

PLANS SYMBOLS

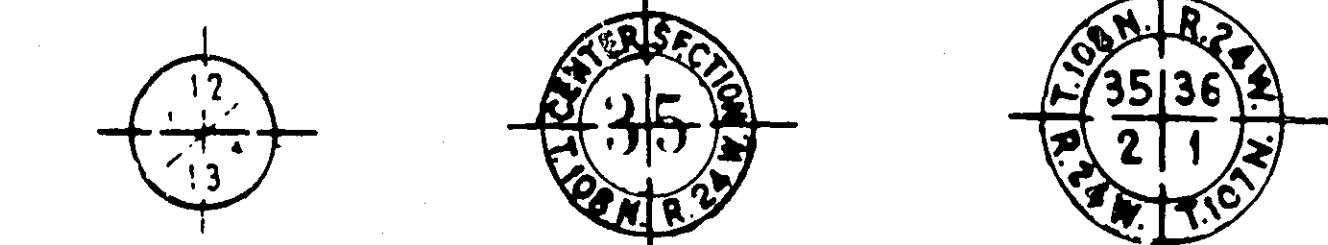
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING DATE
MEANDER CORNER

SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL (TELEPHONE CABLE
TERMINAL)
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

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



RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTION OF WHITE BEAR AVE. & 11th AVE. CO. PROJ. NO. TRF 549

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE
2	DETAILS & QUANTITIES
3	INTERSECTION LAYOUT
4	FIELD WIRING DIAGRAM

WHITE BEAR AVE. & 11th AVE.
CO. PROJ. NO. TRF 549

DESIGN SQUAD R. Wilson DATE 1-8-81
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.

DATE 1-8-81 REG. NO. 12703 ENGR. Paul K. Kowalski

RECOMMENDED FOR APPROVAL P.K. DATE 1-9-81

RECOMMENDED FOR APPROVAL R. E. W. E. W. DATE 1-19-81

RECOMMENDED FOR APPROVAL D.W. DATE 1-12-81

APPROVED Robert L. Smith DATE 1-19-81

RECOMMENDED FOR APPROVAL M.S. DATE 1/12/81

APPROVED Will B. Smith DATE 1/16/81

RECOMMENDED FOR APPROVAL P.R. DATE 1/1/81

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL L.K.F. DATE 1/10/81

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL J.P. DATE 1-12-81

RECOMMENDED FOR APPROVAL _____ DATE _____

APPROVED W. J. J. J. DATE 1-12-81

RECOMMENDED FOR APPROVAL _____ DATE _____

PLAN REVISIONS		
DATE	SHEET NO.	BY

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

PLANS SYMBOLS

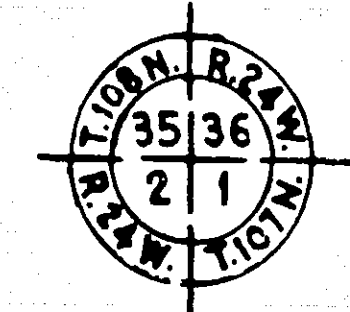
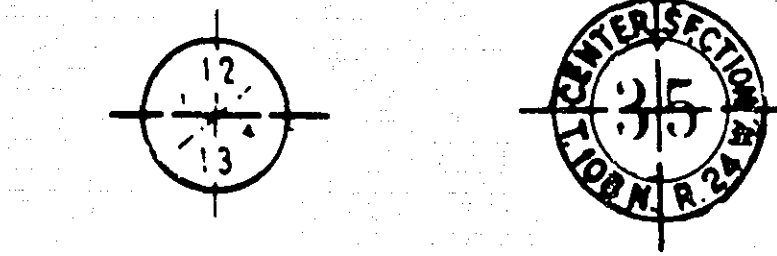
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
MOVING WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER

SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH
POLE LINE
JOINT TELEPHONE AND POWER
ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL TELEPHONE CABLE
TERMINAL
GAS MAIN
WATER MAIN

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR STORM)
SEWER MANHOLE

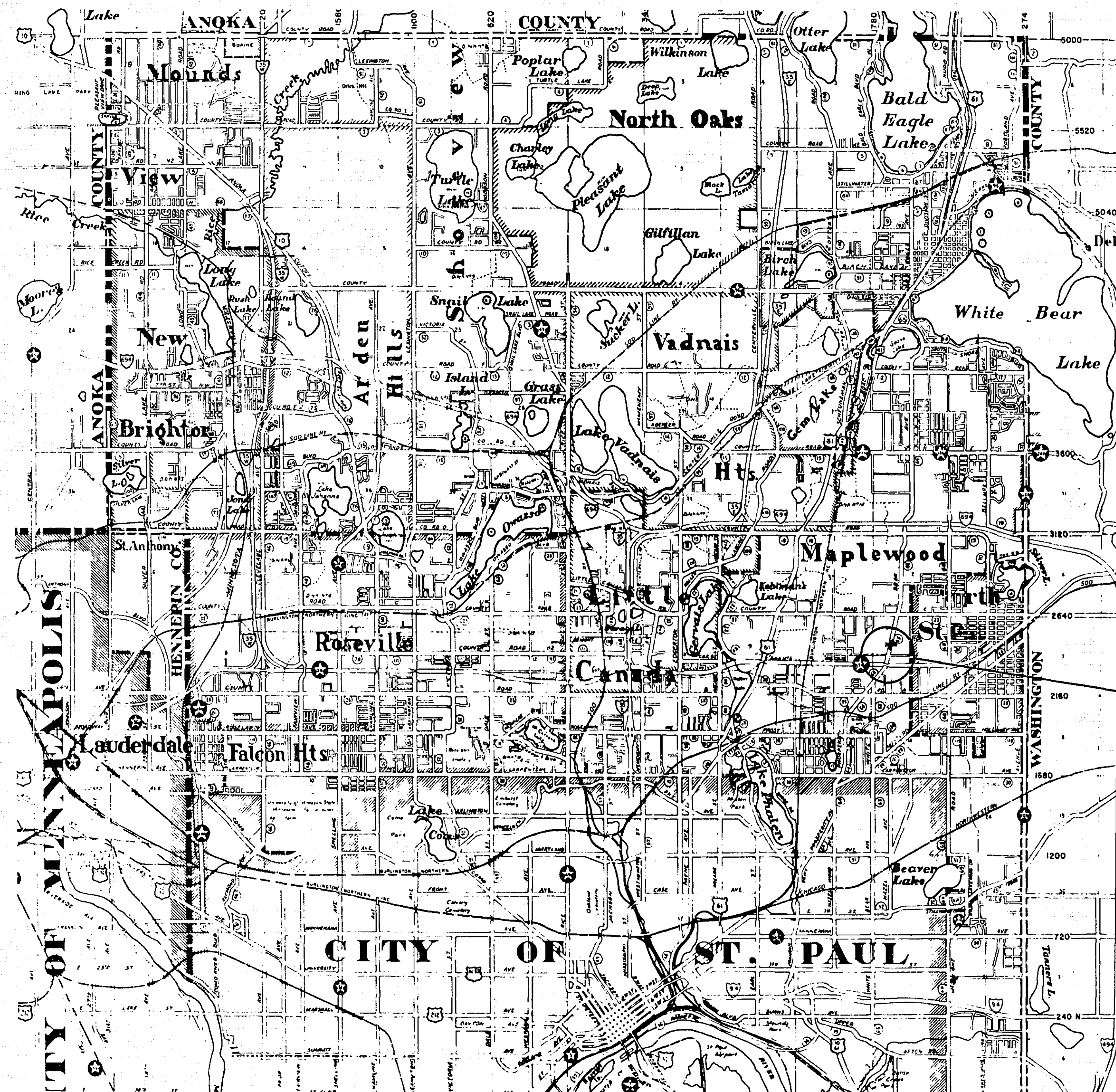


PIT DATA

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

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

RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS PLAN OF TRAFFIC CONTROL SYSTEM FOR THE INTERSECTION OF WHITE BEAR AVE. & 11th AVE. CO. PROJ. NO. TRF 549



INDEX

SHEET NO. DESCRIPTION
1 TITLE
2 DETAILS & QUANTITIES
3 INTERSECTION LAYOUT
4 FIELD WIRING DIAGRAM

WHITE BEAR AVE. & 11th AVE.
CO. PROJ. NO. TRF 549

DESIGN SQUAD R. Weber DATE 1-8-81
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.

