CONDUCTOR SCHEDULE						
AWG	CIRCUIT	RUNS 1	2	3	4	5
#14	Ø1 SIGNAL	1		1		1
	Ø3 SIGNAL	1	1			
	Ø4 SIGNAL	1	1			
	Ø4 PED	1	1			
	Ø4 PPB	1		1	1	
	Ø6 SIGNAL	2		2	1	1
	Ø6 PED	1		1	1	
	Ø6 PPB	1	1			
	TOTAL #14	9	4	5	3	2
#8	LUMINAIRE	1		1		1
DLC	Ø4 DETECTORS	1		1		
	Ø7 DETECTORS	2				
	TOTAL	3		1		
PPB NAVIGATOR CABLE				1		
CONDUIT SIZE		EX. 2-4"	3"	EX. 4"	3"	4"

CONDUCTOR SCHEDULE		
CH	DET.	LOOP DETECTORS
1	1	N/A
2		N/A
3		N/A
4		4A (2)
1	2	N/A
2		N/A
3		7A (8)
4		N/A

() LOOPS PER SENSOR

- CONTRACTOR TO FIELD VERIFY WITH MAINTENANCE WHERE DETECTOR WIRING SHOULD BE TERMINATED IN THE CABINET.

LEGEND:

(N) – NEW
(R) – RELOCATE
(E) – EXISTING
PB – PULLBOX
C – CONDUIT
DLC – DETECTOR LOOP CONDUIT

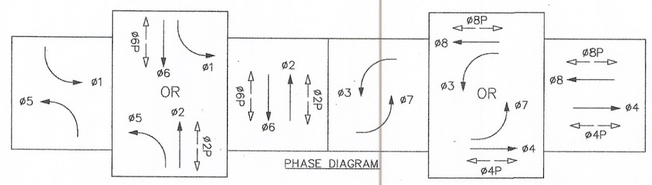
SIGNAL EQUIPMENT

NEW / EXISTING

- PEDESTRIAN SIGNAL FACE
- TRAFFIC SIGNAL POLE
- VEHICLE SIGNAL FACE (WITH BACKPLATE, 3-SECTION: RED, YELLOW AND GREEN)
- VEHICLE SIGNAL FACE CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
- CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET
- CONDUIT

POLE SCHEDULE													
POLE			MASTARMS		LUMINAIRE	SIGNAL MOUNTING					LOCATION		REMARKS
LOC	TYPE	HT.	SIG.	LUM.		PHASE	SECTION	VEHICLE	PED	PPB	"A" DIMENSION	"B" DIMENSION	
A	1-B	10'	-	-	-	Ø3 Ø4	A 12"	TV-2-T	Ø4 P SP-1-T	Ø6 RIGHT	7'	8'	CITY OF STOCKTON STD. DRAWING #113
B	1-B	10'	-	-	-	Ø6	12"	TV-1-T	Ø6 P SP-1-T	Ø4 LEFT	12'	8'	CITY OF STOCKTON STD. DRAWING #113
C	29-5-80 (RELOCATED)	30'	55' (RELOCATED)	15' (RELOCATED)	200 HPS	Ø1 Ø6	A 12"	MAS	-	-	10'	18'	CALTRANS STD. ES-6RA(1992) INSTALL RELOCATED R73-2(CA) AND D3 "ALPINE AVE" SIGNS

- A: INDICATES ALL 12" ARROW HEAD
- PEDESTRIAN PUSHBUTTONS SHALL MEET ADA ACCESSIBILITY GUIDELINES.
- ALL PROPOSED SIGNAL EQUIPMENT LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY THE BOLT PATTERN AND FOUNDATION OF POLE 'C' PRIOR TO POURING THE NEW FOUNDATION AND RELOCATING THE EXISTING POLE.



PHASE DIAGRAM

NOTE:

1. ALL TRAFFIC SIGNAL CONSTRUCTION SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND CITY OF STOCKTON STANDARD DRAWING NO.'S 111, 111A, 113, 116, 117, & 117A.
2. ALL EXISTING WIRING, INCLUDING LOOP DETECTORS, TO BE FIELD VERIFIED.

