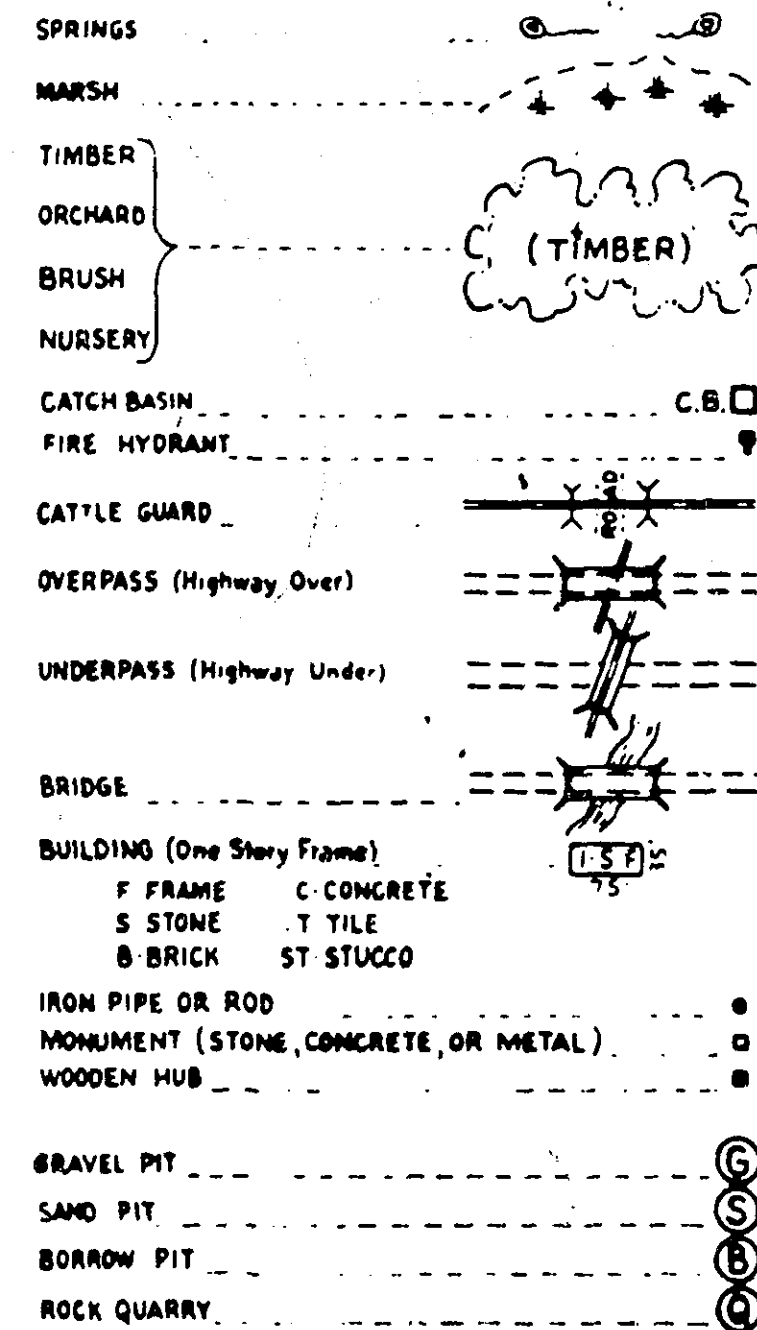
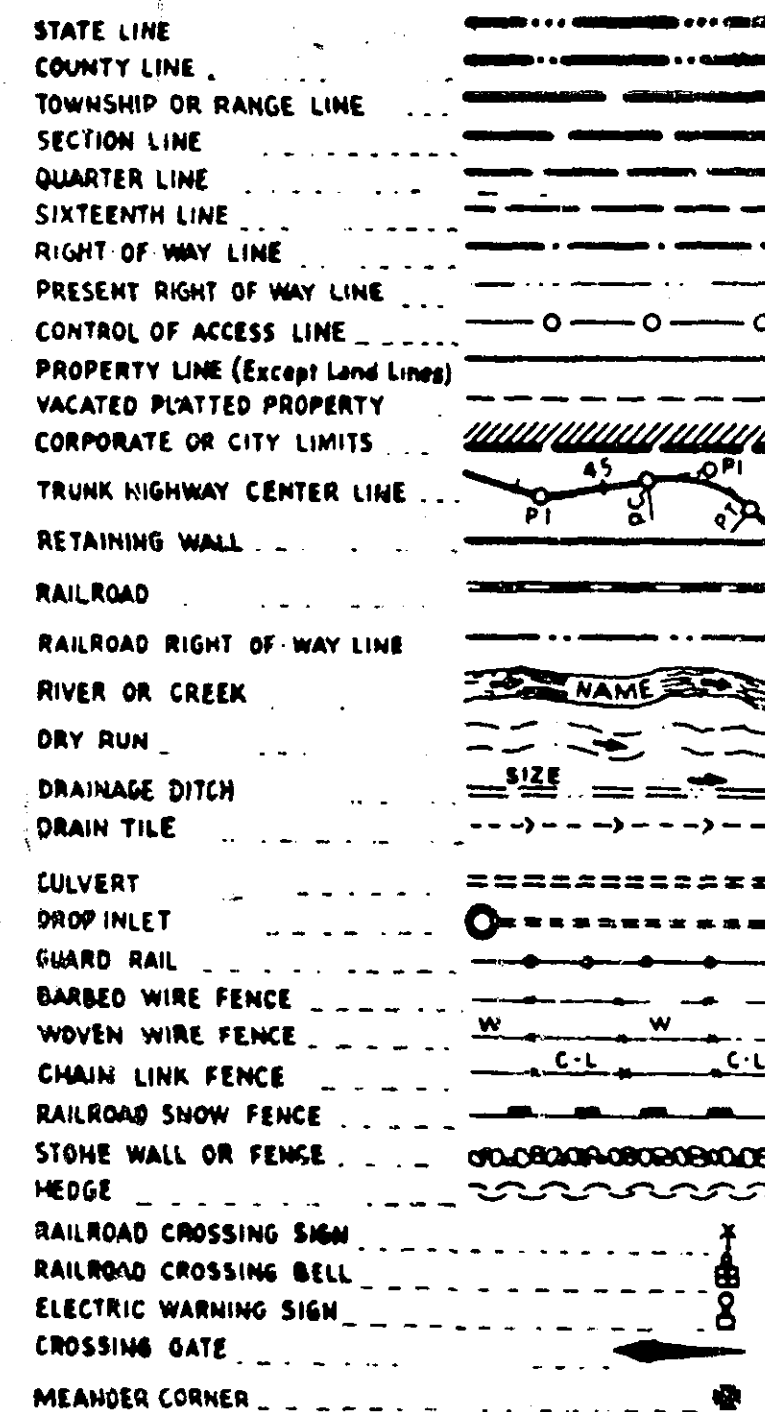
