

STATE OF VERMONT
AGENCY OF TRANSPORTATION

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



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

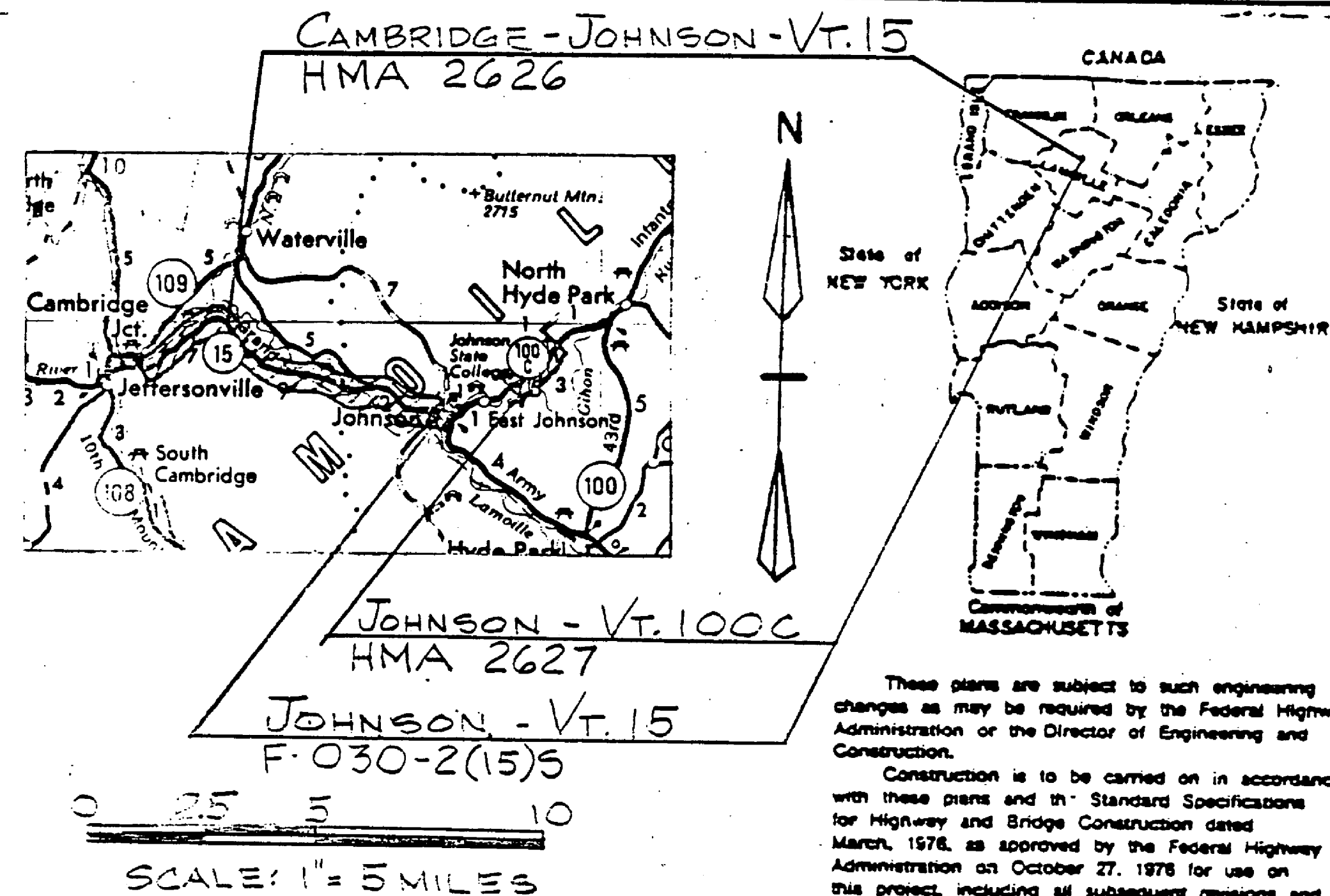
PROPOSED IMPROVEMENT
Susan C. Campbell RESURFACING PROJECT
Transportation Secretary's

Signature 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 Frank E. Adrich DATE FEB 25 1985
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO. HMA 2626, F030-2(15)S
HMA 2627

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HMA 2626, F030-20(5)S
NO. HMA 2627

PROJECT CAMBRIDGE - JOHNSON

SHEET 24 OF 31 SHEETS

QUANTITIES

Cambridge Project Cambridge Johnson
HMA 2626, F030-2(15)
NO. HMA 2627 SHEET 3 OF 3

CAMPBELL- JOHNSON

 $\dot{O}_N$

IMA 2637

139 AMT
HMA 2627

SHEET 3 OF 10

PROJECT	LENGTHS	AND	ITEM	QUANTITIES
1	100		100	100
2	200		200	200
3	300		300	300
4	400		400	400
5	500		500	500
6	600		600	600
7	700		700	700
8	800		800	800
9	900		900	900
10	1000		1000	1000
11	1100		1100	1100
12	1200		1200	1200
13	1300		1300	1300
14	1400		1400	1400
15	1500		1500	1500
16	1600		1600	1600
17	1700		1700	1700
18	1800		1800	1800
19	1900		1900	1900
20	2000		2000	2000
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22	2200		2200	2200
23	2300		2300	2300
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25	2500		2500	2500
26	2600		2600	2600
27	2700		2700	2700
28	2800		2800	2800
29	2900		2900	2900
30	3000		3000	3000
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38	3800		3800	3800
39	3900		3900	3900
40	4000		4000	4000
41	4100		4100	4100
42	4200		4200	4200
43	4300		4300	4300
44	4400		4400	4400
45	4500		4500	4500
46	4600		4600	4600
47	4700		4700	4700
48	4800		4800	4800
49	4900		4900	4900
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51	5100		5100	5100
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77	7700		7700	7700
78	7800		7800	7800
79	7900		7900	7900
80	8000		8000	8000
81	8100		8100	8100
82	8200			

