

MINNESOTA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR TRAFFIC CONTROL SIGNAL SYSTEM

TRUNK HIGHWAY NO. 242 = 242

AT THE INTERSECTION OF T.H. 242 & C.S.A.H. 7
IN ANOKA COUNTY

MINNESOTA PROJECT

STATE PROJECT NO. 0212-19

SPECIFICATIONS

THE MINNESOTA HIGHWAY DEPARTMENT "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JANUARY 1, 1972 AS AMENDED BY "SUPPLEMENTAL SPECIFICATIONS" DATED APRIL 1, 1976 SHALL GOVERN.

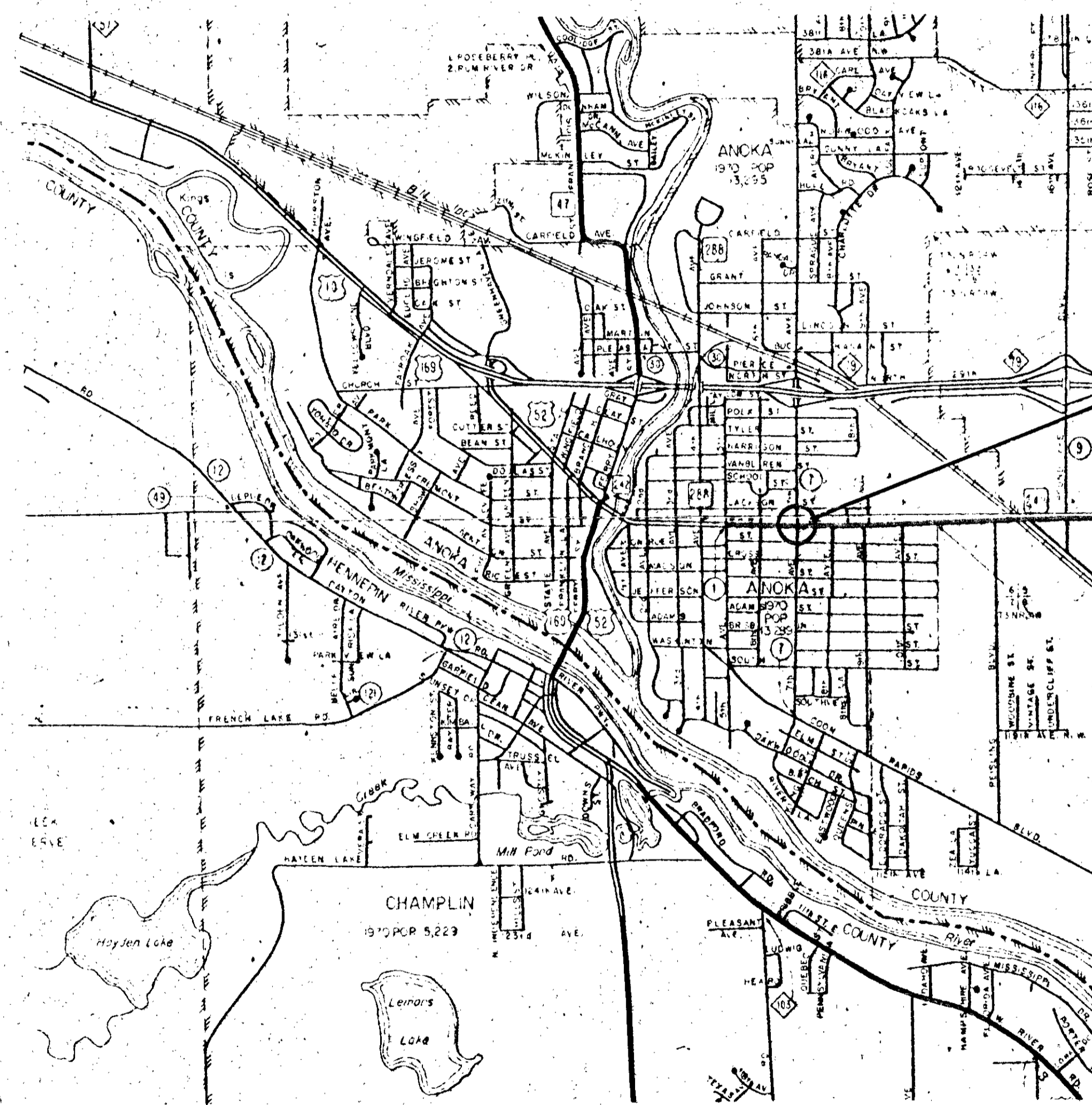
INDEX

- SHEET NO. 1. TITLE
2. UTILITIES IN PLACE
3. INTERSECTION LAYOUT
4. FIELD WIRING DIAGRAM
5. SIGNING DETAILS

THIS PLAN CONTAINS
5 SHEETS

DESIGN DESIGNATION (DOES NOT APPLY)

Design Speed _____ MPH
Based on _____ Sight Distance
Height of eye _____ Height of object _____
Design Speed not achieved at:
STA. _____ TO STA. _____ MPH
STA. _____ TO STA. _____ MPH
ADT (CURRENT YEAR) _____ = _____
ADT (FUTURE YEAR) _____ = _____
DHV (DESIGN HOUR VOLUME) _____ = _____
D (DIRECTIONAL DISTRIBUTION) _____ %
T (HEAVY COMMERCIAL) _____ %

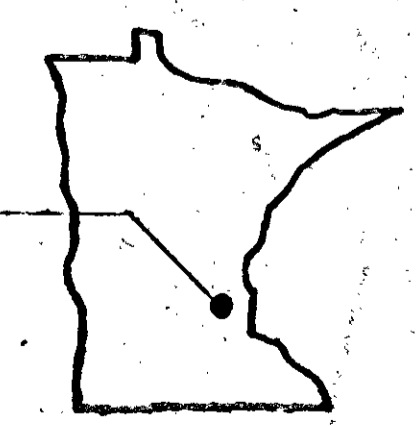


S.P. 0212-19

I.D. No. 02030242*000710*

Virginia R. ...
Approved: 1-5-1977

Right of Way Approval: *R. L. Brown* 1-4-1977
DIRECTOR OF RIGHT OF WAY OPERATIONS
Recommended for Approval: _____ MUNICIPALITY TITLE 19____
Recommended for Approval: _____ MUNICIPALITY TITLE 19____
Recommended for Approval: _____ COUNTY TITLE 19____