DATE 1-8-81 REG. NO. 12703 ENGR. Paul K. Kowalski

RECOMMENDED FOR APPROVAL PK DATE 1-8-81
TRAFFIC ENGR.

RECOMMENDED FOR APPROVAL Kenneth E. Wells DATE 1-19-81
COUNTY ENGINEER

RECOMMENDED FOR APPROVAL DWS DATE 1-12-81
ENV. ENGR.

APPROVED Robert L. Smith DATE 1-19-81
CHAIRMAN OF THE RAMSEY COUNTY BOARD

RECOMMENDED FOR APPROVAL MDK DATE 1/12/81
MAINT. ENGR.

APPROVED Will & Betty DATE 1/12/81
CITY OF MAPLEWOOD

RECOMMENDED FOR APPROVAL PK DATE 1/7/81
CONST. ENGR.

APPROVED _____ DATE _____

RECOMMENDED FOR APPROVAL LKF DATE 1/09/81
DESIGN ENGR.

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL QAP DATE 1-12-81
DIST. ENGR.

RECOMMENDED FOR APPROVAL _____ DATE _____

APPROVED W. K. Kowalski DATE 1-12-81
COORDINATING ENGR.

RECOMMENDED FOR APPROVAL _____ DATE _____

DISTRICT STATE AID ENGINEER

APPROVAL _____ DATE _____

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DATE BY: R. Weber
DATE: 6-11-81

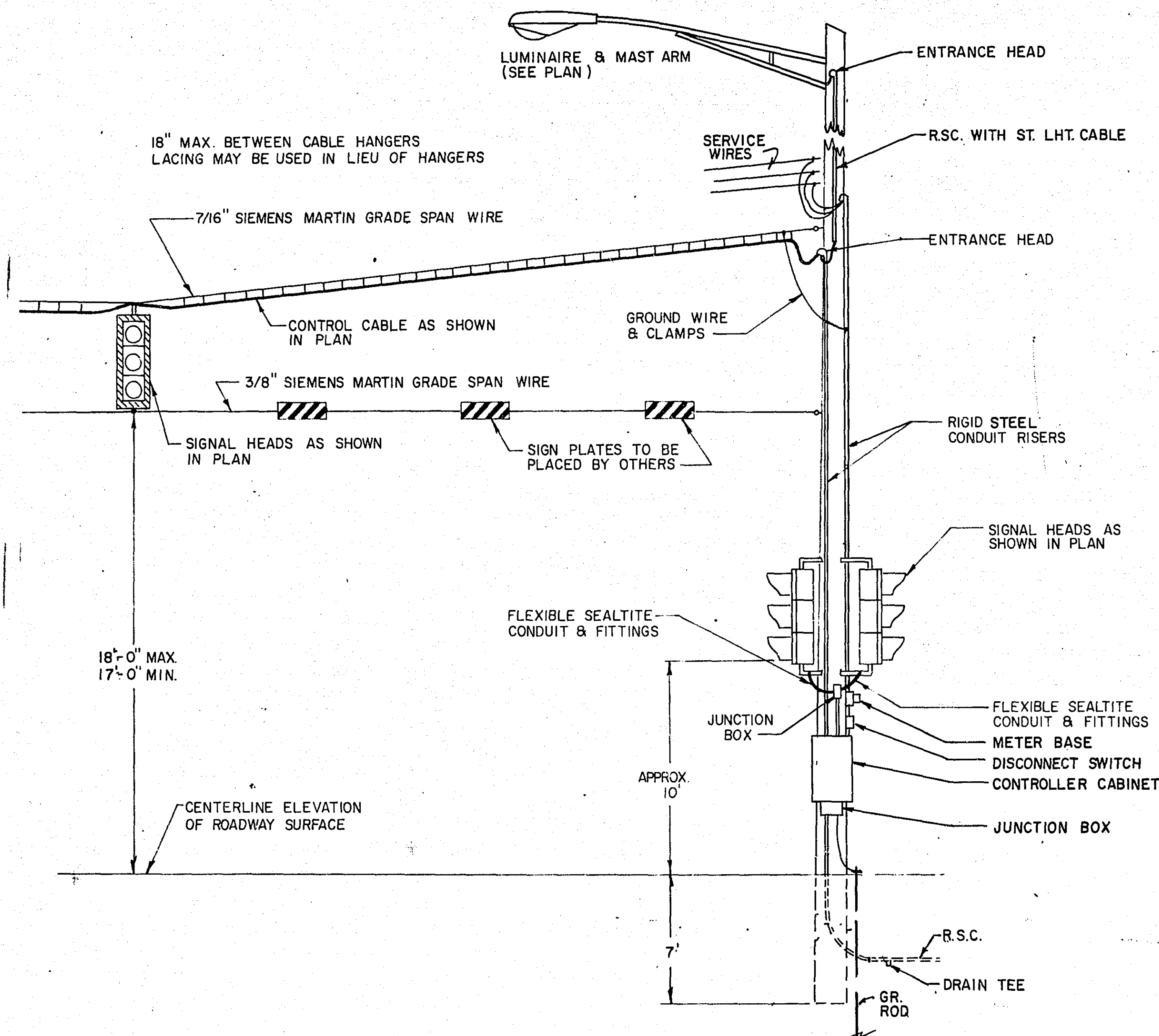
PLAN REVISIONS		
DATE	SHEET NO.	BY

CO. PROJ. NO. TRF 549

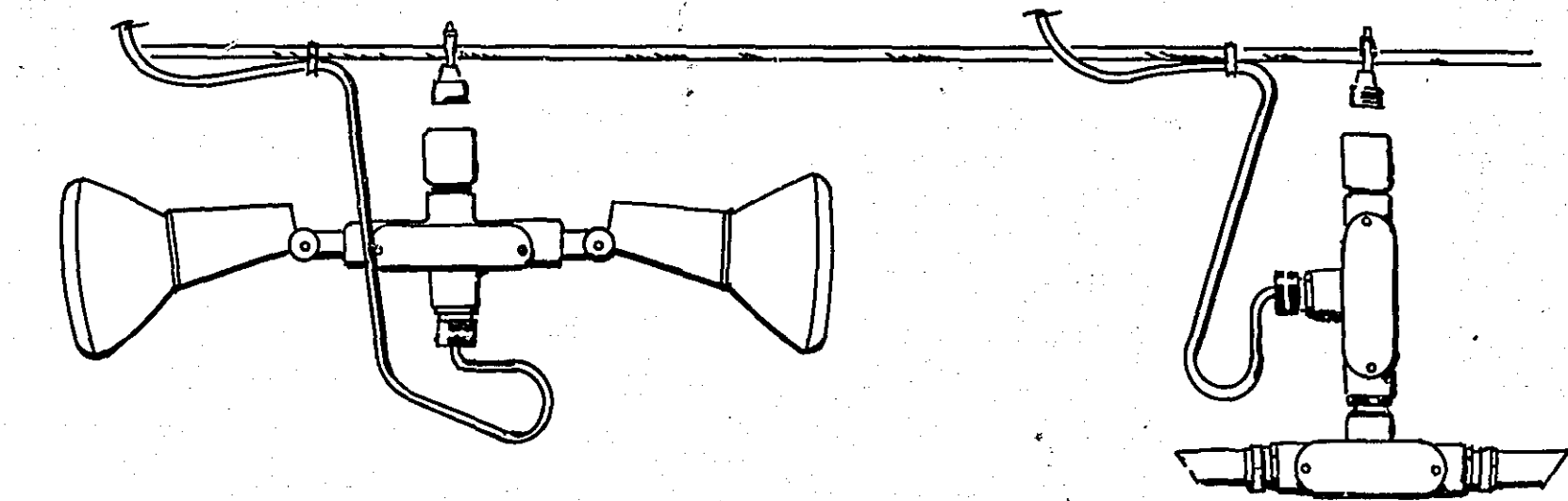
Sheet No. 1 of 4 Sheets

23-124

TEMPORARY WOOD POLE TRAFFIC SIGNAL



EVP DETECTOR AND LIGHT SPAN WIRE MOUNTING



FURNISH AND INSTALL INDICATOR LIGHTS

EVP DETECTOR FURNISHED BY COUNTY - CONTRACTOR SHALL INSTALL AS SHOWN.

