

N:\15\15-0080\150081-Yadkinville EB-5529 Lee St SW\CAD\150081_ENG_C3D14.dwg- Tuesday, April 05, 2016 9:09:53 AM - HOLDER, CP

PROIECT REFERENCE NO.

SHEET NO.

WITHERS & RAVENEL ENGINEERS I PLANNERS I SURVEYORS 7011 Albert Pick Rd., Suite G, Greensboro, North Carolina 27409 tel: 336-605-3009 www.withersravenel.com License No. C-0832

CONSTRUCTION SEQUENCE NOTES:

PROJECT REQUIRES A PRE-CONSTRUCTION CONFERENCE PRIOR TO "NOTICE TO PROCEED" BEING ISSUED.

- INSTALL ALL SILT FENCE AS SHOWN ON PLAN. OBTAIN APPROVAL OF INSTALLATION.
- 2. CLEAR ONLY AS NEEDED TO INSTALL PERIMETER EROSION CONTROL DEVICES.
- 3. INSTALL EROSION CONTROL MEASURES. OBTAIN CERTIFICATE OF COMPLIANCE FROM EROSION CONTROL INSPECTOR. 4. CLEAR & GRUB AREAS WITHIN CONSTRUCTION LIMITS AND BEGIN
- GRADING ACTIVITIES. 5. CONSTRUCT STORM DRAINAGE SYSTEM, CURB AND GUTTER, AND SIDEWALK. MAINTAIN EROSION CONTROL DEVICES AS DRAINAGE
- STRUCTURES ARE INSTALLED AND AREAS ARE BROUGHT UP TO FINISHED GRADE. INSTALL ADDITIONAL DEVICES AS NEEDED. 6. INSTALL TEMPORARY AND PERMANENT SEEDING/MULCHING PER GUIDELINES TO STABILIZE ALL BARE AREAS AND PRODUCE
- 7. UPON SUBSTANTIAL COMPLETION OF WORK, REQUEST FINAL APPROVAL FROM SEDIMENT AND EROSION CONTROL INSPECTOR. UPON APPROVAL. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES.

MAINTENANCE PLAN:

VEGETATIVE COVER.

STD. 876.02 - RIP RAP AT PIPE OUTLETS
MAINTENANCE REQUIREMENTS - INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

STD. 1605.01 - TEMPORARY SILT FENCE MAINTENANCE REQUIREMENTS - INSPECT SILT FENCE AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF THE SILT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

STD. 1606.01 - SPECIAL SEDIMENT CONTROL FENCE MAINTENANCE REQUIREMENTS - INSPECT SPECIAL SEDIMENT CONTROL FENCE AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

STD. 1632.03 - ROCK INLET SEDIMENT TRAP, TYPE C MAINTENANCE REQUIREMENTS - INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RANFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

STD. 1633.01 - TEMPORARY ROCK SILT CHECK, TYPE A MAINTENANCE REQUIREMENTS - INSPECT ROCK SILT CHECKS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT, STRAW, LIMBS OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN SILT CHECKS. ADDITIONAL MEASURES CAN BE TAKEN, SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL. REMOVE SEDIMENT ACCUMULATED BEHIND THE SILT CHECKS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE SILT CHECK AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE SILT CHECK. ADD STONE TO SILT CHECKS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS, SPECIFICATIONS, AND DETAILS, LATEST REVISION.
- 2. SILT FENCING AND SPECIAL SEDIMENT FENCE SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY CONSTRUCTION ACTIVITY.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES DURING THE LIFE OF THE PROJECT UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE NCDOT
- 4. CONTRACTOR SHALL CONSTRUCT DIVERSION DITCHES AS NECESSARY TO ENSURE THAT ALL SEDIMENT IS DIRECTED INTO EROSION CONTROL MEASURES.
- 5. ALL STREETS ADJACENT TO THIS PROJECT MUST REMAIN CLEAN AT ALL TIMES OR A WASH STATION MAY BE REQUIRED.
- . TOPSOIL STOCKPILING SHALL OCCUR ON SITE AS APPROVED BY NCDOT OR WASTED OFFSITE.
- 7. THE SILT FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED.
- 8. DRAINAGE FROM THIS SITE IS TO A NORTH DEEP CREEK TRIBUTARY 2A AND HAW BRANCH (YADKIN - PEE DEE BASIN).
- 9. THIS SITE HAS NO FEMA MAPPED FLOOD PLAINS AS REFERENCED BY FIRM MAP NO. 3710580700J DATED 5-18-2009.
- 10. NO STREAM OR WETLAND AREAS HAVE BEEN IDENTIFIED WITHIN THE LIMITS OF THIS PROJECT.
- II. EXISTING TOPOGRAPHY TAKEN FROM FIELD SURVEY BY MULKEY, INC.

