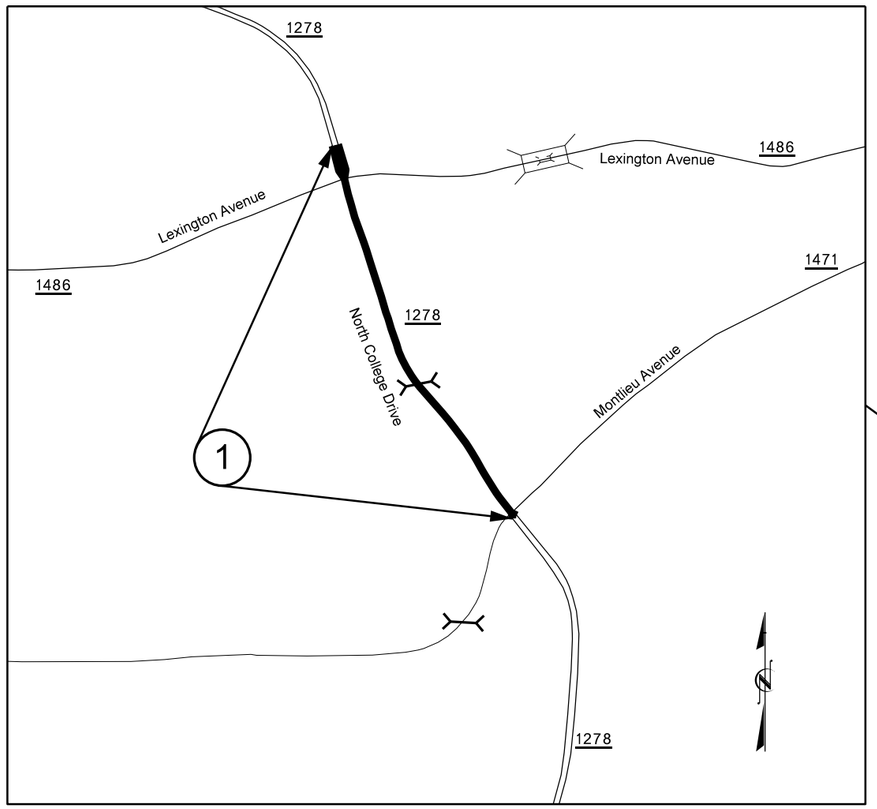
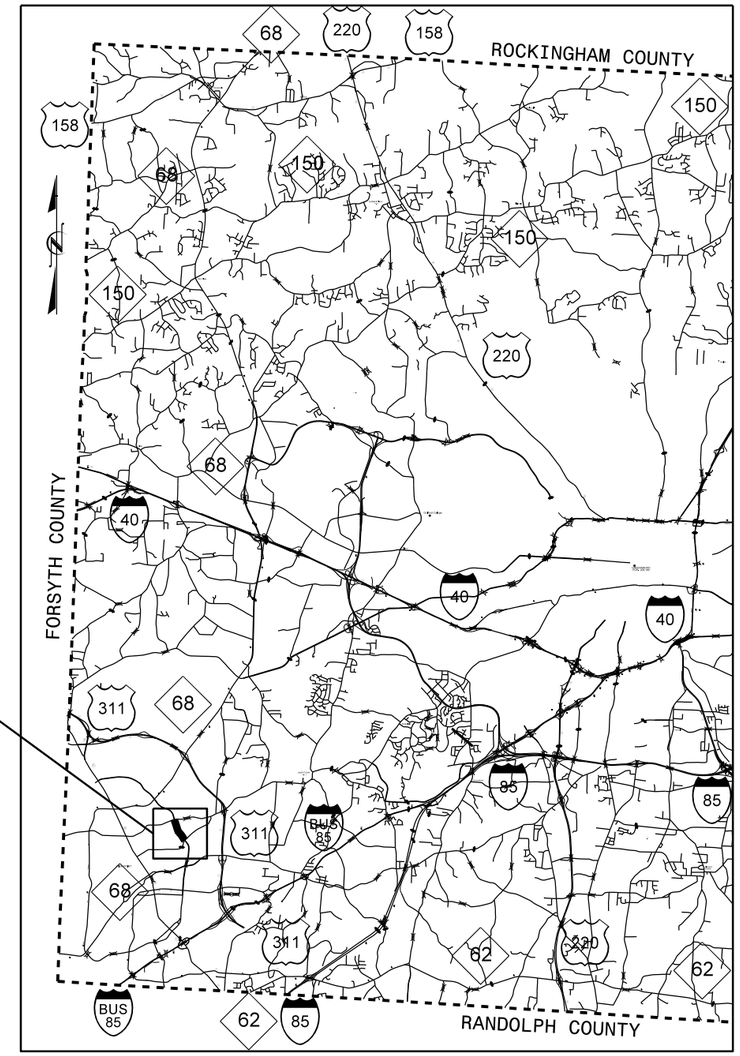
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	7CR.20411.74	1	4
F.A. PROJ. NO.			