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
 PA-1(eg) - PEDESTRIAN INDICATION - "A" PHASE
 PBB-2(eg) - PUSH BUTTON - "B" PHASE
 A-2(eg) - SIGNAL HEAD - "A" PHASE
 DA-4(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
* 8110C	TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)
8111B	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED)
8112C	PEDESTAL FOUNDATION
8113C	MAGNETIC VEHICLE DETECTOR INSTALLATION
* 8115C	PEDESTRIAN PUSH BUTTON INSTALLATION
8116C	STEEL GUARD POST
8117F	PRECAST CONCRETE HANDHOLE
* 8118C	SERVICE EQUIPMENT & POLE, TRAFFIC CONTROL SIGNALS
8119C	GROUND MOUNTED CABINET FOUNDATION
8120F	MAST ARM POLE FOUNDATION
8122C	PEDESTAL AND PEDESTAL BASE
8123A	POLE AND MAST ARM (LUMINAIRES AND TRAFFIC LIGHTS)
8124C	SIGNAL HEAD MOUNTS
8125A	SWING-AWAY HINGE (FOR TRAFFIC SIGNAL ARM MAST)
* 8130D	SAW CUT LOOP DETECTORS

* STANDARD PLATES APPLICABLE TO THIS PROJECT

STATEMENT OF ESTIMATED QUANTITIES

PROJECT NO.	ITEM NO.	ITEM	UNIT	QUANT.
TRF 549	565.604	TEMPORARY SIGNAL SYSTEM	SYSTEM	1
TRF 549	565.604	EMERGENCY VEHICLE PRE-EMPTION	SYSTEM	1

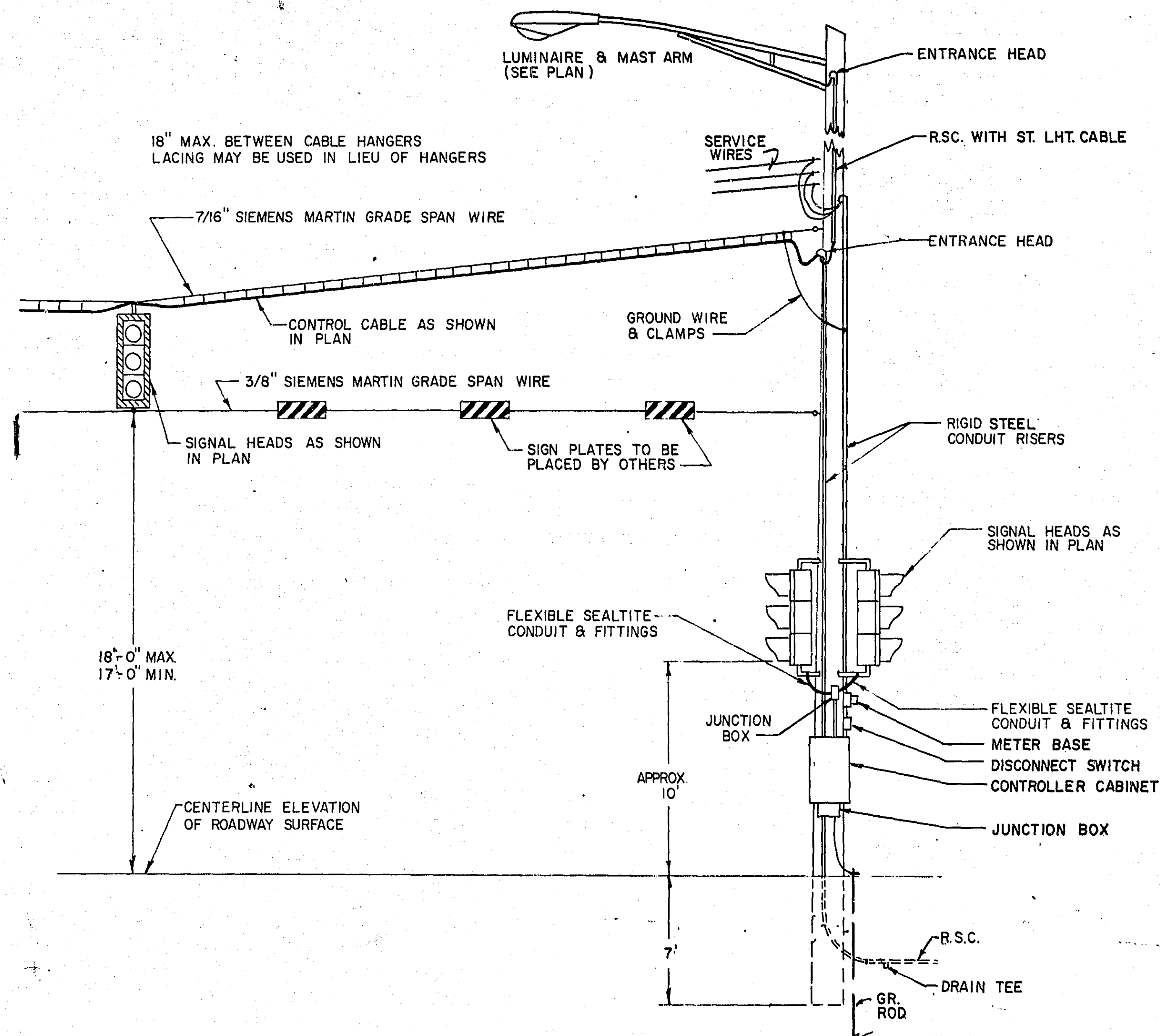
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Paul J. Kishner

