

WARNING: ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL 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 ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING ON THIS PROJECT.

INDEX OF SHEETS

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- 9 STRIPING PLAN-RECHE CANYON ROAD (STA.17+27.00-STA.43+00.00)
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STRIPING PLAN-RECHE CANYON ROAD (STA.10+00.00-STA.21+00.00)
- 11 STRIPING PLAN-OLIVE STREET (STA.10+00.00-STA.35+24.00)
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- 13 STRIPING PLAN-STEVENS STREET AND CYPRESS AVENUE
- 14 STRIPING PLAN-VALLEY BOULEVARD (STA.3+09.00-STA.24+02.00)
- 15 STRIPING PLAN-RANCHO AVENUE (STA.11+79.00-STA.24+70.00)
STRIPING PLAN-PRADO LANE (STA.10+00.00-STA.13+54.00)
STRIPING PLAN-WESTWOOD STREET (STA.10+18.00-STA.18+53.00)
- 16 STRIPING PLAN-AGUA MANSA ROAD (STA.5+00.00-STA.37+00.00)
- 17 STRIPING PLAN-AGUA MANSA ROAD (STA.37+00-STA.37+27.00)
STRIPING PLAN-LATHAM STREET, WALNUT COVE, F STREET, JACKSON STREET
G STREET, KELLY LANE, GRAND AVENUE, AND H STREET

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

109 (MODIFIED)	110 (MODIFIED)	115 (MODIFIED)
116	119	203B
303A	303B	

*TO BE SUPPLEMENTED BY THE FOLLOWING 2018 CALTRANS STANDARD PLANS

T3A	A20A	A24D
T3B	A20B	A24E
T9	A20C	A24F
T10	A20D	RSP A88A
T11	A24A	RSP ES-5B
T12	A24C	

*TO BE SUPPLEMENTED BY THE FOLLOWING 2021 STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)

120-2
606-4

*THESE STANDARDS MAY BE MODIFIED AS DIRECTED BY THE COUNTY REPRESENTATIVE. CONTRACTOR SHALL CONSULT WITH THE COUNTY ENGINEER, AND RECEIVE APPROVAL, PRIOR TO CONSTRUCTION.

THIS PROJECT REQUIRES A CONTRACTOR LICENSE CLASS "A", C12

BASIS OF COORDINATES:

JL#12068 WO# H15132

DISTANCES & COORDINATES ARE GROUND.

COMBINATION FACTOR = 0.99994785

BASIS OF BEARINGS:

CCS83 ZONE 5, NAD-83(2011) EPOCH 2010.0

TO OBTAIN GRID COORDINATES:

SCALE PROJECT @ POINT #1 (0.99994785)

BENCHMARK:

FD 2 1/2 BRASS DISK IN SIDEWALK AT NW CORNER

GRAND AVE & OLIVE ST STAMPED CITY OF

COLTON BM #406D PER CSFB 4049/844.

NGVD-29 ELEVATION = 1046.71'

SAN BERNARDINO COUNTY TRAFFIC CONTROL-GENERAL NOTES

- NOTE 1: ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH CALIFORNIA MUTCD LATEST EDITIONS.
- NOTE 2: ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE CALTRANS 2018 STANDARD PLANS (DATED MAY 31, 2018).
- NOTE 3: ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT.
- NOTE 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 OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
 - C. SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.
 - D. STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
 - E. CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
- NOTE 5: ALL DELINEATORS, CHANNELIZER, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
- NOTE 6: SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(a) and 303(b).
- NOTE 7: ALL CONFLICTING STRIPINGS AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING OR AS DIRECTED BY THE COUNTY REPRESENTATIVE.
- NOTE 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 THE COUNTY REPRESENTATIVE.
- NOTE 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.
- NOTE 10: ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET 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.
- NOTE 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.

LEGEND:

ROAD LEGEND

- CITY LIMIT
- 0.12" MILL, APPLY 3/8" RUBBERIZED CHIP SEAL AS SAMI, PLACE 0.08" HIRAP F TYPE.
- 0.25" MILL APPLY 0.05" THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20" OVERLAY WITH 3/4" TYPE G RHMA.
- 0.30" MILL, CONSTRUCT 0.06" LEVELING COURSE, 3/8" PG 64-10 HMA, APPLY 0.04" THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20" OVERLAY WITH 3/4" TYPE G RHMA.
- CRACK SEAL & 2 COATS LIQUID ROAD "SEAL MASTER"
- SLURRY SEAL - 2 COATS LIQUID ROAD "SEAL MASTER"
- SLURRY SEAL - 3 COATS LIQUID ROAD "SEAL MASTER"
- SEE ROAD LIST D TABLE (AGUA MANSA ROAD) ON SHEET 6 AND CONSTRUCTION NOTE 2G
- SEE ROAD LIST D TABLE (AGUA MANSA ROAD) ON SHEET 6 AND CONSTRUCTION NOTE 2H
- SEE ROAD LIST D TABLE (AGUA MANSA ROAD) ON SHEET 6 AND CONSTRUCTION NOTE 2I
- CURB RAMP

UNDERGROUND UTILITY LEGEND

- GAS LINE G
- SEWER MAIN LINE S
- WATER LINE W
- ELECTRIC LINE E
- TELEPHONE LINE T
- DATA/CABLE LINE TF

CONSTRUCTION MATERIAL LEGEND

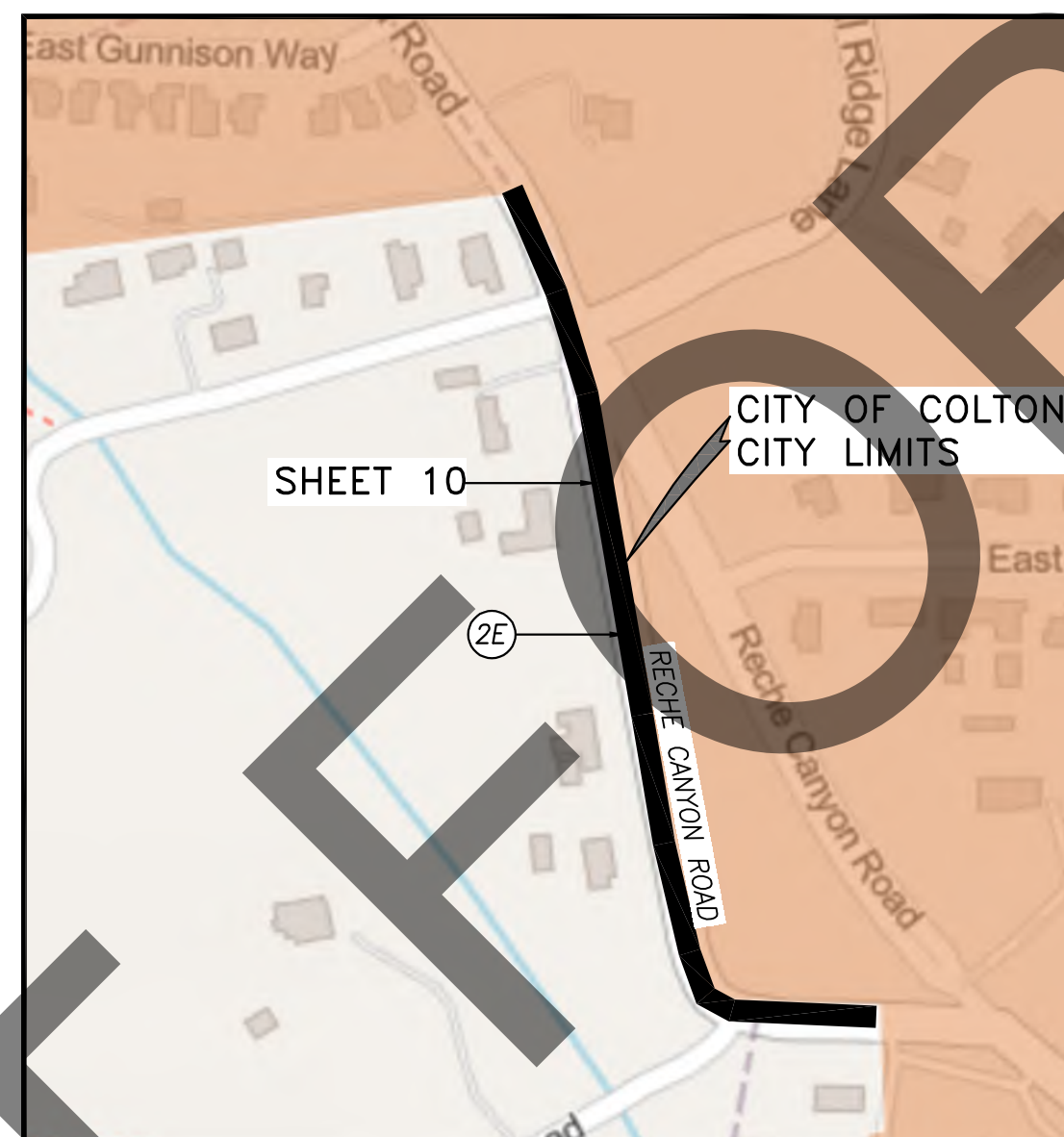
- COLD PLANE/MILL AND OVERLAY
- ASPHALT CONCRETE PAVEMENT
- PORTLAND CEMENT CONCRETE PLAN
- AGGREGATE BASE
- NATURAL GROUND
- DETECTABLE WARNING SURFACE
- PORTLAND CEMENT CONCRETE SECTION

NOTES

- (1) CONTRACTOR SHALL LOCATE AND MARK EXISTING BUT NOT LIMITED TO WATER VALVE, SEWER MANHOLE, STORM DRAIN MANHOLE, DRAIN INLET, TELEPHONE MANHOLE, ELECTRIC MANHOLE, ELECTRIC PULL BOX, CABLE BOX, ETC PRIOR TO START. EXISTING ABOVE GROUND UTILITIES SHALL BE PROTECTED IN PLACE OR ADJUST TO GRADE AS REQUIRED.
- (2) SURVEY MONUMENT SHALL BE PROTECTED IN PLACE OR RE-ESTABLISHED BY THE CONTRACTOR'S LICENSED LAND SURVEYOR.
- (3) EXISTING TRAFFIC LOOP SENSOR SHALL BE REPLACED AS REQUIRED PER CALTRANS STD. PLAN ES-5B AND PER DETAIL SHOWN ON SHEET 9. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY REPRESENTATIVE PRIOR TO START.

NOTES:

1. FOR CURB RAMP PLAN AND PROFILE, SEE SHEETS 6, 7, & 8.
2. FOR ROAD TYPICAL SECTIONS, SEE SHEET 4.



INDEX MAP
NOT TO SCALE

CONSTRUCTION NOTES:

- U UTILITIES TO BE RELOCATED BY OTHERS. (SEE NOTE U. OF COUNTY GENERAL NOTES ON SHEET 2.)
- 1 COLD PLANE 0.20' THK EXISTING ASPHALT CONCRETE PAVEMENT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA, 2" MINIMUM.
- 2 SAW CUT AND REMOVE 0.67' THK EXISTING PAVEMENT, 2' WIDE MINIMUM.
- 2A COLD PLANE 0.12' THK EXISTING ASPHALT CONCRETE, APPLY 0.04' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI AND PLACE 0.08" HIRAP F TYPE.
- 2B APPLY CRACK SEAL AND 2-COATS LIQUID ROAD "SEAL MASTER."
- 2C APPLY 2-COATS LIQUID ROAD "SEAL MASTER."
- 2D APPLY 3-COATS LIQUID ROAD "SEAL MASTER."
- 2E COLD PLANE 0.25' THK EXISTING ASPHALT CONCRETE, APPLY 0.05' THK 3/8" RUBBERIZED CHIP SEAL AS SAMI, APPLY TACK COAT AND PLACE 0.20' ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA.
- 2F COLD PLANE 0.30' THK EXISTING ASPHALT CONCRETE, PLACE 0.06" THK LEVELING COURSE, 3/8" PG 64-10 HMA, APPLY 0.04' THK 3/8" RUBBERIZED CHIP SEAL AS SAMI, APPLY TACK COAT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA.
- 2G PLACE SHOULDER BACKING PER STANDARD SPECIFICATIONS, SEE SPECS.
- 2H REMOVE AND DISPOSE OF EXISTING PAVEMENT TO A DEPTH OF 1'. EXCAVATE NATIVE GROUND TO A DEPTH OF 1.9' BELOW TOP OF FINISHED ROAD SURFACE AND COMPACT. PLACE 1.20' THK CLASS 2 AGGREGATE BASE AND COMPACT. APPLY PRIME COAT. PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA OVER 0.50' ASPHALT CONCRETE TYPE A, 1" AG, PG 70-10 HMA
- 2I NOT USED
- 3 SAW CUT & REMOVE EXISTING CONCRETE (RAMP, SIDEWALK, CROSS GUTTER, CURB AND GUTTER/CURB).
- 4 PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA OVER 0.47' THK ASPHALT CONCRETE TYPE A 1" AG, PG 70-10 HMA OVER COMPACTED NATIVE SOIL.
- 5 CONSTRUCT 6" CONCRETE CURB AND GUTTER PER COUNTY STD DWG 116.
- 6 CONSTRUCT 8" CONCRETE CURB AND GUTTER PER COUNTY STD DWG 115.
- 7 CONSTRUCT SPANDREL AND/OR CROSS GUTTER PER COUNTY STD DWG 119.
- 8 CONSTRUCT ADA RAMP PER CALTRANS STANDARD PLAN 2018RSP AB8A AND AB8B, CASE TYPE PER PLAN.
- 9 PLACE DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLAN 2018RSP AB8A.
- 10 CONSTRUCT CONCRETE SIDEWALK TYPE "C" PER COUNTY STD DWG 109 (MODIFIED).
- 11 CONSTRUCT 2' MIN. SIDEWALK TRANSITION (TO MATCH EXISTING SLOPE).
- 12 CONSTRUCT 6" CONCRETE RETAINING CURB (VARIABLE HEIGHTS) PER CALTRANS STANDARD PLAN 2018RSP AB8A.
- 13 CONSTRUCT 6" CONCRETE CURB, A1-6(150) PER SPPWC STD. PLAN 120-2.
- 14 RELOCATE EXISTING STREET SIGN PER CA MUTCD FIG. 2A-2(CA).
- 15 CONSTRUCT CONCRETE PAD PER DETAIL SHOWN ON SHEET 8.
- 16 NOT USED
- 17 ADJUST TO GRADE EXISTING WATER VALVE.