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HMA 2626, F030-2(15)5

COMPOSITE PROJECT CHALLENGE

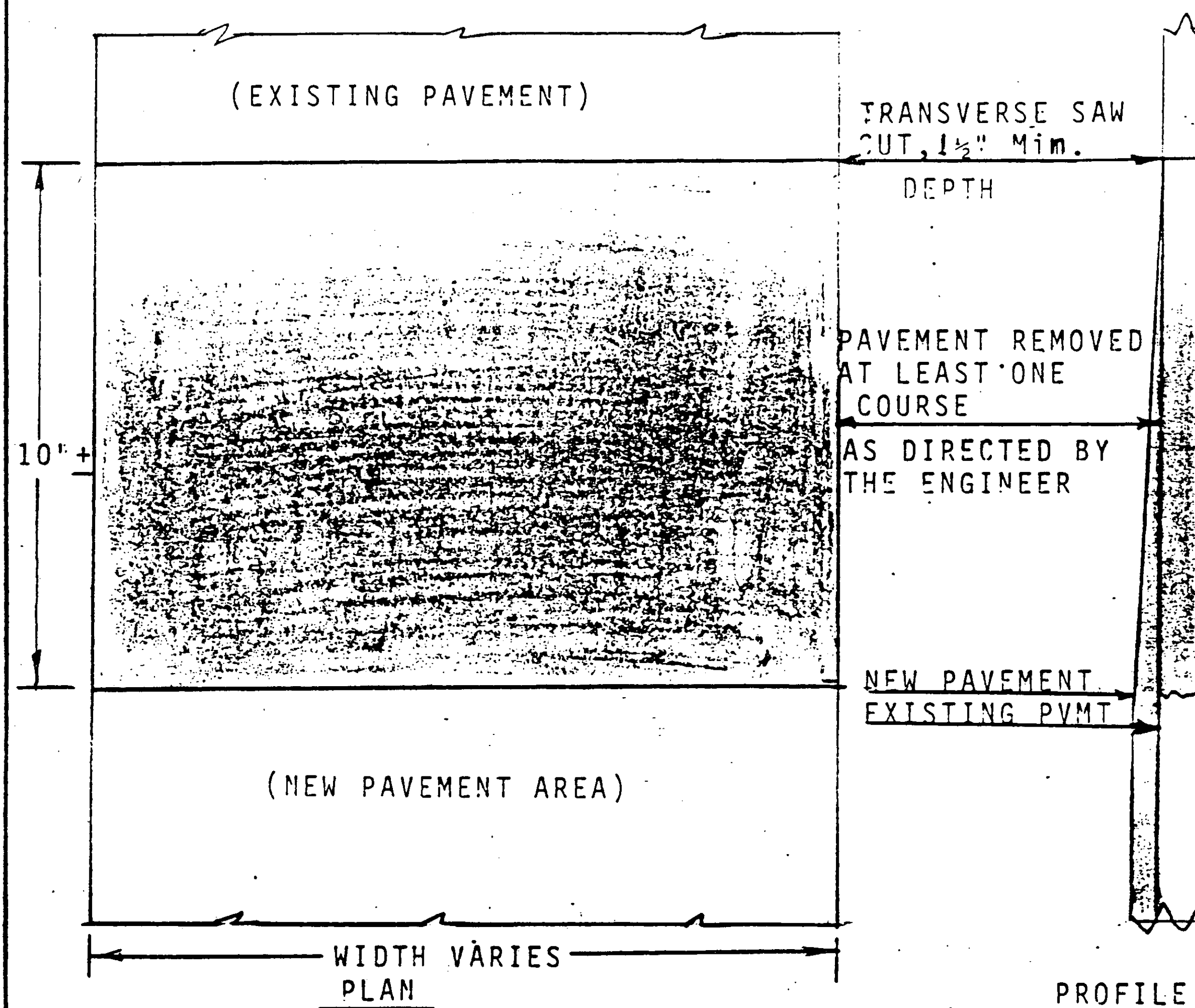
ON

HMA 2027

SHEET 3A OF

PROJECT LENGTHS AND ITEM QUANTITIES													
ITEM DESCRIPTION				WIDTH				LENGTH					
ITEM NO	UNIT	LOCATION	FT	UNCLASSIFIED EXCAVATION		CONCRETE, CLASS B		CAST-IN-PLACE CEMENT CONCRETE CURB TYPE B		616.26	LF		
				203.17	203.32	501.25							
		CAMBRIDGE - JOHNSON HMA 2626		-	-	-	-	-	-				
		JOHNSON FO30-2(15)S		90'	100'	1'				460'			
		JOHNSON HMA 2627		-	-	-				-			
		COMPOSITE TOTAL		90'	100'	1'				460'			

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 26 26, F030-2(15)S
HMA 26 27

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.

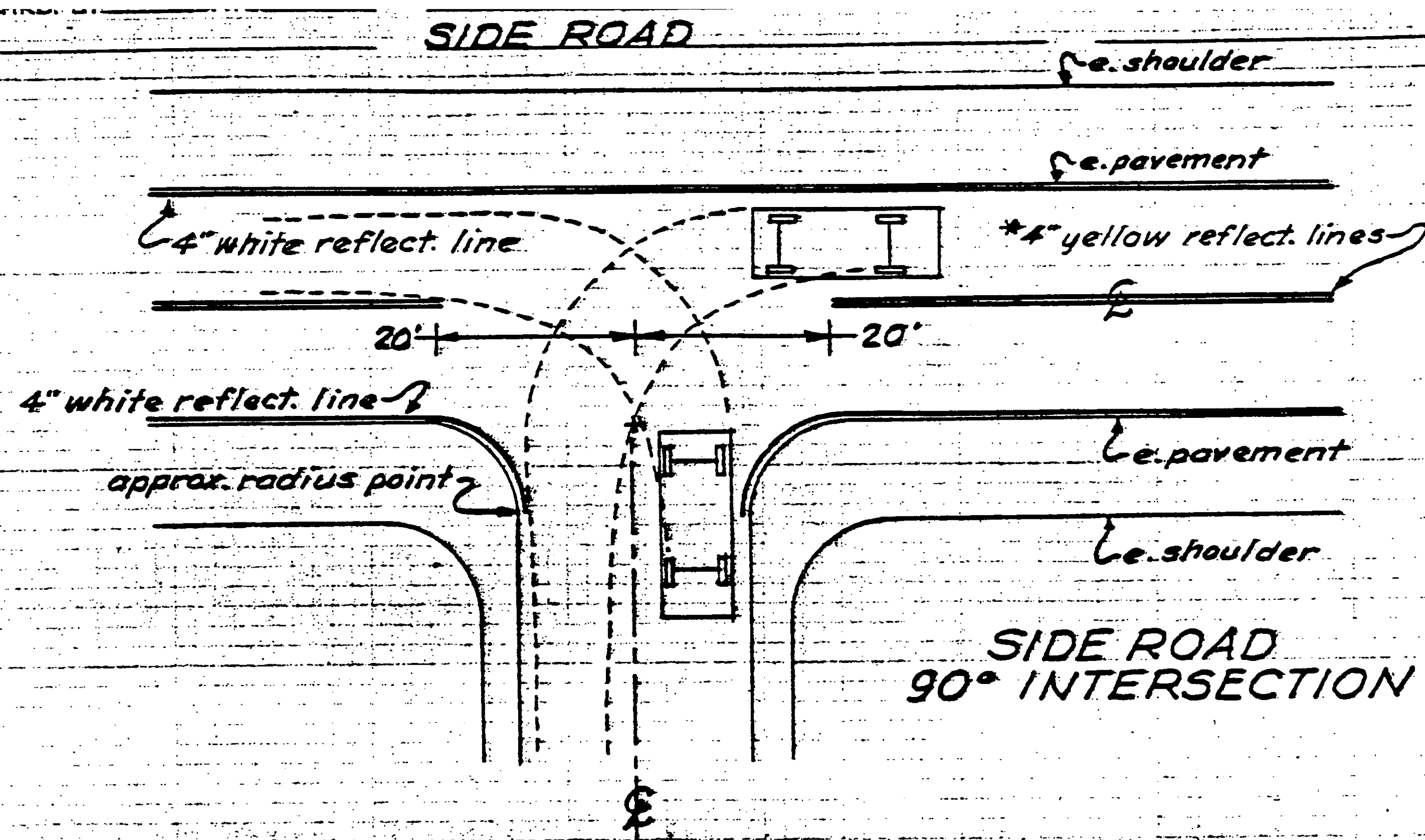
- C. WHEN PAINT IS USED FOR TEMPORARY MARKING, AN ALTERNATE MATERIAL SUCH AS TAPE OR RPM'S SHALL BE ON HAND IN THE EVENT RAIN PREVENTS THE PAINT APPLICATION FROM BEING COMPLETED. ALL PAINT SHALL BE REFLECTORIZED.
- D. PAYMENT FOR PAINT AND TAPE SHALL BE COMPUTED ON A LINEAR FOOT BASIS AS IF PAINT WAS 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(3)S REVISED

