

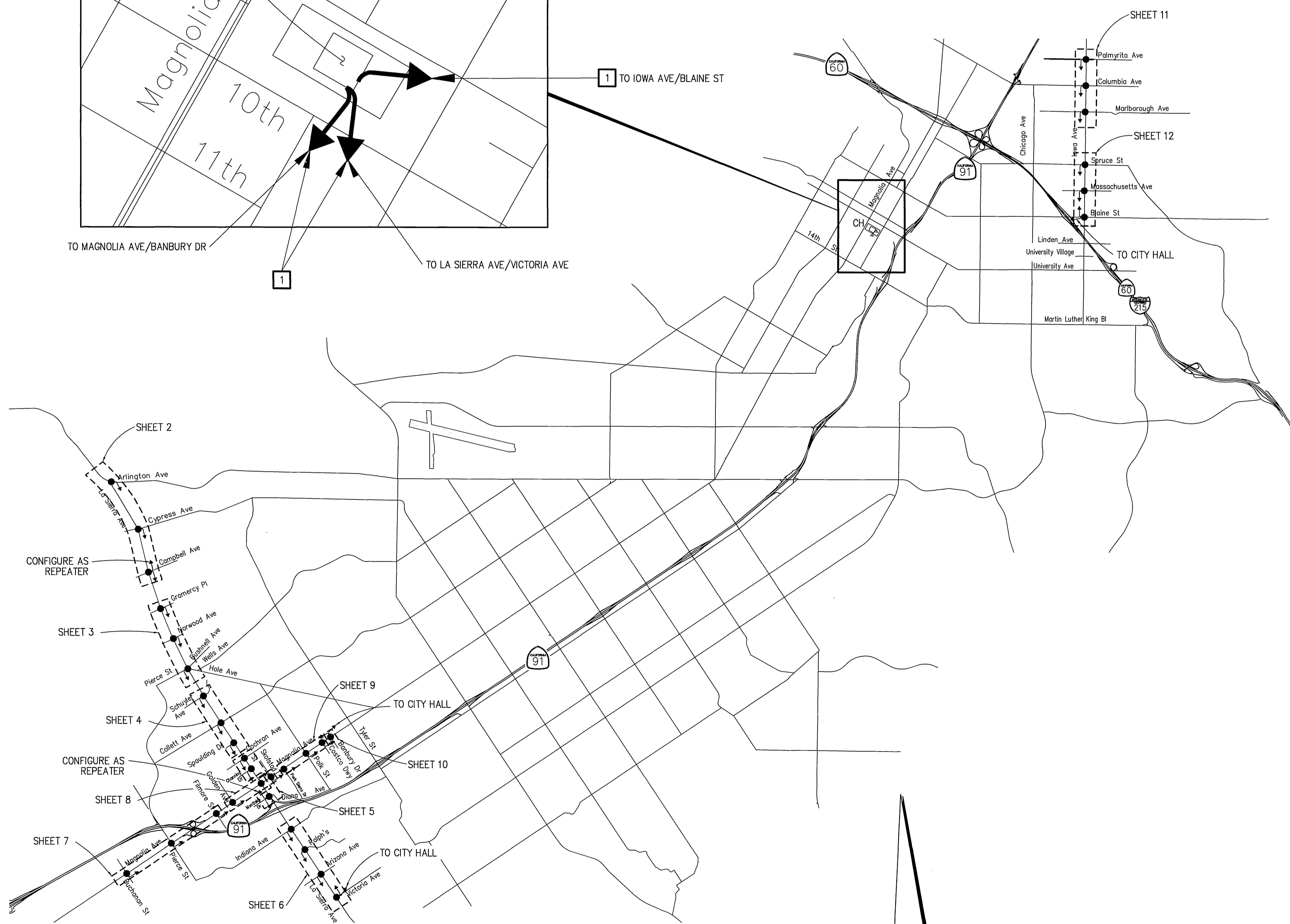
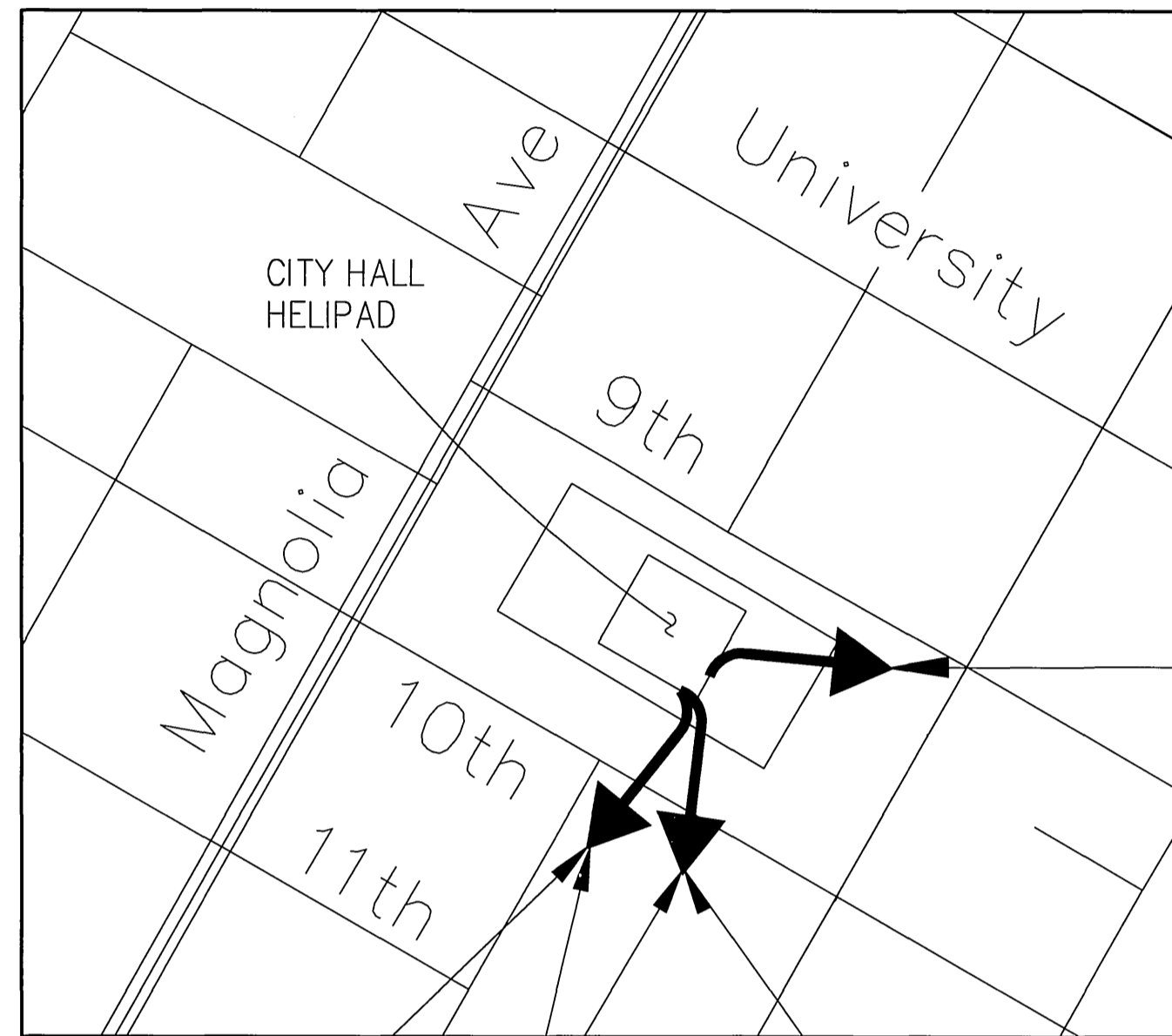
# RIVERSIDE



# CALIFORNIA

## PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

### CONTRACT TE-06-01 TRAFFIC SIGNAL INTERCONNECT PLANS



#### INDEX OF SHEETS

DRAWING NO.	LOCATION	SHEETS
	<b>TITLE SHEET</b>	<b>1</b>
X-058	LA SIERRA AVENUE (Arlington Avenue to Victoria Avenue)	2 - 6
X-059	MAGNOLIA AVENUE (Buchanan Street to Banbury Drive)	7 - 10
X-060	IOWA AVENUE (Palmyrita Avenue to Blaine Street)	11 - 12

#### LEGEND:

- INDICATES PROJECT SITES

#### CONSTRUCTION NOTES (THIS SHEET):

- 1- CONTRACTOR SHALL FURNISH (2)-DUAL EP-COMMPAKBB4.9 RADIO, (3)-PANEL ANTENNAS, MOUNTING HARDWARE, (1)-ETHERNET FIBER SWITCH AND (1)- WALL MOUNT FIBER BREAKOUT BOX AND 250' OF BELDON M9A045 6 STRAND SINGLE MODE FIBER OPTIC CABLE, ALL TO BE INSTALLED BY CITY. EXACT PLACEMENT OF ANTENNAS SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD.

