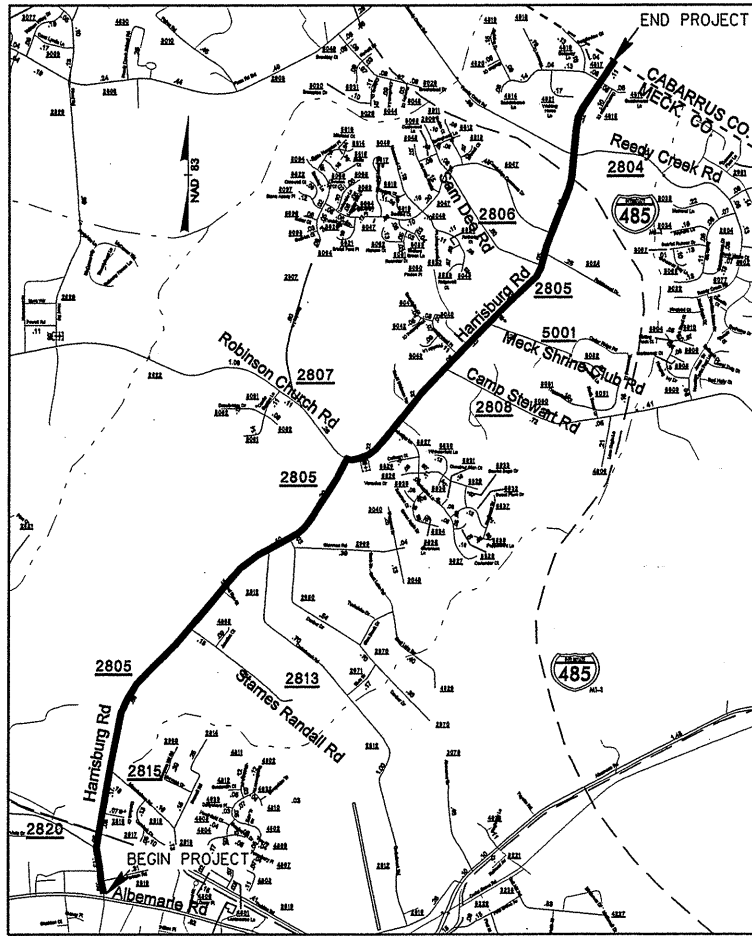


WBS37286

PROJECT: MA10204R



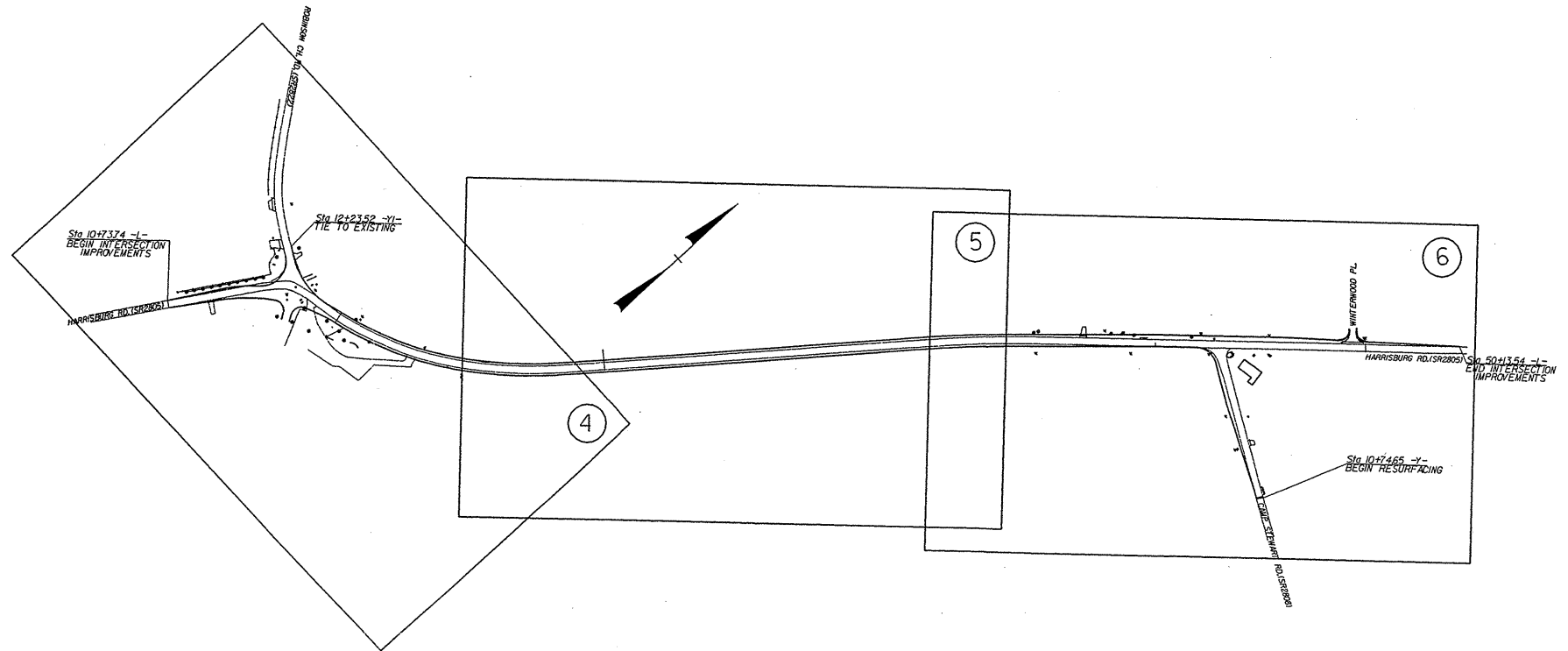
VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

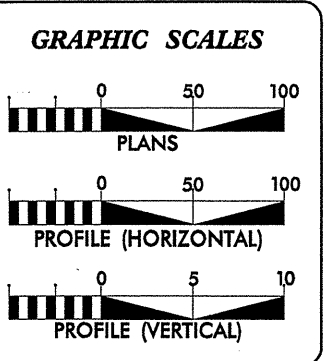
MECKLENBURG COUNTY

LOCATION: HARRISBURG RD. (SR2805) FROM THE PAVEMENT JOINT APPROX. 700' NORTH OF NC 2427 TO THE CABARRUS COUNTY LINE (EXCLUDING THE I-485 AREA).

TYPE OF WORK: GRADING, PAVING, DRAINAGE, PAVEMENT REMOVAL, MILLING & PAVEMENT MARKINGS.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	MA10204R	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
		P.E.	
		R/W	
		CONST.	



DESIGN DATA

ADT	=	
ADT	=	
DHV	=	%
D	=	%
T	=	%
V	=	MPH

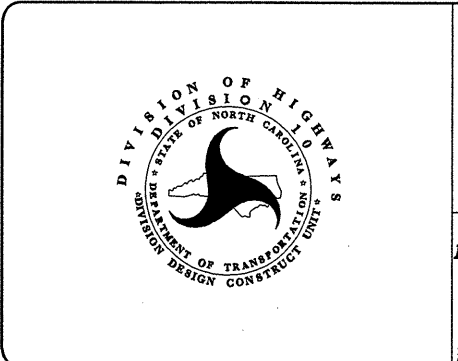
PROJECT LENGTH

TOTAL LENGTH OF STATE PROJECT MA10204R = 3.31 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
DIVISION TEN
DIVISION DESIGN / CONSTRUCT UNIT

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	M.P. MORGAN PROJECT ENGINEER
LETTING DATE:	T.W. BURLESON PROJECT DESIGN ENGINEER



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

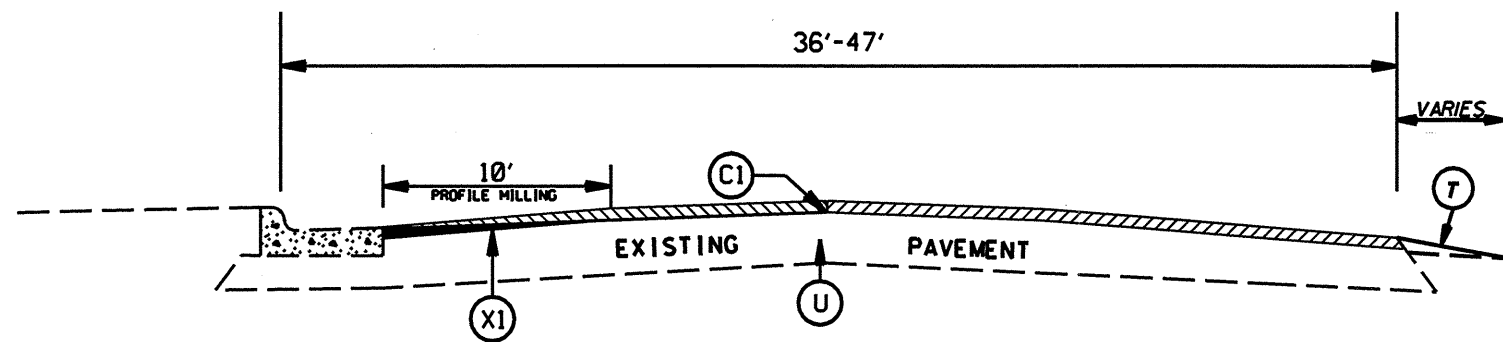
P.E.
STATE HIGHWAY ENGINEER - DESIGN

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

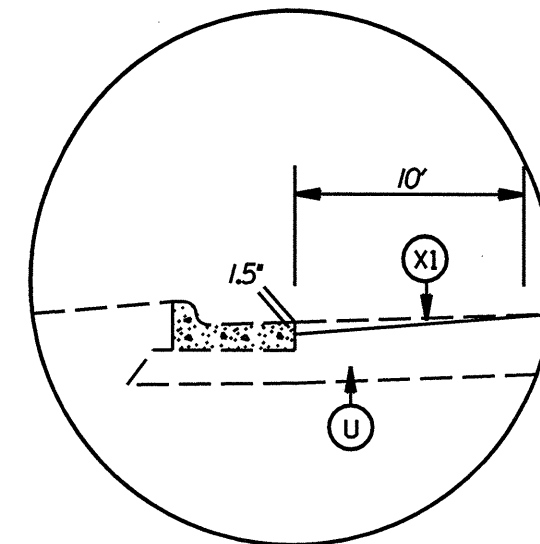
APPROVED FOR
DIVISION ADMINISTRATOR

DATE

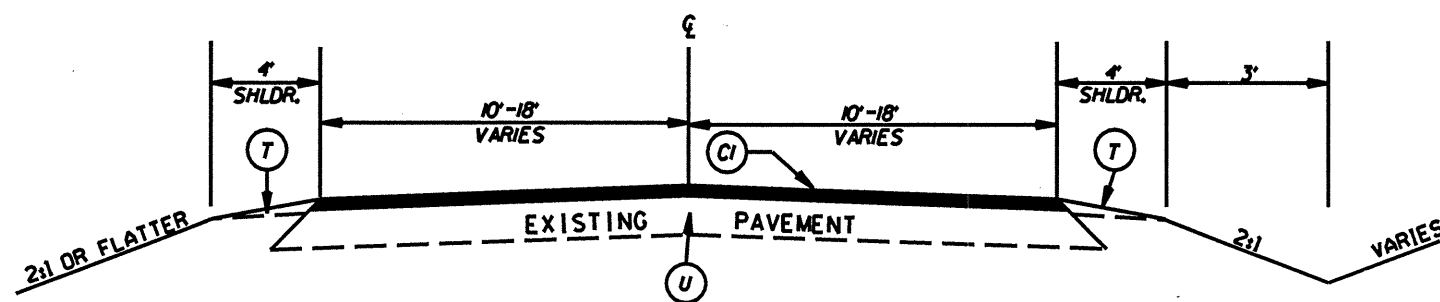
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	MA 10204R	2	
F.A. PROJECT NO.			



