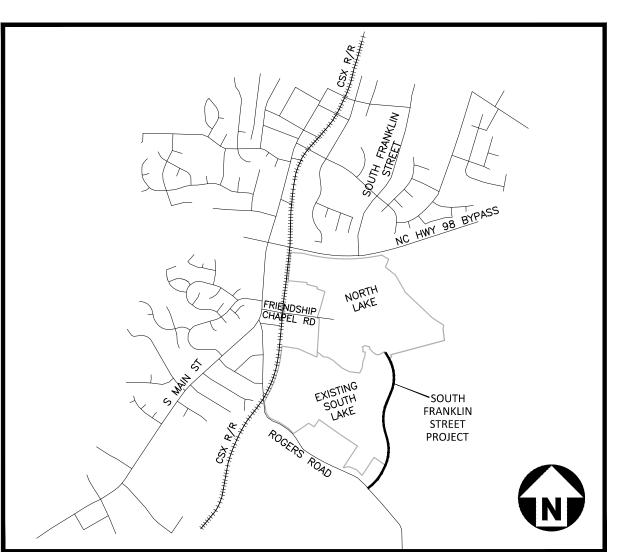
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

CONSTRUCTION DRAWINGS

PROJECT NUMBER: RAP-19000 WAKE FOREST PROJECT NUMBER: SP-22-08

DATE: FEBRUARY 23, 2024



VICINITY MAP

N.T.S.

Know what's below.
Call before you dig.

NO SUBSURFACE UTILITY SURVEY (SUE) HAS BEEN PERFORMED FOR THE PREPARATION OF THESE PLANS. ADDITIONAL UNDERGROUND UTILITIES MAY BE IN THE AREA. CONTRACTOR SHALL NOTIFY "NC811" (811) OR 1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

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C1.00	Existing Conditons	Sta. 15+00 thru Sta. 26+00
C1.01	Existing Conditions	Sta. 26+00 Thru Sta. 46+00
C2.00	Road Widening Plan	Sta. 15+00 Thru Sta. 26+00
C2.01	Road Widening Plan	Sta. 26+00 Thru Sta. 46+00
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C3.01	Grading and Storm Drainage Plan	Sta. 26+00 Thru Sta. 46+00
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C7.02	Cross Sections	STA. 18+00 THRU STA. 19+50
		STA. 20+00 THRU STA. 21+50
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C7.06	Cross Sections	STA. 24+00 THRU STA. 25+00
C7.07	Cross Sections	STA. 25+50 THRU STA. 26+50
C7.08	Cross Sections	STA. 27+00 THRU STA. 28+50
C7.09	Cross Sections	STA. 28+85.95 THRU STA. 29+50
C7.10	Cross Sections	STA. 30+00 THRU STA. 30+50
C7.11	Cross Sections	STA. 31+00
C7.12	Cross Sections	STA. 31+50
C7.13	Cross Sections	STA. 32+00
C7.14	Cross Sections	STA 32+29.91
C7.15	Cross Sections	STA. 32+50
C7.16	Cross Sections	STA. 33+00 THRU STA. 33+50
C7.17	Cross Sections	STA. 34+00 THRU STA. 35+00
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C10.20	TRAFFIC CONTROL PLAN PHASE 2	STA. 10+00 THRU STA. 26+00
C10.21	TRAFFIC CONTROL PLAN PHASE 2	STA. 26+00 THRU STA. 46+00
	TRAFFIC CONTROL PLAN PHASE 3	STA. 10+00 THRU STA. 26+00
C10.30	TRAFFIC CONTROL DI AN DI ACC 2	STA 30.00 TURL STA 40.00

C10.31 TRAFFIC CONTROL PLAN PHASE 3

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

CITY OF RALEIGH AND NCDOT (WHERE APPLICABLE)

WITH THE CURRENT TOWN OF WAKE FOREST,

hese plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Department. This approval may not be edited once issued. smeyer 04/25/2024 Public Works/Engineering

These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be edited once issued. ENGINEERING DESIGN AND CONSTRUCTION STANDARDS | Planning

FINAL DRAWING - RELEASED FOR CONSTRUCTION

STA. 26+00 THRU STA. 46+00



2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

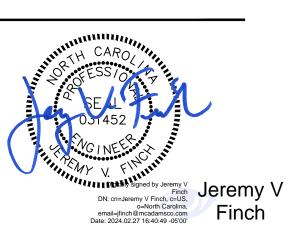
CONTACT

JEREMY FINCH jfinch@mcadamsco.com PHONE: 919. 361. 5000

CLIENT

TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

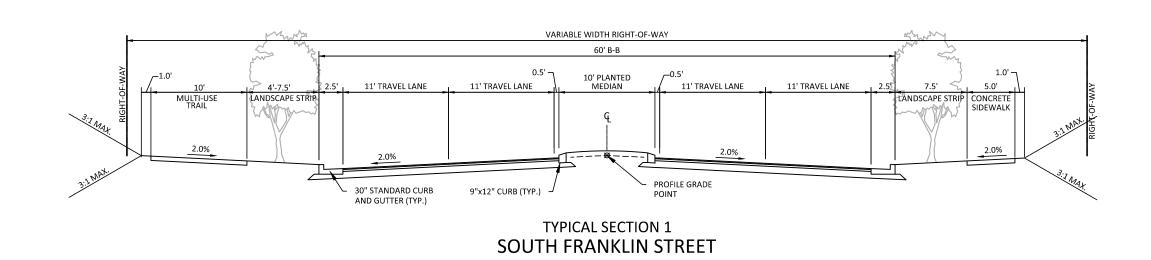
PROJECT DIRECTORY

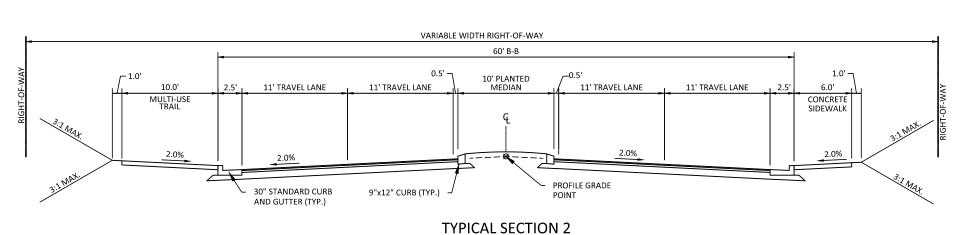


REVISIONS

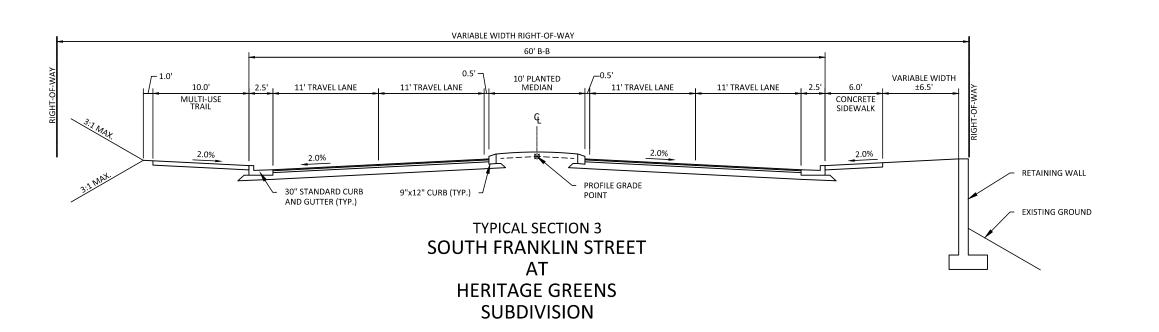
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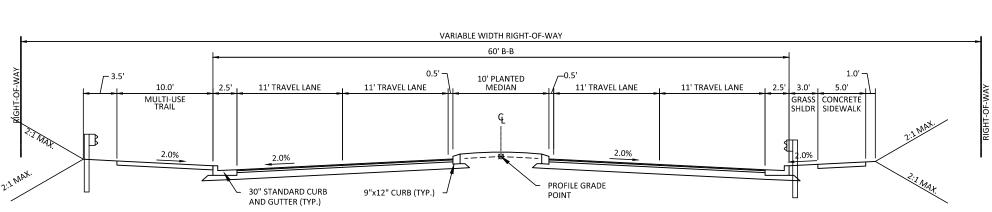
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS 0 SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA PROJECT NUMBER: RAP-19000



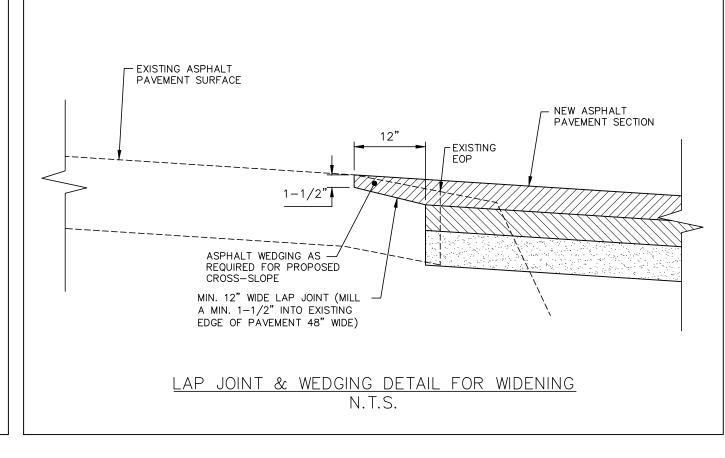


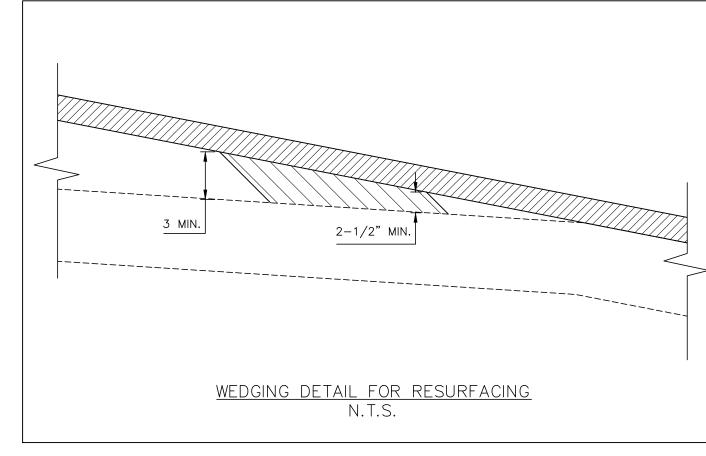
SOUTH FRANKLIN STREET ΑT HERITAGE GREENS SUBDIVISION





TYPICAL SECTION 4 SOUTH FRANKLIN STREET STREAM CROSSING





SOUTH FRANKLIN STREET PAVEMENT SCHEDULE

L				
ſ	CODE	DESCRIPTION		

PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE OVERLAY, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS PER SQ. YD. MILL A MIN. OF 1.5" TO MATCH EXISITNG PAVEMENT.

PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS PER SQ. YD. IN EACH OF TWO 1.5" LAYERS.

PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER

PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 114 LBS PER SQ. YD. PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE

D2 OF 114 LBS PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4.0" IN DEPTH.

PROP. APPROX. 5.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3.0" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.

PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS E3 PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 3.0" IN DEPTH OR GREATER THAN

5.5" IN DEPTH.

J2 PROP. 10" AGGREGATE BASE COURSE (E2*** WHEN LESS THAN 6')

T COMPACTED EARTH MATERIAL U EXISTING PAVEMENT

W VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

NOTES

Y2 INCIDENTAL MILLING

1. PAVEMENT SECTION SHOWN IS BASED NCDOT MINIMUM STANDARDS. A FINAL PAVEMENT SECTION DESIGN IS REQUIRED TO BE SUBMITTED TO NCDOT FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF ANY BASE MATERIAL.

2. SEE CROSS SECTIONS FOR ROADWAY CROSS SLOPES.

3. CONTRACTOR TO SAW CUT EXISTING EDGE OF PAVEMENT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT.

> ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT AND THE CITY OF RALEIGH (WHERE APPLICABLE) **ENGINEERING DESIGN AND CONSTRUCTION STANDARDS**

> > DATE

These plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Department. This approval may not be edited once issued. Smeyer 04/25/2024

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Public Works/Engineering

FINAL DRAWING - RELEASED FOR CONSTRUCTION



EXISTING ASPHALT PAVEMENT SURFACE

The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

BUTT-JOINT MILLING DETAIL

37.5' MIN.

CONTRACTOR TO MILL
EXISTING ASPHALT TO TIE
IN OVERLAY

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

NEW ASPHALT——OVERLAY SECTION

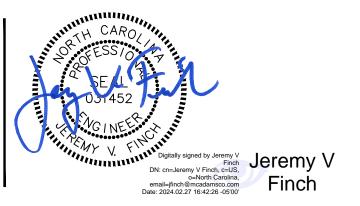
www.mcadamsco.com

TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy

PHONE: 919. 435. 9510

CLIENT

REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

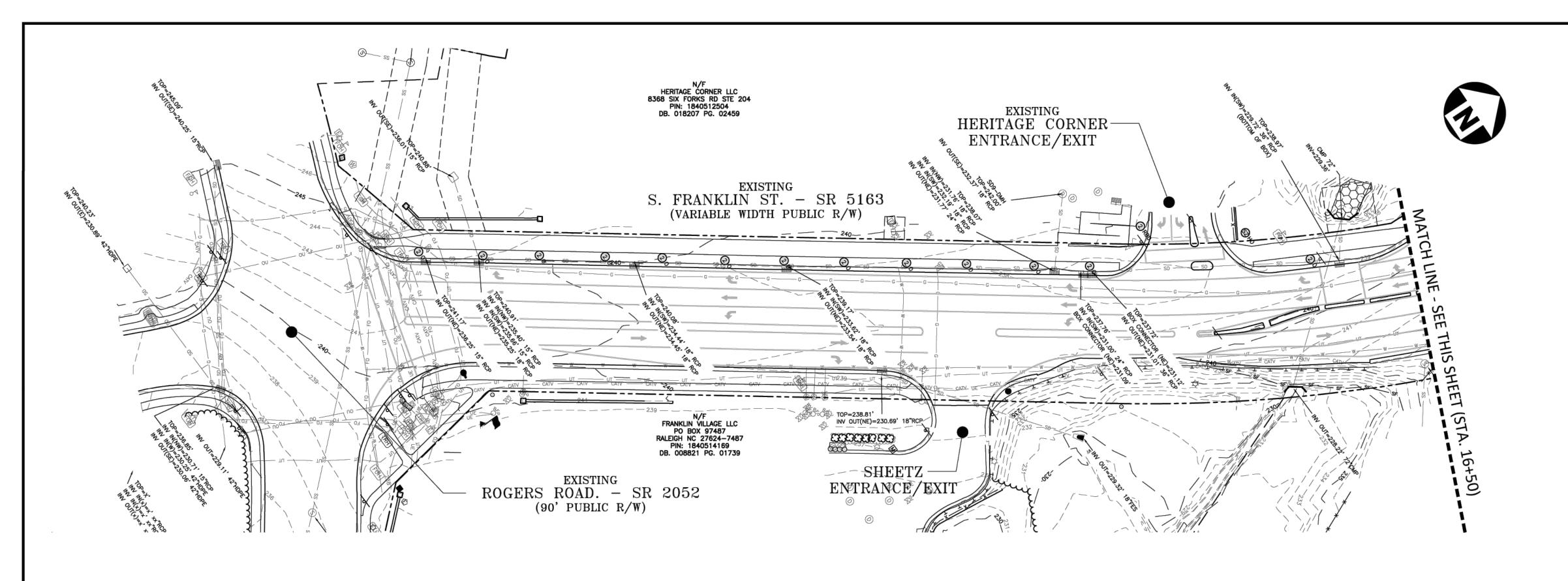
CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 FILENAME RAP19000-SF-TS1 CHECKED BY DRAWN BY SCALE

02. 23. 2024

TYPICAL SECTIONS



GENERAL NOTES

- THIS IS AN EXISTING CONDITIONS SURVEY.
 BEARINGS FOR THIS SURVEY ARE BASED ON SITE
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.
 REFERENCES: AS SHOWN
 UTILITY STATEMENT
- THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE
- UNDERGROUND UTILITIES.

 6. THIS SURVEY PERFORMED AND MAP PREPARED WITHOUT BENEFIT OF A TITLE REPORT. THIS SURVEY SUBJECT TO ANY FACTS AND EASEMENTS WHICH MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE
- 7. NO GRID MONUMENTS FOUND WITHIN 2000' OF SITE.

 8. ELEVATIONS FOR THIS SURVEY ARE BASED ON SITE
 DATUM

■ CONCRETE MONUMENT

○ EXISTING IRON PIPE

■ IRON PIPE SET

▲ CALCULATED POINT

FIRE HYDRANT

IRON PIPE SET
CALCULATED POINT
FIRE HYDRANT
WATER METER
BACKFLOW PREVENTER
WATER VALVE
DRAINAGE INLET/YARD INLET
CL CATCH BASIN AT BC
STORM DRAIN MANHOLE
FES

STORM DRAIN MANHOLE
FES
ELECTRIC MANHOLE
ELECTRIC METER
ELECTRIC TRANSFORMER
GUY WIRE

GUY WIRE
LIGHT POLE
POWER/UTILITY POLE
CLEAN OUT
SEWER MANHOLE
GAS SERVICE METER
GAS MARKER

GAS MARKER
GAS VALVE
CABLE TV BOX
CATV HANDHOLE
TELEPHONE BOX
TELEPHONE MANHOLE
TELEPHONE PEDESTAL
FIBER OPTIC MARKER
FIBER OPTIC HANDHOLE

AIR CONDITIONER

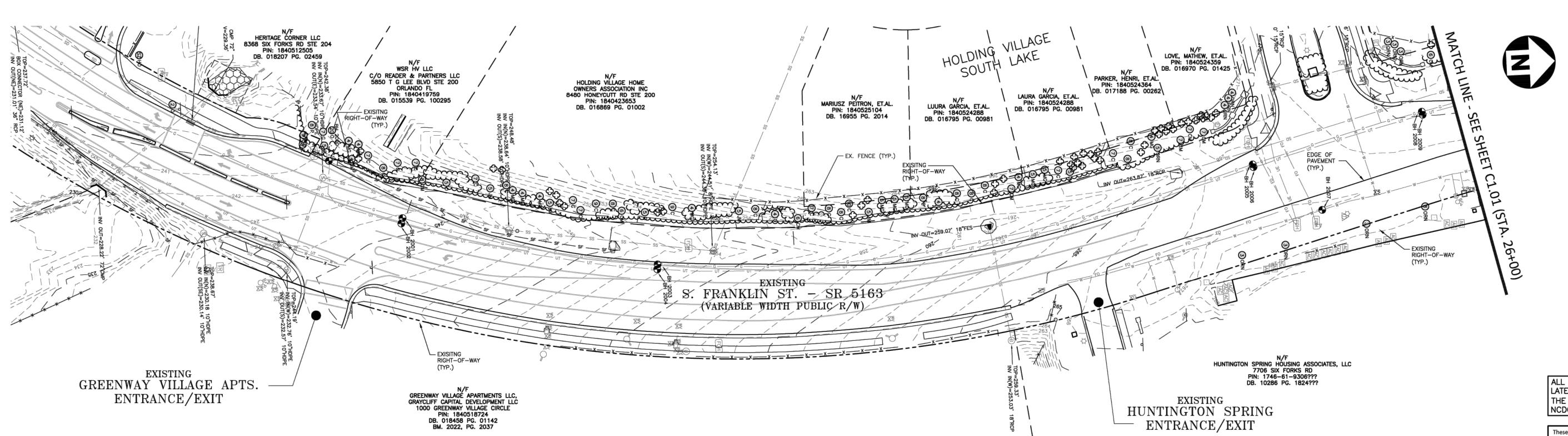
SIGN

GGS LINE
WATER LINE
SS SEWER LINE
STORM LINE

BOLLARD

FENCE
UNDERGROUND ELECTRIC LINE
UNDERGROUND FIBER OPTIC CABLE
UNDERGROUND TELEPHONE CABLE
WOOD LINE/LANDSCAPING

GRAPHIC SCALE
0 20 40



ALL CONSTRUCTION SHALL BE IN ACCORDANCE
WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT
AND THE CITY OF RALEIGH (WHERE APPLICABLE)
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

DATE

Water and Sewer Permits (If applicable)

- The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
- City of Raleigh Public Utilities Department Permit # S-____
- The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook.
- specifications of the City's Public Utilities Handbook.

 City of Raleigh Public Utilities Department Permit # W-____

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval

Raleigh Water Review Officer

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF WAKE FOREST, THE CITY OF RALEIGH (WATER AND SEWER) AND NCDOT STANDARDS AND SPECIFICATIONS.

These plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Department. This approval may not be edited once issued.

Public Works/Engineering

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FINAL DRAWING - RELEASED FOR CONSTRUCTION



The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

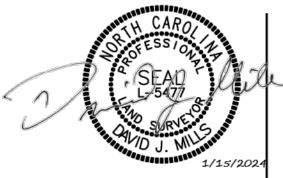
www.mcadamsco.com

CLIENT
TOWN OF WAKE FOREST
301 S. BROOKS STREET
WAKE FOREST, NC 27587-2901

PHONE: 919. 435. 9510

PATRICK REIDY

REVISIONS
NO. DATE
1



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

ONSTRUCTION DRAWINGS
O FRIENDSHIP CHAPEL ROAD
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

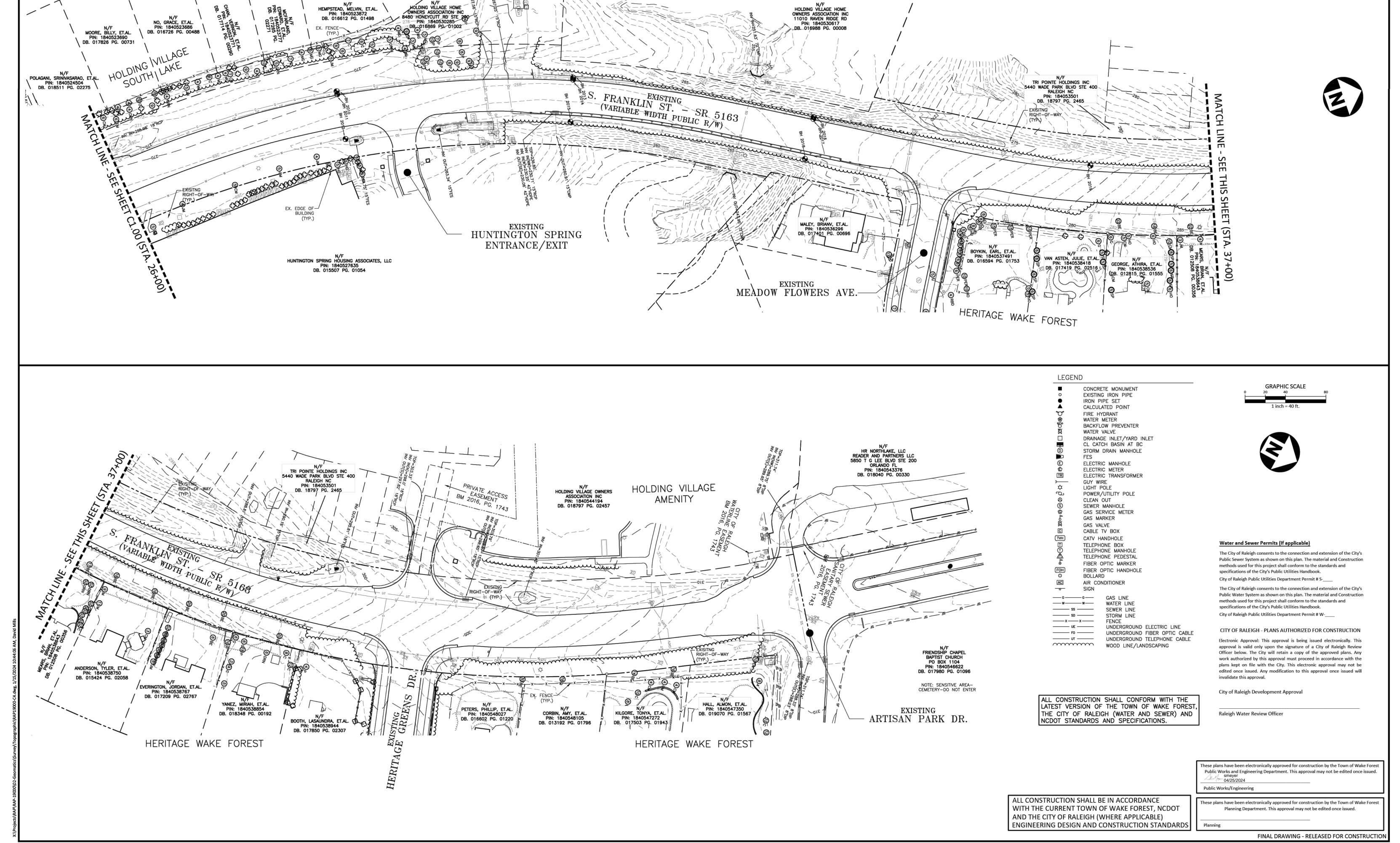
PROJECT NO. RAP-19000
FILENAME RAP19000-C4
CHECKED BY RTF
DRAWN BY DJM
SCALE 1"=40'

02.10.2022

EXISTING CONDITIONS

S. FRANKLIN STREET, STA. 10+00 THRU STA. 26+00

C1.00



MCADAMS

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301 S. BROOKS STREET

301 S. BROOKS STREET
WAKE FOREST, NC 27587-2901
PATRICK REIDY
PHONE: 919. 435. 9510

REVISIONS

NO. DATE

1
2



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

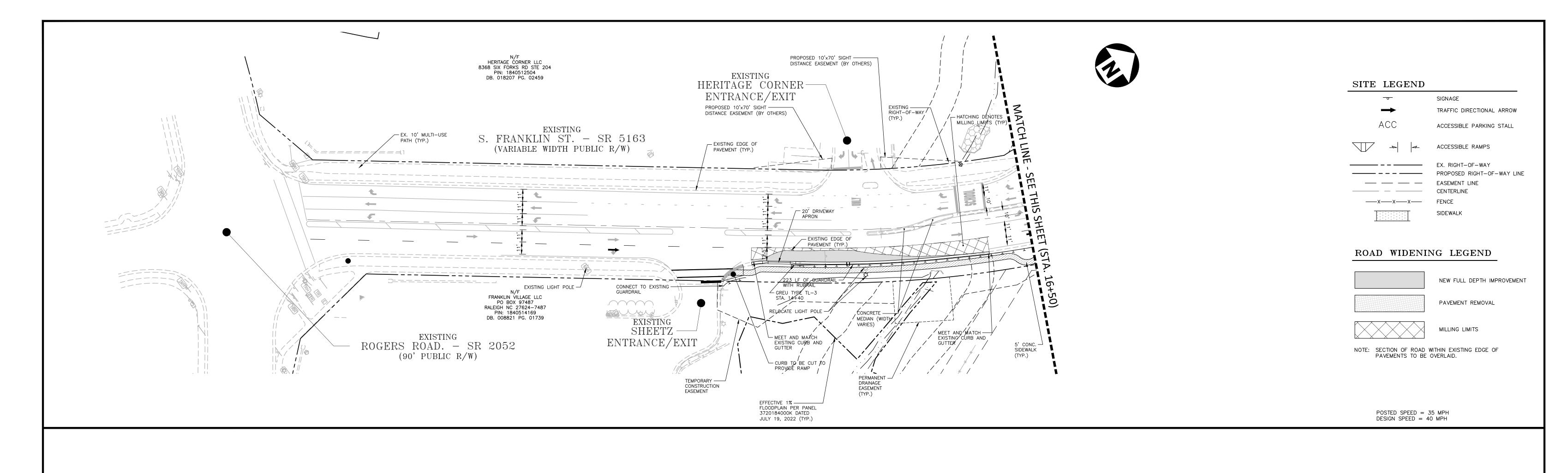
ONSTRUCTION DRAWINGS
OFRIENDSHIP CHAPEL ROAD
WAKE FOREST, NORTH CAROLINA

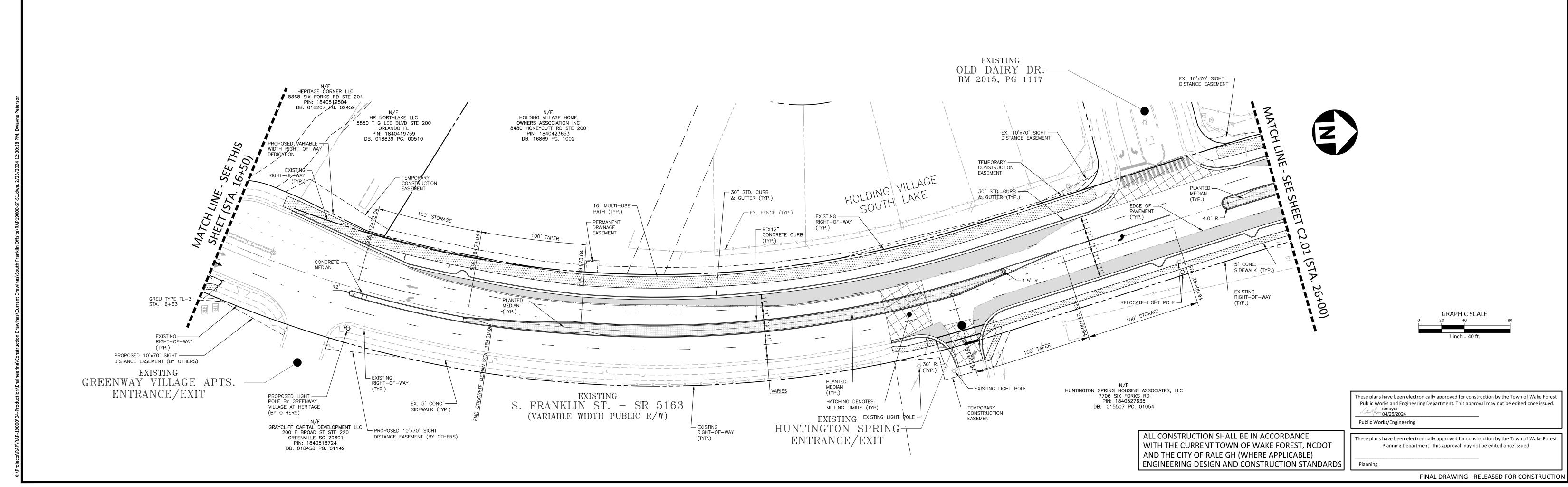
PLAN INFORMATION

PROJECT NO. RAP-19000
FILENAME RAP19000-C4
CHECKED BY RTF
DRAWN BY DJM
SCALE 1"=40'
DATE 02.10.2022

EXISTING CONDITIONS
S. FRANKLIN STREET, STA. 26+00 THRU STA. 46+00

C1.01







The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

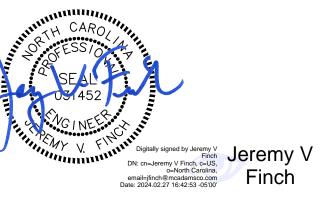
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301 S. BROOKS STREET
WAKE FOREST, NC 27587-2901
Patrick Reidy

PHONE: 919. 435. 9510

REVISIONS
NO. DATE
1
2
3
4



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

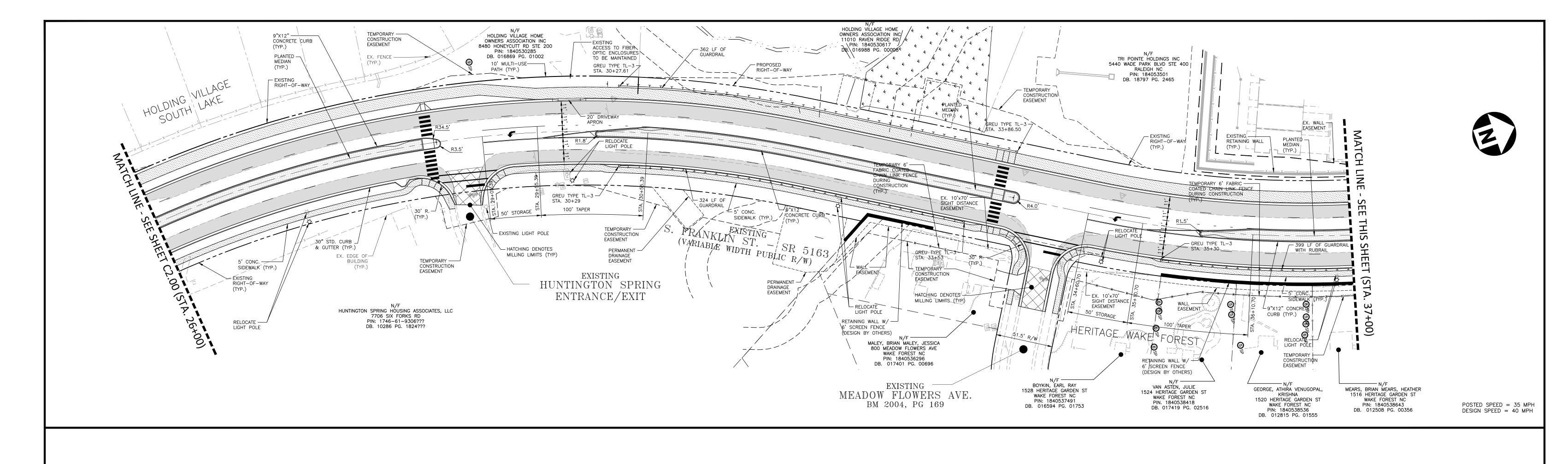
CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

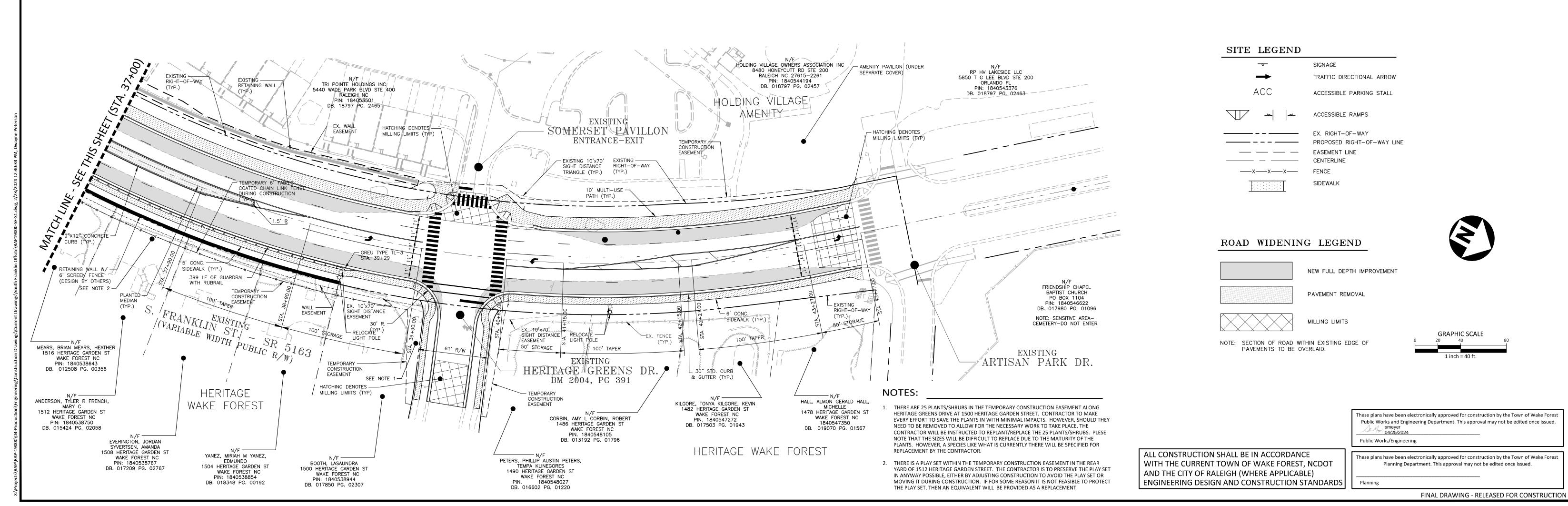
PLAN INFORMATION

PROJECT NO. RAP-19000
FILENAME RAP19000-SF-S1
CHECKED BY DLP
DRAWN BY RJF
SCALE 1" = 40'
DATE 02. 23. 2024

ROAD WIDENING PLAN
S. FRANKLIN STREET, STA. 15+00 THRU STA. 26+00

C2.00







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phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

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CLIENT TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901

PHONE: 919. 435. 9510

Patrick Reidy

REVISIONS NO. DATE



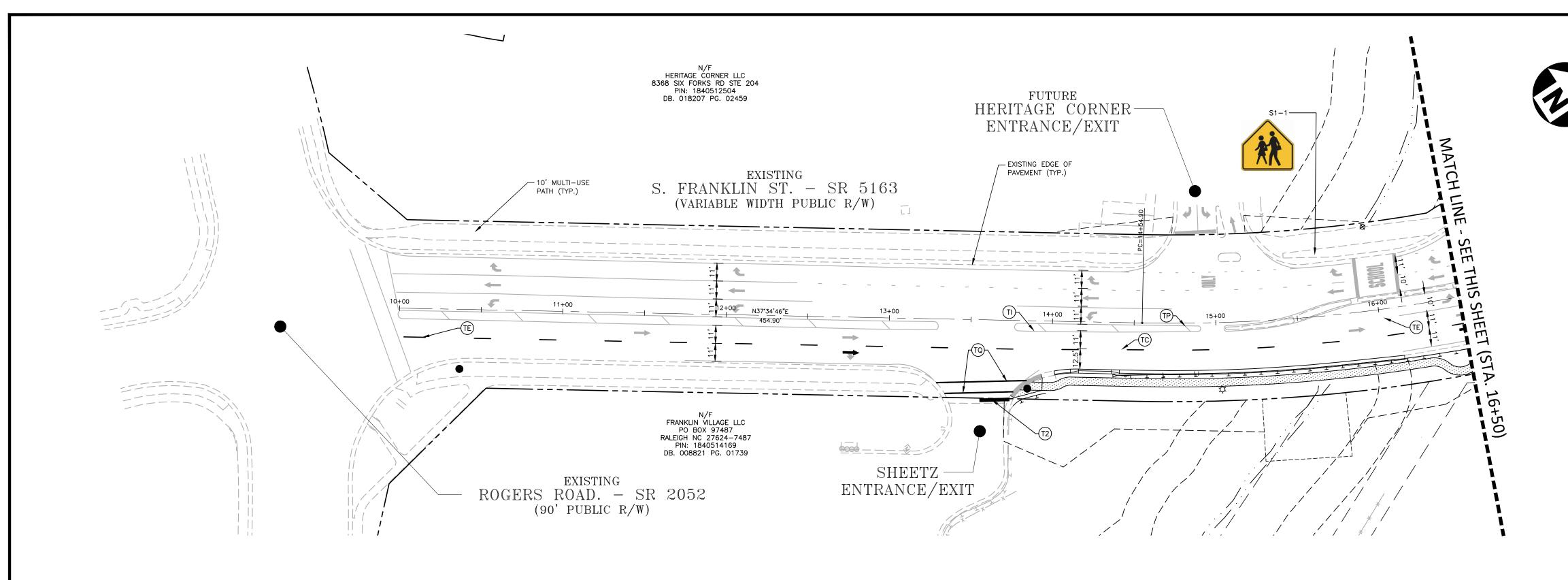
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 **FILENAME** RAP19000-SF-S1 CHECKED BY DRAWN BY SCALE 1" = 40' DATE 02. 23. 2024

ROAD WIDENING PLAN S. FRANKLIN STREET, STA. 26+00 THRU STA. 46+00



SIGNAGE LEGEND

 R2-1
 SPEED LIMIT (35 MPH)
 30"x36"

 R3-7R
 RIGHT LANE MUST TURN RIGHT
 36"x36"

 R4-7
 KEEP RIGHT
 24"x30"

 R6-1R
 ONE WAY ARROW
 36"x12"

 W3-3
 SIGNAL AHEAD
 30"x30"

POSTED SPEED = 35 MPH DESIGN SPEED = 40 MPH

- ALL NEW SIGNS WILL INCLUDE PRISMATIC SHEETING AND WILL CONFORM TO THE LATEST RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.
- 2. ALL SIGNS MUST MEET MUTCD GUIDELINES FOR LETTER HEIGHT, LETTER CASE AND SIGN COLOR.
- 3. EXISTING SIGNS SHALL BE RELOCATED TO THE APPROPRIATE LOCATION IN THE
- 4. RAISED REFLECTIVE MARKERS SHALL BE INSTALLED AT ALL NEW PAVEMENT IN ACCORDANCE WITH NCDOT STD. 1250.01 & 1251.01

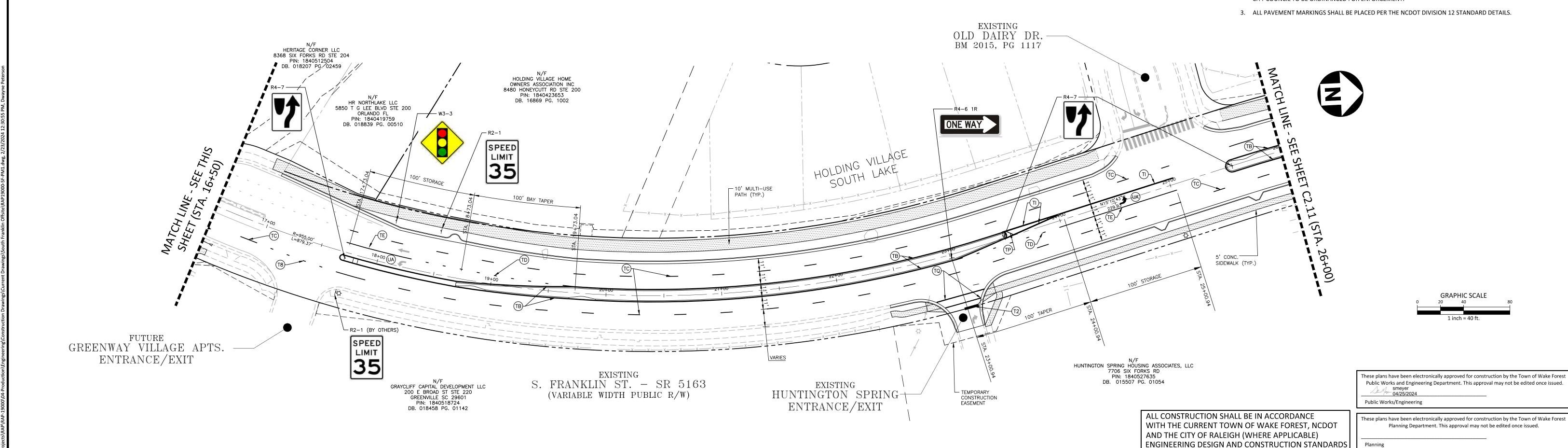
PAVEMENT MARKING LEGEND

TB 4" YELLOW EDGELINE

- TC 4" WHITE SKIP (10' 30' SP.)
 TD 4" WHITE MINISKIP (3' 9' SP.)
- TE 4" WHITE SOLID LANE LINE
 TI 4" YELLOW DOUBLE CENTER
- TP 8" YELLOW DIAGONAL
 TQ 8" WHITE CROSSWALK LINE
- T2 24" WHITE STOPBAR
- T3 24" WHITE CROSSWALK LINE (HIGH VISIBILITY)
- ARROWS/CHARACTERS
- UA LEFT TURN ARROW
 UB RIGHT TURN ARROW
- UE COMBINATION STRAIGHT/RIGHT TURN ARROW

PAVEMENT MARKING NOTES

- 1. ALL PAVEMENT MARKINGS SHOWN IN THESE PLANS FOR THE TOWN OF WAKE FOREST MAINTAINED STREETS ARE SUBJECT TO FINAL APPROVAL FROM PUBLIC WORKS STREETS DIVISION. CONTRACTOR SHALL CONTACT STREETS AT 919-435-9578 FOR COORDINATION AND FINAL APPROVAL PRIOR TO PLACEMENT OF ANY PAVEMENT MARKINGS. MARKINGS WITHIN NCDOT RIGHT-OF-WAYS SHALL BE IN COMPLIANCE WITH NCDOT STANDARDS AND SPECIFICATIONS.
- 2. ALL SIGNS & PAVEMENT MARKINGS ASSOCIATED WITH THE PUBLIC STREET SYSTEM WILL REQUIRE APPROVAL BY CITY COUNCIL TO BE ORDINANCED FOR ENFORCEMENT.





