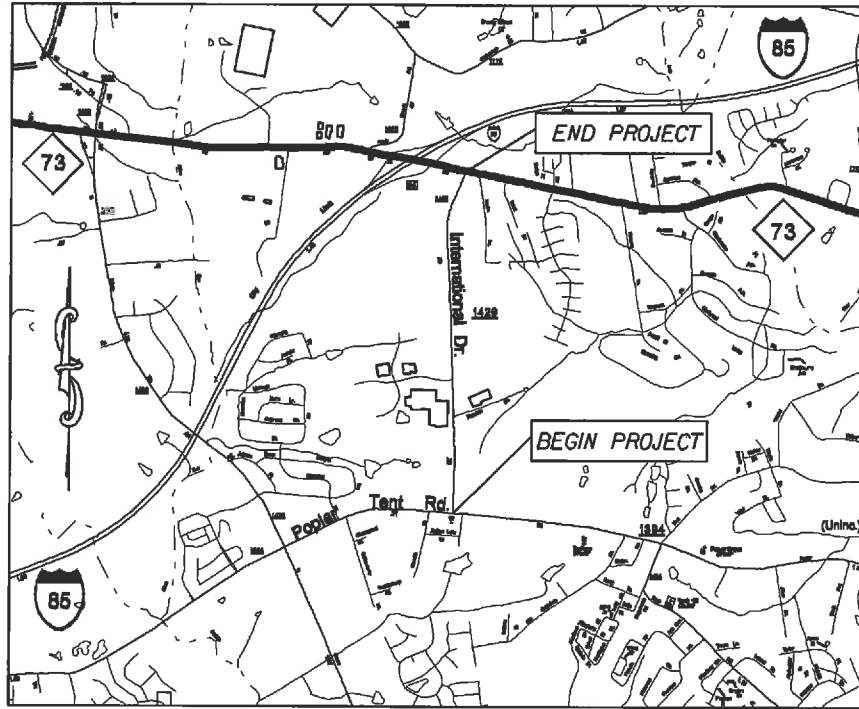


**PROJECT: WBS-43071**

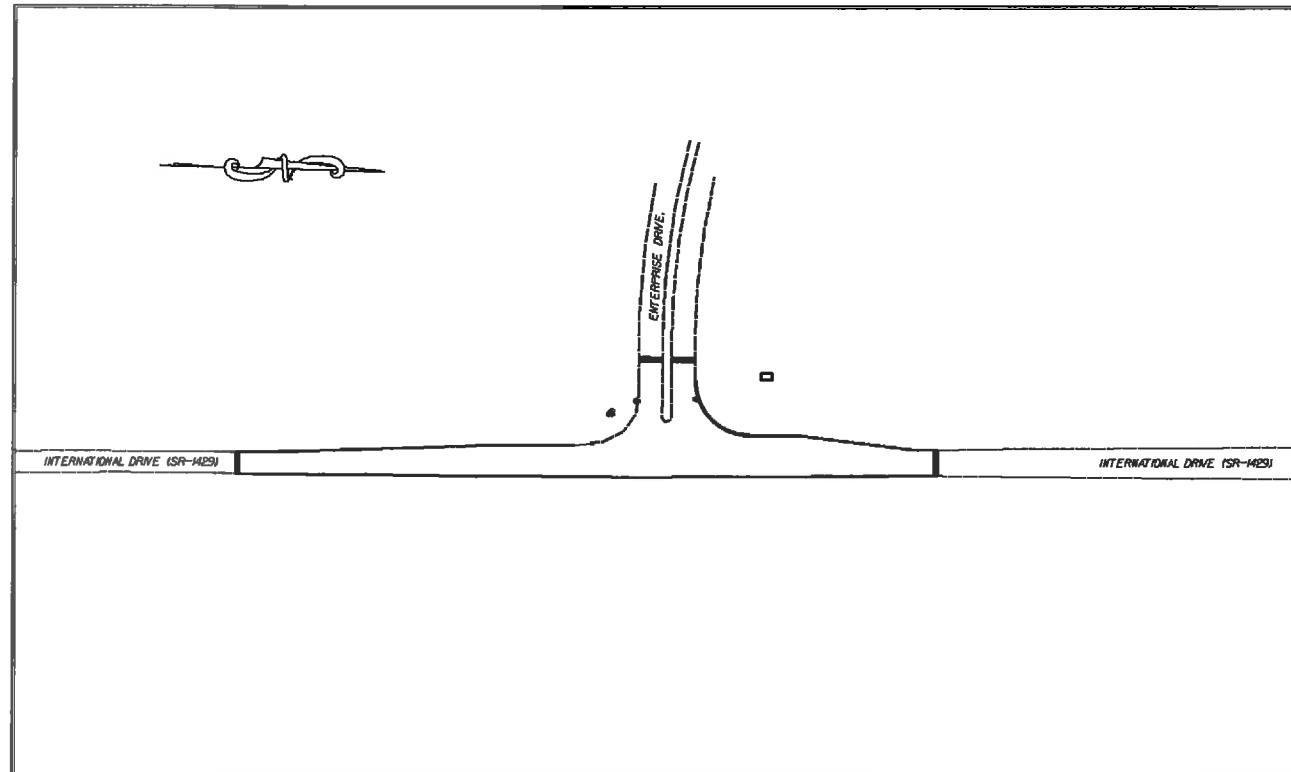


VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**CABARRUS COUNTY**

**LOCATION:** INTERNATIONAL DR. (SR-1429) FROM POPLAR TENT RD  
(SR-1394) TO NC 73

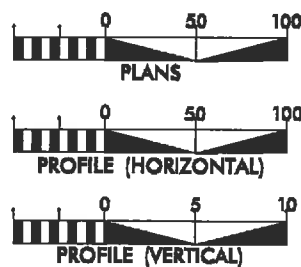
**TYPE OF WORK:** GRADING, PAVING, MILLING, CURB & GUTTER,  
DRAINAGE & THERMOPLASTIC PAVEMENT MARKINGS.



CLEARING ON THIS PROJECT SHALL BE TO  
THE LIMITS ESTABLISHED BY METHOD II AS  
DESCRIBED IN THE NCDOT STANDARD DRAWINGS

STATE	STATE PROJECT REFERENCE NO.	APP. NO.	TOTAL SHEETS
N.C.	WBS-43071	1	
STATE PRINCE	P.A. PRINCE	DESCRIPTION	
		P.E.	
		R/W	
		CONST.	

**GRAPHIC SCALES**



**DESIGN DATA**

ADT 2004 = 14000  
