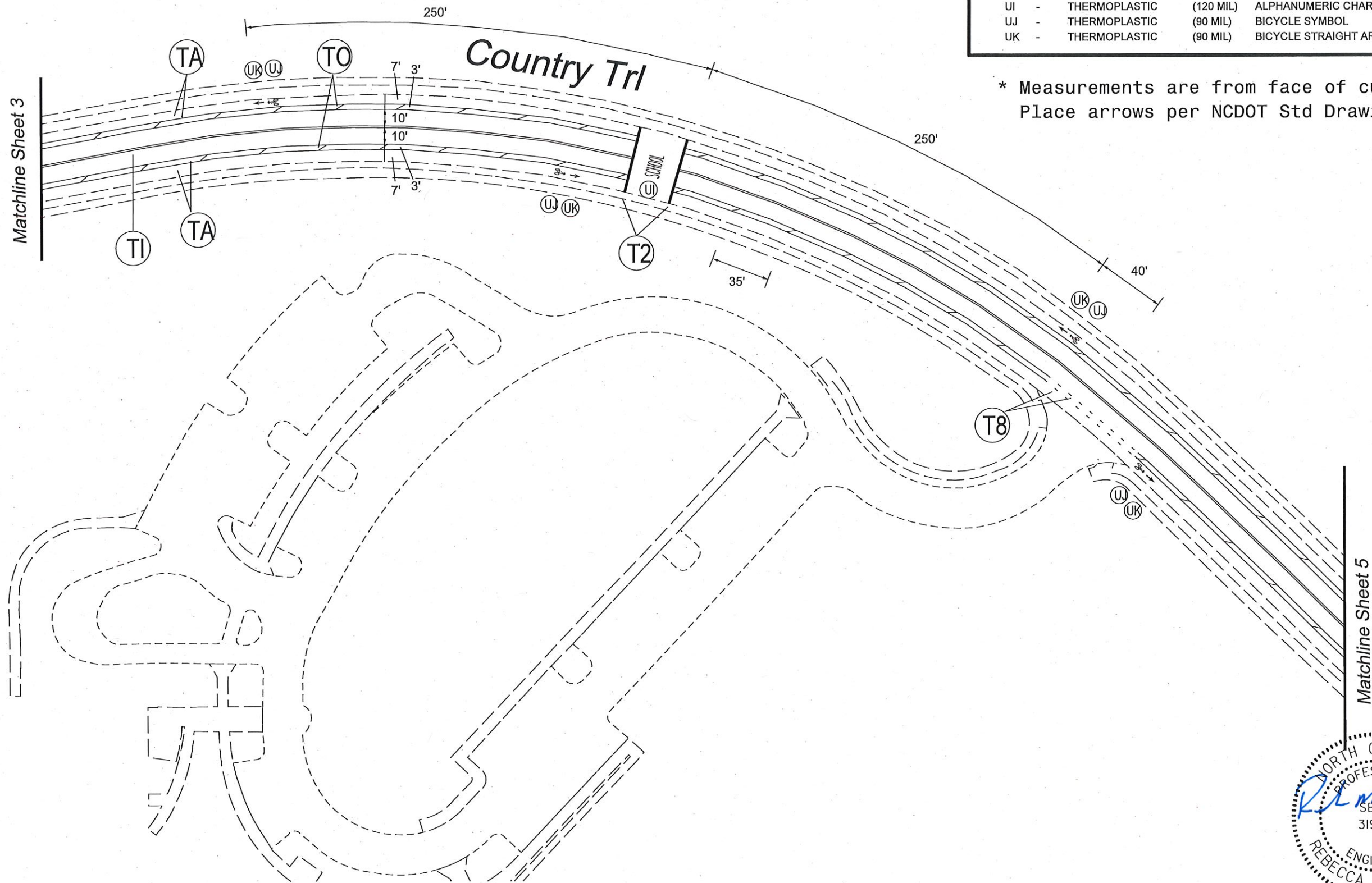
SCALES

HSCALE 1"=60'

VSCALE

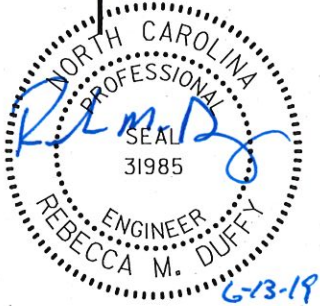
SHEET NO.

3



PAVEMENT MARKING LINES			
T2	-	THERMOPLASTIC (24", 120 MIL)	WHITE STOPBAR
T8	-	THERMOPLASTIC (4", 120 MIL)	2FT-6FT/SP WHITE MINISKIP
TA	-	THERMOPLASTIC (4", 90 MIL)	WHITE EDGELINE
TI	-	THERMOPLASTIC (4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC (8", 90 MIL)	WHITE DIAGONAL
PAVEMENT MARKING LINES			
UI	-	THERMOPLASTIC (120 MIL)	ALPHANUMERIC CHAR
UJ	-	THERMOPLASTIC (90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC (90 MIL)	BICYCLE STRAIGHT ARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



CITY OF RALEIGH
DEPARTMENT OF TRANSPORTATION

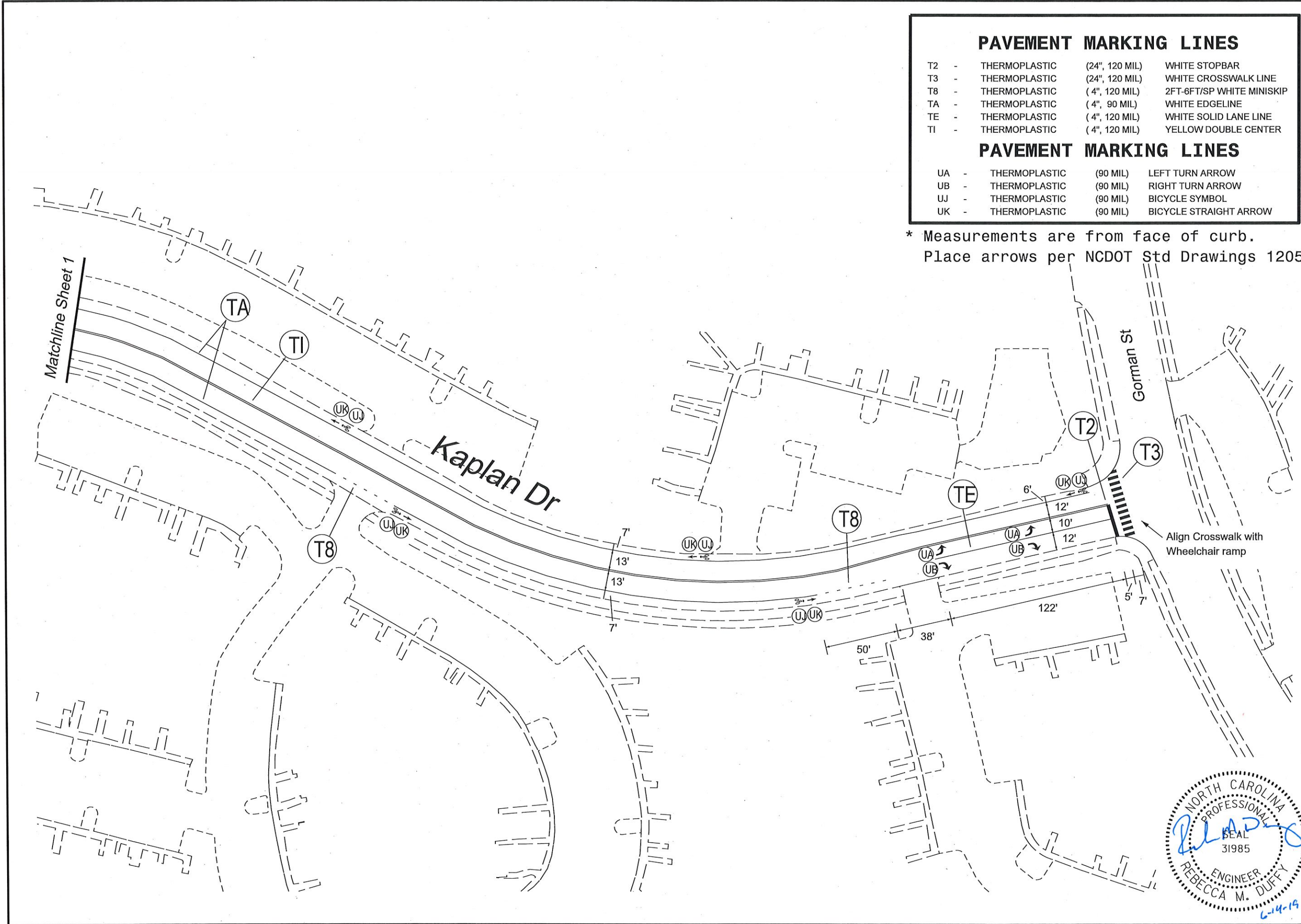
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Country Trl
Leesville Rd to
End Maint #5131

2019 Street Resurfacing
Pavement Marking Plans

DATE: 3/2019
CADD TECH: RMD
CHECKED BY:
REVISIONS
NO. DATE
SCALES
HSCALE 1"=60'
VSCALE
SHEET NO.

