

DISTRICT #: Metro
 IPLOT NAME: T20764.sgl
 PATH & FILENAME: Projects\DM_POS\952A\0000\Traffic\Signals\20764 (Wentworth Ave)\T20764.sgl.dgn

LED SIGNAL INDICATIONS

HEAD	R	Y	FYA	G
1-1,1-2	←	←	←	←
2-1,2-2,2-3	●	●	●	●
3-1,3-2	←	←	←	←
4-1,4-2	●	●	●	●
5-1,5-2	←	←	←	←
6-1,6-2,6-3	●	●	●	●
7-1,7-2	←	←	←	←
8-1,8-2	●	●	●	●

-ALL SIGNAL INDICATIONS SHALL BE 12" LED
 -ALL SIGNAL HEADS SHALL BE BLACK
 -POLYCARBONITE WITH BACKGROUND SHIELDS
 -FYA DENOTES FLASHING YELLOW ARROW

STA. 356+01.82 SB
 29.56' LT
 PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB4-1)
 EXTEND INTO HH-7
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

STA. 356+10.49 SB
 38.13' LT
 PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB6-2)
 EXTEND INTO HH-7
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

STA. 356+88.78 SB
 39.97' LT
 PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB6-1)
 EXTEND INTO HH-10
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

STA. 356+95.15 SB
 32.24' LT
 PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB8-2)
 EXTEND INTO HH-10
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

STA. 155+99.94 NB
 34.66' RT
 PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB4-2)
 EXTEND INTO HH-3
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

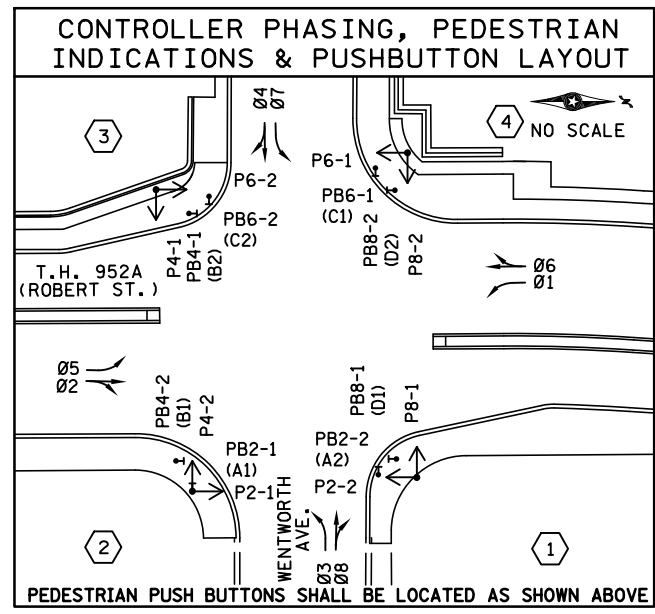
STA. 156+83.63 NB
 40.50' RT
 PED PB STATION
 1-APS PB AND SIGN
 (RT ARROW) (PB2-2)
 EXTEND INTO HH-14
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

STA. 156+91.26 NB
 31.10' RT
 PED PB STATION
 1-APS PB AND SIGN
 (LT ARROW) (PB8-1)
 EXTEND INTO HH-14
 1" CONDUIT
 1-2/C #14
 1-1/C #6 INS. GR.

LOOP DETECTOR CHART

DESIGNATION	QTY-SIZE	LOCATION
D1-1	2-6' X6'	20', 50'
D1-2	2-6' X6'	5', 35'
D2-1, D2-2	1-6' X6'	180'
D3-1	2-6' X6'	20', 50'
D3-2	2-6' X6'	5', 35'
D4-1	1-6' X6'	180'
D4-2	2-6' X6'	-5', 10'
D4-3	2-6' X6'	5', 20'
D5-1	2-6' X6'	20', 50'
D5-2	2-6' X6'	5', 35'
D6-1, D6-2	1-6' X6'	220'
D7-1	2-6' X6'	20', 50'
D7-2	2-6' X6'	5', 35'
D8-1	1-6' X6'	180'
D8-2	2-6' X6'	-10', 10'
D8-3	2-6' X6'	5', 20'

-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE
 -LOCATION: DISTANCE FROM CROSSWALK/ STOP LINE IN FEET



SIGNAL SYSTEM OPERATION

- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASES 1, 3, 5 AND 7 BEING FLASHING YELLOW LEFT TURN ARROWS BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

NO	DATE	BY	CKD	APPR	REVISION
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: **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



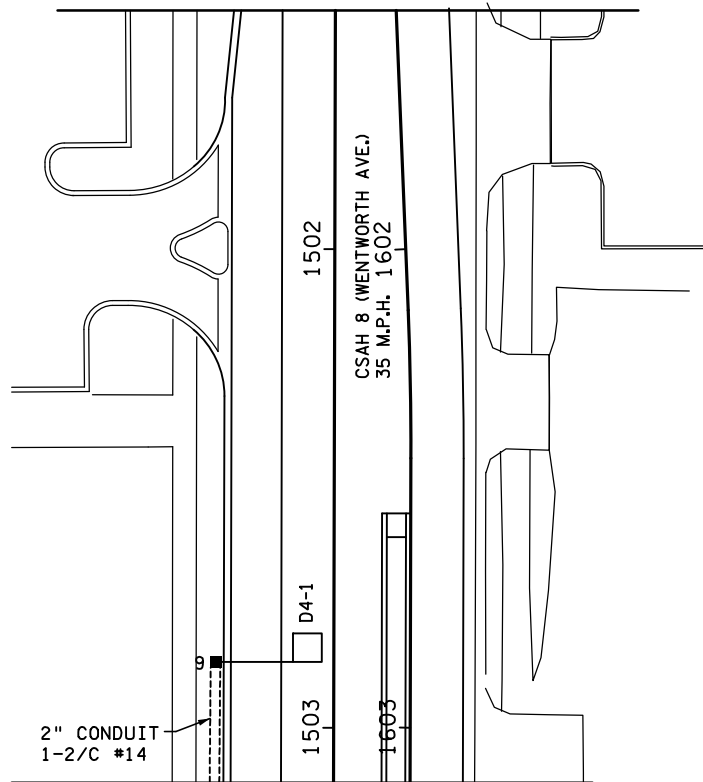
CITY OF WEST ST. PAUL
 TRAFFIC SIGNAL PLANS AND DETAILS
ROBERT STREET IMPROVEMENT PROJECT
 INTERSECTION LAYOUT SYSTEM "E"
 T.H. 952A (ROBERT ST.) AT CSAH 8 (WENTWORTH AVE.)