Recommended for Approval: _____ 19____
Recommended for Approval: _____ 19____
Recommended for Approval: *Dennis R. G. ...* 10-19-76
DISTRICT ENGINEER
Recommended for Approval: *...* 11-3-1976
TRAFFIC ENGINEER
Recommended for Approval: *...* 1-4-1977
PLANS ENGINEER
Recommended for Approval: _____ DESIGN ENGINEER 19____
Approved: 1-5-1977 *...*
Director, Design Services



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.
Dennis R. G. ...
DATE: 10/13/76 REG. NO. 10792
DESIGN SQUAD: R. A. MINETOR

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED
DIVISION ADMINISTRATOR DATE

ABBREVIATIONS

EQUIPMENT AND INDICATIONS

- RED - RED
- YEL - YELLOW
- GRN - GREEN
- WLK - WALK
- NEU - NEUTRAL
- DWK - DON'T WALK
- LUM - LUMINAIRE
- DNL - DOWNLIGHT
- SW - SWITCH
- SWD - SWITCHED
- CH.SW - CHECK SWITCH
- H.H. - HANDHOLE
- GR.R. - GROUND ROD
- SERV - SERVICE
- SP - SPLICE
- THA - THRU ARROW
- LTA - LEFT TURN ARROW
- RTA - RIGHT TURN ARROW
- TRA - THRU AND RIGHT ARROW
- RTHA(eg) - THRU ARROW-RED
- GLTA(eg) - LEFT TURN ARROW-GREEN
- YRTA(eg) - RIGHT TURN ARROW-YELLOW
- PA1(eg) - PEDESTRIAN INDICATIONS-PHASE "A"
- PBB2(eg) - PUSH BUTTON-PHASE "B"
- C3(eg) - SIGNAL HEADS-PHASE "C"
- DA(eg) - DETECTOR-PHASE "A"
- P.E.C. - PHOTOELECTRIC CELL
- ST.LHT. - STREET LIGHT
- S.O.P. - SOURCE OF POWER
- EQG - EQUIPMENT GROUND
- SPR - SPARE CONDUCTOR
- J.B. - JUNCTION BOX

