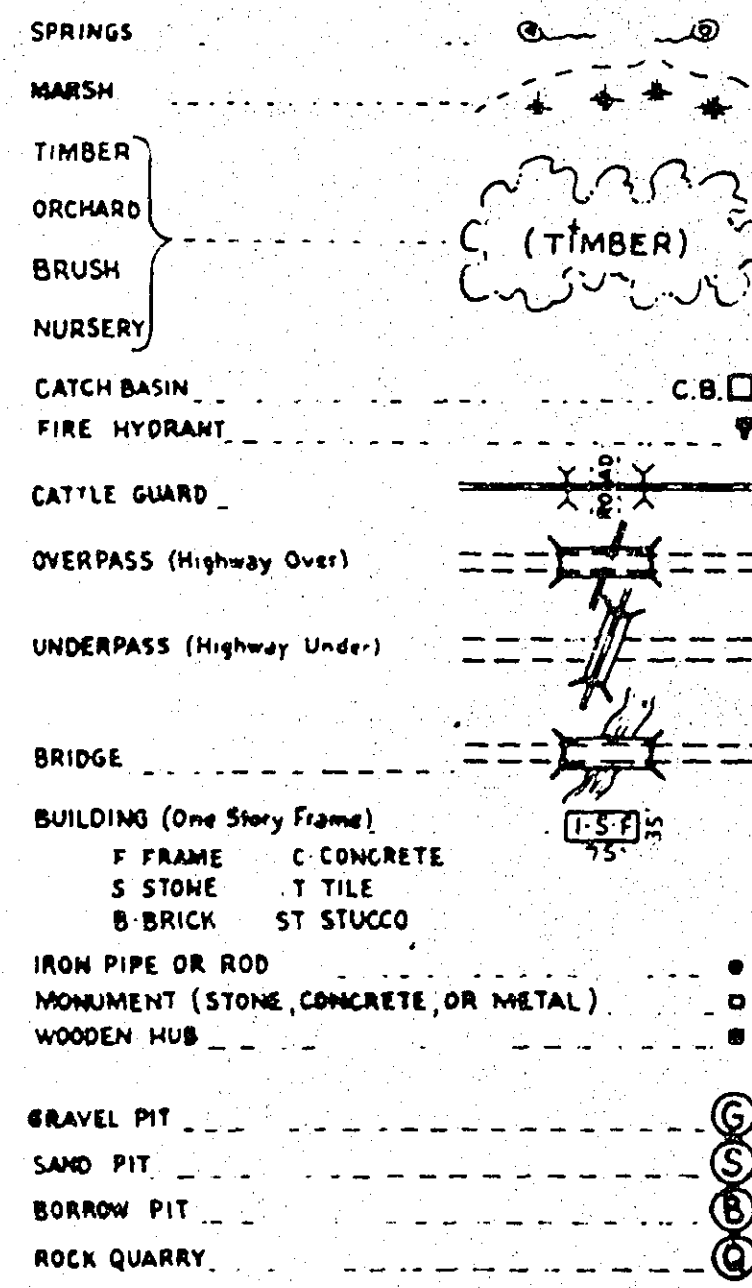
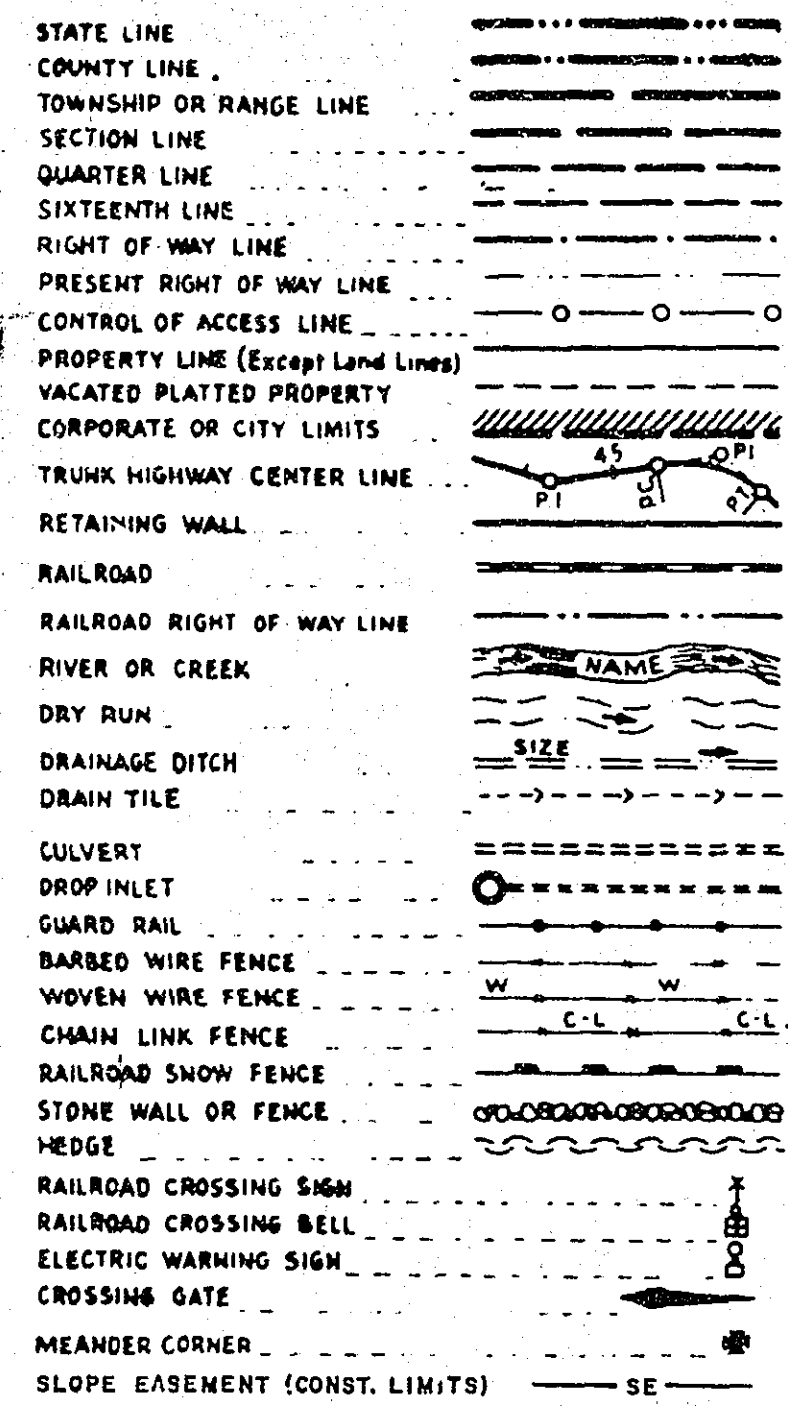
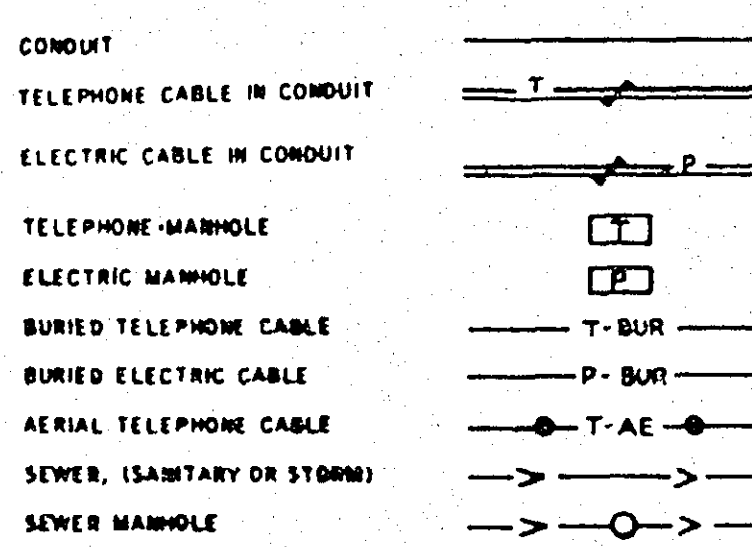
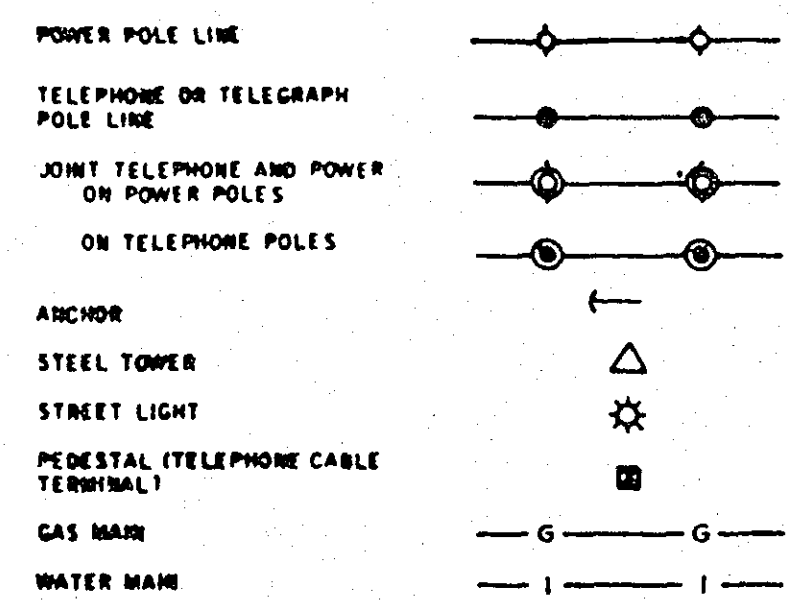