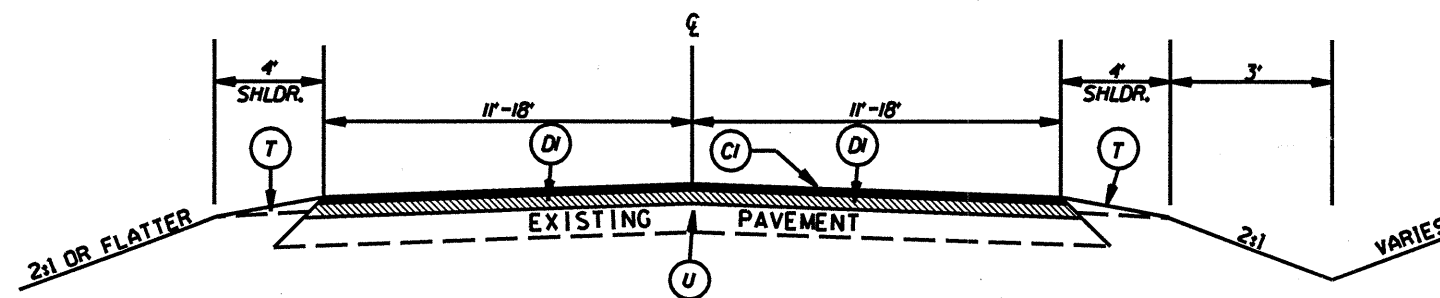
TYPICAL SECTION NO. 3
FOR C&G SECTIONS AS DIRECTED
BY THE ENGINEER.



DETAIL FOR PROFILE MILLING (0" TO 1.5")



TYPICAL SECTION NO. 2
STA. 29+95 TO 36+88.19 -L-
STA. 147+93 TO 170+89 -LI-
STA. 206+32 TO 217+37 -LI-
STA. 7+00 TO 13+00 -LI-



TYPICAL SECTION NO. 1
STA 13+00 -LI- TO STA 107+77 -LI- =
STA 10+00 -L-

PAVEMENT SCHEDULE

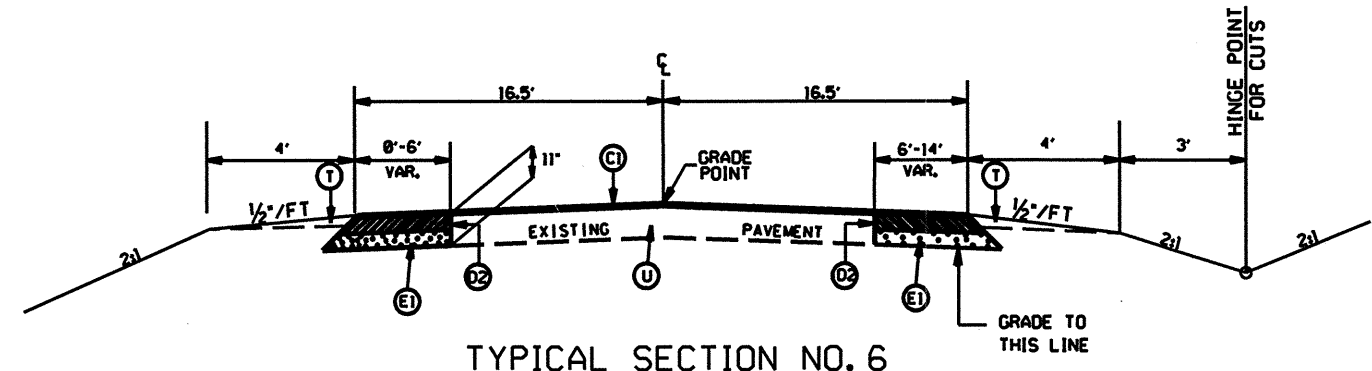
(C1)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1.5" OR GREATER THAN 3" IN DEPTH.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. APPROX. 4" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(D3)	PROP. VAR. DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4" IN DEPTH.
(E1)	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(X1)	PROFILE MILLING (0"-1.5" DEPTH)
(X2)	MILLING ASPHALT PAVEMENT (1.5"-4" DEPTH) - AS DIRECTED BY THE ENGINEER

NOTE: USE TYPICAL SECTIONS 1-3 ON HARRISBURG RD.
FROM NC 24/27 TO STA. 10+73.74 -L- NEAR
ROBINSON CH. RD. INTERSECTION.

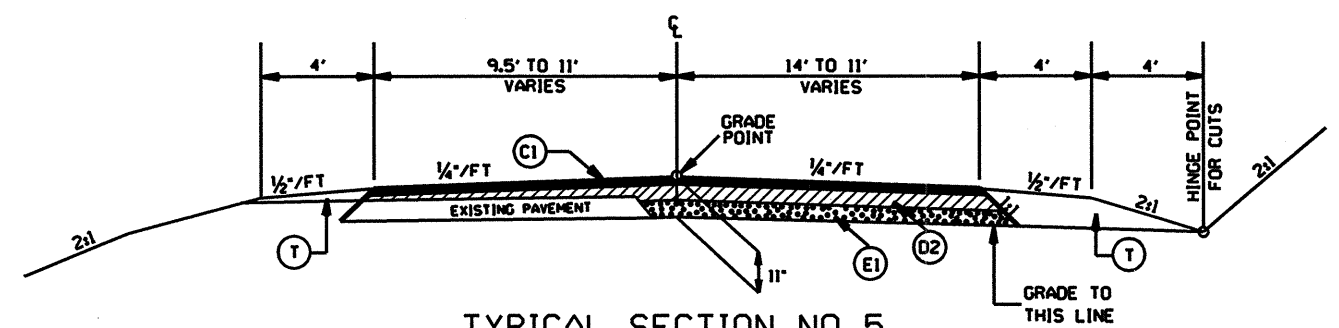
HARRISBURG RD. (SR 2805)
IN MECKLENBURG CO.

SCALE	-NA-		REVISIONS
DATE	09/04		
DWG. BY	TWB		
DESIGN BY			
APPROVED			

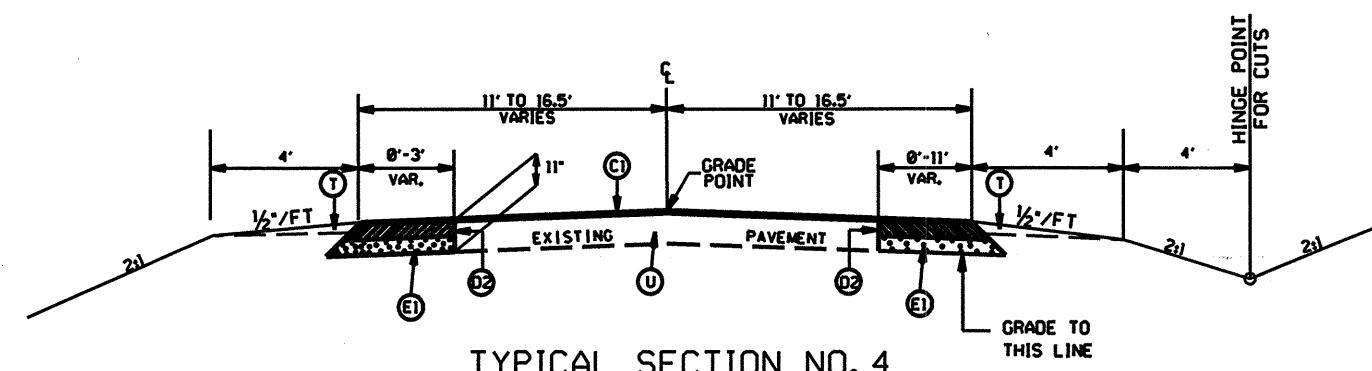
PROJECT REFERENCE NO. MA0204R	SHEET NO. 2A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER



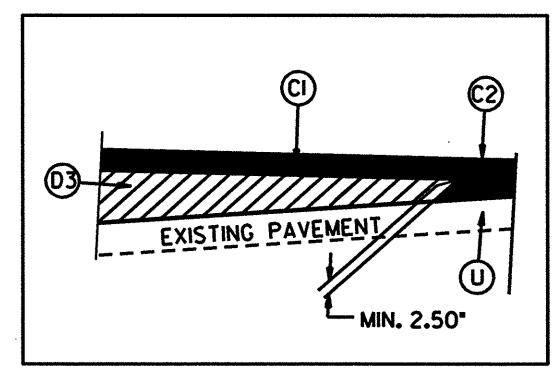
TYPICAL SECTION NO. 6
-L-
STA. 15+60 TO 21+50



