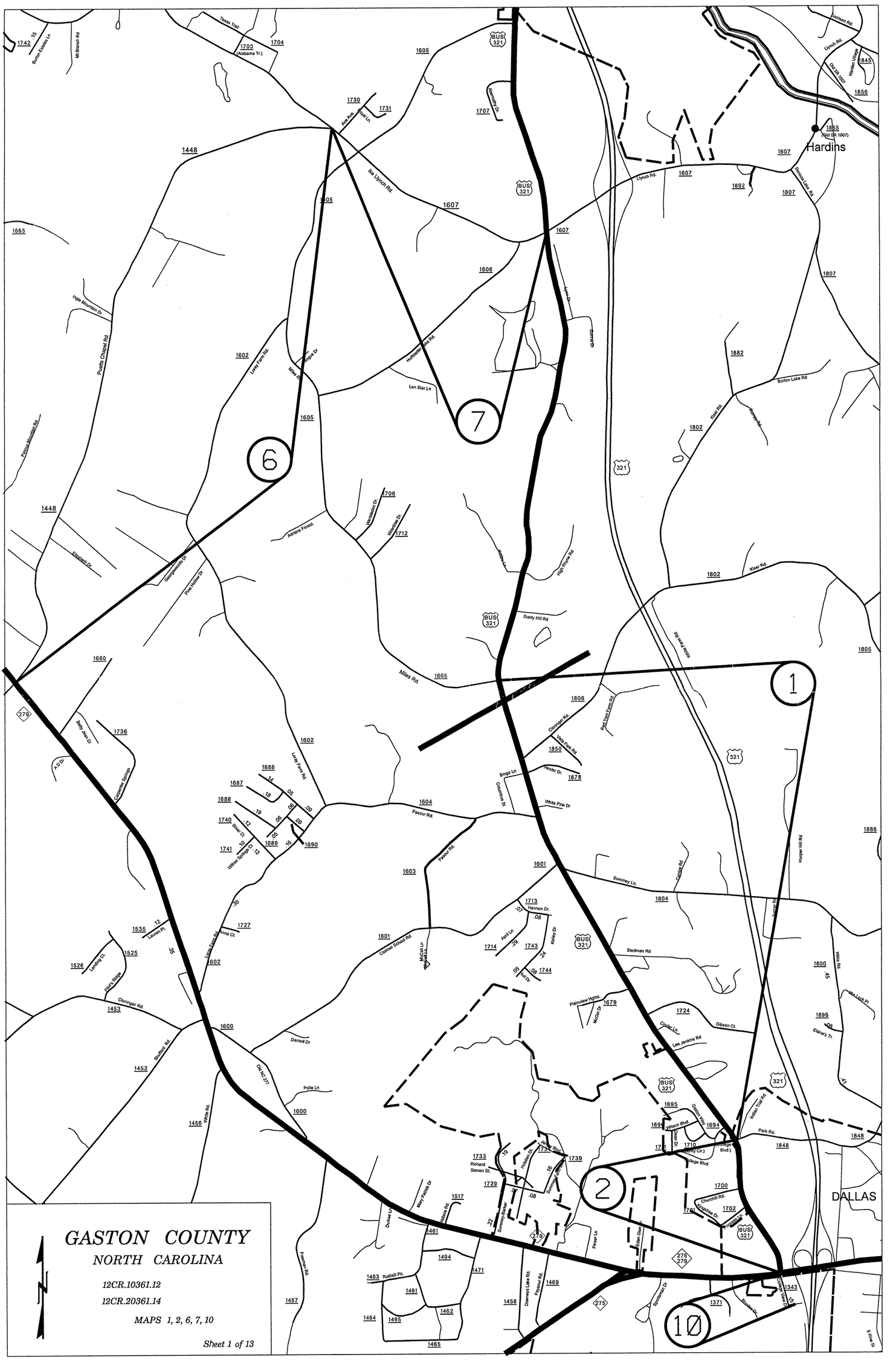

GASTON COUNTY
NORTH CAROLINA
12CR.10361.12
12CR.20361.14
MAPS 1, 2, 6, 7, 10
Sheet 1 of 13
Hardins
DALLAS
6
7
1
2
10

