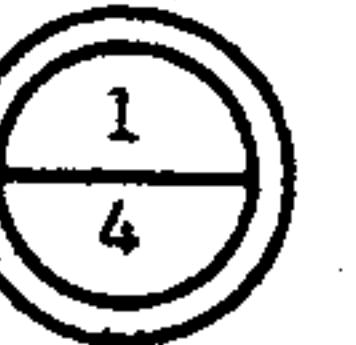


POR 7A-591

# OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

173(77)



PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINII		NET LENGTH MILES	TOWNSHIP	CITY	VILLAGE
				BEGIN	END				
1	POR	US 224	(12.99)	12.99	13.52	0.53	Atwater		
2	POR	225	(0.00-1.63) (5.24-9.71)	0.00	10.26	7.56	Deerfield Palmyra Atwater		

LETTING 3/8/77  
Comp 8/31/77

PLAN NO. 91

THOMAS ASPHALT #248,326

The Standard 19 77 Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these improvements.

I hereby approve these plans and declare that the making of these improvements will require the closing of the highways to traffic on Parts No. \_\_\_\_\_ and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts No. 1 & 2 and provisions for the maintenance and safety of traffic will be as indicated in the proposal.

Approved  
Date 11-23-76

*William M. Goldman*  
District Deputy Director of Transportation

Approved  
Date 11-30-76

*Robert B Pfeiffer*  
Engineer of Bridges

Approved  
Date 1-19-77

*R. L. Fink*  
Engineer of Maintenance

Approved  
Date 1-20-77

*Dennis R. Plasmore*  
Chief Engineer, Operations

Approved  
Date 1-20-77

*Howard S. Nolan*  
Assistant Deputy Director, Program Development

Approved  
Date 1-20-77

Chief Engineer, Construction

Approved  
Date 1-20-77

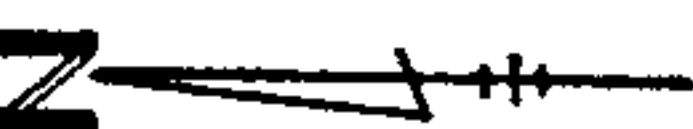
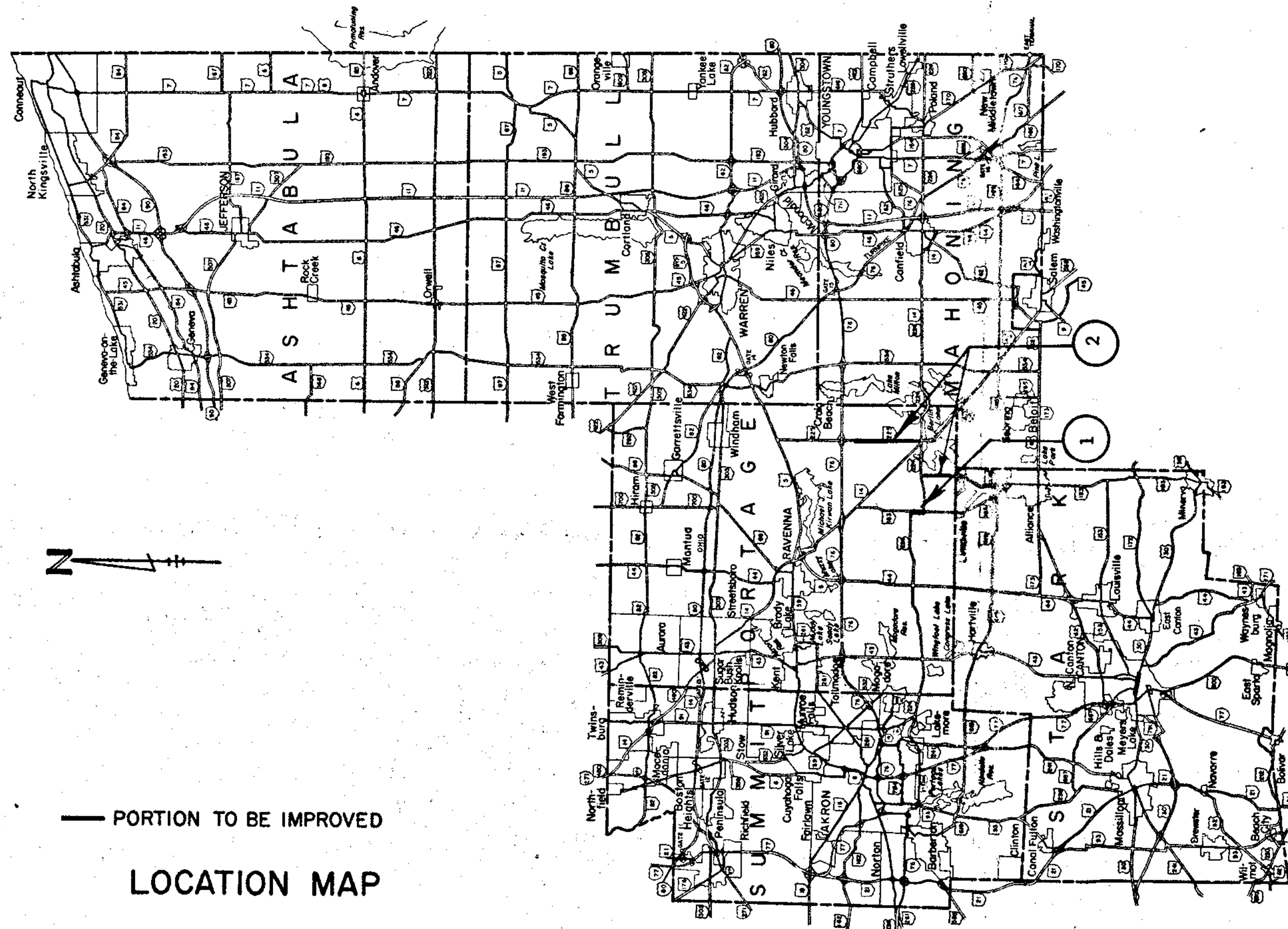
*R. E. Ballin*  
Chief Engineer, Design