SHEET 1088 OF 1320

SYSTEM ID. NO. 1735365, 20764
 T.E. NO. 5953
 METER ADDRESS 129 W. WENTWORTH AVE.

DISTRICT #: Metro
 PLOT NAME: T20764.sgl
 PATH & FILENAME: Projects\DM_POS\952A\0000\Traffic\Signals\20764 (Wentworth Ave)\T20764.sgl.dgn

PLOTTED/REVISED: 20-JUN-2018



1 STA. 156+96.84 NB
 38.39' RT
 INPLACE POLE FOUNDATION
 TYPE PA100-A-50-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
 INSTALL - IP CAMERA (STATE FURNISHED)
 1-R10-X12 SIGN ADJACENT TO HEAD (5-1)
 1-TYPE D SIGN (D-6) (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 E POWER)
 * 1-3/C #20
 1-CAT 6
 1-COAXIAL CABLE
 1-1/C #6 INS. GR.

2 STA. 156+08.56 NB
 48.68' RT
 PA100 POLE FOUNDATION
 TYPE PA100-A-35-D35-8 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11'
 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)
 LUMINAIRE-LED (250W HPS REPLACEMENT)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 1-R10-X12 SIGN ADJACENT TO HEAD (7-1)
 1-APS PB AND SIGN (LT ARROW) (PB2-1)
 3" CONDUIT TO HH-3:
 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
 1-2/C #14
 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	1-6/C #14
2-4/C #14	2-4/C #14
* 1-3/C #14	* 1-3/C #14
1-3/C #14 (CAMERA E POWER)	11-2/C #14
7-2/C #14	* 1-3/C #20
* 1-3/C #20	
1-CAT 6	
1-COAXIAL CABLE	
1-1/C #6 INS. GR.	

4" CONDUIT TO HH-14	4" CONDUIT TO HH-14
2-12/C #14	2-12/C #14
1-6/C #14	1-6/C #14
2-4/C #14	2-4/C #14
* 1-3/C #14	* 1-3/C #14
7-2/C #14	1-2/C #14
* 1-3/C #20	* 1-3/C #20
1-1/C #6 INS. GR.	

** 1 1/2" CONDUIT TO PV-17
 ** 1-FO PIGTAIL (6SM)

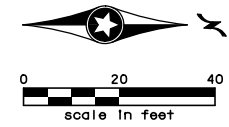
2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
 3/4" CONDUIT STUBBED OUT (FOR TELEPHONE LINE)
 CONTROLLER CABINET TO SERVICE CABINET:
 2" CONDUIT
 2-1/C #6
 1-1/C #6 INS. GR.
 CONTROLLER CABINET TO SERVICE CABINET (COMMS):
 2" CONDUIT
 1-6PR #19
 SERVICE CABINET TO INPLACE POLE MOUNTED TRANSFORMER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

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

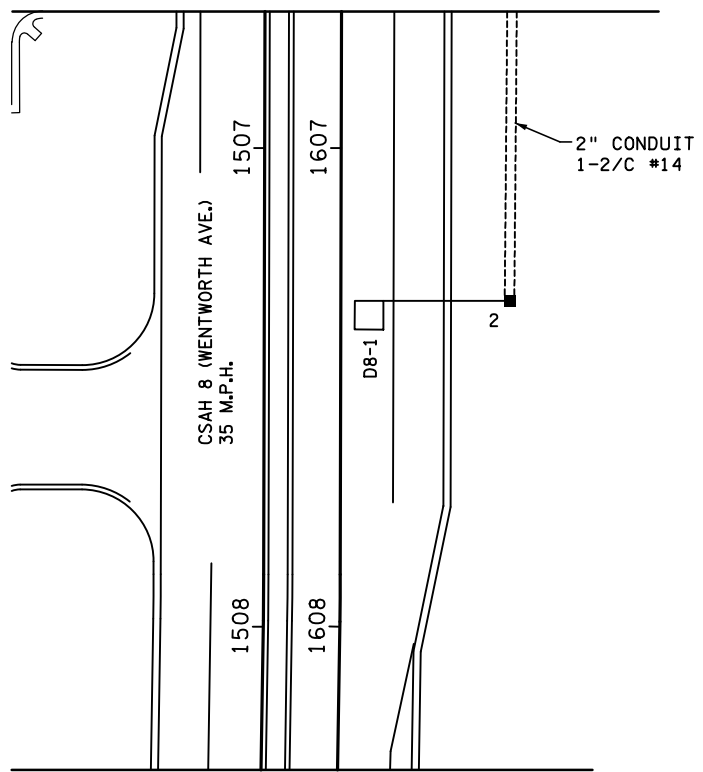
- NOTES:
- SEE SPECIAL PROVISIONS FOR STATE FURNISHED MATERIALS.
 - THE EXACT LOCATION OF HANDHOLES, POLES, LOOP DETECTORS, EQUIPMENT PAD, AND PEDESTRIAN CURB RAMPS SHALL BE DETERMINED IN THE FIELD BY MNDOT TRAFFIC OFFICE PERSONNEL.
 - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF 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#T17 FOR TYPICAL PLACEMENT OF INTERCONNECT CONDUIT.
 - REFER TO "FOR INFORMATION ONLY" SHEETS FOR INPLACE SIGNAL COMPONENTS.
 - ALL ITEMS SHOWN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
 - 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.

SYSTEM ID. NO. 1735365, 20764
 T.E. NO. 5953
 METER ADDRESS 129 W. WENTWORTH AVE.