4



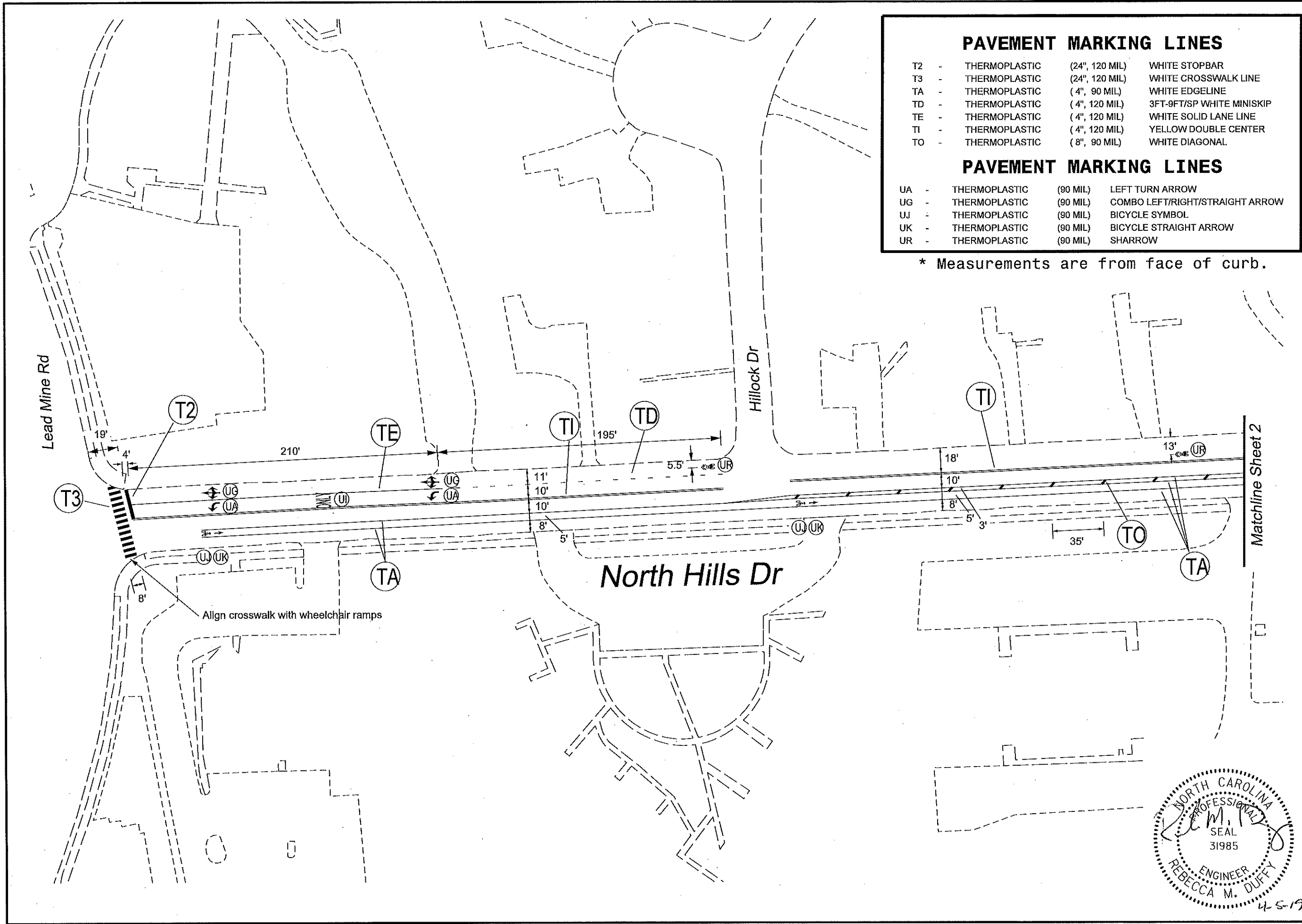
CITY OF RALEIGH
DEPARTMENT OF TRANSPORTATION

KAPLAN DR
Gorman St to Kent Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE: 3/2019
CADD TECH: RMD
CHECKED BY:
REVISIONS
NO. DATE
SCALES
HSCALE: 1"=60'
VSCALE: SHEET NO.
2

REBECCA M. DUFFY
ENGINEER
31985
6-14-19



PAVEMENT MARKING LINES

T2	-	THERMOPLASTIC	(24", 120 MIL)	WHITE STOPBAR
T3	-	THERMOPLASTIC	(24", 120 MIL)	WHITE CROSSWALK LINE
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TD	-	THERMOPLASTIC	(4", 120 MIL)	3FT-9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID LANE LINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

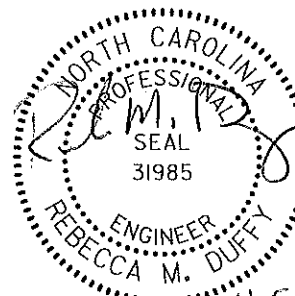
UA	-	THERMOPLASTIC	(90 MIL)	LEFT TURN ARROW
UG	-	THERMOPLASTIC	(90 MIL)	COMBO LEFT/RIGHT/STRAIGHT ARROW
UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL)	SHARROW

* Measurements are from face of curb.



North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans



DATE:	3/2019
DRAWN BY:	ROAD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE 1"=60'	
VSCALE	
SHEET NO.	

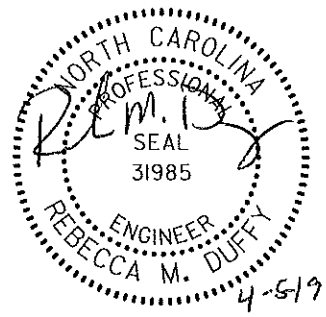
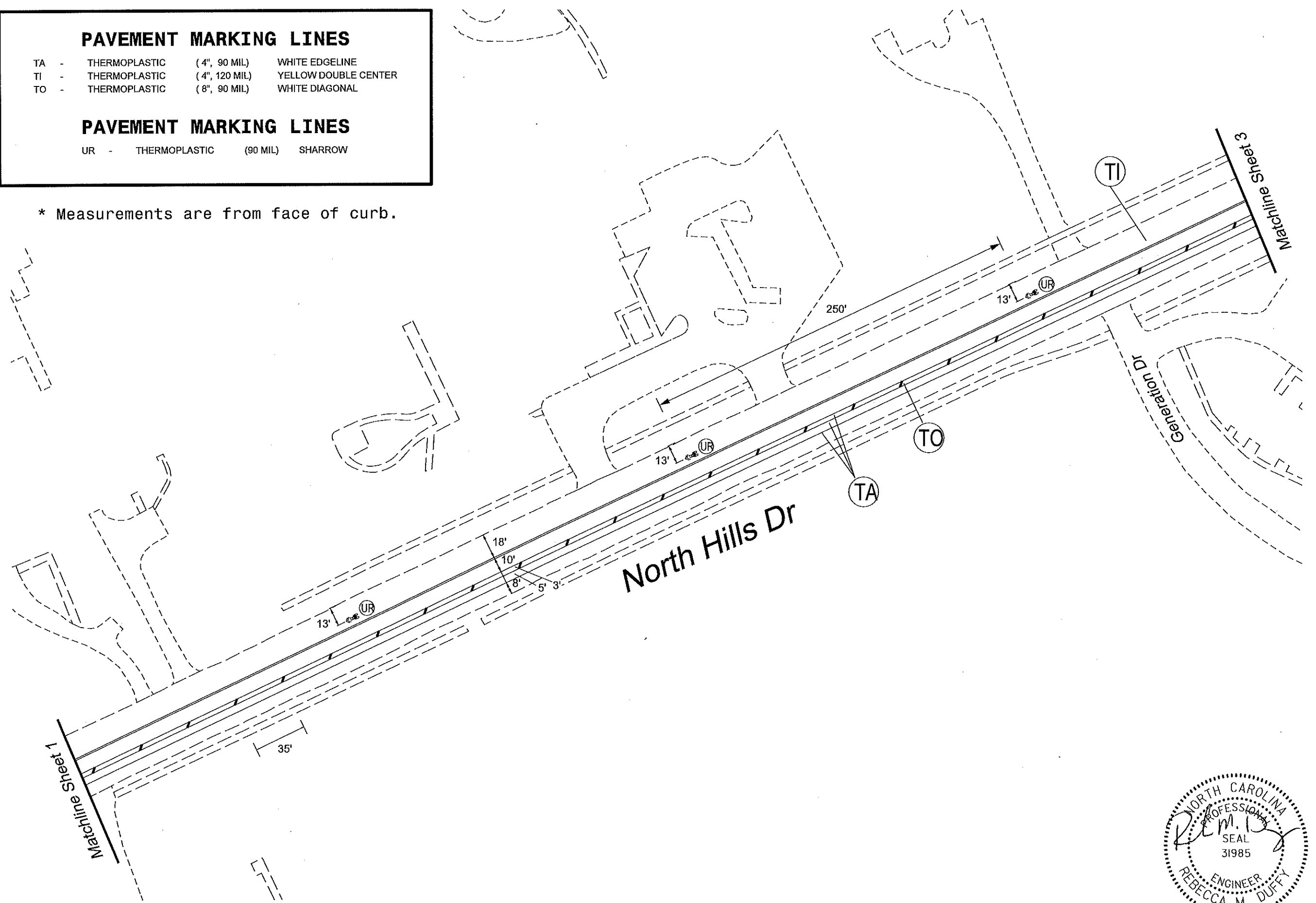
PAVEMENT MARKING LINES

TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGETLINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL



PAVEMENT MARKING LINES

UR	-	THERMOPLASTIC	(90 MIL)	SHARROW
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* Measurements are from face of curb.



CITY OF RALEIGH
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North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/20/19
CADD TECH:	RH40
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE:	1"=60'
VSCALE:	
SHEET NO.	