TYPICAL SECTION NO. 5
-L-
STA. 13+15 TO 15+60



TYPICAL SECTION NO. 4
-L-
STA. 10+73.74 TO 13+15

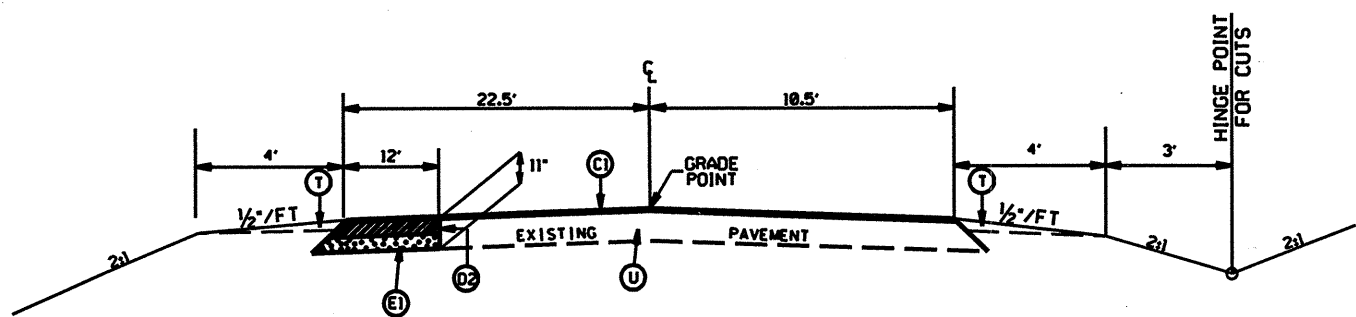


WEDGING DETAIL

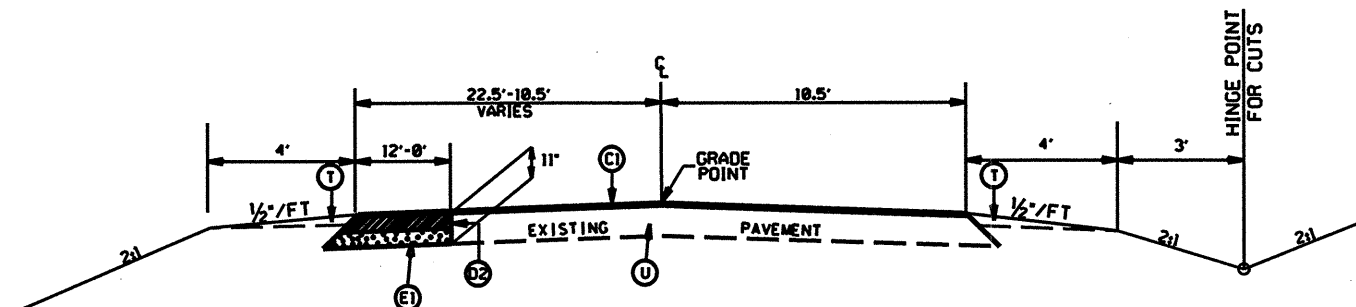
PAVEMENT SCHEDULE

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(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT

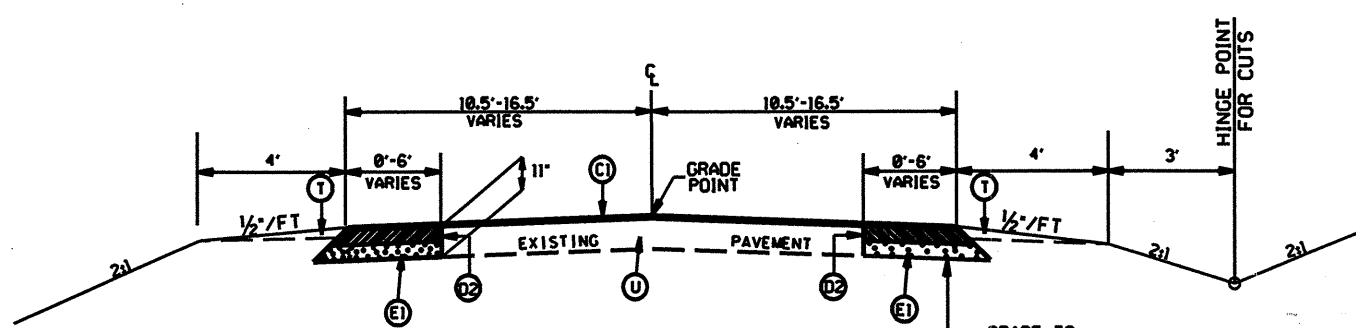
6/2/05
SYSTEMS
PLANNING
DESIGN
CONSTRUCTION



TYPICAL SECTION NO. 9
-L-
STA. 42+28.19 TO 44+73.54



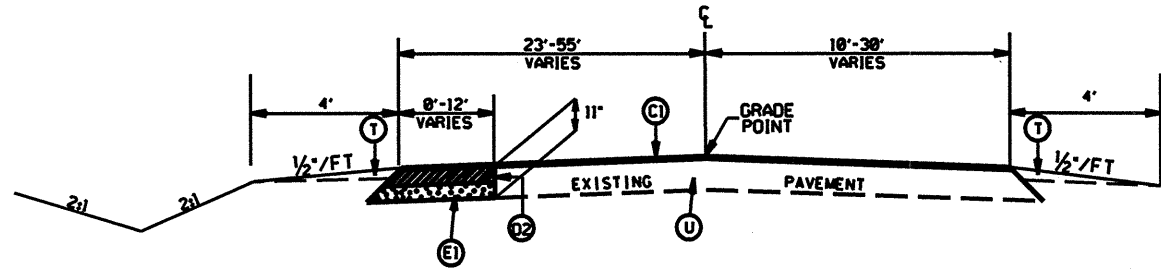
TYPICAL SECTION NO. 8
-L-
STA. 36+88.19 TO 42+28.19
STA. 44+73.54 TO 50+13.54 =
147+93 -LI-



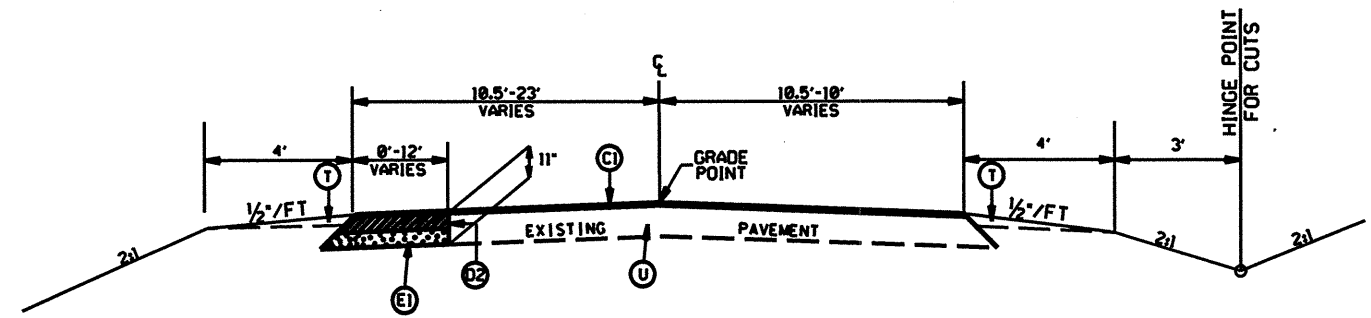
TYPICAL SECTION NO. 7
-L-
STA. 21+50 TO 29+95

PAVEMENT SCHEDULE

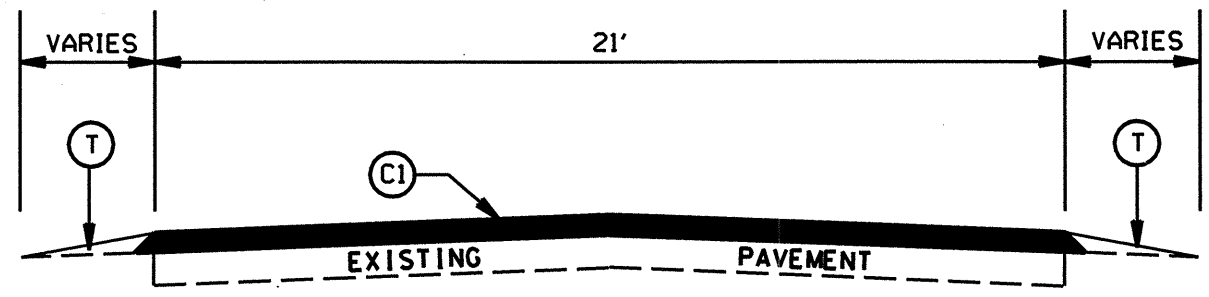
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(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT



TYPICAL SECTION NO. 12
-Y-
STA. 13+74.65 TO 15+48.47



TYPICAL SECTION NO. 11
-Y-
STA. 11+24.65 TO 13+74.65



TYPICAL SECTION NO. 10
STA. 29+25 TO 36+88.19 -L-
STA. 10+74.65 TO 11+24.65 -Y-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAN 1.5" OR GREATER THAN 3" IN DEPTH.
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T	EARTH MATERIAL
U	EXISTING PAVEMENT

6/2/99

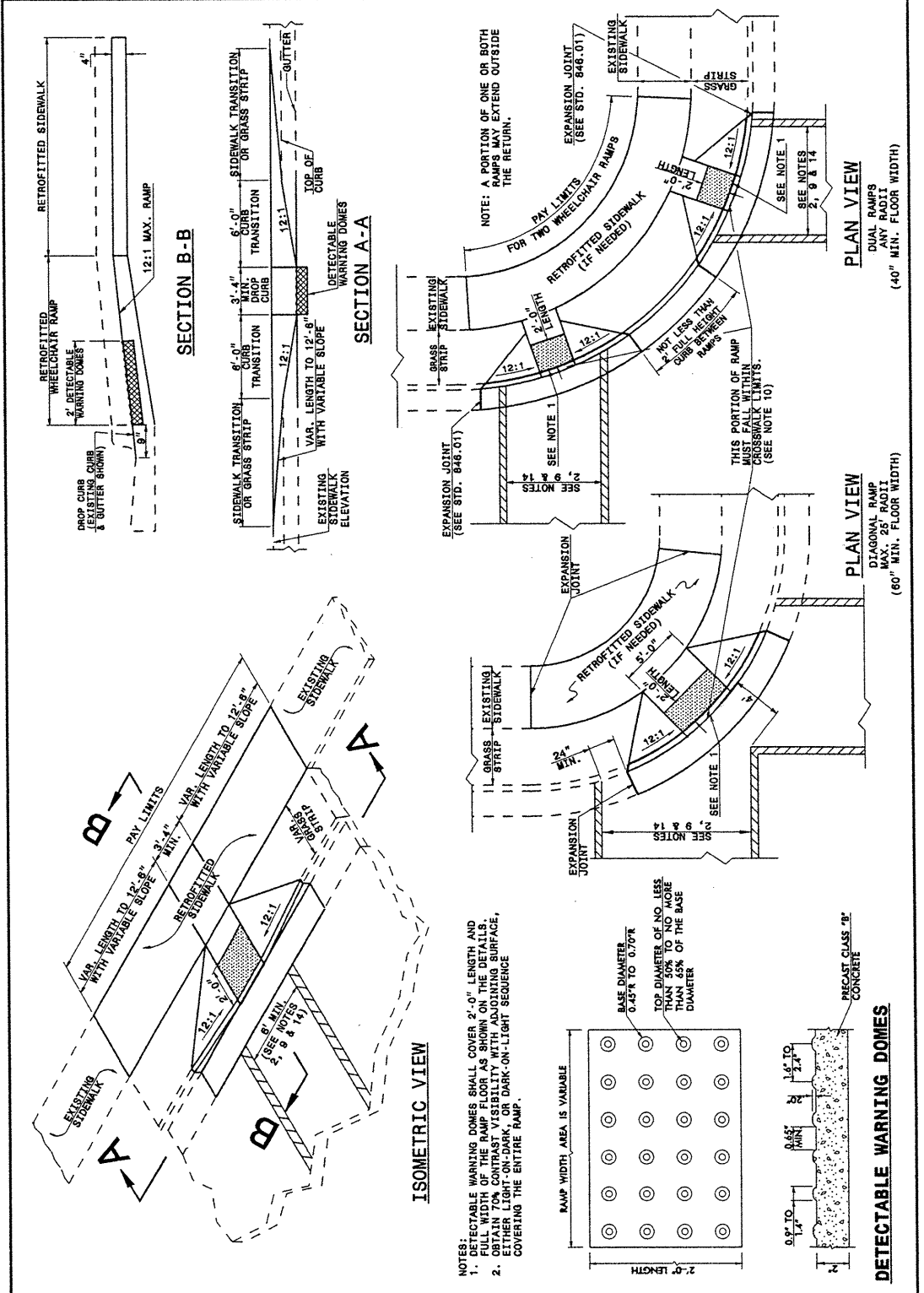
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK WITH GRASS STRIP
CURB CUT

