

**ADDENDUM NO. 1**

**Alder Avenue  
WORK ORDER: H14978  
AREA: Fontana  
ROAD NO.: 160050 040-050**

**BIDS OPEN 1:00 PM, THURSDAY, JANUARY 13, 2022**

**By Email via ePro System**

**Amend the Special Provisions as follows:**

1. Section **10-1.18 ASPHALT CONCRETE (RAP Optional)**, SP-89, replace the first line of the 9th paragraph to read as follows:  
Item 3. **RESERVED.**
2. Section **10-1.27 MISCELLANEOUS FACILITIES**, SP-94, replace third paragraph with the following:  
The existing inlet left of station 10+50 +/- Alder Avenue shall be **replaced with a new inlet grate assembly** and frame shall be surrounded by Minor Concrete 2' wide conforming to the provisions of Section 90, "Portland Cement Concrete," of the Standard Specifications (aggregate gradation to be the option of the Contractor) with a minimum thickness of six inches with six inch class 2 base.
3. Add Section **10-1.38 POTHOLE UTILITY FOR SIGNAL LIGHTING WORK** to read as follows:

**10-1.38 POTHOLE UTILITY FOR SIGNAL LIGHTING WORK**

This work shall consist of potholing underground utility lines to verify their depth(s) and location(s). The intent is to confirm clearances to underground utility lines.

Contractor shall conduct potholing operations in a safe manner relative to public traffic and shall conform to the provisions in Sections 7-1.03 "Public Convenience", 7-1.04 "Public Safety" and 12 "Temporary Traffic Control" of the Standard Specifications. Nothing in these special provisions shall be construed as relieving the Contractor from his responsibility as provided in said Section 7-1.04. Contractor shall provide traffic control in accordance with the requirements in the sections entitled "Traffic Control", elsewhere in these Special Provisions.

Attention is directed to Sections 5-1.36 "Property and Facility Preservation" and 15 "Existing Highway Facilities" of the Standard Specifications and these special provisions.

Potholing shall be subject to the following:

1. Contractor shall anticipate to pothole sixteen (16) locations at intersection of Alder Ave and Valley Blvd.
2. Contractor may pothole an additional four (4) potholes if directed by the Engineer.
3. Contractor shall pothole on a maximum of three (3) separate occasions.
4. Any delays up to ten (10) working days including stand by time to the Contractor's operations as a direct result of the work in this section will entitle the Contractor to an extension of time as provided in Section 8-1.07, "Liquidated Damages." **The Contractor shall be entitled to no other compensation for these delays.** When preparing their bids, Contractors should keep this in mind. The ten (10) working days need not be consecutive.
5. Potholing may or may not be performed on consecutive days.

## ADDENDUM NO. 1 – ALDER AVENUE

January 10, 2022

Page 2 of 4

If the Engineer determines that a utility relocation or protection measures are needed, the utility relocation shall be performed in accordance with the provisions in the section entitled "Supplemental Work (Unforeseen Differing Site Conditions and Utility Conflicts)" elsewhere in these Special Provisions. The contractor shall provide potholing data to the Engineer. Data shall include type, size and depth of utility, structural section of area potholed (i.e. thickness of asphalt and base material and any other identifying information for the utility found).

Contractor shall notify the Engineer at least one working day prior to potholing and shall obtain approval to proceed before potholing. Contractor shall also notify USA 48 hours prior to any potholing. The top of the existing utility line(s) shall be surveyed for elevation and verified with the Engineer for proper depth. At the option of the Engineer, the County Surveyor may be on site to perform the survey to establish the horizontal and vertical location of the utility line.

Potholes shall not be allowed to be left open and unattended.

Vacuum and/or hand excavation methods may be used. At each location, the contractor shall remove pavement, if necessary, as required by core drilling or saw cutting. Contractor shall excavate to expose the tops of the utility lines. Surfacing shall be removed without damage to surfacing that is to remain in place. Damage to pavement which is to remain in place shall be repaired to a condition satisfactory to the Engineer. All repairs to pavement damaged outside the limits of pavement to be replaced shall be at the Contractor's expense and will not be measured nor paid for.

The asphalt surfacing material removed shall be disposed of outside the highway right of way as provided in the Standard Specifications.

As soon as the Contractor has completed potholing, the Contractor shall backfill and repair the potholes. Unless otherwise specified, the material obtained from the project excavations will be suitable for use as fill or backfill, provided that all organic material and other unsuitable material is removed. Rocks and plain concrete rubble obtained from the project will be permitted in the backfill subject to the following limitations:

- Pieces larger than 4-inches shall not be placed within 1-foot of any structure.
- Pieces larger than 3-inches shall not be placed within 1-foot of the subgrade for paving.
- Rocks or rubble included in the fill shall be mixed with approved material to eliminate voids.
- Slurry (1-1/2 sack) is also an acceptable option for backfill.

Relative Compaction of 95% shall be required for any material which is within 0.5-foot of the paving base material. Relative Compaction of 90% minimum shall be required for all other fill or backfill. Any work done to obtain the compaction requirements for the area or the areas below the grading plane shall be the responsibility of the Contractor.

Contractor shall obtain permits as required for all work located within the City of Fontana.

Work described in this Section is only for locating existing utilities for the purpose of Traffic Signal Improvement. Other potholing and locating efforts must be done with other pertinent activities and sections.

The contract unit price paid for **Potholing Utility** shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in potholing utility, including recording and providing potholing data as specified in the standard specifications, these special provisions, and as directed by the Engineer.

## ADDENDUM NO. 1 – ALDER AVENUE

January 10, 2022

Page 3 of 4

### Amend the Project Drawings as follows:

1. Sheet 3 of 13:  
Delete Sheet 3 of 13 and replace with Sheet 3 of 13
2. Sheet 8 of 13:  
Delete Sheet 8 of 13 and replace with Sheet 8 of 13
3. Sheet 12 of 13:  
Delete Sheet 12 of 13 and replace with Sheet 12 of 13
4. Sheet 13 of 13:  
Delete Sheet 13 of 13 and replace with Sheet 13 of 13

### Questions and Answers:

Question:	Answer:
The bid date is different on the website then in the specs, Please confirm bid date.	The bid opening date is January 13 at 1pm.
Is microcracking required for Cemet treatment.	Microcracking is not required for this project.
Section 10-1.18 and plans refere to PG 70-10 binder for HMA. Number 3 in this section mentioned PG 64-28PM. What is the correct binder for HMA?	Item 3 referencing PG 64-28PM has been revised to read "Reserved" with this addendum. See Section 10-1.18 paragraph "1.a)" & "2.b)" for the Binder Grades at different locations.
Under Section 10-1.01 Second Order of Work the contractor is to get encroachment permit for City of Fontana. Copy of the permit application, as referenced, is not included. Is there a permit fee from the City? Will the County reimburse cost of permit?	City of Fontana will issue a no-cost permit as agreed in the County/City cooperative agreement for this project. The agreement is included in the Brown Pages of these Special Provision.

### Attachments:

1. Revised Sheet 3 of 13, Alder Avenue – Typical Cross Sections;
2. Revised Sheet 8 of 13, Alder Avenue – Curb Return Details;
3. Revised Sheet 12 of 13, Alder Avenue at Valley Boulevard - Traffic Signal Modification Plan;
4. Revised Sheet 13 of 13. No revisions, re-scanned to improve clarity;
5. Revised Bid Item Sheet. Replace proposal page P-3 and P-4 with the attached revised sheet P-3 and P-4.

**ADDENDUM NO. 1 – ALDER AVENUE**

January 10, 2022

Page 4 of 4

The addition of these requirements shall be considered in concert with existing documents in preparation of bids. **THE BIDDER'S CERTIFICATION FOR THIS ADDENDUM NO. 1 SHALL BE SIGNED BY THE SAME PERSON WHO SIGNS THE PROPOSAL AND SHALL BE SUBMITTED WITH THE PROPOSAL.** *ANY proposal not accompanied by a signed BIDDER'S CERTIFICATION (below) acknowledging receipt of this Addendum No. 1 will NOT be accepted.*

**BRENDON BIGGS**, Director  
Department of Public Works

By: 

Andy Silao, P.E., Chief  
Contracts Division

AS:mb

**BIDDER'S CERTIFICATION:**

**By my signature hereunder, I acknowledge receipt of Addendum No. 1 and I fully understand the intent and detail of Addendum No. 1, which I have considered in my preparation of the attached proposal.**