Approved  
Date 1-20-77

*David A. McLean*  
Assistant Director, Department of Transportation

Approved  
Date 1/20/77

*Richard D. Jackson*  
Director, Department of Transportation



— PORTION TO BE IMPROVED

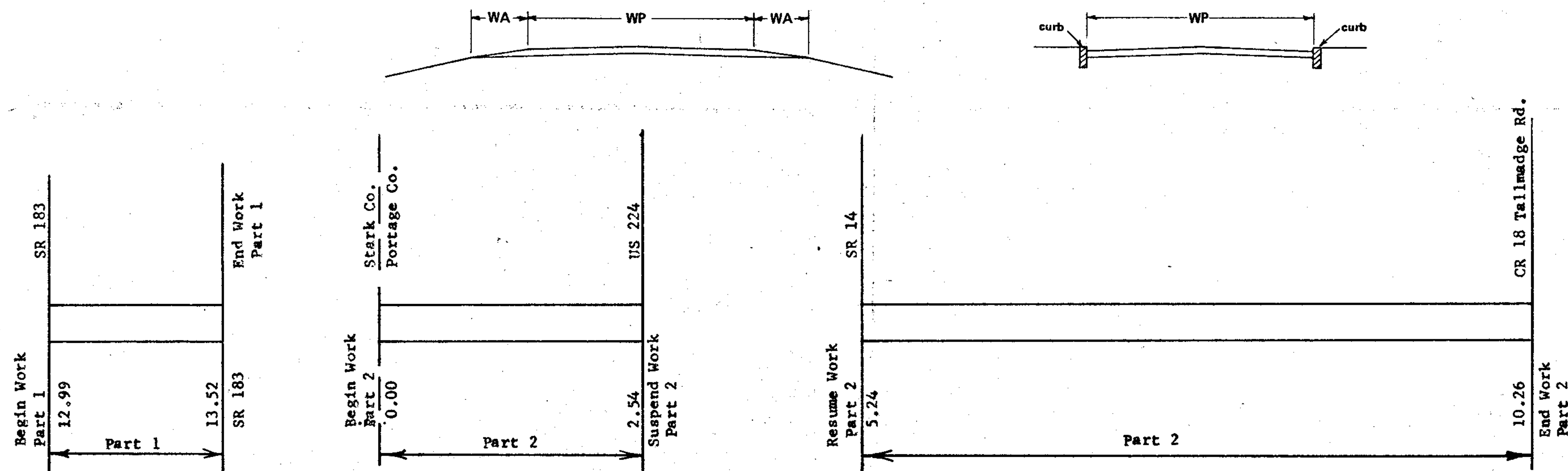
LOCATION MAP

STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BP-5	8/11/75		

BN

TYPICAL I

**TYPICAL 2**



No Scale

### PAVEMENT DATA

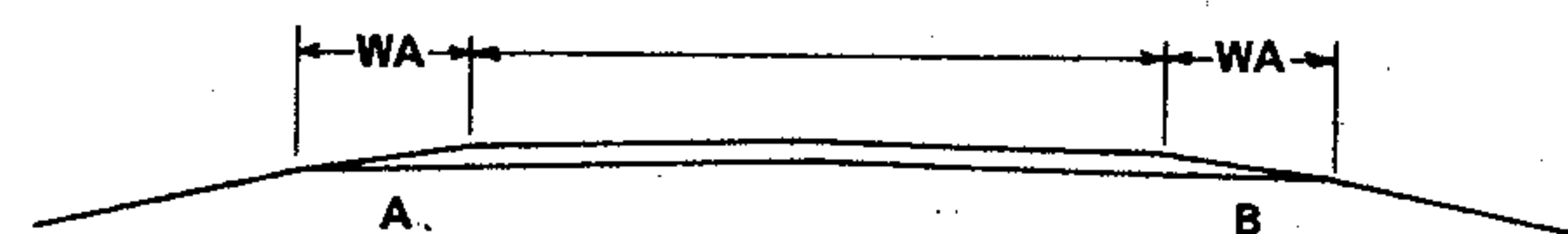
\*\* 404 using 402 composition

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT								604 Monument Box Adjusted to Grade Each	202 Wearing Course Removed Sq. Yd.	202 Pavement removed Sq. Yds.	605 Aggregate Drains Lin. Ft.	301 Bituminous Aggregate Base 6"± thick Cu. Yds.
			MILES	LIN. FT.					407		ASPHALT CONCRETE										
									TACK COAT @ .075 gal./s.y. GALS.	COVER AGGR. @ 7 lbs./s.y. TONS	ITEM 404**		ITEM		ITEM						
											THICK INCHES	CU. YDS.	THICK INCHES	CU. YDS.	THICK INCHES	CU. YDS.					
1	US 224	12.99-13.52	0.53	2798	24	1	404	7462	560	26	1.25	259									
	*Extra material @ 50 CY/Mi. X 0.53 mile											27									
	Extra areas for widenings & intersections							917	69	3		32									
	Total Part 1		0.53	2798				8379	629	29		318					2	25			
2	SR 225	0.00-2.54	2.54	13411	24	1	404	35763	2682	125	1.25	1242									
	SR 225	5.24-10.26	5.02	26506	20	1	404	58901	4418	206	2.00	3273									
	*Extra material @ 50 CY/Mi. X 7.56 mile											378									
	Total Part 2		7.56	39917				94664	7100	331		4893						500	150	83	
</																					