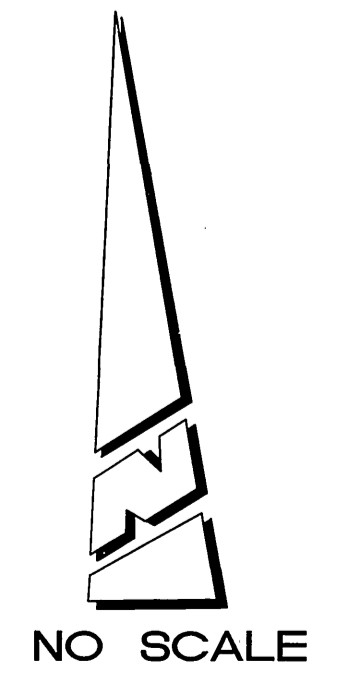


TRAFFIC No. 1575  
DATE: 3-2-07  
AGA Job No. : 134-014  
AGA File Name : Title Sheet WiFi  
Print Date : 3/2/07  
Last Revision : 2/26/07

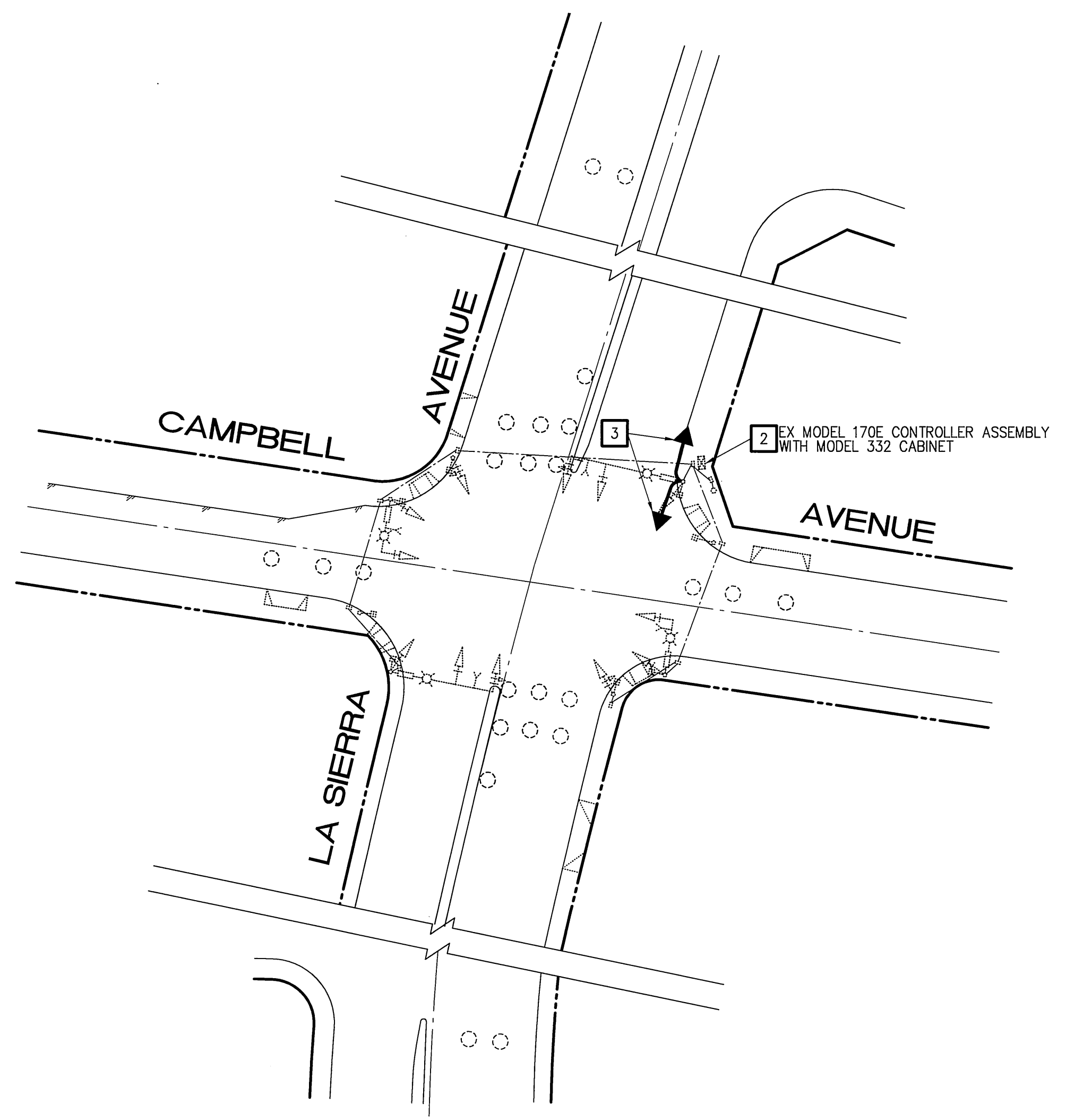
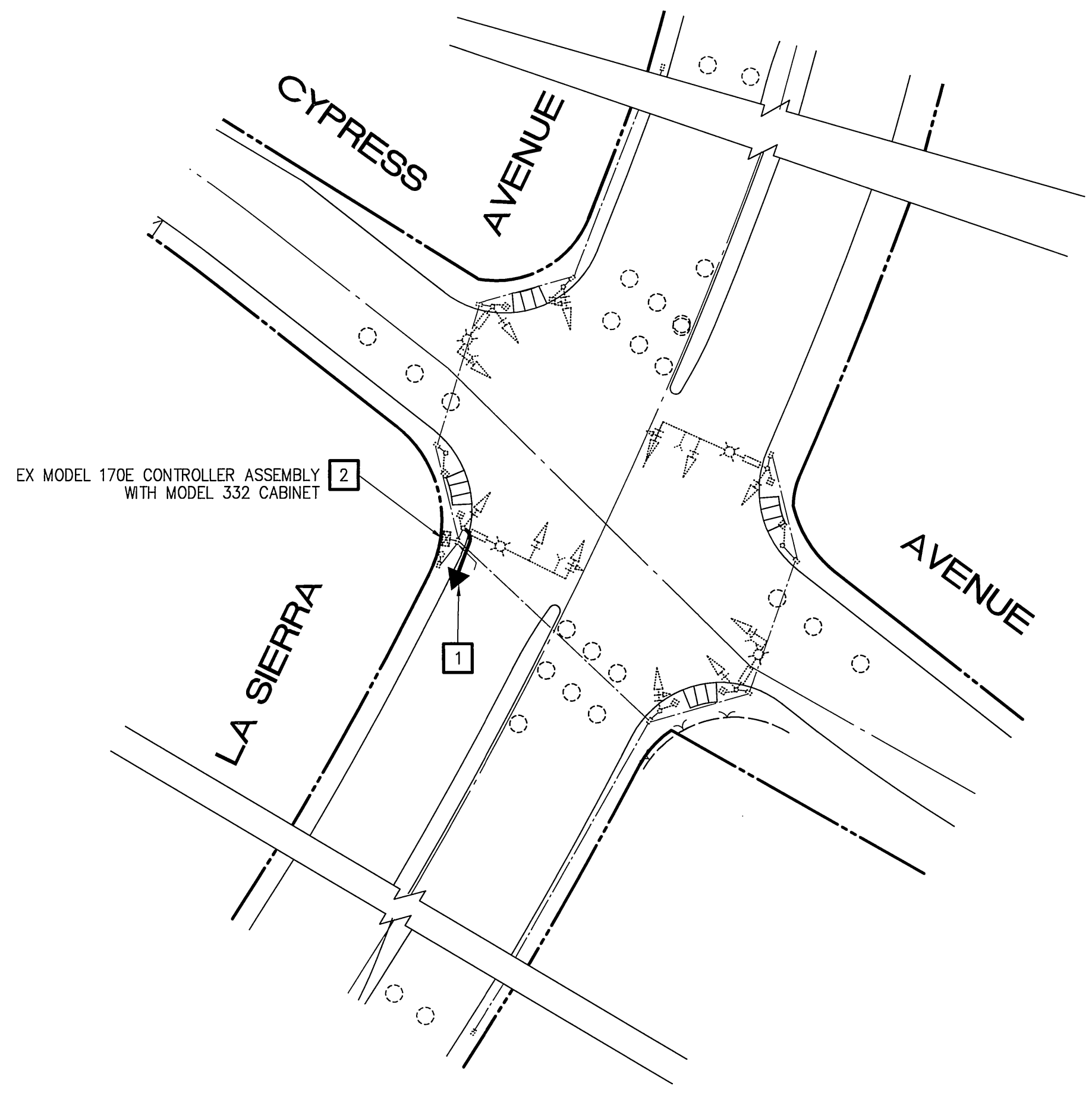
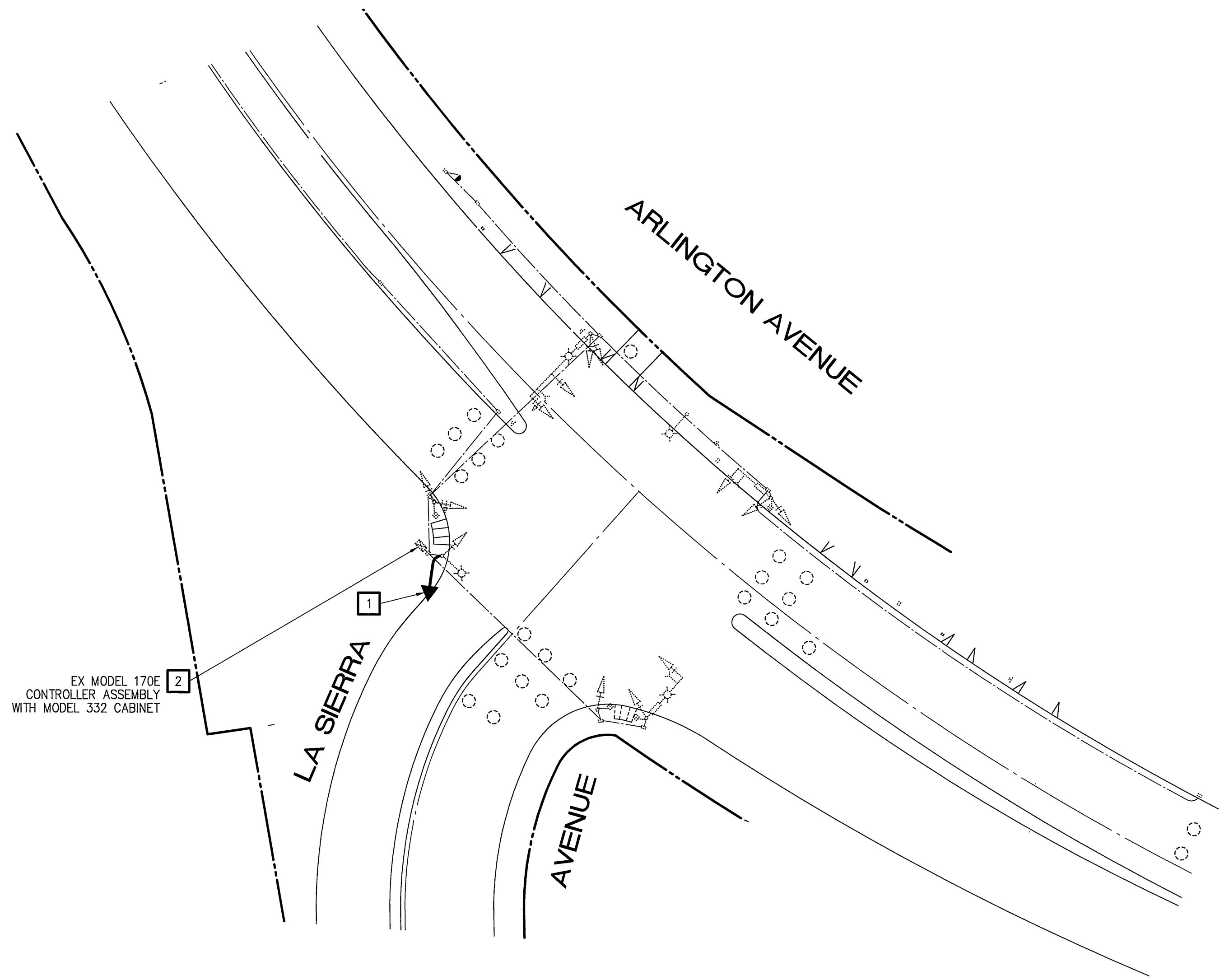
**ALBERT CROVER & ASSOCIATES**  
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(714) 992-2990  
FAX 992-2883