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CLIENT
TOWN OF WAKE FOREST
301 S. BROOKS STREET
WAKE FOREST, NC 27587-2901
Patrick Reidy

PHONE: 919. 435. 9510

REVISIONS
NO. DATE
1
2
3
4



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000
FILENAME RAP19000-SF-PM1
CHECKED BY DLP
DRAWN BY RJF
SCALE 1" = 40'

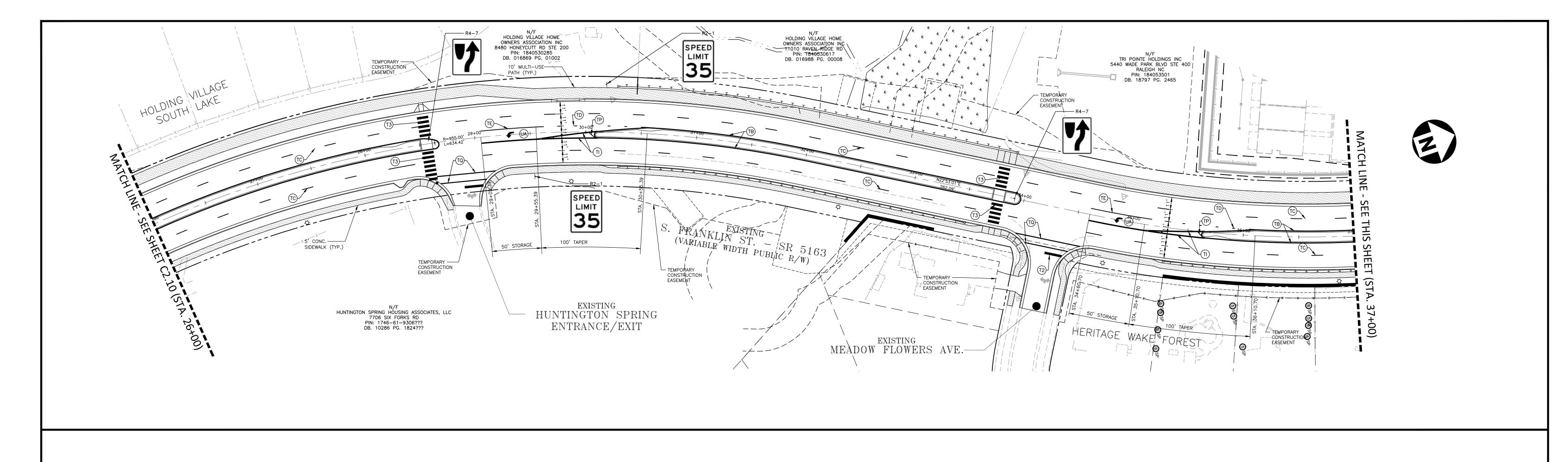
02. 23. 2024

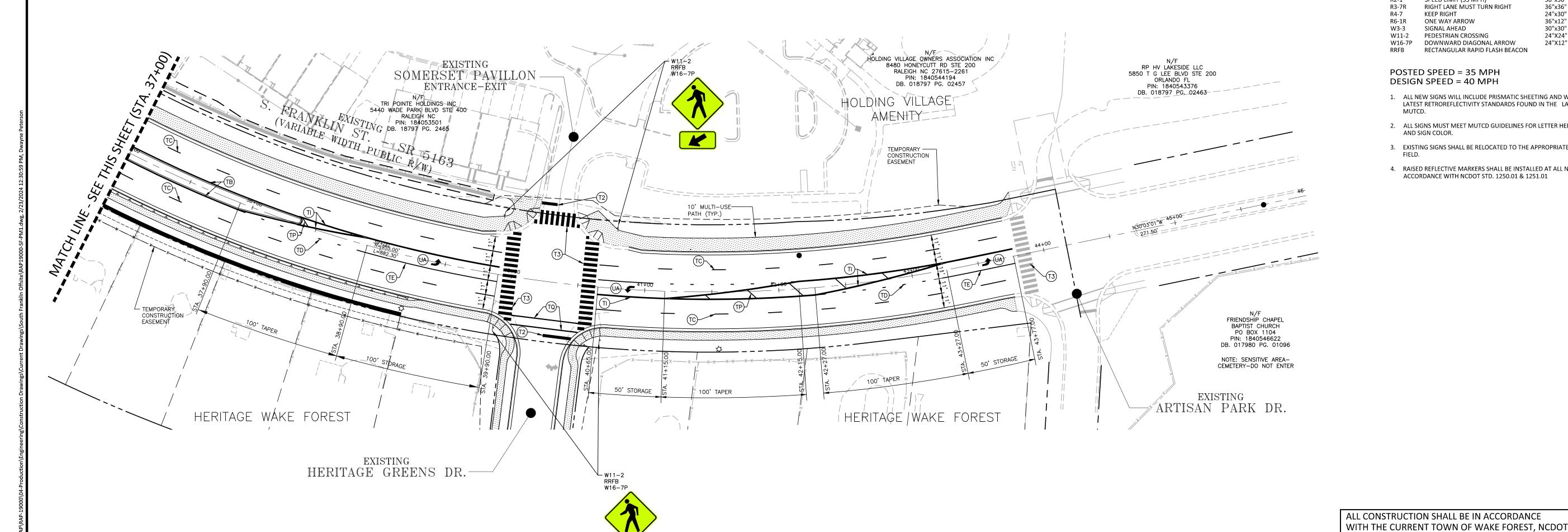
DATE

PAVEMENT MARKING PLAN
S. FRANKLIN STREET, STA. 10+00 THRU STA. 26+00

FINAL DRAWING - RELEASED FOR CONSTRUCTIO

C2.10





SIGNAGE LEGEND

SPEED LIMIT (35 MPH) RIGHT LANE MUST TURN RIGHT 36"x36" KEEP RIGHT 24"x30" ONE WAY ARROW 36"x12" 30"x30" SIGNAL AHEAD PEDESTRIAN CROSSING 24"X24" W16-7P DOWNWARD DIAGONAL ARROW RECTANGULAR RAPID FLASH BEACON

POSTED SPEED = 35 MPH DESIGN SPEED = 40 MPH

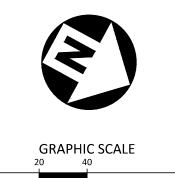
- 1. ALL NEW SIGNS WILL INCLUDE PRISMATIC SHEETING AND WILL CONFORM TO THE LATEST RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE
- 2. ALL SIGNS MUST MEET MUTCD GUIDELINES FOR LETTER HEIGHT, LETTER CASE
- 3. EXISTING SIGNS SHALL BE RELOCATED TO THE APPROPRIATE LOCATION IN THE
- 4. RAISED REFLECTIVE MARKERS SHALL BE INSTALLED AT ALL NEW PAVEMENT IN ACCORDANCE WITH NCDOT STD. 1250.01 & 1251.01

PAVEMENT MARKING LEGEND

- TC 4" WHITE SKIP (10' 30' SP.)
- TD 4" WHITE MINISKIP (3' 9' SP.)
 TE 4" WHITE SOLID LANE LINE TI 4" YELLOW DOUBLE CENTER
- TP 8" YELLOW DIAGONAL
- TQ 8" WHITE CROSSWALK LINE T2 24" WHITE STOPBAR T3 24" WHITE CROSSWALK LINE (HIGH VISIBILITY)
- ARROWS/CHARACTERS

UA LEFT TURN ARROW

- UB RIGHT TURN ARROW
- UE COMBINATION STRAIGHT/RIGHT TURN ARROW



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Public Works/Engineering These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be edited once issued.

FINAL DRAWING - RELEASED FOR CONSTRUCTIO

MCADAMS

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phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

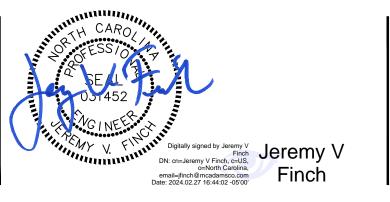
TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901

Patrick Reidy

CLIENT

PHONE: 919. 435. 9510

REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

AND THE CITY OF RALEIGH (WHERE APPLICABLE)

DATE

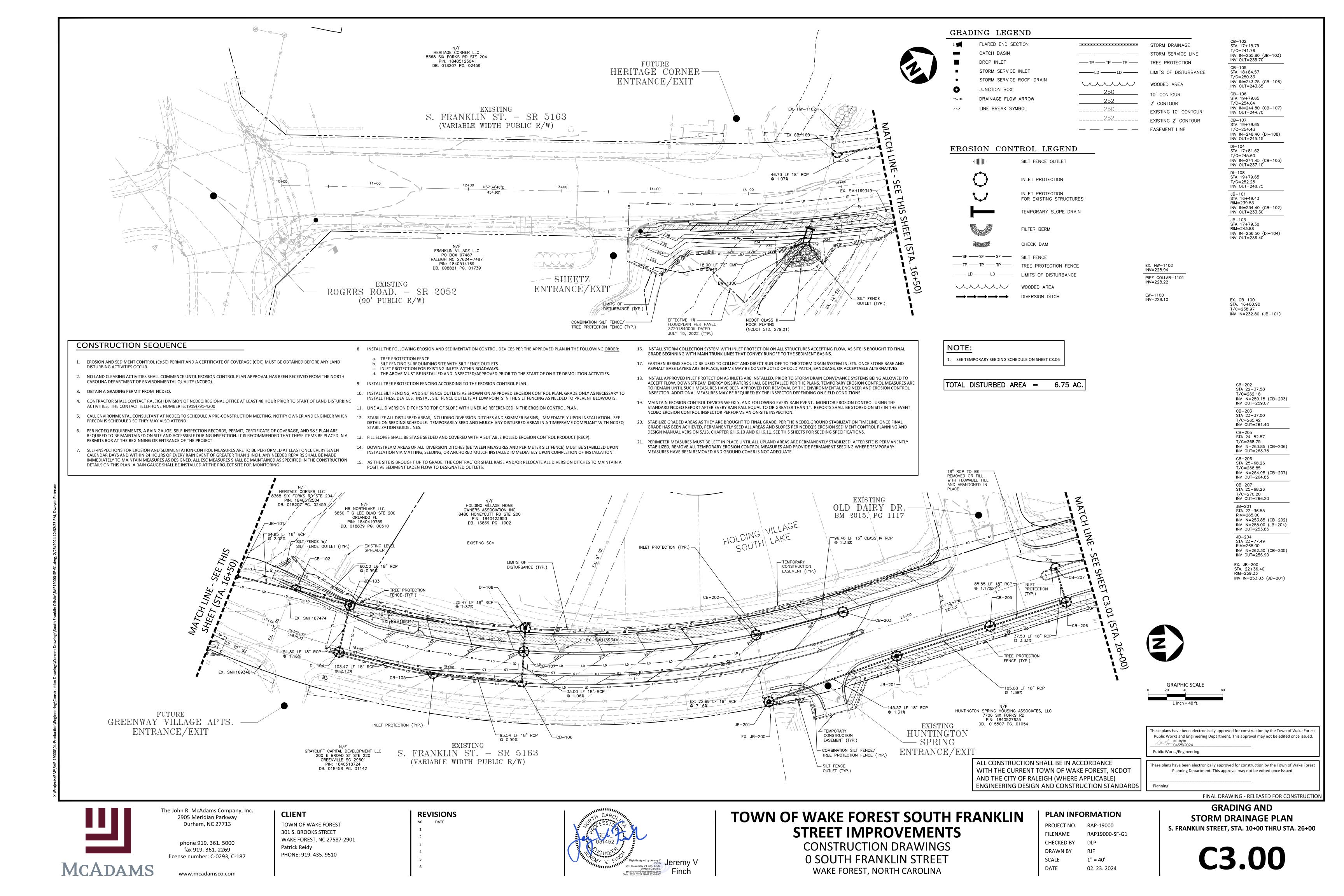
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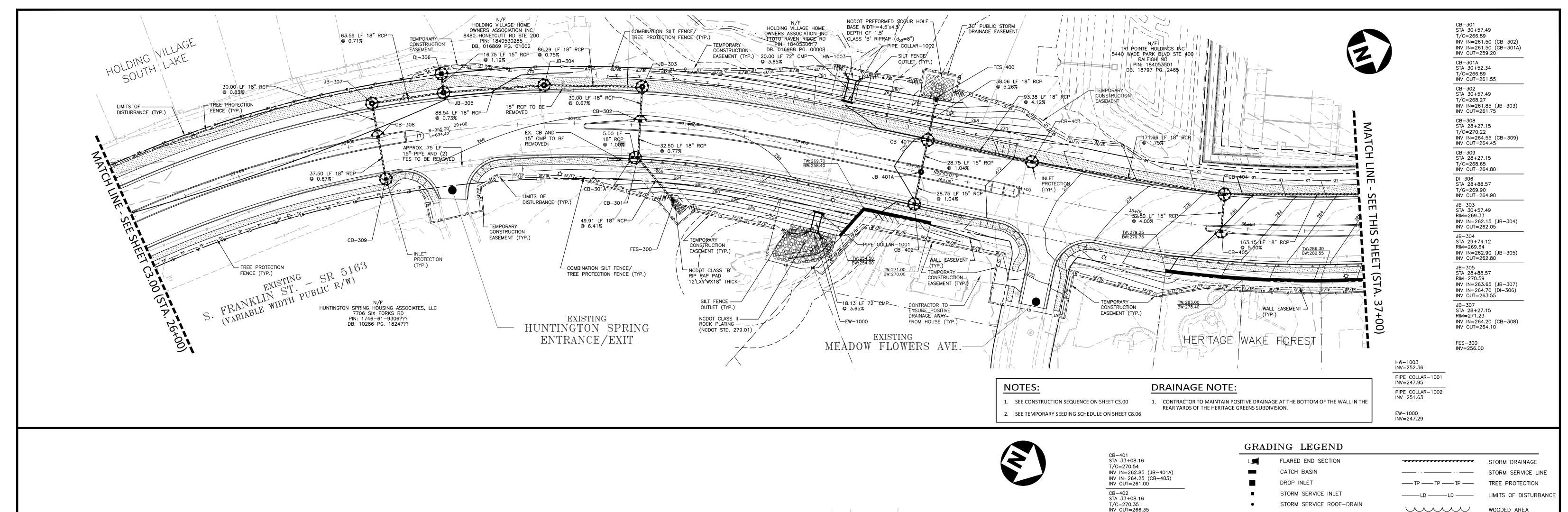
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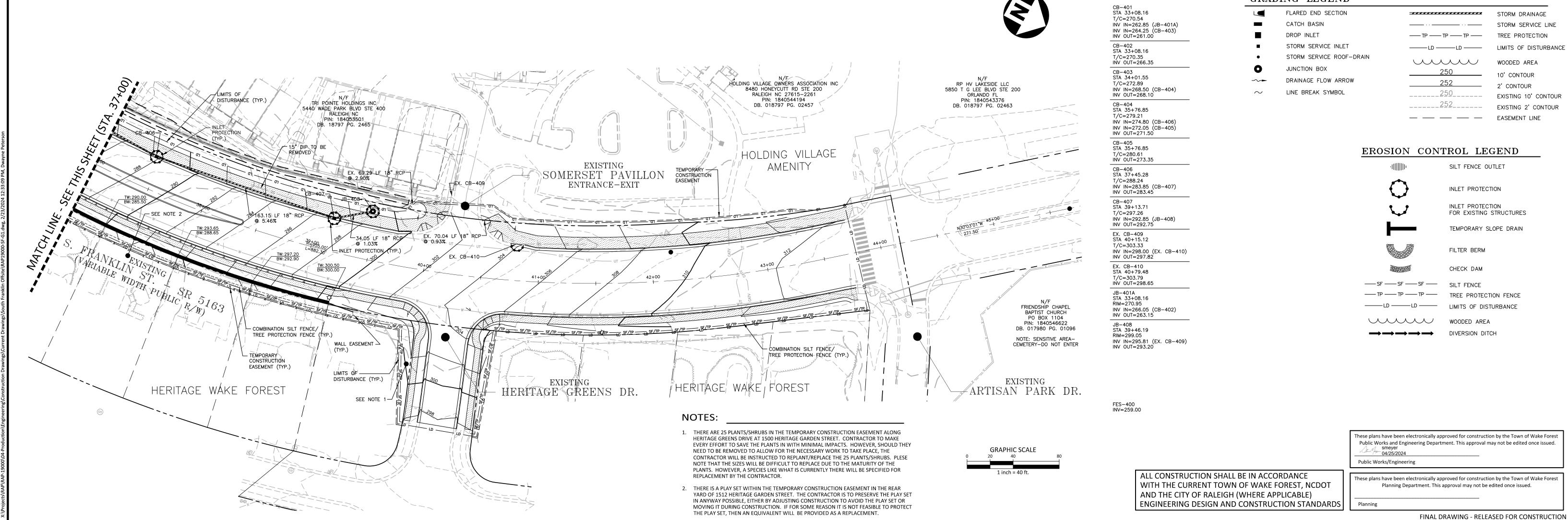
02. 23. 2024

PAVEMENT MARKING PLAN S. FRANKLIN STREET, STA. 26+00 THRU STA. 46+00

C2.11









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TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

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PLAN INFORMATION

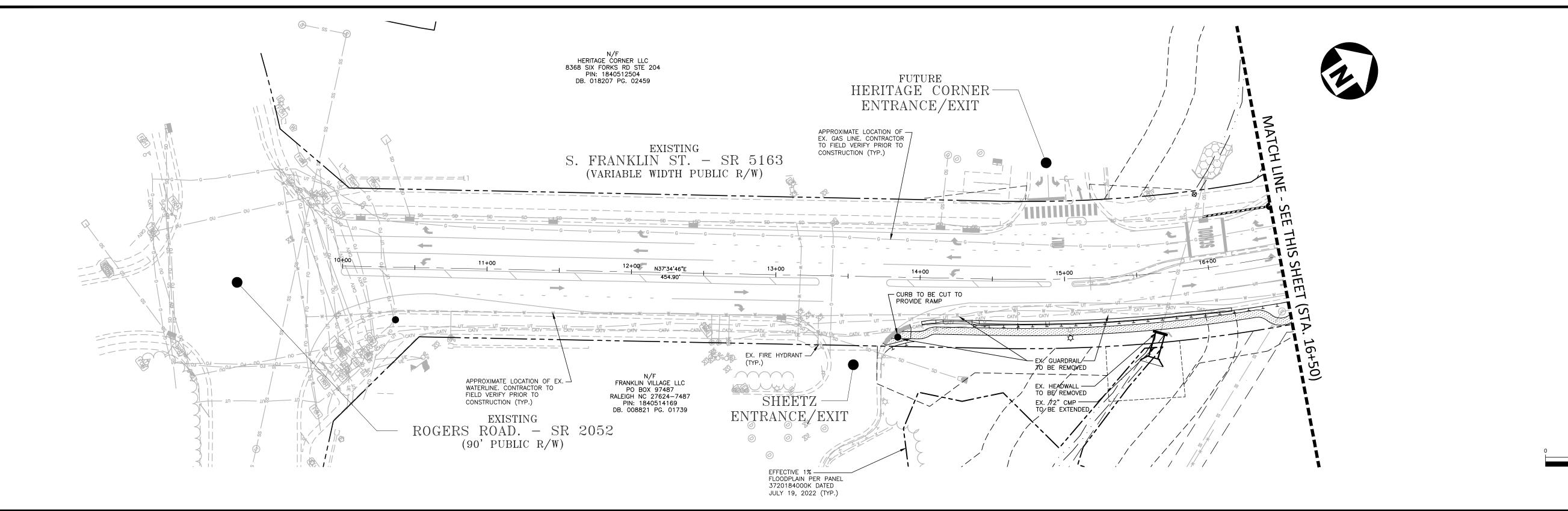
PROJECT NO. RAP-19000 **FILENAME** RAP19000-SF-G1 CHECKED BY DRAWN BY SCALE 1" = 40' DATE 02. 23. 2024

GRADING AND

STORM DRAINAGE PLAN

S. FRANKLIN STREET, STA. 26+00 THRU STA. 46+00

C3.01



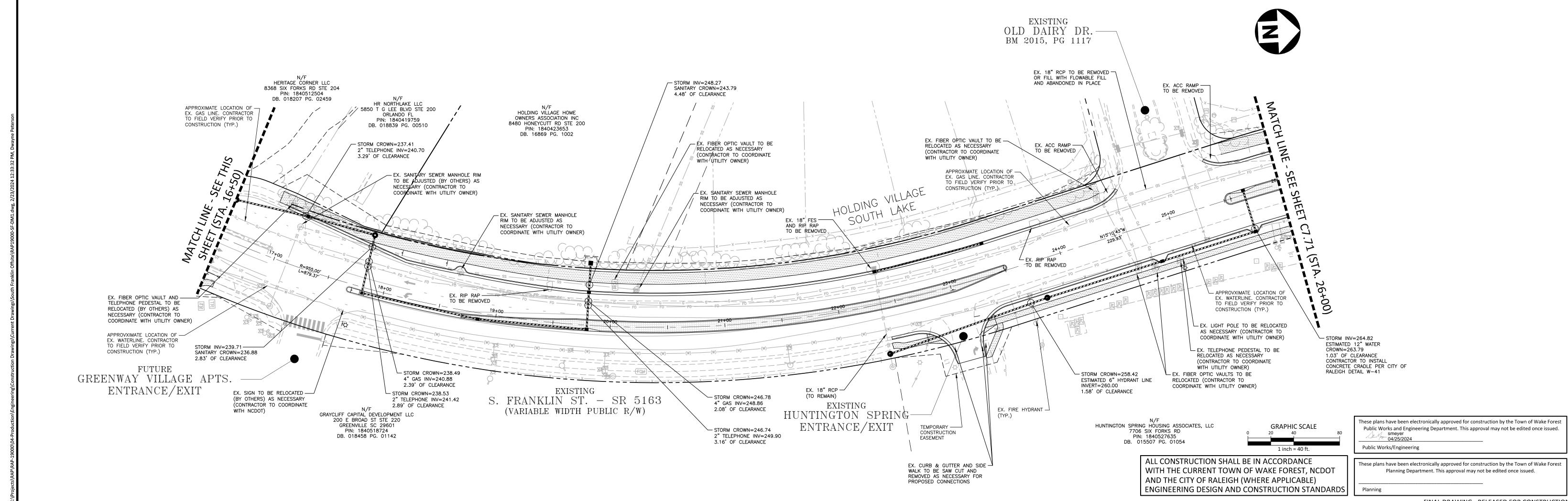
DEMOLITION NOTES

- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- 2. ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
- 3. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ENGINEER IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- 4. VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- 5. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ENGINEER, TO THE OWNER'S SATISFACTION.
- 6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE
- 7. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. NOT DESIGNATED TO BE REMOVED SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH
- 8. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION

CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).

- 9. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT
- 10. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. BONDS AND APPROVED ENCROACHMENT PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.
- 11. PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF RALEIGH PUBLIC WORKS DEPARTMENT (919) 996-2409, NCDOT AND A REPRESENTATIVE OF THE
- 12. CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS WITH THE SUBJECT UTILITY OWNER.

LEGEND PAVEMENT REMOVAL





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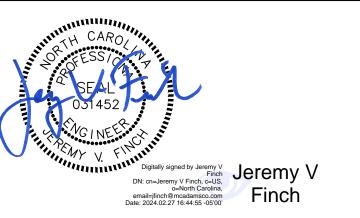
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CLIENT TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy

PHONE: 919. 435. 9510

REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

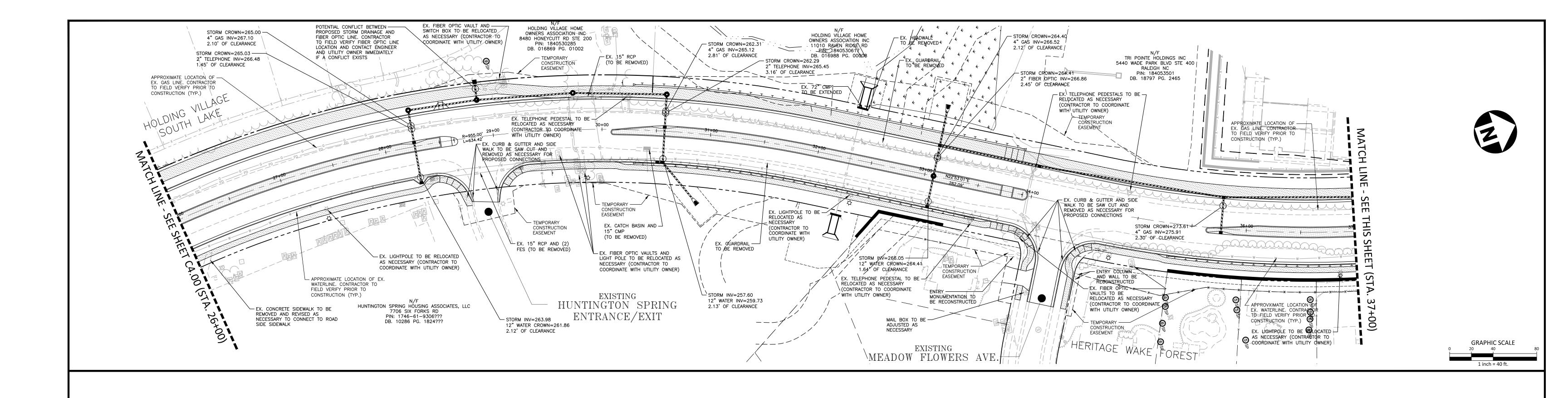
CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

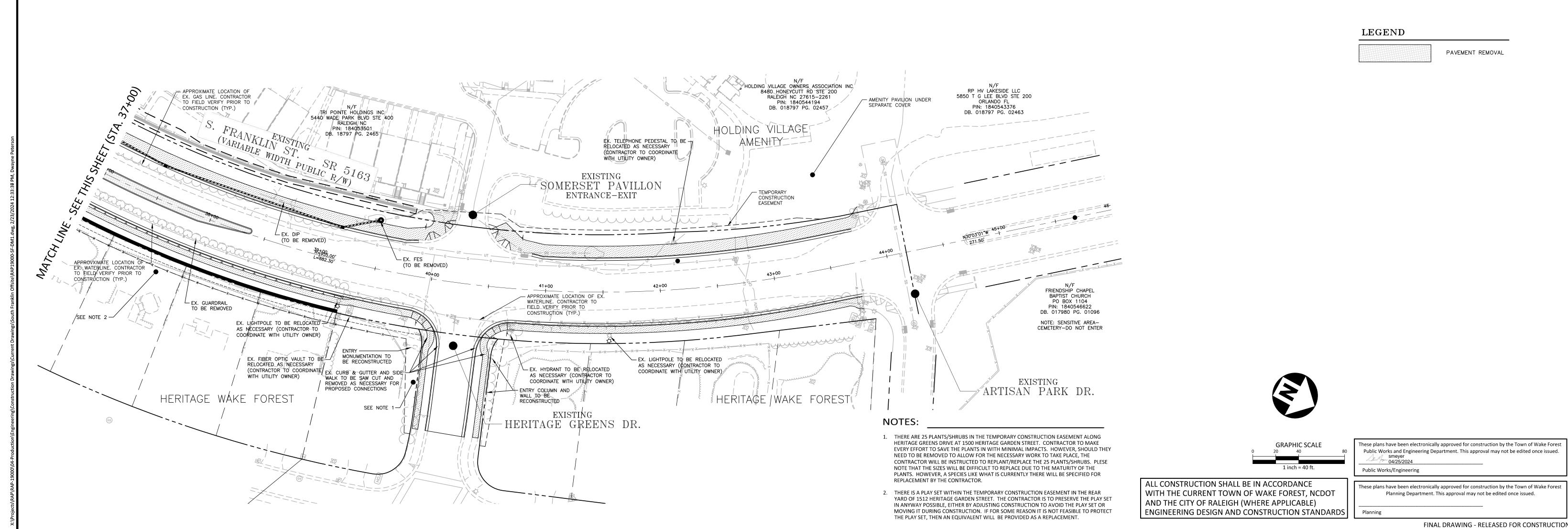
PLAN INFORMATION

PROJECT NO. RAP-19000 **FILENAME** RAP19000-SF-DM1 CHECKED BY DRAWN BY SCALE 1" = 40' DATE 02. 23. 2024

FINAL DRAWING - RELEASED FOR CONSTRUCTIO **DEMOLITION AND UTILITY CONFLICT PLAN**

S. FRANKLIN STREET, STA. 10+00 THRU STA. 26+00







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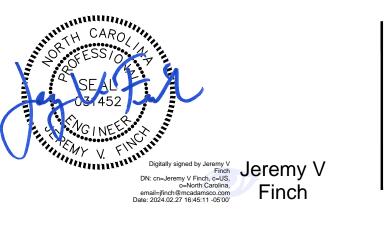
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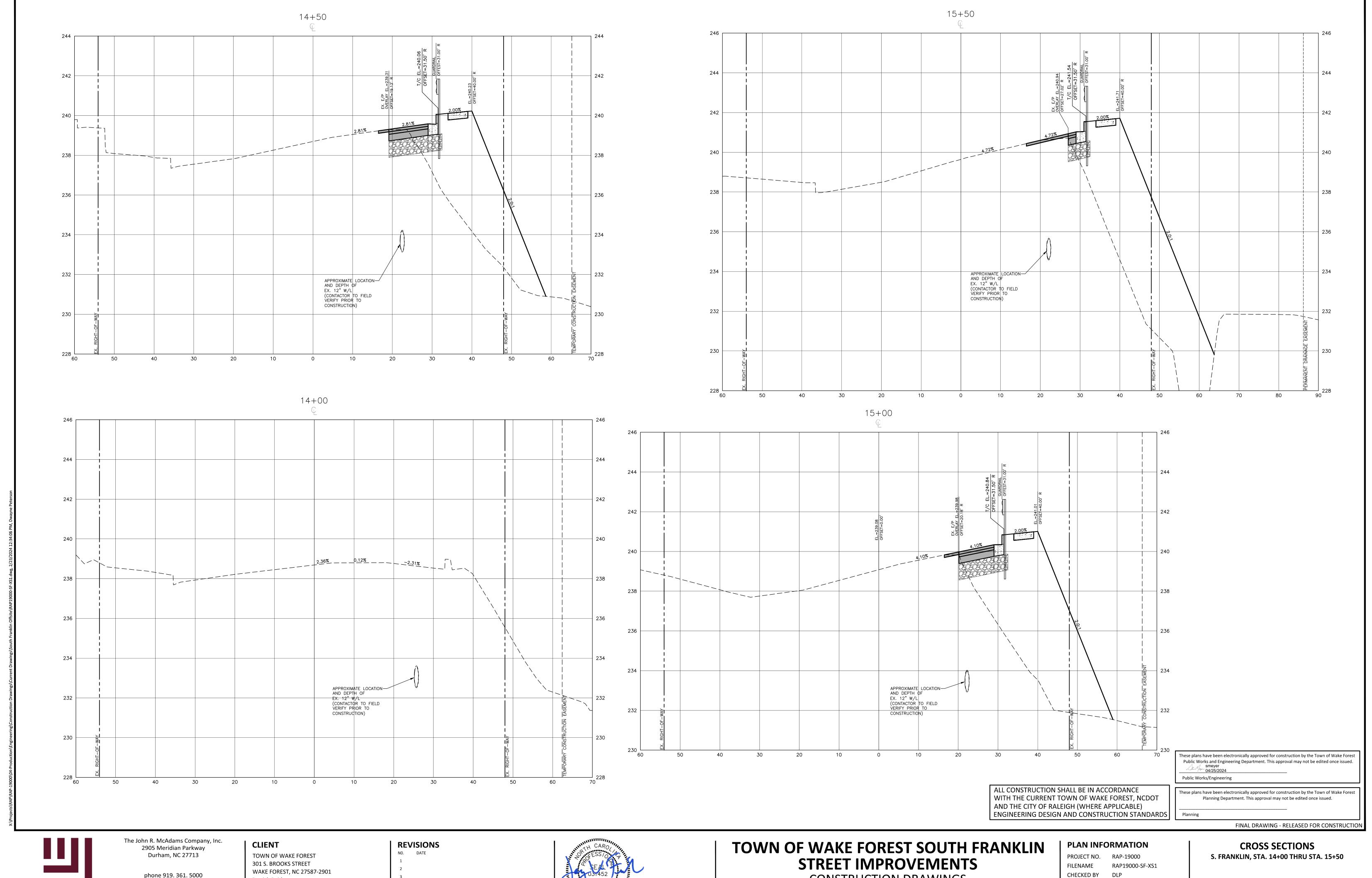
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PROJECT NO. RAP-19000 FILENAME RAP19000-SF-DM1 CHECKED BY DRAWN BY SCALE 1" = 40' DATE 02. 23. 2024

DEMOLITION AND UTILITY CONFLICT PLAN

C4.01

S. FRANKLIN STREET, STA. 26+00 THRU STA. 46+00





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Patrick Reidy PHONE: 919. 435. 9510



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CHECKED BY

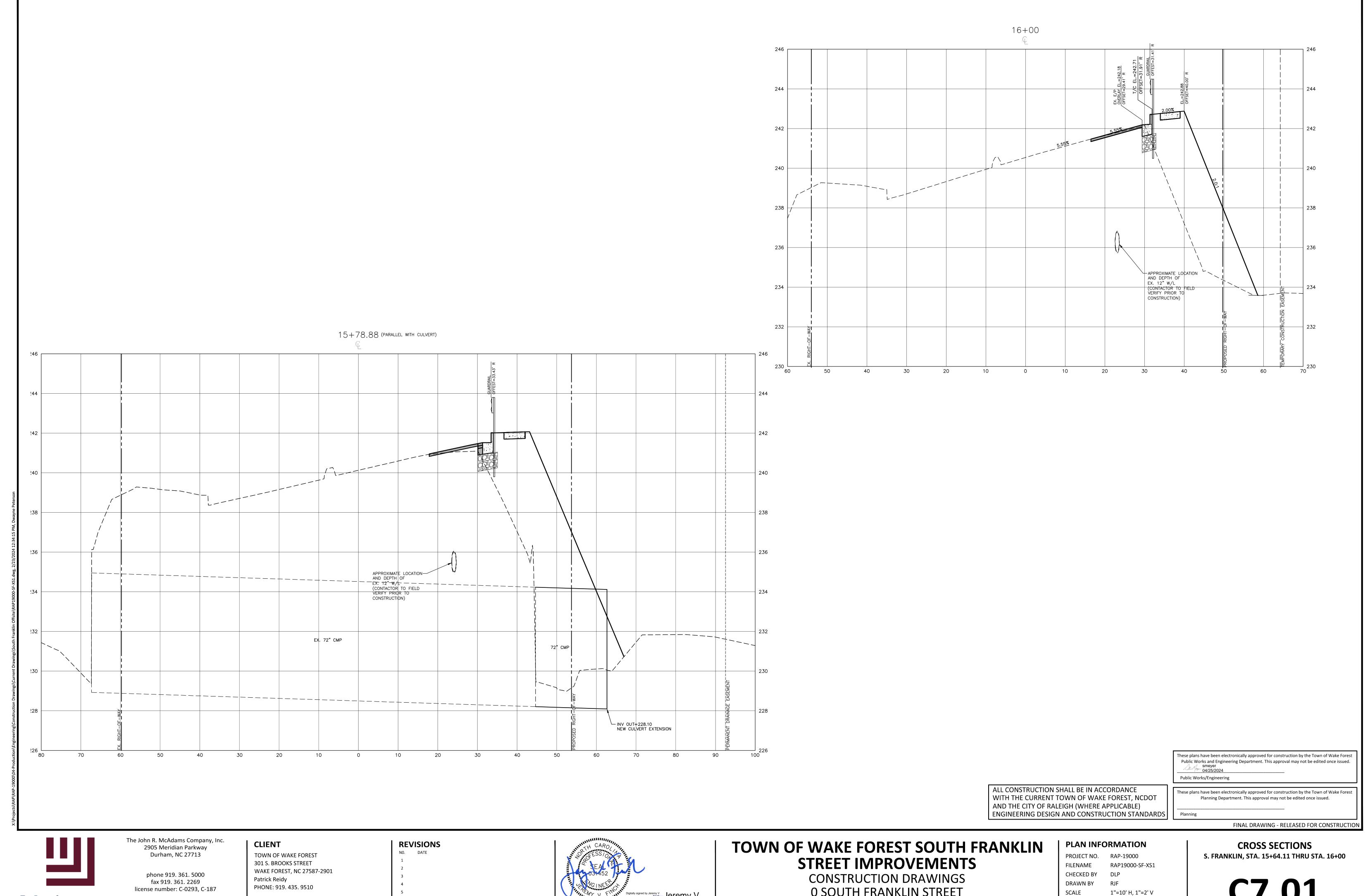
1"=10' H, 1"=2' V

02. 23. 2024

DRAWN BY

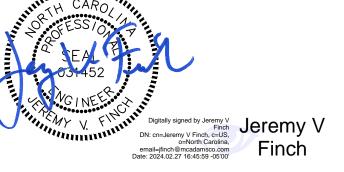
SCALE

DATE



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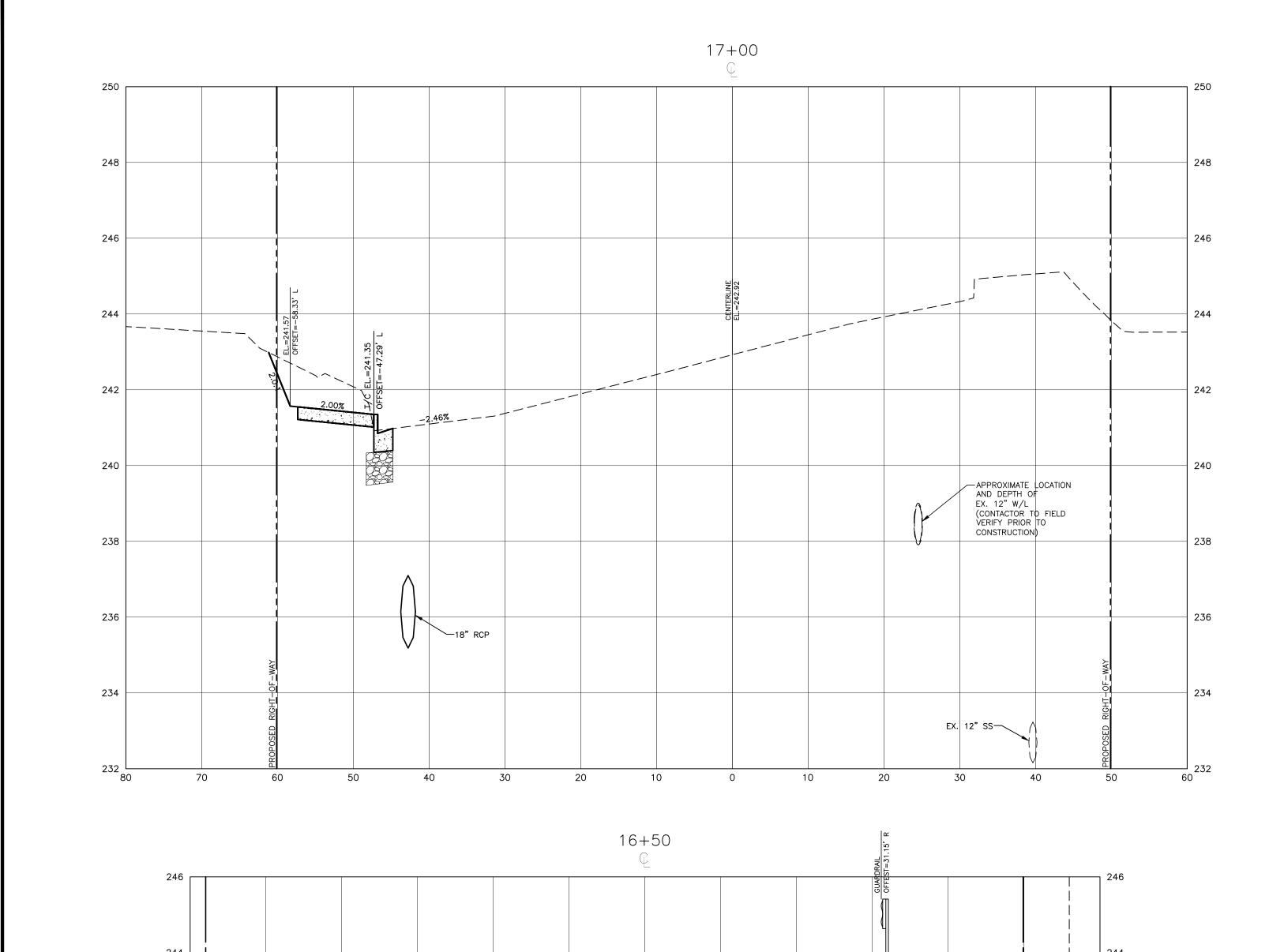
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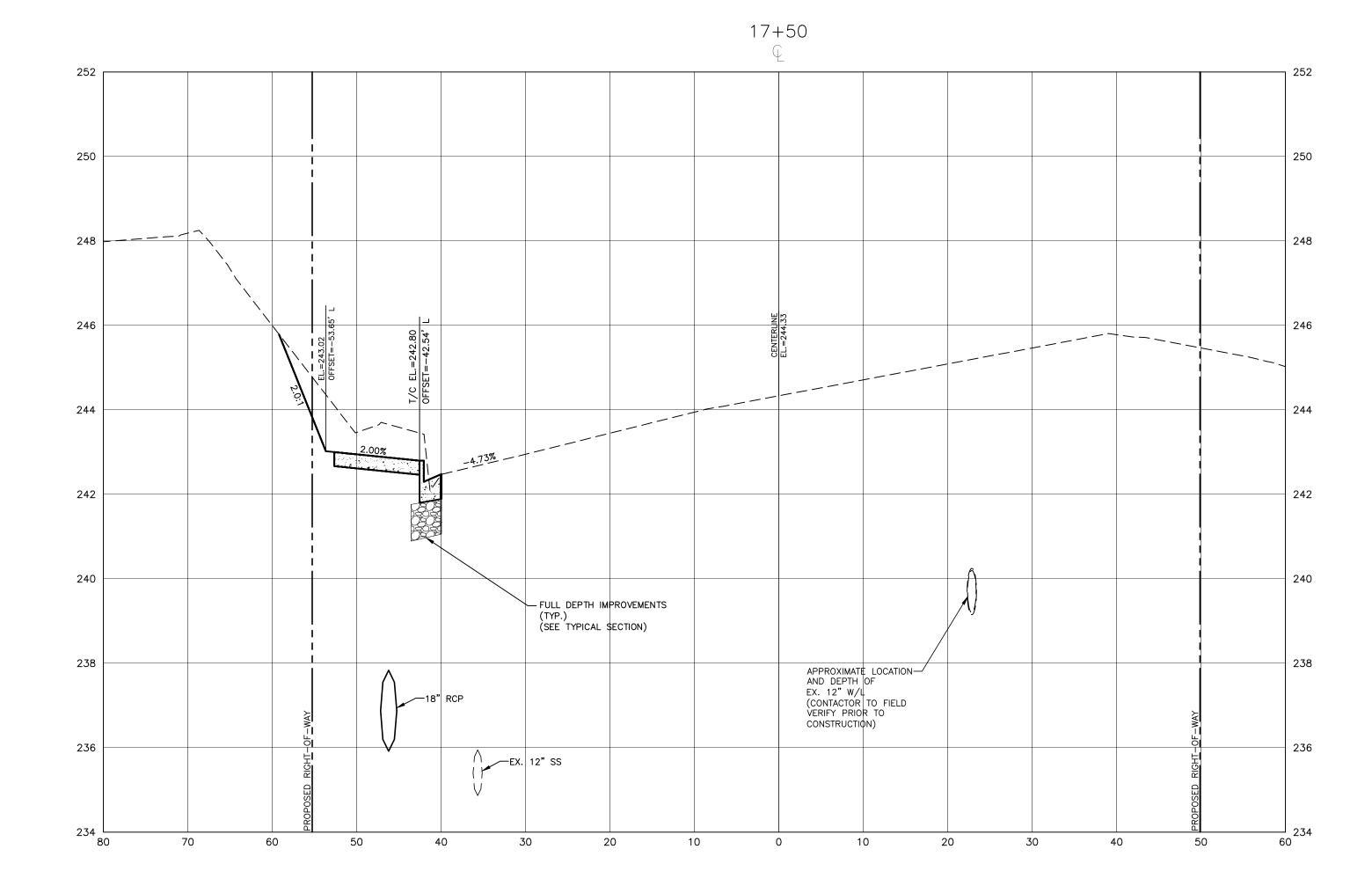


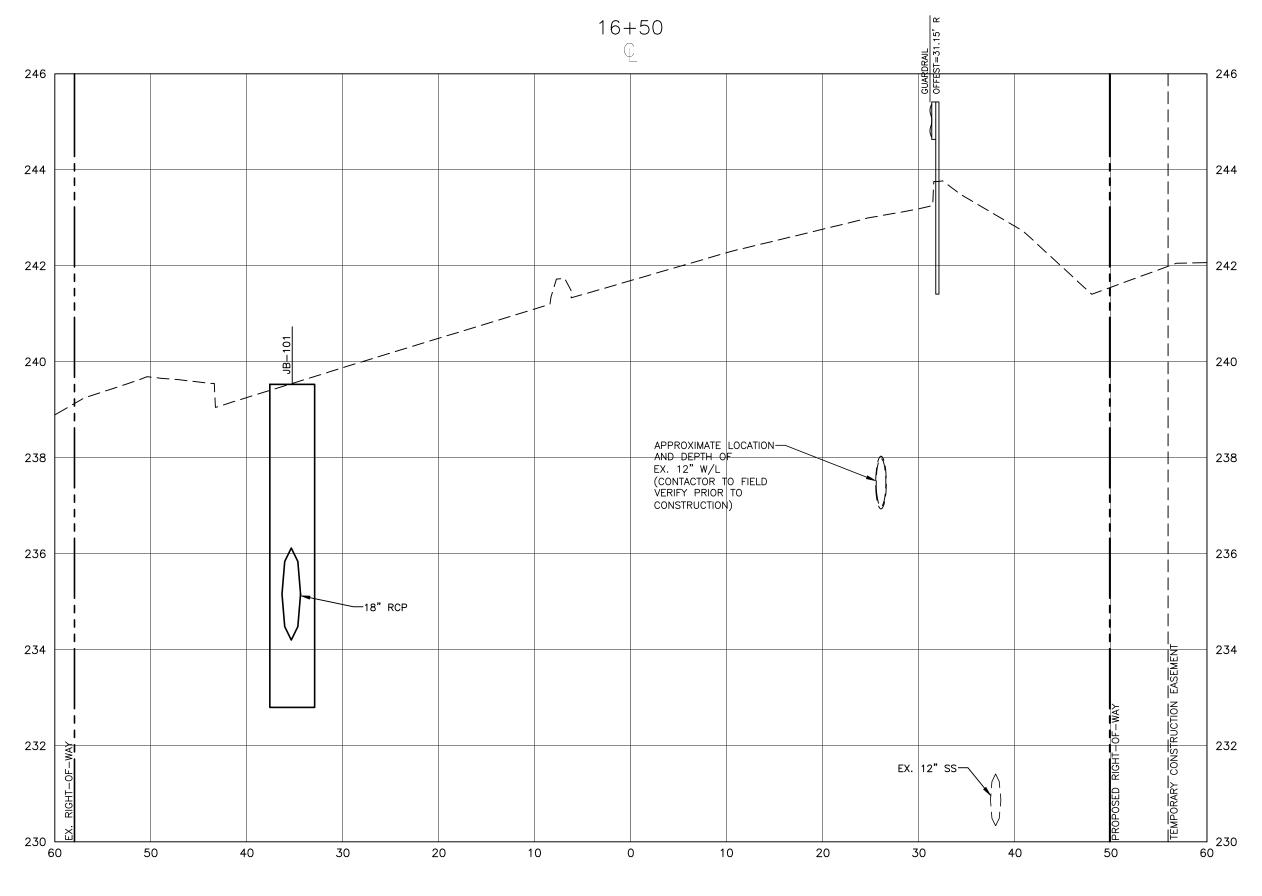
O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

DATE

02. 23. 2024







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Planning Department. This approval may not be edited once issued. FINAL DRAWING - RELEASED FOR CONSTRUCTION



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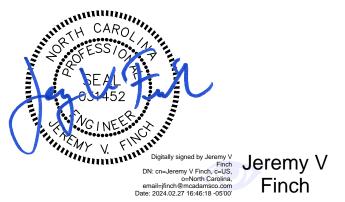
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Patrick Reidy