SEED AND SOD BED PREPARATION:

- I. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- 2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- 3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES REASONABLY SMOOTH AND UNIFORM.
- 4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).
- 5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- 6. SOD A FRESHLY PREPARED SODBED.
- 7. SEED A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- 8. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- 9. INSPECT ALL SEEDED AND SODDED AREAS AND MAKE NECESSARY REPAIRS OR RESEED/RESOD WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 70% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- 10. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.
- * APPLY: AGRICULTURAL LIMESTONE 2 TONS/ACRE (34 TONS/ACRE ON CLAY SOILS) FERTILIZER - 1,000 LBS_/ACRE - 10-10-10 SUPERPHOSPHATE - 500 LBS./ACRE - 20% MULCH - 2 TONS/ACRE - SMALL GRAIN STRAW ANCHOR - ASPHALT EMULSION @ 300 GAL. ACRE

IFCEND

	LEGEND	
Std. #	Description	Symbol
876.02	Rip Rap at Pipe Outlets	
1605.01	Temporary Silt Fence	SF
1606.01	Special Sediment Control Fence	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1632.03	Rock Inlet Sediment Trap Type C	
1633.01	Temporary Rock Silt Check, Type A	

STABILIZATION REQUIREMENTS:

STABILIZATION FOR THIS PROJECT SHALL COMPLY WITH THE TIME FRAME GUIDELINES AS SPECIFIED BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY. TEMPORARY OR PERMANENT GROUND COVER STABILIZATION SHALL OCCUR WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY, WITH THE FOLLOWING EXCEPTIONS IN WHICH TEMPORARY OR PERMANENT GROUND COVER SHALL BE PROVIDED IN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY:

- SLOPES BETWEEN 2:1 AND 3:1, WITH A SLOPE LENGTH OF 10 FT. OR LESS
- SLOPES 3:1 OR FLATTER, WITH A SLOPE OF LENGTH OF 50 FT. OR LESS
- SLOPES 4:1 OR FLATTER

THE STABILIZATION TIMEFRAME FOR HIGH QUALITY WATER (HQW) ZONES SHALL BE 7 CALENDAR DAYS WITH NO EXCEPTIONS FOR SLOPE GRADES OR LENGTHS. HIGH QUALITY WATER ZONES (HQW) ZONES ARE DEFINED BY NORTH CAROLINA ADMINISTRATIVE CODE 15A NCAC 04A.0105 (25). TEMPORARY AND PERMANENT GROUND COVER STABILIZATION SHALL BE ACHIEVED IN ACCORDANCE WITH THE PROVISIONS IN THIS CONTRACT AND AS DIRECTED.

SEEDING AND MULCHING:

THE KINDS OF SEED AND FERTILIZER, AND THE RATES OF APPLICATION OF SEED, FERTILIZER. AND LIMESTONE, SHALL BE AS STATED BELOW. DURING PERIODS OF OVERLAPPING DATES. THE KIND OF SEED TO BE USED SHALL BE DETERMINED. ALL RATES ARE IN POUNDS PER ACRE.

FERTILIZER SHALL BE THE SAME ANALYSIS AS SPECIFIED FOR SEEDING AND MULCHING AND APPLIED AT THE RATE OF 400 POUNDS AND SEEDED AT THE RATE OF 50 POUNDS PER ACRE. GERMAN MILLET, OR BROWNTOP MILLET SHALL BE USED IN SUMMER MONTHS AND RYE GRAIN DURING THE REMAINDER OF THE YEAR. THE ENGINEER WILL DETERMINE THE EXACT DATES FOR USING EACH KIND OF SEED.