ADT 2025 = 17,300  
DHV = 10 %  
D = %  
T = %  
V = 50 MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 43071 = 1.37 MILES  
TOTAL LENGTH OF STATE PROJECT 43071 = 1.37 MILES

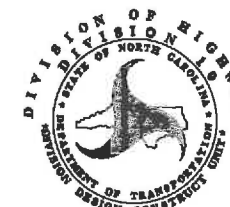
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
DIVISION TEN  
DIVISION DESIGN / CONSTRUCT UNIT

RIGHT OF WAY DATE:

**RANDY BOWERS**  
PROJECT ENGINEER

LETTING DATE:  
May 16, 2012

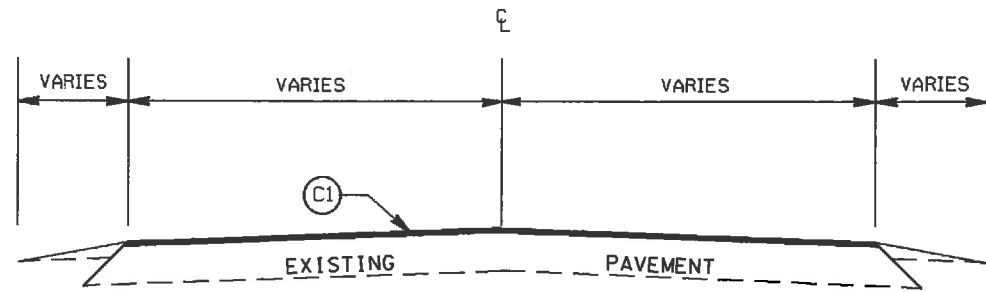
**TERRY BURLESON**  
PROJECT DESIGN ENGINEER



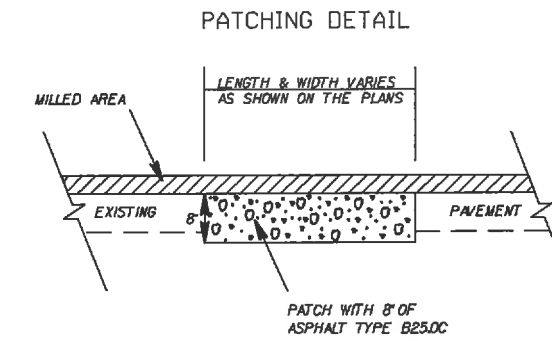
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
DUC ENGINEER

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS-43071	2	
F.A. PROJECT NO.			

