

09/08/09

See Sheet 1-A For Index of Sheets

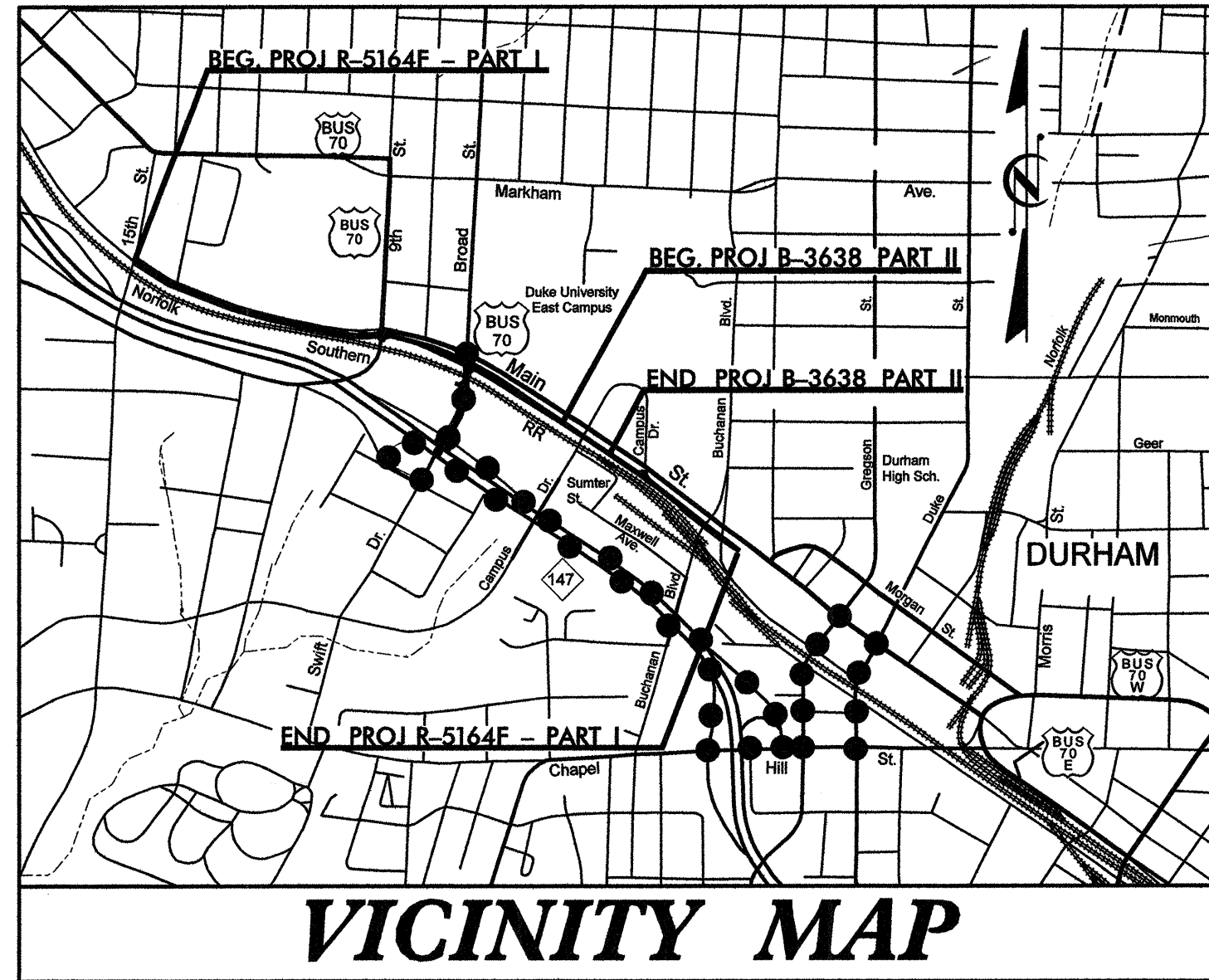
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DURHAM COUNTY

**LOCATION: BRIDGE NO. 316 OVER CAMPUS DRIVE
ON US 70 BUSINESS; US 70 BUSINESS
(MAIN STREET) FROM NINTH STREET
TO BUCHANAN STREET**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE
RESURFACING, SIGNALS, & STRUCTURE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5164F /B-3638	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33186.1.1	BRSTP-70B(2)	B-3638 (P.E.)	
33186.2.1	BRSTP-70B(2)	B-3638 (RW/Util)	
33186.3.1	BRSTP-70B(2)	B-3638 (CONST)	
45158.3.2	STP-0070(153)	R-5164F (CONST)	