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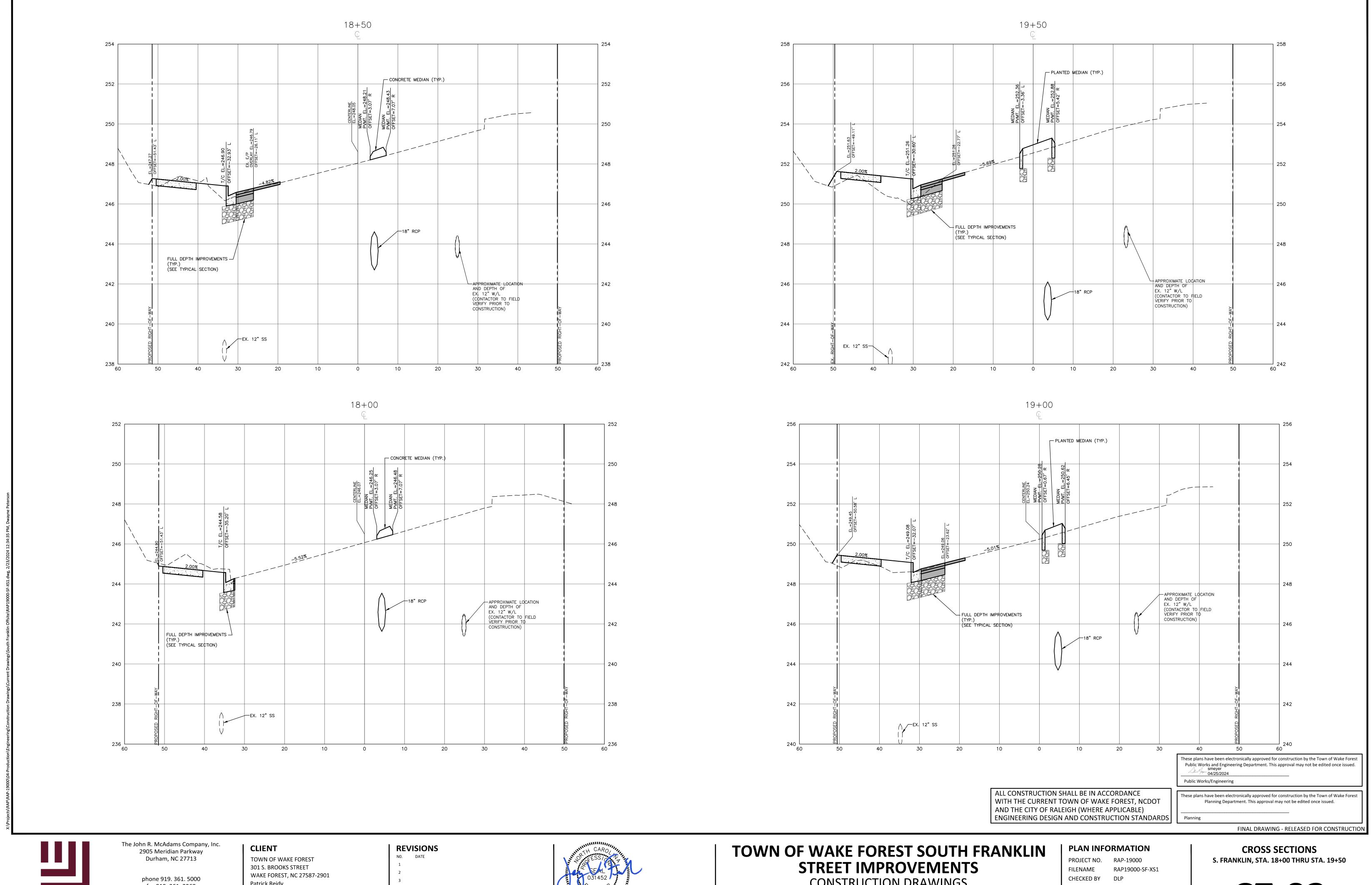
CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 FILENAME

RAP19000-SF-XS1 CHECKED BY DRAWN BY SCALE 1"=10' H, 1"=2' V DATE 02. 23. 2024

CROSS SECTIONS S. FRANKLIN, STA. 16+50 THRU STA. 17+50





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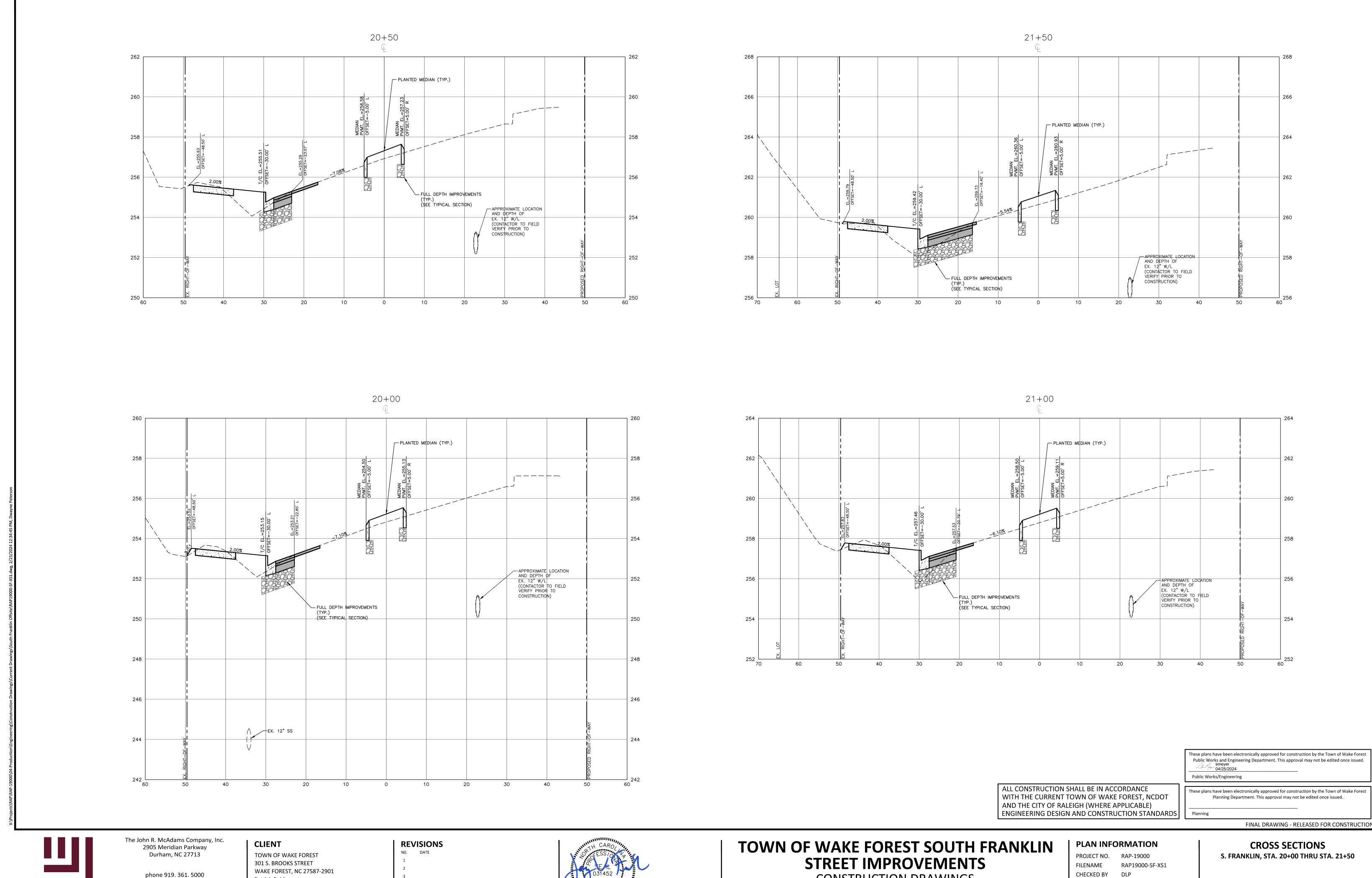
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DRAWN BY 1"=10' H, 1"=2' V SCALE DATE 02. 23. 2024





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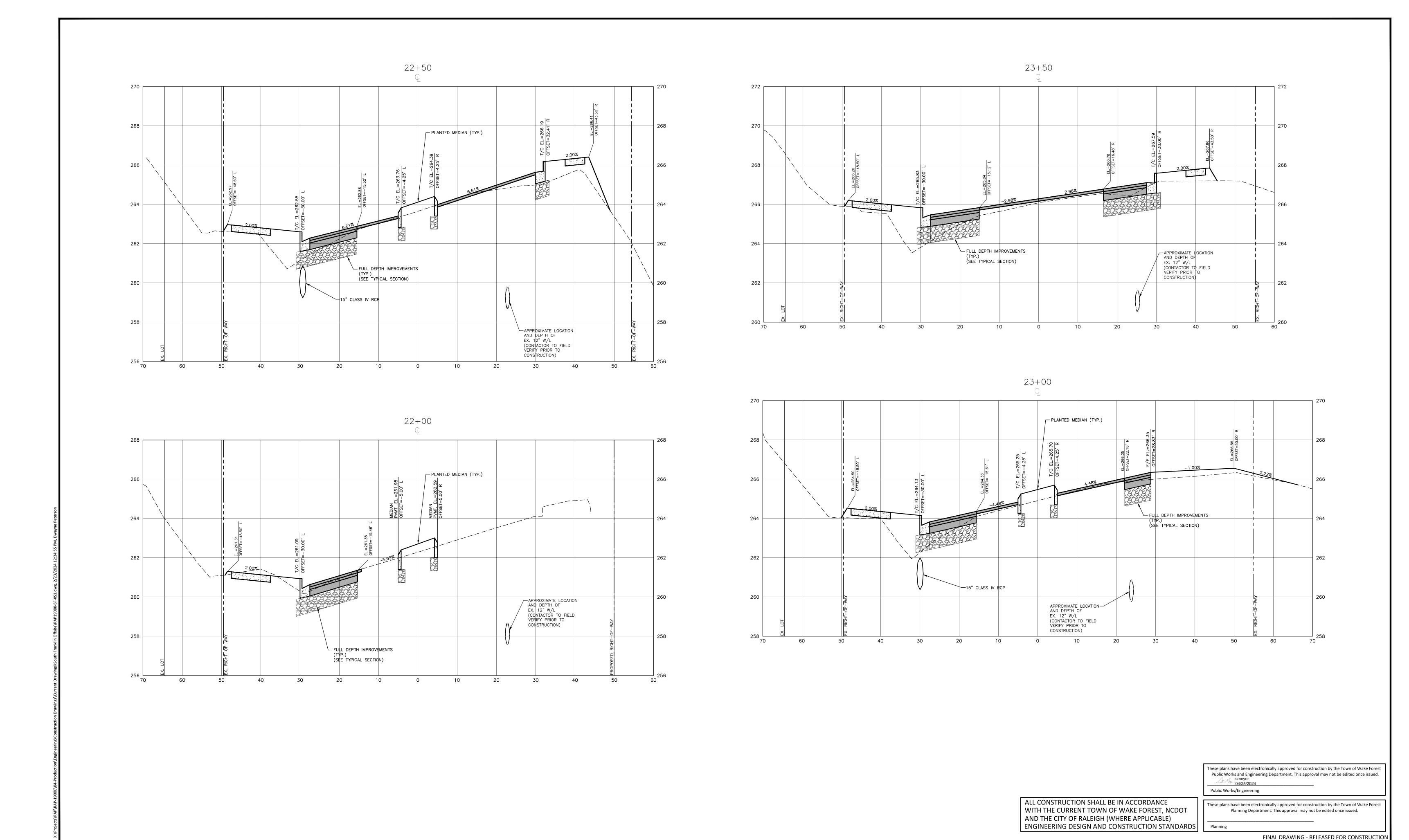
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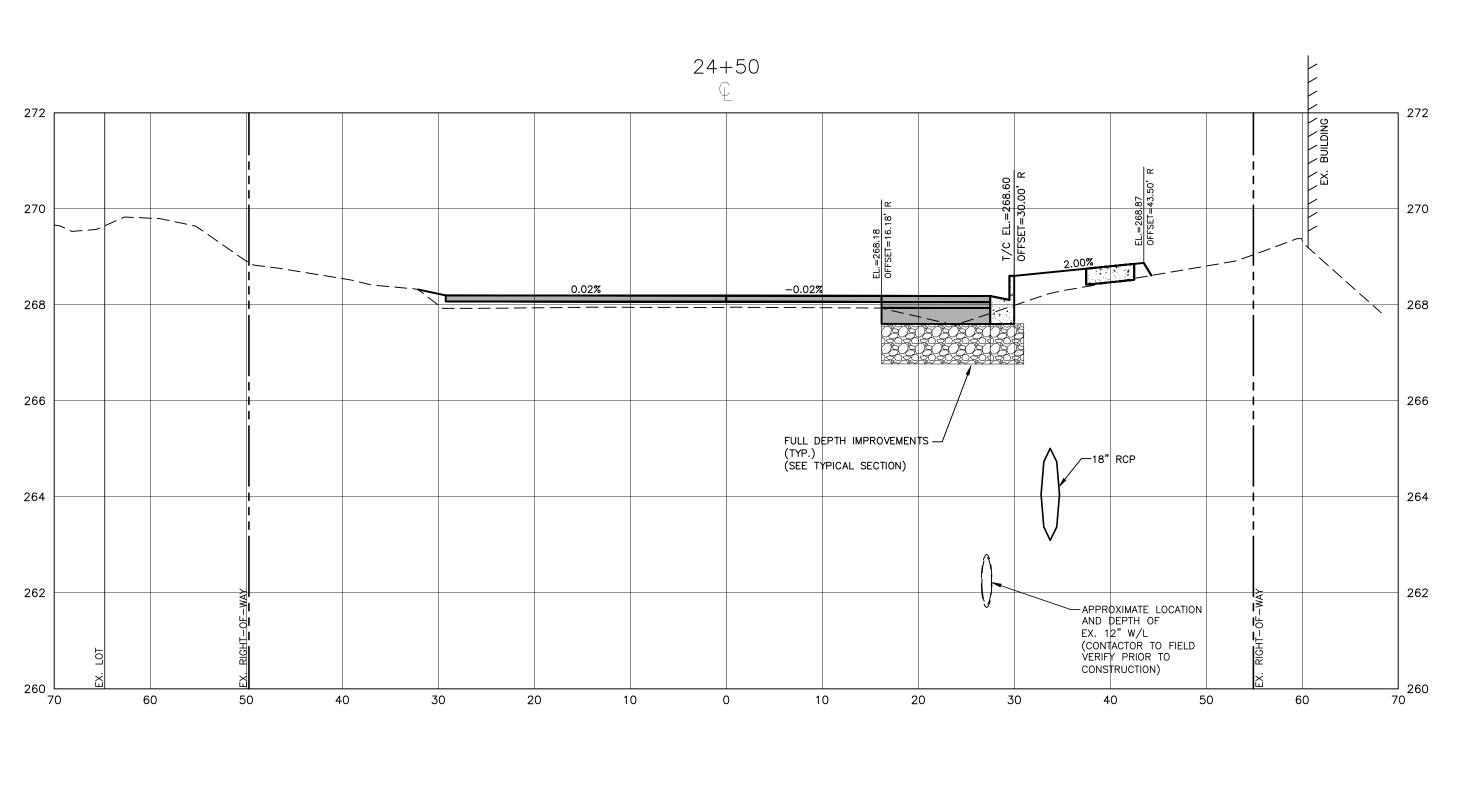
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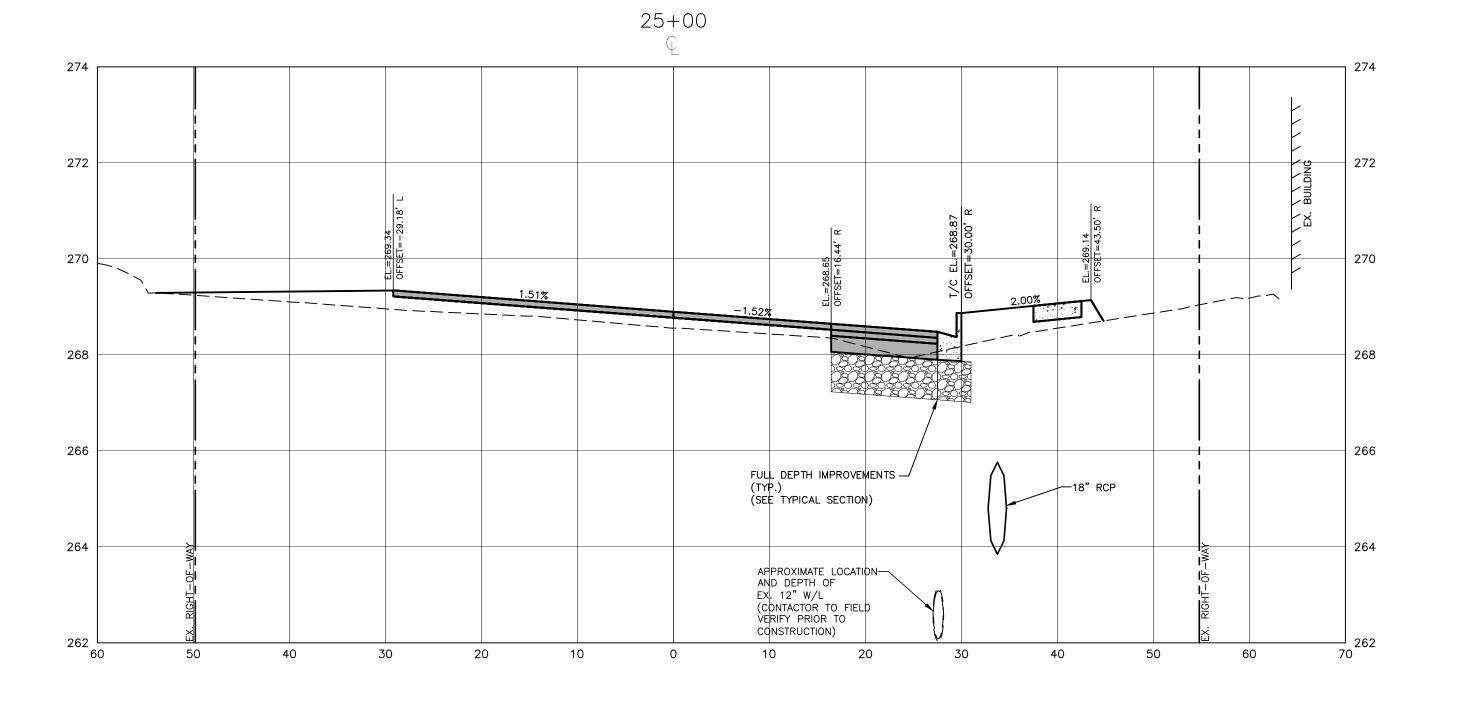
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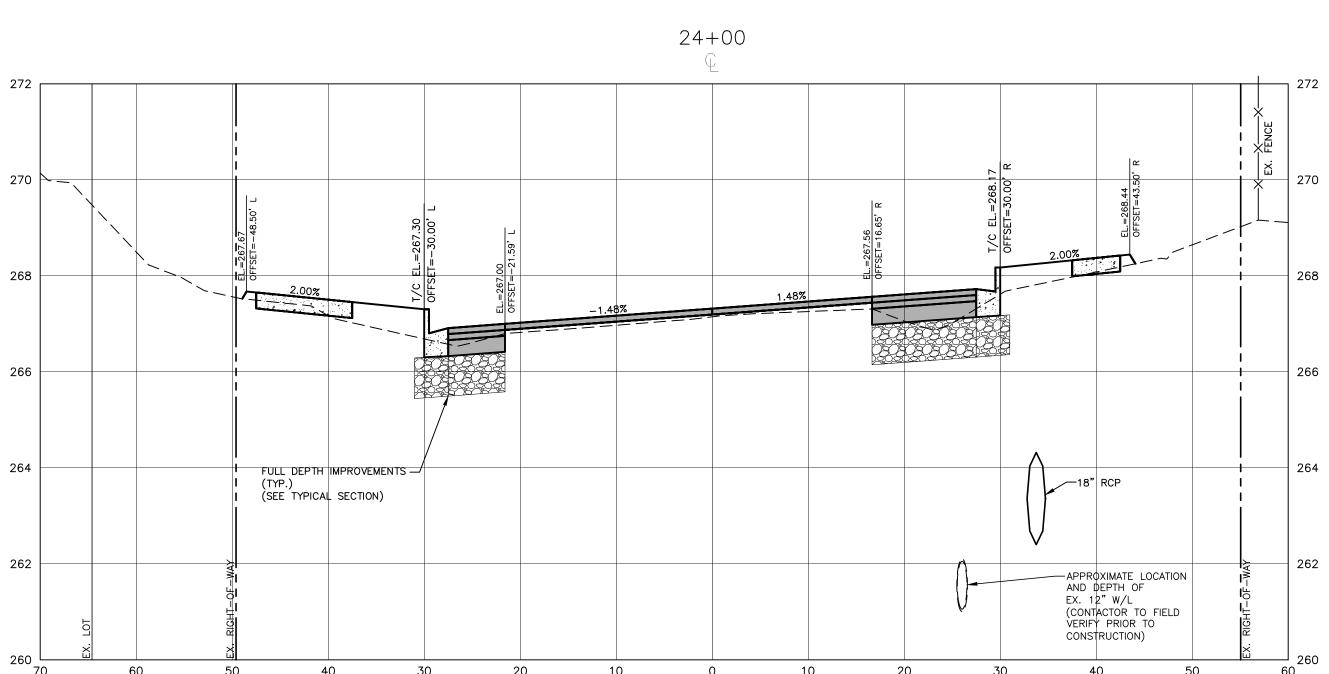
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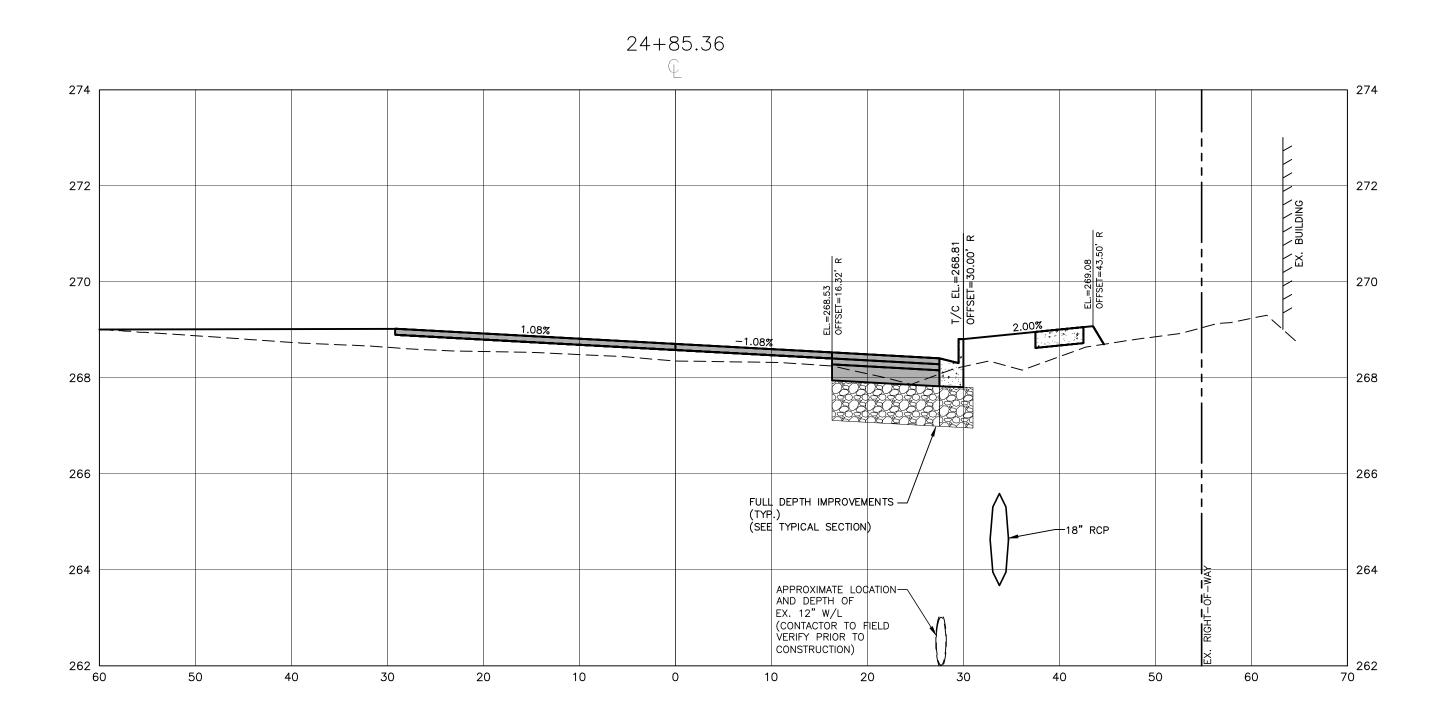
RAP19000-SF-XS1 CHECKED BY DRAWN BY 1"=10' H, 1"=2' V SCALE DATE 02. 23. 2024

CROSS SECTIONS S. FRANKLIN, STA. 22+00 THRU STA. 23+50









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FINAL DRAWING - RELEASED FOR CONSTRUCTION



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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS 0 SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

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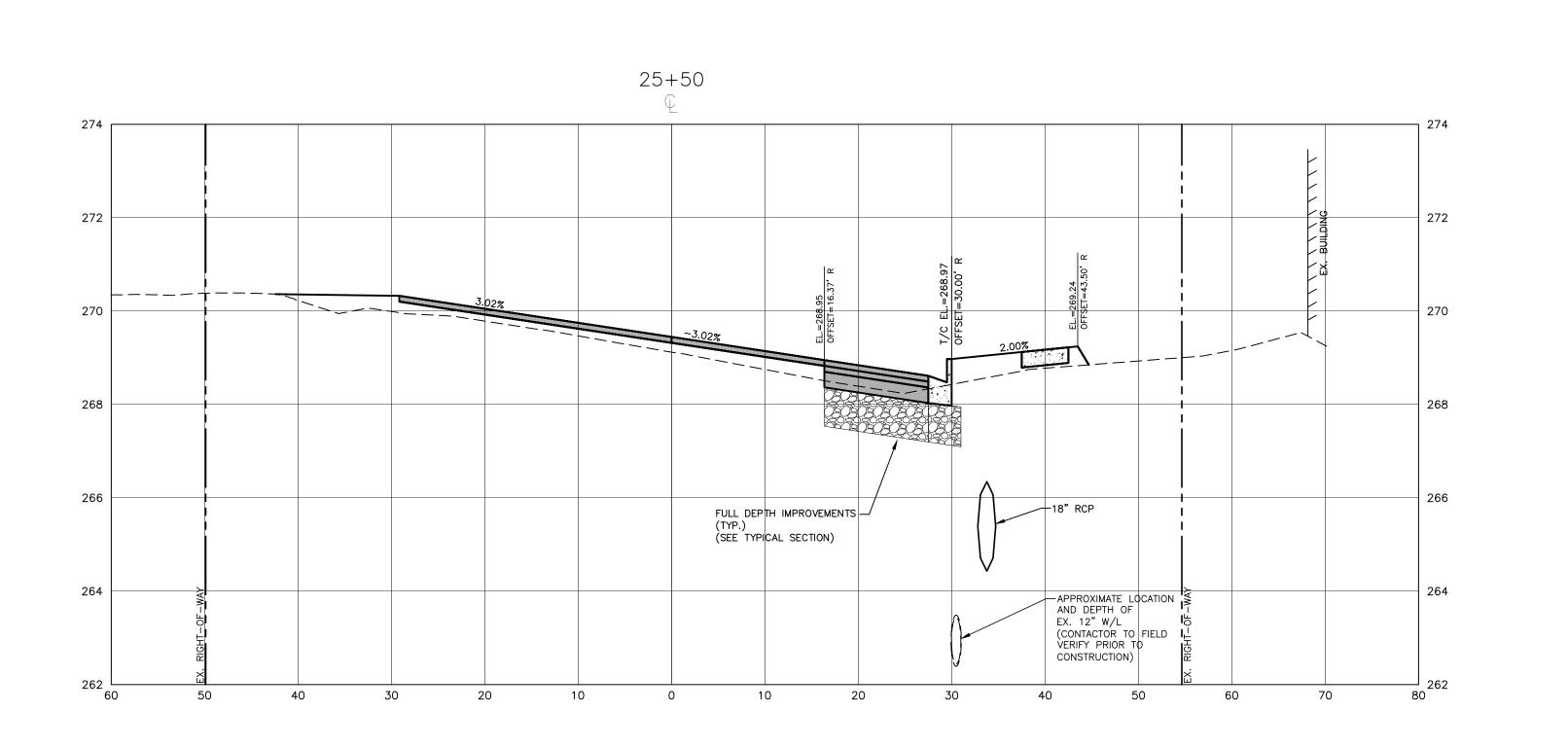
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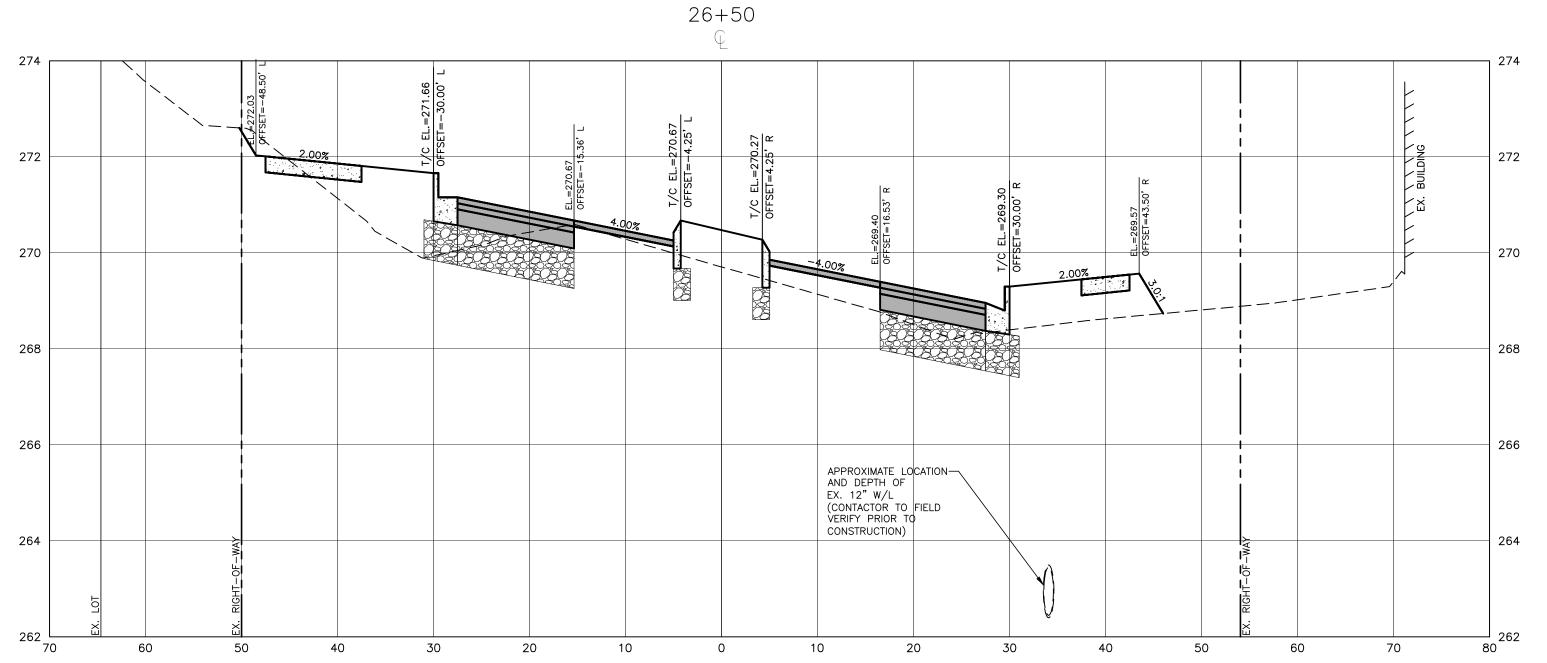
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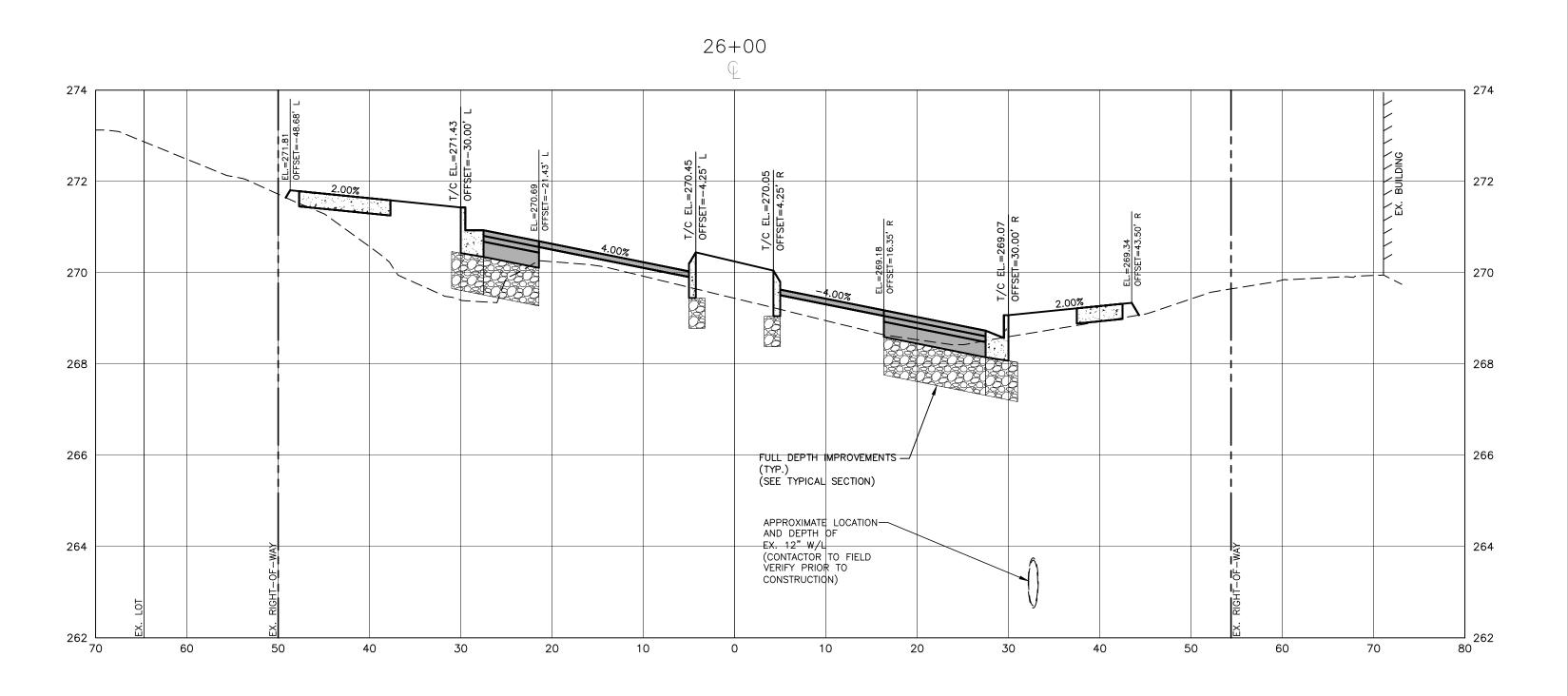
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CROSS SECTIONS S. FRANKLIN, STA. 24+00 THRU STA. 25+00

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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

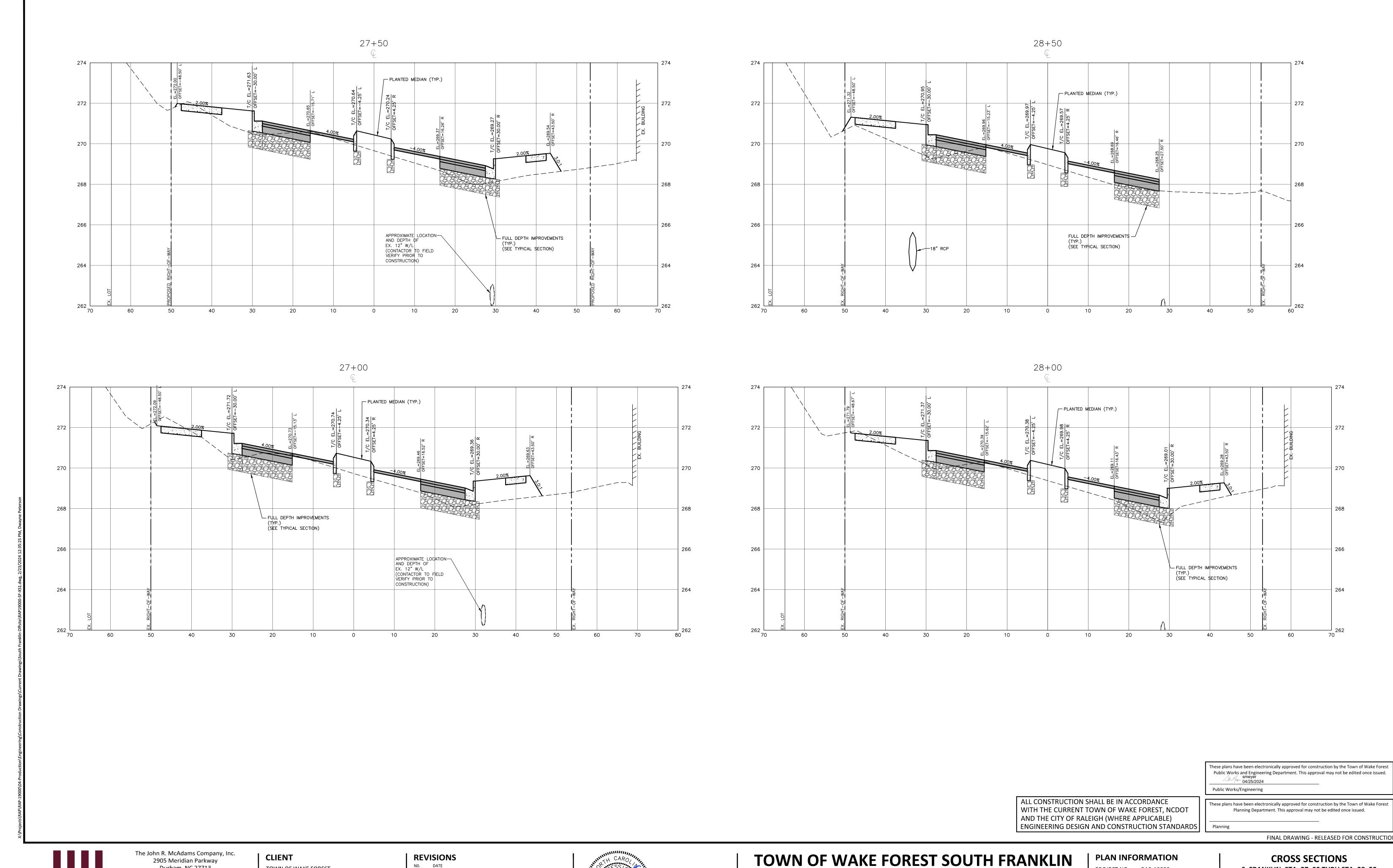
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CROSS SECTIONS S. FRANKLIN, STA. 25+50 THRU STA. 26+50





Durham, NC 27713

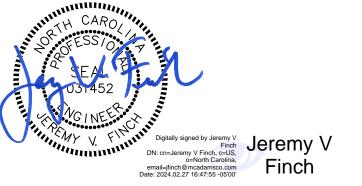
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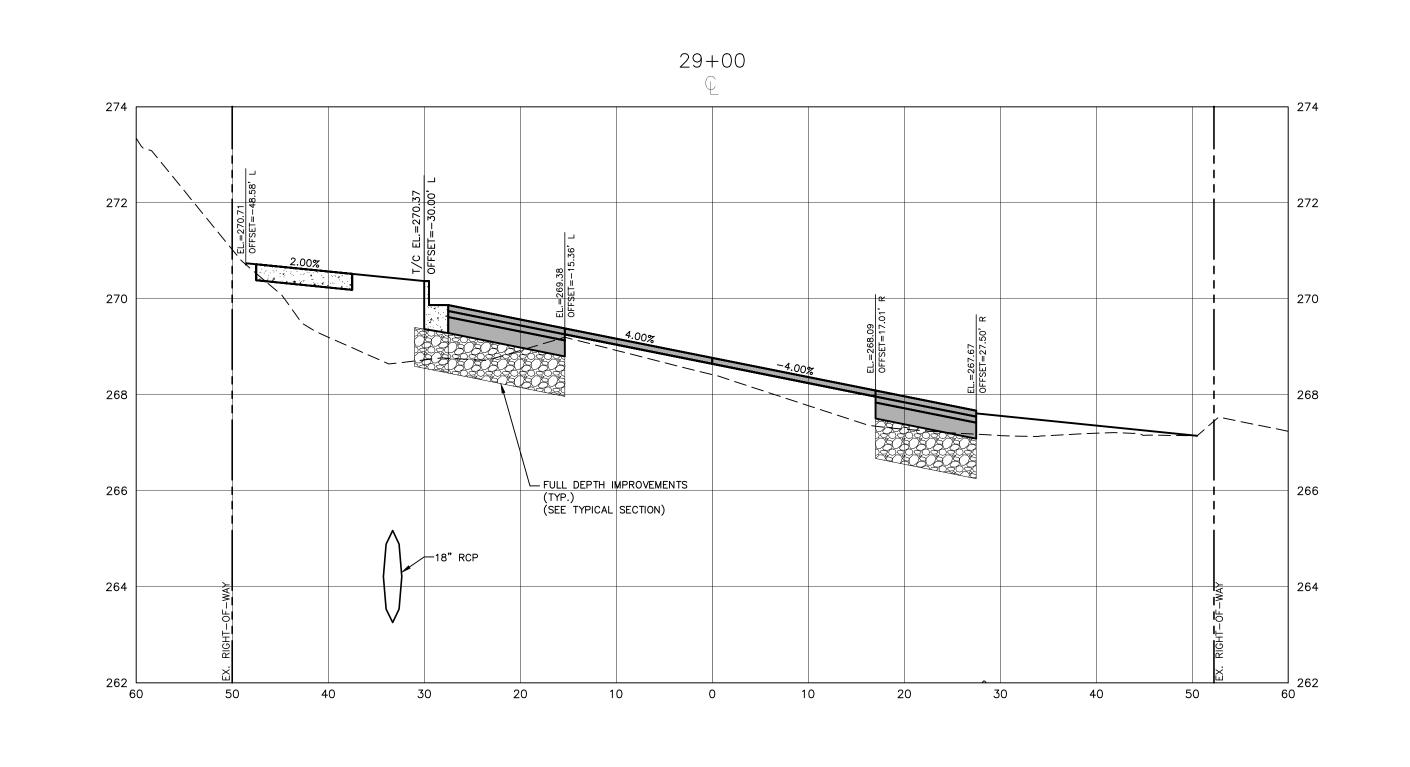
STREET IMPROVEMENTS

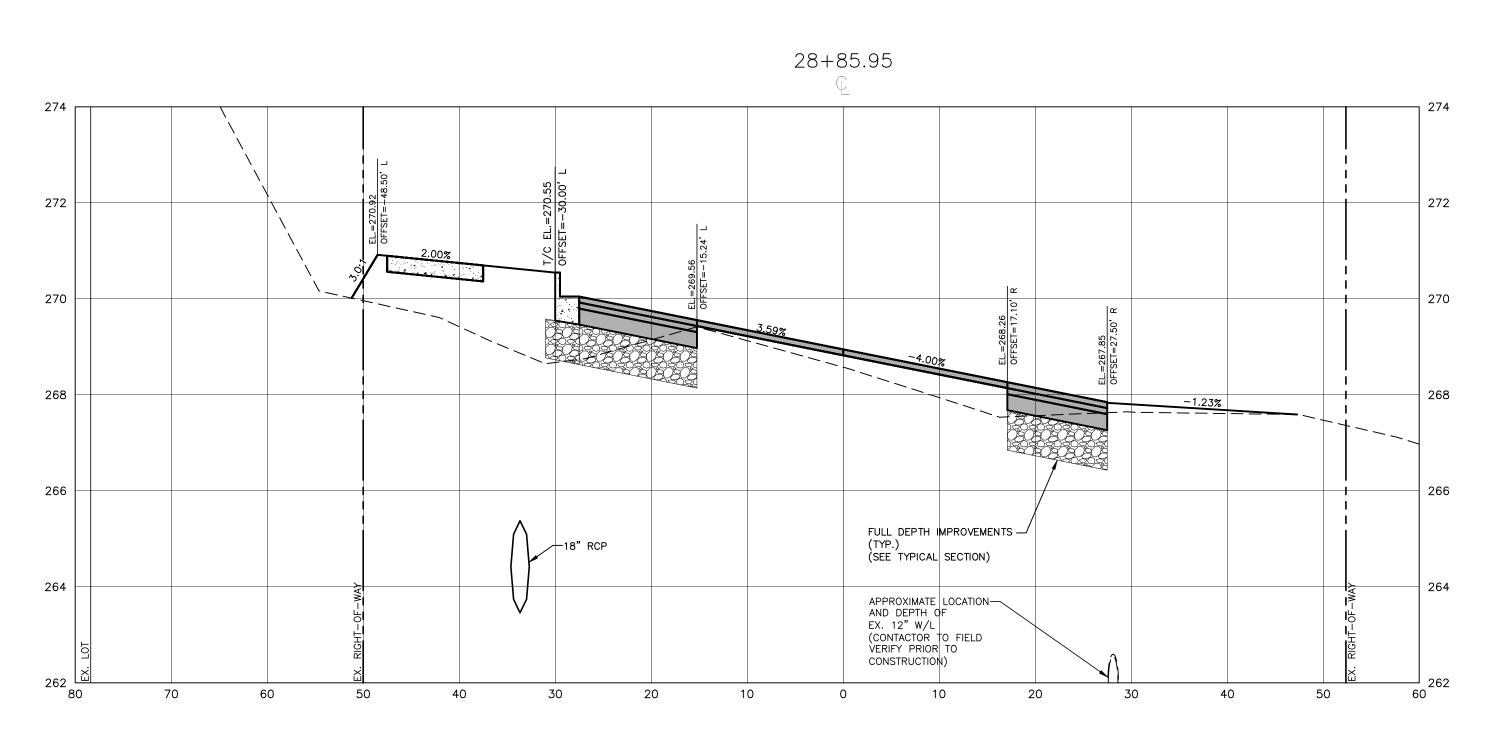
CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