SHEET 1 OF 5
848D06



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

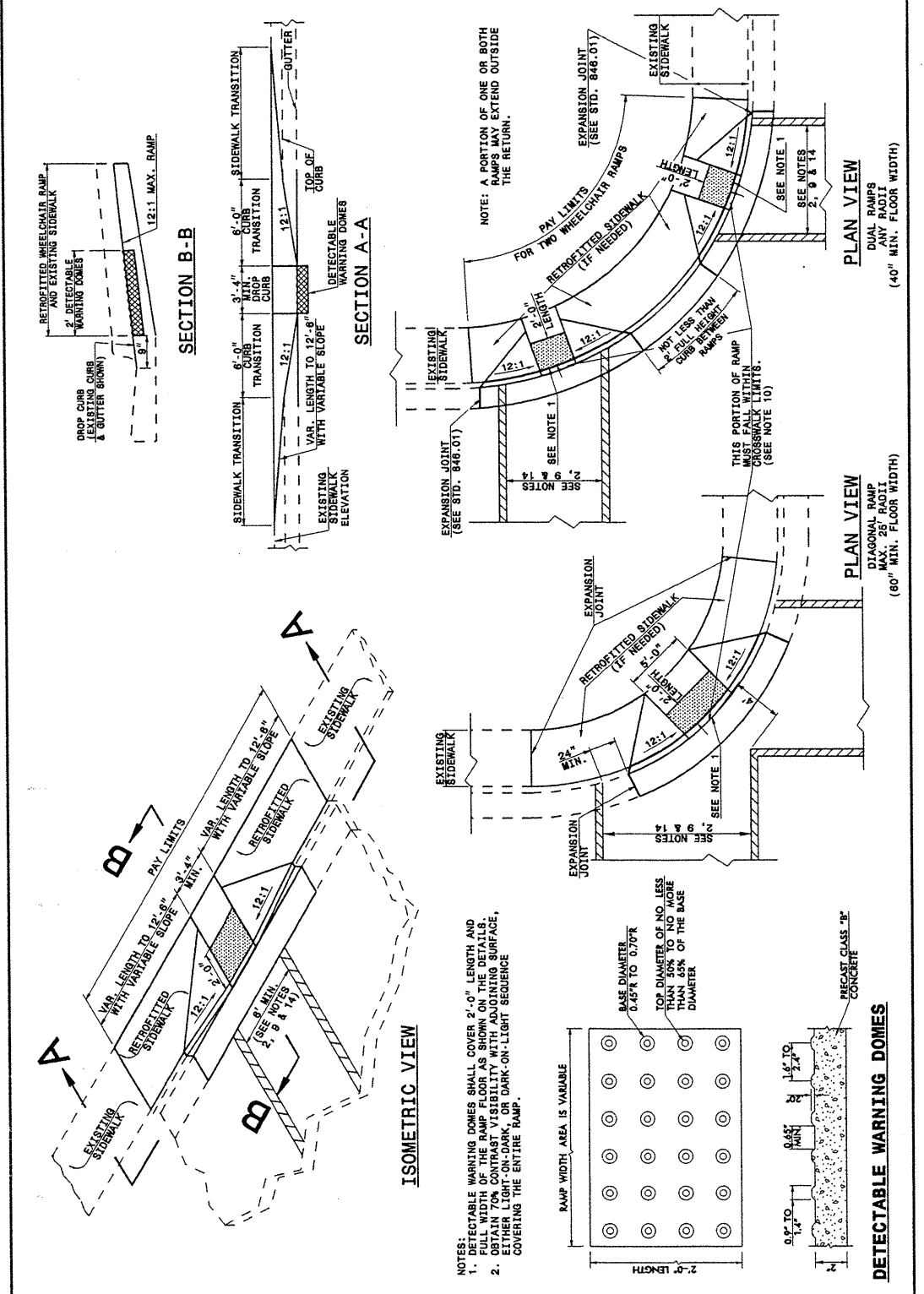
ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK WITH GRASS STRIP
CURB CUT

SHEET 1 OF 5
848D06

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

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK ADJACENT TO CURB
CURB CUT

SHEET 2 OF 5
848D06



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

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK ADJACENT TO CURB
CURB CUT

SHEET 2 OF 5
848D06

PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: DETAIL 848D05 DATE:
MODIFIED BY: E.E. WARD DATE: 09-06-05
CHECKED BY: DATE:
FILE SPEC.: /usr/stds/02tdetail/english/84806/848d06.dgn

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

ENGLISH DETAIL DRAWING FOR
 WHEELCHAIR RAMP AND EXISTING SIDEWALK
 CURB CUT

SHEET 5 OF 5
 848D06

NOTES:

1. CONSTRUCT THE WALKING SURFACE WITH SLIP RESISTANCE 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 UTILITIES 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, 1978 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 SIMILAR 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 AND 60" (5'-0") OR GREATER FOR DIAGONAL RAMPS.
7. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
8. PLACE A 1/2" EXPANSTON 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 RADIUS, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP IS INSTALLED. (SEE NOTE 14)
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.

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

ENGLISH DETAIL DRAWING FOR
WHEELCHAIR RAMP AND EXISTING SIDEWALK
 CURB CUT

SHEET 5 OF 5
 848D06

PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN Office 919-250-4128 FAX 919-250-4119	
SEE PLATE FOR TITLE	
ORIGINAL BY: <u>DETAIL 848D05</u>	DATE:
MODIFIED BY: <u>E.E. WARD</u>	DATE: <u>09-06-05</u>
CHECKED BY:	DATE:
FILE SPEC: <u>usr/stds/02todetail/english/84806/848d06.dgn</u>	

PROJECT NO.	SHEET NO.	TOTAL NO.
MA10204R	3	

SUMMARY OF QUANTITIES

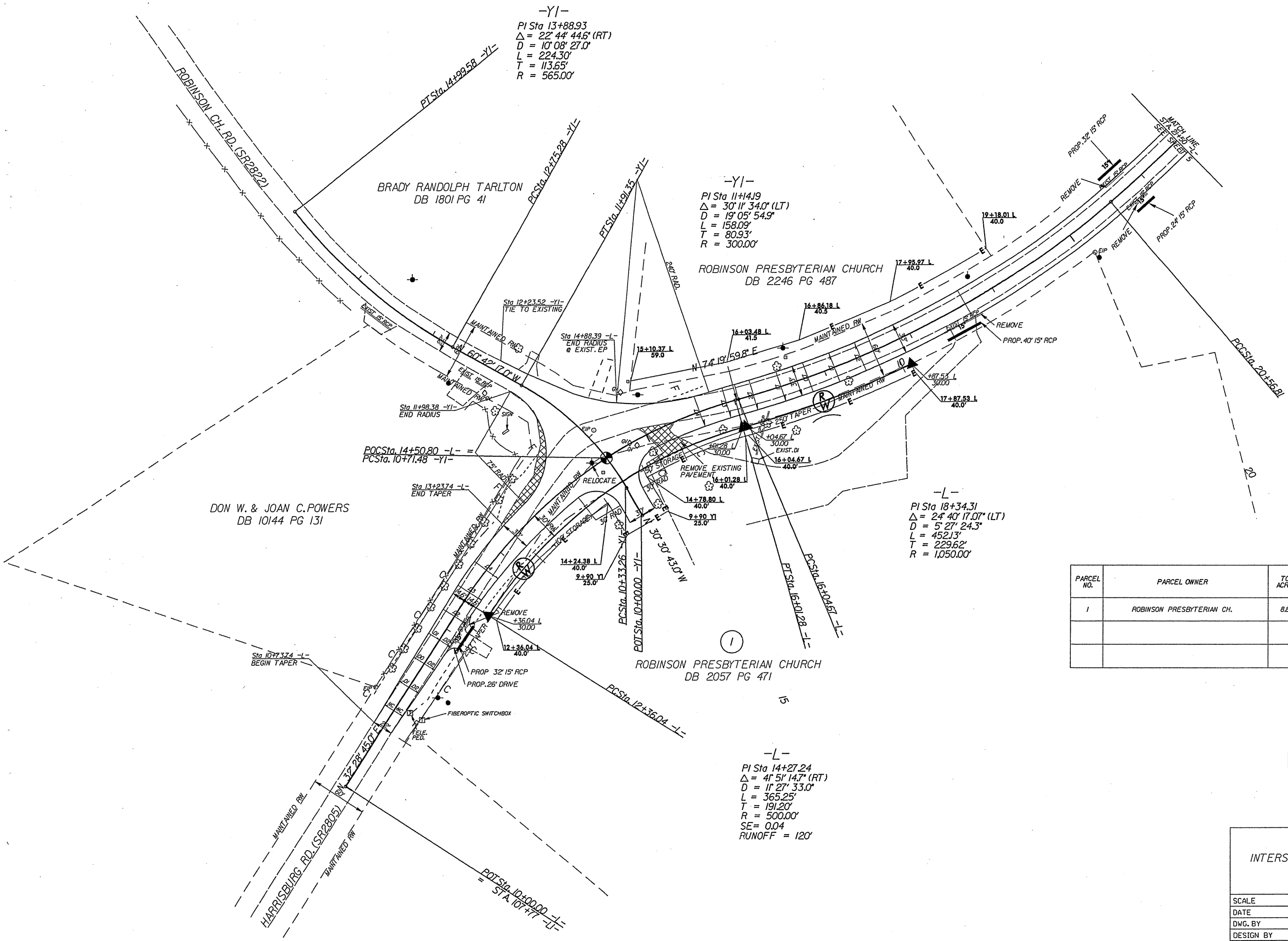
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LENGTH MI	WIDTH FT	CLEARING & GRUBBING LS	UNDERCUT EXCAVATION CY	BORROW CY	REMOVAL OF EXISTING PAVEMENT SY	GRADING LS	15" RCP, CLASS III LF	18" RCP, CLASS III LF	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	DITCHING LF	0" TO 1.5" MILLING SY	1.5" TO 4" MILLING SY	BASE COURSE, B25.0C TONS	INTERMEDIATE COURSE, I19.0C TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, TYPE S9.5C TONS	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS
MA10204R	Mecklenburg	1	HARRISBURG RD.	FROM PAVEMENT JOINT APPROX. 700' NORTH OF NC 24/27 TO THE CABARRUS CO. LINE		3.31	22	1.00	500.00	500.00	200.00	1.00	400.00	72.00	500.00	5.00	1,000.00	600.00	600.00	1,330.00	5,310.00	4,630.00	100.00	307.00	284.00	500.00
TOTAL FOR PROJ NO. MA10204R						3.31	22	1.00	500.00	500.00	200.00	1.00	400.00	72.00	500.00	5.00	1,000.00	600.00	600.00	1,330.00	5,310.00	4,630.00	100.00	307.00	284.00	500.00
GRAND TOTAL						3.31	22	1.00	500.00	500.00	200.00	1.00	400.00	72.00	500.00	5.00	1,000.00	600.00	600.00	1,330.00	5,310.00	4,630.00	100.00	307.00	284.00	500.00