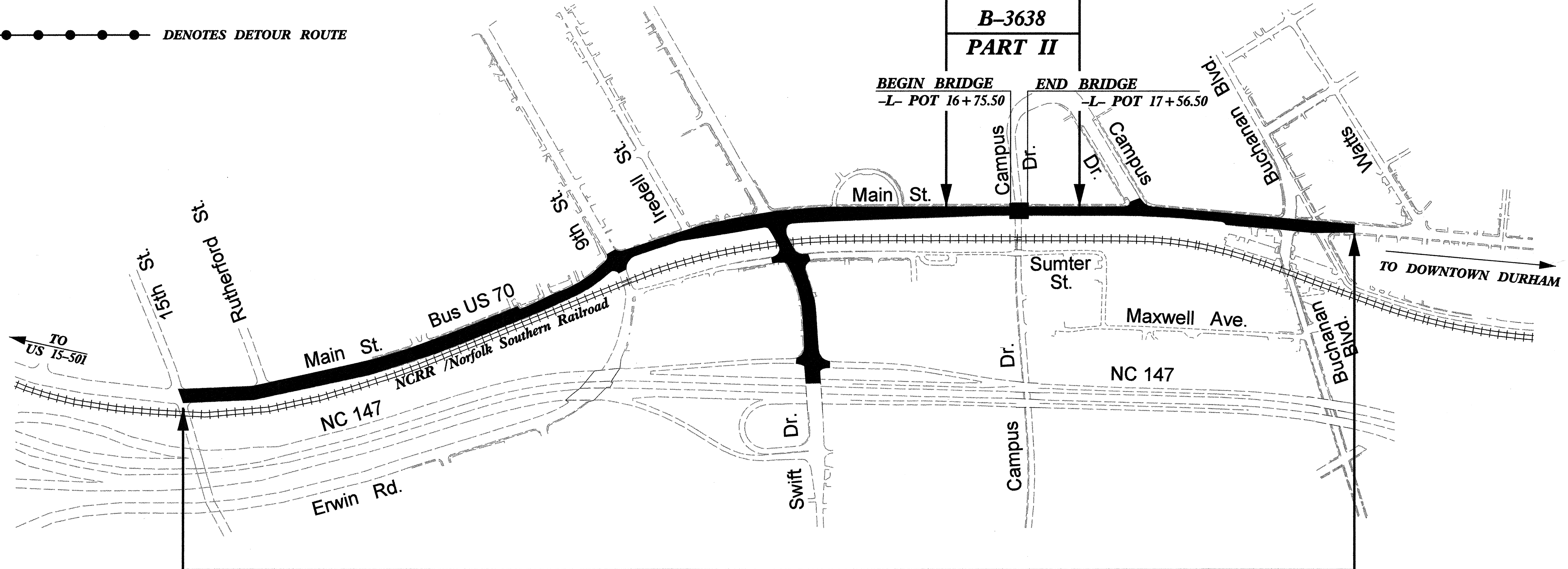
●●●●● DENOTES DETOUR ROUTE

BEGIN TIP PROJECT B-3638
-L- STA. 13+75.00

END TIP PROJECT B-3638
-L- STA. 20+00.00

B-3638
PART II

BEGIN BRIDGE -L- POT 16+75.50
END BRIDGE -L- POT 17+56.50



R-5164F - PART I

NCDOT CONTACT: BRENDA L. MOORE, P.E.
ROADWAY DESIGN - ENGINEERING COORDINATION

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-3638 /R-5164F	=	1.203 MI.
LENGTH STRUCTURES TIP PROJECT B-3638	=	0.015 MI.
TOTAL LENGTH OF TIP PROJECT B-3638 /R-5164F	=	1.218 MI.

Prepared In the Office of:
Florence & Hutcheson

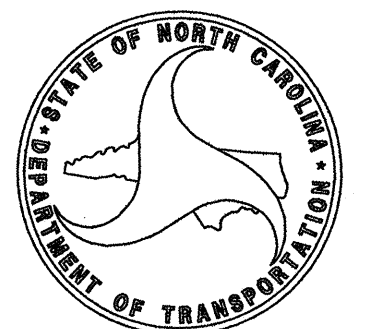
CONSULTING ENGINEERS
5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No. F-0288

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
June 18, 2010 (B-3638)

LETTING DATE:
JUNE 19, 2012

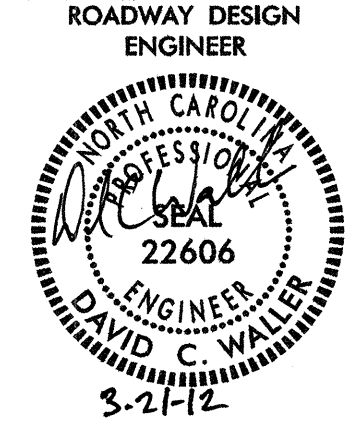
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

CONTRACT: C202436 TIP PROJECT: R-5164F /B-3638

1/19/2012
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Florence & Hutcheson, Inc.



8/17/99

R-5164F / B-3638
INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET (R-5164F / B-3638)
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
2	SUMMARY OF QUANTITIES
PART 1 (R-5164F)	
1	MAP
2 THRU 3	PAVEMENT SCHEDULE, TYPICAL SECTIONS & WEDGING DETAILS
4	SUMMARY OF QUANTITIES & THERMOPLASTIC / PAINT QUANTITIES
5	MANHOLE & VALVE BOX ADJUSTMENT DETAILS
PM-1 THRU PM-9	PAVEMENT MARKING PLANS
SIG-1 THRU SIG-11	SIGNALS PLANS
PART 2 (B-3638)	
1	TITLE SHEET
1-A	CONVENTIONAL SYMBOLS
1-B	SURVEY CONTROL SHEET
2 THRU 2-A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-B	DETAIL OF ALUMINUM ORNAMENTAL FENCE
3	DRAINAGE SUMMARY
3-A	GUARDRAIL SUMMARY, EARTHWORK SUMMARY, PAVEMENT REMOVAL / PAVEMENT BREAKING SUMMARY, CURB & GUTTER SUMMARY
4	PLAN / PROFILE SHEET
TMP-1 THRU TMP-7	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
SIG-1 THRU SIG-9	SIGNALS PLANS
UD-1 THRU UD- 2	UTILITIES PLANS
X-1	CROSS-SECTION SUMMARY
X-2 THRU X-6	CROSS-SECTIONS
S-1 THRU S-29	STRUCTURE PLANS