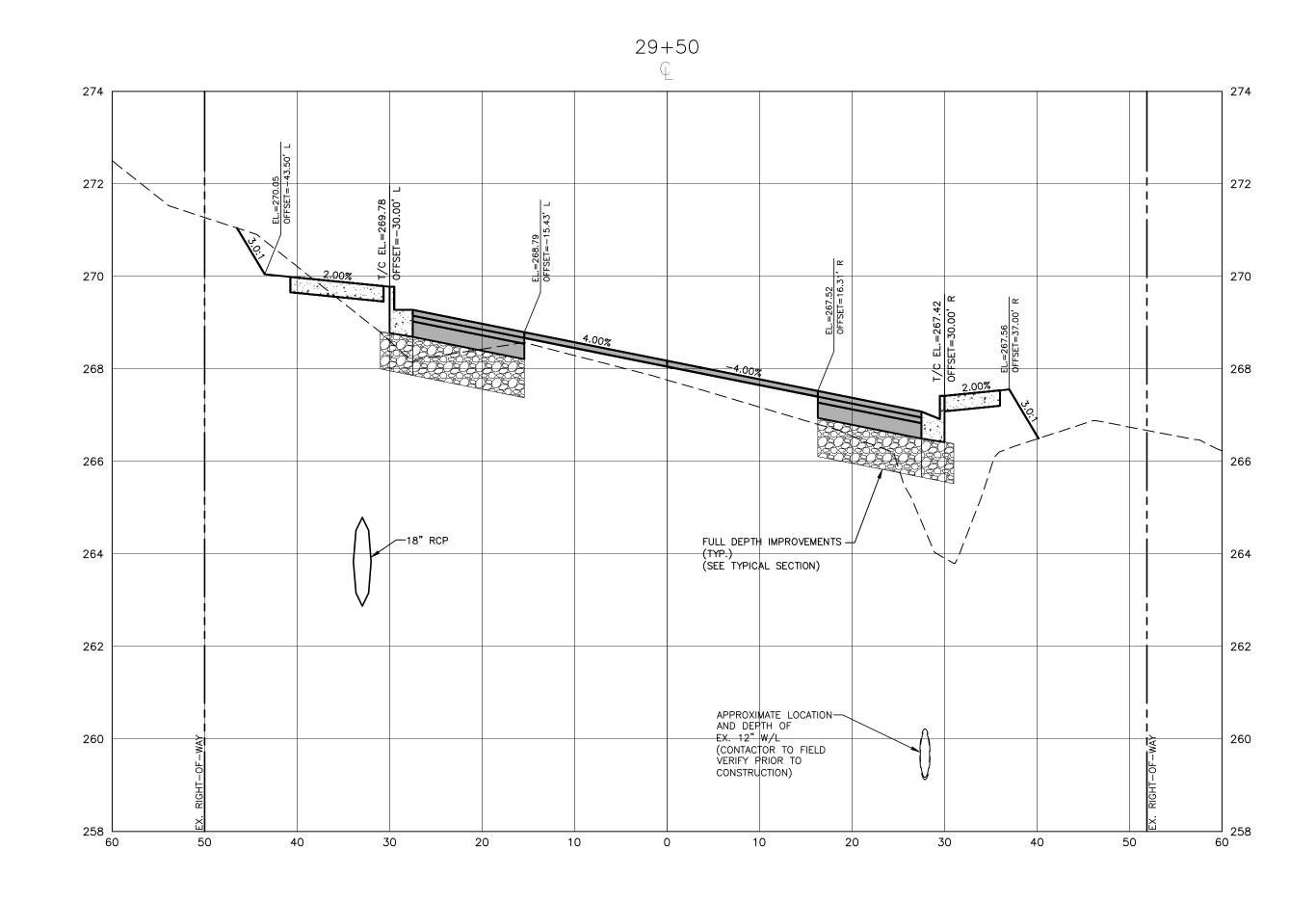
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S. FRANKLIN, STA. 27+00 THRU STA. 28+50







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WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT

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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

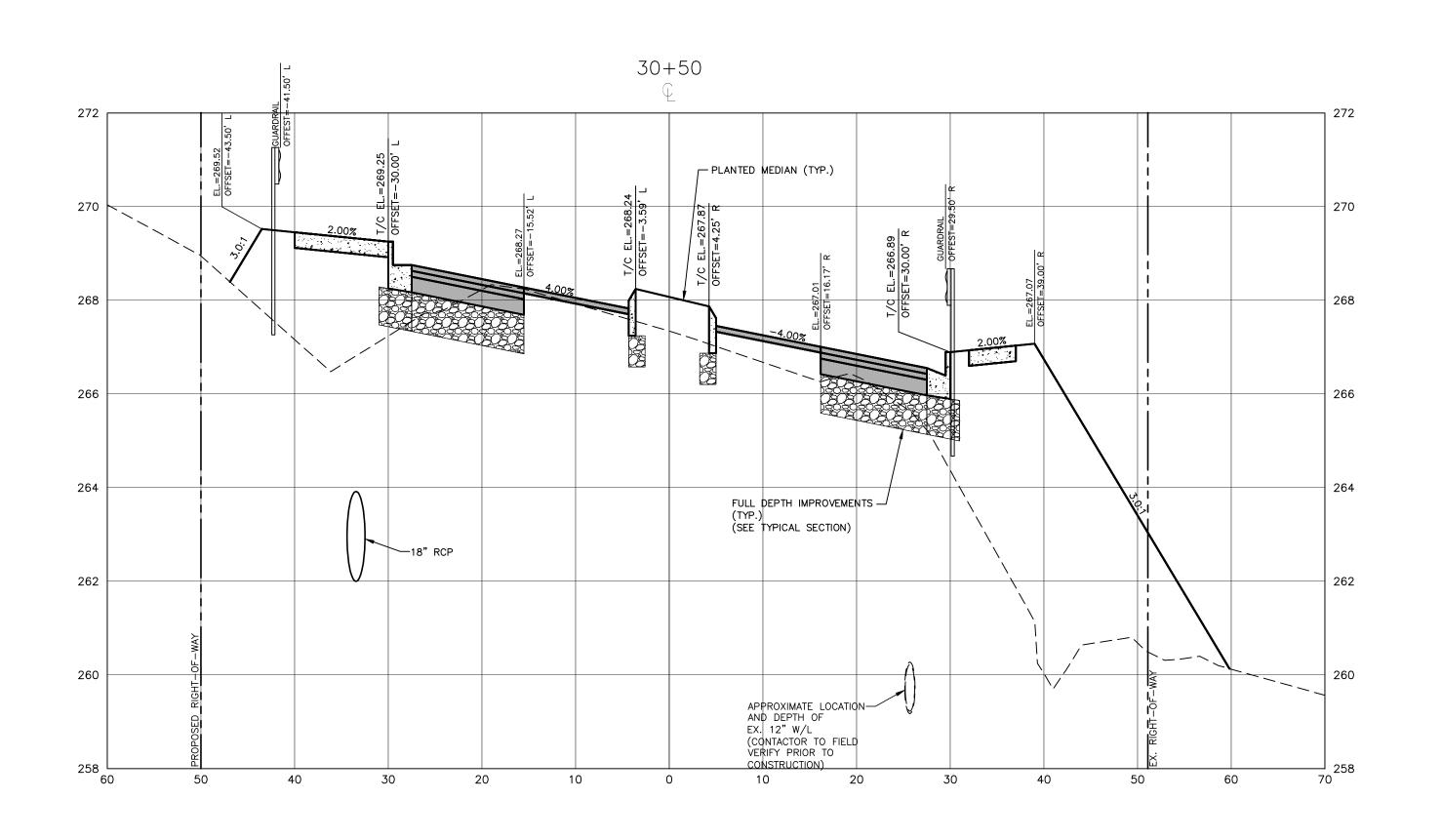
AND THE CITY OF RALEIGH (WHERE APPLICABLE)

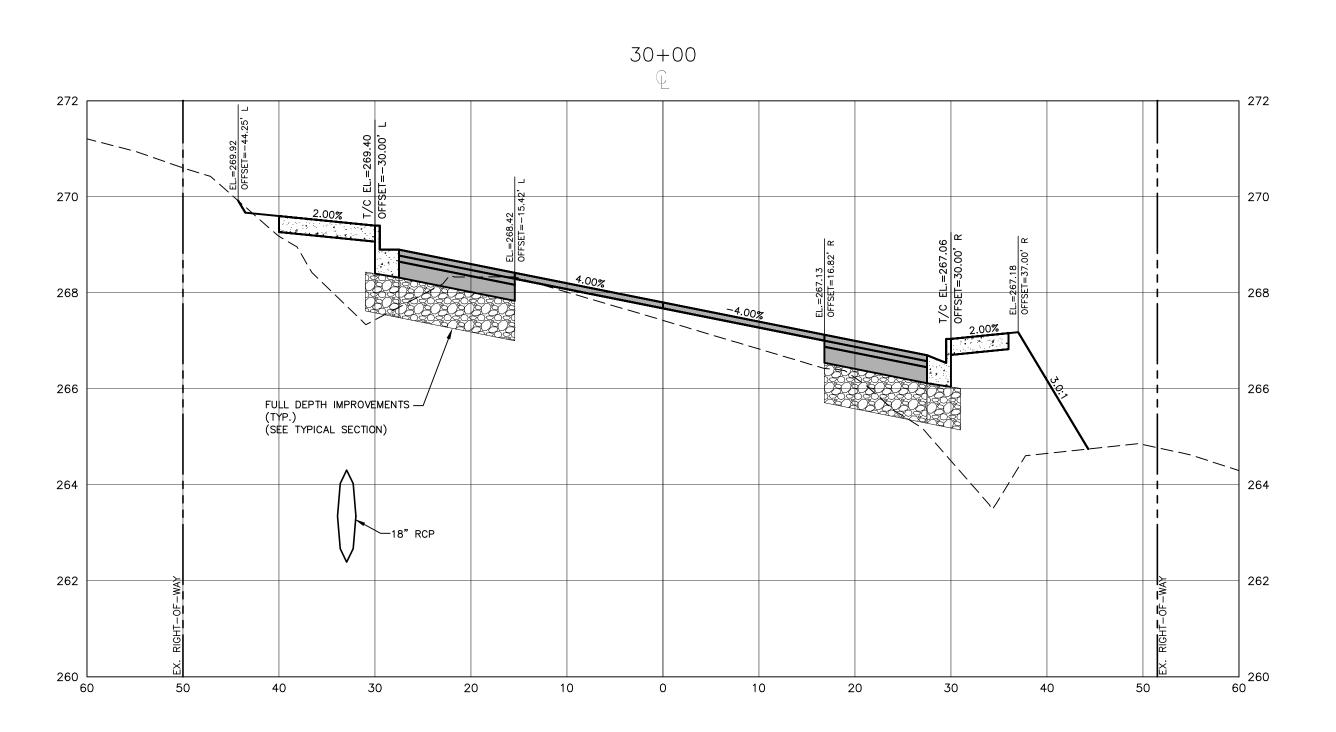
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PROJECT NO. RAP-19000 FILENAME

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CROSS SECTIONS S. FRANKLIN, STA. 28+85.95 THRU STA. 29+50





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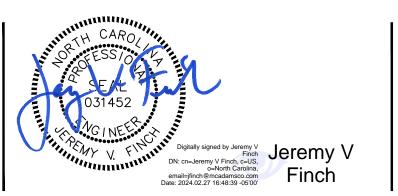
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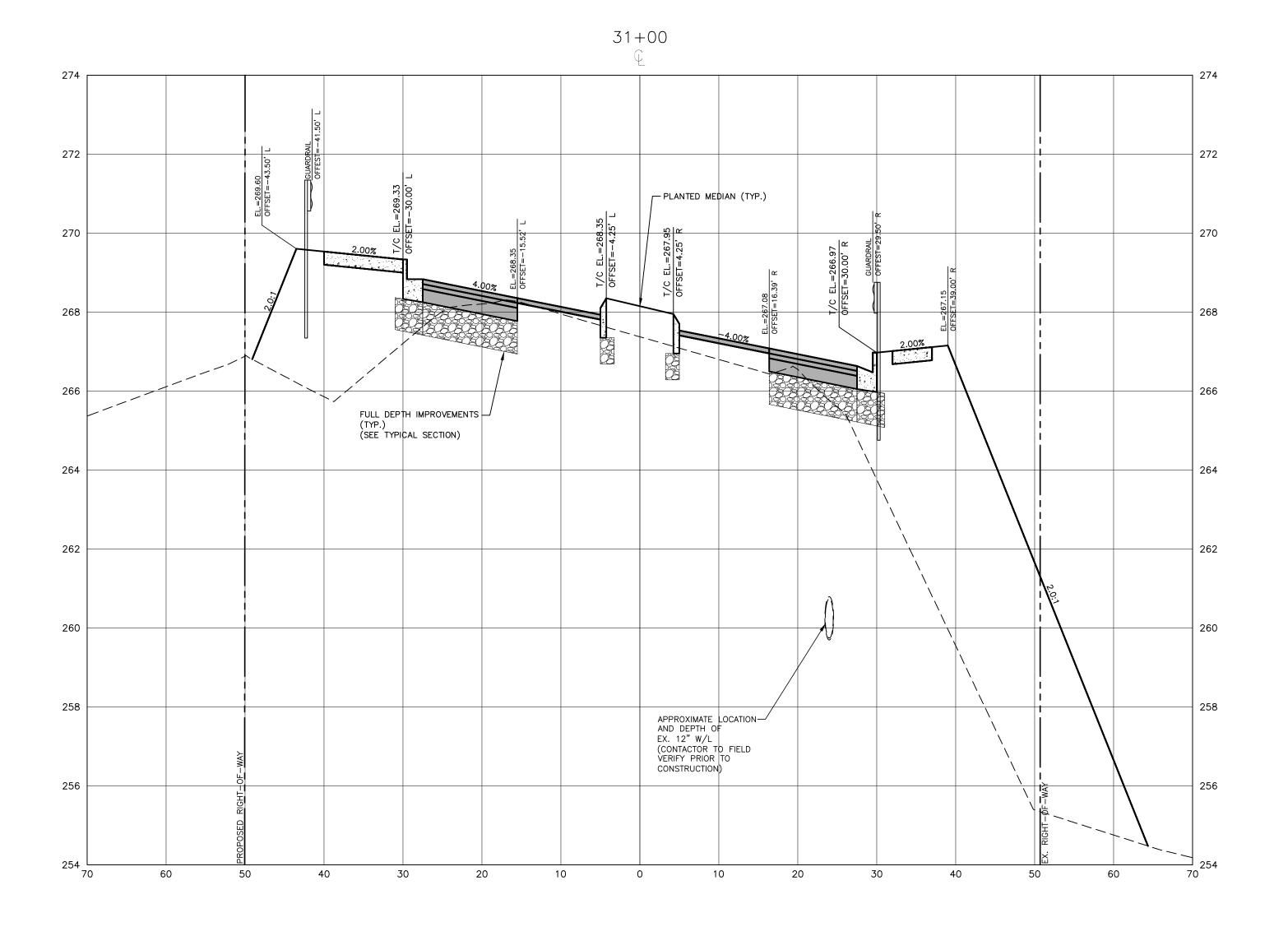
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CLIENT TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy

PHONE: 919. 435. 9510

REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

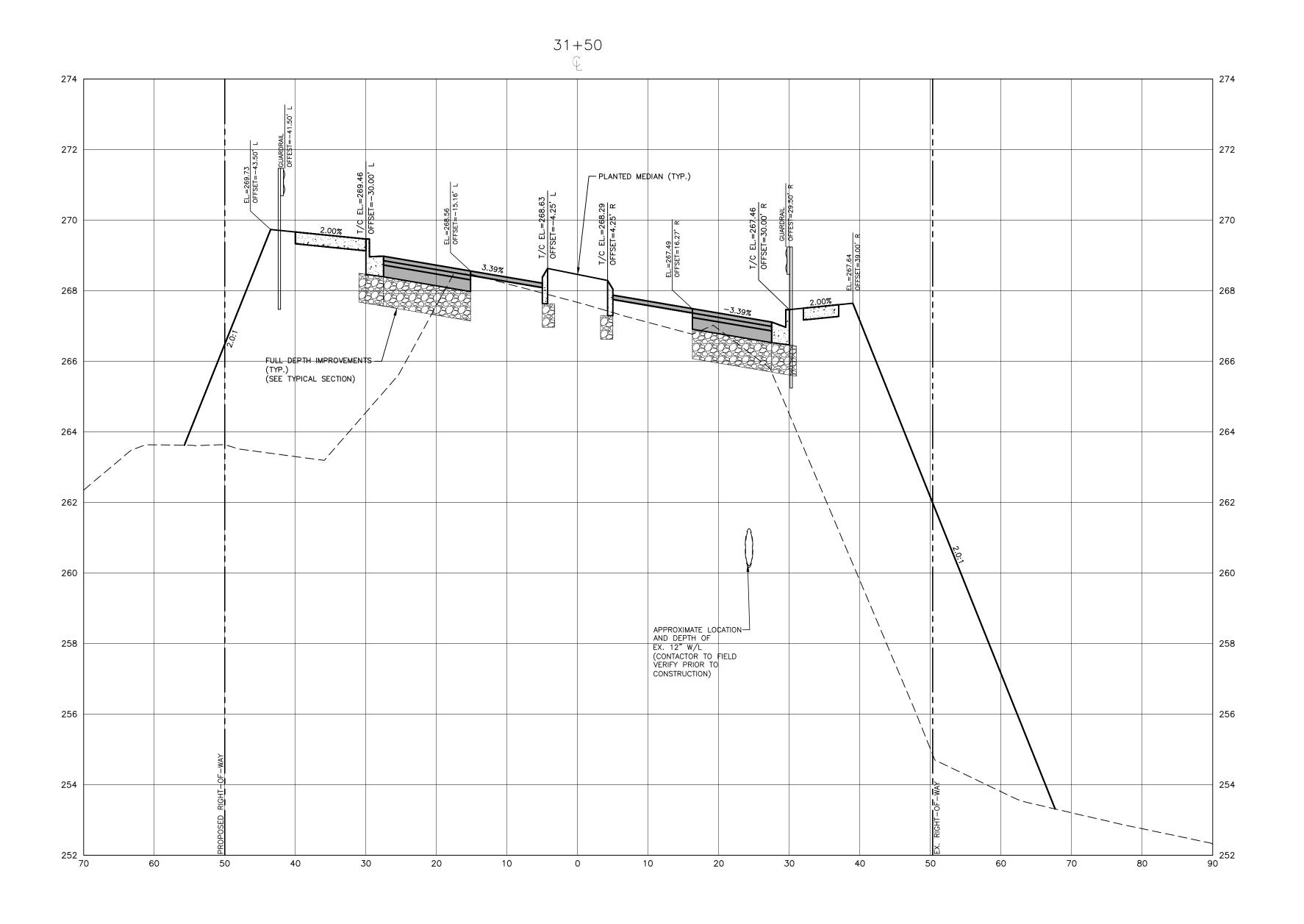
CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 RAP19000-SF-XS1 FILENAME

CHECKED BY DRAWN BY SCALE 1"=10' H, 1"=2' V DATE 02. 23. 2024

CROSS SECTIONS S. FRANKLIN, STA. 31+00



These plans have been electronically approved for construction by the Town of Wake Forest
Public Works and Engineering Department. This approval may not be edited once issued.

smeyer
04/25/2024

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Public Works/Engineering

ALL CONSTRUCTION SHALL BE IN ACCORDANCE
WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT
AND THE CITY OF RALEIGH (WHERE APPLICABLE)
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

FINAL DRAWING - RELEASED FOR CONSTRUCTION



The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

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301 S. BROOKS STREET
WAKE FOREST, NC 27587-2901
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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000
FILENAME RAP19000-SF-XS1

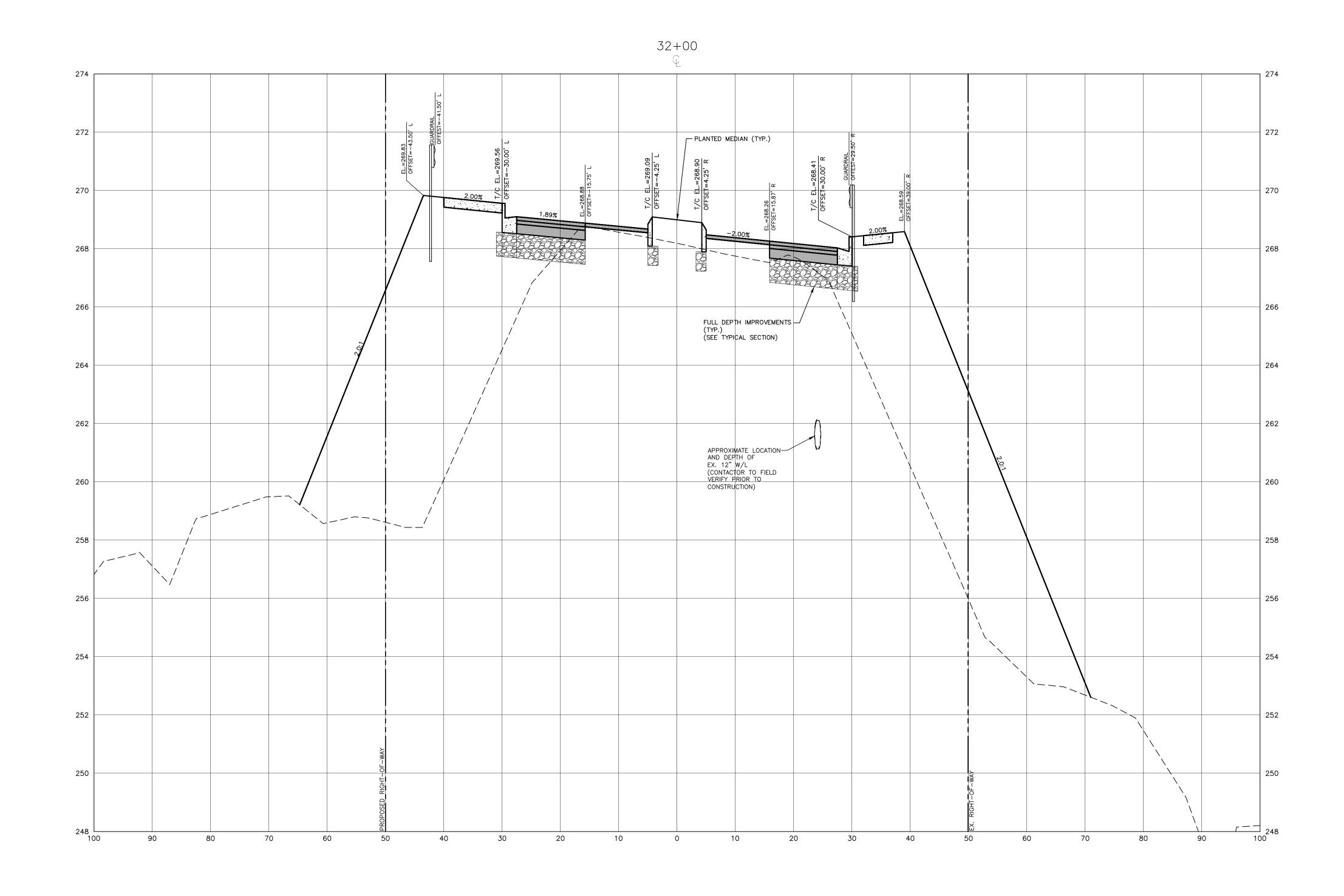
CHECKED BY DLP

DRAWN BY RJF

SCALE 1"=10' H, 1"=2' V

DATE 02. 23. 2024

CROSS SECTIONS S. FRANKLIN, STA. 31+50



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CONSTRUCTION DRAWINGS
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PROJECT NO. RAP-19000
FILENAME RAP19000-SF-XS1

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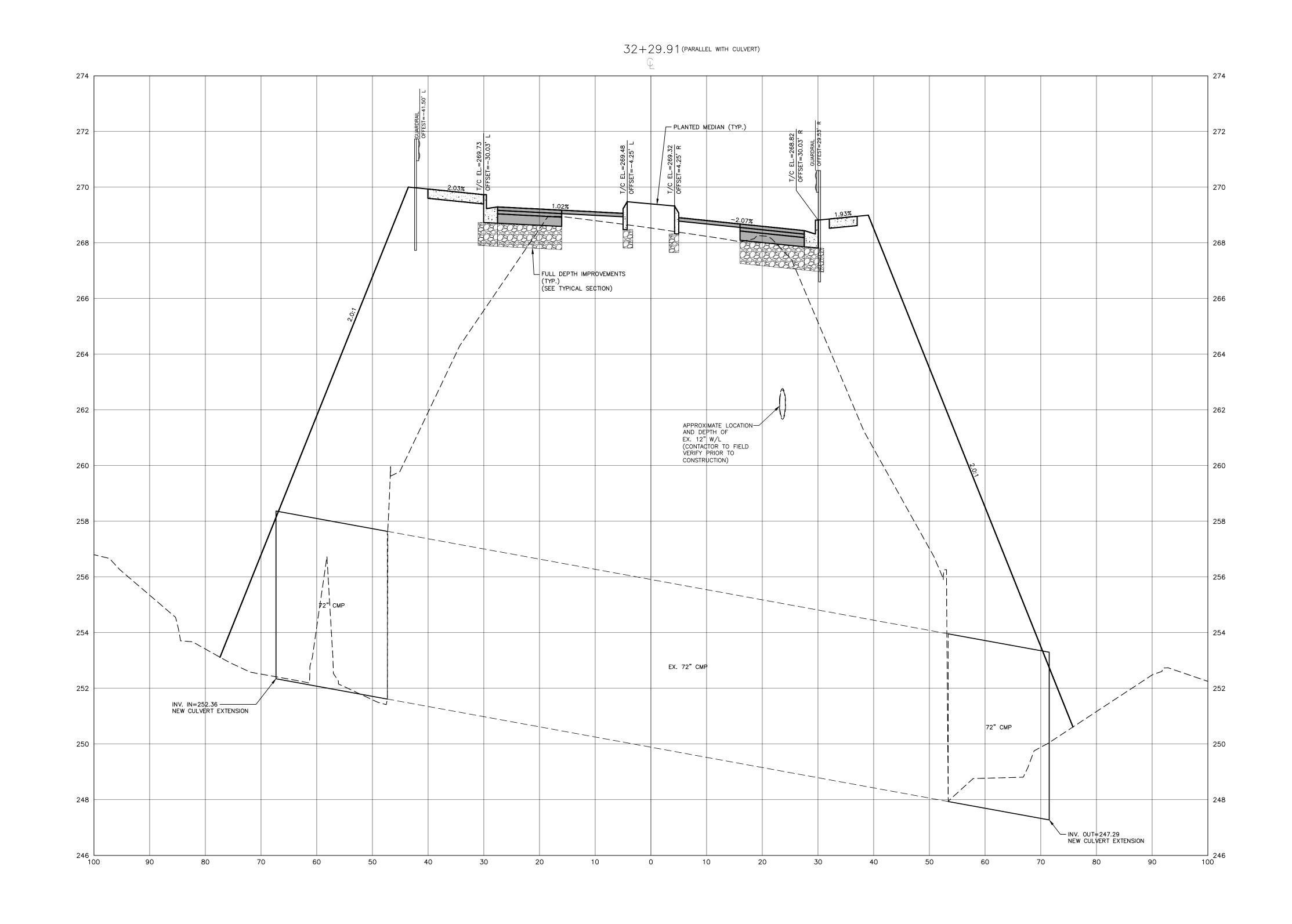
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CROSS SECTIONS S. FRANKLIN, STA. 32+00

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CLIENT TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy

PHONE: 919. 435. 9510

REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

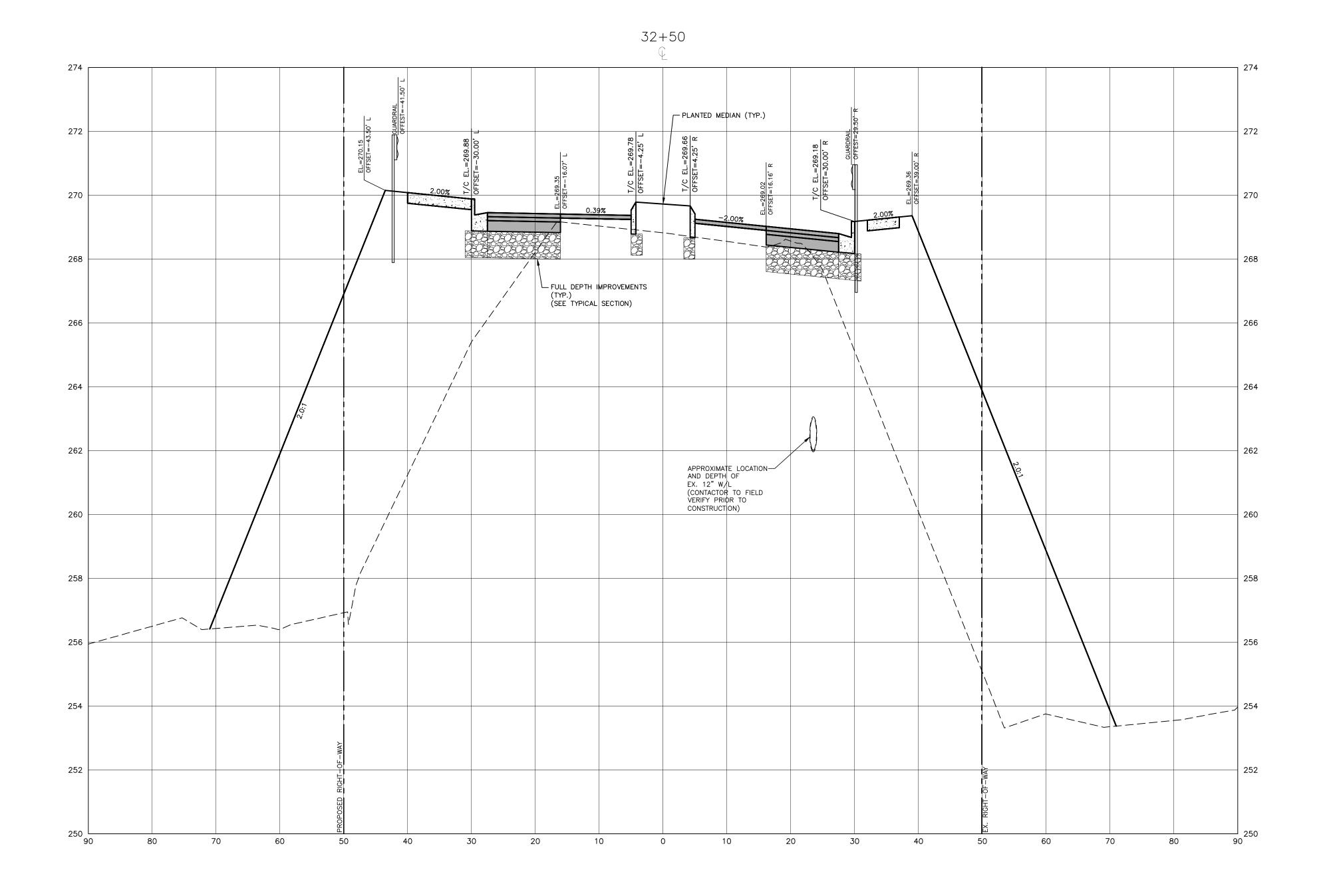
CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 RAP19000-SF-XS1 FILENAME

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CROSS SECTIONS S. FRANKLIN, STA 32+29.91



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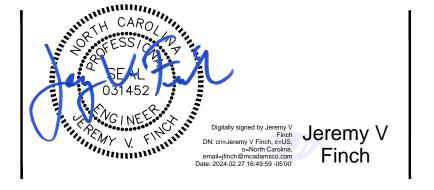
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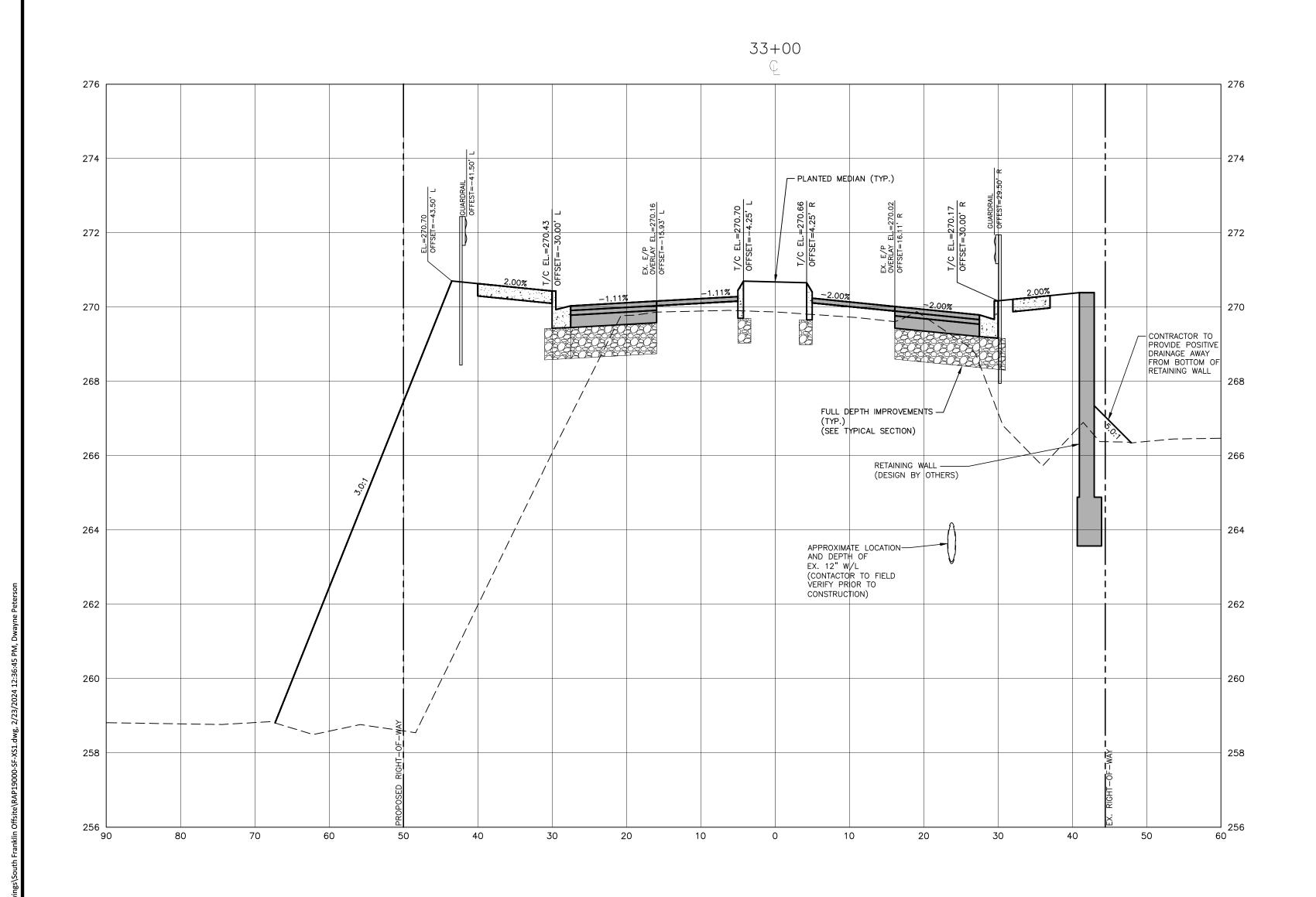
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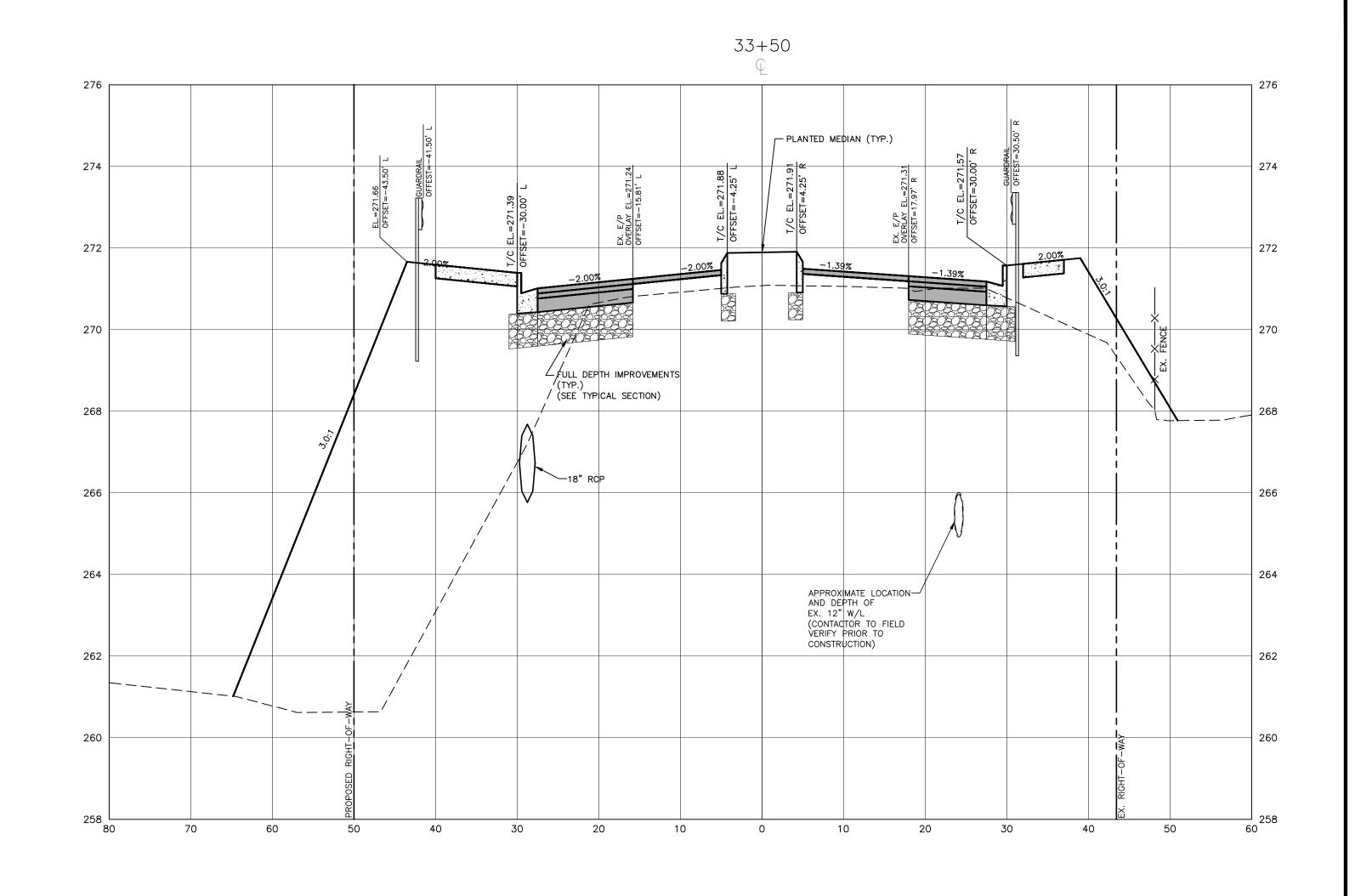
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CROSS SECTIONS S. FRANKLIN, STA. 32+50





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WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT

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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

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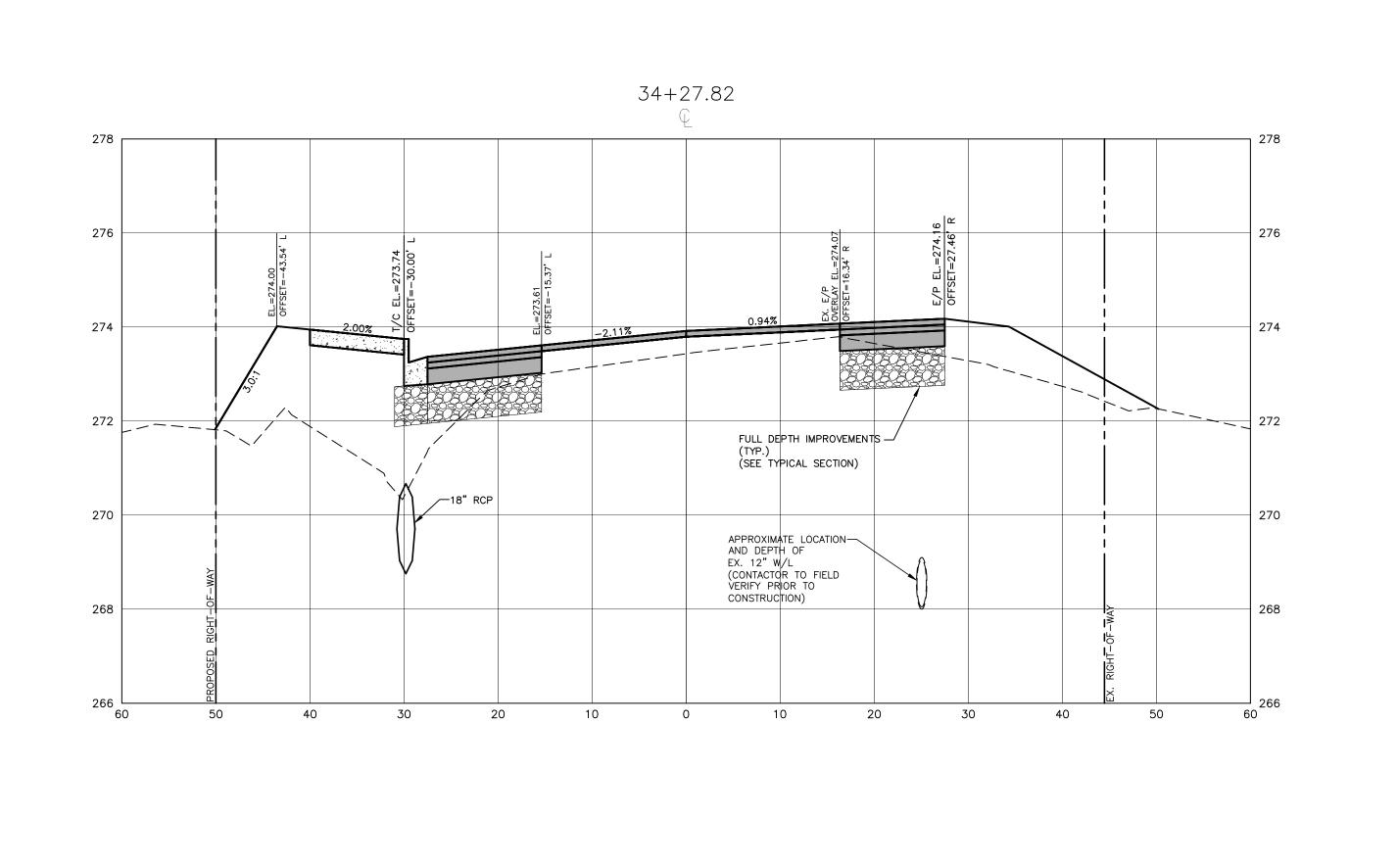
ALL CONSTRUCTION SHALL BE IN ACCORDANCE