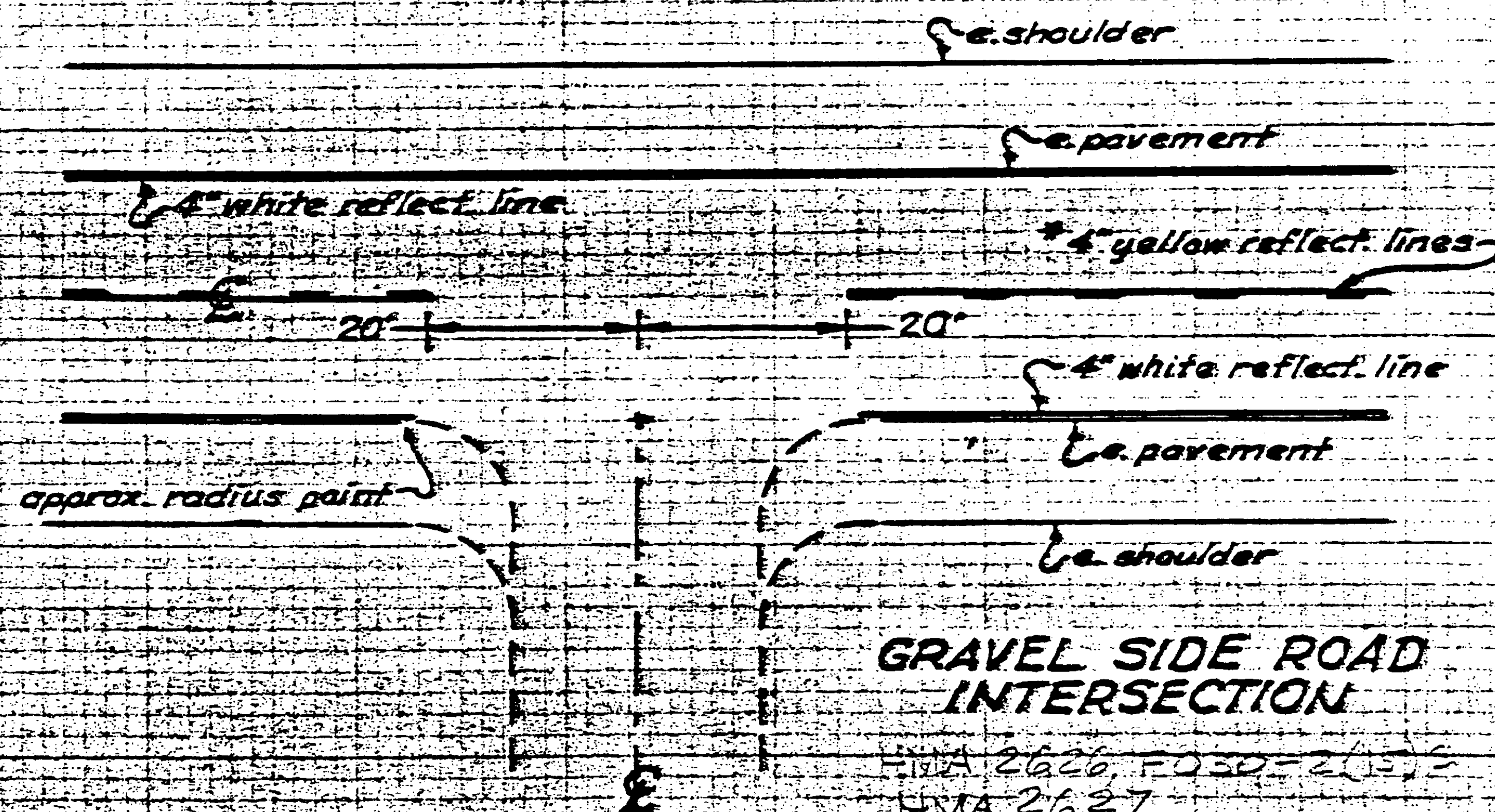
HMA 2627

01/12/85

CAMBRIDGE-JONKSON SHEET 5 OF 31



* 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.