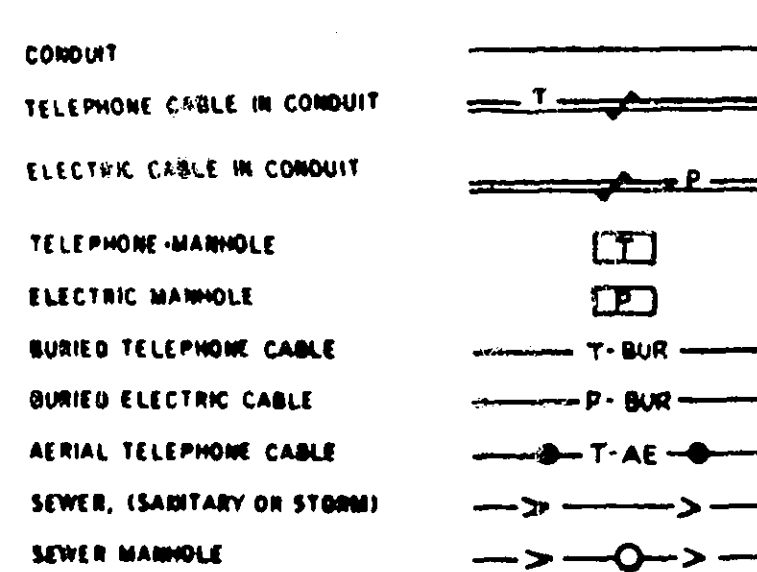
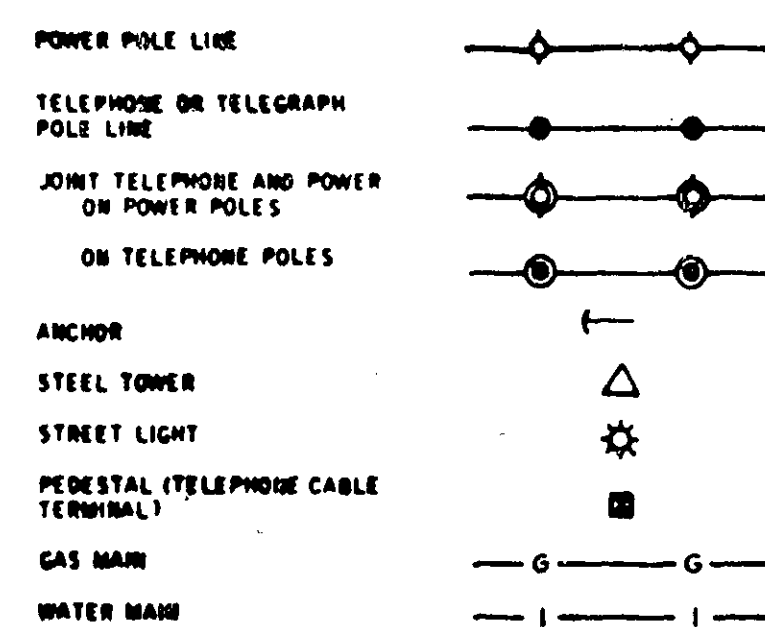