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LENGTH MI	WIDTH FT	RETROFIT EXIST. WHEELCHAIR RAMP EA	PIPE COLLARS CY	PIPE PLUGS CY	MASONRY DRAINAGE STR. EA	FRAME & GRATE, DETAIL 840.16 EA	6" DRIVEWAYS SY	ADJUST MANHOLES EA	ADJUST METER OR VALVE BOX EA	PAVEMENT REPAIR TONS	RELOCATE EXISTING WATER METER EA	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TONS	SEDIMENT CONTROL STONE TONS	SILT EXCAVATION CY	SEED & MULCHING AC	PIPE REMOVAL LF	FOUNDATION CONDITIONING MATERIAL TONS	FABRIC FOR SOIL STABILIZATION SY	POLICE HR
MA10204R	Mecklenburg	1	HARRISBURG RD.	FROM PAVEMENT JOINT APPROX. 700' NORTH OF NC 24/27 TO THE CABARRUS CO. LINE		3.31	22	5.00	1.20	1.00	1.00	1.00	200.00	2.00	2.00	20.00	2.00	3,000.00	150.00	80.00	100	10.0	400.0	50	200	40
TOTAL FOR PROJ NO. MA10204R						3.31	22	5.00	1.20	1.00	1.00	1.00	200.00	2.00	2.00	20.00	2.00	3,000.00	150.00	80.00	100	10.0	400.0	50	200	40
GRAND TOTAL						3.31	22	5.00	1.20	1.00	1.00	1.00	200.00	2.00	2.00	20.00	2.00	3,000.00	150.00	80.00	100	10.0	400.0	50	200	40

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E	4686000000-E	4695000000-E	4705000000-E	4710000000-E	4721000000-E			4810000000-E		4835000000-E	4900000000-N		
					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	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG SCHOOL 120 M EA	THERMO RXR 120 M EA	THERMO LT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	24" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA	CRYSTAL & RED MARKERS EA
MA10204R	Mecklenburg	1	HARRISBURG RD.	FROM PAVEMENT JOINT APPROX. 700' NORTH OF NC 24/27 TO THE CABARRUS CO. LINE	35,000	5,000	35,000	400	80	150	12	4	22	35,000	35,000	150	200	50
TOTAL FOR PROJ NO. MA10204R					35,000	5,000	35,000	400	80	150	12	4	22	35,000	35,000	150	200	50
GRAND TOTAL					35,000	5,000	35,000	400	80	150	12	4	22	35,000	35,000	150	200	50

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	MAI0204R	4	
F.A. PROJECT NO.			



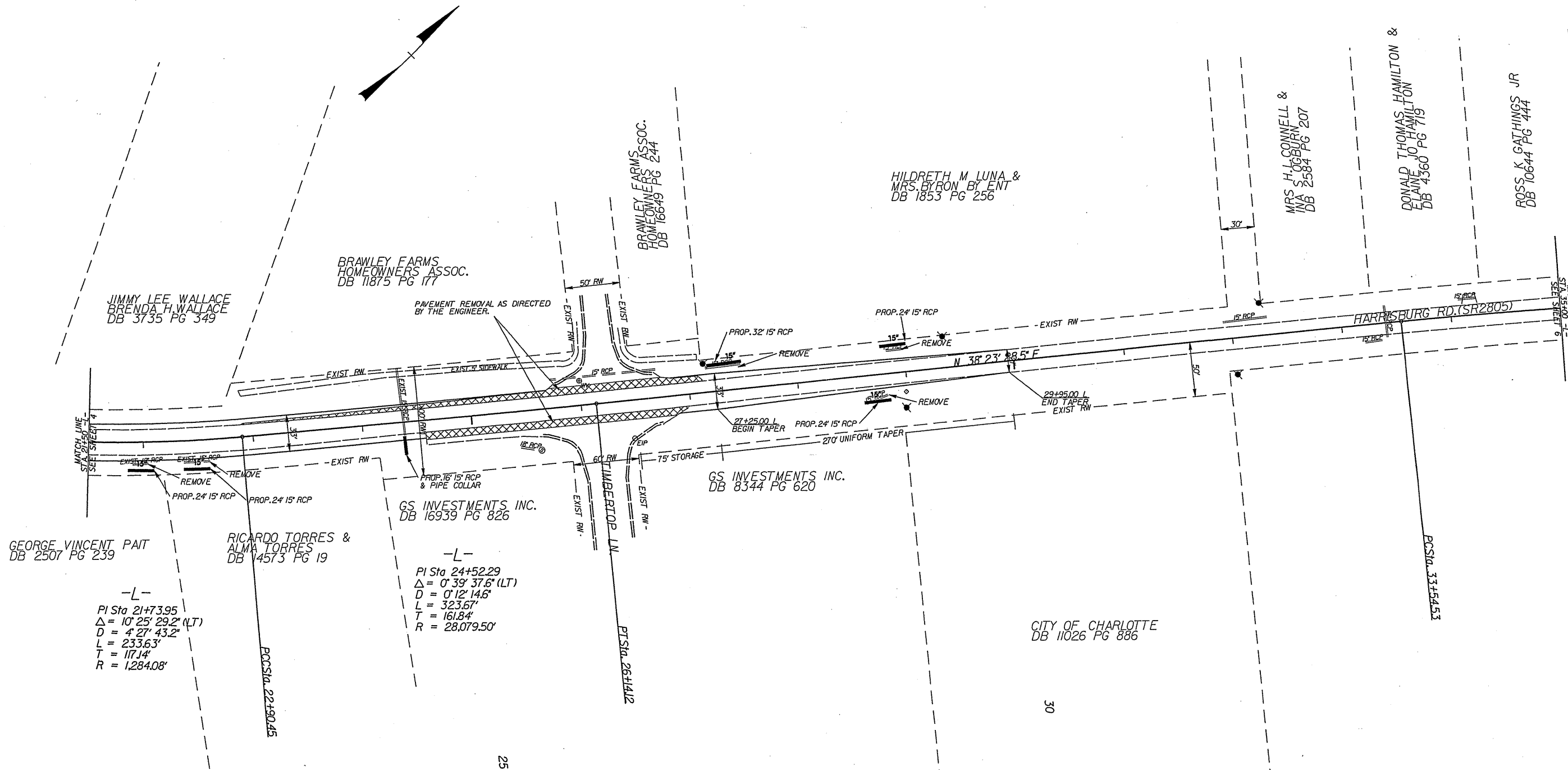
PARCEL NO.	PARCEL OWNER	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING	TEMP. CONST. EASE.	PERM. DRAIN. EASE.
1	ROBINSON PRESBYTERIAN CH.	8.8 AC	0.12 AC	8.68 AC	11,522 SF	

PAVEMENT REMOVAL

INTERSECTION OF ROBINSON CH. RD. (SR2822)
& HARRISBURG RD. (SR2805)

SCALE	1"=50'		REVISIONS
DATE	5/04		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	MPM		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		5	
F.A. PROJECT NO.			



HARRISBURG RD. (SR2805)

SCALE	1"=50'		REVISIONS
DATE	06/04		
DWG. BY	TWB		
DESIGN BY	RWB		
APPROVED	MPM		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		6	
F.A. PROJECT NO.			

-L-
 P1 S10 35+82.20
 $\Delta = 5^{\circ} 32' 47.3" (RT)$
 $D = 113' 08.6"$
 $L = 454.98'$
 $T = 227.67'$
 $R = 4700.00'$

