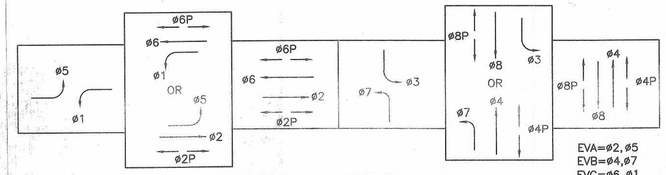
CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN 1 EX	2 EX	3 EX	4	5	6	7	8 EX	9 EX
#14	ø1 SIGNALS	3	3	3	3					
	ø2 SIGNALS	3	3	3	3	3	3	3		
	ø3 SIGNALS	3	3	3	3	3	3			
	ø4 SIGNALS	3	3						3	
	ø5 SIGNALS	6	6	3	3	3	3	3	3	3
	ø6 SIGNALS	6	6	3					3	3
	ø7 SIGNALS	3	3						3	
	ø8 SIGNALS	3	3	3	3	3				
	ø2 PED	2	2	2	2	2	2	2		
	ø4 PED	4	4	2	2	2	2		2	
	ø6 PED	4	4	2					2	2
	ø8 PED	2	2	2	2	2				
	ø2 PPB	1	1	1	1	1	1			
	ø4 PPB	1	1	1	1	1	1	1	1	1
	ø6 PPB	1	1						1	
	ø8 PPB	1	1	1	1					
	PEU		3						3	
	SPARES	6	6	3	3	3	3	3	3	3
	TOTAL #14	52	55	32	27	23	18	12	24	12
#12	PPB COMMON	1	1	1	1	1	1	1	1	1
#8	SERVICE	3								
	LUMINAIRE		4	2	2	2	2	2	2	
	SIGNAL COMMON	1	1	1	1	1	1	1	1	1
DLC	ø1 DETECTORS	1	1	1	1	1	1	1		
	ø2 DETECTORS	3	3	3	3					
	ø3 DETECTORS	1								
	ø4 DETECTORS	2	2	2	2	2	2			
	ø5 DETECTORS	1	1	1						
	ø6 DETECTORS	3	3						3	3
	ø7 DETECTORS	1	1	1	1	1	1			
	ø8 DETECTORS	2								
	ø2 SAMPLER	3	3	3	3	3	3	3		
	ø6 SAMPLER	3	3	3						
	TOTAL	20	17	14	10	7	7	4	3	3
EVP CABLE (OPTICAL)		4	4	3	2	2	1	1	1	
EVP CABLE (GPS)		1	1	1						
PPB NAVIGATOR CABLE				1		1		1		1
PTZ CAMERA WIRING (POWER,VIDEO&DATA)		1	1	1						
CONDUIT SIZE		(2)4"	4"	4"	3"	3"	3"	3"	3"	3"
PERCENT FILL		12%	24%	18%	21%	16%	15%	12%	13%	9%

SENSOR TABLE

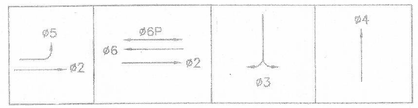
CH	DET	LOOP DETECTORS	
1	1	1A	(4)
2		2A	(3)
3		3A	(4)
4		4A	(4)
1	2	5A	(4)
2		6A	(3)
3		7A	(4)
4		8A	(4)
1	3	2B	(3)
2		4B	(2)
3		6B	(3)
4		8B	(2)
1	4	2C	(3)
2		6C	(3)
3		2D SAMPLER	(1)
4		2E SAMPLER	(1)
1	5	2F SAMPLER	(1)
2		6D SAMPLER	(1)
3		6E SAMPLER	(1)
4		6F SAMPLER	(1)

