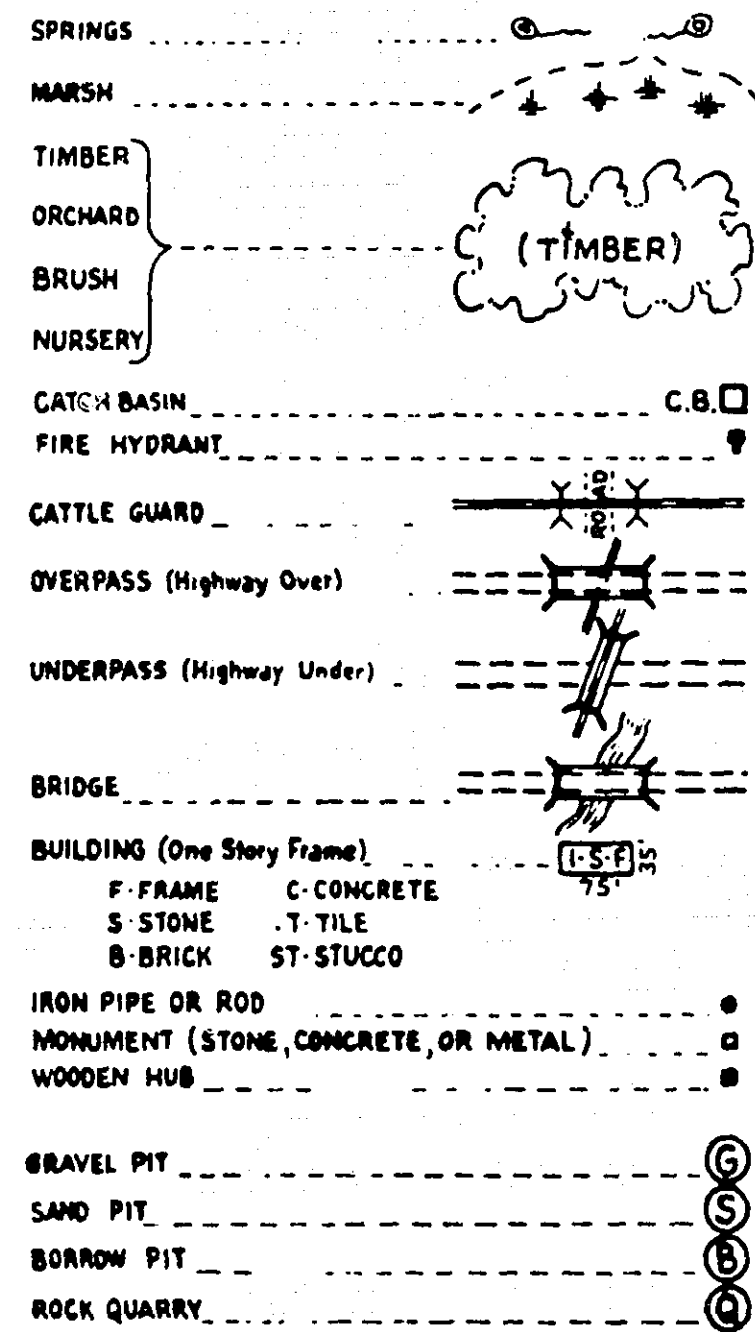
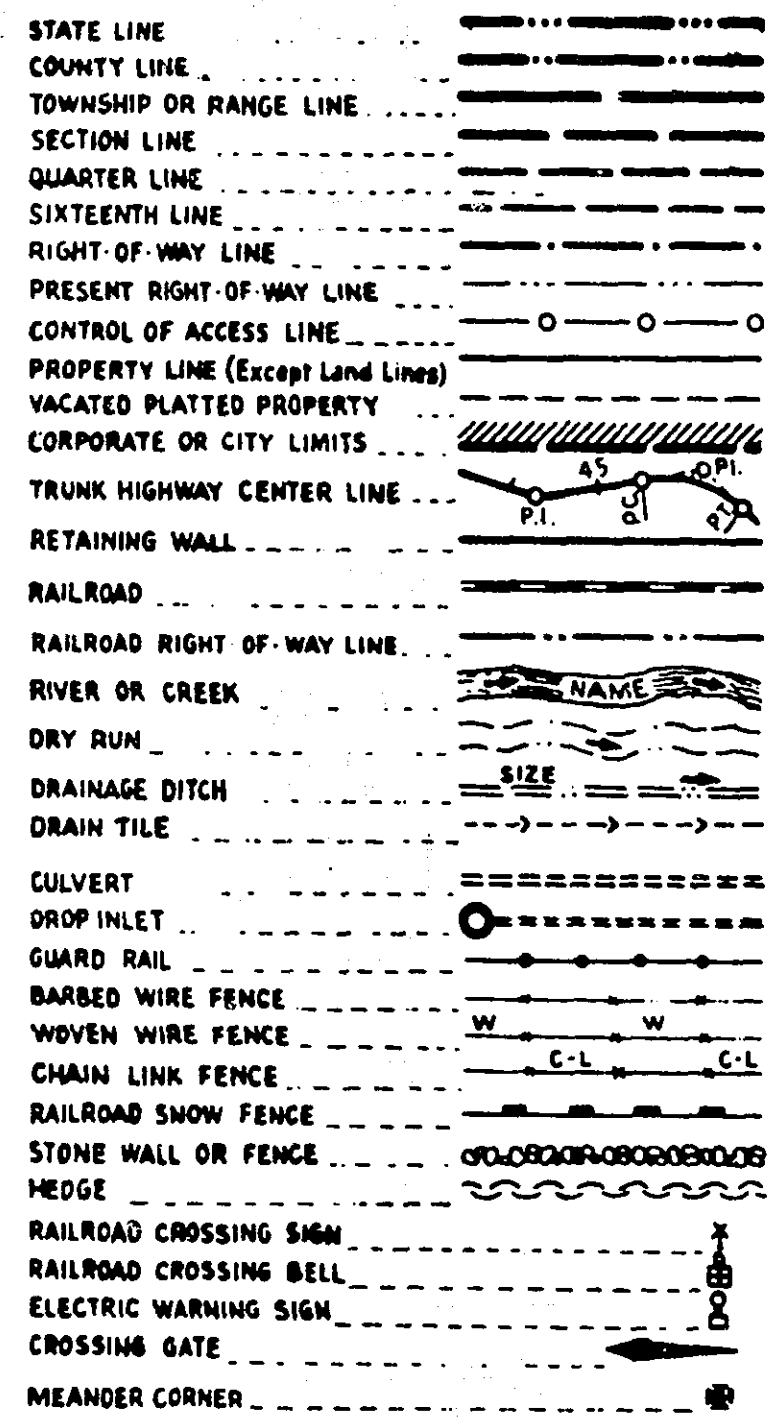
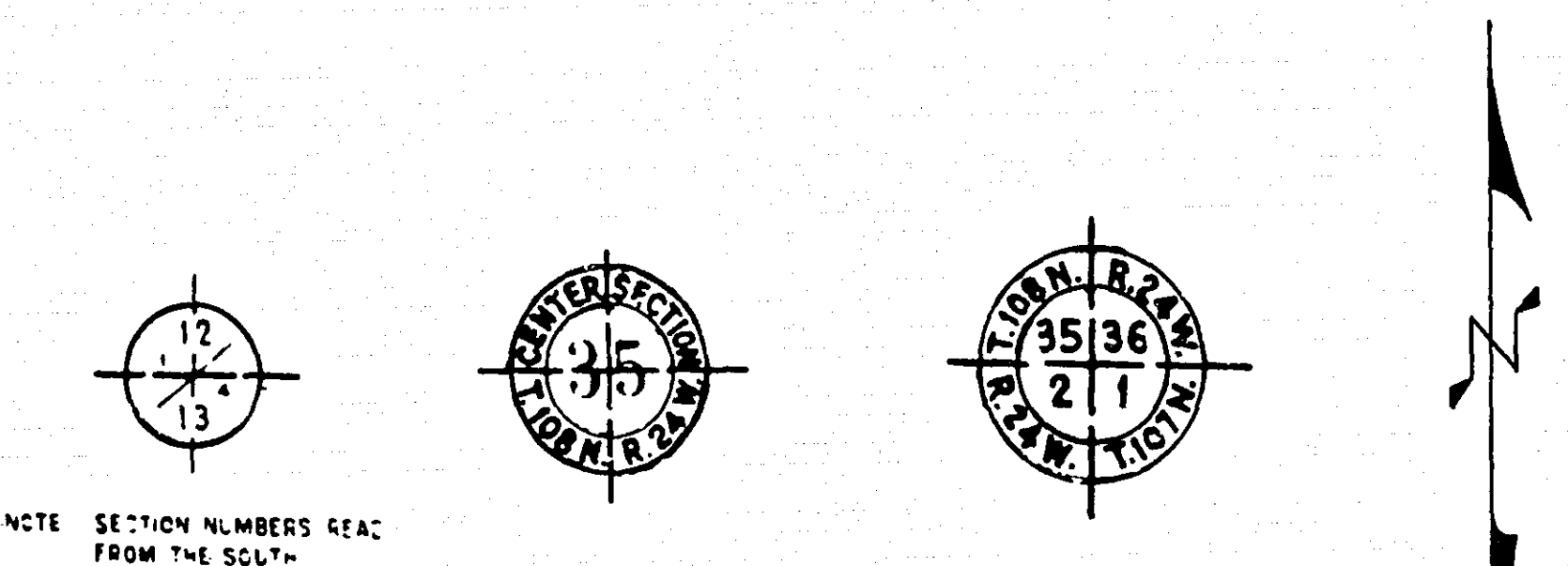
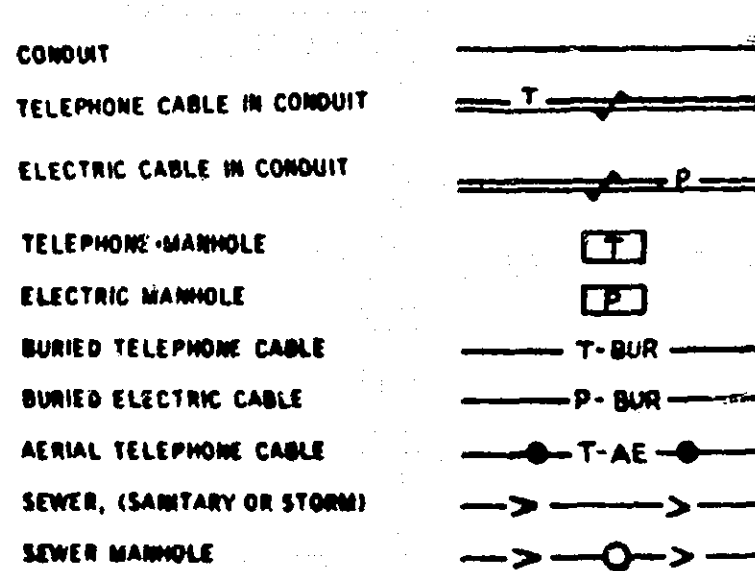
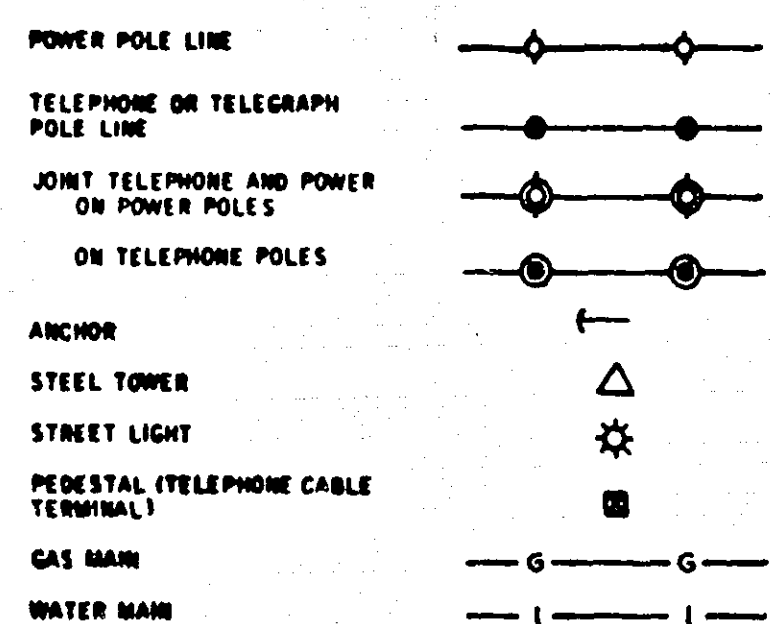


PLANS SYMBOLS



UTILITIES SYMBOLS



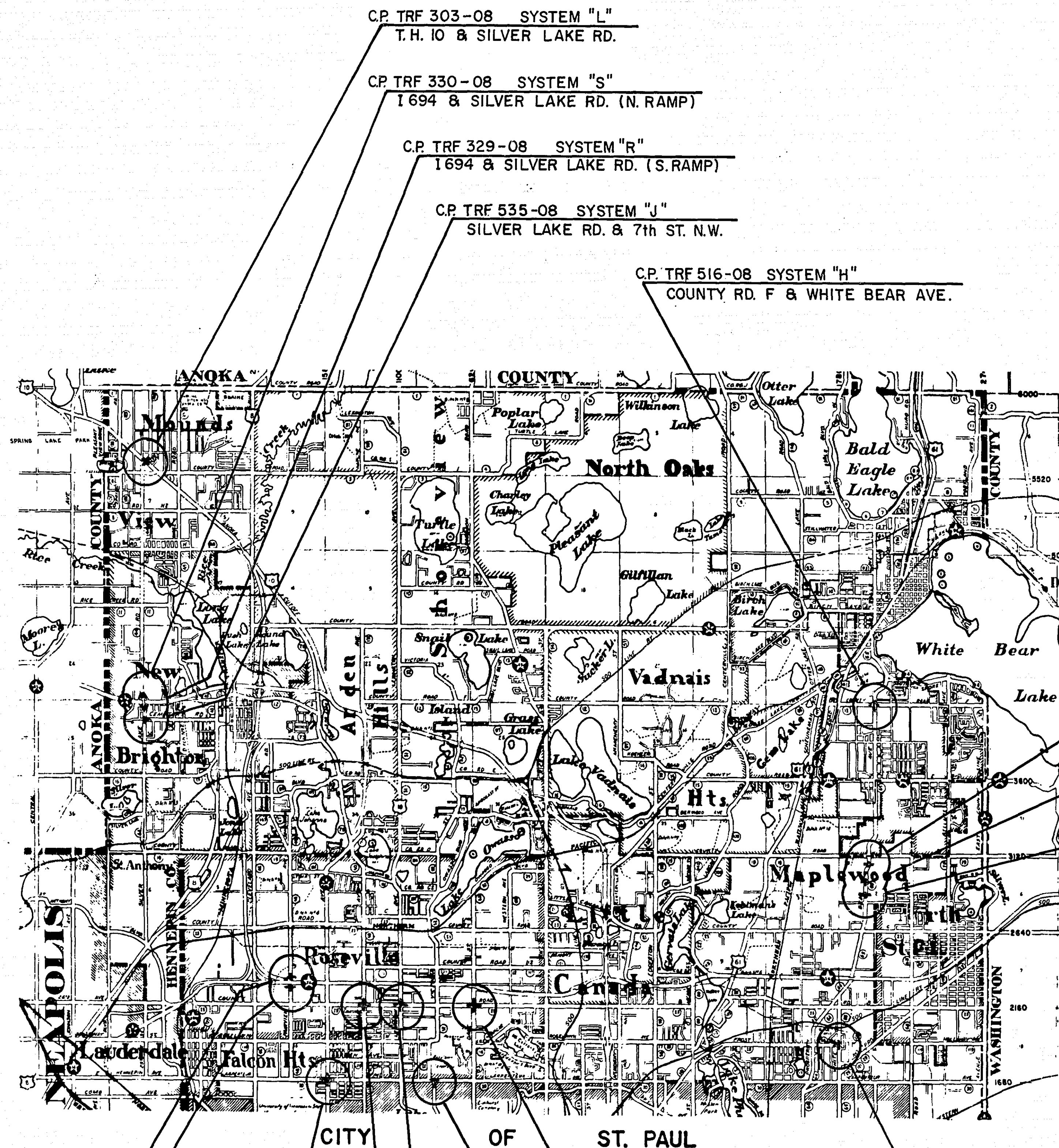
PIT DATA

PIT NO. _____ Located in _____
 Dead Haul _____
 PIT NO. _____ Located in _____
 Dead Haul _____

OFFICE OF COUNTY ENGINEER RAMSEY COUNTY

PLAN OF TRAFFIC CONTROL SYSTEM REVISIONS AND PAINTING FOR THE INTERSECTIONS OF

LARPENTEUR AVE. & VICTORIA ST.	SYSTEM "A"
WHITE BEAR AVE. & BEAM AVE.	SYSTEM "B"
WHITE BEAR AVE. & LYDIA AVE.	SYSTEM "C"
WHITE BEAR AVE. & WOODLYNN AVE.	SYSTEM "D"
COUNTY RD. B & HAMLINE AVE.	SYSTEM "E"
COUNTY RD. B & LEXINGTON AVE.	SYSTEM "F"
COUNTY RD. B & DALE ST.	SYSTEM "G"
COUNTY RD. F & WHITE BEAR AVE.	SYSTEM "H"
SILVER LAKE RD. & 7th ST. N.W.	SYSTEM "J"
WHITE BEAR AVE. & FROST AVE.	SYSTEM "K"
T.H. 10 & SILVER LAKE RD.	SYSTEM "L"
T.H. 36 & FAIRVIEW AVE. (N. RAMP)	SYSTEM "M"
T.H. 36 & FAIRVIEW AVE. (S. RAMP)	SYSTEM "N"
T.H. 51 & LARPENTEUR AVE.	SYSTEM "P"
I694 & SILVER LAKE RD. (S. RAMP)	SYSTEM "R"
I694 & SILVER LAKE RD. (N. RAMP)	SYSTEM "S"



INDEX	
SHEET NO.	DESCRIPTION
1	TITLE
2	ESTIMATED QUANTITIES & DETAILS
3-11	INTERSECTION LAYOUTS & WIRING DIAGRAMS — SIGNAL REVISIONS
12-23	INTERSECTION LAYOUTS — SIGNAL PAINTING

C.P. TRF 540-31 SYSTEM "D"	WHITE BEAR AVE. & WOODLYNN AVE.
C.P. TRF 539-31 SYSTEM "C"	WHITE BEAR AVE. & LYDIA AVE.
C.P. TRF 538-31 SYSTEM "B"	WHITE BEAR AVE. & BEAM AVE.

C.P. TRF 306-08 SYSTEM "M"	T.H. 36 & FAIRVIEW AVE. (N. RAMP)
C.P. TRF 307-08 SYSTEM "N"	T.H. 36 & FAIRVIEW AVE. (S. RAMP)

C.P. TRF 315-08 SYSTEM "P"	T.H. 51 & LARPENTEUR AVE.
C.P. TRF 502-08 SYSTEM "E"	COUNTY RD. B & HAMLINE AVE.
C.P. TRF 503-08 SYSTEM "F"	COUNTY RD. B & LEXINGTON AVE.

C.P. TRF 537-08 SYSTEM "K"	WHITE BEAR AVE. & FROST AVE.
C.P. TRF 505-08 SYSTEM "G"	COUNTY RD. B & DALE ST.
C.P. TRF 523-31 SYSTEM "A"	LARPENTEUR AVE. & VICTORIA ST.

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 Sept. 20, 1976 Reg. No. 5031

RECOMMENDED FOR APPROVAL <u>PLK</u> DATE <u>1-16-76</u>	RECOMMENDED FOR APPROVAL <u>Paul K. Kuchel</u> DATE <u>1-16-76</u> TRAFFIC ENGINEER
RECOMMENDED FOR APPROVAL <u>MDK</u> DATE <u>1-23-76</u>	RECOMMENDED FOR APPROVAL <u>Diane K. Arnold</u> DATE <u>July 2-76</u> COUNTY ENGINEER
RECOMMENDED FOR APPROVAL <u>Kew</u> DATE <u>1-22-76</u>	APPROVED _____ DATE <u>4/14/76</u>
RECOMMENDED FOR APPROVAL <u>WAB</u> DATE <u>1-22-76</u>	CHAIRMAN OF THE RAMSEY COUNTY BOARD
RECOMMENDED FOR APPROVAL <u>JAB</u> DATE <u>1-27-76</u>	APPROVED <u>Robert J. Boston</u> DATE _____ MAYOR, CITY OF MAPLEWOOD
APPROVED _____ DATE _____	APPROVED _____ DATE _____

MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL _____ DATE _____	DATE _____
RECOMMENDED FOR APPROVAL _____ DATE _____	DATE _____
APPROVAL _____ DATE _____	DATE _____

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 523-31, ETC.

Sheet No. 1 of 23 Sheets

23-105

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
PAI (eg) - PEDESTRIAN INDICATION - "A" PHASE
PBB2 (eg) - PUSH BUTTON - "B" PHASE
C3 (eg) - SIGNAL HEAD - "C" PHASE
DA4 (eg) - DETECTOR - "A" PHASE
H.H. - HANDHOLE
GR.R. - GROUND ROD
SERV. - SERVICE
EVP - EMERGENCY VEHICLE PRE-EMPTION

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

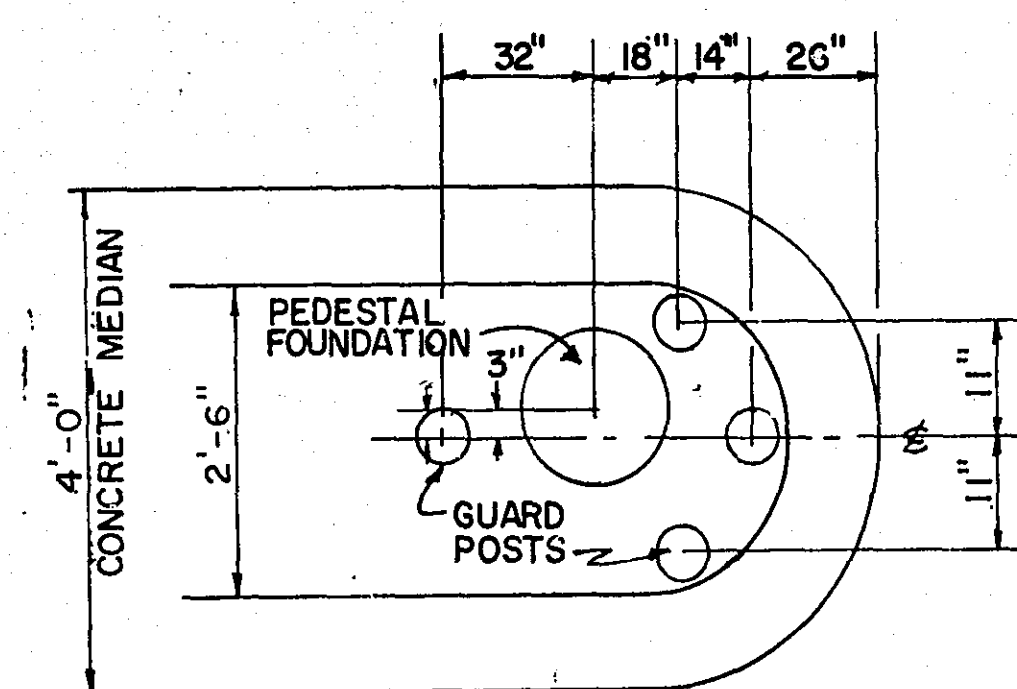
COLOR CODING OF CONDUCTOR

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

STANDARD PLATES

PLATE NO.	TITLE
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 AND PEDESTAL BASE
8123 A	POLE AND MAST ARM (LUMINAIRES AND 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



CONSTRUCT GUARD POSTS AND PEDESTAL FOUNDATIONS INTO CONCRETE MEDIAN

PEDESTAL FOUNDATION DETAIL IN CONCRETE MEDIAN SYSTEM "A"

ESTIMATED QUANTITIES

PROJECT NO.	ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
(1) TRF 523-31	0565.610	REVISE SIGNAL SYSTEM "A"	SYSTEM	1
(2) TRF 538-31	0565.610	REVISE SIGNAL SYSTEM "B"	SYSTEM	1
(3) TRF 539-31	0565.610	REVISE SIGNAL SYSTEM "C"	SYSTEM	1
(4) TRF 540-31	0565.610	REVISE SIGNAL SYSTEM "D"	SYSTEM	1
(5) TRF 502-08	0565.613	PAINT SIGNAL SYSTEM "E"	SYSTEM	1
(6) TRF 503-08	0565.613	PAINT SIGNAL SYSTEM "F"	SYSTEM	1
(7) TRF 505-08	0565.613	PAINT SIGNAL SYSTEM "G"	SYSTEM	1
(8) TRF 516-08	0565.613	PAINT SIGNAL SYSTEM "H"	SYSTEM	1
(9) TRF 535-08	0565.613	PAINT SIGNAL SYSTEM "J"	SYSTEM	1
(10) TRF 537-08	0565.613	PAINT SIGNAL SYSTEM "K"	SYSTEM	1
(11) TRF 303-08	0565.613	PAINT SIGNAL SYSTEM "L"	SYSTEM	1
(12) TRF 306-08	0565.613	PAINT SIGNAL SYSTEM "M"	SYSTEM	1
(13) TRF 307-08	0565.613	PAINT SIGNAL SYSTEM "N"	SYSTEM	1
(14) TRF 315-08	0565.613	PAINT SIGNAL SYSTEM "P"	SYSTEM	1
(15) TRF 329-08	0565.613	PAINT SIGNAL SYSTEM "R"	SYSTEM	1
(16) TRF 330-08	0565.613	PAINT SIGNAL SYSTEM "S"	SYSTEM	1

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.

