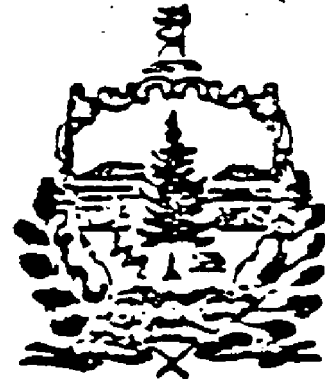


STATE OF VERMONT
 AGENCY OF TRANSPORTATION

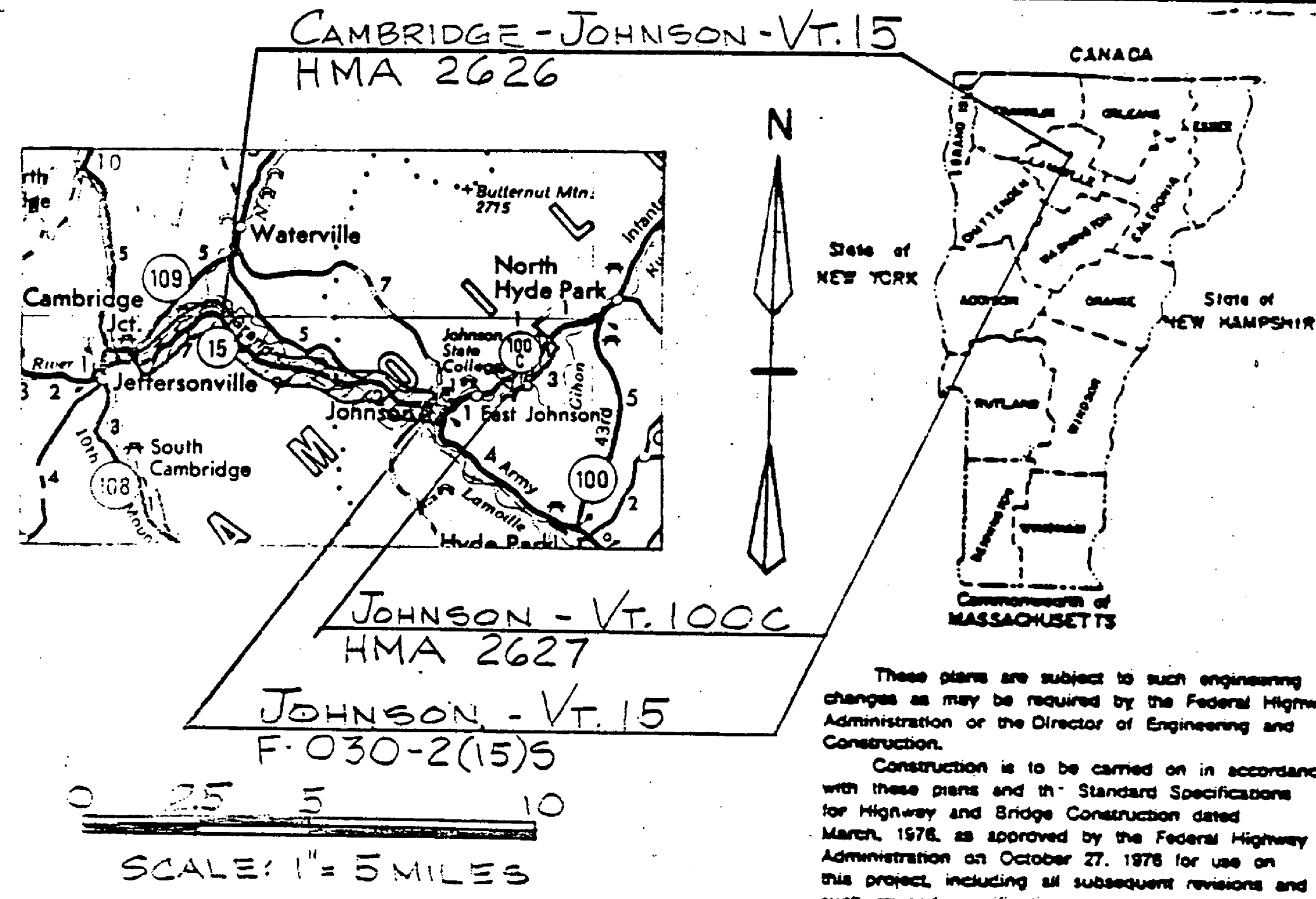
Date MAY 31 1985
 Contractor Cooley Asphalt Paving
 Signature Wilfred A. Laprade
 Title President



CONTRACT PLANS
 THESE PLANS DO NOT REFLECT
 CHANGES MADE ON THE PROJECT.

PROPOSED IMPROVEMENT
 RESURFACING PROJECT

Transportation Secretary's
 Signature Susan C. Campbell
 TOWN OF: CAMBRIDGE - JOHNSON
 COUNTY OF: LAMOILLE
 ROUTE NO: VT. RT. 15 & VT. RT. 100C
 ROUTE CLASS: FAP



PROJECT PROCESSED UNDER
 SECONDARY ROAD PLAN

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.
 Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1978, as approved by the Federal Highway Administration on October 27, 1978 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SEE SHEET 2 FOR INDEX

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED <u>Frank E. Adrich</u>	DATE <u>FEB 25 1985</u>
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED _____	DATE _____
DIVISION ADMINISTRATOR	
PROJECT NO. <u>HMA 2626, F030-2(15)S</u> <u>HMA 2627</u>	
SHEET 1 OF 31 SHEETS	

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NO. HMA 2627

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- 30 STANDARD SHEET E-45 01-10-85R
- 31 STANDARD SHEET E-50 03-16-82R

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	LENGTH		WIDTH		OPTION		ITEM QUANTITIES									
	FT.	CY	TON	CWT	TON	EA.	HR	HR	HR	HR	HR	HR	HR	HR	LS	
CAMBRIDGE JOHNSON HMA 2626	2700	4710	275	8660	1	-	70	435	435	630	630	630	630	630	635	
JOHNSON F030-2(15)S	100	175	25	950	14	5	3	50	50	50	50	50	50	50	.04	
JOHNSON HMA 2627	660	1150	50	1290	-	-	11	65	65	65	65	65	65	65	.15	
COMPOSITE TOTAL	3460	6035	350	10900	15	5	84	550	550	550	550	550	550	550	1	

CAMBRIDGE PROJECT CAMBRIDGE JOHNSON

NO. IMA 2627

HMA 2626, F030-2(15)S

SHEET 3 OF 3

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM NO	UNIT	LOCATION	ITEM DESCRIPTION	LENGTH		ITEM QUANTITIES									
				FT	FT	646.17	646.30	646.35	646.36	646.63	646.67	653.10	675.20	675.35	
				LF	EA	LF	LF	LF	LF	LF	EA	CY	5F	LB	
				-	2	81600	126000	-	2	190	14.2	70			
				84	-	3700	6200	84	-	20	-	-			
				-	-	15000	29400	-	-	40	-	-			
				84	2	100300	161600	84	2	250	14.2	70			
				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