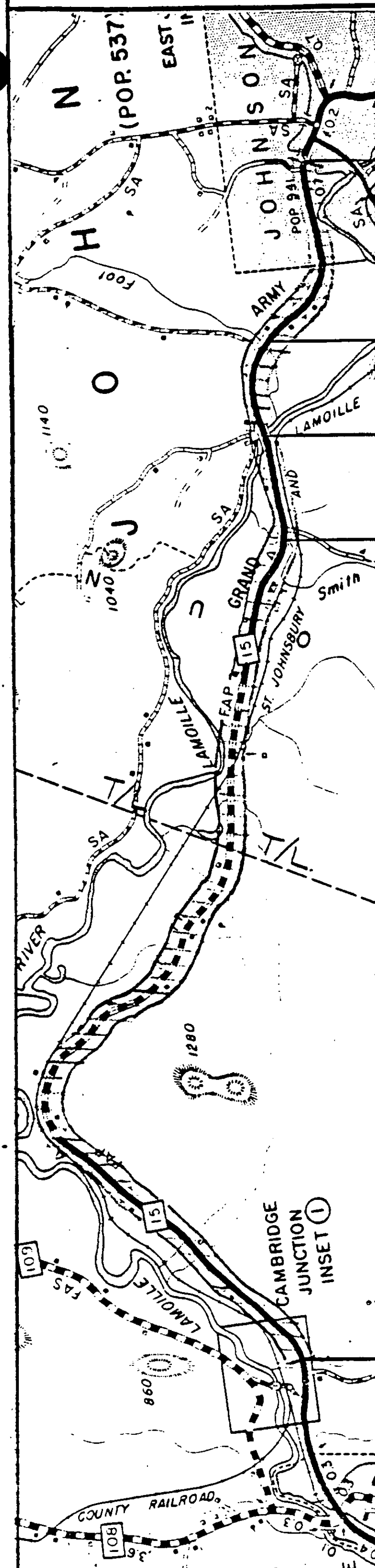


HMA 2626, F030-2(3)E
HMA 2627

COVERIDGE - DUNNISON

SHEET 6 OF 31

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

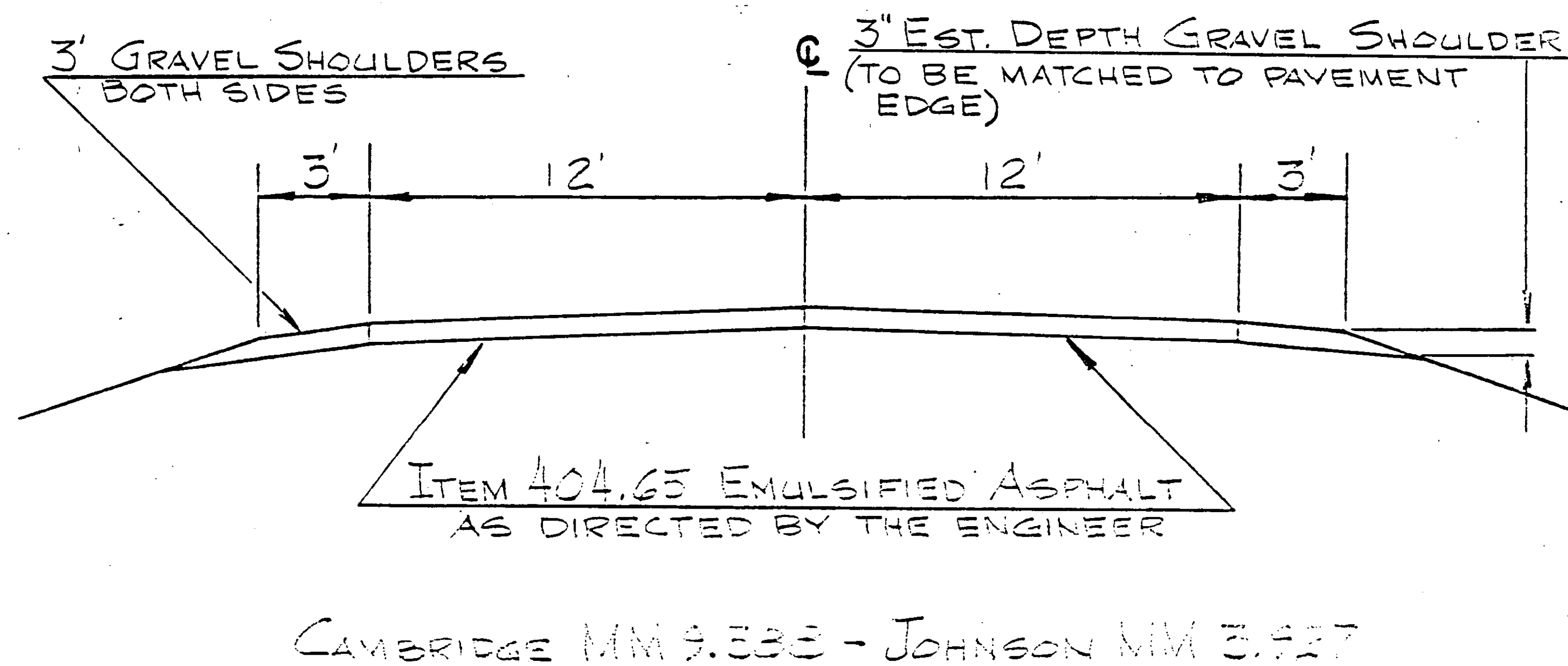
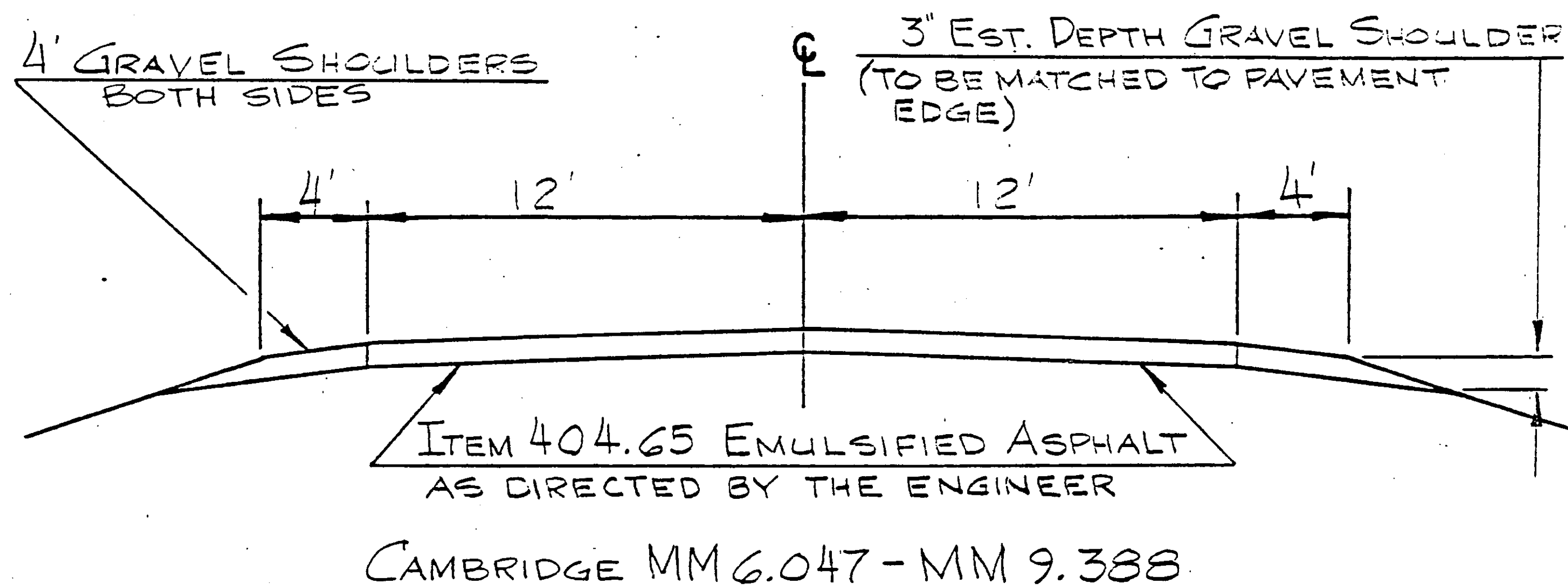
0 0.5 1 2
SCALE: 1" = 1 MILE