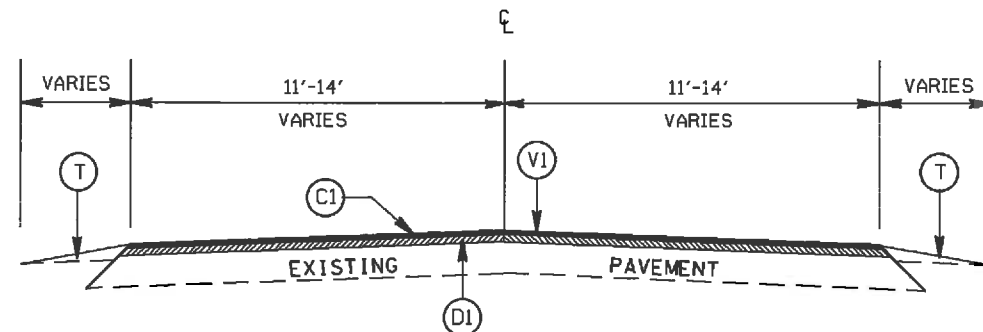


TYPICAL SECTION NO. 1  
 STA. 0+00 TO 22+16 LB/12+20 LA -L-  
 STA. 30+84 LA/20+88 LB TO 72+44 -L-

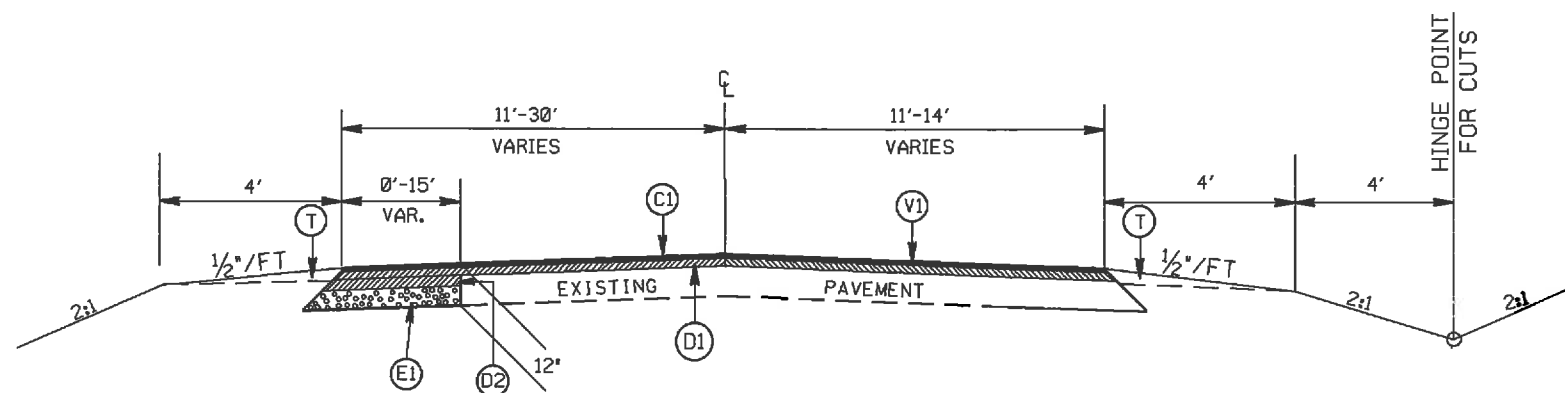


PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. APPROX. 3" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(R1)	PROP. 2'-6" CURB & GUTTER
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH



TYPICAL SECTION NO. 2  
 STA. 12+20 TO 12+95 -L-  
 STA. 20+13 TO 20+88 -L-



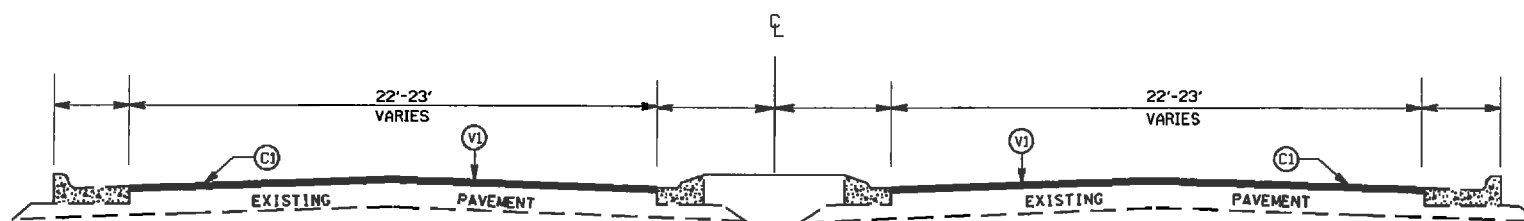
TYPICAL SECTION NO. 3  
 STA. 12+95 TO 20+13 -L-

STA. 12+20 TO 12+95 -L- MILL FROM 2.5" TO 1.5"  
 STA. 20+13 TO 20+88 -L- MILL FROM 1.5" TO 2.5"

INTERSECTION OF INTERNATIONAL DR.  
 (SR-1429) AND ENTERPRISE DR.