DATE	
APPR.	
REVISIONS	
MARK	
DATE	
APPR.	
REVISIONS	
MARK	

Underground Service Alert
CALL BEFORE YOU DIG
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

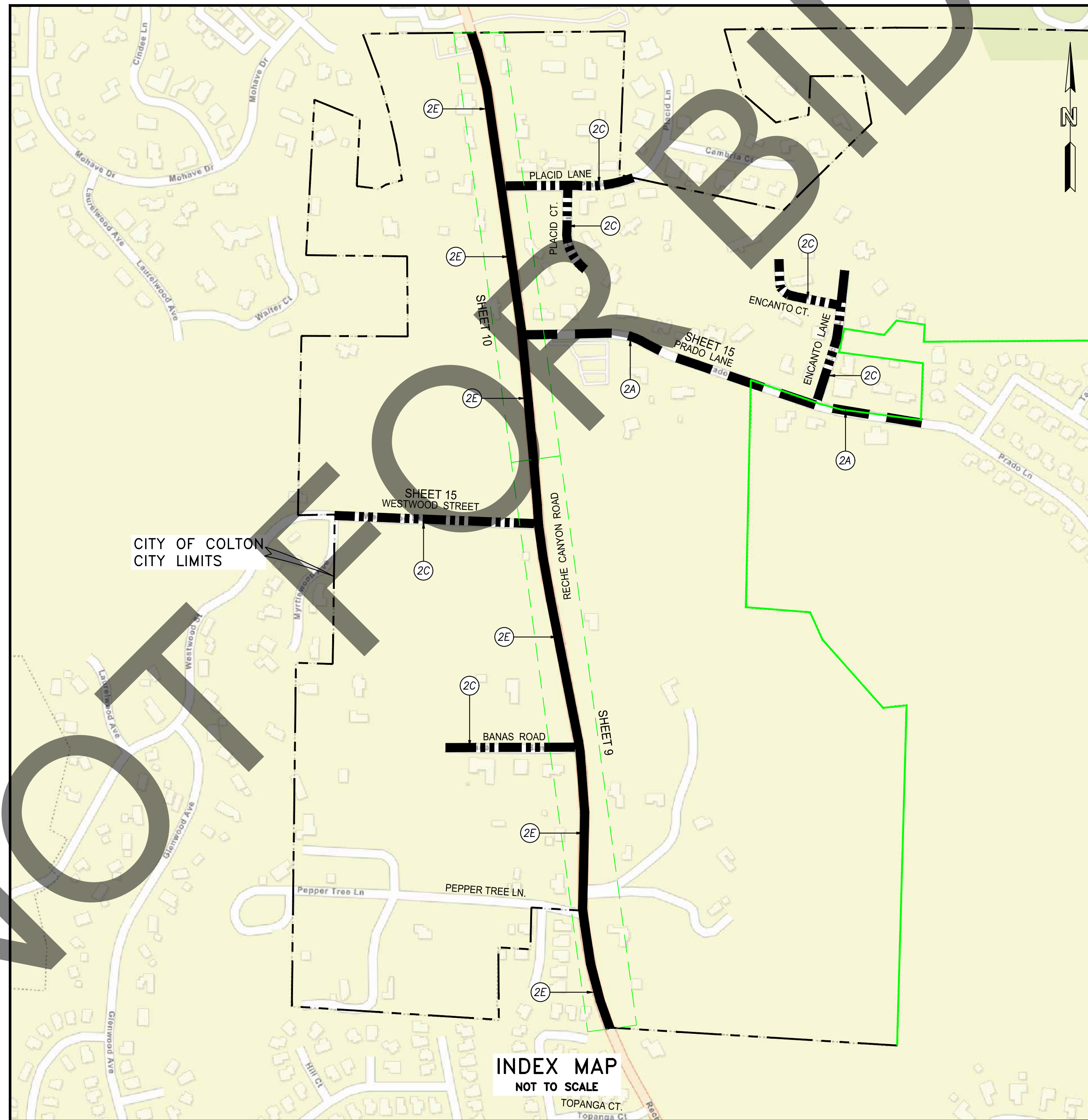
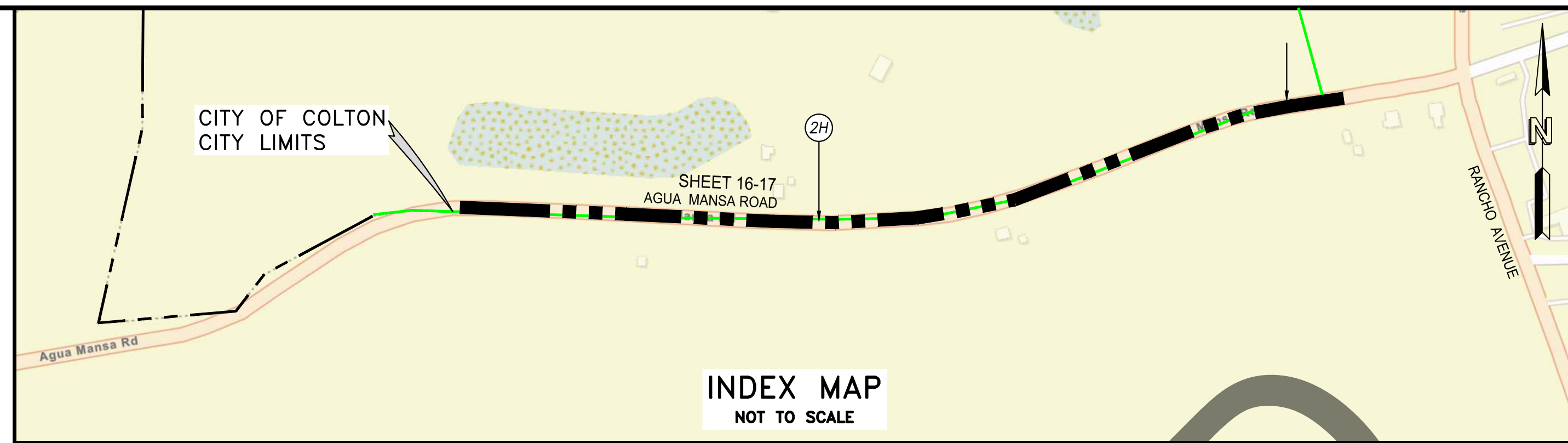
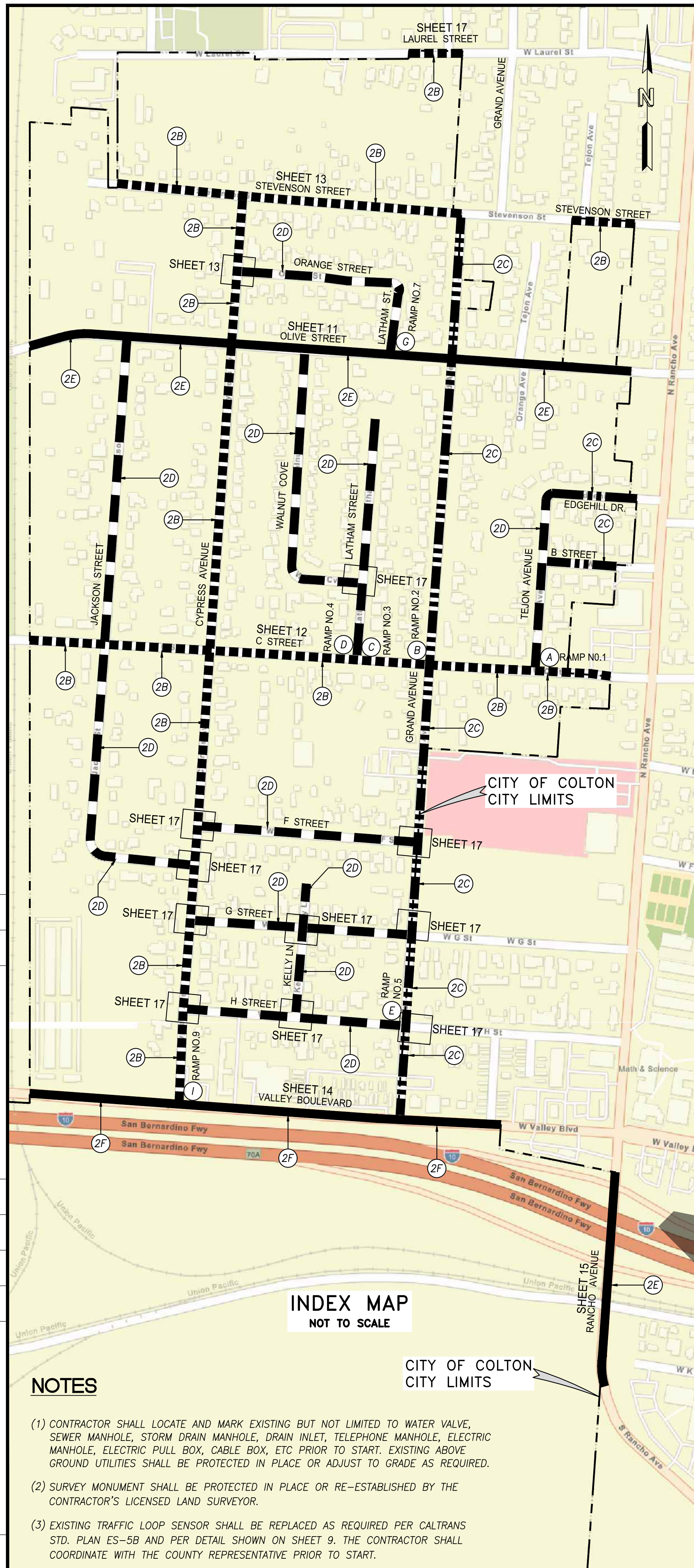
PLANS PREPARED UNDER THE SUPERVISION OF:
NV5
WWW.NV5.COM
133 TECHNOLOGY DRIVE
SUITE 200 IRVINE, CA 92618
TEL. (949) 585-0477
8/8/24
DAVID NIKHAFS, P.E.
C42697

REGISTERED PROFESSIONAL ENGINEER
DAVID NIKHAFS
No. 42697
CIVIL
STATE OF CALIFORNIA

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
AB	AB	DN	8/13/24
			DATE
APPROVED BY:			8/22/24
LEI LI, P.E. SUPERVISING ENGINEER			DATE

RECHE CANYON ROAD AND OTHER ROADS, COLTON AREA				
PROJECT NOTES, CONSTRUCTION NOTES, LEGEND, INDEX MAP & INDEX OF SHEETS				
SAN BERNARDINO COUNTY AND IN THE CITY OF COLTON				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	2	17



Underground Service Alert



CALL 811

TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED UNDER THE SUPERVISION OF:
NV5
 WWW.NV5.COM
 133 TECHNOLOGY DRIVE
 SUITE 200 IRVINE, CA 92618
 TEL: (949) 588-0477
 David N. Niknafs, P.E.
 8/8/24
 DATE



MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
AB	AB	DN	8/13/24 DATE
APPROVED BY:			8/22/24 DATE
LEI LI, P.E. SUPERVISING ENGINEER			MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR

RECHE CANYON ROAD AND OTHER ROADS, COLTON AREA				
INDEX MAP				
SAN BERNARDINO COUNTY AND IN THE CITY OF COLTON				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	3	17

ROAD LIST A				
STREET NAME	FROM	TO	RECOMMENDATIONS	LENGTH (MILES)
C STREET	0.07M WEST OF JACKSON STREET	0.07M EAST OF TEJON AVENUE	CRACK SEAL & 2-COATS LIQUID ROAD "SEAL MASTER"	0.46
CYPRESS AVENUE	VALLEY BOULEVARD	STEVENSON STREET	CRACK SEAL & 2-COATS LIQUID ROAD "SEAL MASTER"	0.74
LAUREL STREET	0.04M WEST OF LATHAM STREET	0.04M WEST OF GRAND AVENUE	CRACK SEAL & 2-COATS LIQUID ROAD "SEAL MASTER"	0.03
STEVENSON STREET	CYPRESS AVENUE	GRAND AVENUE	CRACK SEAL & 2-COATS LIQUID ROAD "SEAL MASTER"	0.18
STEVENSON STREET	0.09M EAST OF GRAND AVENUE	EAST 0.05M	CRACK SEAL & 2-COATS LIQUID ROAD "SEAL MASTER"	0.04
STEVENSON STREET	0.11M WEST OF CYPRESS AVENUE	CYPRESS AVENUE	CRACK SEAL & 2-COATS LIQUID ROAD "SEAL MASTER"	0.12

TOTAL: 1.57 MILES

ROAD LIST B				
STREET NAME	FROM	TO	RECOMMENDATION	LENGTH (MILES)
F STREET	CYPRESS AVENUE	CL GRAND AVENUE (COLTON CL)/ CITY LIMIT	3 COATS LIQUID ROAD "SEAL MASTER"	0.18
G STREET	CYPRESS AVENUE	CL GRAND AVENUE (COLTON CL)/ CITY LIMIT	3 COATS LIQUID ROAD "SEAL MASTER"	0.18
H STREET	CYPRESS AVENUE	CL GRAND AVENUE (COLTON CL)/ CITY LIMIT	3 COATS LIQUID ROAD "SEAL MASTER"	0.18
JACKSON STREET	CYPRESS AVENUE	OLIVE STREET	3 COATS LIQUID ROAD "SEAL MASTER"	0.50
KELLY LANE	H STREET	END	3 COATS LIQUID ROAD "SEAL MASTER"	0.11
LATHAM STREET	0.11M NORTH OF WALNUT COVE	NORTH 0.03M/END	3 COATS LIQUID ROAD "SEAL MASTER"	0.17
LATHAM STREET	C STREET	0.11M NORTH OF WALNUT COVE	3 COATS LIQUID ROAD "SEAL MASTER"	0.03
LATHAM STREET	OLIVE STREET	ORANGE STREET	3 COATS LIQUID ROAD "SEAL MASTER"	0.05
ORANGE STREET	CYPRESS AVENUE	LATHAM STREET	3 COATS LIQUID ROAD "SEAL MASTER"	0.13
TEJON AVENUE	C STREET	EDGEHILL DRIVE	3 COATS LIQUID ROAD "SEAL MASTER"	0.14
WALNUT COVE	LATHAM STREET	OLIVE STREET	3 COATS LIQUID ROAD "SEAL MASTER"	0.24

TOTAL: 1.91 MILES

ROAD LIST C				
STREET NAME	FROM	TO	RECOMMENDATION	LENGTH (MILES)
B STREET	TEJON AVENUE	0.03M WEST OF RANCHO AVENUE	2 COATS LIQUID ROAD "SEAL MASTER"	0.06
BANAS ROAD	0.10M WEST OF RECHE CANYON ROAD	RECHE CANYON ROAD	2 COATS LIQUID ROAD "SEAL MASTER"	0.10
EDGEHILL DRIVE	TEJON AVENUE	0.03M WEST OF RANCHO AVENUE	2 COATS LIQUID ROAD "SEAL MASTER"	0.07
ENCANTO COURT	0.03 M WEST OF ENCANTO LANE	ENCANTO LANE	2 COATS LIQUID ROAD "SEAL MASTER"	0.08
ENCANTO LANE	PRADO LANE	NORTH 0.10M	2 COATS LIQUID ROAD "SEAL MASTER"	0.10
GRAND AVENUE	VALLEY BOULEVARD	STEVENSON STREET	2 COATS LIQUID ROAD "SEAL MASTER"	0.74
PLACID COURT	END	NORTH OF PLACID LANE	2 COATS LIQUID ROAD "SEAL MASTER"	0.07
PLACID LANE	RECHE CANYON ROAD	EAST 0.11M	2 COATS LIQUID ROAD "SEAL MASTER"	0.10
WESTWOOD STREET	0.03M WEST OF MYRTLEWOOD AVENUE	RECHE CANYON ROAD	2 COATS LIQUID ROAD "SEAL MASTER"	0.16

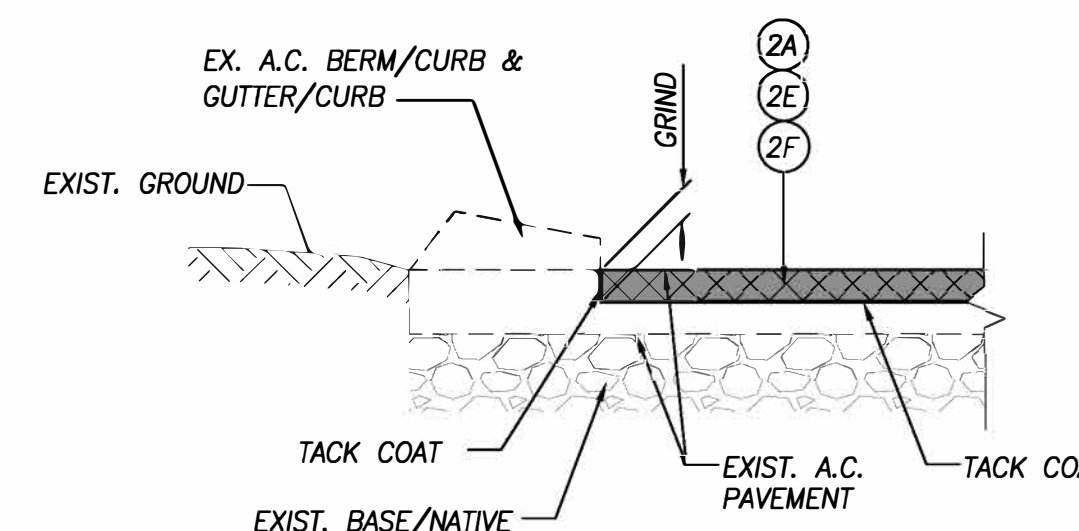
TOTAL: 1.48 MILES

ROAD LIST D				
STREET NAME	FROM	TO	RECOMMENDATION	LENGTH (MILES)
AGUA MANSÁ ROAD	0.30M WEST OF RANCHO AVENUE	584' WEST OF RANCHO AVENUE	REMOVE EXISTING ASPHALT AND BASE FOR AN AVERAGE DEPTH OF 1.00'. EXCAVATE NATIVE MATERIAL TO A DEPTH OF 1.90' BELOW TOP FINISHED PAVED ROAD AND COMPACT. PLACE 1.20' CLASS 2 AGGREGATE BASE AND COMPACT. APPLY PRIME COAT. PLACE 0.70' OF 3/4" TYPE C, PG 64-28 PM HMA	0.19
OLIVE STREET	0.07M WEST OF JACKSON STREET	0.03M WEST RANCHO AVENUE	0.25' MILL, APPLY .05' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20 OVERLAY WITH 3/4" TYPE G RHMA.	0.68
PRADO LANE	RECHE CANYON ROAD	0.34M EAST OF RECHE CANYON RD.	0.12' MILL, APPLY 0.04' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.08' HYRAP F TYPE.	0.48
RANCHO AVENUE	0.19M SOUTH OF VALLEY BOULEVARD	0.19M SOUTH OF VALLEY BLVD., 0.16M NORTH OF RW 1-10	0.25' MILL, APPLY 0.05' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20 OVERLAY WITH 3/4" TYPE G RHMA.	0.30
RECHE CANYON ROAD	1.20M SOUTH OF BARTON ROAD	1.20M SOUTH OF BARTON ROAD, NORTH 0.78M	0.25' MILL, APPLY 0.05' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20 OVERLAY WITH 3/4" TYPE G RHMA.	0.25
RECHE CANYON ROAD	0.67M NORTH OF RIVERSIDE CO. LINE	0.67M NORTHWEST OF RIVERSIDE CO. LINE, WEST & NORTH OF CITY LIMIT	0.25' MILL, APPLY 0.05' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20 OVERLAY WITH 3/4" TYPE G RHMA.	0.79
VALLEY BOULEVARD	0.13M WEST OF CYPRESS AVENUE	0.08M EAST OF GRAND AVENUE	0.30' MILL, CONSTRUCT 0.06' LEVELING COURSE, 3/8" PG 64-10 HMA, APPLY 0.04' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI & PLACE 0.20' OVERLAY WITH 3/4" TYPE G RHMA.	0.38

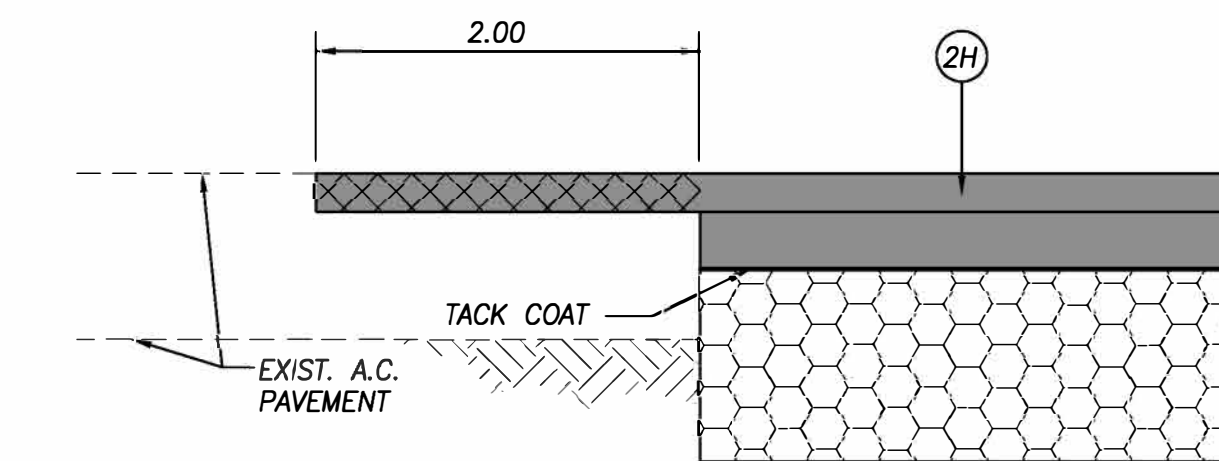
TOTAL: 3.06 MILES

ADA RAMP TABLE					
MAP LOCATION	SAN BERNARDINO COUNTY STREET LOCATION	QUADRANT	CURB RAMP NO.	RAMP QTY	SHEET
(A)	C STREET AND TEJON AVENUE	NE	1	1	7
(B)	C STREET AND GRAND AVENUE	NW	2	1	7
(C)	C STREET AND LATHAM STREET	NE	3	1	7
(D)	C STREET AND LATHAM STREET	NW	4	1	7
(E)	GRAND AVENUE AND H STREET	NW	5	1	8
(G)	OLIVE STREET AND LATHAM STREET	NE	7	1	8
(I)	VALLEY BOULEVARD AND CYPRESS AVENUE	NE	9	1	9

TOTAL: 7 RAMPS



A.C. GRIND/OVERLAY
NTS



AGUA MANSÁ FEATHER
NTS

Underground Service Alert
CALL 811
TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED UNDER THE SUPERVISION OF:
NV5
WWW.NV5.COM
133 TECHNOLOGY DRIVE
SUITE 200 IRVINE, CA 92618
TEL: (949) 555-0477
DAVID NIKNAFS, P.E. DATE 8/8/24
C42697



MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: AB
DRAWN BY: AB
CHECKED BY: DN
RECOMMENDED BY: 8/13/24
CHRIS NGUYEN, P.E. ENGINEERING MANAGER
APPROVED BY: 8/22/24
LEI LI, P.E. SUPERVISING ENGINEER
MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR

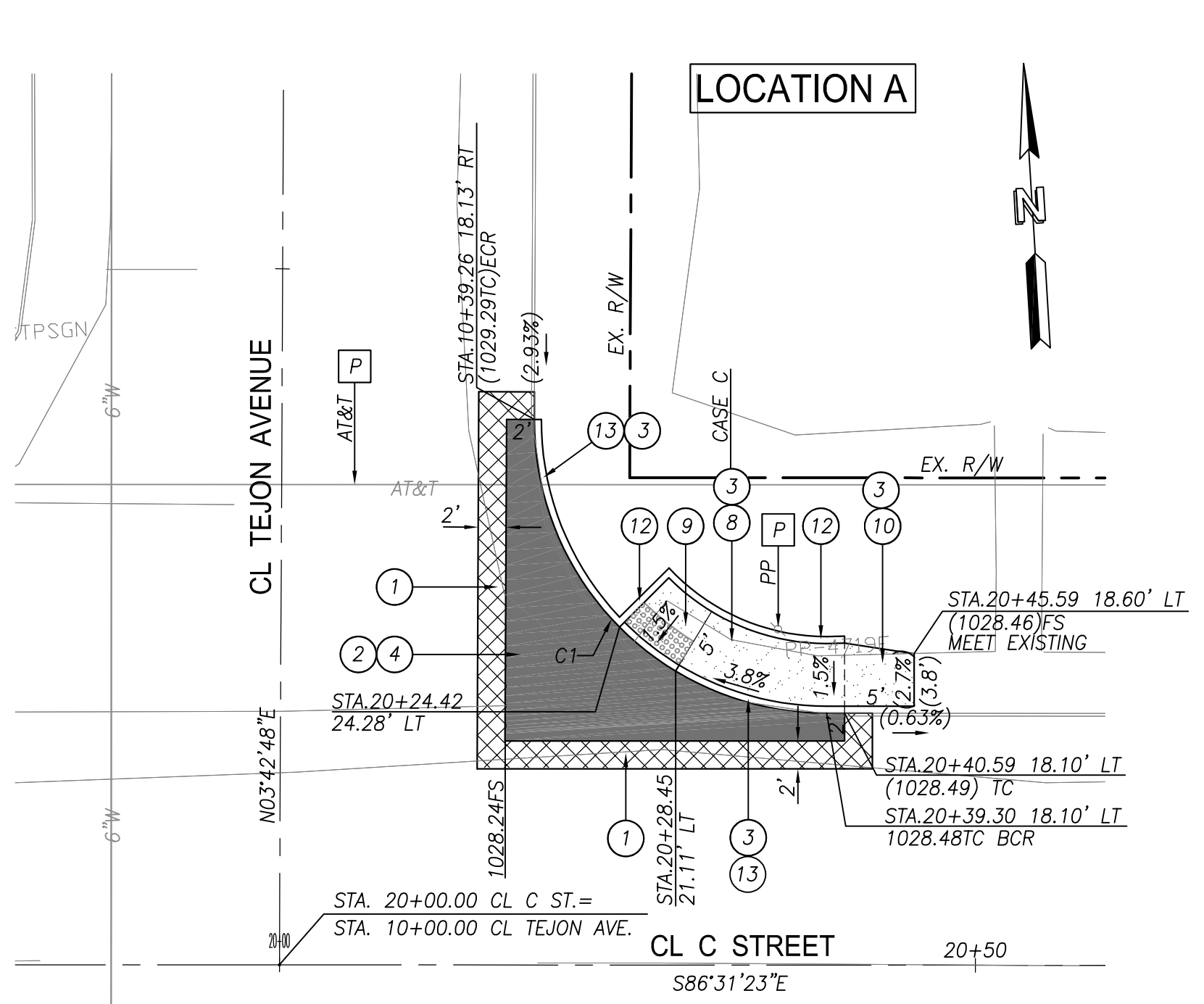
RECHE CANYON ROAD AND OTHER
ROADS, COLTON AREA
TABLES AND DETAIL
SAN BERNARDINO COUNTY AND IN THE
CITY OF COLTON

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	5	17

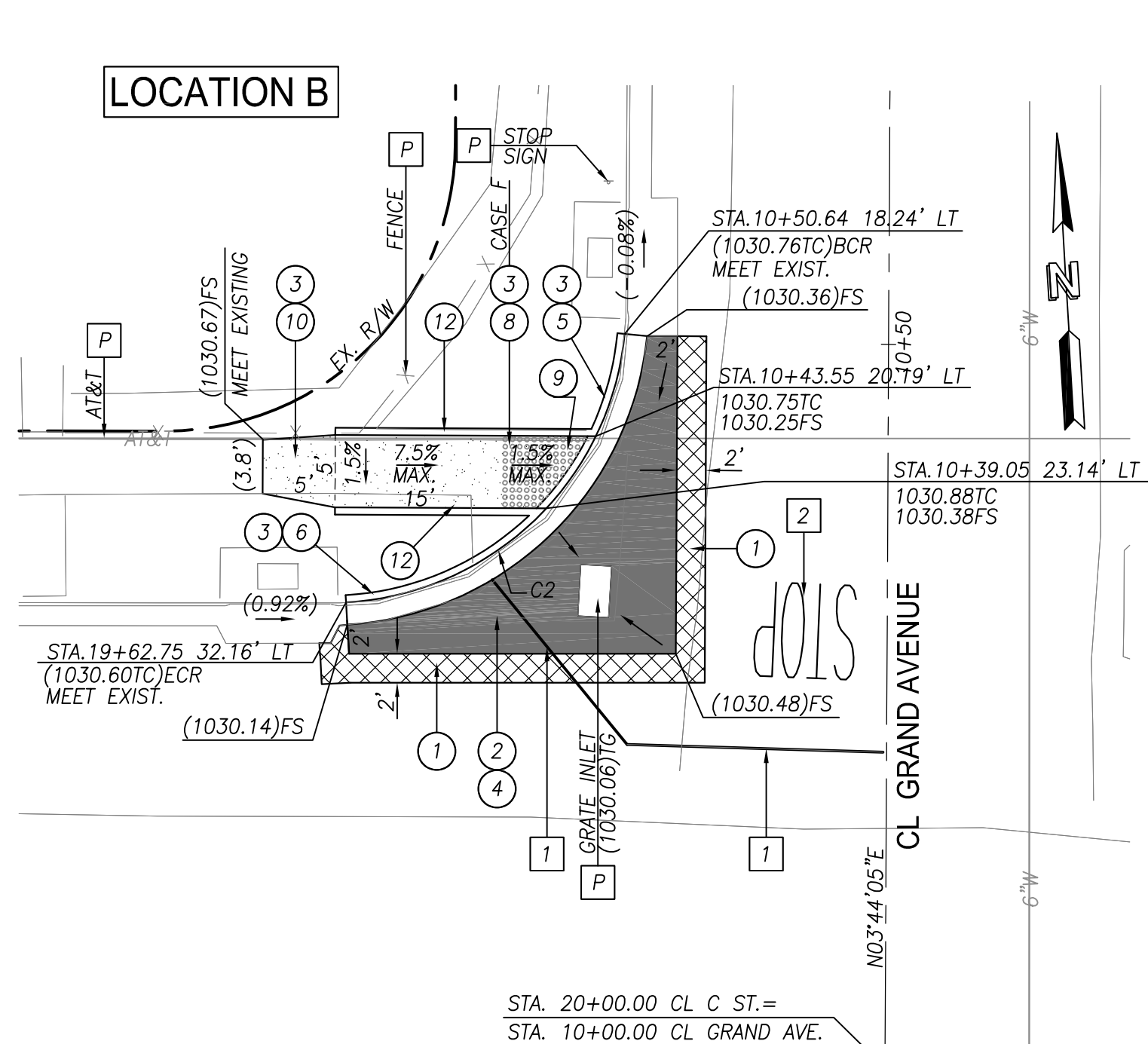
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8/13/2024

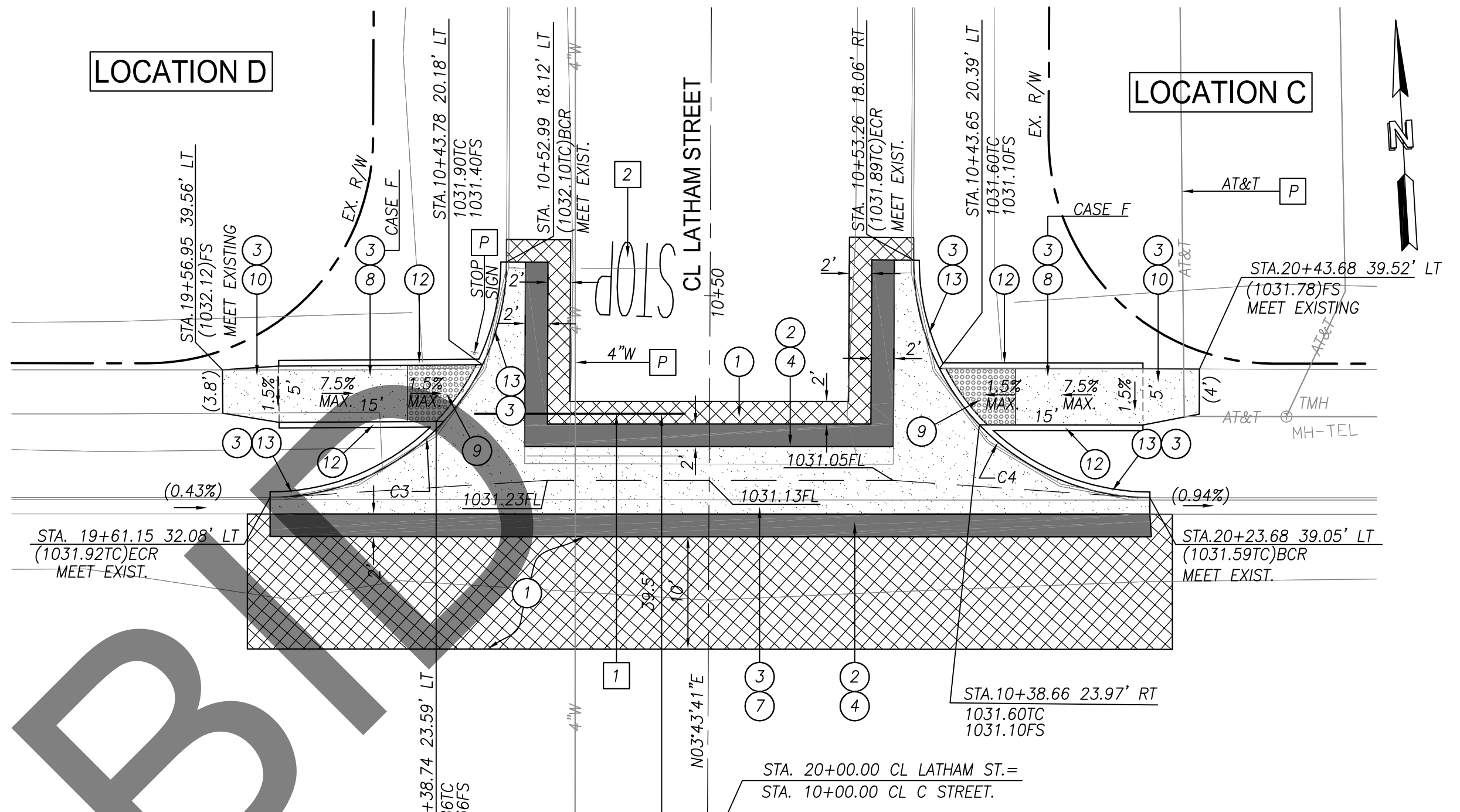
REVISIONS	DATE	APPR.



