

PLOT NAME: T20766_sgl
 PATH & FILENAME: Projects\DM_R05\952\A0000\Traffic\Signals\20766 (Emerson Ave)\T20766_sgl.dgn
 PLOTTED/REVISED: 21-JUN-2018

1 STA. 183+12.90 NB
 24.10' RT
 PA100 POLE FOUNDATION
 TYPE PA100-A-40-D35-8 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED IND AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 2+5)
 LUMINAIRE-LED (250W HPS REPLACEMENT)
 X6-350/CAM 400 EXTENSION
 IP CAMERA (STATE FURNISHED)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-8) (SEE SIGN DETAILS)
 3" CONDUIT TO HH-14:
 2-12/C #14
 1-6/C #14
 2-4/C #14
 * 1-3/C #14
 1-3/C #14 (LUM)
 1-3/C #14 (CAMERA G POWER)
 * 1-3/C #20
 1-CAT 6
 1-COAXIAL CABLE
 1-1/C #6 INS. GR.

2 STA. 182+20.93 NB
 31.76' RT
 PA90 POLE FOUNDATION
 TYPE PA90-A-25
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED IND AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 4+7)
 1-R10-X12 SIGN ADJACENT TO HEAD (4-2)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH-3:
 2-12/C #14
 2-4/C #14
 * 1-3/C #14
 * 1-3/C #20
 1-1/C #6 INS. GR.

A EQUIPMENT PAD (SEE DETAIL SHEET)
 SERVICE CABINET (SSB)
 CONTROLLER AND CABINET (STATE FURNISHED)

4" CONDUIT TO HH-1	4" CONDUIT TO HH-1
2-12/C #14	2-12/C #14
1-6/C #14	2-4/C #14
2-4/C #14	* 1-3/C #14
* 1-3/C #14	3-2/C #14
9-2/C #14	* 1-3/C #20
* 1-3/C #20	1-1/C #6 INS. GR.

4" CONDUIT TO HH-14	4" CONDUIT TO HH-14
2-12/C #14	2-12/C #14
2-4/C #14	1-6/C #14
* 1-3/C #14	2-4/C #14
8-2/C #14	* 1-3/C #14
* 1-3/C #20	1-3/C #14 (CAMERA G POWER)
	* 1-3/C #20
	1-CAT 6
	1-COAXIAL CABLE
	1-1/C #6 INS. GR.

** 1 1/2" CONDUIT TO PV-24
 ** 1-FO PIGTAIL (6SM)

2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 3/4" CONDUIT STUBBED OUT (FOR TELEPHONE LINE)
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 2-1/C #6
 1-1/C #6 INS. GR.
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT
 1-6PR #19
 SERVICE CABINET TO INPLACE POLE MOUNTED TRANSFORMER
 2" CONDUIT
 3-1/C #2
 2" CONDUIT TO HH-15:
 2-3/C #14 (LUM)

B SOP-WOOD POLE (INPLACE)
 2" CONDUIT INTO SERVICE CABINET
 3-1/C #2


NOTES:

- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
- THE EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS, EQUIPMENT PAD, AND PEDESTRIAN CURB RAMPS SHALL BE DETERMINED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER FOR THE TRAFFIC SIGNAL SYSTEM.
- FOR TYPE D SIGNS SEE DETAIL SHEET. ALL SIGNS REQUIRED ARE INCIDENTAL.
- FOR PAVEMENT MARKINGS SEE PAVEMENT MARKING PLANS.
- FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK, SEE ROADWAY PLANS.
- THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
- ALL NEW CONDUIT SHALL BE PVC - SCHEDULE 80 OR HDPE SCHEDULE 80 AND SHALL CARRY 1/C#6 GREEN INSULATED GROUNDING CONDUCTOR AS SHOWN IN THE PLAN.
- ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
- ITEMS DENOTED WITH AN ** ARE INCLUDED IN PAYMENT FOR THE INTERCONNECT SYSTEM A PAY ITEM.
- SEE JOINT TRENCH DETAIL ON SHEET#T517 FOR TYPICAL PLACEMENT OF INTERCONNECT CONDUIT.
- ITEMS DENOTED WITH A ▲ ARE INCLUDED IN PAYMENT FOR THE INTERCONNECT SYSTEM B PAY ITEM.
- ALL HANDHOLES, SPLICE VAULTS, AND PULL BOXES LOCATED IN SIDEWALKS SHALL BE SET TO MATCH THE RUNNING SLOPE AND CROSS SLOPE OF THE SIDEWALK.