SCALE	1"=50'		REVISIONS
DATE	5-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

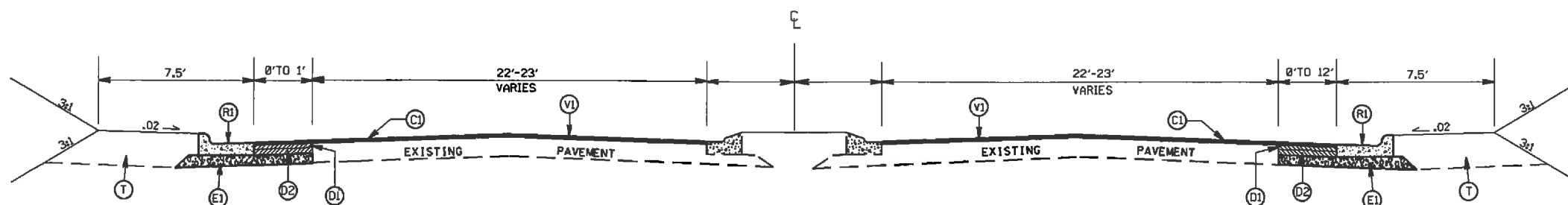
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS-4307I	2A	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 4  
STA. 10+90.03 TO 11+15 -Y-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. APPROX. 3" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
(R1)	PROP. 2'-6" CURB & GUTTER
(T)	EARTH MATERIAL
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH



TYPICAL SECTION NO. 5  
STA. 10+30.33 TO 10+90.03 -Y-

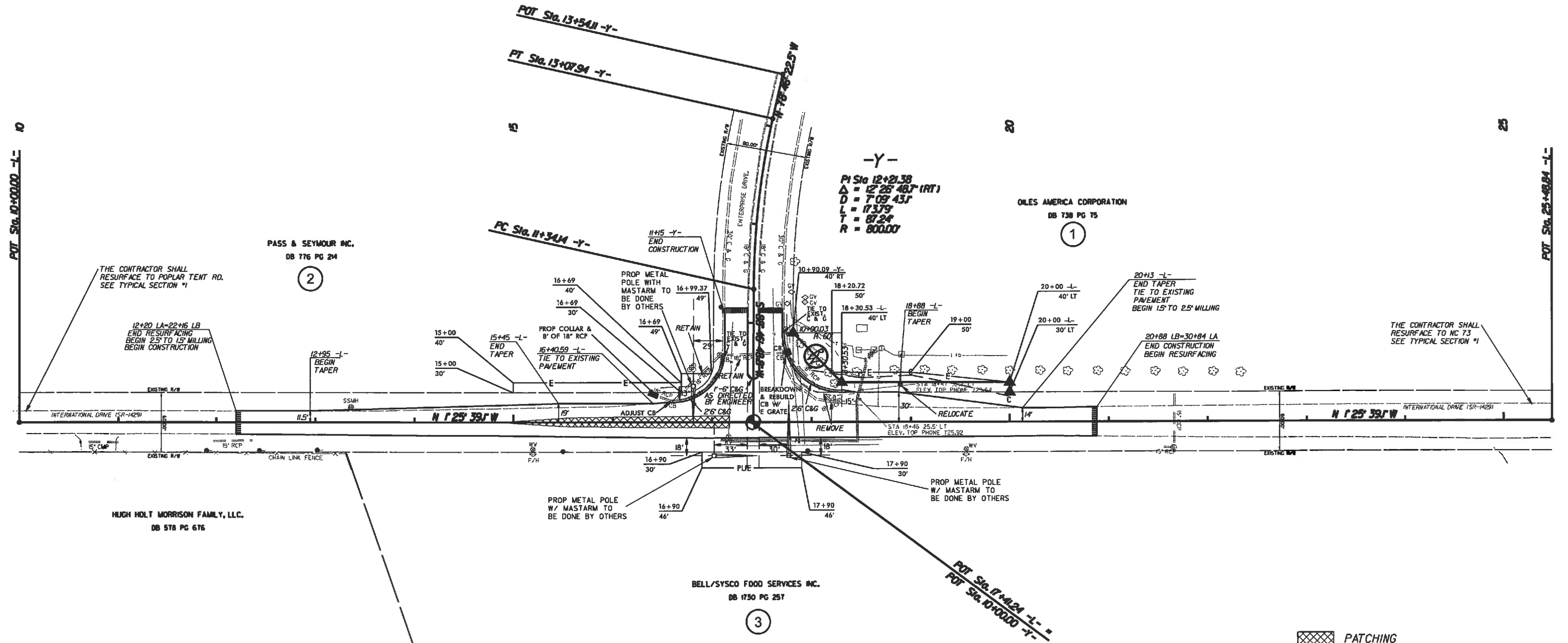
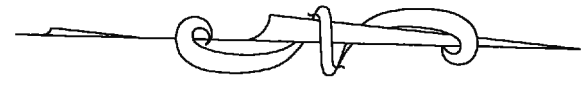
INTERSECTION OF INTERNATIONAL DR.  
(SR-1429) AND ENTERPRISE DR.

