

RESURFACING MAPS - COLUMBUS COUNTY

COLUMBUS COUNTY







RESURFACING MAPS - COLUMBUS COL

TYPICAL SECTIO

31'

NC 410-A - FROM SMITH ST. TO





	6CR.10241.81	2
JNTY		
ON NO. 1 O RAILROAD AVE.		
± 11	0.5'	
existing pavement and base (M2)		
E COURSE AS SHOWN. FILL BACK FL 'H MILLING, BUT PRIOR TO PLACEMI APPROACHES & RR CROSSINGS, AS NE SECTIONS, CURB RADII, AND ALI AS DIRECTED BY THE ENGINEER. S	USH WITH ENT OF S NEEDED, L PUBLIC SEE DETAIL 4.	
I F		
t an average rate of 160 nounds = -	r cauaro vard	
	de por equare yerd	
	de per equare vard	
an average rate of 627 pounds per	square vard.	
an average rate of 627 pounds per	square yard for 2' widening at	
of the Gutter Pan.		
y Typical, for inside curve widening.		
p of the Curb & Gutter by the thickn	ess of the Proposed Overlay.	
the roadway, or as Directed by the	Engineer.	
12', or as Directed by the Engineer	r.	
CALE		

TYPICAL SECTION NO. 2 NC 410-A - FROM RAILROAD AVE. TO 2nd AVE. 30' (C1) VARIABLE VARIABLE CROSS SLOPE CROSS SLOPE 47474 EXISTING PAVEMENT AND BASE

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NOTE:

L

- 1. INCLUDES MILLING ON ASPHALT BRIDGE DECKS, BRIDGE APPROACHES & RR CROSSINGS, AS NEEDED, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 3.
- 2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, CURB RADII, AND ALL PUBLIC ROADWAY INTERSECTIONS (NCDOT & MUNICIPALITY), OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 4.



	PROJECT REFERENCE NO.	SHEET NO.
	6CR.10241.81	3
	TYPICAL SECTION NO. 3 NC 410-A - FROM 2nd AVE, TO US 74 BUS, (STRAWBERRY BLVD.)	
	31'	
-	±7'	
	VARIABLE VARIABLE CROSS SLOPE CROSS SLOPE	
∖ <u>ਇ</u> ਠਨ	EX. CONCRETE EXISTING PAVEMENT	
7		
(E1)		
	NOTES: 1. FILL DEEP MILLED AREAS WITH BASE AND INTERMEDIATE COURSE AS SHOWN. FILL BACK	
	FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE AFTER FULL WIDTH MILLING, BUT PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.	
	2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, CURB RADII, AND ALL PUBLIC ROADWAY INTERSECTIONS (INCOOT & MUNICIPALITY), OR AS DIRECTED BY THE	
	ENGINEER. SEE DETAIL 4.	
	PAVEMENT SCHEDULE	
C1	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.	
D1	Proposed approximately 3½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 399 pounds per square yard.	
D2	Proposed approximately 2½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 285 pounds per square yard.	
E1	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard.	
E0	Proposed approximately 5 ¹ / ₂ " of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of	\neg
E2	627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.	
M1	Milling Depth 1½" for the entire width of the roadway.	
M2	Milling Depth of an additional 9", for a width as shown in the typical, from the edge of the Gutter Pan.	
M3	Milling Depth 1½" for the entire width of the roadway including the Gutter Pan.	
M4	Milling Depth ³ / ₄ " for the entire width of the roadway for roadway profile correction.	
M5	Milling existing soil shoulder, to a depth of 5½", with a width of 2' where indicated by Typical, for inside curve widening.	
M6	Milling Depth 0" - $1\frac{1}{2}$ " at the edge of Curb & Gutter. Milling shall extend below the lip of the Curb & Gutter by the thickness of the Proposed Overlay.	
M7	Milling Depth 0" - $1\frac{1}{2}$ " at all Bridge and Railroad Approaches, for the entire width of the roadway, or as Directed by the Engineer.	
M8	Milling Depth $2\frac{1}{2}$ " at all designated distressed areas, with a variable width from 9' to 12', or as Directed by the Engineer.	
S	Shoulder Reconstruction as directed by the Engineer.	
	DRAWINGS NOT TO SCALE	

TYPICAL SECTION NO. 4

NC 410-B - FROM US 74 BUS. TO PVT. CHANGE @ S. SIDE OF BRIDGE #400 & FROM PVT. CHANGE @ N. SIDE OF BRIDGE #400 TO CJ 0.1 MI. N. OF SR 1572



NOTES: 1. INCLUDES 2' WIDENING ON THE INSIDE RADIUS OF ALL CURVES, PROVIDED ADEQUATE SHOULDER WIDTH EXISTS. ENGINEER WILL IDENTIFY CURVES TO BE WIDENED IN THE FIELD. SEE DETAIL 1.
 INCLUDES MILL & FILL PAVEMENT REPAIR WHERE IDENTIFIED BY ENGINEER. SEE DETAIL 2.

- 3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, CURB RADII, AND ALL PUBLIC ROADWAY INTERSECTIONS (NCDOT & MUNICIPALITY), OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 4.

