PLOTTED/REVISED: 12/2/2014

TH 10/61 SB OFF RAMP

TH 10/61 SB

TH 10/61 NB ON RAMP

3" RSC
STUBBED OUT
OF BR TO HH 10
3-12/C#12
5-3/C#12
2-3/C#20
4-2/C#14

3" RSC
STUBBED OUT
OF BR TO HH 13 WITH
3-12/C#12
5-3/C#12
2-3/C#20
4-2/C#14

4" RSC
5-12/C#12
8-3/C#12
2-3/C#20
4-2/C#14

3" RSC
STUBBED OUT
OF BR TO HH 12 WITH
3-12/C#12
4-3/C#12
8-2/C#14
1-3/C#20

3" RSC
3-12/C#12
5-3/C#12
2-3/C#20
4-2/C#14

3" RSC
3-12/C#12
4-3/C#12
8-2/C#14
1-3/C#20

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

3" RSC
3-12/C#12
4-3/C#12
6-2/C#14
1-3/C#20

2" RSC
1-2/C#14

2" RSC
4-2/C#14

BR 62915

Ø4

JB 7

JB 6

D6-3

D6-4

OLA

OLC

D1-3

D1-4

D5-4

BR 62900

OLD

D5-3

OLB

D2-4

D2-3

JB 1

JB 2

D4-3

D4-4

D4-2

3" RSC
STUBBED OUT
OF BR TO HH 9 WITH
3-12/C#12
4-3/C#12
4-2/C#14

3" RSC
1-12/C#12
2-3/C#12
2-3/#20

EVP 1+6

EVP 2+5

EVP 4

4" RSC
4-12/C#12
6-3/C#12
1-3/C#20
4-2/C#14

+300

BR 62901Ø5

+300 Ø2

D5-2

D5-1

MAXWELL AVE
ZONED 40 MPH

Ø2

JB 3

5+400

2" RSC
2-2/C#14

2" RSC
INTO HH 8
4-2/C#14

3" RSC
2-12/C#12
4-3/C#12

TH 10/61 SB ON RAMP

3" RSC
2-2/C#14

3" RSC
STUBBED OUT
OF BR TO HH 5 WITH
4-2/C#14

TH 10/61 NB

3" RSC
1-5/C#12
1-3/C#12
5-2/C#14

3" RSC
3-12/C#12
4-3/C#12
8-2/C#14
1-3/C#20

EVP 3
+OLA

EVP 1+6

EVP 2+5

2" PVC
2-2/C#14
1-3/C#20
1-6/PR#19
1-3/C#20

1-6PR#19
DIRECT BURIED

BAILEY RD
ZONED 40 MPH

Ø6

Ø1

3" RSC
2-12/C#12
1-5/C#12
5-3/C#12
1-3/C#20
9-2/C#14

3" RSC
2-12/C#12
1-5/C#12
5-3/C#12
1-3/C#20
7-2/C#14

D1-1

D1-2

D6-1

D6-2

D3-1

D3-2

D3-3

Ø3

2" PVC
1-2/C#14

TH 10/61 NB OFF RAMP

F/O

N

40

SCALE IN FEET

1 SEE THE TMS PLAN FOR FIBER OPTICS.

BY	DATE	REVISIONS
EJA	12-02-14	AS-BUILT OF SP 1913-75 FIBER & CAMERA

SYSTEM ID: 22521 T.E. 5870
METER ADDRESS: 1600 SOUTH TH 61
MASTER ID: T.E.

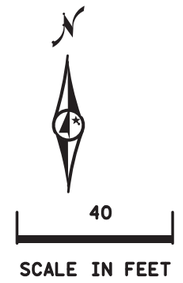
INTERSECTION LAYOUT
T.H. 61/10 AT MAXWELL AVE/
CSAH 20 (BAILEY RD) RAMPS
IN ST.PAUL, RAMSEY COUNTY

