



April 11, 2016

Addendum No. 1

RE: Contract # C203854
WBS # 2016CPT.09.22.10341.1, Etc.
STATE FUNDED
Forsyth County
1 Section Of US-52/NC-8, 1 Section of I-40 Bus/US-421, And 7 Sections of Secondary Roads

April 19, 2016 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the plans (Sketch Maps):

The Project WBS numbers have been changed on all sheets. Please discard the Sketch Map sheets you previously received (entire package) and replace with the revised set. Only the WBS numbers were changed.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 04-11-16",
	also the WBS numbers were revised
	Replaced the project special provision entitled "Non-Tracking Hot
R-7 thru R-9	Applied Tack Coat (Entire Project)" with the project special provision
	entitled "Non-Tracking Tack Coat"

The WBS number was revised in the header on all pages of the proposal. Please discard the proposal we originally sent you and use the revised proposal we are providing by way of this addendum. Other than the changes listed in the above table, only the WBS number was revised on the other pages.

The contract will be prepared accordingly.

Sincerely,

R. A. Garris, PE Contract Officer

RAG/jag

cc:

Mr. Ron Hancock, PE

Mr. Pat Ivey, PE

Mr. Rodger Rochelle, PE

Mr. R.E. Davenport, PE

Mr. Ken Kennedy, PE

Ms. Lori Strickland

Project File (2)

Mr. Ray Arnold, PE

Ms. Theresa Canales, PE

Ms. Marsha Sample

Mr. Mike Gwyn

Ms. Jaci Kincaid

Ms. Penny Higgins

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 04-11-16

DATE AND TIME OF BID OPENING: APRIL 19, 2016 AT 2:00 PM

CONTRACT ID

C203854

WBS

2016CPT.09.22.10341.1, 2016CPT.09.23.20341.1

FEDERAL-AID NO. STATE FUNDED

COUNTY

FORSYTH

T.I.P. NO.

MILES

16.335

ROUTE NO.

US 52

LOCATION

1 SECTION OF US-52/NC-8, 1 SECTION OF I-40 BUS/US-421, AND

7 SECTIONS OF SECONDARY ROADS.

TYPE OF WORK

MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

Page 6-41, Subarticle 650-3(B), Mix Design Criteria, replace Table 650-1 with the following:

	TABLE 650-1 OGAFC GRADATION CRITERIA		
Sieve Size (mm)	Type FC-1	Type FC-1 Modified	Type FC-2 Modified
19.0	-	-	100
12.5	100	100	80 - 100
9.50	75 - 100	75 - 100	55 - 80
4.75	25 - 45	25 - 45	15 - 30
2.36	5 - 15	5 - 15	5 - 15
0.075	1.0 - 3.0	1.0 - 3.0	2.0 - 4.0

NON-TRACKING TACK COAT:

(1-2-14)(Rev. 4-19-16)

605

SPI 6-13A

Revise the 2012 Standard Specifications as follows:

Page 6-4, SECTION 605 ASPHALT TACK COAT, line 29, after Section 605, add the following:

SECTION 606 NON-TRACKING ASPHALT TACK COAT

606-1 DESCRIPTION

Refer to Article 605-1.

Non-tracking tack coat will be required. Notify the Engineer prior to using non-tracking tack coat.

606-2 MATERIALS

Use only products from the "Non-tracking Asphalt Tack Coat" materials on the NCDOT Approved Product List maintained by the Materials and Tests Unit located at the following website:

https://connect.ncdot.gov/resources/Materials/MaterialsResources/Approved%20Non-Tracking%20Tack%20Coat%20Products%20for%20NC.pdf

Use only an approved Hot Applied Tack for the open-graded asphalt friction course (OGAFC), if applicable.

Do not dilute or mix the non-tracking tack coat with water, solvents, or other materials before application.

606-3 WEATHER LIMITATIONS

Refer to Article 605-3 and Article 605-5 for OGAFC requirements.

606-4 SURFACE PREPARATION

Refer to Article 605-4.

606-5 ACCEPTANCE OF ASPHALT MATERIALS

Refer to Article 605-5.

606-6 APPLICATION EQUIPMENT

Refer to Article 605-6.

606-7 APPLICATION RATES AND TEMPERATURES

Target application rate for EMULSIFIED ASPHALT non-tracking tack shall be in accordance with Table 605-1, Application Rates for Tack Coat, contained elsewhere in this document, and if necessary adjust based on existing pavement conditions, milled surface, and manufacturer's recommendations and approved by the Engineer. Application temperatures shall be in accordance with manufacturer's recommendations. Non-tracking asphalt tack coat shall not be overheated.

Target application rate for HOT APPLIED TACK shall be 0.10 gal/sy and adjusted based on existing pavement conditions, milled surface, and manufacturer's recommendations and approved by the Engineer. Application temperatures shall be in accordance with manufacturer's recommendations. Non-tracking asphalt tack coat shall not be overheated.

606-8 APPLICATION OF TACK COAT

Refer to Article 605-8 except on **Page 6-4, Article 605-8,** line 6, replace second paragraph with the following:

If public traffic is being maintained, cover the non-tracking tack coat in the same day's operation or provide continual lane closures until the tack is covered. Due to non-tracking tack requiring heat to activate the adhesive properties, the application of temporary granular material will not be allowed. If extended lane closures are required, applicable liquidated damages will apply. To facilitate safe traffic conditions or for other reasons the Engineer may limit the application of non-tracking tack in advance of the paving operation.

606-9 MEASUREMENT AND PAYMENT

There will be no direct payment for the non-tracking tack coat and work covered by this section.

Page 6-26, Article 610-8, line 30, replace "Section 605" with "Sections 605 or 606".

Page 6-42, Article 650-5, line 32, replace "Section 605" with "Sections 605 or 606".

Page 6-44, Article 652-1, line 11, replace "Section 605" with "Sections 605 or 606".

SHOULDER WEDGE:

(9-20-11) (Rev. 8-21-12)

510

SP6 R03R

Revise the 2012 Standard Specifications as follows:

Page 6-26, Article 610-8, add the following after line 43:

Attach a device, mounted on screed of paving equipment, capable of constructing a shoulder wedge with an angle of 30 degrees plus or minus 4 degrees along the outside edge of the roadway, measured from the horizontal plane in place after final compaction on the final surface course. Use an approved mechanical device which will form the asphalt mixture to produce a wedge with uniform texture, shape and density while automatically adjusting to varying heights.

Payment for use of this device will be incidental to the other pay items in the contract.

ASPHALT BINDER CONTENT OF ASPHALT PLANT MIXES:

(11-21-00) (Rev. 7-17-12)

609

SP6 R15

The approximate asphalt binder content of the asphalt concrete plant mixtures used on this project will be as follows:

Asphalt Concrete Base Course	Type B 25.0	4.4%
Asphalt Concrete Intermediate Course	Type I 19.0	4.8%
Asphalt Concrete Surface Course	Type S 4.75A	6.8%
Asphalt Concrete Surface Course	Type SA-1	6.8%
Asphalt Concrete Surface Course	Type SF 9.5A	6.7%
Asphalt Concrete Surface Course	Type S 9.5	6.0%
Asphalt Concrete Surface Course	Type S 12.5	5.6%

The actual asphalt binder content will be established during construction by the Engineer within the limits established in the 2012 Standard Specifications.

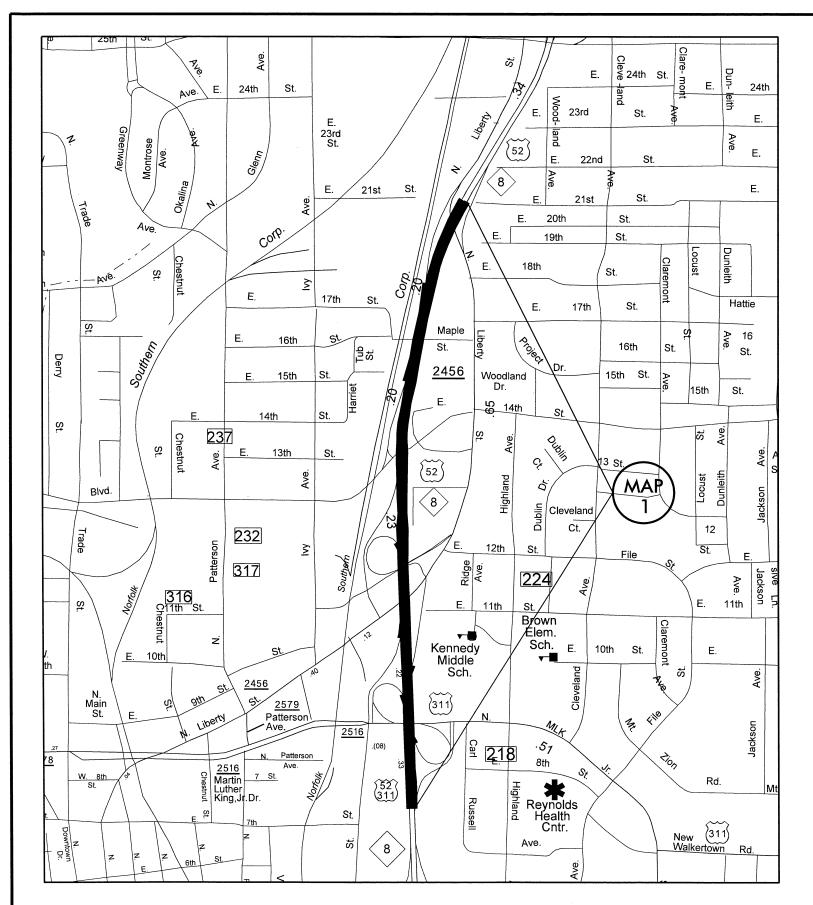
ASPHALT PLANT MIXTURES:

(7-1-95)

609

SP6 R20

Place asphalt concrete base course material in trench sections with asphalt pavement spreaders made for the purpose or with other equipment approved by the Engineer.



PROJECT REFERENCE NO. SHEET NO.

2016CPT.09.22.10341.1
2016CPT.09.23.20341.1



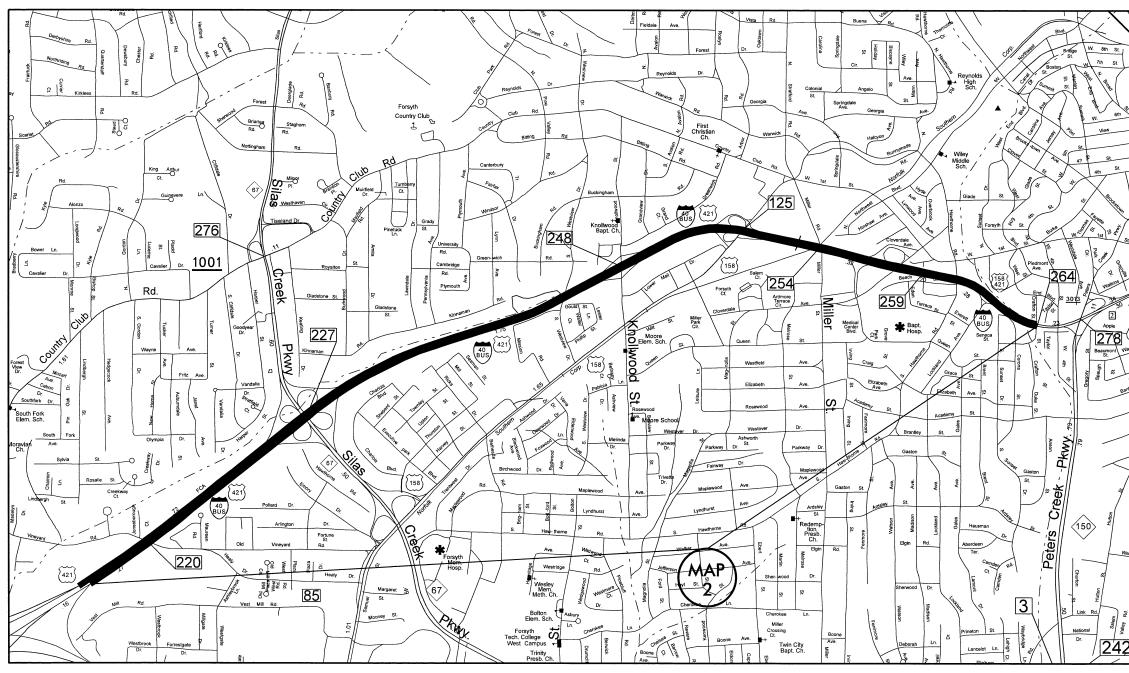
MAP 1 US 52/NC 8 NORTHBOUND US 52/NC 8 SOUTHBOUND

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 8 P.M. TO 6 A.M., Monday—Sunday.

Mill Black surface only, Approximately $\frac{5}{8}$ " depth. DO NOT MILL INTO EXISTING RUMBLE STRIPS,

Pave Back with Ultra—thin Bonded Wearing Course. Start and stop all paving at concrete pavement joints on ramps.

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.22.10341.1 2016CPT.09.23.20341.1	2



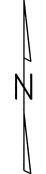


MAP 2
US 421/BUS 40 NORTH BOUND
US 421/BUS 40 SOUTH BOUND
ALL WORK ON THESE MAPS TO BE
NIGHT TIME ONLY 8 P.M. TO 6 A.M.,
Monday–Sunday.