GENERAL NOTES:

1. POSITIONS OF SIGNAL POLES, PULLBOXES, DETECTOR HANDHOLES AND INDUCTIVE LOOPS SHALL BE FIELD VERIFIED BY THE ENGINEER WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER. PRIOR TO INSTALLATION. DIMENSIONS ARE TO CENTER OF POLE. TYPICALLY, DETECTOR HANDHOLES SHOULD BE INSTALLED ON LANE LINES.
2. ALL WORK AND MATERIAL EMBRACED IN THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE CITY OF STOCKTON, DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND PLANS, THE LATEST EDITIONS OF CALTRANS STANDARD PLANS AND SPECIFICATIONS, THE CALIFORNIA MUTCD AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS PROJECT.
3. ALL PULL BOXES SHALL BE STATE STANDARD NUMBER 5 UNLESS OTHERWISE NOTED ON PLAN.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY P.G. & E. AND OTHER UTILITY COMPANIES PRIOR TO START OF WORK. THE CONTRACTOR SHALL CALL USA (800-227-2600) 48 HOURS PRIOR TO ANY EXCAVATION.
5. CONDUITS RUNNING FROM PULL BOX TO HAND HOLE AND HAND HOLE TO HAND HOLE SHALL BE A MINIMUM 2" DIA. UNLESS OTHERWISE NOTED. ALL DETECTOR HAND HOLES SHALL BE TYPE B.
6. THE CONTRACTOR SHALL CONTACT THE CITY OF STOCKTON PUBLIC WORKS DEPARTMENT (937-1282) FOR A PRE-CONSTRUCTION CONFERENCE AFTER THE AWARD OF CONTRACT AND AT LEAST 72 HOURS IN ADVANCE OF WORK.
7. LABEL PEDESTRIAN AND SIGNAL COMMONS SEPARATELY IN THE CONTROLLER CABINET.
8. CONTRACTOR SHALL, BY HAND, POTHOLE EXISTING UTILITIES TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK CALLED FOR ON THESE PLANS UNTIL ALL APPLICABLE PERMITS HAVE BEEN OBTAINED. AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE DURING ANY CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COST RESULTING FROM THE CONTRACTOR'S FAILURE TO REPORT OR FAILURE TO STOP WORK AS DIRECTED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FORM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
12. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, STV INCORPORATED ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. CALL USA (800-227-2600). THE CONTRACTOR SHALL STOP WORK AROUND THE AREA OF CONFLICT UNTIL HE IS DIRECTED BY THE CITY ENGINEER TO CONTINUE.
13. CONDUIT ROUTING SHOWN IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAY OUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES OR ANY OTHER TRADES, AND TO THE SATISFACTION OF THE CITY OF STOCKTON, UPON COMPLETION OF CONDUIT INSTALLATION, THE ACTUAL LOCATION OF THE CONDUITS SHALL BE NOTED ON AN AS-BUILT SET OF PRINTS AND FURNISHED TO THE CITY.
14. ATTENTION IS CALLED TO: SECTION 1540(A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:
   "PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC, LINES, ETC. WILL BE ENCOUNTERED AND, IF SO, WHETHER SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION. THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."
15. THE CONTRACTOR SHALL NOTIFY THE CITY OF STOCKTON CORPORATION YARD (SIGNAL SHOP) AT (209-937-7406) A MINIMUM OF 72 HOURS IN ADVANCE OF THE LAY OUT AND CUTTING OF TRAFFIC SIGNAL LOOPS.
16. CONTRACTOR SHALL MARK LOOP LOCATIONS, LOOP WIRE RUNS AND DETECTOR HANDHOLES AND HAVE LOCATIONS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
17. CONTRACTOR SHALL USE SONA-TUBE FOR POLE FOUNDATION INSTALLATION AT ANY LOCATIONS WHERE EXISTING UTILITIES ARE IMMEDIATELY ADJACENT TO FOUNDATION.
18. CONTRACTOR SHALL RETURN ALL EXISTING AND SALVAGEABLE EQUIPMENT TO THE CITY OF STOCKTON CORPORATION YARD AT 1465 SOUTH LINCOLN STREET, STOCKTON, CALIFORNIA, 95205. CONTRACTOR SHALL NOTIFY THE CORPORATION YARD AT (209)937-7406, A MINIMUM OF 72 HOURS IN ADVANCE OF DELIVERY.