TYPICAL SECTION NO. 5

NC 410-B - FROM PVT. CHANGE @ S. SIDE OF BRIDGE #400 TO PVT. CHANGE @ N. SIDE OF BRIDGE #400





(M4)

4'-10'

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NOTES: 1. INCLUDES MILLING ON ASPHALT BRIDGE DECKS, BRIDGE APPROACHES & RR CROSSINGS, AS NEEDED, OR

INCLUDES MILLING ON ASTRALT BRIDGE DETAIL 3.
 INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, CURB RADII, AND ALL PUBLIC ROADWAY INTERSECTIONS (NCDOT & MUNICIPALITY), OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 4.



DETAIL 1 2' INSIDE CURVE WIDENING

NOTES: 1. CONSTRUCT CURVE WIDENING ON ALL CURVES, PROVIDED ADEQUATE SHOULDER

EXISTS, OR AS DIRECTED BY ENGINEER.
 MAINTAIN LANE WIDTHS AND WHITE EDGE LINE PLACEMENT AS SHOWN. CURVE WIDENING SHOULD ACT AS A PAVED SHOULDER, NOT ADDITIONAL LANE WIDTH.

	PAVEMENT
C1	Proposed approximately 1½" of Asphalt Concre 168 pounds per square yard.
D1	Proposed approximately 3½" of Asphalt Concre rate of 399 pounds per square yard.
D2	Proposed approximately 2½" of Asphalt Concre rate of 285 pounds per square yard.
E1	Proposed approximately 5½" of Asphalt Concre 627 pounds per square yard.
E2	Proposed approximately $5\frac{1}{2}$ " of Asphalt Concre 627 pounds per square yard for 2' widening at in
M1	Milling Depth $1\frac{1}{2}$ " for the entire width of the road
M2	Milling Depth of an additional 9", for a width as s
M3	Milling Depth $1\frac{1}{2}$ " for the entire width of the road
M4	Milling Depth $\frac{3}{4}$ " for the entire width of the road
M5	Milling existing soil shoulder, to a depth of $5\frac{1}{2}$ ", curve widening.
M6	Milling Depth 0" - $1\frac{1}{2}$ " at the edge of Curb & Gut Gutter by the thickness of the Proposed Overlay
M7	Milling Depth 0" - $1\frac{1}{2}$ " at all Bridge and Railroad Directed by the Engineer.
M8	Milling Depth 2 ^½ " at all designated distressed an by the Engineer.
S	Shoulder Reconstruction as directed by the Eng
	DRAWINGS N

TYPICAL

US 701 BUS. -

	PROJECT REFERENCE NO.	SHEET NO.
]	6CR.10241.81	4
SECTION NO 6		
FROM SC LINE TO NC 410		
	1	
38'		
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CROSS SLOPE	<u>ا آ آ ا</u>
		ام <u>م</u> به ا
PAVEMENT AND BASE		
	(M1)	
NDS OF MAIN LINE SECTIONS, CURE	RADII, AND ALL PUBLIC	
NICIPALITY), OR AS DIRECTED BY TI	HE ENGINEER. SEE DETAIL 4.	
		_
SCHEDULE		
ete Surface Course, Type S-9.	5-B, at an average rate of	
ete Intermediate Course, Type	I-19.0-B, at an average	
ta latama diata Osuma . Tura		_
ete Intermediate Course, Type	а г-19.0-В, at an average	
ete Base Course, Type B-25.0	-B at an average rate of	_
10 Dabe Course, Type D 20.0	b, at an avoiago rato or	
ete Base Course, Type B-25.0	-B, at an average rate of	
nside curve radii, as Directed	by the Engineer.	
dway.		
shown in the typical, from the	edge of the Gutter Pan.	
dway including the Gutter Par).	
way for roadway profile corre	ction.	
with a width of 2' where indic	ated by Typical for inside	-
	assa by rypical, ior morue	
Itter. Milling shall extend below	v the lip of the Curb &	
у.		
d Approaches, for the entire w	idth of the roadway, or as	
reas, with a variable width fro	m 9' to 12', or as Directed	
ginoor		
ymeer.		_
IOT TO SCALE		



- NOTES:
- 1. DISTRESSED AREAS TO BE REPAIRED BY MILL & FILL SHALL BE DESIGNATED BY THE ENGINEER.
- 2. FILL MILLED AREAS WITH ASPHALT INTERMEDIATE COURSE BACK FLUSH WITH THE EXISTING ASPHALT LEFT IN PLACE, PRIOR TO PLACEMENT OF PROPOSED ASPHALT SURFACE COURSE.

MILL AS DIRECTED BY ENGINEER	-
(M7)	
	~
	(M1)







	PAVEMENT SCHEDULE
C1	Proposed approximately $1\frac{1}{2}$ " of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.
D1	Proposed approximately $3\frac{1}{2}$ " of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 399 pounds per square yard.
D2	Proposed approximately $2\frac{1}{2}$ " of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 285 pounds per square yard.
E1	Proposed approximately $5\frac{1}{2}$ " of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard.
E2	Proposed approximately $5\frac{1}{2}$ " of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.
M1	Milling Depth $1\frac{1}{2}$ " for the entire width of the roadway.
M2	Milling Depth of an additional 9", for a width as shown in the typical, from the edge of the Gutter Pan.
M3	Milling Depth 1½" for the entire width of the roadway including the Gutter Pan.
M4	Milling Depth $\frac{3}{4}$ " for the entire width of the roadway for roadway profile correction.
M5	Milling existing soil shoulder, to a depth of $5\frac{1}{2}$ ", with a width of 2' where indicated by Typical, for inside curve widening.
M6	Milling Depth 0" - $1\frac{1}{2}$ " at the edge of Curb & Gutter. Milling shall extend below the lip of the Curb & Gutter by the thickness of the Proposed Overlay.
M7	Milling Depth 0" - $1\frac{1}{2}$ " at all Bridge and Railroad Approaches, for the entire width of the roadway, or as Directed by the Engineer.
M8	Milling Depth $2\frac{1}{2}$ " at all designated distressed areas, with a variable width from 9' to 12', or as Directed by the Engineer.
S	Shoulder Reconstruction as directed by the Engineer.
	DRAWINGS NOT TO SCALE