PLANS SYMBOLS



UTILITIES SYMBOLS

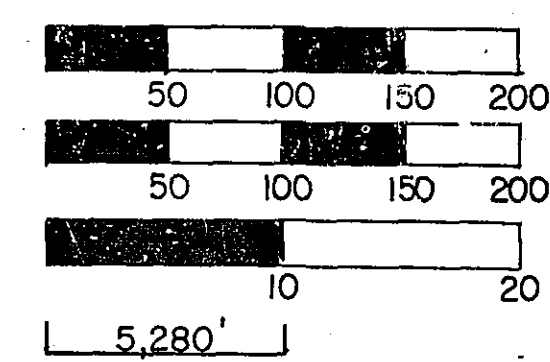


PIT DATA

PIT NO. _____	Located in _____
PIT NO. _____	Located in _____

BIKEWAY	FEET	MILES
GROSS LENGTH	4376	0.8288
BRIDGE LENGTH	0	0
EXCEPTION	0	0
NET LENGTH	4376	0.8288

PLAN
PROFILE HORIZ.
PROFILE VERT.
LAYOUT MAP



OVERLAY	FEET	MILES
GROSS LENGTH	5763	1.0915
BRIDGE LENGTH	0	0
EXCEPTION	0	0
NET LENGTH	5763	1.0915

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS LOWER AFTON ROAD BIKEWAY AND BITUMINOUS OVERLAY

CONSTRUCTION PLAN FOR BITUMINOUS BIKEWAY
FROM: A POINT 1324' EAST OF MCKNIGHT ROAD
TO: CENTURY AVENUE