2016 GUILFORD COUNTY





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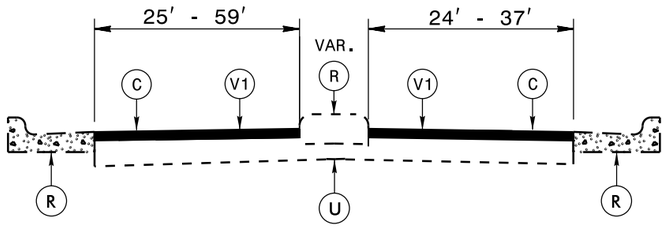
cthuskins AT D7CADD271374

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	7CR.20411.74	2	4

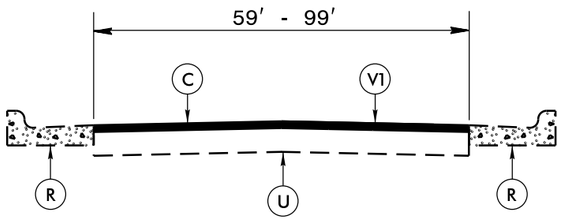


TYPICAL SECTION NO. 1

TO BE USED ON MAP 1

STA. 0+00 TO STA. 0+65

STA. 32+60 TO STA. 34+65

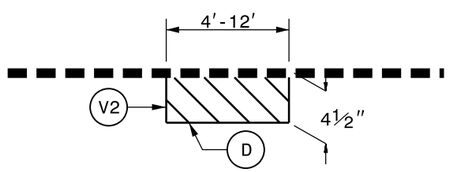


TYPICAL SECTION NO. 2

TO BE USED ON MAP 1

STA. 0+65 TO STA. 32+60

MILLING DETAIL 1

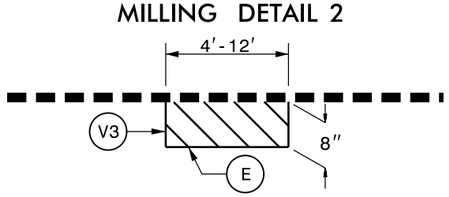


MILL EXISTING ASPHALT PAVEMENT 4½″ IN DEPTH AND FILL WITH INTERMEDIATE COURSE, TYPE I19.0B AT LOCATIONS AS DIRECTED BY THE ENGINEER.

TO BE USED IN CONJUCTION WITH MAPS 1 AND 5

MAP 1: 4½″ MILLING = 195 SYD
INTERMEDIATE COURSE, TYPE I19.0B = 50 TONS

MILLING DETAIL 2



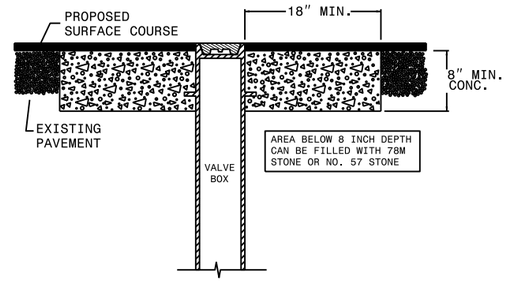
MILL EXISTING ASPHALT PAVEMENT 8″ IN DEPTH AND FILL WITH BASE COURSE, TYPE B25.0B AT LOCATIONS AS DIRECTED BY THE ENGINEER.