James K. Anderson
Date: July 2, 76 Reg. No. 5031

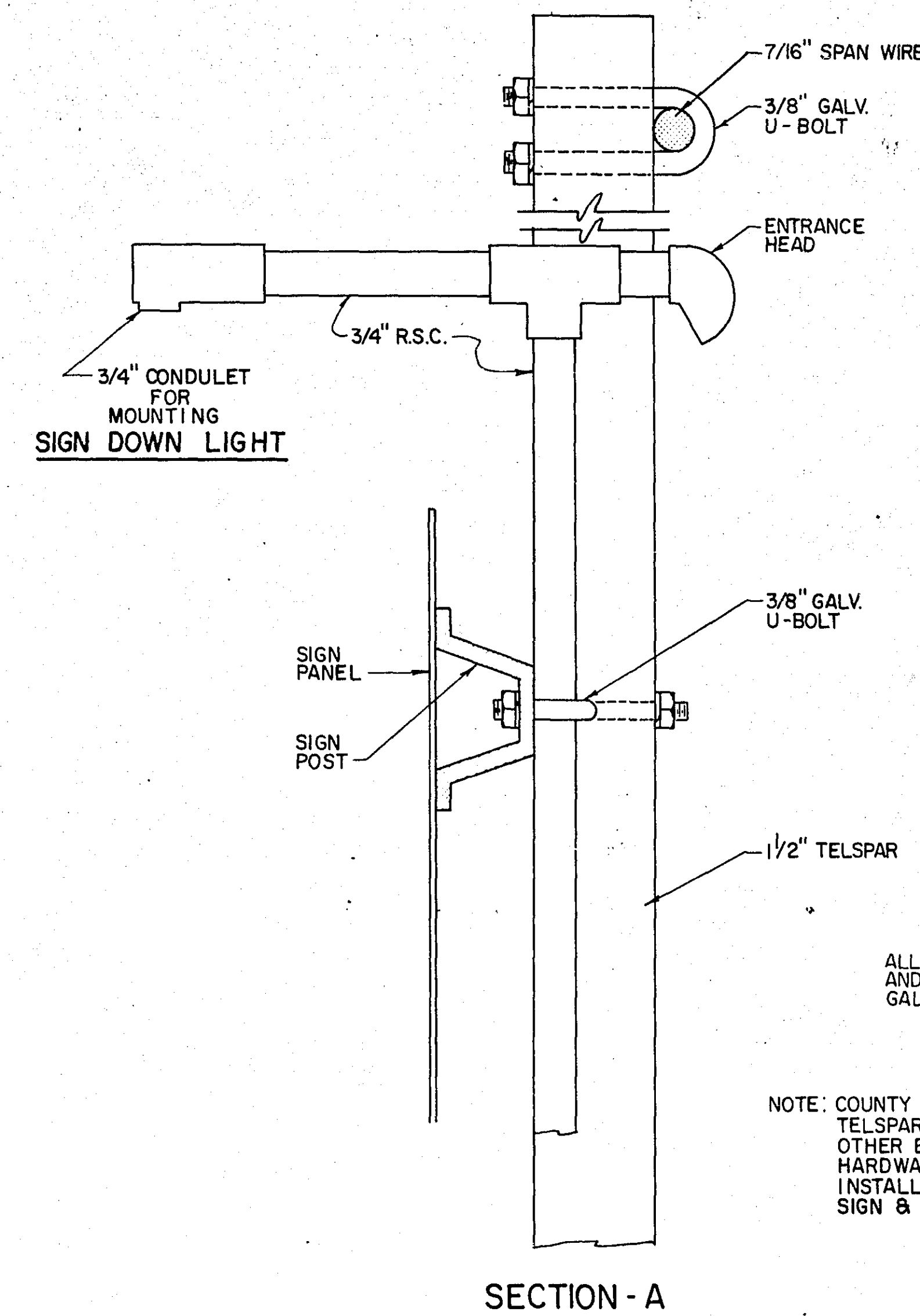
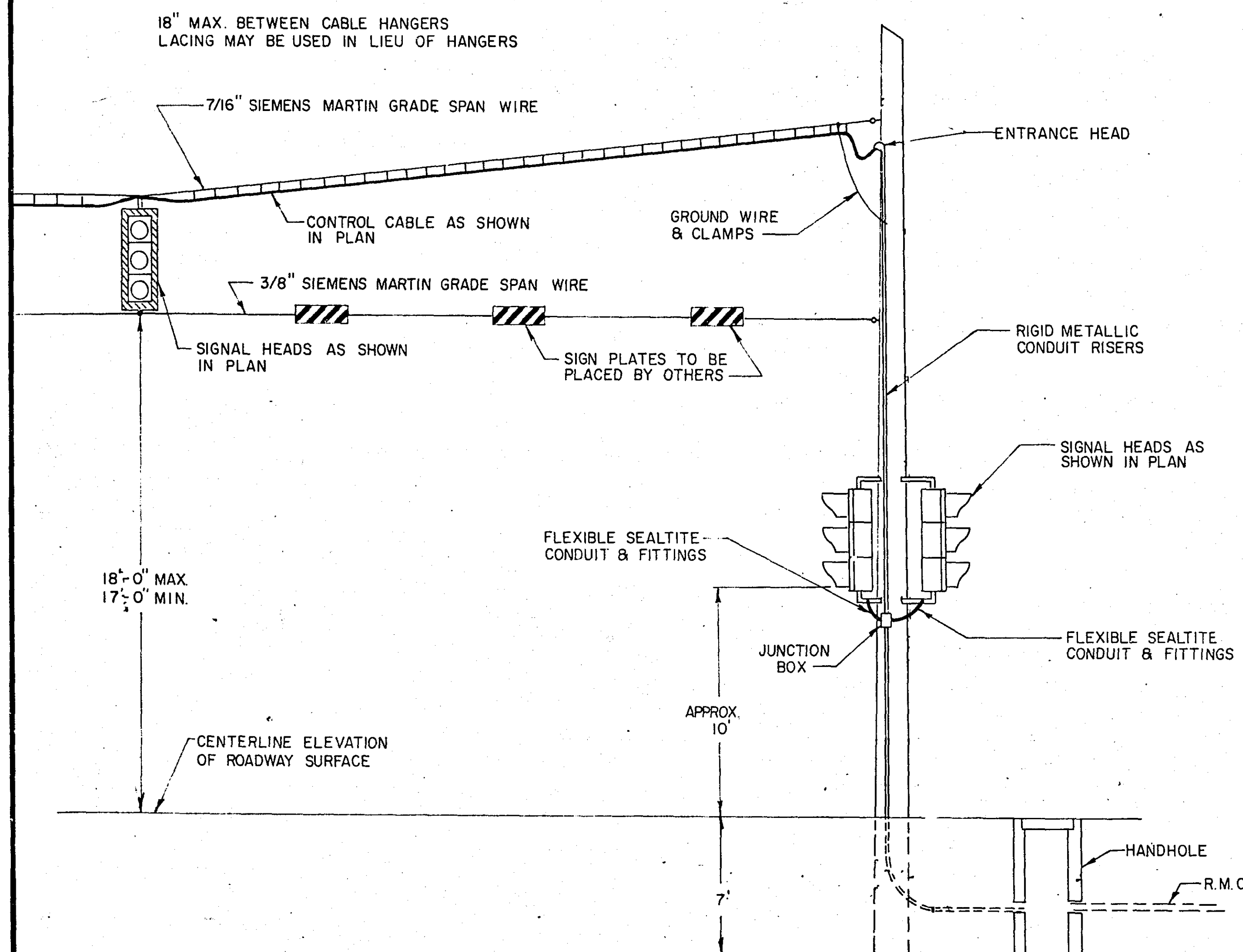
ACCOUNT NO. 50164

CO. PROJ. NO. TRF 523-31, ETC.

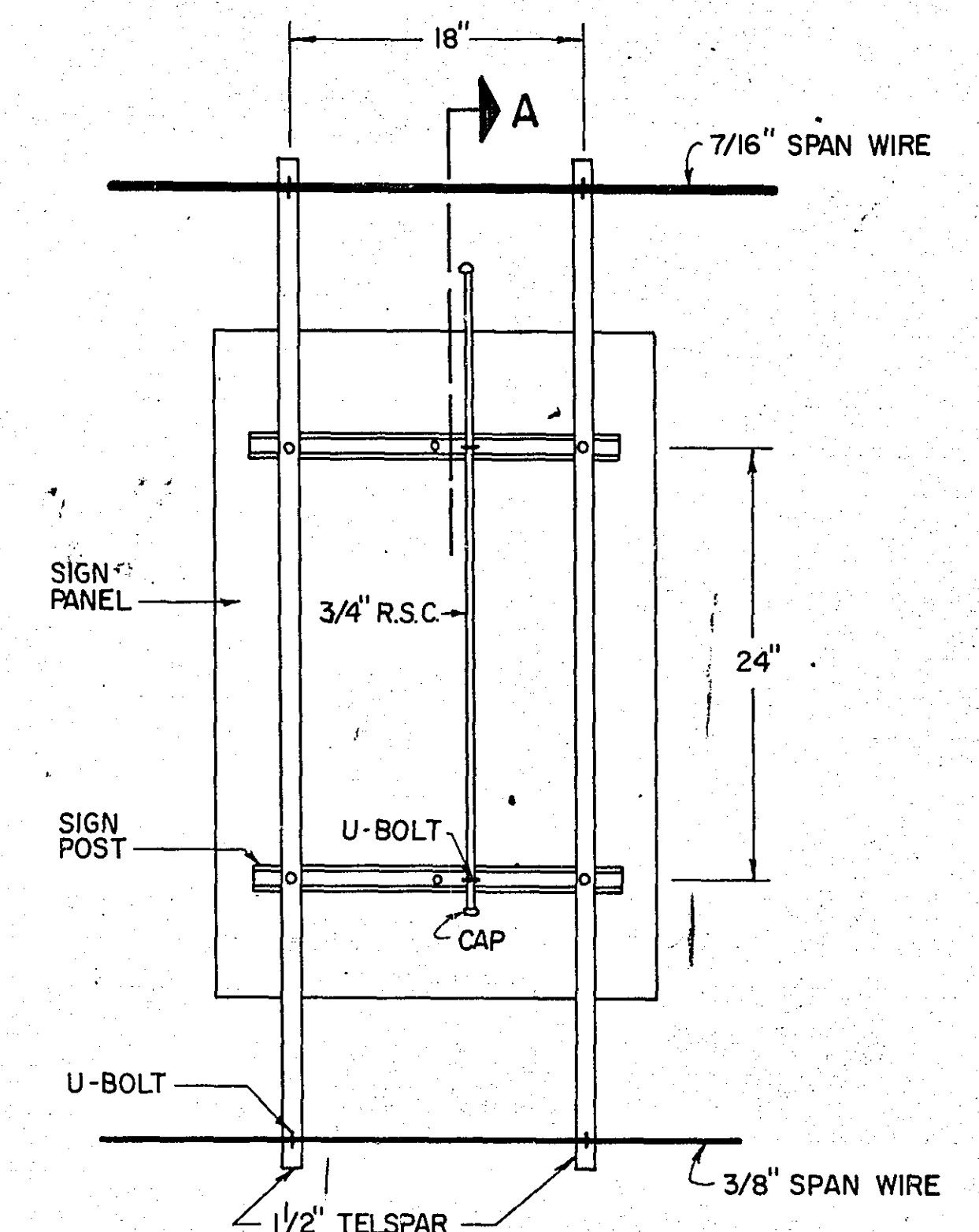
SHEET NO. 2 OF 23 SHEETS

23-105

TYPICAL TEMPORARY WOOD POLE TRAFFIC SIGNAL SYSTEM "B", "C", "D"



NOTE: COUNTY TO FURNISH SIGN POSTS, TELSPAR, AND SIGN PANEL. ALL OTHER EQUIPMENT AND MISC. HARDWARE TO BE FURNISHED & INSTALLED BY CONTRACTOR FOR SIGN & DOWN LIGHT MOUNTING



TYPICAL MOUNTING FOR SIGN & DOWN LIGHT ON SPAN WIRE SYSTEM "C"

ESTIMATED QUANTITIES AND DETAILS

MICROFILMED
JAN 20 1977
FBI/DOJ

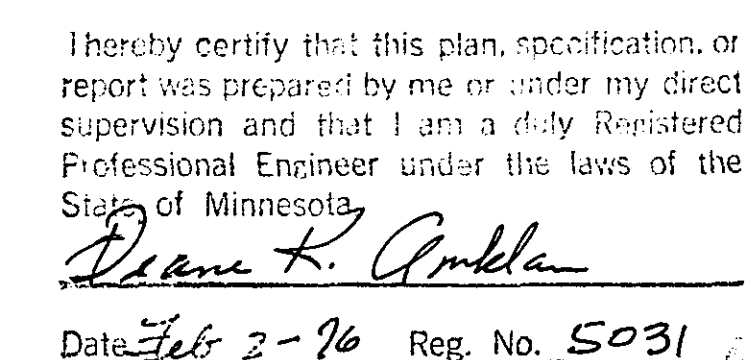
SIGNAL BASE NO.	
SIGNAL FACE NO.	
CONTROLLER AND CABINET	
CONTROLLER AND CABINET-INPLACE	
HANDHOLE	
HANDHOLE-INPLACE	
RIGID STEEL CONDUIT (R.S.C.)	
RIGID STEEL CONDUIT (R.S.C.)-INPLACE	
SIGNAL FACE	
SIGNAL FACE WITH BACKGROUND SHIELD	
SIGNAL FACE-INPLACE	
PEDESTRIAN INDICATIONS	
PEDESTRIAN INDICATIONS-INPLACE	
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	

The diagram illustrates a four-way intersection with the following components:

- Streets:** LARPEUTEUR AVE. (horizontal) and VICTORIA ST. (vertical).
- Pedestrian Crossings:**
 - Northbound on LARPEUTEUR AVE.: PB2
 - Southbound on LARPEUTEUR AVE.: PB3
 - Eastbound on VICTORIA ST.: PB1
 - Westbound on VICTORIA ST.: PB4
- Push Buttons:**
 - Northbound LARPEUTEUR AVE.: PBA2
 - Southbound LARPEUTEUR AVE.: PBA3
 - Eastbound VICTORIA ST.: PBA1
 - Westbound VICTORIA ST.: PBA4
- Arrows:**
 - Horizontal arrows on LARPEUTEUR AVE. pointing left and right.
 - Vertical arrows on VICTORIA ST. pointing up and down.
 - Small arrows at each crossing indicating the direction of pedestrian travel.

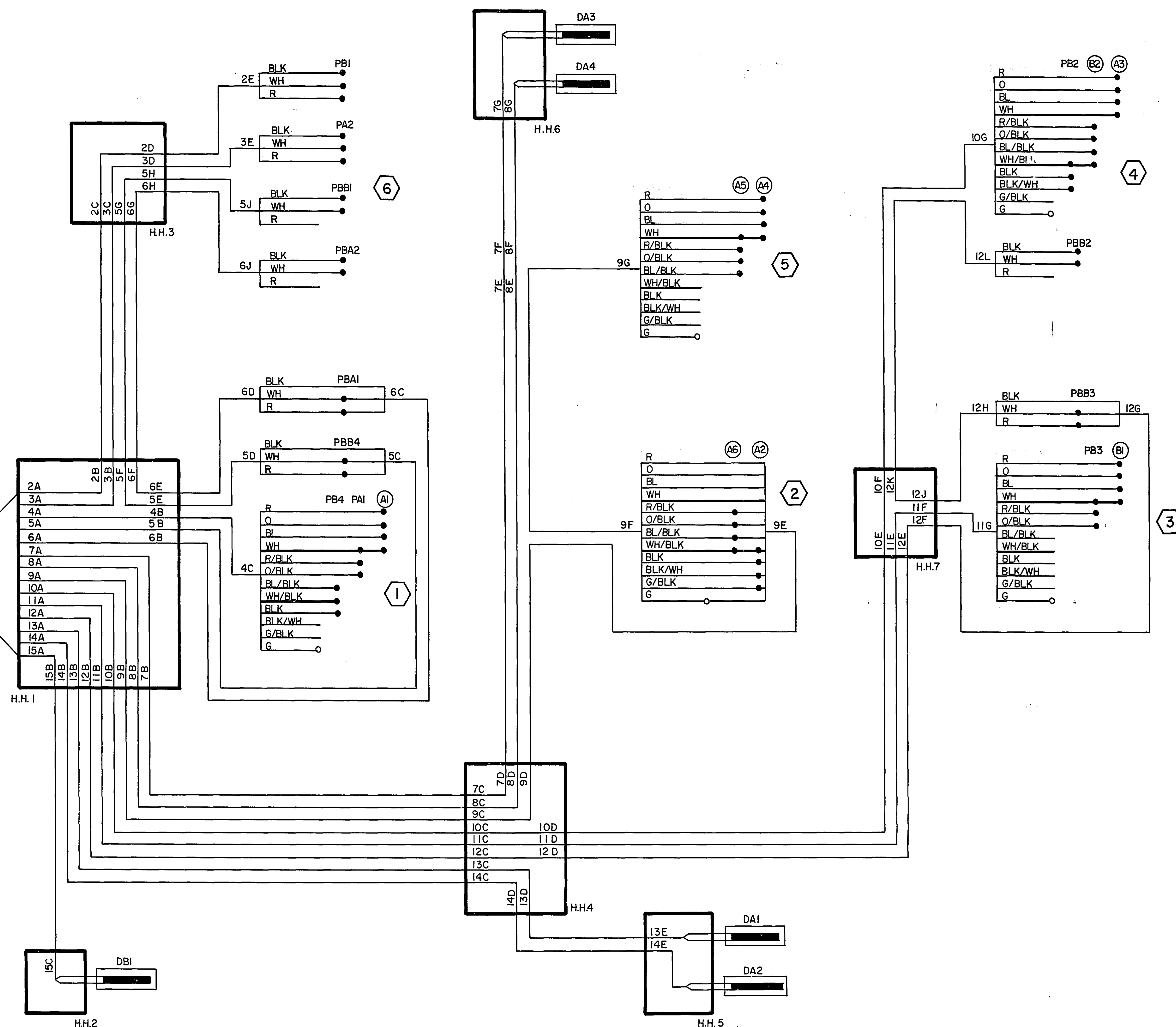
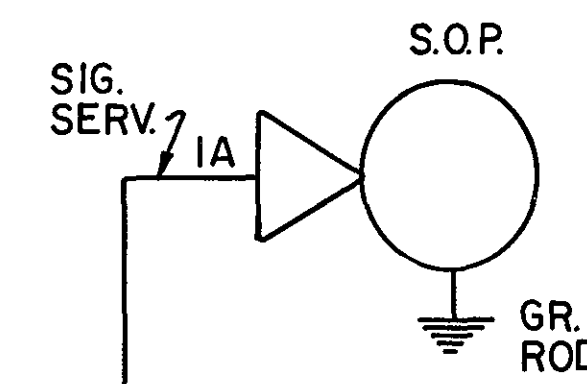
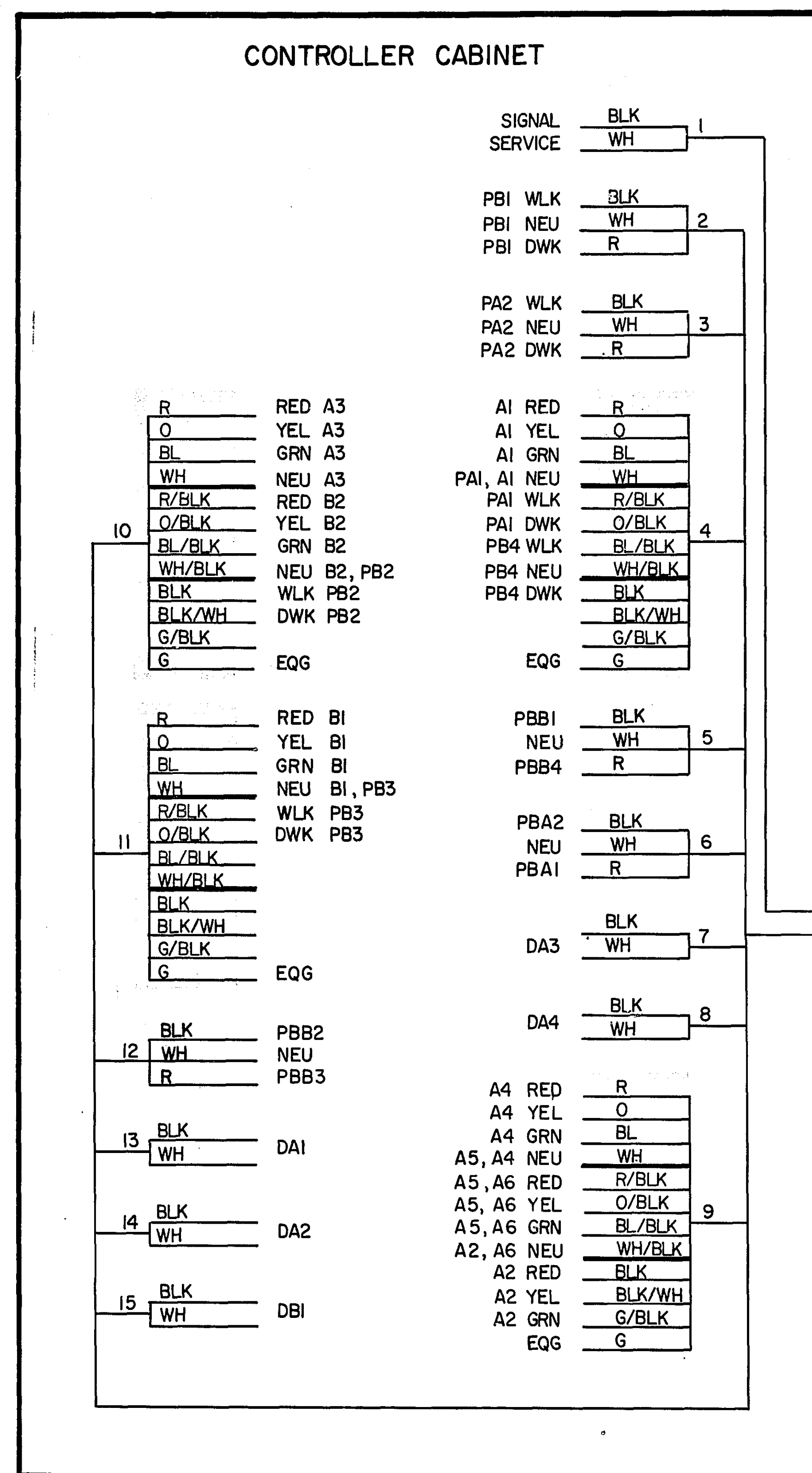
PEDESTRIAN PHASING AND PUSH BUTTON LAYOUT

* USE SALVAGED INDICATIONS
(ALL OTHER INDICATIONS SHALL BE NEW)



CO. PROJ. NO. TRF 523-31

SHEET NO. 3 OF 23 SHEETS



NOTE: ALL CABLES SHALL BE NEW

Thereby 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.

Dean R. Gordon

Date Feb 2-76 Reg. No. 5031

FIELD WIRING DIAGRAM
LARPENTEUR AVE. & VICTORIA ST.
SYSTEM "A"

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 523-31

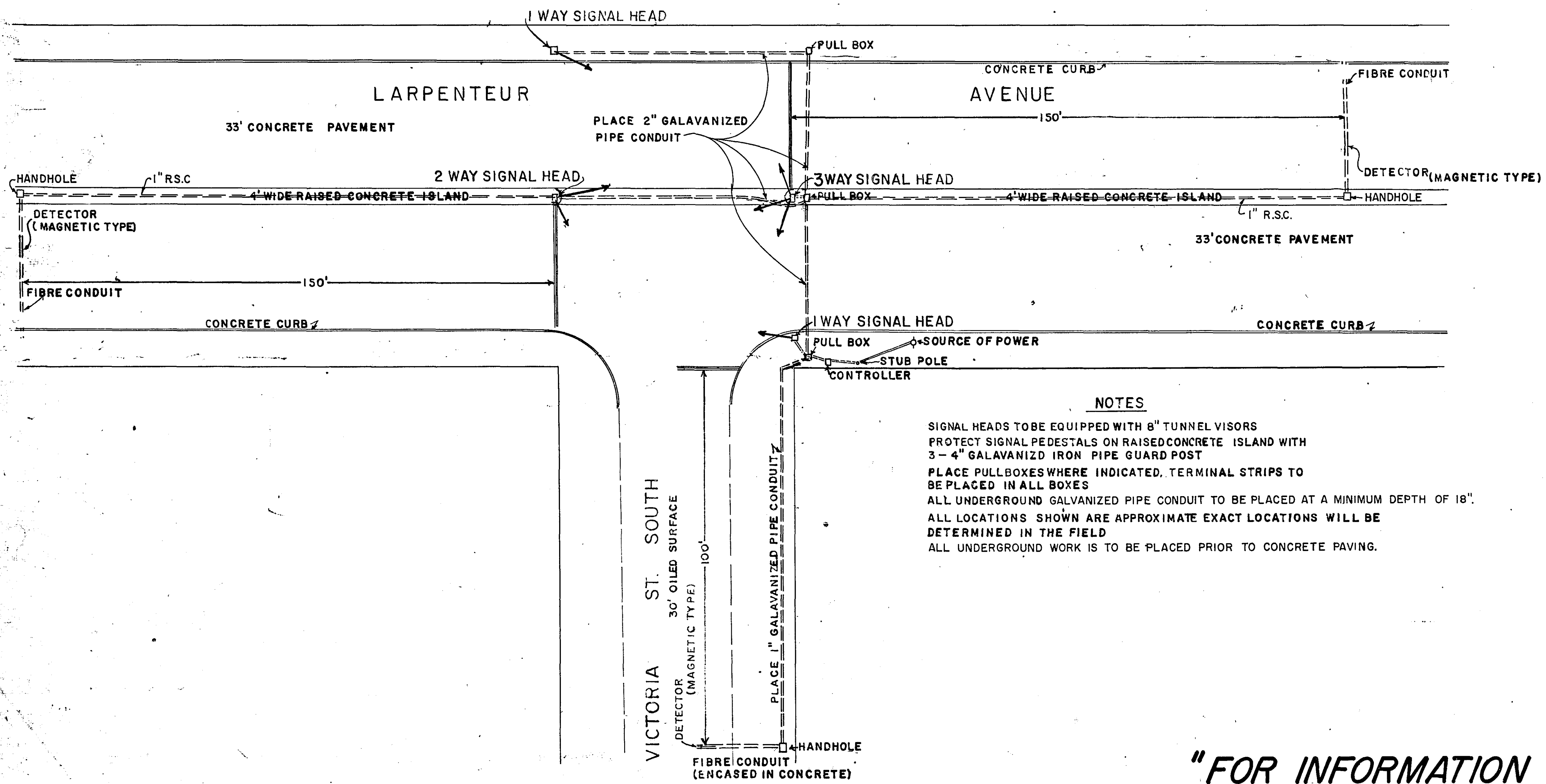
SHEET NO. 4 OF 23 SHEETS

23-105

FULL TRAFFIC ACTUATED TRAFFIC SIGNAL SYSTEM

AT INTERSECTION OF LARPEN TEUR AVE & VICTORIA SOUTH

SCALE: 1" = 20'



"FOR INFORMATION ONLY"

INTERSECTION LAYOUT
LARPEN TEUR AVE. & VICTORIA ST.
SYSTEM "A"

MICROFILMED
RAMSEY CO. ENGR.

