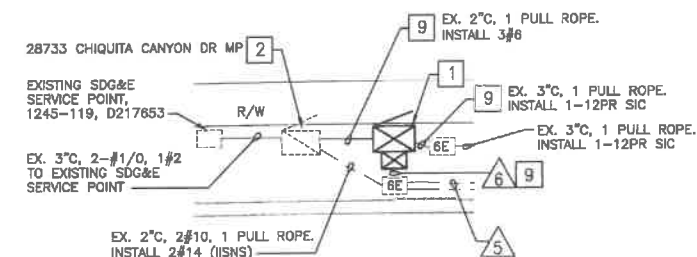


BID SET


GENERAL NOTES (THIS SHEET ONLY):

1. ALL METHODS, WORKS, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS AND THE SPECIAL PROVISIONS (SCOPE OF WORK) FOR THIS PROJECT UNLESS NOTED OTHERWISE.
2. UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE KNOWLEDGE. THE CONTRACTOR, HOWEVER, IS REQUIRED TO TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY INTERFERE WITH SUCH FACILITIES. CONTACT USA DIG AT 1-800-227-2600 48 HOURS IN ADVANCE.
3. EACH CONDUCTOR IN EACH PULL BOX SHALL BE IDENTIFIED WITH A PERMANENT IDENTIFICATION BAND IN PULL BOXES AND NEAR END OF EACH CONDUCTOR WHERE CONDUCTORS ARE TERMINATED. PERMANENT IDENTIFICATION BANDS SHALL BE EMBOSSED ALUMINUM FOIL TYPE WITH PRESSURE SENSITIVE OIL RESISTANT BACKING.
4. ALL NEW CONDUITS SHALL BE SCHEDULE 80 PVC AND SHALL BE 3" IN SIZE UNLESS OTHERWISE NOTED ON PLANS. ALL PVC CONDUITS SHALL HAVE A BARE #6 WIRE.
5. CORE, SAW-CUT, AND POLE FOUNDATION LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER PRIOR TO EXCAVATING. DIRT AND DEBRIS ON THE STREET SURFACE DUE TO SAWCUTTING AND CORING ACTIVITIES SHALL BE VACUUMED IMMEDIATELY AFTER SAWCUTTING. POLE PLACEMENT MAY BE ADJUSTED BY THE ENGINEER; NO ADDITIONAL COMPENSATION FOR THE NEW LOCATION SHALL BE GRANTED TO THE CONTRACTOR.
6. ALL PULL BOXES SHALL BE NO. 5 WITH FIBRELYTE NON-CONCRETE LID LABELED "TRAFFIC SIGNAL" UNLESS NOTED OTHERWISE ON PLAN.
7. ALL CONDUITS SHALL BE INSTALLED AT MINIMUM DEPTH OF 30".
8. TRENCHING IN STREET PAVEMENT SHALL NOT BE ALLOWED FOR THIS PROJECT. HOWEVER, IN SIDEWALK AREAS, CONTRACTOR MAY TRENCH OR BORE SUCH THAT SIDEWALK IS REPLACED IN KIND, SCORE MARK TO SCORE MARK.

CHIQUITA CANYON DRIVE



20 0 20 40
1" = 20'
GRAPHIC SCALE

9. PROTECT-IN-PLACE EXISTING SIGNS UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL FURNISH ALL MATERIAL AND EQUIPMENT REQUIRED.
11. CONTRACTOR SHALL POT-HOLE TO IDENTIFY EXACT UTILITY LOCATION AND DEPTH PRIOR TO BORING/JACKING CONDUIT.
12. ADDITIONAL REMOVAL AND REPLACEMENT OF ASPHALT CONCRETE MAY BE NEEDED. REMOVAL AND REPLACEMENT LIMITS WILL BE TO THE DISCRETION OF THE ENGINEER.
13. VIDEO DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE TERRA OR ENGINEER APPROVED EQUIVALENT.
14. UNINTERRUPTED POWER SYSTEM (UPS) SHALL BE CLARY CORPORATION SP1250PD "PLUS" TRAFFIC UPS OR APPROVED EQUAL HOUSED IN A CLARY CBS 126 NEMA 3R CABINET ENCLOSURE OR APPROVED EQUAL MOUNTED TO SIDE OF CONTROLLER CABINET.
15.  INDICATES VIDEO DETECTION ZONE.