CONTRACT TE-06-01

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227-2600  
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CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS				TRAFFIC SIGNAL INTERCONNECT PLANS		ACCOUNT NO.
APPROVED BY	DATE	BY	APPROVED BY	TITLE SHEET		X-058
PRINCIPAL ENGINEER	3-7-07	RA	[Signature]	SHEET 1 OF 12		
TRAFFIC DIVISION	3-2-07	J.H.	CITY ENGINEER	HORIZ. SCALE: 1"= 40'		VERT. SCALE: N/A
MARK	REVISIONS	APPR. DATE	DATE			
DESIGNED BY: RPH	DRAWN BY: RPH	CHECKED BY: JAT	DATE: 5/1/07			



SCALE: 1"=40'

**CONSTRUCTION NOTES (THIS SHEET):**

- 1- INSTALL PANEL ANTENNA WITH ENCOM 2.4 GHz EP-COMPAKBB2.4-INT RADIO ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNA SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.
- 2- INSTALL MCCAIN SERIAL TERMINAL SERVER AND RADIO POWER SUPPLY WITH LIGHTNING AND SURGE PROTECTION.
- 3- INSTALL DUAL EP-COMPAKBB2.4 RADIO WITH (2)-23 DBI 2.4GHz PANEL ANTENNAS ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNAS SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.



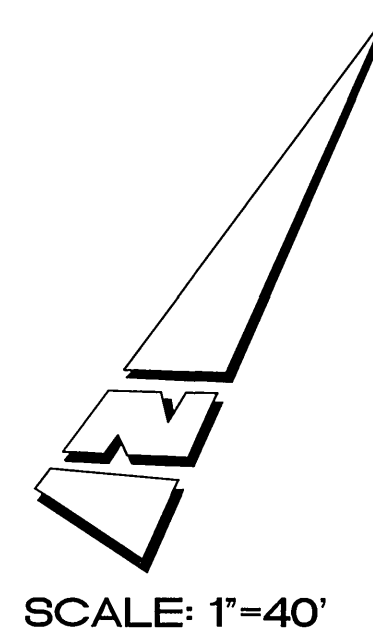
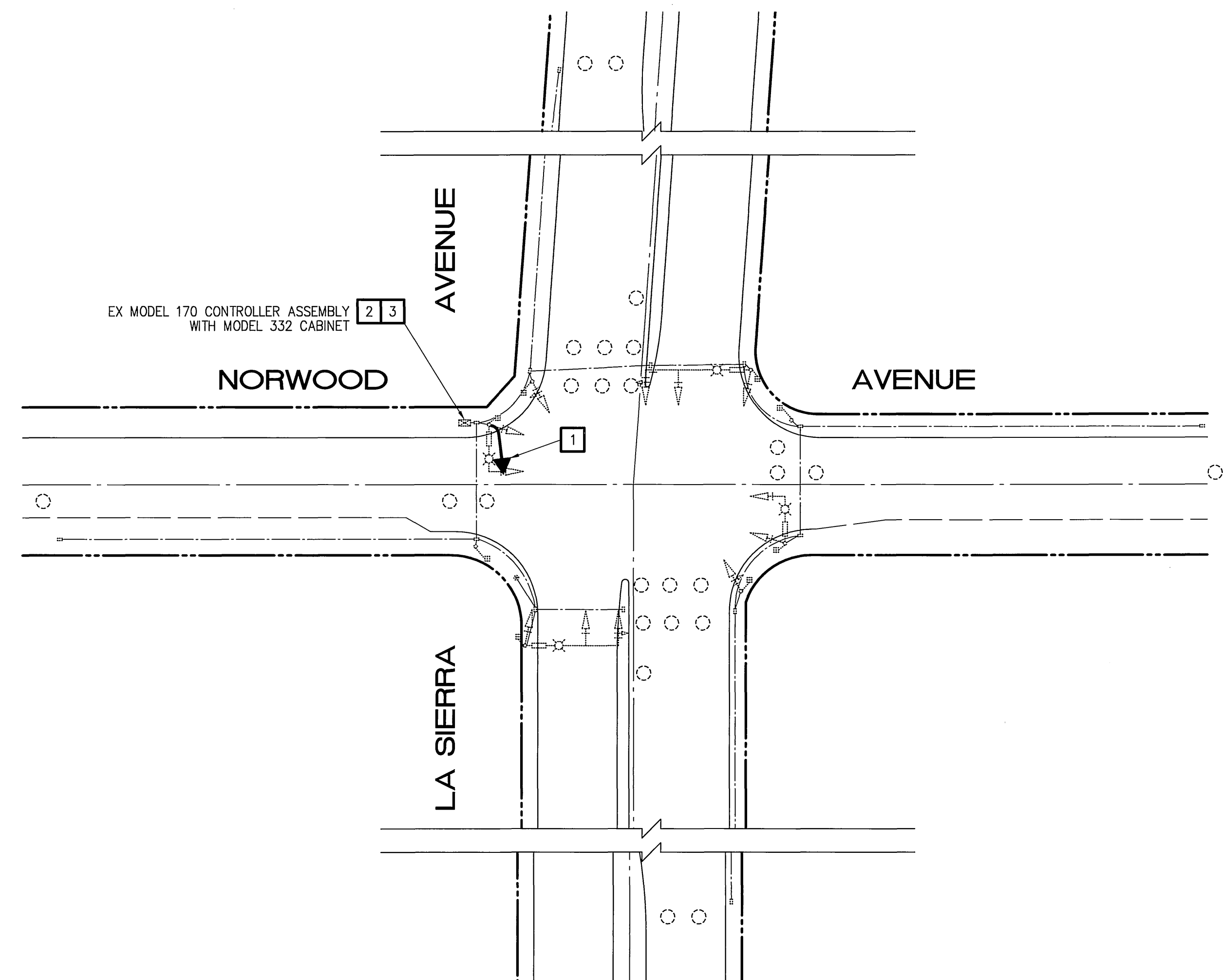
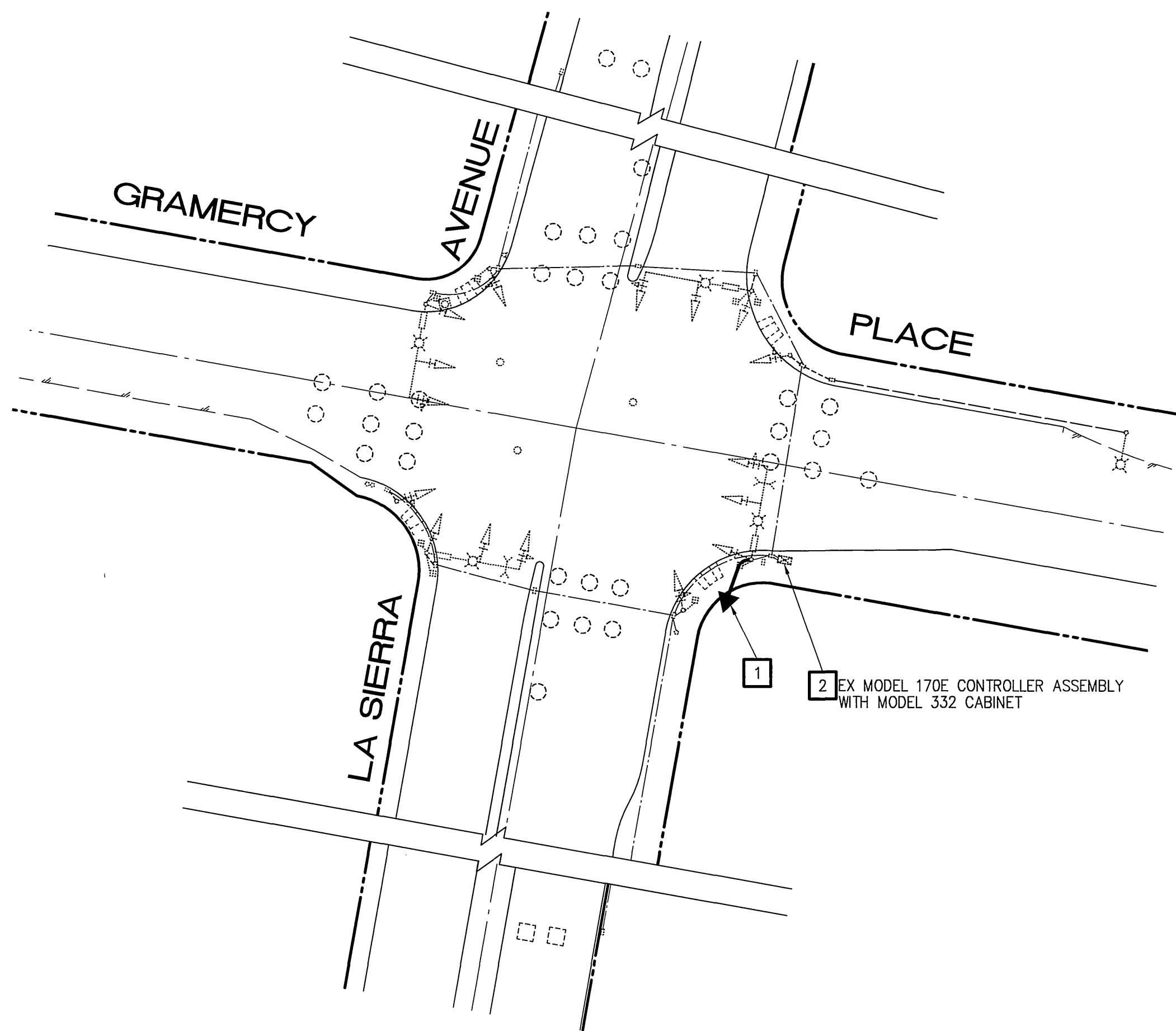
TRAFFIC No. 1575  
 DATE: 3-2-07  
 AGA Job No. : 134-014  
 AGA File Name: La Sierra WiFi  
 Print Date : 3/2/07  
 Last Revision : 2/26/07