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

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PMD

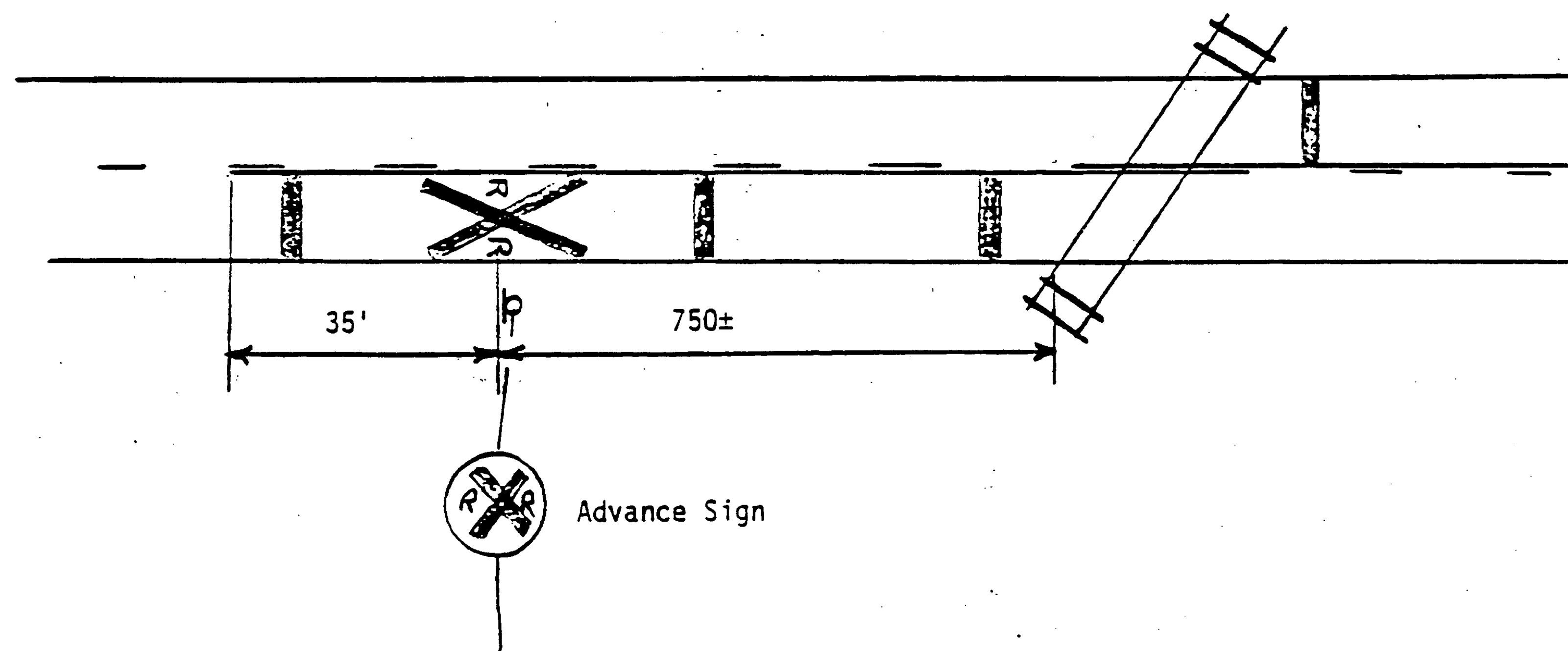
Sheet 10 of 31

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 R R 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 $\frac{1}{2}$ " $\pm$ 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 $\pm$.

SPECIAL NOTE

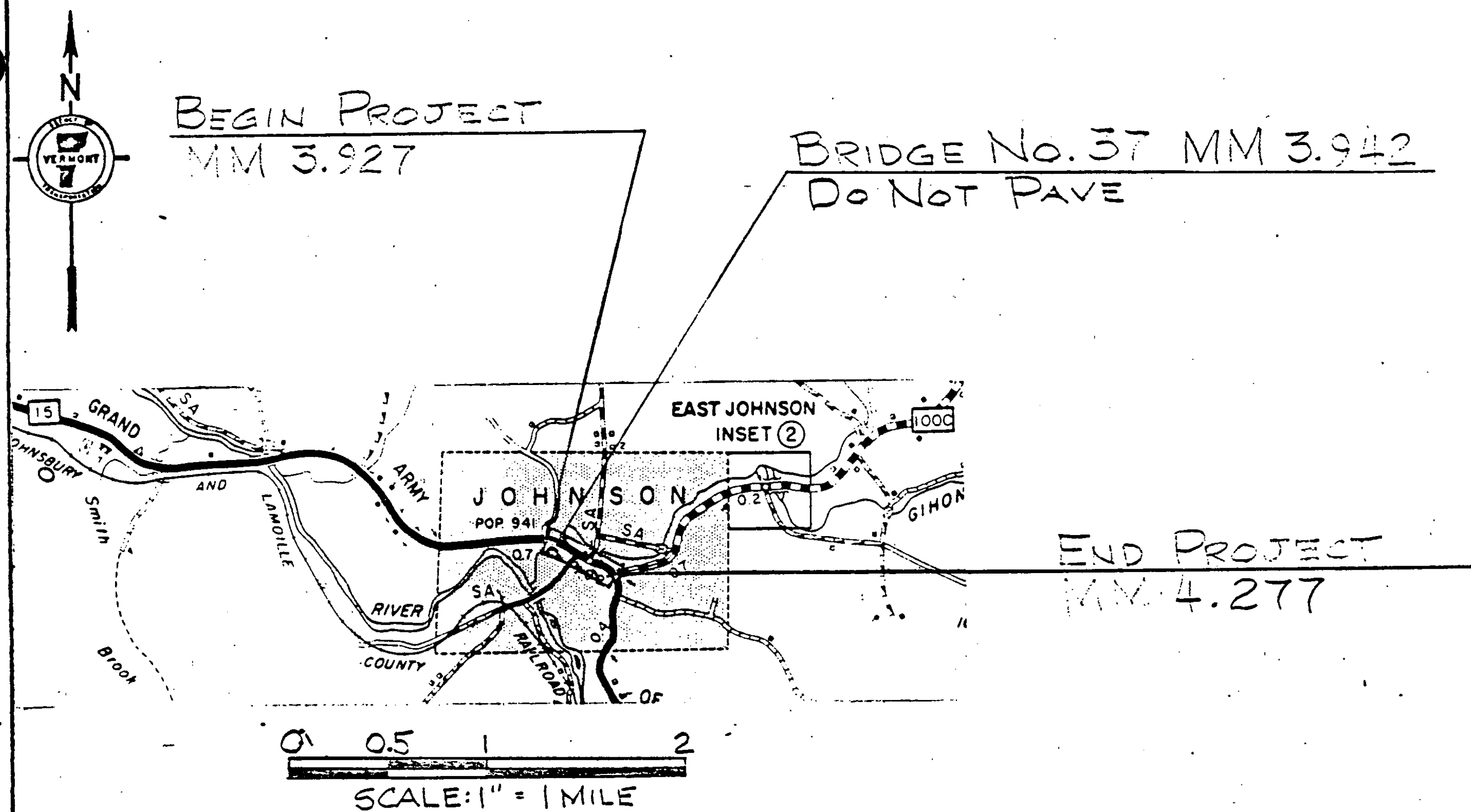
1. THE RESIDENT ENGINEER SHALL VERIFY THE LOCATION OF PASSING ZONES IN THE FIELD.