PLANS SYMBOLS



UTILITIES SYMBOLS



PIT DATA

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

THE 1983 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ABBREVIATIONS

EQUIPMENT & INDICATIONS

- RED - RED
- YEL - YELLOW
- GRN - GREEN
- LTA - LEFT TURN ARROW
- THA - THRU ARROW
- RTA - RIGHT TURN ARROW
- TRA - THRU AND RIGHT ARROW
- WLK - WALK
- NEU - NEUTRAL
- DWK - DON'T WALK
- SW - SWITCH
- SWD - SWITCHED
- LUM - LUMINAIRE
- P2-1(eg) - PEDESTRIAN INDICATION - "2" PHASE
- PB2-2(eg) - PUSH BUTTON - "4" PHASE
- 2-2(eg) - SIGNAL HEAD - "2" PHASE
- D2-4(eg) - DETECTOR - "2" PHASE
- H.H. - HANDHOLE
- GR.R. - GROUND ROD
- SERV. - SERVICE
- EVP - EMERGENCY VEHICLE PRE-EMPTION

- DNL - DOWNLIGHT
- PE.C. - PHOTOELECTRIC CELL
- ST. LHT. - STREET LIGHT
- CH. - CHECK
- S.O.P. - SOURCE OF POWER
- EQ.G. - EQUIPMENT GROUND
- SPR - SPARE CONDUCTOR

COLOR CODING OF CONDUCTOR

- 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

CONDUCTOR COLOR CODING

R	OR	O
BL	WH	YEL
R/BLK	O/BLK	BL/BLK
WH/BLK	BLK	BLK/WH
G/BLK	G	



COUNTY RD. B2 & FAIRVIEW AVE.

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLAN FOR TRAFFIC SIGNAL REVISIONS AT THE INTERSECTION OF

COUNTY RD. B2 & FAIRVIEW AVE.
CO. PROJ. NO. TRF. 507-T31

INDEX

SHEET NO.	DESCRIPTION
1	TITLE
2	INTERSECTION LAYOUT
3-5	INFORMATION

STATEMENT OF ESTIMATED QUANTITIES

PROJECT NO.	ITEM NO.	ITEM	UNIT	QUANT.
TRF 507-T31	565.604	EMERGENCY VEHICLE PRE-EMPTION	SYSTEM	1

DESIGN SQUAD R. Weber DATE 12-27-84
 DRAWN BY _____ DATE _____
 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.

RECOMMENDED FOR APPROVAL P.K. DATE 1-15-85 RECOMMENDED FOR APPROVAL Wm. J. Swartz DATE 1-22-85
 TRAFFIC ENGR. COUNTY ENGINEER

RECOMMENDED FOR APPROVAL D.H. DATE 1-15-85 APPROVED Wm. J. Swartz DATE 2-25-85
 ENV. ENGR. CHAIRMAN OF THE RAMSEY COUNTY BOARD

RECOMMENDED FOR APPROVAL M.S. DATE 1-15-85 APPROVED Wm. J. Swartz DATE 1-15-85
 MANT. ENGR. CITY OF ROSEVILLE

RECOMMENDED FOR APPROVAL P.K. - RM DATE 1-15-85 APPROVED _____ DATE _____
 CONST. ENGR.

RECOMMENDED FOR APPROVAL _____ DATE _____
 DESIGN ENGR.

RECOMMENDED FOR APPROVAL Wm. J. Swartz DATE 1-15-85
 CO. ENGR.

APPROVED Wm. J. Swartz DATE 1-16-85
 COORDINATING ENGR.

