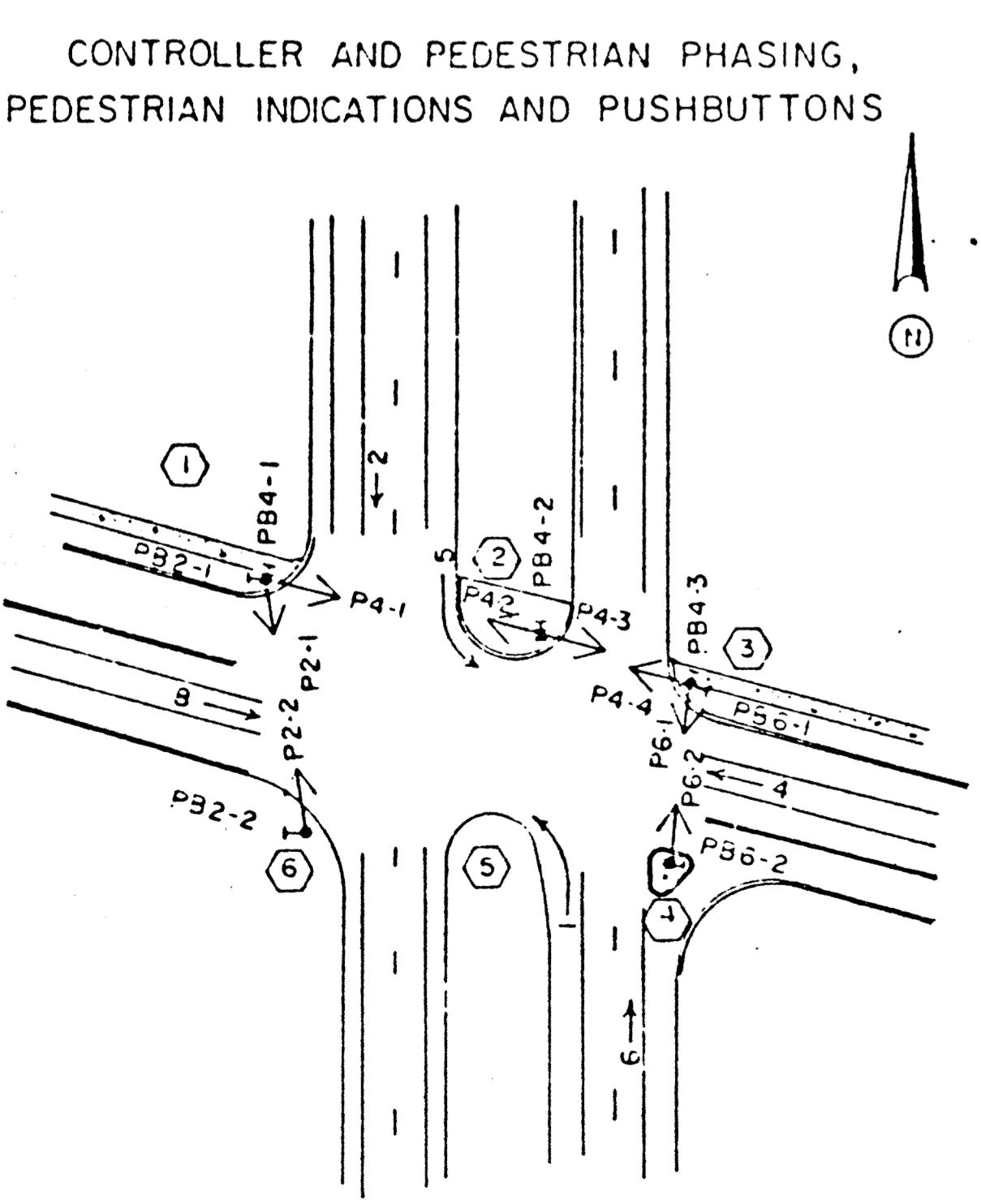


DETECTOR CHART				DISTANCE FROM STOP BAR
DESIGNATION	PHASE	SIZE (IN FT)	FUNCTION	
D1-1	1	MULTIPLE	1	0
D2-1	2	MAGNETIC	1	400'
D2-2	2	MAGNETIC	1	400'
D3-1	4	MAGNETIC	1	120'
D4-2	4	MAGNETIC	1	120'
D4-3	4	6 X 10	1	2'
D4-4	4	6 X 10	1	2'
D4-5	4	10 X 6	1	2'
D5-1	5	MULTIPLE	1	0
D6-1	6	MAGNETIC	1	400'
D6-2	6	MAGNETIC	1	400'
D8-1	8	MAGNETIC	1	120'
D8-2	8	MAGNETIC	1	120'
D8-3	8	6 X 10	1	2'
D8-4	8	6 X 10	1	2'
D8-5	8	10 X 6	2	2'