MATCHLINE "C"
SEE SHEET #R05



MATCHLINE "D"
SEE SHEET #R05



3 STA. 355+90.27 SB
 35.63' LT
 PA100 POLE FOUNDATION
 TYPE PA100-A-50-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-6) (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. 356+92.35 SB
 47.48' LT
 PA100 POLE FOUNDATION
 TYPE PA100-A-40-D35-8 (DAVIT AT 350 DEG)
 1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
 1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 10'
 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)
 LUMINAIRE-LED (250W HPS REPLACEMENT)
 1-R10-X12 SIGN ADJACENT TO HEAD (3-1)
 1-TYPE D SIGN (D-1) (SEE SIGN DETAILS)
 3" CONDUIT TO HH-10:
 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.

06-2018	SJK		AS-BUILT PLAN
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

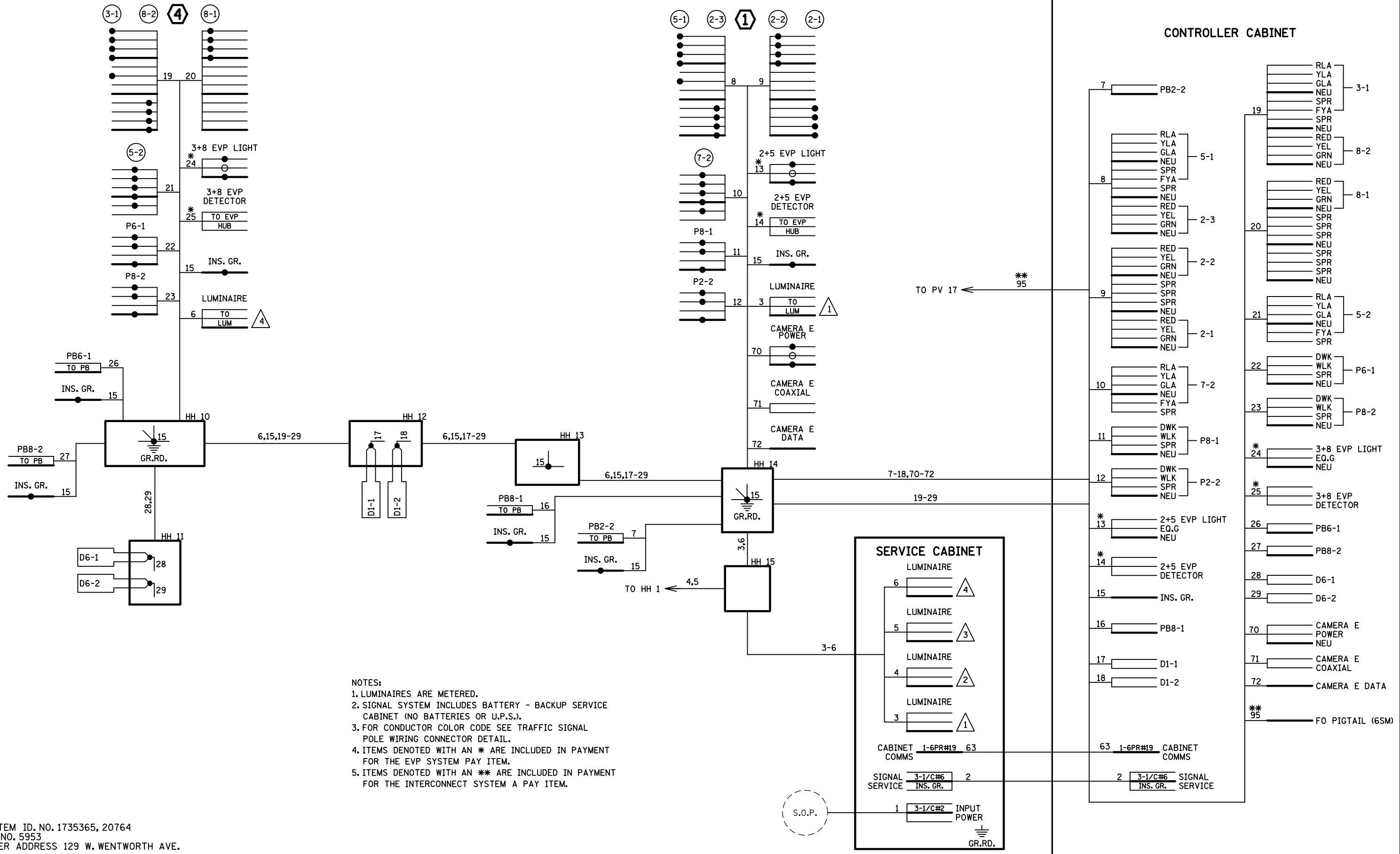
STATE PROJECT NO. 173-010-007, 019-608-002, 019-614-012, 019-673-007
 STATE PROJECT NO. 1908-84 (T.H. 952A)
 COUNTY PROJECT NO. 97-136, 6-07
 CITY PROJECT NO. 11-3

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

CITY OF WEST ST. PAUL
 TRAFFIC SIGNAL PLANS AND DETAILS
 ROBERT STREET IMPROVEMENT PROJECT
 MACHLINE LAYOUT AND SIGNAL NOTES SYSTEM "E"
 T.H. 952A (ROBERT ST.) AT CSAH 8 (WENTWORTH AVE.)

SHEET 1089 OF 1320

DISTRICT #: Metro
 IPLOT NAME: T20764.sgl
 PATH & FILENAME: Projects\DM_POS\952A\0000\Traffic\Signals\20764 (Wentworth Ave)\T20764.sgl.dgn
 PLOTTED/REVISED: 20-JUN-2018



- NOTES:**
- LUMINAIRES ARE METERED.
 - SIGNAL SYSTEM INCLUDES BATTERY - BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).
 - FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
 - 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.

SYSTEM ID. NO. 1735365, 20764
 T.E. NO. 5953
 METER ADDRESS 129 W. WENTWORTH AVE.