ITEM DESCRIPTION: CAMBRIDGE - JOHNSON HMA 2626

ITEM DESCRIPTION: JOHNSON F030-2(15)S

ITEM DESCRIPTION: JOHNSON HMA 2627

ITEM DESCRIPTION: COMPOSITE TOTAL

HMA 2626, F030-2(15)S

NO. HMA 2627

SHEET 3A OF

COMPOSITE PROJECT

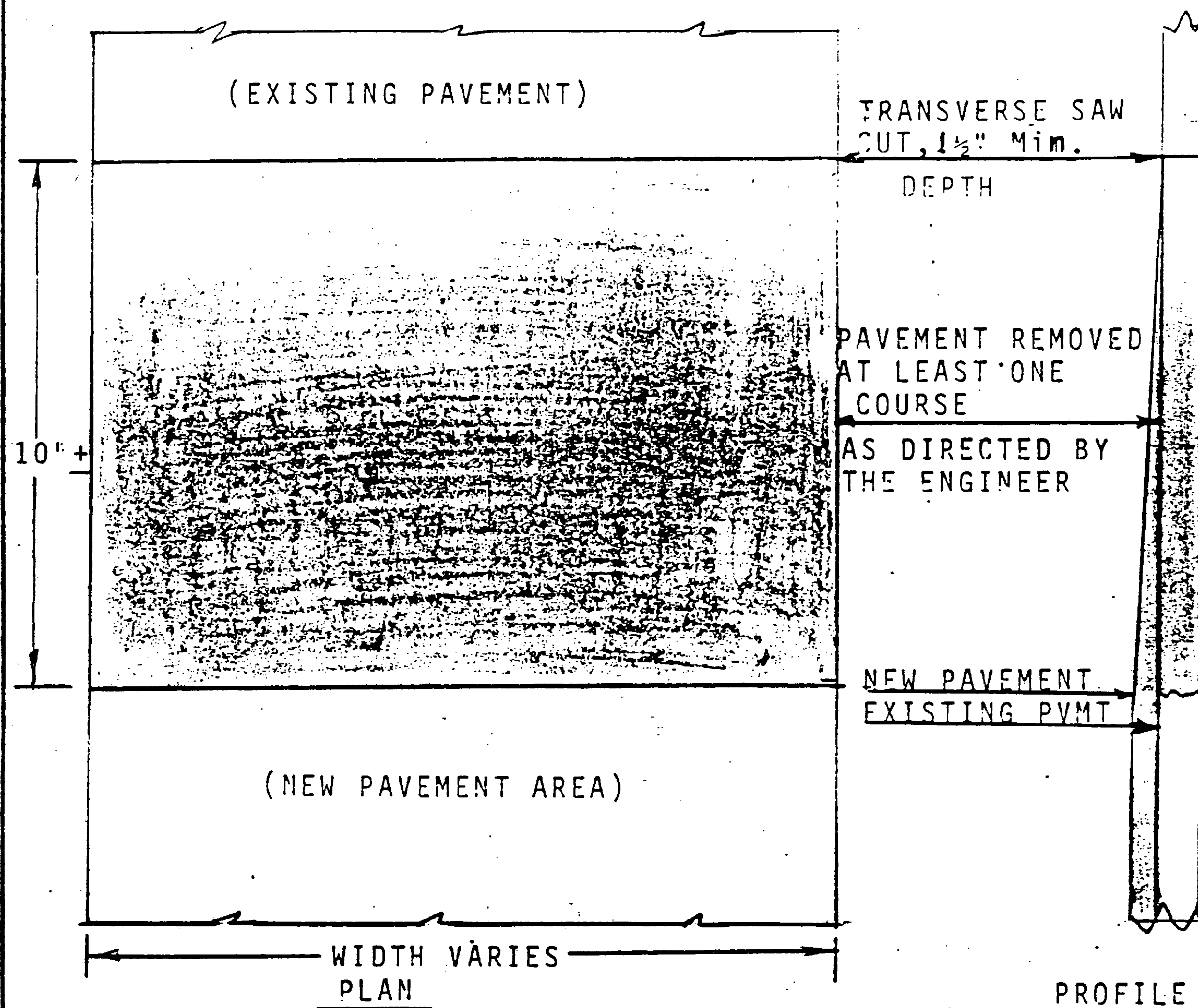
PROJECT LENGTHS AND ITEM QUANTITIES

ITEM NO	UNIT	LOCATION	ITEM DESCRIPTION	LENGTH		WIDTH		UNCLASSIFIED EXCAVATION		CONCRETE CLASS B		CAST-IN-PLACE CEMENT CONCRETE CLASS TYPE B	
				FT	FT	CY	CY	CY	CY	LF	LF		
			CAMBRIDGE - JOHNSON HMA 2626	-	-	-	-	-	-	-	-	-	-
			JOHNSON F030-2(15)S	90	100	1	1	460					
			JOHNSON HMA 2627	-	-	-	-	-	-	-	-	-	-
			COMPOSITE TOTAL	90	100	1	1	460					

COMPOSITE PROJECT CAMBRIDGE - JOHNSON NO. HMA 2626, F030-2(15)S SHEET 3B OF 11

NO. HMA 2627

PAVEMENT TERMINUS



PAVEMENT MAY BE LAID, WITH APPROVAL OF THE ENGINEER, IN ONE COURSE
 TERMINUS WILL BE FLUSH WITH EXISTING PAVEMENT AND WILL BE CROSS
 ROLLED.

THIS ITEM WILL BE SUBSIDIARY TO ITEM 406.25, BITUMINOUS CONCRETE
 PAVEMENT.

NOT TO SCALE

PROJECT CAMBRIDGE-JOHNSON

NO. HMA 2626, FO30-2(15)S
HMA 2627

SHEET 4 OF 31 SHEETS

- A. CENTERLINE AND GORE AREA MARKINGS SHALL BE APPLIED AT THE END OF EACH WORKING DAY. THE FOLLOWING LAYOUT REQUIREMENTS SHALL BE MET:

NO PASSING BARRIER

SOLID STRIPES.

DASHED LINE

10-FOOT SOLID LINE WITH 30-FOOT GAP.

SOLID LINE - (GORE AREAS TO INCLUDE CHANNELIZING LINE AND DASHED LINE)

PER STANDARD SHEET E-50.

EDGE LINES

WHEN SPECIFIED, EDGE LINES ARE NOT REQUIRED UNTIL COMPLETION OF THE PROJECT. ON INTERSTATE PROJECTS, TEMPORARY EDGE LINES SHOULD BE APPLIED WHERE TRAFFIC VOLUMES AND SPEEDS ARE HIGH AND DELAY OF SEVERAL DAYS IS ANTICIPATED.

- B. TEMPORARY MARKINGS MAY CONSIST OF PAINT, TAPE OR RAISED PAVEMENT MARKERS (RPM'S). THE TAPE SHALL BE A RETRO-REFLECTIVE FILM ON A CONFORMABLE METALLIC BACKING THAT CAN BE PAVED OVER. TAPE MAY BE USED ON THE FINAL SURFACE COURSE IF IT WILL NOT INTERFERE WITH THE FINAL MARKING APPLICATION. THE RPM'S SHALL HAVE A SELF-ADHESIVE BACKING EASILY REMOVED BEFORE PAVING AND SHALL CONFORM TO THE FOLLOWING LAYOUT PATTERN: TEMPORARY TAPE MARKINGS WILL BE OFFSET AND REMOVED WHEN PROJECT IS FINISHED AND FINAL CENTERLINE PAINTED. THE TAPE SHALL BE THE TYPE THAT IS REMOVABLE INTACT AND NOT SEPERATE AT ANY TIME.

NO PASSING BARRIER

NO RPM'S ALLOWED.

DASHED LINE

FOUR RETRO-REFLECTIVE RPM'S ON 3 1/2 FOOT CENTERS WITH A 30 FOOT GAP.

SOLID LINE - EDGE LINES

INTERSTATE MEDIAN SIDE-RETRO-REFLECTIVE RPM'S ON 4 TO 5 FOOT CENTER. DRIVERS RIGHT SIDE-RPM'S NOT ALLOWED.

- C. WHEN PAINT IS USED FOR TEMPORARY MARKING, AN ALTERNATE MATERIAL SUCH AS TAPE OR RPM'S SHALL BE ON HAND IN THE EVENT RAIN PREVENTS THE PAINT APPLICATION FROM BEING COMPLETED. ALL PAINT SHALL BE REFLECTORIZED.
- D. PAYMENT FOR PAINT AND TAPE SHALL BE COMPUTED ON A LINEAR FOOT BASIS AS IF PAINT WAS USED. PAYMENT FOR THE RPM'S SHALL BE COMPUTED AS IF AN EQUIVALENT PAINT LINE WAS USED. (FOR EXAMPLE, DASHED LINE PAID AS 10 FEET OF PAINT, SOLID LINE PAID AS THE TOTAL DISTANCE COVERED WITH THE MARKERS).
- E. PRIOR TO ACCEPTANCE, THE PAVEMENT MARKINGS SHALL BE COMPLETED FOR THE ENTIRE PROJECT BY THE CONTRACTOR AS DETAILED ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