PLAN REVISIONS

DATE	SHEET NO.	BY

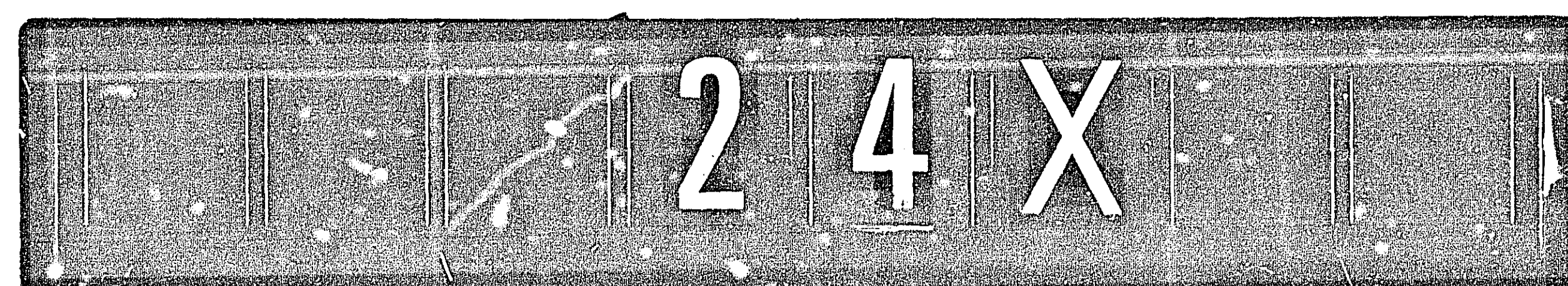
CO. PROJ. NO. TRF 507-T31

Sheet No. 1 of 5 Sheets

23-133

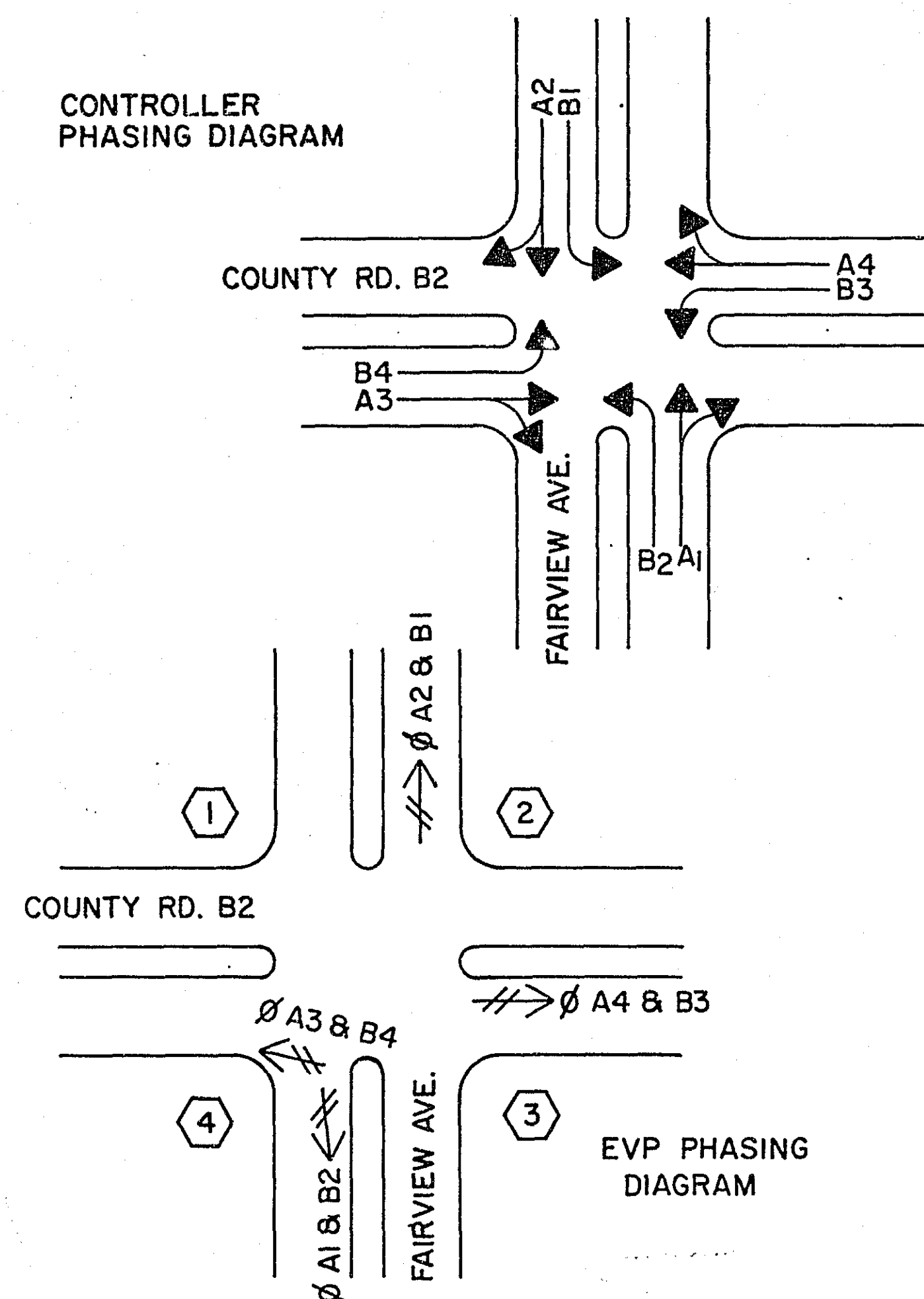
23-133 County Rd B2 & Fairview
Co. Proj. No. TRF 507-T31

1-5



LEGEND OF SYMBOLS

SIGNAL BASE No.	5
SIGNAL FACE No.	4-2
CONTROLLER AND CABINET	
CONTROLLER AND CABINET-INPLACE	
HANDHOLE	
HANDHOLE-INPLACE	
RIGID STEEL CONDUIT (R.S.C.)	
RIGID STEEL CONDUIT (R.S.C.)-INPLACE	
SIGNAL FACE	
SIGNAL FACE WITH BACKGROUND SHIELD	
SIGNAL FACE-INPLACE	
PEDESTRIAN INDICATIONS	
PEDESTRIAN INDICATIONS-INPLACE	
PEDESTRIAN PUSH BUTTON ON PEDESTAL OR POLE	
PEDESTRIAN PUSH BUTTON STATION	
TRAFFIC SIGNAL PEDESTAL	
TRAFFIC SIGNAL PEDESTAL-INPLACE	
TRAFFIC SIGNAL POLE AND MAST ARM	
TRAFFIC SIGNAL POLE AND MAST ARM-INPLACE	
MAST ARM AND LUMINAIRE	
MAST ARM AND LUMINAIRE-INPLACE	
WOOD POLE	
WOOD POLE-INPLACE	
SOURCE OF POWER	
EMERGENCY VEHICLE PRE-EMPTION DETECTOR LOCATION	