SCALE	1"=50'
DATE	5-11
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB



REVISIONS


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS-43071	3	
F.A. PROJECT NO.			



PATCHING

PARCEL NO.	PARCEL OWNER	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING	TEMP. CONST. EASE.	PERM. UTILITY EASE.
1	OILES AMERICA CORPORATION	24.26 AC	0.07 AC	24.19 AC	1,244 SF.	N/A
2	PASS & SEYMOUR INC.	N/A	N/A	N/A	1,690 SF.	431 SF.
3	BELL/SYSCO FOOD SERVICES INC.	N/A	N/A	N/A	N/A	1,600 SF.

INTERSECTION OF INTERNATIONAL DR.  
(SR-1429) AND ENTERPRISE DR.

SCALE	1"=50'		REVISIONS
DATE	5-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS-43071	PMP-1	
F.A. PROJECT NO.			

PAVEMENT MARKING SCHEDULE

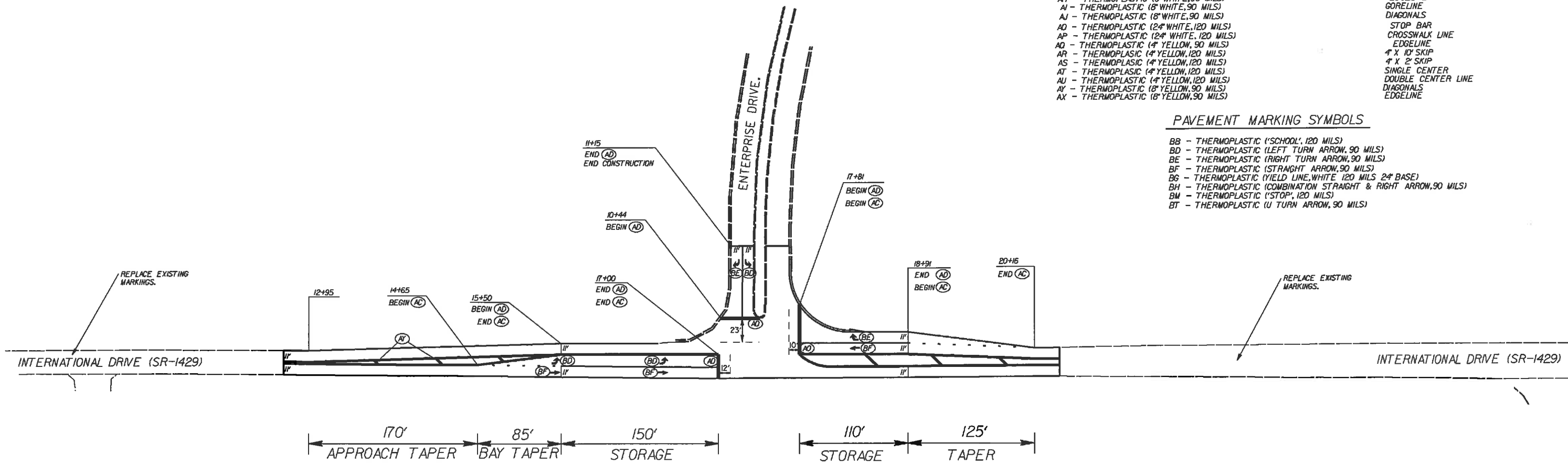
PAY ITEM	DESCRIPTION
----------	-------------