GASTON COUNTY

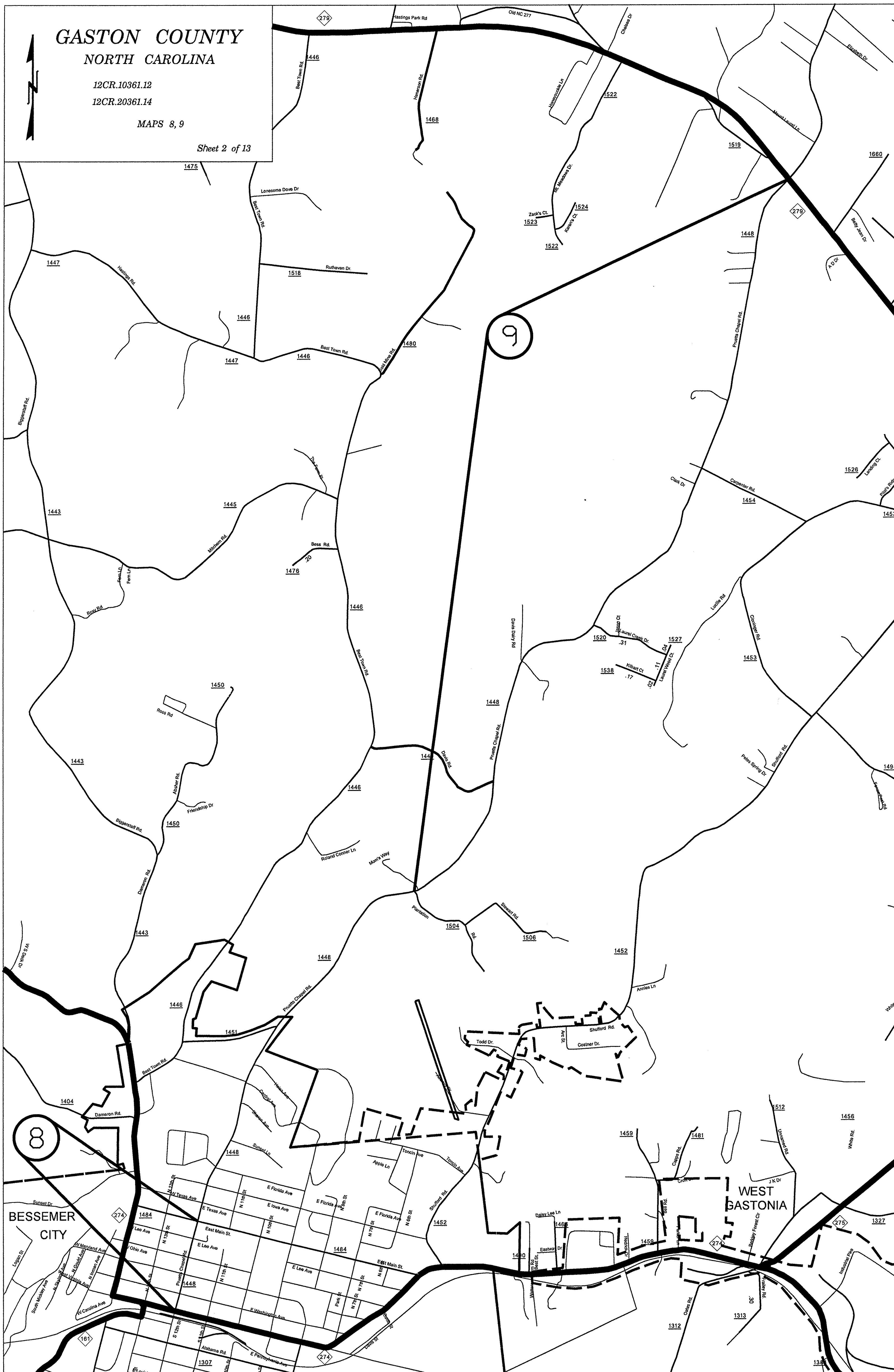
NORTH CAROLINA

12CR.10361.12

12CR.20361.14

MAPS 8, 9

Sheet 2 of 13



GASTON COUNTY

NORTH CAROLINA

12CR.10361.12

12CR.20361.14

MAPS 11, 12

Sheet 3 of 13

MOUNT HOLLY
POP.9,708

11

12

27

273

1960
3303
Azalea Trl.
2085
Dawn Dr.
2197
2195
Hawley St.
2196
2114
Helen St.
3215
Gregory Ct.
Rachel St.
2115
Hansel St.
2187
1924
2163
Dana Dr.
2162
2181
Cottonwood Dr.
Hansel Rd.
2060
Old Mount Holly
1924
1925
Noles Dr
Craig St
Hoover Ave
Madison St
Mountain View Rd
1923
Woodlawn Ave.
Glenn Dr.
1974
Pinewood St.
1966
Lanier St.
1939
Sadler Ave.
1937
Bentley St
Lorin Ln
1931
Davenport Ave.
Texler Ave.
1930
Hall St
Forest Dr
Jenkins St.
Woodhaven Dr
E Timberlane Dr
Crestline Dr
N Timberlane
North Dr
W Timberlane Dr
Moore Ave
Morris St
Walley Dr
Nantz St
Dogwood Dr
Walnut Ave
Oak Ave
Pine St
Cavin Ave
W Nims Ave
Killian Ave
Spring St
Gaston Ave
E Nims Ave
Harmony Ln
1996
2198
Alsace Ln
Dutch Ave
N Alexander St
Wilson St
W Central Ave
Municipal Dr
Oakland St
Hawthorne Ave
S Hawthorne St
N Hawthorne St
Cedar Ln
Leo Dr
Norton Rd
Woodlawn Ave
Meller St
B Ave
Madison Dr
1923
Old Mine Rd
Ashley Rd
Brook Ln
Payne St
Kendrick St
Waverly Dr
Hilltop Dr
W Central Ave
Howie Dr.
2143
Craig St
Glebe St
Stark St
N McGinnis Pl
Mountain View Rd

GASTON COUNTY

NORTH CAROLINA

12CR.10361.12

12CR.20361.14

MAPS 3, 4, 5

Sheet 4 of 13

GASTON COUNTY

NORTH CAROLINA

12CR.10361.12

12CR.20361.14

MAPS 13, 14

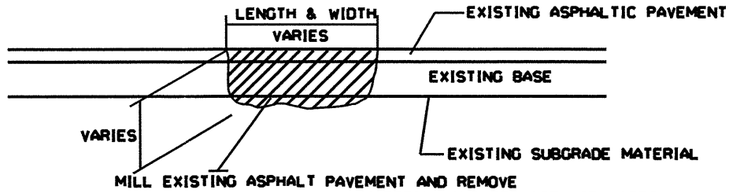
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2011	6 OF 13	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
12CR.10361.12		
12CR.20361.14		

PAVEMENT SCHEDULE

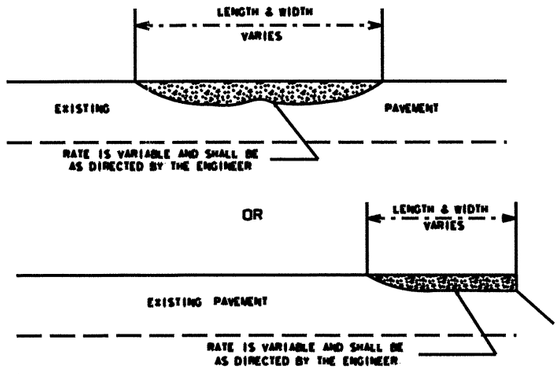
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
Y	SHOULDER RECONSTRUCTION
V1	MILL ASPHALT PAVEMENT APPROX. 1½" AS DIRECTED BY ENGINEER
V2	MILL ASPHALT PAVEMENT APPROX. 3" - 4.5" AS DIRECTED BY ENGINEER
V3	MILL ASPHALT PAVEMENT APPROX. 3" AS DIRECTED BY ENGINEER

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

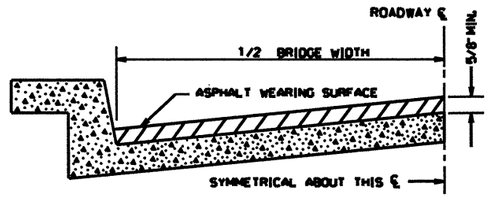
MILL BRIDGE APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.



PATCHING EXISTING PAVEMENT



ASPHALT CONCRETE SURFACE COURSE
TYPE S9.5B & C (LEVELING COURSE)



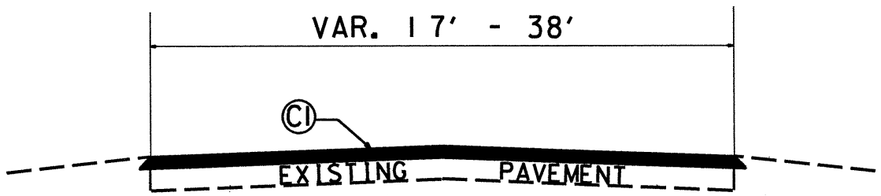
BRIDGE HALF TYPICAL SECTION

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.