NE RAMP NO.1
PLAN

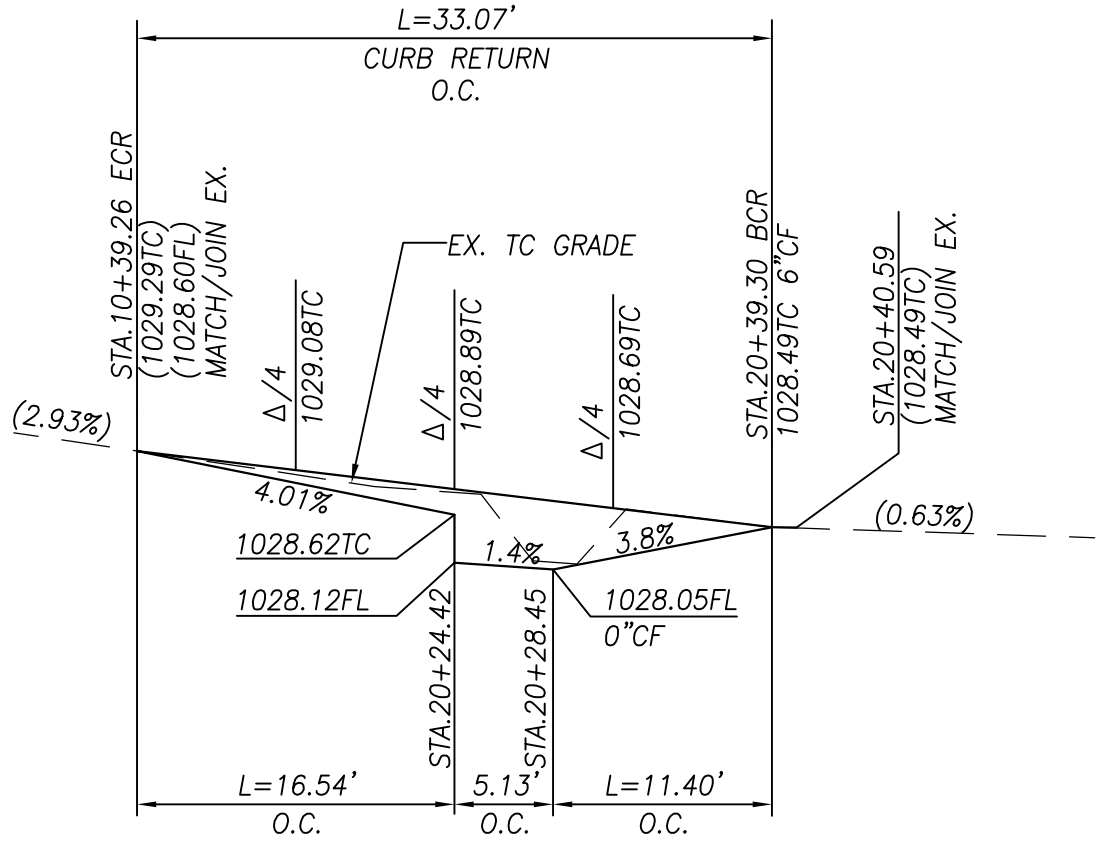


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PLAN

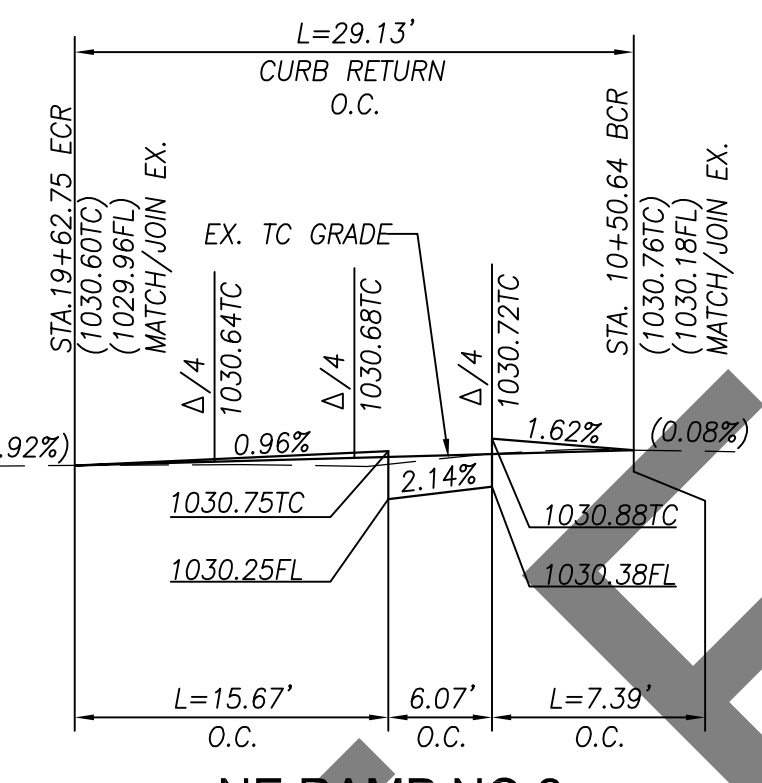


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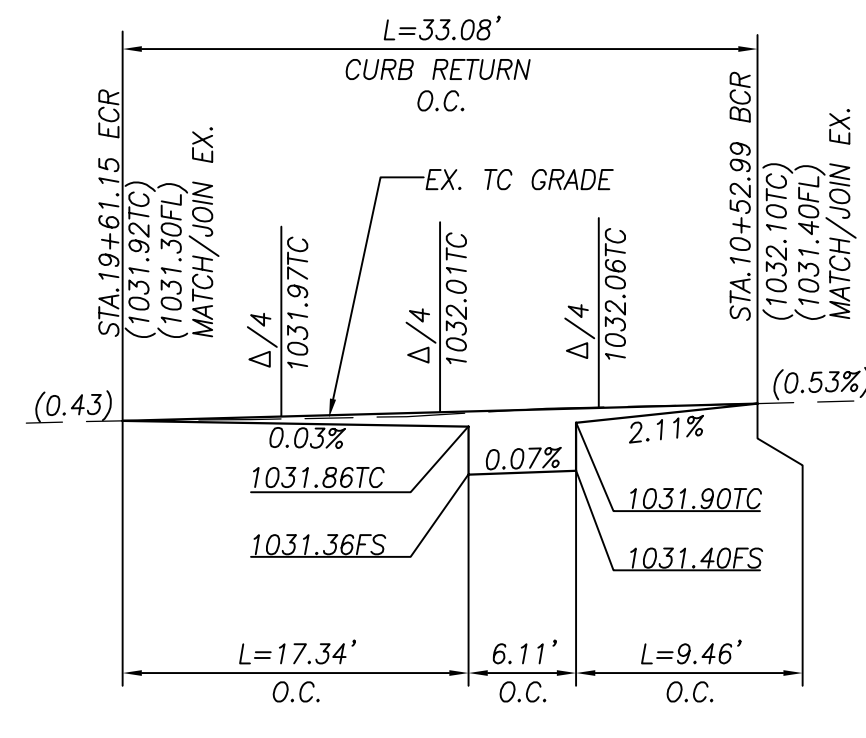
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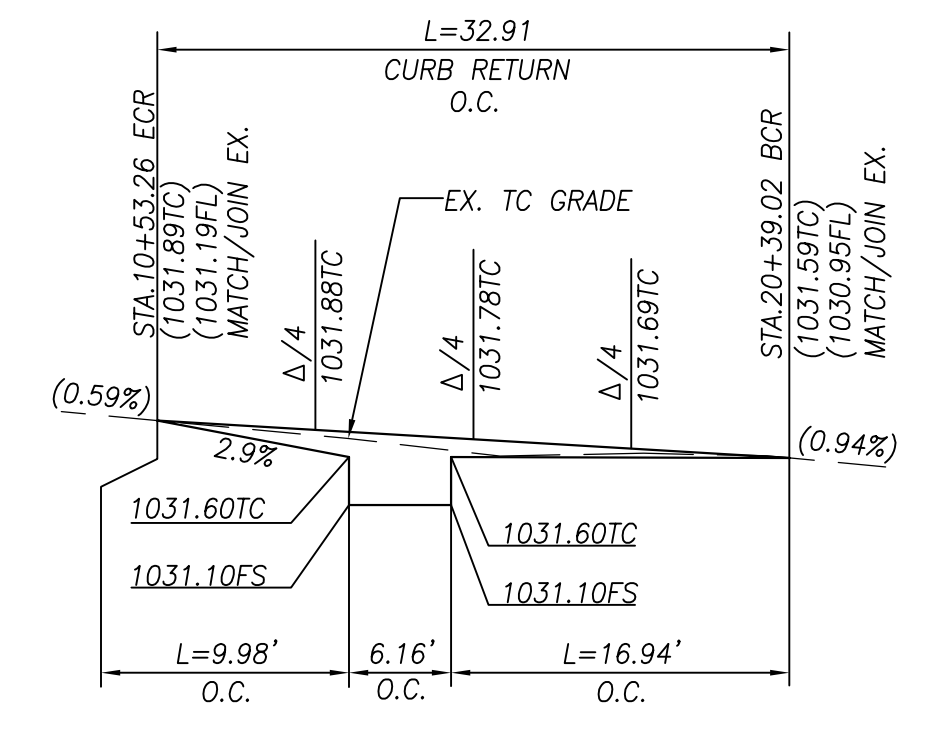
NE RAMP NO.1



NE RAMP NO.2



NW RAMP #4



NE RAMP NO.3

A C STREET AT TEJON AVENUE
SCALE 1"=10'

B C STREET AT GRAND AVENUE
SCALE 1"=10'

D C STREET AT LATHAM STREET
SCALE 1"=10'

- CONSTRUCTION NOTES:**
- U UTILITIES TO BE RELOCATED BY OTHERS. (SEE NOTE U. OF COUNTY GENERAL NOTES ON SHEET 2.)
 - 1 COLD PLANE 0.20' THK EXISTING ASPHALT CONCRETE PAVEMENT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA, 2" MINIMUM.
 - 2 SAW CUT AND REMOVE 0.67' THK EXISTING PAVEMENT, 2' WIDE MINIMUM.
 - 2A COLD PLANE 0.12' THK EXISTING ASPHALT CONCRETE, APPLY 0.04' THICK 3/8" RUBBERIZED CHIP SEAL AS SAMI AND PLACE 0.08' HYRAP F TYPE.
 - 2B APPLY CRACK SEAL AND 2-COATS LIQUID ROAD "SEAL MASTER."
 - 2C APPLY 2-COATS LIQUID ROAD "SEAL MASTER."
 - 2D APPLY 3-COATS LIQUID ROAD "SEAL MASTER."
 - 2E COLD PLANE 0.25' THK EXISTING ASPHALT CONCRETE, APPLY 0.05' THK 3/8" RUBBERIZED CHIP SEAL AS SAMI, APPLY TACK COAT AND PLACE 0.20' ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA.
 - 2F COLD PLANE 0.30' THK EXISTING ASPHALT CONCRETE, PLACE 0.06' THK LEVELING COURSE, 3/8" PG 64-10 HMA, APPLY 0.04' THK 3/8" RUBBERIZED CHIP SEAL AS SAMI, APPLY TACK COAT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA.
 - 2G PLACE SHOULDER BACKING PER STANDARD SPECIFICATIONS, SEE SPECS.
 - 2H REMOVE AND DISPOSE OF EXISTING PAVEMENT TO A DEPTH OF 1'. EXCAVATE NATIVE GROUND TO A DEPTH OF 1.9' BELOW TOP OF FINISHED ROAD SURFACE AND COMPACT. PLACE 1.20' THK CLASS 2 AGGREGATE BASE AND COMPACT. APPLY PRIME COAT. PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA OVER 0.50' ASPHALT CONCRETE TYPE A, 1" AG, PG 70-10 HMA
 - 2I NOT USED
 - 3 SAW CUT & REMOVE EXISTING CONCRETE (RAMP, SIDEWALK, CROSS GUTTER, CURB AND GUTTER/CURB).

- 4 PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA OVER 0.47' THK ASPHALT CONCRETE TYPE A 1" AG, PG 70-10 HMA OVER COMPACTED NATIVE SOIL.
- 5 CONSTRUCT 6" CONCRETE CURB AND GUTTER PER COUNTY STD DWG 116.
- 6 CONSTRUCT 8" CONCRETE CURB AND GUTTER PER COUNTY STD DWG 115.
- 7 CONSTRUCT SPANDREL AND/OR CROSS GUTTER PER COUNTY STD DWG 119.
- 8 CONSTRUCT ADA RAMP PER CALTRANS STANDARD PLAN 2018RSP AB8A AND AB8B, CASE TYPE PER PLAN.
- 9 PLACE DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLAN 2018RSP AB8A.
- 10 CONSTRUCT CONCRETE SIDEWALK TYPE "C" PER COUNTY STD DWG 109 (MODIFIED).
- 11 CONSTRUCT 2' MIN. SIDEWALK TRANSITION (TO MATCH EXISTING SLOPE).
- 12 CONSTRUCT 6" CONCRETE RETAINING CURB (VARIABLE HEIGHTS) PER CALTRANS STANDARD PLAN 2018RSP AB8A.
- 13 CONSTRUCT 6" CONCRETE CURB, A1-6(150) PER SPPWC STD. PLAN 120-2.
- 14 RELOCATE EXISTING STREET SIGN PER CA MUTCD FIG. 2A-2(CA).
- 15 CONSTRUCT CONCRETE PAD PER DETAIL SHOWN ON SHEET 8.
- 16 NOT USED
- 17 ADJUST TO GRADE EXISTING WATER VALVE.

STRIPING CONSTRUCTION NOTES

- 1 PAINT 12-INCH WHITE LIMIT LINE PER CALTRANS 2018 STD. PLAN A24E.
- 2 PAINT WHITE PAVEMENT MARKING LEGEND PER CALTRANS 2018 STD. PLAN A24D. (TYPE PER PLAN).