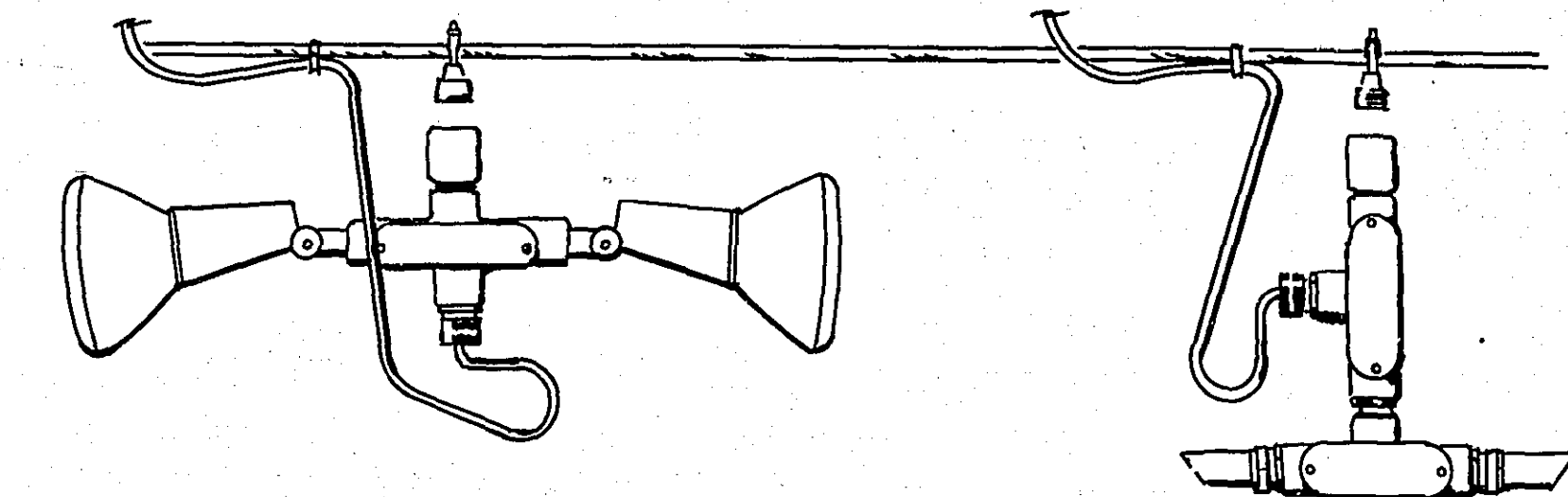
Date 1-8-81 Reg. No. 12703

DETAILS

TEMPORARY WOOD POLE TRAFFIC SIGNAL



EVP DETECTOR AND LIGHT SPAN WIRE MOUNTING



FURNISH AND INSTALL INDICATOR LIGHTS

EVP DETECTOR FURNISHED BY COUNTY - CONTRACTOR SHALL INSTALL AS SHOWN.

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
PA-1(eg) - PEDESTRIAN INDICATION - "A" PHASE
PBB-2(eg) - PUSH BUTTON - "B" PHASE
A-2(eg) - SIGNAL HEAD - "A" PHASE
DA-4(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
* 8110C	TRAFFIC SIGNAL BRACKETING (POLE MOUNTED)
8111B	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED)
8112C	PEDESTAL FOUNDATION
8113C	MAGNETIC VEHICLE DETECTOR INSTALLATION
* 8115C	PEDESTRIAN PUSH BUTTON INSTALLATION
8116C	STEEL GUARD POST
8117F	PRECAST CONCRETE HANDHOLE
* 8118C	SERVICE EQUIPMENT & POLE, TRAFFIC CONTROL SIGNALS
8119C	GROUND MOUNTED CABINET FOUNDATION
8120F	MAST ARM POLE FOUNDATION
8122C	PEDESTAL AND PEDESTAL BASE
8123A	POLE AND MAST ARM (LUMINAIRES AND TRAFFIC LIGHTS)
8124C	SIGNAL HEAD MOUNTS
8125A	SWING-AWAY HINGE (FOR TRAFFIC SIGNAL ARM MAST)
* 8130D	SAW CUT LOOP DETECTORS

* STANDARD PLATES APPLICABLE TO THIS PROJECT

STATEMENT OF ESTIMATED QUANTITIES

PROJECT NO.	ITEM NO.	ITEM	UNIT	QUANT.
TRF 549	565.604	TEMPORARY SIGNAL SYSTEM	SYSTEM	1
TRF 549	565.604	EMERGENCY VEHICLE PRE-EMPTION	SYSTEM	1

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *R. Weber*
DATE: 6-11-81

DETAILS

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.
Paul R. Weber
Date: 6-8-81 Reg. No. 12703

CO. PROJ. NO. TRF 549

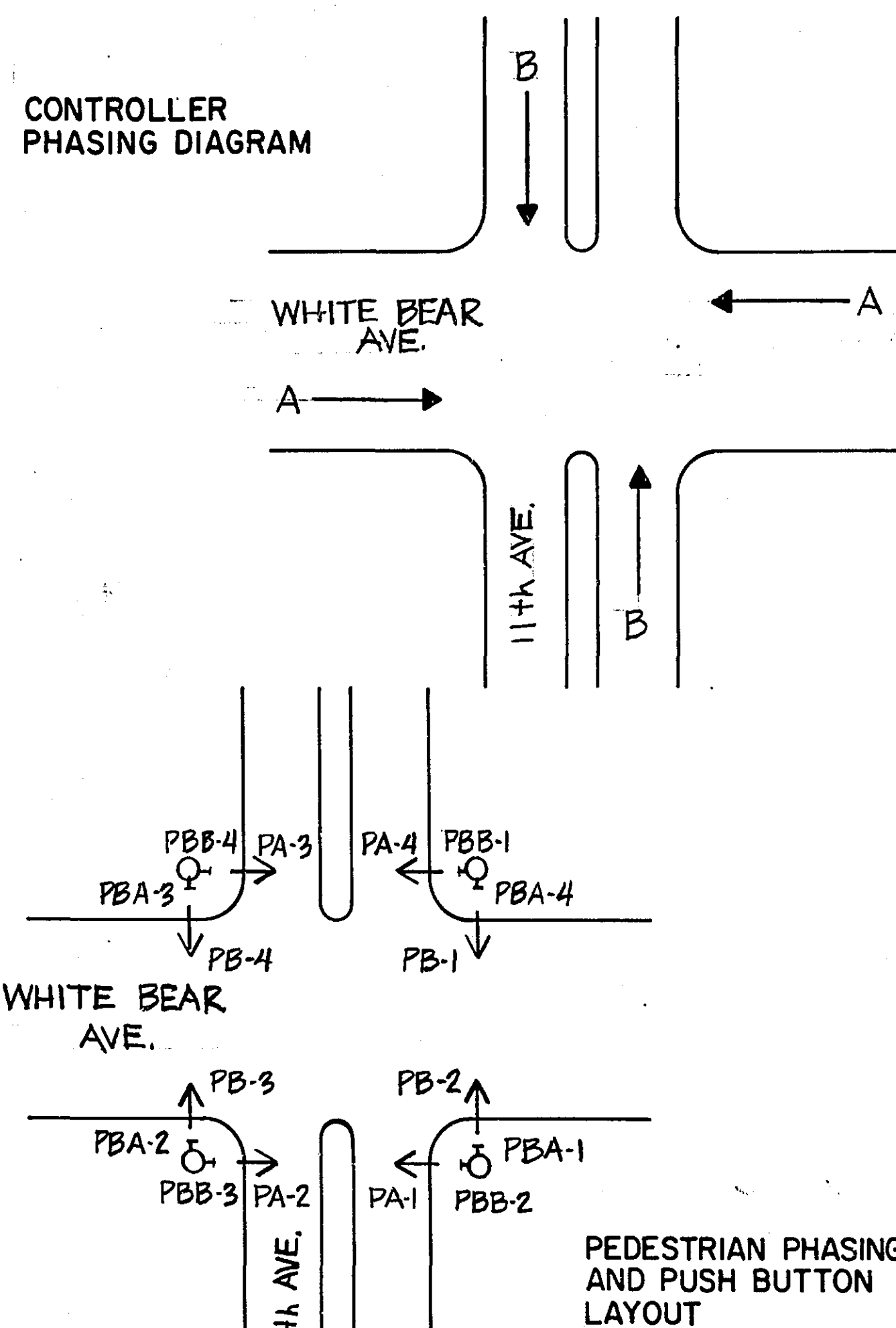
SHEET NO. 2 OF 4 SHEETS

MICROFILMED
RAMSEY CO. ENGR.