NO	DATE	BY	CKD	APPR	REVISION
06-2018		SJK			AS-BUILT PLAN

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 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

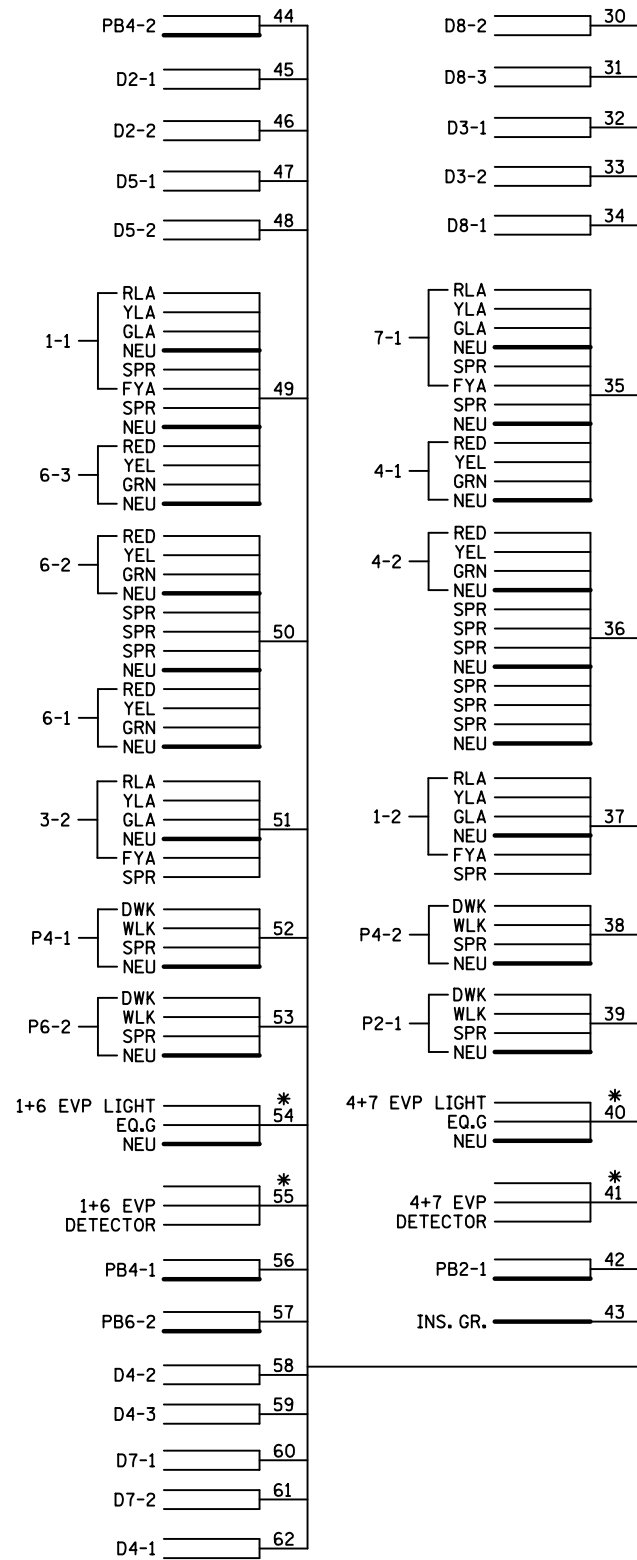


CITY OF WEST ST. PAUL
 TRAFFIC SIGNAL PLANS AND DETAILS
ROBERT STREET IMPROVEMENT PROJECT
 FIELD WIRING DIAGRAM SYSTEM "E" (SHEET 1 OF 2)
 T.H. 952A (ROBERT ST.) AT C.S.A.H. 8 (WENTWORTH AVE.)

