**INDIVIDUALS WARNING:** ALL INTERESTED IN BIDDING ON PROJECT MUST OBTAIN THE PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED CLERK OF THE BOARD'S ON THE WFBSITF FOR BIDDING ON PROJECT.

# SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS



# TRANSPORTATION

PLANS FOR CONSTRUCTION ON

EL RIVINO ROAD AND AGUA MANSA ROAD

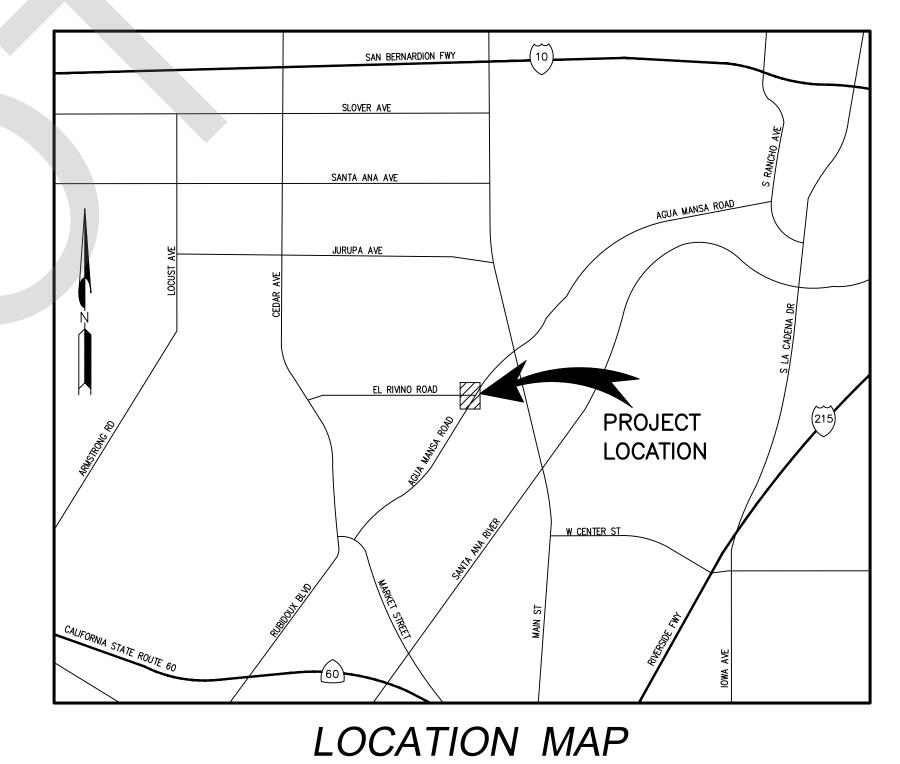
AT THE INSTERSECTION OF

# EL RIVINO ROAD AND AGUA MANSA ROAD

WORK ORDER NO. H15166

ROAD NO. 321100-030 107650-010

LENGTH = 0.18 MILES



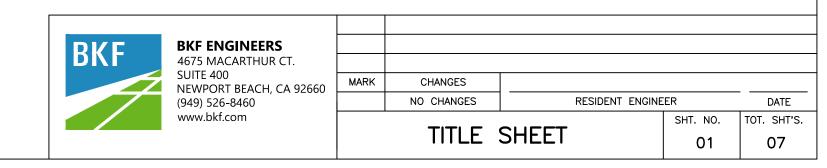
**SAN BERNARDINO COUNTY** 

APPROVED BY:

NOEL CASTILLO, P.E., DIRECTOR OF PUBLIC WORKS R.C.E. 78044

ILE NO. 321100-030 107650-01

NOT TO SCALE



TYPICAL SECTIONS

IMPROVEMENT PLAN CONSTRUCTION DETAILS

SIGNING AND STRIPING PLAN

TRAFFIC SIGNAL PLAN

THE FOLLOWING SPECIAL DRAWINGS AND COUNTY STANDARDS ARE ATTACHED TO THE SPECIAL PROVISIONS:

119 203A

TO BE SUPPLEMENTED BY THE FOLLOWING CALTRANS STANDARD PLANS DATED 2018:

A20D A24B A24D A24E ES-3B ES-4E DETAIL B ES-7N RSP ES-2E RSP ES-4B DETAIL B RSP ES-7B RSP ES-8A RSP ES-8B RS4 TO BE SUPPLEMENTED BY THE FOLLOWING CALTRANS STANDARD PLANS DATED 2015:

RSP T9 RSP T10 T11

TO BE SUPPLEMENTED BY THE FOLLOWING CALIFORINIA MUTCD STANDARD PLANS DATED 2014:

116

FIG 2A-2(CA) FIG 6H-28 FIG 6H-29 SEC 6D.01 SEC 6D.02 FIG 3B-102(CA)

THIS PROJECT REQUIRES A CONTRACTOR'S LICENSE CLASS "A"