23-124

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	



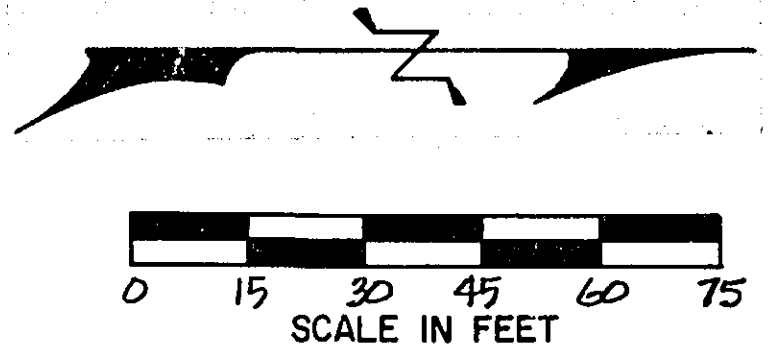
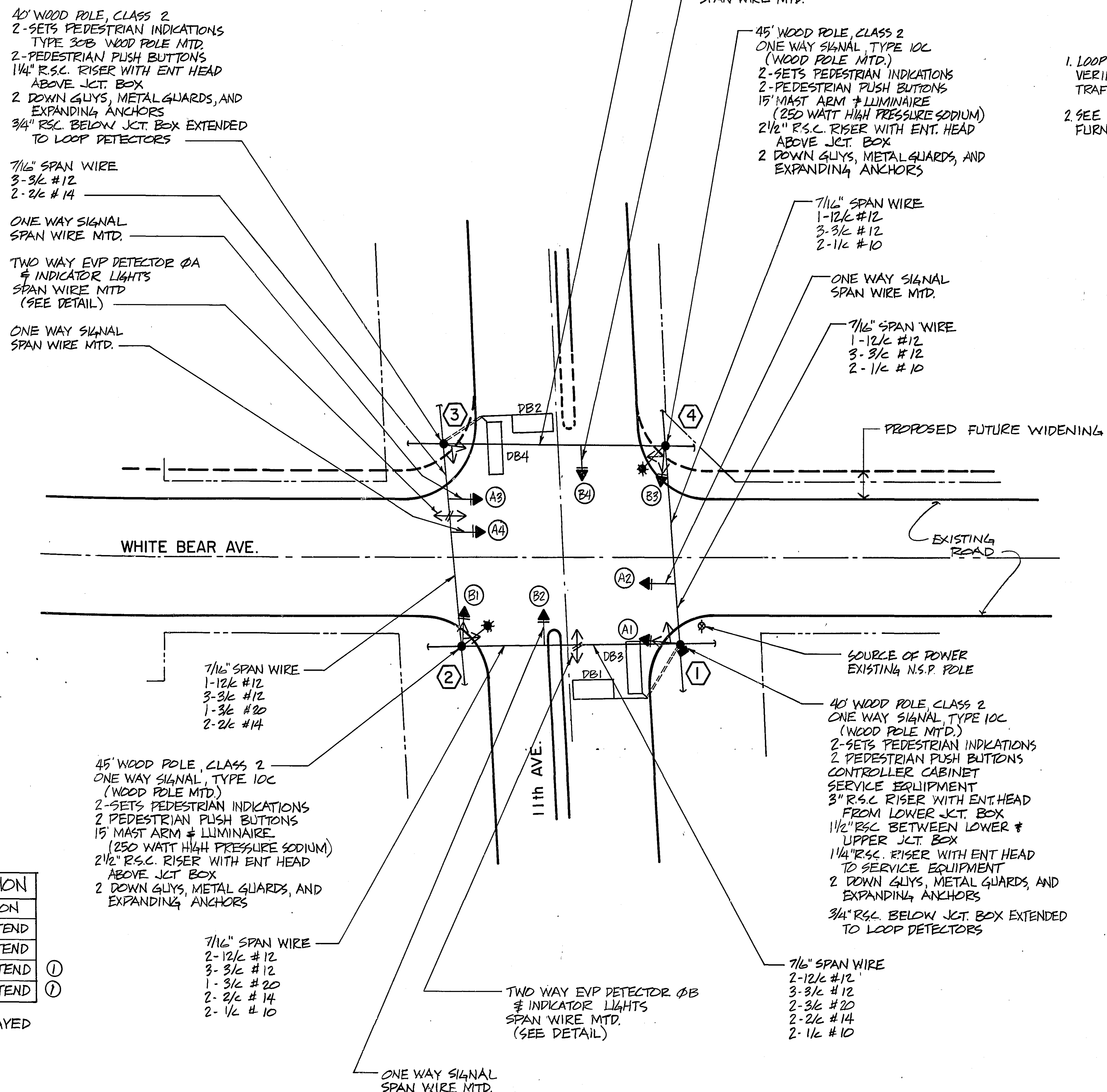
SIGNAL INDICATION CHART

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"	-	-	-
B3	B	R	12"	12"	12"	-	-	-
B4	B	R	12"	12"	12"	-	-	-

VEHICLE DETECTION

NUMBER	SIZE	OPERATION
DB1	8'x18'	CALL # EXTEND
DB2	8'x18'	CALL # EXTEND
DB3	6'x25'	CALL # EXTEND
DB4	6'x25'	CALL # EXTEND

① TIME DELAYED



- NOTES:**
1. LOOP DETECTOR LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE TRAFFIC ENGR. PRIOR TO INSTALLATION
 2. SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED EQUIPMENT.

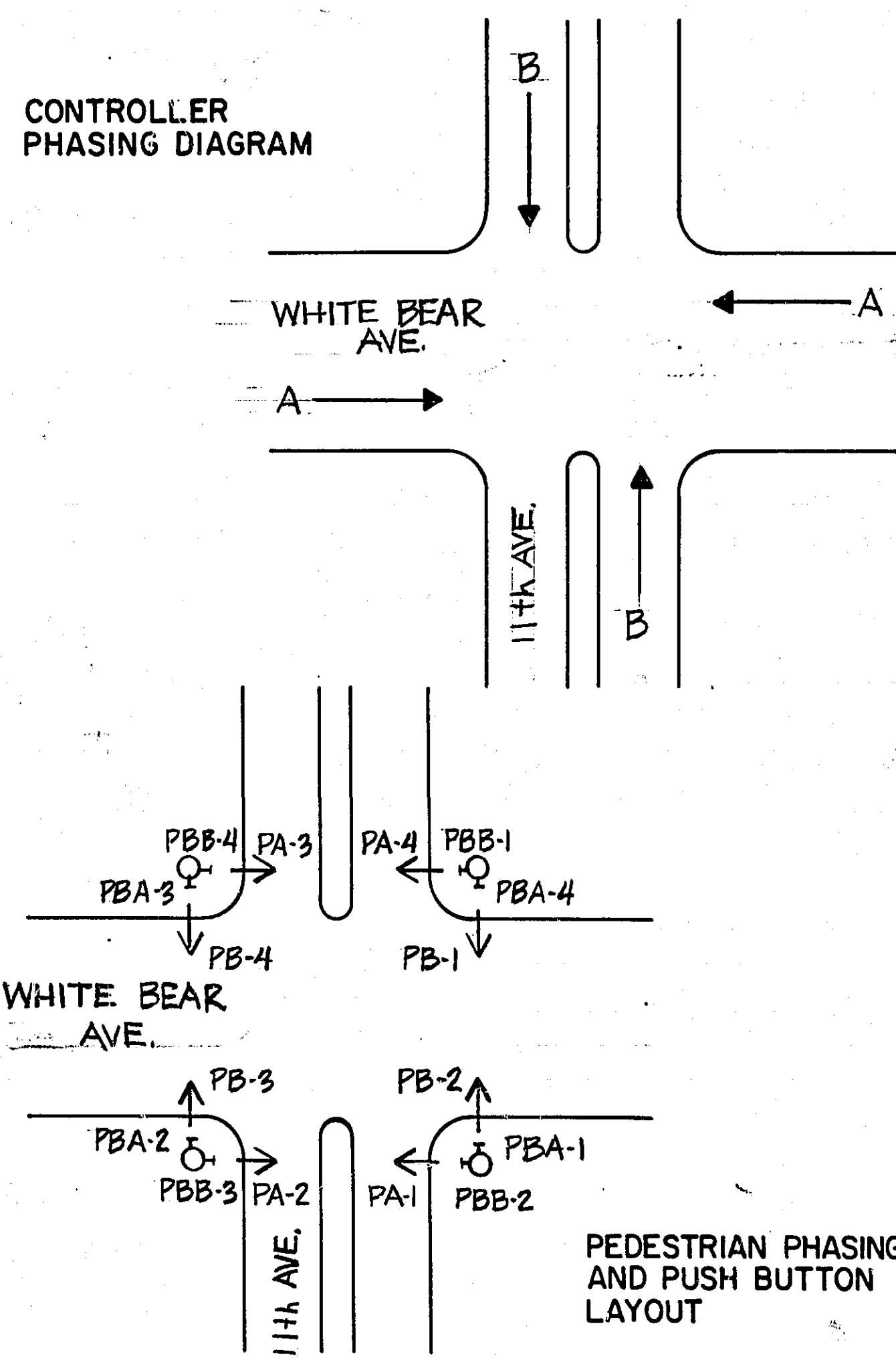
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Paul J. Schmidt