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

SIGNAL INDICATION CHART						
FACE	PHASE	FLASH	TYPE AND SIZE (IN INCHES)			G
			R	Y	G	
2-1						
2-2	2	Y				
4-1						
4-2	4	R				
6-1			12"	12"	12"	-
6-2	6	Y				
8-1						
8-2	8	R				
1-1			12"	12"	12"	-
5-1	5					



(SEE DETAILS SHEET NO.2) LOCATION OF SALVAGED FLASHER TO BE STAKED BY ENGINEER (APPROX. 1100' FROM H.H.7)  
 1-3/C #4 ARMORED CABLE (APPROX. 1100')  
 SPLICE TO 2-1/C #6 & 1-1/C #6 BR.GR. (TIE TO SHIELD) IN H.H.7

H.H.7 TO H.H.6 (APPROX. 190')  
 2" NMC  
 2-2/C #14  
 2-1/C #6  
 1-1/C #6 BR.GR.

H.H.6 TO H.H.5 (APPROX. 190')  
 2" NMC  
 2-2/C #14  
 2-1/C #6  
 1-1/C #6 BR.GR.

H.H.5 TO H.H.4  
 4" RSC  
 3-12/C #12  
 4-3/C #12  
 8-2/C #14  
 2-1/C #10  
 2-1/C #6  
 1-1/C #6 BR.GR.

H.H.4 TO H.H.3  
 1 1/4" RSC  
 2-2/C #14

H.H.3 TO H.H.2  
 1 1/4" RSC  
 2-2/C #14

H.H.2 TO H.H.1  
 3" RSC  
 2-1/C #10  
 2-1/C #6  
 1-1/C #6 BR.GR.

H.H.1 TO H.H.17  
 3" RSC  
 2-12/C #12  
 4-3/C #12  
 3-2/C #14  
 2-1/C #10

H.H.14 TO H.H.13  
 3" RSC  
 2-12/C #12  
 4-3/C #12  
 3-2/C #14  
 2-1/C #10

TYPE P-90 A-35 D40-9  
 1-ONEWAY SIGNAL (OVERHEAD) END MOUNTED  
 1-ONEWAY SIGNAL (OVERHEAD) MID MASTARM MOUNTED 11' FROM END  
 TYPE 20C POLE MOUNTED 270°  
 LUMINAIRE-200 WATT HPS (APPROX. 350°) WITH PEC/CH SW  
 2-PEDESTRIAN PUSH BUTTONS & SIGNS  
 EXTEND INTO H.H.10  
 3" RSC  
 2-12/C #12  
 2-3/C #12  
 2-1/C #10

TYPE 2D  
 PEDESTAL POLE, BASE & FOUNDATION  
 4-STEEL GUARD POSTS  
 1-PEDESTRIAN PUSH BUTTON & SIGN  
 EXTEND INTO H.H.9  
 3" RSC  
 1-12/C #12  
 2-3/C #12