DISPOSITION NOTES

- P PROTECT IN PLACE
- M MATCH/JOIN EXISTING

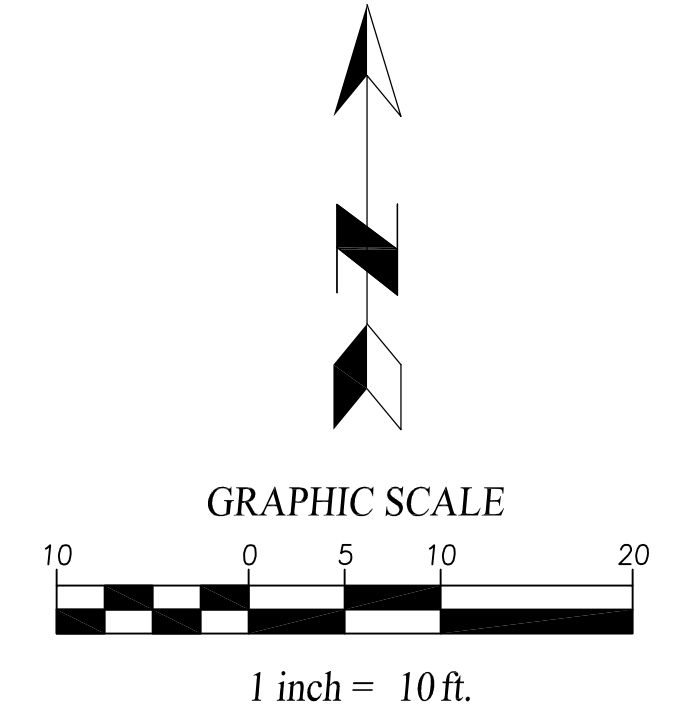
CONSTRUCTION LEGEND

- ASPHALT CONCRETE PAVEMENT
- ASPHALT CONCRETE COLD PLANE
- PORTLAND CEMENT CONCRETE

CURVE DATA				
CURVE	LENGTH	RADIUS	PIVA	PIHA
C1	33.07'	21.0'	87.44'	21.0'
C2	29.13'	20.0'	87.44'	11.4'
C3	33.08'	21.0'	87.44'	21.0'
C4	32.91'	20.0'	87.44'	21.0'

NOTES

1. EXISTING IRRIGATION LINE, VALVE AND HEAD SHALL BE RELOCATED AS REQUIRED AND PER COUNTY REPRESENTATIVE APPROVAL.
2. EXISTING IRRIGATION AND VEGETATION DAMAGED DURING CONSTRUCTION SHALL BE RESTORED PER COUNTY REPRESENTATIVE APPROVAL.



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PLANS PREPARED UNDER THE SUPERVISION OF:
NV5
WWW.NV5.COM
133 TECHNOLOGY DRIVE
SUITE 200 IRVINE, CA 92618
TEL (949) 588-0477
8/8/24
DAVID NIKHAFS, P.E. DATE
C42697

REGISTERED PROFESSIONAL ENGINEER
DAVID NIKHAFS
No. 42697
CIVIL
STATE OF CALIFORNIA

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: AB
DRAWN BY: AB
CHECKED BY: DN
RECOMMENDED BY: CHRIS NGUYEN, P.E. ENGINEERING MANAGER 8/13/24 DATE

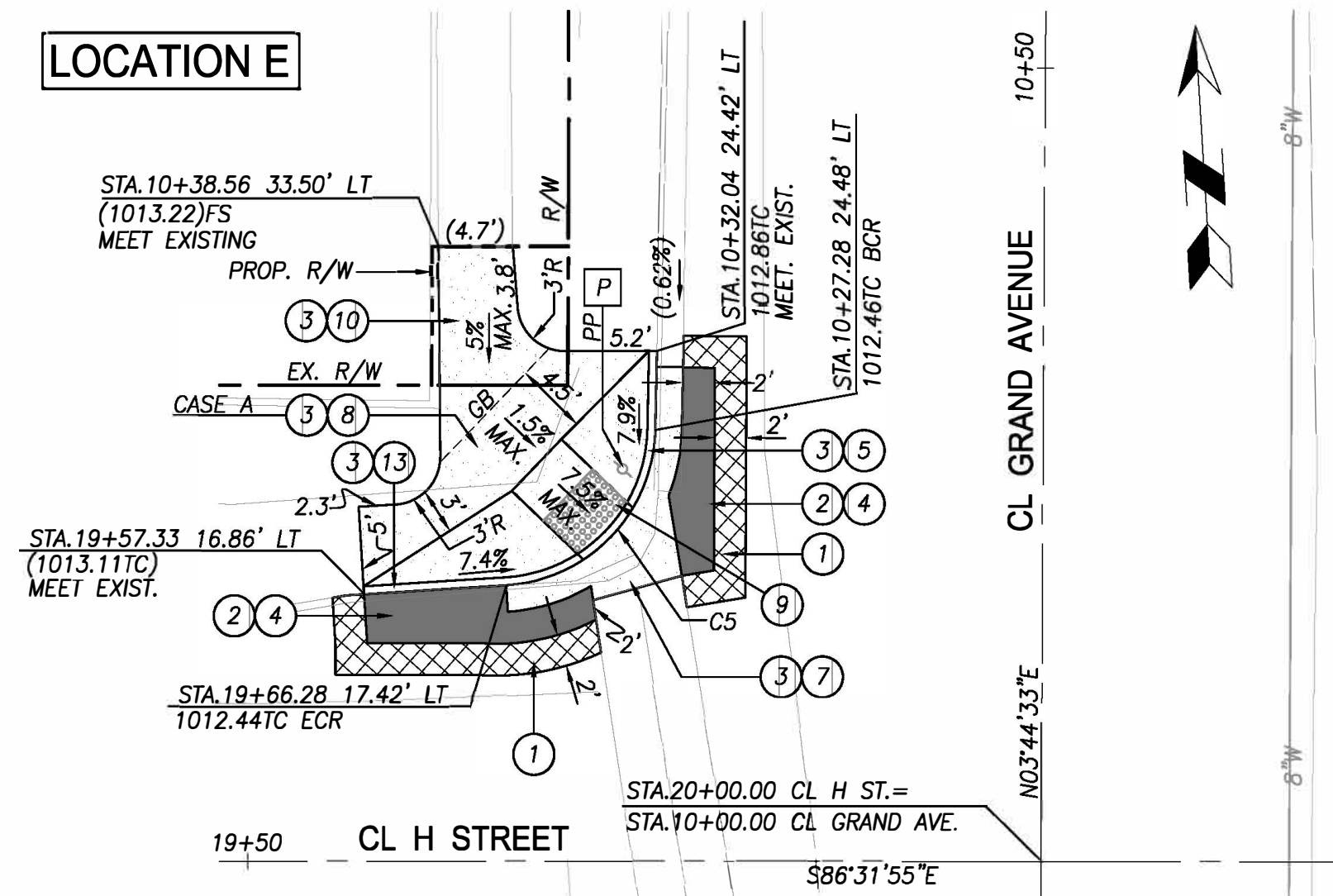
APPROVED BY: MERAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 8/22/24 DATE

RECHE CANYON ROAD AND OTHER ROADS, COLTON AREA

CURB RAMP PLAN & PROFILES
SAN BERNARDINO COUNTY AND IN THE CITY OF COLTON

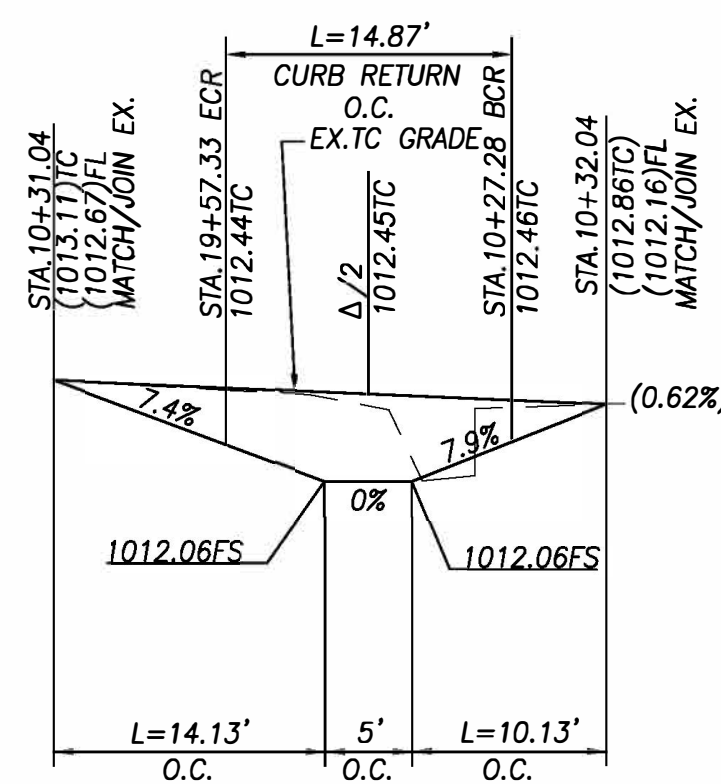
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	6	17