TO BE USED IN CONJUCTION WITH MAPS 1 AND 5

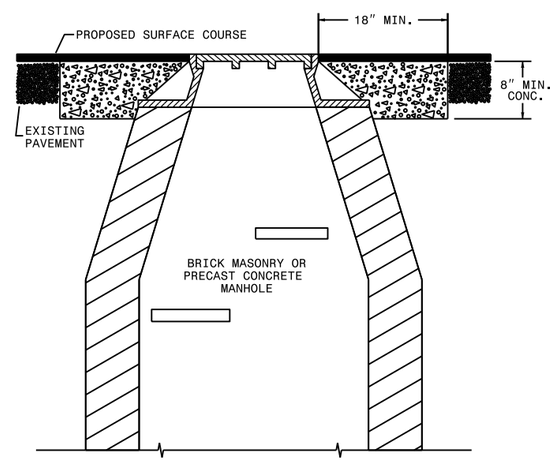
MAP 1: 8″ MILLING = 54 SYD
BASE COURSE, TYPE B25.0B = 25 TONS

STANDARD CONCRETE ENCASEMENT FOR MANHOLE & VALVE CASTINGS IN PAVEMENT

DETAIL DRAWING NO. 858.01

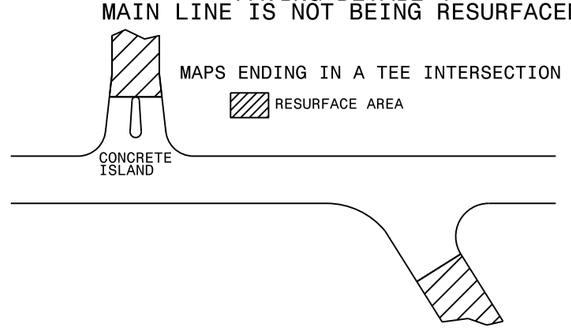


USE RAPID SET GROUT, MORTAR, OR CONCRETE CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.



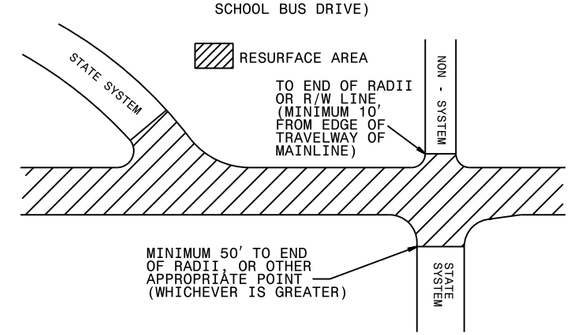
NOTES:
1. MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.
2. ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.
3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT ON ALL SIDES.
4. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED

PAVING DETAIL 1
MAIN LINE IS NOT BEING RESURFACED



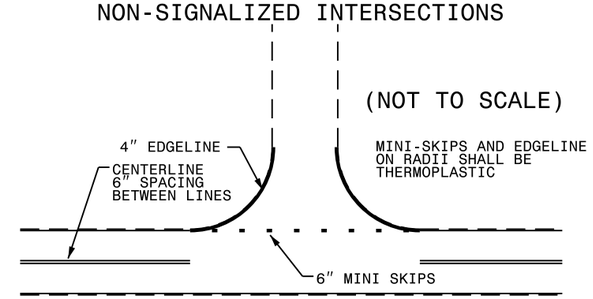
PAVING DETAIL 2
MAIN LINE IS BEING RESURFACED

NOTE: NON-SYSTEM (CITY STREET, PRIVATE DRIVE, SCHOOL BUS DRIVE)



TO BE USED AT ALL NON-SIGNALIZED INTERSECTIONS

(NOT TO SCALE)



NOTE: MINI SKIPS SHALL BE PLACED ON A 8′ CYCLE, CONTAINING AN 6′ AND 2′ SKIP, THE WIDTH OF THE SKIP SHALL BE 6″.