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**CONTRACT TE-06-01**

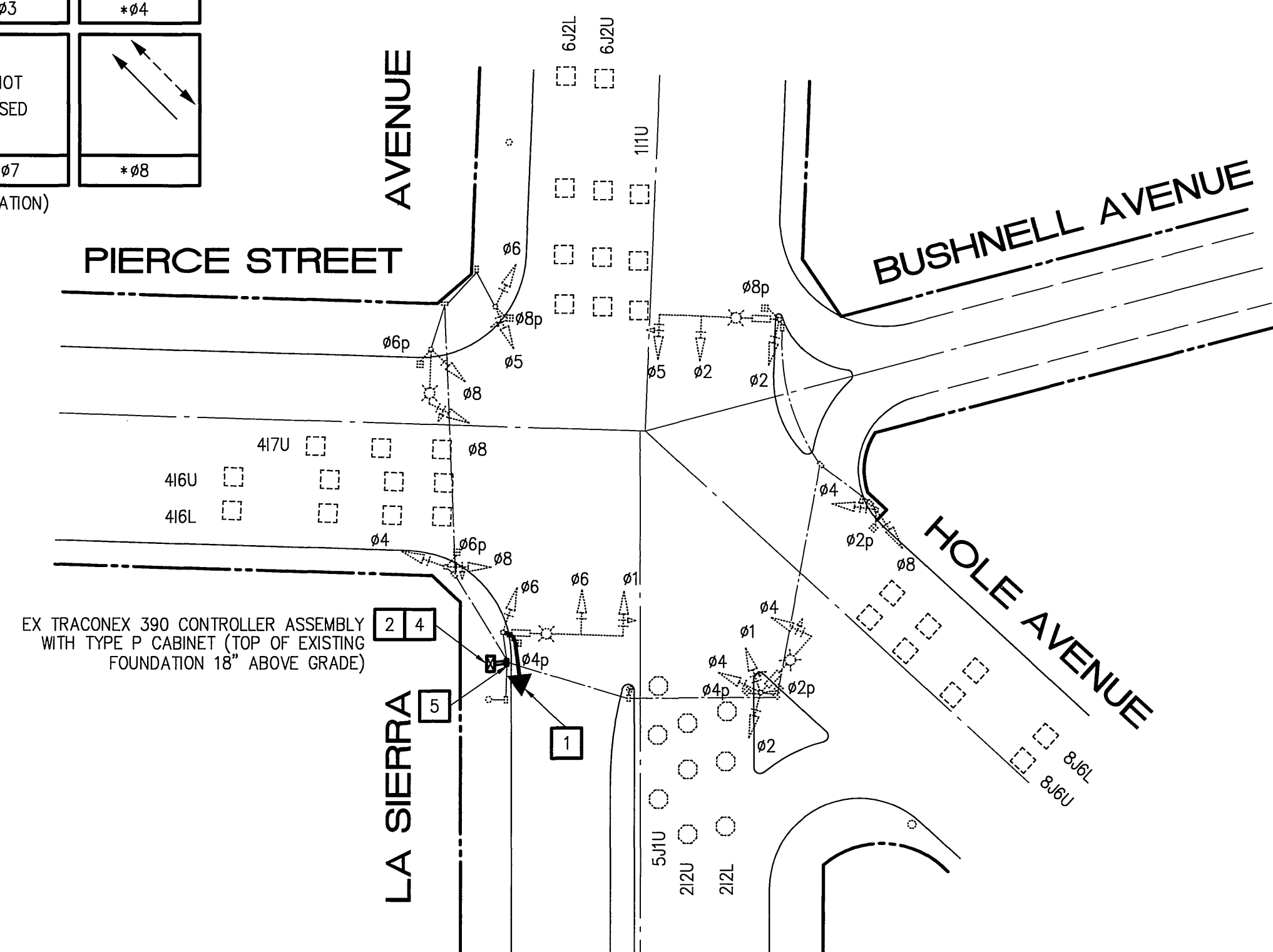
Underground Service Alert  
 Call TOLL FREE  
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 227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS				TRAFFIC SIGNAL INTERCONNECT PLAN		ACCOUNT NO.
APPROVED BY: DATE: BY: APPROVED BY:				LA SIERRA AVENUE		X-058
PRINCIPAL ENGINEER: 3/7/07 [Signature]				ARLINGTON AVENUE TO		
TRAFFIC DIVISION: 3-2-07 [Signature]				VICTORIA AVENUE		SHEET 2 OF 12
ENGINEERING MANAGER: 5/7/07 [Signature]				CITY ENGINEER		
DESIGNED BY: RPH DRAWN BY: RPH CHECKED BY: JAT				DATE: 5/14/07		HORIZ. SCALE: 1"= 40' VERT. SCALE: N/A



PHASE		DIAGRAM	
		NOT USED	
Ø1	Ø2	Ø3	*Ø4
		NOT USED	
Ø5	Ø6	Ø7	*Ø8

\* EXCLUSIVE PHASE (SPLIT PHASE OPERATION)



**CONSTRUCTION NOTES (THIS SHEET):**

- 1 - INSTALL PANEL ANTENNA WITH ENCOM 2.4 GHz EP-COMMPAKBB2.4-INT RADIO ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNA SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.
- 2 - INSTALL MCCAIN SERIAL TERMINAL SERVER AND RADIO POWER SUPPLY WITH LIGHTNING AND SURGE PROTECTION.
- 3 - REMOVE AND SALVAGE EXISTING MODEL 170 CONTROLLER UNIT. INSTALL NEW MODEL 170E CONTROLLER UNIT WITH BI TRAN 233 PROGRAM AND 3M OPTICOM PHASE SELECTOR MODULES (2 CHANNEL UNITS ONLY) IN EXISTING CONTROLLER CABINET.
- 4 - REMOVE AND SALVAGE EXISTING CONTROLLER ASSEMBLY. REMOVE FOUNDATION. INSTALL NEW MODEL 170E CONTROLLER ASSEMBLY WITH MODEL 332 CABINET, BI TRAN 233 PROGRAM, AND 3M OPTICOM PHASE SELECTOR MODULES (2 CHANNEL UNITS ONLY) ON NEW FOUNDATION. REMOVE EXISTING CONDUITS INTO CONTROLLER CABINET AND INSTALL TWO (2) NEW 3.5" CONDUITS.
- 5 - REMOVE EXISTING PULL BOX AND REPLACE WITH NEW NO. 6E PULL BOX. (SEE SPECIAL PROVISIONS)