DETAIL 5 SHOULDER RECONSTRUCTION

NOTES:

- 1. SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM ROADWAY.
- 2. AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE.
- 3. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
- 4. REQUIRED BORROW MATERIAL MAY BE OBTAINED BY THE CONTRACTOR FROM WIDENING OPERATIONS WITHIN THE PROJECT LIMITS, FROM NCDOT APPROVED BORROW PITS OR FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

	PAVEMENT SCHEDULE
C1	Proposed approximately 1½" of Asphalt Concrete Surface Course, Type S-9.5-B, at an average rate of 168 pounds per square yard.
D1	Proposed approximately 3½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 399 pounds per square yard.
D2	Proposed approximately 2½" of Asphalt Concrete Intermediate Course, Type I-19.0-B, at an average rate of 285 pounds per square yard.
E1	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard.
E2	Proposed approximately 5½" of Asphalt Concrete Base Course, Type B-25.0-B, at an average rate of 627 pounds per square yard for 2' widening at inside curve radii, as Directed by the Engineer.
M1	Milling Depth $1\frac{1}{2}$ " for the entire width of the roadway.
M2	Milling Depth of an additional 9", for a width as shown in the typical, from the edge of the Gutter Pan.
M3	Milling Depth 1½" for the entire width of the roadway including the Gutter Pan.
M4	Milling Depth $rac{3}{4}$ " for the entire width of the roadway for roadway profile correction.
M5	Milling existing soil shoulder, to a depth of 5 $\frac{1}{2}$ ", with a width of 2' where indicated by Typical, for inside curve widening.
M6	Milling Depth 0" - 1½" at the edge of Curb & Gutter. Milling shall extend below the lip of the Curb & Gutter by the thickness of the Proposed Overlay.
M7	Milling Depth 0" - 1 ¹ / ₂ " at all Bridge and Railroad Approaches, for the entire width of the roadway, or as Directed by the Engineer.
M8	Milling Depth 21/2" at all designated distressed areas, with a variable width from 9' to 12', or as Directed by the Engineer.
S	Shoulder Reconstruction as directed by the Engineer.
	DRAWINGS NOT TO SCALE



AS DIRECTED BY THE ENGINEER.

DETAIL 4 Y-LINE / BUTT JOINT MILLING

NOTES: 1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, CURB RADII, AND ALL PUBLIC ROADWAY INTERSECTIONS (NCDOT & MUNICIPALITY), OR

2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.

DETAIL 7 GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

Contractor shall place the new pavement markings in accordance with this table and detail unless otherwise directed by the Engineer.

TWO LANE -	TWO WAY ROADV	VAY - 55 MPH
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH
18'	9' *	0'
20'	10' *	0'
22'	10'	1'
24'	10'	2'
26'	11'	2'
28'	12'	2'
32'	12'	4'
* May vary due to pay	vement width	

TWO LANE - TWO WAY ROADWAY 50 MPH OR LESS									
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH							
18'	9' *	0'							
20'	10' *	0'							
22'	10'	1'							
24'	10'	2'							
26'	11'	2'							
28'	11'	3'							
32'	11'	5'							
* May vary due to pay	vement width								







- BACKFILL SHOULDER WITH APPROVED MATERIAL. 2.
- THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED 3. DRIVEWAYS AND SIDE STREETS.

PROJECT REFERENCE NO.	SHEET NO.
6CR.10241.81	7



URBAN / SUBURBAN WORKZONES



NOTES:

- 1. 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 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' 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.

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW

	PROJECT REFERENCE NO.	SHEET NO.
	6CR.10241.81	9
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END		
ROAD WORK		
G20-2 A 48" X 24"		
SOF NORTH CHAN		
	RESURFACING ADV	ANCE
* (***********************************	WARNING SIGNS	FOR
WORK NO	URBAN / SUBURE	BAN
Print of the	FACILITIES	
NE TRANSP CO	1	
TRATY		