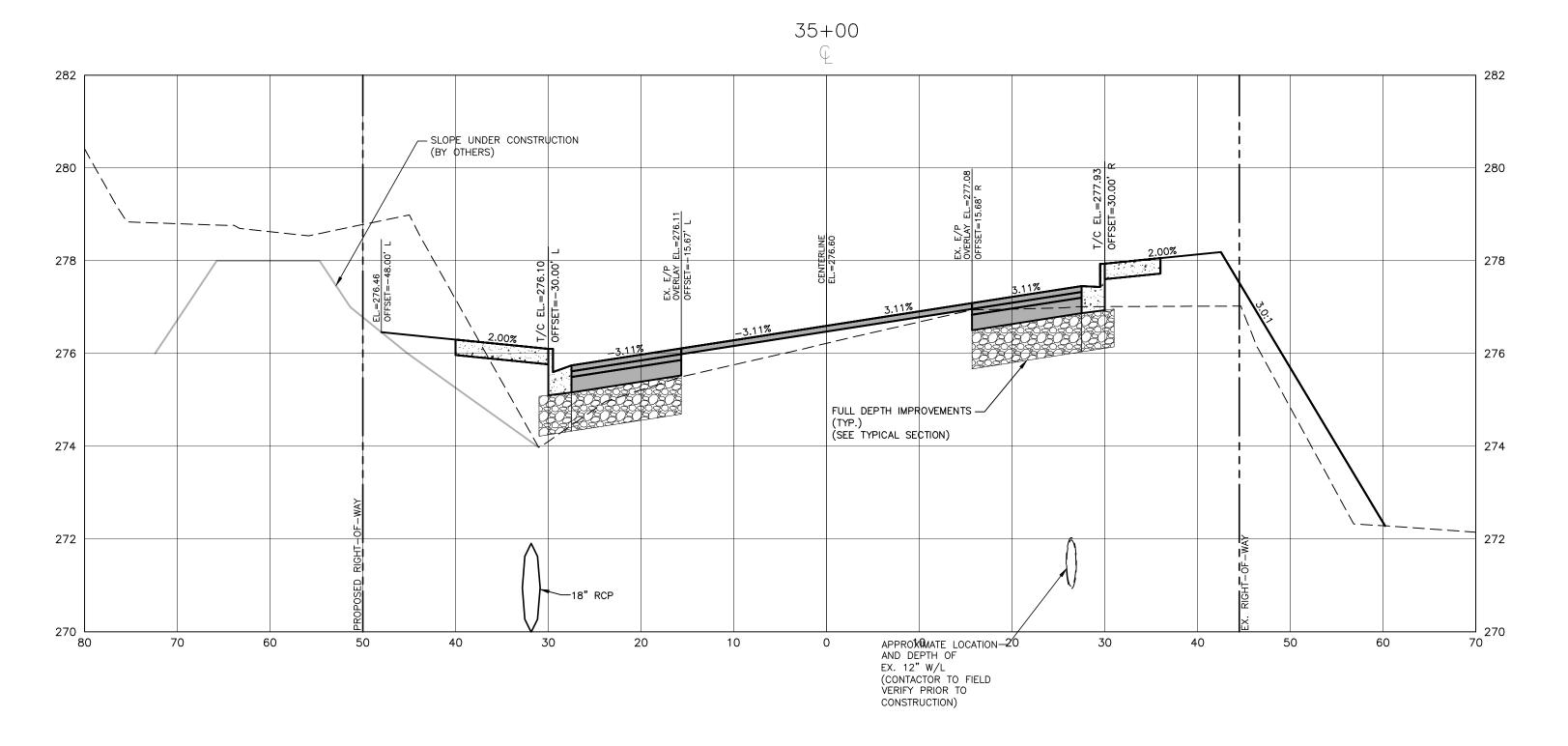
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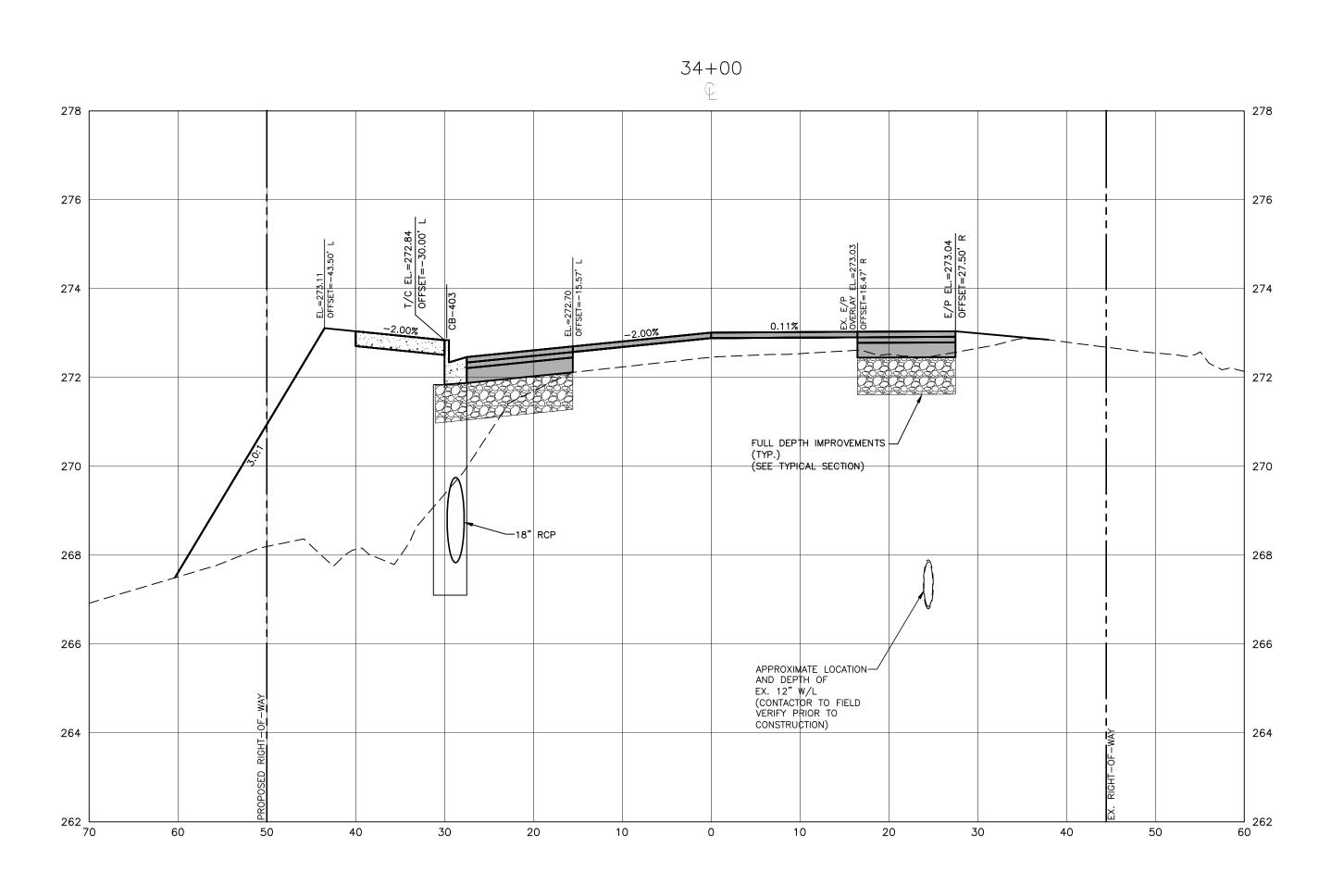
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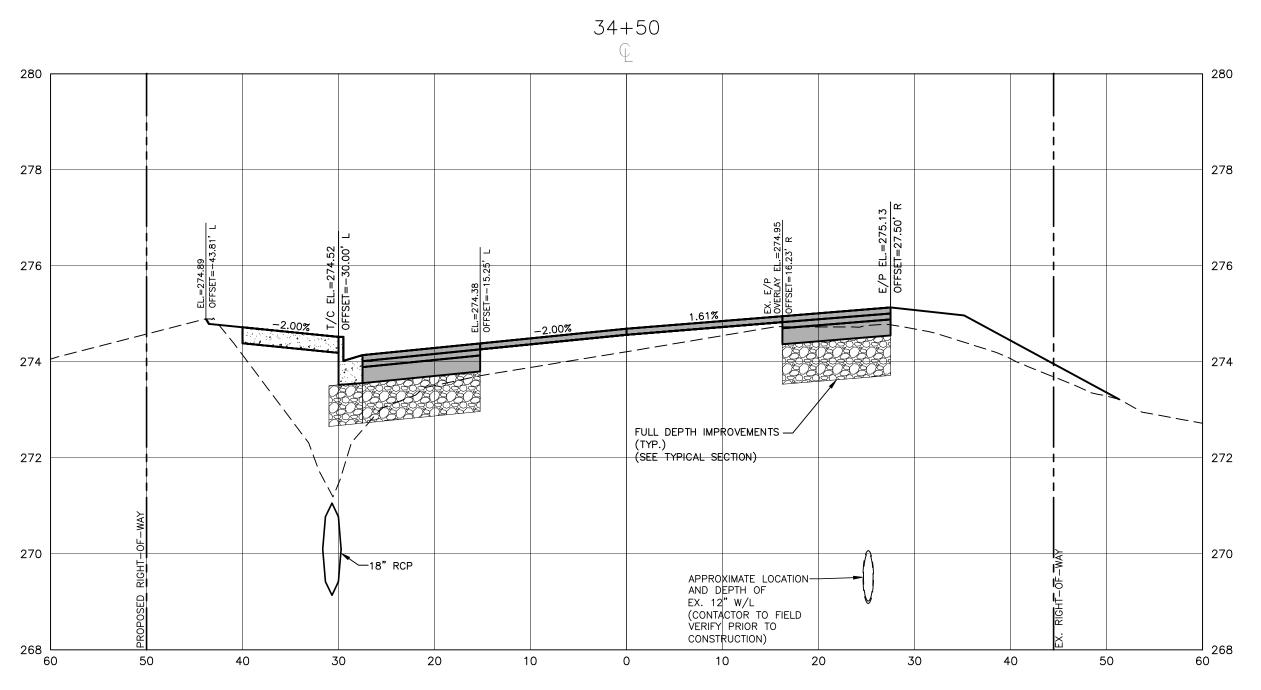
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CROSS SECTIONS S. FRANKLIN, STA. 33+00 THRU STA. 33+50









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AND THE CITY OF RALEIGH (WHERE APPLICABLE)
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

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04/25/2024

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TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

CLIENT

REVISIONS
NO. DATE

1
2
3



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000

FILENAME RAP19000-SF-XS1

CHECKED BY DLP

DRAWN BY RJF

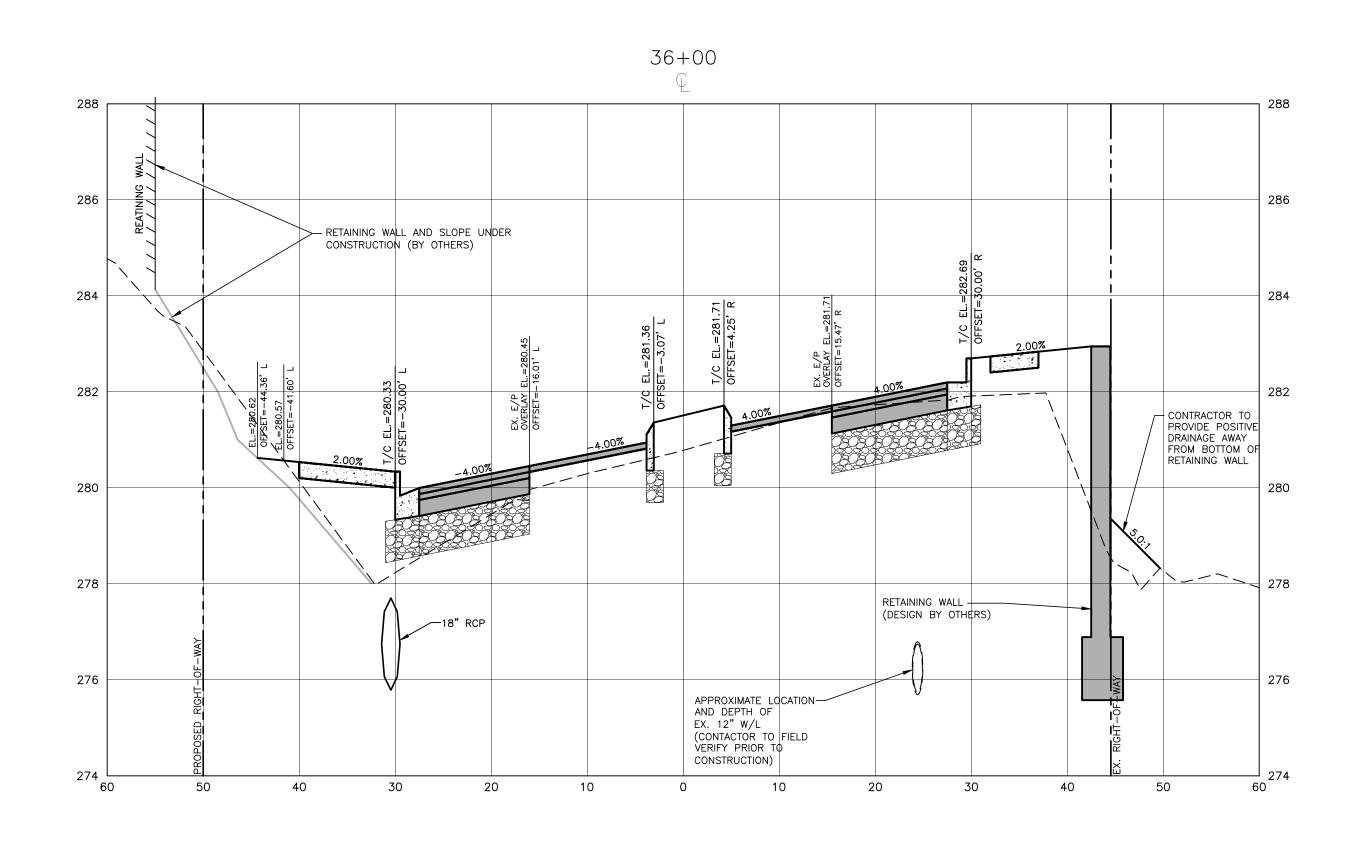
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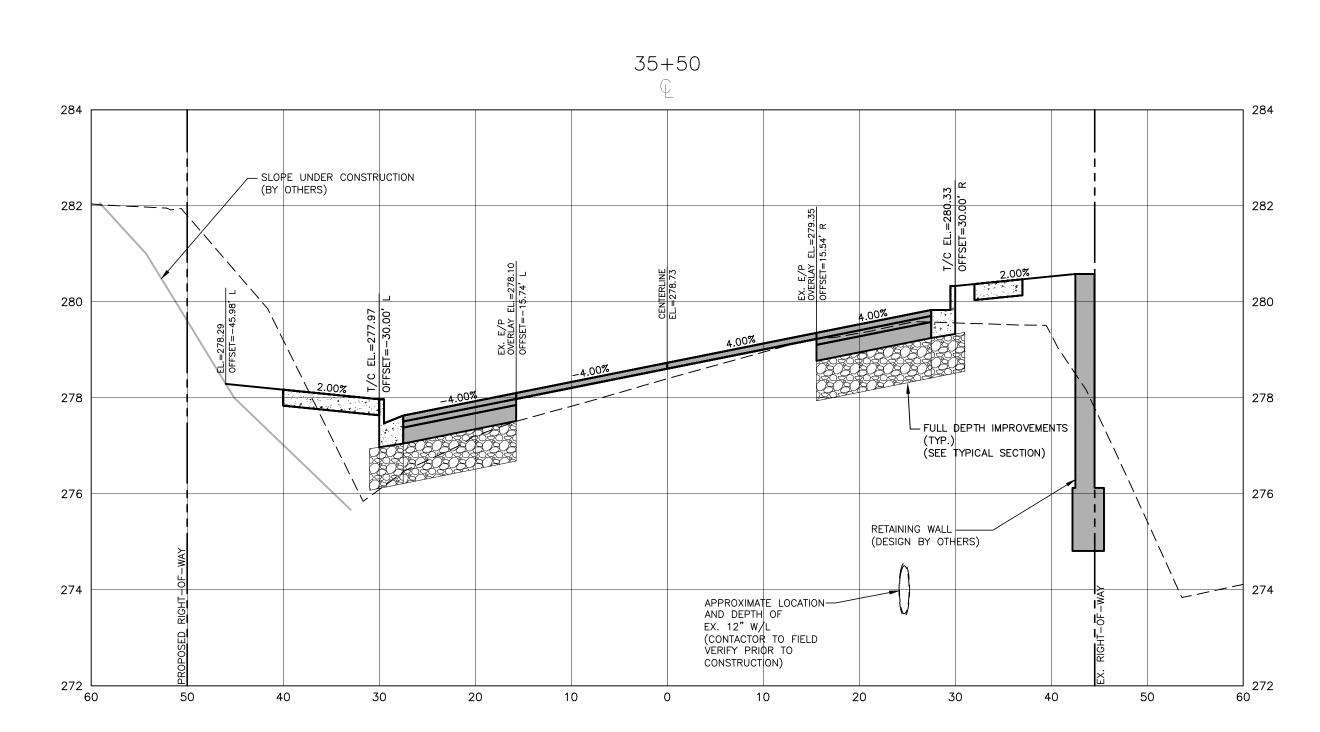
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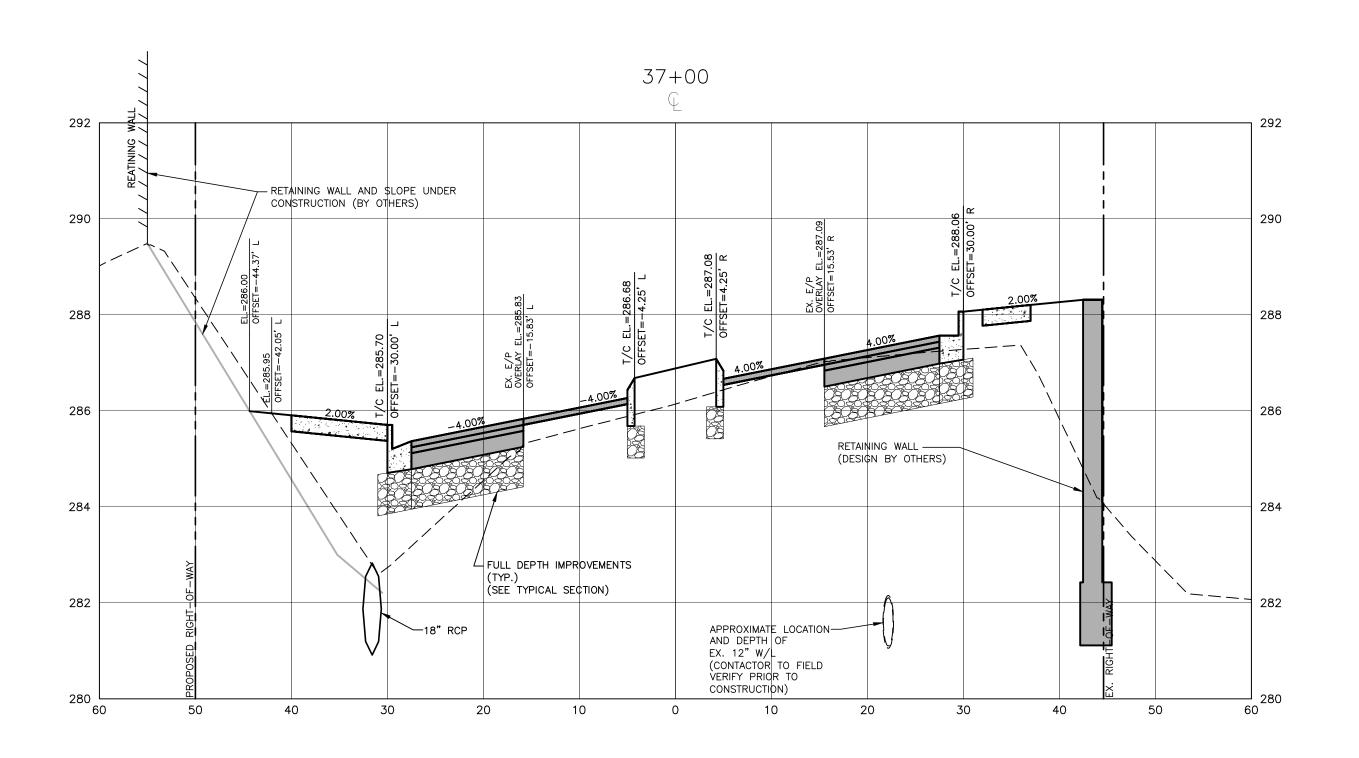
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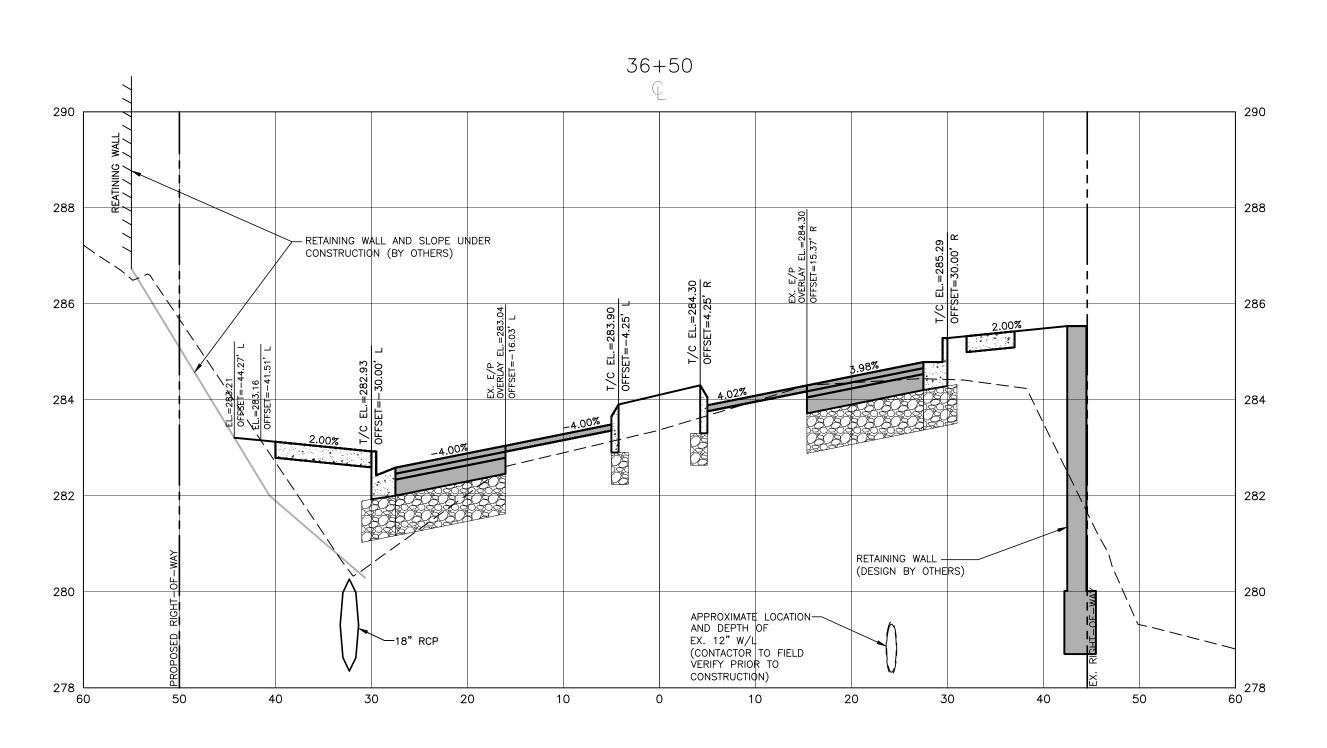
02. 23. 2024

CROSS SECTIONS
S. FRANKLIN, STA. 34+00 THRU STA. 35+00









ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF WAKE

ALL CONSTRUCTATION SHALL BIE ON TACCORDANI GEAD 83
WITH THE ROWSERE NATION NAME WAKE FOREST, NCDOT
AND THE CITY OF RALEIGH (WHERE APPLICABLE)
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

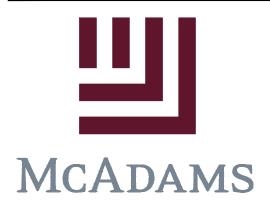
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WAKE FOREST, NC 27587-2901
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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000

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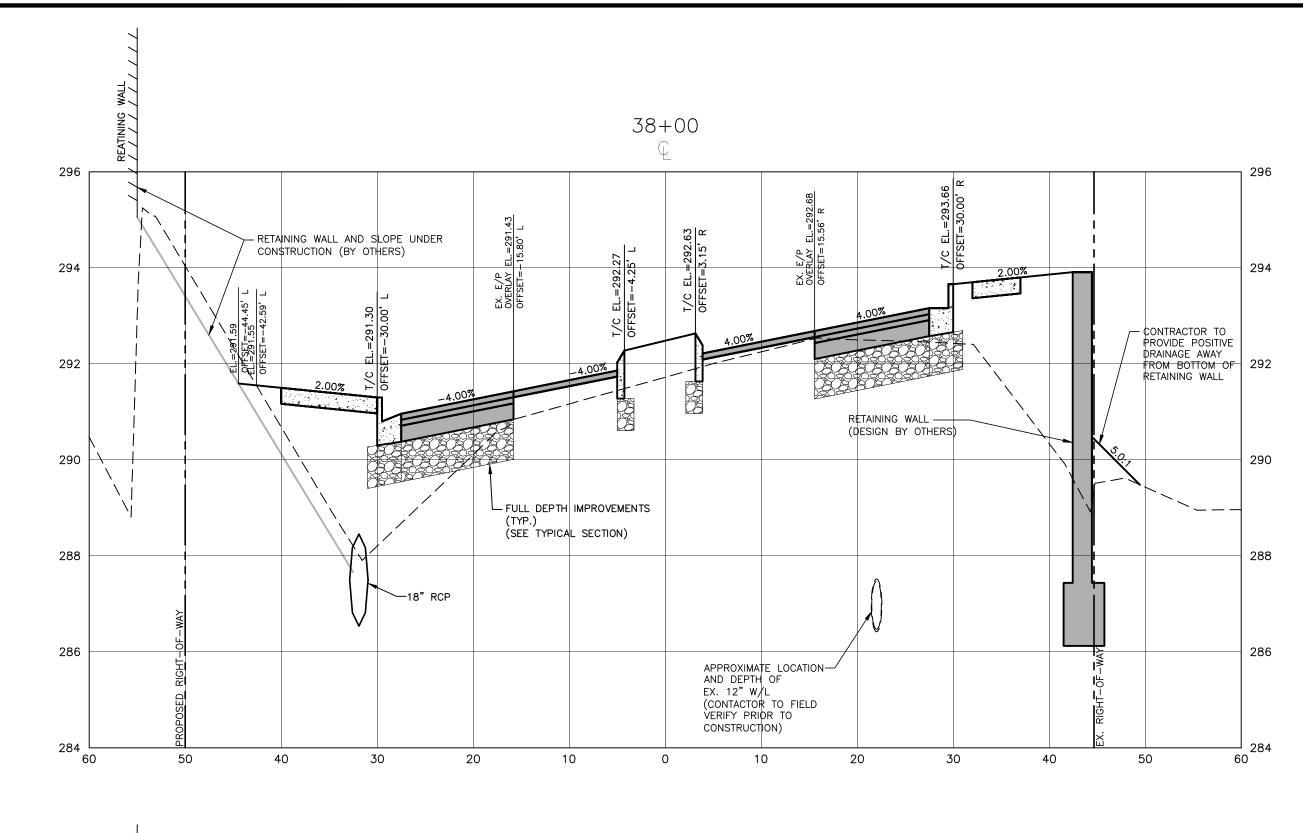
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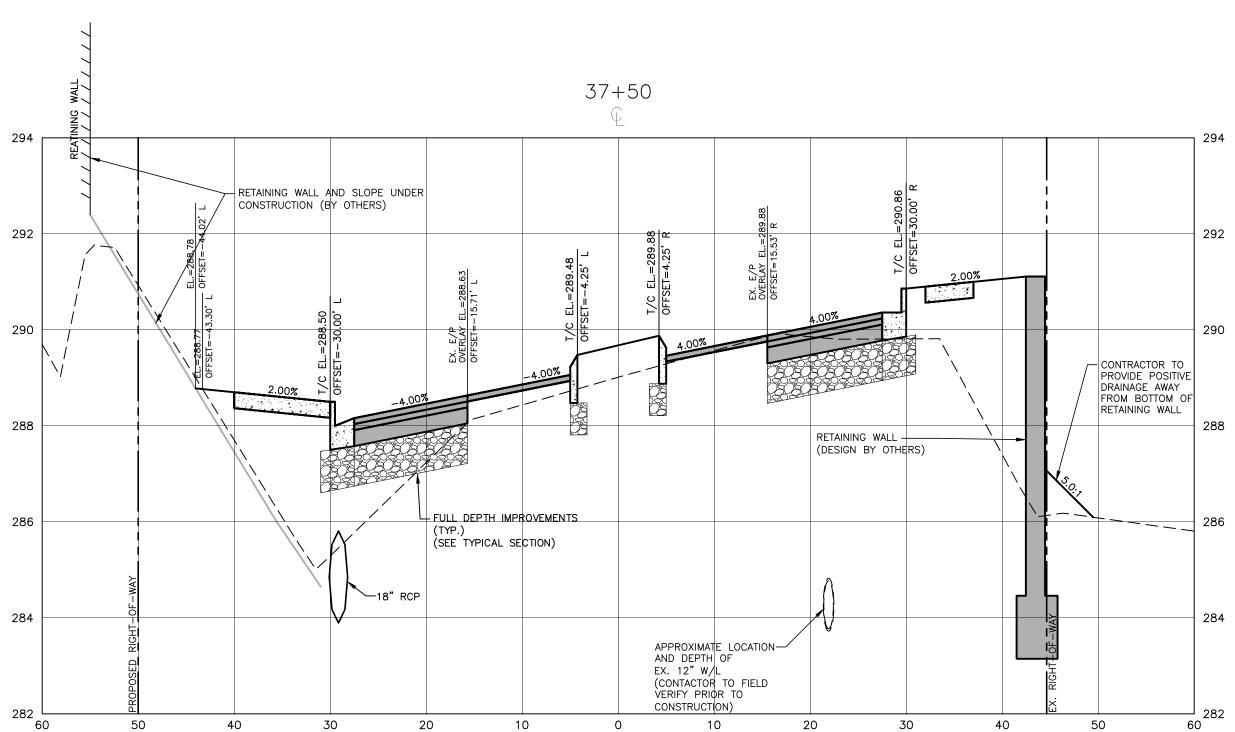
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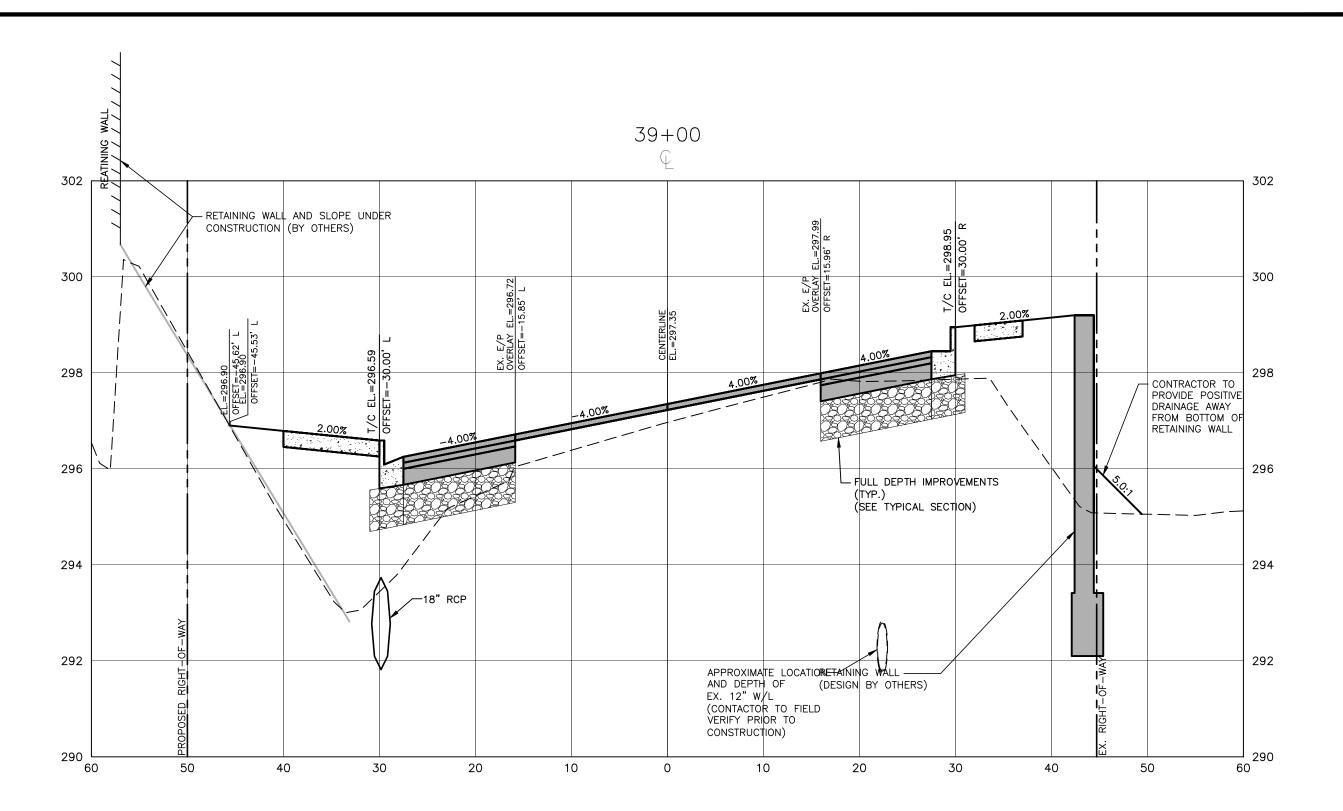
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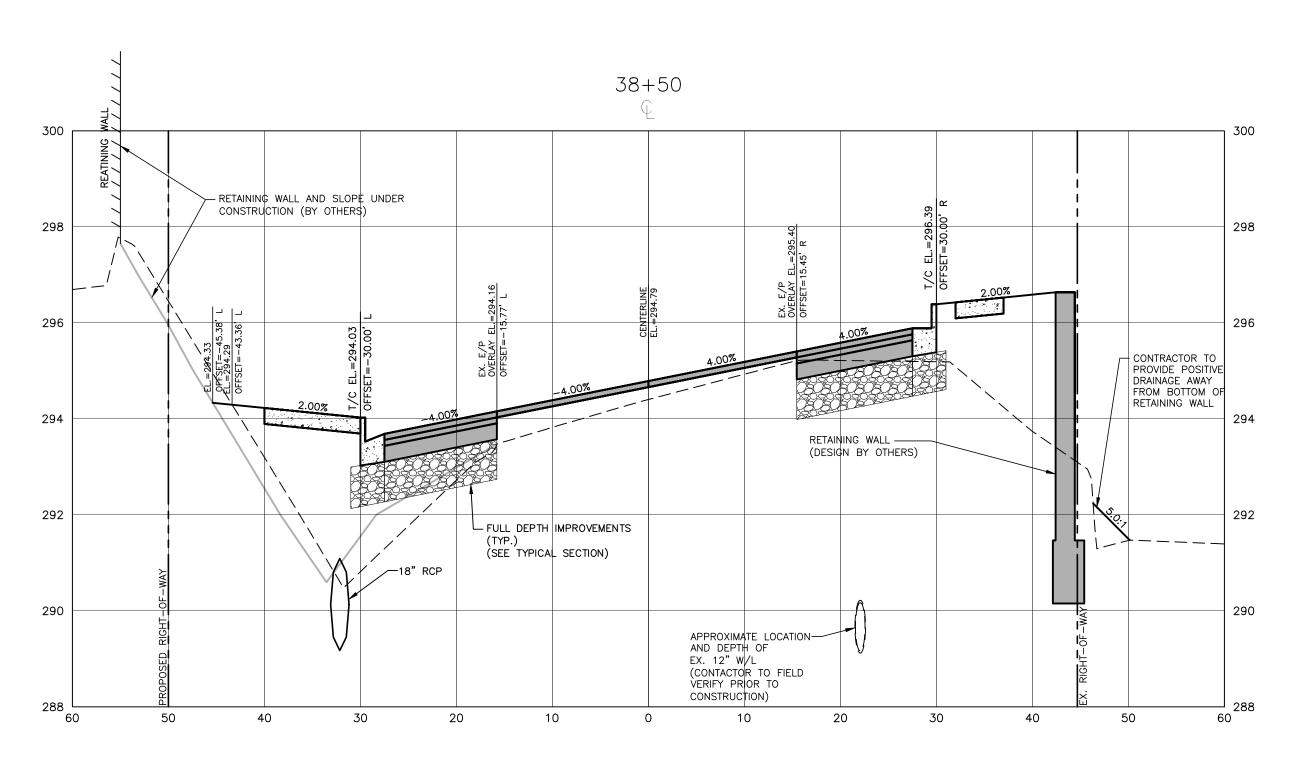
02. 23. 2024

CROSS SECTIONS
S. FRANKLIN, STA. 35+50 THRU STA. 37+00









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FINAL DRAWING - RELEASED FOR CONSTRUCTION

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CLIENT TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy

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REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS 0 SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 FILENAME

WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT

ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

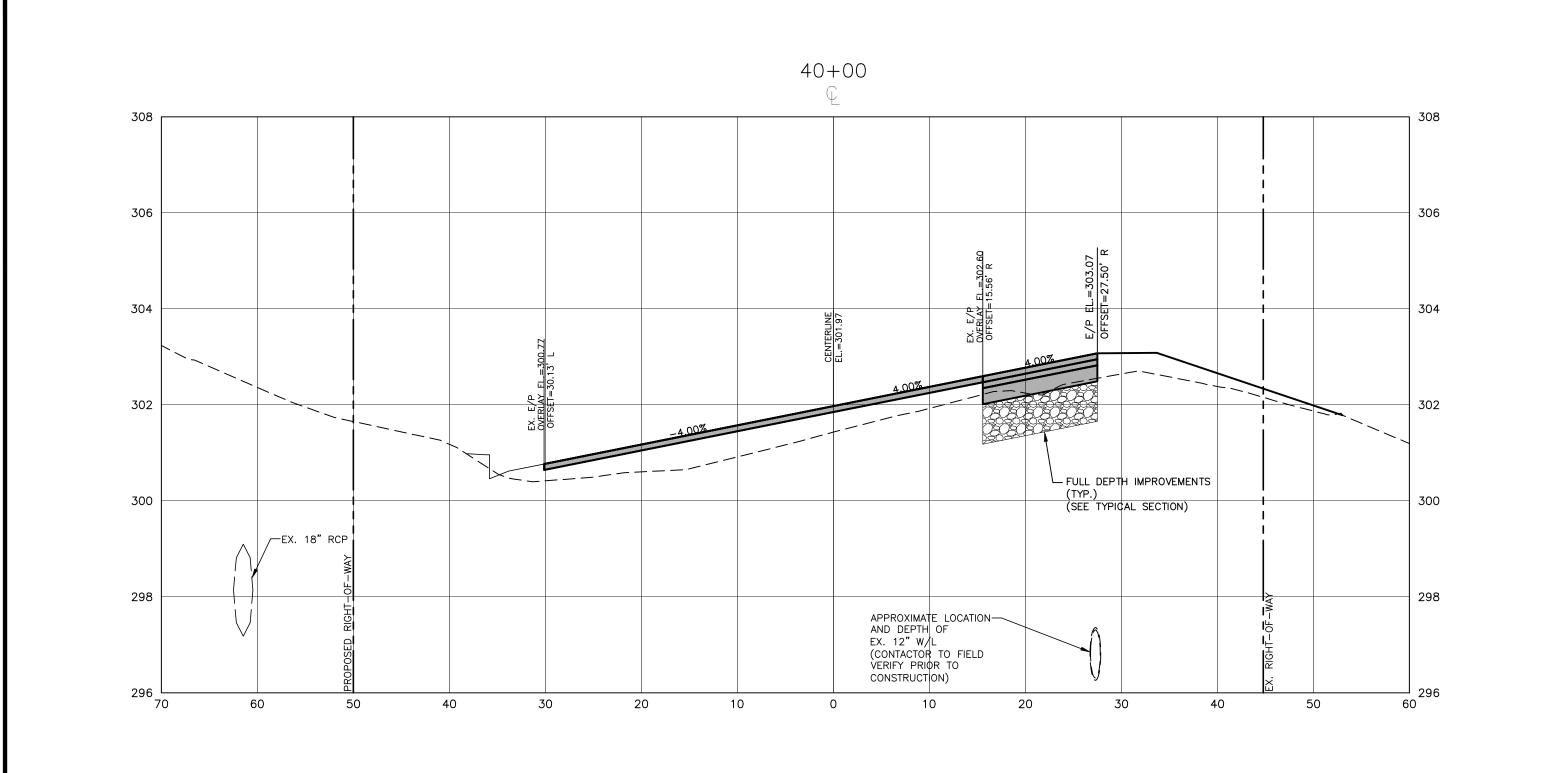
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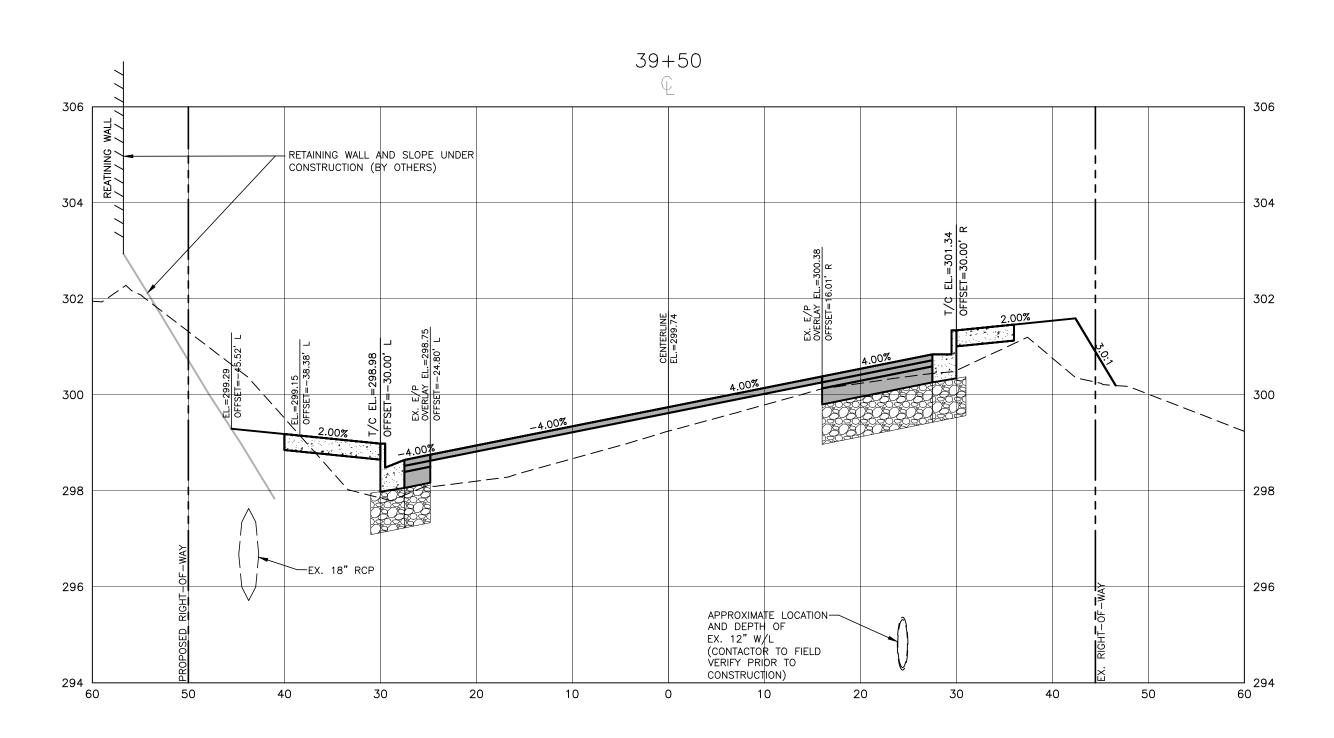
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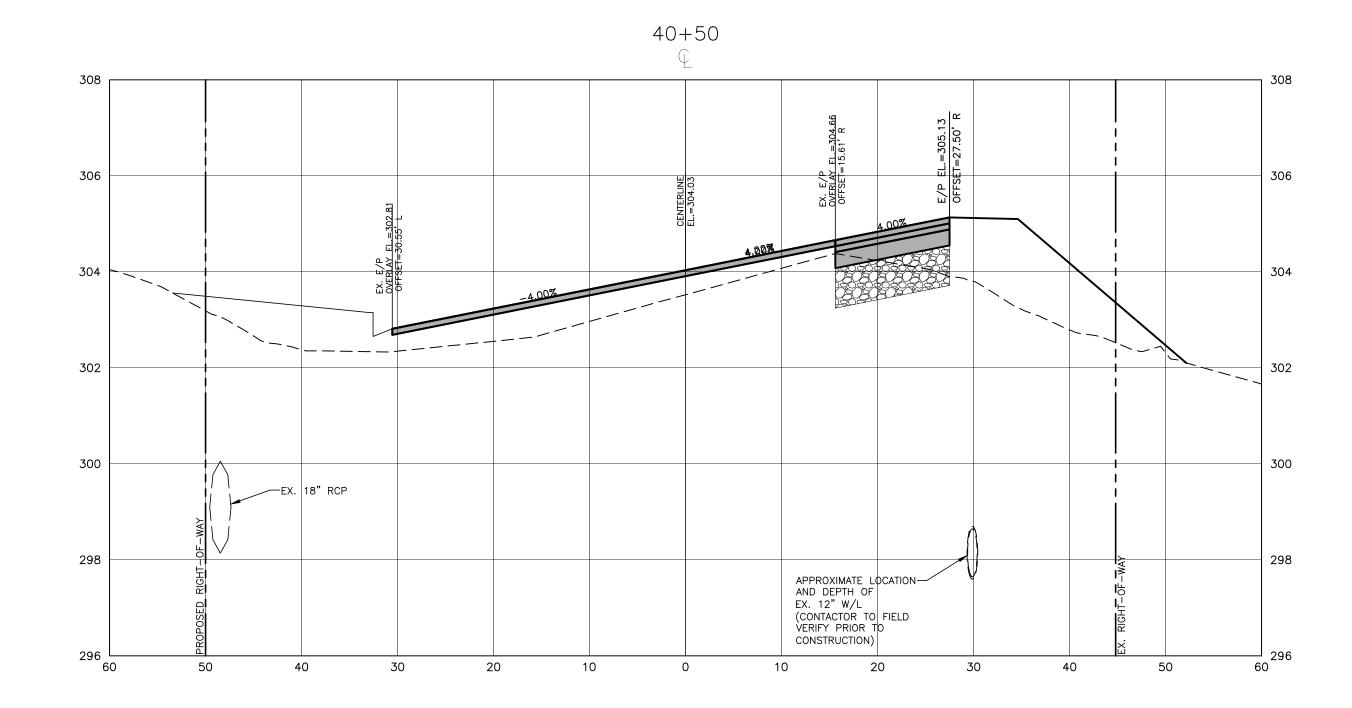
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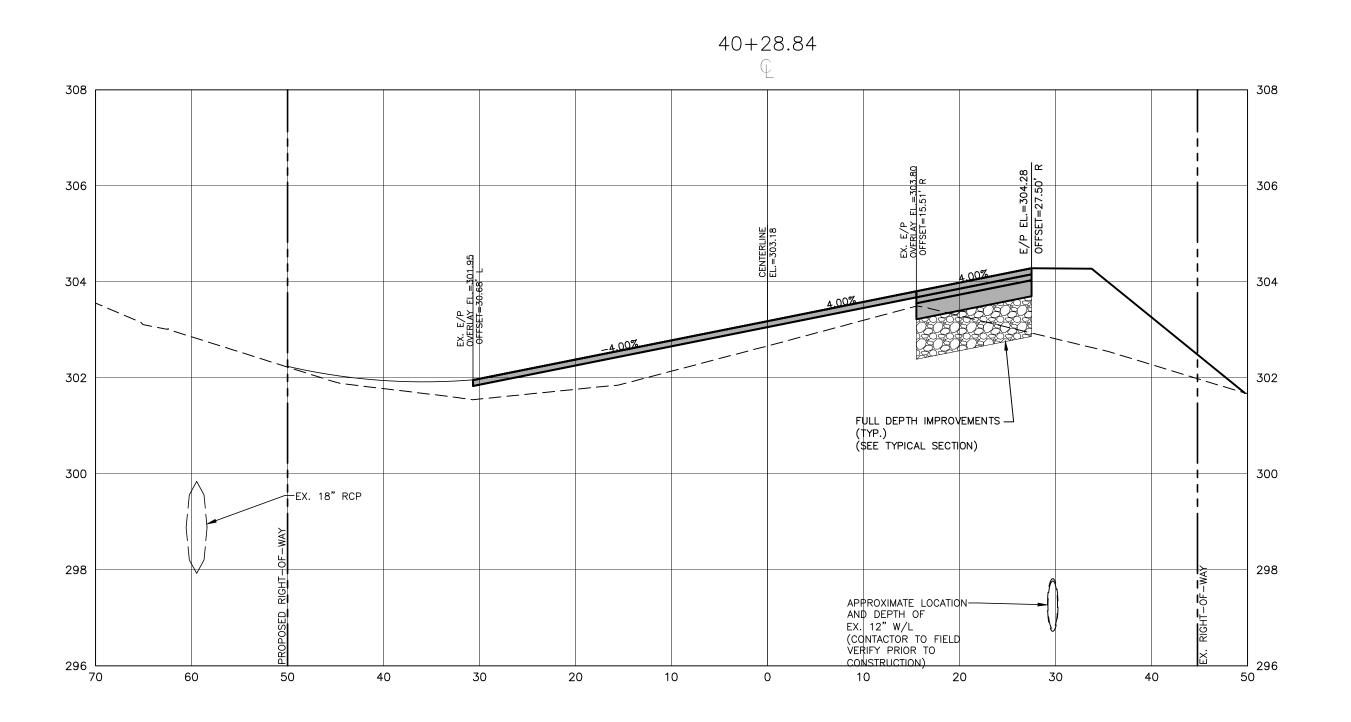
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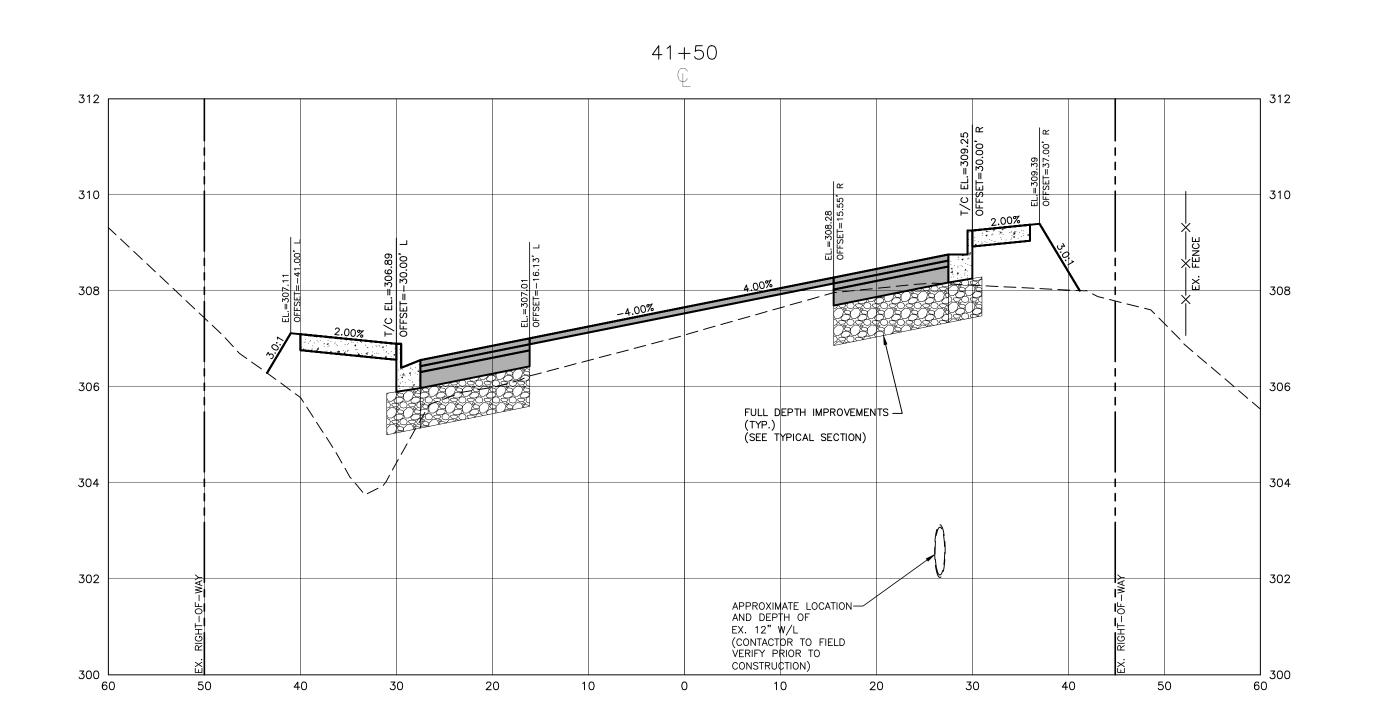
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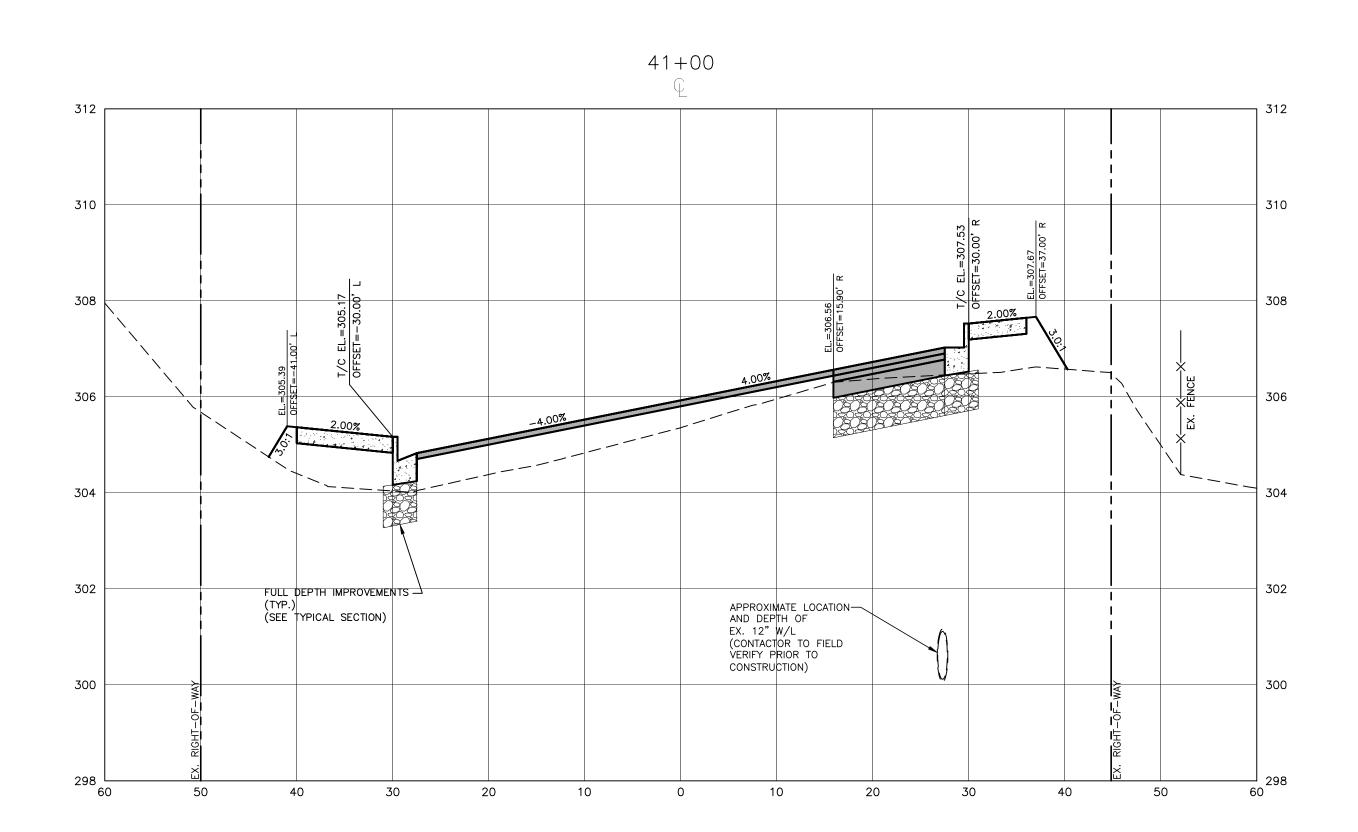
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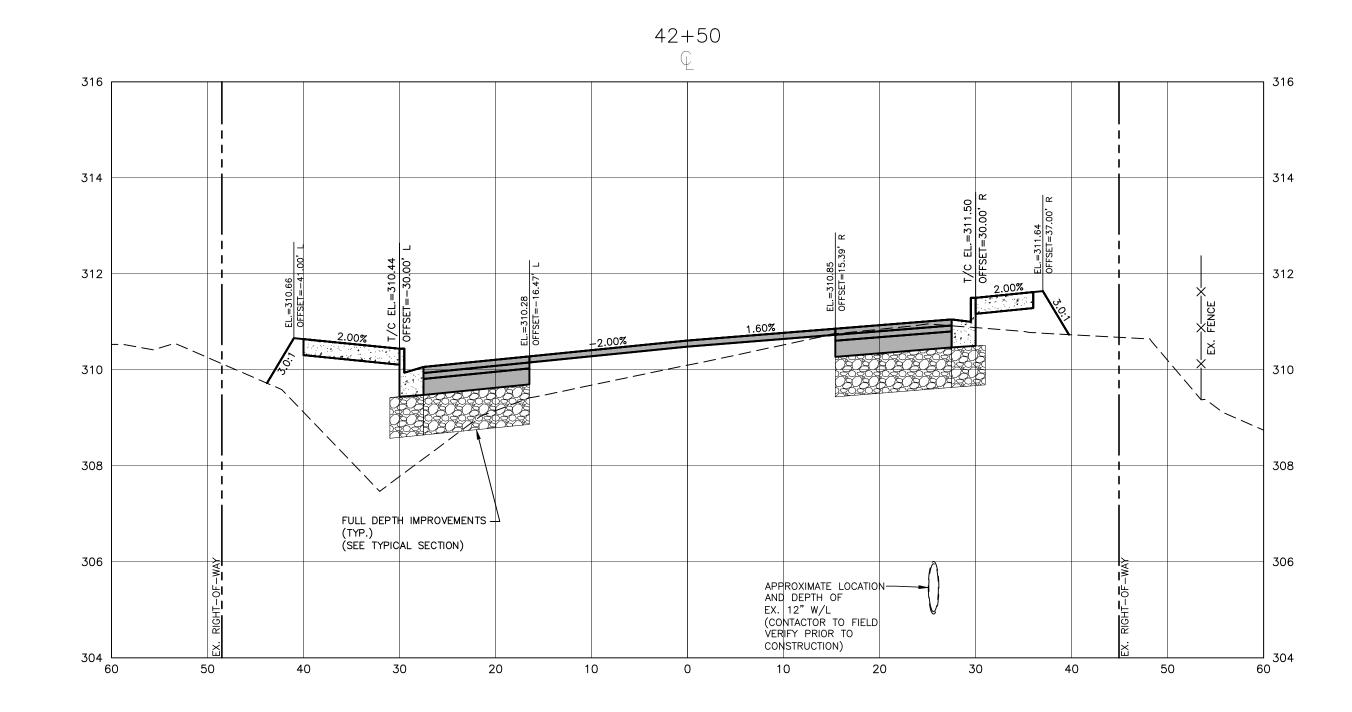
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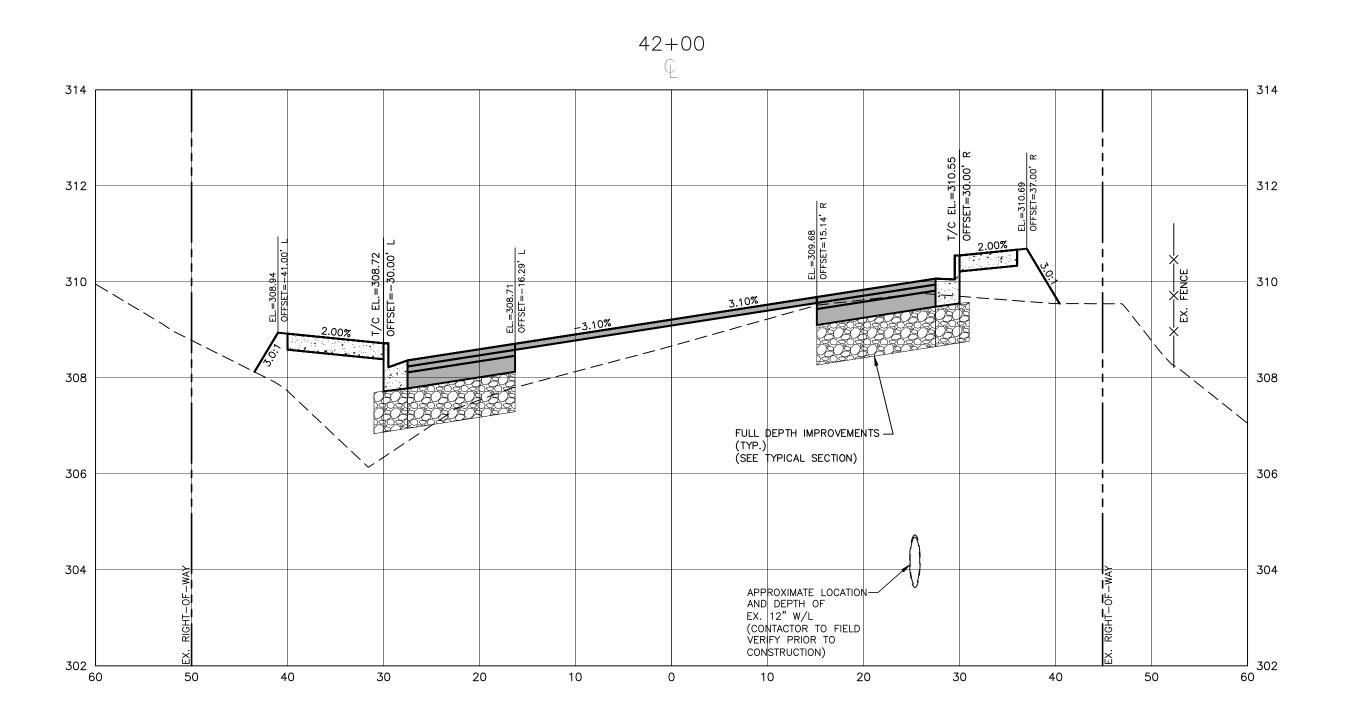
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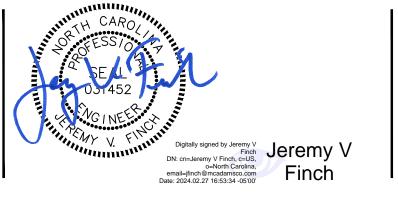
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PHONE: 919. 435. 9510