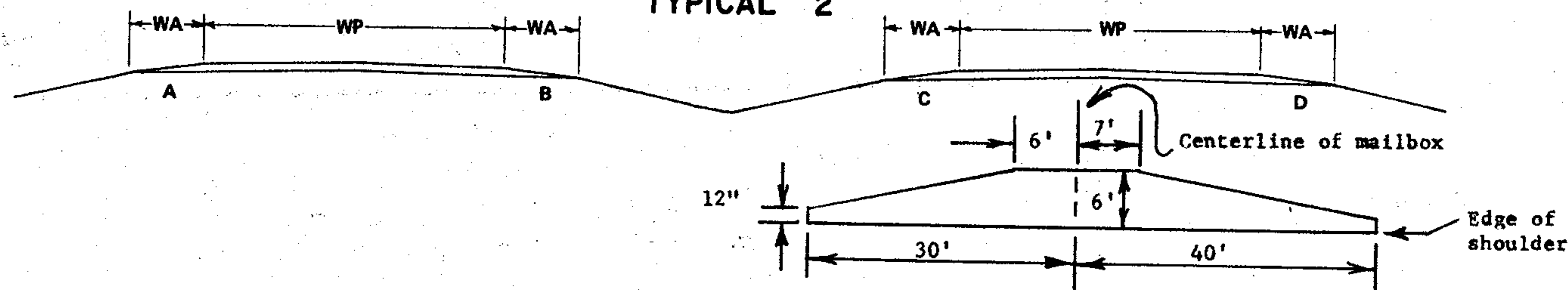


## SHOULDER TREATMENT

## TYPICAL



## TYPICAL 2



\*\* 404 for shoulders may be placed in the same operation as adjacent pavement overlay. All mailbox approaches, aggregate or improved, must be paved as per typical show above or as near as practicable. Pavement at all driveways must be feathered to provide a smooth transition. No drop-off greater than one inch (1") at outer edge of paved shoulder shall be accepted. All work including layout of mailbox approach and any 617 material necessary to meet the 1" tolerance stated above shall be included in the cost of Item 404.