CARL W. FORD SR
 & EDNA G. FORD
 DB 2154 PG 523

WILLIAM P. TURNER &
 WINIFRED F. TURNER
 DB 1988 PG 135

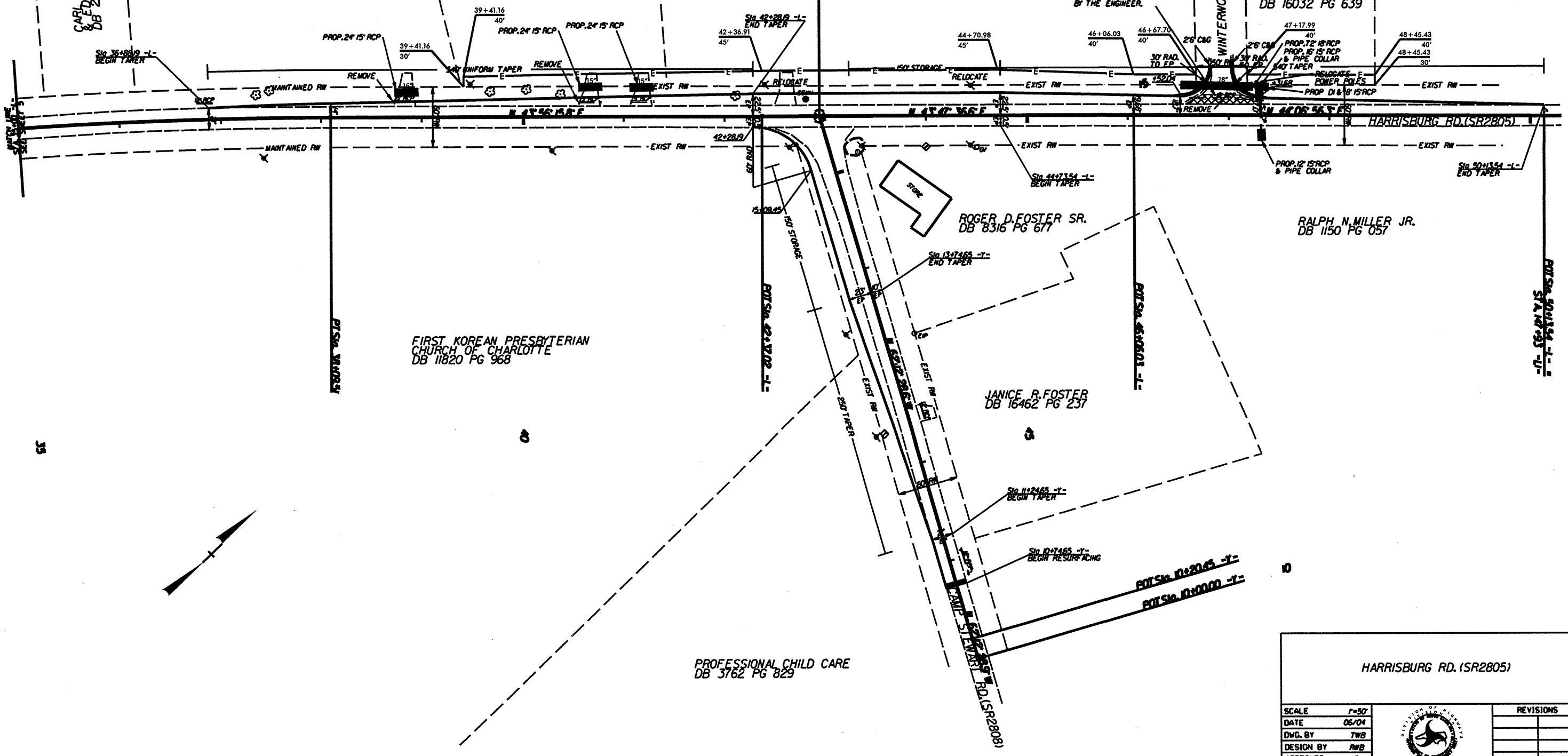
CARRI BENSON
 DB 11579 PG 895

FRANK CASEY

PAVEMENT REMOVAL AS DIRECTED
 BY THE ENGINEER.

ROBERT POLK
 DB 16032 PG 639

WINTERWOOD PL



FIRST KOREAN PRESBYTERIAN
 CHURCH OF CHARLOTTE
 DB 11820 PG 968

ROGER D. FOSTER SR.
 DB 8316 PG 677

RALPH N. MILLER JR.
 DB 1150 PG 057

JANICE R. FOSTER
 DB 16462 PG 237

PROFESSIONAL CHILD CARE
 DB 3762 PG 829

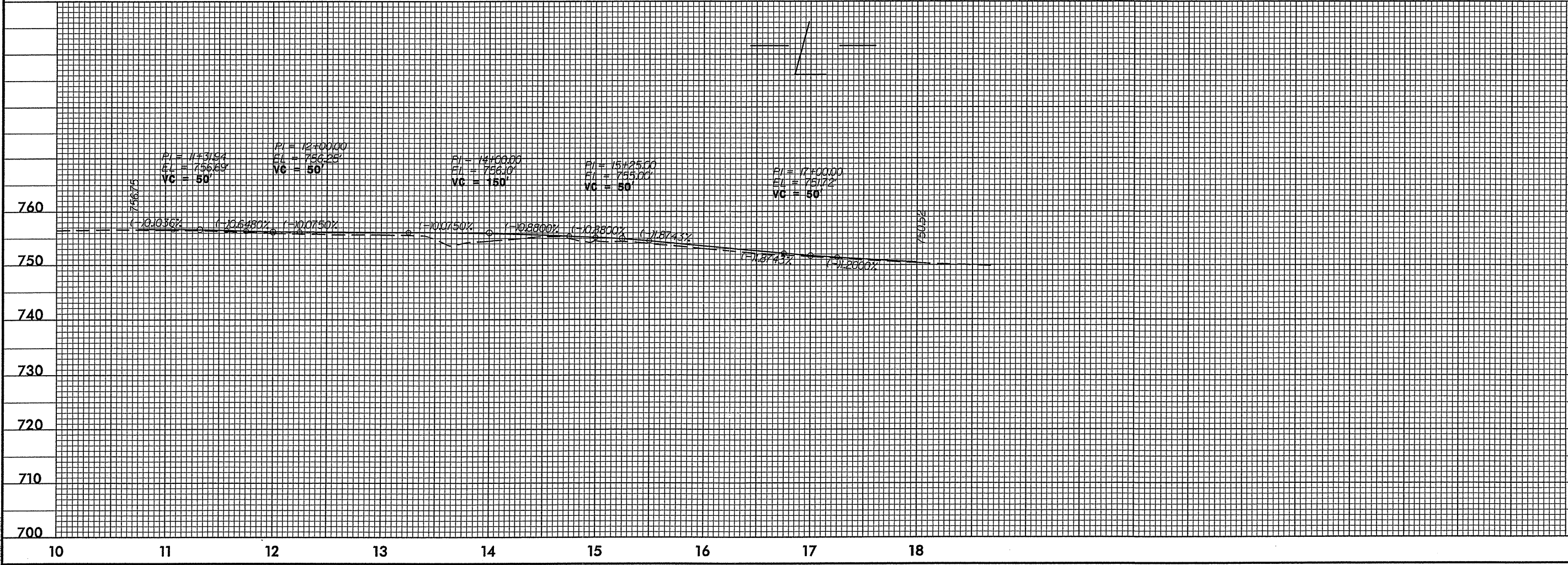
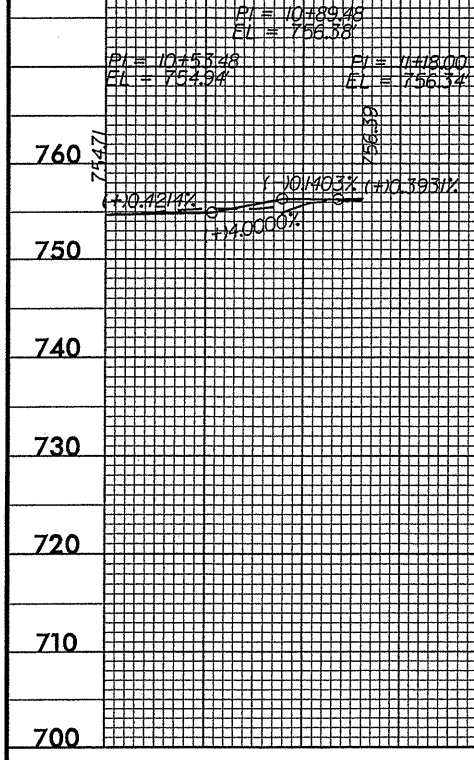
HARRISBURG RD. (SR2805)

SCALE	1"=50'		REVISIONS
DATE	06/04		
DWG. BY	TWB		
DESIGN BY	RWB		
APPROVED	MPM		

5/28/99

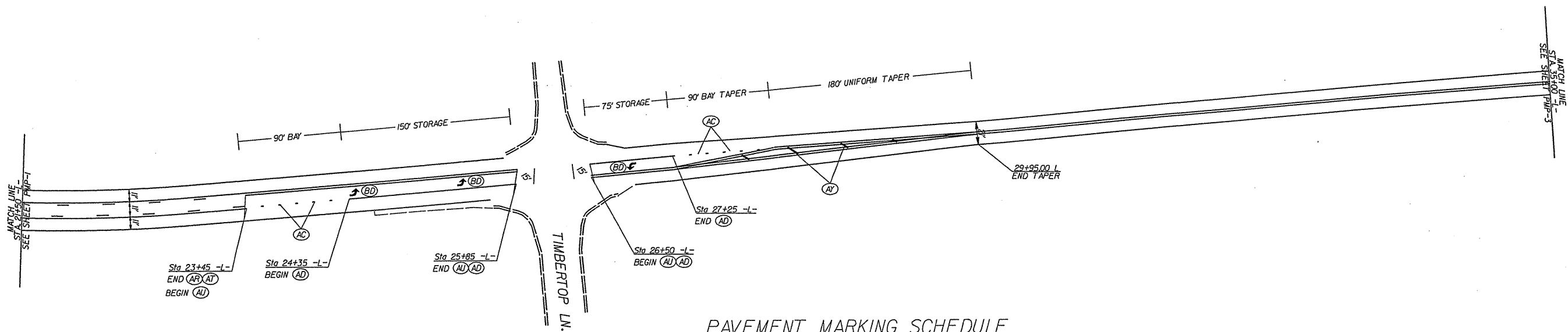
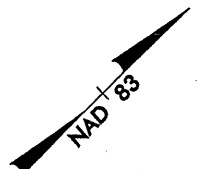
PROJECT REFERENCE NO. MA10204R	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

YI



21-MAR-2006 15:24
D:\RDX\Mecklenburg\RobinsonCh\PROF\Robinson_mae2.pfl
Run-leson

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	MA0204R	PMP-2	
F.A. PROJECT NO.			