\_\_\_\_\_  
**Bidder's Signature**

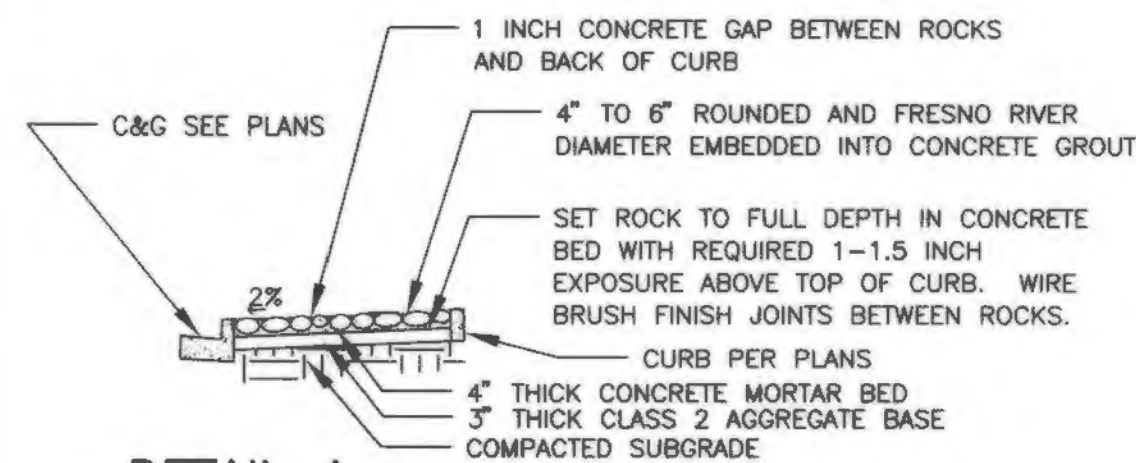
\_\_\_\_\_  
**Date**

**Note:** The page containing the executed BIDDER'S CERTIFICATION (just this page), must be included with the proposal.



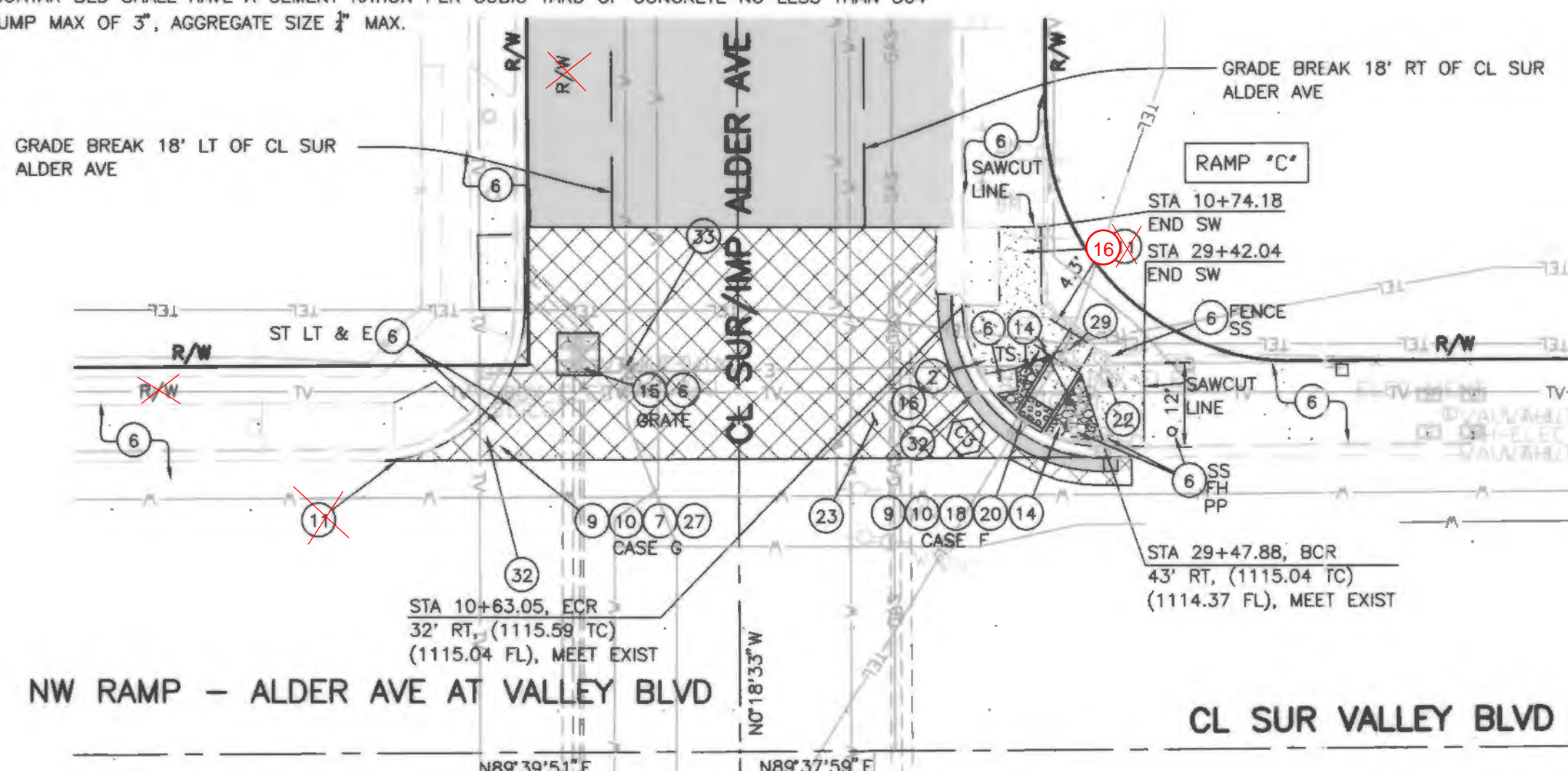
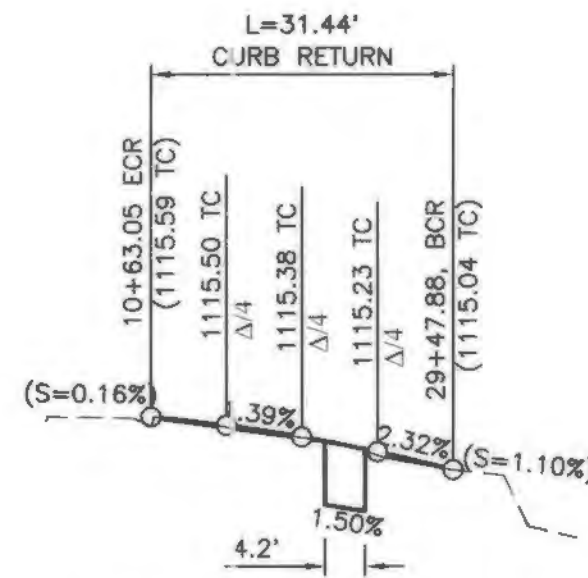






- DETAIL A
- ROCK SIZES UNLESS OTHERWISE SPECIFIED SHALL BE: COBBLESTONE, MIN 6" TO MAX 8" WITH ONE SIDE FLAT
  - ROCKS SHALL BE SMOOTH, ROUNDED, FREE OF OBJECTIONABLE DISFIGURATIONS AND IRON CONTENT AS APPROVED BY THE COUNTY ENGINEER.
  - CONCRETE SHALL BE CLASS 3, 2 INCH SLUMP CONCRETE
  - WIRE BRUSH ALL JOINTS AFTER THE INSTALLATION OF THE ROCKS.
  - AFTER CONCRETE MORTAR HAS SET, HYDROBLAST AS DIRECTED BY THE COUNTY ENGINEER. BRUSH ROCKS TO REMOVE CEMENT COATING.
  - ROCK SHALL BE SATURATED SURFACE MOIST (SSM) PRIOR TO PLACEMENT
  - CONCRETE MORTAR BED SHALL HAVE A CEMENT RATION PER CUBIC YARD OF CONCRETE NO LESS THAN 564 POUNDS; SLUMP MAX OF 3", AGGREGATE SIZE 3/4" MAX.

PROFILE - RAMP "C"

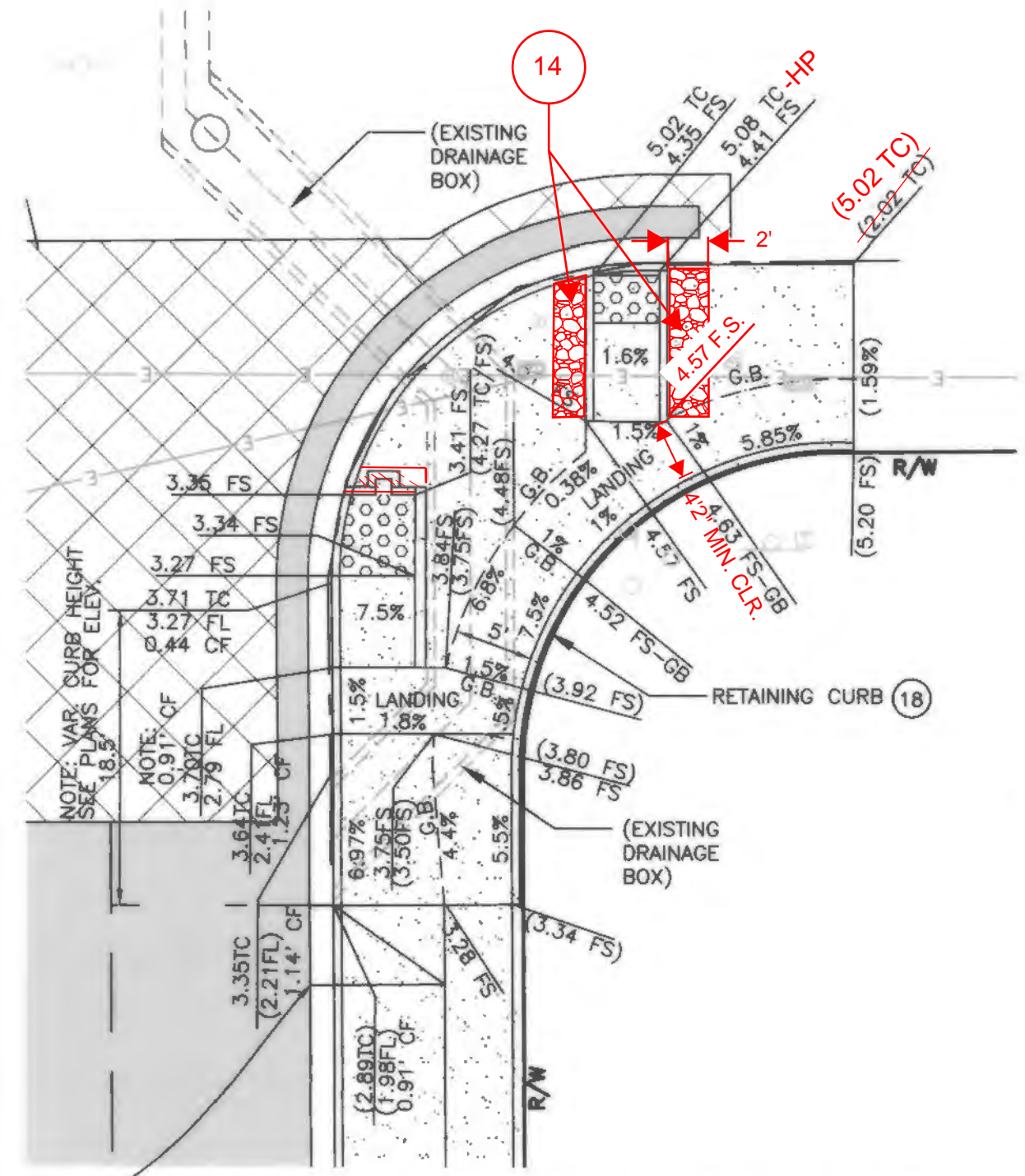
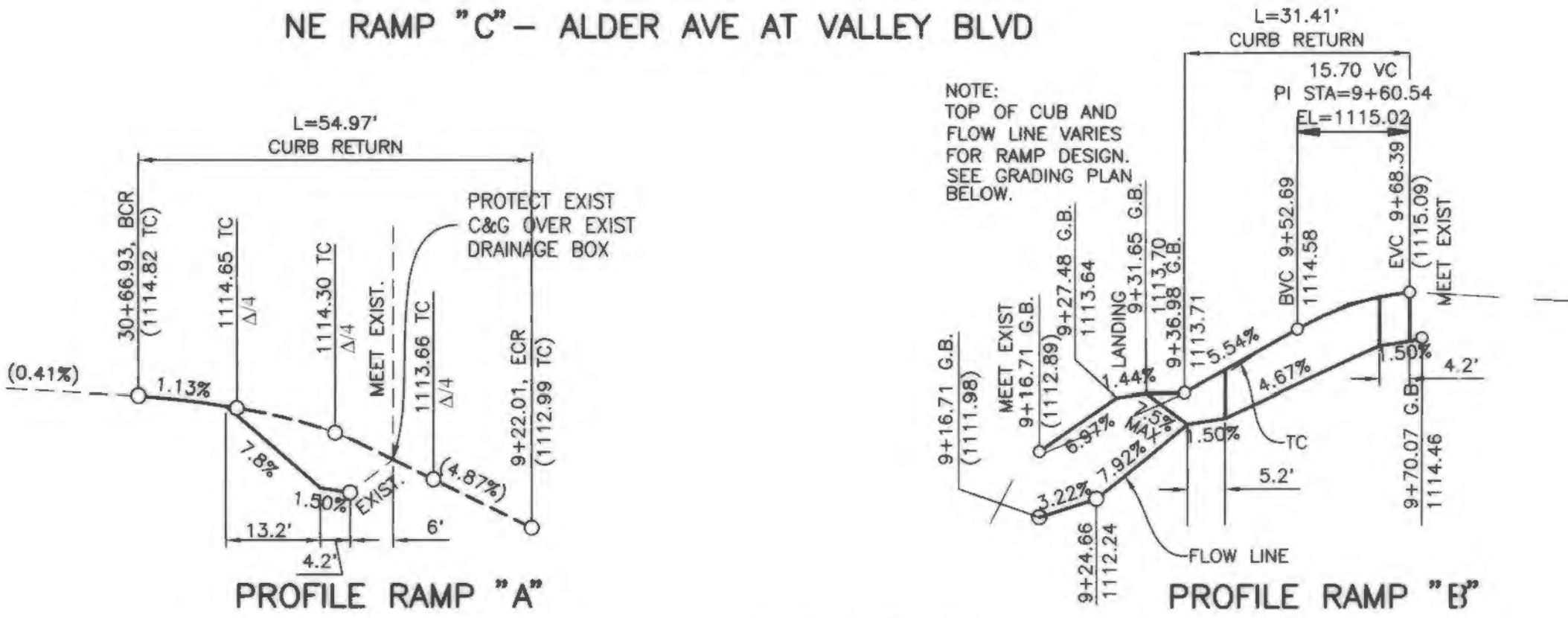