PAVEMENT MARKING LINES

AA - THERMOPLASTIC (4" WHITE, 90 MILS)	EDGE LINE
AB - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 10' SKIP
AC - THERMOPLASTIC (4" WHITE, 120 MILS)	4" X 2' WHISKIP
AD - THERMOPLASTIC (4" WHITE, 120 MILS)	SOLID LANE LINE
AH - THERMOPLASTIC (8" WHITE, 90 MILS)	EDGE LINE
AI - THERMOPLASTIC (8" WHITE, 90 MILS)	GORE LINE
AJ - THERMOPLASTIC (8" WHITE, 90 MILS)	DIAGONALS
AO - THERMOPLASTIC (2" WHITE, 120 MILS)	STOP BAR
AP - THERMOPLASTIC (2" WHITE, 120 MILS)	CROSSWALK LINE
AQ - THERMOPLASTIC (4" YELLOW, 90 MILS)	EDGE LINE
AR - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 10' SKIP
AS - THERMOPLASTIC (4" YELLOW, 120 MILS)	4" X 2' SKIP
AT - THERMOPLASTIC (4" YELLOW, 120 MILS)	SINGLE CENTER LINE
AU - THERMOPLASTIC (4" YELLOW, 120 MILS)	DOUBLE CENTER LINE
AV - THERMOPLASTIC (8" YELLOW, 90 MILS)	DIAGONALS
AX - THERMOPLASTIC (8" YELLOW, 90 MILS)	EDGE LINE


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)
BG - THERMOPLASTIC (YIELD LINE, WHITE 120 MILS 2" BASE)
BH - THERMOPLASTIC (COMBINATION STRAIGHT & RIGHT ARROW, 90 MILS)
BM - THERMOPLASTIC ('STOP', 120 MILS)
BT - THERMOPLASTIC (U TURN ARROW, 90 MILS)



NOTE: THE CONTRACTOR SHALL DOCUMENT THE EXISTING PAVEMENT MARKINGS PRIOR TO RESURFACING SO THAT THEY CAN BE REESTABLISHED IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE NOTED IN THE PLANS.

INTERSECTION OF INTERNATIONAL DR.  
(SR-1429) AND ENTERPRISE DR.

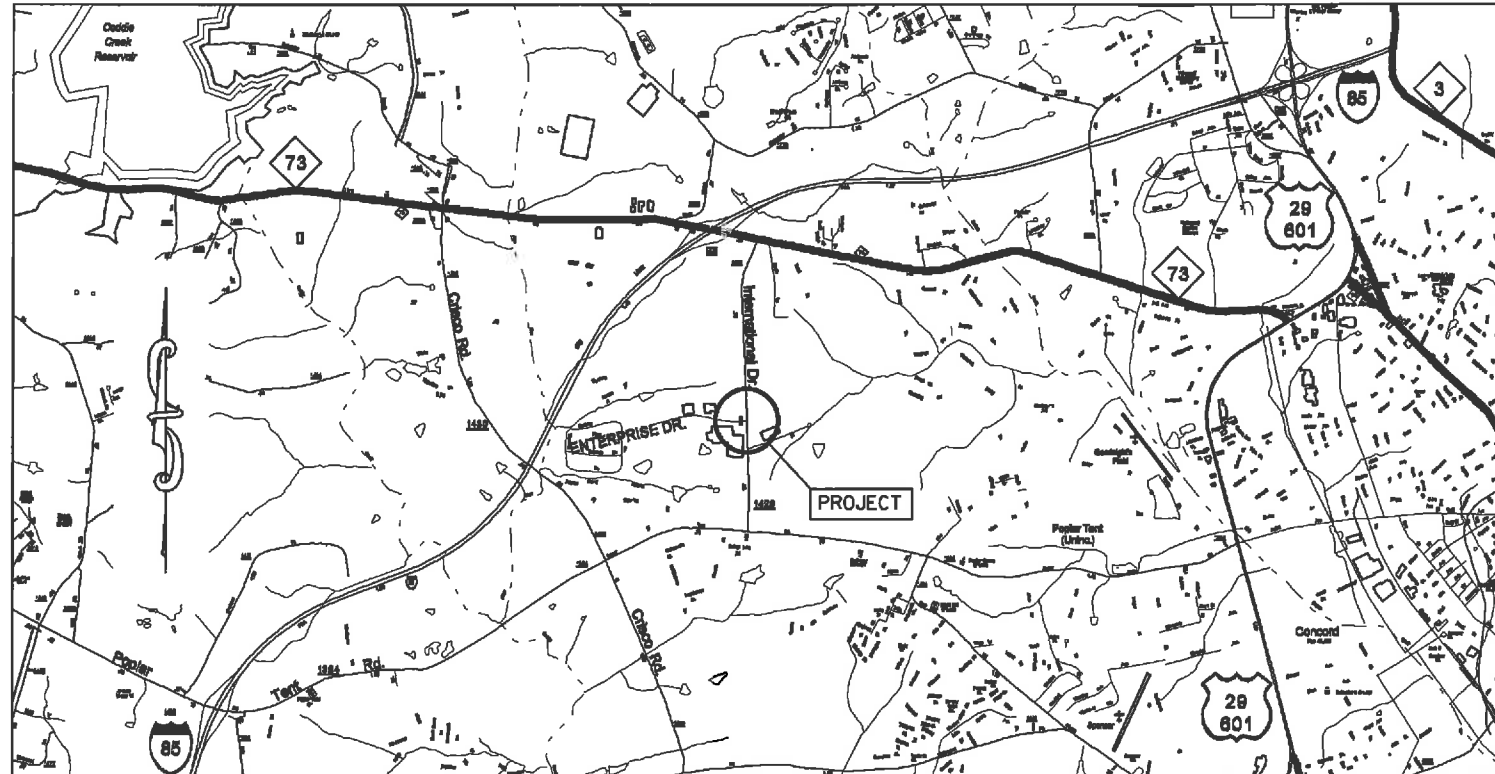
SCALE	1"=50'		REVISIONS
DATE	5-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL  
**CABARRUS COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	43071	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	--->
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△△△
1622.01	Temporary Berms and Slope Drains	T
1630.02	Silt Basin Type B	▧
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▶
	Wattle / Coir Fiber Wattle	~
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	⊙
1634.01	Temporary Rock Sediment Dam Type-A	▤
1634.02	Temporary Rock Sediment Dam Type-B	⊎
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊕
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊖
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	⊠
	Rock Inlet Sediment Trap:	
1632.01	Type A	⊠ A
1632.02	Type B	⊠ B
1632.03	Type C	⊠ C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭



**THIS PROJECT CONTAINS  
EROSION CONTROL PLANS  
FOR CLEARING AND  
GRUBBING PHASE OF  
CONSTRUCTION.**

**PROJECT: 43071**

**GRAPHIC SCALE**



PLANS

ROADSIDE ENVIRONMENTAL UNIT  
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:  
**DDC UNIT DIVISION 10**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**2012 STANDARD SPECIFICATIONS**

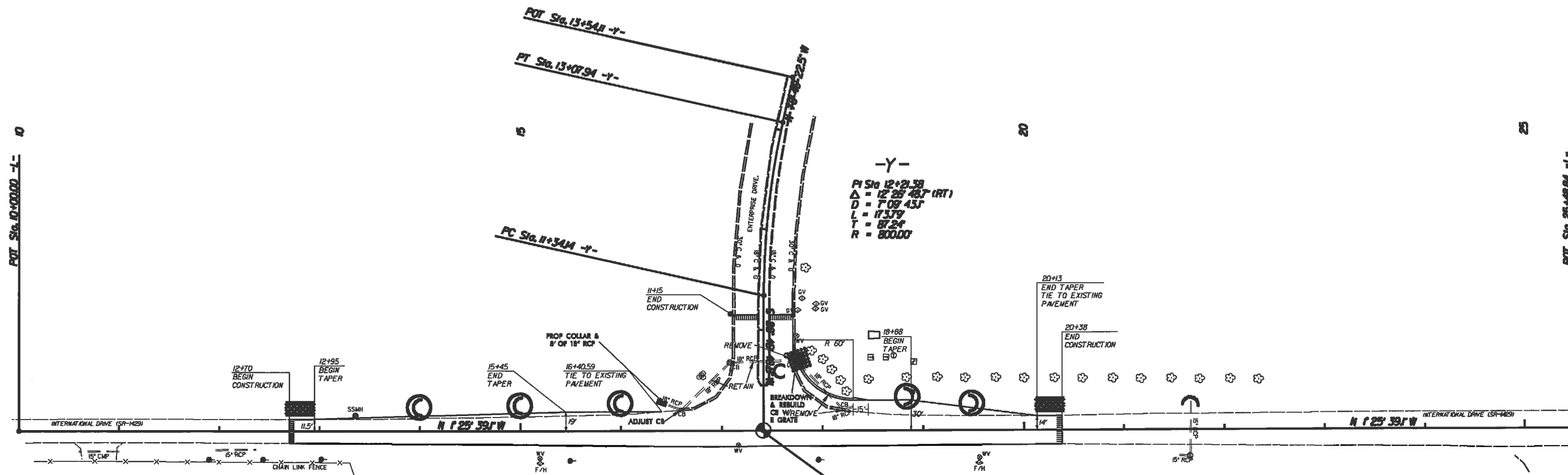
TERRY W. BURLISON 3011  
EROSION CONTROL SPECIALIST LICENSED PROFESSIONAL ENGINEER

**Roadway Standard Drawings**

The following roadway English standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Silt Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1681.01 Matting Installation	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS-43071	EC-2	
F.A. PROJECT NO.			