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 523-31

SHEET NO. 5 OF 23 SHEETS

23-105

SIGNAL BASE NO. _____

SIGNAL FACE NO. _____

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 _____

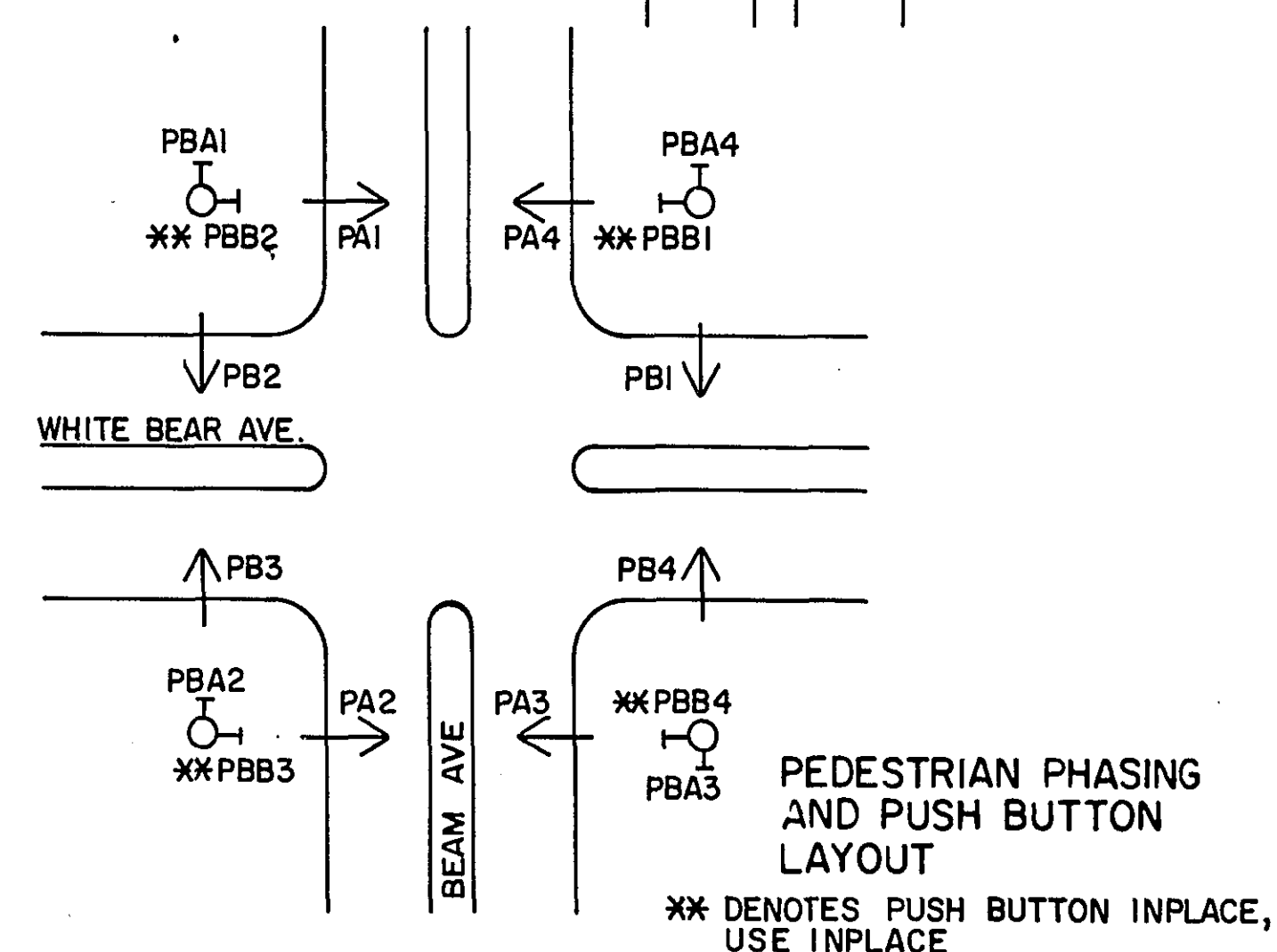
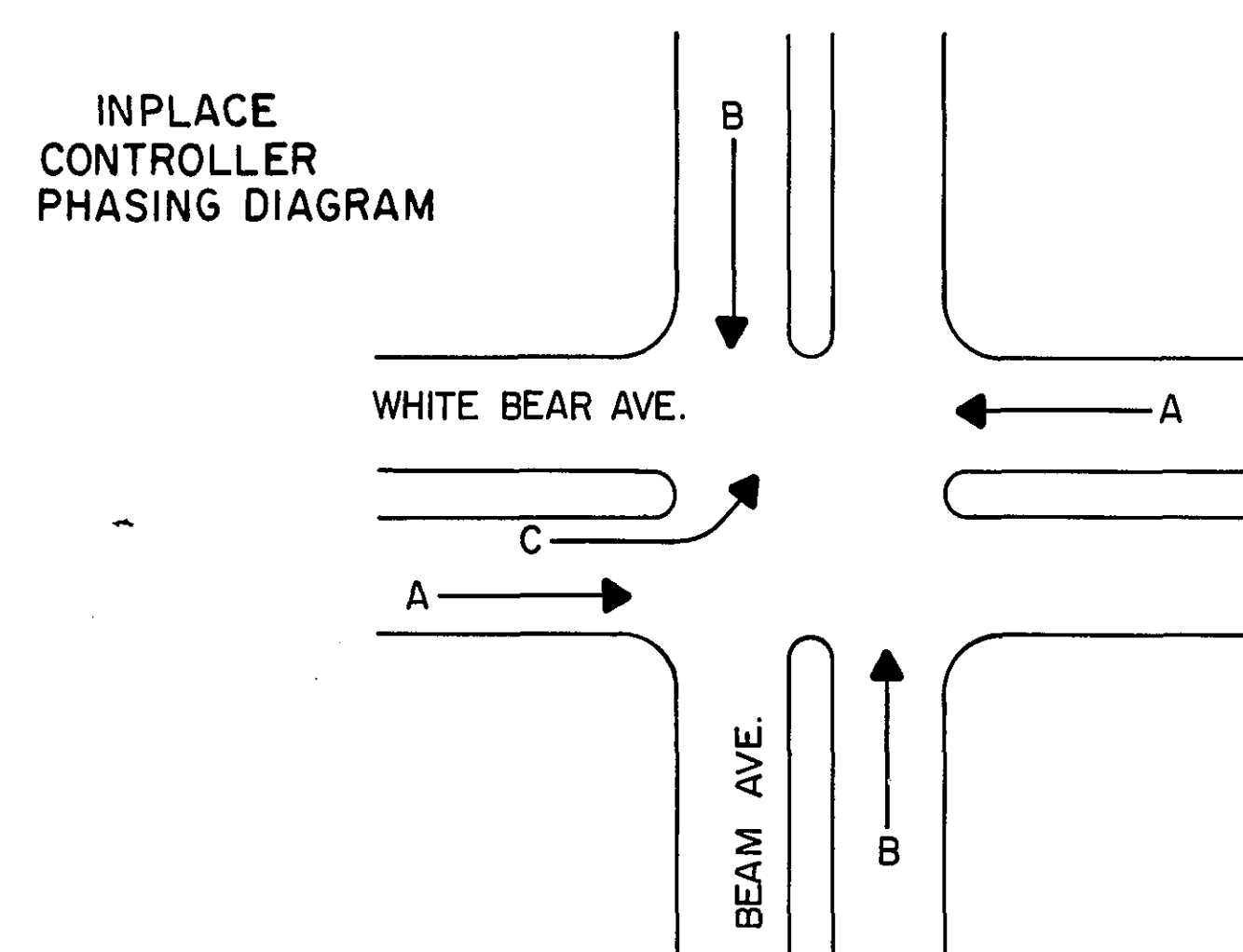
MAST ARM AND LUMINAIRE-INPLACE _____

WOOD POLE _____

WOOD POLE-INPLACE _____

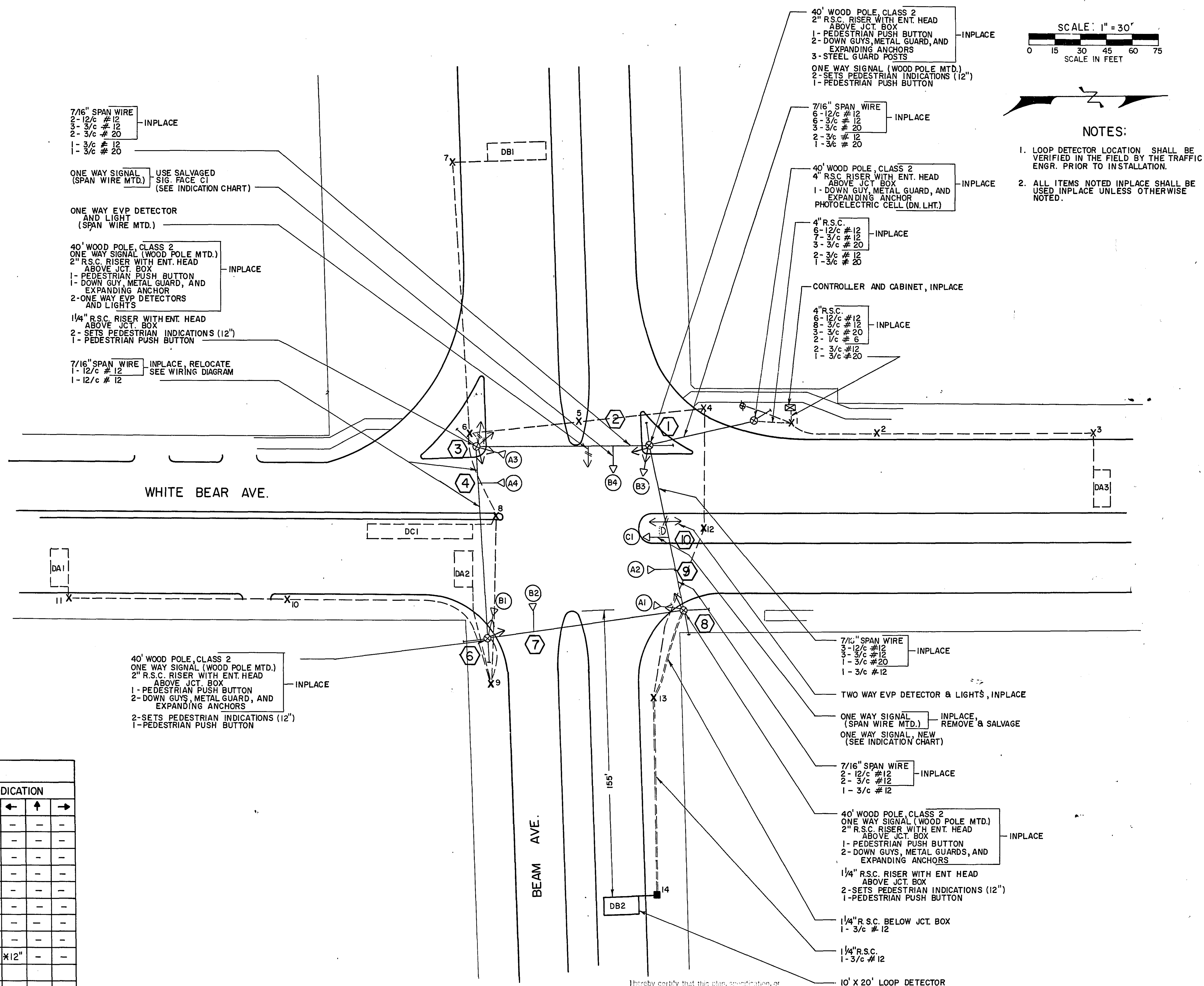
SOURCE OF POWER _____

EMERGENCY VEHICLE PRE-EMPTION DETECTOR LOCATION _____

[illegible]

* SPECIAL SIGNAL FACE
(SEE SPECIAL PROVISION)

† USE SALVAGED SIGNAL FACE CI



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.

Dean R. Ambler

Date Feb. 2, 76 Reg. No. 5031

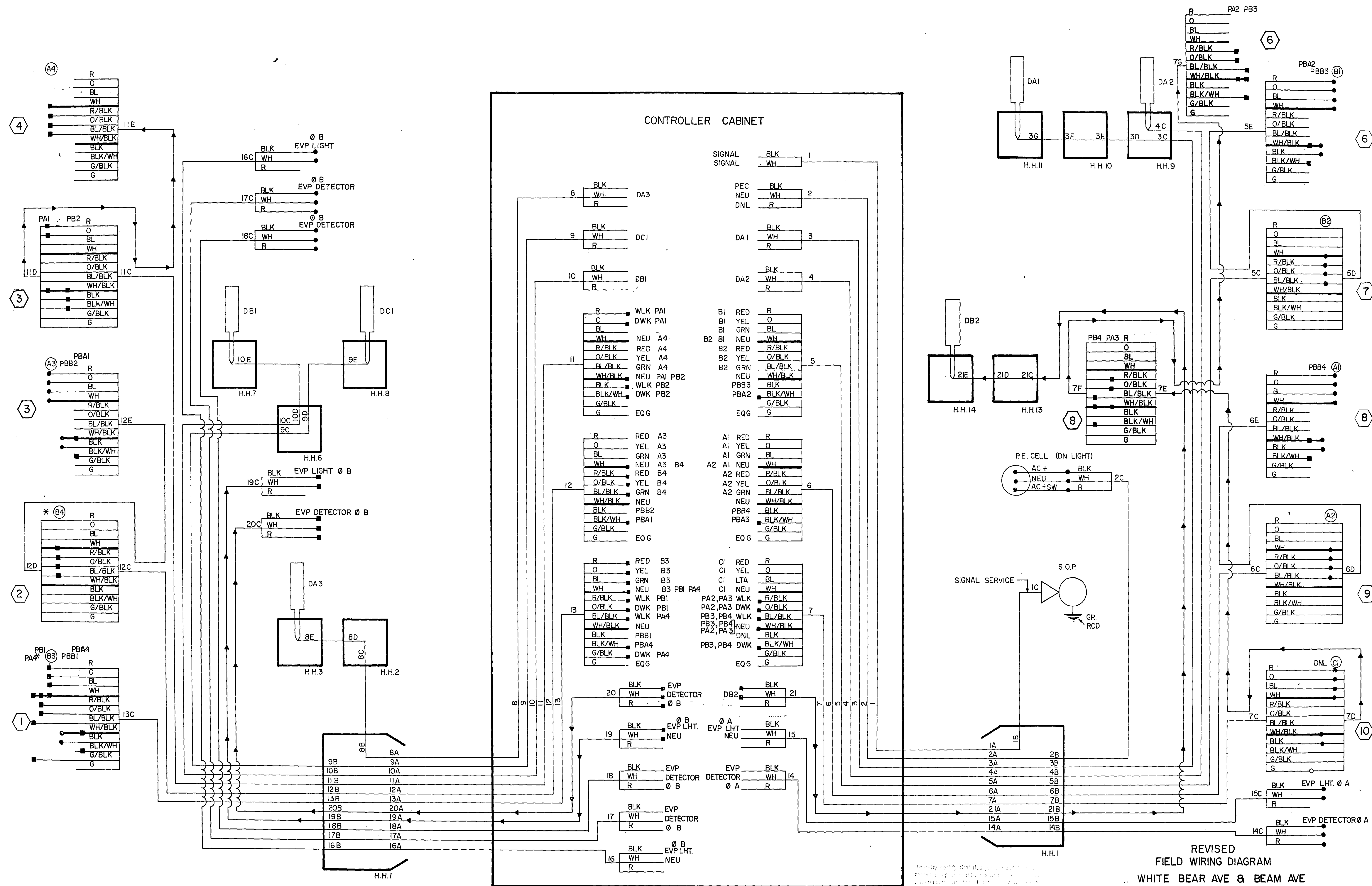
INTERSECTION LAYOUT
WHITE BEAR AVE. & BEAM AVE.
SYSTEM "B"

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 538-31

SHEET NO. 6 OF 23 SHEETS

23-105

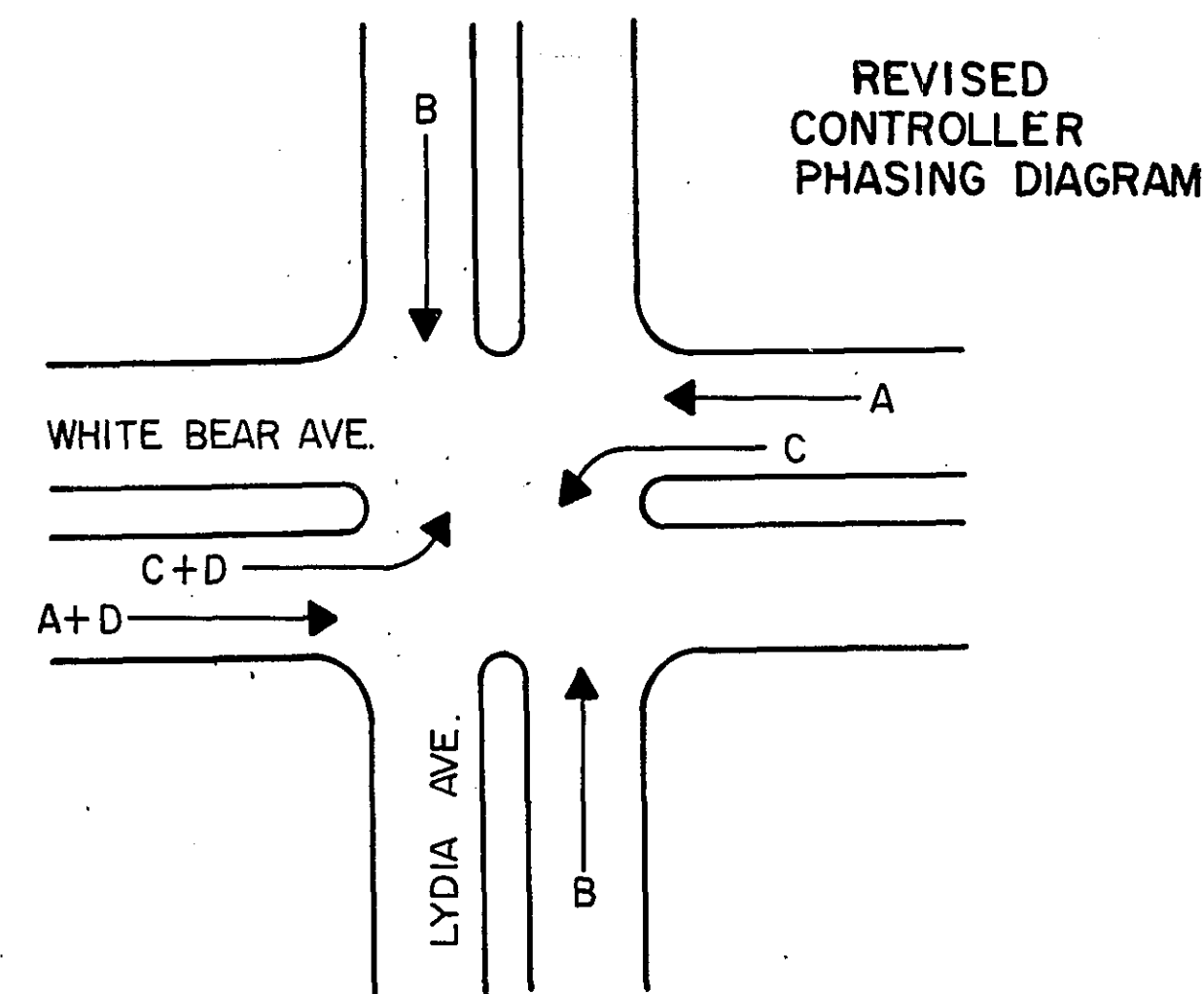


■ NEW FIELD CONNECTION BY CONTRACTOR
 ——— NEW CABLE
 PULL EXISTING CABLE #11 BACK TO SIGNAL (3)
 AND EXTEND NEW CABLE AS SHOWN.

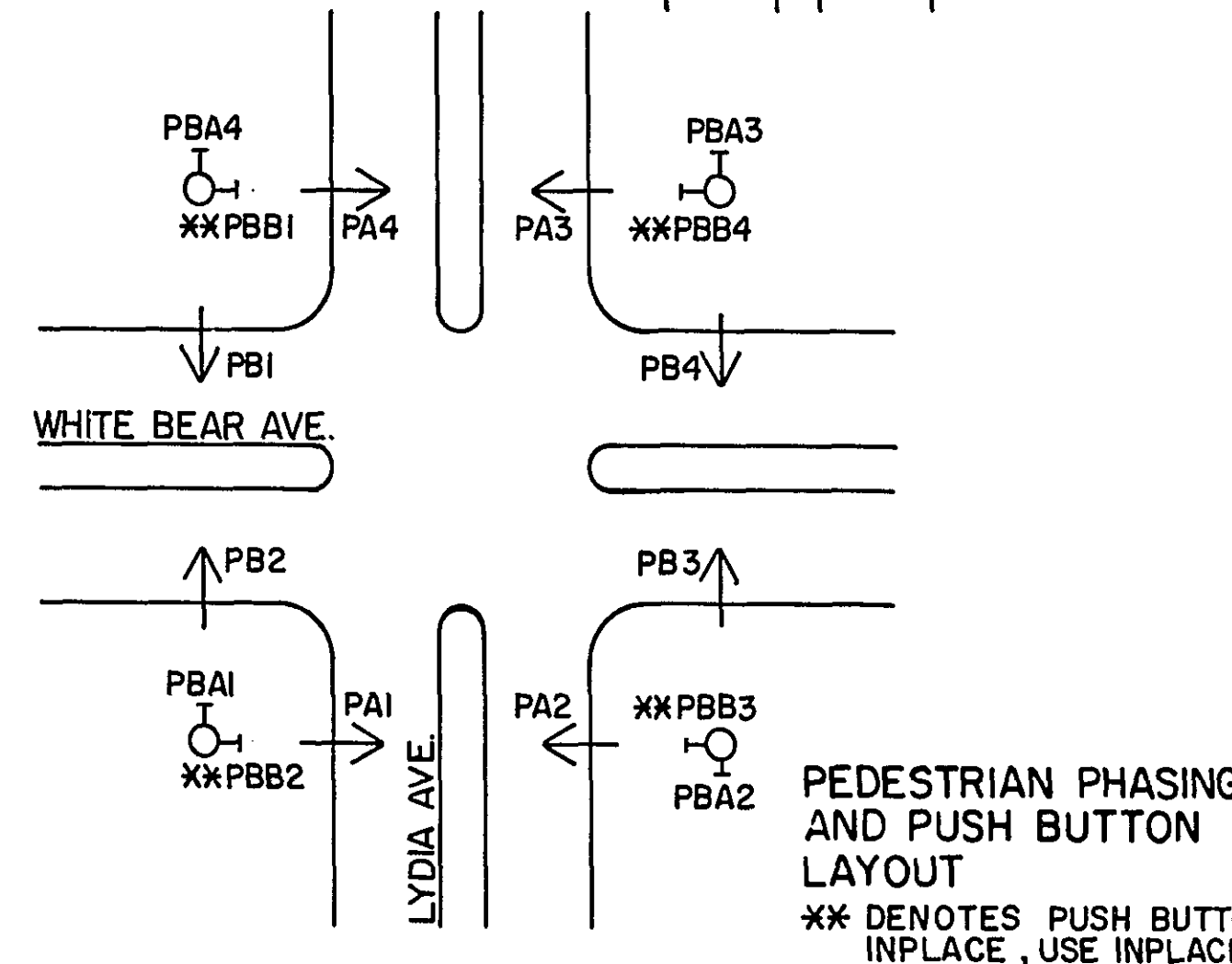
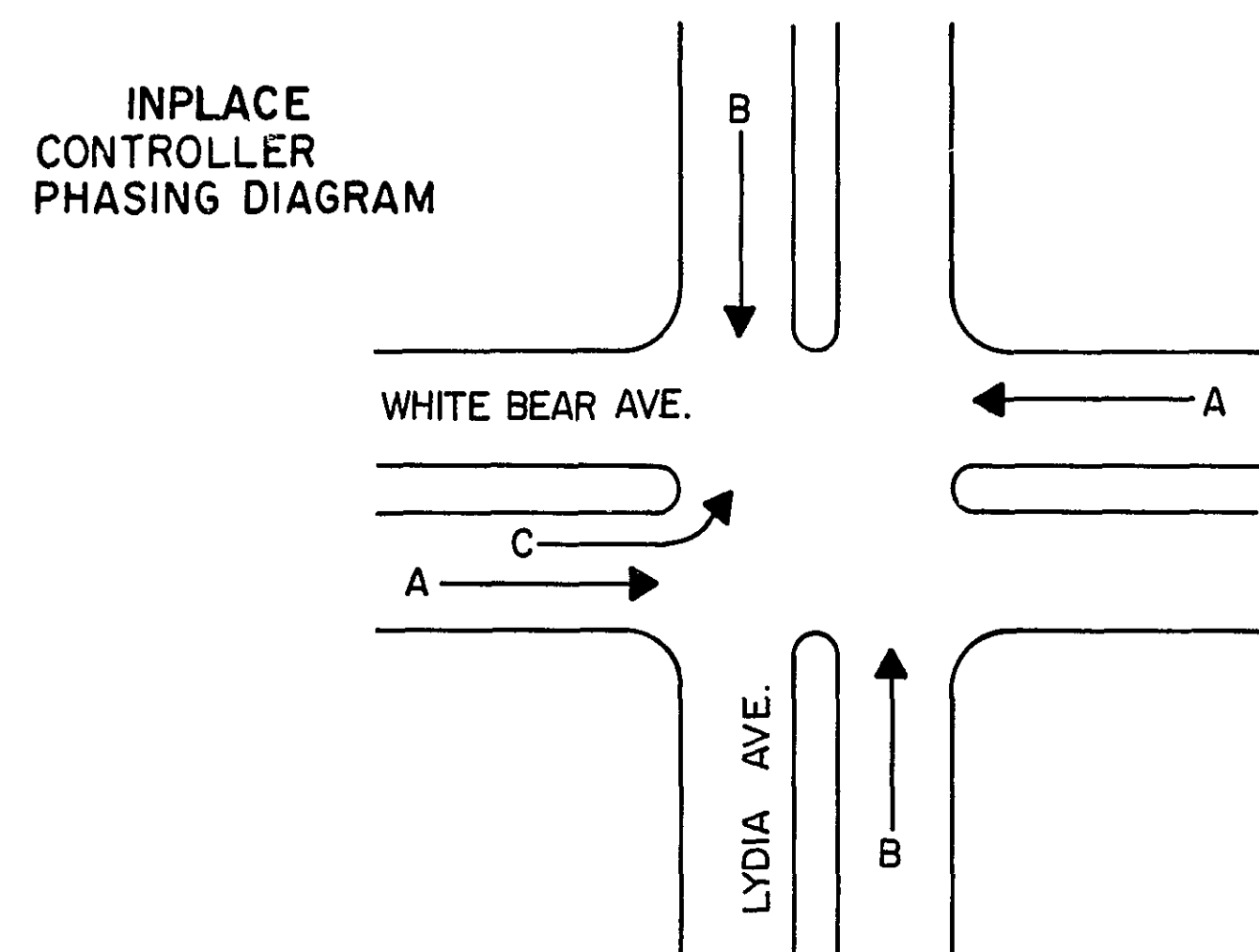
I hereby certify that the plans and specifications
 herein were prepared by me or under my direct
 supervision and that I am a duly Licensed
 Professional Engineer under the laws of the
 State of Minnesota.
Dean R. Gredler
 D.E. Feb 2-76 Reg. No. 5031