Mill $\frac{7}{8}$ " depth from yellow line to over rumble strip in outside lane. DO NOT remove and replace inside rumble strip. Pave back with $\frac{7}{8}$ " OGAFC TYPE FC–2 Modified. Replace outside lane rumble strip.

Start and stop all paving at concrete pavement joints on ramps.
Start and stop all paving at pavement joints near grass gores on ramps that are asphalt.

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.22.10341.1 2016CPT.09.23.20341.1	3



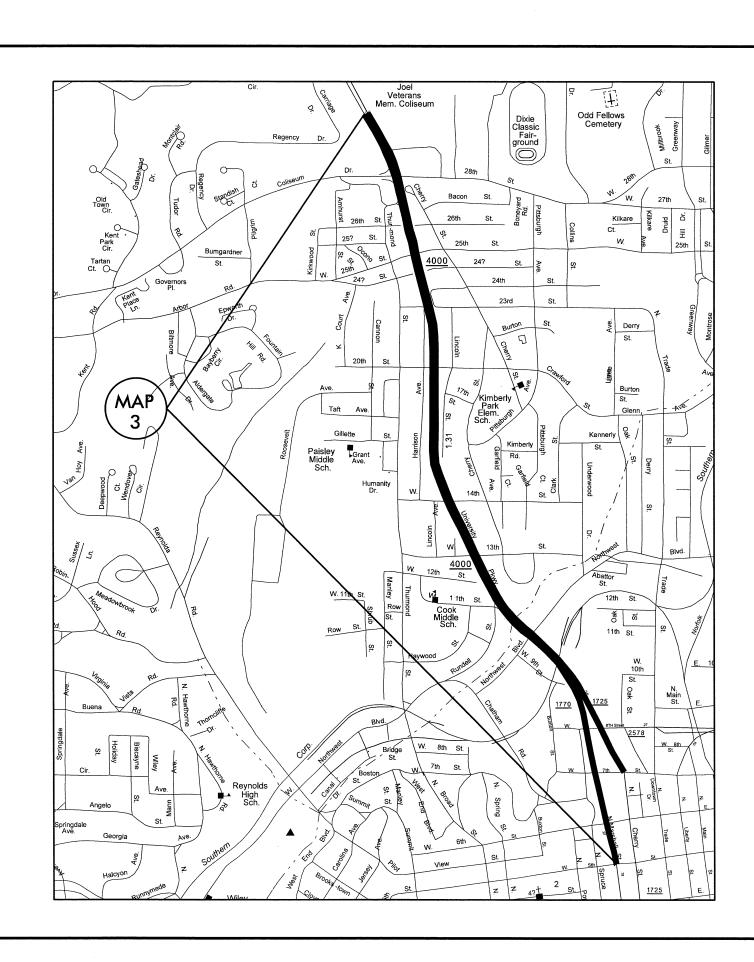
MAP 3 NORTH BOUND Cherry St. SR 1725 University Parkway SR 1725

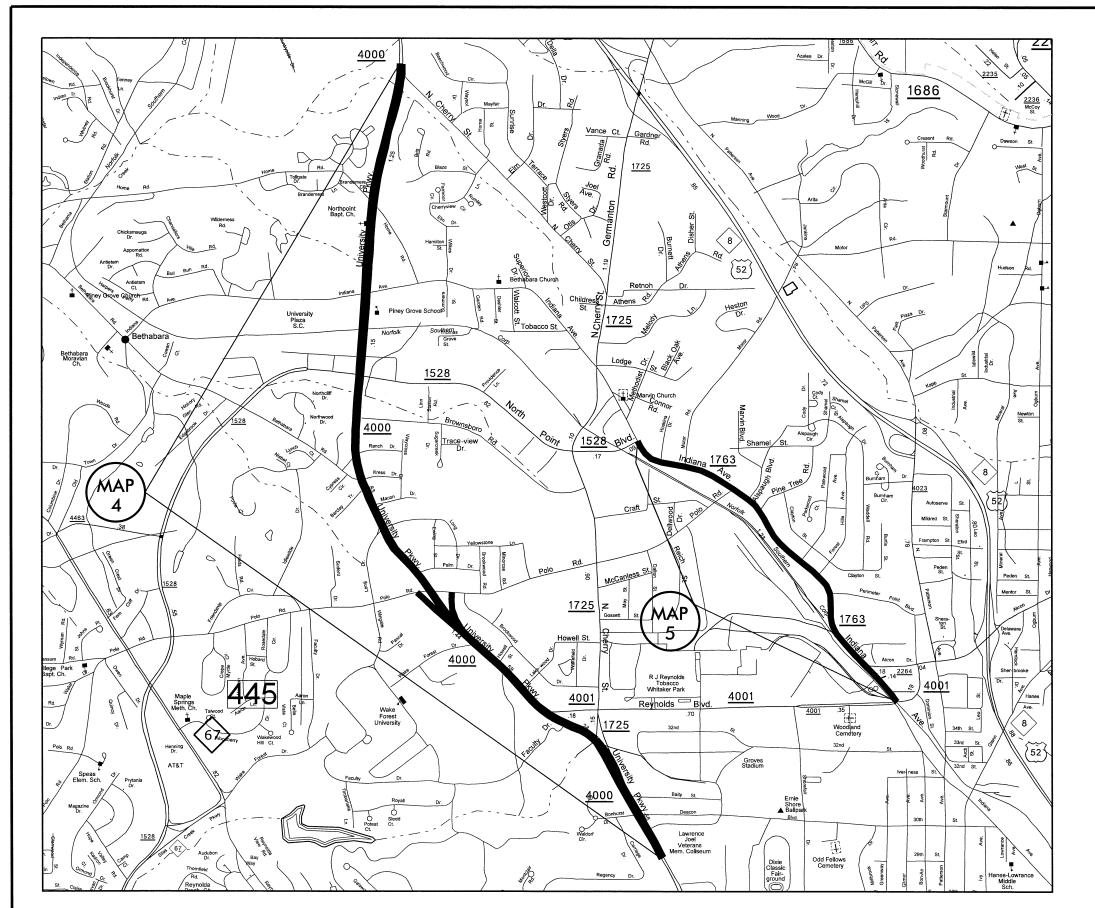
MAP 3 SOUTH BOUND University Parkway SR 1725 N. Marshall St. SR 1770

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 8 P.M. TO 6 A.M., Monday-Sunday. ORDER OF OPERATION:

1. DIAMOND GRIND CONCRETE PAVEMENT.

2. MILL ASPHALT PAVEMENT SO THAT WHEN RE PAVED WITH 1½" S9.5C SURFACE COURSE, DRIVING SURFACE WILL BE FLUSH TO DIAMOND GRINDING SURFACE.





PROJECT REFERENCE NO. SHEET NO.

2016CPT.09.22.10341.1
2016CPT.09.23.20341.1

MAP 4
University Parkway SR 4000
Includes Ramps at Polo Road.
MILL 1½" DEPTH FULL WIDTH
OF PAVEMENT.
PAVE BACK WITH 1½" S9.5C
ALL WORK ON THIS MAP TO BE
NIGHT TIME ONLY 8 P.M. TO 6 A.M.,
Monday—Sunday.

MAP 5
Indiana Ave. SR 1763
MILL 1½" DEPTH FULL WIDTH
OF PAVEMENT.
PAVE BACK WITH 1½" S9.5C
ALL WORK ON THIS MAP TO BE
NIGHT TIME ONLY 8 P.M. TO 6 A.M.,
Monday-Sunday.

	Country
Randall	St. Dr.
MAP 6	Randall
Eastwin	Pd Araminta Pd. Pd. Pd. Dr.
Southwin	Dr. 1122 150.
Rø.	On Op.
(421)	.16

Hanes

3153

.63

Mall

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.22.10341.1 2016CPT.09.23.20341.1	5



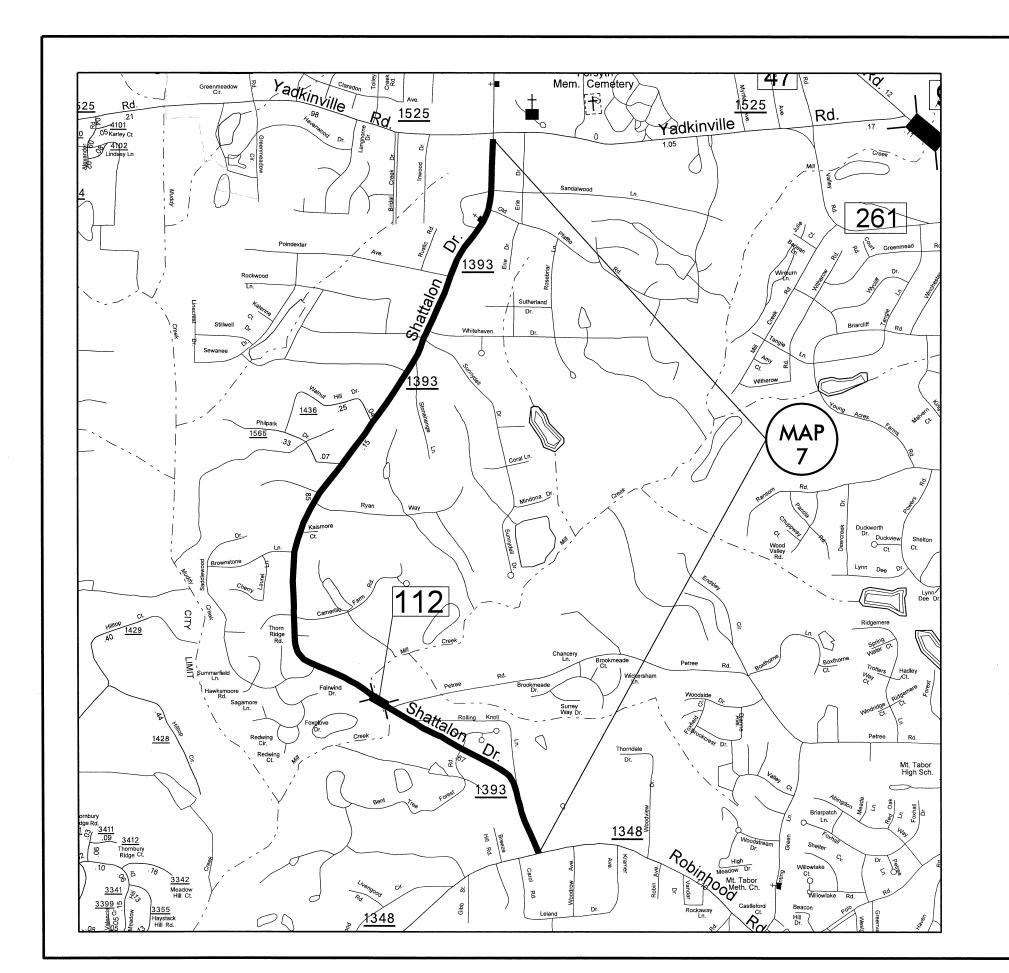
MAP 6 Jonestown Rd. SR 1122

ALL WORK ON THESE MAPS TO BE NIGHT TIME ONLY 8 P.M. TO 6 A.M., Monday–Sunday.

MILL 1½" DEPTH FULL WIDTH OF PAVEMENT.

PAVE BACK WITH 1½" S9.5B

MILL $1\frac{1}{2}$ " DEPTH FULL WIDTH AND RE PAVE TO PAVEMENT JOINT AT NORTH BOUND US 421 RAMP NEAR MCDONALDS. PAVE BACK WITH $1\frac{1}{2}$ " S9.5B

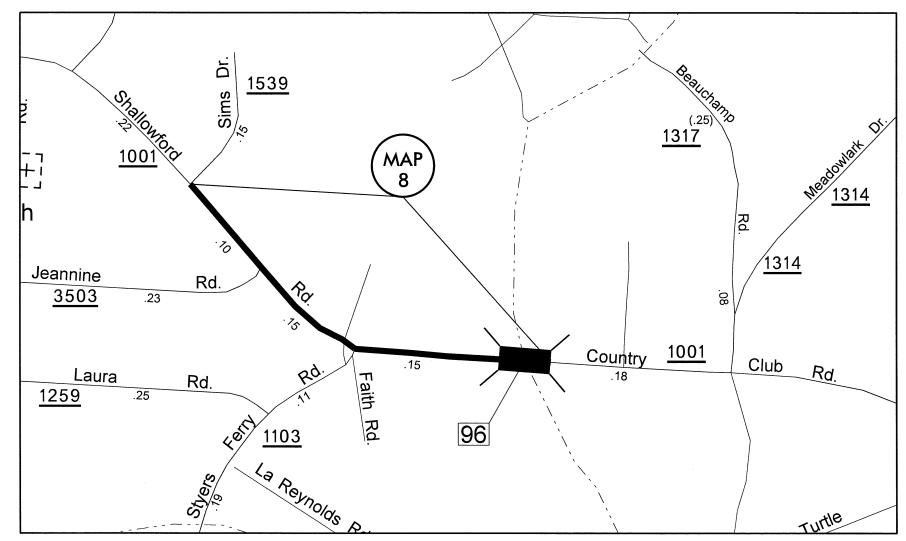


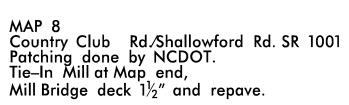
PROJECT REFERENCE NO. SHEET NO.