GENERAL NOTES: 2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 11/01/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

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

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

GUARDRAIL:
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

END BENTS:
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE Duke Energy, City of Durham, NCDOT. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

CURB RAMPS:
CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD. 848.05 AND/OR 848.06.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superlevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 4 - MAJOR STRUCTURES	
422.10	Reinforced Bridge Approach Fills
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.45	Precast Drainage Structure
840.66	Drainage Structure Steps
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.06	Curb Ramp - Existing Curb & Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202436

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

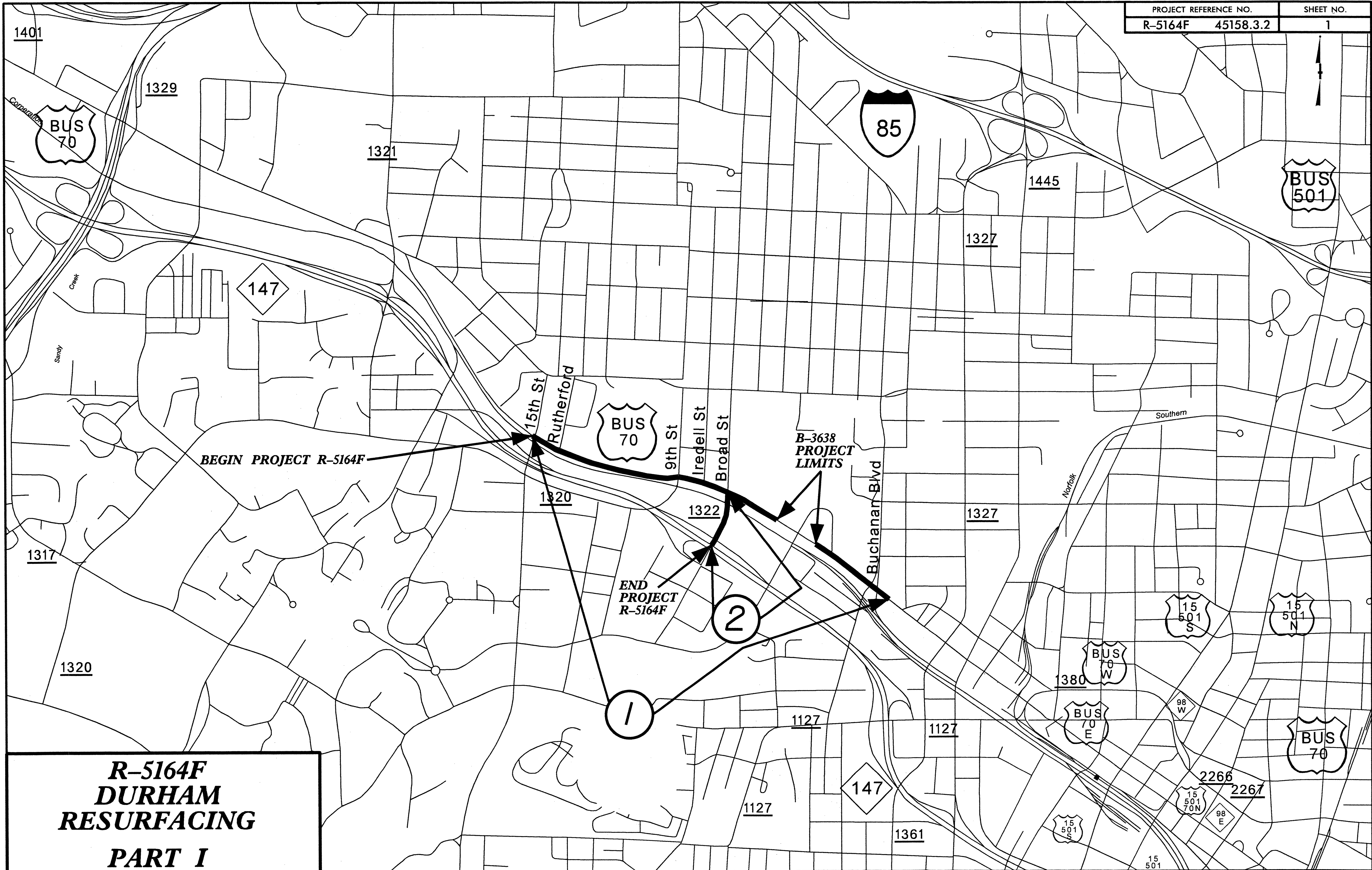
ItemNumber	Sec #	Quantity	Unit	Description
000100000-N	800	Lump Sum		MOBILIZATION
000900000-N	SP	Lump Sum		GENERIC MISCELLANEOUS ITEM PROTECTIVE CANOPY
002900000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+16.70-L)
005000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
005700000-E	226	260	CY	UNDERCUT EXCAVATION
006300000-N	SP	Lump Sum		GRADING
010600000-E	230	1,840	CY	BORROW EXCAVATION
019500000-E	265	100	CY	SELECT GRANULAR MATERIAL
019600000-E	270	200	SY	GEOTEXTILE FOR SOIL STABILIZATION
024800000-N	SP	Lump Sum		GENERIC GRADING ITEM VIBRATION MONITORING
031800000-E	300	100	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES
032000000-E	300	290	SY	FOUNDATION CONDITIONING GEOTEXTILE
033520000-E	305	64	LF	15" DRAINAGE PIPE
033530000-E	305	196	LF	18" DRAINAGE PIPE
044820000-E	310	548	LF	15" RC PIPE CULVERTS, CLASS IV
097310000-E	330	12	LF	*** WELDED STEEL PIPE, **** THICK, GRADE B IN SOIL (18", 0.500")
097330000-E	330	12	LF	*** WELDED STEEL PIPE, **** THICK, GRADE B NOT IN SOIL (18", 0.500")
099500000-E	340	30	LF	PIPE REMOVAL
109950000-E	505	100	CY	SHALLOW UNDERCUT
109970000-E	505	100	TON	CLASS IV SUBGRADE STABILIZATION
122000000-E	545	250	TON	INCIDENTAL STONE BASE
129700000-E	607	6,008	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
130800000-E	607	12,672	SY	MILLING ASPHALT PAVEMENT, **** TO ***** (1-1/2" TO 3")
148900000-E	610	760	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
149800000-E	610	810	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
151900000-E	610	2,159	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
157500000-E	620	202	TON	ASPHALT BINDER FOR PLANT MIX
170400000-E	SP	300	TON	PATCHING EXISTING PAVEMENT
200000000-N	806	4	EA	RIGHT OF WAY MARKERS
228600000-N	840	15	EA	MASONRY DRAINAGE STRUCTURES
236400000-N	840	5	EA	FRAME WITH TWO GRATES, STD 840.16
237400000-N	840	2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
237400000-N	840	3	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
237400000-N	840	4	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
259100000-E	848	340	SY	4" CONCRETE SIDEWALK
260500000-N	848	4	EA	CONCRETE CURB RAMP
275200000-E	SP	1,010	LF	GENERIC PAVING ITEM REMOVE & REPLACE 8" X 12" GRANITE CURB
283000000-N	858	13	EA	ADJUSTMENT OF MANHOLES
284500000-N	858	4	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
303000000-E	862	75	LF	STEEL BM GUARDRAIL
315000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
321500000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE III
327000000-N	SP	1	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
357500000-E	SP	105	LF	GENERIC FENCING ITEM ALUMINUM ORNAMENTAL FENCE