TC OR AC CURB RETURN DATA				
Curve #	Δ	R	L	T
C1	089°59'30"	35'	54.97'	34.99'
C2	089°58'38"	20'	31.41'	19.99'
C3	090°03'29"	20'	31.44'	20.02'
C4	090°03'39"	20'	31.44'	20.02'
C5	089°56'16"	20'	31.39'	19.98'

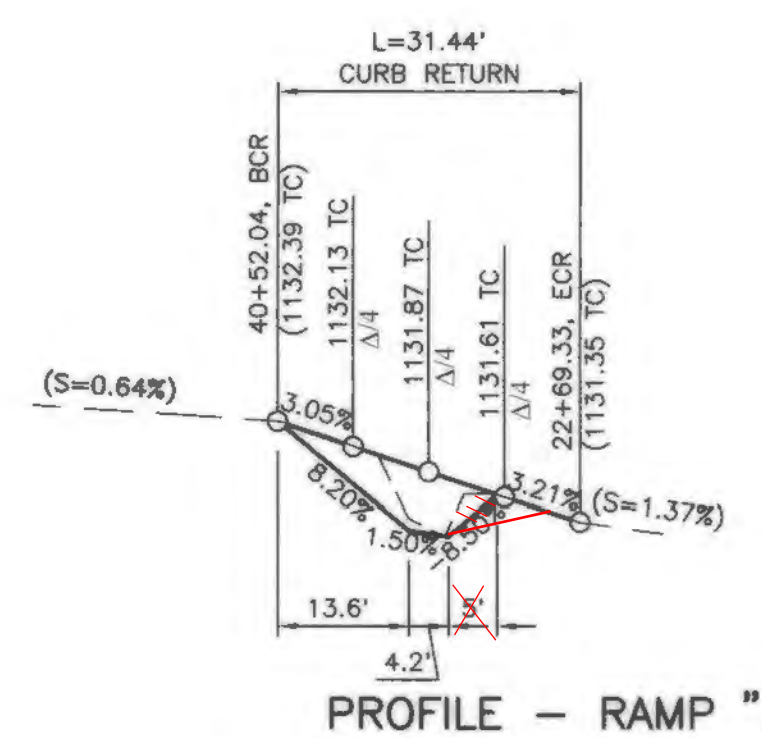
- CONSTRUCTION NOTES:
- UTILITIES TO BE RESET BY OTHERS. (SEE NOTE U. OF GENERAL NOTES ON SHEET 2.)
  - SAWCUT AND REMOVE ASPHALT CONCRETE SURFACING, D/W, RAMP AND/OR DIKE.
  - SAWCUT AND REMOVE CONCRETE SURFACING (RAMP, SIDEWALK, DRIVEWAY, SPANDREL AND CROSS GUTTER).
  - PROTECT IN PLACE.
  - CONSTRUCT 8" CONCRETE CURB AND GUTTER PER CITY OF FONTANA STD 1000.
  - CONSTRUCT RAMP PER CALTRANS STD RSP A88A OR A88B, CASE PER PLAN.
  - REMOVE EXISTING CONCRETE CURB.
  - CONSTRUCT SIDEWALK PER CITY OF FONTANA STD 400.
  - CONSTRUCT SPANDREL/CROSS GUTTER PER COUNTY STD 119 (MODIFIED).
  - INSTALL METAL HAND RAILINGS PER COUNTY SPPWC 606-5, TYPE A.
  - PLACE ROCK TREATMENT PER DETAIL A.
  - CONSTRUCT 2' WIDE X 6" THK DEPTH CONCRETE PAD PLUS 6" BASE TO GRATE INLET. AND INSTALL NEW FRAME & GRATE
  - CONSTRUCT CONCRETE SIDEWALK PER COUNTY STANDARD 109.
  - CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 115.
  - PLACE DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLAN RSP A88A.
  - REMOVE AND DISPOSE OF EXISTING PALM TREE AND STUMP.
  - COLD PLANE (0.15' AND UP TO 0.20') OF EXISTING ASPHALT CONCRETE PAVEMENT TACK COAT AND PLACE (0.15' AND UP TO 0.20') OF TYPE G, 3/4" AGGREGATE GRADATION, PG 64-16 RUBBERIZED HOT MIX ASPHALT OVERLAY.
  - COLD PLANE (0.20' THK) OF EXISTING ASPHALT CONCRETE PAVEMENT TACK COAT AND PLACE (0.20' THK) OF TYPE G, 3/4" AGGREGATE GRADATION, PG 64-16 RUBBERIZED HOT MIX ASPHALT OVERLAY.
  - EXISTING SIGN TO BE RESET PER SIGNING AND STRIPING PLANS.
  - REPLACE PULL BOX PER SIGNAL MODIFICATION PLAN
  - SAW CUT AND REMOVE BROKEN CURB AS NECESSARY OVER DRAINAGE STRUCTURE TO CONSTRUCT 8" DOWEL CURB PER CALTRANS STD. A87A, TYPE B3.
  - SAWCUT AND REMOVE 2' MIN ASPHALT CONCRETE SURFACING. PLACE 1" THICK TYPE "A" ASPHALT 1/2" AGGREGATE GRADATION, PG 70-10 HOT MIX ASPHALT OVER COMPACTED NATIVE SOIL.
  - CONSTRUCT RAMP PER CITY OF FONTANA STD PLAN 1003 WITH DETECTABLE WARNING SURFACE.
  - REMOVE AND DISPOSE OF EXISTING TOP OF DRAINAGE OUTLET STRUCTURE. DOWEL AND BOND #4 BAR INTO EXISTING STRUCTURE WALLS @ 18" OC, 9" DEEP THEN PLACE BARS AS SHOWN ON COUNTY STD 210A. RECONSTRUCT PER COUNTY STANDARD 210A, 204 AND 206A AND RAMP B ELEVATIONS SHOWN ON SHEET 8. AND INSTALL NEW MANHOLE FRAME AND COVER.

NOTE:  
Installation of conduits and pull boxes will require concrete removals and replacement using directional drilling or trenching methods. Contractor to consider the possibility that trenching for installation of conduits will be required, at the sole Engineer's discretion, in consideration for limited space, clearance or utility conflicts. Additional concrete areas may need to be removed and replaced to facilitate installation of signal conduits and pull boxes, recommend limits of concrete areas be reviewed based on traffic signal modification plan improvements on sheet 12 and 13 for additional details.

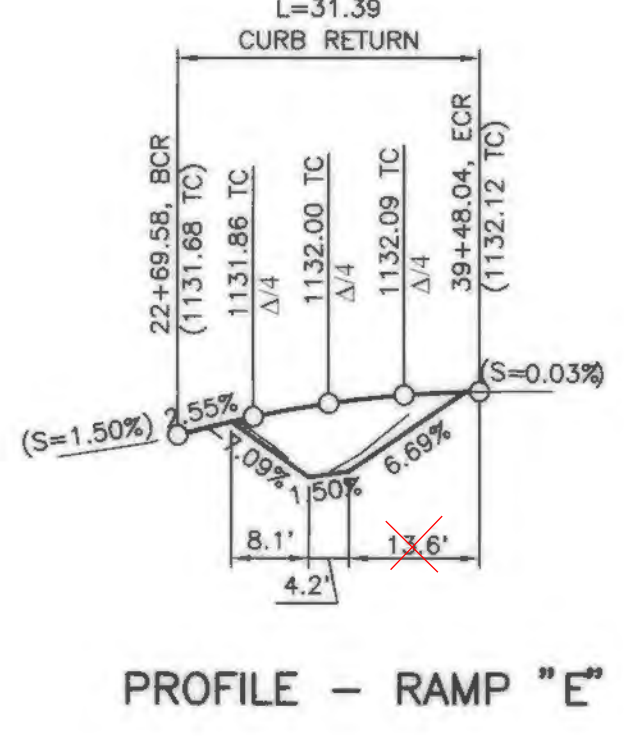
See Traffic and Signal plans for proposed controller cabinets, pull boxes, poles and signal improvements.



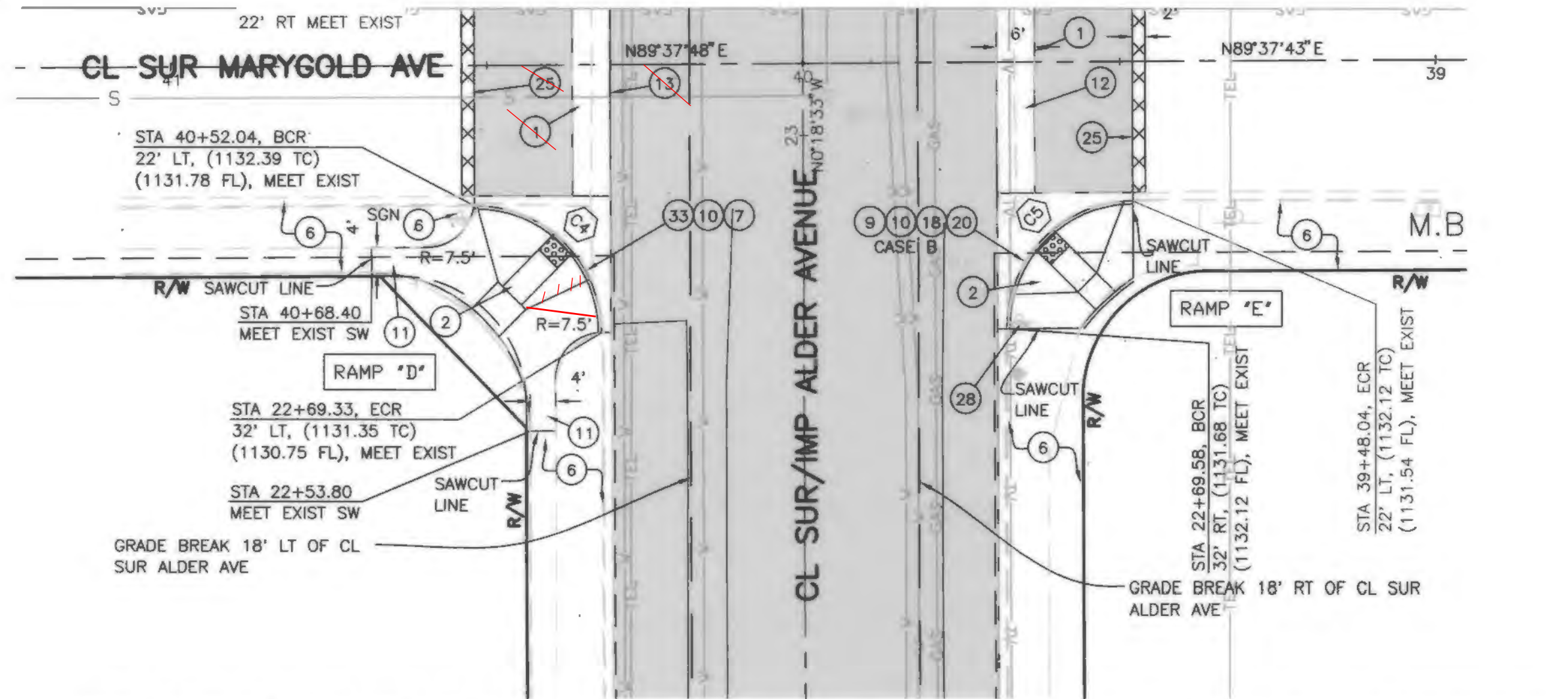
SE RAMP "B" - ALDER AVE AT VALLEY BLVD  
SE RAMP "B" - GRADING PLAN