															PROJ	ECT NO.	SHEET NO.	TOTAL NO.	
SUMMARY	YOF	QUANTIT	ΓIΕ	S											6CR.1	0241.81	1	2	
PROJECT COUNTY MAP	ROUTE	DESCRIPTION	TYP LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	GENERIC GRADING ITEM	SHOULDER RECONSTRUCTION	%" MILLING	1½" MILLING	2½" MILLING	9" MILLING	0" TO 1½" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0B	INTERMEDIATE COURSE, 119.0B	SURFACE COURSE, S9.5B	
NO NO	0		NO					TON	SMI	SY	SY	SY	SY	SY	SY	TONS	TONS	TONS	
6CR.10241.81 Columbus 1	NC 410-A	FROM SMITH ST. TO RR AVE.	1 3	B MU	NO	NO	0.34	31			6,183		4,189		444	1,313	836	645	
TOTAL FOR MAP	NO. 1		2 2	2///1	NO	NO	0.34	20			6,183		4,189		444	1,313	836	645	
TOTAL FOR MAP	NO 2	FROM RRAVE. TO 2ND AVE.	2 2	200	NU	NO	0.19	30			3,344				178			331	
	10.2	FROM 2ND AVE. TO US 74					0.10				0,044							001	
6CR.10241.81 Columbus 3	NC 410-C	BUS.	3 3	8 MU	NO	NO	0.48	31			8,730		3,942		533	1,236	786	885	
TOTAL FOR MAP	NO. 3						0.48				8,730		3,942		533	1,236	786	885	
CCD 10241 81 Columbus 1	NC 440 D	FROM US 74 BUS. TO BEGIN	4 2	0.000	NO	NO	2.02	25 674	4.00	22.200		5.055			207	00	760	2,020	
TOTAL FOR MAP	NO 4	GUTTER S. OF BRIDGE 400	4 2	200	NU	NO	2.02	23 674 674	4.00	32,290		5,355 5 355			207	96	763	3,039	
TOTALTOK	10.4	FROM BEGIN GUTTER S. OF					2.02	014	4.00	52,250		3,333			201	50	105	3,005	
		BRIDGE 400 TO END GUTTER																	
6CR.10241.81 Columbus 5	NC 410-E	N. OF BRIDGE 400	5 2	2 2WU	NO	NO	0.16	26 54	0.30	2,441				657	578			240	
TOTAL FOR MAP	NO. 5						0.16	54	0.30	2,441				657	578			240	
		FROM END GUTTER N. OF																	
6CR 10241 81 Columbus 6	NC 410-F	OF SR 1572	4 3	8 MU	NO	NO	0.15	38 51	0.30	3 766					133			354	
TOTAL FOR MAP	NO. 6			/			0.15	51	0.30	3,766					133			354	
6CR.10241.81 Columbus 7	US 701 BUS.	FROM SC LINE TO NC 410	62	2 2WU	NO	NO	0.79	38			17,612				222			1,542	
TOTAL FOR MAP	NO. 7						0.79				17,612				222			1,542	-
TOTAL FOR PROJ NO. 6	CR.10241.81						4.13	779	4.60	38,503	35,869	5,355	8,131	657	2,355	2,645	2,385	7,036	
																			-
GRAND TOTA	۱L						4.13	779	4.60	38,503	35,869	5,355	8,131	657	2,355	2,645	2,385	7,036	
																			1
PROJECT COUNTY MAP	ROUTE	DESCRIPTION	TYP LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2")	JUNCTION BOX (STANDARD SIZE)	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
OX COUNTY COUNTY MAP	ROUTE	DESCRIPTION	C TYP C LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF	JUNCTION BOX (STANDARD SIZE) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2) LF
LD LD LD OO A NO NC 6CR.10241.81 Columbus 1	шлоу О NC 410-А	DESCRIPTION FROM SMITH ST. TO RR AVE.	TYP LANES	Z LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH 0.34	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX TONS 137	PATCHING EXISTING PAVEMENT TONS 14	ADJ. OF MANHOLES EA 2	ADJ. OF METER OR VALVE BOX EA 2	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF	JUNCTION BOX (STANDARD SIZE) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2) LF
NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP	ш Бо NC 410-А NO: 1	DESCRIPTION FROM SMITH ST. TO RR AVE.	TYP LANES		FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	U.34	LEVELING COURSE, S9.5B TONS 31 10 10	ASPHALT BINDER FOR PLANT MIX TONS 137 137	PATCHING EXISTING PAVEMENT TONS 14 14	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2")	JUNCTION BOX (STANDARD SIZE) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
NO NO COLUMNS 1 CCR.10241.81 Columbus 1 COLUMNS 1 COLUMNS 2 COLUMNS 2 CO	D NC 410-A NO. 1 NC 410-B NO. 2	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE.	L 2 2		FINAL SURFACE TESTING REQUIRED NO	WARM MIX ASPHALT REQUIRED	HL9N31 0.34 0.34 0.19	LEVELING COURSE, S9.5B TONS 31 10 10 30	ASPHALT BINDER FOR PLANT MIX TONS 137 137 20 20	PATCHING EXISTING PAVEMENT TONS 14 14	ADJ. OF MANHOLES EA 2 2 2	ADJ. OF METER OR VALVE BOX EA 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100	JUNCTION BOX (STANDARD SIZE) EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1	2" RISER WITH WEATHERHEAD EA	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2) LF 100
NO 6CR.10241.81 Columbus 6CR.10241.81 Columbus C	D NC 410-A NO. 1 NC 410-B NO. 2	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74	LAP 1 3 2 2 2 2		FINAL SURFACE TESTING REQUIRED NO	WARM MIX ASPHALT REQUIRED NO NO	HL5N U.34 0.34 0.19 0.19	LEVELING COURSE, S9.5B TONS 31 10 10 30	ASPHALT BINDER FOR PLANT MIX TONS 137 137 20 20 20	PATCHING EXISTING PAVEMENT TONS 14 14 14	ADJ. OF MANHOLES EA 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX EA 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 100	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100	JUNCTION BOX (STANDARD SIZE) EA 1 1	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1	2" RISER WITH WEATHERHEAD EA 1 1	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2) LF 100 100
Log Log <thlog< th=""> <thlog< th=""> <thlog< th=""></thlog<></thlog<></thlog<>	MC 410-A NO. 1 NC 410-B NO. 2 NC 410-C	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS.	LAP LAP 1 3 2 2 3 3	TANE TYPE	FINAL SURFACE TESTING REQUIRED NO NO	WARM MIX ASPHALT REQUIRED NO NO	LENGLASSING CONTRIBUTION CONTRIBUTICON CONTRI CONTRIBUTICON CONTRIBUTICON CO	LEVELING COURSE, S9.5B TONS 31 10 10 30 31 20	ASPHALT BINDER FOR PLANT MIX 137 20 20 147	PATCHING EXISTING PAVEMENT 14 14 14	ADJ. OF MANHOLES EA 2 2 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX EA 2 2 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2	2" RISER WITH WEATHERHEAD EA 1 1 2	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2) LF 100 100 200
NO NO 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP	NC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS.	LAP NO 1 3 2 2 3 3		FINAL SURFACE TESTING REQUIRED NO NO	WARM MIX ASPHALT REQUIRED NO NO	U.34 0.34 0.19 0.48 0.48	LEVELING COURSE, S9.5B TONS 31 10 30 31 20 20	ASPHALT BINDER FOR PLANT MIX 137 20 20 20 147 147	PATCHING EXISTING PAVEMENT 14 14 14 19 19	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2	2" RISER WITH WEATHERHEAD EA 1 1 1 2 2 2	INDUCTIVE LOOP SAWCUT LF 325 325 1,250 1,250	LEAD-IN CABLE (14-2) LF 100 100 200 200