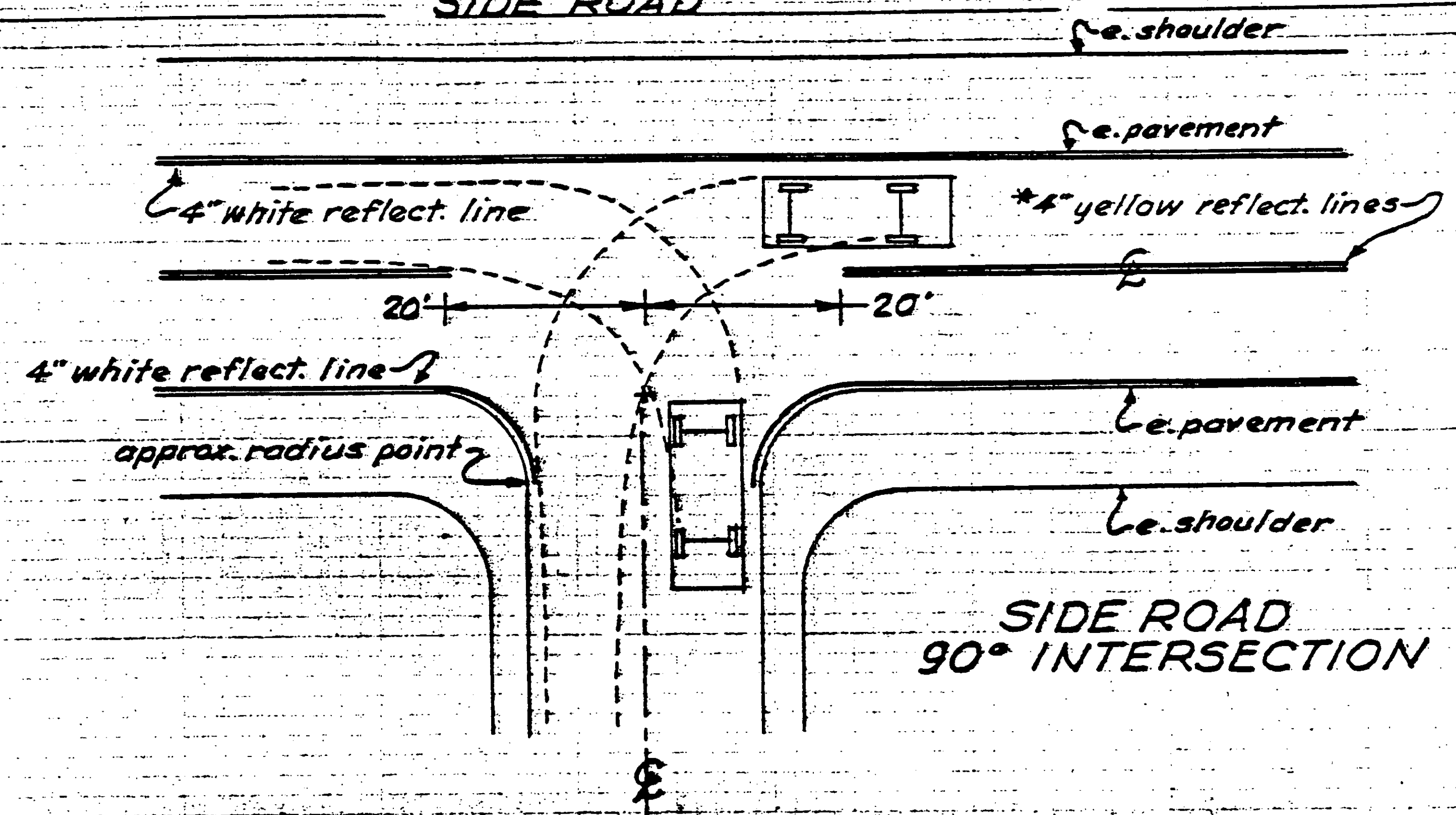
HMA 2626, FC30-2(5)S REVISED

HMA 2627

01/12/85

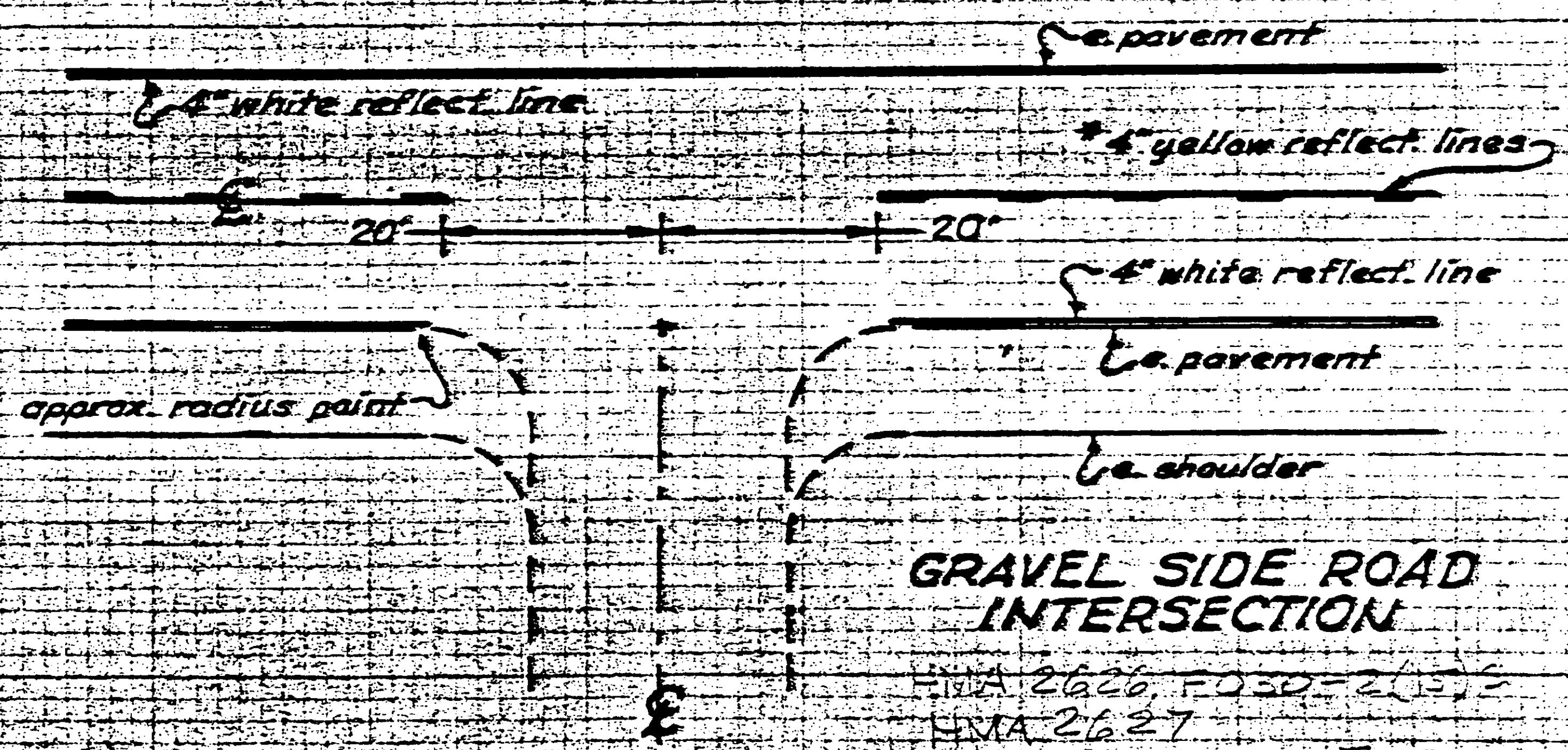
CAMBRIDGE-JOHNSON SHEET 5 OF 31

SIDE ROAD



* Centerline treatment shall consist of a minimum of 400 feet of solid line in advance of the intersection and shall be paired with either a solid or dashed line depending on sight distance availability in the opposing lane.