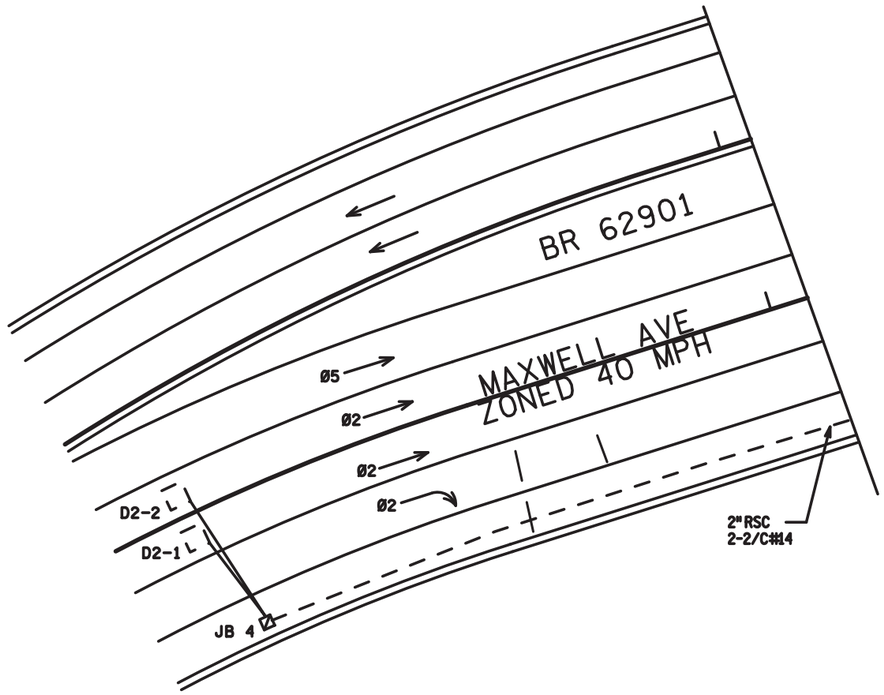
S.A.P. NO. | DRAWN BY: SJK | CKD BY: EJA | DATE: 09-10-13

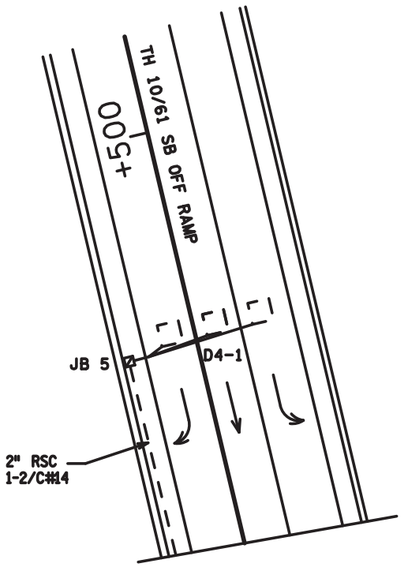
CERTIFIED BY Michael P. Gibrusky LICENSED PROFESSIONAL ENGINEER LIC. NO. 19863 DATE: 09-10-13

STATE PROJ.NO. (T.H.61) SHEET NO. 1 OF 4 SHEETS

DISTRICT *: METRO
IPLOT NAME: layout
PATH & FILENAME: IP_PWP:d0779847\NT22521_sgl.dgn







BY	DATE	REVISIONS
EJA	12-02-14	AS-BUILT OF SP 1913-75 FIBER & CAMERA

SYSTEM ID: 22521 T.E. 5870
METER ADDRESS: 1600 SOUTH TH 61
MASTER ID: T.E.

MATCH LINES
T.H. 61/10 AT MAXWELL AVE/
CSAH 20 (BAILEY RD) RAMPS
IN ST.PAUL, RAMSEY COUNTY

S.A.P. NO. | DRAWN BY: SJK | CKD BY: EJA | DATE: 09-10-13

CERTIFIED BY Michael P. Gibrosky LICENSED PROFESSIONAL ENGINEER LIC. NO. 19863 DATE: 09-10-13

STATE PROJ.NO. (T.H.61) SHEET NO. 3 OF 4 SHEETS

PLOTTED/REVISED: 12/2/2014

(1) PA100 POLE FOUNDATION
TYPE PA100-A-40-X400
1-VIDEO CAMERA WITH MOUNT
ONE WAY SIGNAL (OVERHEAD)
2-TYPE 10A AT 90 AND 180 DEG
ONE WAY EVP DETECTOR &
CONFIRMATORY LIGHT (PHASE 3)
2-R6-1L SIGN (ONE WAY)
1-R6-1R SIGN (ONE WAY)
2-R9-3 SIGNS (FACING POLES 2 & 7)
1-TYPE D SIGN (D-1)
3" RSC INTO HH 14 WITH
2-12/C#12
2-3/C#12
1-3/C#20
1-7/16" GROUNDING BRAID
TO GROUND ROD IN HH 14
1-3/C #14 (CAMERA POWER)
1-COM CABLE
1-COAXIAL CABLE