Date 1-8-81 Reg. No. 12703

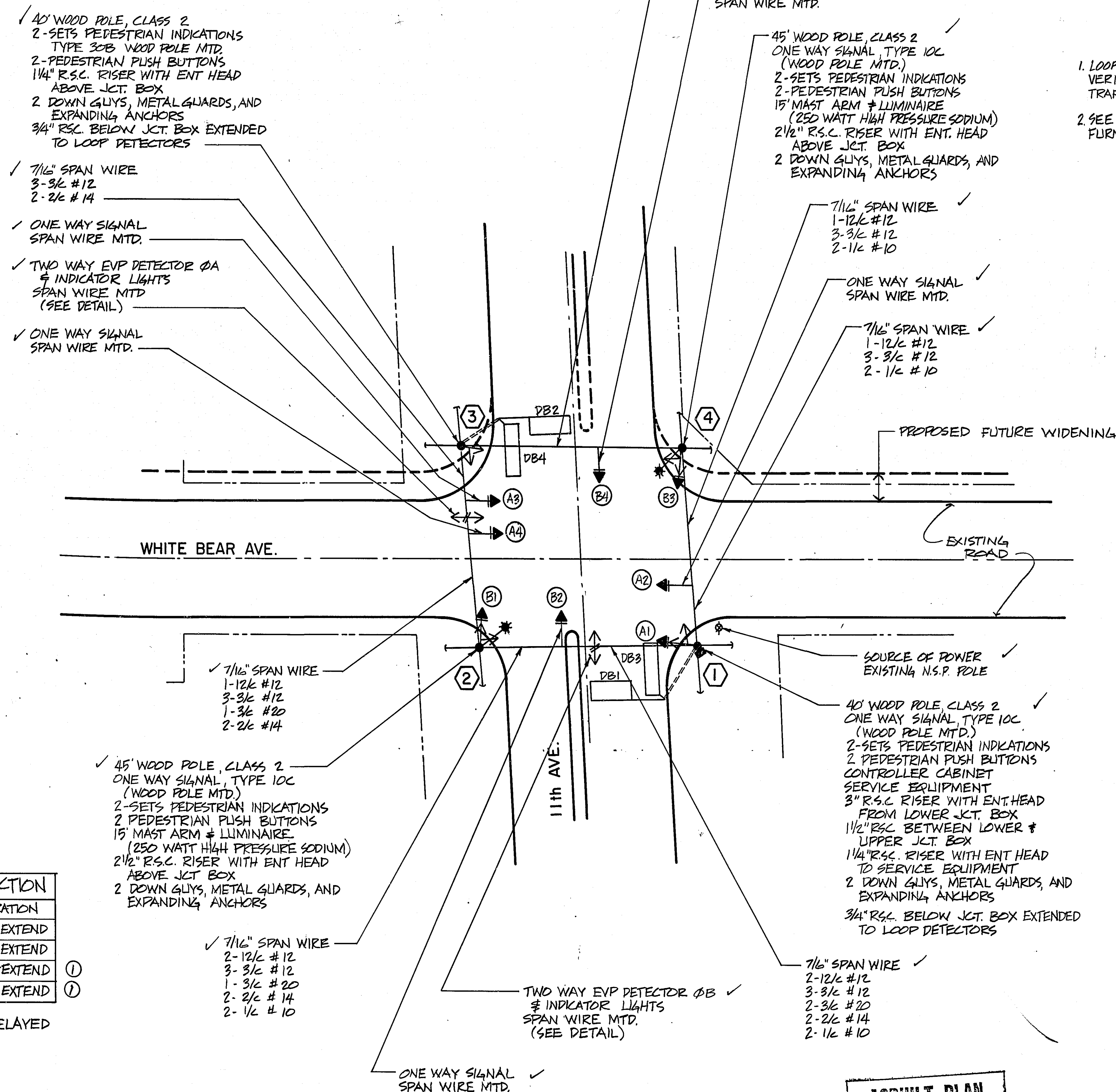
INTERSECTION LAYOUT
WHITE BEAR AVE. & 11th AVE.

SIGNAL BASE NO.		5	4-2
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]

VEHICLE DETECTION		
NUMBER	SIZE	OPERATION
DB1	8'x18'	CALL & EXTEND
DB2	8'x18'	CALL & EXTEND
DB3	6'x25'	CALL & EXTEND
DB4	6'x25'	CALL & EXTEND

① TIME DELAYED



NOTES:

1. LOOP DETECTOR LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE TRAFFIC ENGR. PRIOR TO INSTALLATION
2. SEE SPECIAL PROVISIONS FOR COUNTY FURNISHED EQUIPMENT.

**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY: R. W. W. W.
DATE: 6-11-81

Note: Background shields on signal heads not furnished as shown

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.