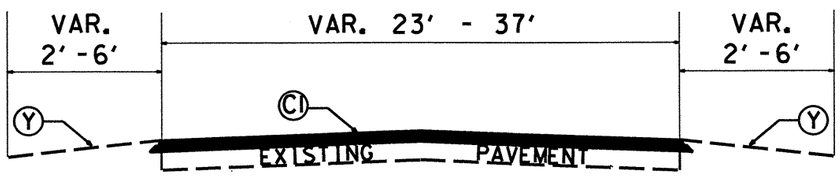
NOTES

ALL UNPAVED S.R. ROADS TO BE SURFACED 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.
SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE NOTED.
BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

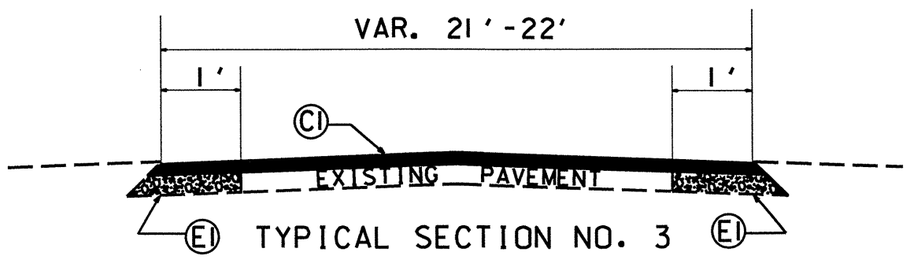


TYPICAL SECTION NO. 1

BRIDGE PROFILE



TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 3

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2011	7 OF 13	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
12CR.10361.12		
12CR.20361.14		

PAVEMENT SCHEDULE	
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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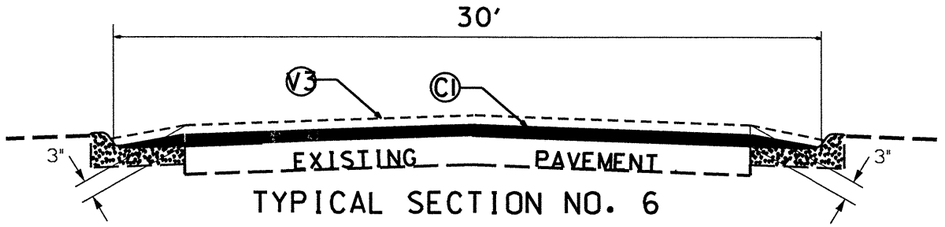
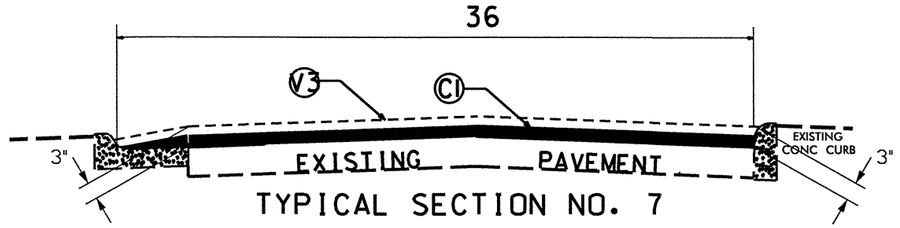
MILL BRIDGE APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.



TYPICAL SECTION NO. 6



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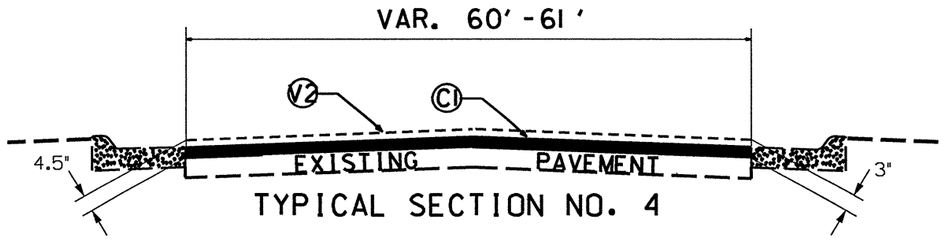

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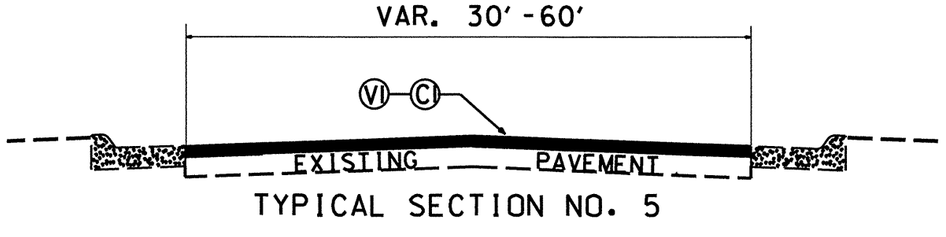
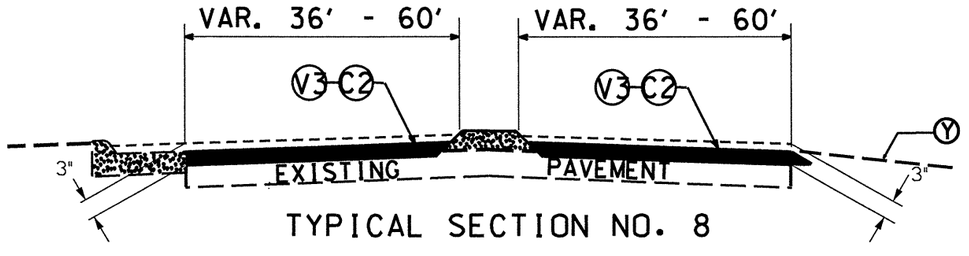


TYPICAL SECTION NO. 5



TYPICAL SECTION NO. 8

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2011	8 OF 13	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
12CR.10361.12		
12CR.20361.14		

PAVEMENT SCHEDULE	
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
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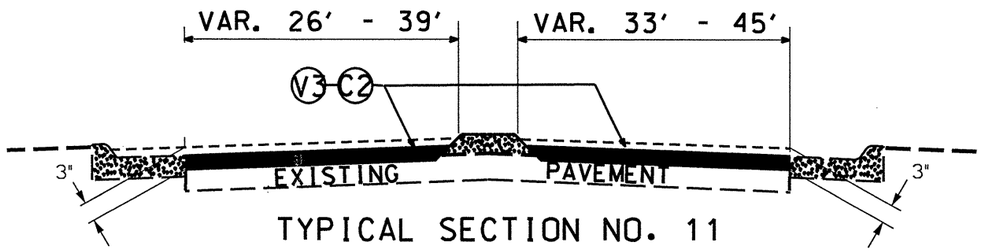
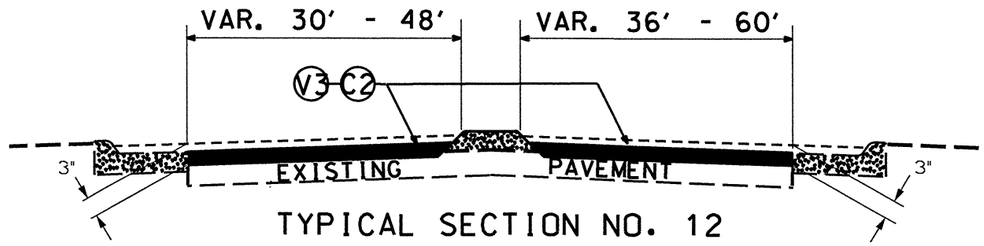
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.
MILL BRIDGE APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.