CONTROLLER
PHASING DIAGRAMEVP PHASING
DIAGRAM

SIGNAL INDICATION CHART (INPLACE)						
FACE	PHASE	FLASH	INDICATION SIZE			
			R	Y	G	← →
A1-1	A1	R	12"	12"	12"	— —
A1-2	A1	R	12"	12"	12"	— —
A2-1	A2	R	12"	12"	12"	— —
A2-2	A2	R	12"	12"	12"	— —
A3-1	A3	R	12"	12"	12"	— —
A3-2	A3	R	12"	12"	12"	— —
A4-1	A4	R	12"	12"	12"	— —
A4-2	A4	R	12"	12"	12"	— —
* B1-1	B1	R	12"	12"	—	12"
* B2-1	B2	R	12"	12"	—	12"
* B3-1	B3	R	12"	12"	—	12"
* B4-1	B4	R	12"	12"	—	12"

* SPECIAL SIGNAL FACES

CONTROLLER CABINET
WIRING REVISION

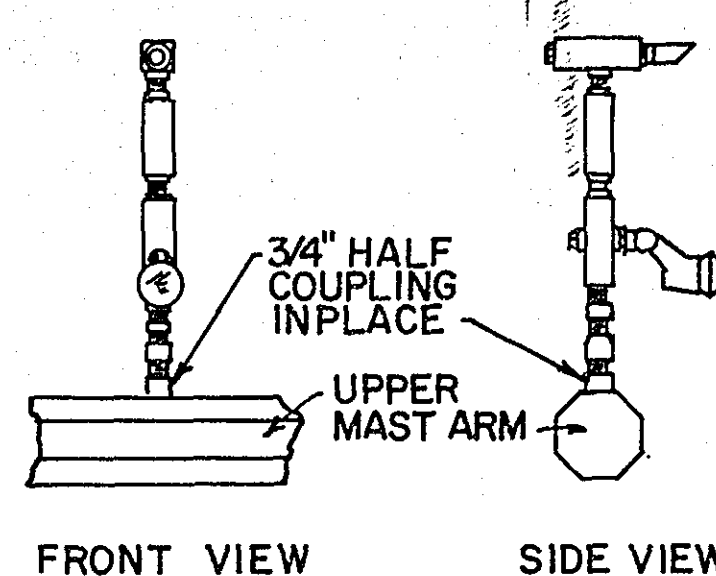
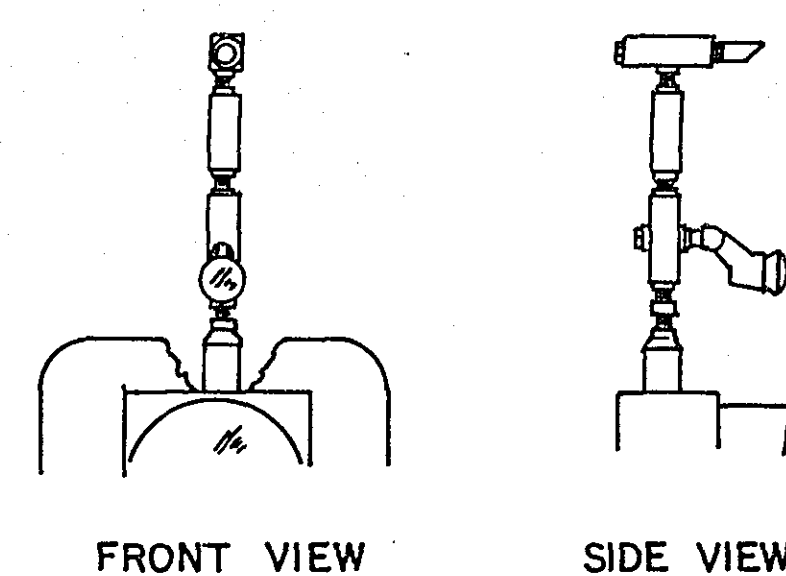
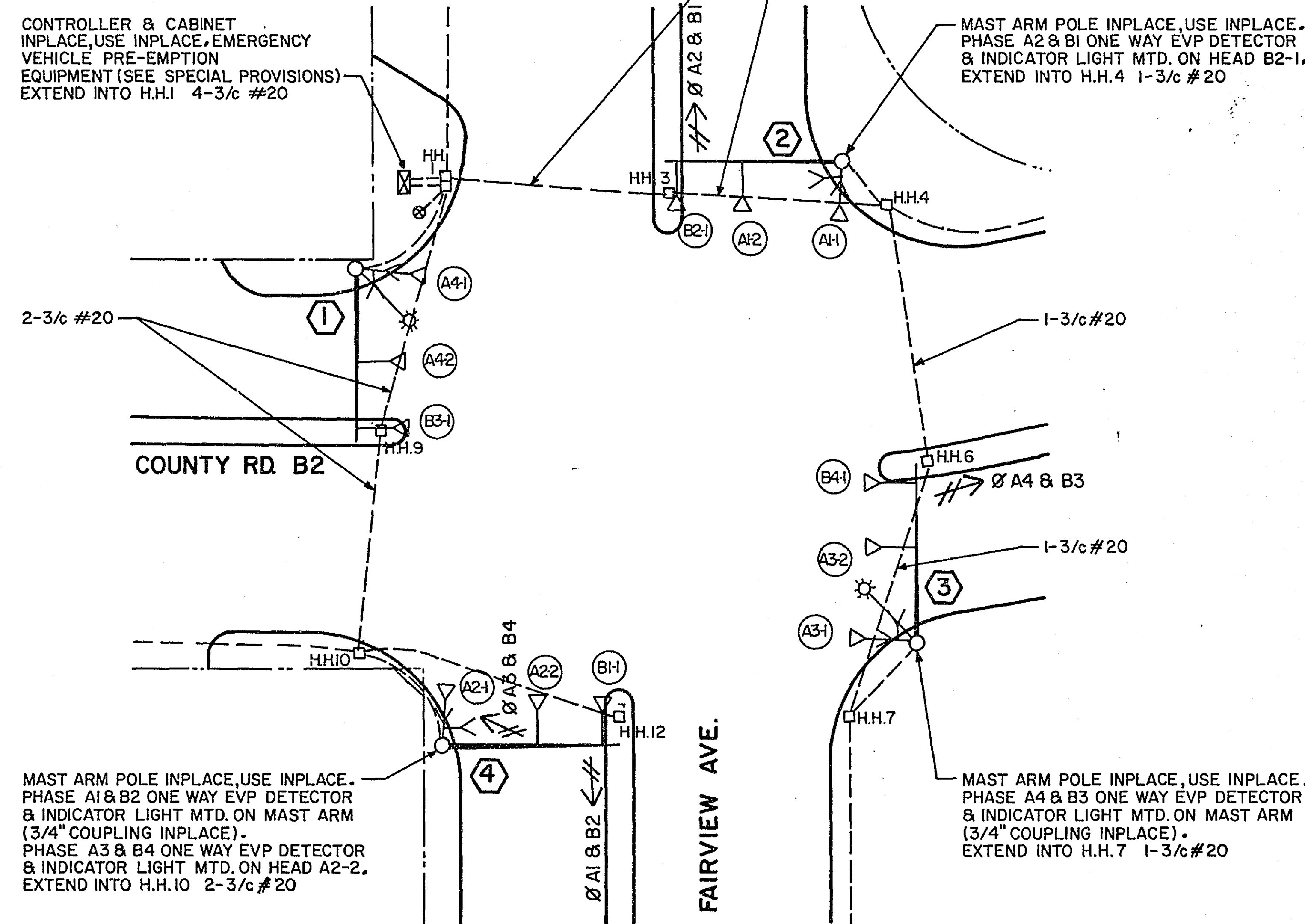
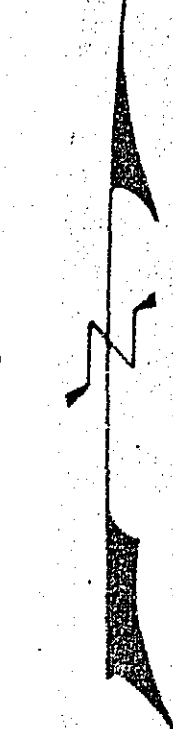
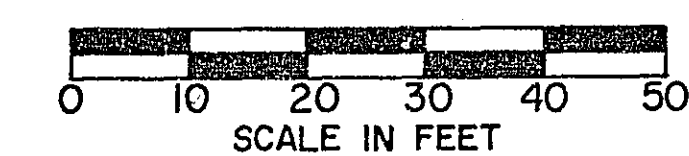
7	INPLACE CABLE	RED A3-1	
		YEL A3-1	
		GRN A3-1	
		NEU A3-1, A3-2	
		RED A3-2	
		YEL A3-2	
		GRN A3-2	
		NEU PAI-2 EVP LHT	
		WLK PAI-2	
		DWK PAI-2	
		EVP LHT ØA4 & B3	③
		EQG	
11	INPLACE CABLE	RED A1-1	
		YEL A1-1	
		GRN A1-1	
		NEU A1-1, A1-2	
		RED A1-2	
		YEL A1-2	
		GRN A1-2	
		NEU PAI-1, EVP LHT	
		WLK PAI-1	
		DWK PAI-1	
		EVP LHT ØA2 & B1	②
		EQG	
22	INPLACE CABLE	RED A2-1	
		YEL A2-1	
		GRN A2-1	
		NEU A2-1, A2-2	
		RED A2-2	
		YEL A2-2	
		GRN A2-2	
		NEU PA2-1, EVP LHT	
		WLK PA2-1	
		DWK PA2-1	
		EVP LHT ØA1 & B2	④
		EQG	
27	INPLACE CABLE	RED B1-1	
		YEL B1-1	
		LTA B1-1	
		NEU B1-1, B3-1	
		RED B3-1	
		YEL B3-1	
		LTA B3-1	
		NEU PA3-2, EVP LHT	
		WLK PA3-2	
		DWK PA3-2	
		EVP LHT ØA3 & B4	④
		EQG	

