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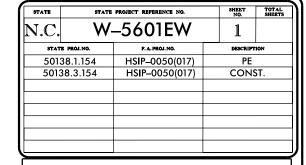
See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols See Sheet 1C-1 For Survey Control Sheet (50) Farms SR 3718 SR 2726 PROJECT LOCATION (42) (42) VICINITY MAP BEGIN T.I.P. PROJECT W-5601EW -L-STA.12+20.44

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

WAKE COUNTY

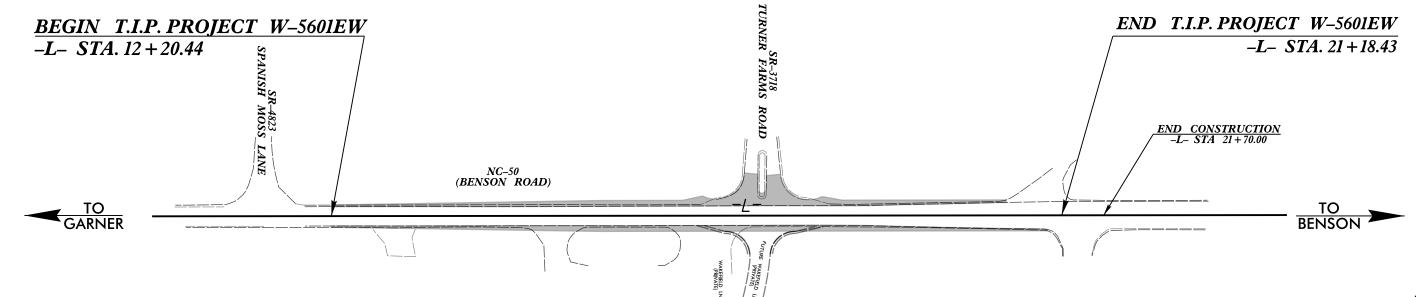
LOCATION: NC 50 (BENSON ROAD) AT SR 3718 (TURNER FARMS ROAD/WAKEFIELD LANE)

TYPE OF WORK: GRADING AND PAVING



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED







5601EW

Z

PROJEC

IIIP

GRAPHIC SCALES PROFILE (HORIZONTAL) PROFILE (VERTICAL)

DESIGN DATA

ADT 2016 = 17,000TTST = 1% DUAL = 3%V = 50 MPH

FUNCTIONAL CLASS= MINOR ARTERIAL

PROJECT LENGTH

Length Roadway T.I.P. Project W-5601EW = 0.17 Miles

Prepared in the Office of: **DIVISION OF HIGHWAYS**

2612 N. Duke St., Durham, NC, 27704

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE: APRIL 25, 2018

ROGER C. KLUCKMAN, P.E. PROIECT ENGINEER

THOMAS R. MEADOWS
PROJECT DESIGN ENGINEER



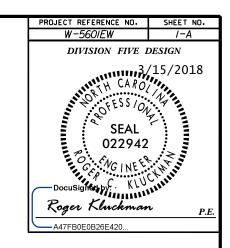
Roger Kluckman

FIFTH DIVISION JOSEPH R. HOPKINS, P.E. DIVISION ENGINEER

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA







INDEX OF SHEETS

SHEET NUMBER SHEET

TITLE SHEET

1-B

1C-1

INDEX OF SHEETS, GENERAL NOTES, AND LIST OF 1-A

> STANDARD DRAWINGS CONVENTIONAL SYMBOLS SURVEY CONTROL SHEET

PAVEMENT SCHEDULE AND TYPICAL SECTIONS 2A-1

PLAN SHEET 4 PROFILE SHEET

TMP-1 THRU TMP-2 TRANSPORTATION MANAGEMENT PLANS

PMP-1 THRU PMP-2 PAVEMENT MARKING PLANS EC-4 **EROSION CONTROL PLAN**

X-1 THRU X-3 **CROSS-SECTIONS**

2018 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2018

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - 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

DIVISION 2 - EARTHWORK

200.03 Method of Clearing - Method II 225.02 Guide for Grading Subgrade - Secondary and Local

DIVISION 5 - SUBGRADE, BASES AND SHOULDERS

560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I

DIVISION 8 - INCIDENTALS

846.01 Concrete Curb, Gutter and Curb & Gutter

848.04 Street Turnout

GENERAL NOTES:

GENERAL NOTES:

2018 SPECIFICATIONS EFFECTIVE: 01-16-2018

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.