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
1849 FEET

TRAFFIC DATA
1992 ADT = 4250
V = 25 MPH

PROJECT JOHNSON

NO. E 030-2(15)S

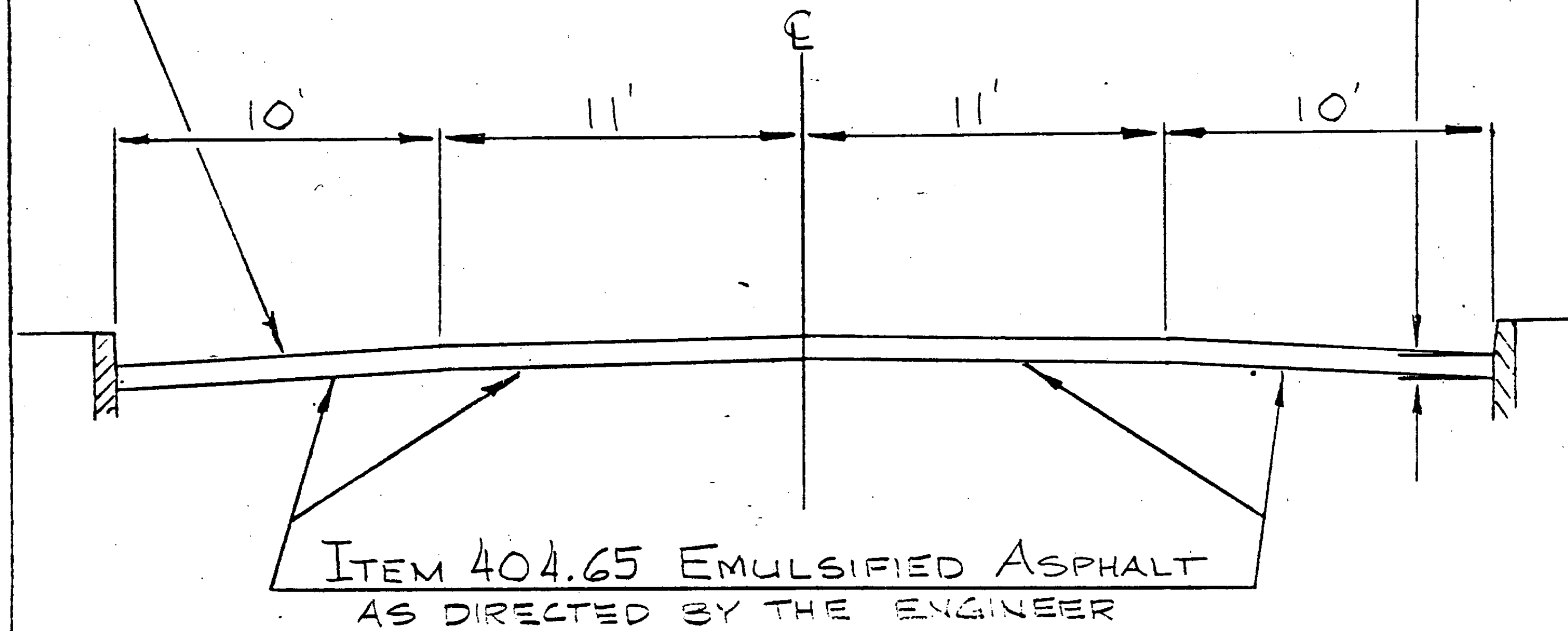
SHEET 13 OF 31 SHEETS

TYPICAL SECTIONS & DESIGN DATA

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

10' PAVED SHOULDERS BOTH
 SIDES (LEVEL & WEAR COURSE)

TAPER OUTSIDE EDGE OF SHOULDER
 TO 1/2" I (TYPICAL)



JOHNSON MM 3.927 - MM 4.10

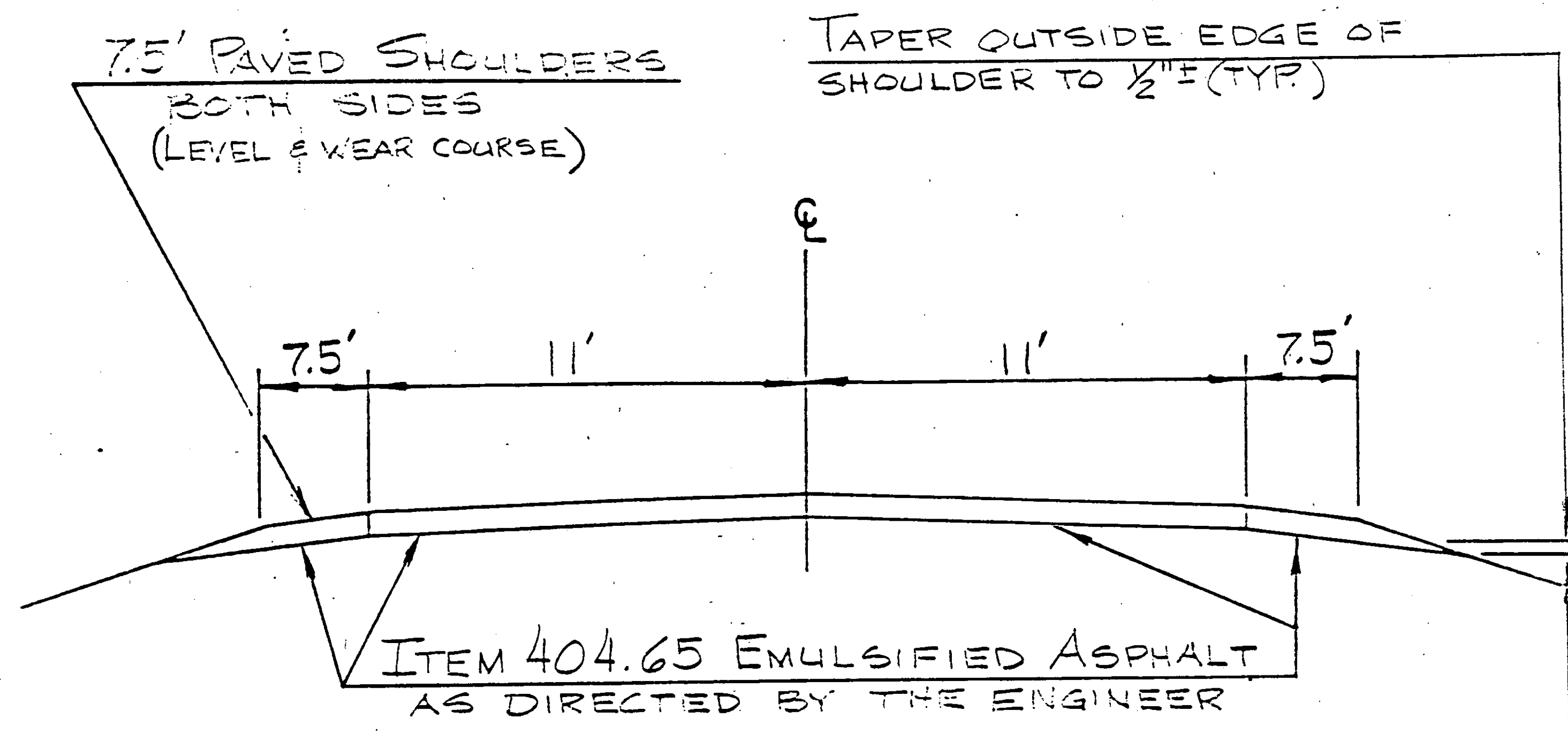
PROJECT JOHNSON

NO. F 030-2(15)S

SHEET 14 OF 31 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 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.