(2) PEDESTAL FOUNDATION
8' SIGNAL PEDESTAL POLE PLUS BASE
ONE WAY EVP DETECTOR (PHASES 1 & 6)
3" RSC INTO HH 2 WITH
1-3/C#20

(3) PA100 POLE FOUNDATION
TYPE PA100-A-50-D40-9(DAVIT AT 350 DEG)
3-ONE WAY SIGNAL (OVERHEAD)
(0, 11' AND 23' FROM END OF MAST ARM)
TYPE 10A AT 180 DEG
TYPE 10B AT 270 DEG
LUMINAIRE-250W HPS
ONE WAY, TWO CHANNEL EVP DETECTOR
(PHASES 1 & 6 AND 2 & 5)
CONFIRMATORY LIGHT (PHASES 2, 4 & 5)
1-PED PB & R10-4B SIGN
1-R9-3 SIGN (FACING POLE 1)
1-TYPE D SIGN (D-3)
3" RSC INTO HH 4 WITH
2-12/C#12
3-3/C#12
1-3/C#14 (LUM)
1-3/C#20

(4) PEDESTAL FOUNDATION
8' SIGNAL PEDESTAL POLE PLUS BASE
TYPE 4A
1-R6-1L SIGN (ONE WAY)
1-R6-1R SIGN (ONE WAY)
1-PED PB & R10-4B SIGN
1-R9-3 SIGN (FACING POLE 7)
3" RSC INTO HH 5 WITH
1-5/C#12
1-3/C#12

(5) PA100 POLE FOUNDATION
TYPE PA100-A-55-D40-9 (DAVIT AT 350 DEG)
3-ONE WAY SIGNAL (OVERHEAD)
(0, 11' AND 23' FROM END OF MAST ARM)
TYPE 10A AT 90 DEG
TYPE 10B AT 180 DEG
LUMINAIRE-250W HPS
ONE WAY EVP CONFIRMATORY
LIGHT (PHASE 2 & 5)
1-PED PB & R10-4B SIGN
1-TYPE D SIGN (D-4)
3" RSC INTO HH 7 WITH
2-12/C#12
3-3/C#12
1-3/C#12 (LUM)

(6) PA90 POLE FOUNDATION
TYPE PA90-A-35
ONE WAY SIGNAL (OVERHEAD)
TYPE 10B AT 90 DEG
TYPE 10A AT 180 DEG
ONE WAY EVP DETECTOR &
CONFIRMATORY LIGHT (PHASE 4)
1-R6-1L SIGN (ONE WAY)
1-R6-1R SIGN (ONE WAY)
1-PED PB & R10-4B SIGN
1-R9-3 SIGN (FACING POLE 6)
1-TYPE D SIGN (D-2)
3" INTO HH 8 WITH
2-12/C#12
2-3/C#12
1-3/C#20

(7) PA100 POLE FOUNDATION
TYPE PA100-A-50-D40-9 (DAVIT AT 350 DEG)
3-ONE WAY SIGNAL (OVERHEAD)
(0, 11' AND 23' FROM END OF MAST ARM)
TYPE 20A AT 180 DEG
LUMINAIRE-250W HPS
1-TWO WAY, TWO CHANNEL EVP DETECTOR
(PHASE 1, 6 & 3 AND PHASE 2 & 5)
CONFIRMATORY LIGHT (PHASE 1, 6 & 3)
2-R9-3 SIGNS (FACING POLES 5 & 7)
1-TYPE D SIGN (D-5)
3" RSC INTO HH 10 WITH
2-12/C#12
2-3/C#12
1-3/C#12 (LUM)
2-3/C#20