Line Line NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus 3 TOTAL FOR MAP	MC 410-A NO. 1 NC 410-A NO. 2 NC 410-C NO. 3	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN	L Same NO 1 3 2 2 3 3 4 0		FINAL SURFACE TESTING REQUIRED NO NO	WARM MIX ASPHALT REQUIRED NO NO	U.34 0.34 0.19 0.19 0.48 0.48	LEVELING COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 20 147 147	PATCHING EXISTING PAVEMENT 14 14 14 19 19	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2	2" RISER WITH WEATHERHEAD EA 1 1 2 2 2	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line NO NC 6CR.10241.81 Columbus TOTAL FOR MAP 6CR.10241.81 Columbus Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus 6CR.10241.81 Columbus 6CR.10241.81 Columbus 6CR.10241.81 Columbus 6CR.10241.81 Columbus	NC 410-A NO. 1 NC 410-A NO. 2 NC 410-C NO. 3 NC 410-D	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400	NO 1 3 2 2 3 3 4 2	 Particular Particular	FINAL SURFACE TESTING REQUIRED NO NO	WARM MIX ASPHALT REQUIRED NO NO NO	HL59N31 0.34 0.19 0.19 0.48 0.48 0.48 2.02 2.02	LEVELING COURSE, S9.5B TONS 31 10 10 30 31 20 31 20 25 37 27	ASPHALT BINDER FOR PLANT MIX 137 137 20 20 20 147 147 147 226	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX EA 2 2 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2	2" RISER WITH WEATHERHEAD EA 1 1 2 2 2	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line Line NO NC NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 4 TOTAL FOR MAP	NC 410-A NO. 1 NC 410-A NO. 2 NC 410-C NO. 3 NC 410-D NO. 4	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF	NO 1 3 2 2 3 3 4 2	2 2WU 2 2WU 2 2WU 2 2WU 2 2WU 2 2WU	FINAL SURFACE TESTING REQUIRED NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO	HL59 N34 0.34 0.19 0.19 0.48 0.48 0.48 2.02 2.02	LEVELING COURSE, \$9.5B TONS 31 10 30 31 20 25 37 37	ASPHALT BINDER FOR PLANT MIX TONS 137 137 20 20 147 147 147 226 226 226	PATCHING EXISTING PAVEMENT 14 14 14 19 19 40 40	ADJ. OF MANHOLES EA 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2	2" RISER WITH WEATHERHEAD EA 1 1 2 2 2 2 2 2 2	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2) LF 100 200 200 200 200 200
Line Line Line NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 4 TOTAL FOR MAP 6CR.10241.81 Columbus 4	NO. 1 NO. 410-A NO. 1 NO. 410-B NO. 2 NO. 3 NO. 3 NO. 410-D NO. 4	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER	NO 1 3 2 2 3 3 4 2	2 2WU 2 2WU 2 2WU 2 2WU 2 2WU	FINAL SURFACE TESTING REQUIRED NO NO	WARM MIX ASPHALT REQUIRED NO NO NO	HL55 0.34 0.34 0.19 0.19 0.19 0.48 0.48 2.02 2.02	LEVELING COURSE, \$9.5B TONS 31 10 30 31 20 25 37 37	ASPHALT BINDER FOR PLANT MIX TONS 137 137 20 20 147 147 147 226 226 226	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40	ADJ. OF MANHOLES EA 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 4 TOTAL FOR MAP 6CR.10241.81 Columbus 4 TOTAL FOR MAP 6CR.10241.81 Columbus 5	D NC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3 NC 410-D NO. 4 NC 410-E	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400	NO 1 3 2 2 3 3 4 2 5 2	2 2WU 2 2WU 2 2WU 2 2WU 2 2WU 2 2WU	FINAL SURFACE TESTING REQUIRED NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO	HL55 0.34 0.34 0.19 0.19 0.48 0.48 2.02 2.02 2.02 0.16	LEVELING COURSE, S9.5B TONS 31 10 30 31 20 25 37 26	ASPHALT BINDER FOR PLANT MIX 137 137 20 20 20 147 147 226 226 226 226 14	PATCHING EXISTING PAVEMENT 14 14 14 19 19 40 40 40	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 1 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Image: Second system Image: Second system NO NO 6CR.10241.81 Columbus TOTAL FOR MAP 6CR.10241.81 Columbus Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus	MO. 2 NC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3 NC 410-D NO. 4 NC 410-D NO. 4	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400	NO 1 3 2 2 3 3 4 2 5 2		FINAL SURFACE TESTING REQUIRED NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO	HL59 0.34 0.34 0.19 0.48 0.48 2.02 2.02 2.02 0.16 0.16	LEVELING COURSE, S9.5B TONS 31 10 30 31 20 25 37 37 26	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 226 226 226 14 14 14 14	PATCHING EXISTING PAVEMENT 14 14 14 19 19 40 40 40	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 1 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT 325 325 1,250 1,250 1,250 1,250	LEAD-IN CABLE (14-2)
Image: Solution of the second system Image: Solution of the second system NO NO 6CR.10241.81 Columbus TOTAL FOR MAP 6CR.10241.81 Columbus Columbus 2 TOTAL FOR MAP 6CR.10241.81 Columbus FOR MAP S 6CR.10241.81 Columbus	MC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3 NC 410-D NO. 4 NC 410-E NO. 5	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF	NO 1 3 2 2 3 3 4 2 5 2		FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED NO NO NO	HL59 0.34 0.34 0.19 0.48 0.48 2.02 2.02 2.02 0.16 0.16	LEVELING COURSE, S9.5B Image: Tons 31 10 30 31 20 25 37 26	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 226 226 226 14 14 14 14	PATCHING EXISTING PAVEMENT 14 14 14 19 19 40 40 40	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 1 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Image: Solution of the second state of the second	MC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3 NC 410-D NO. 4 NC 410-E NC 410-E	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572	L Same NO 1 3 1 3 3 2 2 2 3 3 3 4 2 2 5 2 2 4 3 3		FINAL SURFACE TESTING REQUIRED NO NO	WARM MIX ASPHALT REQUIRED NO NO NO	HL59 0.34 0.34 0.19 0.19 0.48 0.48 2.02 2.02 2.02 0.16 0.16 0.15	LEVELING COURSE, S9.5B TONS 31 10 30 31 20 25 37 26 38	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 147 226 226 226 14 14 14 14 21	PATCHING EXISTING PAVEMENT 14 14 14 19 19 40 40	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Image: Second	MC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3 NC 410-C NO. 4 NC 410-D NO. 4 NC 410-E NO. 5 NC 410-F NO. 6	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572	L Same NO 1 3 1 3 3 2 2 2 3 3 3 4 2 2 5 2 2 4 3 3		FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED NO NO NO NO	HL5NN33 0.34 0.19 0.19 0.48 0.48 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.15	LEVELING COURSE, S9.5B TONS 31 10 30 31 20 21 20 25 37 26 38	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 147 226 226 226 14 14 14 14 14 14 21 21 21	