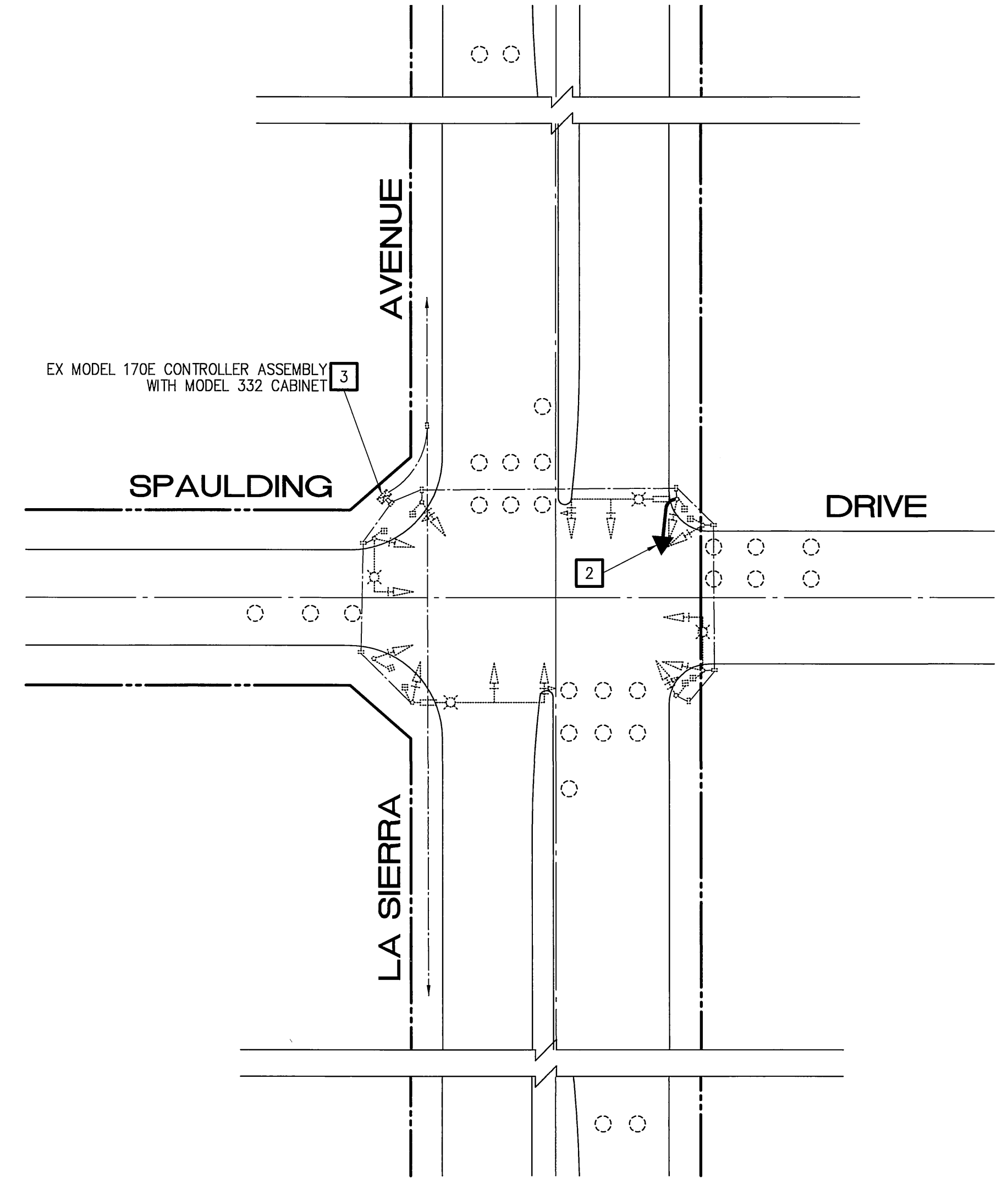
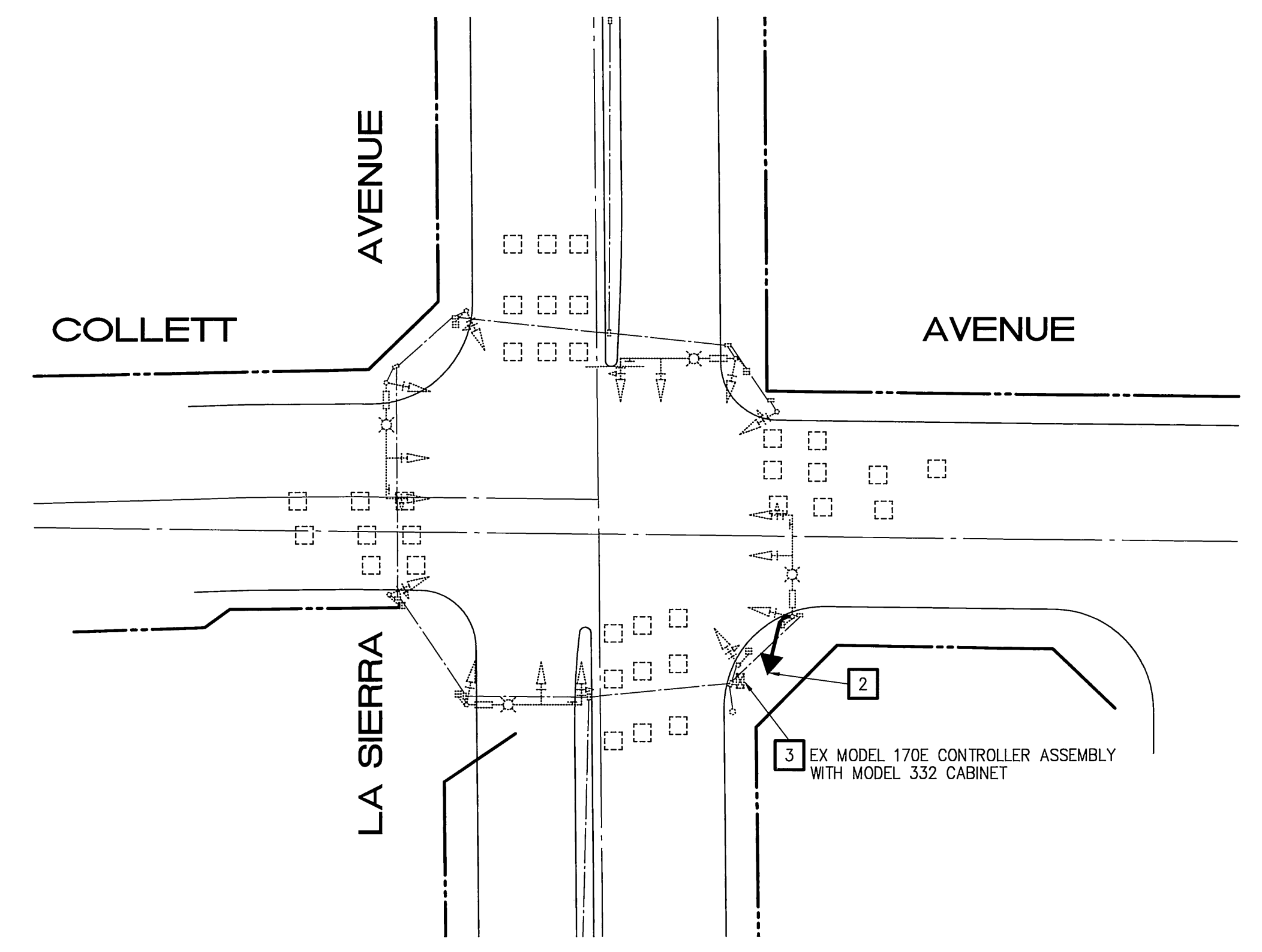
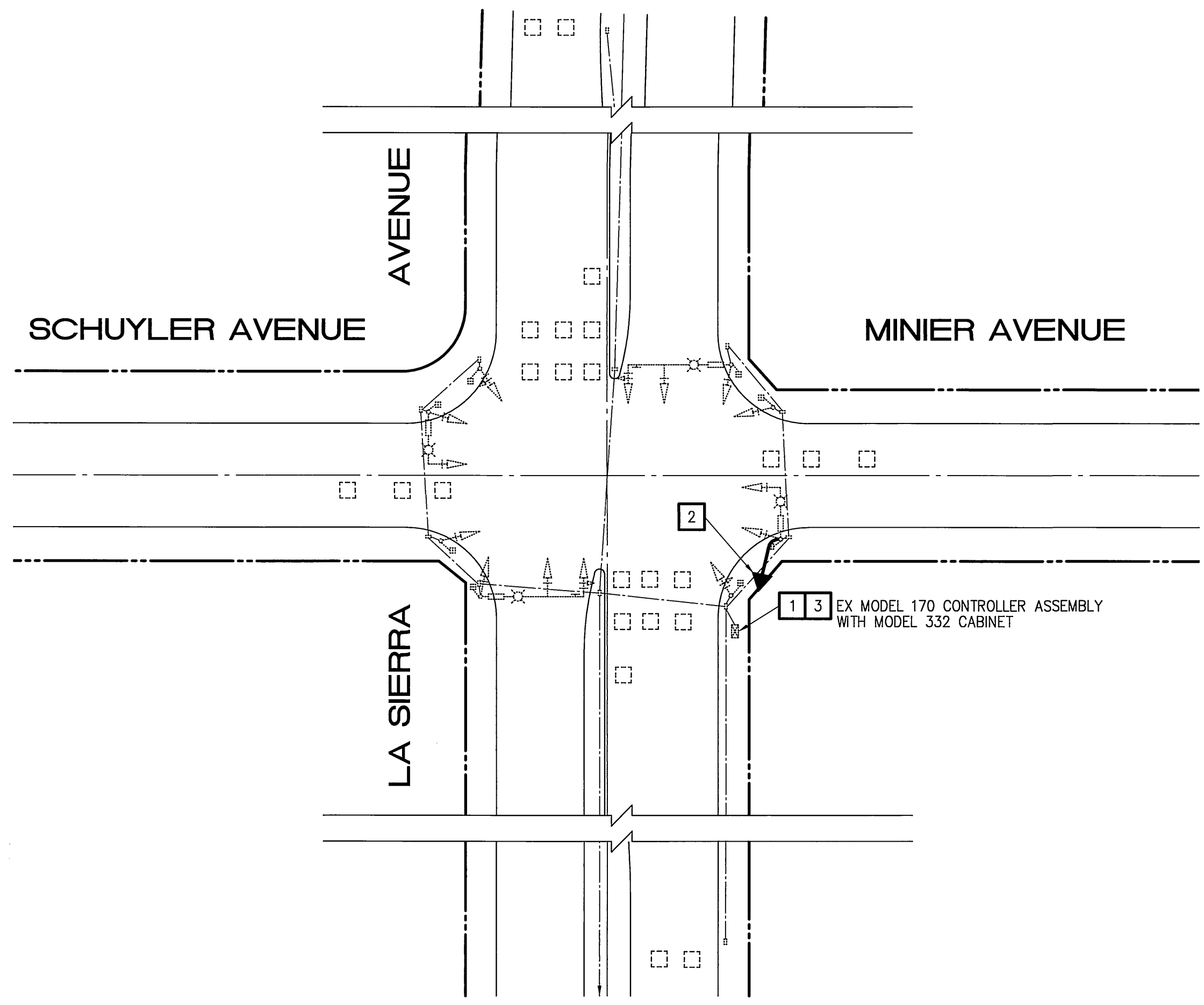
TRAFFIC No. 1575  
DATE: 3-2-07  
AGA Job No. : 134-014  
AGA File Name: La Sierra WiFi  
Print Date : 3/2/07  
Last Revision : 2/26/07

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**CONTRACT TE-06-01**

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS				TRAFFIC SIGNAL INTERCONNECT PLAN		ACCOUNT NO.
APPROVED BY: [Signature] DATE: 3-2-07 BY: [Signature]				LA SIERRA AVENUE ARLINGTON AVENUE TO VICTORIA AVENUE		X-058
PRINCIPAL ENGINEER: [Signature] DATE: 3-2-07				CITY ENGINEER: [Signature]		SHEET 3 OF 12
MARK REVISIONS APPR. DATE				HORIZ. SCALE: 1"= 40' VERT. SCALE: N/A		
DESIGNED BY: RPH DRAWN BY: RPH CHECKED BY: JAT						

Underground Service Alert  
Call TOLL FREE  
1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG



SCALE: 1"=40'

**CONSTRUCTION NOTES (THIS SHEET):**

- 1- REMOVE AND SALVAGE EXISTING MODEL 170 CONTROLLER UNIT. INSTALL NEW MODEL 170E CONTROLLER UNIT WITH BI TRAN 233 PROGRAM AND 3M OPTICOM PHASE SELECTOR MODULES (2 CHANNEL UNITS ONLY) IN EXISTING CONTROLLER CABINET.
- 2- INSTALL PANEL ANTENNA WITH ENCOM 2.4 GHz EP-COMPAKBB2.4-INT RADIO ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNA SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.
- 3- INSTALL MCCAIN SERIAL TERMINAL SERVER AND RADIO POWER SUPPLY WITH LIGHTNING AND SURGE PROTECTION.