ItemNumber	Sec #	Quantity	Unit	Description
365600000-E	876	450	SY	GEOTEXTILE FOR DRAINAGE
440000000-E	1110	991	SF	WORK ZONE SIGNS (STATIONARY)
440500000-E	1110	352	SF	WORK ZONE SIGNS (PORTABLE)
441000000-E	1110	194	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
441500000-N	1115	2	EA	FLASHING ARROW BOARD
442000000-N	1120	5	EA	PORTABLE CHANGEABLE MESSAGE SIGN
443000000-N	1130	60	EA	DRUMS
443500000-N	1135	250	EA	CONES
444500000-E	1145	104	LF	BARRICADES (TYPE III)
445500000-N	1150	300	DAY	FLAGGER
448000000-N	1165	1	EA	TMA
450700000-E	1170	280	LF	WATER FILLED BARRIER
451000000-N	SP	640	HR	LAW ENFORCEMENT
451600000-N	1180	20	EA	SKINNY DRUM
461100000-N	SP	3	MO	GENERIC TRAFFIC CONTROL ITEM WATER FILLED BARRIER (LEFT ON PROJECT)
468500000-E	1205	8,708	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
468600000-E	1205	24,594	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
469500000-E	1205	1,622	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
469700000-E	1205	1,955	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
470500000-E	1205	100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
471000000-E	1205	667	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
472100000-E	1205	20	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
472500000-E	1205	52	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
472610000-E	1205	76	EA	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
477000000-E	1205	780	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (III)
478000000-E	1205	25	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (III)
481000000-E	1205	18,422	LF	PAINT PAVEMENT MARKING LINES (4")
482000000-E	1205	2,580	LF	PAINT PAVEMENT MARKING LINES (8")
483500000-E	1205	470	LF	PAINT PAVEMENT MARKING LINES (24")
484500000-N	1205	46	EA	PAINT PAVEMENT MARKING SYMBOL
485000000-E	1205	6,208	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
487000000-E	1205	30	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
487500000-N	1205	19	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
490000000-N	1251	10	EA	PERMANENT RAISED PAVEMENT MARKERS
490500000-N	1253	338	EA	SNOWFLOWABLE PAVEMENT MARKERS
600000000-E	1605	1,575	LF	TEMPORARY SILT FENCE
600600000-E	1610	270	TON	STONE FOR EROSION CONTROL, CLASS A
600900000-E	1610	70	TON	STONE FOR EROSION CONTROL, CLASS B
601200000-E	1610	145	TON	SEDIMENT CONTROL STONE
601500000-E	1615	0.75	ACR	TEMPORARY MULCHING
601800000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
602100000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
602400000-E	1622	200	LF	TEMPORARY SLOPE DRAINS
603000000-E	1630	130	CY	SILT EXCAVATION
603600000-E	1631	2,000	SY	MATting FOR EROSION CONTROL