2

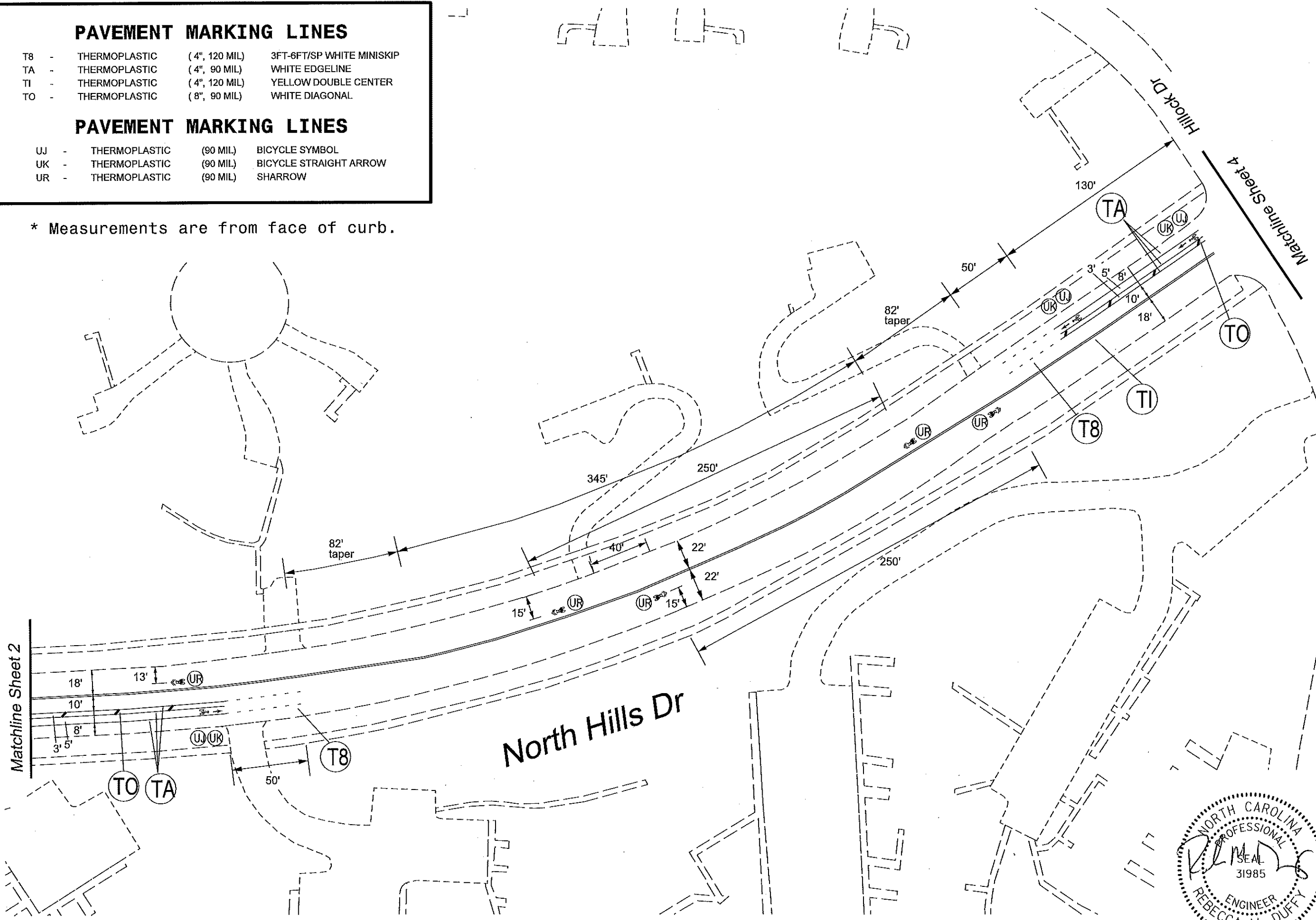
PAVEMENT MARKING LINES

T8	-	THERMOPLASTIC	(4", 120 MIL)	3FT-6FT/SP WHITE MINISKIP
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL)	SHARROW

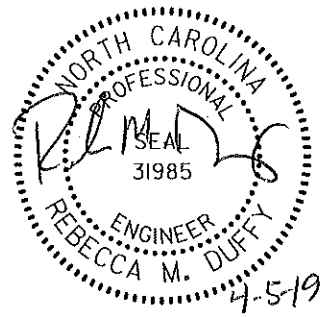
* Measurements are from face of curb.



North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
CADD TECH:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE	1"=60'
VSCALE	
SHEET NO.	
3	



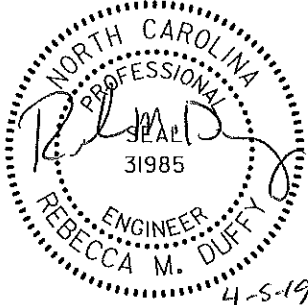
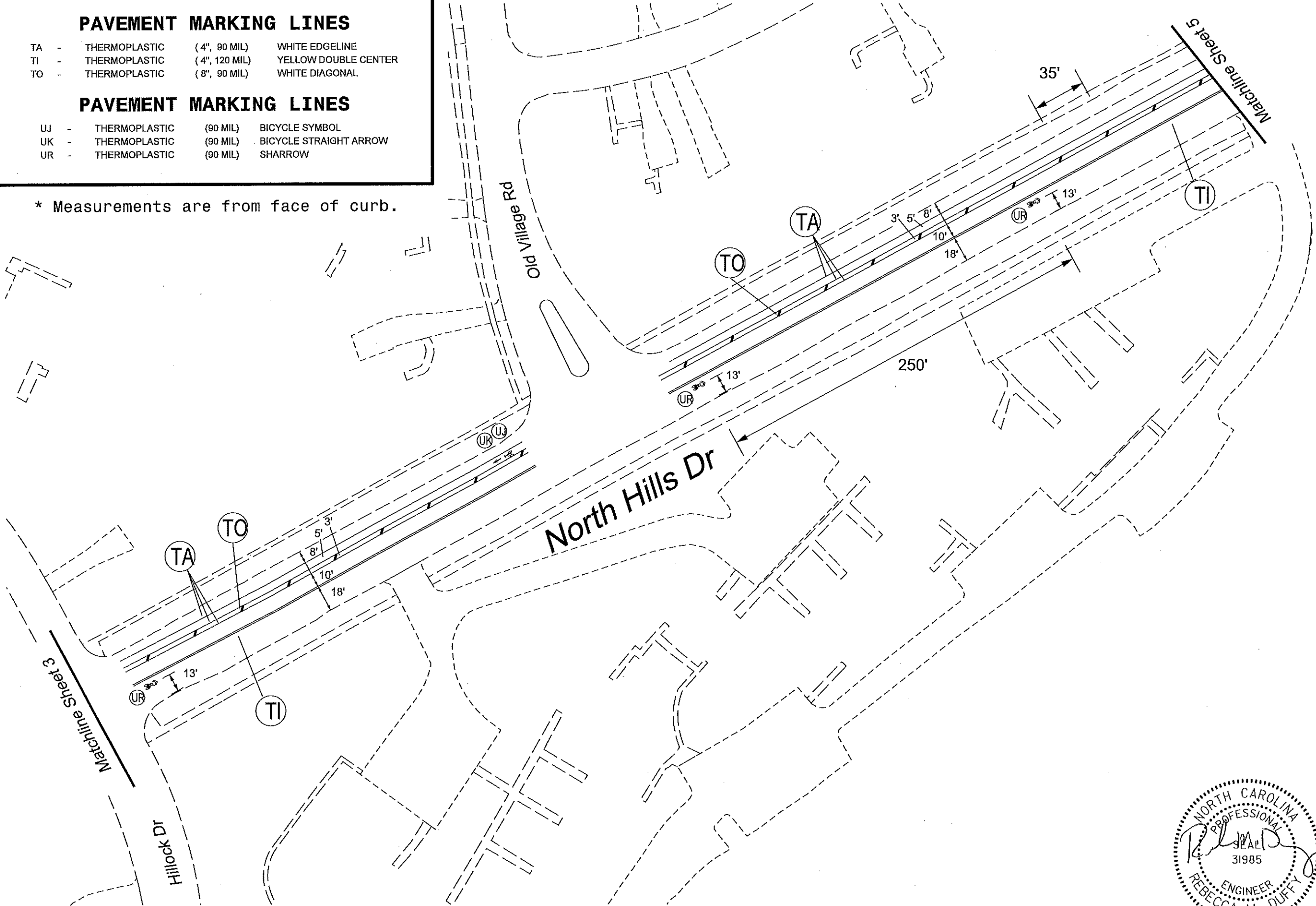
PAVEMENT MARKING LINES

- TA - THERMOPLASTIC (4", 90 MIL) WHITE EDGELINE
- TI - THERMOPLASTIC (4", 120 MIL) YELLOW DOUBLE CENTER
- TO - THERMOPLASTIC (8", 90 MIL) WHITE DIAGONAL



PAVEMENT MARKING LINES

- UJ - THERMOPLASTIC (90 MIL) BICYCLE SYMBOL
- UK - THERMOPLASTIC (90 MIL) BICYCLE STRAIGHT ARROW
- UR - THERMOPLASTIC (90 MIL) SHARROW

* Measurements are from face of curb.



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North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
CADD TECH:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE 1"=60'	
VSCALE	
SHEET NO.	