# GENERAL NOTES

- U. THE FACT THAT ANY UTILITY FACILITY IS SHOWN OR NOT SHOWN UPON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY UNDER SECTION 5-1.36 C "NON-HIGHWAY FACILITIES" OF THE CALTRANS STANDARD SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, PURSUANT THERETO, TO ASCERTAIN THE LOCATION OF ANY UTILITY FACILITY WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF THE CONTRACTOR'S OPERATIONS.
- 1. ALL STATIONING NOTES ON PLAN REFER TO THE CL AS SHOWN ON PLAN.
- 2. DIMENSIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE CALTRANS STANDARD SPECIFICATIONS.
- 3. ALL PAVEMENT WIDTH DIMENSIONS SHOWN ON THE PLANS ARE TO THE EDGE OF
- PAVEMENT OR TO THE TOP OF CURB, UNLESS OTHERWISE NOTED. 4. TRANSITIONS AND WARPING SHALL BE AS SHOWN AND AS DETERMINED BY THE ENGINEER.

### **BENCHMARK:**

ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1988, DERIVED FROM GPS OBSERVATION AND BASED ON NAD83(2011), EPOCH 2017.50, ELLIPSOID HEIGHTS AS PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER AND THE NGS GEOID MODEL 18.

### BASIS OF BEARINGS:

THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, EPOCH 2017.50, IN ACCORDANCE WITH CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES RELATIVE TO CALIFORNIA SPATIAL REFERENCE NETWORK STATION RTHS. DISTANCES ARE GRID BASED. DIVIDE BY A COMBINED SCALE FACTOR OF 0.99996056 TO OBTAIN GROUND DISTANCES. VALUES SHOWN BELOW IN THE TABLE ARE IN ITRF 2014.

STATION	LATITUDE	LONGITUDE	HEIGHT (m)
RTHS	34°05'20.944893"	-117°21'12.014359"	328.6573
SIGMA (mm)	2.184	2.222	6.099

SAN BERNARDINO COUNTY TRAFFIC CONTROL GENERAL NOTES

- 1. ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- 2. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH
- THE CALTRANS 2018 STANDARD PLANS (DATED MAY 31, 2018).

3. ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT.

- 4. ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT:
- A. STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS) RETROREFLECTIVE SHEETING.
- B. "NO PARKING" SIGNS SHALL BE SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
- C. SCHOOL SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) REFLECTIVE SHEETING.
- D. STREET NAME MARKERS SHALL BE DIAMOND GRADE (FHWA TYPE IX) REFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
- E. CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE REFLECTIVE SHEETING.
- 5. ALL DELINEATORS, CHANNELIZERS, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
- 6. SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(a) AND 303(b).
- 7. ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING. GRINDING. OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- 8. ALL CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- 9. ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECTS (I.E. CATCH BASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCD LATEST EDITION.
- 10. ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STOP, STOP LIMIT LINE, AND CROSSWALK PAVEMENT MARKINGS) NOT SHOWN ON PLANS, IF REMOVED/OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- 11. THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIVISION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

#### ABBREVIATIONS LEGEND:

- AB = AGGREGATE BASE
- = ASPHALT CONCRETE
- AM = AGUA MANSA
- = BEGIN CURVE BDR = BEGIN OF DIKE RETURN
- BEG = BEGINNING CA = CALIFORNIA
- C&G = CURB AND GUTTERCONC = CONCRETE
- CONST = CONSTRUCTION
- CL = CENTER LINE
- DWG = DRAWING
- = EAST
- EC = END OF CURVE EDR = END OF DIKE RETURN
- = EXISTING GRADE
- ELEC = ELECTRICAL ER = EL RIVINO
- EP = EDGE OF PAVEMENT
- = EXISTING
- = FINISHED GRADE
- = FLOWLINE
- = FINISHED SURFACE
- HMA = HOT MIX ASPHALT LG = LIP OF GUTTER
- = LEFT
- N = NORTH
- NTS = NOT TO SCALE PCC = POINT OF COMPOUNDING CURVE
- PCC = PORTLAND CEMENT CONCRETE
- PCR = POINT OF REVERSING CURVE
- = POINT OF INTERSECTION PVMT = PAVEMENT
- = RADIUS
- R&R = REMOVE AND REPLACE
- = REMOVE
- = ROAD
- = RIGHT
- R/W = RIGHT OF WAY
- SBC = SAN BERNARDINO COUNTY
- SC = SAW CUT
- SCE = SOUTHERN CALIFORNIA EDISON
- SCG = SOUTHERN CALIFORNIA GAS
- SDCB = STORM DRAIN CATCH BASIN
- SDMH = STORM DRAIN MANHOLE
- SHT = SHEET
- = STREET
- STA = STATION
- STD = STANDARD
- SUR = SURVEYTD = TOP OF DIKE
- TYP = TYPICAL
- VAR = VARIES
- WV = WATER VALVE
- WVWD = WEST VALLEY WATER DISTRICT