SHOULDER CONSTRUCTION:

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

SIDE ROADS:

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

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE AT&T, DUKE ENERGY, TIME WARNER CABLE, AND AQUA NORTH CAROLINA.

STATE OF NORTH CA	CONVENTION	۸ı
	STATE OF NORTH	\mathbb{C}

RAILROADS:

Standard Gauge

RR Signal Milepost

RR Abandoned RR Dismantled

Switch -

STATE OF	NORTH	CAROLINA, DIVISION	\mathbb{OF}	HIGHWAYS
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CSX TRANSPORTATION

lacktriangle

 \boxtimes

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U/G Telephone Conduit LOS D (S.U.E.*)

U/G Fiber Optics Cable LOS B (S.U.E.*) —

U/G Fiber Optics Cable LOS D (S.U.E.*)—

U/G Fiber Optics Cable LOS C (S.U.E.*)-

Note: Not to Scale

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point

New Right of Way Line with Pin and Cap-

Concrete or Granite R/W Marker New Control of Access Line with Concrete C/A Marker **Existing Control of Access** New Control of Access **Existing Easement Line**

New Temporary Construction Easement New Temporary Drainage Easement New Permanent Drainage Easement

New Permanent Drainage / Utility Easement

ROADS AND RELATED FEATURES:

New Permanent Utility Easement New Temporary Utility Easement New Aerial Utility Easement

Existing Edge of Pavement

Proposed Slope Stakes Cut Proposed Slope Stakes Fill Proposed Curb Ramp Existing Metal Guardrail Proposed Guardrail Existing Cable Guiderail

Proposed Cable Guiderail

Equality Symbol

Single Tree

Single Shrub

Pavement Removal

VEGETATION:

Existing Curb

Primary Horiz and Vert Control Point Exist Permanent Easment Pin and Cap New Permanent Easement Pin and Cap —