CONDUCTOR COLOR CODE

- R - RED
- O - ORANGE
- BL - BLUE
- WH - WHITE
- R/BLK - RED WITH BLACK TRACER
- O/BLK - ORANGE WITH BLACK TRACER
- BL/BLK - BLUE WITH BLACK TRACER
- WH/BLK - WHITE WITH BLACK TRACER
- BLK - BLACK
- BLK/WH - BLACK WITH WHITE TRACER
- G/BLK - GREEN WITH BLACK TRACER
- G - GREEN
- CLR - CLEAR
- BR.GR. - BARE GROUND

LEGEND OF SYMBOLS

- SIGNAL BASE No. _____
- SIGNAL FACE No. _____
- LUMINAIRE No. _____
- CONTROLLER AND CABINET
- CONTROLLER AND CABINET-IN PLACE
- HANDHOLE
- HANDHOLE - IN PLACE
- RIGID STEEL CONDUIT (R.S.C.)
- RIGID STEEL CONDUIT (R.S.C.) - IN PLACE
- SIGNAL FACE
- SIGNAL FACE WITH BACKGROUND SHIELD
- SIGNAL FACE - IN PLACE
- PEDESTRIAN INDICATIONS
- PEDESTRIAN INDICATIONS-IN PLACE
- PEDESTRIAN PUSH BUTTON ON PEDESTAL OR POLE
- PEDESTRIAN PUSH BUTTON STATION
- TRAFFIC SIGNAL PEDESTAL
- TRAFFIC SIGNAL PEDESTAL - IN PLACE
- TRAFFIC SIGNAL POLE AND MAST ARM
- TRAFFIC SIGNAL POLE AND MAST ARM - IN PLACE
- STREET LIGHT POLE AND LUMINAIRE
- STREET LIGHT POLE AND LUMINAIRE - IN PLACE
- MAST ARM AND LUMINAIRE
- MAST ARM AND LUMINAIRE - IN PLACE
- WOOD POLE
- WOOD POLE - IN PLACE
- SOURCE OF POWER
- RAILROAD SIGNAL - IN PLACE
- RIGHT OF WAY LINE
- CENTER LINE
- EDGE OF ROADWAY
- SHOULDER LINE
- CURB LINE
- STOP BAR

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT....

PLATE NO.	DESCRIPTION
* 8110 B	TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)
8111 A	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED)
8112 B	PEDESTAL FOUNDATION
8113 B	MAGNETIC VEHICLE DETECTOR INSTALLATION
* 8115 B	PEDESTRIAN PUSH BUTTON INSTALLATION
8116 C	STEEL GUARD POST
* 8117 E	PRECAST CONCRETE HANDHOLE
* 8118 B	SERVICE EQUIPMENT & POLE, TRAFFIC CONTROL SIGNALS
* 8119 B	GROUND MOUNTED CABINET FOUNDATION
* 8120 D	MAST ARM POLE FOUNDATION
8122 B	PEDESTAL & PEDESTAL BASE
* 8123 A	POLE & MAST ARM (LUMINAIRE & TRAFFIC LIGHTS)
* 8124 B	SIGNAL HEAD MOUNTS
8125 A	SWING-AWAY HINGE (FOR TRAFFIC SIGNAL ARM MAST)
* 8130 B	SAW CUT LOOP DETECTORS

* STANDARD PLATES APPLICABLE TO THIS PROJECT.

ESTIMATED QUANTITIES

PROJECT NO.	ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
0212-19	2565.501	FULL-TRAFFIC ACTUATED TRAFFIC CONTROL SYSTEM	SIGNAL SYSTEM	1 ✓
0212-19	2564.531	FURNISH AND INSTALL SIGN PANELS, TYPE "D"	SQUARE FOOT	22.0 ✓

PROJECT LOCATION
ANOKA COUNTY
MHD DISTRICT 5

REVISIONS		
DATE	SHEET NO.	APPROVED BY