4

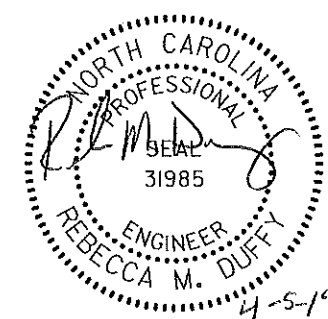
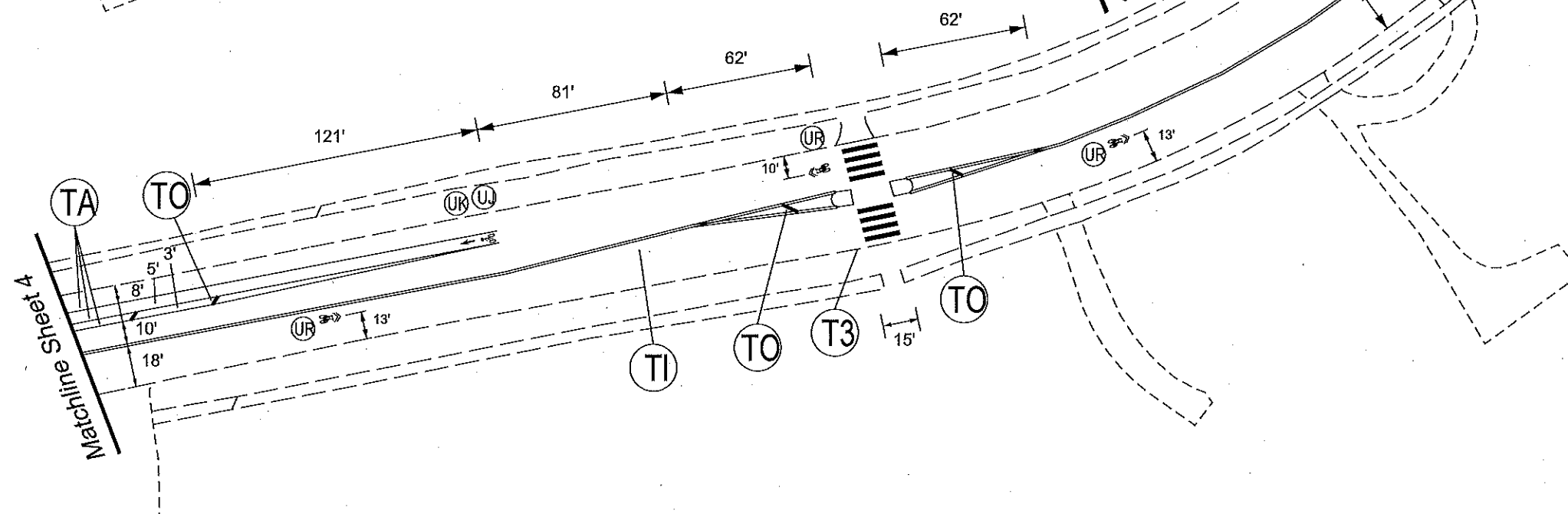
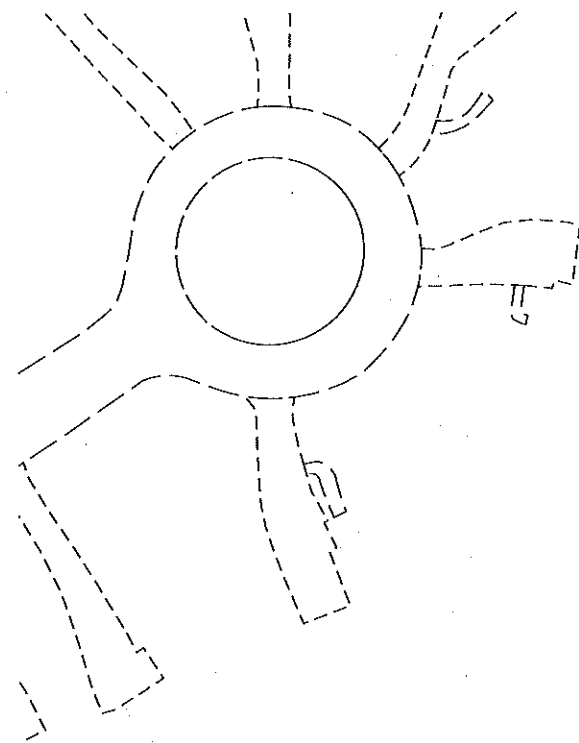
PAVEMENT MARKING LINES

T2	-	THERMOPLASTIC	(24", 120 MIL)	WHITE STOPBAR
T3	-	THERMOPLASTIC	(24", 120 MIL)	WHITE CROSSWALK LINE
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID LANE LINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

UB	-	THERMOPLASTIC	(90 MIL)	RIGHT ARROW
UC	-	THERMOPLASTIC	(90 MIL)	STRAIGHT ARROW
UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL)	SHARROW

* Measurements are from face of curb.



North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
CADD TECH:	RWD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE 1"=60'	
VSCALE	
SHEET NO.	

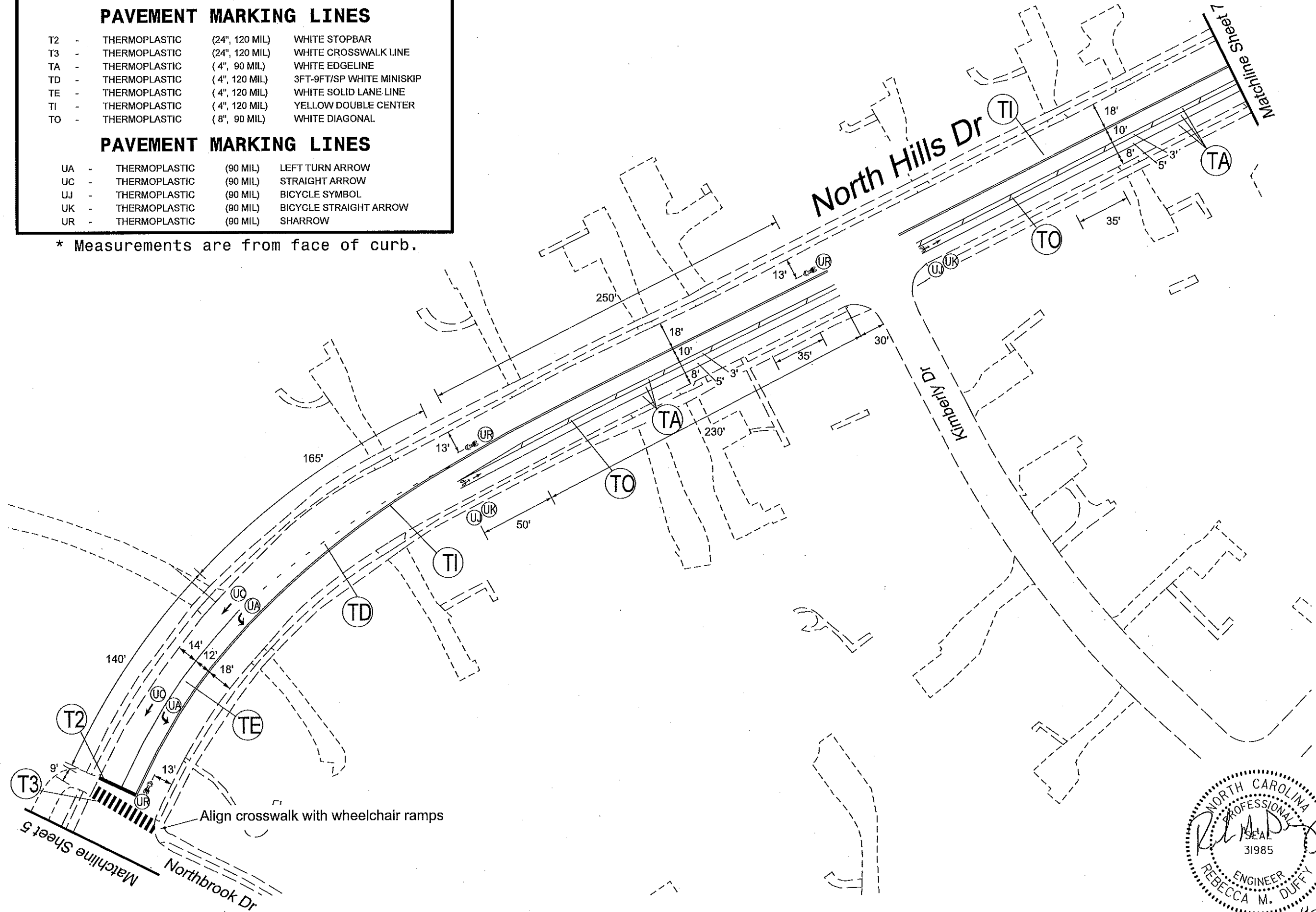
PAVEMENT MARKING LINES

T2	-	THERMOPLASTIC	(24", 120 MIL)	WHITE STOPBAR
T3	-	THERMOPLASTIC	(24", 120 MIL)	WHITE CROSSWALK LINE
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TD	-	THERMOPLASTIC	(4", 120 MIL)	3FT-9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID LANE LINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

UA	-	THERMOPLASTIC	(90 MIL)	LEFT TURN ARROW
UC	-	THERMOPLASTIC	(90 MIL)	STRAIGHT ARROW
UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL)	SHARROW

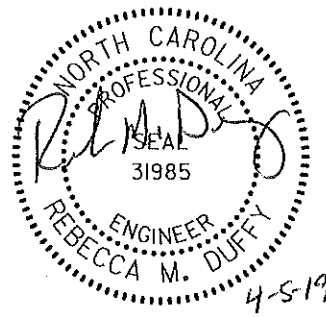
* Measurements are from face of curb.



