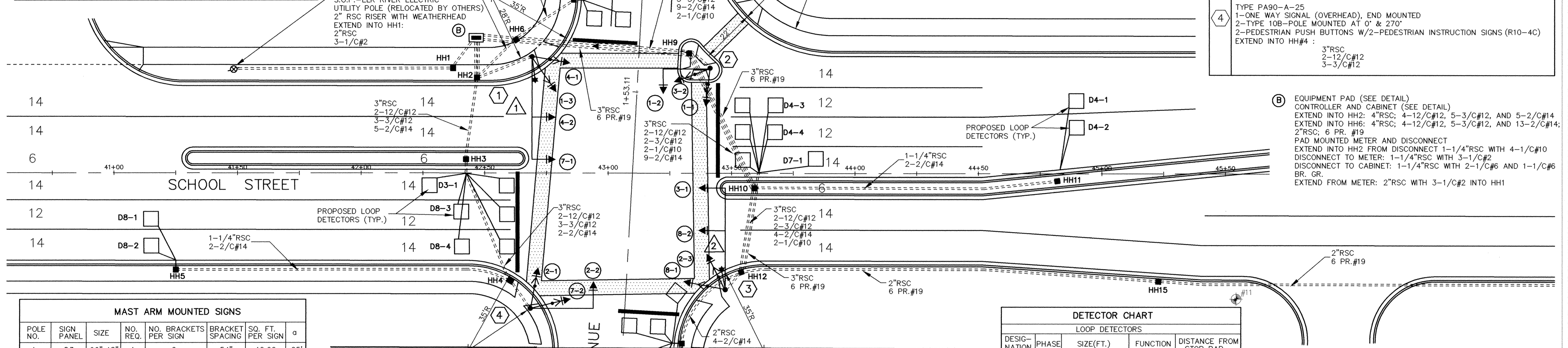
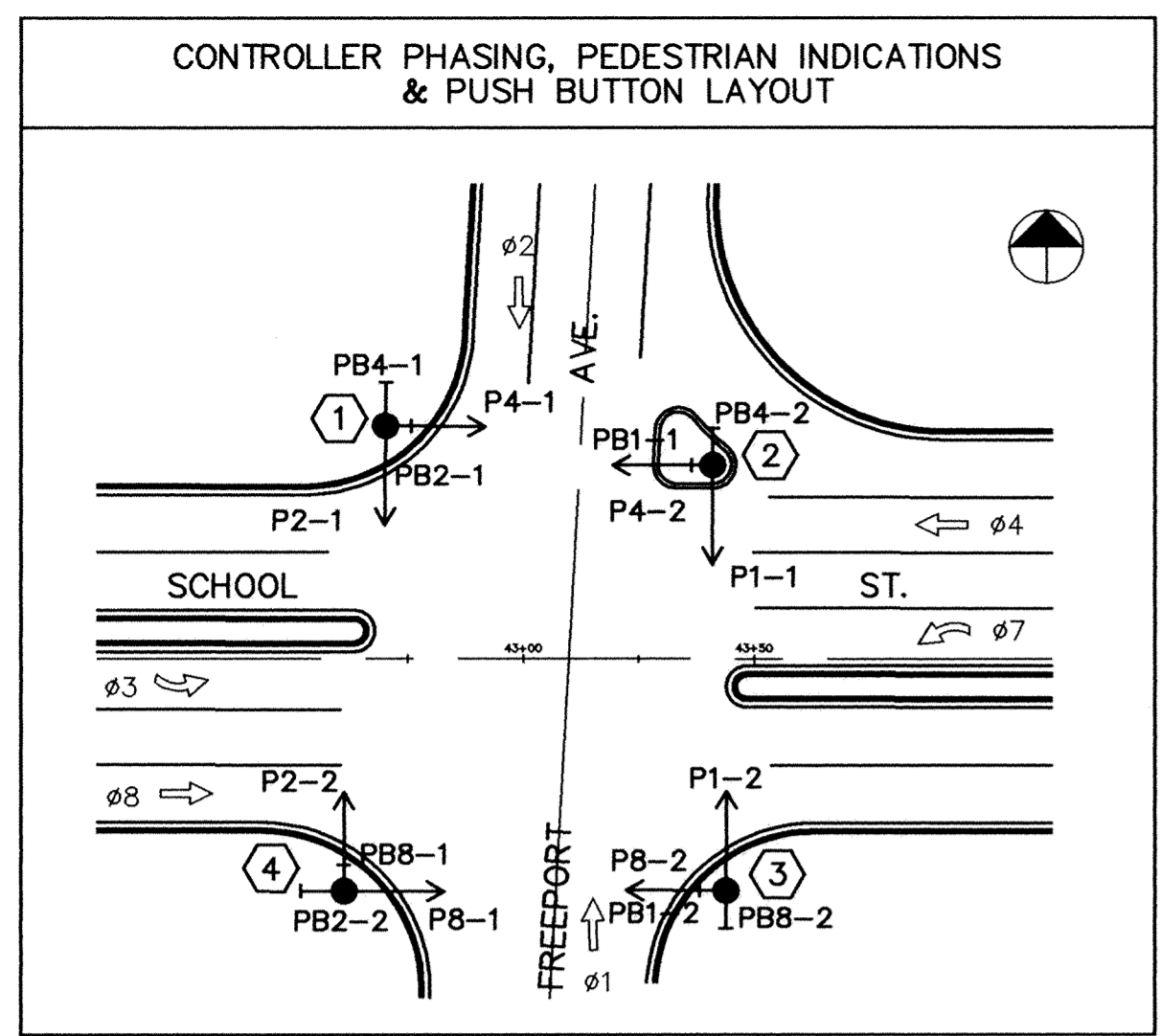
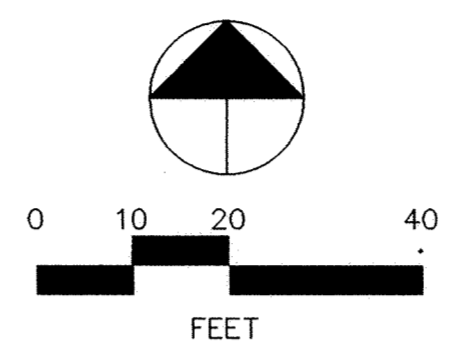