PAVEMENT SCHEDULE

C	PROP. APPROX. 1½″ ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.		
D	PROP. APPROX. 4½″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.		
E	PROP. APPROX. 8″ ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS		
R	EXISTING CONCRETE STRUCTURE		
U	EXISTING PAVEMENT.		
V1	1½″ MILLING	V2	4½″ MILLING
V3	8″ MILLING FOR PATCHING		

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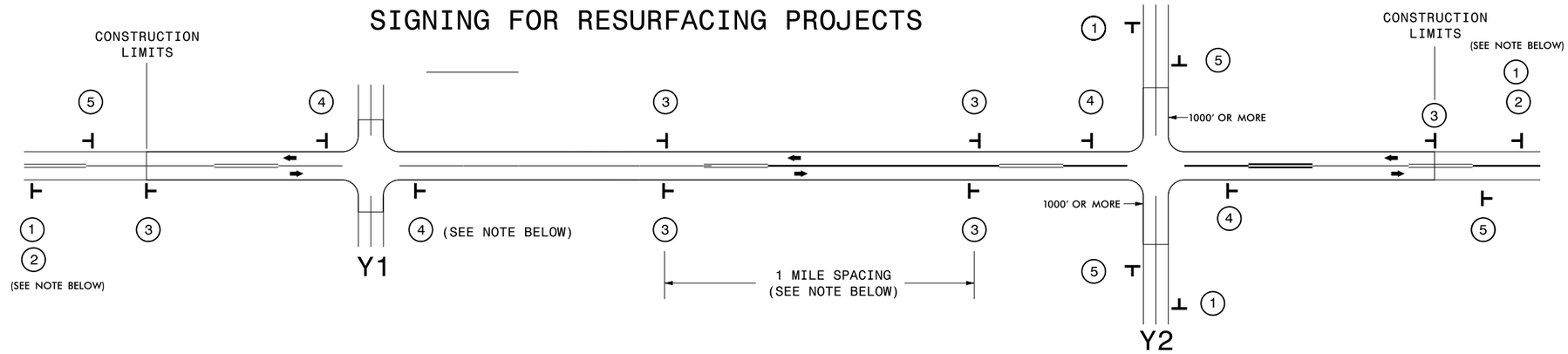
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	7CR.20411.74	3	4

SIGNING FOR RESURFACING PROJECTS



LEGEND

⊢ STATIONARY SIGN

⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	ROAD WORK AHEAD W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
2	NEXT XX MILES W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)
3	LOW/SOFT SHOULDER SP 13107 48" X 48"	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.
4	ROAD UNDER CONST SP 13106 48" X 48"	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 INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.
5	END ROAD WORK G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.

-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.

ROAD WORK AHEAD
W20-1
48" X 48"

PLACED 500' IN ADVANCE OF FLAGGER.

W20-7 A
48" X 48"

PLACED 250' IN ADVANCE OF FLAGGER.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

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PROJECT NO.	SHEET NO.	TOTAL NO.
7CR.20411.74	4	4