FERTILIZER TOPDRESSING

FERTILIZER USED FOR TOPDRESSING SHALL BE 16-8-8 GRADE AND SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. A DIFFERENT ANALYSIS OF FERTILIZER MAY BE USED PROVIDED THE 2-1-1 RATIO IS MAINTAINED AND THE RATE OF APPLICATION ADJUSTED TO PROVIDE THE SAME AMOUNT OF PLANT FOOD AS 16-8-8 ANALYSIS AND AS DIRECTED.

SUPPLEMENTAL SEEDING:

THE KINDS OF SEED AND PROPORTIONS SHALL BE THE SAME AS SPECIFIED FOR SEEDING AND MULCHING, AND THE RATE OF APPLICATION MAY VARY FROM 25# TO 75# PER ACRE. THE ACTUAL RATE PER ACRE WILL BE DETERMINED PRIOR TO THE TIME OF TOPDRESSING AND THE CONTRACTOR WILL BE NOTIFIED IN WRITING OF THE RATE PER ACRE, TOTAL QUANTITY NEEDED, AND AREAS ON WHICH TO APPLY THE SUPPLEMENTAL SEED. MINIMUM TILLAGE EQUIPMENT, CONSISTING OF A SOD SEEDER SHALL BE USED FOR INCORPORATING SEED INTO THE SOIL AS TO PREVENT DISTURBANCE OF EXISTING VEGETATION. A CLODBUSTER (BALL AND CHAIN) MAY BE USED WHERE DEGREE OF SLOPE PREVENTS THE USE OF A SOD SEEDER.

THE MINIMUM MOWING HEIGHT ON THIS PROJECT SHALL BE SIX INCHES.

- I. ALL SOD TO BE FESCUE.
- 2. ALL SOD SHALL BE CUT INTO RECTANGLES, NOT SQUARES, AND INSTALLED ACCORDING TO THE STANDARD SPECIFICATIONS, SECTION 1664.
- 3. SOD SHALL BE APPROVED BY THE ENGINEER OR DESIGNATED INSPECTOR PRIOR TO PLACEMENT.

SEEDING SCHEDULE

THE KINDS OF SEED AND FERTILIZER, AND THE RATES OF APPLICATION OF SEED, FERTILIZER, AND LIMESTONE, SHALL BE AS STATED BELOW. DURING PERIODS OF OVERLAPPING DATES, THE KIND OF SEED TO BE USED SHALL BE DETERMINED. ALL RATES ARE IN POUNDS PER ACRE