CONSTRUCTION PLAN FOR BITUMINOUS OVERLAY
FROM: MCKNIGHT ROAD
TO: CENTURY AVENUE

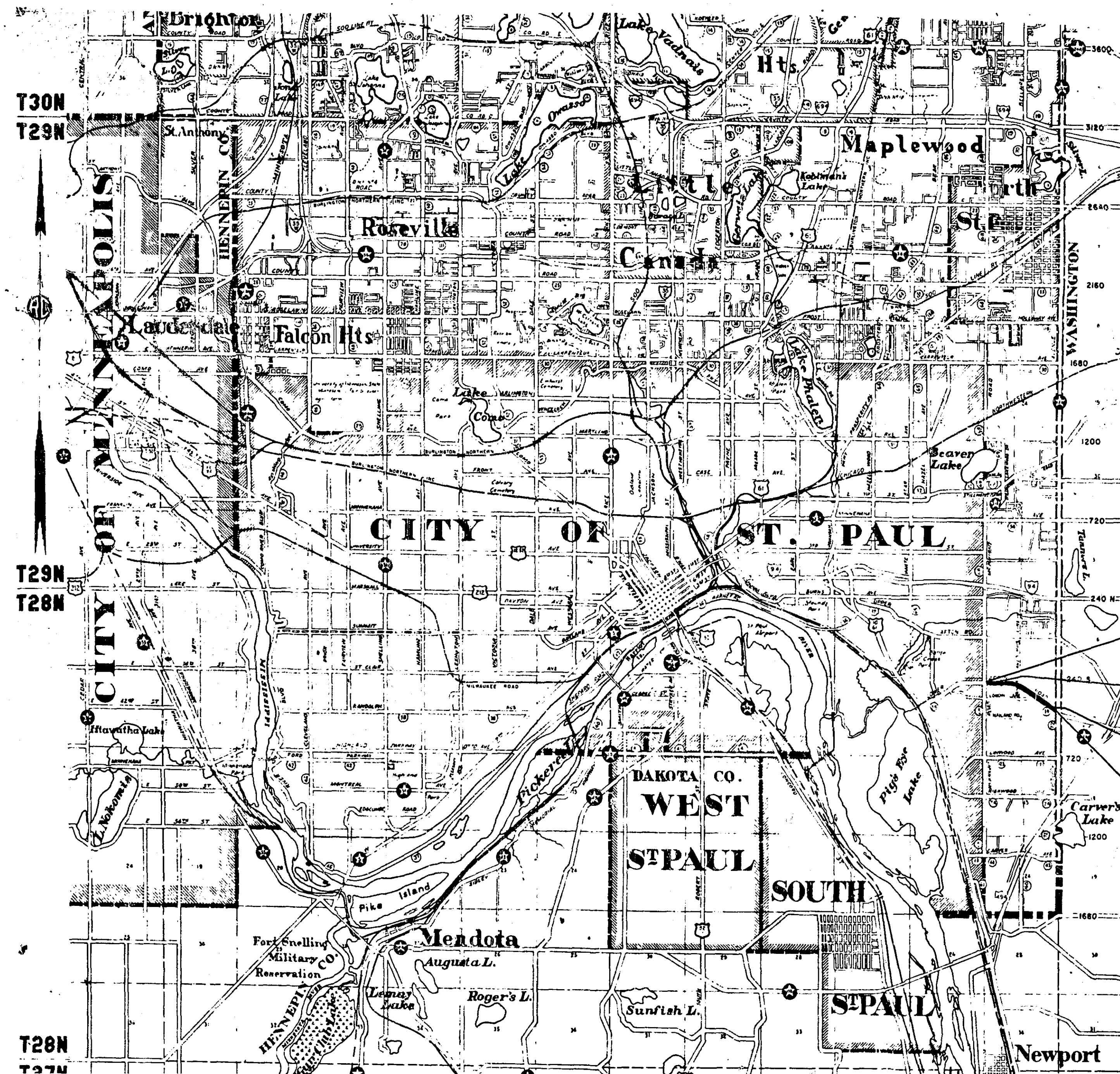
S.A.P. NO. 62-639-04
ACCOUNT NO. 47286

TRAFFIC VOLUME

	ADT	1982	2002
LOWER AFTON ROAD		4800	8000

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES & TYPICAL SECTIONS
3-4	PLAN SHEETS



BEGIN OVERLAY
STA. 56+00

BEGIN BIKEWAY
STA. 69+24

END BIKEWAY
STA. 113+00

END OVERLAY
STA. 113+63

DESIGN SQUAD KEN PETERSON & B.J. DATE 12-4-82
DRAWN BY B.J. & B. OLSEN DATE 12-6-82
CHECKED BY _____ DATE _____

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 12-15-82 REG. NO. 13501 ENGR Larry F. Johnson