( ) LOOPS PER SENSOR



EVA=ø2,ø5
EVB=ø4,ø7
EVC=ø6,ø1
EVD=ø8,ø3

PROPOSED PHASE DIAGRAM

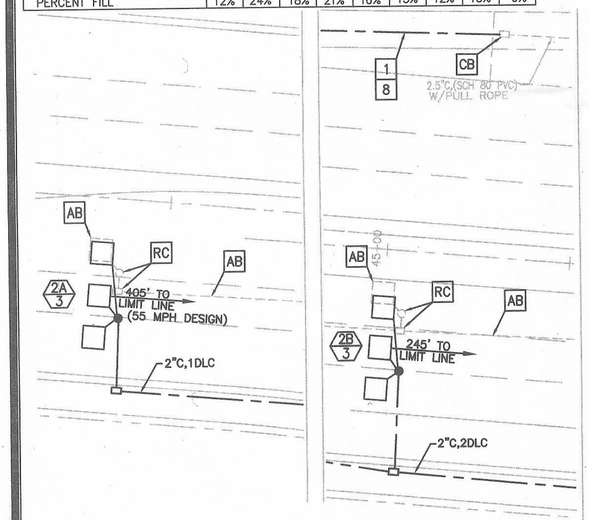


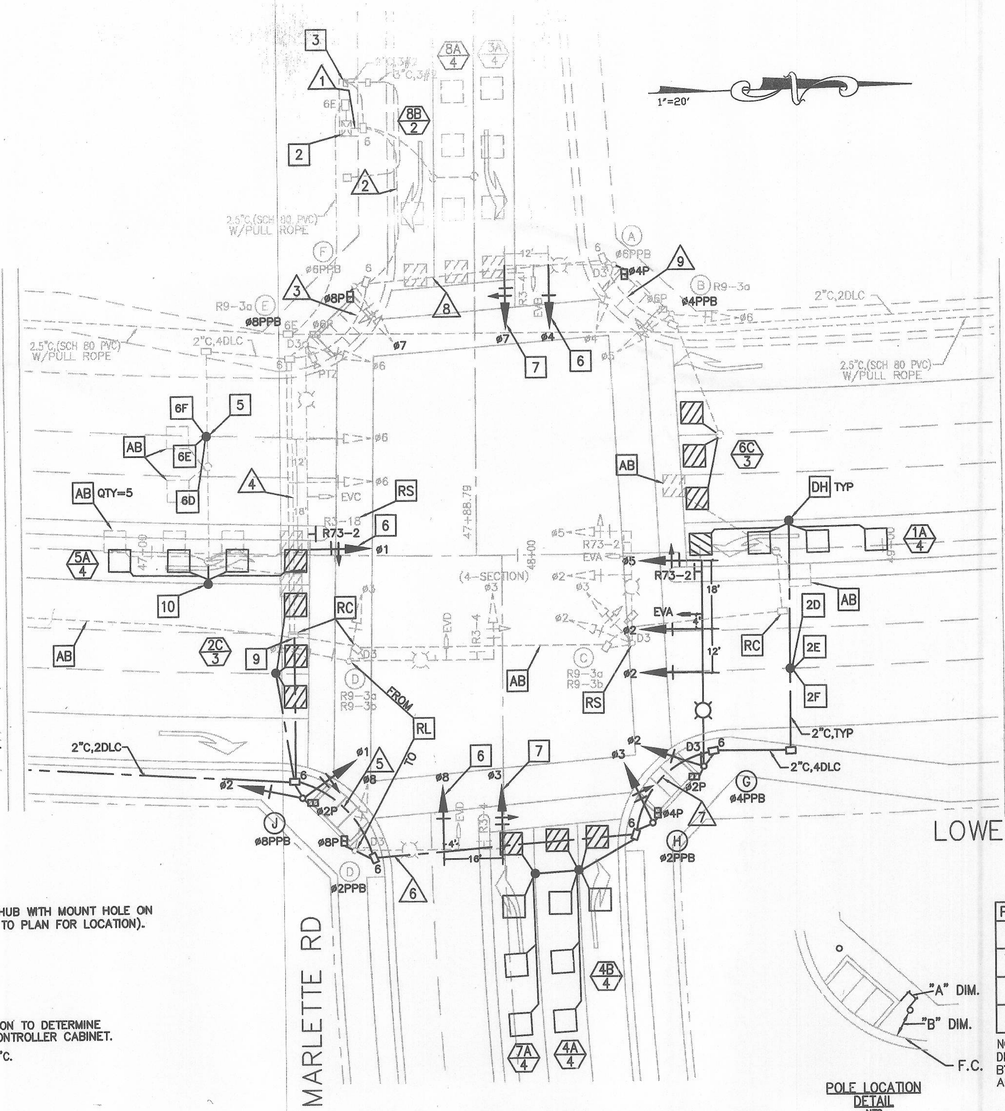
EXISTING PHASE DIAGRAM

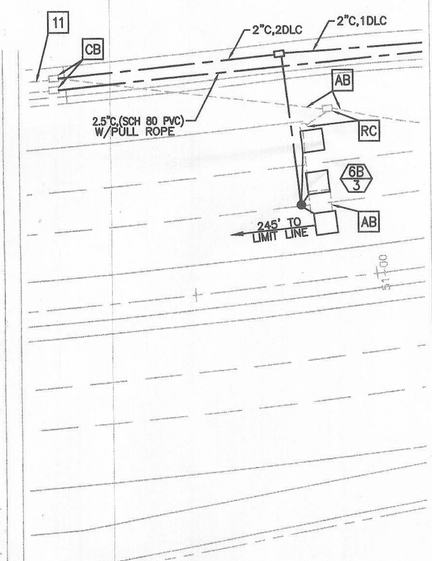
EQUIPMENT SCHEDULE

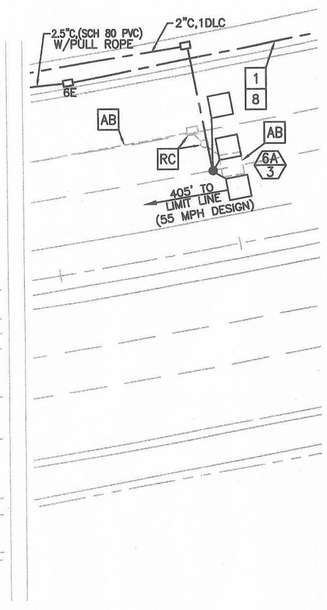
LOC	POLE TYPE	HGT	MAST ARM SIG	MAST ARM LUM	LUMINAIRE	SIGNAL MOUNTING PHASE	SECTION	VEHICLE	PED	PPB	REMARKS
Ⓐ	19-4-100 EX	30'	30'	15'	5700K LED 135W	ø7 ø4 ø4	A 12" 12"	MAS SV-1-T	ø4P SP-1-T	ø6 LEFT	INSTALL EQUIPMENT ON EXISTING STANDARD AS INDICATED. [6] [7]
Ⓑ	1-B EX	10'				ø5 ø6	A	TV-2-T	ø6P SP-1-T	ø4 RIGHT	INSTALL PPB ON EXISTING POLE. SALVAGE R9-3a SIGN.
Ⓒ	19-4-100 EX	30'	30'	15'	5700K LED 135W	ø5 ø2 ø2 ø3	A 12" 12" A	MAS SV-2-T			REMOVE AND SALVAGE POLE AND EQUIPMENT. REMOVE FOUNDATION. REUSE EV DETECTOR AND D3 SIGN ON NEW POLE "G".