3 STA. 382+06.28 SB
 19.11' LT
 PA100 POLE FOUNDATION
 TYPE PA100-A-40-D35-8 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-STRAIGHT MOUNT SIGNALS OVERHEAD AT 11' AND 23'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED IND AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 1+6)
 LUMINAIRE-LED (250W HPS REPLACEMENT)
 1-R10-X12 SIGN ADJACENT TO HEAD (1-1)
 1-TYPE D SIGN (D-8) (SEE SIGN DETAILS)
 3" CONDUIT TO HH-7:
 2-12/C #14
 1-6/C #14
 2-4/C #14
 * 1-3/C #14
 1-3/C #14 (LUM)
 * 1-3/C #20
 1-1/C #6 INS. GR.

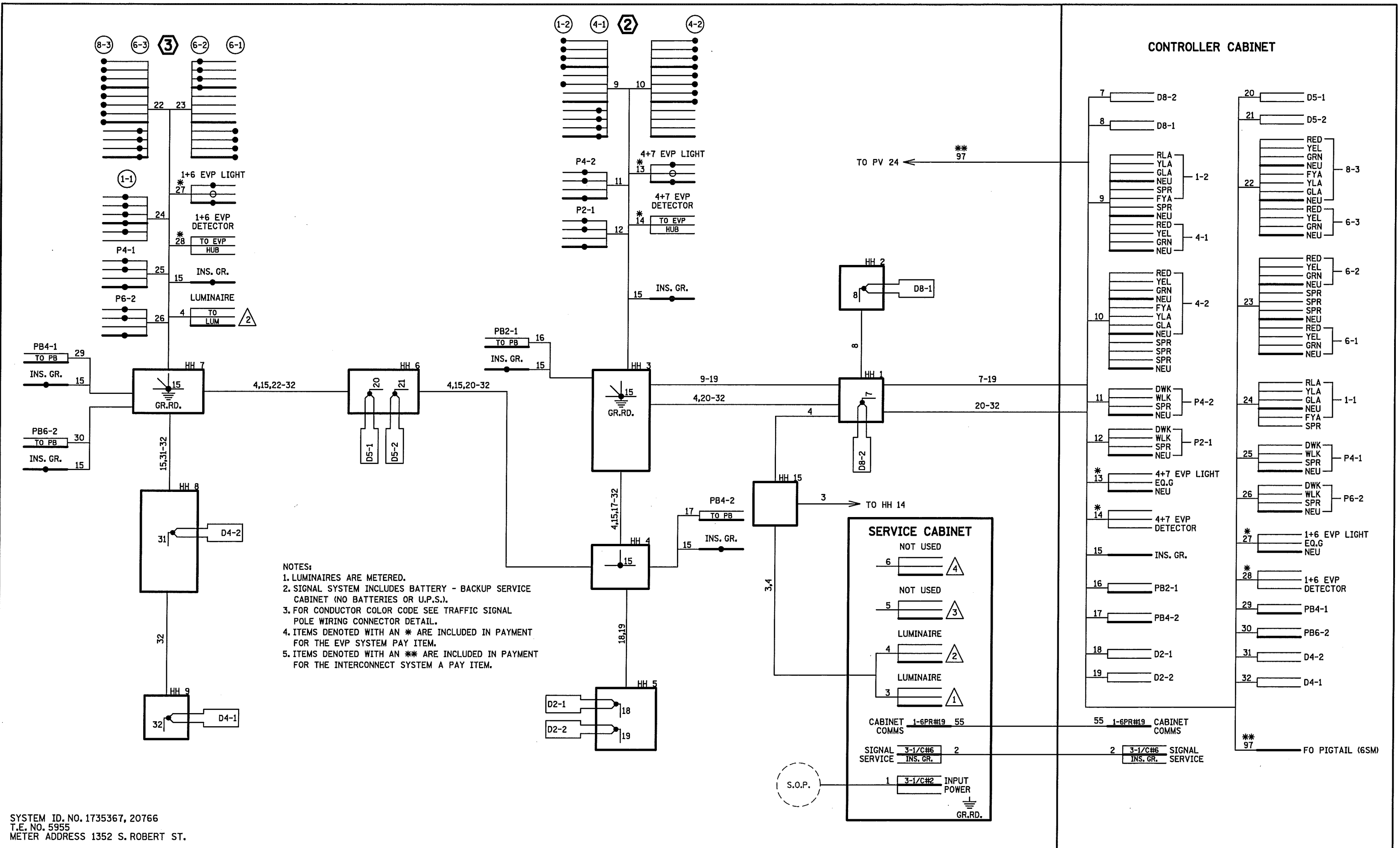
4 STA. 382+97.57 SB
 31.54' LT
 PA90 POLE FOUNDATION
 TYPE PA90-A-30
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
 2-ANGLE MOUNT C.D. PED IND AT 90 AND 180 DEG
 1-ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT (PHASES 3+8)
 1-R10-X12 SIGN ADJACENT TO HEAD (8-2)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH-10:
 2-12/C #14
 2-4/C #14
 * 1-3/C #14
 * 1-3/C #20
 1-1/C #6 INS. GR.