CONSTRUCTION NOTES (THIS SHEET ONLY):

1. CONSTRUCT CONTROLLER FOUNDATION. FURNISH AND INSTALL NEW NEMA TS2 TYPE 2 ECONOLITE ASC/3-2100 CONTROLLER WITH ETHERNET PORT, DATA KEY, 9-PIN FSK MODULE VIDEO DETECTION SYSTEM (ECONOLITE AUTOSCOPE TERRA OR APPROVED EQUAL), EMERGENCY VEHICLE PREEMPTION (EVP) SYSTEM AND ALL NECESSARY EQUIPMENT FOR INTENDED OPERATION IN A NEW NEMA TS2 TYPE 2 PLUG-AND-GO TYPE P-44 CABINET AND UNINTERRUPTED POWER SYSTEM (UPS) PER SPECIFICATIONS.
2. EXISTING TYPE III-BF SERVICE CABINET.
3. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE OR SIGNAL MAST ARM PER ENGINEER APPROVAL. INSTALL NECESSARY VIDEO AND POWER CABLES INTO CONTROLLER CABINET.
4. FURNISH AND INSTALL MODEL 711 EVP OPTICAL DETECTOR UNITS ON MAST ARM AS SHOWN.
5. INSTALL SIGN ON SIGNAL MAST ARM PER CALTRANS STD. PLAN ES-7N.
6. INSTALL PULL BOX IN EXISTING CONDUIT RUN.
7. INSTALL CONDUIT INTO EXISTING PULL BOX.

8. ALL STOP SIGNS AND PAVEMENT MARKINGS SHALL BE REMOVED AT THE TIME OF SIGNAL ACTIVATION.
9. INTERCEPT EXISTING CONDUIT AND EXTEND INTO NEW CONTROLLER FOUNDATION.
10. REMOVE INTERIM STRIPING TO OPEN LEFT-TURN LANE.

Engineer's Note to Contractor:

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NO.	DATE	REVISIONS

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DESIGNED BY
MU
DRAWN BY
RC
CHECKED BY
JR

DATE
JANUARY 10, 2018
RCE 06281
EXP. 8-30-18

P.A. 2.3 - TTM NO. 17563
STREET IMPROVEMENTS
CHIQUITA CANYON DRIVE/
ESENCA DRIVE
TRAFFIC SIGNAL INSTALLATION PLAN

SHEET
17
OF
18
SHEETS

JOB NO.
2402-24

3rd Submittal 10/12/16

N:\Jobs\Active\OC Jobs\OC12-0232_PA2\PA 2.3 Signal Plans\CAD\2nd_Submittal\0232.02_E17-E18.dwg

BID SET

CABLE AND CONDUCTOR SCHEDULE														
AWG SIZE, WIRE OR CABLE TYPE	S T D	PHASES	CONDUIT SIZE & RUN NUMBER											
			1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12 CSC	①	#2,#2P,#5/#8PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	②	#7,#8,#8P/#2PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	③	#4,#4P,#7/#2PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	④	#1,#2,#2P/#4PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	⑤	#1,#6,#6P/#4PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	⑥	#3,#4,#4P/#6PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	⑦	#3,#8,#8P/#6PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	⑧	#5,#6,#6P/#8PPB	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
	TOTAL		1/1	2/2	3/3	4/4	5/5	8/8	3/3	2/2	1/1	1/1	1/1	1/1
#14	I.I.S.N.S.		2	2	2	2	2	2	2	2	2	2	2	2
#10	SIGNAL & SIGN COM.		1	1	1	1	2	2	1	1	1	1	1	1
	LUMINAIRES		2(E)	2(E)	2(E)	2(E)	2(E)	2(E)	2(E)	2(E)	2(E)	2(E)	2(E)	2(E)
	TOTAL		3	3	3	3	4	2	3	3	3	3	3	3
DLC	#2						1	1	1	1	1	1	1	1
	#4							1	1	1	1	1	1	1
	#6							2	2	2	2	2	2	2
	#8						1	1	1	1	1	1	1	1
	TOTAL		1	1	1	1	2	5	5	3	2	2	2	2
VIDEO DETECTION POWER/VIDEO			1	1	2	2	4	4	1	1	1	1	1	1
EVP CABLE (M-138)			1	1	2	2	4	4	1	1	1	1	1	1
CONDUIT SIZE			3"(E)	2-3"(E)	2-3"(E)	2-3"(E)	2-3"(E)	3-3"(E)	2-3"(E)	2-3"(E)	3"(E)	3"(E)	3"(E)	3"(E)
PERCENT FILL (%)			14	11	17	21	32	28	15	12	10	10	10	10