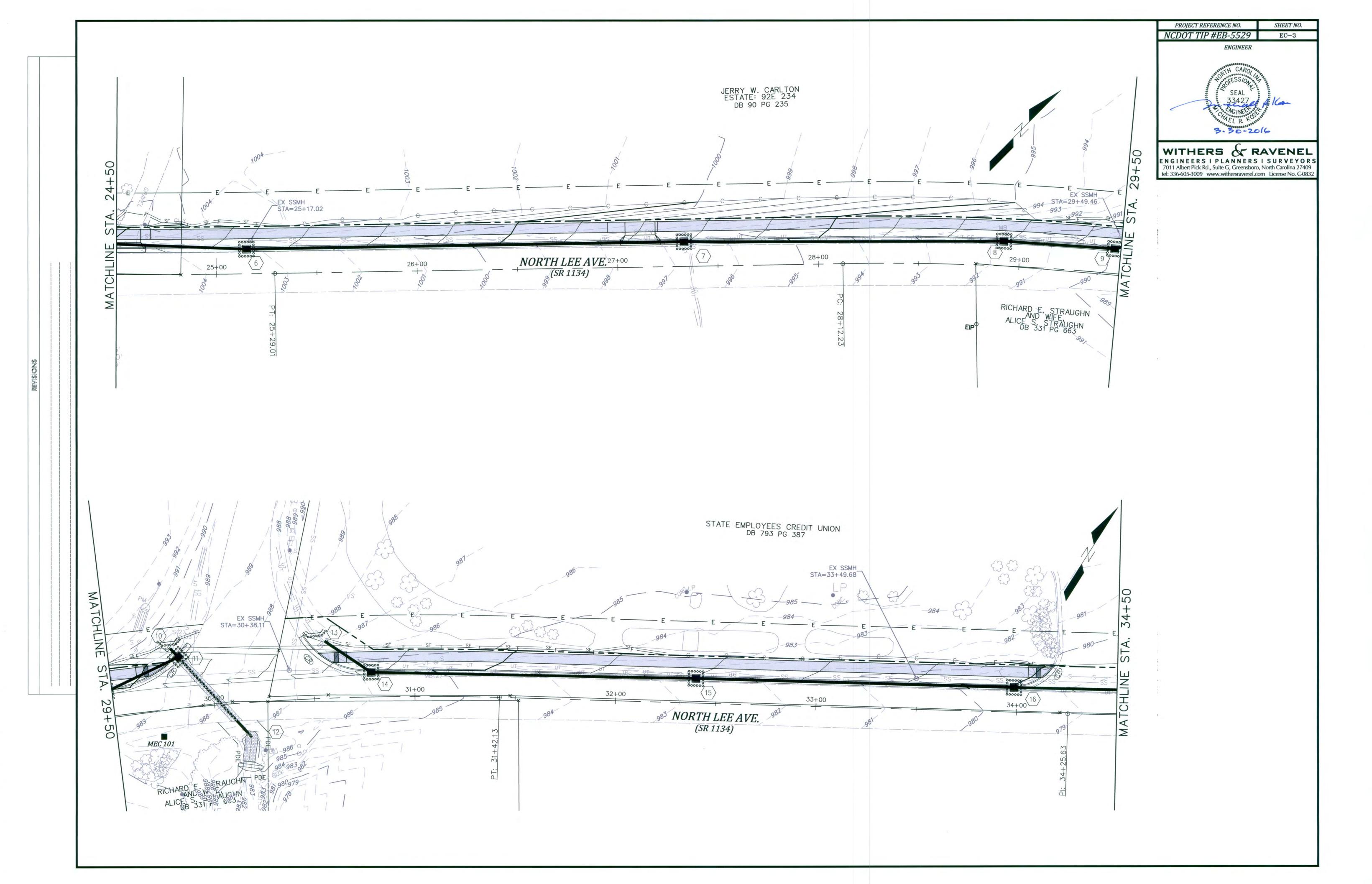
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	SHOULDERS AND MEDIAN AREAS	
DATE	TYPE	PLANTING RATE
AUG 1 -JUN 1	KENTUCKEY BLUEGRASS	20 LBS/ACRE
	HARD FESCUE	75 LBS/ACRE
	RYE GRAIN	25
LBS/ACRE		
	FERTILIZER	500 LBS/ACRE
	LIMESTONE	4,000 LBS/ACRE
MAY 1 -SEP 1	KENTUCKEY BLUEGRASS	20 LBS/ACRE
	HARD FESCUE	75 LBS/ACRE
	GERMAN OR BROWNTOP MILLET	10 LBS/ACRE
	FERTILIZER	500 LBS/ACRE
	LIMESTONE	4,000 LBS/ACRE
1		

AREAS BEYON	ID MOWING PATTERN, WASTE AND	BORROW AREAS
DATE	TYPE	PLANTING RATE
AUG 1 -JUN 1	TALL FESCUE	100 LBS/ACRE
	KENTUCKEY BLUEGRASS	15 LBS/ACRE
	HARD FESCUE	30 LBS/ACRE
	RYE GRAIN	25
LBS/ACRE		
	FERTILIZER	500 LBS/ACRE
	LIMESTONE	4,000 LBS/ACRE
MAY 1 -SEP 1	TALL FESCUE	100 LBS/ACRE
	KENTUCKEY BLUEGRASS	15 LBS/ACRE
	HARD FESCUE	30 LBS/ACRE
	RYE GRAIN	10
LBS/ACRE		
	FERTILIZER	500 LBS/ACRE
	LIMESTONE	4,000 LBS/ACRE

ON CUT AND FILL SLOPES 2:1 OR STEEPER ADD 20# SERICEA LESPEDEZA JANUARY 1 - DECEMBER 31.