Patrick Reidy

REVISIONS NO. DATE WAKE FOREST, NC 27587-2901



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS 0 SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

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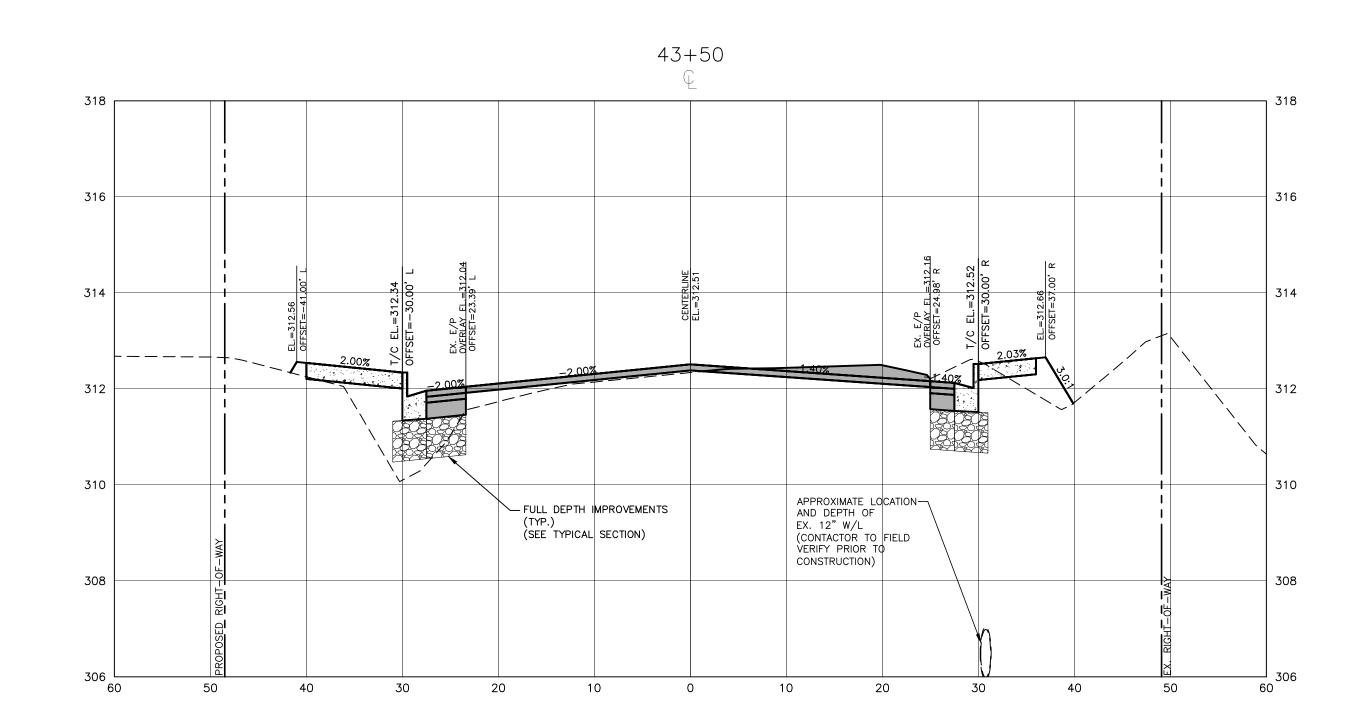
02. 23. 2024

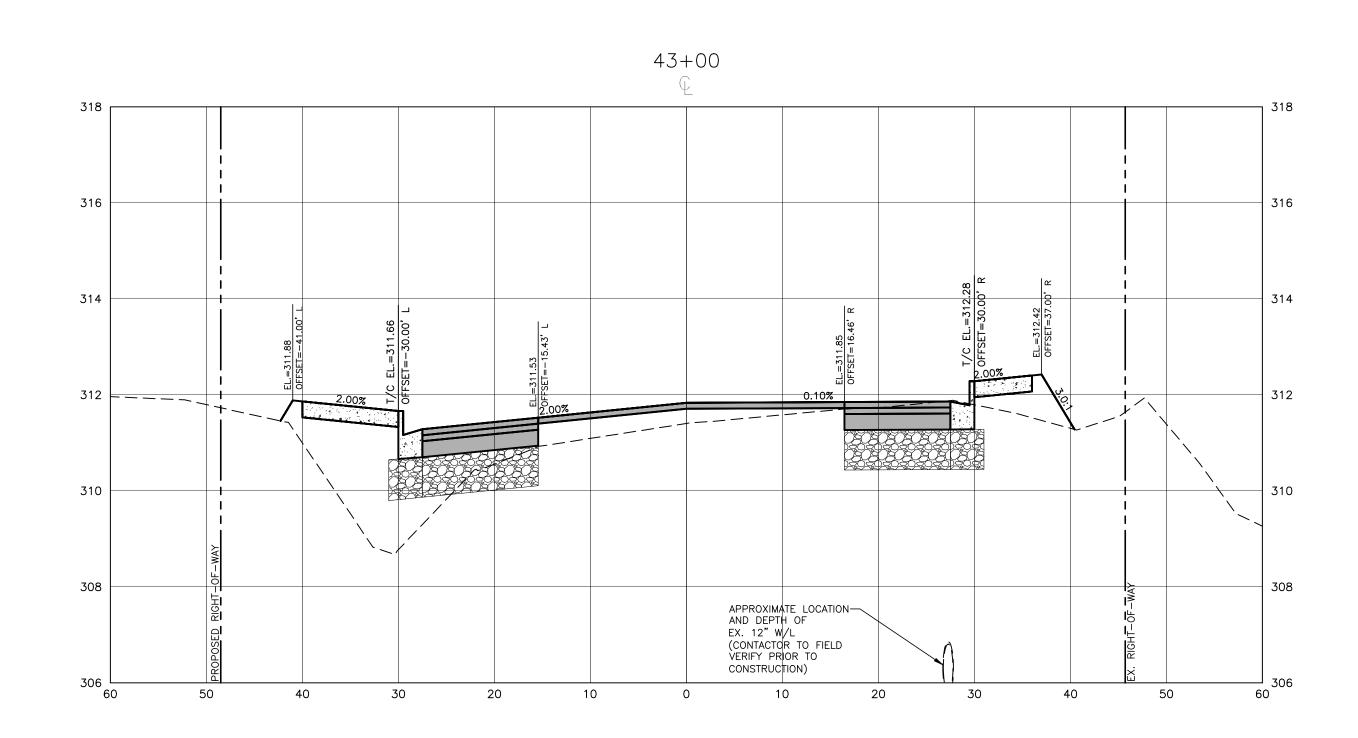
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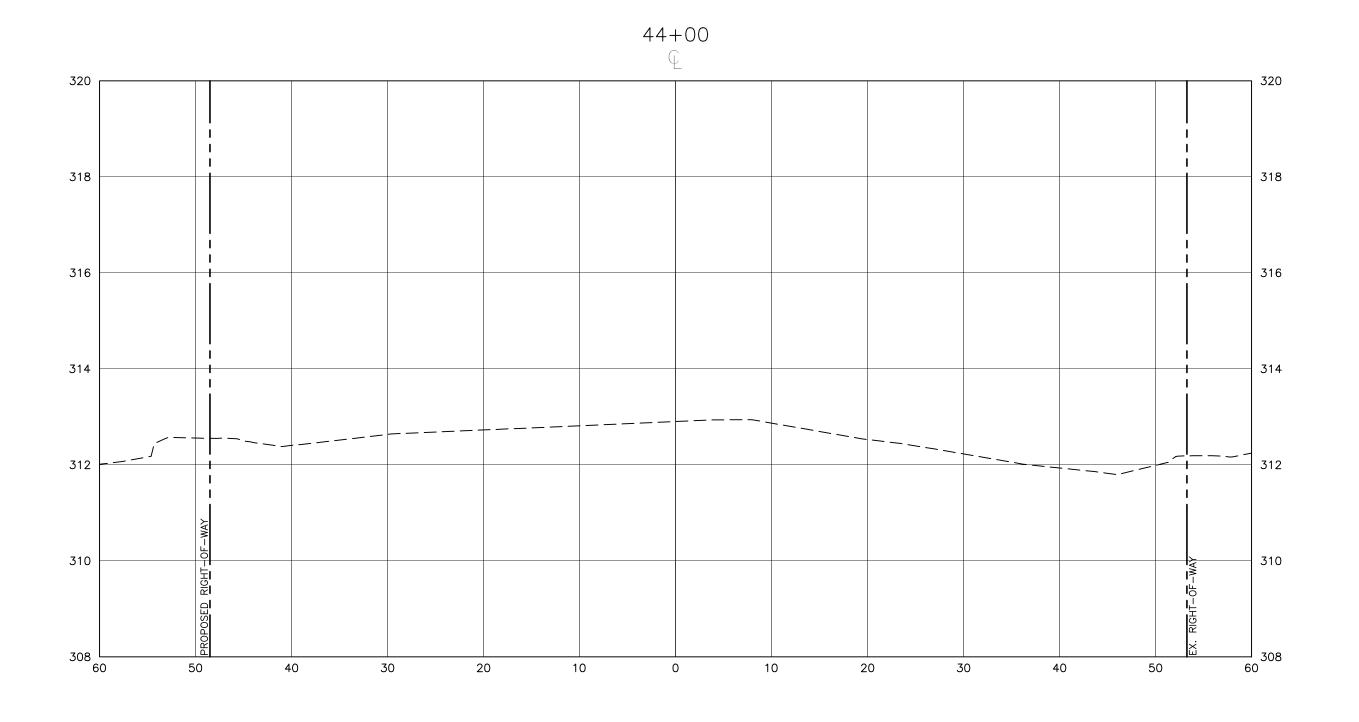
DATE

CROSS SECTIONS S. FRANKLIN, STA. 41+00 THRU STA. 42+50

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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

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WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT

DATE

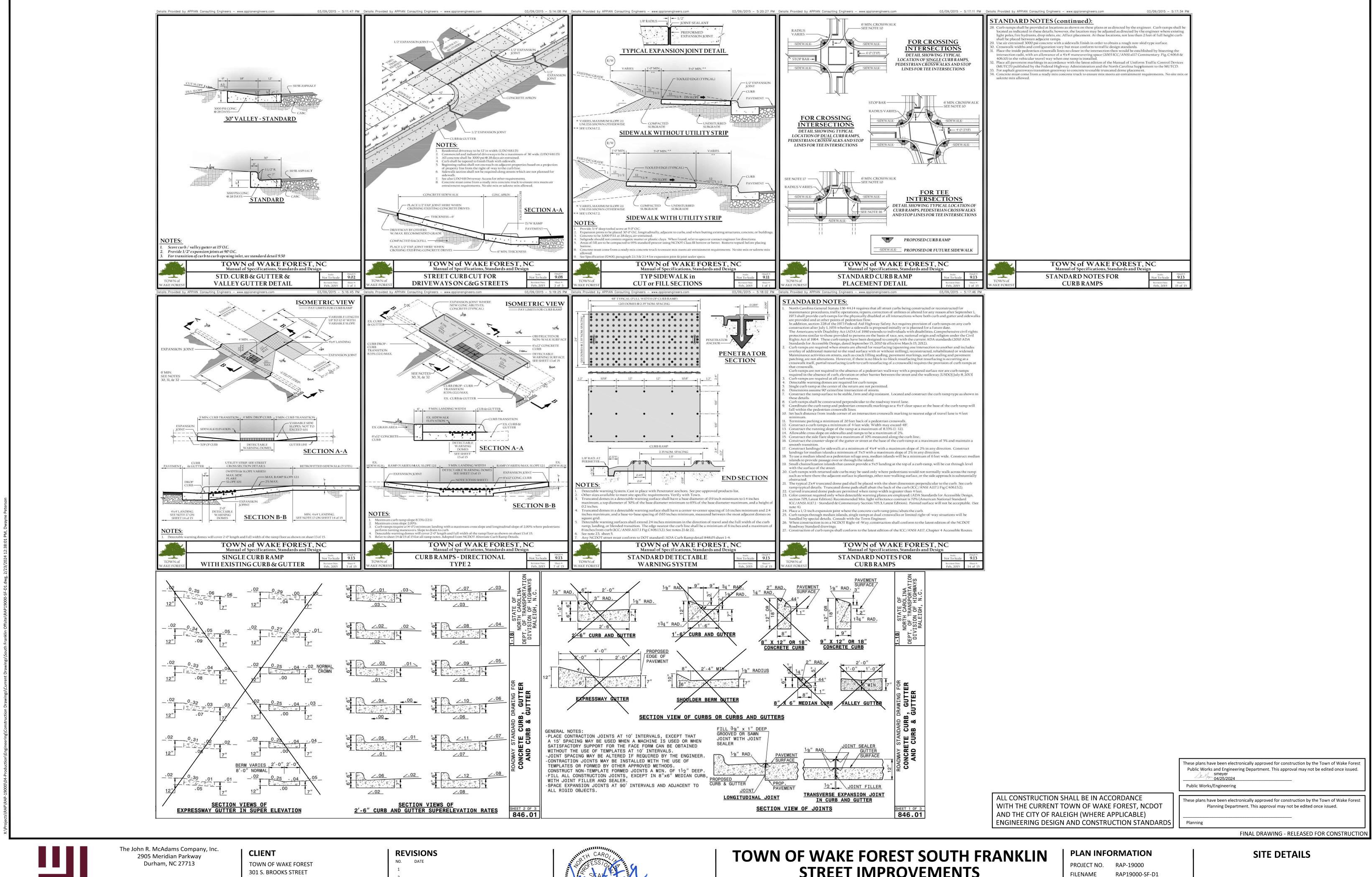
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PROJECT NO. RAP-19000 FILENAME

RAP19000-SF-XS1 CHECKED BY DRAWN BY SCALE 1"=10' H, 1"=2' V

02. 23. 2024

CROSS SECTIONS S. FRANKLIN, STA. 43+00 THRU STA. 44+00





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WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

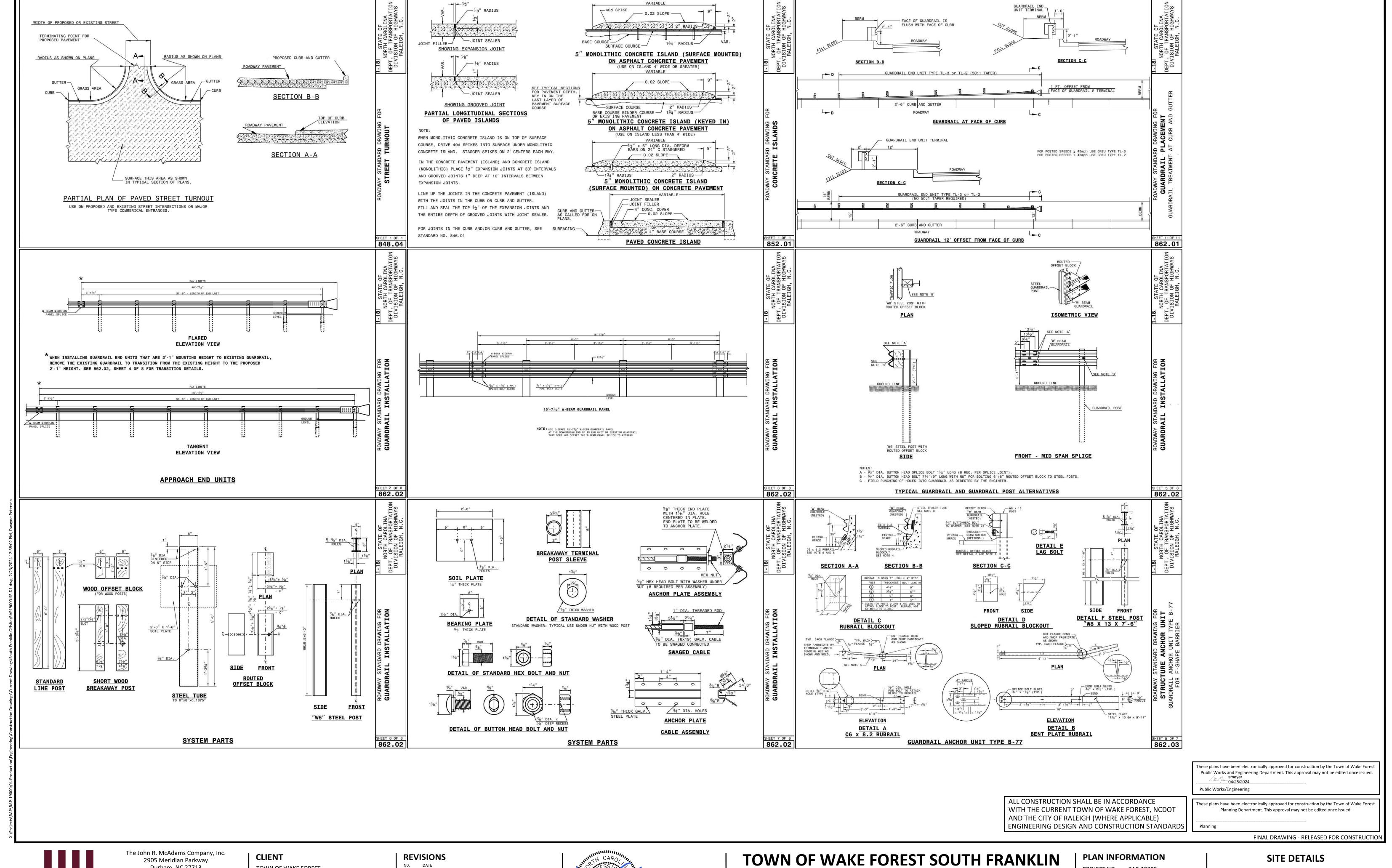


STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

CHECKED BY DRAWN BY SCALE DATE 02. 23. 2024

C8.00





Durham, NC 27713

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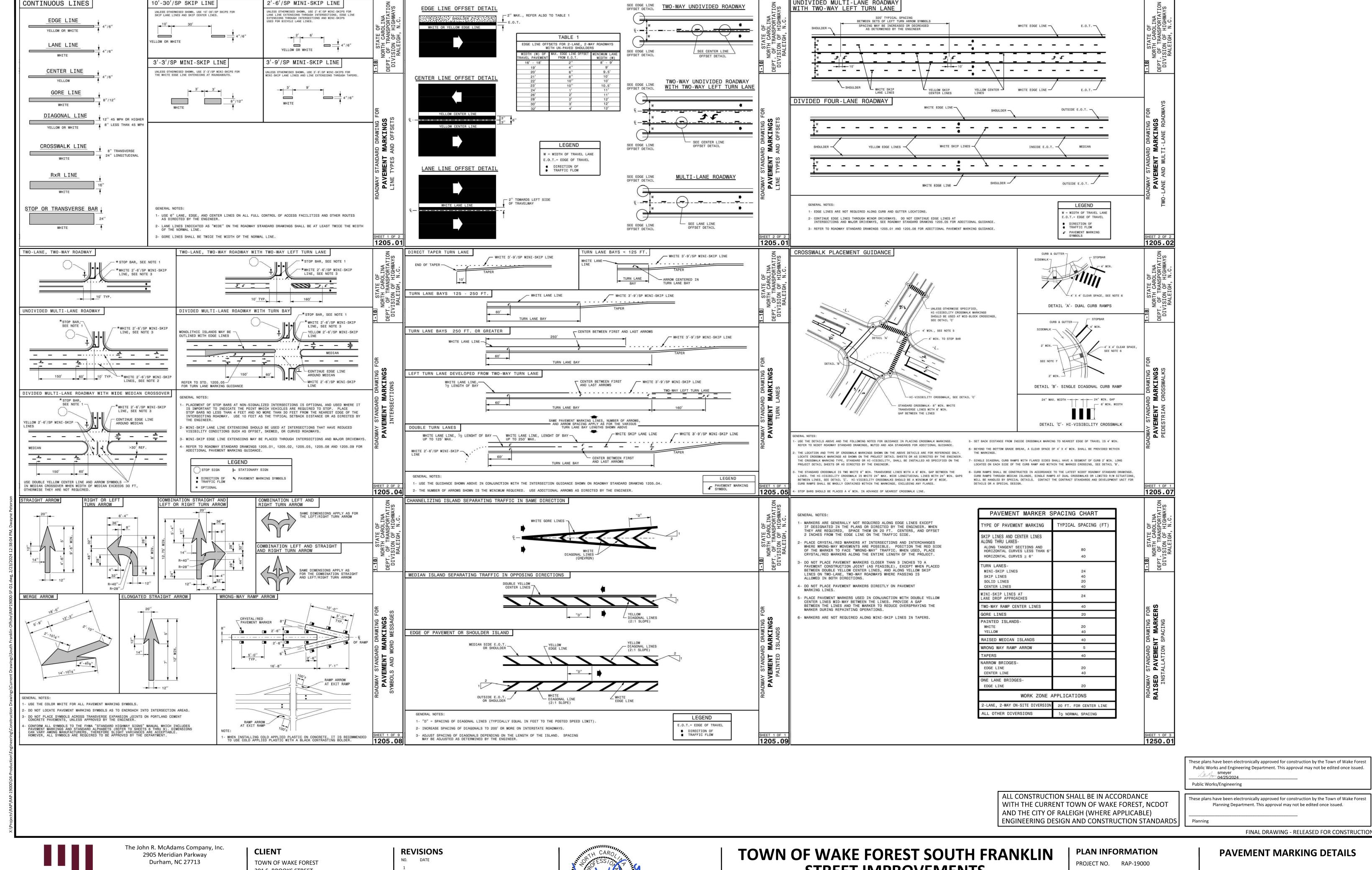
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STREET IMPROVEMENTS

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PROJECT NO. RAP-19000 RAP19000-SF-D1 **FILENAME** CHECKED BY DRAWN BY SCALE N.T.S. DATE 02. 23. 2024



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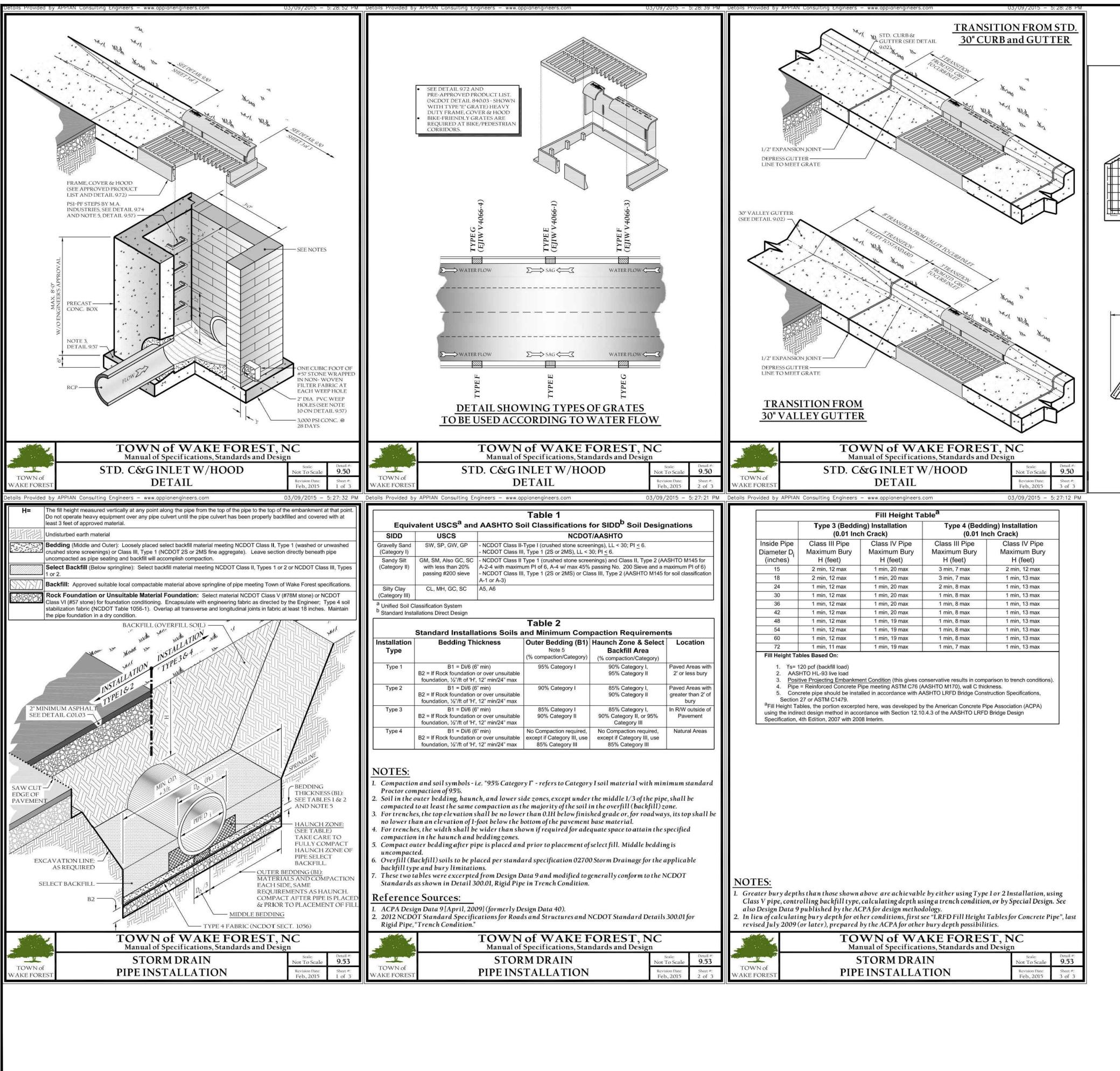
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CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

RAP19000-SF-D1 FILENAME CHECKED BY DRAWN BY SCALE DATE 02. 23. 2024



NOTES:

* THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.01, 838.11, 838.21, 838.27, 838.33,

838.39, 838.51, 838.57, 838.63 AND 838.69. * INSTALL PRECAST ENDWALLS WITH WINGS AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838.

 USE 4000 PSI CONCRETE. * PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615

FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 2" MIN. CLEARANCE.

* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.

* PIPE TO BE GROUTED INTO HEADWALL AT JOB SITE BY CONTRACTOR

* ALL ELEMENTS PRECAST TO MEET ASTM C913. * WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.

* CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS 8" CTS.THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THIS BAR SIZE AS NEEDED.

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FOR BAR SIZE

W1 (FT.)

ELEVATION

		ENDW	ALL DIM	ENSIONS		
FT.	MINIMUM	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.
PIPE DIA.	BAR SIZE	H1(FT.)	H2(FT.)	D (FT.)	W1	W2
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

- REFER TO CHART FOR BAR SIZE

SIDE

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ALL CONSTRUCTION SHALL BE IN ACCORDANCE These plans have been electronically approved for construction by the Town of Wake Fores WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT AND THE CITY OF RALEIGH (WHERE APPLICABLE)

Planning Department. This approval may not be edited once issued.

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MCADAMS

The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

TOWN OF WAKE FOREST

CLIENT

301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

REVISIONS NO. DATE



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

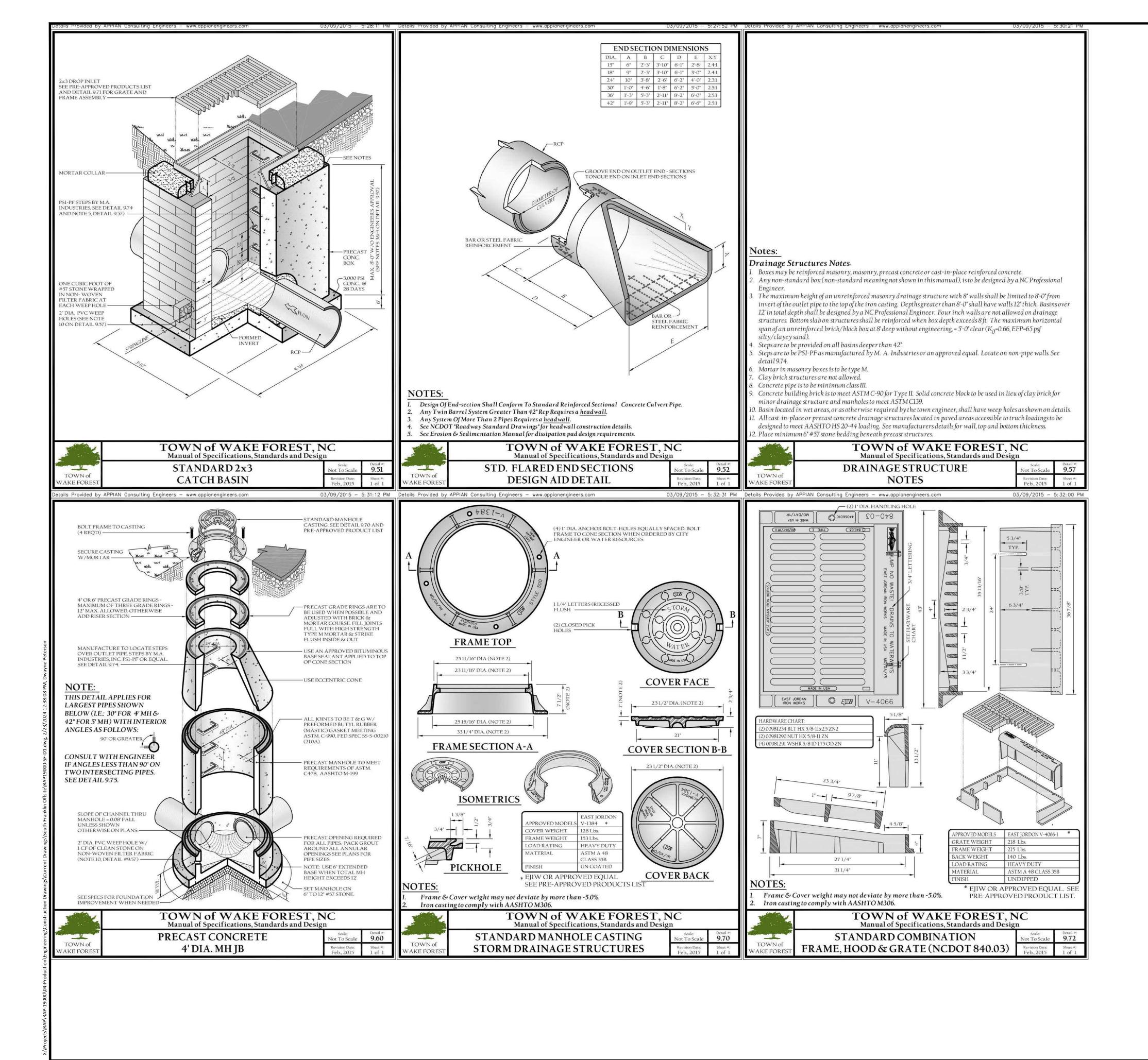
PLAN INFORMATION

ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

PROJECT NO. RAP-19000 FILENAME RAP19000-SF-D1 CHECKED BY DRAWN BY SCALE DATE

02. 23. 2024

STORM DRAINAGE DETAILS



These plans have been electronically approved for construction by the Town of Wake Forest
Public Works and Engineering Department. This approval may not be edited once issued.

smeyer
04/25/2024

Public Works/Engineering

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WAKE FOREST, NC 27587-2901

Patrick Reidy

PHONE: 919. 435. 9510

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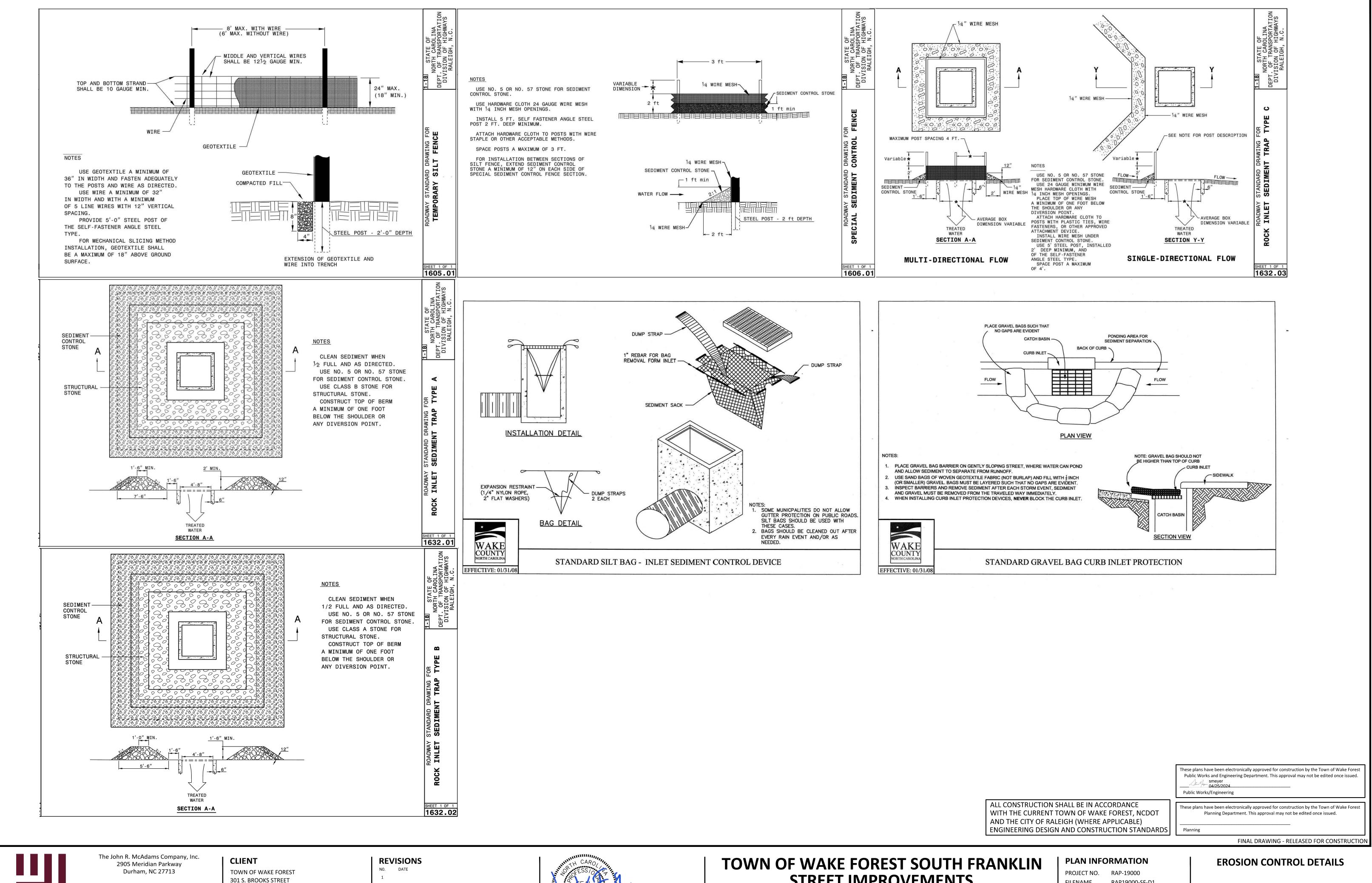
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION
PROJECT NO. RAP-19000

PROJECT NO. RAP-19000
FILENAME RAP19000-SF-D1
CHECKED BY DLP
DRAWN BY RJF
SCALE N.T.S.
DATE 02. 23. 2024

STORM DRAINAGE DETAILS



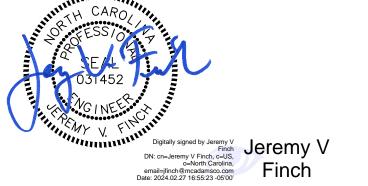
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WAKE FOREST, NC 27587-2901 Patrick Reidy

PHONE: 919. 435. 9510



STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

FILENAME RAP19000-SF-D1 CHECKED BY DRAWN BY SCALE DATE 02. 23. 2024

Seeding mixture Species

Rye (grain)

Rate (lb/acre) 120 use 110

Seeding dates

Mountains—Above 2500 feet: Feb. 15 - May 15 Below 2500 feet: Feb. 1- May 1

Piedmont—Jan. 1 - May 1 Coastal Plain—Dec. 1 - Apr. 15

Soil amendments

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

> Table 6.10a Temporary Seeding **Recommendations for Late** Winter and Early Spring

Seeding mixture

Rye (grain)

Species

Rate (lb/acre) 120 use 110

Seeding dates

Mountains—Above 2500 feet: Feb. 15 - May 15 Below 2500 feet: Feb. 1- May 1 Piedmont—Jan. 1 - May 1

Soil amendments

Coastal Plain—Dec. 1 - Apr. 15

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance

Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

> Table 6.10c Temporary Seeding Recommendations for Fall

Seeding mixture Rye (grain)

Rate (lb/acre)

Seeding dates

Mountains—Aug. 15 - Dec. 15 Coastal Plain and Piedmont—Aug. 15 - Dec. 30

Soil amendments

Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance

Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extent temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or

TEMPORARY SEEDING PER NCDENR EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL SECTION 6.10

NUNSE	CROP SPECIES	1											
				<u> </u>	Up:	timal Plantin	ng Dates						
Common Name	Botanical Name	<u>N</u> ative / Introduced	Seeding Rates lbs/scre	Fertilization/ Ilmestone Ibs/acre	Mountains	Piedmont	Coastal Plains	Sun/Shade tolerant	Wetlands	Riperian Buffers	Invasive Yes or No	Installation / Maintenance Considerations	Other information, commentar
lye Grain	Secale cereale	ı	40 lbs	By soil test	11/1 - 4/30	8/15 - 4/15	8/15 - 4/15	Sun	Yes	Yes	No	Must be mown to reduce	
		1	J			J						competitiveness with	
		<u>/</u>										permanent or long term	
				<u>.</u>								vegetation	
h t	Triticum aestivum		20 lb-	December 1	44/4 4/20	DHE EHE	8/15 - 4/15	Sun	Yes	Yes	No	Must be mown to reduce	Net material second blanch a ma
heat	I nacum aesavum		30 lbs	By soll test	11/1 - 4/30	0/10 - 0/10	6/10 - 4/10	Sun	res	res	INO	competitiveness with	Not water tolerant. May be use
		į.	***************************************										In wetlands that are not
												permanent or long term	continuously saturated.
												vegetation	
rman Millet	Setaria italica	1	10 lbs	By soil test	5/11 - 9/30	5/15 - 8/15	4/15 - 8/15	Sun	Yes	Yes	No	Crop should be cut / disc	Not water tolerant. May be use
		1										prior to planting primary or	in wetlands that are not
												long term vegetation	continuously saturated.
owntop Millet	Urochloe remosa	1	10 lbs	By soil test	5/11 - 9/30	5/15 - 8/15	4/15 - 8/15	Sun	Yes	Yes	No	Crop should be cut / disc	Not water tolerant. May be use
			10 1.22									prior to planting primary or	
												long term vegetation	continuously saturated.
danamaa (hubrida)	Construe construe		15 lbs	Dr. seil tost	ND	NR	4/15 - 8/15	Sun	No	No	Yes	Comp about the set I dies	l les entruteurs plants and sass
idangrass (nybrids)	Sorghum saccharatum		10 108	By soil test	NR	NK	4/15 - 6/15	Sun	NO	INO	198		Use only where plants and seed
	S. bicolor ssp.Drummondi	-		<u>-</u>								prior to planting primary or long term vegetation	can be contained and controlled
												long tom regeneror	
be Lespedeza	Kummerowia striata v. kobe	ı	10 lbs	By soll test	5/1 - 9/1	5/1 - 9/1	5/1 - 9/1	Sun	No	No	No	Consult qualified	Use in Coastal Plain
												horticulturalist or extension	
												agent for over-seeding	
												with primary cover	
rean Lespedeza	Kummerowie stipulacea		10 lbs	By soll test	5/1 - 9/1	5/1 - 9/1	5/1 - 9/1	Sun	No	No	No	Consult qualified	Use in Pledmont and
			.0.00	_,		-1, -1,	-1. 91.						Mountains, May become
												agent for over-seeding	invasive
												with primary cover	
												printing were:	

1. Seeding rates are for hulled seed unless otherwise noted.

2. Fertilizer & Limestone - rates to be applied in absense of soils tests. Recommended application rate assumes significantly disturbed site soils with little or no residual value.