TRAFFIC No. 1575  
 DATE: 3-2-07  
 AGA Job No. : 134-014  
 AGA File Name: La Sierra WiFi  
 Print Date : 3/2/07  
 Last Revision : 2/26/07

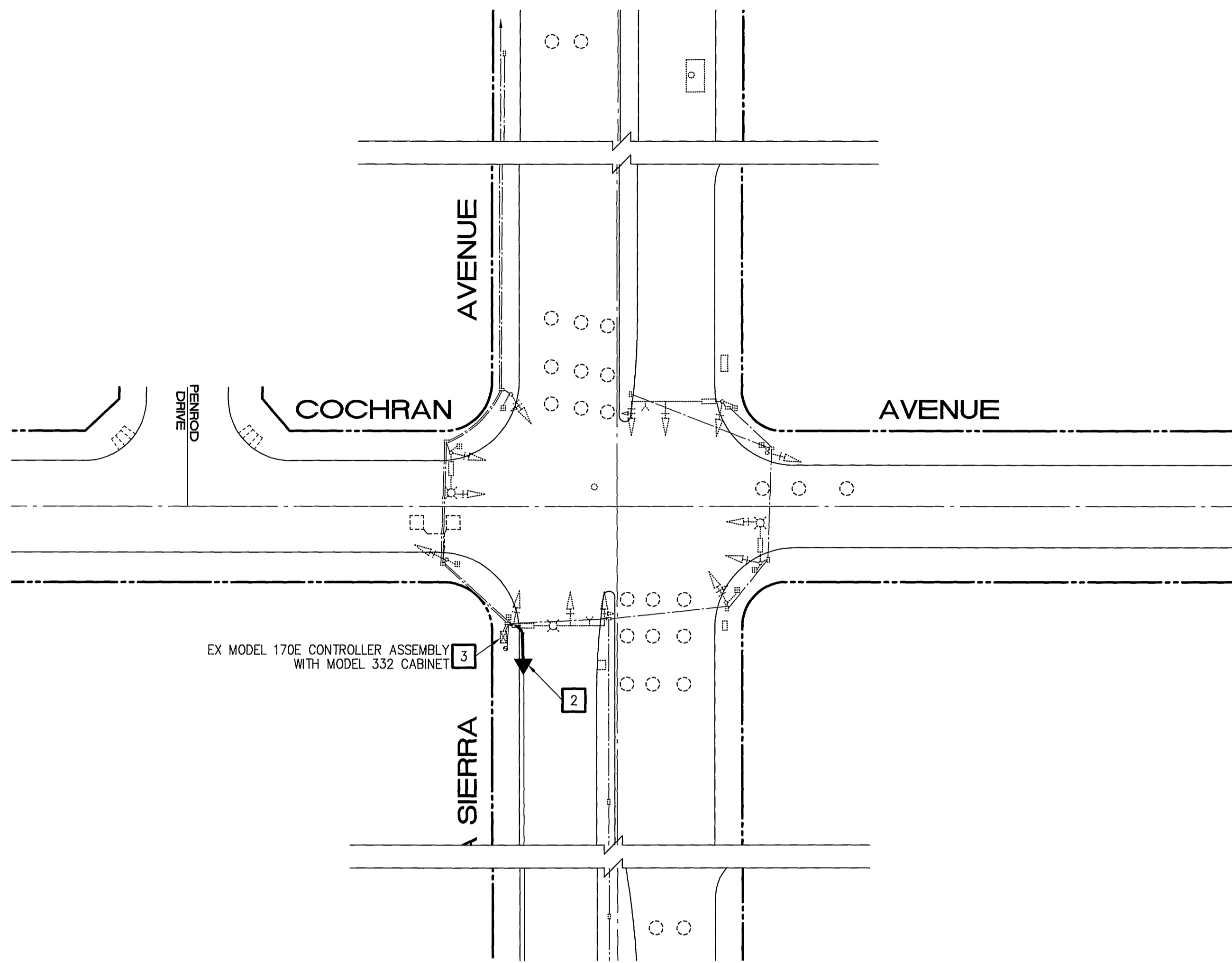
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**CONTRACT TE-06-01**

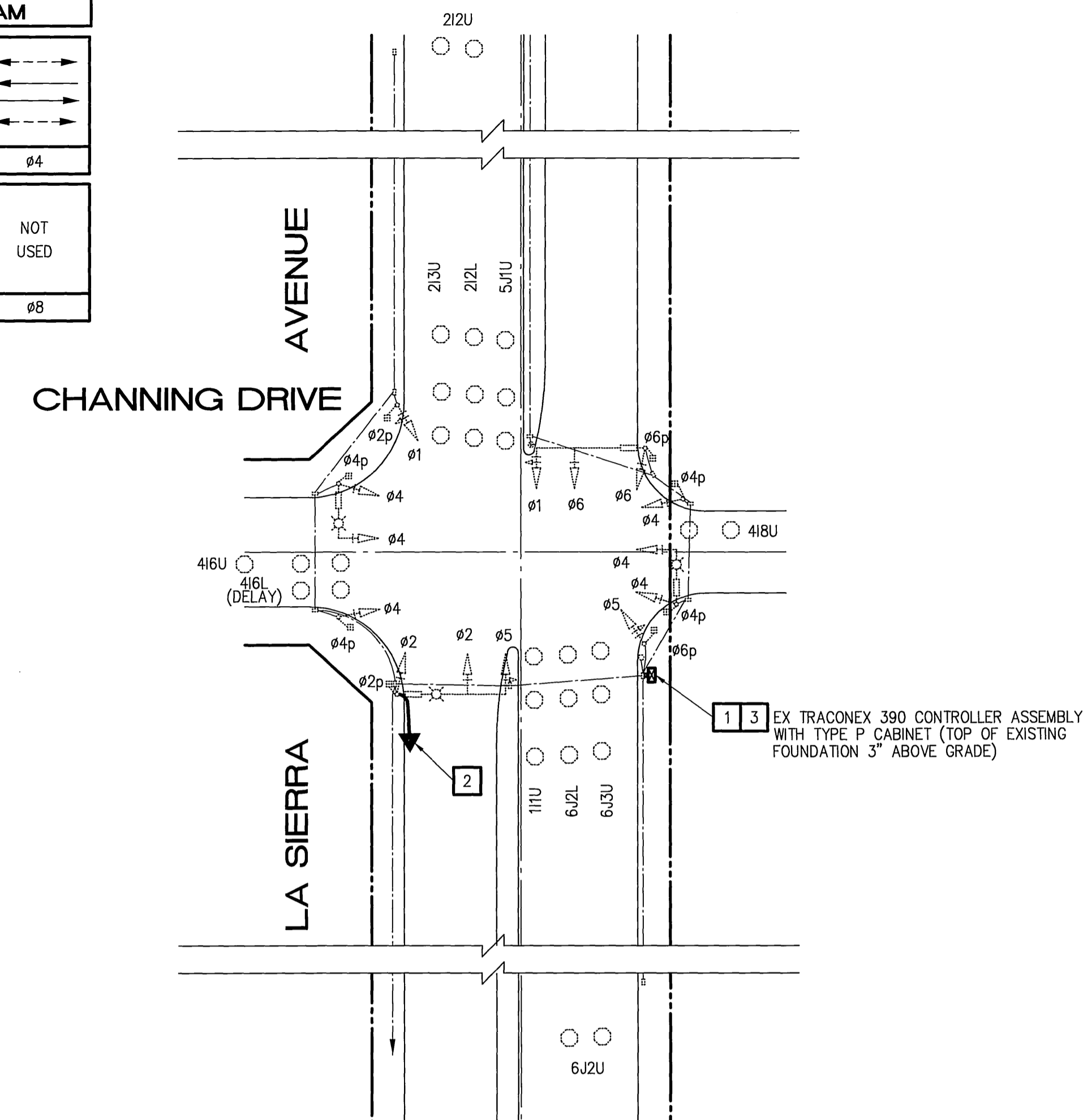
CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS				TRAFFIC SIGNAL INTERCONNECT PLAN		ACCOUNT NO.
APPROVED BY: [Signature] DATE: 3-2-07 BY: [Signature]				APPROVED BY: [Signature]		X-058
PRINCIPAL ENGINEER: [Signature] DATE: 3-2-07				CITY ENGINEER		
TRAFFIC DIVISION: [Signature] DATE: 3-2-07				DATE: 3/4/07		SHEET 4 OF 12
DESIGNED BY: RPH DRAWN BY: RPH CHECKED BY: JAT				HORIZ. SCALE: 1" = 40' VERT. SCALE: N/A		

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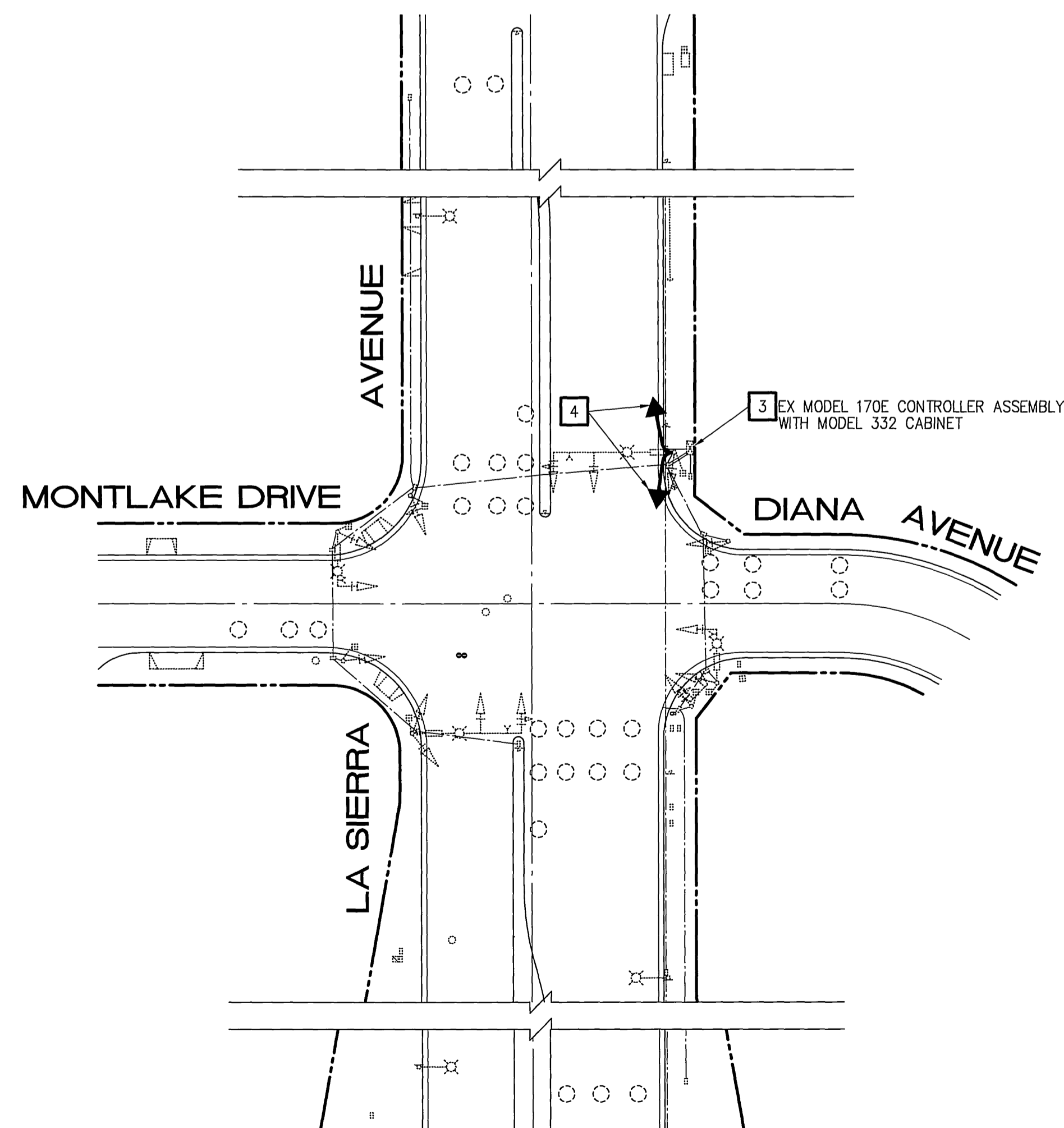