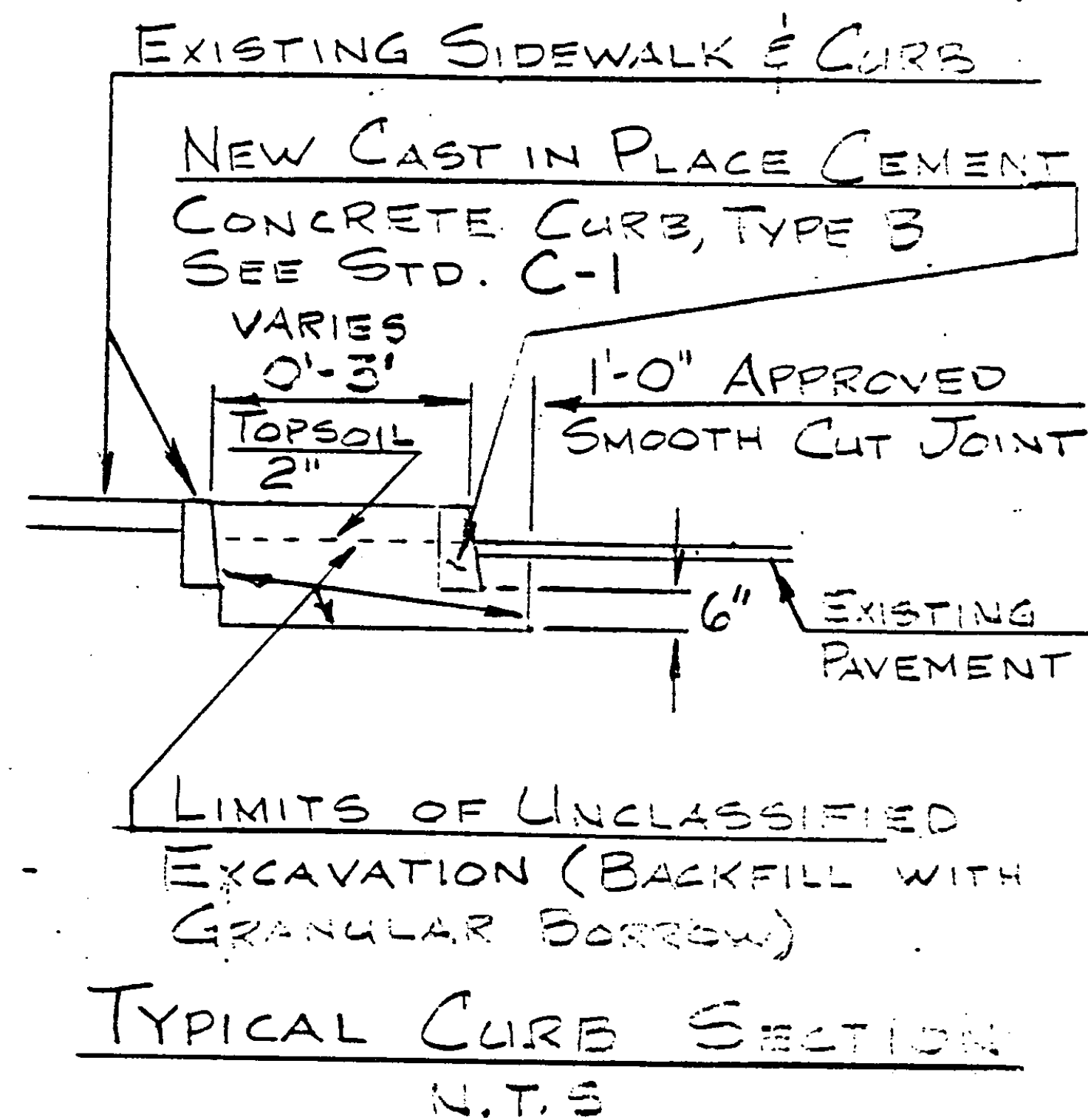
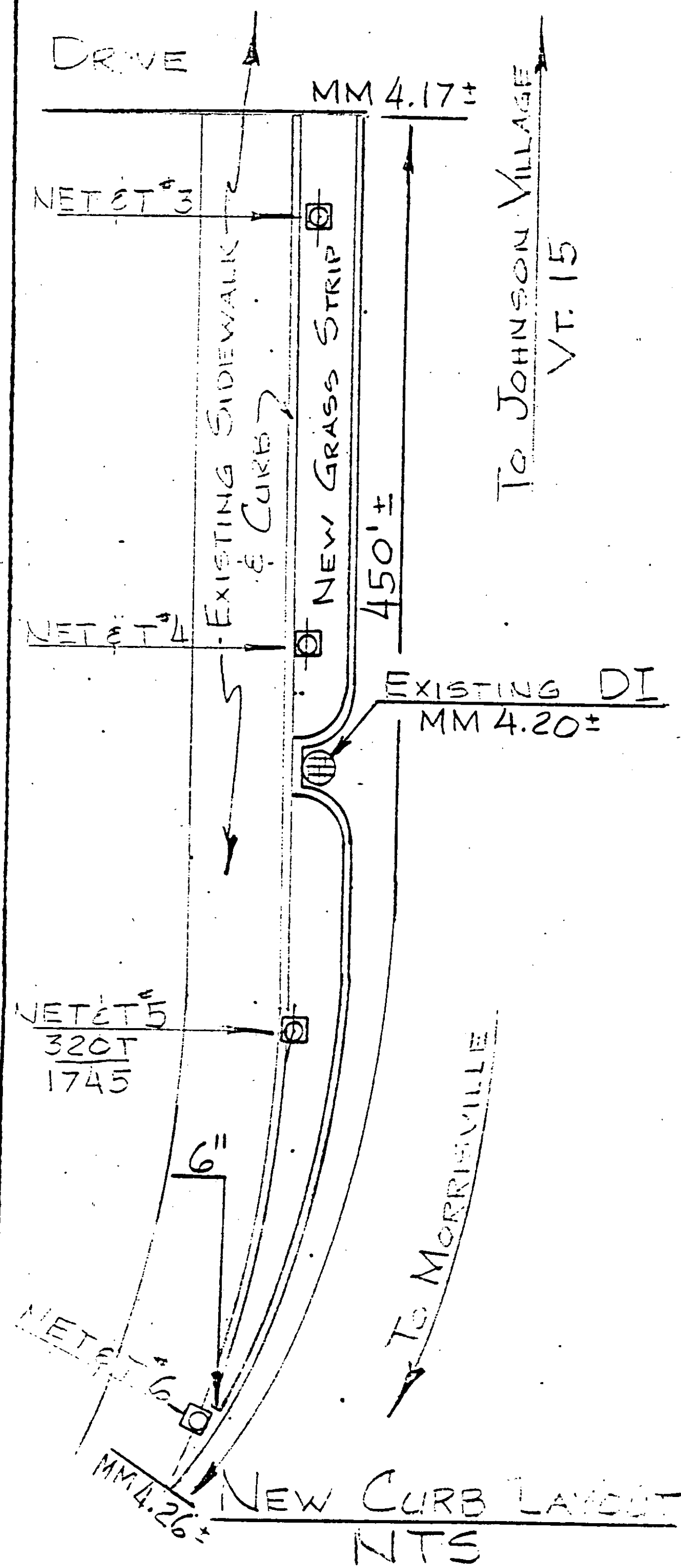
PROJECT JOHNSON