FERTILIZER SHALL BE 10-20-20 ANALYSIS. A DIFFERENT ANALYSIS OF FERTILIZER MAY BE USED PROVIDED THE 1-2-2 RATIO IS MAINTAINED AND THE RATE OF APPLICATION ADJUSTED TO PROVIDE THE SAME AMOUNT OF PLANT FOOD AS A 10-20-20 ANALYSIS AND AS DIRECTED.

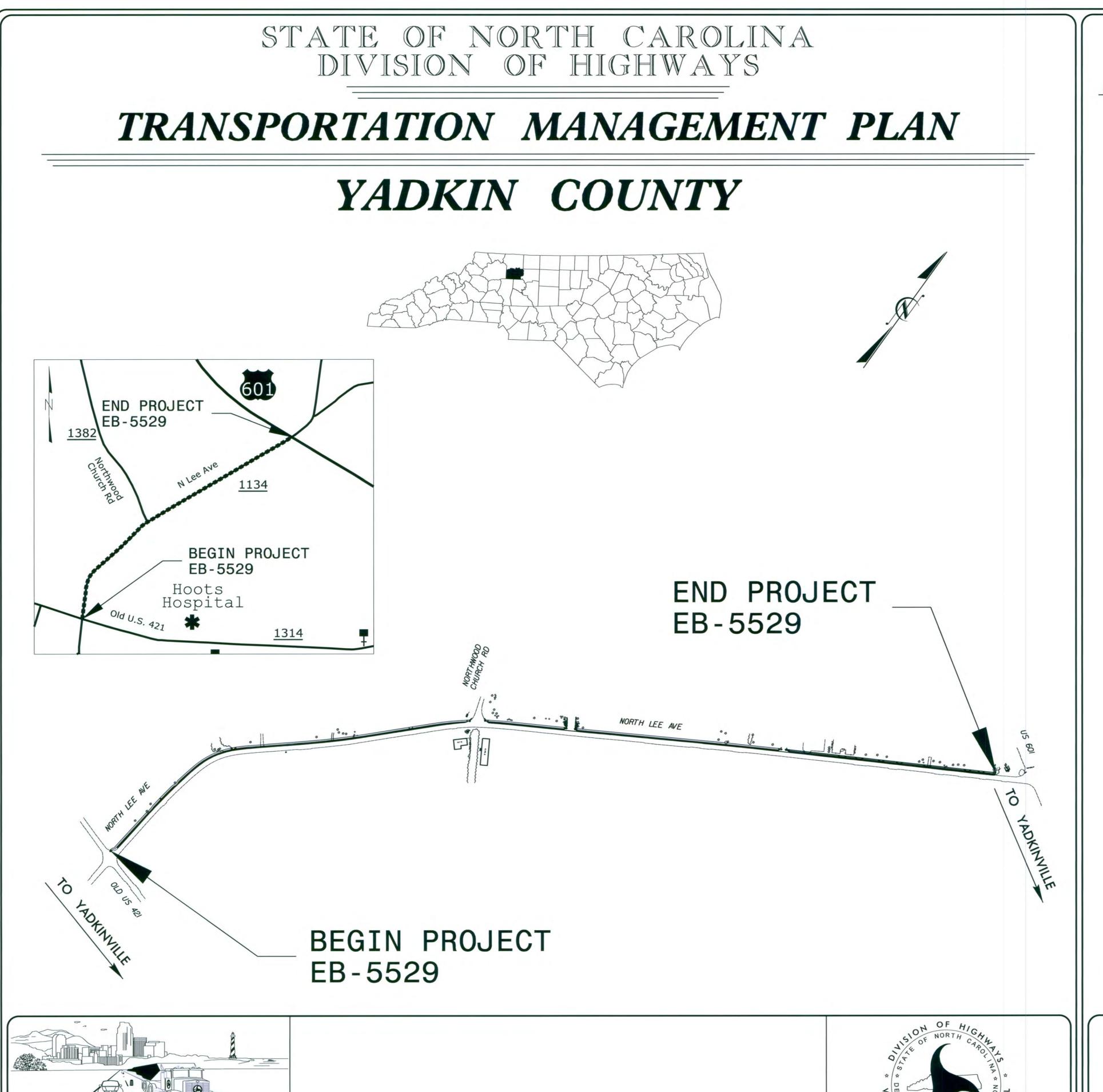
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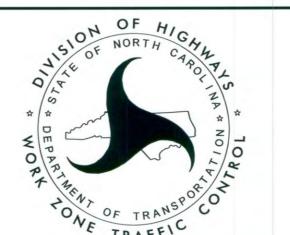


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INDEX OF SHEETS

SHEET NO.