Primary Horiz Control Point

Existing Right of Way Marker Existing Right of Way Line New Right of Way Line

New Right of Way Line with

Vertical Benchmark

	1 77C		V-560IEW
NA, DIVISION OF HIGHWA			
AN SHEET SYMBO	JL5	WATER.	
I.U.E. = Subsurface Utility Engineering		WATER: Water Manhole	—
Hedge —		Water Meter	-
Woods Line		Water Valve	
Orchard —		Water Valve ————————————————————————————————————	
Vineyard ————————————————————————————————————	Vineyard		
EXISTING STRUCTURES:		U/G Water Line LOS B (S.U.E*)	
MAJOR:		U/G Water Line LOS C (S.U.E*)	
Bridge, Tunnel or Box Culvert —	CONC	U/G Water Line LOS D (S.U.E*)	
Bridge Wing Wall, Head Wall and End Wall		Above Ground Water Line	A/G Widler
MINOR:	, (TV:	
Head and End Wall —	CONC HW	TV Pedestal	
Pipe Culvert —		TV Tower —	$ \otimes$
Footbridge —		U/G TV Cable Hand Hole —————	— Нн
-		U/G TV Cable LOS B (S.U.E.*)	
Drainage Box: Catch Basin, DI or JB		U/G TV Cable LOS C (S.U.E.*)	
Paved Ditch Gutter——————		U/G TV Cable LOS D (S.U.E.*)	
Storm Sewer Manhole —————		U/G Fiber Optic Cable LOS B (S.U.E.*)	
Storm Sewer —	s	U/G Fiber Optic Cable LOS C (S.U.E.*)	
UTILITIES:		U/G Fiber Optic Cable LOS D (S.U.E.*)	
POWER:			
Existing Power Pole —	. 4	GAS:	
Proposed Power Pole —	6	Gas Valve	
Existing Joint Use Pole		Gas Meter —	
Proposed Joint Use Pole		U/G Gas Line LOS B (S.U.E.*)	
	-	U/G Gas Line LOS C (S.U.E.*)	
Power Manhole		U/G Gas Line LOS D (S.U.E.*)	c
Power Line Tower		Above Ground Gas Line	A/G Gas
Power Transformer —		SANITARY SEWER:	
U/G Power Cable Hand Hole			
H-Frame Pole	•—•	Sanitary Sewer Manhole	—
U/G Power Line LOS B (S.U.E.*)		Sanitary Sewer Cleanout	
U/G Power Line LOS C (S.U.E.*)		U/G Sanitary Sewer Line	
U/G Power Line LOS D (S.U.E.*)	Р	Above Ground Sanitary Sewer	
TELEPHONE:		SS Forced Main Line LOS B (S.U.E.*) ——	
		SS Forced Main Line LOS C (S.U.E.*) ——	
Existing Telephone Pole	- 	SS Forced Main Line LOS D (S.U.E.*)——	FSS
Proposed Telephone Pole ————————————————————————————————————	-	MISCELLANICOLIS	
Telephone Manhole		MISCELLANEOUS:	_
Telephone Pedestal ————————————————————————————————————		Utility Pole	
Telephone Cell Tower ————————————————————————————————————	.,♣,	Utility Pole with Base —	
U/G Telephone Cable Hand Hole ————	HH	Utility Located Object —	
U/G Telephone Cable LOS B (S.U.E.*) ——		Utility Traffic Signal Box ———————————————————————————————————	<u> </u>
U/G Telephone Cable LOS C (S.U.E.*)		Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)		U/G Tank; Water, Gas, Oil —————	_
U/G Telephone Conduit LOS B (S.U.E.*)		Underground Storage Tank, Approx. Loc. —	— UST
U/G Telephone Conduit LOS C (S.U.E.*)		A/G Tank; Water, Gas, Oil —————	_

Geoenvironmental Boring

End of Information -

U/G Test Hole LOS A (S.U.E.*)

Abandoned According to Utility Records —

AATUR

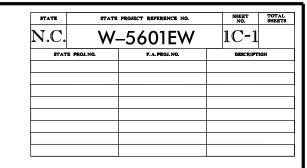
E.O.I.

County Line —	
Township Line —	
City Line	
Reservation Line ————————————————————————————————————	
Property Line —————	
Existing Iron Pin —	<u>.</u>
Computed Property Corner	
Property Monument	
Parcel/Sequence Number ————————————————————————————————————	— @ 3
Existing Fence Line —	×××
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
	—
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary ——	
Existing Endangered Plant Boundary ———	
	—— —— нРВ ————
Known Contamination Area: Soil	— - ℛ — s — ℛ
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential —	
BUILDINGS AND OTHER CUL	
Gas Pump Vent or U/G Tank Cap	— o
Sign —	
Well	
Small Mine	
Foundation —	
Area Outline —	_
Cemetery —	
,	_
Building —	
Building ————————————————————————————————————	_ 📛
Building ————————————————————————————————————	_ 📛
Building ————————————————————————————————————	_ 📛
Building ————————————————————————————————————	
Building School Church Dam HYDROLOGY: Stream or Body of Water	
Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir	
Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir Jurisdictional Stream	
Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir Jurisdictional Stream Buffer Zone 1	
Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir Jurisdictional Stream	JS BZ 1 BZ 2
Building School Church Dam HYDROLOGY: Stream or Body of Water Hydro, Pool or Reservoir Jurisdictional Stream Buffer Zone 1 Buffer Zone 2	JS