404 using 402 composition

## \*NOTES

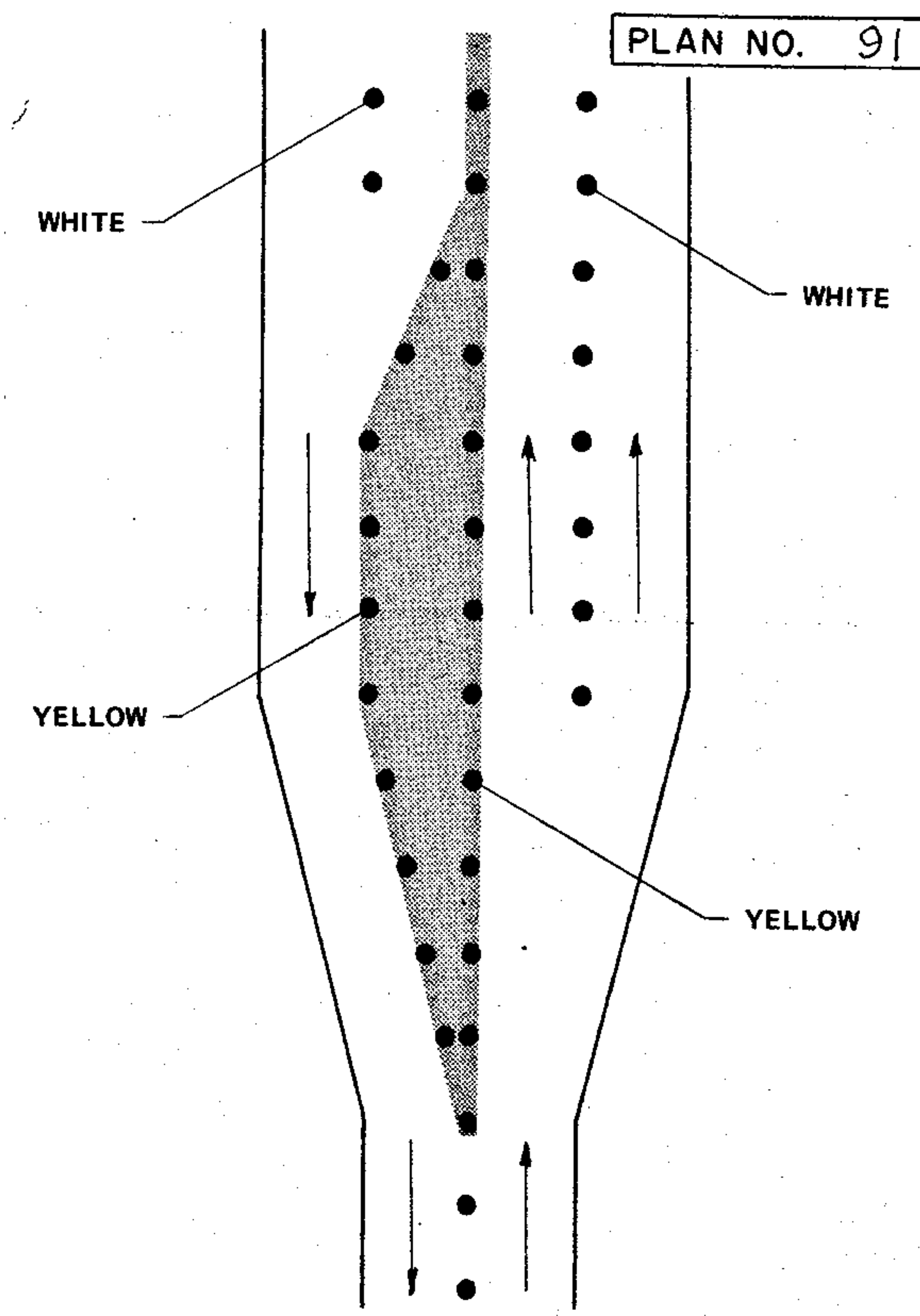
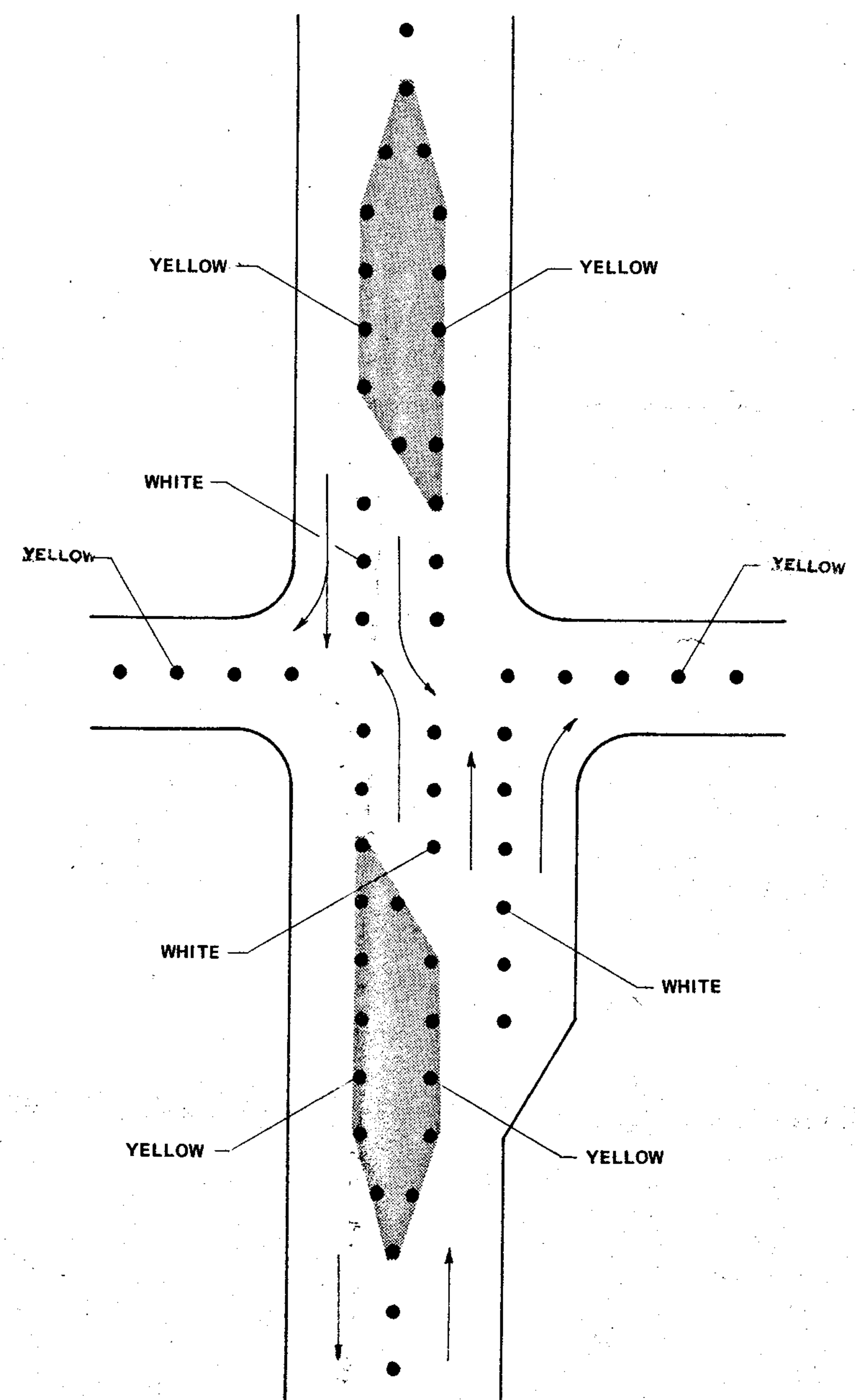
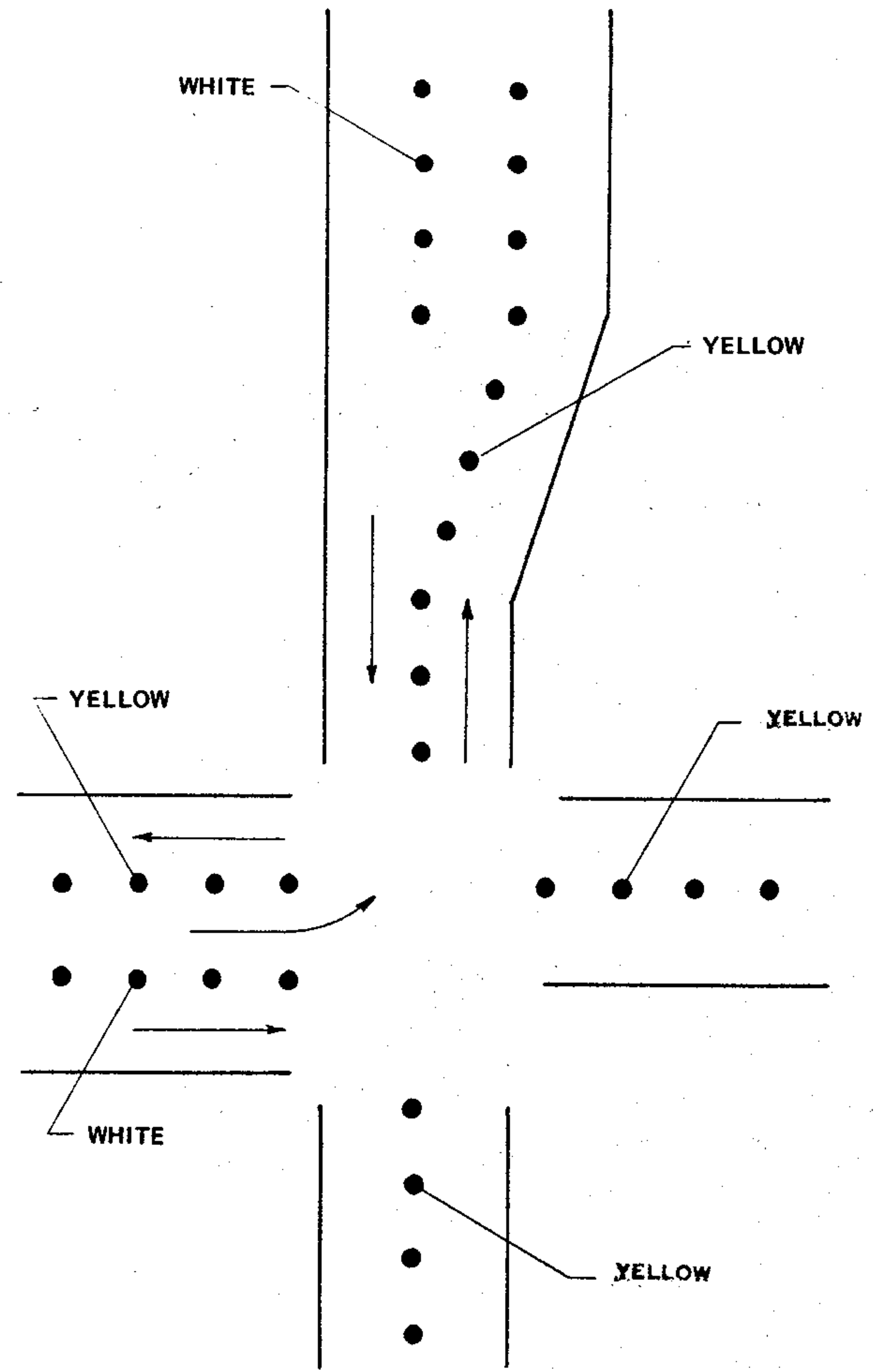
1. SEAL COAT: After completion of the mix the Seal Coat shall be applied when directed by the Engineer.
2. PENETRATION CHOKES: Choke to be applied in two applications; approximately 0.004 cu. yd./sq. yd. shall be applied immediately on the mix after initial rolling. Not earlier than two days nor later than five days following the final rolling the penetration coat and final choke application shall be performed in accordance with the provisions of 409.07 and 409.08.
3. MIX BITUMINOUS MATERIAL: Include 0.20 gal./sq. yd. to be applied as a penetration.
4. PRIME COAT: A minimum of 0 hours shall elapse after completion of Prime Coat before any subsequent treatment.
5. MIX: Mix to be completed on shoulders within \_\_\_\_\_ days following completion of the adjacent pavement.
6. SHIELD: The contractor shall provide a shield to prevent the spraying or drifting of liquid bituminous material onto the edge of the pavement or edgelines. The attention of the contractor is directed to 107.12 of the Specifications.
7. APPLICATION RATE: The rate of application for mix bituminous material shall be \_\_\_\_\_ gal. per sq. yd. for slag or \_\_\_\_\_ gal. per sq. yd. for gravel or stone.
8. CENTRAL MIXING: When central mixing is used, the mix material shall be reduced 0.20 - 0.25 gal./sq. yd. to prevent in-transit drainage and applied as a penetration.