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40 40	ADJ. OF MANHOLES 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line <thline< th=""> Line Line <thl< td=""><td>M M M M M M M M M M M M M M</td><td>DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572 FROM SC LINE TO NC 410</td><td>L Same NO 1 1 3 2 2 3 3 4 2 5 2 4 3 4 3 4 3 6 2</td><td></td><td>FINAL SURFACE TESTING REQUIRED NO NO NO NO</td><td>WARM MIX ASPHALT REQUIRED NO NO NO NO</td><td>HL5NN33 0.34 0.19 0.19 0.19 0.48 0.48 0.48 2.02 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.79</td><td>LEVELING COURSE, \$9.5B TONS 31 10 30 31 20 21 20 25 37 37 38 38</td><td>ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 147 226 226 226 14 14 14 14 14 21 21 93</td><td>PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40 40</td><td>ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2</td><td>ADJ. OF METER OR VALVE BOX</td><td>PAVED TRENCHING (1 CONDUIT, 2")</td><td>UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200</td><td>JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2</td><td>JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2</td><td>2" RISER WITH WEATHERHEAD</td><td>INDUCTIVE LOOP SAWCUT</td><td>LEAD-IN CABLE (14-2)</td></thl<></thline<>	M M M M M M M M M M M M M M	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572 FROM SC LINE TO NC 410	L Same NO 1 1 3 2 2 3 3 4 2 5 2 4 3 4 3 4 3 6 2		FINAL SURFACE TESTING REQUIRED NO NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO NO	HL5NN33 0.34 0.19 0.19 0.19 0.48 0.48 0.48 2.02 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.79	LEVELING COURSE, \$9.5B TONS 31 10 30 31 20 21 20 25 37 37 38 38	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 147 226 226 226 14 14 14 14 14 21 21 93	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40 40	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus 7 TOTAL FOR MAP 6CR.10241.81 Columbus 7 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus	M M M M M M M M M M M M M M	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572 FROM SC LINE TO NC 410	L Same NO 1 3 1 3 2 2 2 2 3 3 3 4 2 2 5 2 2 4 3 3 6 2 2	Part A Constraints of the second seco	FINAL SURFACE TESTING REQUIRED NO NO NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO NO NO	HESNUIT 0.34 0.19 0.19 0.19 0.19 0.48 0.48 2.02 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.79 0.79	LEVELING COURSE, S9.5B TONS 31 10 30 31 20 21 20 25 37 37 37 38 38	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 147 226 226 226 14 14 14 14 21 21 93 93	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40 40 40 40	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus 7 TOTAL FOR MAP 6CR.10241.81 Columbus 7 TOTAL FOR MAP 6CR.10241.81 Columbus 7 TOTAL FOR MAP 6CR.10241.81 Columbus 7 TOTAL FOR MAP	M M M M M M M M M M M M M M	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572 FROM SC LINE TO NC 410	L Same NO 1 3 1 3 2 2 2 3 3 3 3 4 2 3 5 2 3 4 3 3 6 2 3	Provide a constraint of the second se	FINAL SURFACE TESTING REQUIRED NO NO NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO NO NO NO	HESNUIT 0.34 0.19 0.19 0.19 0.48 0.48 0.48 2.02 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.79 0.79 0.79 0.79	LEVELING COURSE, S9.5B TONS 31 10 30 10 31 20 21 20 25 37 37 37 26 37 38 67	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 147 226 226 226 14 14 14 14 21 21 93 93 93 658	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40 40 40 40 20 20 20 20 20 20 20 20 20 20 20 20 20	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2 2 5	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2 2 2 2 2 5	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Image: Constraint of the second se	M NC 410-A NO. 1 NC 410-B NO. 2 NC 410-C NO. 3 NC 410-C NO. 4 NC 410-C NO. 4 NC 410-E NO. 5 NC 410-F NO. 6 US 701 BUS. NO. 7 CR.10241.81	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572 FROM SC LINE TO NC 410	L Same NO 1 3 1 3 2 2 2 3 3 3 3 4 2 3 5 2 3 4 3 3 6 2 3 6 2 3	Provide a constraint of the second se	FINAL SURFACE TESTING REQUIRED NO NO NO NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO NO NO NO	HESNUIT 0.34 0.19 0.19 0.48 0.48 2.02 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.79 0.79 0.79 4.13	LEVELING COURSE, S9.5B TONS 31 10 30 10 31 20 21 20 25 37 37 37 26 37 38 67 4 67	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 226 226 226 14 14 14 14 21 21 93 93 658	PATCHING EXISTING PAVEMENT 14 14 14 19 19 19 40 40 40 40 40	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2 5	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2 2 2 2 5	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)
Line Line NO NC 6CR.10241.81 Columbus 1 TOTAL FOR MAP 6CR.10241.81 Columbus 6CR.10241.81 Columbus 3 TOTAL FOR MAP 6CR.10241.81 Columbus 7 TOTAL FOR MAP 6CR.10241.81 Columbus 7 TOTAL FOR MAP 7 TOTAL FOR MAP 7 TOTAL FOR PROJ NO. 60	NO. 410-A NO. 1 NO. 2 NO. 2 NO. 3 NO. 410-C NO. 3 NO. 410-C NO. 4 NO. 410-C NO. 4 NO. 410-F NO. 6 US 701 BUS. NO. 7 CR.10241.81	DESCRIPTION FROM SMITH ST. TO RR AVE. FROM RR AVE. TO 2ND AVE. FROM 2ND AVE. TO 2ND AVE. FROM 2ND AVE. TO US 74 BUS. FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400 FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400 FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572 FROM SC LINE TO NC 410	L Since A Control A Contro	Provide a constraint of the second se	FINAL SURFACE TESTING REQUIRED NO NO NO NO NO	WARM MIX ASPHALT REQUIRED NO NO NO NO NO NO	HESNNJJ 0.34 0.34 0.19 0.19 0.48 0.48 2.02 2.02 2.02 0.16 0.16 0.15 0.15 0.79 0.79 4.13 4.13	LEVELING COURSE, S9.5B Image: Tons 31 10 30 31 20 25 37 26 38 38 67 67	ASPHALT BINDER FOR PLANT MIX TONS 137 20 20 147 147 226 226 226 226 14 14 14 14 21 21 21 93 93 93 658	PATCHING EXISTING PAVEMENT 14 14 19 19 19 40 40 40 40 40 20 20 20 20 20 20 20 20 20 20 20 20 20	ADJ. OF MANHOLES 2 2 2 2 2 2 2 2 2 2 3 3 3 9 9	ADJ. OF METER OR VALVE BOX	PAVED TRENCHING (1 CONDUIT, 2")	UNPAVED TRENCHING (1 CONDUIT, 2") LF 100 200 200 200 200 200 200 200 200 200	JUNCTION BOX (STANDARD SIZE) EA 1 1 2 2 2 2 2 2 2 5 5	JUNCTION BOX (OVER-SIZED, HEAVY DUTY) EA 1 1 2 2 2 2 2 2 2 2 2 2 2 5	2" RISER WITH WEATHERHEAD	INDUCTIVE LOOP SAWCUT	LEAD-IN CABLE (14-2)