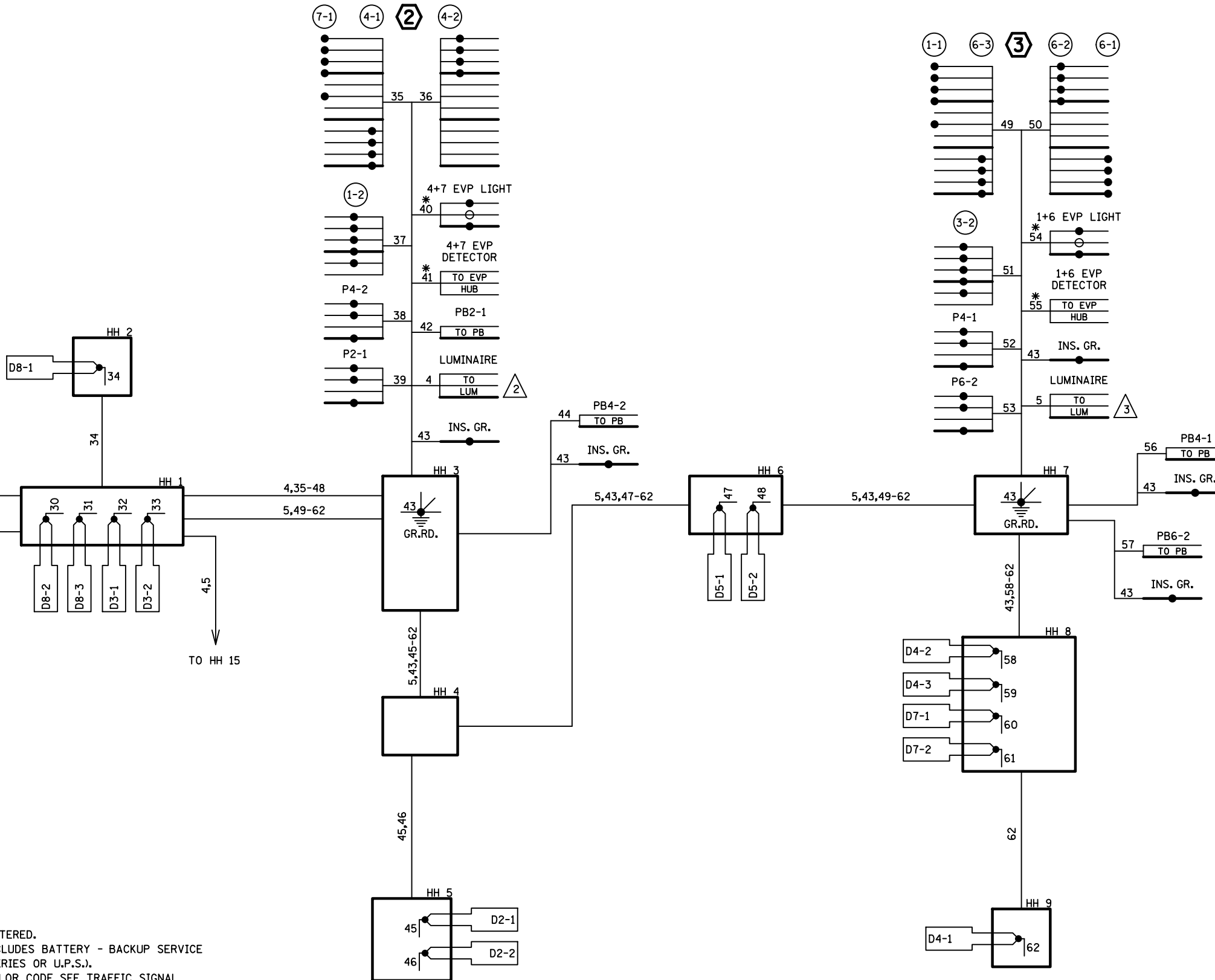
SHEET 1090 OF 1320

DISTRICT #: Metro
 IPLOT NAME: T20764.sgl
 PATH & FILENAME: Projects\DM_POS\952A\0000\Traffic\Signals\20764 (Wentworth Ave)\T20764.sgl.dgn
 PLOTTED/REVISED: 20-JUN-2018

CONTROLLER CABINET



- NOTES:**
- LUMINAIRES ARE METERED.
 - SIGNAL SYSTEM INCLUDES BATTERY - BACKUP SERVICE CABINET (NO BATTERIES OR U.P.S.).
 - FOR CONDUCTOR COLOR CODE SEE TRAFFIC SIGNAL POLE WIRING CONNECTOR DETAIL.
 - 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.



SYSTEM ID. NO. 1735365, 20764
 T.E. NO. 5953
 METER ADDRESS 129 W. WENTWORTH AVE.

06-2018 SJK AS-BUILT PLAN

NO	DATE	BY	CKD	APPR	REVISION

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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 "E" (SHEET 2 OF 2)
 T.H. 952A (ROBERT ST.) AT C.S.A.H. 8 (WENTWORTH AVE.)

SHEET
 1091
 OF
 1320

PLOTTED/REVISED: 3/4/2013

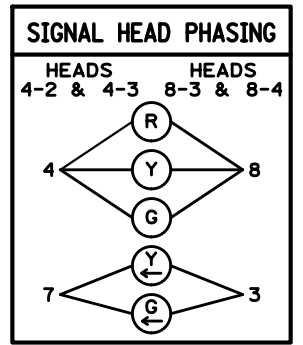
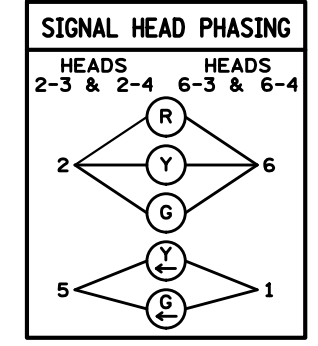
PVC DETECTOR CHART		
DET. NO.	QTY-SIZE	LOCATION
D1-1	2-6' x 6'	15',45"
D1-2	2-6' x 6'	0',30"
D2-1	6' x 6'	180'
D2-2	6' x 6'	180'
D3-1	2-6' x 6'	15',45"
D3-2	2-6' x 6'	0',30"
D4-1	6' x 6'	180'
D4-2	2-6' x 6'	+5',10"
D4-3	2-6' x 6'	0',15"
D5-1	2-6' x 6'	15',45"
D5-2	2-6' x 6'	0',30"
D6-1	6' x 6'	180'
D6-2	6' x 6'	180'
D7-1	2-6' x 6'	15',45"
D7-2	2-6' x 6'	0',30"
D8-1	6' x 6'	180'
D8-2	2-6' x 6'	+5',10"
D8-3	2-6' x 6'	0',15"

3 TYPE PA100-B40-D40-12 (DAVIT AT 350 DEG)
 PA100 POLE FOUNDATION
 2-ONE WAY SIGNALS OVERHEAD
 (0' AND 11' FROM END OF MAST ARM)
 2-ONE WAY SIGNALS MOUNTED AT 45 AND 225
 ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASE 8)
 2-CD PEDESTRIAN INDICATIONS MOUNTED AT 45 AND 225 DEG
 1-APS PEDESTRIAN PUSHBUTTON AND SIGN (PB6-2) (RT ARROW)
 LUMINAIRE - 250 WATT HPS
 1-TYPE D SIGN (D-2)
 1-R10-12 SIGN
 EXTEND INTO HH 7:
 3" RSC
 2-12/C#12
 5-3/C#12
 1-3/C#20
 1-2/C#14