SIGNAL HEAD CHART

FACES	R	Y	G
6-4	○	○	↑
1-2,1-3	←	←	←
2-1,2-2,2-3,2-4,2-5,2-6	○	○	○
3-1,3-2,3-3,3-4	○	○	○
4-1,4-2,4-3,4-4	○	○	○
2-7	○	○	↑
5-2,5-3	←	←	←
6-1,6-2,6-3,6-4,6-5,6-6	○	○	○

ALL INDICATIONS ARE 12 INCH LED
EACH SIGNAL FACE HAS A BACKBROUND SHIELD

PVC LOOP DETECTORS

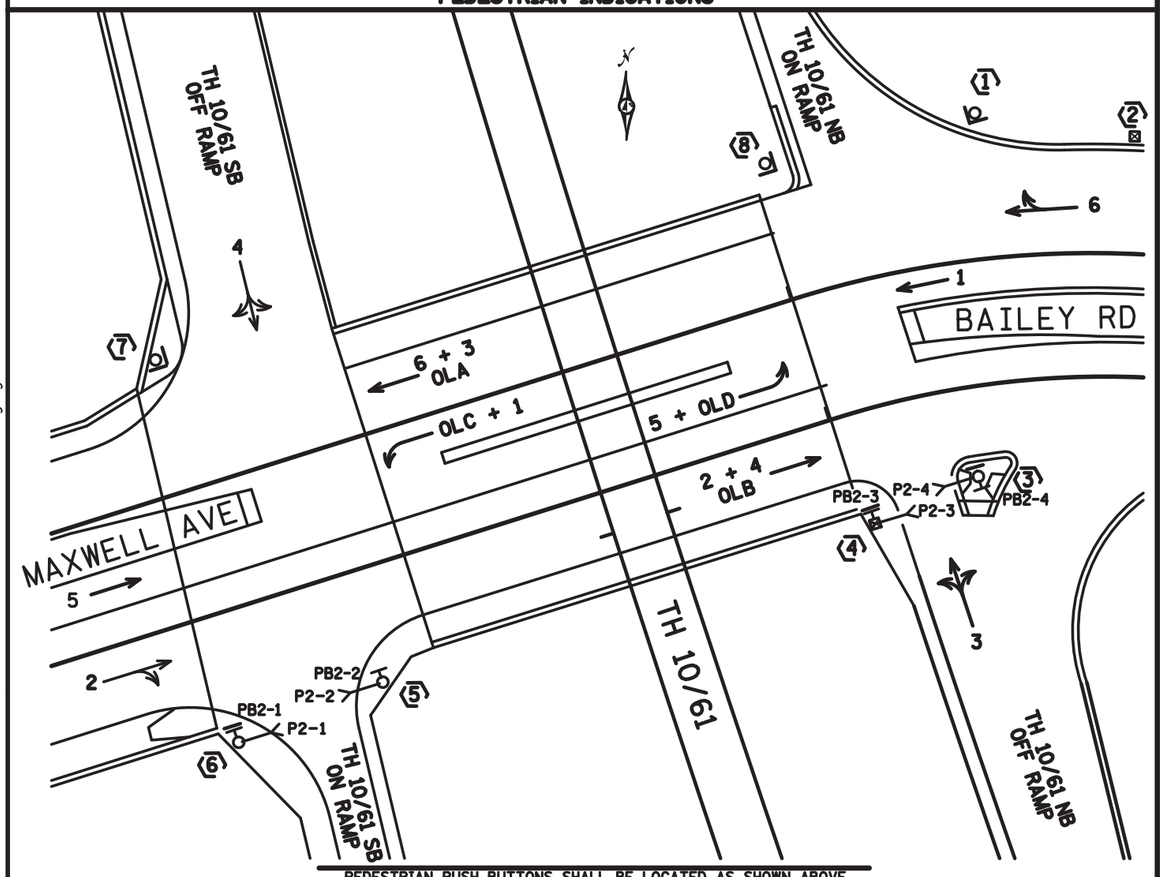
DESIGNATION	SIZE (FEET)	LOCATION
D1-1, D1-2	6X6	10 & 40
D1-3, D1-4	6X6	10 & 40
D2-1, D2-2	6X6	250
D2-3, D2-4	6X6	85
D3-1	2-6X6	180
D3-2, D3-3	6X6	3
D4-1	3-6X6	180
D4-2	6X15	0
D4-3, D4-4	2-6X6	10
D5-1, D5-2	6X6	10 & 40
D5-3, D5-4	6X6	10 & 40
D6-1, D6-2	6X6	250
D6-3, D6-4	6X6	85

LOCATION = DISTANCE IN FEET FROM
STOP BAR/PEDESTRIAN MARKINGS TO
FRONT OF DETECTOR.