ItemNumber	Sec #	Quantity	Unit	Description
603800000-E	SP	340	SY	PERMANENT SOIL REINFORCEMENT MAT
604200000-E	1632	460	LF	1/4" HARDWARE CLOTH
608400000-E	1660	1.25	ACR	SEEDING & MULCHING
608700000-E	1660	0.5	ACR	MOWING
609000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
609300000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
609600000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
610800000-E	1665	0.5	TON	FERTILIZER TOPDRESSING
611450000-N	1667	10	MHR	SPECIALIZED HAND MOWING
611700000-N	SP	18	EA	RESPONSE FOR EROSION CONTROL
704850000-E	1705	16	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)
706000000-E	1705	2,430	LF	SIGNAL CABLE
712000000-E	1705	3	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
714400000-E	1705	3	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
725200000-E	1710	1,000	LF	MESSENGER CABLE (1/4")
728800000-E	1715	20	LF	PAVED TRENCHING (***** (1, 2"))
730000000-E	1715	230	LF	UNPAVED TRENCHING (***** (1, 2"))
732400000-N	1716	4	EA	JUNCTION BOX (STANDARD SIZE)
739600000-E	1722	10	EA	1/2" RISER WITH WEATHERHEAD
742000000-E	1722	4	EA	2" RISER WITH WEATHERHEAD
744400000-E	1725	3,475	LF	INDUCTIVE LOOP SAWCUT
745600000-E	1726	6,315	LF	LEAD-IN CABLE (***** (14-2))
754100000-N	1731	1	EA	MODIFY SPLICE ENCLOSURE
757518000-N	1735	4	EA	CABLE TRANSFER
763600000-N	1745	2	EA	SIGN FOR SIGNALS
764220000-N	1743	3	EA	TYPE II PEDESTAL WITH FOUNDATION
767500000-N	1747	1	EA	LED BLANKOUT SIGN
774400000-N	1751	7	EA	DETECTOR CARD (TYPE 170)
798000000-N	SP	6	EA	GENERIC SIGNAL ITEM WOOD POLE REMOVAL

5/28/99

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BEGIN PROJECT R-5164F

END PROJECT R-5164F

B-3638 PROJECT LIMITS

**R-5164F
DURHAM
RESURFACING
PART I**

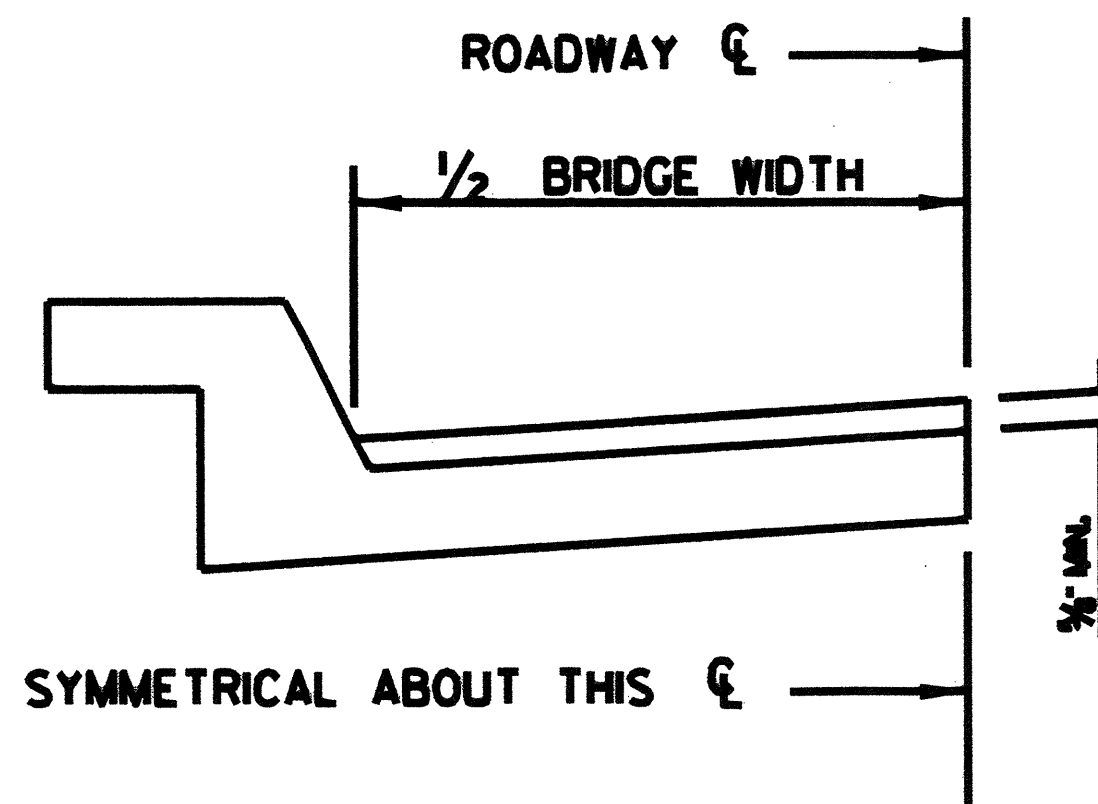
1

2

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPH. CONC. SURFACE COURSE, TYPE S9.5B. AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(V1)	MILL 1.5" IN DEPTH
(V2)	MILL 1.5" TO 3" IN DEPTH
(U)	EXISTING PAVEMENT

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
R-5164F	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45158.3.2		