NO. F030-2(15)S

SHEET 4 A OF 3 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

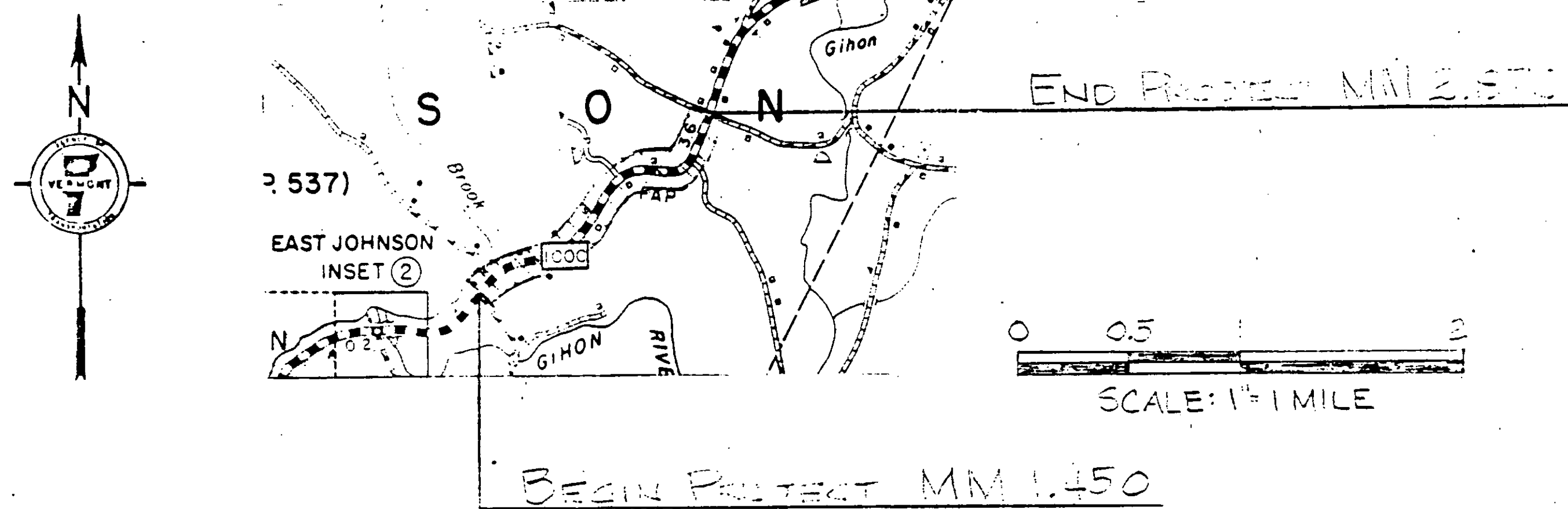
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TEMPORARY 4" REFLECTORIZED WHITE LINE

SHEET 17 OF 31

PROJECT DESCRIPTION AND LOCATION



ON VT. RT. 100C, BEGINNING 1.450 MILES NORTH OF
 THE INTERSECTION OF VT. RT. 15 AND VT. RT. 612 IN
 THE VILLAGE OF JOHNSON, AT MM 1.450 THEN NORTHEAST
 1.42 MILES TO MM 2.870. END OF PROJECT IS 1.645
 MILES SOUTHEASTLY OF THE JOHNSON-HYDE PARK JCT.

LENGTH OF PROJECT: 1.420 MILES
 7498 FEET

TRAFFIC DATA
 1430
 1750

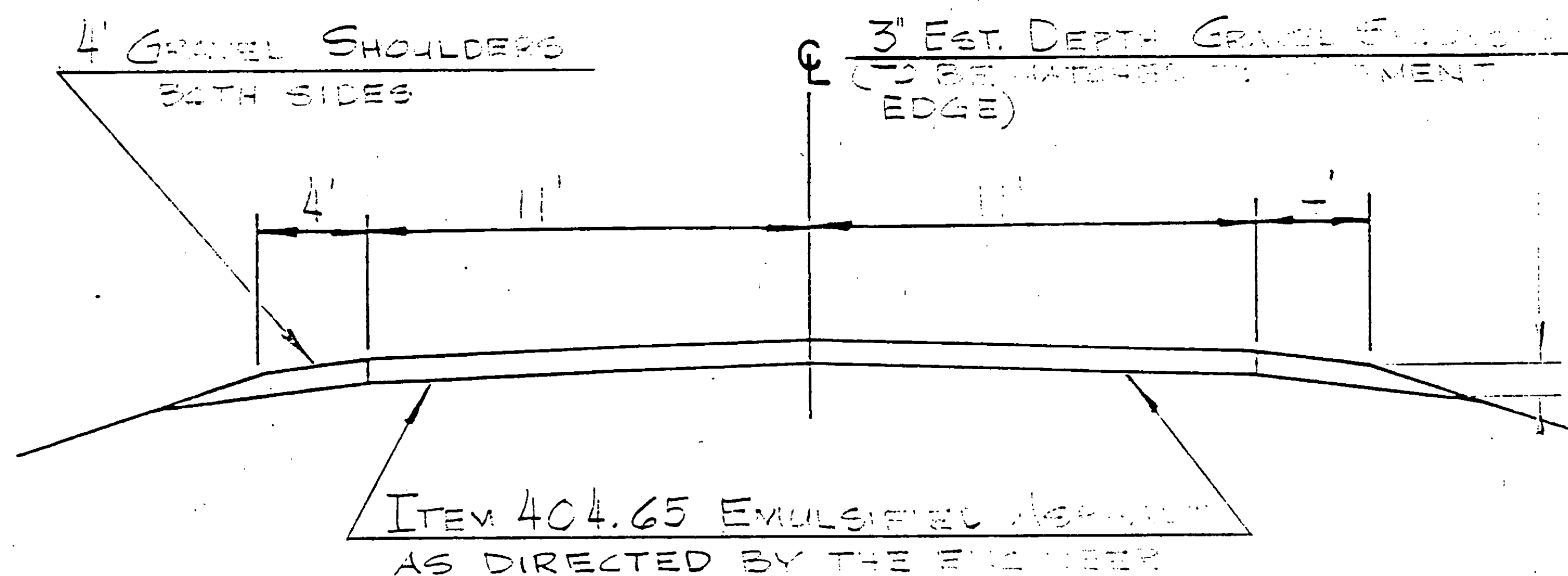
PROJECT

NO. 2627

SHEET 6 OF 31 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR II 1/2 IN. THICK @ 2 1/2 IN. MIN. MAX.
 AS DIRECTED BY THE ENGINEER
 3/4" WEARING COURSE, TYPE IV



PROJECT JOHNSON

NO. HMA 2007

SHEET 12 OF 31 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION																	
UNIT LOCATION	FEET	FT	INCH	C.Y.	CY	TON	CWT	TON	EA	OPTION							
										HR	HR	HR	IF	IS	IF	IS	IF
ITEM NUMBER																	
65310																	
402.10																	
402.11																	
406.65																	
406.25																	
604.40																	
608.25																	
608.30																	
630.10																	
635.10																	
646.35																	
646.36																	
REMA																	
JOHNSON WM 1.450-2.870	7498	22	3/4		555	972	46	764								3/4" WEAR COURSE	
								A26								4" GRAVEL COURSE	
																	LEVEL OF ROAD
Paving				110	100	175	4	100	-	11	64	64	0.5	149%	352		DRIVE PAVEMENT
					5	3	-	-	-	-	1	1	-	4	48		
Gravel																	
TOTAL	7498			110	660	1150	50	1290	-	11	65	65	0.5	1500%	4400		