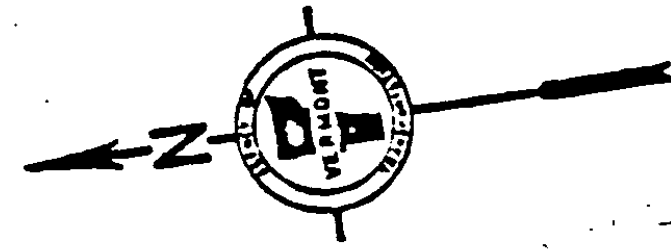
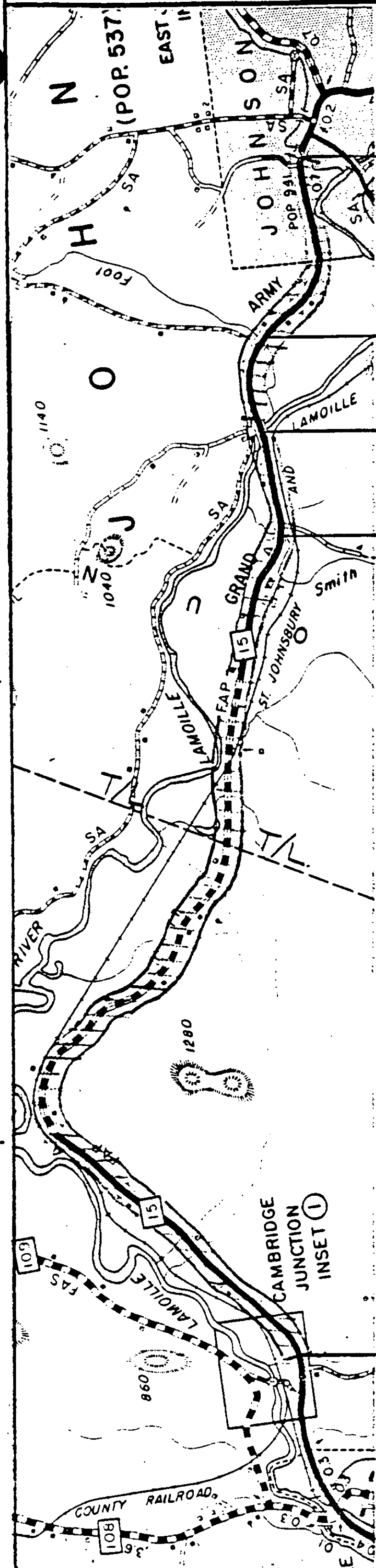
e. shoulder



GRAVEL SIDE ROAD INTERSECTION

HMA 2626, F030-2(3)E
HMA 2627
CAMBRIDGE-JOHNSON

PROJECT DESCRIPTION AND LOCATION



END PROJECT JOHNSON MM 3.927

BRIDGE No. 34 MM 2.773 - Do Not Level
PAVE WITH TOP ONLY (3/4" MAX. DEPTH)

BRIDGE No. 33 MM 2.302
Do Not Pave

BRIDGE No. 32 MM 1.765
Do Not Level - Pave with Top Only (3/4" MAX. DEPTH)

ON VT. RT. 15, BEGINNING 3.791 MILES
WESTERLY OF THE CAMBRIDGE-JOHNSON
TOWN LINE AT CAMBRIDGE MM 6.047,
THEN EASTERLY ON VT. RT. 15, 7.718
MILES TO JOHNSON MM 3.927.

LENGTH OF PROJECT: 7.718 MI.
40751 FT.

TRAFFIC DATA
1982 ADT = 3100
V = 50 MPH

T/L CAMBRIDGE MM 9.838 =
JOHNSON MM 0.000

BEGIN PROJECT
CAMBRIDGE MM 6.047

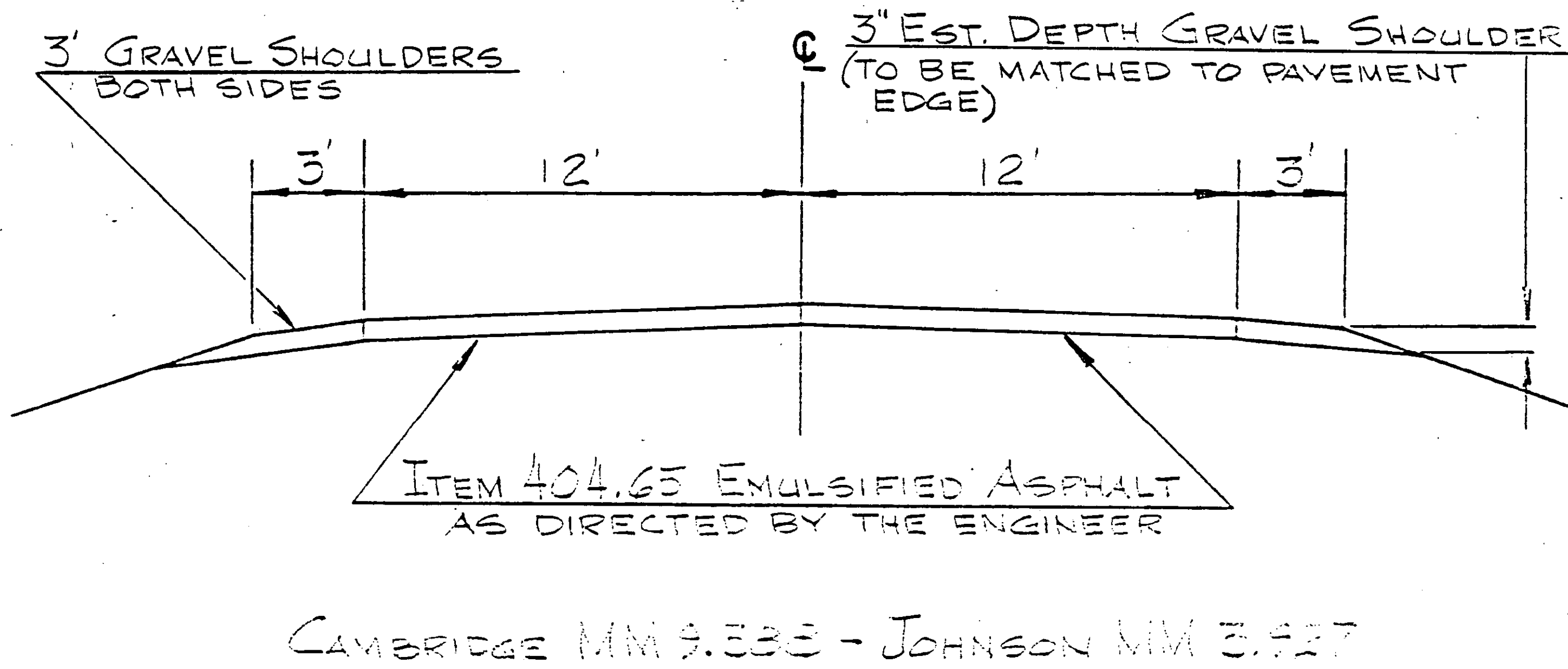
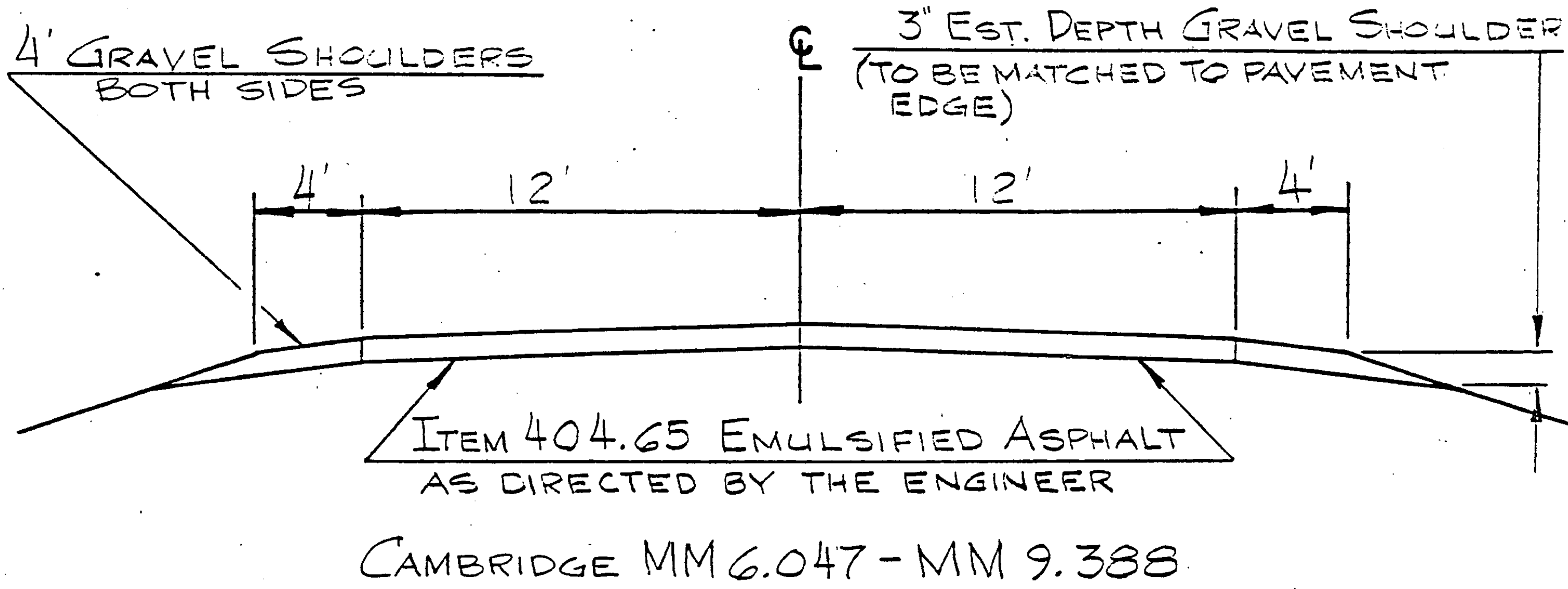
0 0.5 1 2
SCALE: 1" = 1 MILE