PAVEMENT MARKING SCHEDULE

PAY ITEM	DESCRIPTION
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PAVEMENT MARKING LINES

AA - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGELINE
AB - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 10' SKIP
AC - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 2' MINISKIP
AD - THERMOPLASTIC (4" WHITE, 120 MILS)	SOLID LANE LINE
AJ - THERMOPLASTIC (8" WHITE, 90 MILS)	GORELINE
AJ - THERMOPLASTIC (8" WHITE, 90 MILS)	DIAGONALS
AO - THERMOPLASTIC (24" WHITE, 120 MILS)	STOP BAR
AP - THERMOPLASTIC (24" WHITE, 120 MILS)	CROSSWALK LINE
AR - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 10' SKIP
AT - THERMOPLASTIC (4" YELLOW, 120 MILS)	SINGLE CENTER
AU - THERMOPLASTIC (4" YELLOW, 120 MILS)	DOUBLE CENTER LINE
AY - THERMOPLASTIC (8" YELLOW, 90 MILS)	DIAGONALS

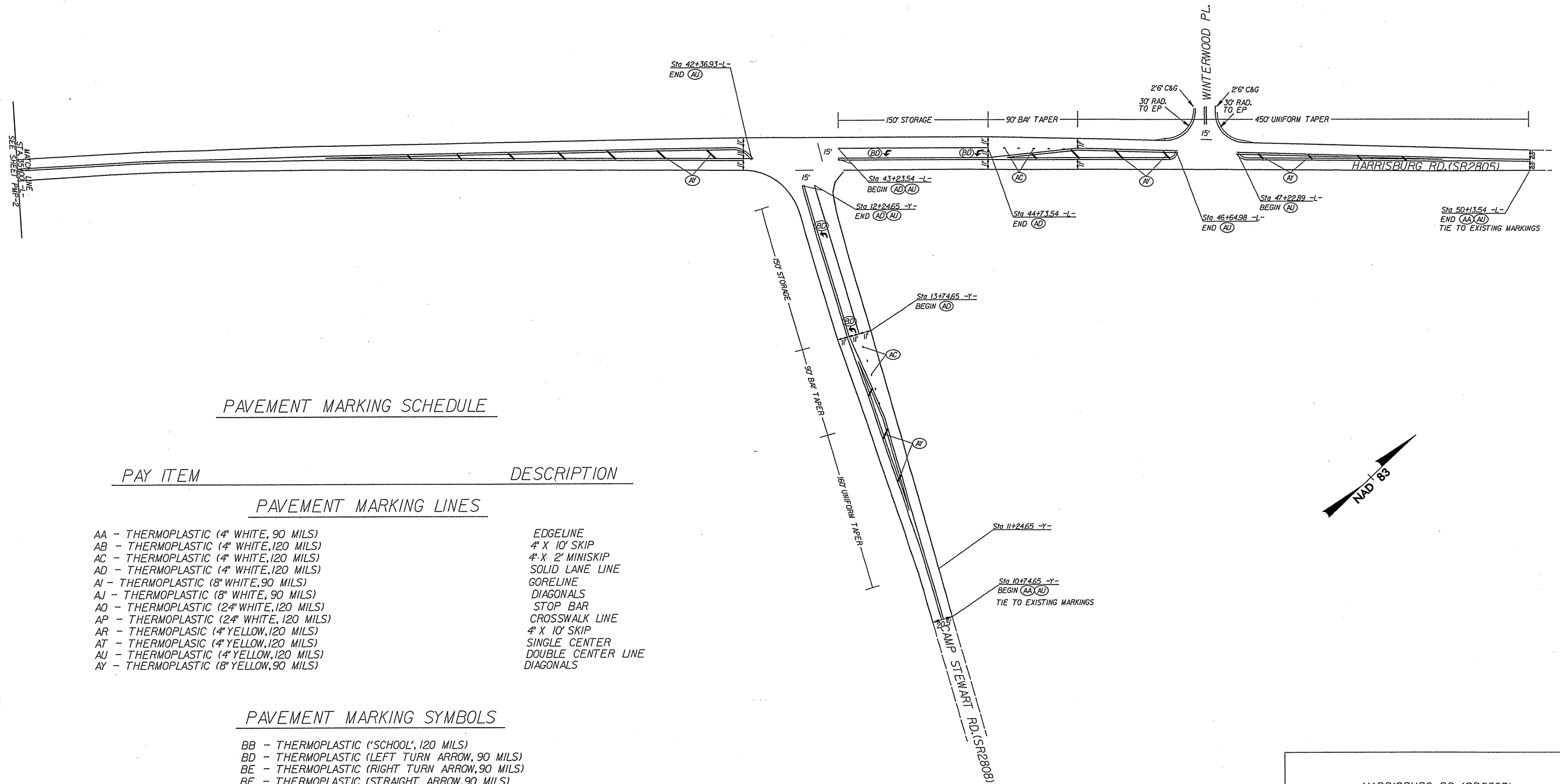
PAVEMENT MARKING SYMBOLS

BB - THERMOPLASTIC ("SCHOOL", 120 MILS)
BD - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)
BE - THERMOPLASTIC (RIGHT TURN ARROW, 90 MILS)
BF - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
BH - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT ARROW, 90 MILS)
BM - THERMOPLASTIC ("STOP", 120 MILS)

HARRISBURG RD. (SR2805)

SCALE	1"=50'		REVISIONS
DATE	06/04		
DWG. BY	TWB		
DESIGN BY	RWB		
APPROVED	MPM		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	MA0204R	PMP-3	
F.A. PROJECT NO.			



PAVEMENT MARKING SCHEDULE

PAY ITEM

DESCRIPTION

PAVEMENT MARKING LINES

- AA - THERMOPLASTIC (4" WHITE, 90 MILS)
- AB - THERMOPLASTIC (4" WHITE, 120 MILS)
- AC - THERMOPLASTIC (4" WHITE, 120 MILS)
- AD - THERMOPLASTIC (4" WHITE, 120 MILS)
- AI - THERMOPLASTIC (8" WHITE, 90 MILS)
- AJ - THERMOPLASTIC (8" WHITE, 90 MILS)
- AO - THERMOPLASTIC (24" WHITE, 120 MILS)
- AP - THERMOPLASTIC (24" WHITE, 120 MILS)
- AR - THERMOPLASTIC (4" YELLOW, 120 MILS)
- AT - THERMOPLASTIC (4" YELLOW, 120 MILS)
- AU - THERMOPLASTIC (4" YELLOW, 120 MILS)
- AY - THERMOPLASTIC (8" YELLOW, 90 MILS)

- EDGELINE
- 4" X 10' SKIP
- 4" X 2' MINISKIP
- SOLID LANE LINE
- GORELINE
- DIAGONALS
- STOP BAR
- CROSSWALK LINE
- 4" X 10' SKIP
- SINGLE CENTER
- DOUBLE CENTER LINE
- DIAGONALS

PAVEMENT MARKING SYMBOLS

- BB - THERMOPLASTIC ('SCHOOL', 120 MILS)
- BD - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)
- BE - THERMOPLASTIC (RIGHT TURN ARROW, 90 MILS)
- BF - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
- BH - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT ARROW, 90 MILS)
- BM - THERMOPLASTIC ('STOP', 120 MILS)

HARRISBURG RD. (SR2805)

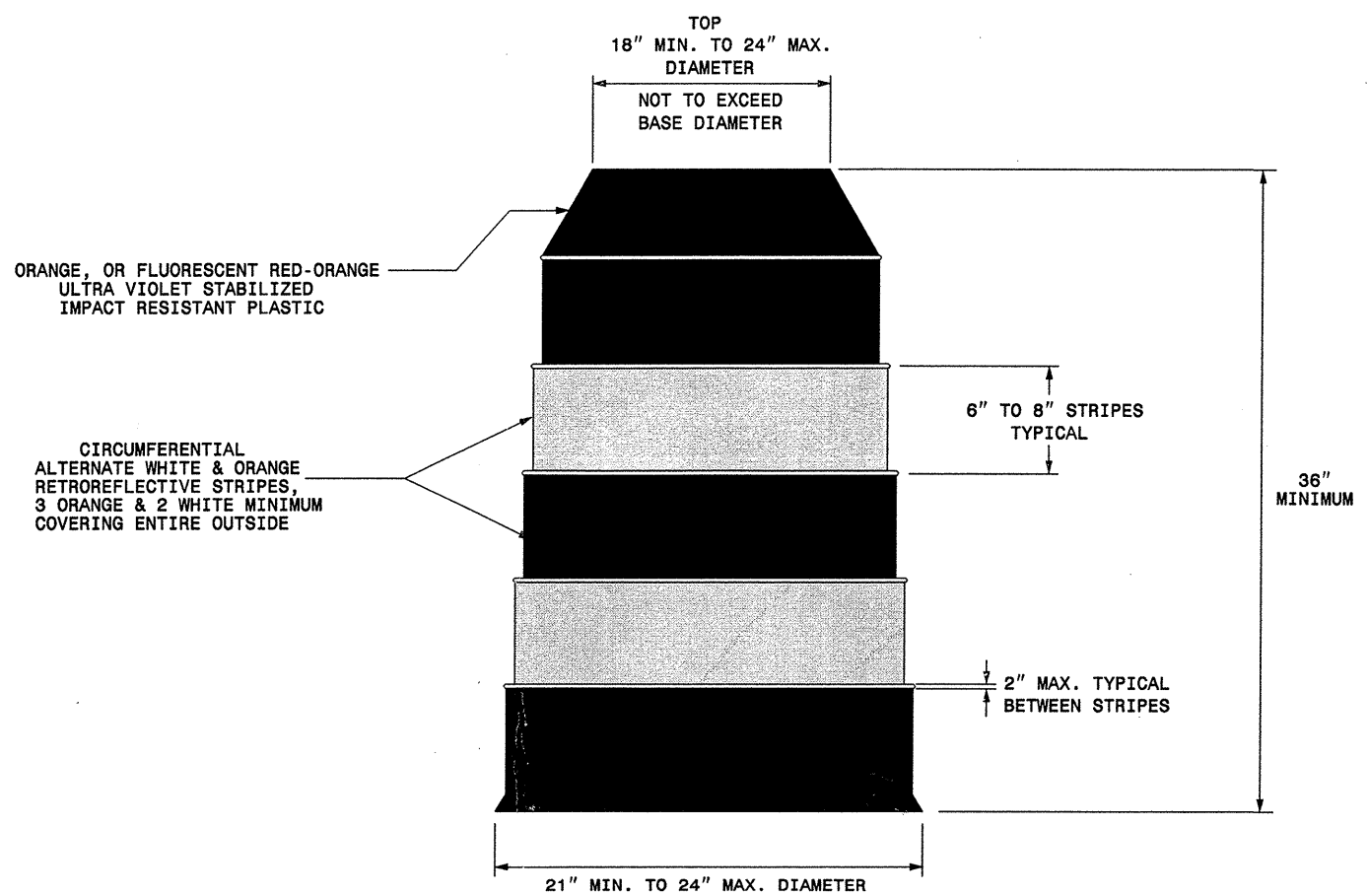
SCALE	1"=50'		REVISIONS
DATE	06/04		
DWG. BY	TWB		
DESIGN BY	RWB		
APPROVED	MPM		

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

ENGLISH STANDARD DRAWING FOR
DRUMS

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

ENGLISH STANDARD DRAWING FOR
DRUMS

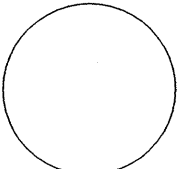



GENERAL NOTES

- BALLASTING SHALL BE ACHIEVED BY THE SAND BAG, TIRE-SIDEWALL BALLAST, OR PREFORMED WEIGHTED BASE BALLASTING METHODS. DO NOT PLACE BALLAST ON TOP OF THE DRUM.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-RETROREFLECTIVE DRUM SURFACES. SHOW THE LETTERS AND NUMBERS USING A NON-RETROREFLECTIVE COLOR AND NOT OVER 2" IN HEIGHT.