														1	PR	OJECT NO.	SHEET NO.	TOTAL NO.
THE	THERMOPLASTIC AND PAINT QUANTITIES														6CR.10241.81		2	2
								441300000-E	4457000000-N	451000000-N	468500	0000-E	468600000-	E	469	95000000-E	470500000-E	471000000-Е
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	ТҮР		LANE 1 YPE LENGTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO
NO		NO			NO			SF	LS	HR	LF	LF	LF	LF	LF	LF	LF	LF
6CR.10241.81	Columbus	5 1	NC 410-A	FROM SMITH ST. TO RR AVE.	1	3 N	ЛU 0.34 🤅	1 126	1				5,250		100		150	100
TOT	AL FOR MA	AP NO.	1				0.34	126	1				5,250		100		150	100
6CR.10241.81	Columbus	2	NC 410-B	FROM RR AVE. TO 2ND AVE.	2	2 2V	NU 0.19 🤅	0 126		40			2,000				50	55
тот	AL FOR MA	<u>AP NO.</u>	2				0.19	126		40			2,000				50	55
6CR.10241.81	Columbus	3	NC 410-C	FROM 2ND AVE. TO US 74 BUS.	3	3 N	JU 0.48 ;	1 126		40	365		6,500	150	120			75
тот	AL FOR MA	AP NO.	3				0.48	126		40	365		6,500	150	120			75
6CR.10241.81	Columbus	4	NC 410-D	FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400	4	2 21	WU 2.02 :	5 226		40	21,500	650	15,200	200	240	520		250
TOTAL FOR MAP NO. 4							2.02	226		40	21,500	650	15,200	200	240	520		250
6CR.10241.81	Columbus	5	NC 410-E	FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400	5	2 21	WU 0.16 :	6 18			700		1.320	100				
TOTAL FOR MAP NO. 5				-		0.16	18			700		1.320	100					
6CR.10241.81	Columbus	6	NC 410-F	FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572	4	3 1	NU 0.15	8 17			1,900		2,500	100	100			110
тот	AL FOR MA	AP NO.	6				0.15	17			1,900		2,500	100	100			110
6CR.10241.81	6CR.10241.81 Columbus 7 US 701 BUS.			FROM SC LINE TO NC 410	6	2 2\	WU 0.79 🕻	8 126			500		9,000					
TOTAL FOR MAP NO. 7							0.79	126			500		9,000					
						4.13	765	1	120	24,965	650	41,770	550	560	520	200	590	
101AL FOR FROJ NO. 00R.10241.81									25,	615	42,320			1,080				
							4.13	765	1	120	24,965	650	41,770	550	560	520	200	590
GRAND TOTAL											25,	615	42,320			1,080		