31 NEW CABLE EVP
3/c #20 CABLE ØA2 & B1 ②32 NEW CABLE EVP
3/c #20 CABLE ØA4 & B3 ③33 NEW CABLE EVP
3/c #20 CABLE ØA1 & B2 ④34 NEW CABLE EVP
3/c #20 CABLE ØA3 & B4 ④

SEE SHEETS 4 & 5 FOR INPLACE WIRING.

FIELD WIRING REVISIONS

7L	PAI-2 EVP LHT	③
11G	PAI-1 EVP LHT	②
22G	PA2-1 EVP LHT	④
27L	PA3-2 EVP LHT	④
31G	EVP CABLE ØA2 & B1	②
32L	EVP CABLE ØA4 & B3	③
33G	EVP CABLE ØA1 & B2	④
34G	EVP CABLE ØA3 & B4	④

LABEL CABLES IN HANDHOLES AS
DIRECTED BY ENGINEER.ONE WAY EVP DETECTOR & LIGHT MOUNTED
TOP UPPER MAST ARM - POLES 3 & 4ONE WAY EVP DETECTOR & LIGHT MOUNTED
TOP SIGNAL HEADS A2-2 & B2-1INTERSECTION LAYOUT
COUNTY RD. B2 & FAIRVIEW AVE.

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.