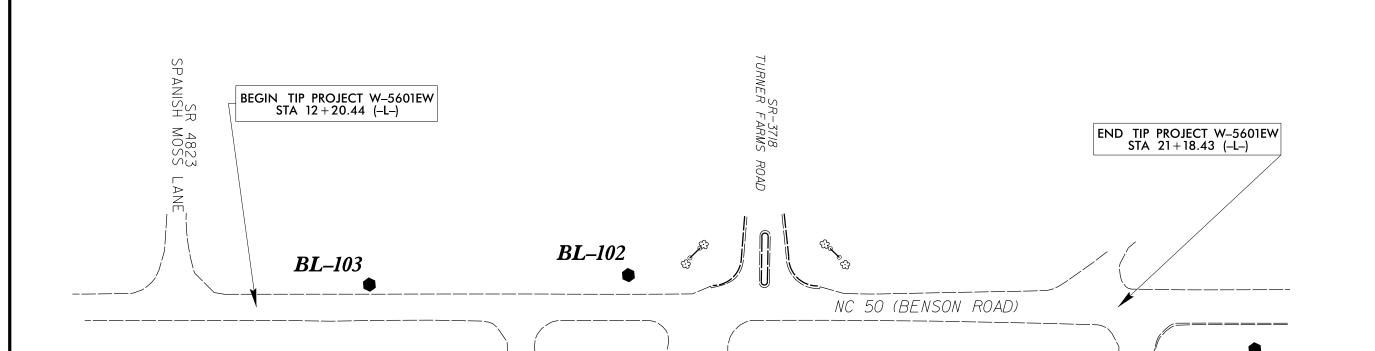
Proposed Lateral, Tail, Head Ditch -

False Sump

SURVEY CONTROL SHEET



BL-101



BC INT	DESC.	NORTH	EAST	ELEVATION
BL101	BL1Ø1	684040.926	2115962.242	363.652
BL102	BL1Ø2	684666.058	2115758.125	364.616
BL103	BL1Ø3	684906.917	2115635.706	363.433

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY

NCDOT FOR MONUMENT "BL-103"
WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF

NORTHING: 684906.917(f+) EASTING: 2115635.706(f+)

ELEVATION: 363.433(f+)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT

(GROUND TO GRID) IS: THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-103" TO -L- STATION 10+00 IS N 28°49'29" W 497.00

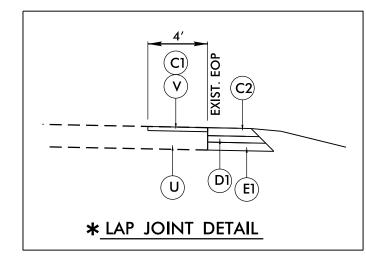
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

PAVEMENT SCHEDULE

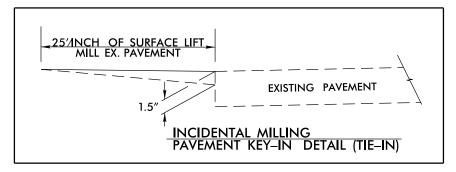
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
СЗ	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN $2\frac{1}{2}$ " IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.OC, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN $51_2^{\prime\prime}$ IN DEPTH.
R	2'-6" CONCRETE CURB AND GUTTER.
Т	EARTH MATERIAL
U	EXISTING PAVEMENT
V	1.5" MILLING

NOTES:

- 1) PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
- 2) THE PORTION OE EACH EXISTING SHOULDER THAT IS NOT FULL DEPTH IS TO BE REMOVED AND PAVED TO FULL DEPTH.



-L- STA. 12 + 20.44 TO 21 + 18.43 LT & RT



PROJECT REFERENCE NO.