		ТТ							472100000-E	472500000-Е		477000000-Е	481000000-E		483000000-Е	490000000-N			
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	ТҮР	LANES	LANE TYPE	WIDTH	THERMO RXR 120 M	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE III (4")	4" YELLOW PAINT	4" WHITE PAINT	16" WHITE PAINT	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS
NO		NO			NO				EA	EA	EA	EA	EA	LF	LF	LF	LF	EA	EA
6CR.10241.81	Columbus	1	NC 410-A	FROM SMITH ST. TO RR AVE.	1	3	MU 0.3	34 31	2	10					5,250		50	70	
TOTAL FOR MAP NO. 1							0.3	4	2	10					5,250		50	70	
6CR.10241.81	Columbus	2	NC 410-B	FROM RR AVE. TO 2ND AVE.	2	2 2	WU 0.1	9 30	2						2,000		50	15	
TOTA	AL FOR MA	AP NO. 3	2				0.1	9	2						2,000		50	15	
6CR.10241.81	Columbus	3	NC 410-C	FROM 2ND AVE. TO US 74 BUS.	3	3	MU 0.4	8 31		17	3				6,600	600		85	10
TOTAL FOR MAP NO. 3							0.4	8		17	3				6,600	600		85	10
6CR.10241.81	Columbus	4	NC 410-D	FROM US 74 BUS. TO BEGIN GUTTER S. OF BRIDGE 400	4	2 2	WU 2.0	2 25		12	5	2	3		15,200	21,500		200	60
TOTAL FOR MAP NO. 4						2.0)2		12	5	2	3		15,200	21,500		200	60	
6CR.10241.81	Columbus	5	NC 410-E	FROM BEGIN GUTTER S. OF BRIDGE 400 TO END GUTTER N. OF BRIDGE 400	5	2 2	WU 0.1	6 26						1,500	1,320	800		35	20
TOTAL FOR MAP NO. 5							0.1	6						1,500	1,320	800		35	20
6CR.10241.81	Columbus	6	NC 410-F	FROM END GUTTER N. OF BRIDGE 400 TO CJ 0.1 MI. N. OF SR 1572	4	3	MU 0.1	5 38		3	2	1	2		2.500	1.900		40	35
TOTAL FOR MAP NO. 6				-	-	0.1	5		3	2	1	2		2.500	1.900		40	35	
6CR.10241.81 Columbus 7 US 701 BUS. FROM SC LINE TO NC 410					6	2 2	WU 0.7	9 38						Ì	9,000	,		160	
TOTAL FOR MAP NO. 7							0.7	'9						1	9,000			160	
							4.1	3	4	42	10	3	5	1,500	41,870	24,800	100	605	125
TOTAL FOR	ROJ NO	J. 6CK.10241.81							60		•	1	66,670			730			
														1		•			
					4.1	3	4	42	10	3	5	1,500	41,870	24,800	100	605	125		
GRAND IUTAL									60				•		66	,670		7:	30