PROFILE - RAMP "D"



PROFILE - RAMP "E"



SW RAMP "D" - ALDER AVE AT MARYGOLD AVE  
SE RAMP "E" - ALDER AVE AT MARYGOLD AVE

Addendum #1

CITY OF FONTANA, CALIFORNIA  
STREET IMPROVEMENT PLANS  
ALDER AVE

APPROVED BY: *[Signature]* 11-8-21  
CITY ENGINEER R.C.E. 51152

FIELD CHANGES		
MARK	CHANGES	DATE
NO CHANGES	RESIDENT ENGINEER	DATE



SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: DJ  
DRAWN BY: DJ  
CHECKED BY: ESR  
RECOMMENDED BY: *[Signature]* 11/8/21  
APPROVED BY: *[Signature]* 11/8/21  
DATE

ALDER AVENUE				
CURB RETURN DETAILS				
FONTANA AREA				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S
JL 11641	H14978	1"=20'	8	13

FILE NO. 110650 040-050

11/8/21 11:06:50 AM - 11/8/21 11:06:50 AM - 11/8/21 11:06:50 AM - 11/8/21 11:06:50 AM



# TRAFFIC SIGNAL CONSTRUCTION NOTES:

- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ASSEMBLY POST (5ft-7inch) OR AS NEEDED TO ACCOMMODATE THE PROPER PEDESTRIAN PUSH BUTTON ASSEMBLY MOUNTING HEIGHT WITH A (9inchx12inch) SIGN ABOVE PUSH BUTTON. ANY EXCESS POLE HEIGHT ABOVE PEDESTRIAN PUSH BUTTON ASSEMBLY SHALL BE CUT OFF AND CAPPED AS DIRECTED BY THE ENGINEER PER THE CALTRANS STANDARD PLAN RSP ES-7A AND AS SHOWN ON PLAN. PUSH BUTTON POST SHALL BE INSTALLED ON CROSSWALK SIDE OF STANDARD.
- FURNISH AND INSTALL TYPE B PEDESTRIAN PUSH BUTTON ASSEMBLY WITH R10-3 SIGN (9inchx12inch) INCLUDING BRACKETS OR HARDWARE FOR 90 DEGREE INSTALLATION OF PEDESTRIAN PUSH BUTTON ASSEMBLY ON SINGLE POST PER THE CALTRANS STANDARD PLANS ES-5C (DETAIL B) AND RSP ES-7A. PUSH BUTTON SHALL BE INSTALLED ON CROSSWALK SIDE OF STANDARD.
- REMOVE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY ON THE EXISTING SIGNAL POLE. REMAINING HOLES SHALL BE CAPPED.
- FURNISH AND INSTALL 3-CONDUCTOR SIGNAL CABLE (3CSC) FROM EACH PEDESTRIAN PUSH BUTTON TO THE CONTROLLER ASSEMBLY.
- FURNISH AND INSTALL 2inch SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT FROM PEDESTRIAN PUSH BUTTON POST INTO EXISTING OR NEW PULL BOX AS SHOWN ON PLAN.
- FURNISH AND INSTALL NEW #6 TRAFFIC SIGNAL PULL BOX AS SHOWN ON PLAN AND PER THE CALTRANS STANDARD PLAN RSP ES-8A. ABANDON EXISTING IF APPLIED. THE TOP OF PULL BOX SHALL BE FLUSH WITH FINISHED GRADE.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING TRAFFIC SIGNAL PULL BOXES, EXISTING SIGNAL CONDUITS, EXISTING TRAFFIC SIGNAL POLES AND EXISTING CONTROLLER AND SERVICE CABINETS TO PROTECT IN PLACE OR REPLACE IF DAMAGED AS DIRECTED BY THE ENGINEER. ALL PROTECT IN PLACE EXISTING PULL BOXES SHALL BE FLUSH TO FINISHED GRADE.
- INSTALL COUNTY FURNISHED EMERGENCY VEHICLE PREEMPTION DETECTOR WITH INFRARED DETECTION AT MINIMUM. THE DETECTOR SHALL BE INSTALLED PER THE MANUFACTURE'S SPECIFICATIONS AND CALTRANS 2018 STANDARD PLAN RSP ES-4E.
- INSTALL COUNTY FURNISHED AUTOSCOPE VISION VIDEO VEHICLE DETECTION SYSTEM OR AS APPROVED BY THE TRAFFIC DIVISION. THE CAMERA SHALL BE INSTALLED ON THE SIGNAL MAST ARM AS SHOWN ON PLAN AND THE CALTRANS 2018 STANDARD PLAN ES-7R PER THE MANUFACTURER'S SPECIFICATIONS. SEE PROJECT SPECIAL PROVISIONS. THE VIDEO DETECTION DATA PROCESSING SHALL BE WITHIN THE CAMERA TO MAXIMIZE CABINET SPACE.
- REMOVE EXISTING VIDEO VEHICLE DETECTION SYSTEM CAMERA ASSEMBLY ON THE EXISTING LUMINAIRE MAST ARM. ANY REMAINING HOLES SHALL BE CAPPED.
- REPLACE EXISTING CONDUIT WITH NEW CONDUIT. ALL NEW CONDUIT SHALL BE MINIMUM 4inch SCHEDULE 80 ELECTRICAL GRADE PVC AT A MINIMUM 36inch DEPTH INCLUDING A 12inch SAND ZONE COVERING.
- REMOVE EXISTING EQUIPMENT AND EXISTING CONTROLLER CABINET. INSTALL COUNTY FURNISHED TYPE NEMA TS2-1 CONTROLLER ASSEMBLY INCLUDING COBALT CONTROLLER WITH TOUCH SCREEN OPTION, TYPE "R" CABINET WITH 16-CHANNEL MMU, UNINTERRUPTABLE POWER SUPPLY (UPS), NICKEL-ZINC BATTERIES, 1000 WATT MINIMUM BATTERY STORAGE, GPS RECEIVER FOR TIME REFERENCE AND APPURTENANT EQUIPMENT. THE INTERNAL CABINET WILL INCLUDE SLIDE OUT DRAWER AND LED LIGHTING. INSTALL COUNTY FURNISHED EMERGENCY VEHICLE PRE-EMPTION SYSTEM PER SPECIAL PROVISIONS. THE CONTROLLER CABINET AND FOUNDATION SHALL BE INSTALLED PER CALTRANS 2018 STANDARD PLAN ES-3B. FURNISH AND INSTALL GROUND ROD (8ft MINIMUM) INTO EARTH EXCLUDING CONCRETE FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION AS SHOWN ON THE PLAN. REFER TO SPECIFICATIONS FOR ADDITIONAL EQUIPMENT CRITERIA AND DETAILS.
- REMOVE EXISTING VIDEO VEHICLE DETECTION SYSTEM CAMERA ASSEMBLY ON THE EXISTING LUMINAIRE MAST ARM. INSTALL COUNTY FURNISHED AUTOSCOPE VISION VIDEO VEHICLE DETECTION SYSTEM OR AS APPROVED BY THE TRAFFIC DIVISION. THE CAMERA SHALL BE INSTALLED ON THE LUMINAIRE MAST ARM AS SHOWN ON PLAN AND THE CALTRANS 2018 STANDARD PLAN ES-7R PER THE MANUFACTURER'S SPECIFICATIONS. SEE PROJECT SPECIAL PROVISIONS. THE VIDEO DETECTION DATA PROCESSING SHALL BE WITHIN THE CAMERA TO MAXIMIZE CABINET SPACE.
- FURNISH AND INSTALL 2inch SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT FROM NEW CONTROLLER CABINET INTO EXISTING PULL BOX AS SHOWN ON PLAN.

## NOTE:

THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF EXISTING SIGNAL CONDUITS TO PROTECT IN PLACE OR REPLACE IF DAMAGED DUE TO CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION.

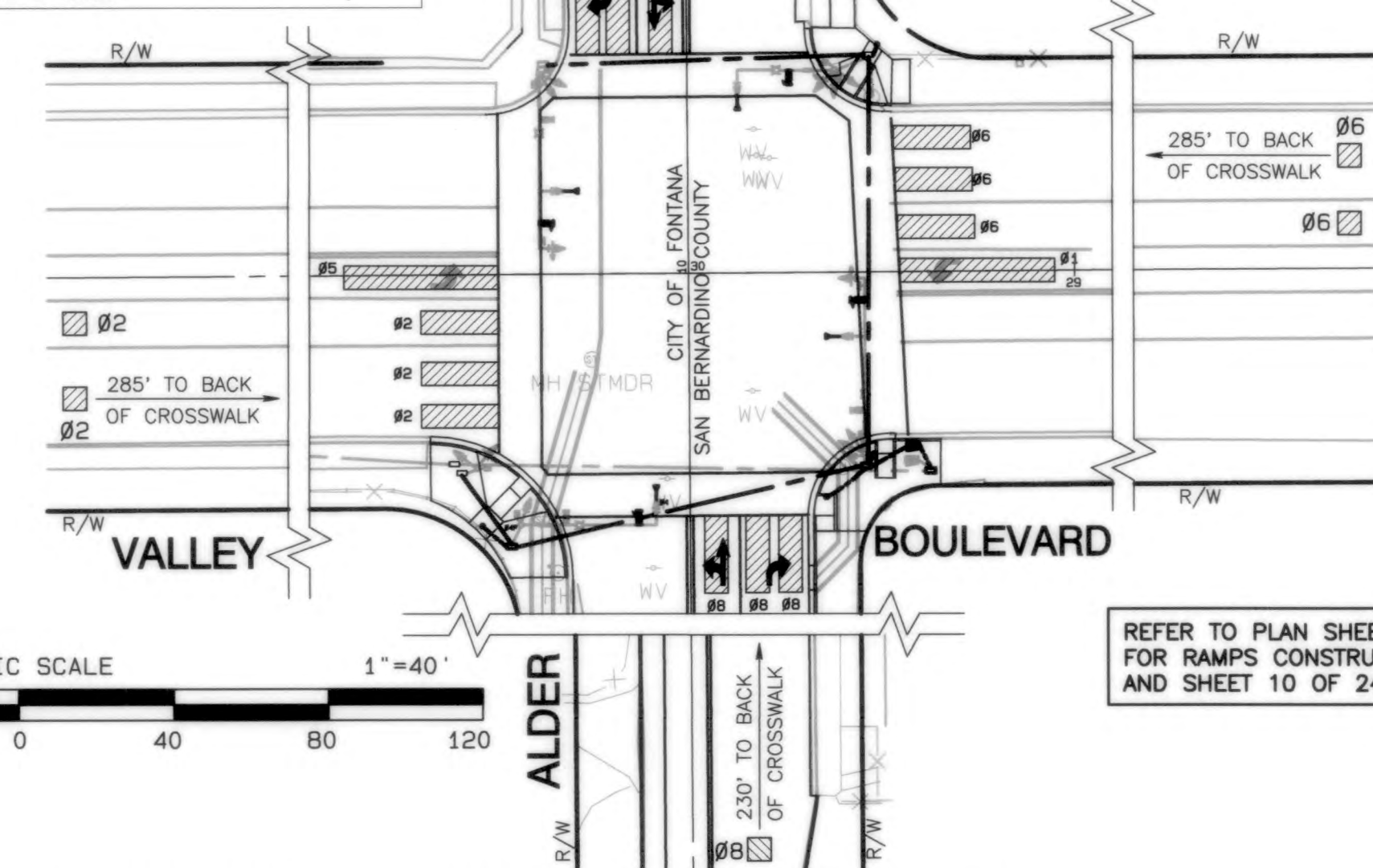
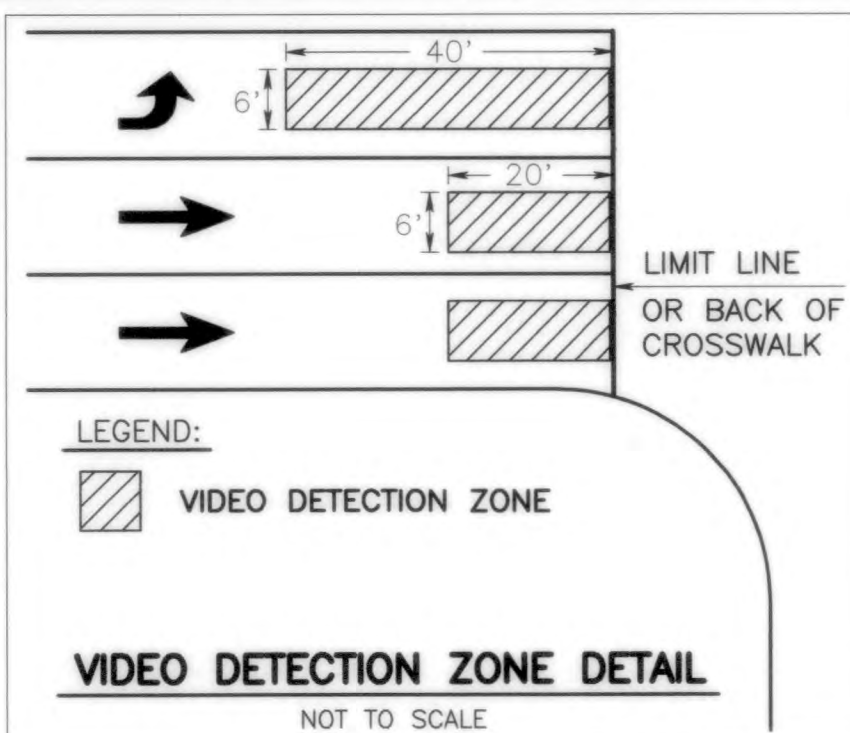
## CONDUCTOR AND CONDUIT TABLE