1	TYPE PA90-A-40-D40-9 1-ONE WAY SIGNAL (OVERHEAD), END MOUNTED 1-ONE WAY SIGNAL (OVERHEAD), MID MAST ARM MOUNTED 18' FROM END 2-TYPE 10B-POLE MOUNTED AT 0' AND 270' LUMINAIRE AT 355-200 WATT HPS W/PEC/CH.SW. 2-PEDESTRIAN PUSH BUTTONS W/2-PEDESTRIAN INSTRUCTION SIGNS (R10-4C) EXTEND INTO HH#2 : 3"RSC 2-12/C#12 2-3/C#12 2-1/C#10
2	TYPE PA90-A-20 1-ONE WAY SIGNAL (OVERHEAD), END MOUNTED 2-TYPE 10B-POLE MOUNTED AT 0' & 270' 2-PEDESTRIAN PUSH BUTTONS W/2-PEDESTRIAN INSTRUCTION SIGNS (R10-4C) EXTEND INTO HH#9 : 3"RSC 2-12/C#12 3-3/C#12
3	TYPE PA90-A-40-D40-9 1-ONE WAY SIGNAL (OVERHEAD), END MOUNTED 1-ONE WAY SIGNAL (OVERHEAD), MID MAST ARM MOUNTED 18' FROM END 2-TYPE 10B-POLE MOUNTED AT 0' AND 270' LUMINAIRE AT 355-200 WATT HPS W/PEC/CH.SW. 2-PEDESTRIAN PUSH BUTTONS W/2-PEDESTRIAN INSTRUCTION SIGNS (R10-4C) EXTEND INTO HH#12 : 3"RSC 2-12/C#12 2-3/C#12 2-1/C#10
4	TYPE PA90-A-25 1-ONE WAY SIGNAL (OVERHEAD), END MOUNTED 2-TYPE 10B-POLE MOUNTED AT 0' & 270' 2-PEDESTRIAN PUSH BUTTONS W/2-PEDESTRIAN INSTRUCTION SIGNS (R10-4C) EXTEND INTO HH#4 : 3"RSC 2-12/C#12 3-3/C#12