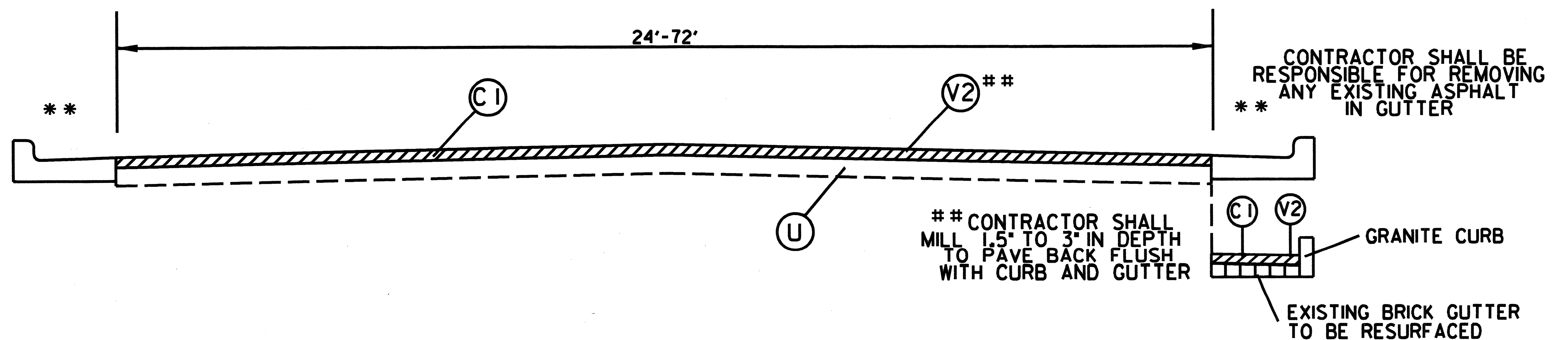
BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1 1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

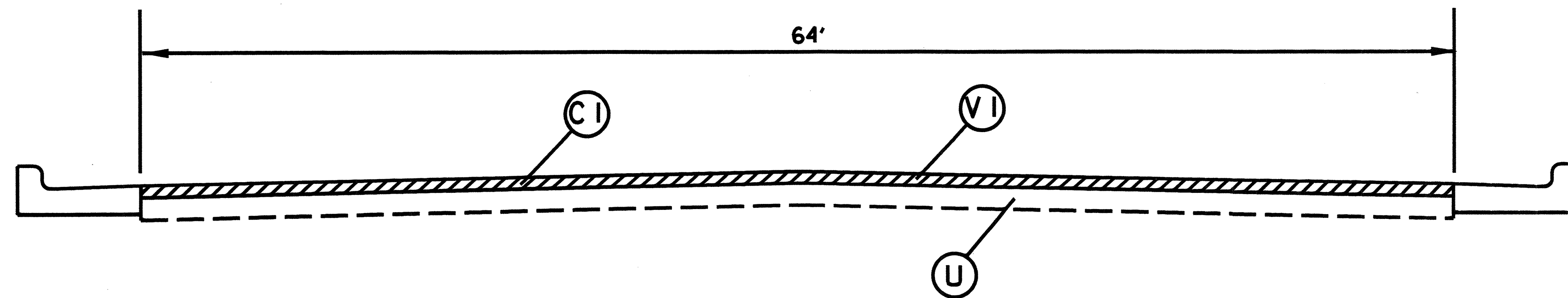


TYPICAL SECTION NO. 1

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1.5" ASPH. CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(V1)	MILL 1.5" IN DEPTH
(V2)	MILL 1.5" TO 3" IN DEPTH
(U)	EXISTING PAVEMENT

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
R-5 164F	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45 158.3.2		



TYPICAL SECTION NO. 2

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5164F 45158.3.2	4	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	1½" MILLING SY	1.5" TO 3" MILLING SY	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT TONS	CURB RAMPS EA	ADJUST MANHOLES EA	ADJUST METER OR VALVE BOX EA	PED SIGNAL HEAD (16", 1 SECTION W/ COUNT-DOWN) EA	SIGNAL CABLE LF	VEHICLE SIGNAL HEAD (12", 5 SECTION) EA	INDUCTIVE LOOP SAWCUT LF	LEAD-IN CABLE (14-2) LF	DETECTOR CARD (TYPE 170) EA		
45158.3.2	Durham	1	US 70 BUS - MAIN STREET	FROM 15TH STREET TO 9TH STREET (REMARKING ONLY)		NO	0.4	40																
		"	"	FROM 9TH STREET TO PAVEMENT JOINT EAST OF BUCHANAN (MINUS B-3638 EXCEPT FINAL PAVEMENT MARKINGS)	1	NO	0.54	40		12,672	1,153	69	200	2	10		8	1,215	2	4,380	845	6		
TOTAL FOR MAP NO. 1							0.94			12,672	1,153	69	200	2	10									
45158.3.2	Durham	2	SR 1322 - SWIFT AVENUE	FROM US 70 BUS TO NC 147	2	NO	0.16	64	6,008		556	33	100		3	4								
TOTAL FOR MAP NO. 2							0.16			6,008	556	33	100		3	4								
TOTAL FOR PROJ NO. 45158.3.2 R-5164F							1.1			6,008	12,672	1,709	102	300	2	13	4	8	1,215	2	4,380	845	6	