2016CPT.09.22.10341.1
2016CPT.09.23.20341.1

MAP 7
Shattalon Rd. SR 1393
Patching by NCDOT Forces.
Mill and tie into pavement joints at Yadkinville Rd.
Do Not Pave through intersection at Yadkinville Rd. SR 1525
Curb Mill 0–1½" a 12 foot width at all curbs.

PROJECT REFERENCE NO.	SHEET NO.
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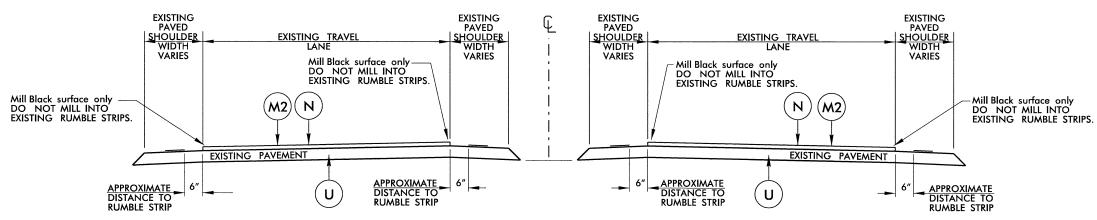


		PROJECT REFERENCE NO.	SHEET 1
		2016CPT.09.22.10341.1 2016CPT.09.23.20341.1	8
ye 72.	Union Cross Rd.		
Presley	2643 Rd95		
Union 12	Cross		
.12			
	PER AND THE PROPERTY OF THE PR		
MAP	2693		
	.85		
``\			
	Map 9 SR 2693 Saw Mill R		
	NO MILLING Tie into existing surf Widen Road a 2 for	ace at ends of Map. of width of the by NCDOT Engineer	
	$\frac{3838}{\text{Grayson}}$ Grayson $\frac{3838}{\text{Fixton}}$ $\frac{3838}{\text{Constant Round of 2 1000}}$ on one side as direct with $5\frac{1}{2}$ " of B25.0B. Overlay entire new	ted by NCDOT Engineer	•
	Overlay entire new	width with $1\frac{1}{2}$ " SF9.5A.	
, , , , , , , , , , , , , , , , , , ,	2093 D. 100 P. Yokley S. 106 Rd. 35		
3899 Joe Shav Rd. St. 385	8 $\frac{3837}{10}$ Dier In $\frac{3837}{2692}$		
(4) \z	8 3808 .08 Merriweather Ct. Dier Ln. (.09) 5 .14		

FORSYTH COUNTY

NORTH CAROLINA

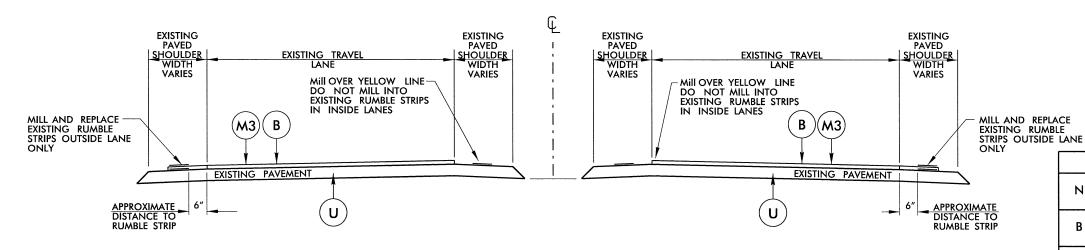
PROJECT REFERENCE NO.	SHEET NO.
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TYPICAL SECTION NO.1

MAP 1

US 52/NC 8 NORTH BOUND and SOUTH BOUND

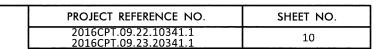


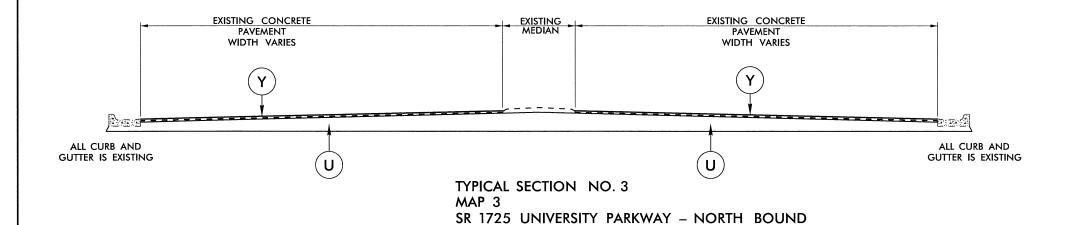
TYPICAL SECTION NO.2

MAP 2

BUS 40/US 421 NORTH BOUND and SOUTH BOUND

	PAVEMENT SCHEDULE	
Ν	PROP. APPROX. 5%" ULTRATHIN HOT MIX BONDED WEARING SURFACE COURSE, TYPE B, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.	
В	PROP. APPROX. 1/8" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED, AT AN AVERAGE RATE OF 105 LBS. PER SQ. YD.	
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.	
C1	PROP. APPROX. $1^{1}_2{}^{\prime\prime}$ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 16B LBS PER SQ YD.	
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.	
E	PROP. APPROX. $5\frac{1}{2}$ " ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, TO BE APPLIED AT AN AVERAGE RATE OF 627 LBS PER SQ YD.	
М	MILL ASPHALT PAVEMENT, 0" TO $1\frac{1}{2}$ "	
M1	MILL ASPHALT PAVEMENT, $1\frac{1}{2}^{\prime\prime}$ DEPTH	
M2	FINE MILLING, %" DEPTH	
М3	FINE MILLING, 7/8" DEPTH	
S	SHOULDER RECONSTRUCTION (SEE DETAIL)	
U	EXISTING CONCRETE PAVEMENT	
Υ	PROPOSED DIAMOND GRINDING	





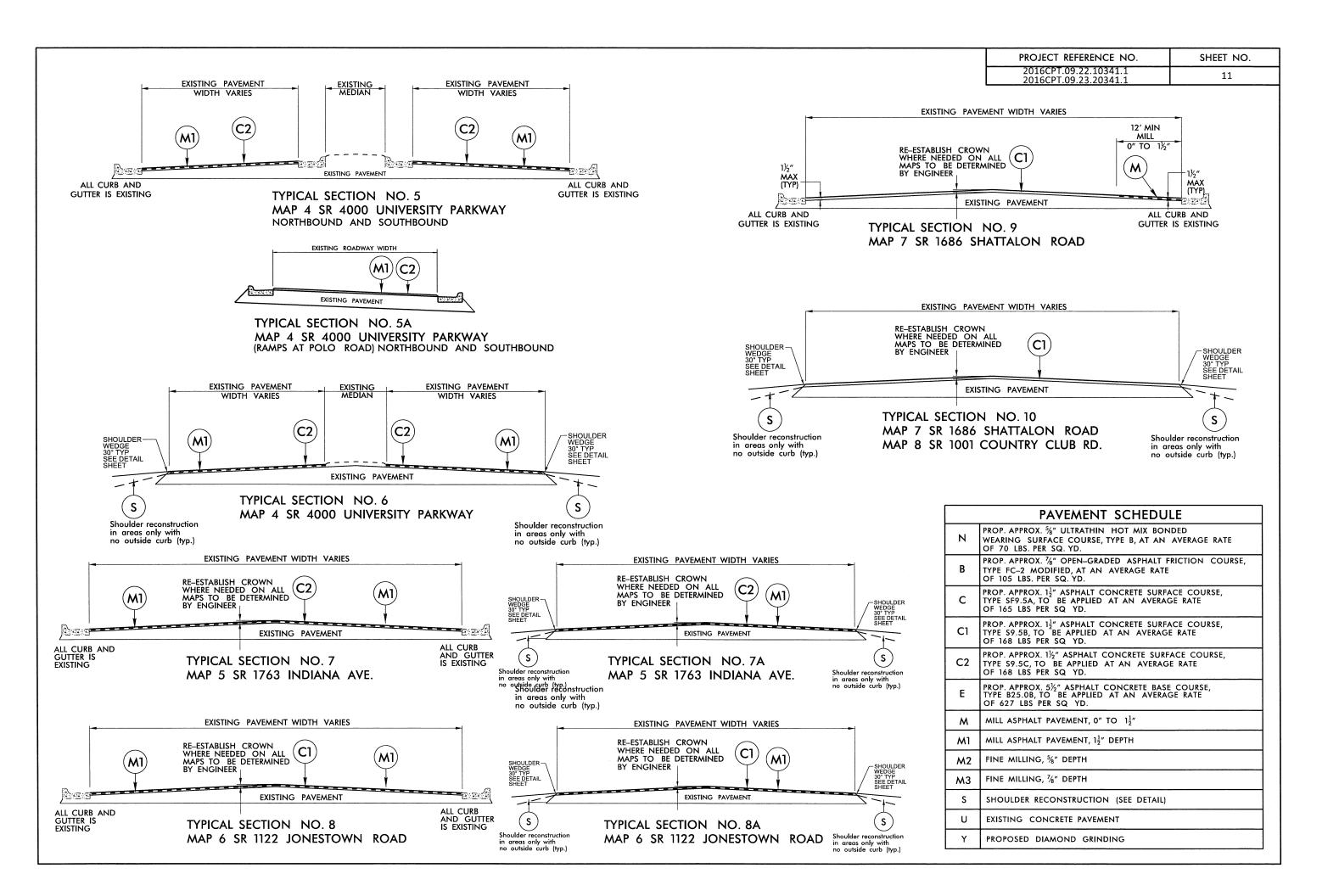
EXISTING CONCRETE
PAVEMENT
WIDTH VARIES EXISTING ASPHALT
LANE
WIDTH VARIES EXISTING ASPHALT
TURN LANE
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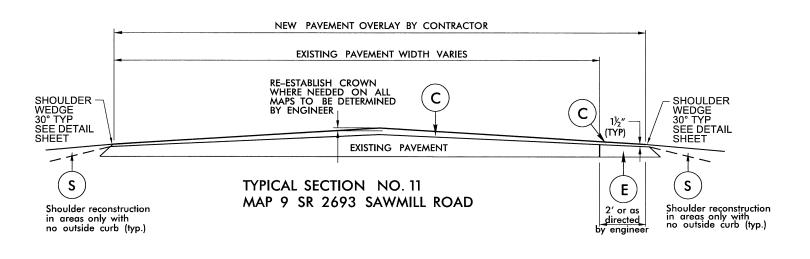
SR 1725 UNIVERSITY PARKWAY - SOUTH BOUND

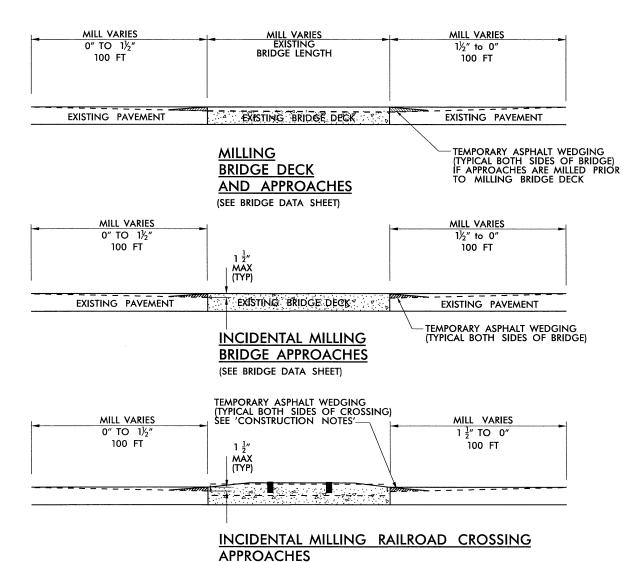
TYPICAL SECTION NO. 4 MAP 3 SR 1725 UNIVERSITY PARKWAY - NORTH BOUND SR 1725 UNIVERSITY PARKWAY - SOUTH BOUND

- * ORDER OF OPERATION:
 1. DIAMOND GRIND CONCRETE PAVEMENT.
 2. MILL ASPHALT PAVEMENT (MILLING WIDTH VARIES) SO THAT WHEN REPAVED WITH 1/2" S9.5C SURFACE COURSE DRIVING SURFACE WILL BE FLUSH TO DIAMOND GRINDING SURFACE.