TMP-2

TITLE

TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS TMP-1

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS AND LEGEND TMP-1A

TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES AND PHASING NOTES)

TMP-3 TEMPORARY TRAFFIC CONTROL DETAIL

SHEET NO.

52

PLANS PREPARED BY:



APPROVED:

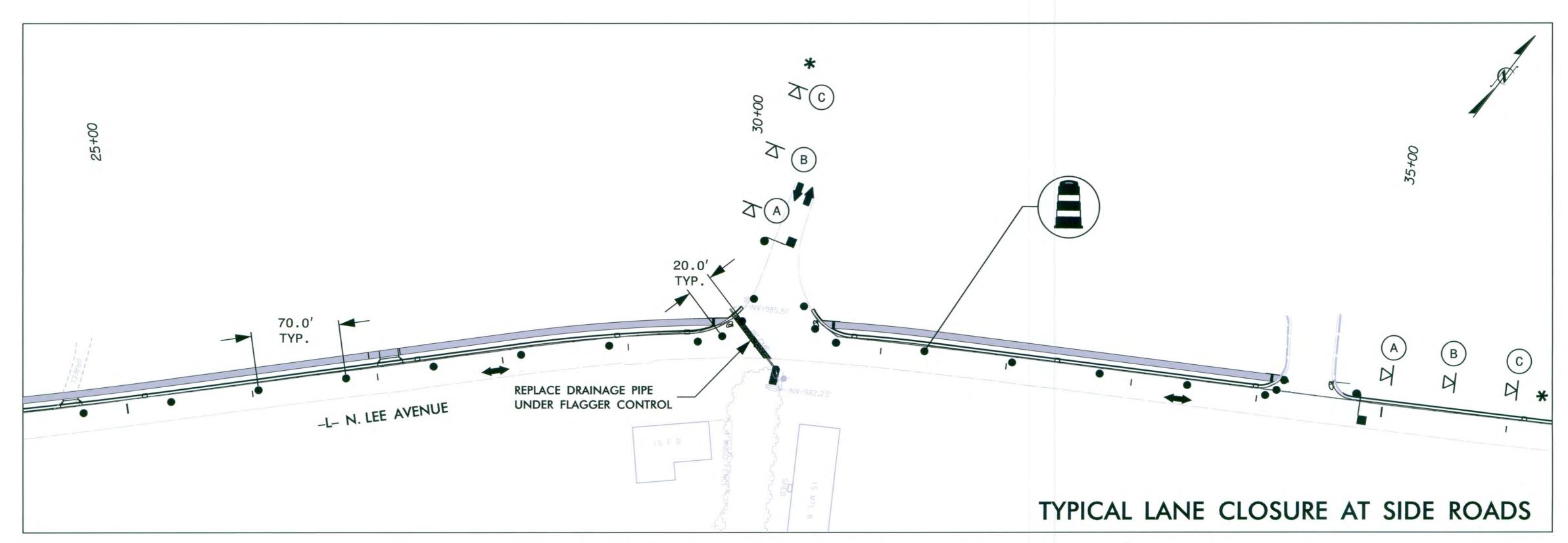
DAVID L. SMITH, P.E. TRAFFIC CONTROL PROJECT MANAGER