SHEET 1 OF 1
1130D01

SHEET 1 OF 1
1130D01

APPROVED: _____ DATE: _____	REPLACEMENT DETAIL FOR RSD 1130.01	
	SCALE: NONE	REVISIONS
	DATE: 4/02	11/02
	DWG. BY: MMM	
	DESIGN BY: MMM	
REVIEWED BY: MMM		
		CADD FILE

I7-APR-2006 17:14
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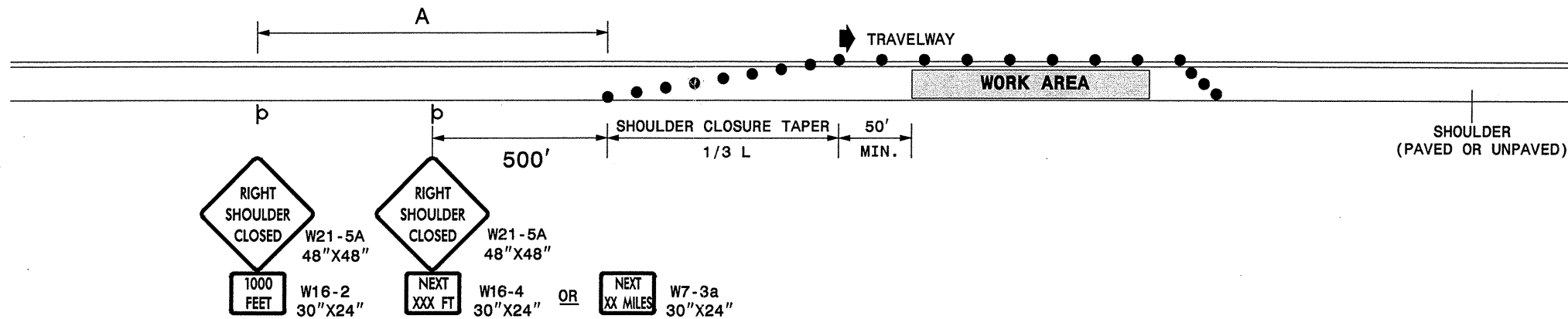
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-05

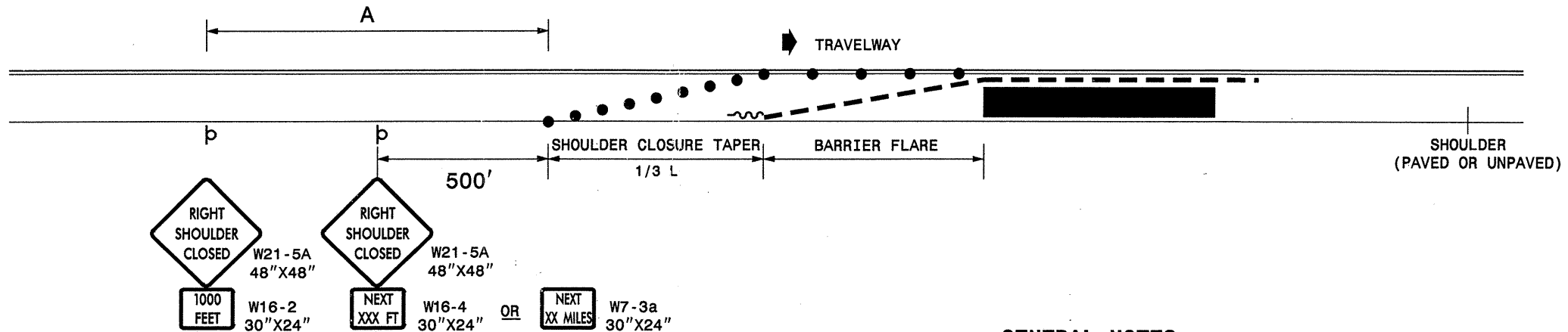
ENGLISH STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101D04

SHOULDER CLOSURES UTILIZING DRUMS



SHOULDER CLOSURES UTILIZING TEMPORARY BARRIER



GENERAL NOTES

- PLACE SHOULDER CLOSURE SIGNS ON THE SAME SIDE AS THE SHOULDER THAT IS CLOSED.
- PLACE DRUMS IN THE SHOULDER TAPER AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MAXIMUM SPACING OF DRUMS ALONG THE WORK AREA AND BARRIER FLARE IS EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- FLARE THE APPROACH END OF PORTABLE CONCRETE BARRIER BEYOND THE SHOULDER AND USE A CRASH CUSHION FOR PROTECTION IF THE EXPOSED END OF THE BARRIER IS WITHIN THE "CLEAR ZONE".
- USE STATIONARY SIGNS FOR LONG TERM OPERATIONS (LONGER THAN 3 DAYS).
- REFER TO STD. 1101.11 SHEETS 1, 3, & 4, FOR "L" DISTANCE, BARRIER FLARE RATES, AND SIGN SPACING.

LEGEND

- ~ TEMPORARY CRASH CUSHION
- - - PORTABLE CONCRETE BARRIER
- DRUM
- ⊔ STATIONARY OR PORTABLE SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

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

1-05


ENGLISH STANDARD DRAWING FOR
TEMPORARY SHOULDER CLOSURES

SHEET 1 OF 1
1101D04

APPROVED: _____	DATE: _____	REPLACEMENT DETAIL FOR RSD 1101.04	
SCALE: NONE	DATE: 11/04		REVISIONS
DWG. BY: PS	DESIGN BY: JPG		08/05
REVIEWED BY: MMM			

TWO LANE, TWO WAY WORK ZONE (L-LINES)

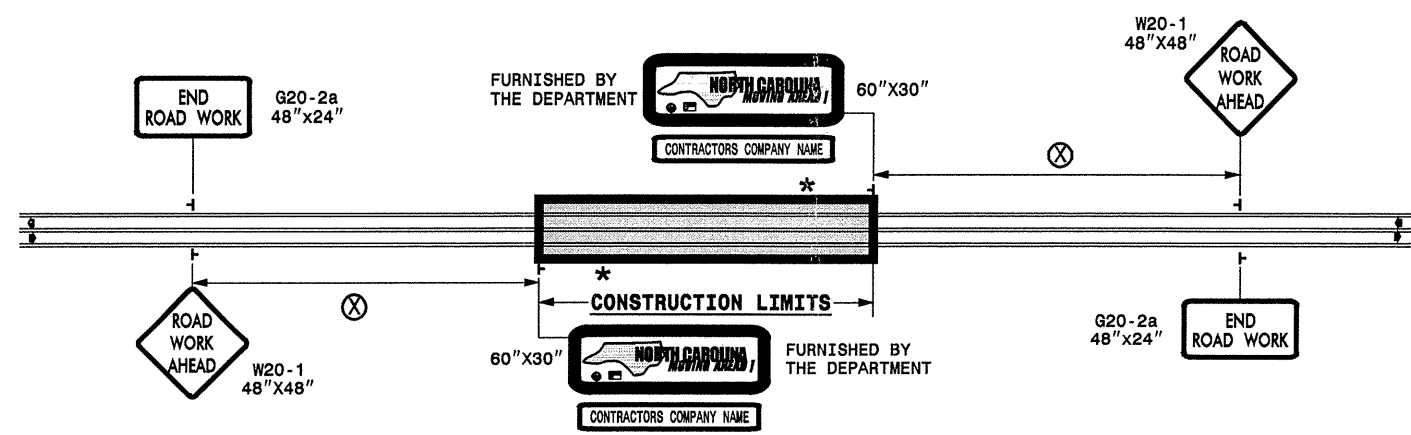
FURNISHED BY THE DEPARTMENT



60" X 30"

CONTRACTORS COMPANY NAME

60" Max. X 12"



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
P.S.L. ≤ 50	⊗
P.S.L. ≥ 55	350'

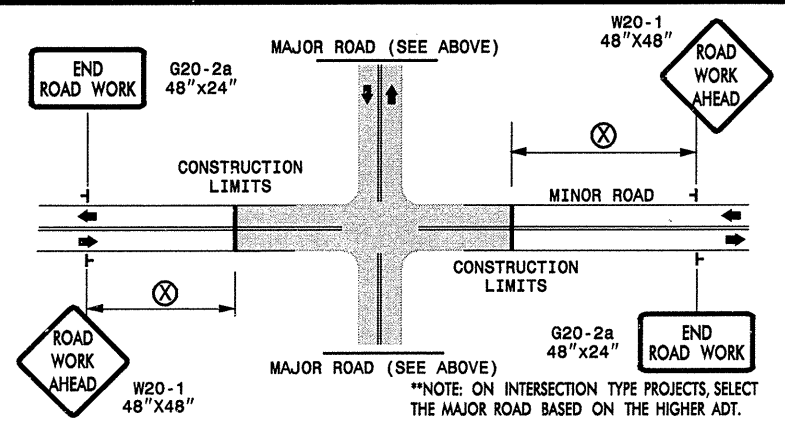
*** ROAD WORK NEXT XX MILES** G20-1A, 60"x24"

THIS SIGN TO BE USED ON PROJECTS LONGER THAN 2 MILES. THE NUMBER DISPLAYED ON THE SIGN IS TO BE A WHOLE NUMBER ROUNDED UP TO THE NEXT MILE. IT'S TO BE LOCATED 1,500 FEET INSIDE OF THE CONSTRUCTION LIMITS.

PROJ. REFERENCE NO. 37286	SHEET NO. NCMA-1
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STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

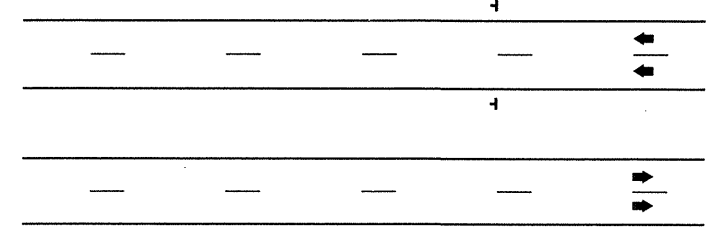
INTERSECTIONS (-Y- LINES)



FREEWAYS / INTERSTATES

DUAL MOUNT "ROAD WORK AHEAD" SIGNS 1,000' IN ADVANCE OF PROJECT LIMITS

DUAL MOUNT "MOVING AHEAD" SIGNS 500' IN ADVANCE OF PROJECT LIMITS



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. USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- 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.


LEGEND

⊥ STATIONARY SIGN

◀ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING FOR ADVANCE
 WARNING WORK ZONE SIGNS

SHEET 1 OF 1

APPROVED: _____	DATE: _____	ADVANCE WARNING WORK ZONE SIGNS FOR "MOVING AHEAD"	
SEAL	SCALE: NONE		REVISIONS
	DATE: 07/03		11/04
	DWG. BY: JSK		12/04
	DESIGN BY: JSK		
	REVIEWED BY: SK		