LEGEND OF SYMBOLS

SIGNAL BASE No. 5
 SIGNAL FACE No. 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



INPLACE CONTROLLER PHASING DIAGRAM



INPLACE

SIGNAL INDICATION CHART								
FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1	A	Y	12"	12"	12"	-	-	-
A2	A	Y	12"	12"	12"	-	-	-
A3	A	Y	12"	12"	12"	-	-	-
A4	A	Y	12"	12"	12"	-	-	-
B1	B	R	12"	12"	12"	-	-	-
B2	B	R	12"	12"	12"	-	-	-
C1	C	R	12"	12"	-	12"	-	-

REVISED

SIGNAL INDICATION CHART								
FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1	A+D	Y	12"	12"	12"	-	-	-
A1	A+D	Y	12"	12"	12"	-	-	-
A3	A	Y	12"	12"	12"	-	-	-
A4	A	Y	12"	12"	12"	-	-	-
B1	B	R	12"	12"	12"	-	-	-
B2	B	R	12"	12"	12"	-	-	-
B3	B	R	12"	12"	12"	-	-	-
B4	B	R	12"	12"	12"	-	-	-
D1	C+D	R	*12"	*12"	-	*12"	-	-
C2	C	R	*12"	*12"	-	*12"	-	-

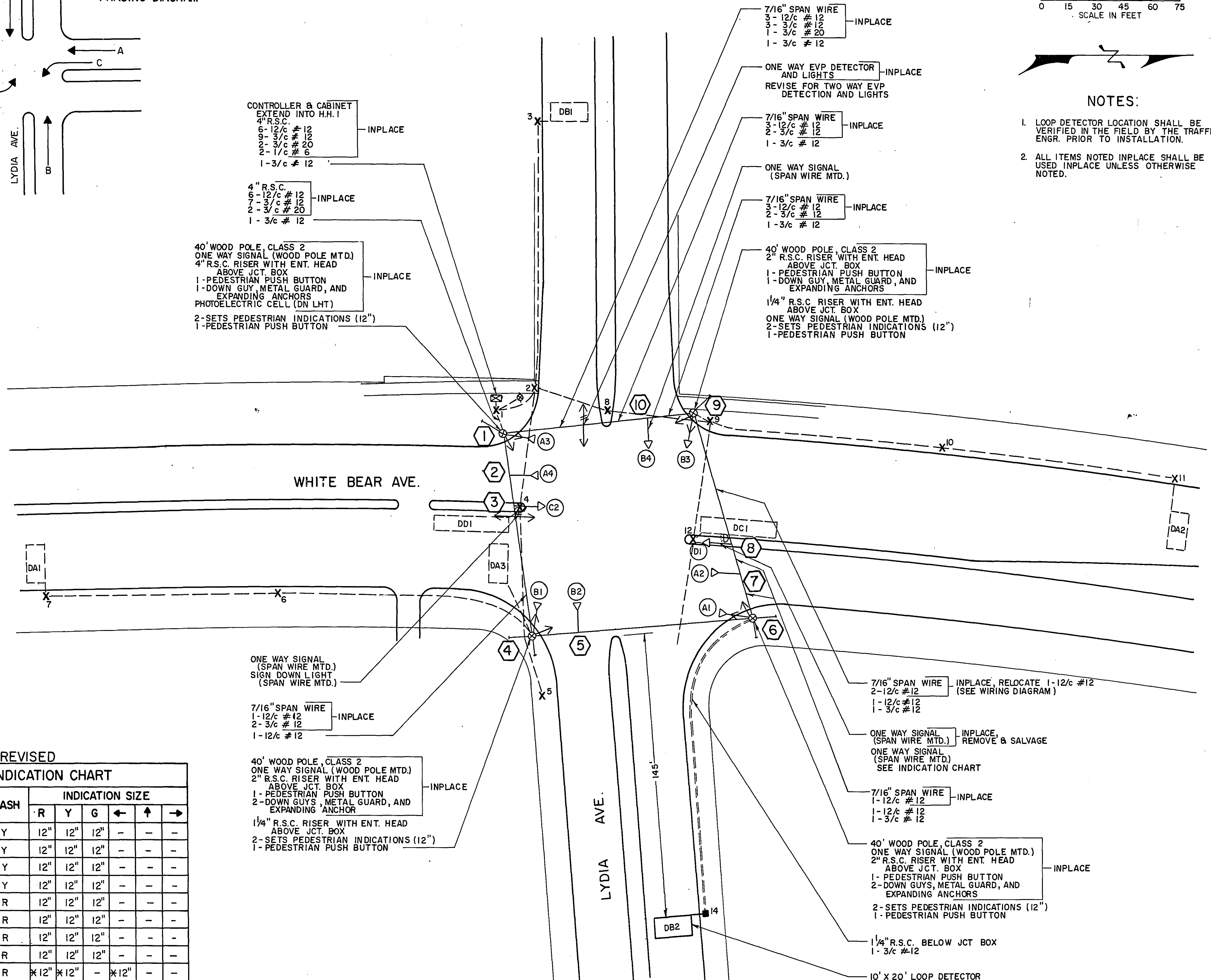
RETURN SALVAGED SIGNAL FACE C1
 TO RAMSEY COUNTY

* SPECIAL SIGNAL FACE
 (SEE SPECIAL PROVISIONS)

SCALE: 1" = 30'
 0 15 30 45 60 75
 SCALE IN FEET

NOTES:

1. LOOP DETECTOR LOCATION SHALL BE VERIFIED IN THE FIELD BY THE TRAFFIC ENGR. PRIOR TO INSTALLATION.
2. ALL ITEMS NOTED INPLACE SHALL BE USED INPLACE UNLESS OTHERWISE NOTED.



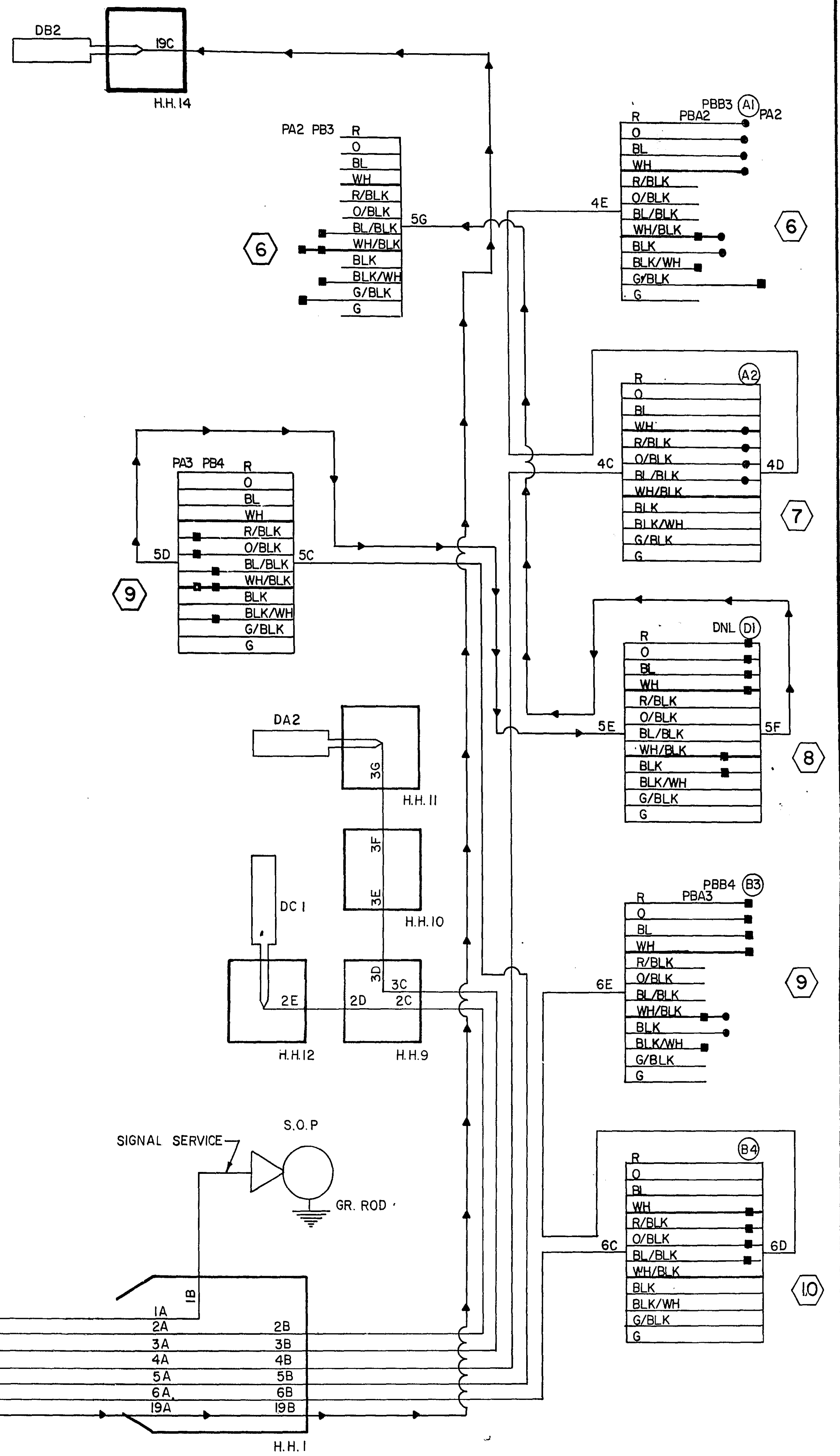
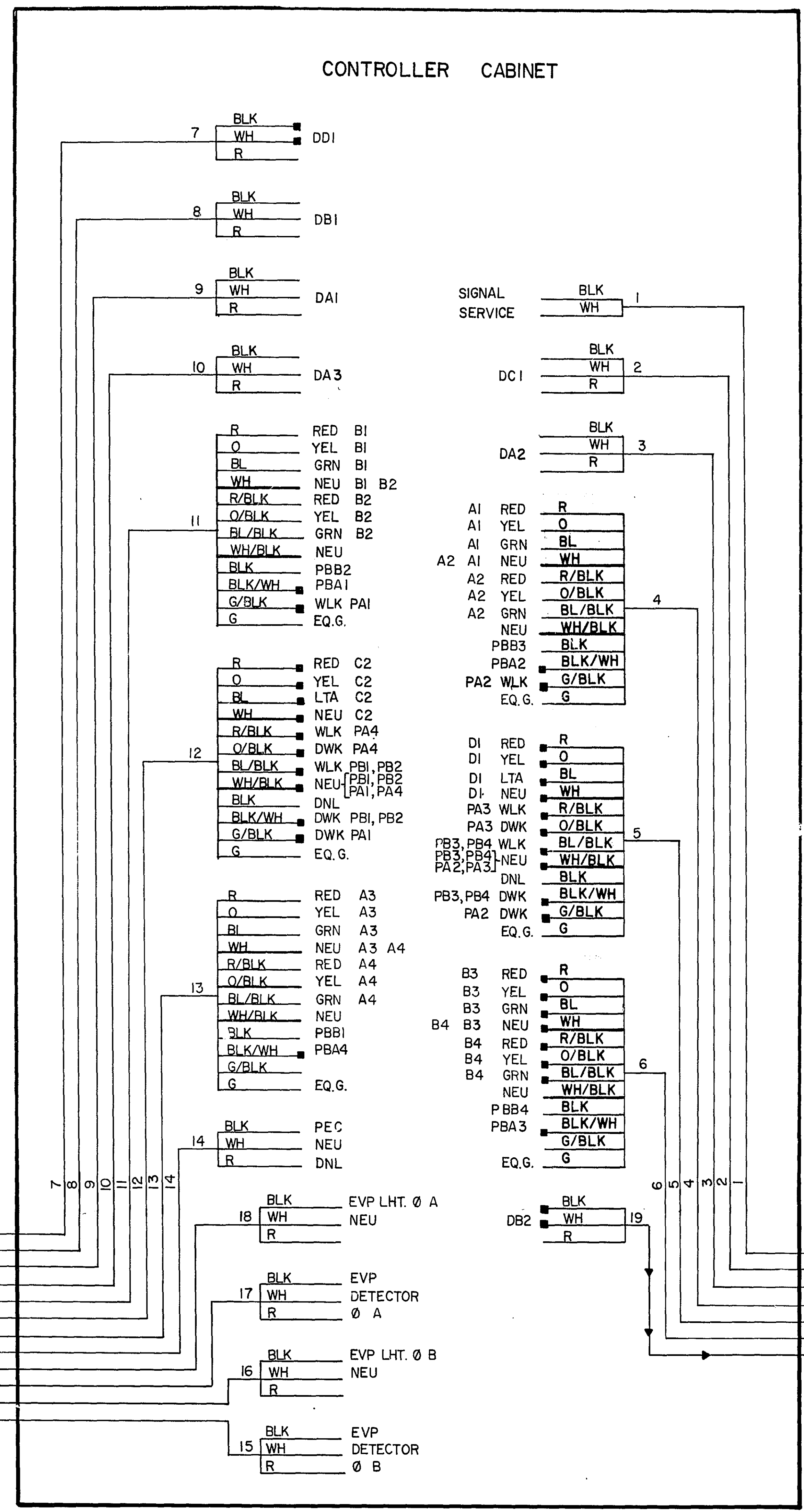
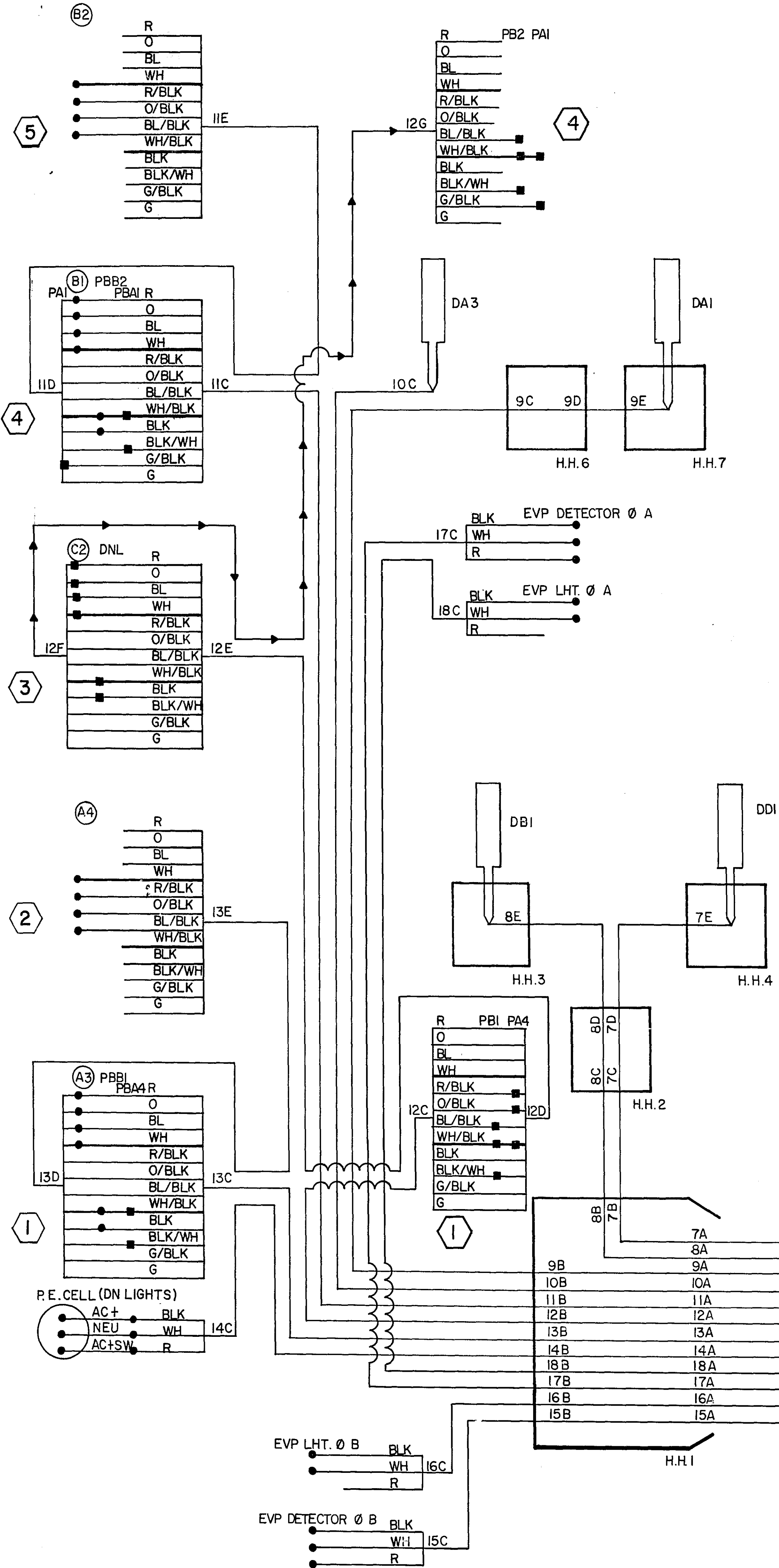
Drawn by R. Arndt
 Date: Feb 2 - 76
 Rev. No. 5031

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 539-31

INTERSECTION LAYOUT
 WHITE BEAR AVE. & LYDIA AVE.
 SYSTEM "C"

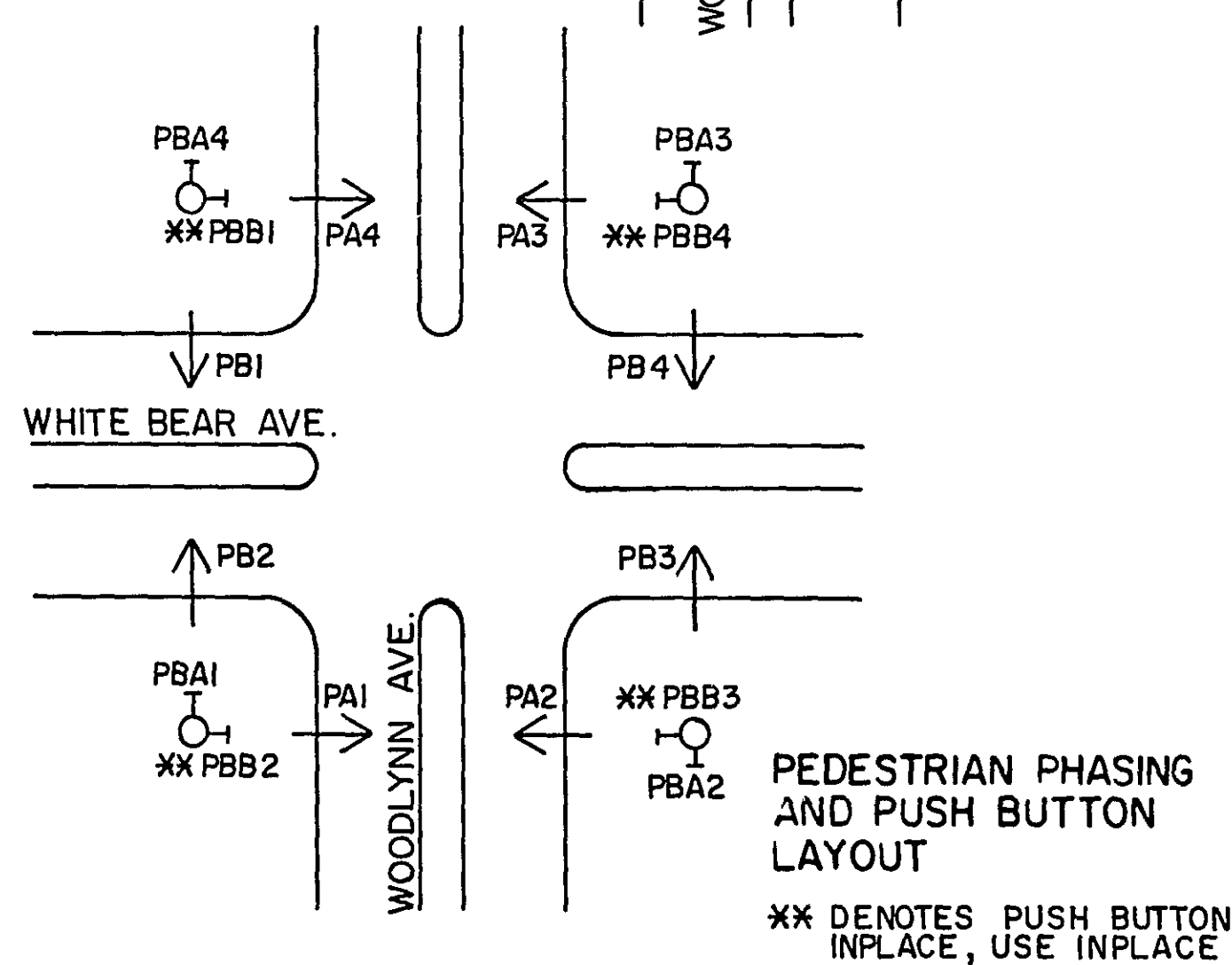
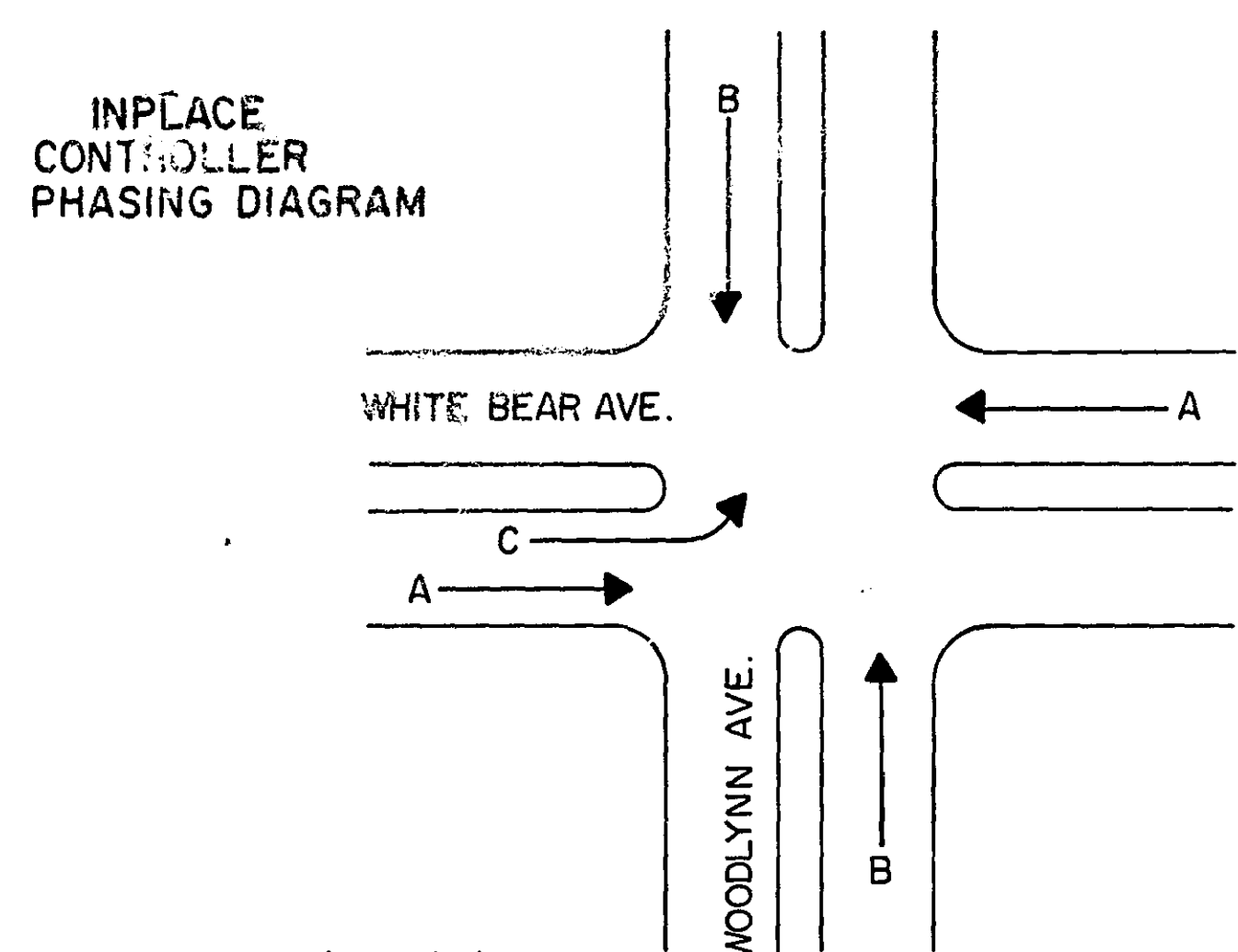
SHEET NO. 8 OF 23 SHEETS



■ NEW FIELD CONNECTION BY CONTRACTOR
 → NEW CABLE
 PULL EXISTING CABLE #5 BACK TO SIGNAL (5)
 AND EXTEND NEW CABLE AS SHOWN.