POLE	PHASE	CONDUIT RUN				
		1	2	3	4	5
SIGNAL CABLE	VEHICLE AND PEDESTRIAN	12CSC	9CSC	9CSC	9CSC	9CSC
	PED. PUSH BUTTON	4P,6P	1-1	2-1	1-1	2-1
	A	1,6,8,4P,6P	1	1	1	1
	B	5,6,8,6P,8P	1	1	1	1
	C	2,4,5,2P,8P	1	1	1	1
	D	4,4P	1	1	1	1
	E	1,2,2P	1	1	1	1
	F	6P,8P	2	2	2	2
	G	2P	1	1	1	1
	H	2P,4P	2	2	2	2
	I	8P	1	1	1	1
TOTAL		1	1	2	2	4

AWG SIZE	CIRCUIT	CONDUIT RUN				
#6	SERVICE	2	2	2	2	2
#10	LUMINAIRE	2	2	2	2	2
#10	STREET NAME SIGN	2	2	2	2	2
#8	SIGNAL COMMON WIRE BARE GROUNDING CONDUCTOR	1	1	1	1	1

VIDEO DETECTION	LEGEND	VIDEO CABLE	1	2	1	4
PREEMPTION CABLE	LEGEND	EMERGENCY VEHICLE DETECTOR	1	2	1	4
** CONDUIT SIZE (INCHES)		4	4	4	4	2-4
% FILLED		12%	23%	5%	13%	22%

\*\* ALL NEW CONDUIT SHALL BE MINIMUM 4inch SCHEDULE 80 ELECTRICAL GRADE PVC AT A MINIMUM 36inch DEPTH INCLUDING A 12inch SAND ZONE COVERING  
ALL CABLES AND CONDUCTORS SHALL BE NEW UNLESS SPECIFIED OTHERWISE

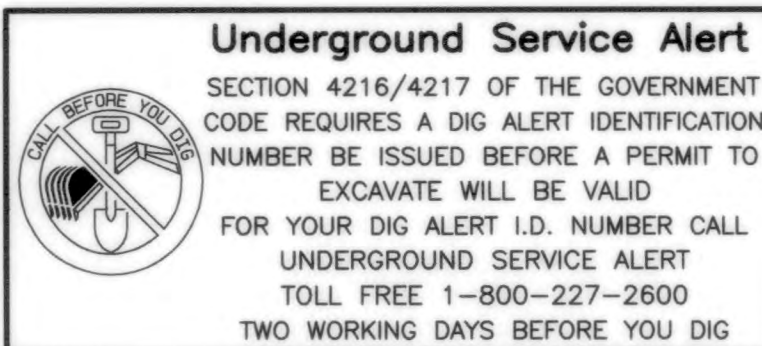


## SAN BERNARDINO COUNTY TRAFFIC SIGNAL GENERAL NOTES:

- TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA 2018 STANDARD SPECIFICATIONS (DATED 2018) SECTIONS 86(ELECTRICAL WORK) AND 87(ELECTRICAL SYSTEMS) INCLUDING LATEST 2018 REVISED STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2018.
- SIGNAL POLE LOCATIONS ARE APPROXIMATE.
- ALL PULL BOXES SHALL BE NUMBER 5 UNLESS OTHERWISE NOTED. THE TOP OF THE PULL BOXES SHALL BE FLUSH WITH FINISHED GRADE AS SHOWN ON THE CALTRANS 2018 STANDARD PLAN RSP ES-8A.
- PULL BOXES SHALL BE INSTALLED PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8A. AND SHALL NOT BE INSTALLED IN OR WITHIN A CURB ACCESS RAMP.
- PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC, SHALL BE TRAFFIC TYPE PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8B.
- PEDESTRIAN PUSH BUTTON SHALL BE WITH PLACARD R10-3 SIZE (9inchx12inch) AND PER THE CALTRANS 2018 STANDARD PLANS RSP ES-7A AND ES-5C (TYPE B).
- ALL SIGNAL AND LIGHTING STANDARD FOUNDATIONS SHALL BE ADJUSTED TO PROPOSED FINISHED GRADE.
- ALL WIRING AND CABLES SHALL BE NEW UNLESS OTHERWISE NOTED.
- ALL NEW CONDUIT SHALL BE MINIMUM 4inch SCHEDULE 80 ELECTRICAL GRADE PVC AT A MINIMUM 36inch DEPTH INCLUDING A 12inch SAND ZONE COVERING.
- LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POT-HOLE TO DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF ANY OBSTRUCTIONS. PHONE THE UNDERGROUND SERVICE ALERT AT (800) 227-2600, TWO WORKING DAYS BEFORE DIGGING.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY REPRESENTATIVE TO SCHEDULE A FIELD REVIEW WITH TRAFFIC DIVISION TO VERIFY THE LOCATION OF SIGNAL POLES, CONTROLLER CABINET, AND SERVICE CABINET.

POLE AND EQUIPMENT SCHEDULE														
POLE LOCATION		VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL		PEDESTRIAN PUSH BUTTON			L.E.D. LUMINAIRE	INTERIALLY ILLUMINATED STREET NAME SIGN				
RE	CE	"A"	"B"	MAST ARM	POLE	PHASE	MOUNTING	QUADRANT			ARROW	PHASE		
				EXISTING	2-MAS	SV-2-T	Ø4 Ø6	SP-2-T	WEST NORTH	➡ ➡	Ø4P Ø6P	250 WATT	Alder Ave	
				EXISTING	1-MAS	SV-3-T	Ø6 Ø8	SP-2-T	---	---	---	250 WATT	Valley Blvd	
				EXISTING	2-MAS	SV-2-T	Ø2 Ø8	SP-2-T	---	---	---	250 WATT	Alder Ave	
				EXISTING	1-MAS	SV-1-T	Ø4	SP-1-T	---	---	---	250 WATT	Valley Blvd	
				EXISTING	---	TV-2-T	Ø2	SP-1-T	---	---	---	---	---	
		2.7'	14.5'	---	---	---	---	---	SOUTH WEST	➡ ➡	Ø6P Ø8P	---	---	
		5.1'	2.5'	---	---	---	---	---	SOUTH	➡	Ø2P	---	---	
		13.5'	15.5'	---	---	---	---	---	NORTH EAST	➡ ➡	Ø2P Ø4P	---	---	
		4.5'	3'	---	---	---	---	---	EAST	➡	Ø8P	---	---	