TYPICAL SECTION NO. 11



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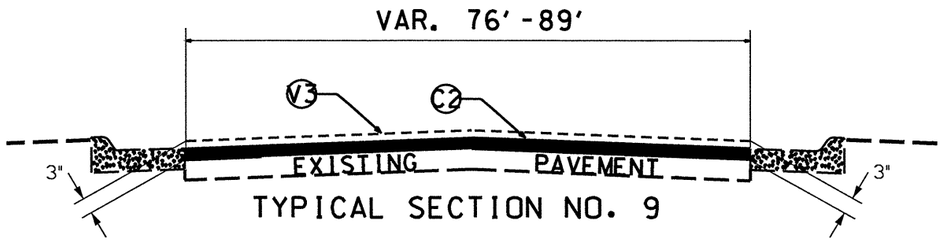

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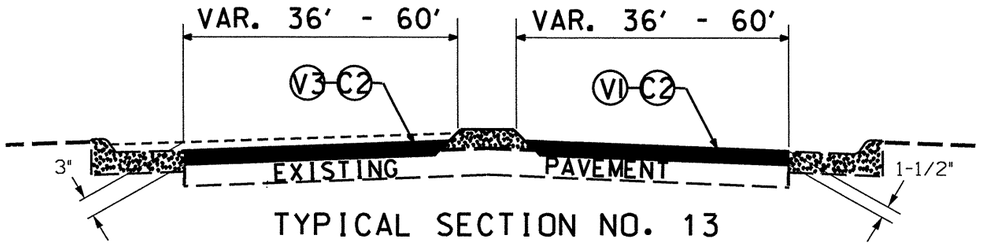
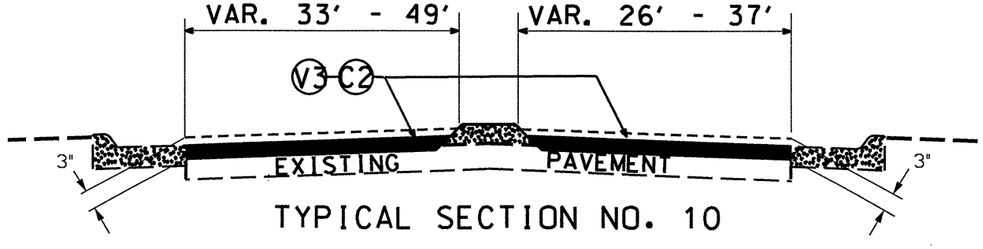


TYPICAL SECTION NO. 13



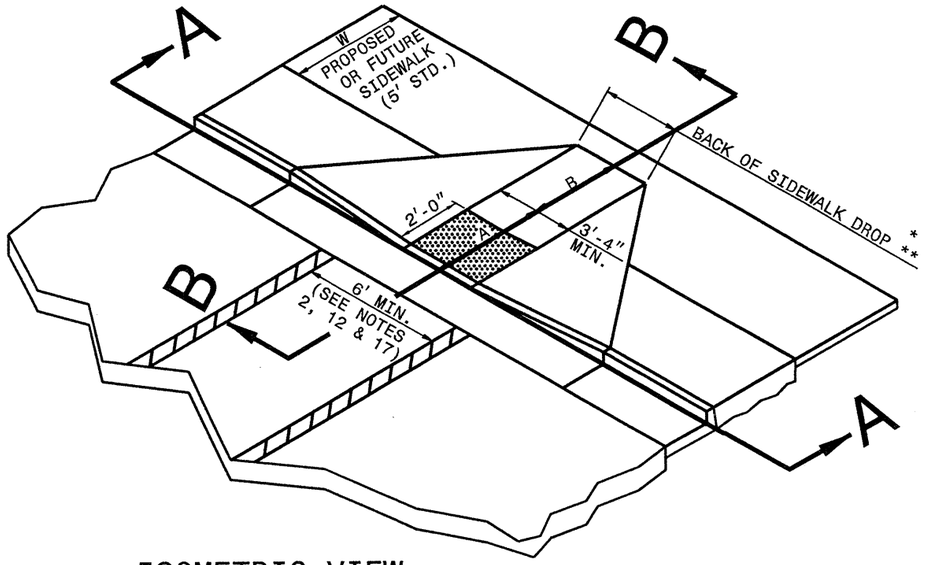
TYPICAL SECTION NO. 10

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

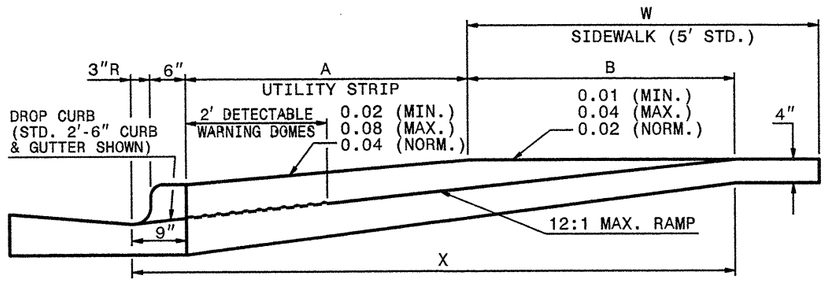
ENGLISH DETAIL DRAWING FOR

WHEELCHAIR RAMP

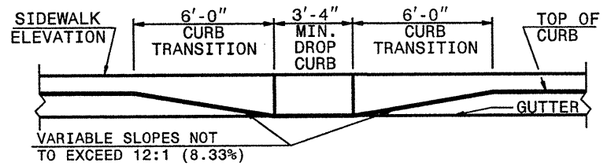
PROPOSED CURB AND GUTTER



ISOMETRIC VIEW

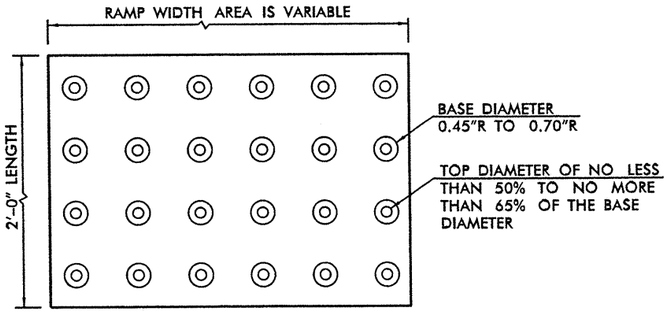


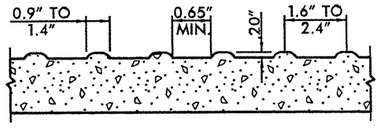
SECTION B-B



SECTION A-A

NOTES:
1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. OBTAIN 70% CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