PROJECT CAMBRIDGE-JOHNSON

NO. HMA 2626

SHEET 7 OF 31 SHEETS

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (24' WIDE @ 327 TONS/MI.)
 AS DIRECTED BY THE ENGINEER
 1" - WEARING COURSE, TYPE III



PROJECT CAMBRIDGE-JOHNSON

NO. HMA 2626
 SHEET 8 OF 31

TEMPORARY 4" REFLECTORIZED YELLOW LINE

RMP

MILE	MILE	LT	RT	QUANTITY LT.	QUANTITY E	QUANTITY RT.	TOTAL	
CAMBRIDGE								
6.047	6.27	S	S	1177		1177	2354	
6.27	6.38	S	D	581		145	726	
6.38	6.78	S	S	2112		2112	4224	
6.78	6.90	S	D	634		158	792	
6.90	6.97	D	D		92		92	
6.97	7.03	D	S	145		581	726	
7.03	7.26	S	S	950		950	1900	
7.26	7.37	S	D	581		145	726	
7.37	7.44	D	D		92		92	
7.44	7.56	D	S	158		634	792	
7.56	7.60	S	S	211		211	422	
7.60	7.72	S	D	634		158	792	
7.72	8.26	S	S	3379		3379	6758	
8.26	8.48	S	D	634		158	792	
8.48	9.833	S	S	1890		1890	3780	
T/L 9.833	0.000	-	-	-		-	-	
JOHNSON								
0.000	0.06	S	S	317		317	634	
0.06	0.18	S	S	634		634	1263	
0.18	0.22	S	S	211		211	422	
0.22	0.40	S	S	950		950	1900	
0.40	0.41	S	S	53		53	106	
0.41	0.55	S	D	739		185	924	
0.55	0.92	D	D		1954		1954	
0.92	1.06	D	S	185		739	924	
1.06	3.927	S	S	15138		15138	30276	
SUB-TOTAL							63376	
ASSUME 100% LOST DUE TO LEVELING							=	63376
MINUS 5 ROADWAY OPENINGS AT 40' EACH							=	200
5 X 40 X 2 X 2 COURSES PAVEMENT = 800'							SUB-TOTAL =	125952
ROUNDING							=	48
TOTAL							=	126000

TEMPORARY 4" REFLECTORIZED WHITE LINE

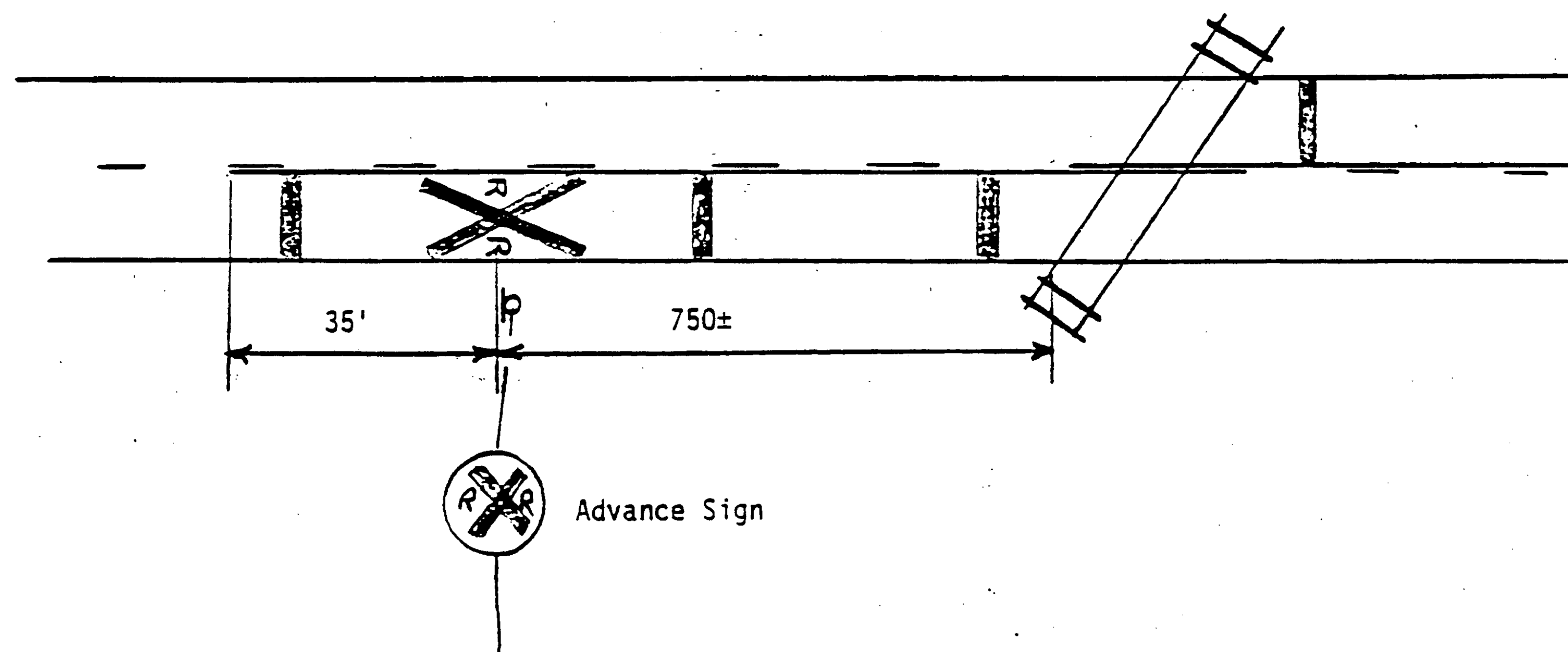
CAMBRIDGE - JOHNSON								
6.047	3.927	S	S	40751		40751	81502	
ROUNDING							=	5
TOTAL							=	81600

APPROACH TO A RAILROAD GRADE CROSSING

A solid line in the direction of travel is begun at a location 35 feet in advance of the advance warning sign. This sign is normally 750 feet or more in advance of the crossing. Consult the MUTCD for actual sign placement. (Centerline marking other than that shown by dimension lines are for example only).

NOTE:

1. SEE SIGN REMOVAL NOTES ON NEXT SHEET
2. RAILROAD CROSSING SYMBOLS (ITEM 646.30 AND ITEM 646.67) SHALL CONSIST OF THE X AND RR AND ALL LINES OR BARS.



CAMBRIDGE-JOHNSON

HMA 2626 SHEET 11 of 31

SIGN REMOVAL NOTES

1. REMOVAL OF EXISTING SIGNS AND POSTS TO BE SUBSIDIARY TO ITEM 675.20 TRAFFIC SIGNS, TYPE A.
2. ALL REMOVED SIGNS WILL BECOME THE PROPERTY OF THE STATE. COMPONENTS WILL BE STOCKPILED IN AN ACCESSIBLE LOCATION FOR PICK-UP BY DISTRICT FORCES.
3. ALL NEW SIGNS INSTALLED AS PART OF THIS PROJECT SHALL BE STAMPED ON THE BACK WITH VAOT, MONTH AND YEAR OF SIGN FABRICATION, AND ROUTE WHERE SIGN IS INSTALLED. THE LETTERS AND NUMBERS SHALL BE 1" HIGH AND $\frac{1}{2}$ " ± THE SIGN MATERIAL THICKNESS (MAXIMUM $\frac{1}{8}$ "). EXAMPLE:
VAOT
06/85
Vt. 15
4. SIGNS TO BE REMOVED ARE ON RT. 15 AT EB AND WB MM 0.406±.