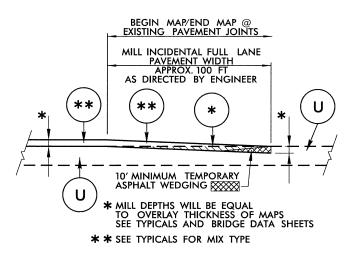
	PAVEMENT SCHEDULE		
Z	PROP. APPROX. 5%" ULTRATHIN HOT MIX BONDED WEARING SURFACE COURSE, TYPE B, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.		
В	PROP. APPROX. 1/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED, AT AN AVERAGE RATE OF 105 LBS. PER SQ. YD.		
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.		
C 1	PROP. APPROX. 1^1_2 " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.		
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.		
E	PROP. APPROX. $5\frac{1}{2}$ " ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, TO BE APPLIED AT AN AVERAGE RATE OF 627 LBS PER SQ YD.		
М	MILL ASPHALT PAVEMENT, 0" TO 1½"		
M1	MILL ASPHALT PAVEMENT, $1rac{1}{2}^{\prime\prime}$ DEPTH		
M2	FINE MILLING, %" DEPTH		
M3	FINE MILLING, %" DEPTH		
S	SHOULDER RECONSTRUCTION (SEE DETAIL)		
U	EXISTING CONCRETE PAVEMENT		
Υ	PROPOSED DIAMOND GRINDING		



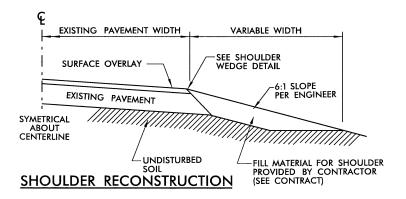




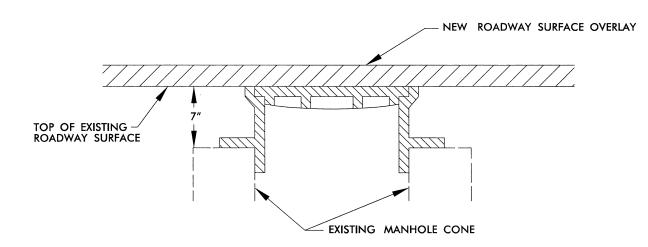
PROJECT REFERENCE NO.	SHEET NO.
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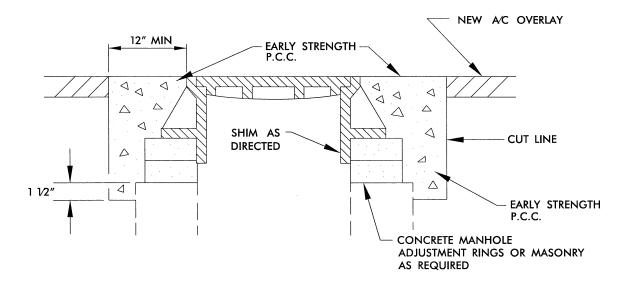
INCIDENTAL MILLING AT TIE-IN DETAIL



	PAVEMENT SCHEDULE
Z	PROP. APPROX. %" ULTRATHIN HOT MIX BONDED WEARING SURFACE COURSE, TYPE B, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
В	PROP. APPROX. 7/8" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED, AT AN AVERAGE RATE OF 105 LBS. PER SQ. YD.
С	PROP. APPROX. 1^{1}_{2} " ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
C1	PROP. APPROX. $1\frac{1}{2}''$ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
C2	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.
Е	PROP. APPROX. 5% ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, TO BE APPLIED AT AN AVERAGE RATE OF 627 LBS PER SQ YD.
М	MILL ASPHALT PAVEMENT, 0" TO $1\frac{1}{2}$ "
M1	MILL ASPHALT PAVEMENT, $1\frac{1}{2}$ " DEPTH
M2	FINE MILLING, %" DEPTH
МЗ	FINE MILLING, 7/8" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING CONCRETE PAVEMENT
Y	PROPOSED DIAMOND GRINDING



STEP 1



STEPS 2,3, & 4

- STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE
- STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.
- STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.
- STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

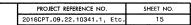
PROJECT REFERENCE NO.	SHEET NO.
2016CPT.09.22.10341.1 2016CPT.09.23.20341.1	13

CONSTRUCTION NOTES:

- 1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
- 2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:
 - PHASE 1 MILLING AND PATCHING (WHEN REQUIRED)
 - PHASE 2 SURFACE OVERLAY
 - PHASE 3 SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
 - PHASE 4 UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.)
 WHEN REQUIRED.
- 3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.
- 4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).
- 5. FOR TWO-LANE ROADWAYS IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610–11.
- 7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.
- 9. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y-LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

2017_Resurfacing_FORSYTH

				2017_Res	Suriacing	y_roks i	111	DDO IE	CTNO		SUEET NO.
								PROJE 2016CPT.09		•	SHEET NO.
								2016CPT.09	.23.20341.1		14
Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
1	US 52	US 52	218	US 311	6.5 RC, 1 AWS	89	NA	NA	127	NA	MILL AND PAVE BACK
1	US 52 & NC8	US 52 & NC8	224	SR 2456 N. LIBERTY ST.	7.25 RC, 1 AWS	86	NA	NA	175	NA	MILL AND PAVE BACK
1	US 52	US 52	232	LIBERTY ST. CONNECTOR E. 11TH ST.	7.25 RC, 1 AWS	86.1	NA	NA	123	NA	MILL AND PAVE BACK
1	US 52 & NC8	US 52 & NC8	237	NORTHWEST BLVD.	7.25 RC, 1 AWS	82.5	NA	NA	167	NA	MILL AND PAVE BACK
1	SIXTEENTH ST.	SIXTEENTH ST.	244	US 52 & NC 8	6 RC SLAB	NA	43.2	14FT 11 IN US 52NBL 15FT 01 IN	169	NA	MAINTAIN CLEARANCE
1	SR 2456 N. LIBERTY ST.	SR 2456 N. LIBERTY ST.	247	US 52	7" RC SLAB	NA	39	15FT 09 IN SBL 17FT 09 IN NBL	188	NA	MAINTAIN CLEARANCE
2	VINEYARD ROAD	VINEYARD ROAD	220	I40 BUS	NA	NA	52	15FT 02 IN NBL 17FT 08 IN SBL	284	NA	MAINTAIN CLEARANCE
2	NC 67	NC 67	227	I40 BUS	NA	NA	51.1	15FT 04 IN NBL 15FT 08 IN SBL	241	NA	MAINTAIN CLEARANCE
2	KNOLLWOOD ST.	KNOLLWOOD ST.	248	I40 BUS	8.5 RC SLAB	NA	38	15FT 05 IN NBL 15FT 04 IN SBL	167	NA	MAINTAIN CLEARANCE
2	US 158	US 158	125	I40 BUS & US 421	8.25 RC SLAB	NA	45.4	15FT 02 IN NBL 15FT 04 IN SBL	178	NA	MAINTAIN CLEARANCE
2	140 BUS & US 421	I40 BUS & US 421	254	MILLER ST & SOUTHERN RXR	8.25 RC SLAB	91.8	NA	NA	328	NA	DO NOT MILL DO NOT PAVE
2	140 BUS & US 421	I40 BUS & US 421	259	EDEN, HAWTHORNE & CLOVERDALE	8-8.5 RC SLAB	76	NA	NA	1304	NA	DO NOT MILL DO NOT PAVE
2	140 BUS & US 421	I40 BUS & US 421	264	CRAFTON ST.	9 1/4 RC SLAB	84	NA	NA	124	NA	DO NOT MILL DO NOT PAVE
3	SR 1725	UNIVERSITY PARKWAY	322	20TH ST	PPC.C.S	57.5	NA	NA	70	NA	Do Not GRIND on Bridge
3	SR 1725	PEDESTRIAN BRIDGE	W613	SR 1725	NA ·	NA	35.8	15FT 01 IN	87	NA	MAINTAIN CLEARANCE
3	SR 1725	SOUTHERN RXR	R29 9	SR 1725	NA	NA	38	16FT 00 IN NBL 16FT 09 IN SBL	193	NA	MAINTAIN CLEARANCE
4	POLO ROAD	POLO ROAD	284	SR 4000 UNIVERSITY PARKWAY	NA	NA	28	15FT 01 IN 15FT 06 IN	187	NA	MAINTAIN CLEARANCE
4	SOUTHERN RXR	SOUTHERN RXR	320	SR 4000 UNIVERSITY PARKWAY	NA	NA	44.4	16FT 07 IN NBL 16FT 01 IN SBL	206	NA	MAINTAIN CLEARANCE
4	INDIANA AVE.	INDIANA AVE.	321	SR 4000 UNIVERSITY PARKWAY	NA	NA	99.9	16FT 08 IN NBL 16FT 01 IN SBL	223	NA	MAINTAIN CLEARANCE
6	SR 1122	JONESTOWN ROAD	239	US 421	8 3/4 RC SLAB	59	NA	NA	256	NA	DO NOT MILL DO NOT PAVE
7	SR 1393	SR 1393 SHATTALON ROAD 112			PPCCS, 3 AWS		NA	NA	150	NA	MILL AND PAVE BACK
8	SR 1001	COUNTRYCLUB ROAD	STEWART CREEK	7 RC SLAB 5 AWS	26.2	NA	NA	52	NA	MILL AND PAVE BACK	

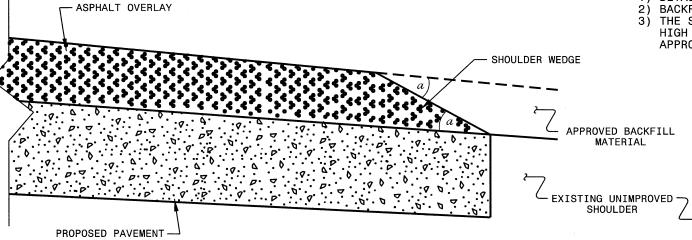


NOTES:

1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.

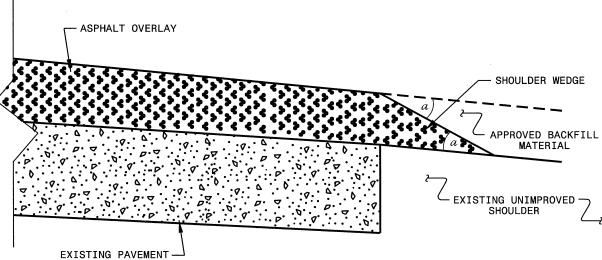
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.

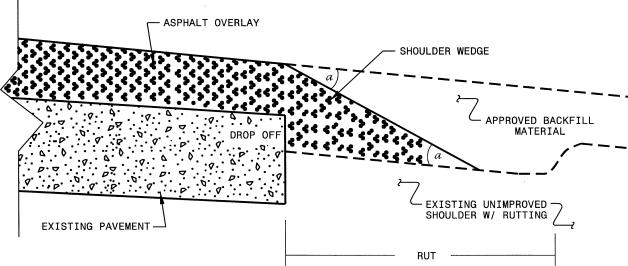
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)





SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

SHOULDER WEDGE **DETAILS**

ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:_		DATE:_	2/2/16
CHECKED BY:		DATE: _	
FILE SPEC .: s:	usr/details/stan	d/shoulderwedged	detail.dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.22.10341.1,	11	<u> </u>
2016CPT.09.23.20341.1		•