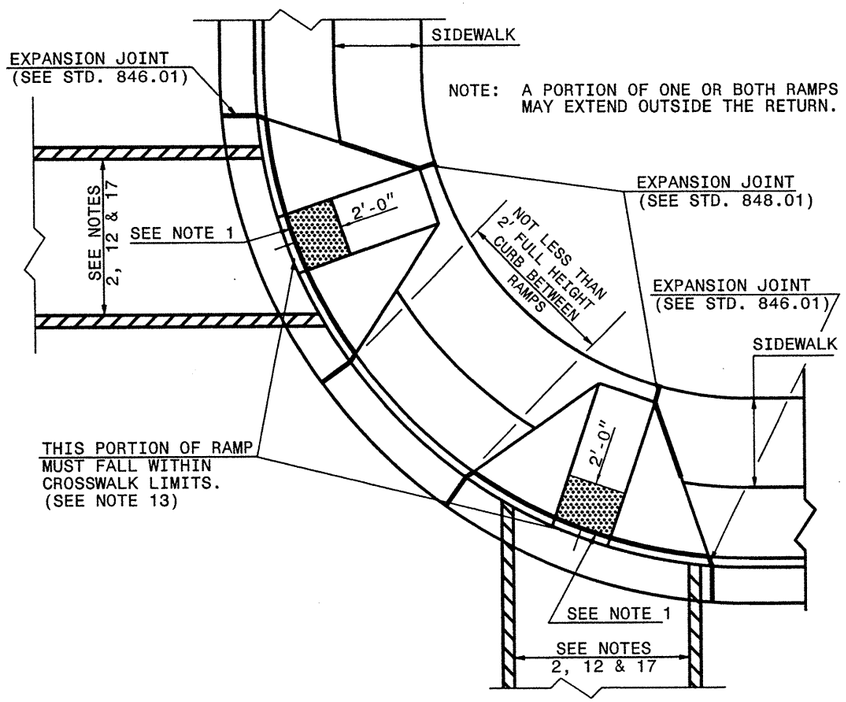




DETECTABLE WARNING DOMES

W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04.



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR

WHEELCHAIR RAMP

PROPOSED CURB AND GUTTER

SHEET 1 OF 3
848D05

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

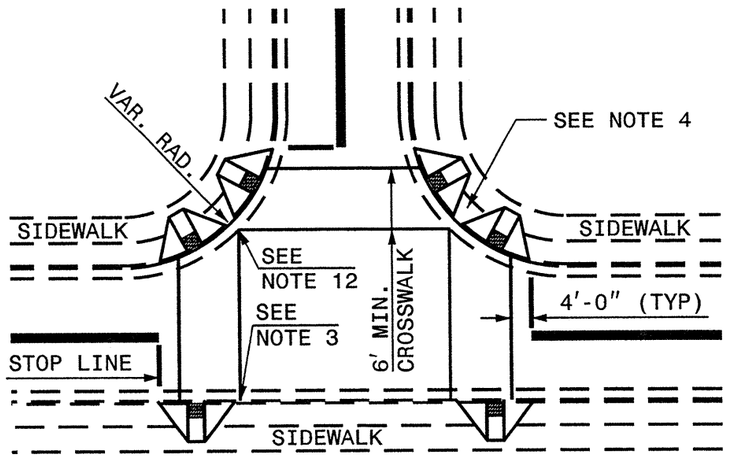
ENGLISH DETAIL DRAWING FOR

WHEELCHAIR RAMP

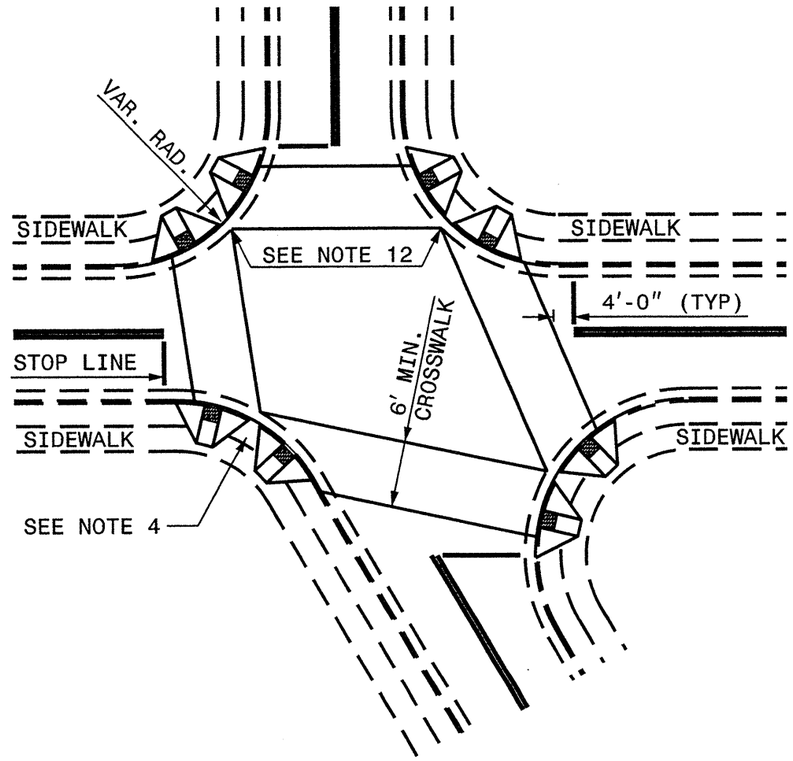
PROPOSED CURB AND GUTTER

SHEET 2 OF 3

848D05



DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

ROADWAY PLAN SYMBOL

WCR

FOR PROPOSED WHEELCHAIR RAMP

PROPOSED WHEELCHAIR RAMP

PROPOSED OR FUTURE SIDEWALK

ALLOWABLE LOCATIONS

DUAL RAMP RADII.....ANY

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR

WHEELCHAIR RAMP

PROPOSED CURB AND GUTTER

SHEET 2 OF 3

848D05

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

NOTES:

1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANTANCE AND A 70% CONTRASTING COLOR TO THE SIDEWALK.

2. CROSSWALK WIDTHS AND CONFIGURATION VARY BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.

3. NORTH CAROLINA GENERAL STATUTE 136-44.14 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILTIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW.

   IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1,1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE.

   THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES. COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILIAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNED TO COMPLY WITH THE CURRENT ADA STANDARDS.

4. PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.

5. DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATIONSHIP TO THE GRADE OF THE STREET.

6. CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS.

7. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.

8. PLACE A ½" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STD. DWG. 848.01.

9. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED. (SEE NOTE 17)

10. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDES SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.