(8) PA100 POLE FOUNDATION
TYPE PA100-A-45-D40-9 (DAVIT AT 350 DEG)
3-ONE WAY SIGNAL (OVERHEAD)
(0 , 11' AND 23' FROM END OF MAST ARM)
2-TYPE 10A AT 90 AND 180 DEG
LUMINAIRE-250W HPS
ONE WAY EVP CONFIRMATORY LIGHT (PHASES 1 & 6)
2-R9-3 SIGNS (FACING POLES 1 & 3)
1-TYPE D SIGN (D-6)
3" RSC INTO HH 13 WITH
2-12/C#12
2-3/C#12
1-3/C#12 (LUM)

(B) SOP
45' WOOD POLE (CL 2)
2" RSC RISER & WEATHERHEAD
WITH 3-1/C#3/0 TO SHARED EQUIPMENT
PAD VIA HH 15

CONTROLLER PHASING, TYPE "R" SIGNS AND PEDESTRIAN INDICATIONS



PEDESTRIAN PUSH BUTTONS SHALL BE LOCATED AS SHOWN ABOVE

(A) SHARED EQUIPMENT PAD
CONTROLLER & CABINET
SERVICE CABINET

CABINET TO HH 1
4" RSC
3" RSC
5-12/C#12
1-5/C#12
7-3/C#12
2-3/C#20
19-2/C#14
1-6PR#19

CABINET TO HH 14
4" RSC
3" RSC
7-12/C#12
8-3/C#12
3-3/C#20
4-2/C#14
1-3/C #14 (CAMERA POWER)
1-COM CABLE
1-COAXIAL CABLE

SERVICE CABINET TO CONTROLLER CABINET
2" RSC
2-1/C#6
1-1/C#6 INS. GR.

SERVICE CABINET TO HH 1
2" RSC
4-3/C#12 (LUM)

HH 1 TO HH 14
2" RSC
2-3/C#12 (LUM)

SERVICE CABINET TO HH 15
2" RSC
3-1/C#2

CONTROLLER CABINET TO TMS VAULT
1 1/2" PVC INSIDE 3" RSC STUB OUT
1-FIBER OPTIC CABLE (6SM)
WITH PRE-TERMINATED CABLE END

SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 6 PHASE, WITH PHASE 5 & 1 BEING A PROTECTED LEFT TURN PHASE.
- PHASES 4 AND 3 WILL RUN SPLIT PHASE
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

(1) SEE THE TMS PLAN FOR FIBER OPTICS.

BY	DATE	REVISIONS
		AS-BUILT OF SP 1913-75 FIBER & CAMERA

SYSTEM ID: 22521 T.E. 5870
METER ADDRESS: 1600 SOUTH TH 61
MASTER ID: T.E.