Paul K. Kishnold

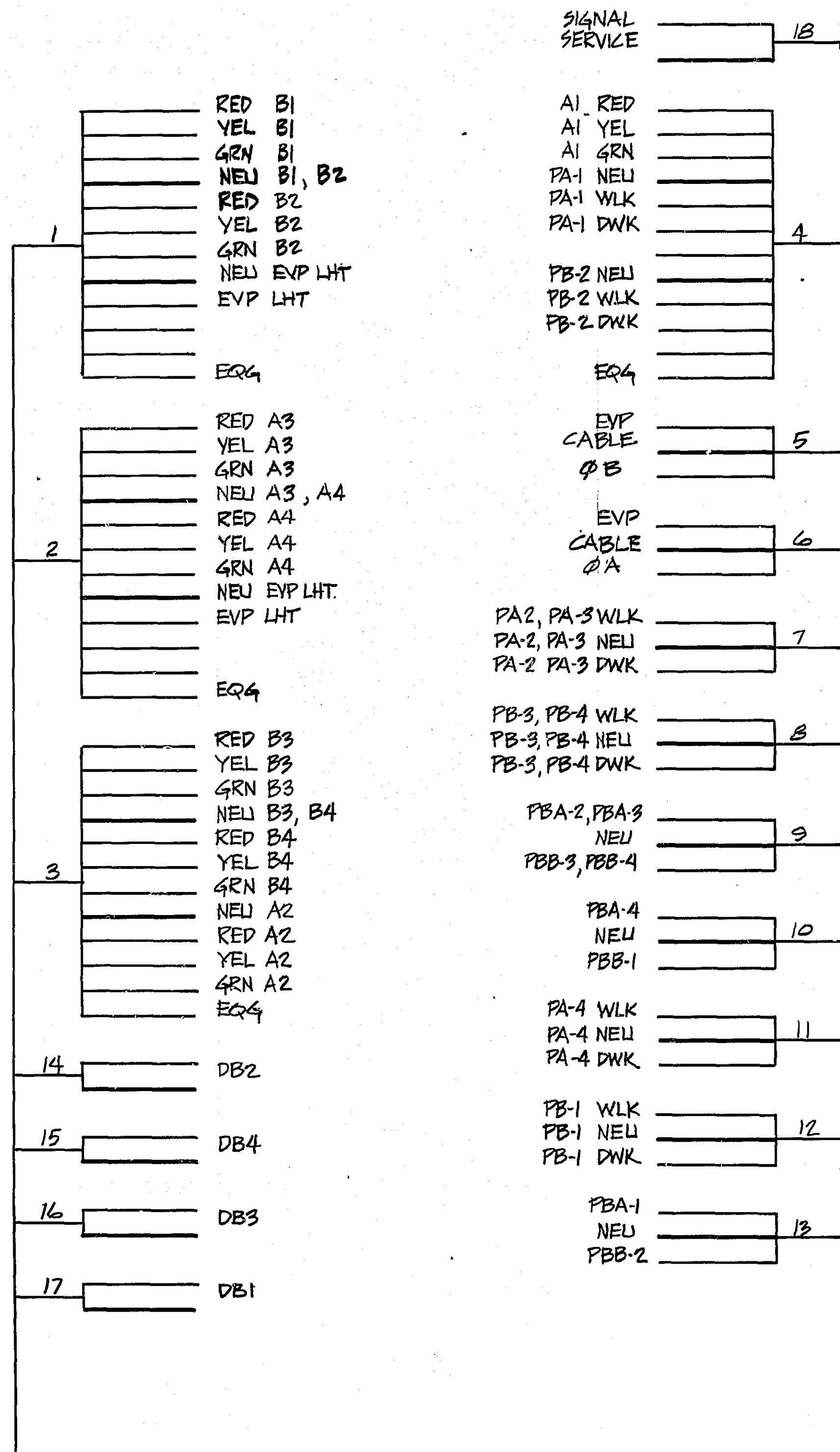
Date 1-8-81 Reg. No. 12703

INTERSECTION LAYOUT
WHITE BEAR AVE. & 11th AVE.

CO. PROJ. NO. TRF 549

SHEET NO. 3 OF 4 SHEETS

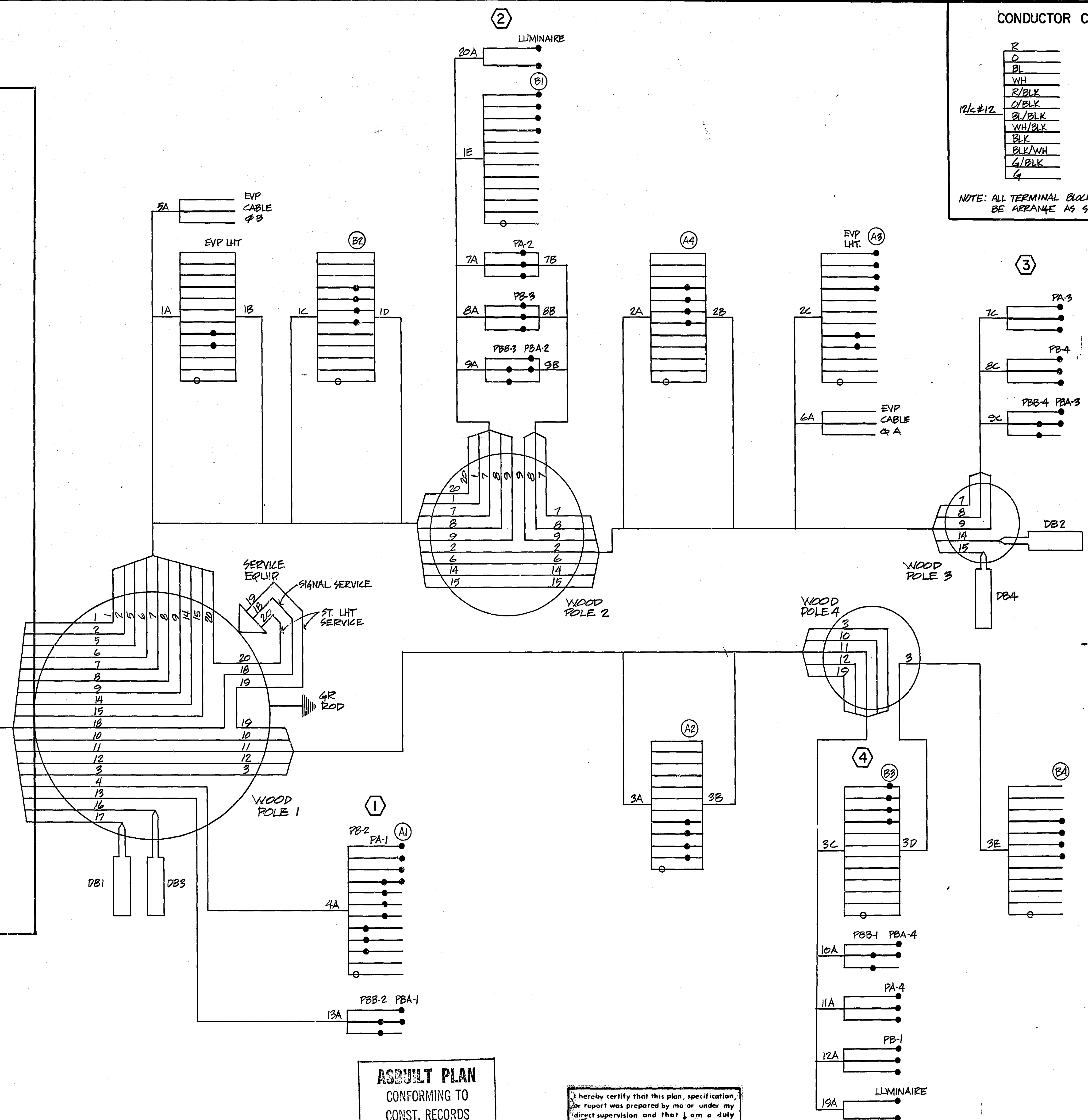
CONTROLLER CABINET



CONDUCTOR COLOR CODING

R	W	3/c #20
BL	BLK	3/c #12
WH		
R/BLK	BLK or RED	2-1/c #6
O/BLK	WH	2-1/c #10
BL/BLK		
WH/BLK		
BLK	BLK	2/c #14
BLK/WH	CLR	
G/BLK		

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGE AS SPECIFIED ABOVE.