SYSTEM ID. NO. 1735367, 20766
 T.E. NO. 5955
 METER ADDRESS 1352 S. ROBERT ST.

06-2018	SJK		AS-BUILT PLAN	I hereby certify that this plan, specification, or report 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. Print Name: ADRIAN S. POTTER Date <u>08/06/2014</u> License # <u>42785</u>	STATE PROJECT NO. 173-010-007, 019-608-002 019-614-012, 019-673-007 STATE PROJECT NO. 1908-B4 (T.H. 952A) COUNTY PROJECT NO. 97-136, 6-07 CITY PROJECT NO. 11-3	DRAWN BY R. W. SMITH DESIGNED BY R. W. SMITH CHECKED BY A. S. POTTER COMM. NO. 0107294	 ENGINEERS PLANNERS DESIGNERS	CITY OF WEST ST. PAUL TRAFFIC SIGNAL PLANS AND DETAILS ROBERT STREET IMPROVEMENT PROJECT INTERSECTION LAYOUT SYSTEM "G" (SHEET 2 OF 2) T.H. 952A (ROBERT ST.) AT EMERSON AVE.	SHEET 1101 OF 1320
NO	DATE	BY	CKD		APPR	REVISION			

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- NOTES:
1. LUMINAIRES ARE METERED.
 2. SIGNAL SYSTEM INCLUDES BATTERY - BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).
 3. FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
 4. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
 5. ITEMS DENOTED WITH AN ** ARE INCLUDED IN PAYMENT FOR THE INTERCONNECT SYSTEM A PAY ITEM.

SYSTEM ID. NO. 1735367, 20766
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NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification, or report 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.
 Print Name: **ADRIAN S. POTTER**
 Date: **08/06/2014** License #: **42785**

STATE PROJECT NO. 173-010-007, 019-608-002, 019-614-012, 019-673-007
 STATE PROJECT NO. 1908-84 (T.H. 952A)
 COUNTY PROJECT NO. 97-136, 6-07
 CITY PROJECT NO. 11-3