POLE NOTES, PHASING AND PED CHART
T.H. 61/10 AT MAXWELL AVE/
CSAH 20 (BAILEY RD) RAMPS
IN ST.PAUL, RAMSEY COUNTY

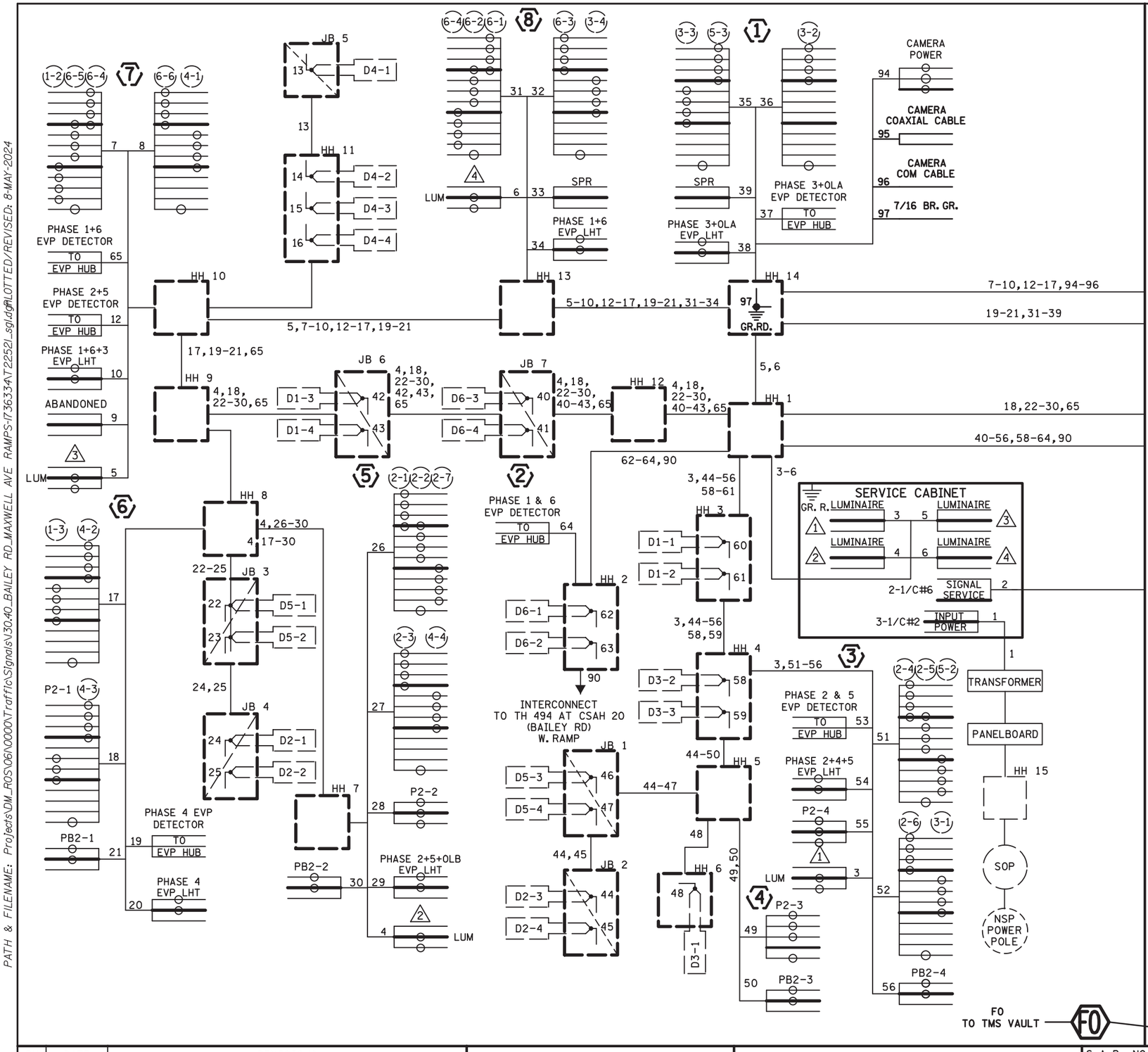
S.A.P. NO. | DRAWN BY: SJK | CKD BY: EJA | DATE: 09-10-13