SPECIAL NOTE

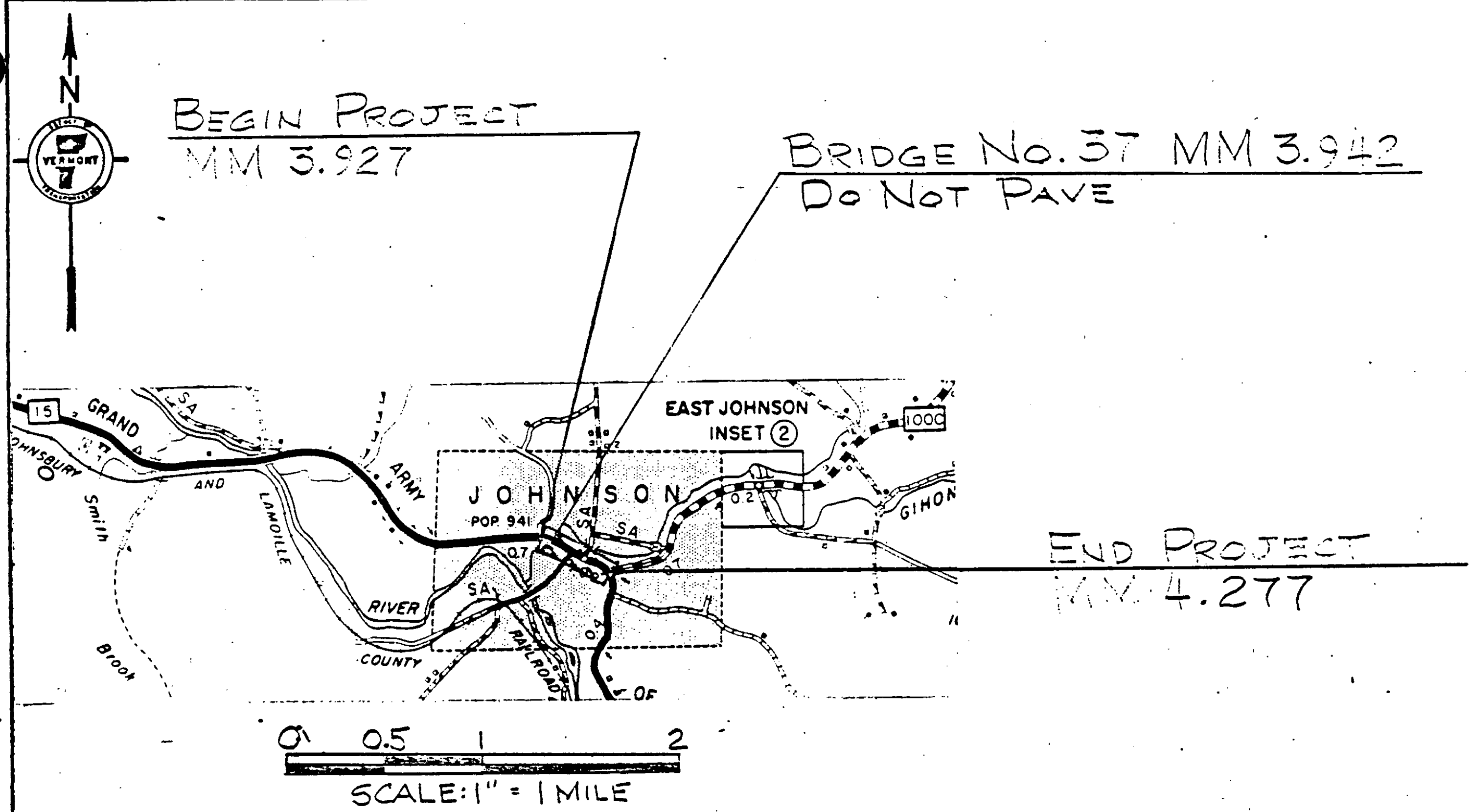
1. THE RESIDENT ENGINEER SHALL VERIFY THE LOCATION OF PASSING ZONES IN THE FIELD.

PROJECT CAMBRIDGE - JOHNSON

NO. HMA 2626

SHEET 12 OF 31 SHEETS

PROJECT DESCRIPTION AND LOCATION



ON Vt. Rt. 15 IN THE VILLAGE OF JOHNSON, BEGINNING 0.350 MILES WESTERLY OF THE INTERSECTION OF Vt. Rt. 15 AND Vt. Rt. 100C AT MM 3.927, THEN EASTERLY 0.350 MILES TO MM 4.277. END OF PROJECT IS AT THE INTERSECTION OF Vt. Rt. 15 AND Vt. Rt. 100C.

LENGTH OF PROJECT: 0.350 MILES
1848 FEET

TRAFFIC DATA
1992 ADT = 4250
V = 25 MPH

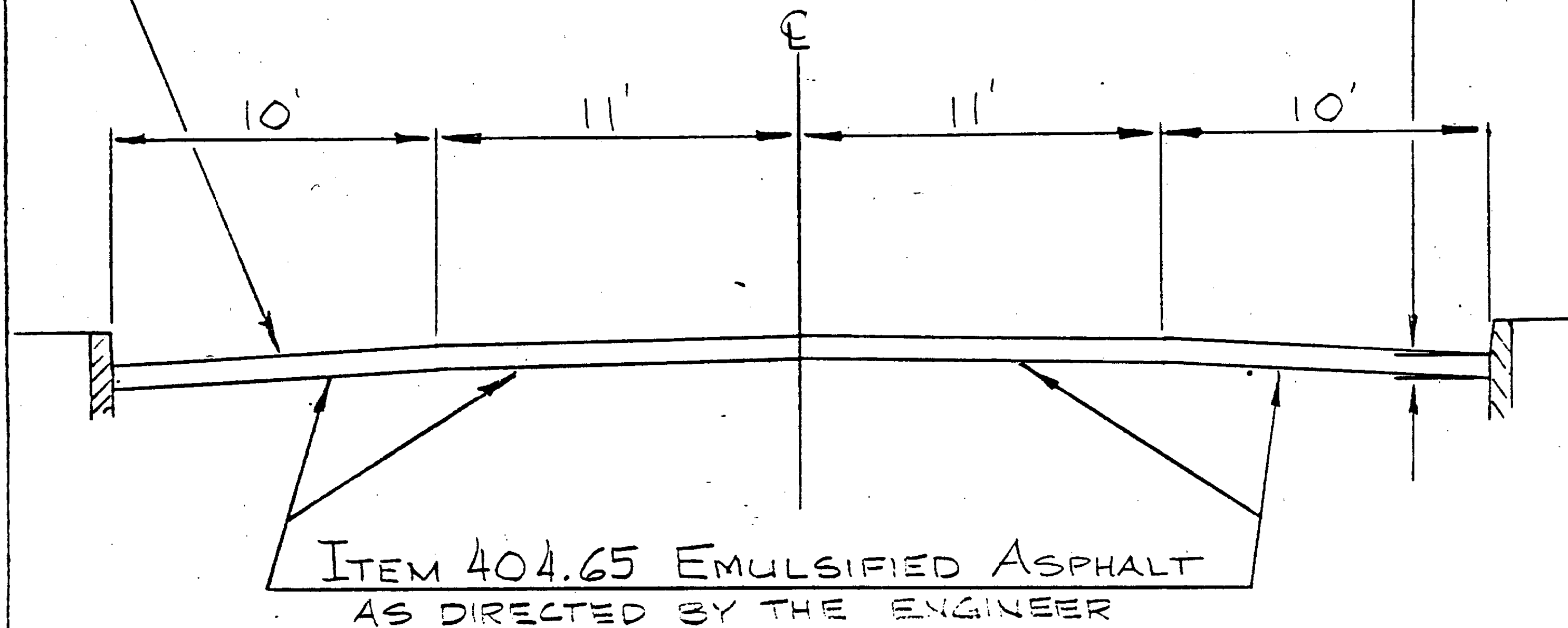
PROJECT JOHNSON

NO. F 030-2(15)S
SHEET 13 OF 31 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE, TYPE III OR IV (42' WIDE @ 477 TPA) (1)
AS DIRECTED BY THE ENGINEER
1/2" - WEARING COURSE, TYPE III