SUMMARY OF QUANTITIES

													N O					,							·		,						
PROJECT C	OUNTY MA	AP ROUTE	DESCRIPTION	TYP I	LANES LA		FINAL			H WIDTH		INCIDENTA					MILLING								OGAFC,	ULTRA-THIN		DIAMOND			PORTABLE		WATTLE
				1 1	TY						EXCAVATIO	STONE BASI					ASPHALT	MILLING	COURSE,	COURSE,			INDER FOR	MODIFIED		BONDED	RUMBLE	GRINDING	MANHOLES		LIGHTING	SILT FENCE	
1	1		1		- 1	нот		REQUIRE	D	1	l	į	CTION	5/8"DEPTH	I 7/8"DEPTH	PAVEMENT,	PAVEMENT,		B25.0B	S9.5B	S9.5C	SF9.5A F	LANT MIX	ASPHALT	MOD	WEARING	STRIPS	1	1	VALVE BOX	9	, ,	
	1	1	i	1 1	- 1	APPLIED		P	- 1			1	1		1	1 1/2"DEPTH	0"TO 1 1/2"	1				1		BINDER FOR		COURSE	(ASPHALT	1				()	
					- 1	TACK COA	T	1		1	1		1		1		DEPTH				1	1	i	PLANT MIX	İ		CEMENT	ł	l			, ,	
1					- 1	1		1	i			l		1	1			1				1			l		CONCRETE) [1	1	, ,	i
NO	N	10		NO					MI	FT	CY	TONS	SMI	SY	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	TONS	TON	LF	SY	EA	EA	LS	LF	LF
												1							1		1	- 1	ı		1	l	1				1	, ,	
1 1			BEGIN NORTH BOUND AT PAVEMEN	m		1	1			1		ł	1		1	1	1	1	1 1								İ					, ,	
1			JT. AT EXIT# 110B TO PAVEMENT JT	rl I		1	i		1		1	1	1		1	i		1	1 1		- 1	1	- 1			i	1	1		1		, ,	
2016CPT.09.22.10341.1	orsyth 1	1 US 52/NC 8 NORTH BOUND	NORTH OF BRIDGE # 247 OVERPASS		2 N	ID YES	NO	NO	1.00	5 26	l			16,452	1		1	l	1 1			1	1	50		967	ł		l	1	1	, ,	
							1	1																									
1	i		BEGIN SOUTHBOUND AT PAVEMEN	п	- 1		1	1	- 1	i		ı	1	I	1	i	1		1 1		- 1	1	- 1			l	l					()	
1			JT. NORTH OF BRIDGE # 247 LIBERT		1	1	1	1	1	1		1	i	1	ł			1				1	- 1		1	l	ł				1	, ,	
1	1	i	ST. OVERPASS TO PAVEMENT JT.	1 1		1	1	1				1	i	ı	i				1 1			- 1	- 1			l	Į.			1		, ,	
1 1	١,	1 US 52/NC 8 SOUTH BOUND	SOUTH OF BRIDGE # 218 OVERPASS		2 N	ID YES	NO	NO	1.00	3 26		1		17,772	i		1	ł	1 1			1		54		1.045	1					, ,	
		TOTAL FOR MAP NO. 1	300111 OF BRIDGE # 218 OVERFAS	' 	-2 10	10 10	 "	+ 10	2.01			+	+	34,224	+	 		 	1					104		2,012			 	†	1		
		TOTAL FOR MAP NO. 1	NORTHBOUND FROM BRIDGE #264	.++				-	2.01	`		+	+	34,224	+	 	+	 	+						<u> </u>	2,012	 	+		+			
1 1		1			1	ł	1		- 1	1	1	1		1					1 1						l	l	1			1	1	,	
1			OVER CRAFTON ST. TO GRASS GORE			1	1	Į.	1		İ	1		1					1 1		. 1	- 1	- 1		1	i	1	1		1		1 1	
1 1			AT I-40 WEST BOUND/US421 NORTI	"			1			.	1	1	ł	1					1 1				- 1	294	4,816		14,890			1	1 .	, ,	
2016CPT.09.22.10341.1	orsyth 2	2 I-40 BUS/US421 NORTH BOUND	BOUND RAMP EXIT 1	2	2 N	ID YES	NO	NO	4.01	1 26	ļ	-			87,199	ļ								294	4,816		14,890	+		+	+		
	1		SOUTHBOUND FROM PAVEMENT JT			1	1	1		1			1			1	1	1				1				l	1	1		1		, ,	
1		1	AT ON RAMP FROM WEST BOUND I			- 1	1	1	- 1	1		1	ł	1	1	1	I	1	1			- 1			1	l	1	1		1	1	, ,	
]]	1	1	40 TO BRIDGE #264 OVER CRAFTON	۱ ۱		1		1	1	1		1	1	1	1	1	1	ł				- 1					1	1		ı	1 .	, '	
		2 I-40 BUS/US421 SOUTH BOUND	ST.	2	2 N	ID YES	NO	NO	3.84		L			1	82,057		.							276	4,532	ļ	13,728	_			+		
		TOTAL FOR MAP NO. 2		I			1	1	7.85			1			169,256				1					570	9,348	l	28,618	1		_			
	TOTAL FOR	PROJ NO. 2016CPT.09.22.10341.1							9.87	1				34,224	169,256									674	9,348	2,012	28,618	1		L	1		
																					T						1					, ,	
	- 1		NORTHBOUND FROM PAVEMENT J	r.		1		1	1	1	1	1	1	1	1	i	1	1]			- 1				l	1	I			1		
	1	SR 4000 UNIVERSITY PARKWAY/SR 1725 CHERRY ST-	NEAR COLISEUM ENTRANCE TO		1	ı	1	1				l	1	1	1	1			1 1			ł				1	1	1	l		1	1 1	
1	1	NORTH BOUND	PAVEMENT JT. AT N. CHERRY ST. EXT	т.,		1						l	1	i	1	1		1	1 1							ļ	1		İ	1		1 1	
2016CPT.09.23.20341.1	orsyth 3	3	INCLUDES POLO ROAD RAMPS		2 N	1D YES	l no	NO	1.77	B 24		1	1	1	1	1,953			1 1		182	- 1	11			İ	1	32,844	8	3	*	1 ,	
20100/ (103:23:203-12:2	0.074.1			1 -/-			1	1					-		†	1			1								1						
i i	1		SOUTHBOUND FROM PAVEMENT J	-	- 1	- 1	1	1	1	1	l		1	j	1	1	1		1 1			1	- 1			ļ	1	1	1	1	1	1 '	
1	1	SR 4000 UNIVERSITY PARKWAY/	AT N. CHERRY ST. EXT. TO PAVEMEN			- 1	1			1	1	1	1	ł	1	1		1	1 1			1	1				İ		1	1		1 '	
1	1	SR1770 N. MARSHALL ST-SOUTH BOUND	JT. NEAR COLISEUM ENTRANCE,	"	1	1	1	1	İ	1	ŀ		1	1	1	1		ł	1 1				1				i			1		, ,	
1	١.	,	NCLUDES POLO ROAD RAMPS	5.5A.6	2 .	1D YES	NO	NO	1.97			1	1	1		753		ł	1 1		71		α					36,109	7	2		1 '	
		TOTAL FOR MAP NO. 3	NCLUDES FOLD ROAD RAINIFS	3,34,6	2 1 1	10 123	- NO	NO.	3.75		 		+		+	2,706	 	 	+		253		15		 		 		15	5	+		
<u> </u>		TOTAL FOR WAF NO. 3	 	+-+				+	3.73	-	 		+	+	+	2,700	+	 	+-1		233				 		 	- 55,555		 	-	$\overline{}$	
1	- 1			- 1	- 1		1	į.	- 1	1	l			l l	1		1	1	1 1		1	l			l	1	1					('	1
1	1		NORTHBOUND FROM PAVEMENT J	'-			ì	1	- 1	1	l		i .	ı				i	1 1			1			1		1			1		i '	
1			NEAR COLISEUM ENTRANCE TO			i i	ı		- 1		1			1	1			1	1 1			- 1			1	İ	1	1	1		i	1 '	
1	1		PAVEMENT JT, AT N. CHERRY ST. EXT		1		1			VARIES		1		İ	1		1	1	1 1			- 1			1	1	1			1 -	1 .	1 !	
2016CPT.09.23.20341.1	orsyth 4	4 SR 4000/SR 1725 UNIVERSITY PARKWAY NORTHBOUND	INCLUDES POLO ROAD RAMPS	5,5A,6	2 N	1D YES	NO	NO	3.24	1 24'-70'	131		1.09		_	70,033	<u> </u>				6,493		383						43	1 9	 	436	44
1								1	- 1	ı	1		į.	1		1	1	1	1 1		1	1	1				1	i	1	1	1	1 '	
1			SOUTHBOUND FROM PAVEMENT J		1	1	1	i		1	1	1		1	1		1	1	1 1			- 1	1		l	1		1		1	1	('	
1			AT N. CHERRY ST. EXT. TO PAVEMEN	NT	- 1			1	- 1	1	1			ı			i	1	1 1			- 1						1		1	1	i '	
1			JT. NEAR COLISEUM ENTRANCE,	1			ı	i	1	VARIES	l			1		1			1 1			1						1		1	1	i '	
		4 SR 4000/SR 1725 UNIVERSITY PARKWAY SOUTHBOUND	NCLUDES POLO ROAD RAMPS	5,5A,6	2 N	AD YES	NO	NO	3.24	2 24'-70'	159		1.33	1	1	69,510		<u> </u>			6,445		380						8	1	· ·	531	53
		TOTAL FOR MAP NO. 4							6.48	3	290		2.42			139,543					12,938		763						51	10		967	97
T T			FROM PAVEMENT JT. AT NORTH													1						T									1	1	
1	- 1		POINT BLVD. SR 1528 TO PAVEMEN		- 1	1	1	1	- 1	1		1	1	1	1		I					1			1	1	1	1	1	1	1	('	
1	- 1		JT. BEFORE RXR AT REYNOLDS BLVD			1	1	1	- 1	VARIES	1	1	1	1	1	1	1	1				- 1			1	1	1	1		1	1	('	
2016CPT.09.23.20341.1	Forsyth	5 SR 1763 INDIANA AVE	SR 4001	7,7A	2 N	AU YES	NO	NO	1.35	9 24'-58'		1	0.23	1	1	38,314	1	1			3,549	- 1	209		1	I	1	1	69	14	.*	94	10
	11	TOTAL FOR MAP NO. 5	1	1		1	1		1.35		28	1	0.23		1	38,314					3,549		209				T	1	69	14		94	10
T				\neg												1	1										I			1			
1	i		FROM COUNTRY CLUB RD. (SR 1001	₁₎	- 1	- 1	1	1	- 1	-	1	İ	1		1		1					1	- 1		1	I	1	1				ı '	í
1	- 1		THROUGH INTERSECTION TO RADIL		- 1	- 1	1	1	1				1	1	1	1	1		1 1		1	1	1		1	1	1	1	1	1	1	1 '	
2016CPT.09.23.20341.1	Forsyth 4	6 SR 1122 JONESTOWN ROAD	AT HANES MALL BLVD. (SR 3153)		5 .	AU YES	NO	NO	0.64	6 53	11		0.09	1	1	22,740	1		1 1	2,106		1	126		1		1		23	12		1 '	i
2010071.03.23.20341.1	o.syui1	TOTAL FOR MAP NO. 6		10,00		1 12	 ""	1	0.64		11	1	0.09	+	 	22,740	1	†	+	2,106			126		†		t	1	23		1		
Т		TOTAL TOTAL REPORT	 	+	-+		+	+		+-			+		 	1,	1	†	+						†			1		T	1		
			FROM DAVENSENT IT AT VARVENOUS		- !	1	1		1	- 1	1	1	1	1	1	1	1		1			- 1			1	1	1	1	1	1	1	1 '	i
		1	FROM PAVEMENT JT AT YADKINVILI		- 1	1	1		-	VARIES	.	1	1	1		1	1	1	1			1			1	1	1	1	1	1	ı	1 '	i
l			RD. (SR 1525) TO PAVEMENT JT AT					NO	1	5 22'-34	310	33	5.17	1	1	550	742	1 222	1	3,544		1	213		l	I	1	1	١,	1 .	1	1.034	103
2016CPT.09.23.20341.1	rorsyth	7 SR 1393 SHATTALON RD.	ROBINHOOD RD. (SR 1348)	9,10	2 2	WU YES	NO.	NO						+	+	550		1,223	+						 	 	 	+	3	+ +	+	-,	103
		TOTAL FOR MAP NO. 7	FROM PANEL	+				+	2.58	3	310	33	5.17	+	+	550	742	1,223	+	3,544			213		 	 	+	+	3	1	+	1,034	103
1	1		FROM PAVEMENT JT. EAST OF	.		ı		1	1	-		1	1	1	1		1	1	1						1		1	1	1			1 '	1
1			BRIDGE #96 TO PAVEMENT JT. AT			1	1		- 1		l	1	1	1	1	1	1	1			1	1				1	1	1	1	1	1	1 '	
2016CPT.09.23.20341.1			SIMS DRIVE (SR 1539)	10	2 2	WU YES	NO	NO			43	+	0.71	+	_	152	 	489	+	494	├		30		 			+	 		+	143	14
		TOTAL FOR MAP NO. 8							0.35	7	43		0.71			152	4	489	+	494	L		30				1		ļ	 		143	14
	- 1				- 1	1	1	1			1		1	1		1	1					1			1	1		1			1	1 '	i
	- 1		FROM EOP PAVEMENT JT AT UNIO		- 1	1		1		1	I	1	1		1	I	1					1			1	1	1	1		1		1 '	i
	- 1		CROSS RD. (SR 2643) TO PAVEMEN		- 1			1	- 1	1	1		1	1		1	1								1	1		1	1	1		1 '	i
2016CPT.09.23.20341.1	Forsyth	9 SR 2693 SAWMILL RD.	JT NEAR DIER LANE (SR 4361)	11	2 2	WU YES	NO	NO	1.14	9 21	138	96	2.30						571			1,300	112			1		1				460	46
		TOTAL FOR MAP NO. 9							1.14	9	138	96	2.30						571			1,300	112									460	46
(TOTAL FOR	R PROJ NO. 2016CPT.09.23.20341.1							16.3	35	820	129	10.93			204,005	742	1,712	571	6,144	16,740	1,300	1,468					68,953	161	42		2,698	270
		GRAND TOTAL	T	T					26.2	05	820	129	10.93	34,224	169,256	204,005	742	1,712	571	6,144	16,740	1,300	1,468	674	9,348	2,012	28,618	68,953	161	42	1	2,698	270
																																	

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.22.10341.1,	17	
2016CPT.09.23.20341.1		

