

7016

- ONE WAY EVP DETECTOR AND
LIGHT.(ø2,5)-OVERHEAD

① TYPE A-35-D-40-12
ONE WAY SIGNAL (OVERHEAD)
2. TYPE 10B AT 90° + 210°
2 PED. PUSH BUTTONS
LUMINAIRE (250W HID-SV; 350W)
EXTEND INTO HALL, 3" RSC,
1-1/2" C #12, 9-3/4" C #12, 4-1/4" C #10
1-3/4" C #12, 1-3/4" C #20

ONE WAY EVP DETECTOR AND
LIGHT (ø4)—OVERHEAD

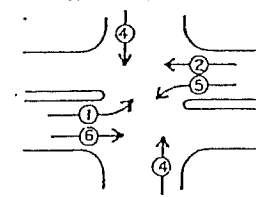
(2) TYPE A-25
ONE WAY SIGNAL (OVERHEAD)
TYPE 10B AT 270°, TYPE 130A AT 90°
2 PED. PUSH BUTTONS
EXTEND INTO HH7; 3" RSC;
2-1/2"C #12, 4-3/4" #12
1-3/4" #12, 1-3/4" #20

③ ONE WAY SIGNAL -(TYPE 1A)
EXTEND INTO HH 6; 3" RSC,
1-12/C #12; 2-3/C #12

ONE WAY¹ EVP DETECTOR AND
LIGHT (ø6,1)-OVERHEAD

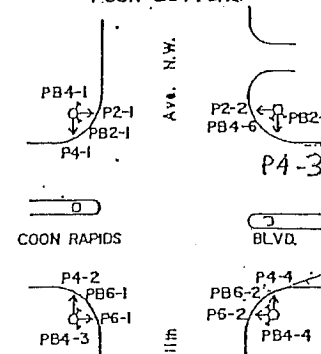
TYPE A-35-D-40-12
ONE WAY SIGNAL (OVERHEAD)
2-TYPE JOB AT 40° & 270°
2 PED PUSH BUTTONS
LUMINAIRE (250w MID-SV, 350°)
EXTEND INTO HH 8: 3" RSC,
1-2/C #12, 3-3/C #10, 2-1/C #10
1-3/C #12, 1-3/C #10

SIGNAL PHASING



A horizontal line with vertical tick marks at each end. Above the line, the text "20'" is centered. Below the line, the word "SCALE" is centered.

PEDESTRIAN SIGNALS AND PUSH BUTTONS



INSTALL 1 1/4" RSC RISER,
WEATHER HEAD, 3-1/4" x 6
EXTEND TO SERVICE PED'L

INSTALL DISCONNECT, METER BASE
IN CABINET, EXTEND INTO HH I
1 1/4" RSC, 2-1/4" x 10"
EXTEND INTO CONTROLLER CABINET
1 1/4" RSC, 2-1/4" x 6"

EXTEND INTO HH1 2-3" RSC —
6-12/C#12, 7-3/C#12, 8-2/CS#14
4-3/C#12, 4-3/C#20

4'-1"

2'-1"

3" RSC

2-12/C #12

4-3/C #12

2-2/CS #14

1-3/C #12

1-3/C #20

C.L.

2" NMC, 1-12/C #12, 1-2/CS #14
PLACE UNDER CURBLINE
HHS

TO CONTROLLER AT MISSISSIPPI
HANDHOLES EVERY 180' MAX.
2" NMC, J-12/C#12

D2-
300'
STO
6x2

Coon Rapids Blvd (CSAH 1)
(45 mph)

— 1 1/4" RSC, 1-2/CS #14
PLACE ABOVE EXISTING
PAVEMENT

2-3" RSC
2-12/C #12
4-3/C #12
4-2/CS #14
2-1/C #10
2-3/c #12
2-3/c #20

Diagram showing a structure labeled "4-6' x 6' LOOPS". Dimensions indicated are 46', 30', and 13'.

3' RSC →
2-12/C #12
3-3/C #12
2-2/CS #14
2-1/C #10
2-3/C #12
2-3/C #20

-Coon Rapids Blvd
(CSAH 1)
(45 mph)

ONE WAY EVP DETECTOR AND
LIGHT (ø4)-OVERHEAD

(5) TYPE A-35
ONE WAY SIGNAL (OVERHEAD)
TYPE 10B AT 270°, TYPE 30A AT 90°
2 PED. PUSH BUTTONS
EXTEND INTO HH 9; 3" PSC,
1-12/C #12, 6-3/C #12
1-3/C #12, 1-3/C #20

RECORD PLAN
FOR LED PROJECT
(PLANS CONFIRMED
FOR PROJECT WORK ONLY)
DATE M/G, 06-10-10

⑥ ONE WAY SIGNAL-(TYPE 1A)
EXTEND INTO HH 12, 3" RSC,
2-12/C #12, 3-3/C #12

3" RSC
1-12/C #12
3-3/C #12
2-2/CS #14
2-1/C #10
1-3/C #12
1-3/C #20

- 9) CONTRACTOR SHALL REMOVE ALL INPLACE INCANDESCENT AND OPTICALLY PROGRAMMED "RED", "YELLOW", AND "GREEN" VEHICLE SIGNAL INDICATION LENSES, AND SHALL FURNISH AND INSTALL NEW LED INDICATIONS IN THEIR PLACE.
- 10) CONTRACTOR SHALL REMOVE ALL INPLACE PEDESTRIAN PUSH BUTTONS (8 TOTAL), R10-4c STICKER SIGNS, AND "MEANING OF WALK" STICKER SIGNS, & SHALL FURNISH & INSTALL NEW SOLID STATE PED PUSH BUTTONS AND R10-3e SIGNS IN THEIR PLACE.
- 11) CONTRACTOR SHALL MAINTAIN OPERATION OF THE SIGNAL SYSTEM AT ALL TIMES, EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER.
- 12) SEE STATEMENT OF ESTIMATED QUANTITIES FOR BID ITEMS FOR WORK AT THIS SIGNAL SYSTEM.

LED SIGNAL FACES			
SIGNAL FACE	ALL 12"		
	R	Y	G
1-1			
2-1, 2-2			
4-1, 4-2, 4-3			
4-4, 4-5, 4-6			
5-1			
6-1, 6-2			

S.P. 114-030-10
CITY PROJECT NO. 09-18

REVISIONS

I HEREBY CERTIFY THAT THIS PLAN 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

John M. Gray Name: John M. Gray, PE
Date: May 18, 2009 No. 22457

SEH

PHONE: (651) 490-2000
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110

COON RAPIDS,
MINNESOTA

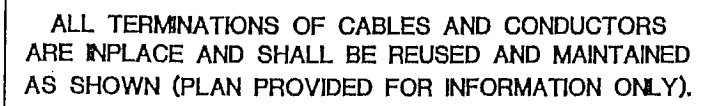
LED RETROFIT-SYSTEM 'T'
INTERSECTION LAYOUT
CSAH 1 AT 111TH AVENUE

FILE NO.	107418
DATE	05/18/200

22

131

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DRAWN BY: JMG
DESIGNER: JMG
CHECKED BY: JMG
DESIGN TEAM

NO.	BY	DATE

I HEREBY CERTIFY THAT THIS PLAN 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

 Name: John M. Gray, PE

Date: May 18, 2009 Lic. No. 22457



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ST. PAUL, MN 55110

LED RETROFIT-SYSTEM "T"
FIELD WIRING DIAGRAM
CSAH 1 AT 11TH AVENUE

FILE NO. 107418
DATE 05/18/2009

23

131