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



CITY OF FONTANA, CALIFORNIA  
TRAFFIC SIGNAL MODIFICATION  
ALDER AVE

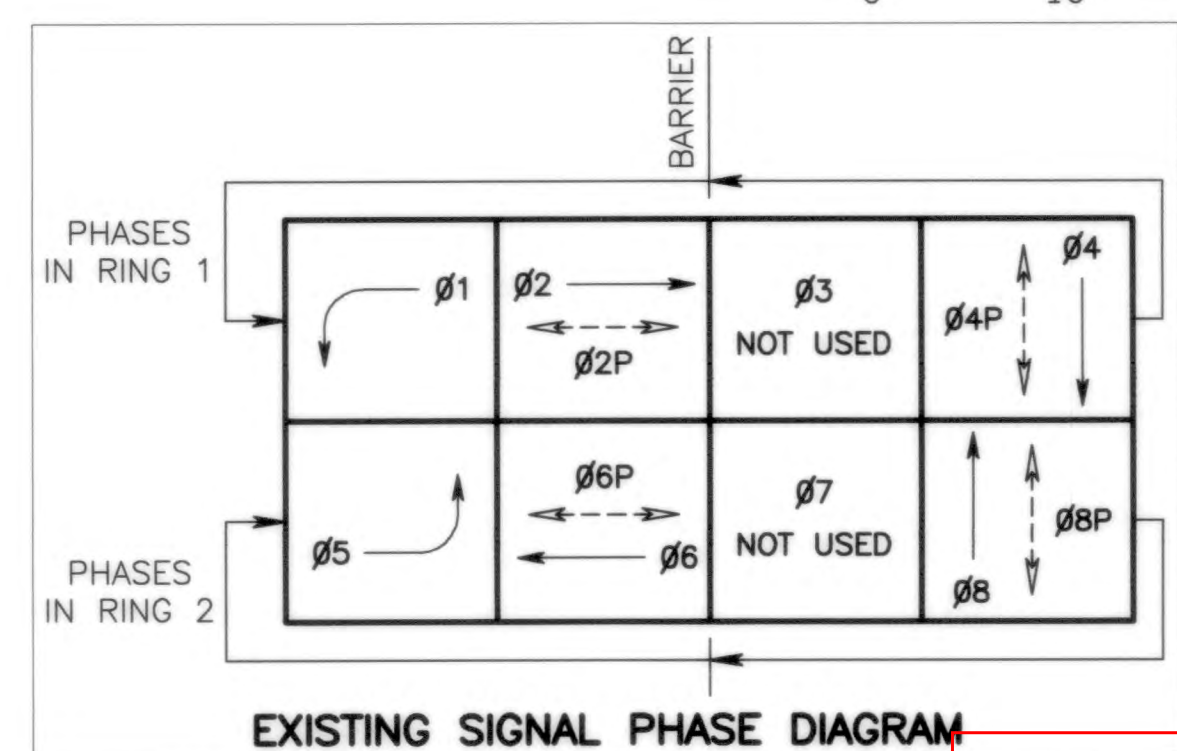
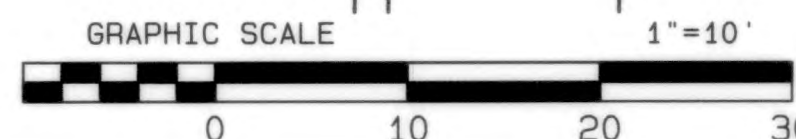
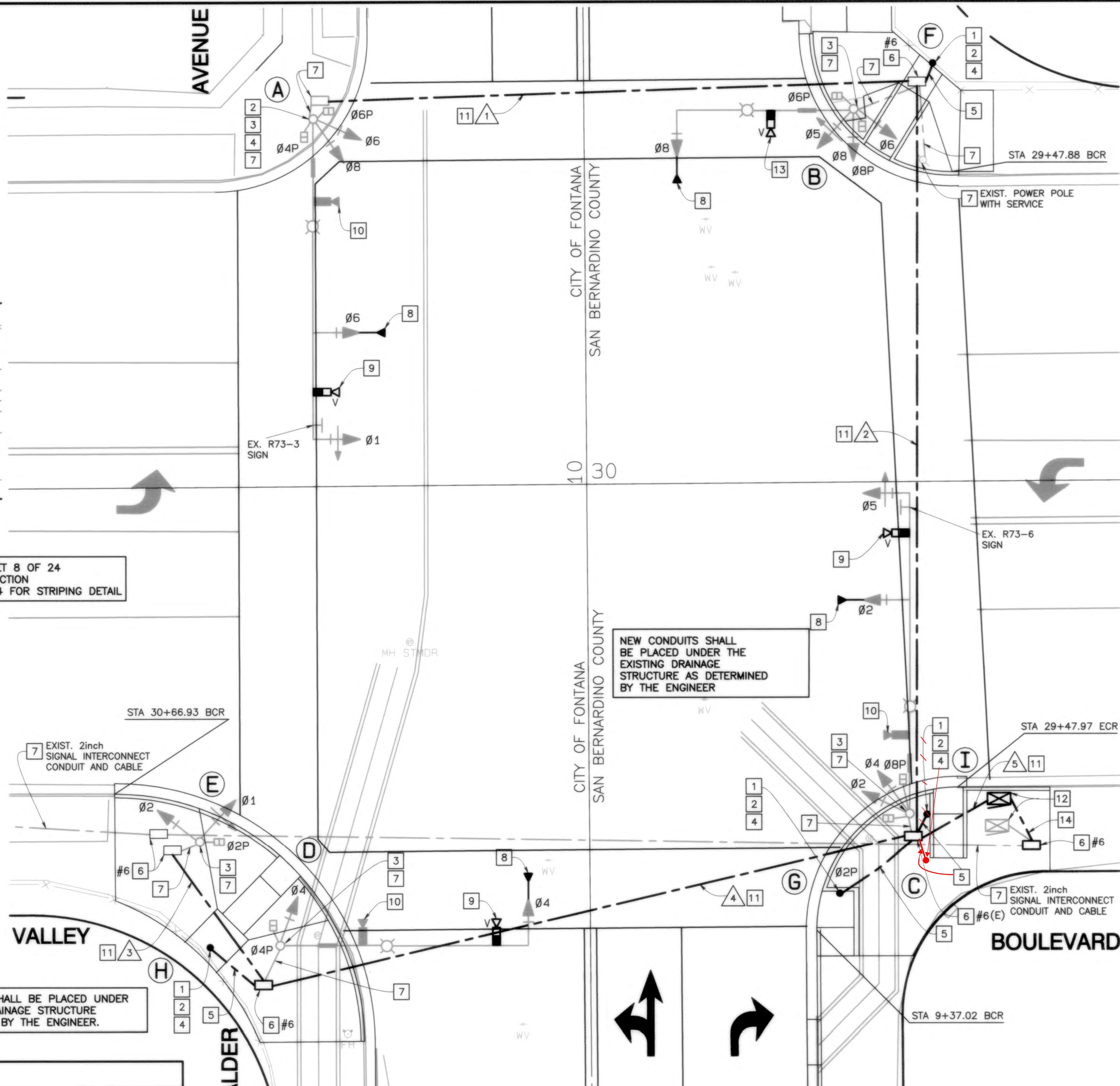
APPROVED BY: *[Signature]* 11.9.21  
DATE: 11.9.21  
CITY ENGINEER R.C.E. 51152

MARK	CHANGES	RESIDENT ENGINEER	DATE
NO CHANGES			
FIELD CHANGES			

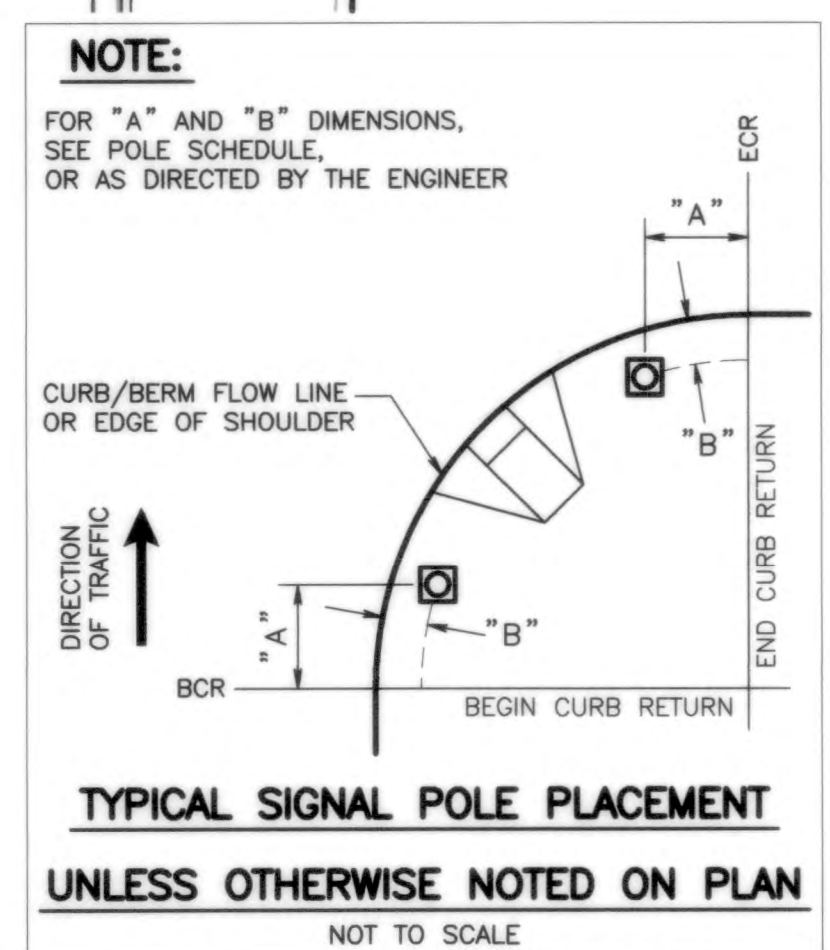


SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: J.H.C.	DRAWN BY: H.F.	CHECKED BY: J.J.	RECOMMENDED BY: NOEL CASTILLO, P.E. DEPUTY DIRECTOR TRANSPORTATION
SUBMITTED BY: <i>[Signature]</i>	DATE: 11.5.21	APPROVED BY: <i>[Signature]</i>	DATE: 11/9/21
JEREMY JOHNSON, P.E. ENGINEERING MANAGER		DAVID R. DOUBLET, M.S., P.E. ASSISTANT DIRECTOR	

ALDER AVENUE AT VALLEY BOULEVARD TRAFFIC SIGNAL MODIFICATION PLAN FONTANA AREA				
J.L. REF. JL11641	W.O. NO. H14978	SCALE AS SHOWN	SHEET NO. 12	TOTAL SH'TS. 13



Addendum #1



UNLESS OTHERWISE NOTED ON PLAN



TRAFFIC SIGNAL CONSTRUCTION NOTES:

- 1- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ASSEMBLY POST (5ft-7inch) OR AS NEEDED TO ACCOMMODATE THE PROPER PEDESTRIAN PUSH BUTTON ASSEMBLY MOUNTING HEIGHT WITH A (9inchx12inch) SIGN ABOVE PUSH BUTTON. ANY EXCESS POLE HEIGHT ABOVE PEDESTRIAN PUSH BUTTON ASSEMBLY SHALL BE CUT OFF AND CAPPED AS DIRECTED BY THE ENGINEER PER THE CALTRANS STANDARD PLAN RSP ES-7A AND AS SHOWN ON PLAN. PUSH BUTTON POST SHALL BE INSTALLED ON CROSSWALK SIDE OF STANDARD.
- 2- FURNISH AND INSTALL (2) TYPE B PEDESTRIAN PUSH BUTTON ASSEMBLIES WITH R10-3 SIGN (9inchx12inch) INCLUDING BRACKETS OR HARDWARE FOR 90 DEGREE INSTALLATION OF PEDESTRIAN PUSH BUTTON ASSEMBLIES ON SINGLE POST PER THE CALTRANS STANDARD PLANS ES-5C (DETAIL B) AND RSP ES-7A. PUSH BUTTON SHALL BE INSTALLED ON CROSSWALK SIDE OF STANDARD.
- 3- REMOVE EXISTING PEDESTRIAN PUSH BUTTON ASSEMBLY ON THE EXISTING SIGNAL POLE. REMAINING HOLES SHALL BE FITTED WITH A PLATE WELDED IN PLACE AND PAINTED TO MATCH.
- 4- FURNISH AND INSTALL 3-CONDUCTOR SIGNAL CABLE (3CSC) FROM EACH PEDESTRIAN PUSH BUTTON TO THE CONTROLLER ASSEMBLY.
- 5- FURNISH AND INSTALL 2inch RIDGID CONDUIT FROM PEDESTRIAN PUSH BUTTON POST INTO EXISTING OR NEW PULL BOX AS SHOWN ON PLAN.
- 6- PROTECT EXISTING PULL BOX IN PLACE AND ADJUST PULL BOX TO FINISHED GRADE PER CALTRANS STANDARD PLAN RSP ES-8A OR AS DIRECTED BY THE ENGINEER.
- 7- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING TRAFFIC SIGNAL PULL BOXES, EXISTING TRAFFIC SIGNAL CONDUITS, EXISTING TRAFFIC SIGNAL POLES AND EXISTING CONTROLLER AND SERVICE CABINETS TO PROTECT IN PLACE OR REPLACE IF DAMAGED AS DIRECTED BY THE ENGINEER. ALL PROTECT IN PLACE EXISTING PULL BOXES SHALL BE FLUSH TO FINISHED GRADE.