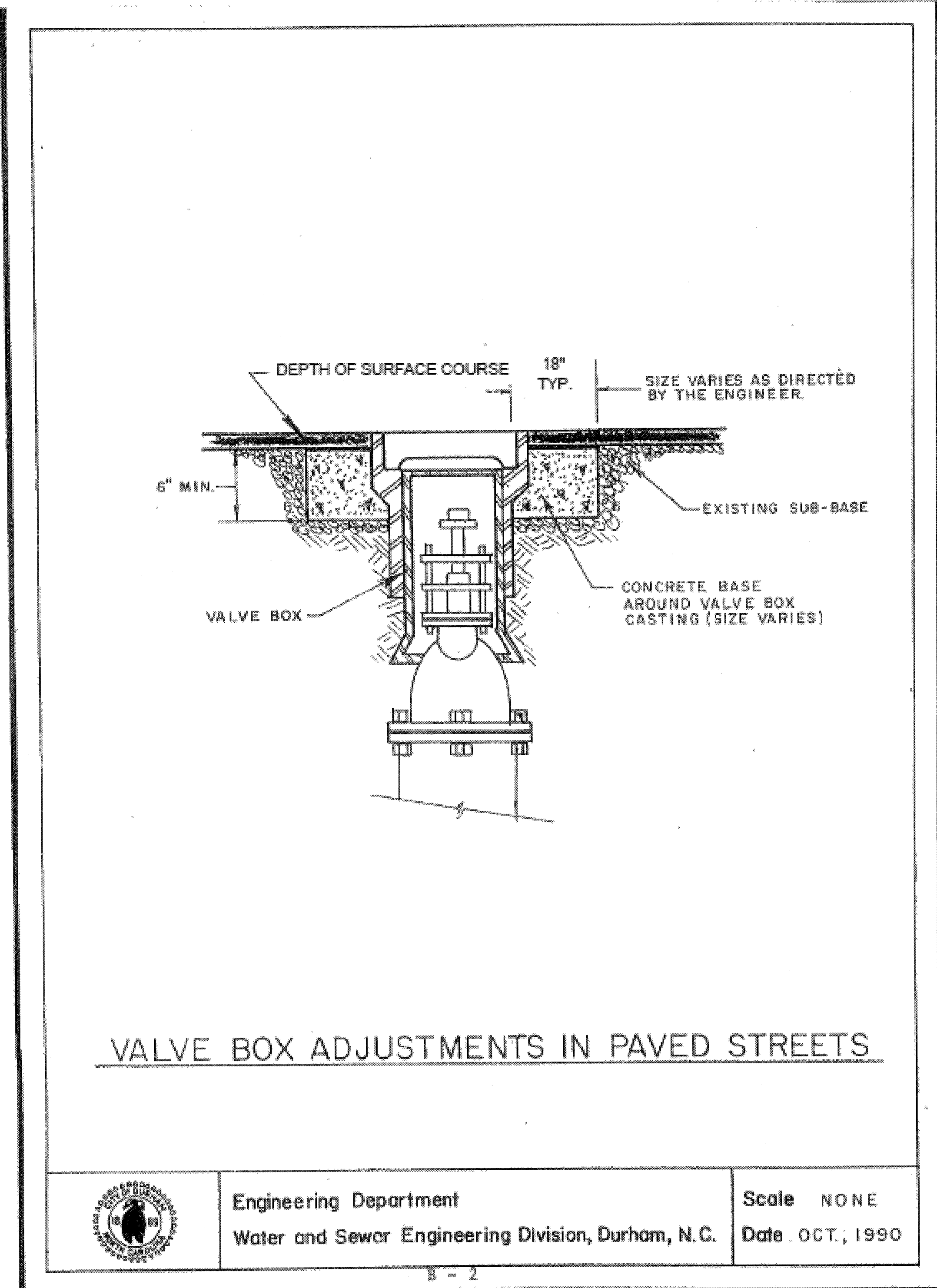
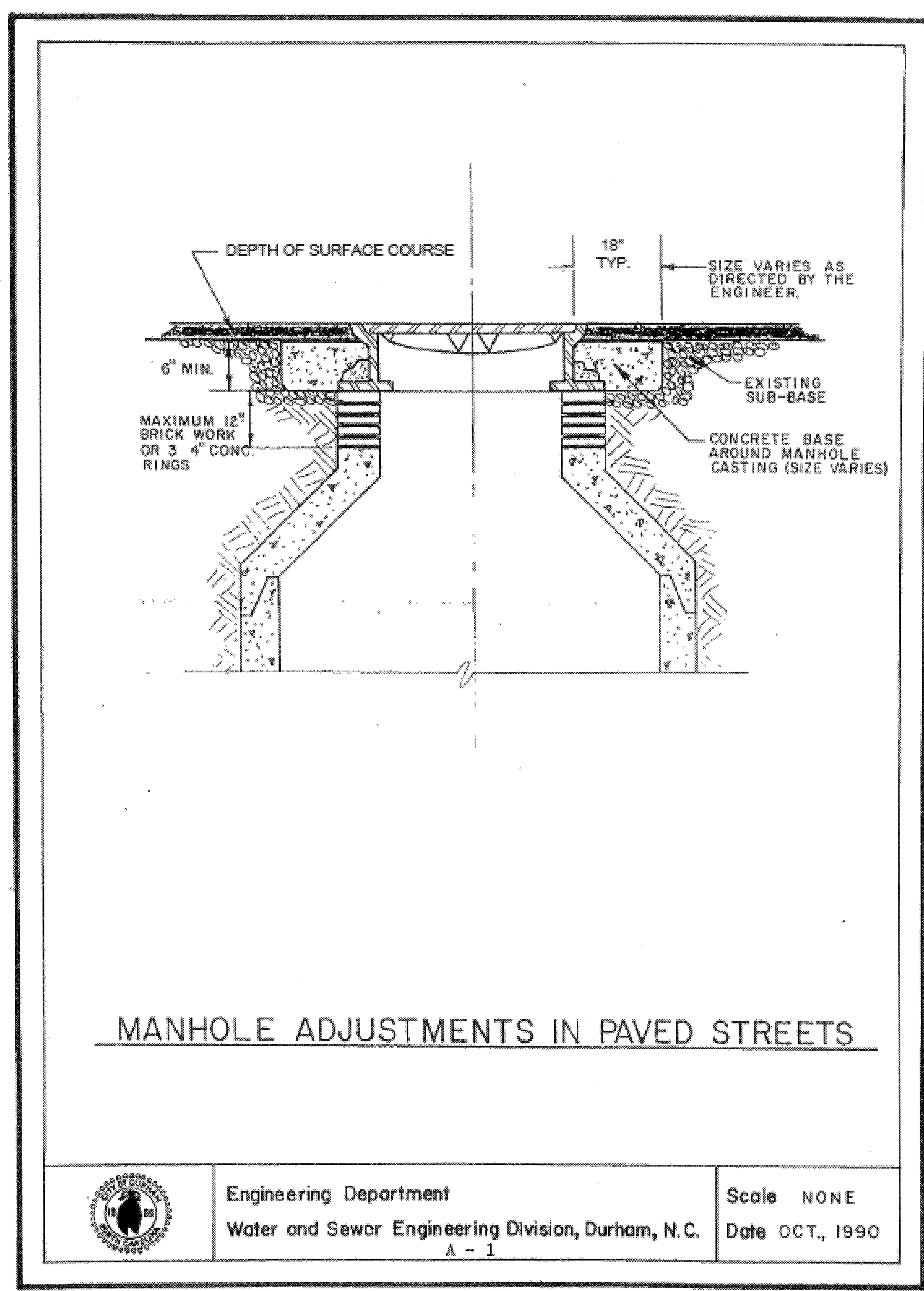
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4400000000-E	4405000000-E	4420000000-N	4435000000-N	4455000000-N	4480000000-N	4510000000-N	4685000000-E	4686000000-E			4695000000-E		4697000000-E	4705000000-E	4710000000-E	4721000000-E		4725000000-E					
							STATIONARY WORK ZONE SIGNS SF	PORTABLE WORK ZONE SIGNS SF	PORTABLE CHANGEABLE MESSAGE SIGNS EA	CONES EA	FLAGGER DAY	TMA EA	LAW ENFORCEMENT HR	4" X 90 M WHITE THERMO LF	4" X 120 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	8" X 90 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA			
45158.3.2	Durham	1	US 70 BUS - MAIN STREET (REMARK)	FROM 15TH STREET TO 9TH STREET (REMARKING)	0.4	40	58	115	1	40	48		64	3,288	2,088	6,534	462	190	255			30	16		6	7				
		"	"	FROM 9TH STREET TO PAVEMENT JOINT EAST OF BUCHANAN (MINUS B-3638 EXCEPT FINAL PAVEMENT MARKINGS)	0.54	40	57	115		40	48	1	64	5,420	2,253	11,185	920	50	1,700			470	16		17	4	9			
TOTAL FOR MAP NO. 1							0.94	115	230	1	80	96	1	128	8,708	4,341	17,719	1,382	240	1,955			500	16		23	11	9		
45158.3.2	Durham	2	SR 1322 - SWIFT AVENUE	FROM US 70 BUS TO NC 147	0.16	64	29	57.5	1	20	24		32		422	2,112					100	167		4		3	3	3		
TOTAL FOR MAP NO. 2							0.16	29	58	1	20	24		32		422	2,112						100	167		4		3	3	3
TOTAL FOR PROJ NO. 45158.3.2 R-5164F							1.1	144	288	2	100	120	1	160	8,708	4,763	19,831	1,382	240	1,955			100	667	16	4	23	14	12	3