Ⓓ	26-4-100 EX	30'	40'	15'	5700K LED 135W	ø3 ø8 ø8	A 12" 12"	MAS SV-1-T	ø8P SP-1-T	ø2 LEFT	RELOCATE POLE AND EQUIPMENT. REMOVE EX FOUNDATION. REUSE EX PHASE 2 HEAD FOR PHASE 8. [6] [7]
Ⓔ	29-5-100 EX	30'	55'	15'	5700K LED 135W	ø1 ø6 ø6 ø6	A 12" 12" 12"	MAS SV-1-T	ø6P SP-1-T	ø8 LEFT	INSTALL EQUIPMENT ON EXISTING STANDARD AS INDICATED. SALVAGE R9-3a SIGN. [6]
Ⓕ	1-B EX	10'				ø7	A	TV-1-T	ø8P SP-1-T	ø8 RIGHT	INSTALL PED HEAD ON EXISTING POLE.
Ⓖ	29-5-100	30'	55'	15'	5700K LED 135W	ø5 ø2 ø2 ø2	A 12" 12" 12"	MAS SV-1-T	ø2P SP-1-T	ø4 LEFT	INSTALL R73-2 SIGN, D3 SIGN AND EV DETECTOR. [4]
Ⓗ	1-B	10'				ø3	A	TV-1-T	ø4P SP-1-T	ø2 RIGHT	
Ⓙ	1-B	10'				ø1 ø2	A 12"	TV-2-T	ø2P SP-1-T	ø8 RIGHT	