**B** EQUIPMENT PAD (SEE DETAIL)  
CONTROLLER AND CABINET (SEE DETAIL)  
EXTEND INTO HH2: 4"RSC; 4-12/C#12, 5-3/C#14, AND 5-2/C#14  
EXTEND INTO HH6: 4"RSC; 4-12/C#12, 5-3/C#14, AND 13-2/C#14;  
2"RSC; 6 PR.#19  
PAD MOUNTED METER AND DISCONNECT  
EXTEND INTO HH2 FROM DISCONNECT 1-1/4"RSC WITH 4-1/C#10  
DISCONNECT TO METER: 1-1/4"RSC WITH 3-1/C#2  
DISCONNECT TO CABINET: 1-1/4"RSC WITH 2-1/C#6 AND 1-1/C#6  
BR. GR.  
EXTEND FROM METER: 2"RSC WITH 3-1/C#2 INTO HH1



POLE NO.	SIGN PANEL	SIZE	NO. REQ.	NO. BRACKETS PER SIGN	BRACKET SPACING	SO. FT. PER SIGN	a
1	D3	96"x18"	1	2	54"	12.00	25'
1	R10-10L	24"x30"	1	2	18"	5.00	2'
2	D1	72"x18"	1	2	54"	9.00	12'
3	D3	96"x18"	1	2	54"	12.00	25'
3	R10-10L	24"x30"	1	2	18"	5.00	2'
4	D1	72"x18"	1	2	54"	9.00	15'

- NOTES : (TYPE "D" SIGNS ONLY)  
 1. COLOR - WHITE LEGEND AND BORDER ON GREEN BACKGROUND, FULLY REFLECTORIZED.  
 2. CORNERS EXTENDING BEYOND THE BORDER SHALL NOT BE TRIMMED.  
 3. FOR STRUCTURAL DETAILS, TYPE D SIGNS; SEE STANDARD SIGNS MANUAL, PAGE 105A.  
 4. FOR TYPE D STRINGER AND PANEL-JOINT DETAIL, SEE STANDARD SIGNS MANUAL.  
 5. SEE DETAIL SHEET FOR TYPE D SIGN DETAILS.

**LEGEND**

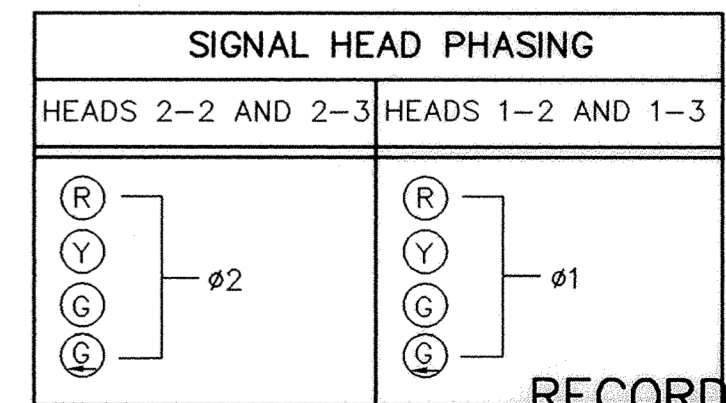
- SIGNAL BASE NO.
- SIGNAL FACE NO.
- CONTROLLER AND CABINET
- HANDHOLE
- RIGID STEEL CONDUIT (RSC)
- SIGNAL FACE WITH BACKGROUND SHIELD
- PEDESTRIAN INDICATIONS
- PEDESTRIAN PUSH BUTTON ON POLE
- TRAFFIC SIGNAL POLE AND MAST ARM
- MAST ARM AND LUMINAIRE
- SOURCE OF POWER
- PEDESTRIAN CROSSING STRIPING