North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
CADD TECH:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE: 1"=60'	
VSCALE:	
SHEET NO.	



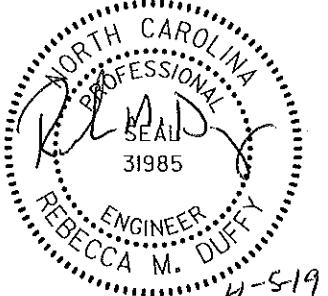
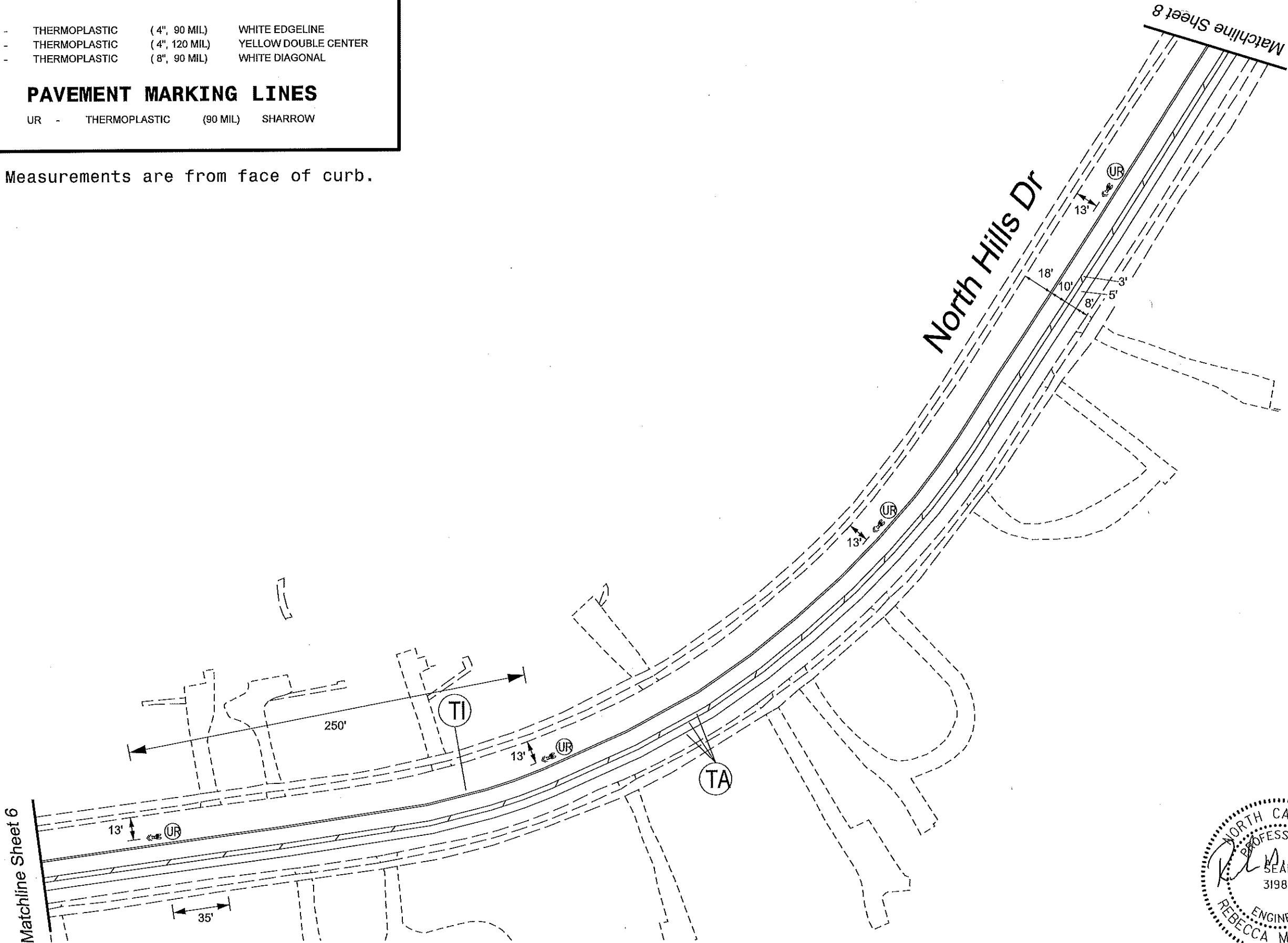
PAVEMENT MARKING LINES

TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL



PAVEMENT MARKING LINES

UR	-	THERMOPLASTIC	(90 MIL)	SHARROW
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* Measurements are from face of curb.



CITY OF RALEIGH
DEPARTMENT OF TRANSPORTATION



North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
DRAWN BY:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE	1"=60'
VSCALE	
SHEET NO.	

7

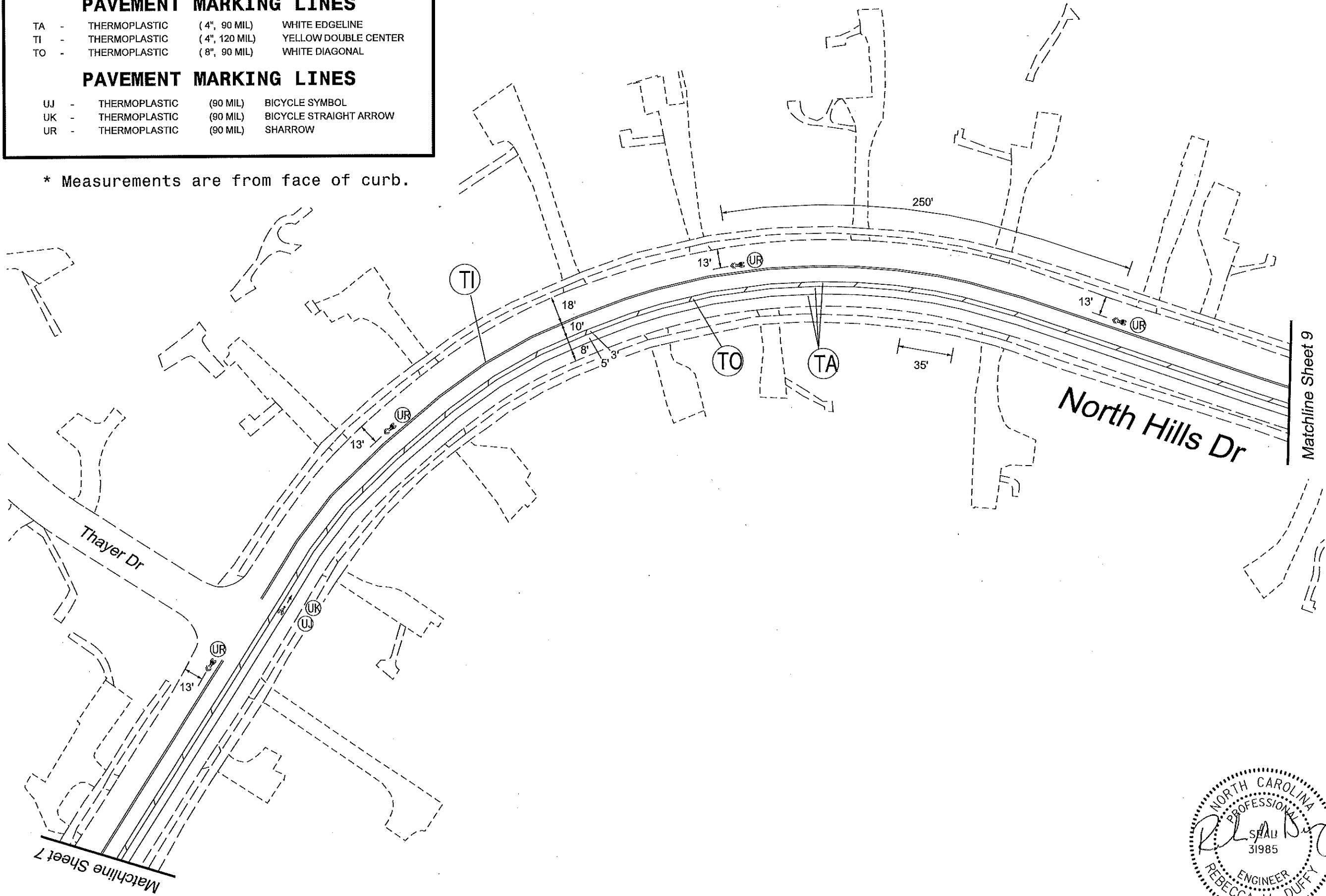
PAVEMENT MARKING LINES

TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL)	SHARROW

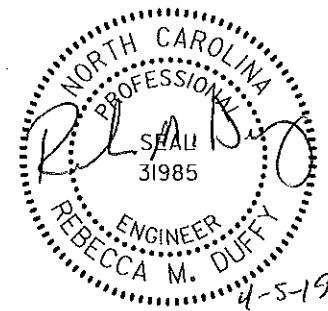
* Measurements are from face of curb.