- ALL PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOLS, COUNTDOWN TYPE.
- PEDESTRIAN PUSH BUTTONS SHALL MEET ADA ACCESSIBILITY GUIDELINES (SEE SPECIAL PROVISIONS) AND SHALL INCLUDE CUES VIA BOTH VIBRATING TACTILE ARROW AND AUDIBLE MESSAGE.
- REFER TO CITY STANDARD DRAWINGS FOR STREET NAME SIGN ASSEMBLY AND MOUNTING. D3 SIGNS SHALL BE MOUNTED AT INTERSECTION OF POLE AND MAST ARM.
- ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE INTERNALLY FUSED L.E.D. MODULES.
- A: INDICATES ALL 12" ARROW HEAD
- LUMINAIRES SHALL BE LEDway 5700K, 135 WATT WITH PHOTOCELL RECEPTACLE, MODEL: STR-LWY-3M-HT-06-UL-SV-700mA OR APPROVED EQUAL.









IMPROVEMENTS SHOWN THIS SHEET ARE FOR FUTURE CONDITIONS AND NOT FOR CONSTRUCTION AT THIS TIME

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. INSTALL 2.5"C(SCH 80 PVC) WITH PULL ROPE TO LIMITS OF IMPROVEMENTS. INSTALL NO.6E PULL BOX AT 300' INTERVALS.
2. EXISTING TYPE 2070N TRAFFIC SIGNAL CONTROLLER AND TYPE "P" CABINET. INSTALL CABINET EQUIPMENT AS NEEDED FOR PROPOSED PHASING AND DETECTION.
3. EXISTING TYPE III-AF ELECTRICAL SERVICE.
4. INSTALL OPTICAL DETECTOR ON SIGNAL MAST ARM. MAST ARM SHALL HAVE A WELDED HUB WITH MOUNT HOLE ON BACK OF MAST ARM (GALVANIZED AFTER ASSEMBLY) FOR DETECTOR MOUNTING (REFER TO PLAN FOR LOCATION).
5. INSTALL DH IN EXISTING CONDUIT.
6. INSTALL VEHICLE HEAD ON EXISTING TENON.
7. REMOVE AND SALVAGE EX 4-SECTION HEAD, INSTALL 3-SECTION ARROW HEAD.
8. CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC ENGINEER AT TIME OF CONSTRUCTION TO DETERMINE IF FIBER OPTIC CABLE IS TO BE INSTALLED IN NEW AND EXISTING 2.5"C TO EXISTING CONTROLLER CABINET.
9. EXTEND EXISTNG 3"C CONTAINING ONE PULL ROPE TO NEW PULL BOX. ABANDON 2nd 3"C.
10. EXTEND CONDUIT, INSTALL DH.
11. PULL BACK EXISTING 2DLC AND REINSTALL IN NEW 2"C.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

POLE LOCATION DETAIL
NTS

POLE LOCATION	"A" DIMENSION	"B" DIMENSION
Ⓖ	2'	5.5'
Ⓗ	2'	5.5'
Ⓘ	2'	5.5'
Ⓙ	2'	5.5'

NOTE: POSITIONING OF SIGNAL STANDARDS, PULLBOXES, DETECTORS AND CABINET EQUIPMENT SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. DIMENSIONS ARE TO EDGE OF POLE BASE.

REGISTERED PROFESSIONAL ENGINEER No. 32774 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

KD Anderson & Associates
Transportation Engineers
3853 Taylor Road, Suite G
Loomis, California 95650
(916)660-1555

CALL 811 BEFORE YOU DIG

ULTIMATE TRAFFIC SIGNAL PLAN

MARLETTE ROAD / LOWER SACRAMENTO ROAD INTERSECTION IMPROVEMENTS

REVISIONS			
SYMBOL	DATE	DESCRIPTION	BY	APPROVED

DATE: 2/6/14

FILE NAME: MARLETTE & L SAC

MARLETTE ROAD / LOWER SACRAMENTO ROAD INTERSECTION IMPROVEMENTS

ULTIMATE TRAFFIC SIGNAL PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: 1"=20'
DESIGNED BY: MB
DRAWN BY: MB
CHECKED BY: KDA
RECORD DWG:

APPROVED BY:
CITY ENGINEER STOCKTON, CA.
DATE: 3/6/14

SHEET NO. TS-2 OF 15

JOB NO.

5202.9C