CONSTRUCTION NOTES:

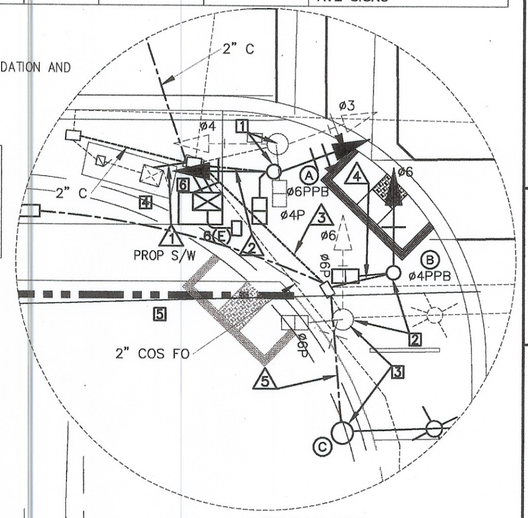
1 REMOVE EXISTING TRAFFIC SIGNAL POLE. REMOVE FOUNDATION 12" BELOW GRADE AND BACKFILL. RELOCATE EXISTING VEHICLE SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON TO NEW POLE Ⓐ.

CONSTRUCTION NOTES CON'T:

2 RELOCATE EXISTING VEHICLE SIGNAL HEAD, PEDESTRIAN SIGNAL HEAD AND PUSHBUTTON FROM EXISTING SIGNAL POLE TO NEW POLE Ⓑ.

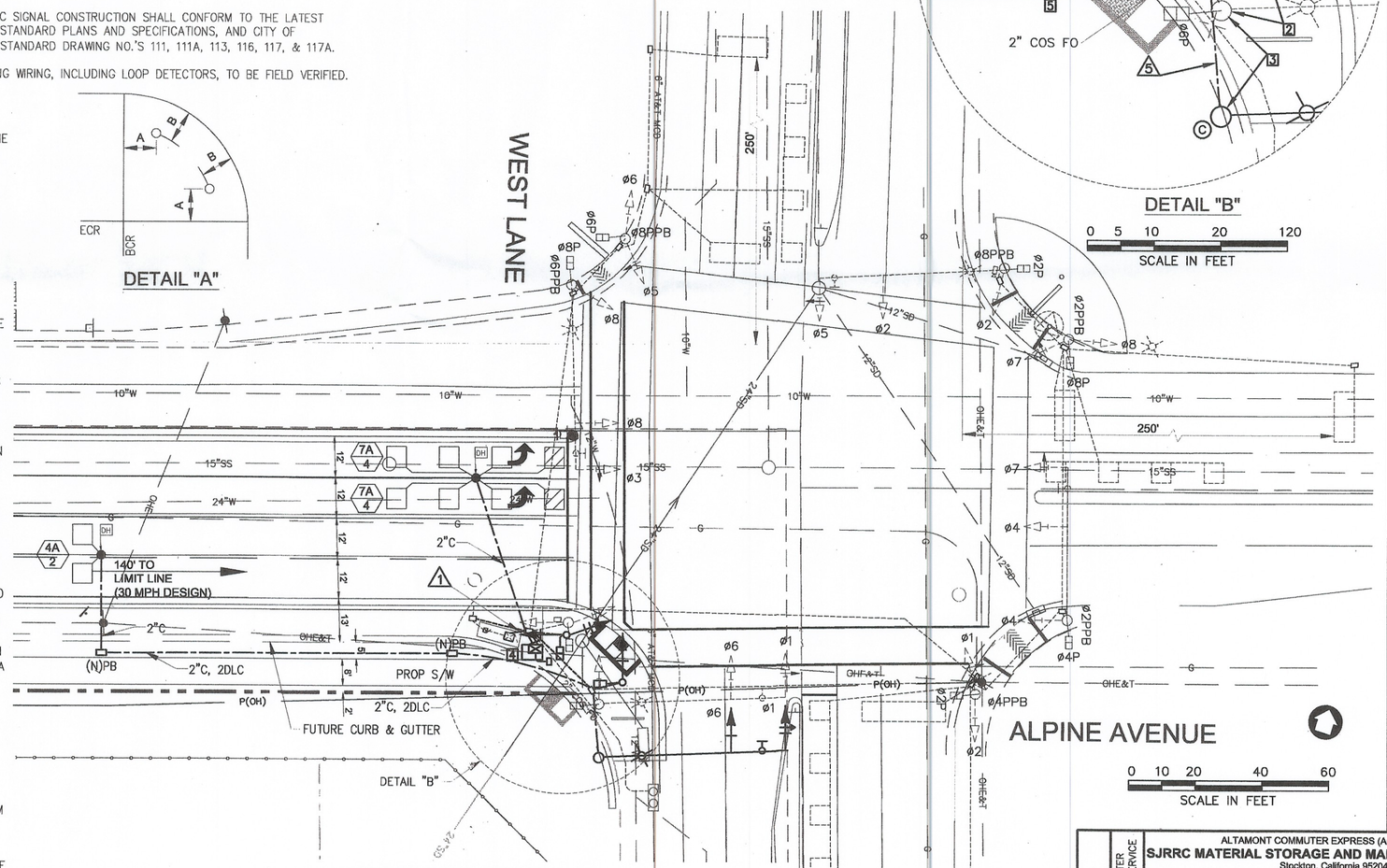
3 CONSTRUCT NEW SIGNAL POLE FOUNDATION PER CALTRANS STD. PLAN ES-6RA (1992). RELOCATE EXISTING SIGNAL POLE Ⓒ, MAST ARM, LIGHTING ARM, VEHICLE SIGNAL HEADS, AND SIGNS TO NEW FOUNDATION. REMOVE EXISTING FOUNDATION 12" BELOW GRADE AND BACKFILL.