10' PAVED SHOULDERS BOTH SIDES (LEVEL & WEAR COURSE) TAPER OUTSIDE EDGE OF SHOULDER TO 1/2" (TYPICAL)



JOHNSON MM 3.927 - MM 4.10

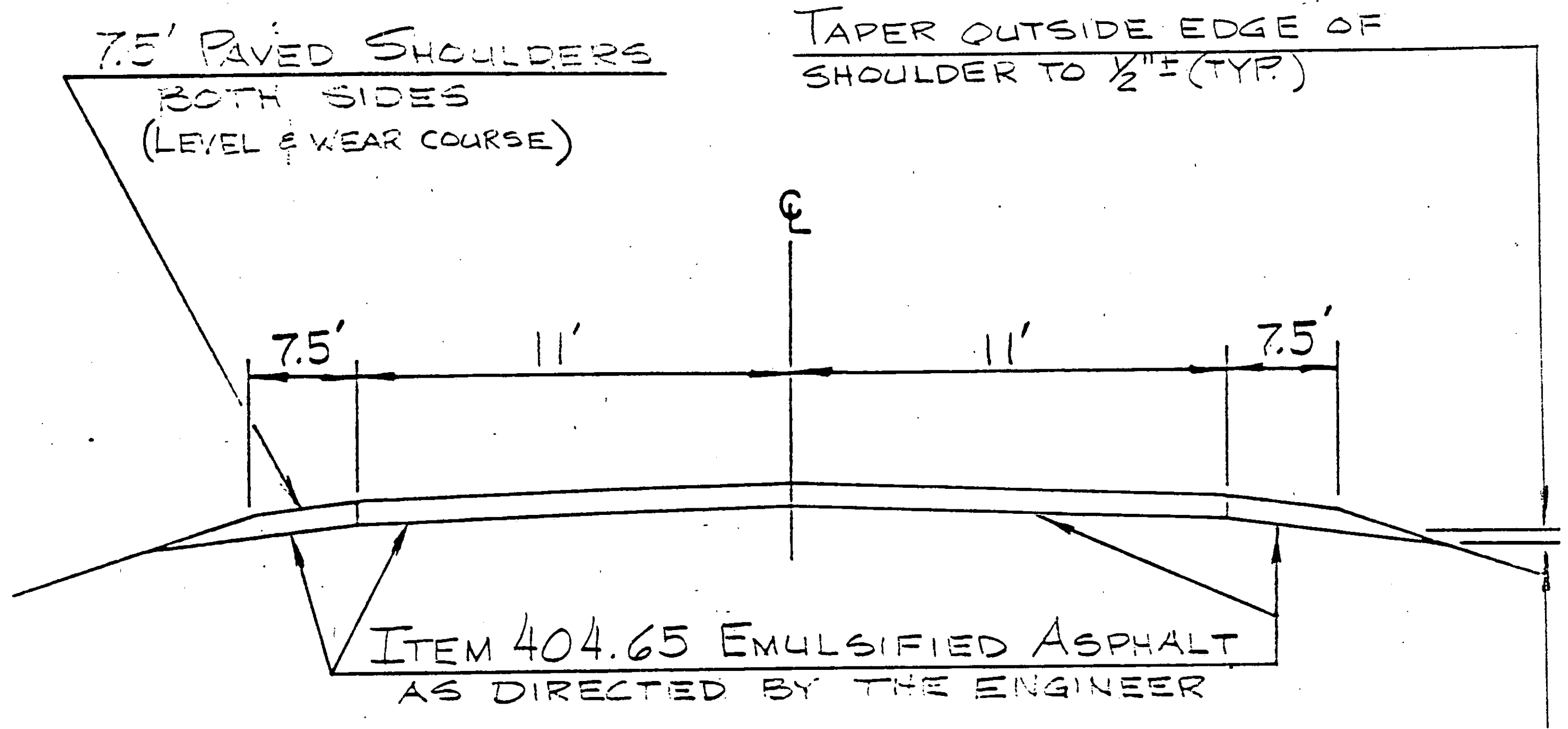
PROJECT JOHNSON

NO. F 030-2(15)S

SHEET 4 OF 3 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE, TYPE III OR IV (37 WIDE @ 420 TONS/MI.)
AS DIRECTED BY THE ENGINEER
1/2" - WEARING COURSE, TYPE III