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: R. Weber
DATE: 6-11-81

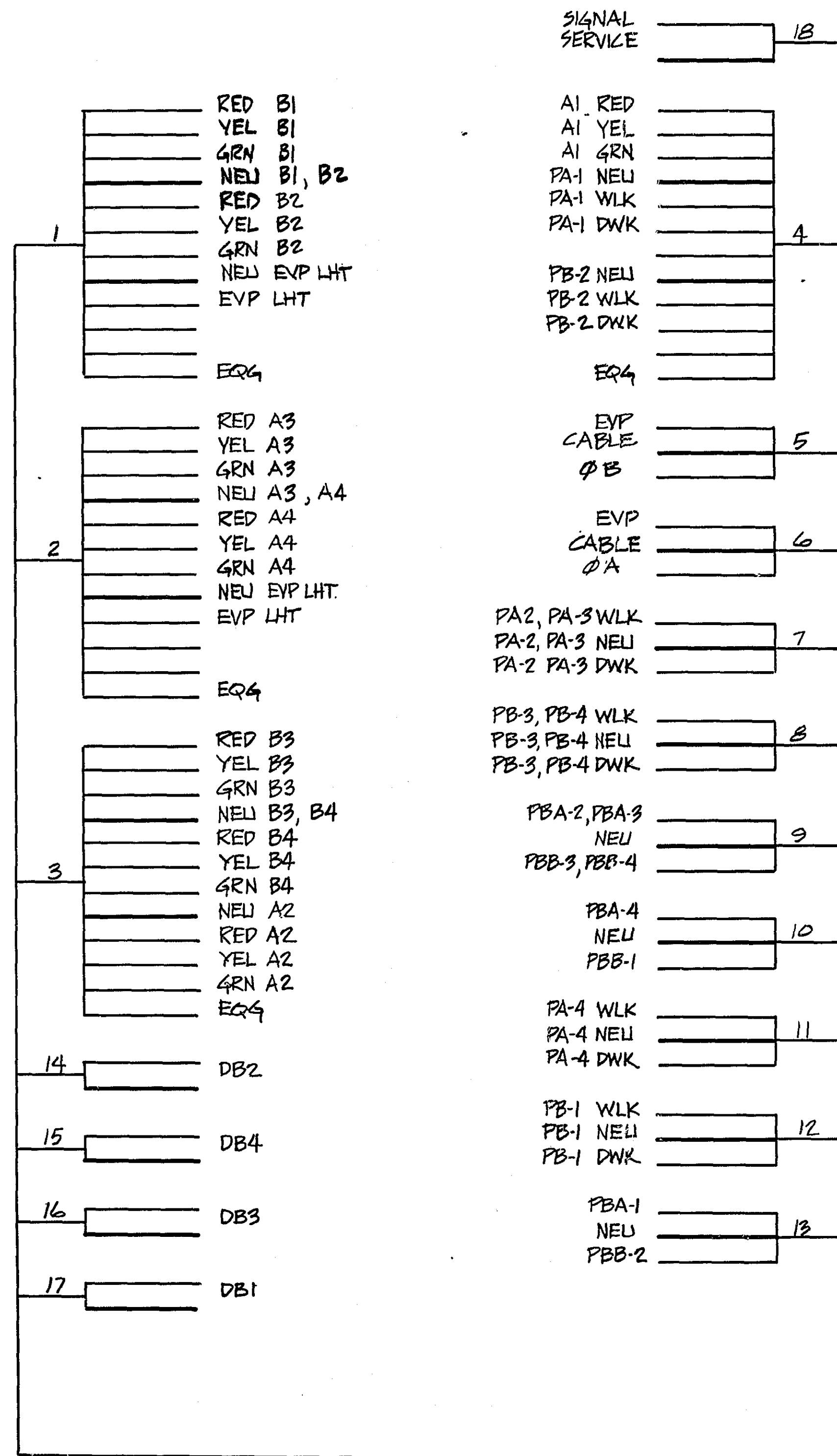
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Date: 1-8-81 Reg. No. 12703

FIELD WIRING DIAGRAM
WHITE BEAR AVE. & 11th AVE.

MICROFILMED
RAMSEY CO. ENGR.

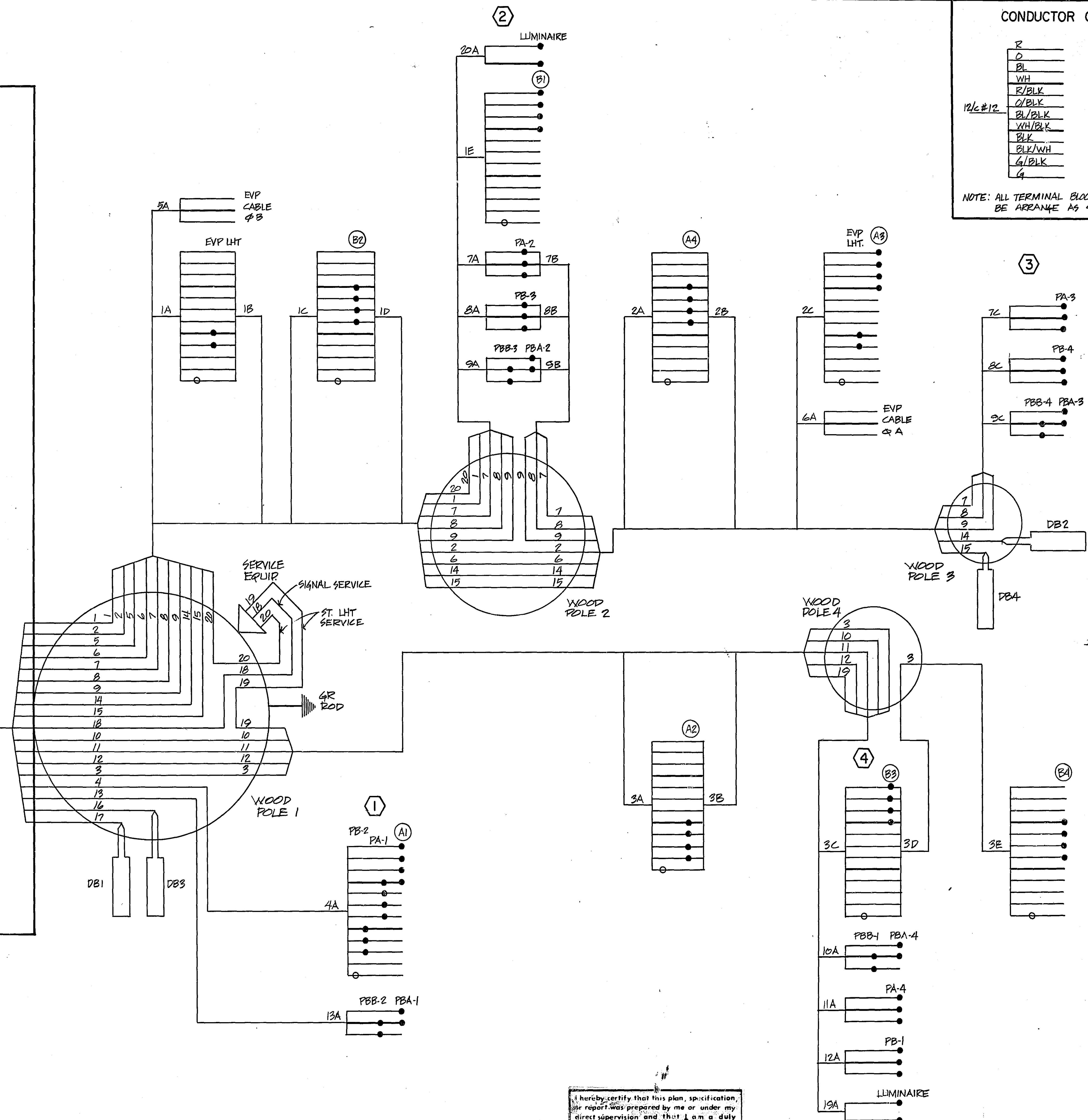
CONTROLLER CABINET



CONDUCTOR COLOR CODING

R	R
W	W
BL	BLK
WH	WH
R/BLK	BLK OR RED
O/BLK	WH
BL/BLK	BLK
WH/BLK	BLK/WH
BLK	G/BLK
BLK/WH	G
G/BLK	
G	

NOTE: ALL TERMINAL BLOCK CONNECTIONS SHALL BE ARRANGE AS SPECIFIED ABOVE.



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 1-8-81 Reg. No. 12703

FIELD WIRING DIAGRAM
WHITE BEAR AVE. & 11th AVE.

MICROFILMED
RAMSEY CO. ENGR.