RECOMMENDED FOR APPROVAL P.H.K. DATE 12-20-82

RECOMMENDED FOR APPROVAL Kenneth H. Haidar DATE 12-21-82

RECOMMENDED FOR APPROVAL W.D.H. DATE 12-20-82

APPROVED Kenneth H. Haidar DATE 3/28/83

RECOMMENDED FOR APPROVAL M.D.H. DATE 12-17-82

APPROVED Kenneth H. Haidar DATE 1/25/83

RECOMMENDED FOR APPROVAL P.H.K. DATE 12-17-82

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL _____ DATE _____

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL W.D.H. DATE 12-17-82

RECOMMENDED FOR APPROVAL Robert O. O'Connell DATE 2-24-83

APPROVED W.D.H. DATE 12-15-82

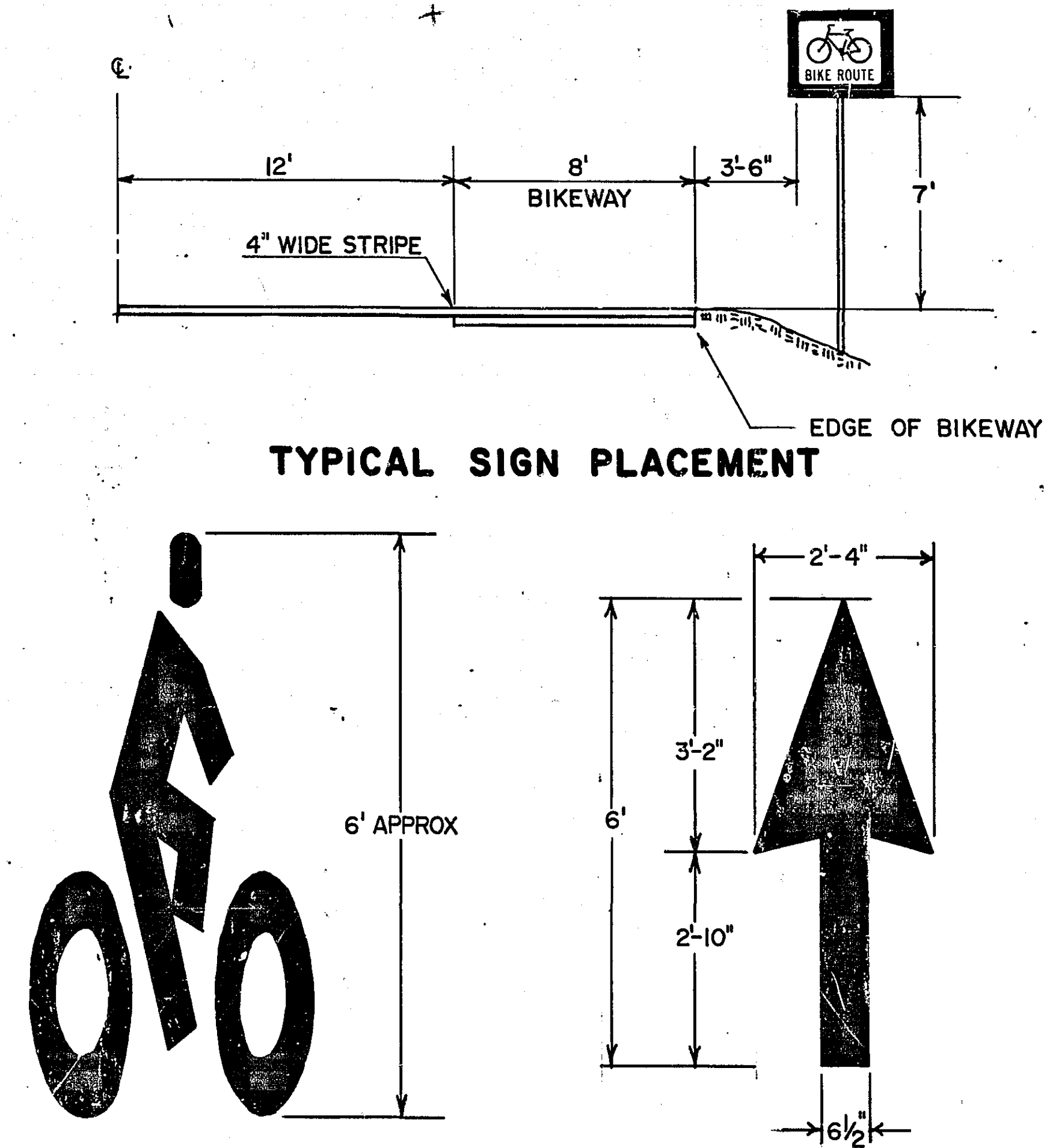
RECOMMENDED FOR APPROVAL _____ DATE 2/22/83