W-560IEW
2A-7

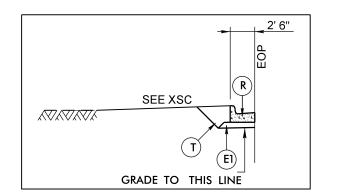
ROADWAY DESIGN
ENGINEEY 27/2018

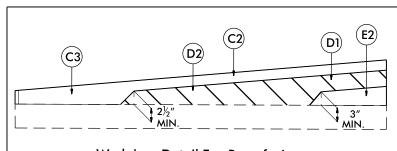
SEAL
022942

Docusigned by Cine
Roger Kinchman

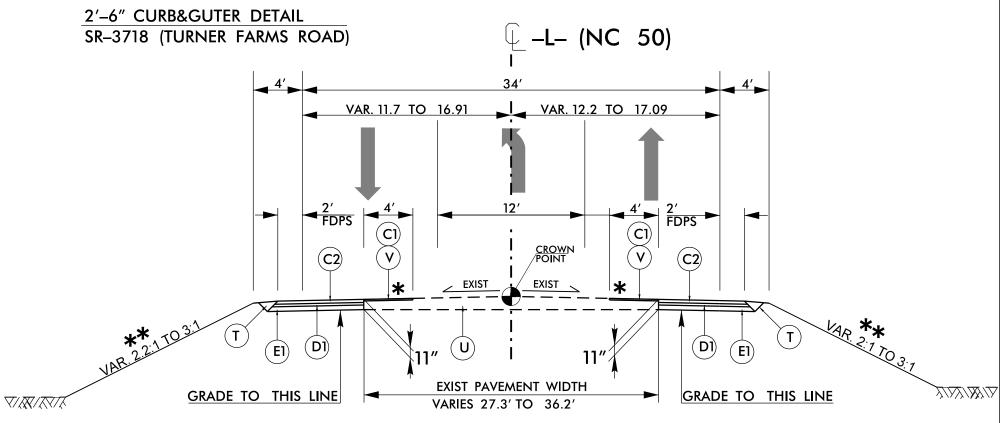
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NOTE: A TEMPORARY ASPHALT WEDGE WILL BE REQUIRED IMMEDIATELY AFTER MILLING TO ENSURE SMOOTH TRAVEL IF THE FINAL LAYER OF SURFACE COURSE IS NOT PLACED ON THE SAME DAY AS MILLING





Wedging Detail For Resurfacing SR-3718 (TURNER FARMS ROAD)