LOCATION E



NW RAMP NO.5

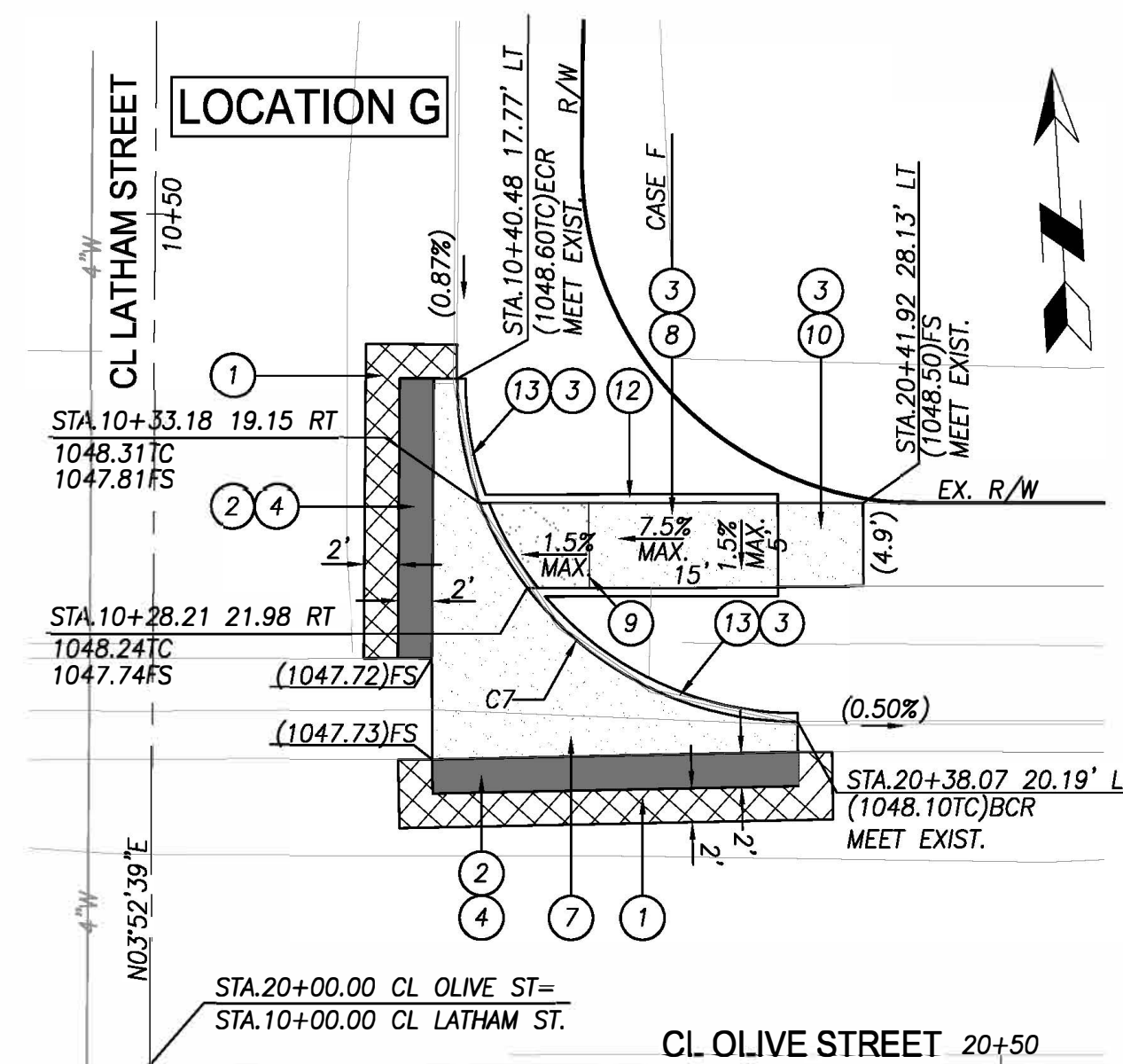
PLAN



NW RAMP NO.5

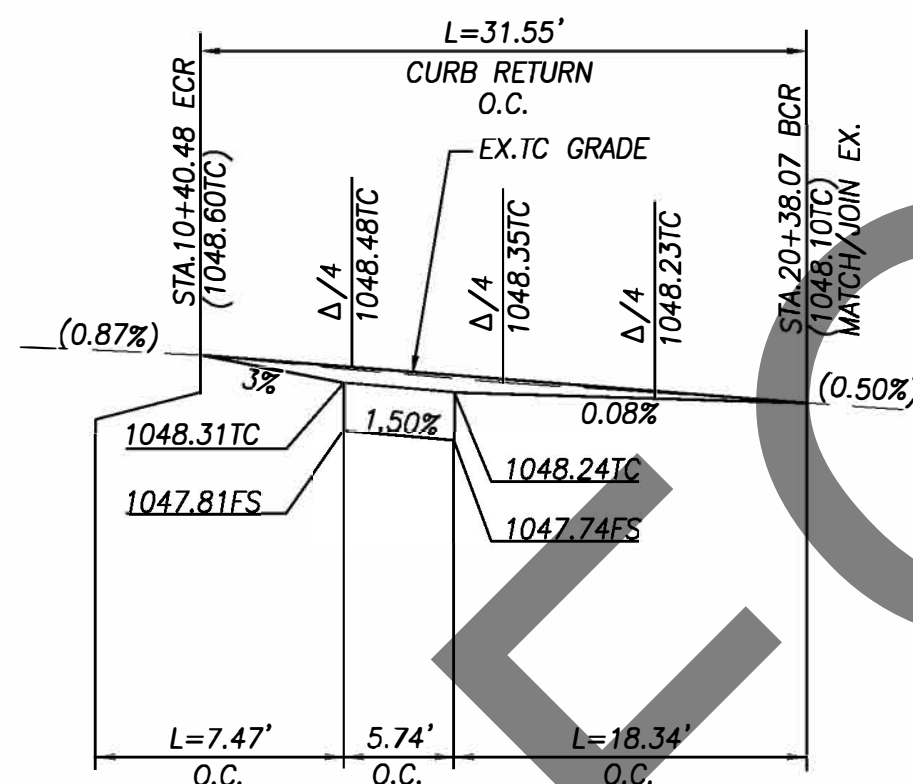
E GRAND AVENUE AT H STREET
SCALE 1"=10'

LOCATION G



NE RAMP NO.7

PLAN



NE RAMP NO.7

G OLIVE STREET AT LATHAM STREET
SCALE 1"=10'

STRIPING CONSTRUCTION NOTES

- 1 PAINT 12-INCH WHITE LIMIT LINE PER CALTRANS 2018 STD. PLAN A24E.
- 2 PAINT WHITE PAVEMENT MARKING LEGEND PER CALTRANS 2018 STD. PLAN A24D. (TYPE PER PLAN).

CONSTRUCTION NOTES:

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- 2C APPLY 2-COATS LIQUID ROAD "SEAL MASTER."
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- 2F COLD PLANE 0.30' THK EXISTING ASPHALT CONCRETE, PLACE 0.06' THK LEVELING COURSE, 3/8" PG 64-10 HMA, APPLY 0.04' THK 3/8" RUBBERIZED CHIP SEAL AS SAMI, APPLY TACK COAT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA.
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- 7 CONSTRUCT SPANDREL AND/OR CROSS GUTTER PER COUNTY STD DWG 119.
- 8 CONSTRUCT ADA RAMP PER CALTRANS STANDARD PLAN 2018RSP ABBA AND AB8B, CASE TYPE PER PLAN.
- 9 PLACE DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLAN 2018RSP ABBA.
- 10 CONSTRUCT CONCRETE SIDEWALK TYPE "C" PER COUNTY STD DWG 109 (MODIFIED).
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- 13 CONSTRUCT 6" CONCRETE CURB, A1-6(150) PER SPPWC STD. PLAN 120-2.
- 14 RELOCATE EXISTING STREET SIGN PER CA MUTCD FIG. 2A-2(CA).
- 15 CONSTRUCT CONCRETE PAD PER DETAIL SHOWN ON SHEET B.
- 16 NOT USED
- 17 ADJUST TO GRADE EXISTING WATER VALVE.

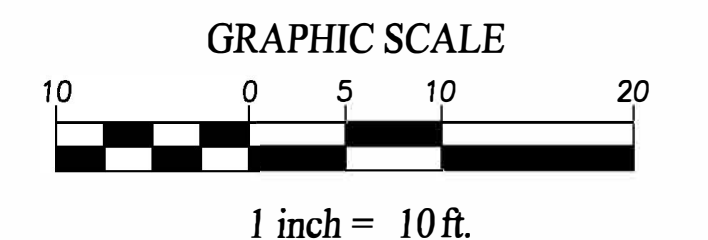
CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C5	14.87	10.00	85°13'28"	9.20
C7	31.55	20.00	90°23'21"	20.14

DISPOSITION NOTES

- P PROTECT IN PLACE
- M MATCH/JOIN EXISTING

CONSTRUCTION LEGEND

- ASPHALT CONCRETE PAVEMENT
- ASPHALT CONCRETE COLD PLANE
- PORTLAND CEMENT CONCRETE



NOTES

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Underground Service Alert

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NV5

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133 TECHNOLOGY DRIVE
SUITE 200 IRVINE, CA 92618
TEL: (949) 555-0477

DAVID NIKNAFS, P.E. DATE 8/8/24

REGISTERED PROFESSIONAL ENGINEER

DAVID NIKNAFS

No. 42697

CIVIL

STATE OF CALIFORNIA

SAN BERNARDINO COUNTY

DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: AB DRAWN BY: AB CHECKED BY: DN RECOMMENDED BY: CHRIS NGUYEN, P.E. ENGINEERING MANAGER 8/13/24

APPROVED BY: MERIAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 8/22/24

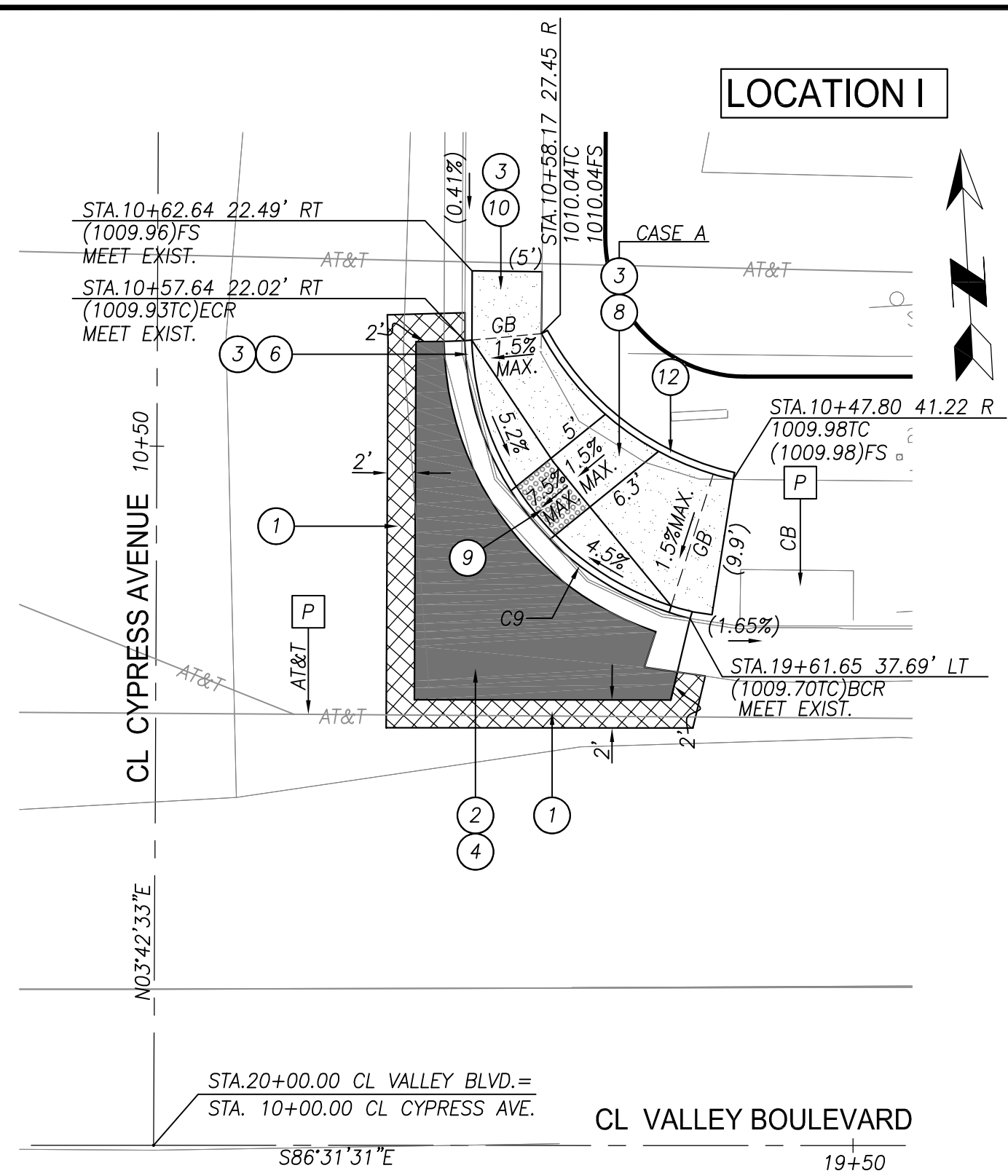
LEI LI, P.E. SUPERVISING ENGINEER

RECHE CANYON ROAD AND OTHER ROADS, COLTON AREA

CURB RAMP PLANS & PROFILES

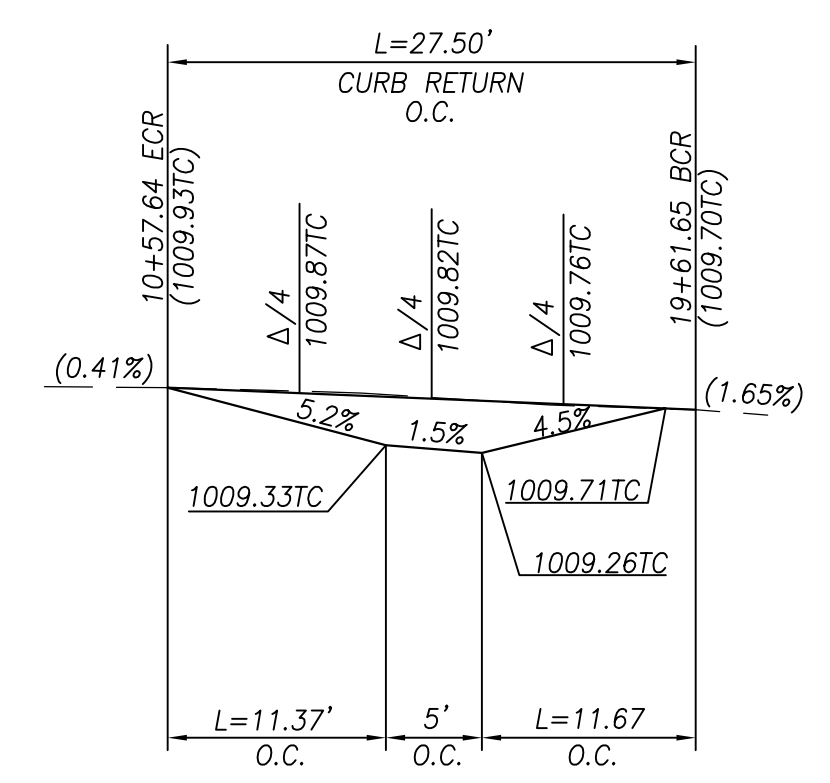
SAN BERNARDINO COUNTY AND IN THE CITY OF COLTON

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	7	17



NE RAMP NO.9

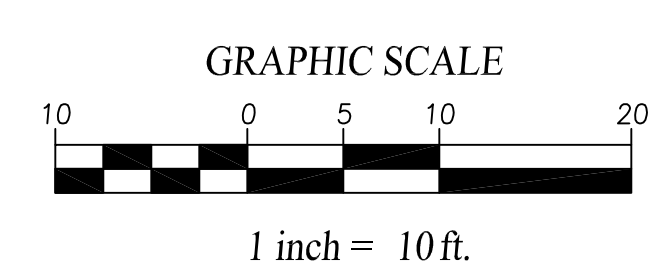
PLAN



NE RAMP NO.9

1 VALLEY BLVD. AT CYPRESS AVENUE
SCALE 1"=10'

CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C9	27.50	21.00	75°01'41"	16.12



- CONSTRUCTION NOTES:**
- U UTILITIES TO BE RELOCATED BY OTHERS. (SEE NOTE U. OF COUNTY GENERAL NOTES ON SHEET 2.
 - 1 COLD PLANE 0.20' THK EXISTING ASPHALT CONCRETE PAVEMENT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA, 2' MINIMUM.
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 - 2C APPLY 2-COATS LIQUID ROAD "SEAL MASTER."
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 - 2F COLD PLANE 0.30' THK EXISTING ASPHALT CONCRETE, PLACE 0.06' THK LEVELING COURSE, 3/8" PG 64-10 HMA, APPLY 0.04' THK 3/8" RUBBERIZED CHIP SEAL AS SAMI, APPLY TACK COAT AND PLACE 0.20' THK ASPHALT CONCRETE TYPE G, 3/4" AG, PG 64-16 RHMA.
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 - 2I NOT USED
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 - 9 PLACE DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLAN 2018RSP AB8A.
 - 10 CONSTRUCT CONCRETE SIDEWALK TYPE "C" PER COUNTY STD DWG 109 (MODIFIED).
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 - 13 CONSTRUCT 6" CONCRETE CURB, A1-6(150) PER SPPWC STD. PLAN 120-2.
 - 14 RELOCATE EXISTING STREET SIGN PER CA MUTCD FIG. 2A-2(CA).
 - 15 CONSTRUCT CONCRETE PAD PER DETAIL SHOWN ON SHEET 8.
 - 16 NOT USED
 - 17 ADJUST TO GRADE EXISTING WATER VALVE.