ALL CONDUIT AND CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED.
(E) = EXISTING CONDUIT OR CONDUCTORS

DETECTION SCHEDULE			
1	1-#1	9	1-#5
2	1-#2 2-#2	10	1-#6 2-#6
3	3-#2 4-#2	11	3-#6 4-#6
4	1-#3	12	5-#6
6	1-#4 2-#4	13	1-#7
7	3-#4	14	1-#8 2-#8

POLE AND EQUIPMENT SCHEDULE															
POLE DATA			SIGNAL M.A.	SOLID STATE L.E.D.		SIGNAL HEADS AND MOUNTINGS			PED. PUSH BUTTON		FOUNDATION		POLE LOCATION		IISNS LED TYPE (DOUBLE FACE)
NO.	TYPE	HEIGHT		M.A.	WATTS	VEHICULAR	M.A.	PEDESTRIAN	PHASE	QUAD.	TYPE	SIZE	"A"	"B"	
①	26-4-100	30'	45'(N)■	15'	132	SV-1-T(N)	MAS(N) MAS(N)	SP-1-CS(N)	#8	W	C	3'-6" x 12'-0"	EX.	EX.	ESENCIA (N)
②	15TS	30'	—	15'	132	SV-2-TB(N)	—	SP-1-CS(N)	#2	N	C	2'-6" x 7'-6"	EX.	EX.	—
③	19-4-100	30'	25'(N)■	15'	132	SV-1-T(N)	MAS(N) MAS(N)	SP-1-CS(N)	#2	N	C	3'-0" x 11'-0"	EX.	EX.	CHIQUITA CANYON (N)
④	15TS	30'	—	15'	132	SV-2-TB(N)	—	SP-1-CS(N)	#4	E	C	2'-6" x 7'-6"	EX.	EX.	—
⑤	26-4-100	30'	45'(N)■	15'	132	SV-1-T(N)	MAS(N) MAS(N)	SP-1-CS(N)	#4	E	C	3'-6" x 12'-0"	EX.	EX.	ESENCIA (N)
⑥	15TS	30'	—	15'	132	SV-2-TB(N)	—	SP-1-CS(N)	#6	S	C	2'-6" x 7'-6"	EX.	EX.	—
⑦	24-4-100	30'	35'(N)■	15'	132	SV-1-T(N)	MAS(N) MAS(N)	SP-1-CS(N)	#6	S	C	3'-0" x 11'-0"	EX.	EX.	CHIQUITA CANYON (N)
⑧	15TS	30'	—	15'	132	SV-2-TB(N)	—	SP-1-CS(N)	#8	W	C	2'-6" x 7'-6"	EX.	EX.	—

- NOTES:
- = INSTALL SIGNAL MAST ARM ON EXISTING SIGNAL POLE. C = C.I.D.H.
1. ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED.
(N) = NEW
2. PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE.

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P.A. 2.3 - TTM NO. 17563
STREET IMPROVEMENTS
CHIQUITA CANYON DRIVE/
ESENCIA DRIVE
CONDUCTOR AND POLE SCHEDULES

SHEET
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