11. CONSTRUCT THE PEDESTRIAN CROSSWALK A MINIMUM OF 6 FEET. A CROSSWALK WIDTH OF 10 FEET OR GREATER IS DESIRABLE.

12. USE STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL, STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.

13. TERMINATE PARKING A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.

14. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP
PROPOSED CURB AND GUTTER

SHEET 3 OF 3
848D05

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP
PROPOSED CURB AND GUTTER

SHEET 3 OF 3
848D05

PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10361.12, 12CR.20361.14	12	13

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	FINAL SURFACE TESTING REQUIRED	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1½" MILLING SY	3" MILLING SY	3" TO 4.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	WHEEL CHAIR RAMPS EA	AGGREGATE SHOULDER BORROW TONS	PORTABLE LIGHTING LS	ADJ. OF CATCH BASIN EA	ADJ. OF DROP INLET EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA
12CR.10361.12	Gaston	1	US 321 BUS (DALLAS-HIGH SHOALS HWY)	SR 1605 (MILES RD) TO SR 1848 (PARK RD)	2	2.11	VAR. 23-25	No	120	4.22				130		2,759	303			185		576		279					
TOTAL FOR MAP NO. 1						**2.11**			**120**	**4.22**				**130**		**2,759**	**303**			**185**		**576**		**279**					
		2	US 321 BUS (DALLAS-HIGH SHOALS HWY)	SR 1848 (PARK RD) TO NC 279 (DALLAS-CHERRYVILLE RD)	2 5	0.28 0.29	VAR. 24-37 VAR. 36-54	No	50	0.60	8,026					1,124	124			76		241		40			1	5	
TOTAL FOR MAP NO. 2						**0.57**			**50**	**0.60**	**8,026**					**1,124**	**124**			**76**		**241**		**40**			**1**	**5**	
		3	US 29/74 (FRANKLIN BLVD)	BELVEDEERE AVE TO LINEBERGER RD	9 10 11 12 13 8	0.31 0.29 0.27 0.65 0.18 0.72	VAR. 76-89 VAR. 71-85 VAR. 71-81 VAR. 80-89 VAR. 81-90 VAR. 80-82	No			5,170	123,508						10,809	541		684	1,081	23		*	31	7	32	29
TOTAL FOR MAP NO. 3						**2.42**					**5,170**	**123,508**						**10,809**	**541**		**684**	**1,081**	**23**		**1**	**31**	**7**	**32**	**29**
TOTAL FOR PROJ NO. 12CR.10361.12						**5.1**			**170**	**4.82**	**13,196**	**123,508**		**130**		**3,883**	**427**	**10,809**	**541**	**261**	**684**	**1,898**	**23**	**319**	**1**	**31**	**8**	**37**	**29**
12CR.20361.14	Gaston	4	SR 2466 (GARRISON BLVD)	LAUREL LN TO NC 279 (NEW HOPE RD)	4	1.04	VAR. 60-61	No					40,940			3,439	103			213		626			*			15	15
TOTAL FOR MAP NO. 4						**1.04**							**40,940**			**3,439**	**103**			**213**		**626**			**1**			**15**	**15**
		5	SR 2466 (ARMSTRONG PARK DR)	NC 279 (NEW HOPE RD) TO SR 2200 (ARMSTRONG PARK RD)	5	0.75	VAR. 37-60	No			19,548					1,642	49			102		274			*			11	8
TOTAL FOR MAP NO. 5						**0.75**					**19,548**					**1,642**	**49**			**102**		**274**			**1**			**11**	**8**
		6	SR 1448 (PUETTS CHAPEL RD)	NC 279 TO SR 1607 (IKE LYNCH RD)	3	2.87	21	No	140					50	1,160	3,287	290			266		624							
TOTAL FOR MAP NO. 6						**2.87**			**140**					**50**	**1,160**	**3,287**	**290**			**266**		**624**							
		7	SR 1607 (IKE LYNCH RD)	SR 1448 (PUETTS CHAPEL RD) TO US 321 BUS (DALLAS HIGH SHOALS RD)	3	1.01	VAR. 21-22	No	85					30	457	1,157	98			95		249							
TOTAL FOR MAP NO. 7						**1.01**			**85**					**30**	**457**	**1,157**	**98**			**95**		**249**							
		8	SR 1448 (12TH STREET/PUETTS CHAPEL RD)	NC 274 (VIRGINIA AVE) TO SR 1484 (E. MAINE ST)	1 6 7	0.20 0.08 0.09	VAR. 21-22 30 36	No	36			3,640		30		545	33			35		98					4	11
TOTAL FOR MAP NO. 8						**0.37**			**36**			**3,640**		**30**		**545**	**33**			**35**		**98**					**4**	**11**
		9	SR 1448 (PUETTS CHAPEL RD)	SR 1504 TO NC 279	3	3.3	21	No	200					400	1,492	3,779	1,141			365		718							
TOTAL FOR MAP NO. 9						**3.3**			**200**					**400**	**1,492**	**3,779**	**1,141**			**365**		**718**							
		10	SR 1343 (COLLEGE VIEW DR)	NC 279 TO DE	1	0.15	VAR. 19-30	No	15					45		200	39			15		39							
TOTAL FOR MAP NO. 10						**0.15**			**15**					**45**		**200**	**39**			**15**		**39**							
		11	SR 1939 (LANIER AVE & EXTENSION)	MT. HOLLY CL TO DE	1	0.57	18	No	150							560	237			49		87							
TOTAL FOR MAP NO. 11						**0.57**			**150**							**560**	**237**			**49**		**87**							
		12	SR 1974 (PINEWOOD DR)	SR 1939 TO DE	1	0.16	VAR. 17-18	No	40							157	66			14		25							
TOTAL FOR MAP NO. 12						**0.16**			**40**							**157**	**66**			**14**		**25**							
		13	SR 2200 (GASTON DAY SCH RD)	ROUNDABOUT CHG IN PVMT N TO START OF GUARDRAIL	5	0.3	VAR. 30-36	No			6,918					581	30			37		160					9	3
TOTAL FOR MAP NO. 13						**0.3**					**6,918**					**581**	**30**			**37**		**160**					**9**	**3**
		14	SR 2200 (GASTON DAY SCH RD / AIRPORT RD)	ROUNDABOUT CHG IN PVMT S TO CHG IN PVMT	1	0.28	VAR. 21-38	No						50		352	18			22		88						2
TOTAL FOR MAP NO. 14						**0.28**								**50**		**352**	**18**			**22**		**88**						**2**
TOTAL FOR PROJ NO. 12CR.20361.14						**10.8**			**666**		**26,466**	**3,640**	**40,940**	**605**	**3,109**	**15,699**	**2,104**			**1,213**		**2,988**			**1**		**39**	**39**
GRAND TOTAL						**15.9**			**836**	**4.82**	**39,662**	**127,148**	**40,940**	**735**	**3,109**	**19,582**	**2,531**	**10,809**	**541**	**1,474**	**684**	**4,886**	**23**	**319**	**1**	**31**	**8**	**76**	**68**