CERTIFIED BY Michael P. Gibesky LICENSED PROFESSIONAL ENGINEER LIC. NO. 19863 DATE: 09-10-13

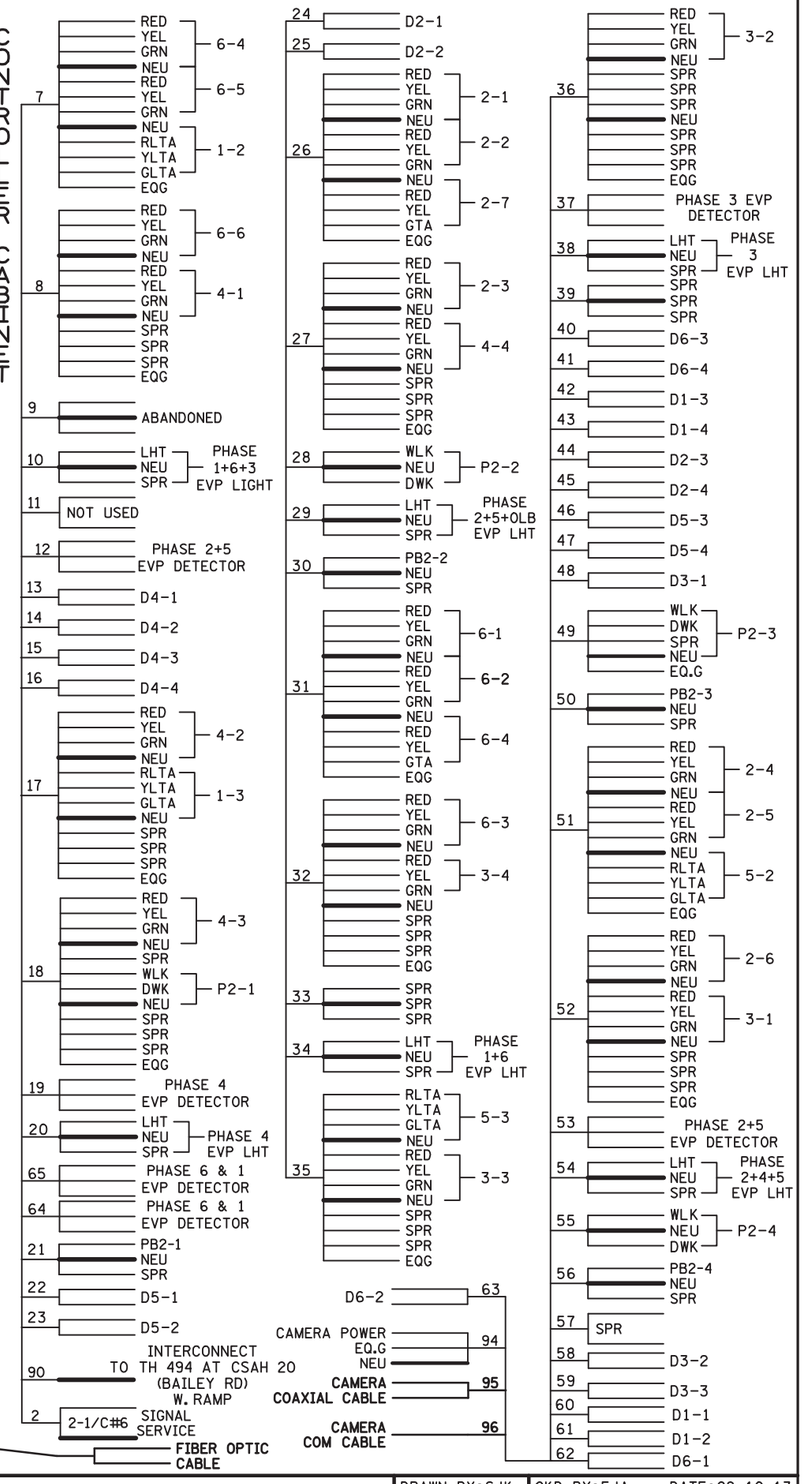
STATE PROJ.NO. 1913-75 (T.H.61) SHEET NO. 2 OF 4 SHEETS

DISTRICT *: METRO
IPLOT NAME: pole notes
PATH & FILENAME: IP_PWP:d0779847\T22521_sgl.dgn

DISTRICT #: Metro
IPLOT NAME: T22521.sgl
PATH & FILENAME: Projects\DM_ROS\06\0000\Traffic\Signals\130,40_BAILEY RD_MAXWELL AVE RAMPS-1736334\T22521_sgl.dgn PLOTTED/REVISED: 8-MAY-2024



CONTROLLER CABINET



BY	DATE	REVISIONS
SJK	5/8/24	UPDATED 2 & 5 EVP DETECTOR CABLE

SYSTEM ID: 1736334 T.E. 5870
METER ADDRESS: 1600 SOUTH TH 61
MASTER ID: T.E.

FIELD WIRING DIAGRAM
T.H. 61/10 AT MAXWELL AVE/
CSAH 20 (BAILEY RD) RAMPS
IN ST.PAUL, RAMSEY COUNTY

S.A.P. NO. | DRAWN BY:SJK | CKD BY:EJA | DATE:09-10-13

CERTIFIED BY _____ LIC. NO. 19863 DATE: 09-10-13
LICENSED PROFESSIONAL ENGINEER

STATE PROJ.NO. (T.H.61) SHEET NO. 4 OF 4 SHEETS