PHASE		DIAGRAM	
		NOT USED	
ø1	ø2	ø3	ø4
		NOT USED	NOT USED
ø5	ø6	ø7	ø8



SCALE: 1"=40'



**CONSTRUCTION NOTES (THIS SHEET):**

- 1 REMOVE AND SALVAGE EXISTING CONTROLLER ASSEMBLY. REMOVE FOUNDATION. INSTALL NEW MODEL 170E CONTROLLER ASSEMBLY WITH MODEL 332 CABINET, BI TRAN 233 PROGRAM, AND 3M OPTICOM PHASE SELECTOR MODULES (2 CHANNEL UNITS ONLY) ON NEW FOUNDATION. REMOVE EXISTING CONDUITS INTO CONTROLLER CABINET AND INSTALL TWO (2) NEW 3.5" CONDUITS.
- 2 INSTALL PANEL ANTENNA WITH ENCOM 2.4 GHz EP-COMMPAKB2.4-INT RADIO ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNA SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.
- 3 INSTALL MCCAIN SERIAL TERMINAL SERVER AND RADIO POWER SUPPLY WITH LIGHTNING AND SURGE PROTECTION.
- 4 INSTALL DUAL EP-COMMPAKB2.4 RADIO WITH (2)-23 DBI 2.4GHz PANEL ANTENNAS ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNAS SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.