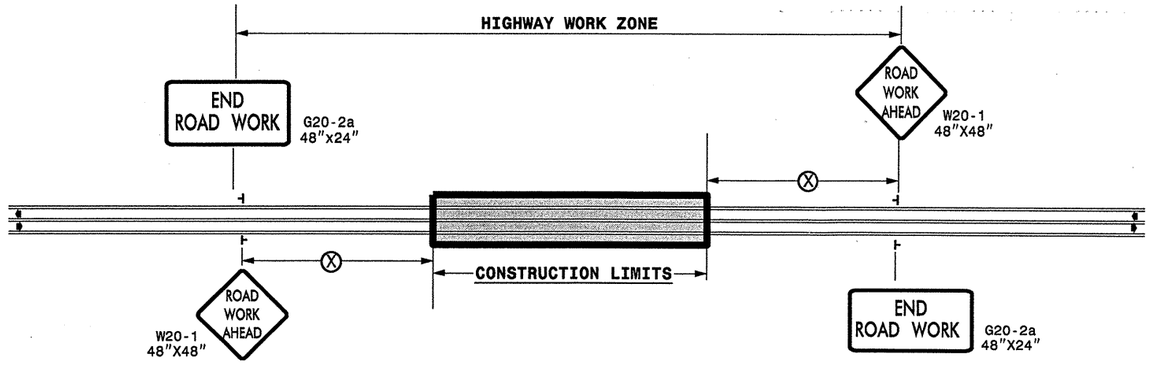
PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10361.12, 12CR.20361.14	13	13

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E 4" X 90 M WHITE THERMO LF	4685000000-E 4" X 90 M YELLOW THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4686000000-E 4" X 120 M WHITE THERMO LF	4697000000-E 8" X 120 M WHITE THERMO LF	4695000000-E 8" X 90 M WHITE THERMO LF	4710000000-E 24" X 120 M WHITE THERMO LF	4721000000-E THERMO MSG ONLY 120 M EA	4721000000-E THERMO MSG SCHOOL 120 M EA	4725000000-E THERMO RT ARROW 90 M EA	4725000000-E THERMO STR & LT ARROW 90 M EA	4725000000-E THERMO LT ARROW 90 M EA	4725000000-E THERMO STR & RT ARROW 90 M EA	4725000000-E THERMO STR ARROW 90 M EA	4810000000-E 4" WHITE PAINT LF	4810000000-E 4" YELLOW PAINT LF	4905000000-N SNOW PLOWABLE MARKERS EA	4589000000-N TRAFFIC CONTROL LS
12CR.10361.12	Gaston	1	US 321 BUS (DALLAS-HIGH SHOALS HWY)	SR 1605 (MILES RD) TO SR 1848 (PARK RD)	22,704		22,704	200													160	
TOTAL FOR MAP NO. 1					22,704		22,704	200													160	
		2	US 321 BUS (DALLAS-HIGH SHOALS HWY)	SR 1848 (PARK RD) TO NC 279 (DALLAS-CHERRYVILLE RD)	3,000		3,762	200			36			5	5	18					140	*
TOTAL FOR MAP NO. 2					3,000		3,762	200			36			5	5	18					140	
		3	US 29/74 (FRANKLIN BLVD)	BELVEDEERE AVE TO LINEBERGER RD	3,900	22,700	4,200	16,300	580	400	1,250	36		5		93	3	23			2,150	
TOTAL FOR MAP NO. 3					**3,900**	**22,700**	**4,200**	**16,300**	**580**	**400**	**1,250**	**36**		**5**		**93**	**3**	**23**			**2,150**	
TOTAL FOR PROJ NO. 12CR.10361.12					**29,604**	**22,700**	**30,666**	**16,700**	**580**	**400**	**1,286**	**36**		**10**	**5**	**111**	**3**	**23**			**2,450**	**1**
					52,304		**47,366**					**36**		**152**								
12CR.20361.14	Gaston	4	SR 2466 (GARRISON BLVD)	LAUREL LN TO NC 279 (NEW HOPE RD)			13,625	3,225	840		280		12	4		52						
TOTAL FOR MAP NO. 4							13,625	3,225	840		280		12	4		52						
		5	SR 2466 (ARMSTRONG PARK DR)	NC 279 (NEW HOPE RD) TO SR 2200 (ARMSTRONG PARK RD)			9,825	600			63				3	33	3	4				
TOTAL FOR MAP NO. 5							9,825	600			63				3	33	3	4				
		6	SR 1448 (PUETTS CHAPEL RD)	NC 279 TO SR 1607 (IKE LYNCH RD)							30								60,600	60,600		
TOTAL FOR MAP NO. 6											30								60,600	60,600		
		7	SR 1607 (IKE LYNCH RD)	SR 1448 (PUETTS CH RD) TO US 321 BUS (DALLAS HIGH SHOALS RD)															21,736	21,736		
TOTAL FOR MAP NO. 7																			21,736	21,736		
		8	SR 1448 (12TH STREET/PUETTS CHAPEL RD)	NC 274 (VIRGINIA AVE) TO SR 1484 (E. MAINE ST)					80		30								4,224	7,900		
TOTAL FOR MAP NO. 8									80		30								4,224	7,900		
		9	SR 1448 (PUETTS CHAPEL RD)	SR 1504 TO NC 279															71,016	71,016		*
TOTAL FOR MAP NO. 9																			71,016	71,016		
		10	SR 1343 (COLLEGE VIEW DR)	NC 279 TO DE							20								3,030	3,030		
TOTAL FOR MAP NO. 10											20								3,030	3,030		
		11	SR 1939 (LANIER AVE & EXTENSION)	MT. HOLLY CL TO DE																		
TOTAL FOR MAP NO. 11																						
		12	SR 1974 (PINEWOOD DR)	SR 1939 TO DE																		
TOTAL FOR MAP NO. 12																						
		13	SR 2200 (GASTON DAY SCH RD)	ROUNDABOUT CHG IN PVMT N TO START OF GUARDRAIL			4,800	300								8					130	
TOTAL FOR MAP NO. 13							4,800	300								8					130	
		14	SR 2200 (GASTON DAY SCH RD)	ROUNDABOUT CHG IN PVMT S TO CHG IN PVMT															6,026	6,026		
TOTAL FOR MAP NO. 14																			**6,026**	**6,026**		
TOTAL FOR PROJ NO. 12CR.20361.14							**28,250**	**4,125**	**920**		**423**		**12**	**4**	**3**	**93**	**3**	**4**	**166,632**	**170,308**	**130**	**1**
							32,375					**12**		**107**					**336,940**			
GRAND TOTAL					**29,604**	**22,700**	**58,916**	**20,825**	**1,500**	**400**	**1,709**	**36**	**12**	**14**	**8**	**204**	**6**	**27**	**166,632**	**170,308**	**2,580**	**1**
					52,304		**79,741**					**48**		**259**					**336,940**			