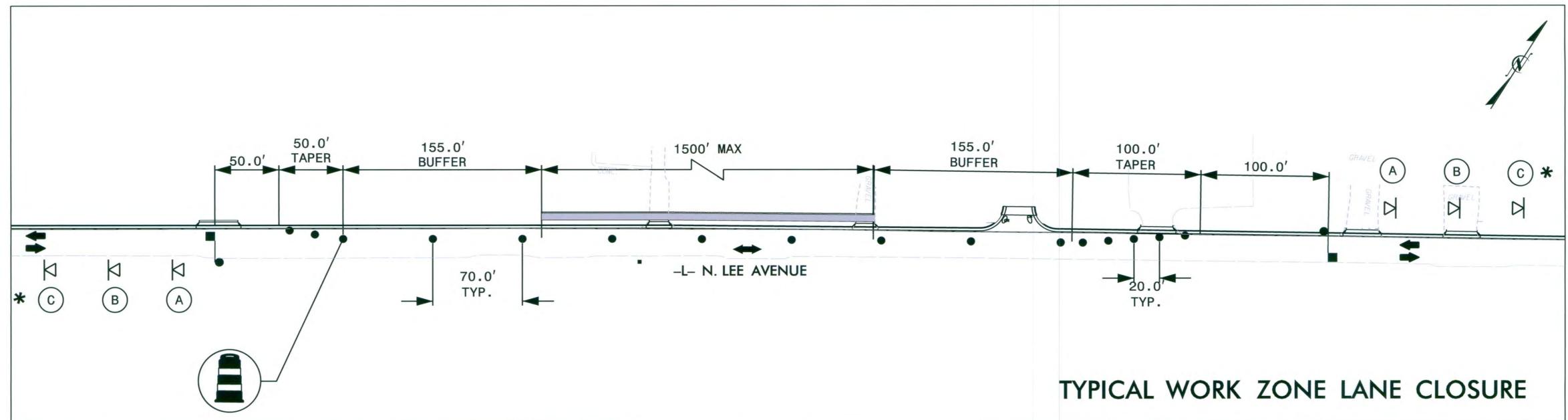
> DAVID A. JORDAN, EI TRAFFIC CONTROL PROJECT ENGINEER

DATE:_ SEAL

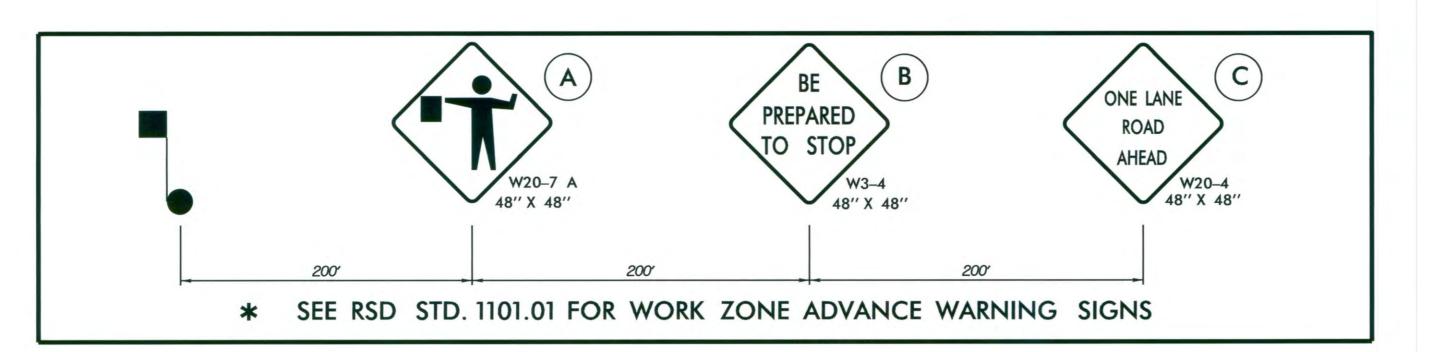
WORK ZONE SAFETY & MOBILITY "from the MOUNTAINS to the COAST"

PROJ. REFERENCE NO. SHEET NO. EB-5529 TMP-3





CONSTRUCTION AREA



NOTES: 1. CONTRACTOR MAY USE PILOT CAR WHEN CONDITIONS WARRANT. REFER TO RSD 1101.02 SHEET 1 OF 15 FOR PILOT CAR OPERATIONS



TRAFFIC CONTROL DETAIL

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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. 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 ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS

LEGEND



GENERAL

DIRECTION OF TRAFFIC FLOW

DIRECTION OF PEDESTRIAN TRAFFIC FLOW

----- EXIST. PVMT.

NORTH ARROW

---- PROPOSED PVMT.

TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

SIGNALS

EXISTING

T E TEMPORARY

PAVEMENT MARKINGS

——EXISTING LINES
——TEMPORARY LINES

TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

CONE

DRUM SKINNY DRUM S TUBULAR MARKER

TEMPORARY CRASH CUSHION

FLASHING ARROW BOARD

FLAGGER

LAW ENFORCEMENT

TRUCK MOUNTED ATTENUATOR (TMA)

CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

PORTABLE SIGN

── STATIONARY SIGN

STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

CRYSTAL/CRYSTAL

CRYSTAL/RED

◆ YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

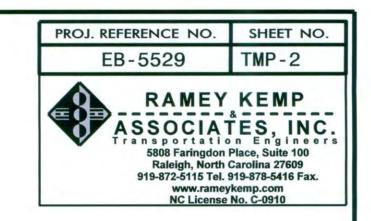
PAVEMENT MARKING SYMBOLS

SEAL SEAL 20744



ROADWAY STANDARD DRAWINGS & LEGEND

Useridsmith



GENERAL NOTES / LOCAL NOTES

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

DAY AND TIME RESTRICTIONS
MONDAY- FRIDAY
7:00 AM - 9:00 AM

-L- N. LEE AVENUE

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS SUCH AS NEW YEARS, EASTER, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING, AND CHRISTMAS. DO NOT CLOSE OR NARROW TRAVEL LANES BETWEEN 7:00 AM THE DAY BEFORE THE HOLIDAY TO 6:00 PM THE DAY

ROAD NAME

-L- N. LEE AVENUE

AFTER THE HOLIDAY.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.
- E) 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.
- F) 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.
- G) 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.
- H) DO NOT INSTALL MORE THAN 2000 FT OF LANE CLOSURE ON N. LEE AVENUE MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

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) 200 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) 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.

TRAFFIC CONTROL DEVICES

- N) 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.
- O) 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.
- P) 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.).

PHASING NOTES

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVEWAYS AS DIRECTED BY THE ENGINEER.

CONSTRUCTION SHALL INCLUDE TEMPORARY AND PERMANENT WEDGING BETWEEN EXISTING, TEMPORARY, AND PROPOSED PAVEMENT TO MAINTAIN POSITIVE DRAINAGE AND PROVIDE SMOOTH TRANSITIONS TO EXISTING LANES.

THE CONTRACTOR MAY USE A PILOT CAR WHEN CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER. REFER TO STD DETAIL 1102.01 SHEET 1 OF 15 FOR PILOT CAR REQUIREMENTS.

PHASE 1 (SEE TMP-3)

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS. SEE RSD 1101.01.

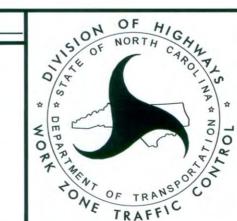
STEP 2: USING RSD 1101.02, SHEET 1 OF 15, UNDER FLAGGER CONTROL, CONSTRUCT SIDEWALK, CURB & GUTTER, AND DRAINAGE IMPROVEMENTS ON -L- (N. LEE AVENUE) UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE FOR THE FOLLOWING SECTIONS (STATION RANGES):

SECTION 1 - BEGINNING OF PROJECT TO STA. 32+00 +/-SECTION 2 - STA. 32+00 +/- TO END OF PROJECT

NOTE: THE CONTRACTOR MAY COMPLETE WORK IN STEP 2 ON EACH SECTION IN ANY ORDER, BUT LANE CLOSURE SHALL ONLY OCCUR IN ONE SECTION AT A TIME. THE CONTRACTOR SHALL COMPLETE WORK IN STEP 2 TO ALLOW CONTINUOUS TWO WAY TRAFFIC PRIOR TO MOVING WORK AREA TO ADJACENT SECTIONS.

PHASE 2: USING RSD 1101.02, SHEET 1 OF 15, UNDER FLAGGER CONTROL, CONSTRUCT FINAL SURFACE COURSE AND PAVEMENT MARKINGS, REMOVE TRAFFIC CONTROL DEVICES, AND OPEN ALL ROADS TO TRAFFIC.

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TRANSPORTATION OPERATIONS PLAN

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