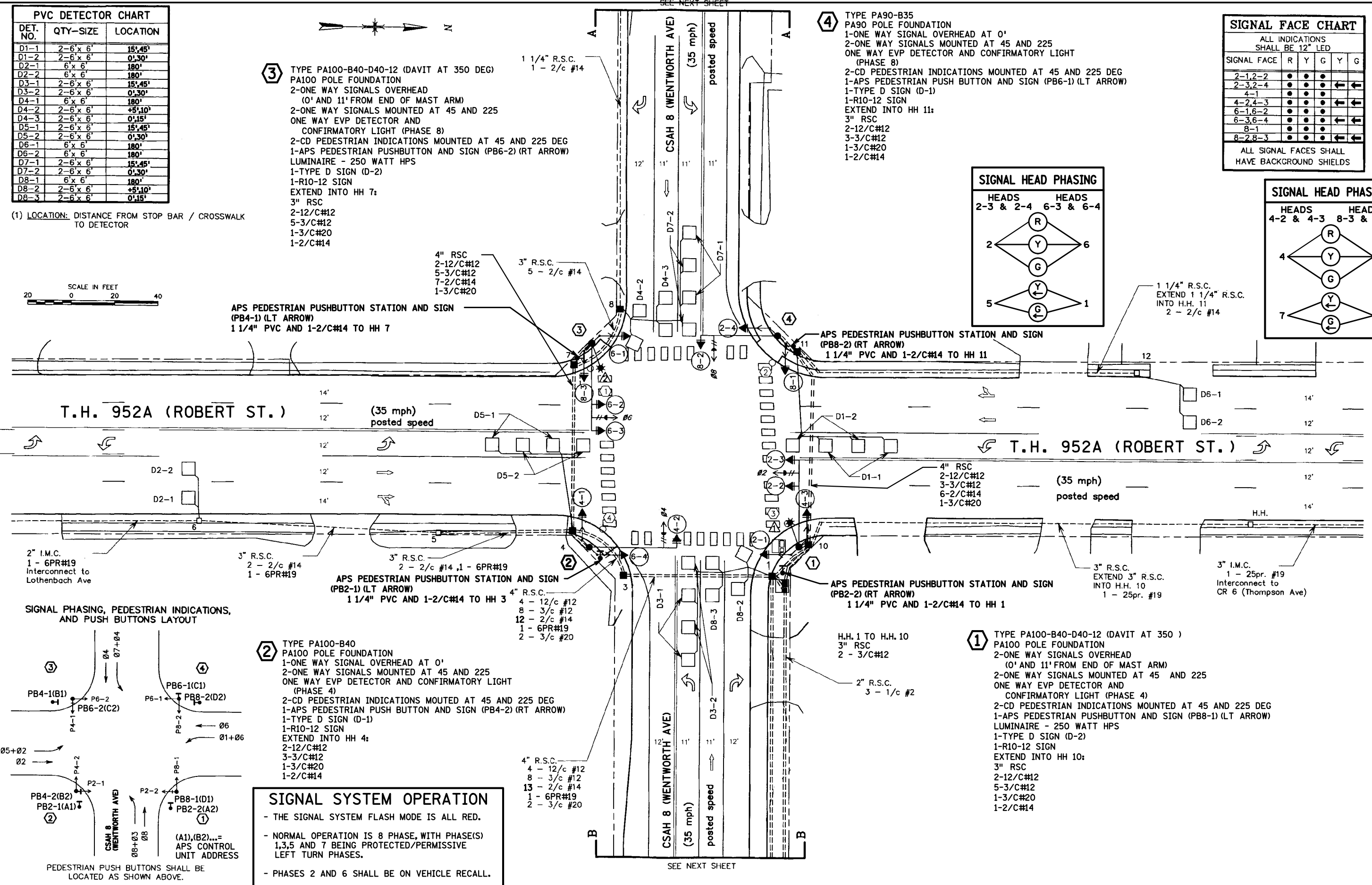
4 TYPE PA90-B35
 PA90 POLE FOUNDATION
 1-ONE WAY SIGNAL OVERHEAD AT 0'
 2-ONE WAY SIGNALS MOUNTED AT 45 AND 225
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 (PHASE 8)
 2-CD PEDESTRIAN INDICATIONS MOUNTED AT 45 AND 225 DEG
 1-APS PEDESTRIAN PUSH BUTTON AND SIGN (PB6-1) (LT ARROW)
 1-TYPE D SIGN (D-1)
 1-R10-12 SIGN
 EXTEND INTO HH 11:
 3" RSC
 2-12/C#12
 3-3/C#12
 1-3/C#20
 1-2/C#14

SIGNAL FACE CHART						
ALL INDICATIONS SHALL BE 12" LED						
SIGNAL FACE	R	Y	G	Y	G	
2-1,2-2	●	●	●	●	●	
2-3,2-4	●	●	●	●	●	←
4-1	●	●	●	●	●	
4-2,4-3	●	●	●	●	●	←
6-1,6-2	●	●	●	●	●	
6-3,6-4	●	●	●	●	●	←
8-1	●	●	●	●	●	
8-2,8-3	●	●	●	●	●	←

ALL SIGNAL FACES SHALL HAVE BACKGROUND SHIELDS



(1) LOCATION: DISTANCE FROM STOP BAR / CROSSWALK TO DETECTOR



2" I.M.C.
 1 - 6PR#19
 Interconnect to Lothenbach Ave

3" R.S.C.
 2 - 2/c #14
 1 - 6PR#19

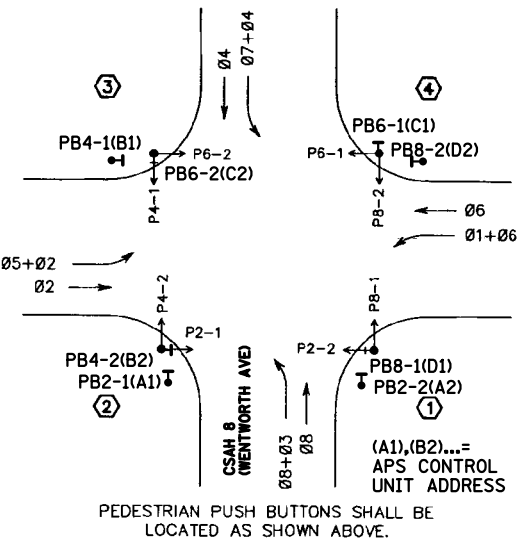
3" R.S.C.
 2 - 2/c #14, 1 - 6PR#19

4" R.S.C.
 4 - 12/c #12
 8 - 3/c #12
 12 - 2/c #14
 1 - 6PR#19
 2 - 3/c #20

3" R.S.C.
 EXTEND 3" R.S.C. INTO H.H. 10
 1 - 25pr. #19

3" I.M.C.
 1 - 25pr. #19
 Interconnect to CR 6 (Thompson Ave)