THERMOPLASTIC AND PAINT QUANTITIES

																AINT																	
		\top		T	T	T		TL	4413000000-E	4457000000-N	4510000000-N	46850			00000-E			4890000000-E		00000-E	4697000000-E	4890000000-E	4890000000-E	4705000000-E	4710000000-E	47210					5000000-E		
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP L	ANES LA	NE LENGTH	WIDTH	WORK ZONE	TEMPORARY	LAW	4" X 90 M	4" X 90 M	4" X 120 M	4" X 120 M	6" X 90 M	6" X 90 M	6" X 120 M	8" X 90 M WHITE		8" X 120 M		12" X 120 M		24" X 120 M WHITE	THERMO MSG ONLY 120 M		R THERMO MERGE					THERMO STR & LT ARROW 90 M
		1 1			1 1	ĮΨ	PE	1 1	ADVANCE/GENERAL WARNING SIGNING	TRAFFIC CONTROL	ENFORCEMENT	WHITE THERMO	YELLOW THERMO	WHITE THERMO	YELLOW THERMO	WHITE	YELLOW THERMO	WHITE THERMO	THERMO	YELLOW THERMO	WHITE THERMO	WHITE THERMO (HRE)	(HRE)	THERMO	THERMO	ONLY 120 M	120 M	ARROW 90 M	ARROW 90 M	M M	ARROW 90 M	90 M	ARROW 90 M
		1 1			1 1	1		1 1	WARNING SIGNING	CONTROL		HERWIO	IIIEKWIO	menio	ITIERINO	(HRE)	(HRE)	(HRE)	171CKINO	I III		(11112)	()					7	1			30	1
1		1 1			1 1		1	1 1						1		1		, ,		I									1			1	
		1 1		1	1 1		1	1 1						l						I	1	1				1			1				I
		1 1						1 1	SE.		HR		١	١	١				١		l					FA	ļ		1	EA	FΔ	FΔ	EA
NO		NO			NO		+	+	SF	LS	HR	LF	LF	<u> </u>	ш-	LF	LF	LF	LF.	LF	LF.	LF	LF	LF	L-	EA	EA .	- EA	EA	EA	EA	EA	EA
				BEGIN NORTHBOUND AT PAVEMENT		- 1	1	1 1						l						1							1		1				
		1 1		JT. AT EXIT# 110B TO PAVEMENT JT		- 1	ĺ	1 1								ı					1						1						1
2016CPT.09.22.10341.1	Forsyth	1	US 52/NC 8 NORTH BOUND	NORTH OF BRIDGE # 247 OVERPASS	1	2 N	D 1.006	26	158	1	10					5,315	5,315	1,328				723	140										
					1 1			1 1								1				1			ŀ			1							1
				BEGIN SOUTHBOUND AT PAVEMENT JT. NORTH OF BRIDGE # 247 LIBERTY				1 1												1	1						1		1	1			İ
		1 1	*	ST. OVERPASS TO PAVEMENT JT.	1 1			1 1								1				1						1	1		1	ŀ			
			US 52/NC 8 SOUTH BOUND	SOUTH OF BRIDGE # 218 OVERPASS	1	2 N	D 1.008	26	158		10					5,323	5,323	1,553	1	1	1	1,663	320			İ		2					
			TOTAL FOR MAP NO. 1				2.014		316	1	20					10,638	10,638	2,881				2,386	460					2					
				NORTHBOUND FROM BRIDGE #264	1 1	- 1	-	1 1						į.		l										1							İ
				OVER CRAFTON ST. TO GRASS GORE		1										1				1						1	1			1			İ
2016CPT.09.22.10341.1	Forsyth	1,1	I-40 BUS/US421 NORTH BOUND	AT I-40 WEST BOUND/US421 NORTH BOUND RAMP EXIT 1	Ί, Ι	, ,	ID 4.011	76	558		60					22,062	22,725	7,239				5,066	1,533			4		1 3	,		i		I
2016CP1.09.22.10341.1	Forsyth	+-	F40 B03/03421 NORTH BOOND	SOUTHBOUND FROM PAVEMENT JT	+++	- + 'V	4.011	1 20	336		- 50					22,002	22,723	7,233				3,000					†	 	<u> </u>	†			
		1 1		AT ON RAMP FROM WEST BOUND I-				1 1						l		1				1			l			1	1		l				
1				40 TO BRIDGE #264 OVER CRAFTON	1		1	1 1						1		1			1	1	1						1	1	Ι.		1		1
	İ	"	I-40 BUS/US421 SOUTH BOUND	ST.	2	2 N	ID 3.845	26	558		58			<u> </u>		20,302	20,771	6,656	 			6,201	1,918			12	 	12	6	 	ļ		
			TOTAL FOR MAP NO. 2		+	-+	7.856 9.87		1,116 1,432	1	118 138					42,364 53,002	43,496 54,134	13,895 16,776		 	1	11,267 13,653	3,451 3,911			12	 	17		 			
	т	TOTAL FO	OR PROJ NO. 2016CPT.09.22.10341.1		+		3.87	+-+	1,432	-	130						,136	10,170			1	1 25,055	3,511			†	12	1 -	<u></u>		23	·	
				NORTHBOUND FROM PAVEMENT																													
				JOINT AT 7TH ST. TO END OF	1 1	l l	1	1 1										ŀ		ı	1						1		1	1			
l	١		an age that specific and state of the state	CONCRETE PAVEMENT 0.1 MILE	3.4			1	126		120					1				1						1			1	1			
2016CP1.09.23.20341.1	Forsyth	1 3	SR 4000 UNIVERSITY PARKWAY/SR 1725 CHERRY ST-NORTH BOUND	NORTH OF 27TH ST.	3,4	- 1 N	ID 1.778	24	126		120	<u> </u>		 		+			†	 	 	 				 	†	+	 	 			
				SOUTHBOUND FROM PAVEMENT				1 1										i		i	i						l	1		1			
				JOINT AT 0.1 MILE NORTH OF 27TH	1 1	- 1	1												1						ļ	1	l			1		1	- 1
			п	ST. TO PAVEMENT JOINT AT 5TH ST.	3,4	2 N	1.978	24	126		120							ļ									 			ļ			
			TOTAL FOR MAP NO. 3		+-+		3.756	+	252		240								 	 	 	 						-					
	1	i		NORTHBOUND FROM PAVEMENT JT	. 1	- 1										1				1						1	ı	İ	1	1			ļ
		1		NEAR COLISEUM ENTRANCE TO	1 1	- 1										1		ĺ	1				1				ı						
		1		PAVEMENT JT. AT N. CHERRY ST.	1 1			1 1						l		1		i	l		1					1							
2016CPT.09.23.20341.1	Forsyth	4	SR 4000/SR 1725 UNIVERSITY PARKWAY NORTHBOUND	EXT., INCLUDES POLO ROAD RAMPS	5,5A,6	2 N	1D 3.241	24	158		80	940	6,415	9,143					1,129		888				300	12			16	16	22	7	
		1			. 1	- 1		1 1													1					l			1		l		
				SOUTHBOUND FROM PAVEMENT JT AT N. CHERRY ST. EXT. TO PAVEMEN									1			1			1		i			l i	1	l	İ	1		İ			J
				JT. NEAR COLISEUM ENTRANCE,	'l l			1 1								I					1						1			1	i		1
	1		"	NCLUDES POLO ROAD RAMPS	5,5A,6	2 N	1D 3.242	24	158		80	2,286	6,453	8,232					1,554		1,224				206	16		2	12	13	27	2	
			TOTAL FOR MAP NO. 4				6.483		316		160	3,226		17,375					2,683		2,112				506	28		2	28	29	49	9	
				FROM PAVEMENT JT. AT NORTH			i	1 1					İ				l	ł			1					1		1	1				
1	l			POINT BLVD. SR 1528 TO PAVEMENT JT. BEFORE RXR AT REYNOLDS BLVD.				1 1						1						i			l		l	ļ			1	1			
2016CPT.09.23.20341.1	Formeth	. .	SR 1763 INDIANA AVE	SR 4001	7.74	, ,	1U 1.359	1 24	126			1,240		3,534	18,152	1				53	810	1		50	220	8	2	3	1 1	27	14	4	
2010CF1.09.23.20341.1	roisytii	'	TOTAL FOR MAP NO. 5	311 4002	1700		1.359	1	126			1,240			18,152					53	810			50	220	8	2	3	1	27	14	4	
	T						T												1								_						
	1	1		FROM COUNTRY CLUB RD. (SR 1001									1	1		1			1	1.	1		1			1	1				1		J
2015007.00.22.202.2		. .	SR 1122 JONESTOWN ROAD	THROUGH INTERSECTION TO RADIUS AT HANES MALL BLVD. (SR 3153)			AU 0.646		286		120	542	429	2,389	6,129	1	1		62	53	212		I		348	12			7	26	27	3	, ,
2016CPT.09.23.20341.1	Forsyth	1 6	TOTAL FOR MAP NO. 6	AT HANES MIALL BLVD. (SK 3133)	D,OH	-3 N	0.646		286		120	542	429	2,389	6,129	 			62	53	212	 			348	12		1	7	26	27	3	2
	1	T			\top		1							T .						1									1				
	i			FROM PAVEMENT JT AT YADKINVILL	Ε									1	1		l	1	1								1	1	1	1			
	ļ			RD. (SR 1525) TO PAVEMENT JT AT		_		1 . 1											27	340	1		1		92				١.				
2016CPT.09.23.20341.1	Forsyth	7	SR 1393 SHATTALON RD.	ROBINHOOD RD. (SR 1348)	9,10	2 2	NU 2.585	22	126			27,288 27,288	-	1,122	33,147 33,147				27	340		 	 	 	92	 	+		1 1	8			
 	1		TOTAL FOR MAP NO. 7	FROM PAVEMENT JT. EAST OF	++		2.585	'	126	 		21,288	 	1,122	33,147	-		 	- "	340	+	 	 	 	32	 	 	-	 	 	 		
1				BRIDGE #96 TO PAVEMENT JT. AT	1 1	- 1													1		1		1			1				1	1		
2016CPT.09.23.20341.1	Forsyth	1 8	SR 1001 COUNTRYCLUB RD./SHALLOWFORD RD.	SIMS DRIVE (SR 1539)	10	2 2			126			3,841	l	120	4,290										49					2	4		
			TOTAL FOR MAP NO. 8				0.357	'	126			3,841		120	4,290							 			49		1		_	2	4		
					.1 1	- 1						1		1	1				1		1		1		1	1	1		1		1		. 1
	1	1		FROM EOP PAVEMENT IT AT UNION CROSS RD. (SR 2643) TO PAVEMENT						1		1	1	1			I		1			1	1		1	1	1			1			. 1
2016007.00.22.20241	Formet		SR 2693 SAWMILL RD.	JT NEAR DIER LANE (SR 4361)		2 2	WU 1.149	. 21	126	-	1	12.363	l	24	12,133				1						1	1	1			1			. !
2016CPT.09.23.20341.1	, rursyth	119	TOTAL FOR MAP NO. 9	AT MENU DIEU PRINE (SW 43B1)	1 **	- +	1.149		126			12,363	t	24	12,133	 	 	†	T	1	1						T	1	T	T			
		TOTAL	OR PROJ NO. 2016CPT.09.23.20341.1				16.33		1,358		520	48,500	13,297	24,564	73,851					446	3,134			50	1,215	48	2	5	37	92		16	2
		IOTALF	ON FROM NO. 2010CF1.03.23.20341.1										,797		,415					,218							50		1		246		
	1											40 700	12 227	26.555	70.054	F2 202	F4 ***	16 776	2 772	***	2.22	12.000	2 011		1 317				43	92	94	16	
			GRAND TOTAL		+		26.20	-	2,790	1	658		13,297 .,797		73,851	53,002	,136	16,776		,218	3,134	13,033	3,911	50	1,215	60	62	22	1 43	1 34	269	10	
									L	L			y ,	1 30	,	1 10.	,						·	·	l	.							

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.22.10341.1,	18	
2016CPT.09.23.20341.1		