REVISED
 FIELD WIRING DIAGRAM
 WHITE BEAR AVE & LYDIA AVE.
 SYSTEM "C"
 Drawn R. Arnold
 Feb 2-76 5031

SIGNAL BASE NO.	(5)
SIGNAL FACE NO.	(A2)
CONTROLLER AND CABINET	[Symbol]
CONTROLLER AND CABINET-INPLACE	[Symbol]
HANDHOLE	[Symbol]
HANDHOLE-INPLACE	[Symbol]
RIGID STEEL CONDUIT (R.S.C.)	[Symbol]
RIGID STEEL CONDUIT (R.S.C.)-INPLACE	[Symbol]
SIGNAL FACE	[Symbol]
SIGNAL FACE WITH BACKGROUND SHIELD	[Symbol]
SIGNAL FACE - INPLACE	[Symbol]
PEDESTRIAN INDICATIONS	[Symbol]
PEDESTRIAN INDICATIONS - INPLACE	[Symbol]
PEDESTRIAN PUSH BUTTON ON PEDESTAL OR POLE	[Symbol]
PEDESTRIAN PUSH BUTTON STATION	[Symbol]
TRAFFIC SIGNAL PEDESTAL	[Symbol]
TRAFFIC SIGNAL PEDESTAL - INPLACE	[Symbol]
TRAFFIC SIGNAL POLE AND MAST ARM	[Symbol]
TRAFFIC SIGNAL POLE AND MAST ARM - INPLACE	[Symbol]
MAST ARM AND LUMINAIRE	[Symbol]
MAST ARM AND LUMINAIRE - INPLACE	[Symbol]
WOOD POLE	[Symbol]
WOOD POLE - INPLACE	[Symbol]
SOURCE OF POWER	[Symbol]
EMERGENCY VEHICLE PRE-EMPTION DETECTOR LOCATION	[Symbol]

[illegible]

RETURN SALVAGED SIGNAL
FACE C1 TO RAMSEY COUNTY

* SPECIAL SIGNAL FACE
(SEE SPECIAL PROVISIONS)

SCALE: 1" = 30'

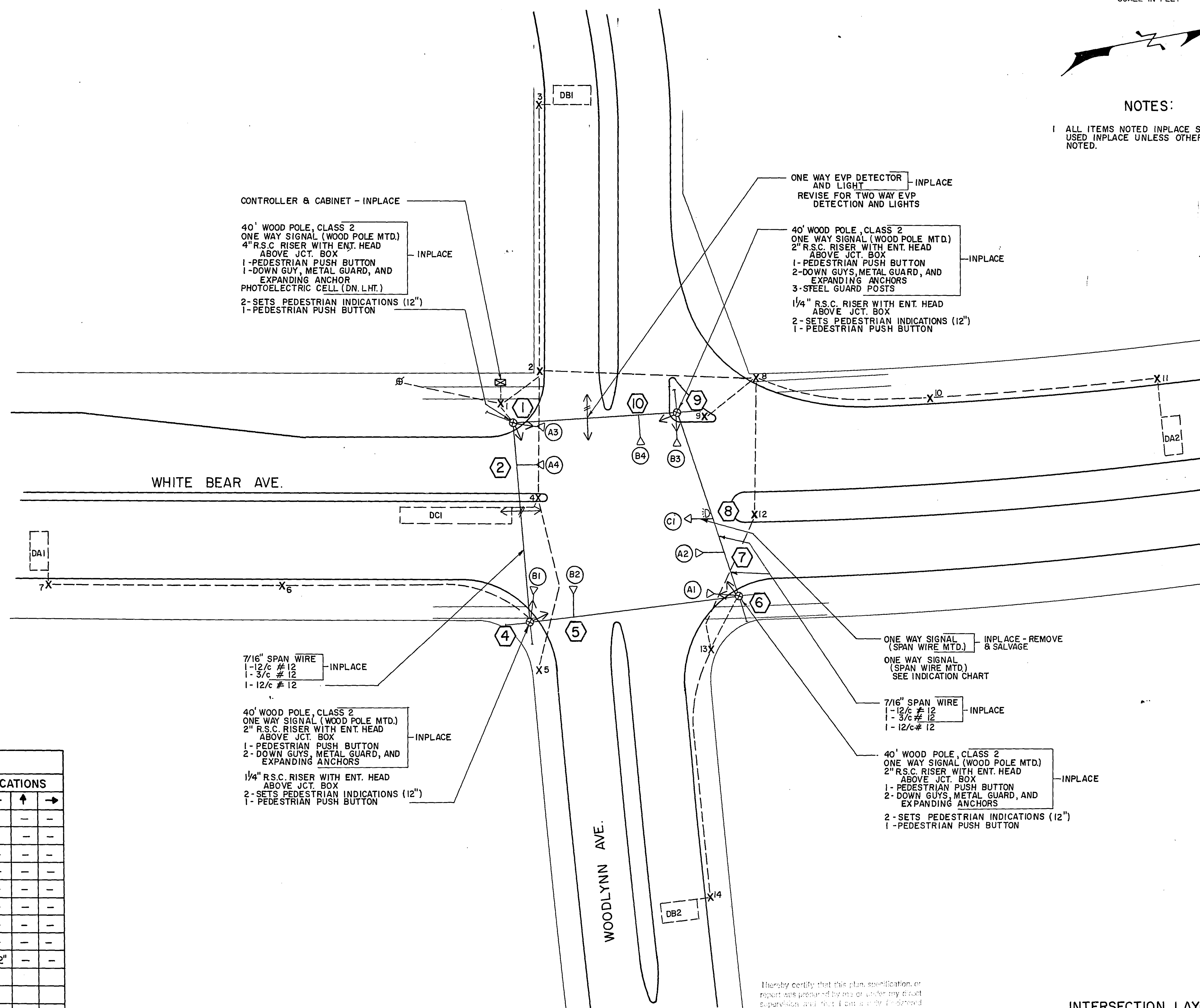


15 30 45 60 75

SCALE IN FEET

NOTES:

I ALL ITEMS NOTED INPLACE SHALL BE
USED INPLACE UNLESS OTHERWISE
NOTED.



Thereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Date Feb 2 - 76 Reg. No. 5031

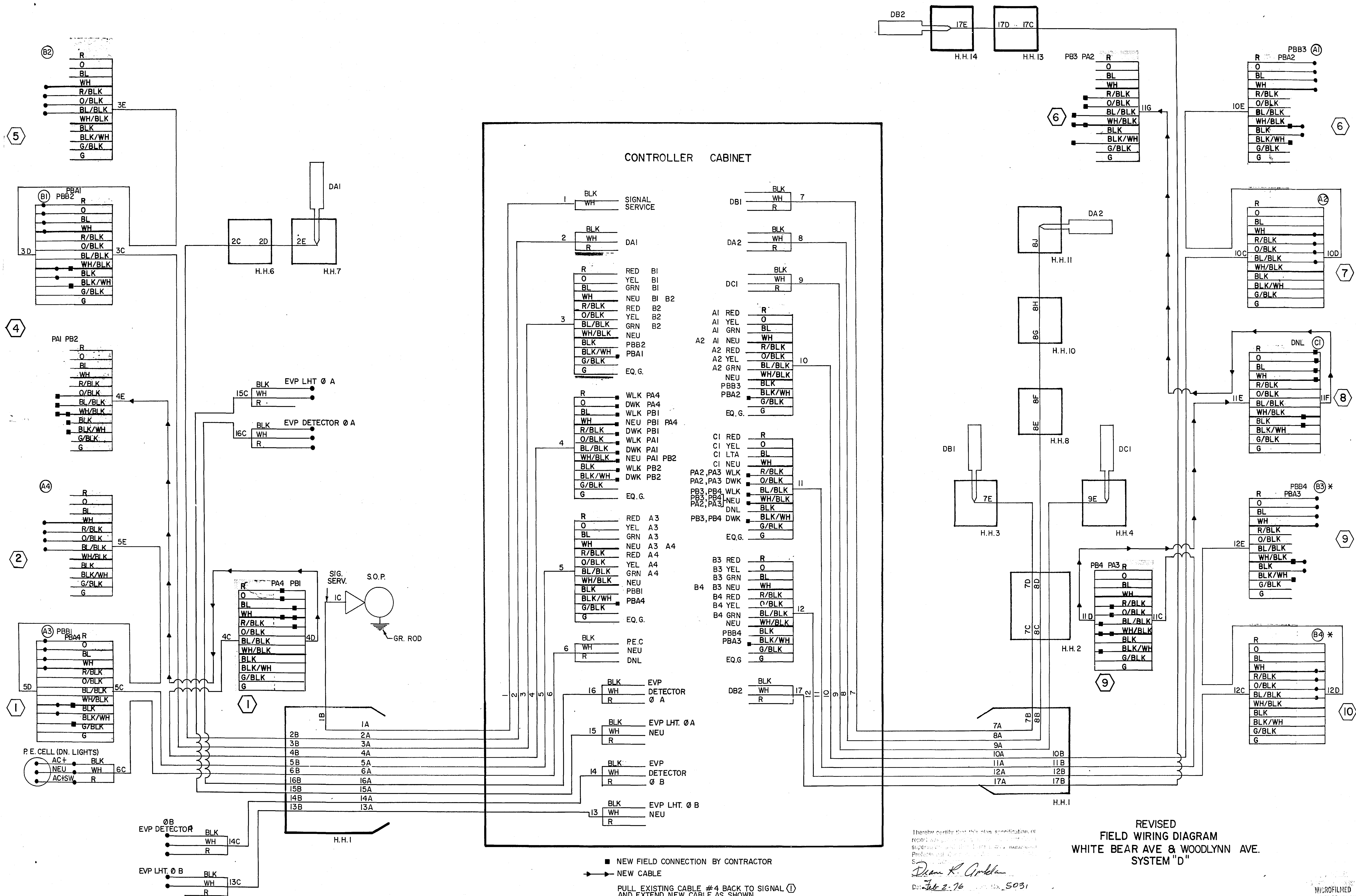
ACCOUNT NO. 50164

INTERSECTION LAYOUT
WHITE BEAR AVE. & WOODLYNN AVE.
SYSTEM "D"

MICROFILMED
RANNEY CO. ENER

CO. PROJ. NO. TRF 540-31

SHEET NO. 10 OF 23 SHEETS



Thereby 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 in the State of California.

Diane R. Appleman
Date: Feb 2, 76 License No. 5031

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 540-31

SHEET NO. 11 OF 23 SHEETS

23-105

SIGNALS

30' MAST ARM & POLE WITH STREET LIGHT SHAFT EXTENSION.
1-2-WAY INDICATION, OVER-HEAD M.T.D.
1-2-WAY INDICATION, SIDE-OF-POLE M.T.D. (325°)
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS
12' MAST ARM & LUMINAIRE (55°)
(SEE SPECIAL PROVISIONS).

1- 3" RMC
2- 12/C #12
4- 3/C #12
2- 1/C 6 TYPE R.H.W. OR T.H.W.

1- 1 1/4" RMC
1- 3/C #12

1- 3" RMC
2- 12/C #12
2- 3/C #12
2- 1/C 6 TYPE R.H.W. OR T.H.W.

1-2-WAY INDICATION, PEDESTAL M.T.D.
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS

SIGNALS

1- 3" RMC
2- 12/C #12
2- 3/C #12

1- 1 1/4" RMC
1- 3/C #12

LEGEND OF SIGNAL SYSTEM	
○	MAST ARM & POLE
□	PEDESTAL
■	HANDHOLE (PULL BOX)
□	CONTROLLER
⊗	SOURCE OF POWER
←	VEHICLE SIGNAL WITH BACKGROUND SHIELDS
←	PEDESTRIAN SIGNAL
⊥	PUSH-BUTTON
⊙	MAST ARM & LUMINAIRE
←	VEHICLE SIGNAL

COUNTY ROAD "B"

(CONC.)

LOOP DETECTOR (CALLING)
(SEE DETAIL NO. 2)

1- 1 1/4" RMC
1- 3/C #12

1- 1" RMC
2- 1/C #12 U.S.E.
TWIST 1-TURN/FT.

1- 3" RMC
3- 12/C #12
4- 3/C #12

SIGNALS

1-2-WAY INDICATION, PEDESTAL M.T.D.
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS

2- 3" RMC
6- 12/C #12
12- 3/C #12
2- 1/C 6 TYPE R.H.W. OR T.H.W.

STUB OUT 1 1/4" RMC
THREADED AND CAPPED
FOR FUTURE USE

1- 3" RMC
3- 12/C #12
6- 3/C #12
1- TURN/FT
2- 1/C 6 TYPE
R.H.W. OR T.H.W.

POSSIBLE
CABLE
X-ING

FUTURE

LOOP DETECTOR
(CALLING)
(SEE DETAIL
NO. 1)

1- 3" RMC
4- 12/C #12
4- 3/C #12
2- 1/C 6
TYPE R.H.W.
OR T.H.W.

30' MAST ARM & POLE WITH STREET LIGHT SHAFT EXTENSION.
1-2-WAY INDICATION, OVER-HEAD M.T.D.
1-2-WAY INDICATION, SIDE-OF-POLE M.T.D. (325°)
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS
12' MAST ARM & LUMINAIRE (55°)
(SEE SPECIAL PROVISIONS).

SIGNALS

BITUMINOUS SURFACE

PARKING AREA

FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"

PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

INTERSECTION LAYOUT
SYSTEM "E"

NOTES:

- ALL VEHICLE SIGNALS 12" DIAMETER.
PEDESTRIAN SIGNALS .9" RECTANGULAR.
- EXACT LOCATION OF ALL SIGNAL EQUIPMENT WILL
BE DETERMINED IN THE FIELD BY THE ENGINEER
- SEE DETAIL SHEETS FOR CONSTRUCTION
OF BASES, AND ALL OTHER SIGNAL
EQUIPMENT SPECIFICATIONS.

HAMLIN AVE. AND CO. RD. "B"

PROPOSED TRAFFIC SIGNAL SYSTEMS

SCALE IN FEET
0 10 20 40

RAMSEY COUNTY ENGINEERING DEPARTMENT

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 502-08

SHEET 12 OF 23 SHEETS

SIGNAL SEQUENCE CHART

SIGNAL	PHASE "A"	PHASE "B"
1	G G Y R R R	R R R
2	G G Y R R R	R R R
3	R R R G G Y	G G Y
4	R R R G G Y	G G Y
5	WALK D.W. D.W. D.W. D.W. D.W.	D.W. D.W. D.W. D.W. D.W. D.W.
6	D.W. D.W. D.W. WALK D.W. D.W.	D.W. D.W. D.W. WALK D.W. D.W.

SIGNAL FLASHING
FLASHING RED INDICATIONS
NUMBERED 1-2-3-4

SIGNALS

30' MAST ARM & POLE WITH STREET LIGHT SHAFT EXTENSION.
1-2-WAY INDICATION, OVER-HEAD M.T.D.
1-2-WAY INDICATION, SIDE-OF-POLE M.T.D. (325°)
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS
12' MAST ARM & LUMINAIRE (55°)
(SEE SPECIAL PROVISIONS).

1- 3" RMC
2- 12/C #12
4- 3/C #12
2- 1/C 6 TYPE R.H.W. OR T.H.W.

1- 1 1/4" RMC
1- 3/C #12

1- 3" RMC
2- 12/C #12
2- 3/C #12
2- 1/C #6
TYPE R.H.W. OR T.H.W.

1-2 WAY INDICATION, PEDESTAL M.T.D.
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS

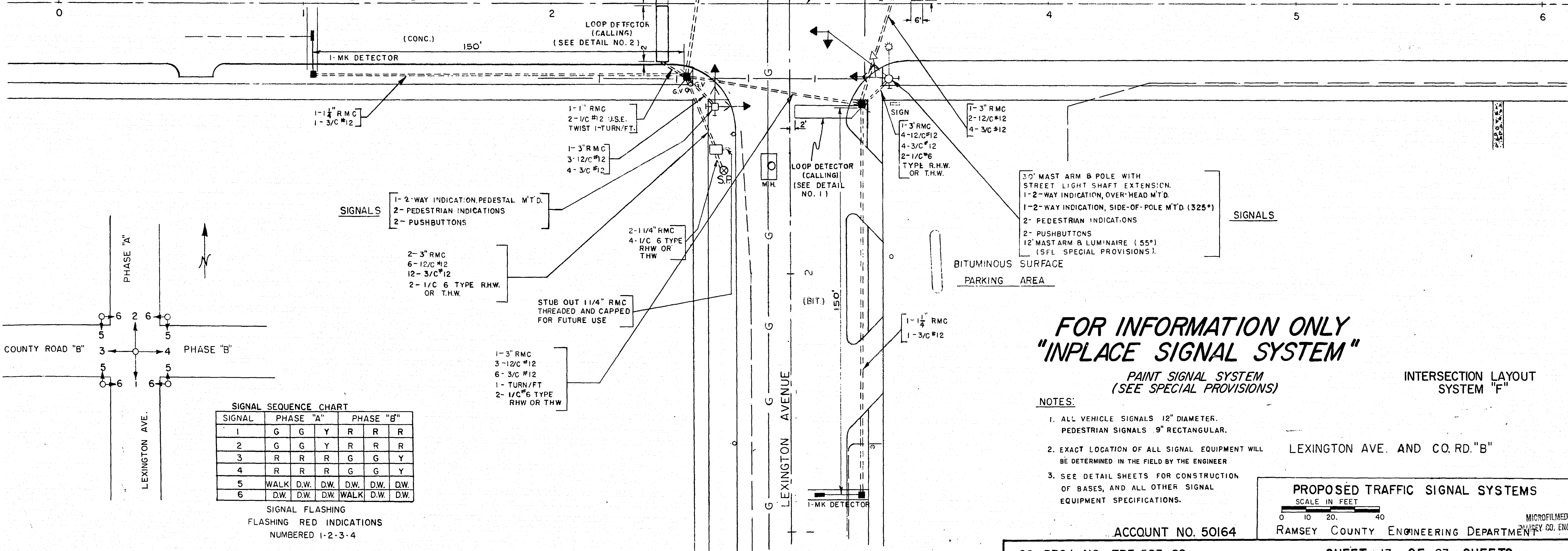
SIGNALS

1- 3" RMC
2- 12/C #12
2- 3/C #12

1- 1 1/4" RMC
1- 3/C #12

LEGEND OF SIGNAL SYSTEM	
○	MAST ARM & POLE
□	PEDESTAL
■	HANDHOLE (PULLBOX)
□	CONTROLLER
⊗	SOURCE OF POWER
◀	VEHICLE SIGNAL WITH BACKGROUND SHIELDS
◀	PEDESTRIAN SIGNAL
⊥	PUSH-BUTTON
⊙	MAST ARM & LUMINAIRE
◀	VEHICLE SIGNAL

COUNTY ROAD "B"



SIGNALS

1-2-WAY INDICATION, PEDESTAL M.T.D.
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS

2- 3" RMC
6- 12/C #12
12- 3/C #12
2- 1/C 6 TYPE R.H.W. OR T.H.W.

STUB OUT 1 1/4" RMC
THREADED AND CAPPED
FOR FUTURE USE

1- 3" RMC
3- 12/C #12
6- 3/C #12
1- TURN/FT
2- 1/C #6 TYPE
R.H.W. OR T.H.W.

LOOP DETECTOR
(CALLING)
(SEE DETAIL NO. 1)

1- 3" RMC
4- 12/C #12
4- 3/C #12
2- 1/C #6
TYPE R.H.W. OR T.H.W.

30' MAST ARM & POLE WITH STREET LIGHT SHAFT EXTENSION.
1-2-WAY INDICATION, OVER-HEAD M.T.D.
1-2-WAY INDICATION, SIDE-OF-POLE M.T.D. (325°)
2- PEDESTRIAN INDICATIONS
2- PUSHBUTTONS
12' MAST ARM & LUMINAIRE (55°)
(SEE SPECIAL PROVISIONS).

SIGNALS

SIGNAL SEQUENCE CHART

SIGNAL	PHASE "A"	PHASE "B"
1	G	G Y R R R
2	G	G Y R R R
3	R	R R G G Y
4	R	R R G G Y
5	WALK	D.W. D.W. D.W. D.W.
6	D.W.	D.W. D.W. D.W. D.W.

SIGNAL FLASHING
FLASHING RED INDICATIONS
NUMBERED 1-2-3-4

FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"

PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

INTERSECTION LAYOUT
SYSTEM "F"

NOTES:

- ALL VEHICLE SIGNALS 12" DIAMETER.
PEDESTRIAN SIGNALS 9" RECTANGULAR.
- EXACT LOCATION OF ALL SIGNAL EQUIPMENT WILL
BE DETERMINED IN THE FIELD BY THE ENGINEER
- SEE DETAIL SHEETS FOR CONSTRUCTION
OF BASES, AND ALL OTHER SIGNAL
EQUIPMENT SPECIFICATIONS.

LEXINGTON AVE. AND CO. RD. "B"

PROPOSED TRAFFIC SIGNAL SYSTEMS

SCALE IN FEET
0 10 20 40

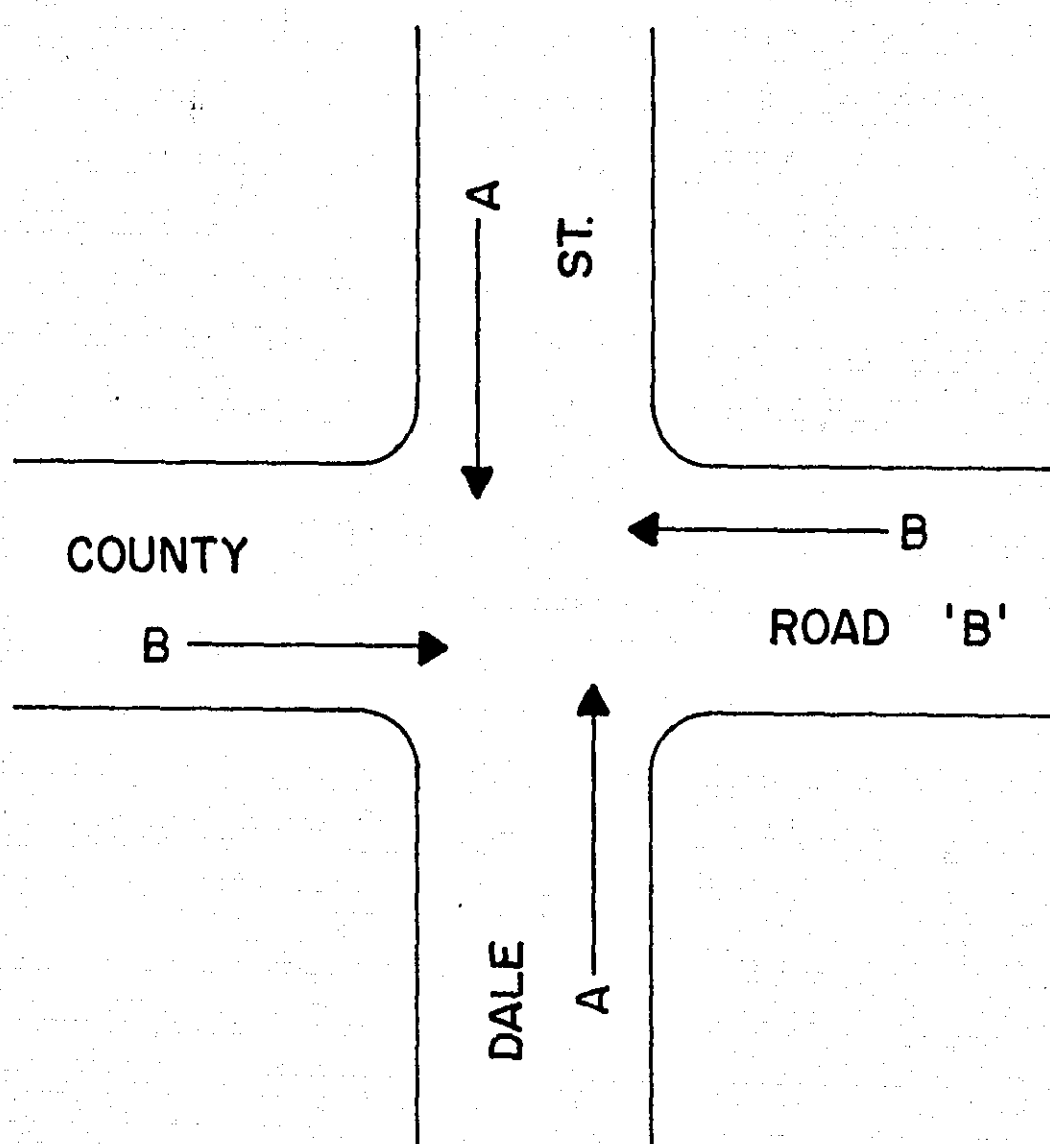
RAMSEY COUNTY ENGINEERING DEPARTMENT

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 503-08

SHEET 13 OF 23 SHEETS

LEGEND OF SYMBOLS	
	CONTROLLER
	PEDESTAL
	HANDHOLE (PULLBOX)
	RIGID METALLIC CONDUIT (R.M.C.)
	MAST ARM & POLE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	MAST ARM & LUMINAIRE
	PEDESTRIAN INDICATION
	PEDESTRIAN PUSH BUTTON
	SOURCE OF POWER
	METAL GUARD POST