H.H.8 TO H.H.5  
 3" RSC  
 3-12/C #12  
 4-3/C #12  
 6-2/C #14  
 2-1/C #10

H.H.9 TO H.H.8  
 3" RSC  
 3-12/C #12  
 4-3/C #12  
 5-2/C #14  
 2-1/C #10

H.H.10 TO H.H.9  
 3" RSC  
 2-12/C #12  
 2-3/C #12  
 5-2/C #14  
 2-1/C #10

H.H.11 TO H.H.10  
 1 1/4" RSC  
 5-2/C #14

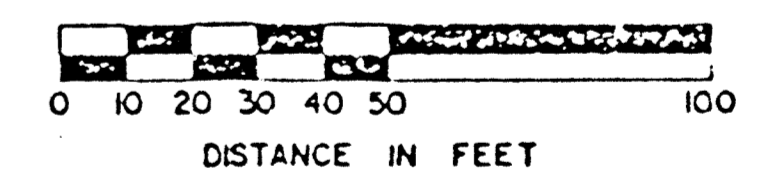
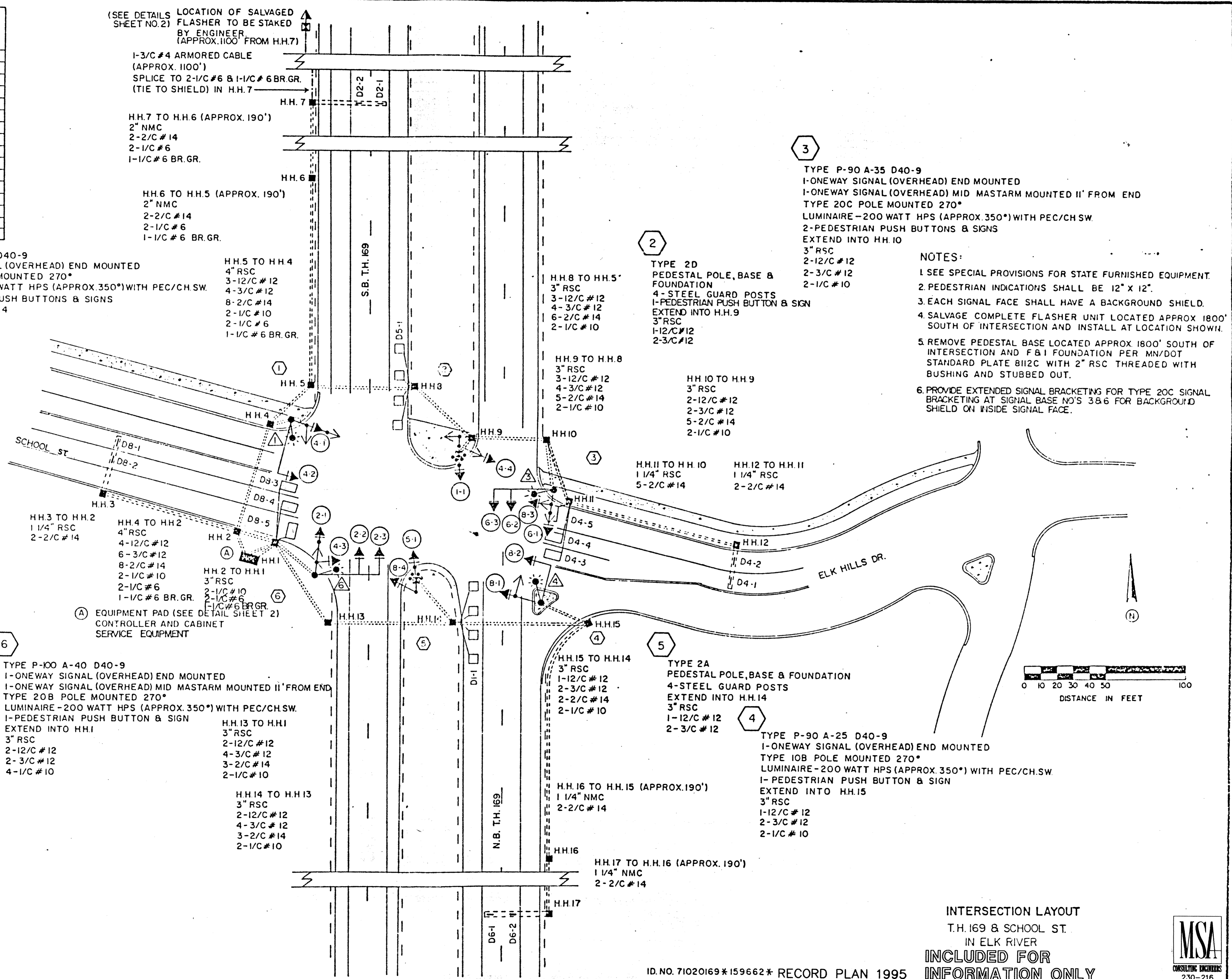
H.H.12 TO H.H.11  
 1 1/4" RSC  
 2-2/C #14

H.H.15 TO H.H.14  
 3" RSC  
 1-12/C #12  
 2-3/C #12  
 2-2/C #14  
 2-1/C #10

H.H.16 TO H.H.15 (APPROX. 190')  
 1 1/4" NMC  
 2-2/C #14

H.H.17 TO H.H.16 (APPROX. 190')  
 1 1/4" NMC  
 2-2/C #14

**NOTES:**  
 1. SEE SPECIAL PROVISIONS FOR STATE FURNISHED EQUIPMENT.  
 2. PEDESTRIAN INDICATIONS SHALL BE 12" X 12".  
 3. EACH SIGNAL FACE SHALL HAVE A BACKGROUND SHIELD.  
 4. SALVAGE COMPLETE FLASHER UNIT LOCATED APPROX 1800' SOUTH OF INTERSECTION AND INSTALL AT LOCATION SHOWN.  
 5. REMOVE PEDESTAL BASE LOCATED APPROX 1800' SOUTH OF INTERSECTION AND F&I FOUNDATION PER MN/DOT STANDARD PLATE B112C WITH 2" RSC THREADED WITH BUSHING AND STUBBED OUT.  
 6. PROVIDE EXTENDED SIGNAL BRACKETING FOR TYPE 20C SIGNAL BRACKETING AT SIGNAL BASE NO'S 3&6 FOR BACKGROUND SHIELD ON INSIDE SIGNAL FACE.



INTERSECTION LAYOUT  
 T.H. 169 & SCHOOL ST.  
 IN ELK RIVER  
 INCLUDED FOR  
 INFORMATION ONLY