THERMOPLASTIC AND PAINT QUANTITIES

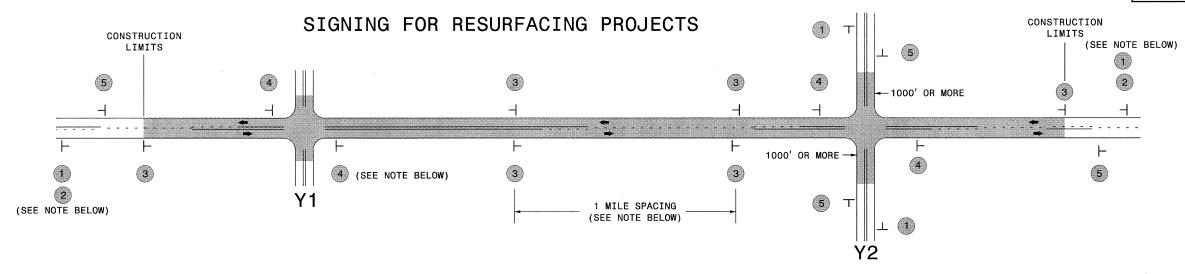
							4780000000	4705000000					00000-N		,	4810000	0000 E	491500	00000-E	482000	0000 E	4835000000	4920000000	4835000000-	El Agano	00000-N	T		4845000000-	M	
PROJECT C	COUNTY	AP ROUTE	DESCRIPTION	TYP LAN	IES LANE	ENGTH WIN	H COLD APPLIED	COLD APPLIED	4800000000-N		COLD APPLIED		COLD APPLIED	COLD APPLIED	COLD APPLIED											PAINT MSG	PAINT	PAINT RT	PAINT LT		PAINT STR & RT
FROJECI	COUNTY M	NOUTE	DESCRIPTION	LAN	TYPE	WID	PLASTIC	PLASTIC	PLASTIC	PLASTIC	PLASTIC	PLASTIC	PLASTIC	PLASTIC	PLASTIC	PAINT	PAINT	PAINT		PAINT	PAINT	PAINT	PAINT	PAINT	ONLY	RXR	PAVEMENT	ARROW	ARROW	ARROW	ARROW
			1	1 1	1		PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT										1	1	MARKING				
	1		1				MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING		l									1	SYMBOL-				
	- 1					1	LINES, TYPE 2	LINES, TYPE 2	CHARACTER,		SYMBOL, TYPE 2									1					1		MERGE				
	- 1						(8")	(24")	TYPE 2 "ONLY"	MERGE ARROW	STR & LT ARROW	STR ARROW	5T & RT ARROW	LT ARROW	RT ARROW]								1				
	١.,						1	1.5	EA	EA		EA.	EA	EA	EA	1.5	LF	LF	IF	LF	16	15	1.5	1.5	EA	EA	EA	EA	EA	EA	EA
NO	N			T NO	++		Lr.	Lr.	EM					LA	LA	LF	LF	u		-Li		L				<u> </u>	 ~				
			BEGIN NORTHBOUND AT PAVEMENT	п		- 1	1				Ι,	1	l 1				I								1	1					
	-		JT. AT EXIT# 110B TO PAVEMENT JT	т				1	l		l .	1	l i				1			1					1						
2016CPT.09.22.10341.1	Forsyth :	US 52/NC 8 NORTH BOUND	NORTH OF BRIDGE # 247 OVERPASS	S 1 2	MD	1.006 26					L		L					6,783	5,315			725		ļ	<u> </u>	1					
		The Control of the Co	l	_	1 1	- 1	1			1	١,	1	1				1											l			
1	1		BEGIN SOUTHBOUND AT PAVEMENT JT. NORTH OF BRIDGE # 247 LIBERT		1 1	- 1				1	1,		l 1				l											1			
1 ' 1			ST. OVERPASS TO PAVEMENT JT.	"			1			1 .	Ι,	1	1 1				1			- 1			Ì				İ				
1		US 52/NC 8 SOUTH BOUND	SOUTH OF BRIDGE # 218 OVERPASS	5 1 2		1.008 26			l		L		Li					6,994	5,323			1,834		L			1				
		TOTAL FOR MAP NO. 1				2.014												13,777	10,638			2,559		ļ							
			NORTHBOUND FROM BRIDGE #264	4		1					١,	l	1				ĺ									1					
			OVER CRAFTON ST. TO GRASS GORE AT I-40 WEST BOUND/US421 NORTH					1	1	1 .	l ,	1	1				1			-					1	1	1				
2016CPT.09.22.10341.1	Enreuth :	2 I-40 BUS/US421 NORTH BOUND	BOUND RAMP EXIT 1	" ,	MD	4.011 26					1,		l i				1	29,831	22,725	- 1		6,003			4		3	2			
		1.10 000,00112 1101111 000110	SOUTHBOUND FROM PAVEMENT JT	T -	1					1	 	——	<u> </u>					/				7/7.7			T						
			AT ON RAMP FROM WEST BOUND I	F	1 1	- 1		1	l	1	1 ,	1	1 1							1						1					
1			40 TO BRIDGE #264 OVER CRAFTON	N L						1 _	ļ ,	1	1									7.645			١.	1					
<u> </u>		I-40 BUS/US421 SOUTH BOUND TOTAL FOR MAP NO. 2	ST.	2 2	MD MD	3.845 26 7.856	+	 	 	3		 	 					27,288 57,119	20,771			7,645 13,648		 	12	+	15	6			
	TOT			+-+-		9.87	-	 	l	3	+	 	 						54,134			16,207			12	1	18	6			
	TOTAL	FOR PROJ NO. 2016CPT.09.22.10341.1											1					125								12			24		
					\perp							ļ													1		-				
			JOINT AT 7TH ST. TO END OF						1	1	1 .	1	1 1											1	1		1				
	1		CONCRETE PAVEMENT 0.1 MILE			- 1	I		l	1	1 ,	1	1 1							- 1				1	1	1					
2016CPT.09.23.20341.1	Forsyth :	SR 4000 UNIVERSITY PARKWAY/SR 1725 CHERRY ST-NORTH BOUND		3,4 2	MD	1.778 24	844.00	317.00		2	7	14	9	9		4,813				844				317							
												1																			
	1		SOUTHBOUND FROM PAVEMENT			1	1		1	1	1 ,		1 1						1												
	1.	.	JOINT AT 0.1 MILE NORTH OF 27TH ST. TO PAVEMENT JOINT AT 5TH ST		, ,,,	1 070	1675.00	E80.00	١.,	1		17		30	ا ا	5,924				1,675				589							
		TOTAL FOR MAP NO. 3	31. TO PAVENIENT JOINT AT STR ST	Г. 3,4 2	2 MD	1.978 24 3.756	1,675.00 2,519	589.00 906	12	1 2	10	31.00	11	29.00	6	10,737				2,519				906		 	 				
			NORTHBOUND FROM PAVEMENT JT																												
	1		NEAR COLISEUM ENTRANCE TO			ı	1				1 .		1																		
2016CPT.09.23.20341.1	Forsyth	4 SR 4000/SR 1725 UNIVERSITY PARKWAY NORTHBOUND	PAVEMENT JT. AT N. CHERRY ST. EXT., INCLUDES POLO ROAD RAMPS	S 5,5A,6	2 MD	3.241 24	.		1	1			1 .			10,083	6,415			2,017				300	12			16	16	22	7
2220011.03.23.20341.1		and the state of t	The state of the s	1,,,,,,	1 1					T	 		1																		
			SOUTHBOUND FROM PAVEMENT J						1	1			1 .							1											
			AT N. CHERRY ST. EXT. TO PAVEMEN				1		1	1	1		1 4							1			1					1			
		и и	JT. NEAR COLISEUM ENTRANCE, NCLUDES POLO ROAD RAMPS	5546	, MD	3 242 24			1	1			1 .			10,518	6,453			2,778				206	16		2	12	13	27	2
		TOTAL FOR MAP NO. 4		3,34,0	2 MD	6.483	1		 	1	1					20,601	12,868			4,795				506	28		2	28	29	49	9
T			FROM PAVEMENT JT. AT NORTH	1 1	\top				T	T	1																				
	į		POINT BLVD. SR 1528 TO PAVEMEN				1		1		1		1 .							- 1											
2015 COT OO 22 20244	-	CR 1762 INIDIANA AVE	JT. BEFORE RXR AT REYNOLDS BLVD SR 4001		, ,,,,	1 250 34	1		1			1	1			4,774	18,152			810	52		50	220		,		١,	77	14	4
2016CPT.09.23.20341.1	roisyth]	SR 1763 INDIANA AVE TOTAL FOR MAP NO. 5	3// 40/01	7,7A	2 MU	1.359 24	1	†		 	+	 	†			4,774	18,152		l	810	53		50	220	8	2	3	1	27	14	4
	Т						1			1		1																			
	1		FROM COUNTRY CLUB RD. (SR 1003				1	1	1				1	1									l								
2045507 00 22 202	F	CO 4422 JONESTOWN BOAD	THROUGH INTERSECTION TO RADIU			000	. 1		1		1	1 .	1 .	١,		2 021	6,558			274				249				l			
2016CPT.09.23.20341.1	Forsyth	6 SR 1122 JONESTOWN ROAD TOTAL FOR MAP NO. 6	AT HANES MALL BLVD. (SR 3153)	8,8A		0.646 53	-	1	<u> </u>	+	+	4	 	2		2,931 2,931	6,558		 -	274	53		l	348	+	+					
	T	10.00		+	+		1	1			1	 												T	1						
			FROM PAVEMENT JT AT YADKINVILL				1		1		1		1											1	1						
			RD. (SR 1525) TO PAVEMENT JT AT				1	1	1		1	1	1 .																	1	
2016CPT.09.23.20341.1	Forsyth	7 SR 1393 SHATTALON RD.	ROBINHOOD RD. (SR 1348)	9,10		2.585 22	-	 	ļ			 			-				 				ļ	 	 	 	 	ļ			
		TOTAL FOR MAP NO. 7	FROM PAVEMENT JT. EAST OF	+	++	4,303	+	 	 	+	+	 	 						 				 	†	1	 	 	 		<u> </u>	
			BRIDGE #96 TO PAVEMENT JT. AT			- 1	1		1		1	1	1 .															l		1	
2016CPT.09.23.20341.1	Forsyth	8 SR 1001 COUNTRYCLUB RD./SHALLOWFORD RD.	SIMS DRIVE (SR 1539)	10		0.357 22						L																			
		TOTAL FOR MAP NO. 8		+		0.357		ļ					+										ļ		 	 		ļ	ļ		
			FROM EOP PAVEMENT JT AT UNIOI				1				1	1	1 .	l									İ		1			[
			CROSS RD. (SR 2643) TO PAVEMEN					1	1		1	1	1 .]		1	
2016CPT.09.23.20341.1	Forsyth	9 SR 2693 SAWMILL RD.	JT NEAR DIER LANE (SR 4361)		2 2WU	1.149 21		1	1	1			L																		
		TOTAL FOR MAP NO. 9				1.149																									
	TOTA	L FOR PROJ NO. 2016CPT.09.23.20341.1		++	\dashv	16,335	2,519	906	12	2	10	35	11	31	6	39,043 76,6	37,578		L	8,398	106	ļ	50	1,980	36	2	5	29	56 166	63	13
	— т	1		+-+	+		-		-	+			25	I		/6,6	041			8,5	U4		 	 	 	36 T	+	T	166	I	T
<u> </u>		GRAND TOTAL	 	+-+	+	26.205	2,519	906	12	5	10	35	11	31	6	39,043	37,578	70,896	54,134	8,398	106	16,207	50	1,980	48	2	23	35	56	63	13
		GRAND IUIAL											98			76,6		125	,030	8,5	04					50			190		

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.09.22.10341.1,	19	
2016CPT.09.23.20341.1		

THERMOPLASTIC AND PAINT QUANTITIES

				THERMO	PL	AS	1 1	L	AN						ADECCOCCE	4055000000	4950000000	4070000000	4075000000	4007000000
PROJECT	COUNTY	МАР	ROUTE	DESCRIPTION	ТҮР		LANE TYPE	LENGTH	WIDTH		4" YELLOW POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	6" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	6" YELLOW POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	4847120000-E 12" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS)	485000000-E REMOVAL OF PAVEMENT MARKING LINES (4")	4855000000-E REMOVAL OF PAVEMENT MARKING LINES (6")	486000000-E REMOVAL OF PAVEMENT MARKING LINES (8")	487000000-E REMOVAL OF PAVEMENT MARKING LINES (24")	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	SNOW PLOWABLE MARKERS
NO		NO			NO					LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA
2016CPT.09.22.10341.1	Forsyth	1	US 52/NC 8 NORTH BOUND	BEGIN NORTHBOUND AT PAVEMENT JT. AT EXIT# 110B TO PAVEMENT JT NORTH OF BRIDGE # 247 OVERPASS		2	MD	1.006	26		-	-	-				-			181
		и	US 52/NC 8 SOUTH BOUND	BEGIN SOUTHBOUND AT PAVEMENT JT. NORTH OF BRIDGE # 247 LIBERTY ST. OVERPASS TO PAVEMENT JT. SOUTH OF BRIDGE # 218 OVERPASS	1	2	MD	1.008	26											291
2016CPT.09.22.10341.1	Foreith	2	TOTAL FOR MAP NO. 1 1-40 BUS/US421 NORTH BOUND	NORTHBOUND FROM BRIDGE #264 OVER CRAFTON ST. TO GRASS GORE AT I-40 WEST BOUND/US421 NORTH BOUND RAMP EXIT 1	2	2	MD	4.011	26			2,375	1,685	305		4,232				472 973
2010011.03.22.10341.1	Totsytti	и п	I-40 BUS/US421 SOUTH BOUND	SOUTHBOUND FROM PAVEMENT JT AT ON RAMP FROM WEST BOUND I- 40 TO BRIDGE #264 OVER CRAFTON ST.	2							2,335	1,685	332		4,160			3	898
			TOTAL FOR MAP NO. 2					7.856 9.87				4,710 4,710	3,370 3,370	637 637		8,392 8,392			3	1,871 2,343
TOTAL FOR PROJ NO. 2016CPT.09.22.10341.1								5.67			T		080			5,552				
2016CPT.09.23.20341.1	Forsyth	3	SR 4000 UNIVERSITY PARKWAY/SR 1725 CHERRY ST-NORTH BOUND	NORTHBOUND FROM PAVEMENT JOINT AT 7TH ST. TO END OF CONCRETE PAVEMENT 0.1 MILE NORTH OF 27TH ST.	3,4	2	MD	1.778	24	4,813	4,519				9,332		844	317		
		"	" TOTAL FOR MAP NO. 3	SOUTHBOUND FROM PAVEMENT JOINT AT 0.1 MILE NORTH OF 27TH ST. TO PAVEMENT JOINT AT 5TH ST.	3,4	2	MD	1.978 3.756		5,924 10,737	5,139 9,658				11,063 20,395		1,675 2,519	589 906		
2016CPT.09.23.20341.1	Forsyth	4	SR 4000/SR 1725 UNIVERSITY PARKWAY NORTHBOUND	NORTHBOUND FROM PAVEMENT JT. NEAR COLISEUM ENTRANCE TO PAVEMENT JT. AT N. CHERRY ST. EXT., INCLUDES POLO ROAD RAMPS	5,5A,6	2	MD	3.241	24											
		и	n	SOUTHBOUND FROM PAVEMENT JT AT N. CHERRY ST. EXT. TO PAVEMENT JT. NEAR COLISEUM ENTRANCE, NCLUDES POLO ROAD RAMPS	5,5A,6	2	MD	3.242												
2016CPT.09.23.20341.1	Forsyth	5	TOTAL FOR MAP NO. 4 SR 1763 INDIANA AVE TOTAL FOR MAP NO. 5	FROM PAVEMENT JT. AT NORTH POINT BLVD. SR 1528 TO PAVEMENT JT. BEFORE RXR AT REYNOLDS BLVD. SR 4001	7,7A	2	MU	1.359 1.359	24											
2016CPT.09.23.20341.1	Forsyth	6	SR 1122 JONESTOWN ROAD TOTAL FOR MAP NO. 6	FROM COUNTRY CLUB RD. (SR 1001) THROUGH INTERSECTION TO RADIUS AT HANES MALL BLVD. (SR 3153)	8,8A	5	MU		53	260 260	560 560				820 820				6 6	
2016CPT.09.23.20341.1	Forsyth	7	SR 1393 SHATTALON RD. TOTAL FOR MAP NO. 7	FROM PAVEMENT JT AT YADKINVILLE RD. (SR 1525) TO PAVEMENT JT AT ROBINHOOD RD. (SR 1348)	9,10	2	2WU	2.585 2.585	22											
2016CPT.09.23.20341.1	Forsyth	8	SR 1001 COUNTRYCLUB RD./SHALLOWFORD RD. TOTAL FOR MAP NO. 8	FROM PAVEMENT JT. EAST OF BRIDGE #96 TO PAVEMENT JT. AT SIMS DRIVE (SR 1539)	10	2	2WU	0.357 0.357	22											
2016CPT.09.23.20341.1	Forsyth	9	SR 2693 SAWMILL RD. TOTÁL FOR MAP NO. 9	FROM EOP PAVEMENT JT AT UNION CROSS RD. (SR 2643) TO PAVEMENT JT NEAR DIER LANE (SR 4361)	11	2	2WU	1.149 1.149												
TOTAL FOR PROJ NO. 2016CPT.09.23.20341.1							16.335		10,997	10,218		İ		21,215		2,519	906	6		
			GRAND TOTAL					26.205		10,997	10,218	4,710	3,370	637	21,215	8,392	2,519	906	9	2,343