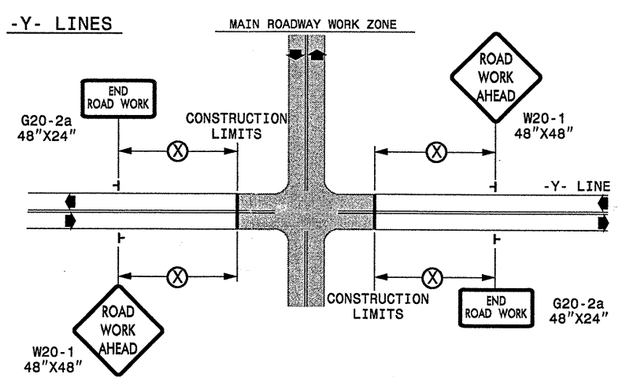
PROJ. REFERENCE NO.	SHEET NO.
12CR10361.12 & 12CR20361.14	TCP-1

TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING Ⓧ
≤ 50	500'
≥ 55	1000'

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

DETAIL DRAWING FOR TWO-WAY UNDIVIDED WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: _____ DATE: _____

SEAL

DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS

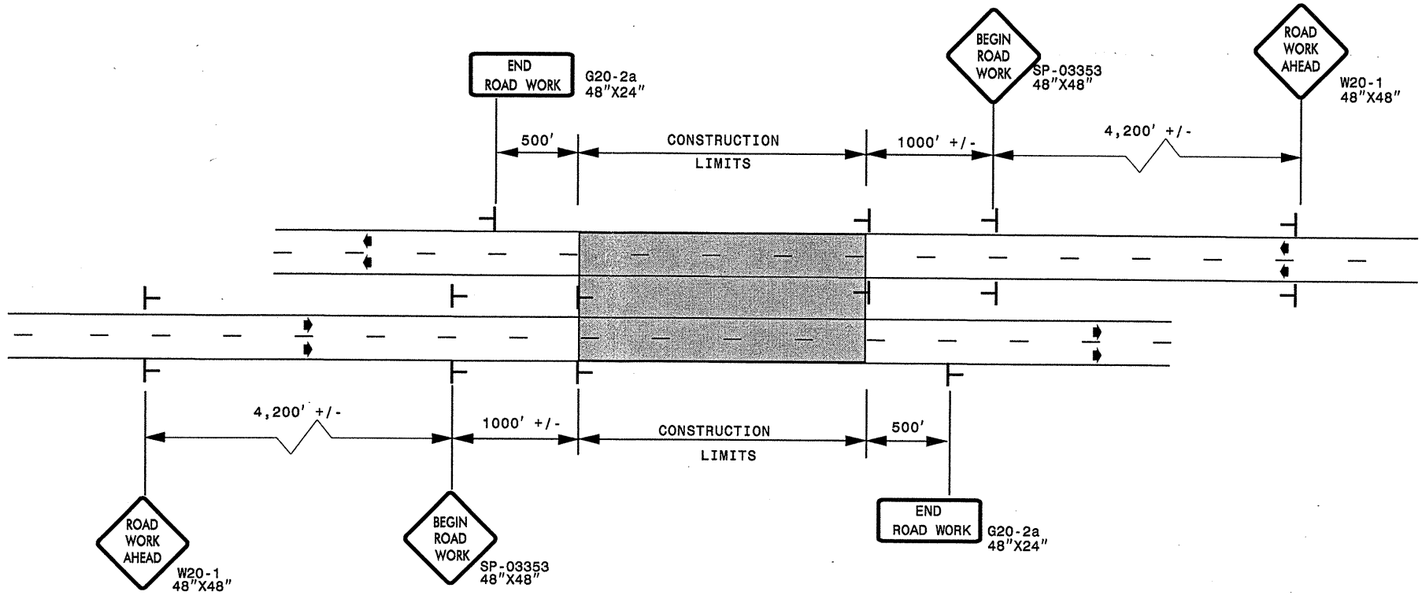
SCALE:	NONE
DATE:	
DWG. BY:	
DESIGN BY:	
REVIEWED BY:	

REVISIONS	
7-98	10/01
10-98	03/04
01/01	11/04
CADD FILE	

ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO.	SHEET NO.
12CR10361.12 & 12CR20361.14	TCP-2

DETAIL A

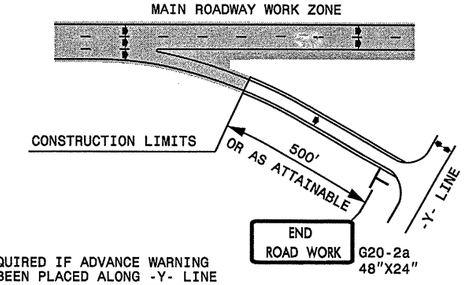


LEGEND
- ⊢ STATIONARY SIGN
- ➧ DIRECTION OF TRAFFIC FLOW

* USE THE "$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B

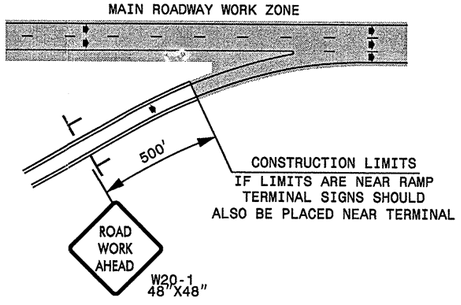
EXIT RAMPS



NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

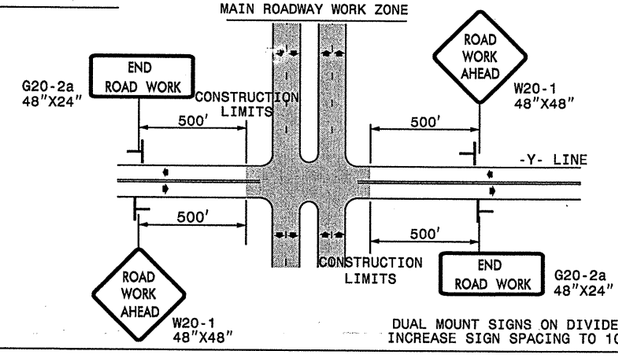
DETAIL C

ENTRANCE RAMPS



DETAIL D

-Y- LINES



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: _____ DATE: _____

SEAL

ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)

SCALE:	NONE
DATE:	8/03
DWG. BY:	JI
DESIGN BY:	JI
REVIEWED BY:	

REVISIONS	
03/04	
CADD FILE	