NOTE:

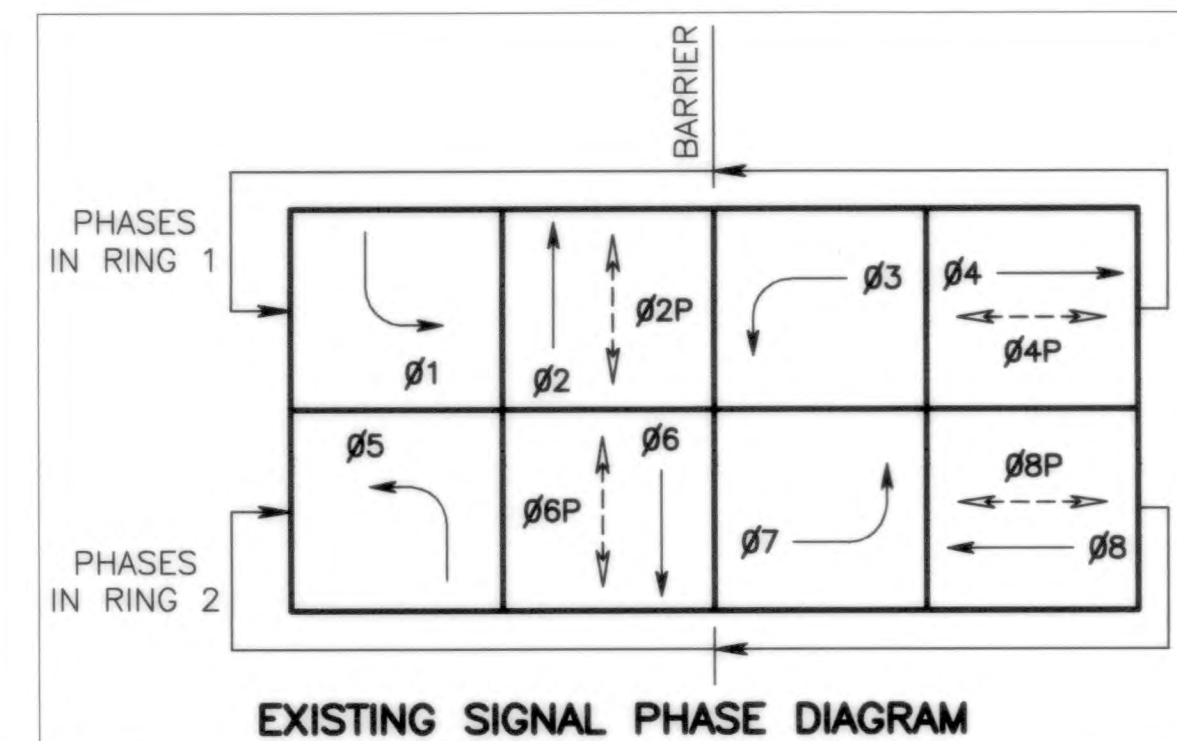
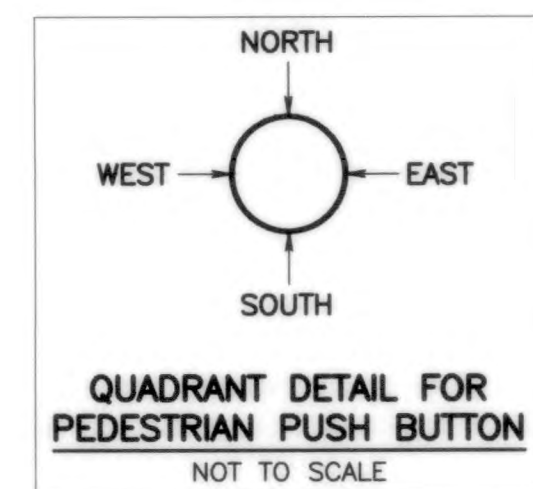
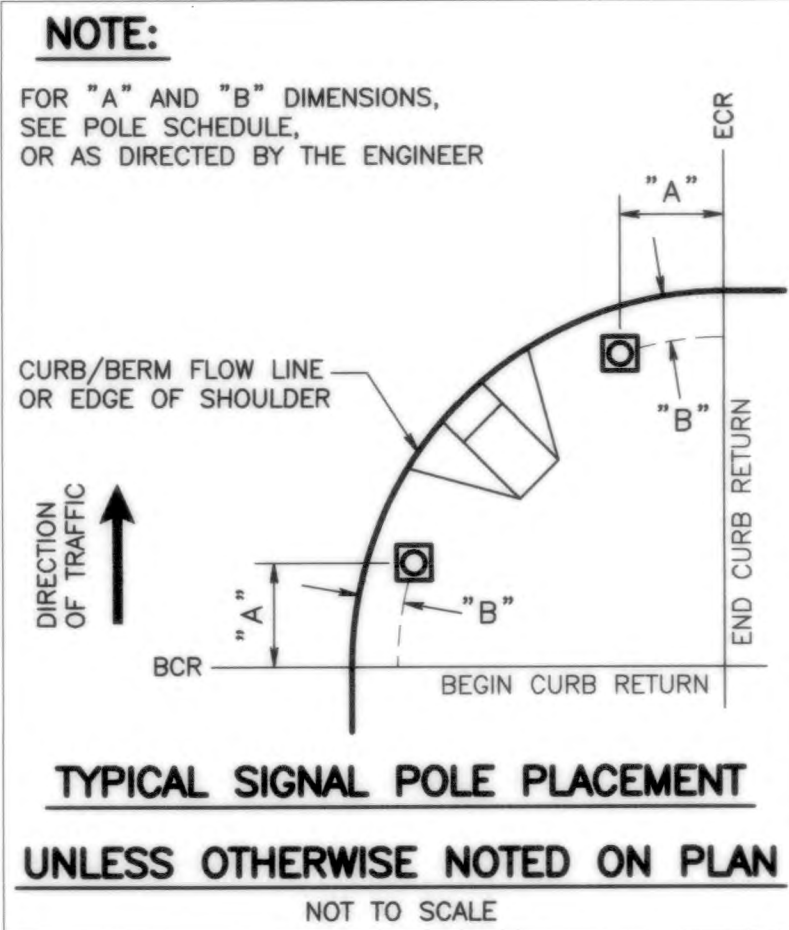
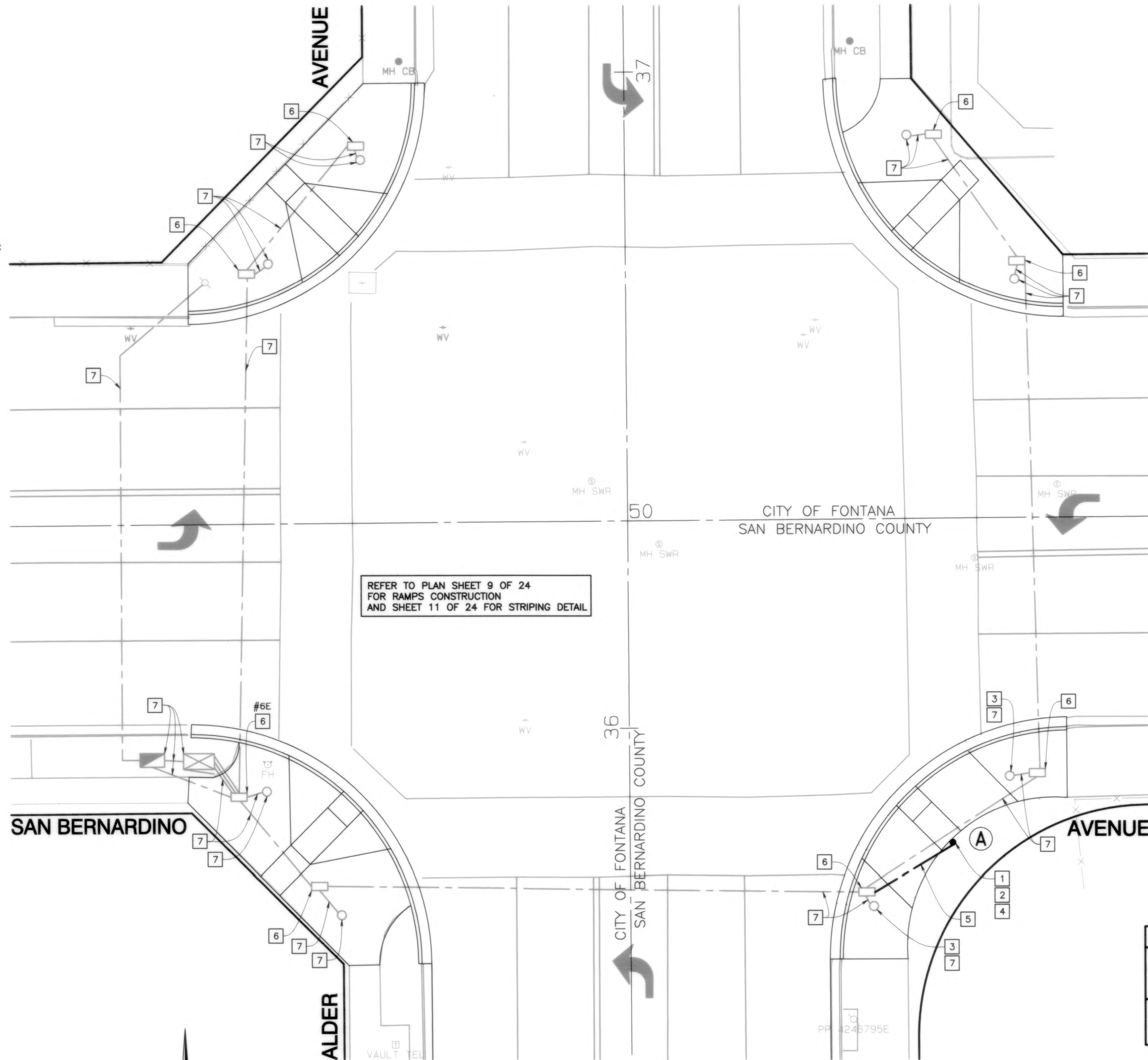
THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF EXISTING SIGNAL CONDUITS TO PROTECT IN PLACE OR REPLACE IF DAMAGED DUE TO CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL ELECTRONIC EQUIPMENT REQUIRED TO PROVIDE THE DESIRED SIGNAL OPERATION.