DESIGNATION	PHASE	SIZE (FT.)	FUNCTION	DISTANCE FROM STOP BAR
D2-1	2	1-6'X6'	1	140'
D2-2	2	1-6'X6'	1	140'
D2-3	2	2-6'X6'	1	5' AND 20'
D2-4	2	2-6'X6'	1	5' AND 20'
D3-1	3	2-6'X6'	1	5' AND 35'
D4-1	4	1-6'X6'	1	140'
D4-2	4	1-6'X6'	1	140'
D4-3	4	2-6'X6'	1	5' AND 20'
D4-4	4	2-6'X6'	1	5' AND 20'
D1-1	1	1-6'X6'	1	140'
D1-2	1	1-6'X6'	1	140'
D1-3	1	2-6'X6'	1	5' AND 20'
D1-4	1	3-6'X6'	2	-
D7-1	7	2-6'X6'	1	5' AND 35'
D8-1	8	1-6'X6'	1	140'
D8-2	8	1-6'X6'	1	140'
D8-3	8	2-6'X6'	1	5' AND 20'
D8-4	8	2-6'X6'	1	5' AND 20'

**DETECTOR FUNCTION**  
 1) CALL AND EXTEND  
 2) DELAY CALL, IMMEDIATE EXTEND

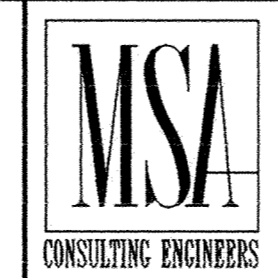
SIGNAL FACE	PHASE (#)	TYPE AND SIZE (INCHES)					
		R	Y	G	R	Y	G
2-1	2	12	12	12	-	-	-
2-2	2	12	12	12	-	-	12
2-3	2	12	12	12	-	-	12
3-1	3	-	-	-	12	12	12
4-1	4	12	12	12	-	-	-
4-2	4	12	12	12	-	-	-
1-1	1	12	12	12	-	-	-
1-2	1	12	12	12	-	-	12
1-3	1	12	12	12	-	-	12
7-1	7	-	-	-	12	12	12
8-1	8	12	12	12	-	-	-
8-2	8	12	12	12	-	-	-
3-2	3	-	-	-	12	12	12
7-2	7	-	-	-	12	12	12

NOTE: SYSTEM SHALL FLASH ALL RED.



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 4/19/94 REG. NO. 18925  
 Gladys Sorenson

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 4/19/94 REG. NO. 21849  
 George M. Stumpflig



1326 ENERGY PARK DRIVE  
 ST. PAUL, MINNESOTA 55108  
 (612) 644-4389  
 9800 SHELARD PARKWAY  
 MINNEAPOLIS, MINNESOTA 55441  
 (612) 546-0432

DATE	DESCRIPTION	DESIGNED -GMS
6-13-94	ADD HEADS 3-2 & 7-2	CHECKED
		DRAWN -MRF

GRAPHIC SCALE  
 0 HORIZ. 20  
 0 VERT. 5

CITY OF ELK RIVER  
 INTERSECTION LAYOUT  
 SYSTEM "B"  
 SCHOOL STREET AT FREEPORT AVENUE  
 S.A.P. 204-107-04/204-124-02  
 DATE APRIL 1994 SHEET 61 OF 74 SHEETS PROJECT NO. 230-216