Date 1-15-85 Reg. No. 12703

CO. PROJ. NO. TRF. 507-T31

SHEET NO. 2 OF 5 SHEETS

23-133

23-133 County Rd B2 & Fairview
Co. Proj. No. Trf 507-T31

1-5

24X

DRAWING NUMBER

DRAWING NUMBER
23-133

DRAWING NUMBER

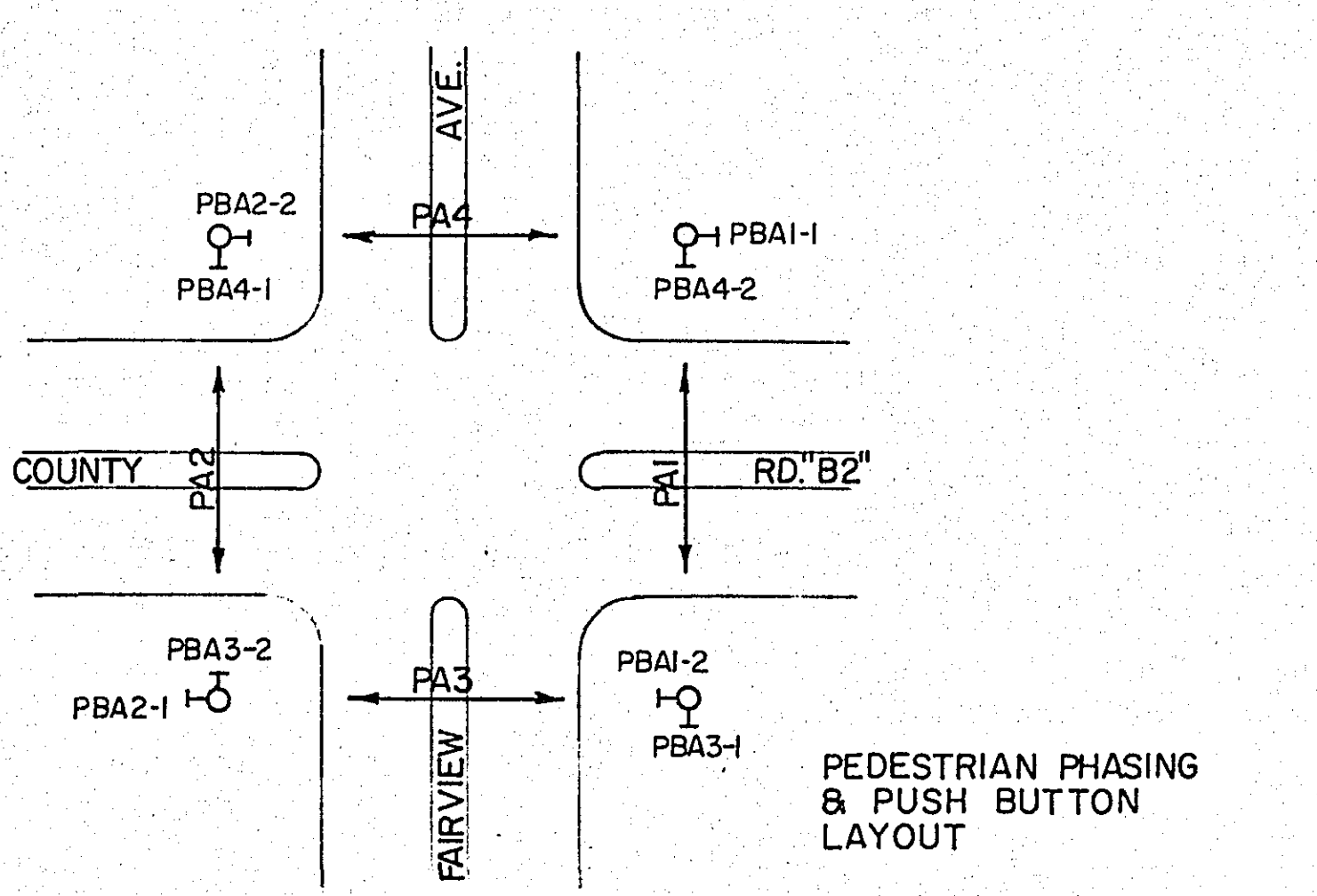
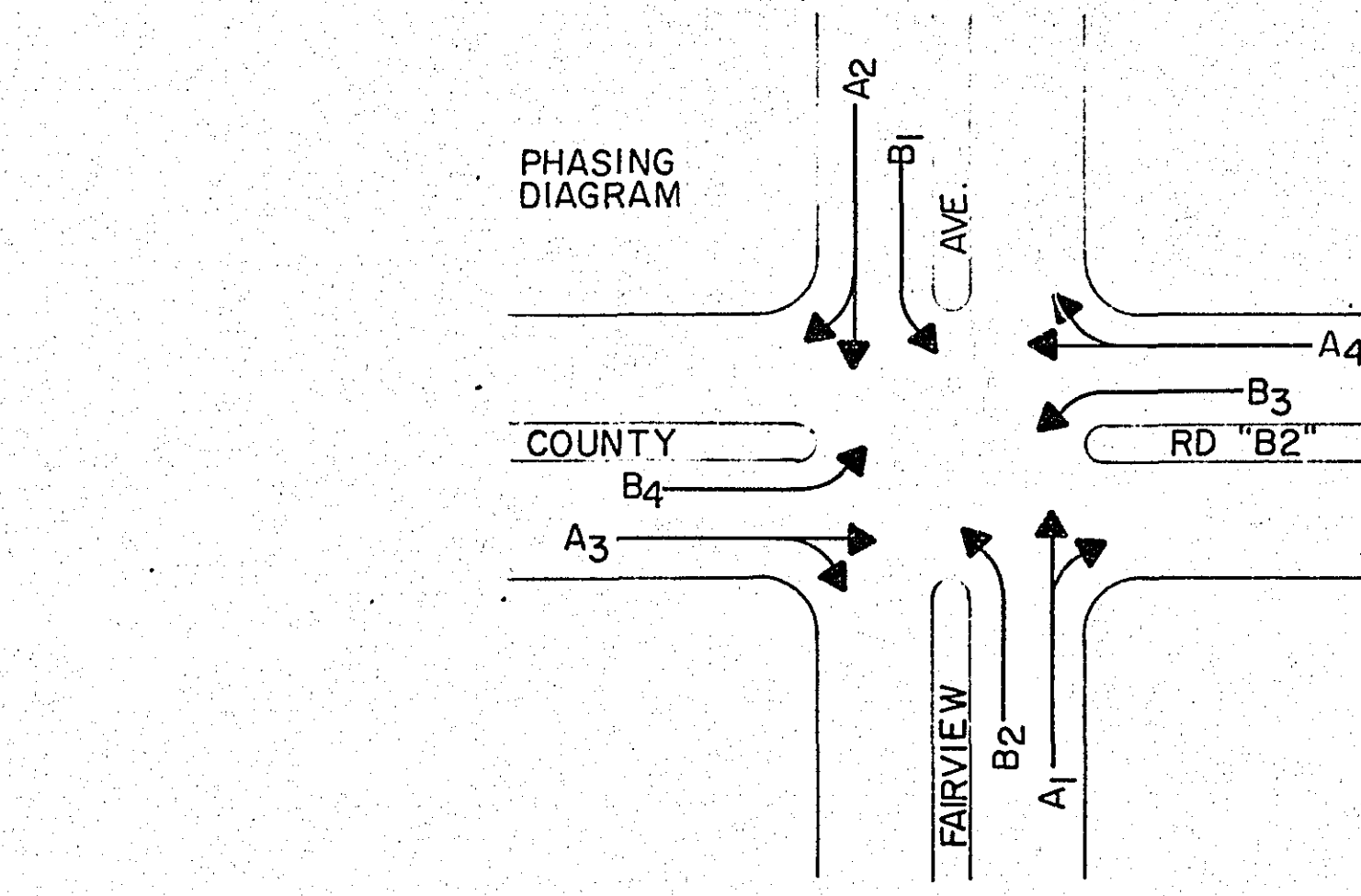
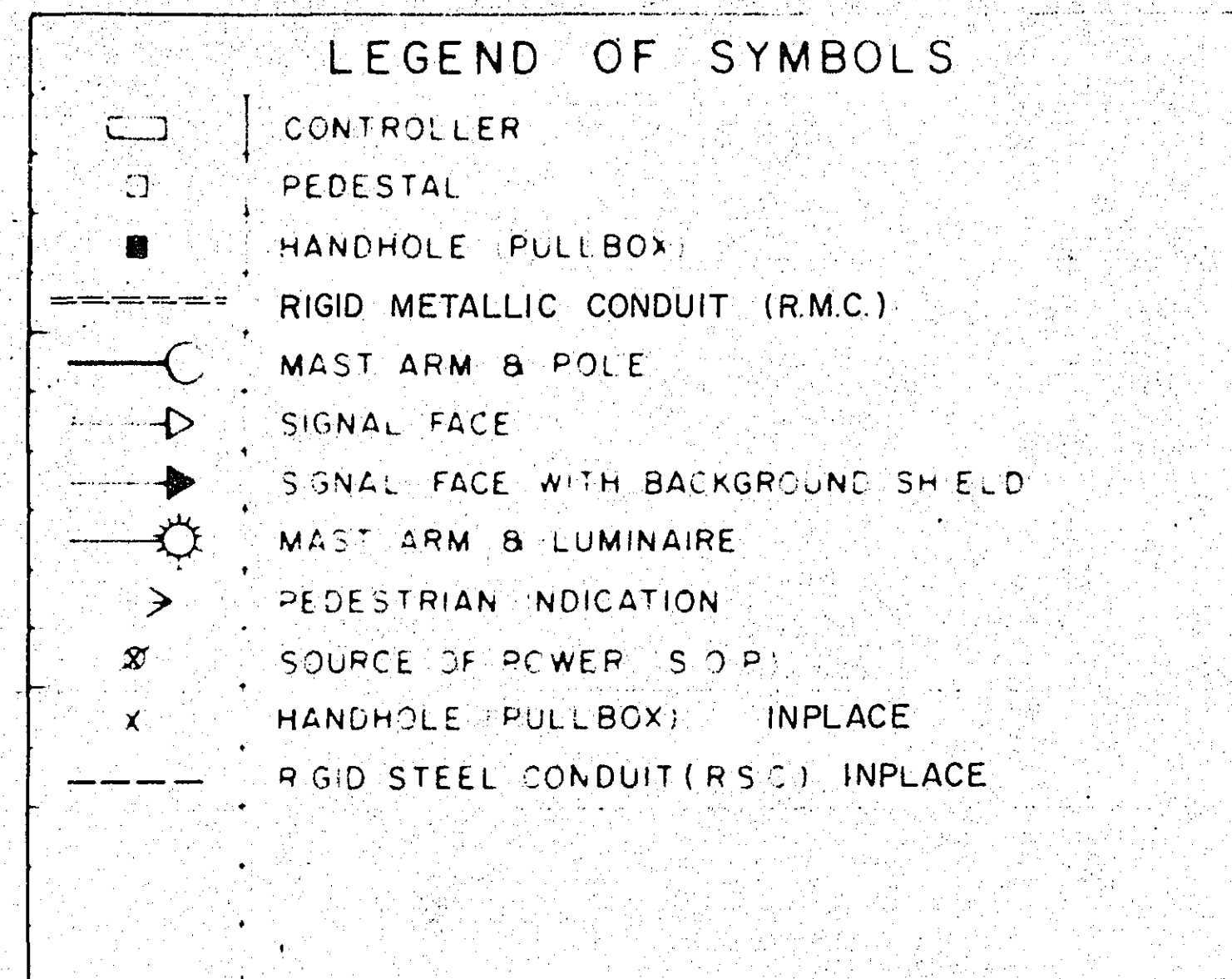
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDED BY NUMBER 075041
POSITION LOC. OF PLAN ON THIS SHEET