#### PAVEMENT LEGEND:

SLURRY SEAL

NEW STRUCTURAL PAVEMENT PCC CONCRETE

FULL DEPTH HMA

0.2' COLD PLANE & OVERLAY

#### EXISTING UNDERGROUND UTILITY LEGEND

COMMUNICATION LINE SEWER MAIN LINE STORM DRAIN LINE WATER LINE

#### CONSTRUCTION NOTES:

GAS LINE

- PROTECT IN PLACE
- SAWCUT AND REMOVE AC DIKE (1' OFF EP) INCLUDING THE PAVEMENT PER DETAIL ON THIS SHEET
- PLACE ASPHALT CONCRETE DIKE PER DETAIL ON THIS SHEET
- SAWCUT AND REMOVE AC MEDAN (1' OFF EP). EXCAVATE TO
- A DEPTH OF 1.4' BELOW FG
- PLACE 6" CURB AND GUTTER PER SBC STD PLAN 116
- COLD PLANE 0.2' THICK OF EXISTING ASPHALT CONCRETE.
- PLACE 0.2' HMA TYPE A OVERLAY PLACE 0.75' HMA TYPE A (PG 70-10) OVER 0.65' CLASS II
- AB (3/4") ROADWAY SECTION SAWCUT AND REMOVE EXISTING AC PAVEMENT SECTION.
- EXCAVATE TO A DEPTH OF 1.4' BELOW FG
- PLACE LOCAL DEPRESSION PER SBC STD PLAN 203A

PLACE CROSS GUTTER PER SBC STD PLAN 119(MOD)

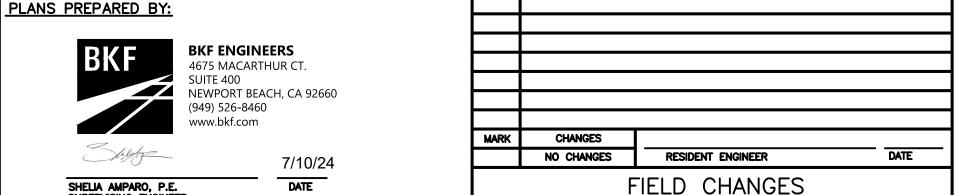
- ADJUST TO GRADE
- APPLY CRACK SEAL AND SLURRY SEAL (TYPE II)

## <u>STRIPING & SIGNING CONSTRUCTION NOTES:</u>

- PAINT 6" DASHED WHITE LANE LINE AND PAVEMENT MARKERS PER
- 2018 CALTRANS STD PLAN NO. A20A, DETAIL 12. PAINT 6" SOLID WHITE LANE LINE PER 2018 CALTRANS STD
- PLAN NO. A20B, DETAIL 27B.
- PAINT 8" WHITE CHANNELIZING LINE PER 2018 CALTRANS STD PLAN NO. A20D, DETAIL 38.
- PAINT 6" DOUBLE SOLID YELLOW LINES AND PAVEMENT MARKERS PER 2018 CALTRANS STD PLAN NO. A20A, DETAIL 22.
- PAINT 6" TWO WAY LEFT TURN STRIPE AND PAVEMENT MARKERS PER
- 2018 CALTRANS STD PLAN NO. A20B, DETAIL 32.

PAINT 12" WHITE LIMIT LINE PER 2018 CALTRANS STD PLAN NO. A24E

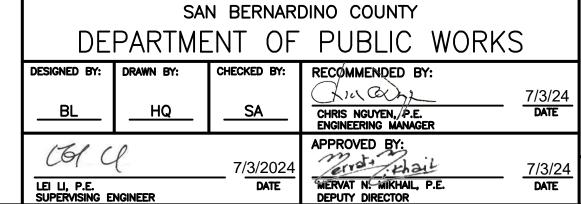
- PAINT 12" SOLID WHITE HATCH MARKING @ 45° 50' SPACING
- PAINT PAVEMENT MARKING PER 2018 CALTRANS STD PLAN NO. A24D, TYPE PER PLAN.
- PAINT 6" SOLID WHITE LINE AND PAVEMENT MARKER PER DETAIL A
- PAINT 6" MEDIAN STRIPE AND PAVEMENT MARKERS PER 2018 CALTRANS STD PLAN NO. A20B, DETAIL 29.
- PAINT PAVEMENT MARKING ARROW PER 2018 CALTRANS STD PLAN NO. A24A, A24B TYPE PER PLAN.
- EXISTING SIGN/MARKER TO REMAIN
- REMOVE AND SALVAGE EXISTING SIGN(S) AND EXISTING POST
- FURNISH AND INSTALL NEW SIGN(S) ON NEW POST PER SAN BERNARDINO COUNTY STD PLAN NO. 303 AND 303B AND CA
- MUTCD 2014, FIG 2A-2(CA)
- RELOCATE SOLAR FLASHING BEACON



DATE

SHELIA AMPARO, P.E. SUPERVISING ENGINEER





ROAD INTERSECTION IMPROVEMENT GENERAL AND CONSTRUCTION NOTES

AS SHOWN

EL RIVINO ROAD AT AGUA MANSA

H15166