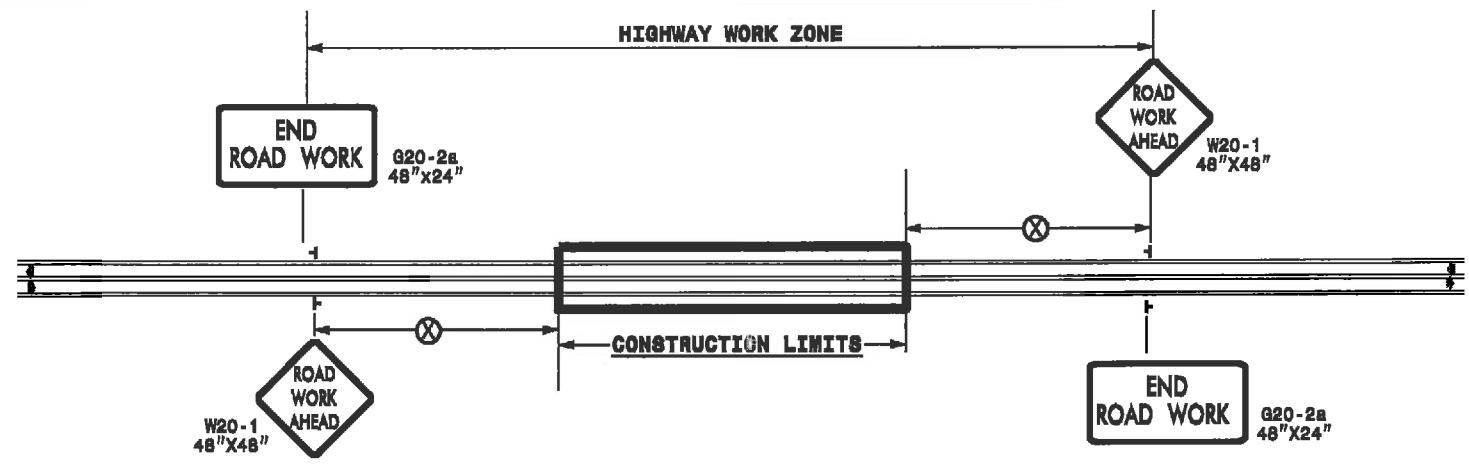
-Y-  
 PI Sta 12+21.38  
 Δ = 12° 26' 48.7 (RT)  
 D = 708' 43.5"  
 L = 173.79'  
 T = 87.24'  
 R = 8000'

NOTE: ADDITIONAL WATTLES SHALL BE INSTALLED AT EACH CROSSLINE PIPE THROUGHOUT THE RESURFACING AREAS.

INTERSECTION OF INTERNATIONAL DR.  
(SR-1429) AND ENTERPRISE DR.

SCALE	1"=50'		REVISIONS
DATE	5-11		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

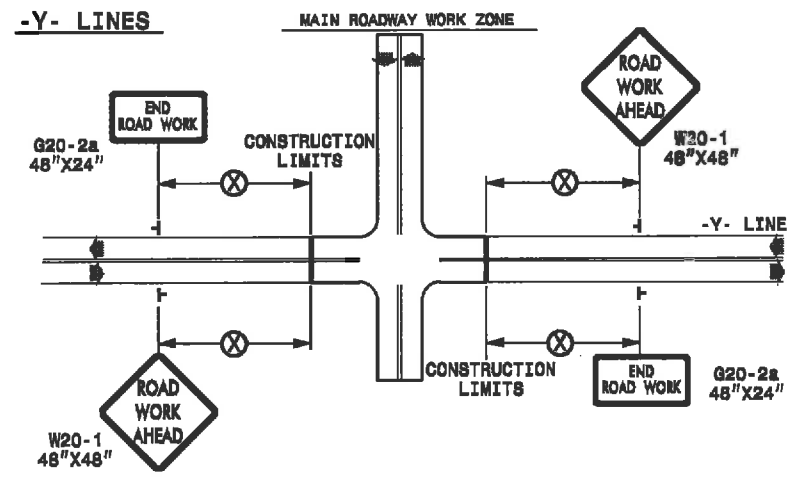
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 80	500'
≥ 55	1000'

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

**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 1084-1(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

DETAIL DRAWING FOR  
TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
SEAL	SCALE: NONE	REVISIONS	
	DATE: _____	7-98	10/01
	DWG. BY: _____	10-98	03/04
	DESIGN BY: _____	01/01	11/04
REVIEWED BY: _____			

10-MAY-2001 09:06 S:\DTC\ADY\Cooper\us\_Enterprise\tcp\2way\_undiv.&.urban\_fr.wys.dgn J:\HWWARD AT DDD\CAD255794