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4726110000-E		4770000000-E		4780000000-E	4810000000-E		4820000000-E		4835000000-E	4845000000-N			4850000000-E	4870000000-E	4875000000-E	4900000000-E	4905000000-N	
							HEATED-IN-PLACE THERMO SYMBOL (90 MILS) (HELMETED BICYCLIST) EA	HEATED-IN-PLACE THERMO SYMBOL (90 MILS) (BIKE STR ARROW) EA	4" WHITE COLD APPLIED PLASTIC, TYPE III LF	4" YELLOW COLD APPLIED PLASTIC, TYPE III LF	8" YELLOW COLD APPLIED PLASTIC, TYPE III LF	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	8" YELLOW PAINT LF	24" WHITE PAINT LF	PAINT LT ARROW EA	PAINT RT ARROW EA	PAINT STR & RT ARROW EA	4" LINE REMOVAL LF	24" LINE REMOVAL LF	REML OF PVMT MRKG SYMBOLS & CHARACTERS EA	YELLOW & YELLOW MARKERS EA	SNOW PLOWABLE MARKERS EA	
45158.3.2	Durham	1	MAIN STREET (REMARK)	FROM 15TH STREET TO 9TH STREET (REMARKING)	0.4	40	14	14																104	
		"	"	FROM 9TH STREET TO PAVEMENT JOINT EAST OF BUCHANAN (MINUS B-3638 EXCEPT FINAL PAVEMENT MARKINGS)	0.54	40	24	24	260	520	25	6,683	9,205	1,750	730	470	17	23	6				10	180	
TOTAL FOR MAP NO. 1							0.94	38	38	260	520	25	6,683	9,205	1,750	730	470	17	23	6	6,208	30	19	10	284
45158.3.2	Durham	2	SR1322 - SWIFT AVENUE	FROM US 70 BUS TO NC 147	0.16	64						422	2,112											54	
TOTAL FOR MAP NO. 2							0.16						422	2,112											54
TOTAL FOR PROJ NO. 45158.3.2 R-5164F							1.1	38	38	260	520	25	7,105	11,317	1,750	730	470	17	23	6	6,208	30	19	10	338

MANHOLE & VALVE BOX ADJUSTMENT DETAILS



8/17/99

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