APPROVAL W.D.H. DATE 2/24/83

PLAN REVISIONS		
DATE	SHEET NO.	BY

THE 1978 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

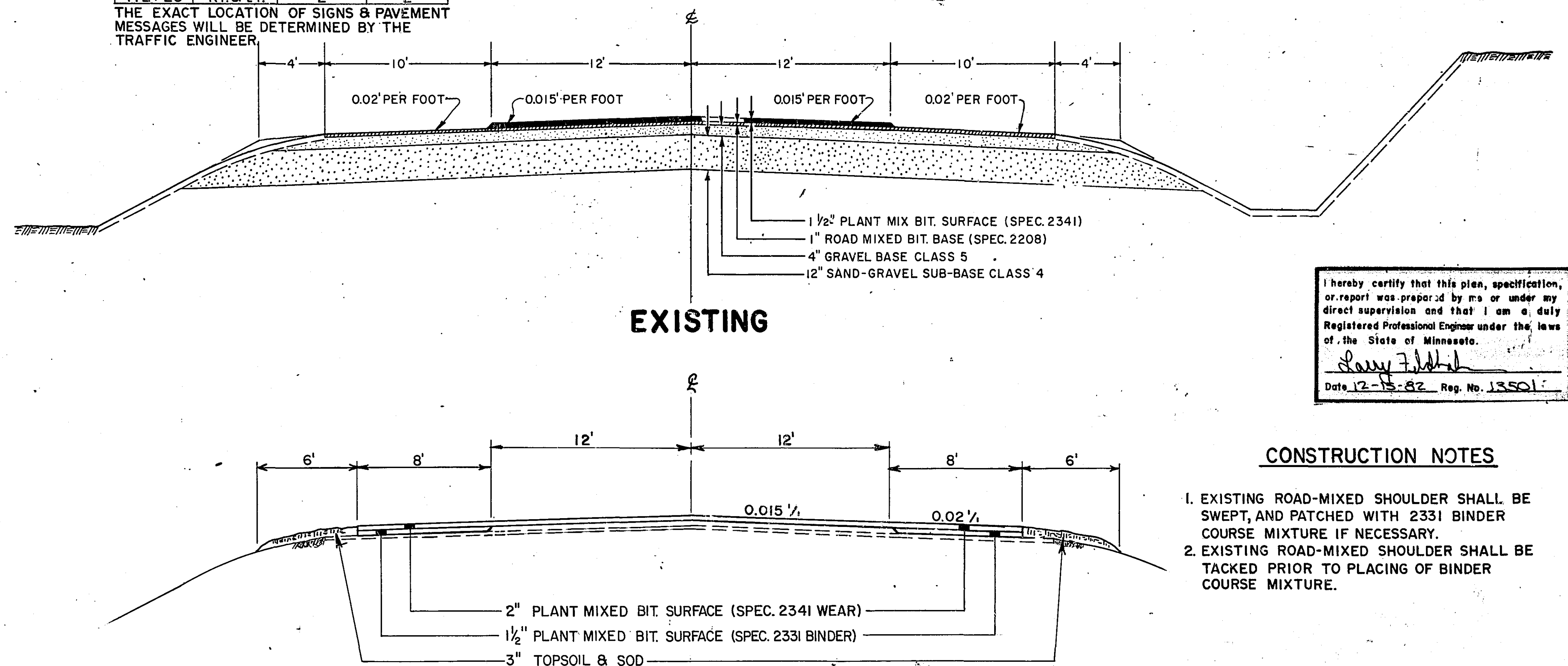
STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL QUANTITIES
BIKEWAY : PARTICIPATING				
2021.501	MOBILIZATION	LUMP SUM	1	
2105.525	TOPSOIL BORROW	C.Y.	642	
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	33	
2331.510	BINDER COURSE MIXTURE	TON	716	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	53	
2341.508	WEARING COURSE MIXTURE	TON	955	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	790	
2575.505	SODDING	S.Y.	5918	
2575.531	COMMERCIAL FERTILIZER ANALYSIS 12-12-12	TON	0.02	
BITUMINOUS OVERLAY : NON-PARTICIPATING				
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	113	
2341.508	WEARING COURSE MIXTURE	TON	2048	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	768	
PAVEMENT STRIPING : PARTICIPATING				
564.603	4" WIDE EDGE LINES	L.F.	8800	
564.602	PAVEMENT MESSAGES	EACH	10	
664.602	BICYCLE ROUTE SIGNS	EACH	10	



TYPICAL PAVEMENT MESSAGES

SIGN & PAVEMENT MESSAGE LOCATION CHART			
STATION	LOCATION	SIGN D11-1	MESSAGE
74+50	RT. & LT.	2	2
82+50	RT. & LT.	2	2
92+25	LT.	1	1
93+75	RT.	1	1
102+00	RT. & LT.	2	2
112+25	RT. & LT.	2	2

THE EXACT LOCATION OF SIGNS & PAVEMENT MESSAGES WILL BE DETERMINED BY THE TRAFFIC ENGINEER.



PROPOSED

STANDARD DETAIL PLATES	
0003A	SPECIFICATION REFERENCE TO STANDARD PLATES
8000H	STANDARD BARRICADES

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
John J. H. H.
Date 12-15-82 Reg. No. 13501

CONSTRUCTION NOTES

- EXISTING ROAD-MIXED SHOULDER SHALL BE SWEEPED, AND PATCHED WITH 2331 BINDER COURSE MIXTURE IF NECESSARY.
- EXISTING ROAD-MIXED SHOULDER SHALL BE TACKED PRIOR TO PLACING OF BINDER COURSE MIXTURE.