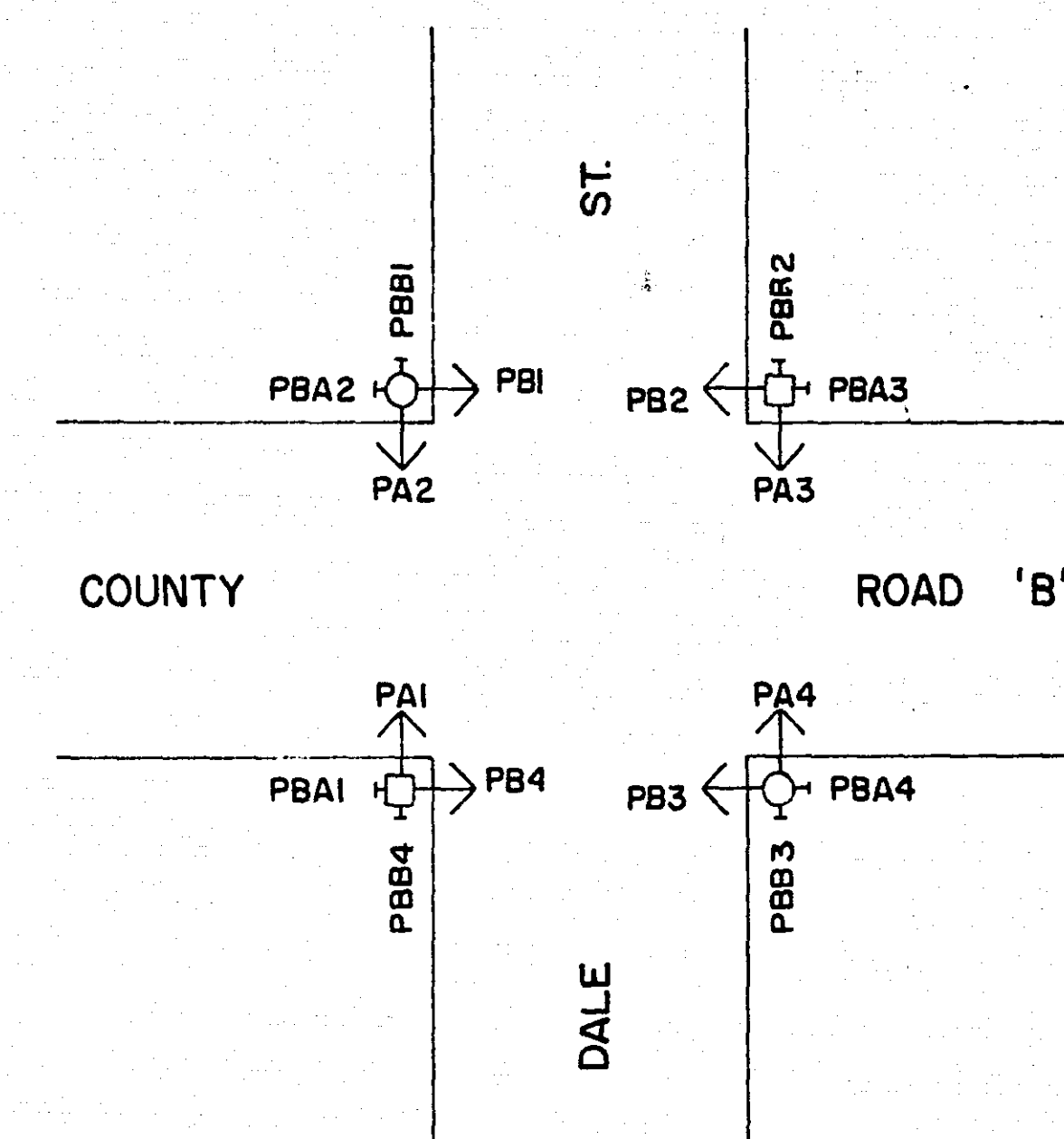
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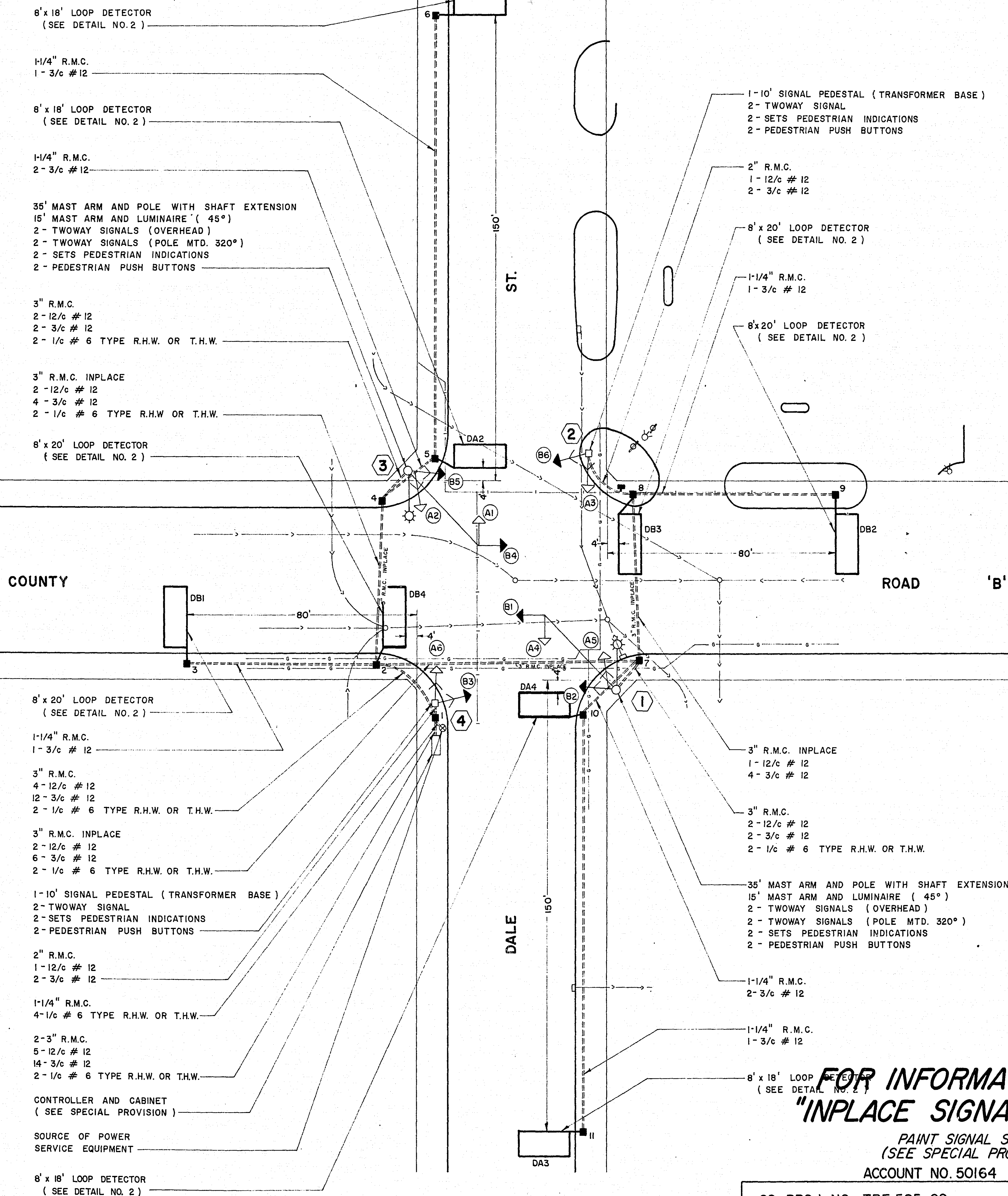
DISTANCE IN FEET



PED. IND. & PUSHBUTTON
LAYOUT



NOTE: 3" R.M.C. INPLACE BETWEEN
PULLBOXES 8-7, 7-2, 2-4



FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"

PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

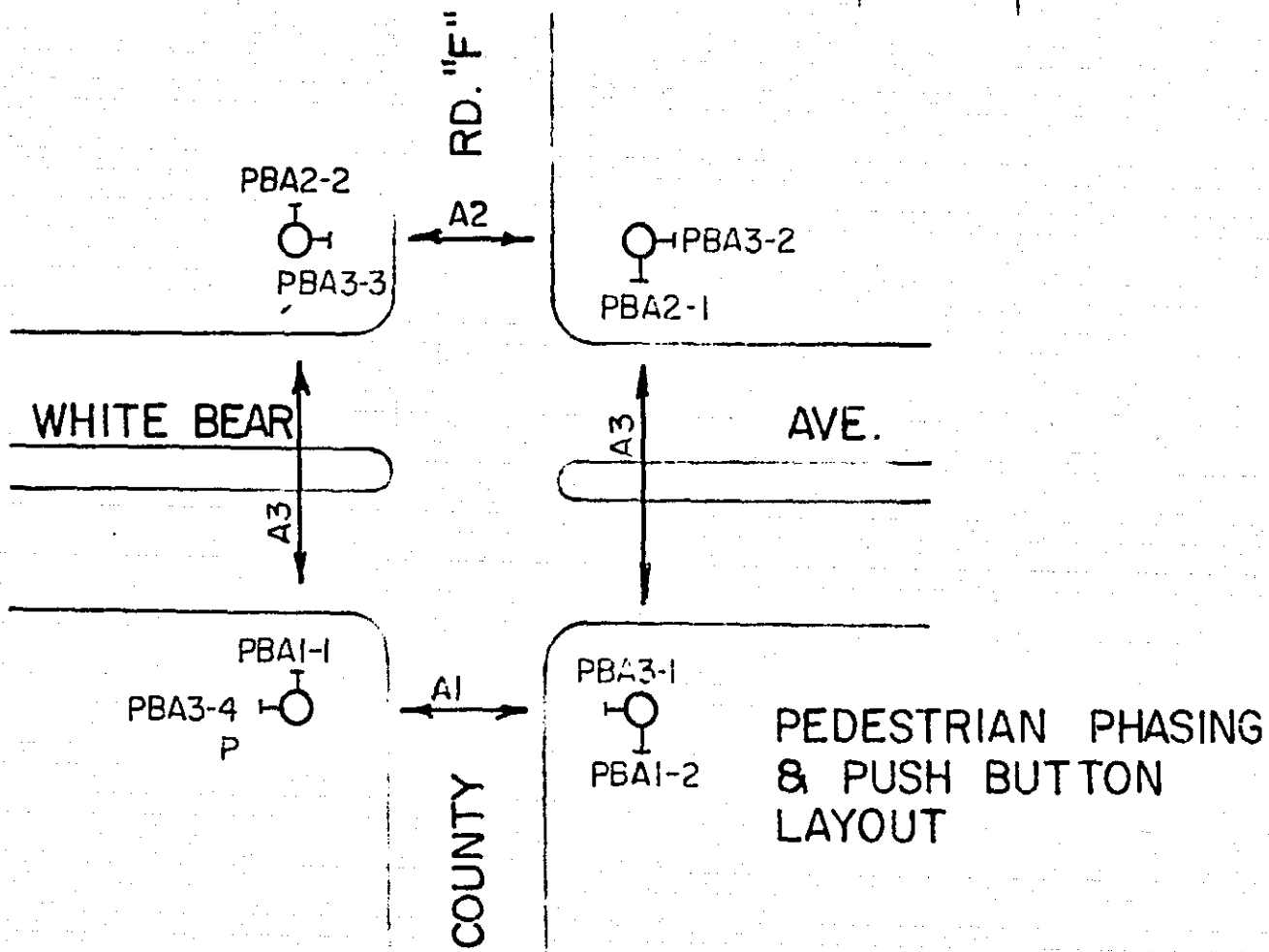
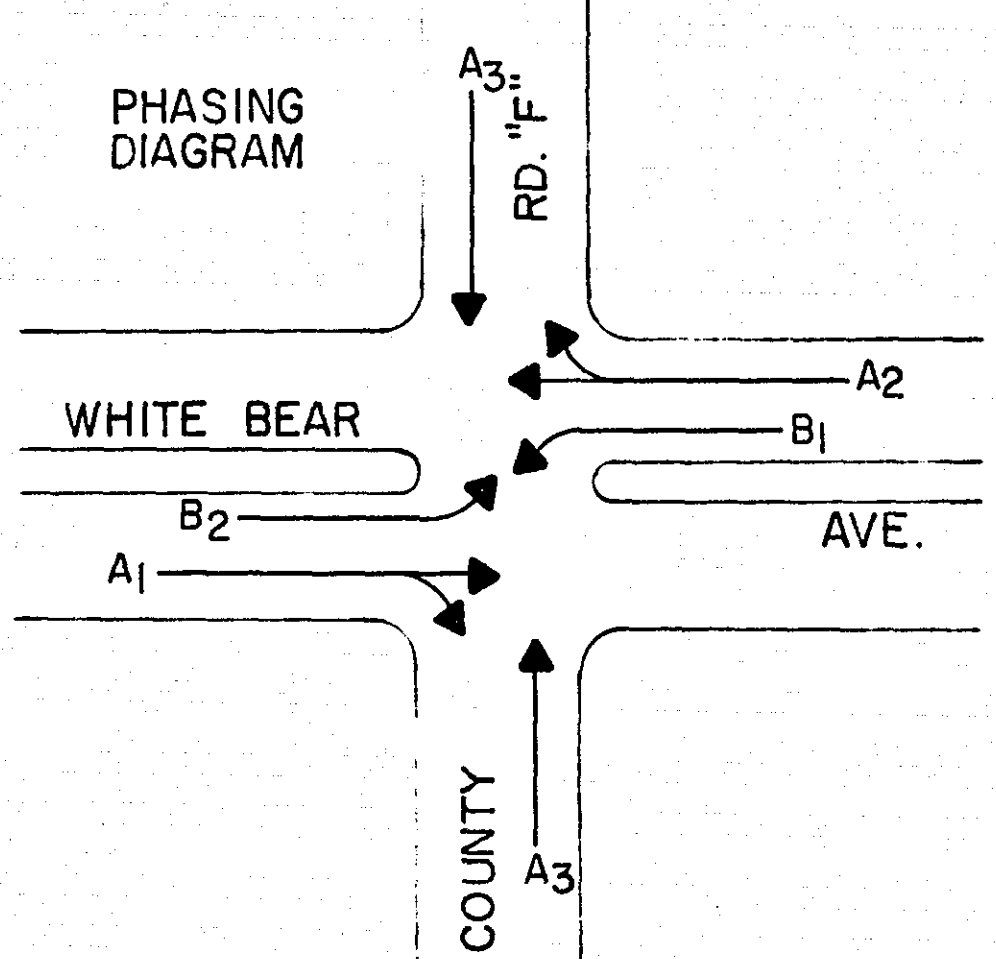
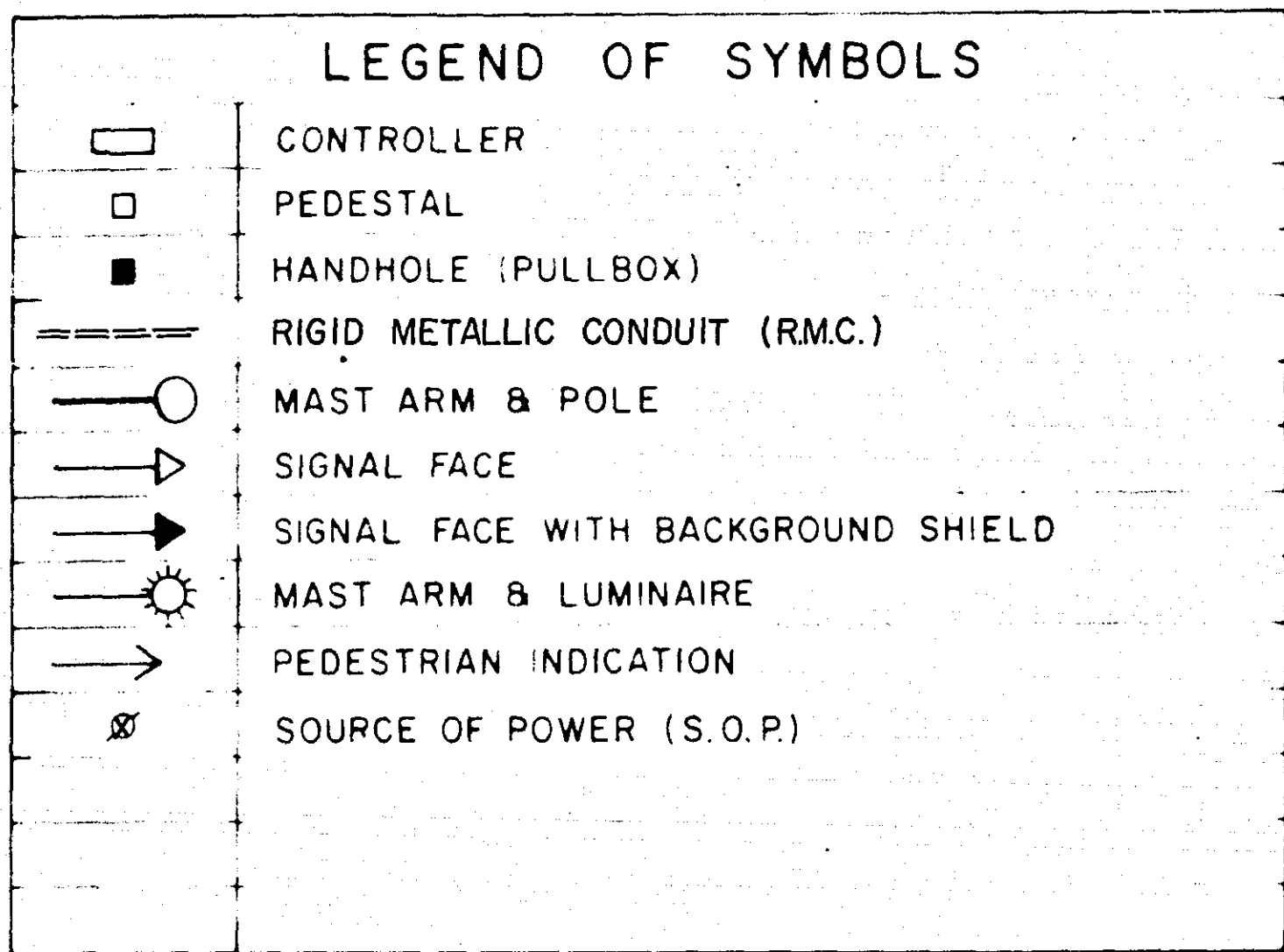
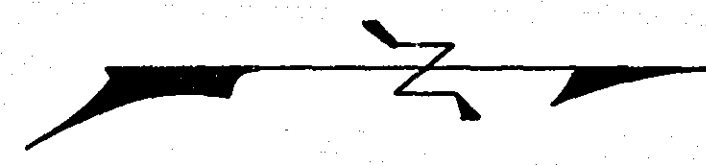
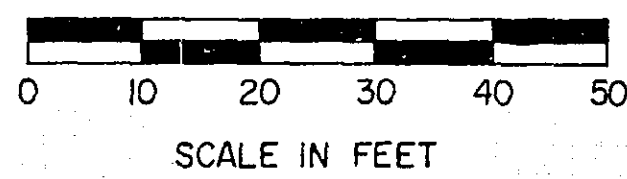
ACCOUNT NO. 50164

INTERSECTION LAYOUT
SYSTEM "G"

MICROFILMED
PAMSEY CO. EN

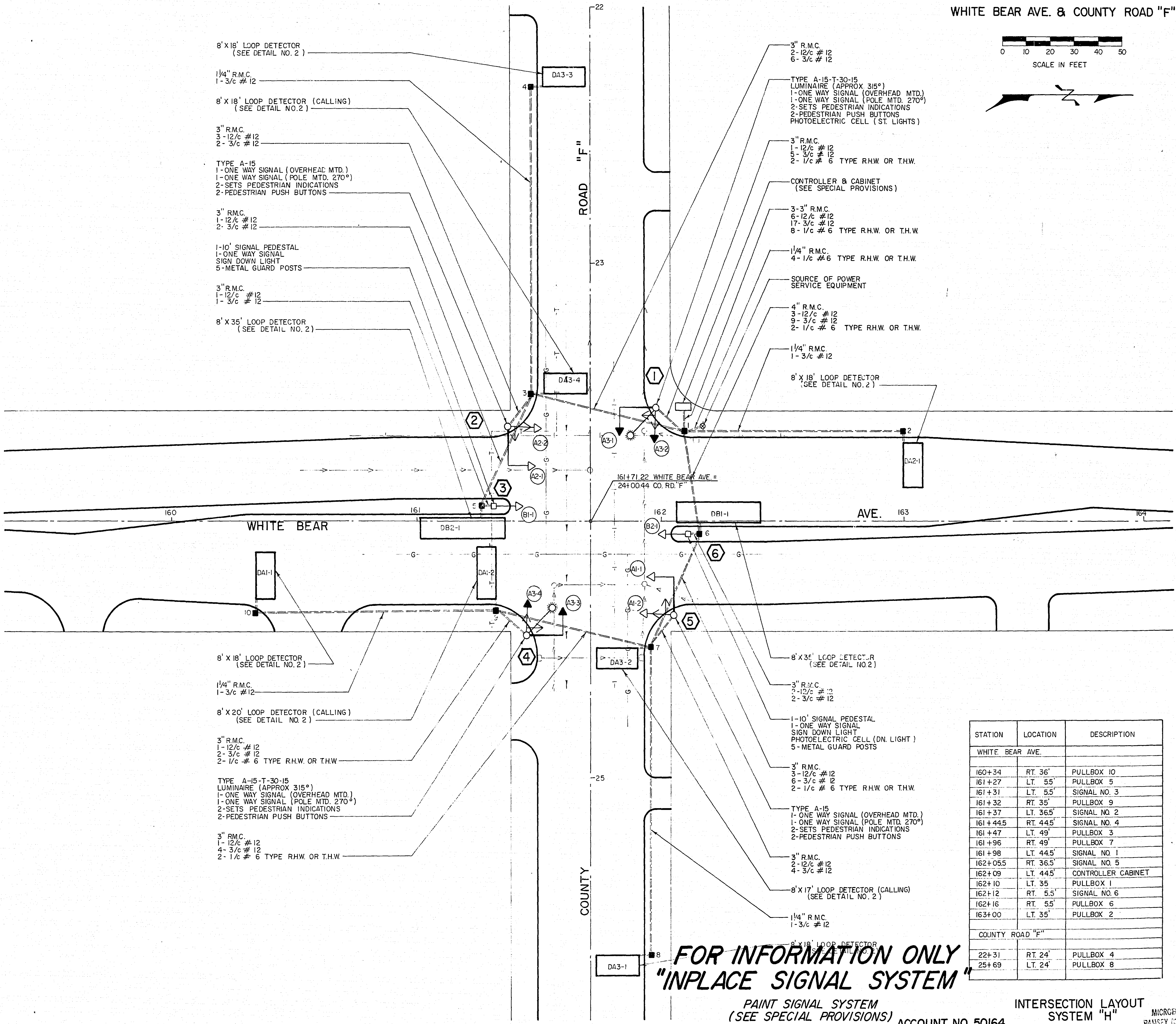
CO. PROJ. NO. TRF 505-08

Sheet No. 14 of 23 Sheets

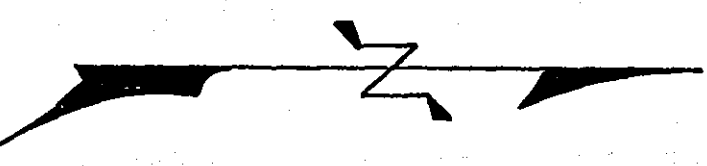
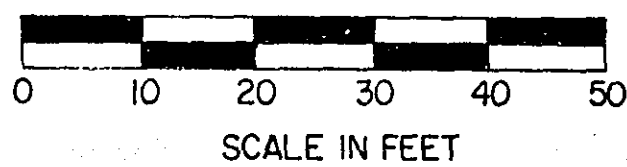


FACE	PHASE	FLASH	INDICATION SIZE			←	↑	→
			R	Y	G			
A1-1	A1	R	12"	12"	-	-	12"	12"
A1-2	A1	R	12"	12"	-	-	12"	12"
A2-1	A2	R	12"	12"	-	-	12"	12"
A2-2	A2	R	12"	12"	-	-	12"	12"
A3-1	A3	R	12"	12"	12"	-	-	-
A3-2	A3	R	12"	12"	12"	-	-	-
A3-3	A3	R	12"	12"	12"	-	-	-
A3-4	A3	R	12"	12"	12"	-	-	-
* B1-1	B1	R	12"	12"	-	12"	-	-
* B2-1	B2	R	12"	12"	-	12"	-	-

* SEE SPECIAL PROVISIONS

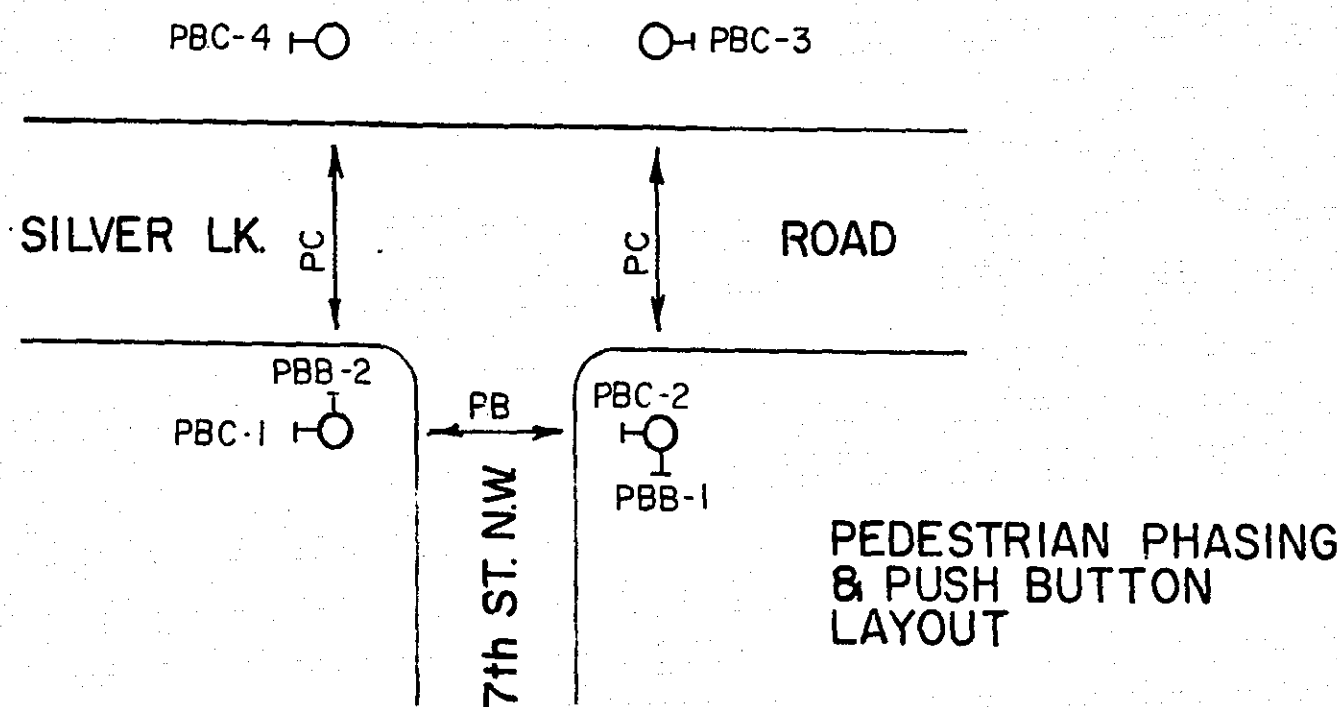
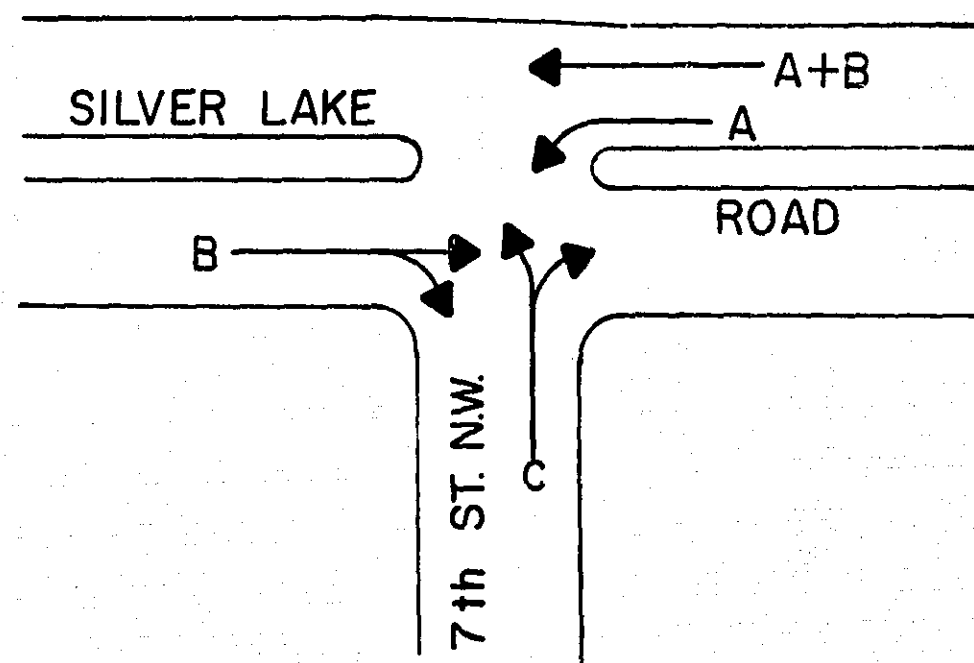