PROJ. REFERENCE NO. SHEET NO. 2016CPT.09.22.10341.1, Etc. TMP-1



LEGEND

├─ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.

NO REQUIRED STATIONARY SIGNING FOR THE

-Y- LINE SIGNING

FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.





PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

SIGNING NOTES AND PLACEMENT PER DIRECTION

LOWSOFT SHOULDER

SP 13107

48" X 48"

ROAD UNDER CONST SP 13106 48" X 48"

ROAD

WORK

AHEAD W20-1 48" X 48"

(1)

THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT SP 13106 48" X 48" INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.

ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

W7-3aP #2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH.
24"X 18" ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)

END ROAD WORK G20-2 A 48" X 24"

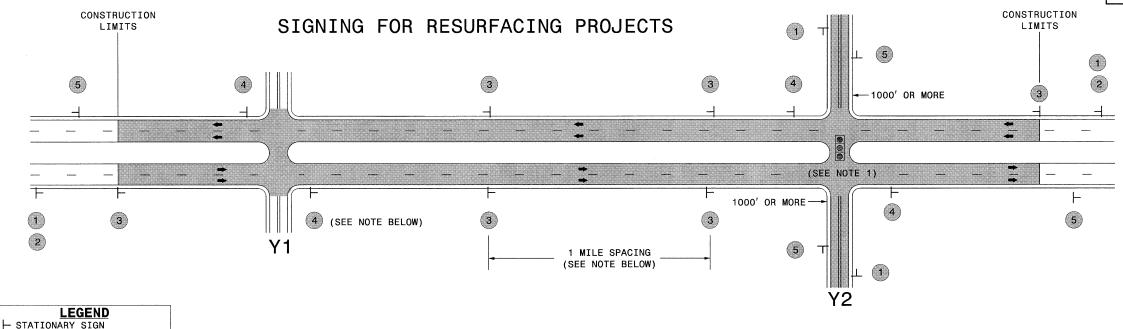
PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.



RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS

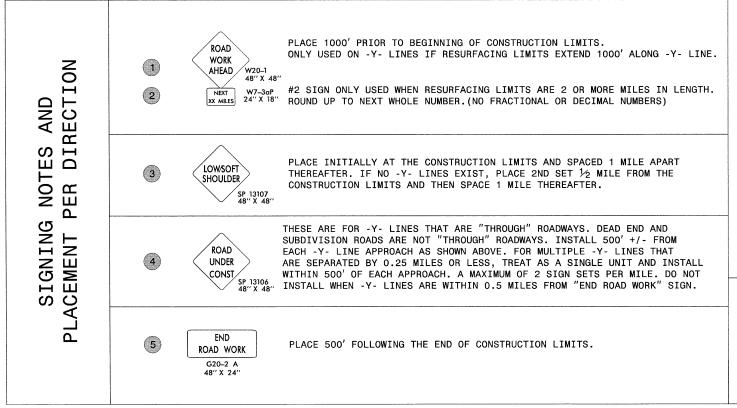
rmgarrett/Downloads/Kesurtacing_AdvWarn_ZLn (Z).dgr prrett

PROJ. REFERENCE NO. SHEET NO. 2016CPT.09.22.10341.1, Ftc



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING



NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.





PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER

NOTES:

1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.



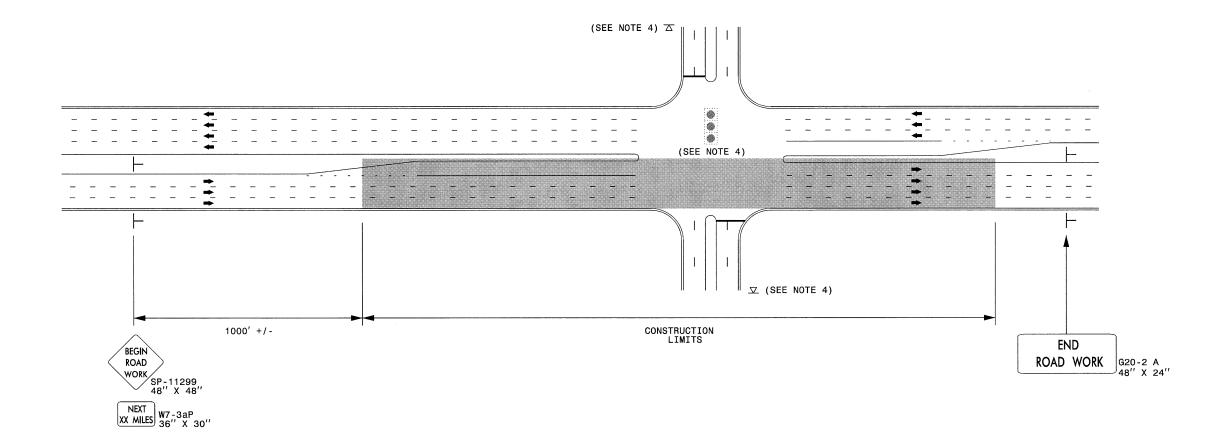
RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS

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← DIRECTION OF TRAFFIC FLOW

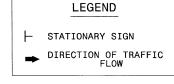
PROJ. REFERENCE NO. SHEET NO. 2016CPT.09.22.10341.1, Etc. TMP-3

URBAN / SUBURBAN WORKZONES



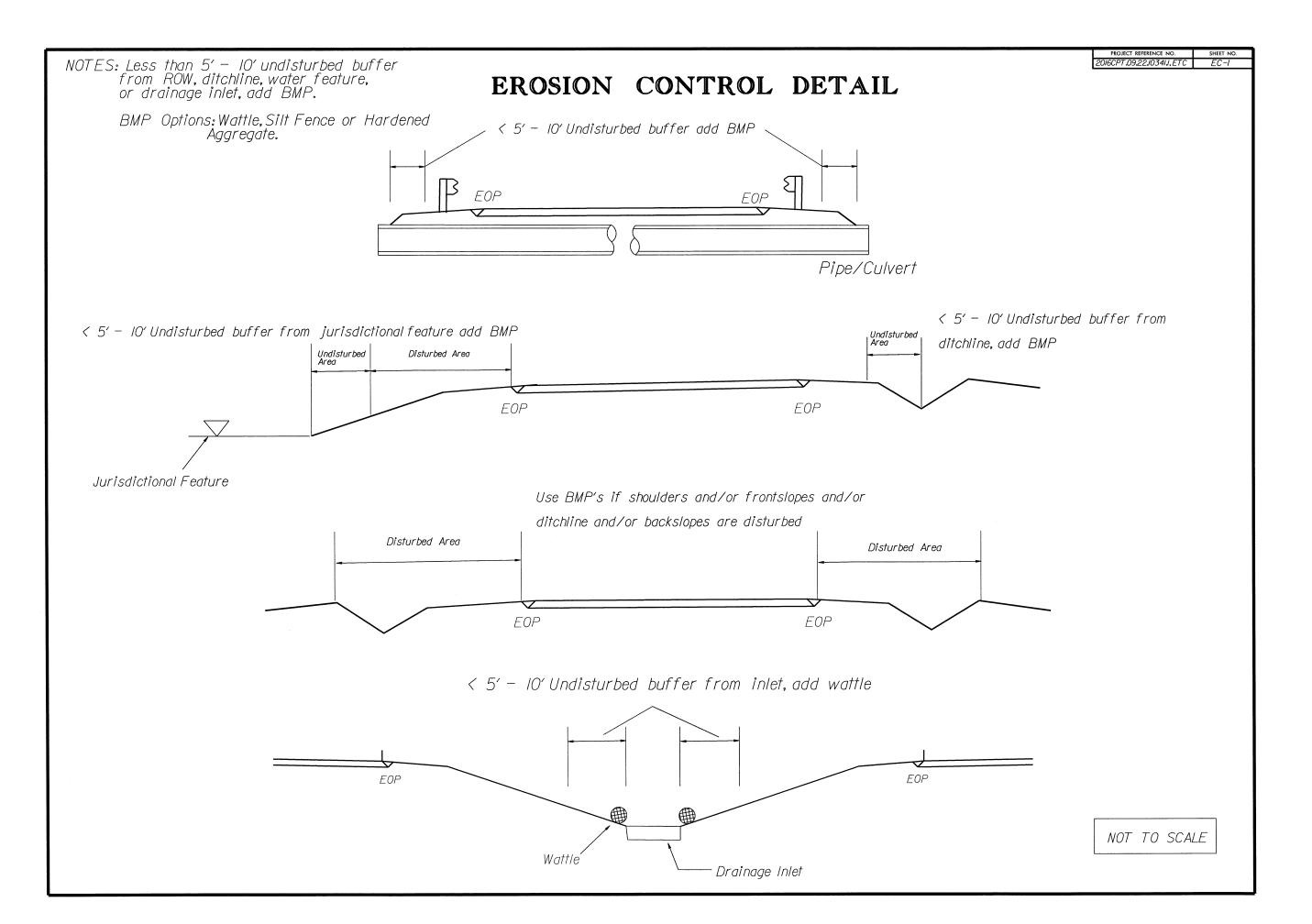
NOTES:

- 1) $48" \times 48"$ SIZED SIGNS (SP- 11299) MAY BE REDUCED TO $36" \times 36"$ ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2^\prime AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 W/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.



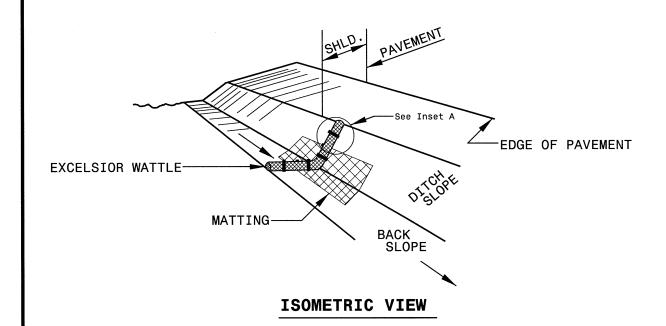


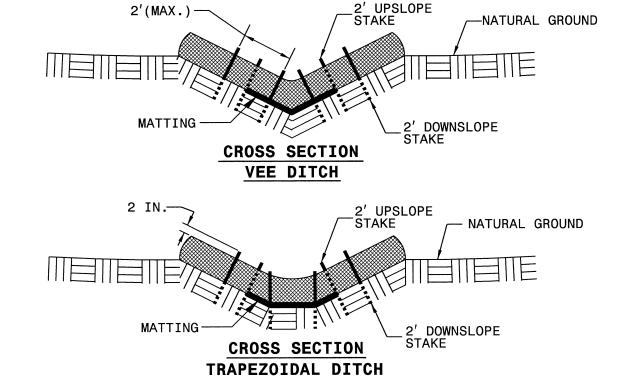
RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES



PROJECT REFERENCE NO. SHEET NO.

WATTLE DETAIL





NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

 $\underline{\text{ONLY}}$ INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