4. Invasive designation as determined by the N.C. Exotic Pest Pant Council and N.C. Native Plant Society . 5. Sprigging is not recommended for immediate stabilization unless terrain is flat heavy mulch is applied and no other immediate stabilization method is practical.

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization Table 6.11.b Successful development depends on planting date (effectiveness goal: 6 mo. - 3 yrs. without an ongoing maintenance program)

NON-NA	TIVE SPECIES												
					Ор	timal Plantir	ng Dates						
Common Name	Botanical Name / Cultivar	<u>N</u> ative /	Broadcast Seeding Rates Ibs/acre	Fertilization/ limestone lbs/acre	Mountains	Piedmont	Coastal Plains	Sun/Shade tolerant	Wetlands	Riparlan Buffers	Invasive Yes or No	Installation / Maintenance Considerations	Other Information, commentary
Sericea Lespedeza	Lespedeza cuneata	1	15 lbs	By soil test	9/1 - 6/1	9/1 - 5/1	10/1 - 4/1	Sun	NR	NR	Yes	Responds well to controlled	Severe Threat
	Dumont											burns	Invasive species
											ļ:		THE REPORT OF THE PARTY OF THE
Crown Vetch	Securigera varia	ı	15 lbs	By soil test	3/15-4/30	NR	NR	Sun	NR	NR	Yes	Highly competitive,	Prefers neutral solls
	(Coronilla varia)											not recommended unless	
reaneaneaneaneaneaneaneaneaneaneaneaneane											Economic de la companie de la compa	an acceptable alternative	
			innonnonnonnon									is not available.	
		,											
Centipede Grass	Eremochloa ophiurois	ı	5 lbs	By soil test	NR	Eastern	9/1 - 5/1	Sun	NR	NR	No	Significant maintenance	Does not tolerate high traffic.
			10 lbs. for	road shoulders	5	only						may be required to obtain	Acceptable for sodding
					I							desired cover	7
CY 31 Tall Fescue	Schedonorus phoenis	I	100 lbs	By soil test	8/15-5/1	9/1-4/15	9/30 - 3/15	Sun /	NR	NR	Yes	If utilized, it is imperative	Acceptable for sodding
	(Festuce arundinace)	9)		42<				mod. Shade				that maintenance includes	1
												a containment plan	1
CY Blue Grass	Poe praterisis	I	15 lbs	By soil test	8/15-5/1	NR	NR	Sun	NR	NR	Yes	If utilized, it is imperative	Prefers neutral soils, highly
												that maintenance includes	competitive, not recommended
												a containment plan	unless an acceptable alternative
												1	is not available.
													Acceptable for sodding
													35
						100001000000000000000000000000000000000	1012011201201201201	rooten motern moters					
Hard Fescue	Festuca brevipila	ı	15 lbs	By soil test	8/1 - 6/1	NR	NR	Shade	NR	NR	No	Not recommended for	Low growing, bunch grass
	(Festuca longifolia)										ļ:	slopes greater than 5%	
Bermuda Grass	Cynodon dactylon	I	25 lbs	By soil test	NR	4/15-6/30	4/15-6/30	Sun	NR	NR	Yes	If utilized, it is imperative	Extremely aggressive, not
												that maintenance includes	recommended and should be
												a containment plan	avoided unless an acceptable
· · · · · · · · · · · · · · · · · · ·													alternative is not available.
								·····					May be sodded or sprigged
Cedaydaaddaaddaaddaaddaad Dooroonoonoonoo													
										ļ	ļ		
		,											
	16											1	

NATIVE	SPECIES									,			
					Opt	timal Plantir	ng Dates						
Common Name	Botanical Name / Cultivar	N ative /	See Table 6.11.d for variety seedling rates	Fertilization/ limestone lbs/acre	Mountains	Piedmont	Coastal Plains	Sun/Shade tolerant	Wetlands	Riparian Buffers	Invasive <u>Y</u> es or <u>N</u> o	Installation / Maintenance Considerations	Other information, commentary
Indiangrass	Sorghastrumrutans /	N	В	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	NR	Well	No	Responds well to controlled	Western coastal plain only
	Cheyerme									drained		burns. Mix with 3 to 5 other seed varieties that have similar soil drainage adaptations.	
ndiangrass	Sorghasturmutars /	N	В	By soil test	NR	12/1 - 5/1	1/1 5/1	Sun	NR	Well	No	Responds well to	Only Indiangrass adaptable to
ilulaliyi ass	Lomenta	IN	D	By soll test	INFC	12/1 - 5/1	1/1-5/1	Sun	NPC	drained	NO	controlled burns. Mix with	Eastern coastal plain (Zone 8)
	LC FOR BC	+								uranieu		3 to 5 other seed varieties	Lasterii coastai piairi (201e 0)
		 										that have similar soil	
							2		~			drainage adaptations.	
		1										aramage adaptation	
Deertongue	Dichanthalium	N	С	By soil test	5/1-4/15	5/1 - 4/1	NR	Sun &	Yes	Poorly	No	Responds well to	
7.4	dandestinum/Tioga							Shade		drained to		controlled burns. Mix with	
										drought		3 to 5 other seed varieties	
	· · · · · · · · · · · · · · · · · · ·						j					that have similar soil	
												drainage adaptations.	
Big Bluestem	Andropogangerardii/	N	D	By soil test	12/1-4/15	12/1 - 4/1	NR	Sun	NR	Welli	No	Responds well to	Warm season grass
	Rountree									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	· · · · · · · · · · · · · · · · · · ·
												that have similar soil	
		1										drainage adaptations.	
. 6.		 			4014 1145	404 14			NE	587.10		5	No.
Big Bluestem	Andropogon gerardii /	N	D	By soil test	12/1-4/15	12/1 - 4/1	NR	Sun	NR	Well	No	Responds well to	Warm season grass
	Kauv	_								drained		controlled burns. Mix with	
		+										3 to 5 other seed varieties	
		+										that have similar soil	
		 										drainage adaptations.	
Big Bluestem	Andropogon gerardii /	Ñ	D	By soil test	12/1-4/15	12/1 - 4/1	12/1-5/1	Sun	NR	Welli	No	Responds well to	Warm season grass
org bidostorii	Earl	 "		by somest	12/1-1/10	12/1 7/1	12) 1 3) 1	Juli	1415	drained	140	controlled burns. Mix with	Wann acason grass
	T-	1						***************************************				3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
												× 100 100 100 100 100 100 100 100 100 10	
ittle Bluestem	Schizachynium	N	E	By soil test	12/1-4/15	NR	NR	Sun	NR	Welli	No	Responds well to	Warm season grass
	socpanium/ Aldous									drained		controlled burns. Mix with	
						<u> </u>						3 to 5 other seed varieties	
							E.			2	I	that have similar soil	
												drainage adaptations.	
ittle Bluestem	Sdizadyium	N	E	By soil test	12/1-4/15	12/1 - 4/1	NR	Sun	NR	Welli	No	Responds well to	Warm season grass
	soqparium/Cimmaron									drained		controlled burns. Mix with	
		-										3 to 5 other seed varieties	
						-						that have similar soil	
	1	1		1	I	1			1	1	ı	drainage adaptations.	I

NATIVE	SPECIES												
					Opt	imal Plantin	g Dates						
Common Name	Botanical Name / Cultivar	<u>N</u> ative /	See Table 6.11.d for variety seedling rates	Fertilization/ limestone lbs/acre	Mountains	Piedmont	Coastal Plains	Sun/Shade tolerant	Wetlands	Riparian Buffers	Invasive <u>Y</u> es or <u>N</u> o	Installation / Maintenance Considerations	Other information, commentary
witchgrass	Panicum virgatum /	N	А	By soil test	12/1-4/15	NR	NR	Sun	NR	Well drained	No	Responds well to	
	Cave-in-Rock									only		controlled burns. Mix with	
												3 to 5 other seed varieties	
												that have similar soil	
······································	· · · · · · · · · · · · · · · · · · ·	anewammmmmw.				350000000000000000000000000000000000000				ramanamanan e		drainage adaptations.	
												9	
witchgrass	Panicum virgatum /		А	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	NR	Well drained	No	Responds well to	
	Blackwell	N								only		controlled burns. Mix with	
												3 to 5 other seed varieties	
	n prosonanamanamanamanamanamanamanamanamanaman											that have similar soil	
												drainage adaptations	
												O to loss on the first on the first of the f	
witchgrass	Panicum virgatum /	N	Α	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	NR	Well drained	No	Responds well to	
	Shelter				1715	1.000 1 17 17	1 mar. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SM11	E-SLN	only		controlled burns. Mix with	
	on one									31.19		3 to 5 other seed varieties	
					***********							that have similar soil	
												drainage adaptations.	
												aramage adaptations.	
witchgrass	Panicum virgatum /	N	Α	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	Yes	Yes	No	Responds well to	
mengiaco	Carthage				122	127 777	1201		100	1,00		controlled burns. Mix with	
	o armago											3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
witchgrass	Panicum virgatum /	N	А	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	No	Poorly	No	Responds well to	
	Kanlow									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
									Ŷ=======				
witchgrass	Panicum virgatum /	N	А	By soil test	NR	12/1 - 5/1	1/1 - 5/1	Sun	No	Poorly	No	Responds well to	
	Alamo				***************************************					drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
						j						that have similar soil	
												drainage adaptations.	
idiangrass	Sorghastrum nutans /	N	В	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	NR	Well	No	Responds well to	Western coastal plain only
	Rumsey									drained		controlled burns. Mix with	
	ļ											3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
diangrass	Sorghastrum nutans /	N	В	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	NR	Well	No	Responds well to	Western coastal plain only
	Osage		Į			į				drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
	T												

HERBACEOUS PLANTS-Seeding recommendations for primary stabilization

NATIVE	SPECIES												
					Opt	imal Plantin	g Dates						
Common Name	Botanical Name / Cultivar	N ative / Introduced	See Table 6.11.d for variety seedling rates	Fertilization/ limestone lbs/acre	Mountains	Piedmont	Coastal Plains	Sun/Shade tolerant	Wetlands	Riparian Buffers	Invasive <u>Y</u> es or <u>N</u> o	Installation / Maintenance Considerations	Other information, commentary
diangrass	Sorghastrumnutars /	N	В	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	NR	Well	No	Responds well to controlled	Western coastal plain only
	Chayerme									drained		burns. Mix with 3 to 5 other seed	
		1										varieties that have similar soil	
							J.					drainage adaptations.]
liangrass	Saghastumnutars /	N	В	By soil test	NR	12/1 - 5/1	1/1 -5/1	Sun	NR	Well	No	Responds well to	Only Indiangrass adaptable to
	Lamenta									drained		controlled burns. Mix with	Eastern coastal plain (Zone 8
		1										3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
		1											
ertonque	Dichenthelium	N	С	By soil test	5/1-4/15	5/1 - 4/1	NR	Sun &	Yes	Poorly	No	Responds well to	
	dandestirum/Tioga				200000000000000000000000000000000000000	21.07.00.00		Shade		drained to		controlled burns. Mix with	
										drought		3 to 5 other seed varieties	
										arougne		that have similar soil	1
												drainage adaptations.	1
		1											
q Bluestem	Andopogangerardii/	N	D	By soil test	12/1-4/15	12/1 - 4/1	NR	Sun	NR	Welli	No	Responds well to	Warm season grass
3	Rountee			-,	7.00		1,51,67		32322	drained		controlled burns. Mix with	3.20
										diamod		3 to 5 other seed varieties	
	†											that have similar soil	<u> </u>
												drainage adaptations.	
							0					aramago adaptadonor	
q Bluestem	Andropogan gerardii /	N	D	By soil test	12/1-4/15	12/1 - 4/1	NR	Sun	NR	Well	No	Responds well to	Warm season grass
J. T. S.	Kaw						1.0,00	20001		drained		controlled burns. Mix with	
		1										3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	
g Bluestem	Andopogengerardii/	N	D	By soil test	12/1-4/15	12/1 - 4/1	12/1-5/1	Sun	NR	Welli	No	Responds well to	Warm season grass
×	Earl									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
	1											that have similar soil	
		1										drainage adaptations.	
		1											
ttle Bluestem	Sdizadyium	N	E	By soil test	12/1-4/15	NR	NR	Sun	NR	Welli	No	Responds well to	Warm season grass
	soopanium/Aldous									drained		controlled burns. Mix with	
							ļ					3 to 5 other seed varieties	
		1										that have similar soil	
												drainage adaptations.	
												and the second s	
tle Bluestem	Schizachyium	N	E	By soil test	12/1-4/15	12/1 - 4/1	NR	Sun	NR	Welli	No	Responds well to	Warm season grass
	sopaii.m/Cimmaon						23.03	7711		drained	125	controlled burns. Mix with	
		1										3 to 5 other seed varieties	
												that have similar soil	
												drainage adaptations.	1
		 									-	drainage adaptations.	-

NATIVE	SPECIES	,								,			
					Opt	timal Plantir	ig Dates						
Common Name	Botanical Name / Cultivar	<u>N</u> ative / <u>I</u> ntroduced	See Table 6.11.d for variety seedling rates	Fertilization/ limestone lbs/acre	Mountains	Piedmont	Coastal Plains	Sun/Shade tolerant	Wetlands	Riparian Buffers	Invasive <u>Y</u> es or <u>N</u> o	Installation / Maintenance Considerations	Other information, commentary
tle Bluestem	Schizachynium	N	E	By soil test	NR	NR	12/1-4/1	Sun	NR	Welli	No	Responds well to	Warm season grass
	soqparium/Commun									drained		controlled burns. Mix with	
												3 to 5 other seed varieties	
										3		that have similar soil	
								Į.	<u> </u>			drainage adaptations.	
				X #1395 22 PK SIN DAL				13355001-05			10/8/7		TO CHECOED AND SOME OF THE CO.
weet Woodreed	Cirra aturdracea	N	F	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun &	Yes	Poorly to	No	Mix with 3 to 5 other seed	Warm season grass
								mod. Shade		well drained		varieties that have similar	
												soil drainage adaptations	
		N.		B 12.	40 (4.4 (4.5	40 (4 4 (4	40(4.4(4			D i	NI.	Marine Day Englished	306
tice Cutgrass	Leasia aryzaides	N	G	By soil test	12/1-4/15	12/1 - 4/1	12/1-4/1	Sun	Yes	Poorly drained	No	Mix with 3 to 5 other seed varieties that have similar	Warm season grass
	 	-							-	uranieu		soil drainage adaptations	
												son drainage adaptations	-
idian Woodoats	Chasmanthiumlatifatium	n N	Н	By soil test	3/1 - 5/15	2/15 - 4/1	2/15-3/20	Sun &	NR	Well	No	Mix with 3 to 5 other seed	Cool season grass
ididii woododis	UTLUTU E ATTECAÇÃO	1 17		by son test		B/15 - 10/15			MIC	drained	110	varieties that have similar	Coor goason grass
					77 10 07 10	70 10/10	077 777	inour cinauc		aranioa		soil drainage adaptations	
												3	
irginia Wild Rye	Elyma virgiricus	N	l l	By soil test	3/1 - 5/15	2/15 - 4/1	2/15-3/20	Sun &	NR	Well	No	Mix with 3 to 5 other seed	Cool season grass
					7/15-8/15	B/15 - 10/18	9/1 - 11/1	mod. Shade		drained		varieties that have similar	
									Į			soil drainage adaptations	
astern Bottlebrush	Elyms hystix	N	-J	By soil test	3/1 - 5/15	2/15 - 4/1	NR	Sun &	NR	Well	No	Mix with 3 to 5 other seed	Cool season grass
irass					7/15-8/15	B/15 - 10/15	5	mod. Shade		drained		varieties that have similar	
												soil drainage adaptations	
oft Rush	Junas ellisus	N	К	By soil test		12/1 - 5/1	12/1-4/15	Sun	Yes	Poorly	No	Mix with 3 to 5 other seed	
	ļ				8/15-10/15	9/1 - 11/1				drained		varieties that have similar	
												soil drainage adaptations	
hallan Cadaa	0	l N	,	Donas Danis	1011 EISE	40/4 F/4	1011 4115	Corre	Vee	Desale	NI-	h Karanish O da E ashan and	
hallow Sedge	Caraktuida	N	L	By soil test	8/15-10/15	12/1 - 5/1 9/1 - 11/1	12/1-4/15	Sun	Yes	Poorly	No	Mix with 3 to 5 other seed	
		1			or 10-10/15	3/1-11/1			-	drained		varieties that have similar	
												soil drainage adaptations	
ov Codao	Commerce trinspirts	NI.	1	Duneilter	10/1 E/1E	10/1 5/1	10/1 1/15	Cup	Voc	Doorby	No	Mix with 3 to 5 other seed	+
ox Sedge	Careix v. lipinoidea	N	, L	By soil test	12/1 - 5/15 8/15-10/15		1211-4/15	Sun	Yes	Poorly drained	No	varieties that have similar	
		1			0110-10/10	ə/1 - 11/1			Š	drained		soil drainage adaptations	

2. Fertilizer & Limestone - rates to be applied in absense of soils tests. Recommended application rate assumes significantly disturbed site soils with little or no residual value 3. NR means Species not recommended for this region or application area. 4. Native, warm season grasses require six or more months to germinate under optimum conditions. If they are planted in the summer, then a whole year will have to pass before they germinate

5. Invasive designation as determined by the N.C. Exotic Pest Pant Council and N.C. Native Plant Society 6. Sprigging is not recommended for immediate stabilization unless terrain is flat, heavymulch is applied and no other immediate Sodding for immediate stabilization - see primary stabilization charts (other information column) and Section 6.12 8. Long term stabilization can only be accomplished with an adequate, immediate, and primary stabilization program. To achieve long term protective cover with the species listed in

> ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT AND THE CITY OF RALEIGH (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. IF AVAILABLE.

. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.

. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS

APPLY AGRICULTURAL LIME, FERTILIZER AND SUPER PHOSPHATE UNIFORMLY AND MIX WITH SOIL.

APPLY: AGRICULTURAL LIMESTONE - 2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS) FERTILIZER - 1,000 LBS./ACRE - 10-10-10 SUPER PHOSPHATE - 500 LBS./ACRE - 20% ANALYSIS

LEAVING THE SURFACE REASONABLY SMOOTH AND UNIFORM.

. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES

SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT CULTIPACK AFTER SEEDING.

MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. APPLY: MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW ANCHOR - ASPHALT EMULSION @ 300 GALS./ACRE

INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE

TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

SEEDBED PREPERATION

These plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Department. This approval may not be edited once issued.

Public Works/Engineering These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be edited once issued.

FINAL DRAWING - RELEASED FOR CONSTRUCTION



The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

www.mcadamsco.com

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187 TOWN OF WAKE FOREST

CLIENT

301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

REVISIONS NO. DATE



PERMANENT SEEDING PER NCDENR

EROSION & SEDIMENT CONTROL PLANNING AND DESIGN MANUAL

VERSION 6/06 (REVISED 3/09), SECTION 6.11

TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP-19000 FILENAME RAP19000-SF-D1 CHECKED BY DLP DRAWN BY SCALE N.T.S. DATE 02. 23. 2024

SEEDING SCHEDULE

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH mplementing the details and specifications on this plan sheet will result in the constructio

activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION F: GROUND STABILIZATION

	Re	equired Ground Stabil	ization Timeframes
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	Areas with slopes flatter than 4:1	14	 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the

echniques in the table below:

• Temporary grass seed covered with straw or | • Permanent grass seed covered with straw or other mulches and tackifiers

other mulches and tackifiers Hydroseeding Rolled erosion control products with or

 Geotextile fabrics such as permanent soil reinforcement matting without temporary grass seed Hydroseeding Appropriately applied straw or other mulch
 Shrubs or other permanent plantings covered

Plastic sheeting

 Uniform and evenly distributed ground cover sufficient to restrain erosion

• Structural methods such as concrete, asphalt or Rolled erosion control products with grass seed

Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.

Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging

Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

QUIPMENT AND VEHICLE MAINTENANCE

Maintain vehicles and equipment to prevent discharge of fluids.

Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the

I. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).

Remove leaking vehicles and construction equipment from service until the problem has been corrected Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

to a recycling or disposal center that handles these materials.

Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

Never bury or burn waste. Place litter and debris in approved waste containers.

Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds.

Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow. Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

Contain liquid wastes in a controlled area. Containment must be labeled, sized and placed appropriately for the needs of site. . Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

PORTABLE TOILETS

Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.

Provide staking or anchoring of portable toilets during periods of high winds or in high Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace

EARTHEN STOCKPILE MANAGEMENT

with properly operating unit.

Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably

Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile. Provide stable stone access point when feasible.

Stabilize stockpile within the timeframes provided on this sheet and in accordance

with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

CONCRETE WASHOUTS

lot perimeter silt fence.

Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local

and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within

Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.

Do not use concrete washouts for dewatering or storing defective curb or sidewalk

sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum,

<u>PLAN</u>

install protection of storm drain inlet(s) closest to the washout which could receive

entrance pad in front of the washout. Additional controls may be required by the approving authority. Install at least one sign directing concrete trucks to the washout within the project

Locate washouts in an easily accessible area, on level ground and install a stone

limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.

0. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

Store and apply herbicides, pesticides and rodenticides in accordance with label Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of

Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately. Do not stockpile these materials onsite.

accidental poisoning.

Create designated hazardous waste collection areas on-site. Place hazardous waste containers under cover or in secondary containment. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weeker holiday periods, and no individual-day rainfall informatic available, record the cumulative rain measurement for those attended days (and this will determine if a site inspection needed). Days on which no rainfall occurred shall be record "zero." The permittee may use another rain-monitoring dapproved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Identification of the measures inspected, Date and time of the inspection, Name of the person performing the inspection, Indication of whether the measures were operating properly, Description of maintenance needs for the measure, Description, evidence, and date of corrective actions taken
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a recoof the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has the site limits, 2. Description, evidence, and date of corrective actions taken an explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation o stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this per
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

requirements for all E&SC measures

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.

have been performed. (e) Corrective actions have been taken Initial and date a copy of the approved E&SC to E&SC measures. plan or complete, date and sign an inspection report to indicate the completion of the 2. Additional Documentation to be Kept on Site

Complete, date and sign an inspection report.

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received. p) Records of inspections made during the previous twelve months. The permittee shall

record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather).

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,

b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,

d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above, (e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and () Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

SELF-INSPECTION, RECORDKEEPING AND REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

SECTION C: REPORTING

They are 25 gallons or more,

 They are less than 25 gallons but cannot be cleaned up within 24 hours, They cause sheen on surface waters (regardless of volume), or They are within 100 feet of surface waters (regardless of volume).

Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800)

Reporting Timeframes (After Discovery) and Other Requirements

- 1	(d) Visible sediment	1 -	Within 24 nours, an oral of electronic notification.
	deposition in a stream or wetland	•	Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.
		•	If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
ı	(b) Oil spills and	•	Within 24 hours, an oral or electronic notification. The notification
ı	release of		shall include information about the date, time, nature, volume and
ı	hazardous		location of the spill or release.
ı	substances per Item		
ı	1(b)-(c) above	<u> </u>	
ı	(c) Anticipated	•	A report at least ten days before the date of the bypass, if possible.
l	bypasses [40 CFR	•	The report shall include an evaluation of the anticipated quality and
	bypasses [40 CFR 122.41(m)(3)]	•	The report shall include an evaluation of the anticipated quality and effect of the bypass.
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification.
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR		The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification.
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance,
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger health or the	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger health or the environment[40	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and
	bypasses [40 CFR 122.41(m)(3)] (d) Unanticipated bypasses [40 CFR 122.41(m)(3)] (e) Noncompliance with the conditions of this permit that may endanger health or the	•	The report shall include an evaluation of the anticipated quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to

case-by-case basis.

(a) Visible sediment • Within 24 hours, an oral or electronic notification.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/1

STRUCTURE WITH LINER <u>UTES:</u> . ACTUAL LOCATION DETERMINED IN -CLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN.) NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD CLEARLY MARKED SIGNAGE 2. THE CONCRETE WASHOUT NOTING DEVICE (18"X24" MIN.) STRUCTURES SHALL BE MAINTAINED 2. THE CONCRETE WASHOUT STRUCTURES SHALL WHEN THE LIQUID AND/OR SOLID BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD. 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ONSITE CONCRETE WASHOUT

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT AND THE CITY OF RALEIGH (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS These plans have been electronically approved for construction by the Town of Wake Forest Public Works and Engineering Department. This approval may not be edited once issued. 04/25/2024 Public Works/Engineering

These plans have been electronically approved for construction by the Town of Wake Fores Planning Department. This approval may not be edited once issued.

FINAL DRAWING - RELEASED FOR CONSTRUCTIO

The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

CLIENT

TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510

REVISIONS NO. DATE



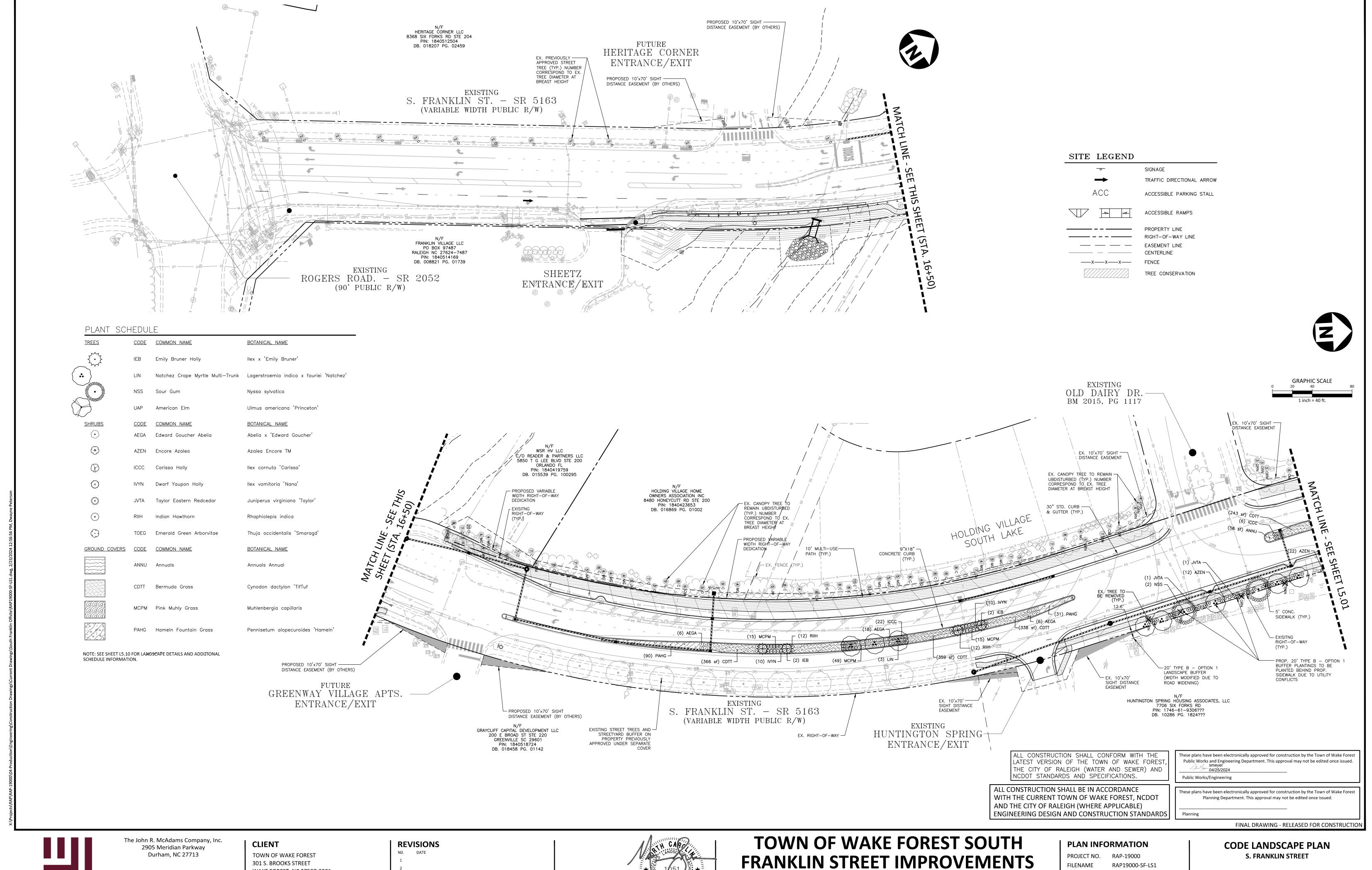
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION PROJECT NO. RAP-19000

FILENAME RAP19000-SF-D1 CHECKED BY DRAWN BY SCALE DATE 02. 23. 2024

NCG01 SELF INSPECTION





phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

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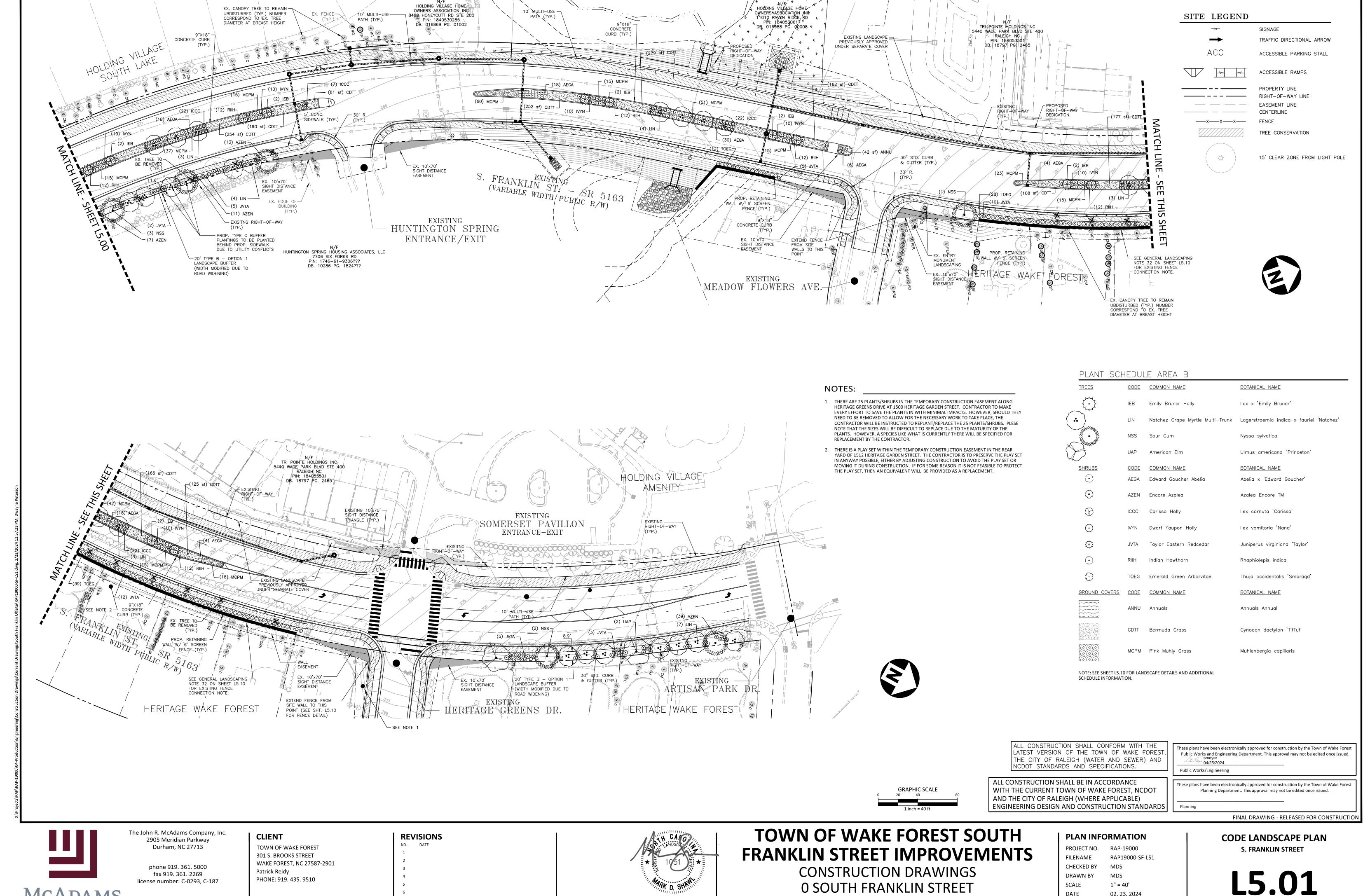
WAKE FOREST, NC 27587-2901 Patrick Reidy PHONE: 919. 435. 9510



CONSTRUCTION DRAWINGS **O SOUTH FRANKLIN STREET** WAKE FOREST, NORTH CAROLINA

CHECKED BY DRAWN BY SCALE 1" = 40' DATE 02. 23. 2024

L5.00



DATE

WAKE FOREST, NORTH CAROLINA

02. 23. 2024

McAdams

www.mcadamsco.com

NORTH CAROLINA STANDARDS AND SPECIFICATIONS.

INSTALLATION.

- 2. CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- 3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR
- 4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
- 5. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S
- 6. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING BUILDINGS, GRADING, WALLS, ETC., REFER TO ARCHITECTURE, SITE AND GRADING PLANS.
- 7. VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 8. CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- 10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
- 11. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- 12. ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
- 13. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
- 15. PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
- 16. PROPOSED TREES TO BE PLANTED A MINIMUM 5 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
- 17. CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS UNLESS WAIVED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ADJUST PH AND
- 18. TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CINDERS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIAL.

OVERALL PLANT SCHEDULE

IEB

LIN

NSS

UAP

AZEN 39

ICCC

PAHG

121

NOTE: PREVIOUSLY APPROVED STREET TREE SPECIES AND QUANTITIES NOT INCLUDED WITH OVERALL PLANT SCHEDULE. SEE SHEETS L5.00

AND L5.01 FOR LOCATION OF PREVIOUSLY APPROVED STREET TREES

<u>QTY</u>

107

••

<u>SHRUBS</u>

(•)

FERTILITY BASED UPON THE SOIL TEST RESULTS.

- 19. LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES.
 APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL
 TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX
 THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD PLANTING SOIL MIX
 TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH
 GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING
 SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- 20. IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE SOIL PROFILES.
- 21. PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- 22. ALL TREE PLANTINGS SHALL BE MULCHED WITH 3 INCHES OF SHREDDED BARK OR 4 INCHES OF PINE STRAW IN A 3-FOOT RADIUS AROUND THE TREE, OR TO THE DRIPLINE, WHICHEVER IS GREATER. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- 23. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
- 24. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
- 25. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.
- 26. EXCAVATE EDGES OF ALL PLANTING BEDS TO 2 INCH DEPTH TO FORM A NEAT AND CRISP DEFINITION.
- 27. CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
- 28. REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
- 29. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
- 30. CONTRACTOR TO PERFORM PHOTO/VIDEO DOCUMENTATION OF EXISTING CONDITIONS OF THE ENTIRE LENGTH OF THE PROJECT PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
 31. CONTRACTOR TO REPLACE ANY EXISTING REMOVED OR DAMAGED VEGETATION RELATED TO DEMOLITION OR CONSTRUCTION OF PROPOSED ROADWAY IMPROVEMENTS UNLESS DESIGNATED TO BE
- 32. ALL EXISTING ALUMINUM FENCING WITHIN THE LIMITS OF CONSTRUCTION ASSOCIATED WITH RESIDENTIAL/HOA PROPERTY OR OTHERWISE SHALL BE REPLACED WITH THE 6' BLACK ALUMINUM PRIVACY FENCE. ALL EX. WOODEN FENCING (PRIVATE YARD FENCES) SHALL BE REPLACED IN-KIND.

Ilex x 'Emily Bruner' / Emily Bruner Holly

Ulmus americana 'Princeton' / American Elm

Abelia x 'Edward Goucher' / Edward Goucher Abelia

Juniperus virginiana 'Taylor' / Taylor Eastern Redcedar

Thuja occidentalis 'Smaragd' / Emerald Green Arborvitae

Pennisetum alopecuroides 'Hameln' / Hameln Fountain Grass

Nyssa sylvatica / Sour Gum

BOTANICAL / COMMON NAME

Azalea Encore TM / Encore Azalea

Ilex cornuta 'Carissa' / Carissa Holly

Rhaphiolepis indica / Indian Hawthorn

2,309 sf Cynodon dactylon 'TifTuf / Bermuda Grass

Muhlenbergia capillaris / Pink Muhly Grass

42 sf Annuals Annual / Annuals

CLIENT

Patrick Reidy

PHONE: 919. 435. 9510

llex vomitoria 'Nana' / Dwarf Yaupon Holly

Lagerstroemia indica x fauriei 'Natchez' / Natchez Crape Myrtle Multi-Trunk —

REMOVED OUTSIDE OF CONSTRUCTION LIMITS.

AREA B BOTANICAL / COMMON NAME

LANDSCAPE CALCULATIONS

20' TYPE B BUFFER - OPTION 1

SOUTH FRANKLIN STREE	T @ HERITAGE GREEN DRIVE	320 LF
CANOPY TREES REQUIRED: PROVIDED:	4 (1/100 LF) 4	
EVERGREEN TREES REQUIRED: PROVIDED:	8 (2/100 LF) 8	
UNDERSTORY TREES REQUIRED: PROVIDED:	7 (2/100 LF) 7	
SHRUBS REQUIRED: PROVIDED:	39 (12/100 LF) 39 (50% EVERGREEN SPECIES MIN.)	

SOUTH FRANKLIN STREET @ HUNTINGTON SPRING 435 LF

REQUIRED: PROVIDED:	5 (1/100 LF) 5
EVERGREEN TREES REQUIRED: PROVIDED:	10 (2/100 LF) 10
UNDERSTORY TREES REQUIRED:	10 (2/100 LF)

PROVIDED:

REQUIRED: 60 (12/100 LF)
PROVIDED: 65 (50% EVERGREEN SPECIES MIN.)

ALL OTHER BUFFER REQUIREMENTS ALONG ROADWAY SHALL BE SATISFIED WITH 6' SOLID SCREEN FENCE AND EVERGREEN PLANTINGS PER TOWN OF WAKE FOREST PLANNING.

6-8'

SPACING CONT

SPREAD SPACING

24" o.c.

30" o.c.

2.5"

2.5"

<u>HEIGHT</u>

48" min

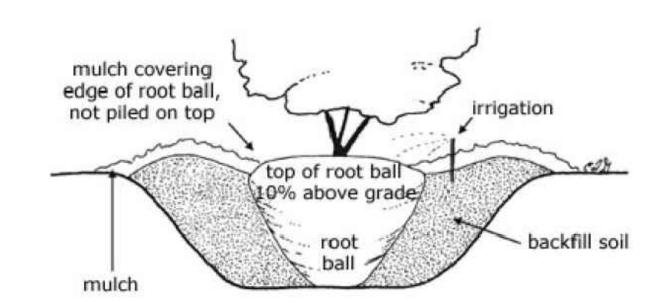
18-24"

48" min

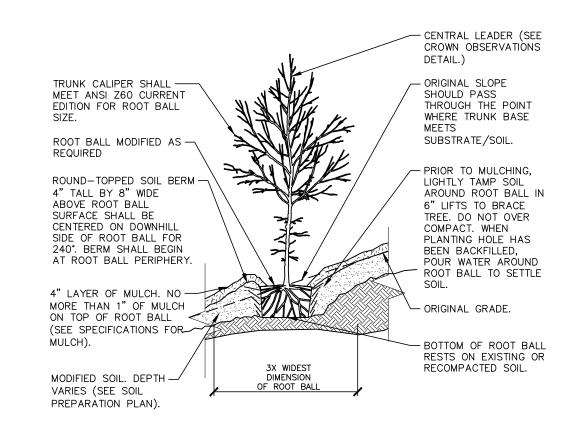
<u>CONT</u>

1 gal

1 gal



1 TREE INSTALLATION (TOWN OF WAKE FOREST TYP. DETAIL)
SCALE: NTS

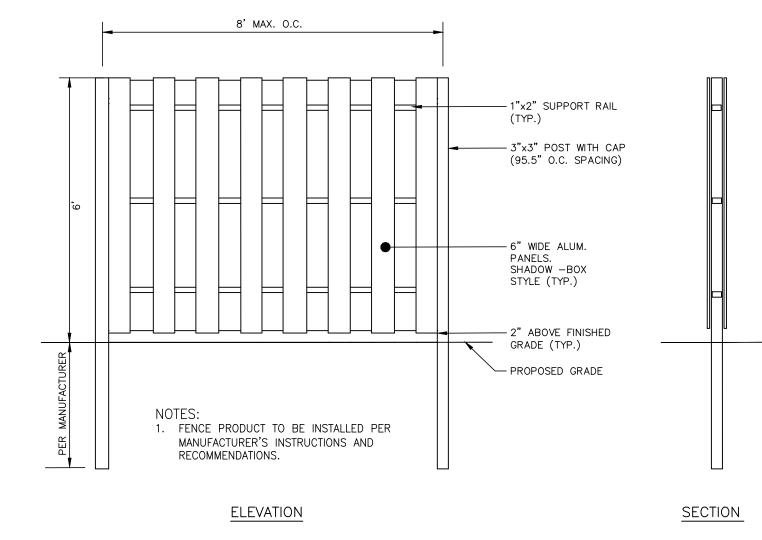


NOTES:

1. TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.

2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

TREE ON SLOPE 5% (20:1) TO 50% (2:1) - MODIFIED SOIL SCALE: N.T.S.