DRAWN BY: **R. W. SMITH**
 DESIGNED BY: **R. W. SMITH**
 CHECKED BY: **A. S. POTTER**
 COMM. NO. 0107294



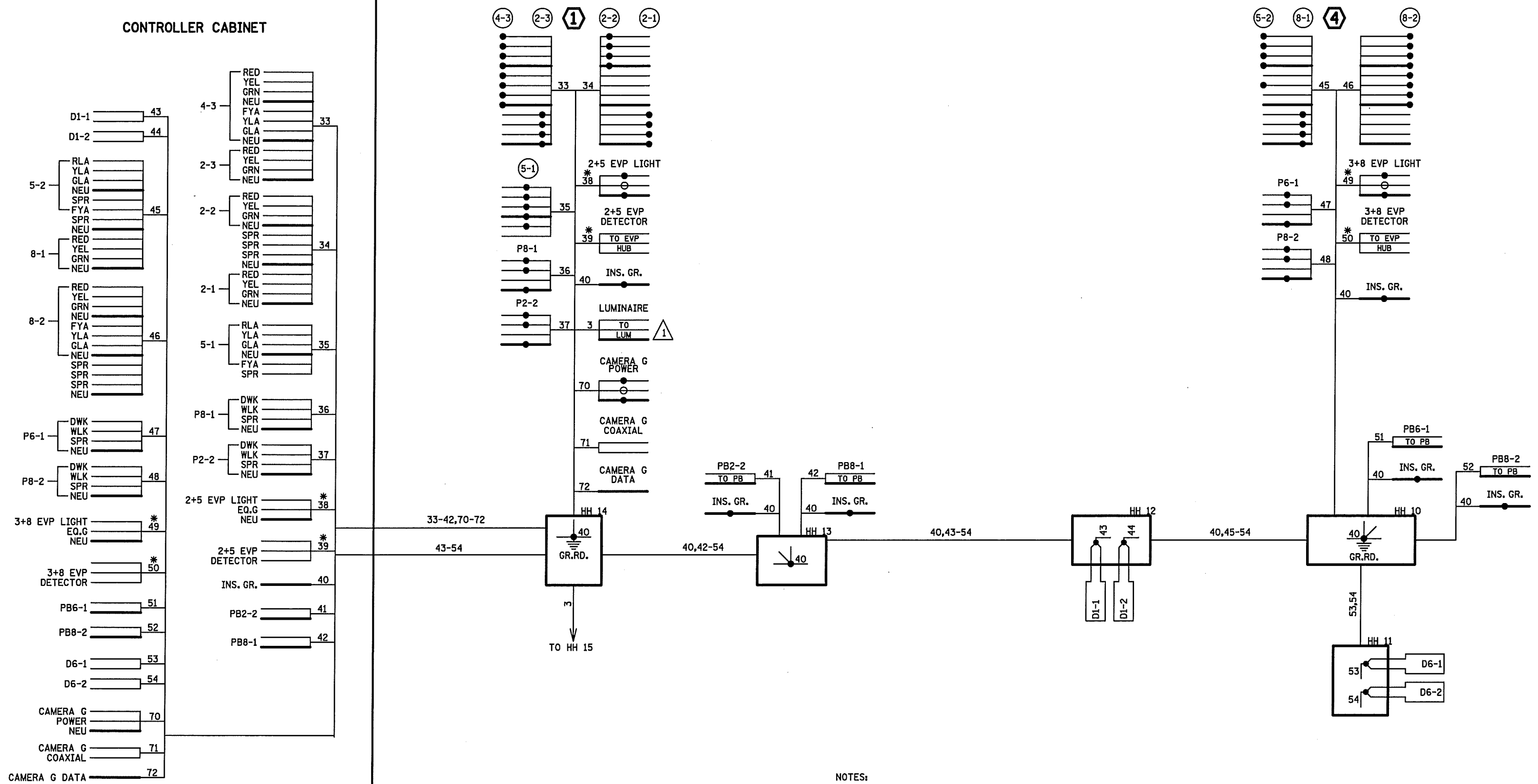
ENGINEERS
PLANNERS
DESIGNERS

CITY OF WEST ST. PAUL
 TRAFFIC SIGNAL PLANS AND DETAILS
 ROBERT STREET IMPROVEMENT PROJECT
 FIELD WIRING DIAGRAM SYSTEM "G" (SHEET 1 OF 2)
 T.H. 952A (ROBERT ST.) AT EMERSON AVE.

SHEET
1102
OF
1320

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CONTROLLER CABINET



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 - ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
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SYSTEM ID. NO. 1735367, 20766
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 Print Name: **ADRIAN S. PÖTTER**
 Date 08/06/2014 License # 42785

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 STATE PROJECT NO. 1908-84 (T.H. 952A)
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DRAWN BY R. W. SMITH
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**ENGINEERS
 PLANNERS
 DESIGNERS**

CITY OF WEST ST. PAUL
 TRAFFIC SIGNAL PLANS AND DETAILS
ROBERT STREET IMPROVEMENT PROJECT
 FIELD WIRING DIAGRAM SYSTEM "G" (SHEET 2 OF 2)
 T.H. 952A (ROBERT ST.) AT EMERSON AVE.

**SHEET
 1103
 OF
 1320**