STATION	LOCATION	DESCRIPTION
WHITE BEAR AVE.		
160+34	RT. 36'	PULLBOX 10
161+27	LT. 55'	PULLBOX 5
161+31	LT. 55'	SIGNAL NO. 3
161+32	RT. 35'	PULLBOX 9
161+37	LT. 36.5'	SIGNAL NO. 2
161+44.5	RT. 44.5'	SIGNAL NO. 4
161+47	LT. 49'	PULLBOX 3
161+96	RT. 49'	PULLBOX 7
161+98	LT. 44.5'	SIGNAL NO. 1
162+05.5	RT. 36.5'	SIGNAL NO. 5
162+09	LT. 44.5'	CONTROLLER CABINET
162+10	LT. 35'	PULLBOX 1
162+12	RT. 5.5'	SIGNAL NO. 6
162+16	RT. 55'	PULLBOX 6
163+00	LT. 35'	PULLBOX 2
COUNTY ROAD "F"		
22+31	RT. 24'	PULLBOX 4
25+69	LT. 24'	PULLBOX 8



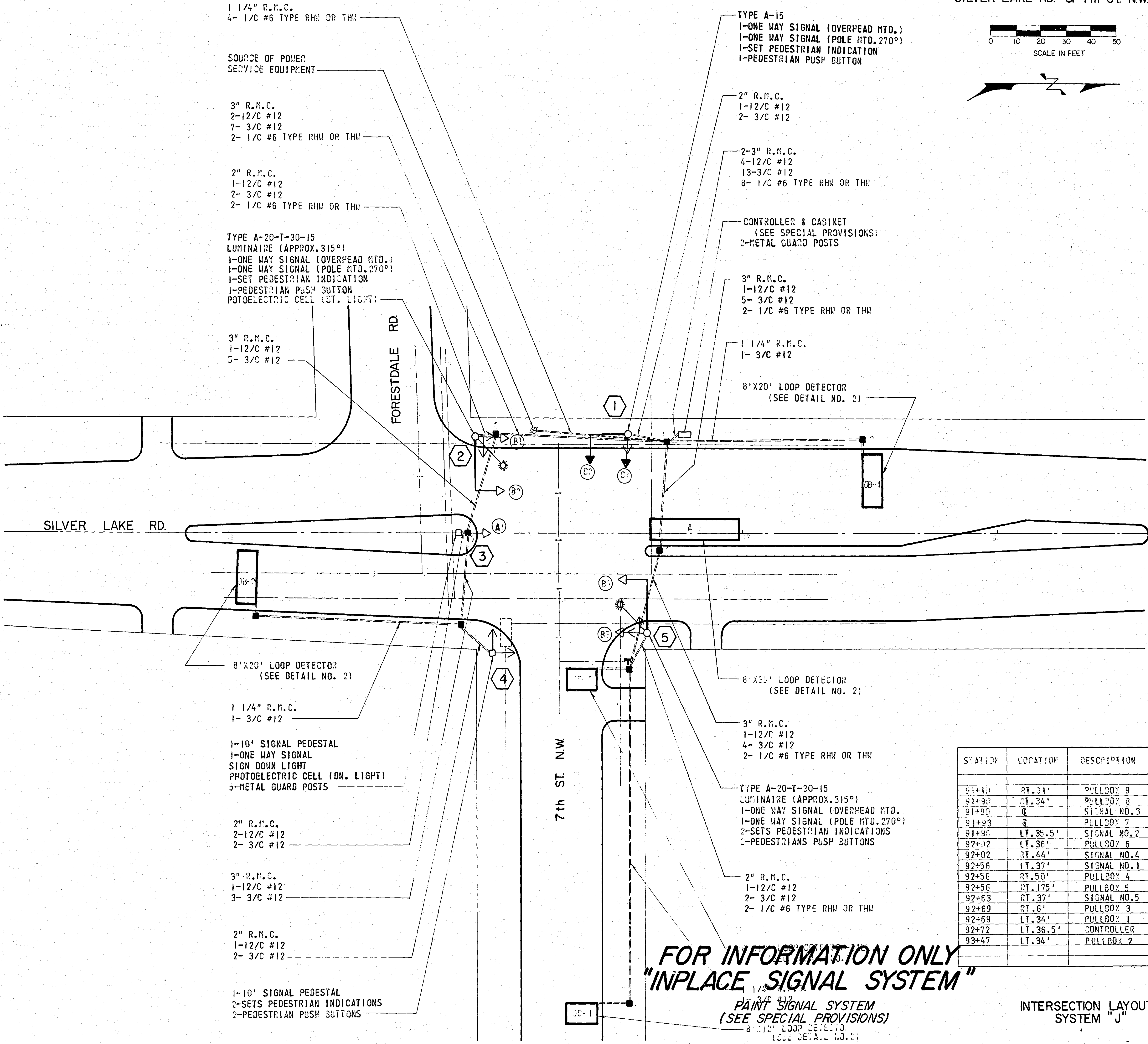
LEGEND OF SYMBOLS	
	CONTROLLER
	PEDESTAL
	HANDHOLE (PULLBOX)
	RIGID METALLIC CONDUIT (R.M.C.)
	MAST ARM & POLE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	MAST ARM & LUMINAIRE
	PEDESTRIAN INDICATION
	SOURCE OF POWER (S.O.P.)

PHASING
DIAGRAM



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
B1	A+B	R	12"	12"	-	-	12"	-
B2	A+B	R	12"	12"	-	-	12"	-
B3	B	R	12"	12"	12"	-	-	-
B4	B	R	12"	12"	12"	-	-	-
C1	C	R	12"	12"	12"	-	-	-
C2	C	R	12"	12"	12"	-	-	-
* A1	A	R	12"	12"	-	12"	-	-

* SEE SPECIAL PROVISIONS



STATION	LOCATION	DESCRIPTION
91+4.1	RT. 31'	PULLBOX 9
91+9.0	RT. 34'	PULLBOX 8
91+9.0	C	SIGNAL NO. 3
91+9.3	C	PULLBOX 7
91+9.6	LT. 35.5'	SIGNAL NO. 2
92+3.2	LT. 36'	PULLBOX 6
92+0.2	RT. 44'	SIGNAL NO. 4
92+5.6	LT. 37'	SIGNAL NO. 1
92+5.6	RT. 50'	PULLBOX 4
92+5.6	RT. 125'	PULLBOX 5
92+6.3	RT. 37'	SIGNAL NO. 5
92+6.9	RT. 6'	PULLBOX 3
92+6.9	LT. 34'	PULLBOX 1
92+7.2	LT. 36.5'	CONTROLLER
93+4.7	LT. 34'	PULLBOX 2

FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"
PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)
8'X20' LOOP DETECTOR
(SEE DETAIL NO. 2)

INTERSECTION LAYOUT
SYSTEM "J"

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 535-08

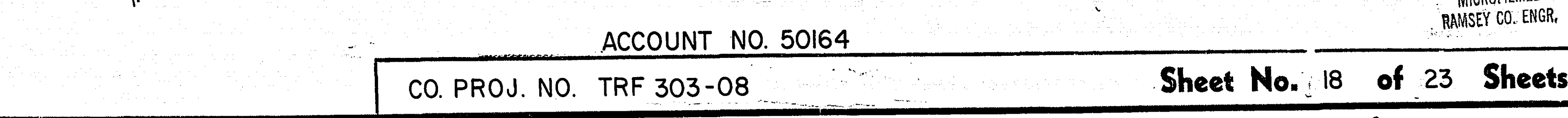
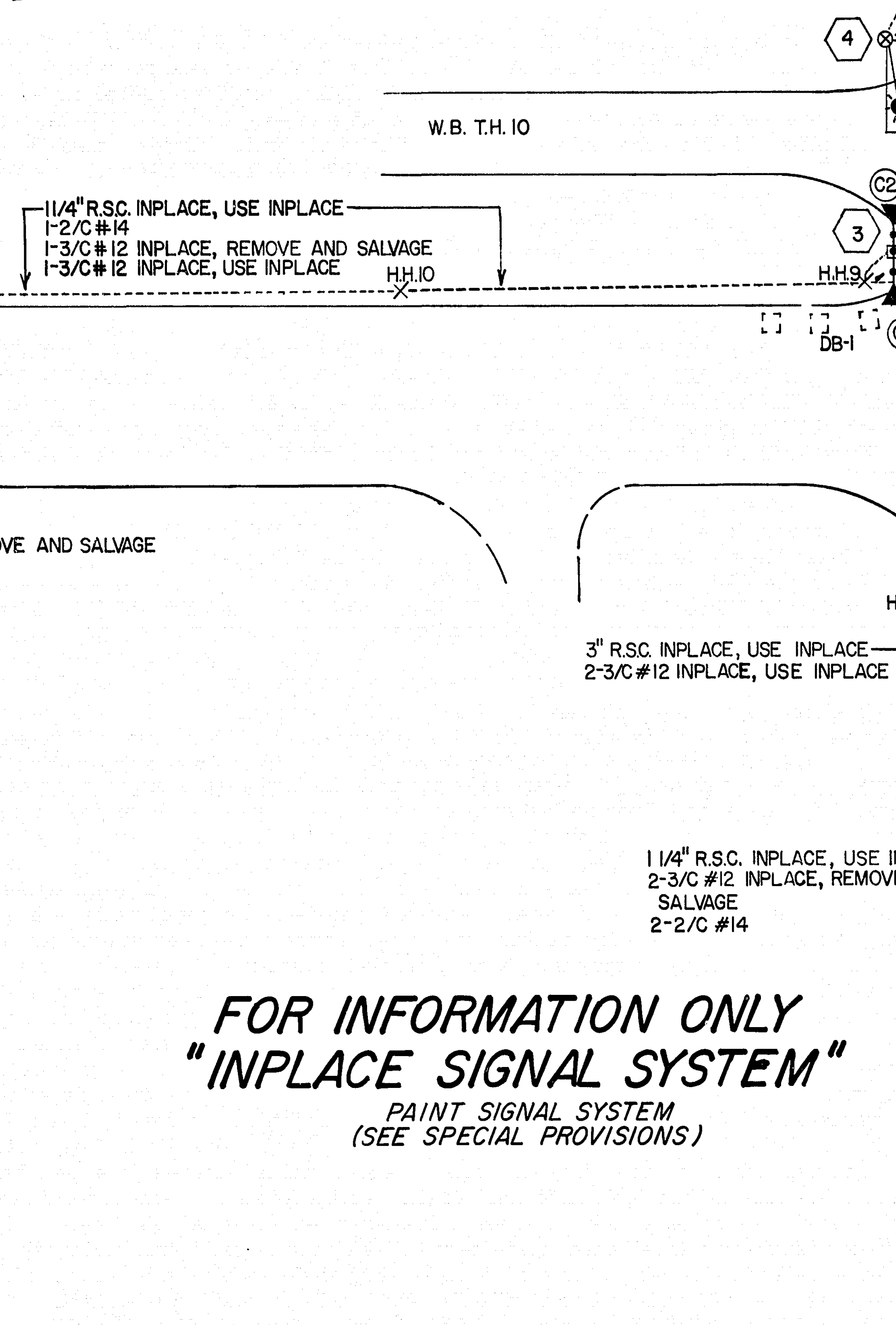
SHEET NO. 16 OF 23 SHEETS

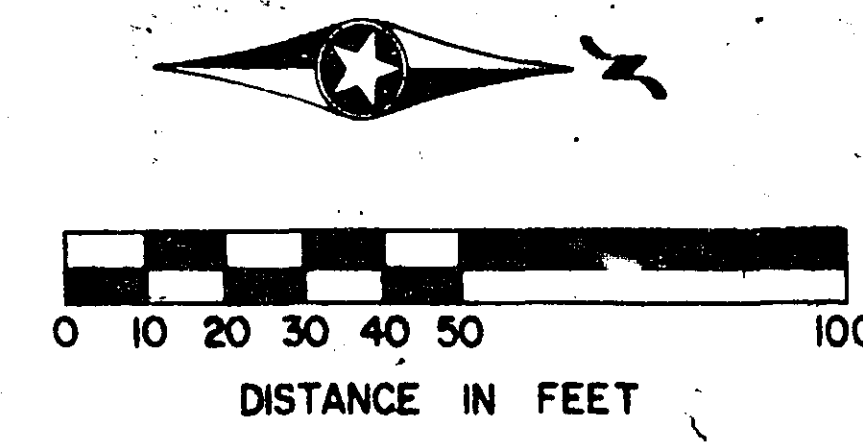
MICROFILMED
HARVEY CO. ENGR.

23-105

*- PROVIDE NEW HEAD (ALL OTHERS INPLACE)
NOTE:
1. REMOVE AND SALVAGE INPLACE CABLES #5 AND 8 (2-3/C#
INSTALL NEW CABLES #5 AND 8 (2-2/C#14)
2. RETAIN ALL INPLACE ITEMS UNLESS OTHERWISE NOTED

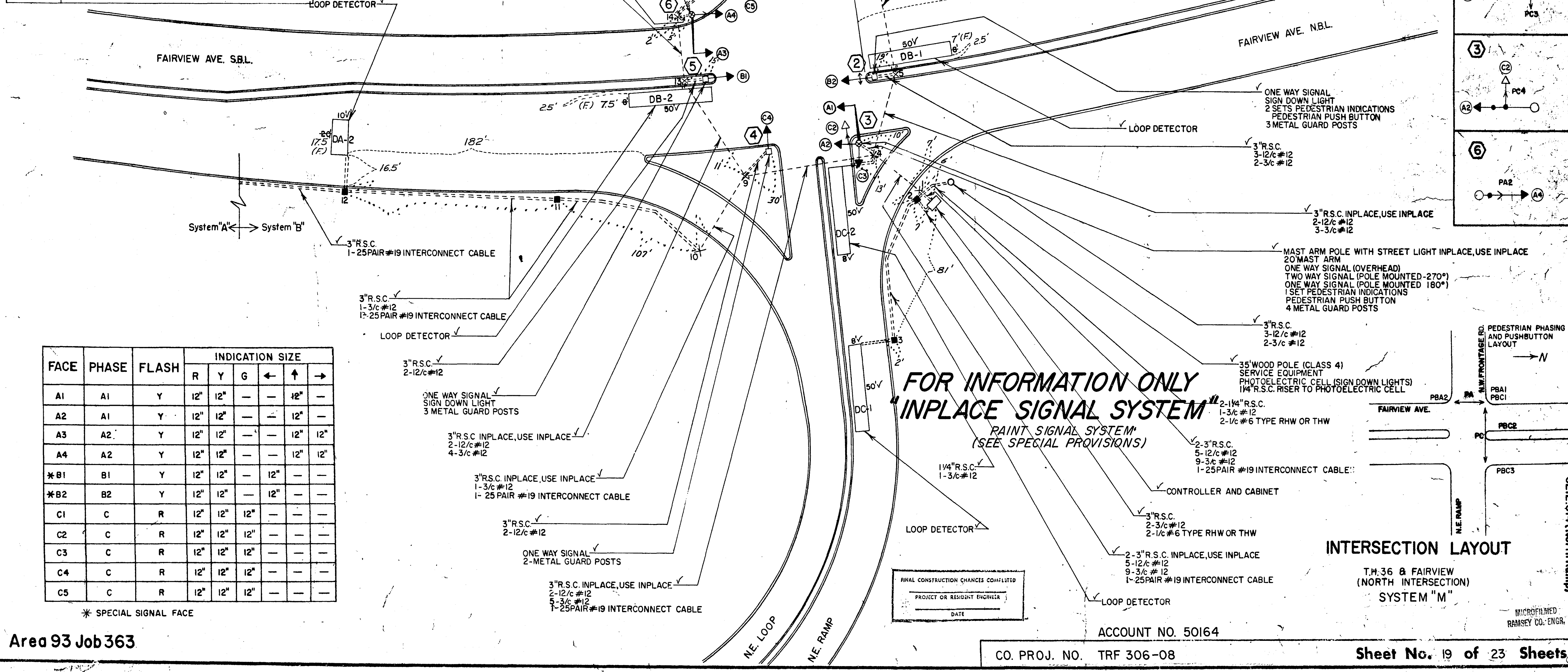
the 1990s, the number of people in the world who are under 15 years of age is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2015. The number of people aged 65 and over is expected to increase by 1.1 billion, from 0.4 billion in 1990 to 1.5 billion in 2015. The number of people aged 15-64 is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2015. The number of people aged 65 and over is expected to increase by 1.1 billion, from 0.4 billion in 1990 to 1.5 billion in 2015. The number of people aged 15-64 is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2015.





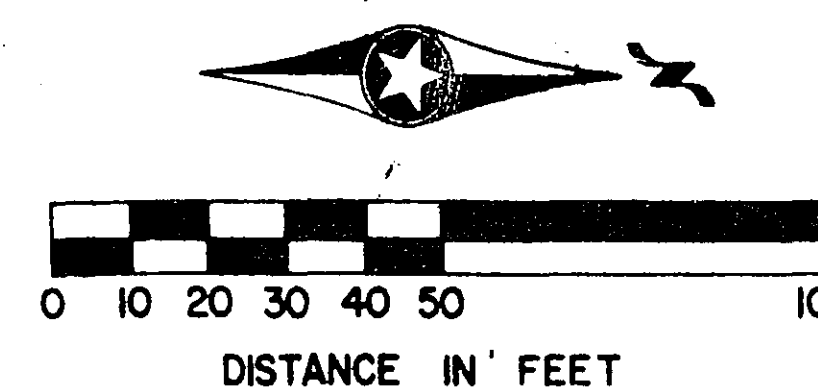
LEGEND OF SYMBOLS	
	CONTROLLER AND CABINET
	PEDESTAL
	HANDHOLE (PULLBOX)
	RIGID STEEL CONDUIT (R.S.C.)
	MAST ARM
	POLE AND FOUNDATION INPLACE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	PEDESTRIAN INDICATION
	PEDESTRIAN PUSH BUTTON STATION
	HANDHOLE (PULLBOX) INPLACE
	RIGID STEEL CONDUIT (R.S.C.) INPLACE
	WOOD POLE

MAST ARM POLE WITH STREET LIGHT INPLACE, USE INPLACE
20' MAST ARM
ONE WAY SIGNAL (POLE MOUNTED -270°)
1 SET PEDESTRIAN INDICATIONS
PEDESTRIAN PUSH BUTTON
3 METAL GUARD POSTS



FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1	A1	Y	12"	12"	—	—	12"	—
A2	A1	Y	12"	12"	—	—	12"	—
A3	A2	Y	12"	12"	—	—	12"	12"
A4	A2	Y	12"	12"	—	—	12"	12"
*B1	B1	Y	12"	12"	—	12"	—	—
*B2	B2	Y	12"	12"	—	12"	—	—
C1	C	R	12"	12"	12"	—	—	—
C2	C	R	12"	12"	12"	—	—	—
C3	C	R	12"	12"	12"	—	—	—
C4	C	R	12"	12"	12"	—	—	—
C5	C	R	12"	12"	12"	—	—	—

* SPECIAL SIGNAL FACE



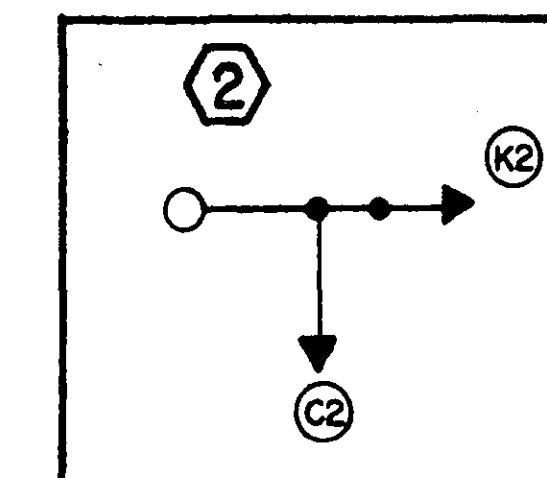
LEGEND OF SYMBOLS	
	CONTROLLER AND CABINET
	PEDESTAL
	HANDHOLE (PULLBOX)
	RIGID STEEL CONDUIT (R.S.C.)
	RIGID STEEL CONDUIT (R.S.C.) INPLACE
	MAST ARM & POLE
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	HANDHOLE (PULLBOX) INPLACE
	WOOD POLE

FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	↑	→
A1	A	Y	12"	12"	—	—	12"	—
A2	A	Y	12"	12"	—	—	12"	—
* B1	B	Y	12"	12"	—	12"	—	—
C1	C	R	12"	12"	12"	—	—	—
C2	C	R	12"	12"	12"	—	—	—
K1	A+B	Y	12"	12"	—	—	12"	—
K2	A+B	Y	12"	12"	—	—	12"	—

*SPECIAL SIGNAL FACE

FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"
PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

BRACKETS FOR
SIGNAL MOUNTING



INTERSECTION LAYOUT

T.H.36 & FAIRVIEW
(SOUTH INTERSECTION)
SYSTEM "N"

FINAL CONSTRUCTION CHANGES COMPLETED
PROJECT OR RESUBMIT DESIGNER
DATE

ACCOUNT NO. 50164

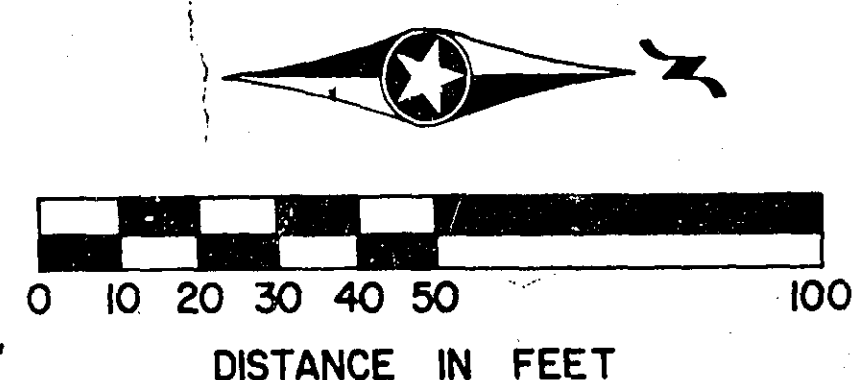
CO. PROJ. NO. TRF 307-08

Sheet No. 20 of 23 Sheets

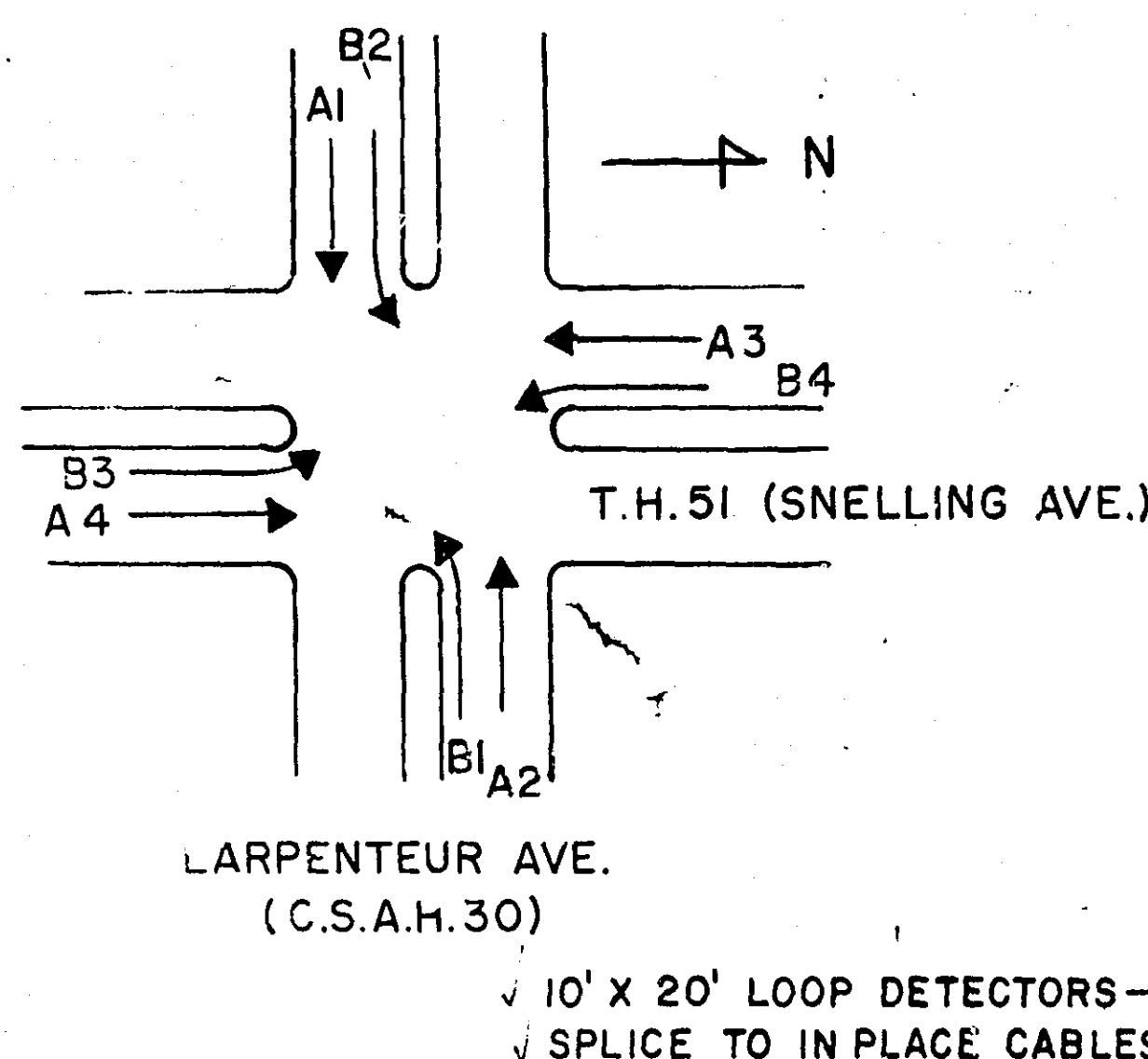
Area 93 Job 363

MICROFILMED
RAMSEY CO. ENGR.

23-105



CONTROLLER PHASING
DIAGRAM



LARPENTEUR AVE.
(C.S.A.H. 30)

T.H. 51 (SNELLING AVE.)

T.H. 51 (SNELLING AVE.)

FRONTAGE ROAD

REVISE SIGNAL FACE 5A
(SEE INDICATION CHART)

REVISE SIGNAL FACES 7 & 8
(SEE INDICATION CHART)

MAGNETIC DETECTORS INPLACE
REMOVE AND SALVAGE
ABANDON INPLACE N.M.C.

8' X 8' LOOP DETECTORS
SPLICE TO IN PLACE CABLE AS
FOLLOWS:
CABLE NO. 1 TO D-1 AND D-13
CABLE NO. 2 TO D-2
5(F)

MAGNETIC DETECTORS INPLACE
REMOVE AND SALVAGE
ABANDON INPLACE N.M.C.