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDED BY NUMBER 075041
POSITION LOC. OF PLAN ON THIS SHEET

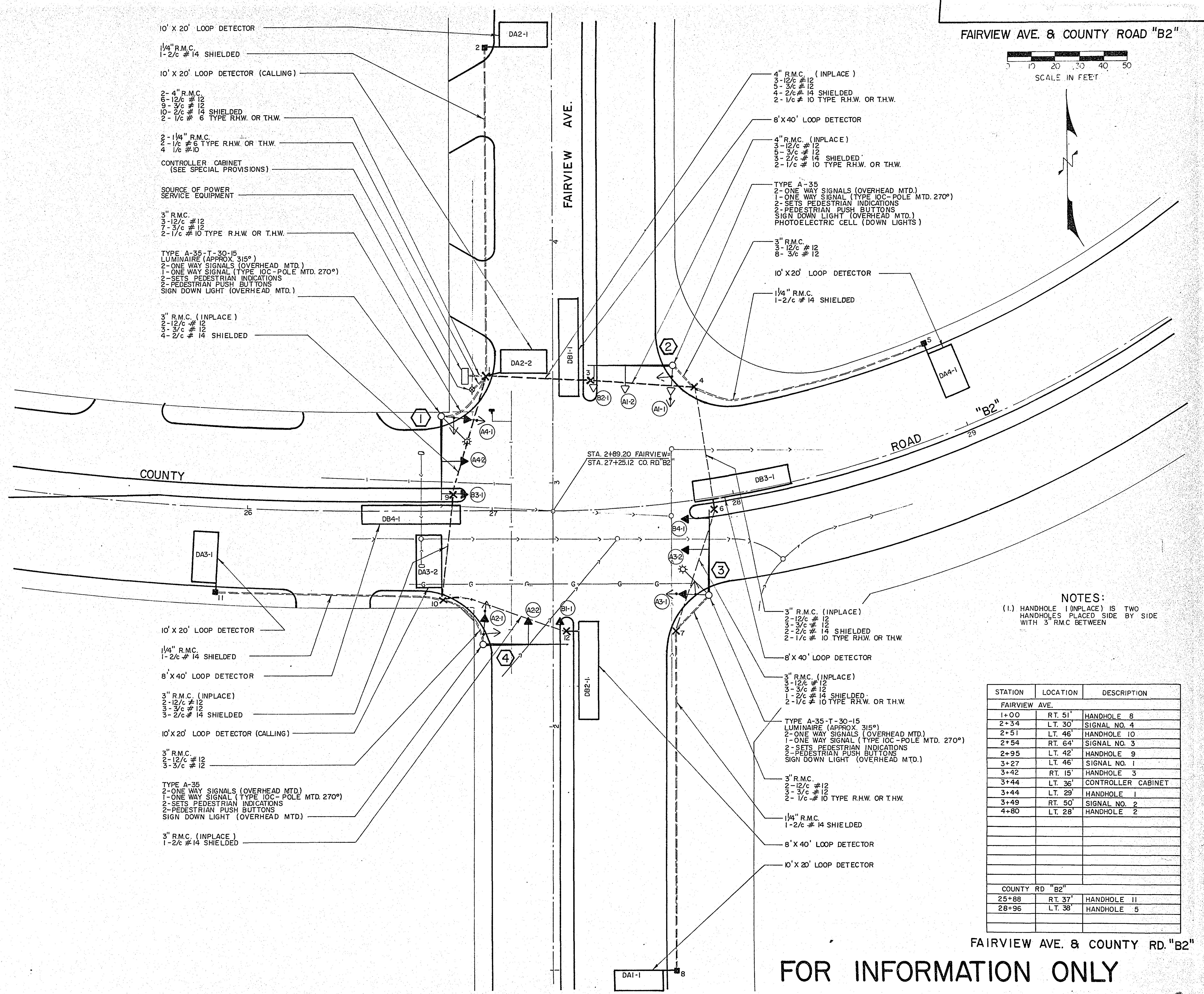
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RECORDED BY NUMBER 075041
POSITION LOC. OF PLAN ON THIS SHEET