DETAIL "A"



DETAIL "B"

0 5 10 20 120
SCALE IN FEET



0 10 20 40 60
SCALE IN FEET

CONSTRUCTION NOTES CON'T:

4 EXISTING TYPE 332 CONTROLLER CABINET WITH TYPE 170 TS CONTROLLER (MAINTAINED BY CALTRANS FOR SAN JOAQUIN COUNTY)

5 RED FLASH OR REQUIRED SHUTDOWNS SHALL BE APPROVED IN ADVANCE BY CITY AND COUNTY, 72-HOURS PRIOR TO IMPLEMENTATION, NO FLASHING OPERATIONS DURING PEAK COMMUTE HOURS.

Will accept 36 hr notice since the construction is scheduled. EV. 11/7/12

6 CONSTRUCT TYPE "P" FOUNDATION AND WALKWAY WITH TWO(2) 4" CONDUITS TO EXISTING PULL BOX TO THE NORTH, NO. 6E INTERCONNECT PULL BOX AND CONDUIT, AND CONDUIT STUB FOR FUTURE POWER CONNECTION. CONSTRUCT TYPE "P" FOUNDATION PARALLEL TO ALPINE AVENUE. REFER TO SHEET TS-2 FOR DETAILS.

#6

PS-12-02647

REGISTERED PROFESSIONAL ENGINEER — M. R. Smith — No. C48546 — Exp. 6/30/14 — CIVIL — STATE OF CALIFORNIA

STV Incorporated
Architects/Engineers/Planners/Construction Managers
9160 Archibald Place, Suite 210
Rancho Cucamonga, California 91730
Phone:(909) 484-8540 Fax:(909) 484-1380

CALL 800-227-2600 BEFORE YOU DIG

TRAFFIC SIGNAL MODIFICATION PLAN
ALPINE AVENUE / WEST LANE

SJRRC MATERIAL STORAGE AND MAINTENANCE FACILITY
Stockton, California 95204

Revision No.	Description	Date	By	Appvd. By

DATE:
FILE NAME: ALTAMONT COMMUTER EXPRESS (ACE) SERVICE

ALTAMONT COMMUTER EXPRESS (ACE) SERVICE
SJRRC MATERIAL STORAGE AND MAINTENANCE FACILITY
Stockton, California 95204

TRAFFIC SIGNAL MODIFICATION PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE:	1"=20'	APPROVED BY:	DATE: 9/20/12
DESIGNED BY:	MCG		
DRAWN BY:	DLH		
CHECKED BY:	SDY	CITY ENGINEER STOCKTON, CALIFORNIA	
RECORD DWG.:			

DRAWING NO. TS-1
SHEET 19 OF 35
PROJECT NO.

5175.18C

HdmRL Sep 14, 2012 - 11:00am I:\PROJECTS\401524\401524S_001\90_CAD Models and Sheets\17-X_Other Discipline\SJRRD ACE - Traffic Signal\Drawings\18_TS-1.dwg