REVISE SIGNAL FACES 1, 5 & 8A
(SEE INDICATION CHART)

REVISE SIGNAL FACES 2, 6 & 7A
(SEE INDICATION CHART)

REVISE SIGNAL FACE 6A
(SEE INDICATION CHART)

NOTE:
EXISTING SIGNAL SYSTEM
CONSTRUCTED UNDER S.R. 6216-53
(SEE SHEET NO'S 18, 20 AND 21) (F)

SIGNAL INDICATION CHART
IN PLACE REVISED

FACE	PHASE	FLASH	INDICATION	SIZE	INDICATION	SIZE
1	B4	Y	8" L8"	12"	8" X 8" X	12"
2	B3	Y	8" L8"	12"	8" X 8" X	12"
3	B1	R	12" 12"	12"	NO CHANGE	
4	B2	R	12" 12"	12"	NO CHANGE	
5	A3	Y	12" 12"	12"	12" 12" 12"	
5A	A3	Y	12" 12"	12"	12" 12" 12"	
6	A4	Y	12" 12"	12"	12" 12" 12"	
6A	A4	Y	12" 12"	12"	12" 12" 12"	
7	A2	R	12" 12"	12"	12" 12" 12"	
7A	A2	R	12" 12"	12"	12" 12" 12"	
8	A1	R	12" 12"	12"	12" 12" 12"	
8A	A1	R	12" 12"	12"	12" 12" 12"	

L=LOUVERS
X=REMOVE DIRECTIONAL LOUVERS
AND INSTALL 8" SIGNAL ADAPTORS
(SEE SPECIAL PROVISIONS)

FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"
PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

INTERSECTION LAYOUT

T.H. 51 (SNELLING AVE) AND LARPENTEUR AVE (C.S.A.H. 30)
SYSTEM "P"

Mile Post 006.35 ACCOUNT NO. 50164

CO. PROJ. NO. TRF 315-08

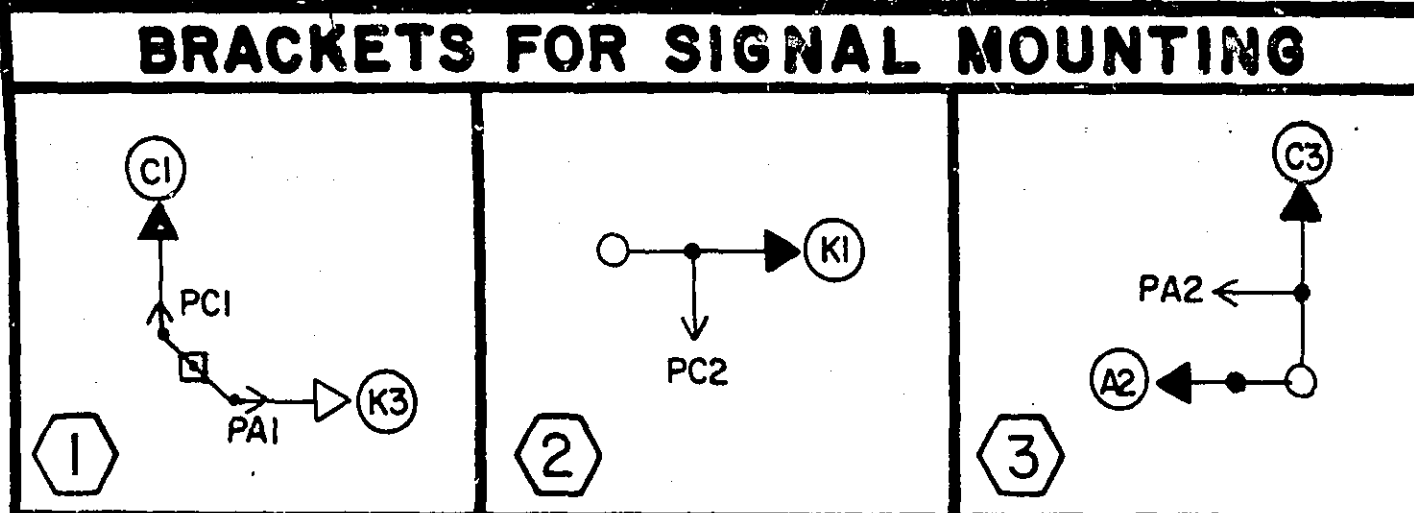
Sheet No. 21 of 23 Sheets

MICROFILMED
RAMSEY CO. ENG.

6216.002

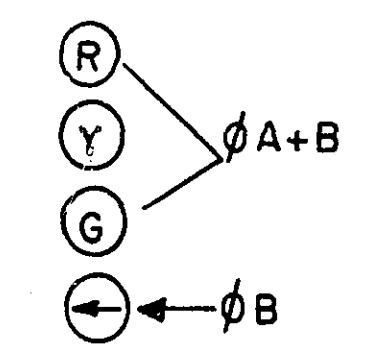
23-105

FACE	PHASE	FLASH	INDICATION SIZE				
			R	Y	G	←	→
A1	A	Y	12"	12"	12"		
A2	A	Y	12"	12"	12"		
K1	A+B	Y	12"	12"	12"		
K2	A+B	Y	12"	12"	12"		
K3	A+B	Y	12"	12"	12"		
C1	C	R	12"	12"	12"		
C2	C	R	12"	12"	12"		
C3	C	R	12"	12"	12"		

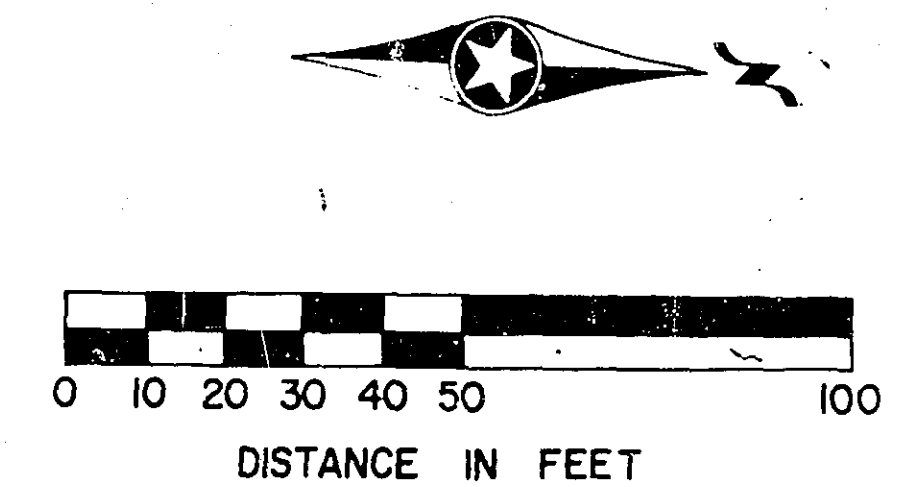


SIGNAL HEAD PHASING

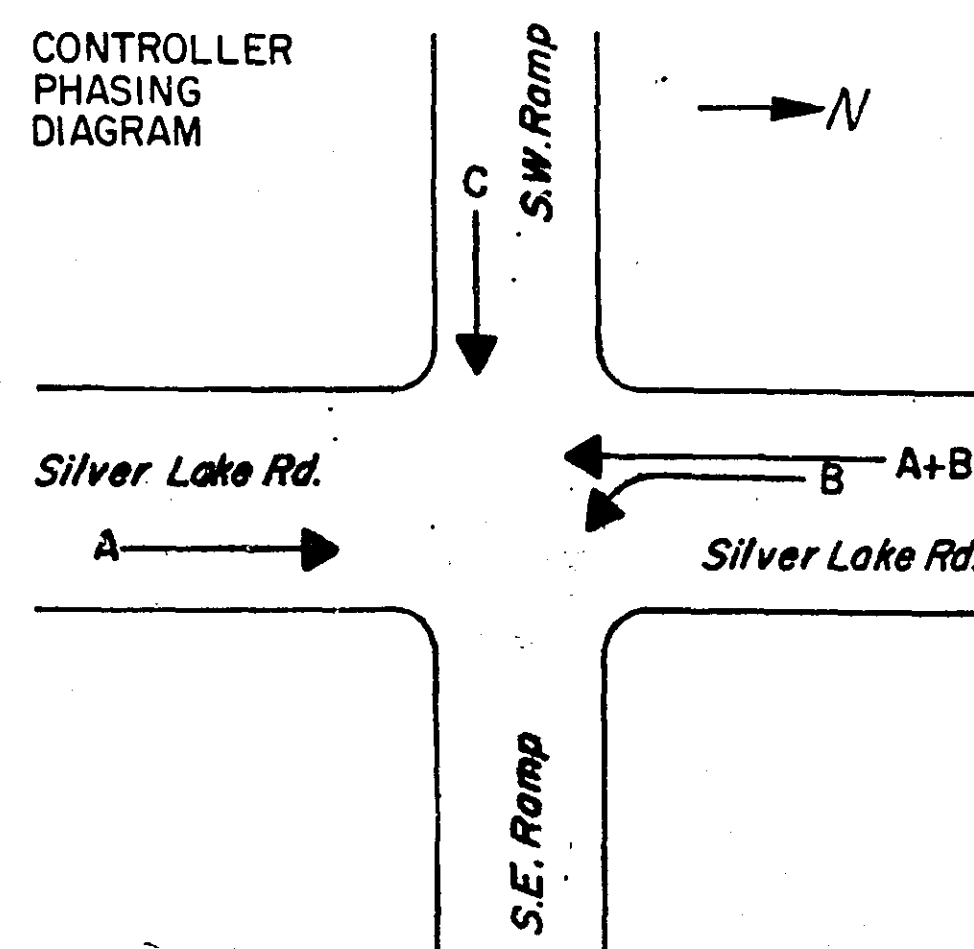
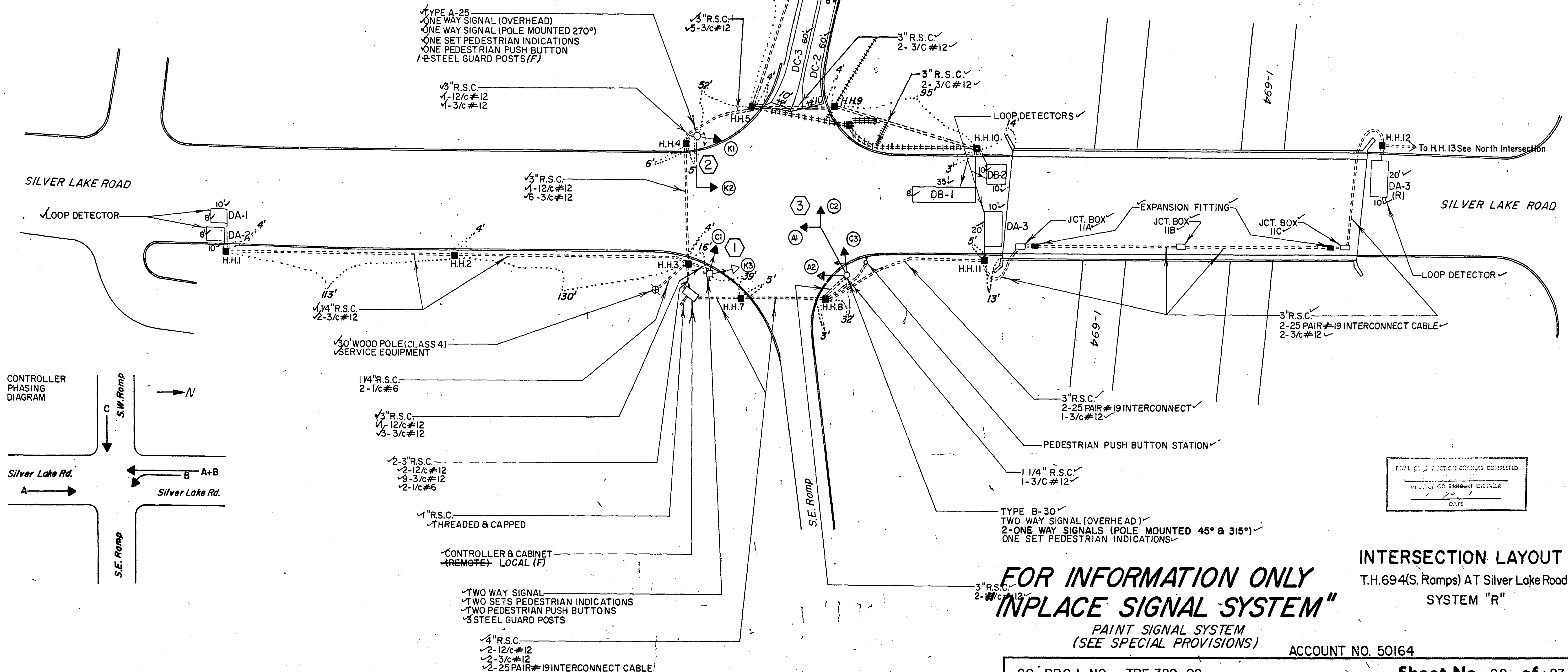
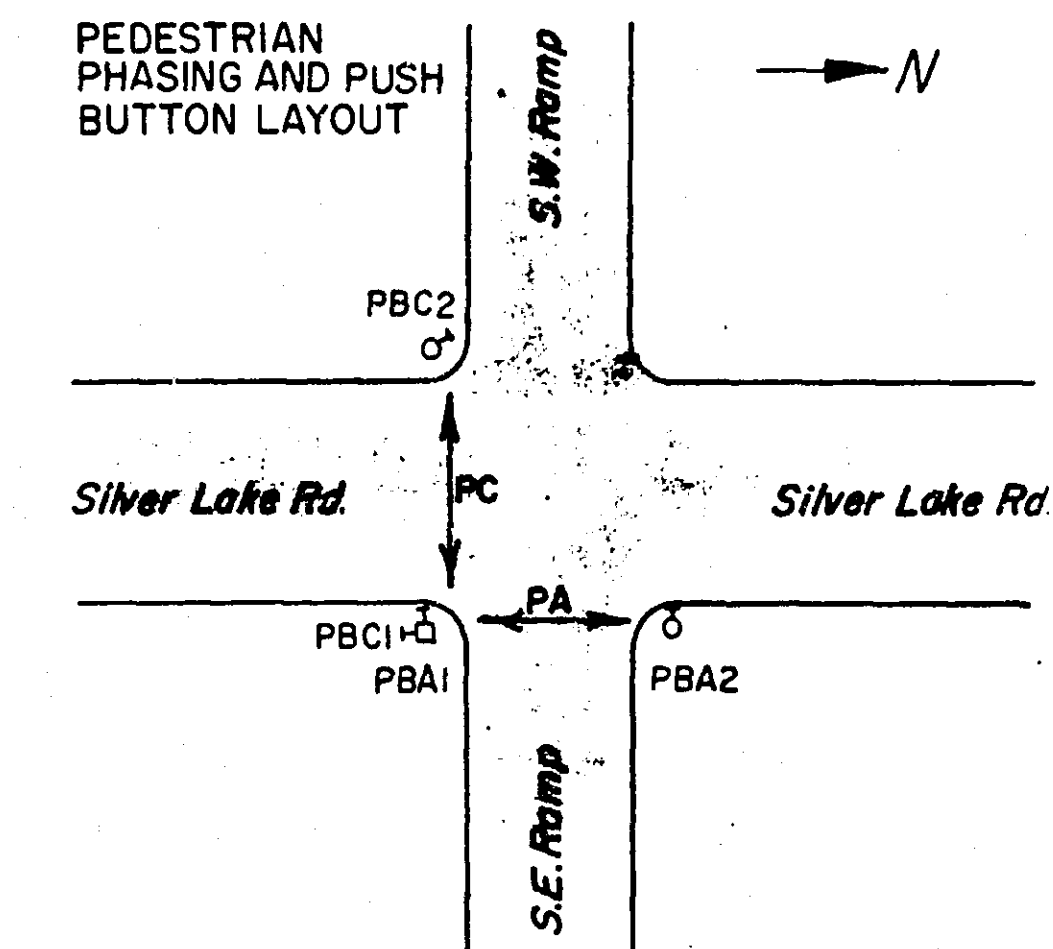
HEADS K2 & K3



Fed. Proj. No.



LEGEND OF SYMBOLS	
	CONTROLLER AND CABINET
	HANDHOLE (PULLBOX)
	PEDESTAL
	RIGID STEEL CONDUIT (R.S.C.)
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	PEDESTRIAN INDICATIONS
	PEDESTRIAN PUSH BUTTON ON PEDESTAL OR POLE
	SOURCE OF POWER (S.O.P.)
	MAST ARM AND POLE



**FOR INFORMATION ONLY
INPLACE SIGNAL SYSTEM**

PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

INTERSECTION LAYOUT
T.H.694(S. Ramps) AT Silver Lake Road
SYSTEM "R"

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 329-08

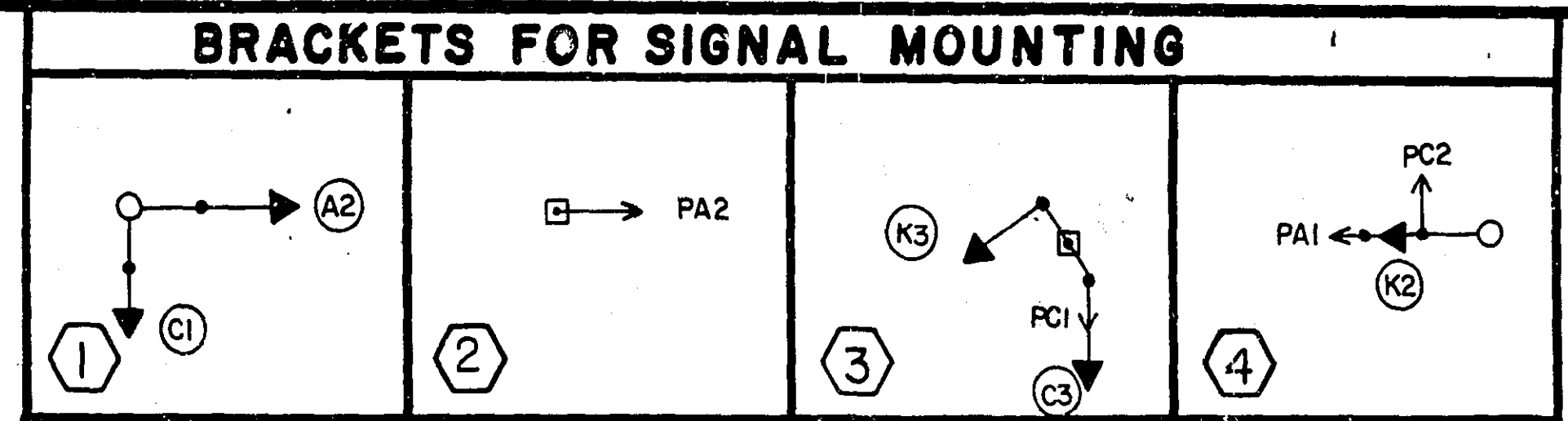
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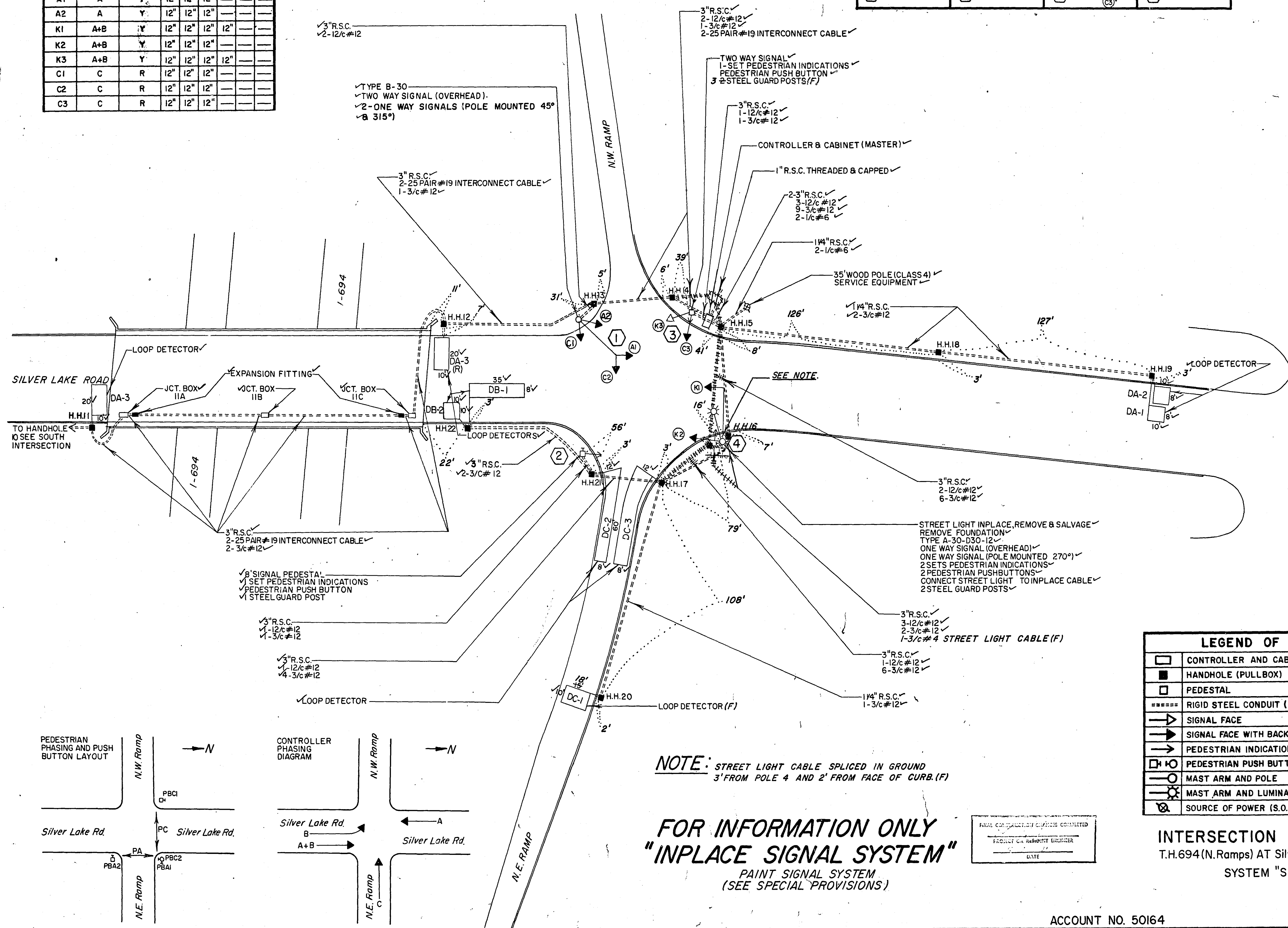
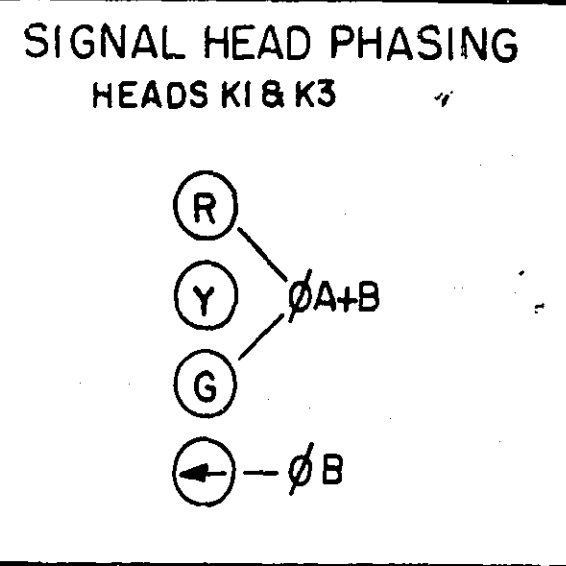
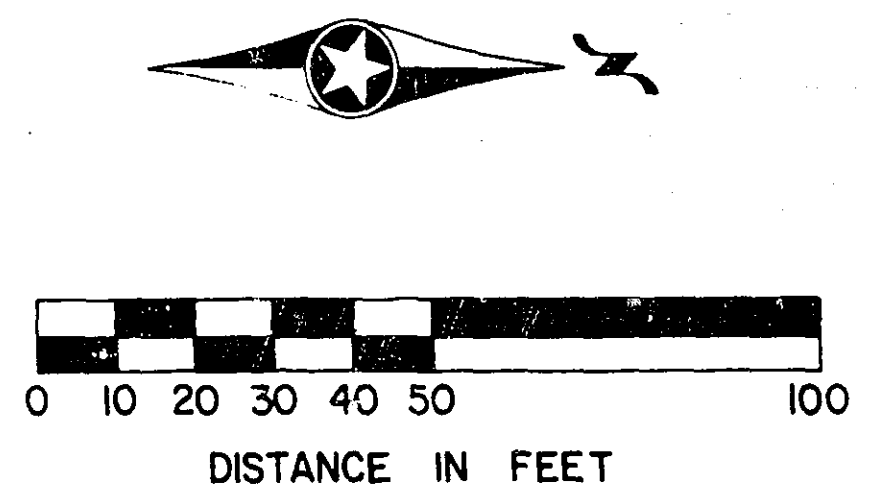
6285.044

MICROFILM
RAMSEY CO. ENR

FACE	PHASE	FLASH	INDICATION SIZE					
			R	Y	G	←	→	
A1	A	Y	12"	12"	12"	—	—	—
A2	A	Y	12"	12"	12"	—	—	—
K1	A+B	Y	12"	12"	12"	—	—	—
K2	A+B	Y	12"	12"	12"	—	—	—
K3	A+B	Y	12"	12"	12"	—	—	—
C1	C	R	12"	12"	12"	—	—	—
C2	C	R	12"	12"	12"	—	—	—
C3	C	R	12"	12"	12"	—	—	—



Fed. Proj. No.



NOTE: STREET LIGHT CABLE SPLICED IN GROUND
3' FROM POLE 4 AND 2' FROM FACE OF CURB (F)

FOR INFORMATION ONLY
"INPLACE SIGNAL SYSTEM"
PAINT SIGNAL SYSTEM
(SEE SPECIAL PROVISIONS)

LEGEND OF SYMBOLS

	CONTROLLER AND CABINET
	HANDHOLE (PULLBOX)
	PEDESTAL
	RIGID STEEL CONDUIT (R.S.C.)
	SIGNAL FACE
	SIGNAL FACE WITH BACKGROUND SHIELD
	PEDESTRIAN INDICATIONS
	PEDESTRIAN PUSH BUTTON ON PEDESTAL OR POLE
	MAST ARM AND POLE
	MAST ARM AND LUMINAIRE
	SOURCE OF POWER (S.O.P.)

INTERSECTION LAYOUT
T.H.694 (N.Ramps) AT Silver Lake Road
SYSTEM "S"

ACCOUNT NO. 50164

CO. PROJ. NO. TRF 330-08

Sheet No. 23 of 23 Sheets

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6285.043

MICROFILMED
RAMSEY CO. EN.