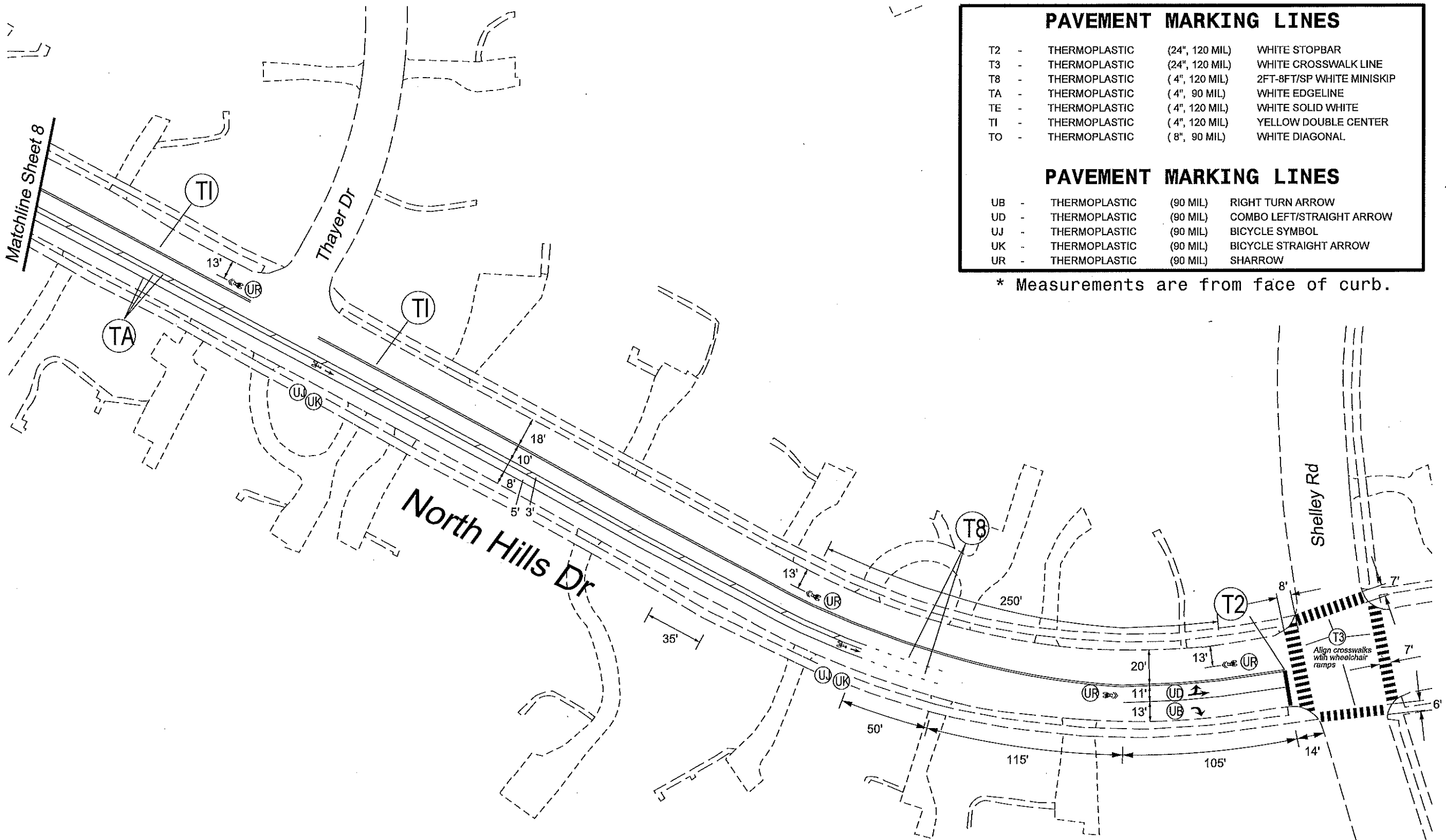


North Hills Dr
Lead Mine Rd to Shelley Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/20/19
CADD TECH:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE 1"=60'	
VSCALE	
SHEET NO.	
8	





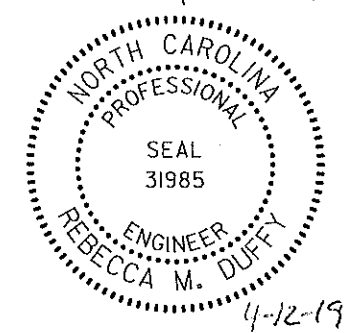
PAVEMENT MARKING LINES

T2	-	THERMOPLASTIC	(24", 120 MIL)	WHITE STOPBAR
T3	-	THERMOPLASTIC	(24", 120 MIL)	WHITE CROSSWALK LINE
T8	-	THERMOPLASTIC	(4", 120 MIL)	2FT-8FT/SP WHITE MINISKIP
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGETLINE
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID WHITE
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL

PAVEMENT MARKING LINES

UB	-	THERMOPLASTIC	(90 MIL)	RIGHT TURN ARROW
UD	-	THERMOPLASTIC	(90 MIL)	COMBO LEFT/STRAIGHT ARROW
UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW
UR	-	THERMOPLASTIC	(90 MIL)	SHARROW

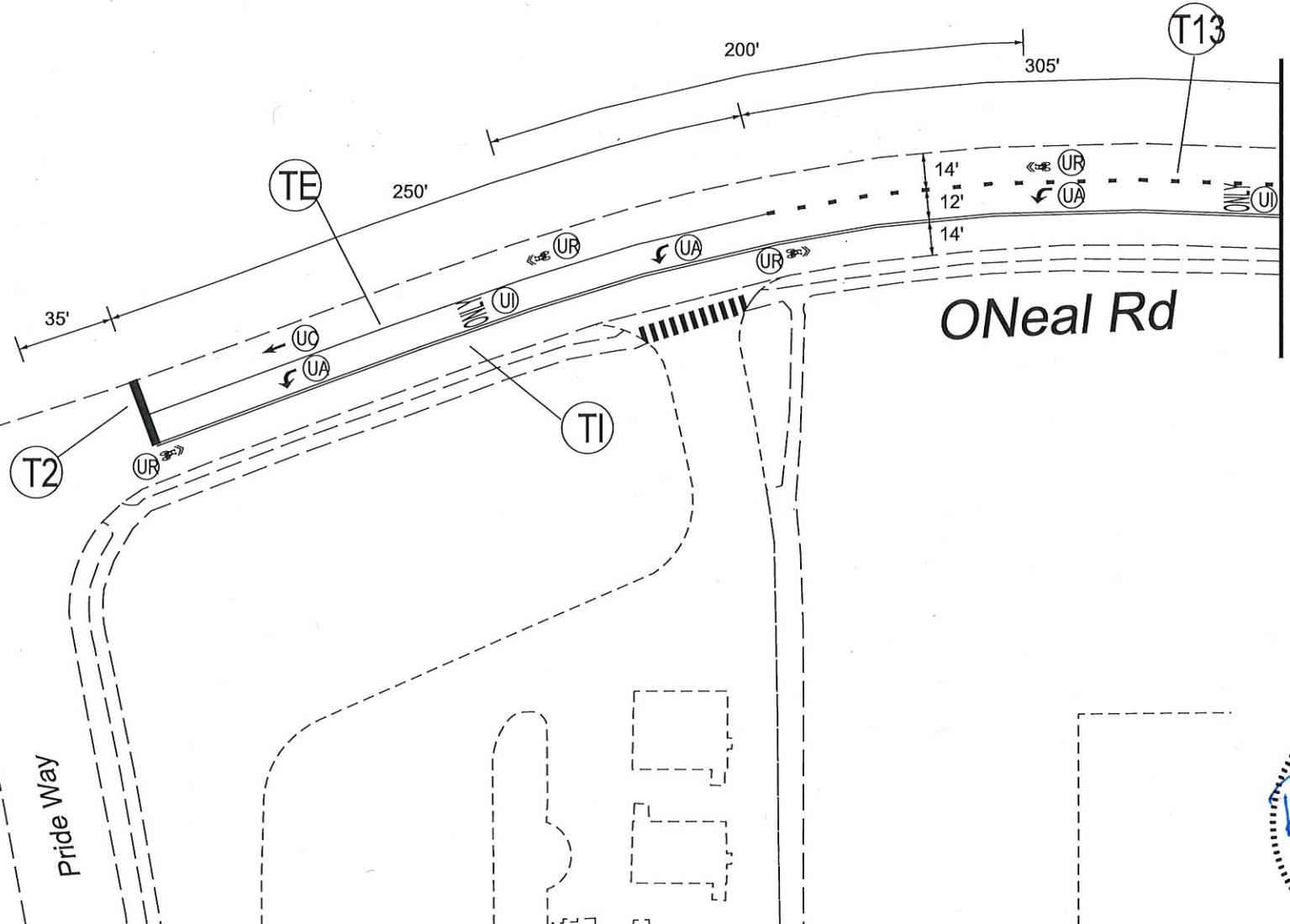
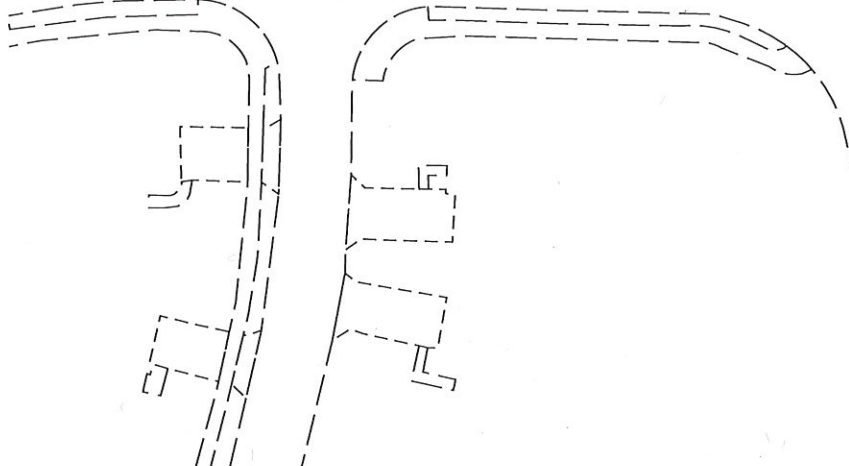
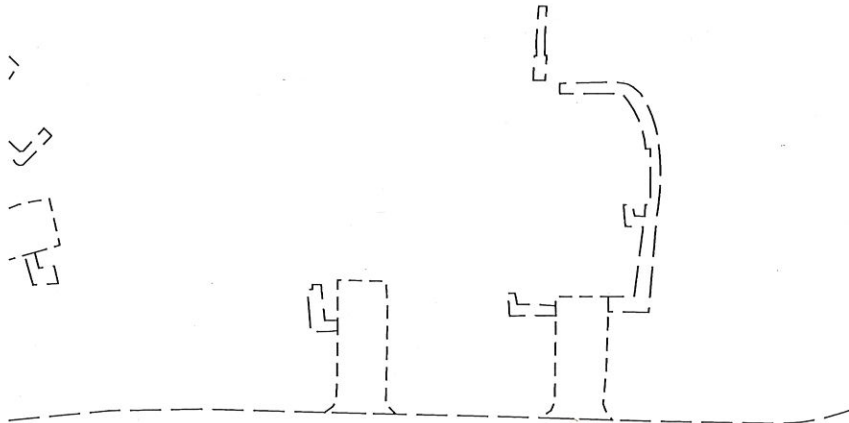
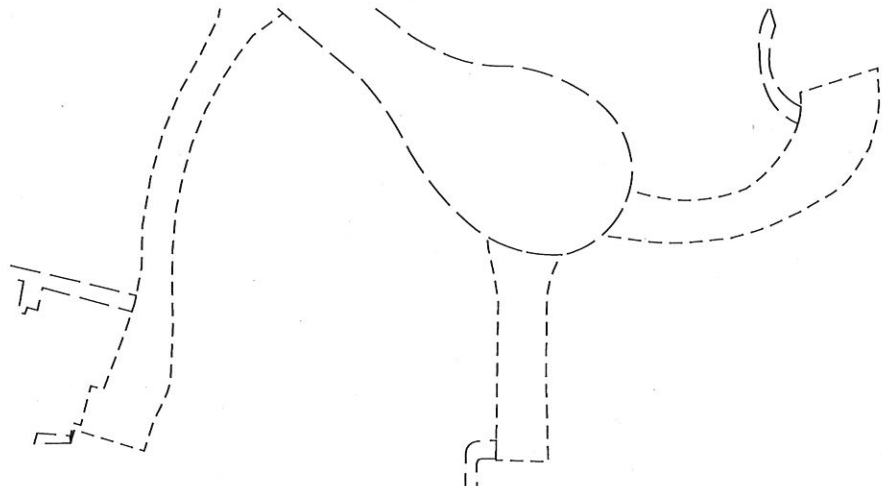
* Measurements are from face of curb.