PLAN NO.

1

## SHOULDER DATA

[illegible]



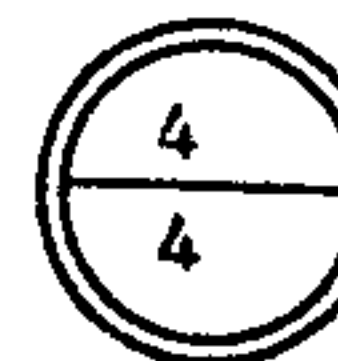
GENERAL NOTES

1. Lines of relatively short length such as intersection channelizing, or transition lines shall have a minimum of three (3) plastic dots.
2. Spotting of the surface course shall be either by embedding plastic dots into the surface on the final rolling operation or applying lane tape to the completed surface. Lane marking tape shall be used on leveling courses.

These sketches do not represent intersections, but only typical pavement marking configurations which may be encountered. The yellow and white plastic marking shall be placed where the corresponding paint colors would normally be required in accordance with the Uniform Traffic Manual.

BUREAU OF TRAFFIC CONTROL OHIO DEPARTMENT OF TRANSPORTATION	
TEMPORARY PAVEMENT MARKING FOR TWO LANE HIGHWAYS	
APPROVED _____	DATE _____
ENGINEER OF TRAFFIC	
DR. 888 CK.	





## GENERAL SUMMARY

ITEM	Part 1	Part 2	GRAND TOTAL Parts 1 & 2	UNIT	DESCRIPTION
407	629	7100	7729	Gals.	Tack Coat, SS-1, SS-1H, MS-2, RS-1 or RC-250
407	29	331	360	Tons	Cover Aggregate
403				Cu. Yds.	Asphalt Concrete AC-20
404	409	6279	6688	Cu. Yds.	Asphalt Concrete AC-20 Using 402 composition
604	2		2	Each	Monument box adjusted to grade
202	25		25	Sq. Yd.	Wearing course removed
202		500	500	Sq. Yd.	Full Depth Pavement removed. Replaced with
605		150	150	Lin. Ft.	Aggregate drains
408	933	10360	11293	Gals.	Bituminous prime coat (RT 2 or 3), (MC 30 or 70), or primer 20 for shoulders
409	653	7252	7905	Gals.	Seal coat bituminous material; RS-2, CRS-2, CBAE-800, (MC 800 or 3000) or (RT 9 or 10) for shoulders
409	15	166	181	Cu. Yd.	Seal coat cover aggregate #8 for shoulders
301		83	83	Cu. Yd.	Bituminous aggregate base, AC-20 or (RT-11 or RT-12)
617	1866	20721	22587	Sq. Yds.	Shoulder Preparation, as per plan
617				Cu. Yds.	Compacted Aggregate
614	Lump	Lump	Lump	Lump	Maintaining Traffic

## GENERAL NOTES

Item 202: Full Depth Pavement removed. Replaced with  
Item estimated only and to be placed where and as directed by the  
engineer. Patches shall be complete and open to traffic at the end  
of each day's operation.

## TRAFFIC:

Traffic shall be maintained at all times. The  
length of restricted traffic zones shall be kept to a  
minimum consistent with the specification  
requirements for protection of completed courses.

## RAILROAD CROSSINGS:

The new surface course shall be feathered or  
butt jointed to meet the rail grades as specified.

INTERMEDIATE COURSE AND/OR SPOT  
LEVELING OR PATCHING:

This material shall be placed in a separate  
operation where and as directed by the engineer.

## ALIGNMENT AND PROFILE:

The work proposed by this project is for the  
resurfacing of the existing pavement. The alignment  
of the existing pavement will not be changed, and the  
profile of the proposed surface will be similar to that  
of the existing pavement except that it will be raised  
an amount equal to the thickness of the resurfacing  
course or courses specified in these plans.

## TACK COAT:

The tack coat operation shall be as determined  
at a pre-construction conference as per 407.05, and  
application rates shall not exceed 0.10 gal. per sq. yd.

ITEM 409: All mailbox approaches shall be sealed in their entirety  
and the shoulder seal shall be continuous with omissions only at  
intersecting roads.

## ITEM 617: Shoulder Preparation, as per plan

A dropped blade grader or other suitable equipment shall be used to  
grade out berm area to a depth of 1½" (±), or to a depth necessary to  
remove all organic material. Excessively graded areas shall be back-  
filled to desired grade using 617 compacted aggregate. All excess  
material shall be used to back up shoulder where needed or disposed of  
in conformance with Item 202 at the contractor's expense. Cost of  
this operation, additional aggregate, and disposal of excavated material  
shall be included in price bid for this Item 617 Shoulder Preparation,  
as per plan.

## ITEM 202 Wearing Course Removed.

Estimated quantities have been designated and are to be used where and  
as directed by the engineer.