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
RECORDED BY NUMBER 075041
POSITION LOC. OF PLAN ON THIS SHEET



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1-1	A1	R	12"	12"	12"	—	—	—
A1-2	A1	R	12"	12"	12"	—	—	—
A2-1	A2	R	12"	12"	12"	—	—	—
A2-2	A2	R	12"	12"	12"	—	—	—
A3-1	A3	R	12"	12"	12"	—	—	—
A3-2	A3	R	12"	12"	12"	—	—	—
A4-1	A4	R	12"	12"	12"	—	—	—
A4-2	A4	R	12"	12"	12"	—	—	—
* B1-1	B1	R	12"	12"	—	12"	—	—
* B2-1	B2	R	12"	12"	—	12"	—	—
* B3-1	B3	R	12"	12"	—	12"	—	—
* B4-1	B4	R	12"	12"	—	12"	—	—

* SEE SPECIAL PROVISIONS (SPECIAL SIGNAL FACES)



FAIRVIEW AVE. & COUNTY ROAD "B2"

SCALE IN FEET

0 10 20 30 40 50

NOTES:

(1) HANDHOLE (INPLACE) IS TWO HANDHOLES PLACED SIDE BY SIDE WITH 3' R.M.C. BETWEEN

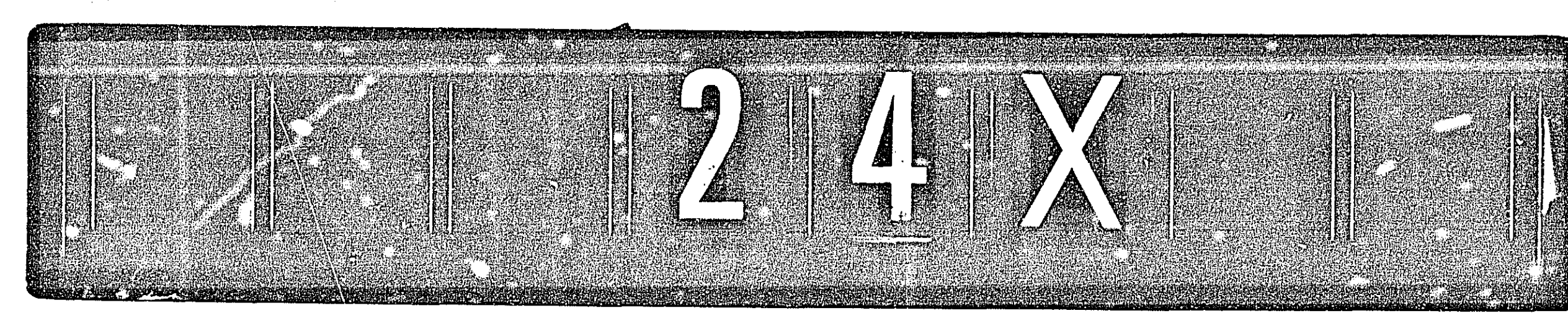
STATION	LOCATION	DESCRIPTION
FAIRVIEW AVE.		
1+00	RT. 51'	HANDHOLE 8
2+34	LT. 30'	SIGNAL NO. 4
2+51	LT. 46'	HANDHOLE 10
2+54	RT. 64'	SIGNAL NO. 3
2+95	LT. 42'	HANDHOLE 9
3+27	LT. 46'	SIGNAL NO. 1
3+42	RT. 15'	HANDHOLE 3
3+44	LT. 36'	CONTROLLER CABINET
3+44	LT. 29'	HANDHOLE 1
3+49	RT. 50'	SIGNAL NO. 2
4+80	LT. 28'	HANDHOLE 2
COUNTY RD "B2"		
25+88	RT. 37'	HANDHOLE 11
28+96	LT. 38'	HANDHOLE 5

FOR INFORMATION ONLY

CO. PROJ. NO. TRF 507-T31 SHEET NO. 3 OF 5 SHEETS

23-133 County Rd B2 + Fairview
Co. Proj. No. 507-T31

1-5



DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0254R
PERSON USE OF PRINT ON THIS LINE

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0254R
PERSON USE OF PRINT ON THIS LINE

DRAWING NUMBER
23-133

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0254R
PERSON USE OF PRINT ON THIS LINE

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 0254R
PERSON USE OF PRINT ON THIS LINE

CONTROLLER CABINET

SIGNAL SERVICE

BLK WH

DBI-1

BLK WH

DA4-1

BLK WH

DB3-1

BLK WH

DAI-1

BLK WH

A3-1

RED

A3-1

YEL

A3-1

GRN

A3-1

BLK

A3-2

WH

A3-2

BLK

A3-2

YEL

A3-2

GRN

A3-2

BLK

PAI-2

WH

PAI-2

BLK

PAI-2

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WH

PAI-2

BLK

FIELD WIRING DIAGRAM
FAIRVIEW AVE. & COUNTY RD."B2"

FOR INFORMATION ONLY

CO. PROJ. NO. TRF 507-T31

SHEET NO. 4 OF 5 SHEETS

23-133

23-133 County Rd B2+ Fairview
Co Proj No 507-731

1-5

24X



SHEET NO. 5 OF 5 SHEETS

23-133

1-5

2 4 X