JOHNSON MM 4.10 - MM 4.277

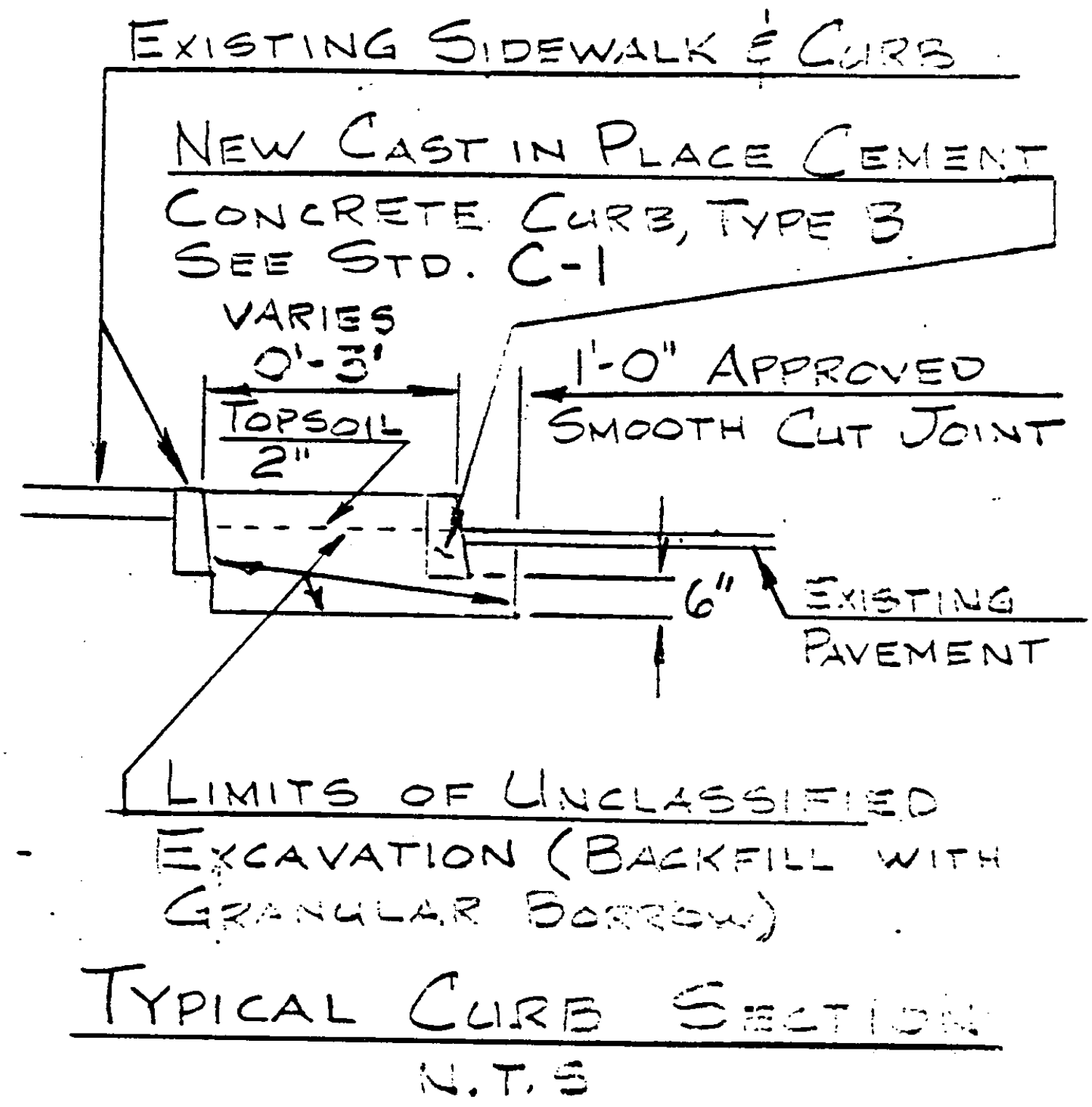
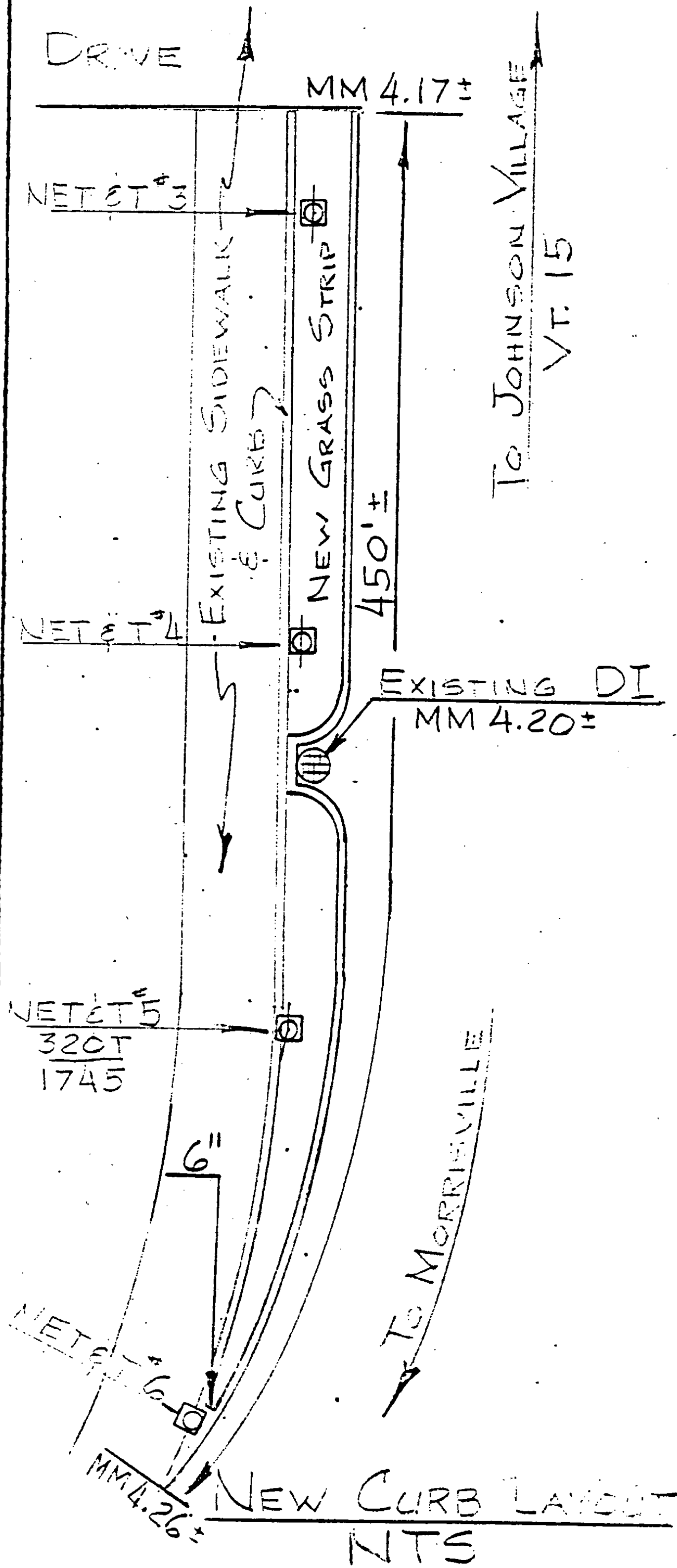
Note: Topsoil, Item 653.10 to be applied as directed by the Engineer.
Seed, Fertilizer, Limestone and Mulch Items to be applied as required,
payment to be subsidiary to the Topsoil item.

PROJECT JOHNSON

NO. F030-3(15)S
SHEET 4 A OF 31 SHEETS

CURB LAYOUT AND TYPICAL

NET & T #2

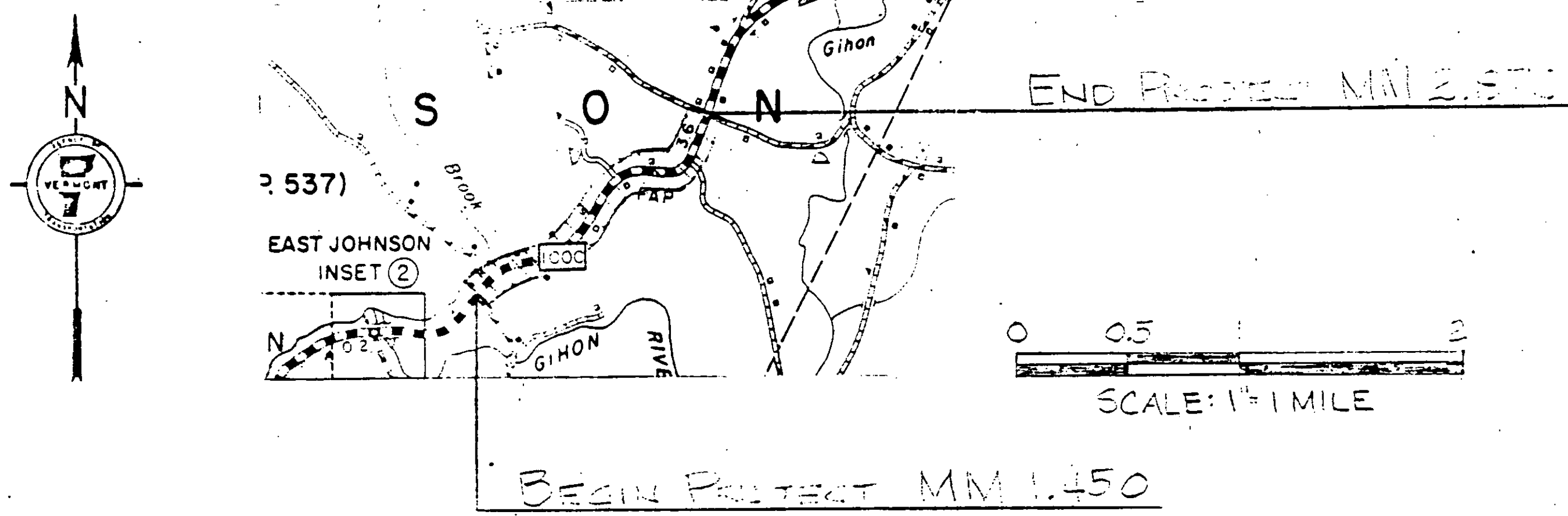


- NOTE:
1. SEE STD. C-1 FOR CURB END TREATMENT AT DRIVES.
 2. WHEN DISTANCE BETWEEN EXISTING CURB & NEW CURB IS 6" (AT MM 4.26±) FILL AREA BETWEEN WITH CONCRETE.

PROJECT JOHNSON

NO. 30-4/15'S
SHEET 15 OF 31 SHEETS

PROJECT DESCRIPTION AND LOCATION



ON VT. RT. 100C, BEGINNING 1.450 MILES NORTHWEST
 OF THE INTERSECTION OF VT. RT. 15 AND VT. RT. 102 IN
 THE VILLAGE OF JOHNSON, AT MM 1.450 THEN NORTHERLY
 1.42 MILES TO MM 2.870. END OF PROJECT IS 1.645
 MILES SOUTHERLY OF THE JOHNSON-HYDE PARK RD.

LENGTH OF PROJECT: 1.420 MILES
 7498 FEET

MAP DATA
 1430
 1750

PROJECT _____

NO. MM 2607

SHEET 6 OF 31 SHEETS

TEMPORARY 4" REFLECTORIZED YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY RT	REMARKS
1.450	2.870	S	S	7498	7498	100%
APPROX 100% LOSS DUE TO LEVELING						
				SUB-TOTAL		14996
MINUS 4 SIDERAILS AT 40' EACH						
4x40x2=320x2=640						
				SUB-TOTAL		14356
				TOTAL		14356

TEMPORARY 4" REFLECTORIZED WHITE LINE

1.450	2.870	S	S	7498	7498	100%
				SUB-TOTAL		14996
				TOTAL		14996

21