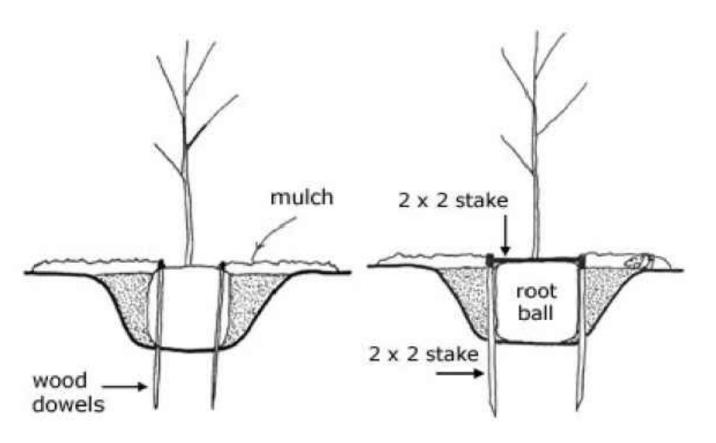


PRODUCT INFORMATION:

SUPPLIER: FENCE DEPOT.COM
MODEL: RESIDENTIAL SOLID PANEL PRIVACY FENCE
https://https://www.fence-depot.com/fence/
residential-solid-panel-aluminum-privacy-fence/

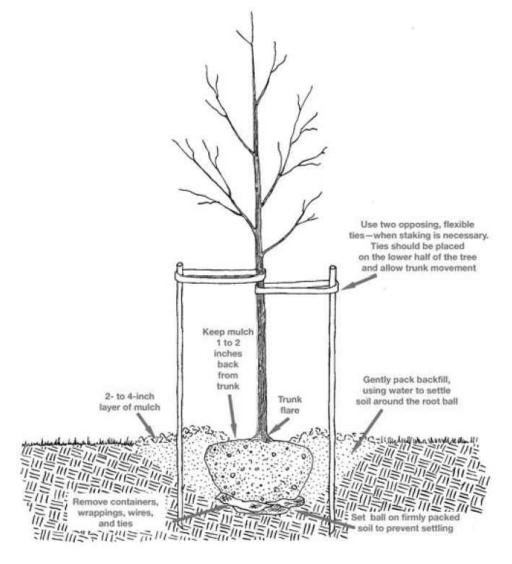
1.833.442.3655

05 ALUMINUM PRIVACY FENCE
SCALE: NTS

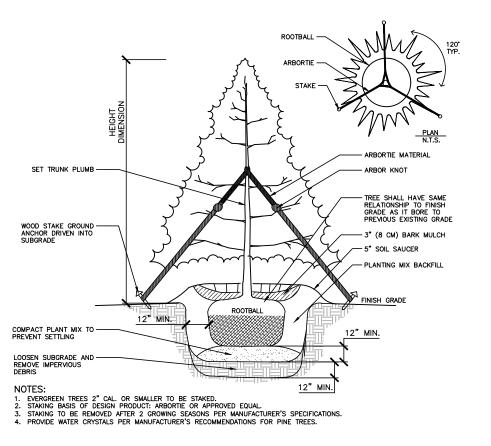


PREFERRED TREE STAKING METHODS (TOWN OF WAKE FOREST TYP. DETAIL)

SCALE: NTS



ALTERNATE TREE STAKING METHOD (TOWN OF WAKE FOREST TYP. DETAIL) SCALE: NTS



06 EVERGREEN TREE PLANTING SCALE: NTS

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF WAKE FOREST THE CITY OF RALEIGH (WATER AND SEWER) AND NCDOT STANDARDS AND SPECIFICATIONS.

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF WAKE FOREST THE CITY OF RALEIGH (WATER AND SEWER) AND NCDOT STANDARDS AND SPECIFICATIONS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT AND THE CITY OF RALEIGH (WHERE APPLICABLE) ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

DATE

These plans have been electronically approved for construction by the Town of Wake Forest
Public Works and Engineering Department. This approval may not be edited once issued.

smeyer
04/25/2024
Public Works/Engineering

These plans have been electronically approved for construction by the Town of Wake Fores
Planning Department. This approval may not be edited once issued.

FINAL DRAWING - RELEASED FOR CONSTRUCTIO

The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

3 cane min, 5 cane max

<u>AREA A</u>

<u>AREA A</u>

121

98 sf 56 sf

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293. C-187

www.mcadamsco.com

_

TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901

NO. DATE

1
2
3
4

REVISIONS

TENDER D. SH

TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

02. 23. 2024

PROJECT NO. RAP-19000
FILENAME RAP19000-SF-LS1
CHECKED BY MDS
DRAWN BY MDS
SCALE NTS

LANDSCAPE DETAILS
S. FRANKLIN STREET

L5.10

ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST MUTCD AND 2018 NCDOT STANDARDS

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL
DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE
TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED
OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING,
SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE
ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME SR 5163 (S. FRANKLIN STREET) DAY AND TIME RESTRICTIONS

MONDAY THROUGH FRIDAY

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

B) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME SR 5163 (S. FRANKLIN STREET) DAY AND TIME RESTRICTIONS

ANYTIME

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME SR 5163 (S. FRANKLIN STREET) DAY AND TIME RESTRICTIONS

MONDAY THROUGH FRIDAY

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

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER
 ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN
 OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY
 STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY
 BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 300 IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE TOWN ENGINEER AND NCDOT DISTRICT ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE 3 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 300 IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON—CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES
 PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN
 UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS
 ON INTERIM LAYERS OF PAVEMENT AS SHOWN ON PLAN SHEETS.
- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- U) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- V) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" NC DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE
APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART
OF THESE PLANS:

STD.NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS — TWO LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS — TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS — PAINTED ISLANDS

MANAGEMENT STRATEGIES

THE INTENT IS TO USE LANE CLOSURES AND TEMPORARY FLAGGING TO CONSTRUCT THE IMPROVEMENTS IN PHASES AS DIRECTED BELOW.

THE EXISTING TRAFFIC PATTERN WILL BE RESTORED FOR PEAK HOUR TRAVEL FOR PHASES 1 AND 2. LANE SHIFTS WITH TEMPORARY MARKING WILL BE UTILIZED FOR MEDIAN CONSTRUCTION FOR PHASE 3 AND LEFT IN PLACE UNTIL FINAL SURFACING.

TRAFFIC TO BE MAINTAINED ON SOUTH FRANKLIN STREET IN BOTH DIRECTIONS AT ALL TIMES WITH THE EXCEPTION OF FLAGGING OPERATIONS AS NECESSARY FOR THE INSTALLATION OF STORM DRAINAGE, UTILITIES OR OTHER INCIDENTAL CONSTRUCTION WHERE LANE CLOSURES CANNOT BE AVOIDED

ACCESS TO EXISTING DRIVEWAYS AND CONNECTING ROADS WILL BE MAINTAINED FOR THE DURATION OF THE PROJECT. CONTRACTOR TO COORDINATE WITH ADJACENT PROPERTY OWNERS.

SEE GENERAL NOTES, PHASING NOTES, AND DETAIL SHEETS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

INDEX OF SHEETS

SHEET NO.	
C10.00	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES AND INDEX OF SHEETS)
C10.01	TRAFFIC CONTROL PHASING & SECTIONS
C10.10	TRAFFIC CONTROL PLAN PHASE 1 STA. 10+00 - STA. 26+00
C10.11	TRAFFIC CONTROL PLAN PHASE 1 STA. 26+00 - STA. 46+00
C10.20	TRAFFIC CONTROL PLAN PHASE 2 STA. 10+00 - STA. 26+00
C10.21	TRAFFIC CONTROL PLAN PHASE 2 STA. 26+00 - STA. 46+00
C10.30	TRAFFIC CONTROL PLAN PHASE 3 STA. 10+00 - STA. 26+00
C10.31	TRAFFIC CONTROL PLAN PHASE 3 STA. 26+00 - STA. 46+00

These plans have been electronically approved for construction by the Town of Wake Forest

Public Works and Engineering Department. This approval may not be edited once issued.

smeyer

04/25/2024

Public Works/Engineering

ALL CONSTRUCTION SHALL BE IN ACCORDANCE
WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT
AND THE CITY OF RALEIGH (WHERE APPLICABLE)
ENGINEERING DESIGN AND CONSTRUCTION STANDARDS

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Planning

FINAL DRAWING - RELEASED FOR CONSTRUCTIO



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PHONE: 919.435.9510

CLIENT

REVISIONS
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2



TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS CONSTRUCTION DRAWINGS

CONSTRUCTION DRAWINGS

0 SOUTH FRANKLIN STREET

WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION
PROJECT NO. RAP19000

PROJECT NO. RAP19000

FILENAME RAP19000-TCP-C1

CHECKED BY DLS

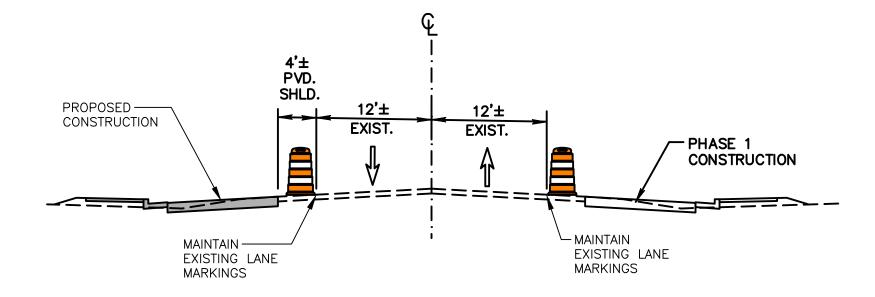
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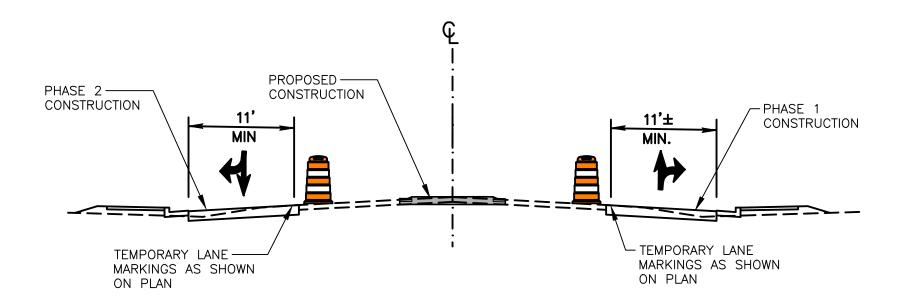
DATE 05/15/2023

TRAFFIC CONTROL OPERATIONS PLAN

PHASE 1 CONSTRUCTION



PHASE 2 CONSTRUCTION



PHASE 3 CONSTRUCTION

PHASE I: (SEE C10.10 AND C10.11 FOR ADDITIONAL PHASING INFORMATION)

PRIOR TO BEGINNING WORK, INSTALL ADVANCED WARNING SIGNS PER NCDOT STANDARD DRAWING. 1101.01 AND AS INDICATED ON PLAN SHEETS. COMPLETE EACH PHASE AND ADJUST SIGNING, AS REQUIRED, PRIOR TO MOVING TO NEXT PHASE.

WHILE MAINTAINING EXISTING TRAFFIC IN BOTH DIRECTIONS AND USING NCDOT STANDARD DRAWING 1101.04 TO CLOSE SHOULDER AND/OR NCDOT STANDARD DRAWING 1101.02 TO CLOSE LANES AS SHOWN ON PLAN SHEETS, CONSTRUCT IMPROVEMENTS ON THE EAST (RIGHT) SIDE OF SOUTH FRANKLIN STREET INCLUDING MILLING, PAVEMENT WIDENING (UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE), DRAÎNAGE, AND GUARDRAIL.

AS NECESSARY, USING NCDOT STANDARD DRAWING 1101.02, SHEET 1 OF 14, UNDER FLAGGER CONTROL, INSTALL DRAINAGE CROSSINGS WHILE MAINTAINING AT LEAST ONE TRAVEL LANE AT ALL TIMES.

PHASE II: (SEE C10.20 AND C10.21 FOR ADDITIONAL PHASING INFORMATION)

ADJUST ADVANCED WARNING SIGNS PER NCDOT STANDARD DRAWING 1101.01 AND AS INDICATED ON PLAN SHEETS.

WHILE MAINTAINING EXISTING TRAFFIC IN BOTH DIRECTIONS AND USING NCDOT STANDARD DRAWING 1101.04 TO CLOSE SHOULDER AND/OR NCDOT STANDARD DRAWING 1101.02 TO CLOSE LANES AS SHOWN ON PLAN SHEETS, CONSTRUCT IMPROVEMENTS ON THE WEST (LEFT) SIDE OF SOUTH FRANKLIN STREET INCLUDING MILLING, PAVEMENT WIDENING (UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE), DRAINAGE, AND GUARDRAIL.

PHASE III: (SEE C10.30 AND C10.31 FOR ADDITIONAL PHASING INFORMATION)

INSTALL PROPOSED TEMPORARY LANE MARKINGS AS SHOWN ON SHEETS C10.30 AND C10.31 AND ADJUST ADVANCED WARNING SIGNS PER NCDOT STANDARD DRAWING 1101.01

STEP 2:

SEE GENERAL NOTES ON NCDOT STANDARD DRAWING 1101.02, PAGE 2 OF 14 AND SPECIFIC REQUIREMENTS AS SHOWN ON SHEETS C10.30 AND C10.31, CLOSE MEDIAN LANES AND CONSTRUCT IMPROVEMENTS IN MEDIAN AREA WHILE MAINTAINING TRAFFIC IN BOTH DIRECTIONS OF SOUTH FRANKLIN STREET.

UPON COMPLETION OF CONSTRUCTION WORK IN PHASE III, USING NCDOT STANDARD DRAWING 1101.02 FOR TEMPORARY LANE CLOSURES, PLACE FINAL SURFACE COURSE ON THE SOUTH FRANKLIN STREET AND FINAL PAVEMENT MARKINGS AS SHOWN ON PAVEMENT MARKING PLANS (C2.10 AND C2.11). REMOVE ALL TRAFFIC CONTROL DEVICES AND SIGNAGE

PHASE IV:

UPON COMPLETION OF CONSTRUCTION WORK IN PHASE III, USING NCDOT STANDARD DRAWING 1101.02 FOR TEMPORARY LANE CLOSURES AND USING NCDOT STANDARD DRAWING 1101.02, SHEET 1 OF 14, UNDER FLAGGER CONTROL AS NECESSARY, PLACE FINAL SURFACE COURSE ON SOUTH FRANKLIN STREET.

INSTALL FINAL PAVEMENT MARKINGS AS SHOWN ON PAVEMENT MARKING PLANS (C2.10 AND C2.11). REMOVE ALL TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAGE.

> Public Works and Engineering Department. This approval may not be edited once issued. Public Works/Engineering

These plans have been electronically approved for construction by the Town of Wake Forest Planning Department. This approval may not be edited once issued. **ENGINEERING DESIGN AND CONSTRUCTION STANDARDS**

FINAL DRAWING - RELEASED FOR CONSTRUCTION

MCADAMS

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CLIENT TOWN OF WAKE FOREST 301 S. BROOKS STREET WAKE FOREST, NC 27587-2901

PATRICK REIDY

PHONE: 919.435.9510

REVISIONS NO. DATE

20744

TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS O SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

ALL CONSTRUCTION SHALL BE IN ACCORDANCE

AND THE CITY OF RALEIGH (WHERE APPLICABLE)

WITH THE CURRENT TOWN OF WAKE FOREST, NCDOT

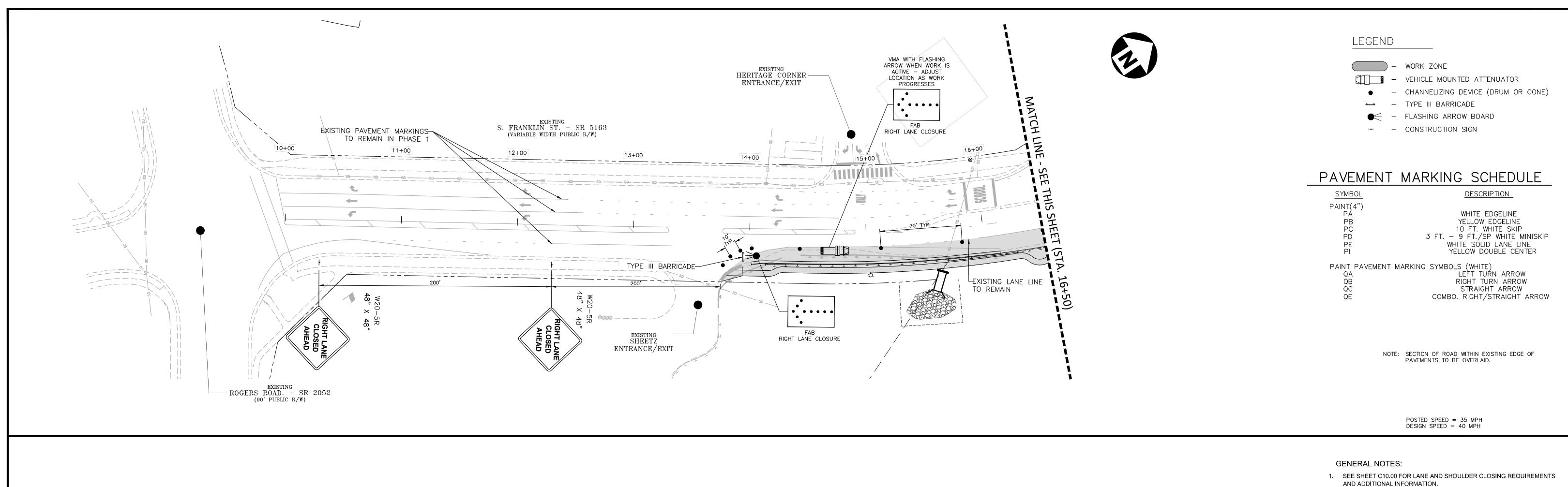
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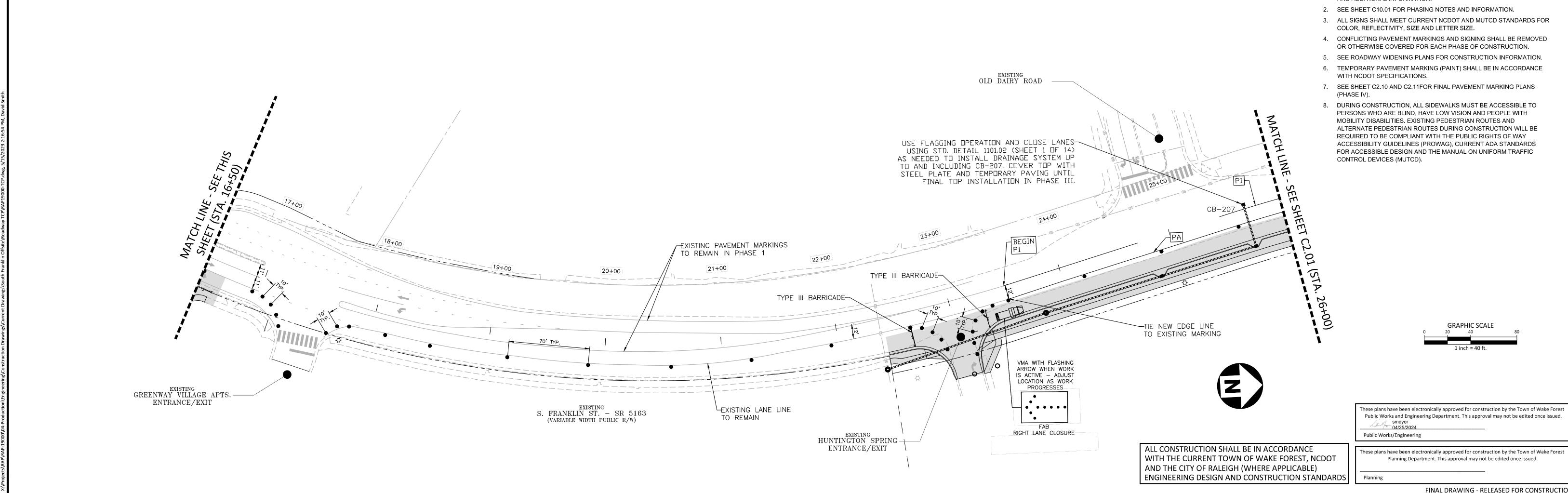
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02/24/2023

TRAFFIC CONTROL PHASING & SECTIONS

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TOWN OF WAKE FOREST
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WAKE FOREST, NC 27587-2901
PATRICK REIDY

PHONE: 919.435.9510

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1
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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

PROJECT NO. RAP19000

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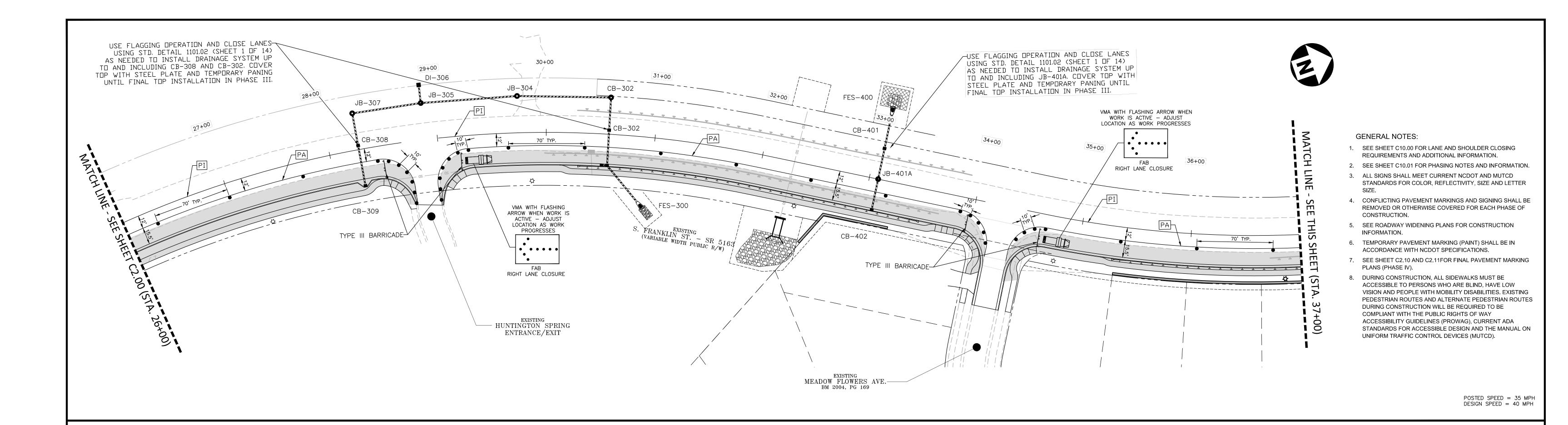
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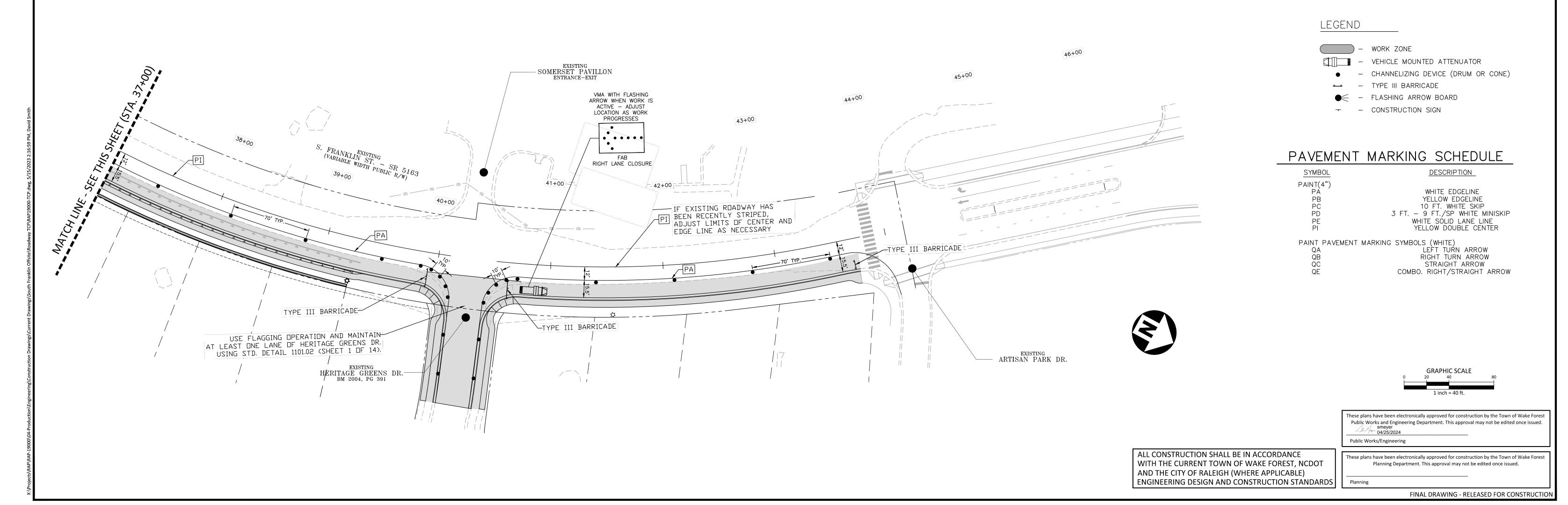
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DATE 05-15-2023

TRAFFIC CONTROL PLAN - PHASE 1
S. FRANKLIN STREET, STA. 10+00 - STA. 26+00







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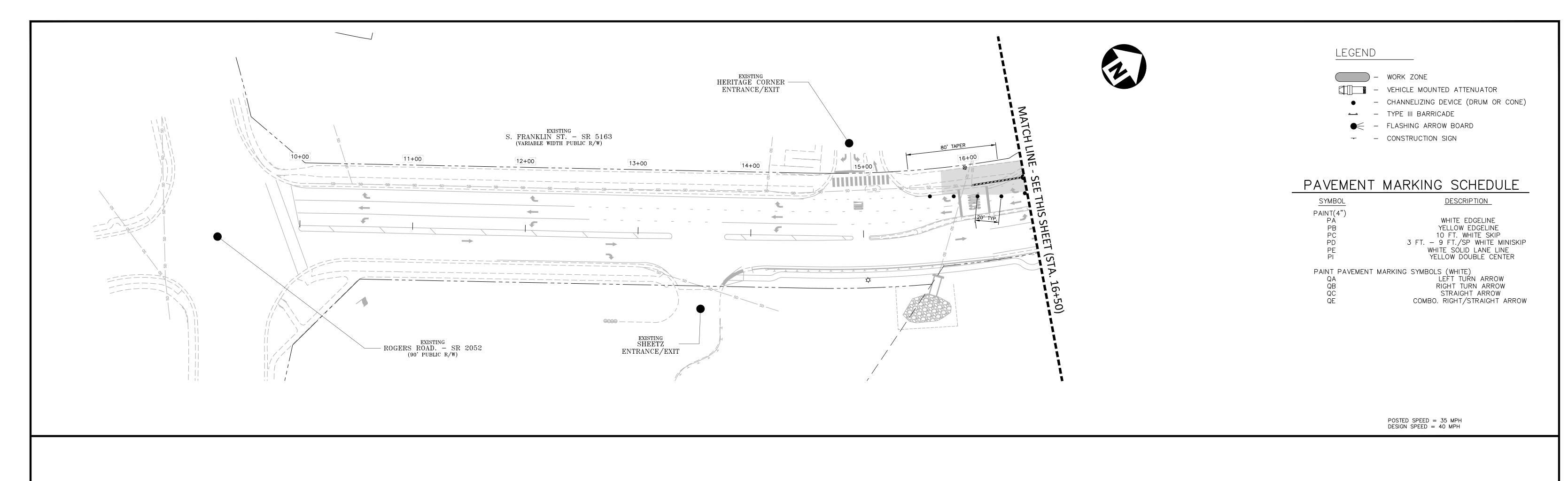
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS CONSTRUCTION DRAWINGS

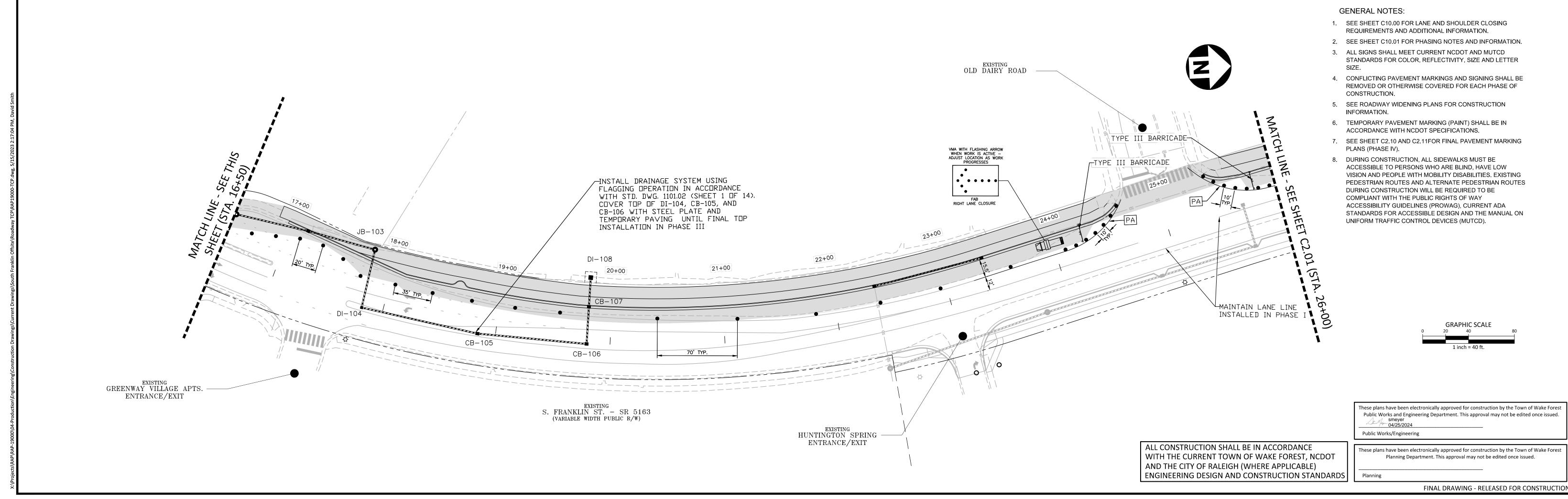
CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION

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TRAFFIC CONTROL PLAN - PHASE 1
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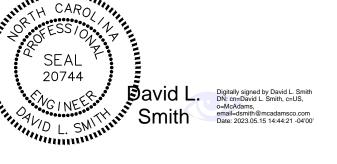
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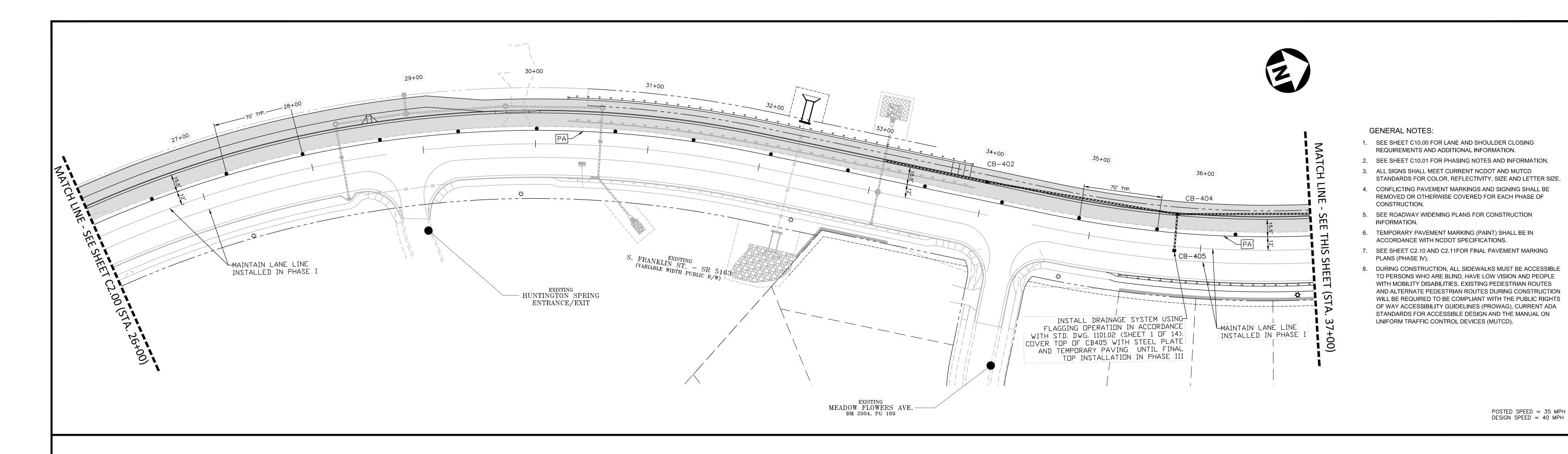
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

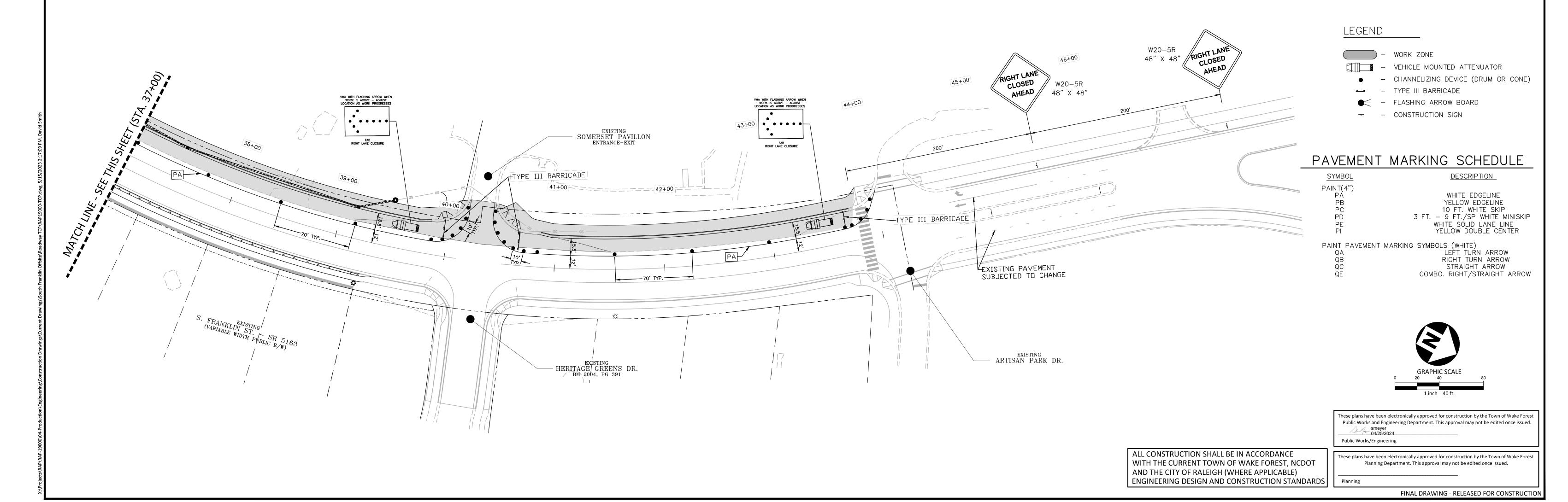
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TRAFFIC CONTROL PLAN - PHASE 2
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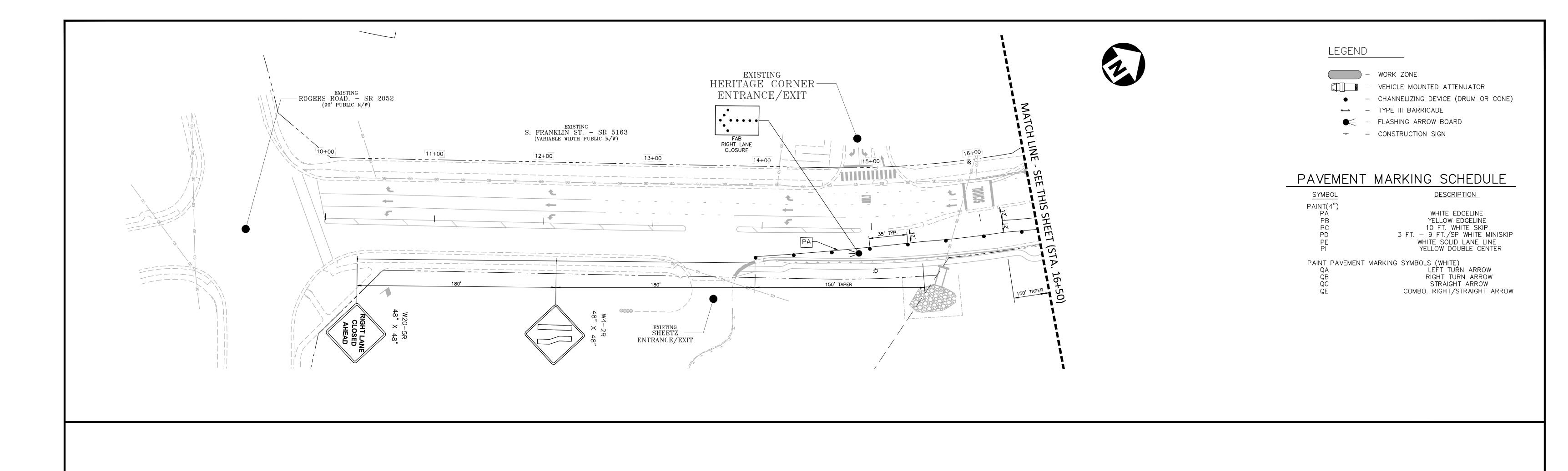
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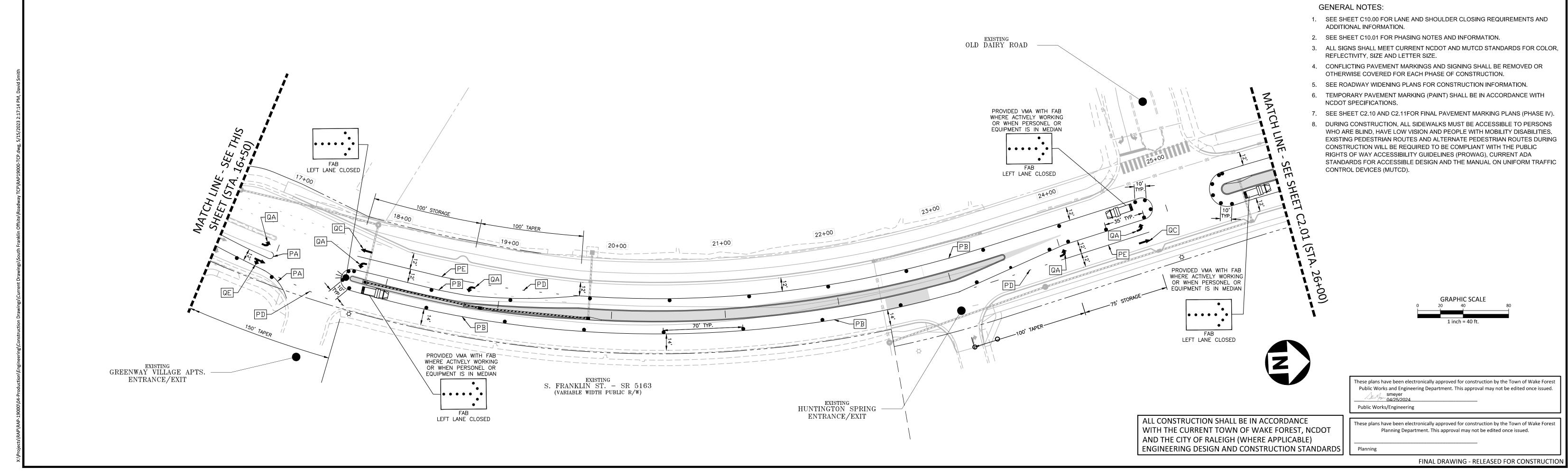
CONSTRUCTION DRAWINGS 0 SOUTH FRANKLIN STREET WAKE FOREST, NORTH CAROLINA

PLAN INFORMATION PROJECT NO. RAP19000

FILENAME RAP19000-TCP CHECKED BY DRAWN BY SCALE 1" = 40' DATE 5/15/2023

TRAFFIC CONTROL PLAN - PHASE 2 S. FRANKLIN STREET, STA. 26+00 - STA. 46+00







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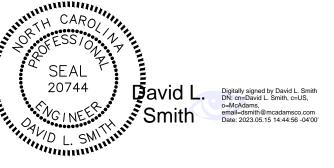
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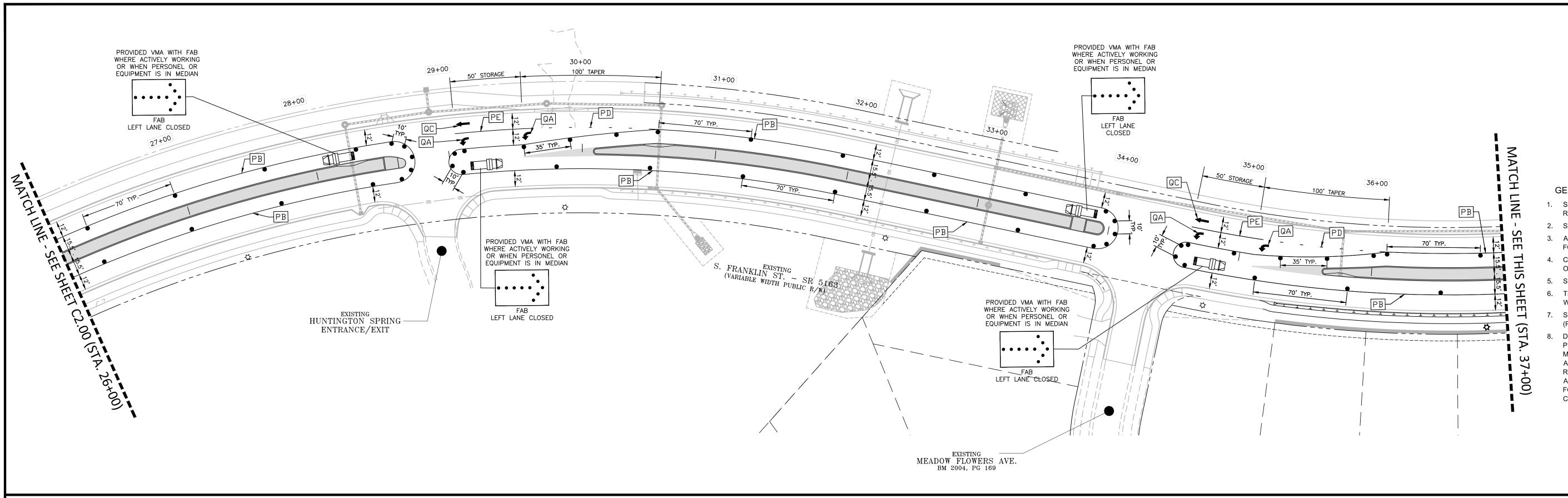
TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

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TRAFFIC CONTROL PLAN - PHASE 3
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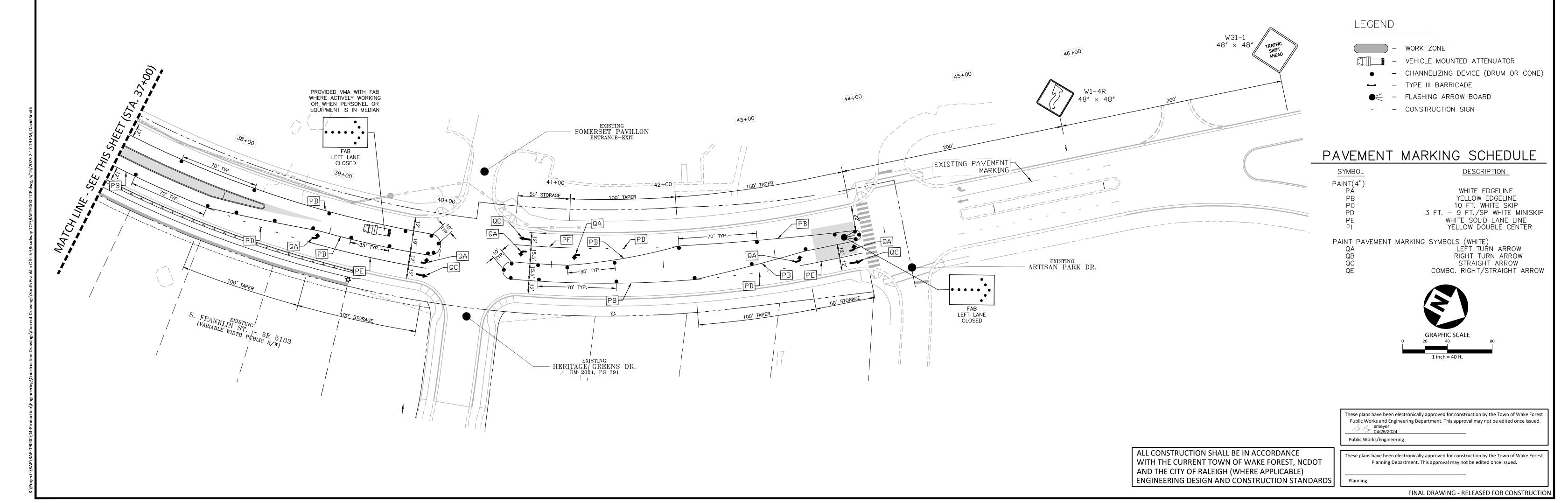




GENERAL NOTES:

- 1. SEE SHEET C10.00 FOR LANE AND SHOULDER CLOSING REQUIREMENTS AND ADDITIONAL INFORMATION.
- 2. SEE SHEET C10.01 FOR PHASING NOTES AND INFORMATION.
- ALL SIGNS SHALL MEET CURRENT NCDOT AND MUTCD STANDARDS FOR COLOR, REFLECTIVITY, SIZE AND LETTER SIZE.
- CONFLICTING PAVEMENT MARKINGS AND SIGNING SHALL BE REMOVED OR OTHERWISE COVERED FOR EACH PHASE OF CONSTRUCTION.
- 5. SEE ROADWAY WIDENING PLANS FOR CONSTRUCTION INFORMATION.
- TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE IN ACCORDANCE WITH NCDOT SPECIFICATIONS.
- 7. SEE SHEET C2.10 AND C2.11FOR FINAL PAVEMENT MARKING PLANS (PHASE IV).
- DURING CONSTRUCTION, ALL SIDEWALKS MUST BE ACCESSIBLE TO PERSONS WHO ARE BLIND, HAVE LOW VISION AND PEOPLE WITH MOBILITY DISABILITIES. EXISTING PEDESTRIAN BOLITES AND
- MOBILITY DISABILITIES. EXISTING PEDESTRIAN ROUTES AND ALTERNATE PEDESTRIAN ROUTES DURING CONSTRUCTION WILL BE REQUIRED TO BE COMPLIANT WITH THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG), CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

POSTED SPEED = 35 MPH DESIGN SPEED = 40 MPH





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TOWN OF WAKE FOREST SOUTH FRANKLIN STREET IMPROVEMENTS

CONSTRUCTION DRAWINGS
O SOUTH FRANKLIN STREET
WAKE FOREST, NORTH CAROLINA

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TRAFFIC CONTROL PLAN - PHASE 3
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