SIGNAL PHASING, PEDESTRIAN INDICATIONS, AND PUSH BUTTONS LAYOUT



2 TYPE PA100-B40
 PA100 POLE FOUNDATION
 1-ONE WAY SIGNAL OVERHEAD AT 0'
 2-ONE WAY SIGNALS MOUNTED AT 45 AND 225
 ONE WAY EVP DETECTOR AND CONFIRMATORY LIGHT
 (PHASE 4)
 2-CD PEDESTRIAN INDICATIONS MOUNTED AT 45 AND 225 DEG
 1-APS PEDESTRIAN PUSH BUTTON AND SIGN (PB4-2) (RT ARROW)
 1-TYPE D SIGN (D-1)
 1-R10-12 SIGN
 EXTEND INTO HH 4:
 2-12/C#12
 3-3/C#12
 1-3/C#20
 1-2/C#14

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

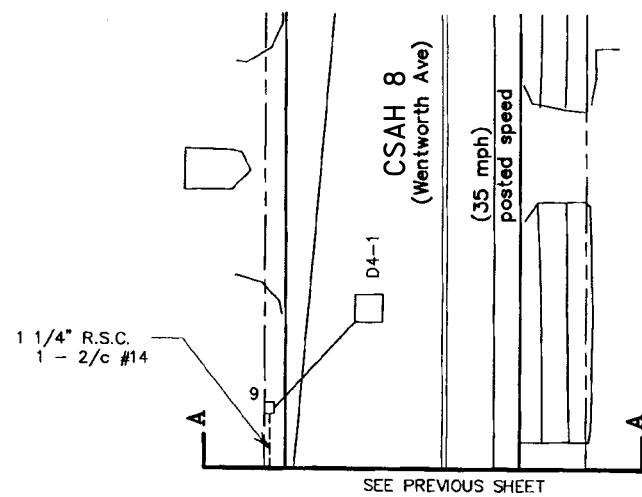
1 TYPE PA100-B40-D40-12 (DAVIT AT 350)
 PA100 POLE FOUNDATION
 2-ONE WAY SIGNALS OVERHEAD
 (0' AND 11' FROM END OF MAST ARM)
 2-ONE WAY SIGNALS MOUNTED AT 45 AND 225
 ONE WAY EVP DETECTOR AND
 CONFIRMATORY LIGHT (PHASE 4)
 2-CD PEDESTRIAN INDICATIONS MOUNTED AT 45 AND 225 DEG
 1-APS PEDESTRIAN PUSHBUTTON AND SIGN (PB8-1) (LT ARROW)
 LUMINAIRE - 250 WATT HPS
 1-TYPE D SIGN (D-2)
 1-R10-12 SIGN
 EXTEND INTO HH 10:
 3" RSC
 2-12/C#12
 5-3/C#12
 1-3/C#20
 1-2/C#14

SIGNAL SYSTEM OPERATION

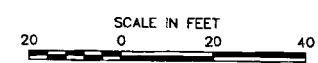
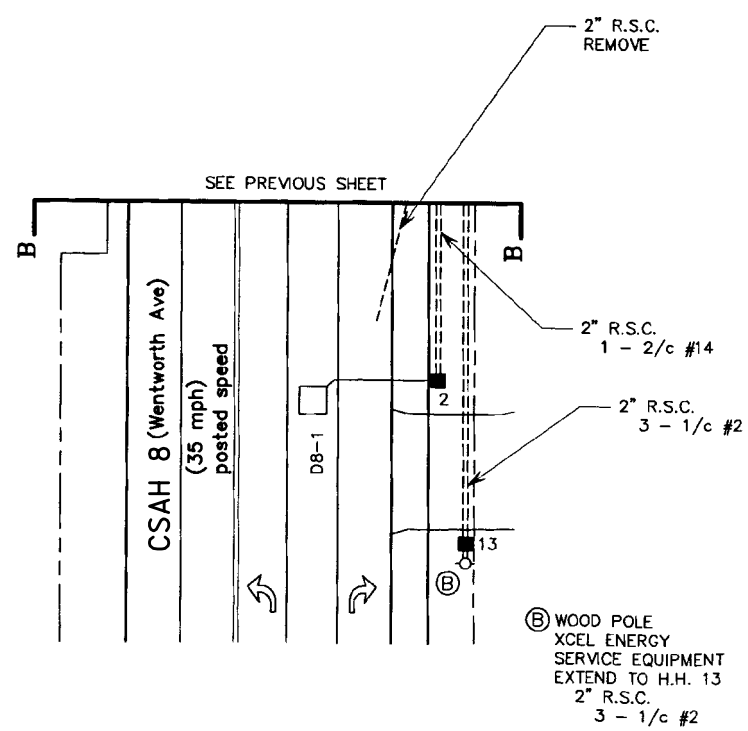
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASE(S) 1,3,5 AND 7 BEING PROTECTED/PERMISSIVE LEFT TURN PHASES.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

DISTRICT #: METRO
 IPLOT NAME: layout
 PATH & FILENAME: IP_PWP-d0785008V20764MLWR_sgl.dgn

BY	DATE	REVISIONS	SYSTEM ID: 20764	T.E.	INTERSECTION LAYOUT	DRAWN BY: MAS	CKD BY: MJF	DATE: 5-19-09
SJK	03-06-13	AS-BUILT PLAN SP 1908-81 (APS)	METER ADDRESS: 129 WENTWORTH AVE. E.		T.H. 952A AT CSAH 8 (WENTWORTH AVE). IN WEST ST. PAUL, DAKOTA COUNTY	CERTIFIED BY _____	LIC. NO. _____	DATE: _____
						STATE PROJ. NO.	(T.H.952A)	SHEET NO. 1 OF 3 SHEETS