North Hills Dr
Lead Mine Rd to Shelley Rd

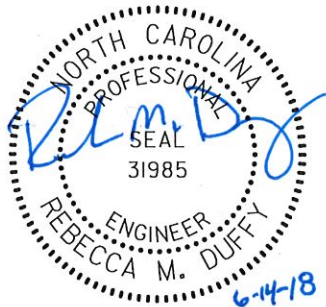
2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/20/19
CADD TECH:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
1	4/1/19
SCALES	
HSCALE	1"=60'
VSCALE	
SHEET NO.	





PAVEMENT MARKING LINES			
T2	-	THERMOPLASTIC	(24", 120 MIL) WHITE STOPBAR
T13	-	THERMOPLASTIC	(8", 120 MIL) 3FT-9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC	(4", 120 MIL) WHITE SOLID LANE LINE
TI	-	THERMOPLASTIC	(4", 120 MIL) YELLOW DOUBLE CENTER
PAVEMENT MARKING LINES			
UA	-	THERMOPLASTIC	(90 MIL) LEFT TURN ARROW
UC	-	THERMOPLASTIC	(90 MIL) STRAIGHT ARROW
UI	-	THERMOPLASTIC	(90 MIL) ALPHANUMERIC CHAR
UR	-	THERMOPLASTIC	(90 MIL) SHARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



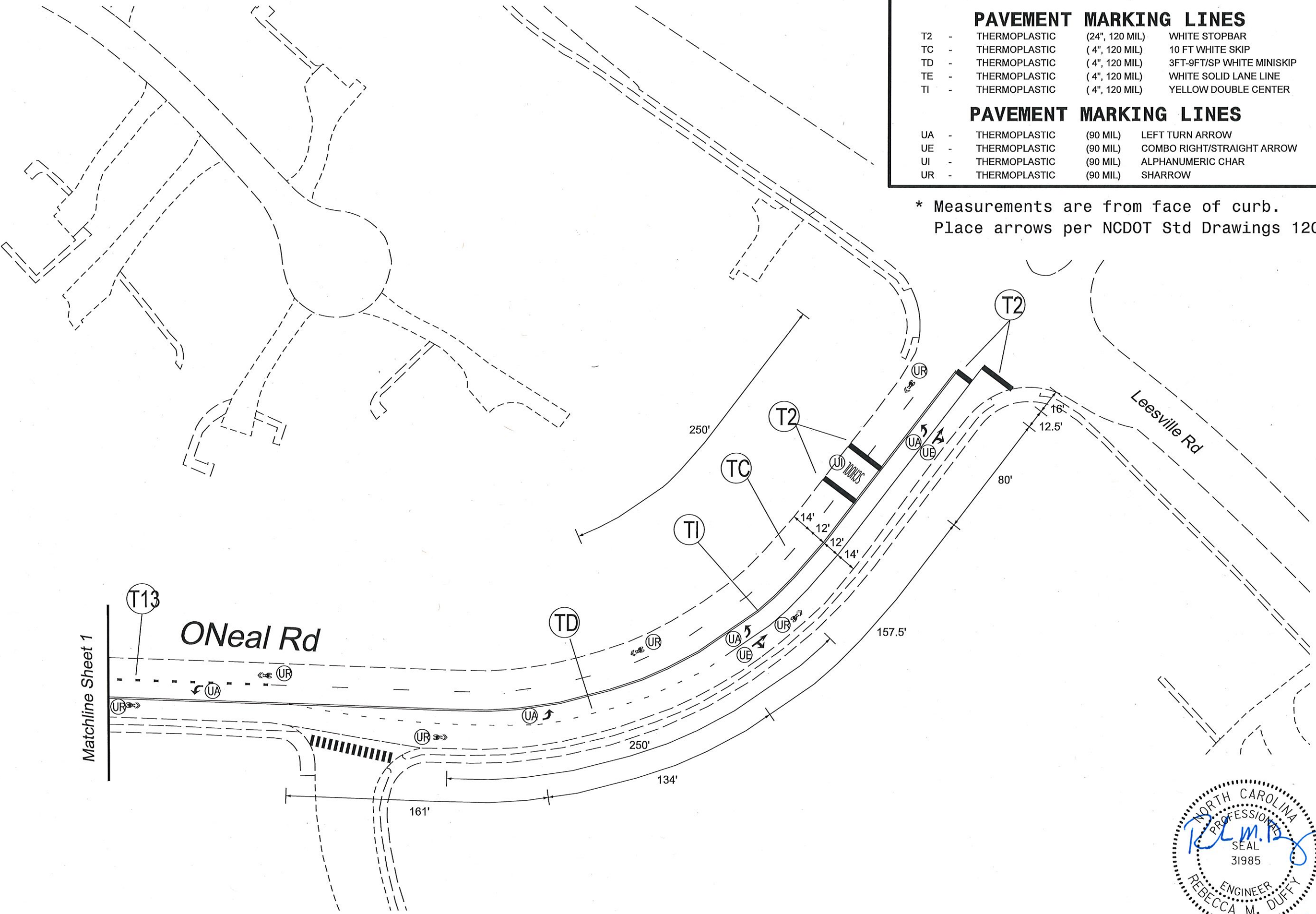
CITY OF RALEIGH
DEPARTMENT OF TRANSPORTATION



O'Neal Rd
Pride Way to Leesville Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE: 3/2019
CADD TECH: RMD
CHECKED BY:
REVISIONS
NO. DATE
SCALES
HSCALE 1"=60'
VSCALE
SHEET NO.
1



PAVEMENT MARKING LINES			
T2	-	THERMOPLASTIC	(24", 120 MIL) WHITE STOPBAR
TC	-	THERMOPLASTIC	(4", 120 MIL) 10 FT WHITE SKIP
TD	-	THERMOPLASTIC	(4", 120 MIL) 3FT-9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC	(4", 120 MIL) WHITE SOLID LANE LINE
TI	-	THERMOPLASTIC	(4", 120 MIL) YELLOW DOUBLE CENTER
PAVEMENT MARKING LINES			
UA	-	THERMOPLASTIC	(90 MIL) LEFT TURN ARROW
UE	-	THERMOPLASTIC	(90 MIL) COMBO RIGHT/STRAIGHT ARROW
UI	-	THERMOPLASTIC	(90 MIL) ALPHANUMERIC CHAR
UR	-	THERMOPLASTIC	(90 MIL) SHARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205

CITY OF RALEIGH

DEPARTMENT OF TRANSPORTATION

O'Neal Rd

Pride Way to Leesville Rd

2019 Street Resurfacing

Pavement Marking Plans

DATE: 3/2019

CADD TECH: RMD

CHECKED BY:

REVISIONS

NO. DATE

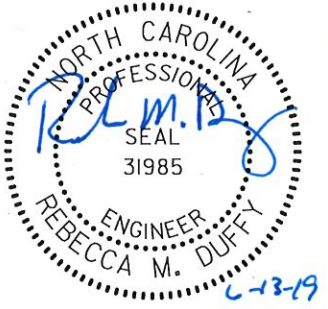
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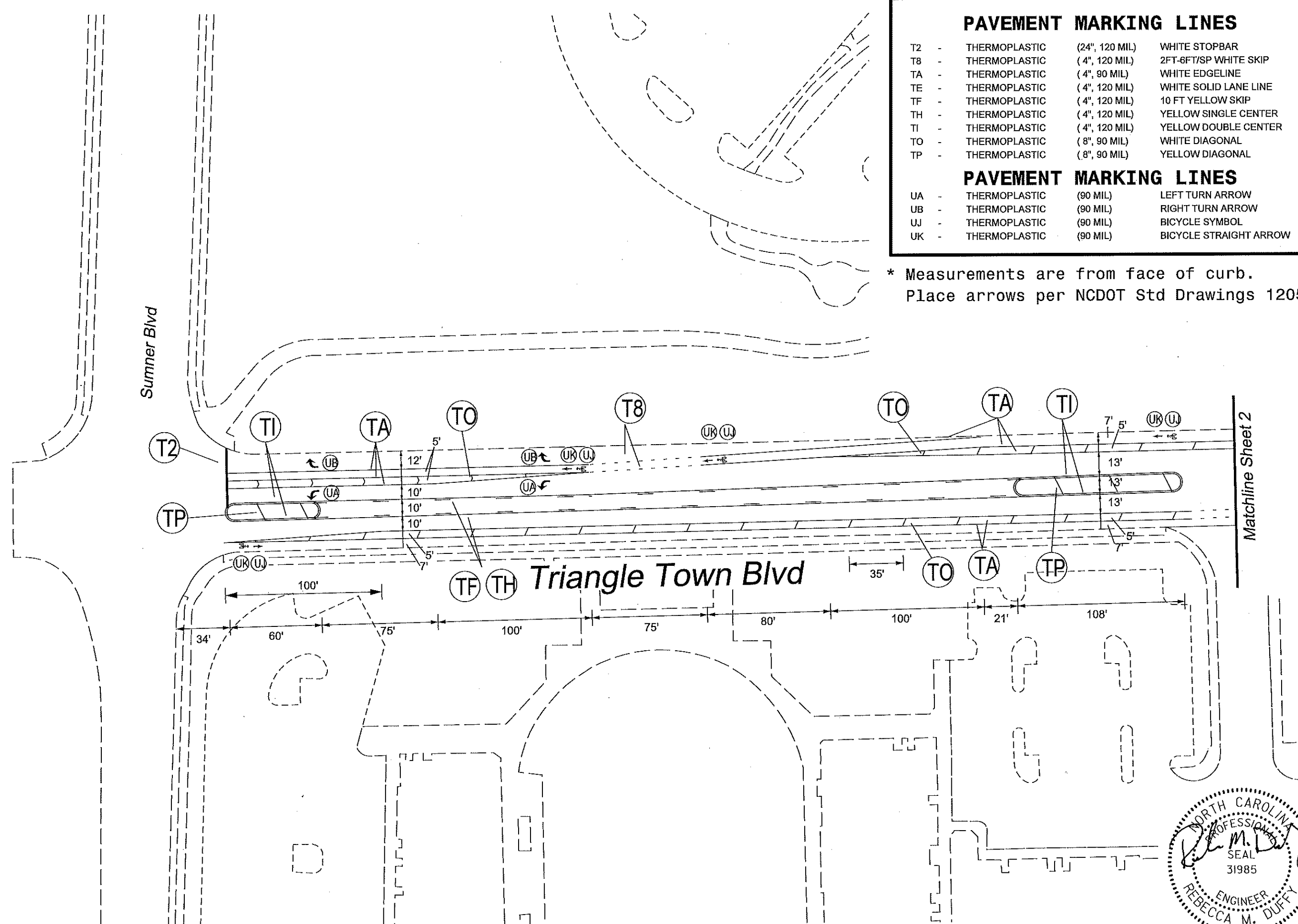
HSCALE: 1"=60'

VSCALE

SHEET NO.

2





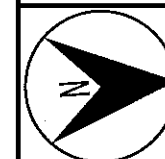
PAVEMENT MARKING LINES

T2	-	THERMOPLASTIC	(24", 120 MIL)	WHITE STOPBAR
T8	-	THERMOPLASTIC	(4", 120 MIL)	2FT-6FT/SP WHITE SKIP
TA	-	THERMOPLASTIC	(4", 90 MIL)	WHITE EDGELINE
TE	-	THERMOPLASTIC	(4", 120 MIL)	WHITE SOLID LANE LINE
TF	-	THERMOPLASTIC	(4", 120 MIL)	10 FT YELLOW SKIP
TH	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW SINGLE CENTER
TI	-	THERMOPLASTIC	(4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC	(8", 90 MIL)	WHITE DIAGONAL
TP	-	THERMOPLASTIC	(8", 90 MIL)	YELLOW DIAGONAL

PAVEMENT MARKING LINES

UA	-	THERMOPLASTIC	(90 MIL)	LEFT TURN ARROW
UB	-	THERMOPLASTIC	(90 MIL)	RIGHT TURN ARROW
UJ	-	THERMOPLASTIC	(90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC	(90 MIL)	BICYCLE STRAIGHT ARROW

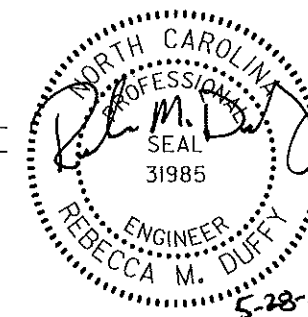
* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205



Triangle Town Blvd
Summer Rd to
Old Wake Forest Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
CADD TECH:	RAM
CHECKED BY:	
REVISIONS	
NO.	DATE
SCALES	
HSCALE 1"=60'	
VSCALE	
SHEET NO.	



5-28-15

Matchline Sheet 2

Matchline Sheet 3

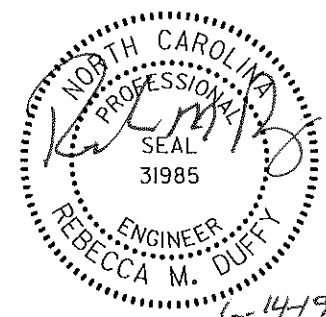
Triangle Town Blvd

Old Wake Forest Rd



PAVEMENT MARKING LINES			
T2	-	THERMOPLASTIC (24", 120 MIL)	WHITE STOPBAR
T3	-	THERMOPLASTIC (24", 120 MIL)	WHITE CROSSWALK LINE
T8	-	THERMOPLASTIC (4", 120 MIL)	2FT-6FT/SP WHITE SKIP
TA	-	THERMOPLASTIC (4", 90 MIL)	WHITE EDGELINE
TD	-	THERMOPLASTIC (4", 120 MIL)	3FT/9FT/SP WHITE MINISKIP
TE	-	THERMOPLASTIC (4", 120 MIL)	WHITE SOLID LANE LINE
TF	-	THERMOPLASTIC (4", 120 MIL)	10 FT YELLOW SKIP
TH	-	THERMOPLASTIC (4", 120 MIL)	YELLOW SINGLE CENTER
TI	-	THERMOPLASTIC (4", 120 MIL)	YELLOW DOUBLE CENTER
TO	-	THERMOPLASTIC (8", 90 MIL)	WHITE DIAGONAL
PAVEMENT MARKING LINES			
UA	-	THERMOPLASTIC (90 MIL)	LEFT TURN ARROW
UB	-	THERMOPLASTIC (90 MIL)	RIGHT TURN ARROW
UC	-	THERMOPLASTIC (90 MIL)	STRAIGHT ARROW
UJ	-	THERMOPLASTIC (90 MIL)	BICYCLE SYMBOL
UK	-	THERMOPLASTIC (90 MIL)	BICYCLE STRAIGHT ARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205

Align crosswalk with wheelchair ramp



CITY OF RALEIGH
DEPARTMENT OF TRANSPORTATION



Triangle Town Blvd
Sumner Blvd to
Old Wake Forest Rd

2019 Street Resurfacing
Pavement Marking Plans

DATE:	3/2019
CADD TECH:	RMD
CHECKED BY:	
REVISIONS	
NO.	DATE
1	6/19
SCALES	
HSCALE 1"=60'	
VSCALE	
SHEET NO.	2

Old Wake Forest Rd

Matchline Sheet 2

Revise existing through-right to a right only.

Triangle Town Blvd

UB

-

PAVEMENT MARKING LINES

THERMOPLASTIC

(90 MIL)

RIGHT TURN ARROW

* Measurements are from face of curb.
Place arrows per NCDOT Std Drawings 1205

NORTH CAROLINA

PROFESSIONAL

SEAL

31985


ENGINEER


REBECCA M. DUFFY

5-28-19

CITY OF RALEIGH

DEPARTMENT OF TRANSPORTATION





Triangle Town Blvd

Summer Blvd to

Old Wake Forest Rd

2019 Street Resurfacing

Pavement Marking Plans

DATE: 3/2019

CADD TECH: RMD

CHECKED BY:

REVISIONS

NO.	DATE

SCALES

HSCALE 1"=60'

VSCALE

SHEET NO.

3