SAN BERNARDINO COUNTY TRAFFIC SIGNAL GENERAL NOTES:

- 1- TRAFFIC SIGNAL AND LIGHTING SHALL CONFORM TO THE STATE OF CALIFORNIA 2018 STANDARD SPECIFICATIONS (DATED 2018) SECTIONS 86(ELECTRICAL WORK) AND 87(ELECTRICAL SYSTEMS) INCLUDING LATEST 2018 REVISED STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2018.
- 2- SIGNAL POLE LOCATIONS ARE APPROXIMATE.
- 3- ALL PULL BOXES SHALL BE NUMBER 5 UNLESS OTHERWISE NOTED. THE TOP OF THE PULL BOXES SHALL BE FLUSH WITH FINISHED GRADE AS SHOWN ON THE CALTRANS 2018 STANDARD PLAN RSP ES-8A.
- 4- PULL BOXES SHALL BE INSTALLED PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8A. AND SHALL NOT BE INSTALLED IN OR WITHIN A CURB ACCESS RAMP.
- 5- PULL BOXES LOCATED IN ROADWAYS OR SHOULDER AREAS SUBJECT TO TRAFFIC, SHALL BE TRAFFIC TYPE PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8B.
- 6- PEDESTRIAN PUSH BUTTON SHALL BE WITH PLACARD R10-3 SIZE (9inchx12inch) AND PER THE CALTRANS 2018 STANDARD PLANS RSP ES-7A AND ES-5C (TYPE B).
- 7- ALL SIGNAL AND LIGHTING STANDARD FOUNDATIONS SHALL BE ADJUSTED TO PROPOSED FINISHED GRADE.
- 8- ALL WIRING AND CABLES SHALL BE NEW UNLESS OTHERWISE NOTED.
- 9- ALL NEW CONDUIT SHALL BE MINIMUM 4inch SCHEDULE 80 ELECTRICAL GRADE PVC AT A MINIMUM 36inch DEPTH INCLUDING A 12inch SAND ZONE COVERING.
- 10- LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF ANY OBSTRUCTIONS. PHONE THE UNDERGROUND SERVICE ALERT AT (800) 227-2600, TWO WORKING DAYS BEFORE DIGGING.
- 11- THE CONTRACTOR SHALL NOTIFY THE COUNTY REPRESENTATIVE TO SCHEDULE A FIELD REVIEW WITH TRAFFIC DIVISION TO VERIFY THE LOCATION OF SIGNAL POLES, CONTROLLER CABINET, AND SERVICE CABINET.

CITY OF FONTANA TRAFFIC SIGNAL GENERAL NOTES:

- 1- TRAFFIC SIGNAL, SIGNING AND STRIPING, AND LIGHTING SHALL CONFORM TO THESE PLANS, THE SPECIAL PROVISIONS, THE CITY OF FONTANA STANDARD DETAILS, THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS SECTION 86 (DATED 2018), STANDARD PLANS (DATED 2018) AND THE CALIFORNIA MUTCD (DATED 2014).
- 2- LOCATION OF ALL UNDERGROUND FACILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE. HAND DIG FOUNDATIONS UNTIL CLEAR OF ANY OBSTRUCTIONS. PHONE UNDERGROUND SERVICE ALERT AT (800) 227-2600, TWO (2) WORKING DAYS BEFORE DIGGING.
- 3- ALL PULL BOXES SHALL BE No. 6 AND CONDUIT SHALL BE 2-inch RIGID STEEL UNLESS OTHERWISE SHOWN.
- 4- CONTRACTOR SHALL MAKE APPLICATION FOR ELECTRIC SERVICE AND SCHEDULING WITH SOUTHERN CALIFORNIA EDISON COMPANY WELL IN ADVANCE OF NEED.
- 5- CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER FOR EXACT EQUIPMENT LOCATIONS PRIOR TO FINAL PLACEMENT. SEE ES-4C FOR POLE LOCATION DETAIL.
- 6- ALL REQUIRED CONSTRUCTION PERMITS SHALL BE OBTAINED FROM THE CITY OF FONTANA DEPARTMENT OF ENGINEERING PRIOR TO COMMENCEMENT OF WORK.
- 7- CONTRACTOR SHALL RELOCATE AND/OR REPLACE LANDSCAPING, SPRINKLERS, AND SIDEWALK AFFECTED BY THE CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
- 8- CONTROLLER CABINET SHALL NOT BE SUBJECTED TO WATER FROM SPRINKLERS. MODIFY SPRINKLERS SYSTEMS IF NECESSARY.
- 9- THE ALIGNMENT OF INTERCONNECT DUCTS SHALL BE AS STRAIGHT AS POSSIBLE. HOWEVER, WHEN CHANGES IN ALIGNMENT ARE NECESSARY, SWEEPS SHALL HAVE MINIMUM RADIUS OF 10 FEET.
- 10- ALL VEHICLE INDICATIONS SHALL BE 12-INCH AND HAVE L.E.D. SIGNAL MODULES. ALL PEDESTRIAN HEADS SHALL HAVE L.E.D. PEDESTRIAN MODULES EQUIPPED WITH COUNTDOWN TIMERS (SEE PROJECT SPECIAL PROVISIONS).
- 11- ANY EXISTING TRAFFIC SIGNALS AND LIGHTING SHALL REMAIN IN OPERATION UNTIL REPLACED WITH NEW CONSTRUCTION.
- 12- CONTRACTOR TO FURNISH ALL EQUIPMENT, MATERIALS, AND HARDWARE TO CONSTRUCT THE TRAFFIC SIGNAL AND LIGHTING AS SHOWN ON THE PLAN, EXCEPT AS NOTED CITY FURNISHED OR LISTED AS CITY PROVIDED IN THE PROJECT SPECIAL PROVISIONS.
- 13- CONTRACTOR SHALL REFER TO THE CITY ENGINEER IN THE EVENT OF A CONFLICT OR POTENTIAL CONFLICT WITH THESE PLANS AND, OR SPECIFICATIONS FOR THIS PROJECT.
- 14- WHERE TRAFFIC SIGNAL STREET CROSSING CONDUIT ARE NOT INSTALLED USING THE BORING METHOD, TRENCH REPAIRS SHALL BE PER PROJECT SPECIAL PROVISIONS, SECTION E.
- 15- TRAFFIC SIGN DIMENSIONS, COLOR, AND LETTERING SHALL CONFORM TO THE LATEST CALTRANS SIGN SPECIFICATIONS SHEETS. SIGN CODES SHOWN HEREON ARE TO CONFORM TO 2014 CALIFORNIA MUTCD CODES. TRAFFIC SIGN SIZE SHALL BE FOR CONVENTIONAL ROADWAYS UNLESS OTHERWISE SHOWN ON THE PLAN.



POLE AND EQUIPMENT SCHEDULE						
POLE NO.	STANDARD		POLE LOCATION		PEDESTRIAN PUSH BUTTON	
	TYPE	HEIGHT	"A"	"B"	QUADRANT	PHASE
(A)	PEDESTRIAN PUSH BUTTON ASSEMBLY POST (NEW)	5ft-7in	17.5ft	9.5ft	NORTH WEST	ø4P ø2P

Addendum #1

**Underground Service Alert**  
SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG

CITY OF FONTANA, CALIFORNIA  
TRAFFIC SIGNAL MODIFICATION  
ALDER AVE

APPROVED BY: *[Signature]* 11.8.21  
CITY ENGINEER DATE R.C.E. 51152

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY

MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE

**FIELD CHANGES**

REGISTERED PROFESSIONAL ENGINEER  
JEREMY DALE JOHNSON  
C91246  
CIVIL  
STATE OF CALIFORNIA

SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: J.H.C. DRAWN BY: H.F. CHECKED BY: J.J. RECOMMENDED BY: NOEL CASTILLO, P.E. 11/8/21  
DEPUTY DIRECTOR TRANSPORTATION

SUBMITTED BY: *[Signature]* 11.5.21 APPROVED BY: DAVID R. DOUBLET, M.S., P.E. 11/9/21  
ENGINEERING MANAGER ASSISTANT DIRECTOR

**ALDER AVENUE**  
AT SAN BERNARDINO AVENUE  
TRAFFIC SIGNAL MODIFICATION PLAN  
FONTANA AREA

J.L. REF. W.O. NO. SCALE SHEET. NO. TOTAL SHT'S.  
JL11641 H14978 1" = 10' 13 13



Bidder: \_\_\_\_\_

Project: **ALDER AVE**

W.O.#: **H14978**

Limits: **0.08M SOUTH TAYLOR STREET TO SAN  
BERNARDINO AVE**

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
1	50,000	F.A.	Supplemental Work (Unforeseen Differing Site Conditions and Utility Conflicts)	\$ 1.00	\$ 50,000.00
2	1	L.S.	Prepare Final Storm Water Pollution Control Plan (SWPPP)	\$	\$
3	1	L.S.	Water Pollution Control Program	\$	\$
4	1	L.S.	Mobilization	\$	\$
5	1	L.S.	Traffic Control System	\$	\$
6	7	EA.	Portable Changeable Message Sign	\$	\$
7	2,640	L.F.	Remove Asphalt Concrete Dike	\$	\$
8	590	S.Y.	Remove Asphalt Concrete Surfacing	\$	\$
9	19,300	S.Y.	Pulverize Existing Asphalt Concrete Surfacing	\$	\$
10	670	S.Y.	Remove Concrete (Cross Gutter, Sidewalk, Ramp, Spandrel & Driveway)	\$	\$
11	480	L.F.	Remove Concrete (Curb and Gutter)	\$	\$
12	34	L.F.	Remove Traffic Stripe	\$	\$
13	185	S.F.	Remove Pavement Marking	\$	\$
14	3	EA.	Reset Roadside Sign	\$	\$
15	4	EA.	Adjust Frame and Cover To Grade	\$	\$
16	680	S.Y.	Cold Plane Asphalt Concrete Pavement	\$	\$
17	1	L.S.	Clearing and Grubbing	\$	\$
18	1	L.S.	Remove Tree, Stumps & Down Trees	\$	\$
19	1	L.S.	Develop Water Supply	\$	\$
20	4,100	C.Y.	Export Pulverized/Native Material	\$	\$
21	1	L.S.	Finishing Roadway	\$	\$
22	19,800	S.Y.	2% Cement Treated Base (0.35' Thk & 0.40' Thk)	\$	\$
23	5,460	TON	Asphalt Concrete (Type A)	\$	\$
24	2,950	TON	Asphalt Concrete (Type G Rubberized)	\$	\$
25	2,575	L.F.	Place Asphalt Concrete Dike	\$	\$
26	520	S.Y.	Place Asphalt Concrete (Miscellaneous Area)	\$	\$
27	6	C.Y.	Minor Concrete (Minor Structure Outlet Cover)	\$	\$
28	110	C.Y.	Minor Concrete (Spandrel, Cross Gutters, Ramps, Sidewalks and Concrete Driveways)	\$	\$
29	35	C.Y.	Minor Concrete (Curb, Gutter and Retaining Curb)	\$	\$
30	6	EA.	Roadside Sign (Metal Post)	\$	\$



Bidder: \_\_\_\_\_

Project: **ALDER AVE**

W.O.#: **H14978**

Limits: **0.08M SOUTH TAYLOR STREET TO SAN  
BERNARDINO AVE**

Item No.	Approx. Quant.	Meas. Unit	Item Description	Unit Price	Total
31	14	S.Y.	Rock Treatment	\$	\$
32	182	S.F.	Curb Ramp Detectable Warning Surface	\$	\$
33	1	EA	Frame and Grate	\$	\$
34	1	EA.	Manhole Frame and Cover	\$	\$
35	1	LS	Steel Angle Support Bolt and Angle Anchor	\$	\$
36	1	EA.	Object Marker (Type L-1) (CA)(OM2-2V)	\$	\$
37	20	L.F.	Tubular Handrailing	\$	\$
38	2,366	L.F.	Thermoplastic 6" Traffic Stripe	\$	\$
39	1,278	L.F.	Thermoplastic 8" Traffic Stripe	\$	\$
40	2,459	S.F.	Thermoplastic Pavement Marking	\$	\$
41	3,180	L.F.	Thermoplastic Traffic Double 6" Yellow Stripe	\$	\$
42	5	EA.	Pavement Marker (Retroreflective-Blue)	\$	\$
43	389	EA.	Pavement Marker (Retroreflective-Type D, G & H)	\$	\$
44	1	L.S.	Signal and Lighting	\$	\$
45	20	EA.	Potholing Utility	\$	\$

**PROJECT TOTAL: \$**