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MILLING ASPHALT PAVEMENT, 1½" DEPTH SY	MILLING ASPHALT PAVEMENT, 4½" DEPTH SY	MILLING ASPHALT PAVEMENT, 8" DEPTH SY	ASPHALT CONC BASE COURSE, TYPE B25.0B TONS	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B TONS	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	RETROFITTING EXISTING CURB RAMPS EA	ADJ. OF MANHOLES EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES EA	JUNCTION BOX (STANDARD SIZE) EA	INDUCTIVE LOOP SAW CUT LF	LEAD-IN CABLE (14-2) LF
7CR.20411.74	Guilford	1	SR 1278 (NORTH COLLEGE DRIVE)	FROM JOINT AT SR 1471 (MONTLIEU AVENUE) - 1.96 TO JOINT NORTH OF SR 1486 (LEXINGTON AVENUE) - 2.62	1	2	MD	NO	NO	0.01	62	437	195	54	25	50	36	6						
					2	2	M2	NO	NO	0.02	72	1,245					103	7		4	1		1,500	350
					2	2	M2	NO	NO	0.09	66	3,330					275	18			1			
					2	2	M2	NO	NO	0.37	59	13,059					1,079	72	2	5	2			
					2	2	M2	NO	NO	0.03	63	961					79	5		1				
					2	2	M2	NO	NO	0.04	75	1,848					153	10		1	1			
					2	2	M2	NO	NO	0.04	83	1,753					145	10		2				
					2	2	M2	NO	NO	0.03	99	2,565					210	14		1		1	1,900	350
					1	2	MD	NO	NO	0.04	83	1,899					157	11						
TOTAL FOR MAP NO. 1										**0.66**		**27,097**	**195**	**54**	**25**	**50**	**2,237**	**153**	**2**	**14**	**5**	**1**	**3,400**	**700**
TOTAL FOR PROJ NO. 7CR.20411.74										**0.66**		**27,097**	**195**	**54**	**25**	**50**	**2,237**	**153**	**2**	**14**	**5**	**1**	**3,400**	**700**
GRAND TOTAL										**0.66**		**27,097**	**195**	**54**	**25**	**50**	**2,237**	**153**	**2**	**14**	**5**	**1**	**3,400**	**700**

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS	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 WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	12" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO LT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	12" WHITE PAINT LF	24" WHITE PAINT LF	PAINT LT ARROW EA	PAINT STR ARROW EA	PAINT RT ARROW EA	PAINT STR & RT ARROW EA
7CR.20411.74	Guilford	1	SR 1278 (NORTH COLLEGE DRIVE)	FROM JOINT AT SR 1471 (MONTLIEU AVENUE) - 1.96 TO JOINT NORTH OF SR 1486 (LEXINGTON AVENUE) - 2.62	1	2	MD	0.012	62	74	1	540	3,816	8,075	150	680	1,160	328	28	9	9	3	3,816	5,913	150	1,160	328	28	9	9	3
					2	2	M2	0.018	72																						
					2	2	M2	0.086	66																						
					2	2	M2	0.37	59																						
					2	2	M2	0.026	63																						
					2	2	M2	0.042	75																						
					2	2	M2	0.036	83																						
					2	2	M2	0.027	99																						
					1	2	MD	0.039	83																						
TOTAL FOR MAP NO. 1								**0.656**		**74**	**1**	**540**	**3,816**	**8,075**	**150**	**680**	**1,160**	**328**	**28**	**9**	**9**	**3**	**3,816**	**5,913**	**150**	**1,160**	**328**	**28**	**9**	**9**	**3**
TOTAL FOR PROJ NO. 7CR.20411.74								**0.656**		**74**	**1**	**540**	**3,816**	**8,075**	**150**	**680**	**1,160**	**328**	**28**	**9**	**9**	**3**	**3,816**	**5,913**	**150**	**1,160**	**328**	**28**	**9**	**9**	**3**
													11,891		**830**					**49**				**9,729**						**49**		
GRAND TOTAL								**0.656**		**74**	**1**	**540**	**3,816**	**8,075**	**150**	**680**	**1,160**	**328**	**28**	**9**	**9**	**3**	**3,816**	**5,913**	**150**	**1,160**	**328**	**28**	**9**	**9**	**3**
													11,891		**830**					**49**				**9,729**						**49**		