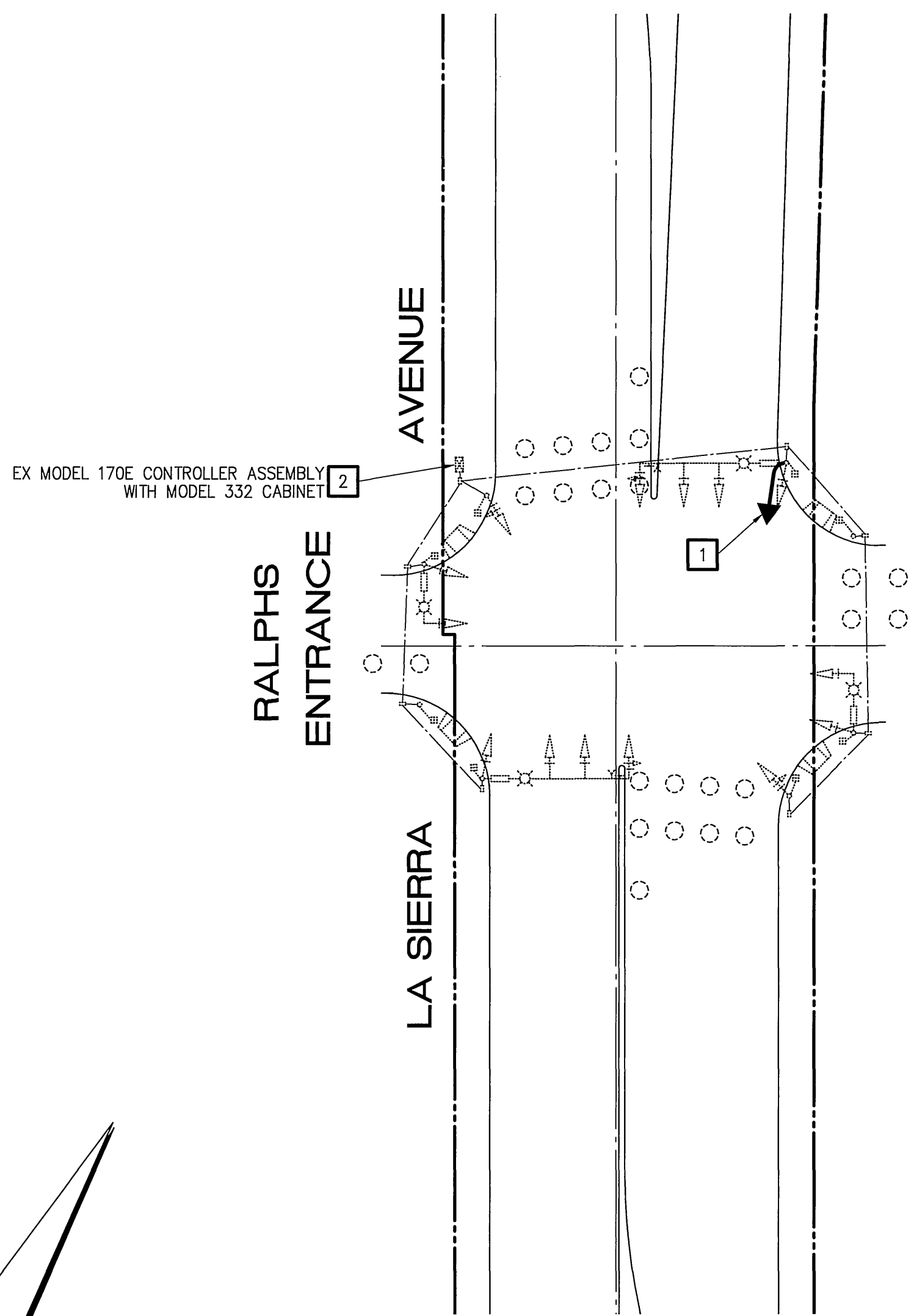
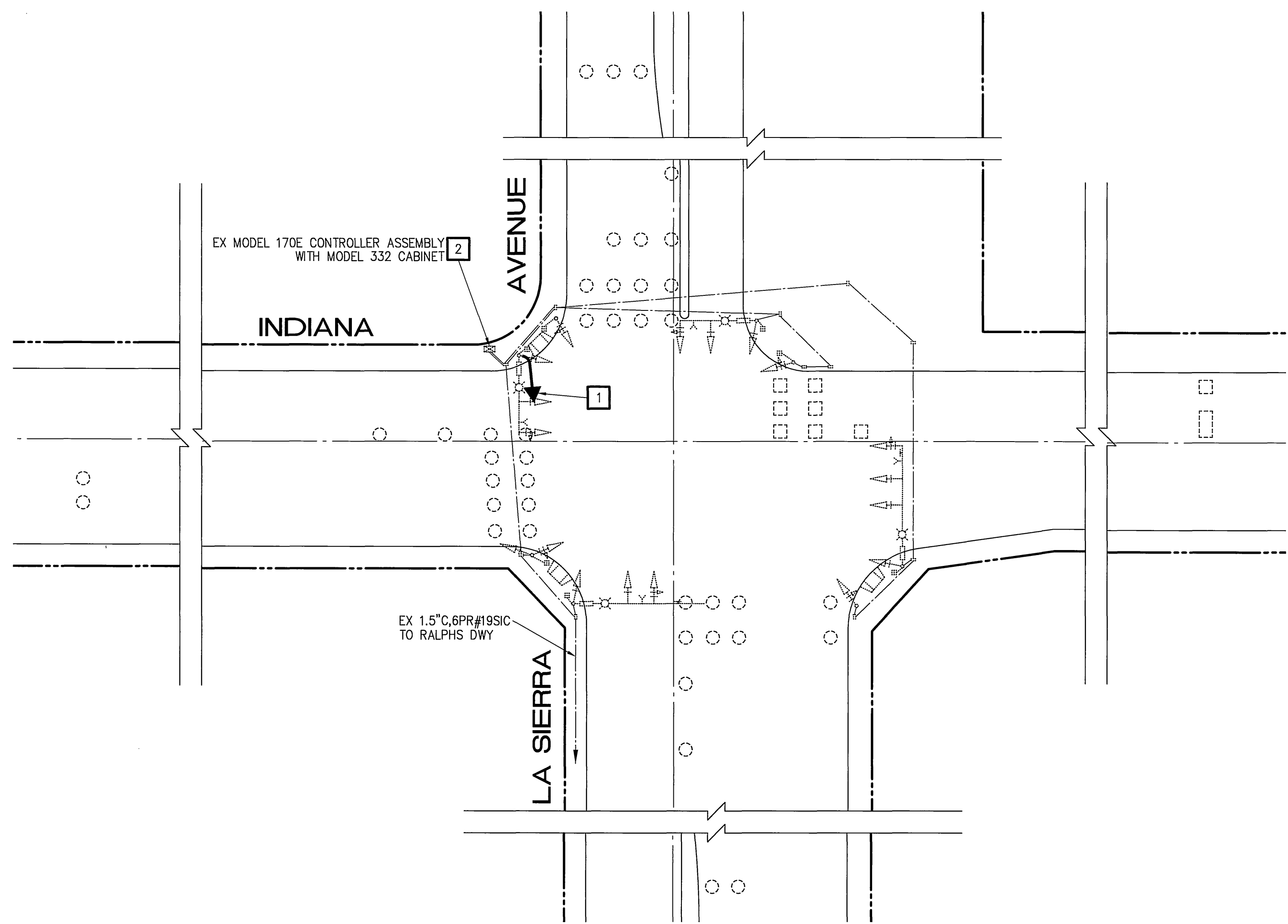
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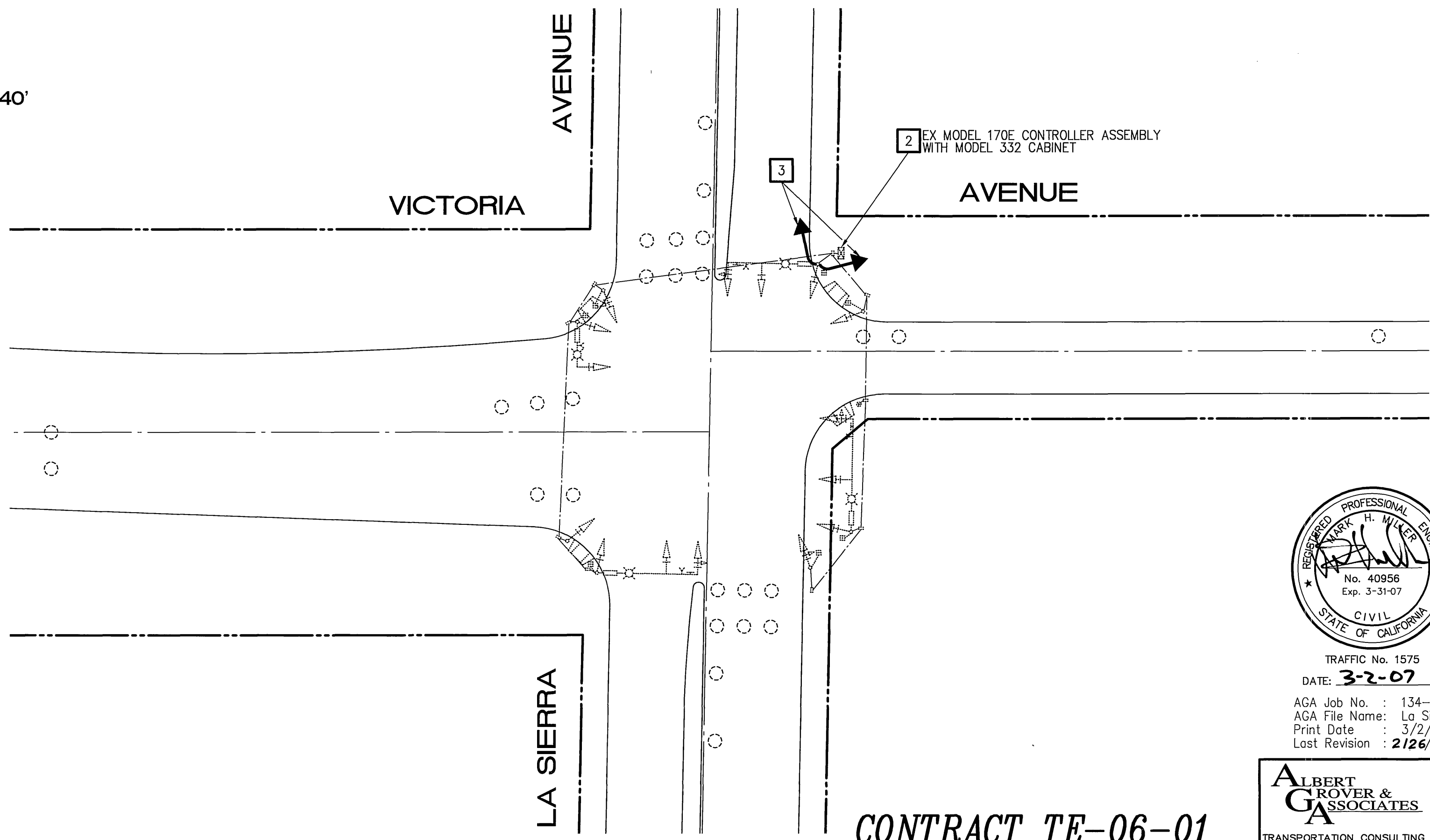
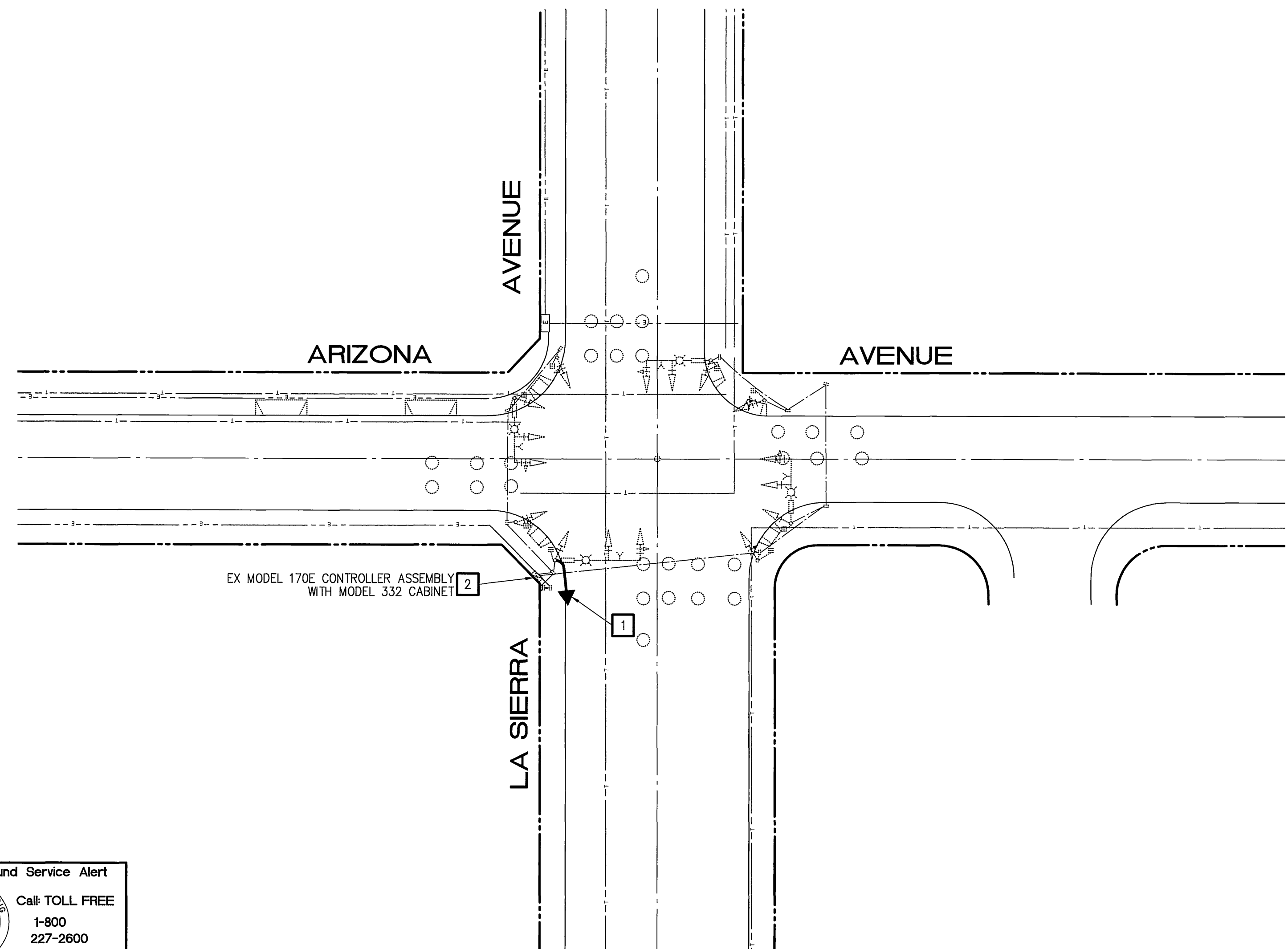
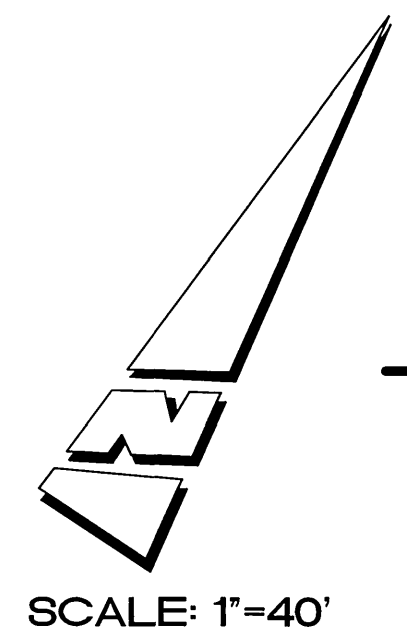
CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		TRAFFIC SIGNAL INTERCONNECT PLAN		ACCOUNT NO.
APPROVED BY: [Signature] DATE: 3-7-07		APPROVED BY: [Signature] DATE: 3-7-07		X-058
PRINCIPAL ENGINEER: [Signature] DATE: 3-2-07		CITY ENGINEER: [Signature] DATE: 5/14/09		
MARK REVISIONS APPR. DATE		DESIGNED BY: RPH DRAWN BY: RPH CHECKED BY: JAT		SHEET 5 OF 12
		HORIZ. SCALE: 1"= 40' VERT. SCALE: N/A		

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 1-800  
 227-2600  
 TWO WORKING DAYS BEFORE YOU DIG



**CONSTRUCTION NOTES (THIS SHEET):**

- 1 INSTALL PANEL ANTENNA WITH ENCOM 2.4 GHz EP-COMMPAKBB2.4-INT RADIO ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNA SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.
- 2 INSTALL MCCAIN SERIAL TERMINAL SERVER AND RADIO POWER SUPPLY WITH LIGHTNING AND SURGE PROTECTION.
- 3 INSTALL DUAL EP-COMMPAKBB2.4/4.9 RADIO WITH (2)-23 DBI 2.4GHz PANEL ANTENNAS ON SIGNAL POLE. EXACT PLACEMENT OF ANTENNAS SHALL BE DETERMINED BY THE RADIO MANUFACTURER'S REPRESENTATIVE IN THE FIELD. RUN CAT-5E CABLE IN EXISTING CONDUIT TO CONTROLLER CABINET.



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CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		TRAFFIC SIGNAL INTERCONNECT PLAN		ACCOUNT NO.
APPROVED BY: <i>[Signature]</i> DATE: 5-7-07		APPROVED BY: <i>[Signature]</i>		X-058
PRINCIPAL ENGINEER: EDUARDO MADALGA 5/7/07		CITY ENGINEER: <i>[Signature]</i>		
MARK REVISIONS APPR. DATE		HORIZ. SCALE: 1" = 40' VERT. SCALE: N/A		SHEET 6 OF 12
DESIGNED BY: RPH DRAWN BY: RPH CHECKED BY: JAT				