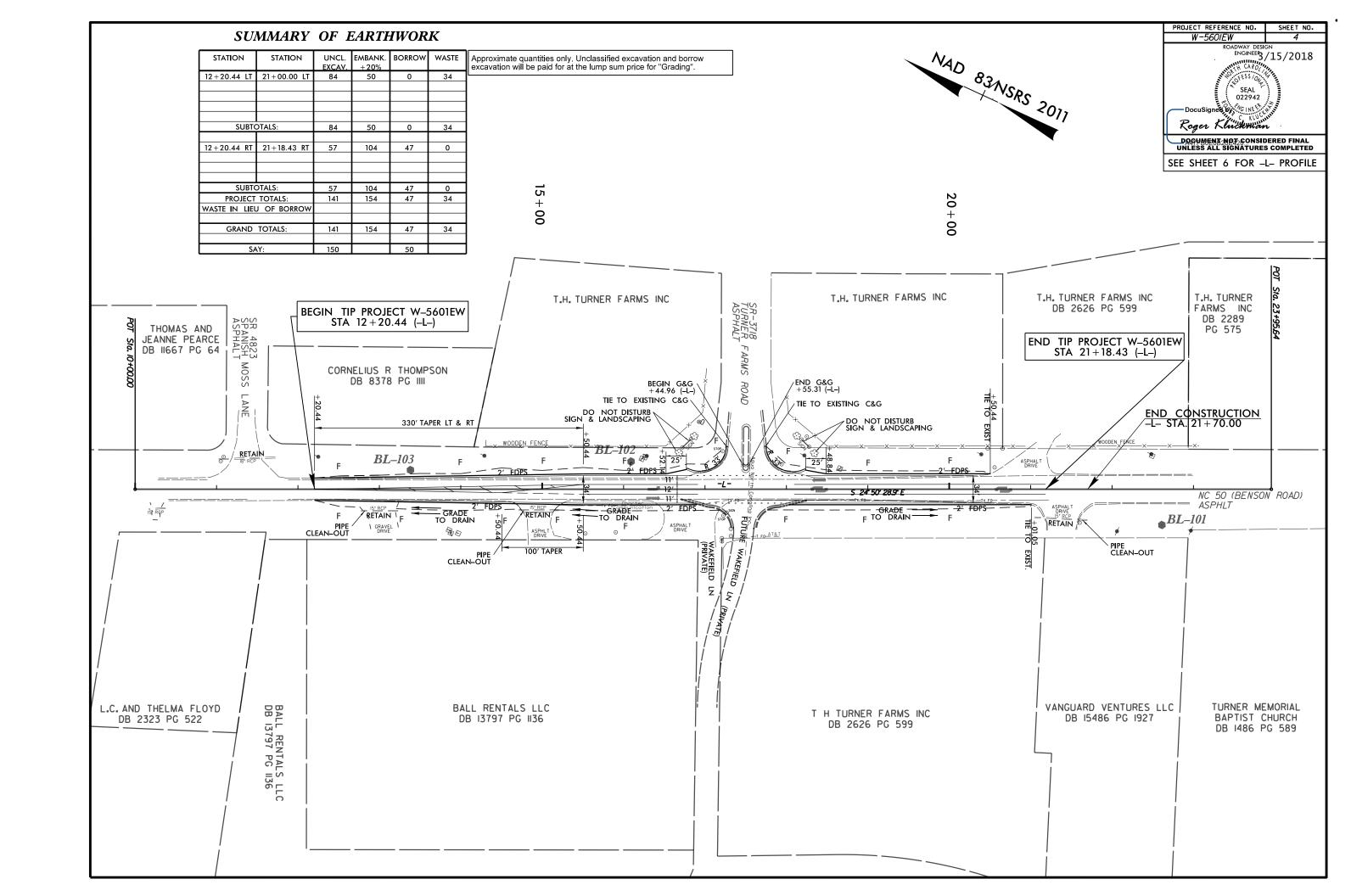


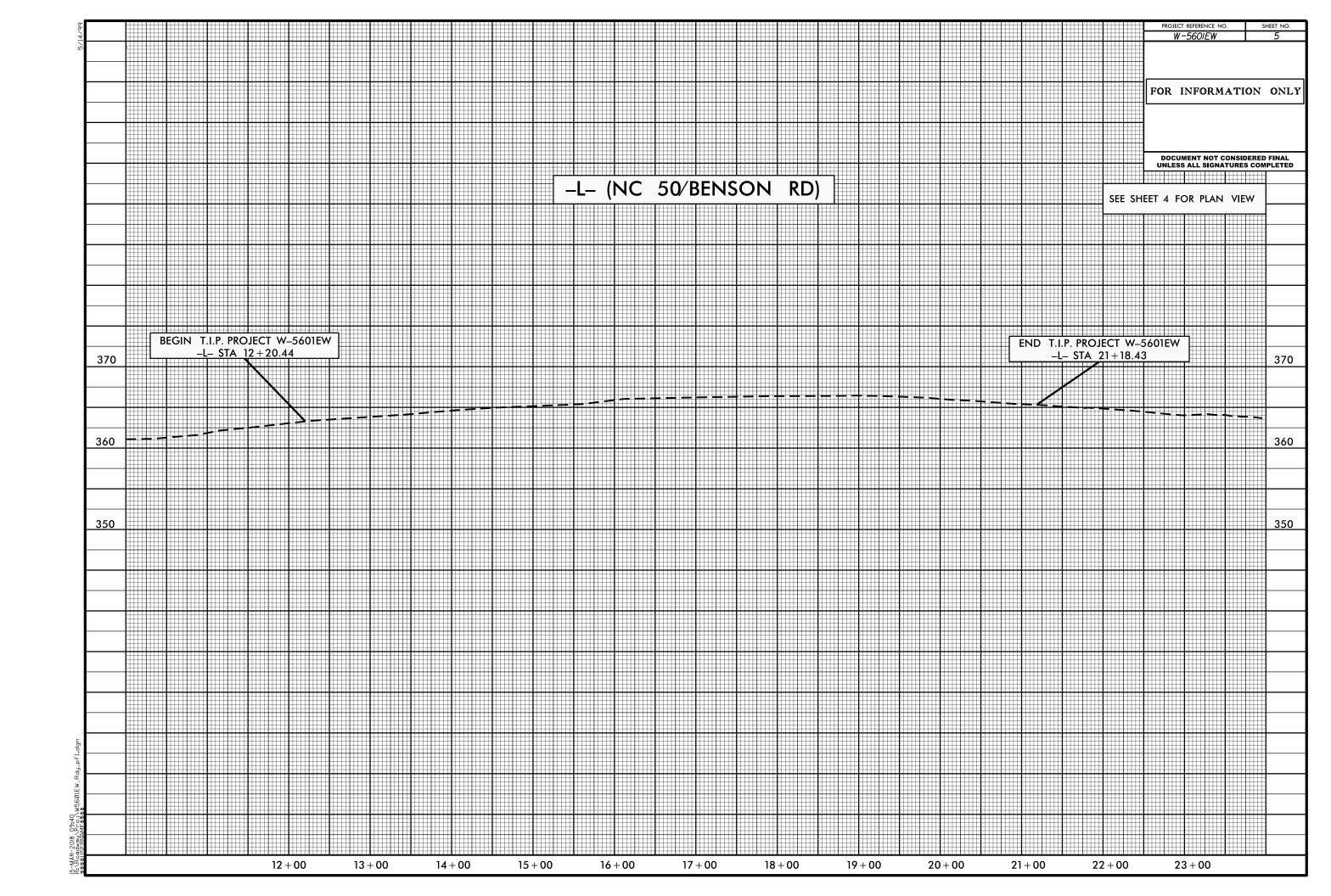
TYPICAL SECTION NO. 1

-L- STA. 12 + 20.44 TO 21 + 18.43

* SEE LAP JOINT DETAIL
** SEE CROSS SECTIONS

ray\Proj\w5601EW_Rdy_typ.dc RNAMF\$\$\$\$





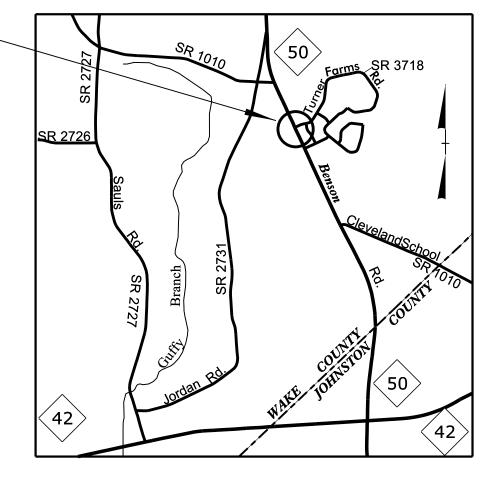
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

WAKE COUNTY



PROJECT W-5601EW



N.C.D.O.T. WORK ZONE TRAFFIC CONTROL
1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561
750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745 STATE TRAFFIC MANAGEMENT ENGINEER TRAFFIC CONTROL PROJECT ENGINEER TRAFFIC CONTROL PROJECT DESIGN ENGINEER TRAFFIC CONTROL DESIGN ENGINEER



INDEX OF SHEETS

SHEET NO.

TITLE

TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, GENERAL NOTES, AND LEGEND TMP-2

-5601EW

TMP-1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Roger Kluckman DATE 3/15/2018

SEAL

022942

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

DIRECTION OF PEDESTRIAN TRAFFIC FLOW

- - - FYIST DVMT

NORTH ARROW

PROPOSED PVMT

TEMP. SHORING (LOCATION PURPOSES ONLY)

WORK AREA

REMOVAL

SIGNALS







PAVEMENT MARKINGS

—FXISTING LINES -TEMPORARY LINES

TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

CONE





TEMPORARY CRASH CUSHION FLASHING ARROW BOARD



LAW ENFORCEMENT



TRUCK MOUNTED ATTENUATOR (TMA)



CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

PORTABLE SIGN

STATIONARY SIGN

STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

CRYSTAL/CRYSTAL



YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS



PAVEMENT MARKING SYMBOLS

ROADWAY STANDARD DRAWINGS

REV OCTORER 2017

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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 TEMPORARY LANE CLOSURES 1101.02 TEMPORARY SHOULDER CLOSURES 1101 04 WORK ZONE VEHICLE ACCESSES 1101 05 TRAFFIC CONTROL DESIGN TABLES 1101 11 STATIONARY WORK ZONE SIGNS 1110.01 1110.02 PORTABLE WORK ZONE SIGNS 1130.01 DRIIM 1135.01 CONES 1150 01 FLAGGING DEVICES 1180.01 SKINNY-DRUM 1205.01 PAVEMENT MARKINGS - LINE TYPES & OFFSETS PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS 1205.02 PAVEMENT MARKINGS - INTERSECTIONS 1205 04 1205.05 PAVEMENT MARKINGS - TURN LANES PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES 1205.08 PAVEMENT MARKINGS - PAINTED ISLANDS 1205.09

GENERAL 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

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

DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

ALL ROADS

MONDAY THRU FRIDAY 6 AM TO 9 AM & 4 PM TO 7 PM

- 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.
- 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.
- 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.

PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT

PAVEMENT EDGE DROP OFF REQUIREMENTS

BACKETLL 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 FDGE 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.

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) 50FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

- 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.
- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN

TRAFFIC CONTROL DEVICES

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 TRAVÉLWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS

PAVEMENT MARKINGS AND MARKERS

INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME ALL ROADS

MARKING PATNT

MARKER NONE

SHEET NO

TMP-2

PROT BEEEDENICE NO W-5601FW

- TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING
- REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



APPROVED: Koger Kluckman 3/27/2018 DATE:

SEAL



PROJECT REFERENCE NO. SHEET NO. W-560/EW PMP-/

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN WAKE COUNTY

LOCATION: NC 50 (BENSON ROAD) AT SR 3718
(TURNER FARMS ROAD/WAKEFIELD LANE)

INDEX

SHEET NO. DESCRIPTION

P-1 PAVEMENT MARKING PLAN COVER SHEET, SCHEDULE,

NOTES, AND STANDARD DRAWINGS.

PMP-2 PAVEMENT MARKING PLAN.

PAVEMENT MARKING SCHEDULE

SYMBOL

DESCRIPTION

THERMOPLASTIC(4", 90 MILS)

TA WHITE EDGELINE LINE

THERMOPLASTIC(4", 120 MILS)

T8 2 FT. - 6 FT. WHITE MIN SKP LINE TD 3 FT. - 9 FT. WHITE MIN SKP LINE

TE WHITE SOLID LANE LINE

TI YELLOW DOUBLE CENTER LINE
TH YELLOW SINGLE CENTER LINE
TF 10'-30'/SP YELLOW SKIP LINE

THERMOPLASTIC(12", 90 MILS)

YELLOW DIAGONAL LINE

THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)

UA LEFT TURN ARROW

UC STRAIGHT ARROW

UF LEFT/RIGHT TURN ARROW

MARKERS_

MA YELLOW & YELLOW
MB CRYSTAL & RED

GENERAL NOTES

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.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME MARKING MARKER
ALL ROADS THERMOPLASTIC PERMANENT RAISED

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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

1205.01 PAVEMENT MARKINGS - LINE TYPES & OFFSETS

1205.02 PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS

1205.04 PAVEMENT MARKINGS - INTERSECTIONS

1205.05 PAVEMENT MARKINGS - TURN LANES

1205.08 PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES

1205.09 PAVEMENT MARKINGS - PAINTED ISLANDS

1250.01 RAISED PAVEMENT MARKERS - INSTALLATION SPACING

1251.01 RAISED PAVEMENT MARKERS - PERMANENT RAISED

Roger Kluckman 3/15/2018 A47FB0E0B26E420... AHP CAROLLING CESS/O...



DESIGN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