- Ⓐ CONTROLLER AND CABINET
EXTEND INTO HH 1:
4" RSC
4-12/C#12
7-3/C#12
19-2/C#14
2-3/C#20
1-6 PR.#19
- EXTEND INTO HH 10:
4" RSC
4-12/C#12
7-3/C#12
7-2/C#14
2-3/C#20
1-25 PR.#19
- 3" RSC STUB OUT
PAD MOUNTED SERVICE EQUIPMENT
EXTEND INTO CONTROLLER CABINET:
2" RSC
2-1/C#6
1-1/C#6 INS. GR.
EXTEND INTO HH 1:
2" RSC
2-3/C#12 (LUM)
EXTEND INTO HH 13:
3-1/C#2



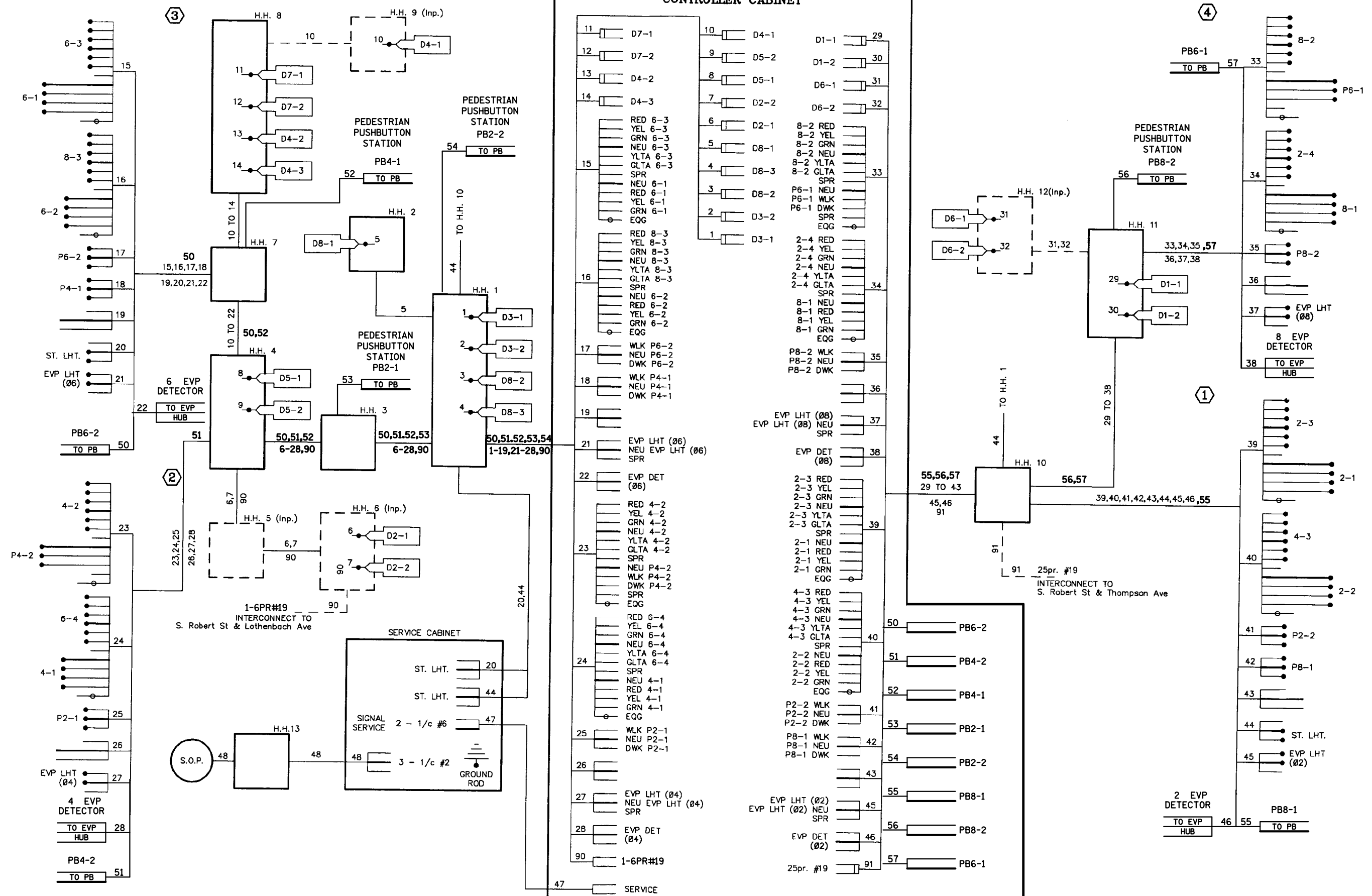
PLOTTED/REVISED: 3/4/2013

DISTRICT #: METRO
IPLOT NAME: match lines
PATH & FILENAME: IP_PWP-d0785008\T20764\MLWR_sgl.dgn

BY	DATE	REVISIONS	SYSTEM ID: 20764	T.E.	DRAWN BY: MAS		CKD BY: MJF	DATE: 5-19-09
SJK	03-06-13	AS-BUILT PLAN SP 1908-81 (APS)	METER ADDRESS: 129 WENTWORTH AVE. E.		CERTIFIED BY _____		LIC. NO. _____	DATE: _____
MATCHLINE LAYOUT T.H. 952A AT CSAH 8 (WENTWORTH AVE.) IN WEST ST. PAUL, DAKOTA COUNTY				STATE PROJ. NO.		(T.H.952A)	SHEET NO. 2	OF 3 SHEETS

PLOTTED/REVISED: 3/4/2013

DISTRICT #: METRO
PLOT NAME: wiring diagram
PATH & FILENAME: IP_PWP-00785008\T20764\MLWR_sgl.dgn



BY	DATE	REVISIONS
SJK	03-06-13	AS-BUILT PLAN SP 1908-81 (APS)

SYSTEM ID: 20764 T.E.
METER ADDRESS: 129 WENTWORTH AVE. E.

WIRING DIAGRAM
T.H. 952A AT CSAH 8 (WENTWORTH AVE).
IN WEST ST. PAUL, DAKOTA COUNTY

CERTIFIED BY _____ LIC. NO. _____ DATE: _____
STATE PROJ. NO. _____ (T.H. 952A) SHEET NO. 3 OF 3 SHEETS

DRAWN BY: MAS CKD BY: MJF DATE: 5-19-09