DISPOSITION NOTES

- P PROTECT IN PLACE
- M MATCH/JOIN EXISTING

CONSTRUCTION LEGEND

- ASPHALT CONCRETE PAVEMENT
- ASPHALT CONCRETE COLD PLANE
- PORTLAND CEMENT CONCRETE

NOTES

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NOT FOR BID

REVISIONS	DATE	APPR.

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SUITE 200 IRVINE, CA 92618
TEL. (949) 588-0477

DAVID NIKNAFS, P.E. DATE 8/8/24
C42697

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
AB	AB	DN	8/13/24 CHRIS NGUYEN, P.E. ENGINEERING MANAGER
APPROVED BY:			8/22/24
MERHAT N. MIKHAIL, P.E. DEPUTY DIRECTOR			DATE

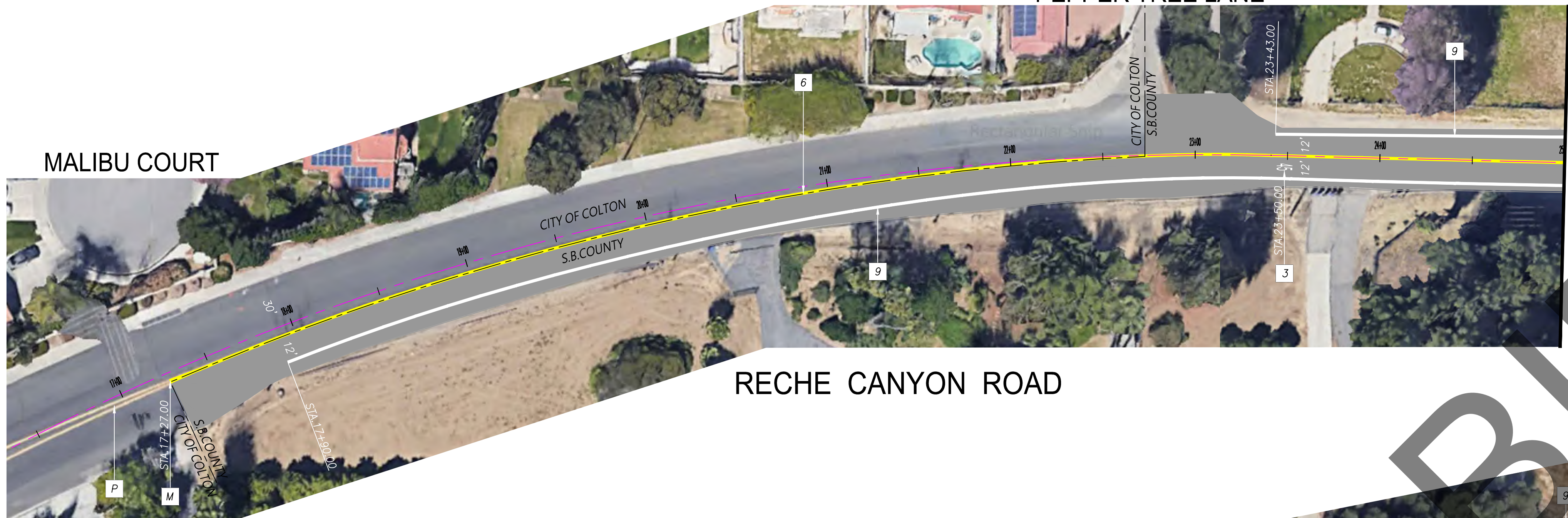
RECHE CANYON ROAD AND OTHER
ROADS, COLTON AREA

CURB RAMP PLANS & PROFILES
SAN BERNARDINO COUNTY AND IN THE
CITY OF COLTON

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	8	17

FIELD CHANGES

PEPPER TREE LANE



STRIPING CONSTRUCTION NOTES

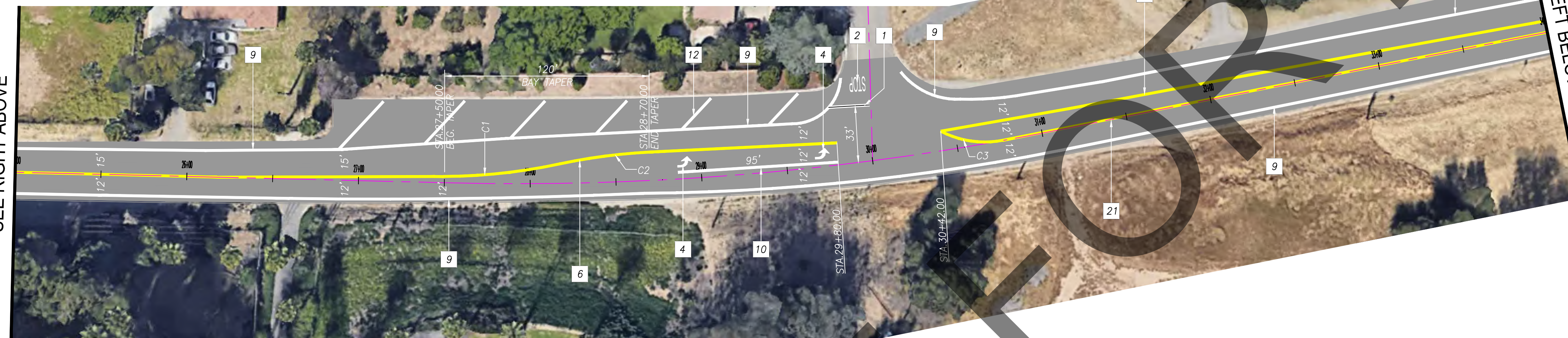
- 1 PAINT 12-INCH WHITE LIMIT LINE PER CALTRANS 2018 STD. PLAN A24E.
- 2 PAINT WHITE PAVEMENT MARKING LEGEND PER CALTRANS 2018 STD. PLAN A24D, (TYPE PER PLAN).
- 3 PAINT WHITE PAVEMENT MARKING LEGEND PER CALTRANS 2018 STD. PLAN A24C, (TYPE PER PLAN).
- 4 PAINT TYPE IV LEFT OR RIGHT TURN ARROW PAVEMENT MARKING PER CALTRANS 2018 STD. PLAN A24A.
- 5 PAINT TYPE VI LANE DROP PAVEMENT MARKING PER CALTRANS 2018 STD. PLAN A24A.
- 6 PAINT DOUBLE-YELLOW STRIPE PER CALTRANS 2018 STD. PLAN A20A, DETAIL 22.
- 7 PAINT 6-INCH DASHED WHITE LINE PER CALTRANS 2018 STD. PLAN A20A, DETAIL 12.
- 8 PAINT 6-INCH SOLID WHITE LINE PER CALTRANS 2018 STD. PLAN A20A, DETAIL 12.
- 9 PAINT 6-INCH SOLID WHITE EDGE LINE PER CALTRANS 2018 STD. PLAN A20B, DETAIL 27B.
- 10 PAINT 8-INCH SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STD. PLAN A20D, DETAIL 38.
- 11 PAINT 12-INCH SOLID WHITE CROSSWALK PER CALTRANS 2018 STD. PLAN A24F, BASIC.
- 12 PAINT 12-INCH WHITE HATCHING MARKINGS AT 45° AND 50° SPACING PER CA MUTCD 2014, SEC.3B.24.
- 13 PAINT 12-INCH SOLID YELLOW LINE AT 45° AND 50° SPACING, PER CA MUTCD 2014, SEC. 3B.24.
- 14 PAINT 8-INCH DASHED LANE DROP MARKINGS PER CALTRANS 2018 STD. PLAN A20C, DETAIL 37B.
- 15 INSTALL 36" SPIN-IN CITY POST CHANNELIZER WHITE (3" ROUND) WITH RETROREFLECTIVE SHEETING INCLUDING CORED IN BASE PER MANUFACTURERS SPECIFICATIONS. SPACING AS SHOWN ON PLAN.
- 16 PAINT 6-INCH WHITE STRIPE LANE LINE EXTENSIONS THROUGH INTERSECTIONS PER CALTRANS 2018 STD. PLAN A20D, DETAIL 40.
- 17 PAINT 6-INCH YELLOW STRIPE CENTER LINE EXTENSIONS THROUGH INTERSECTIONS PER CALTRANS 2018 STD. PLAN A20D, DETAIL 41.
- 18 PAINT 6-INCH DASHED WHITE LINE PER CALTRANS 2018 STD. PLAN A20A, DETAIL 9.
- 21 PAINT 6-INCH DOUBLE-YELLOW MEDIAN ISLAND STRIPE PER CALTRANS 2018 STD. PLAN A20B, DETAIL 29.

- P PROTECT IN PLACE
- M MATCH/JOIN EXISTING

SEE SHEET 2 OF 17 FOR SAN BERNARDINO COUNTY TRAFFIC CONTROL GENERAL NOTES.

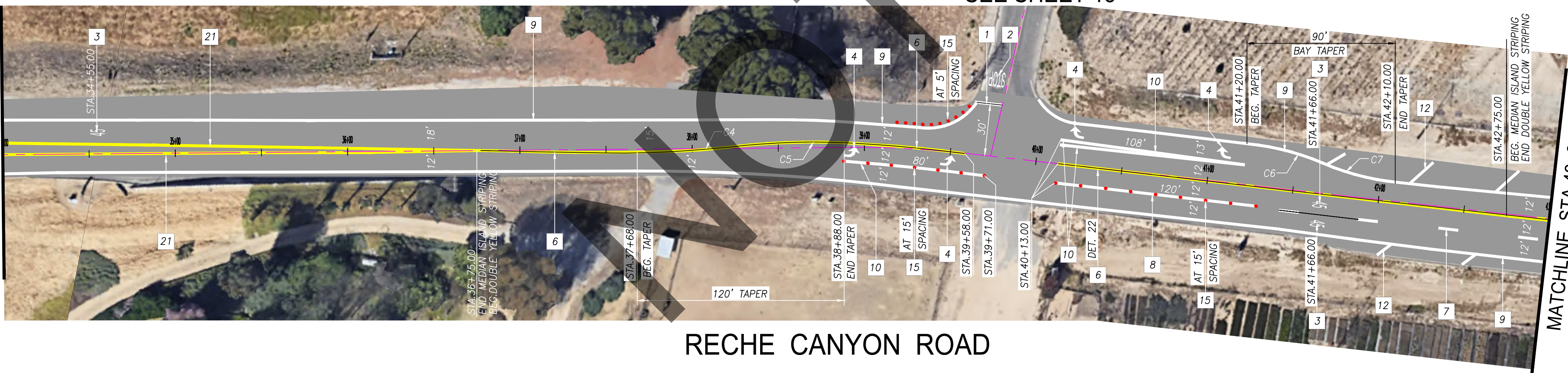
RECHE CANYON ROAD

BANAS ROAD



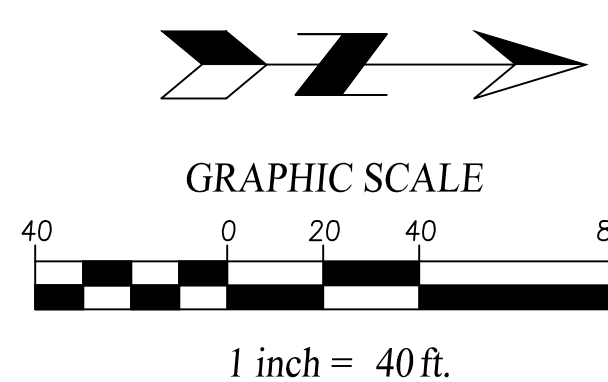
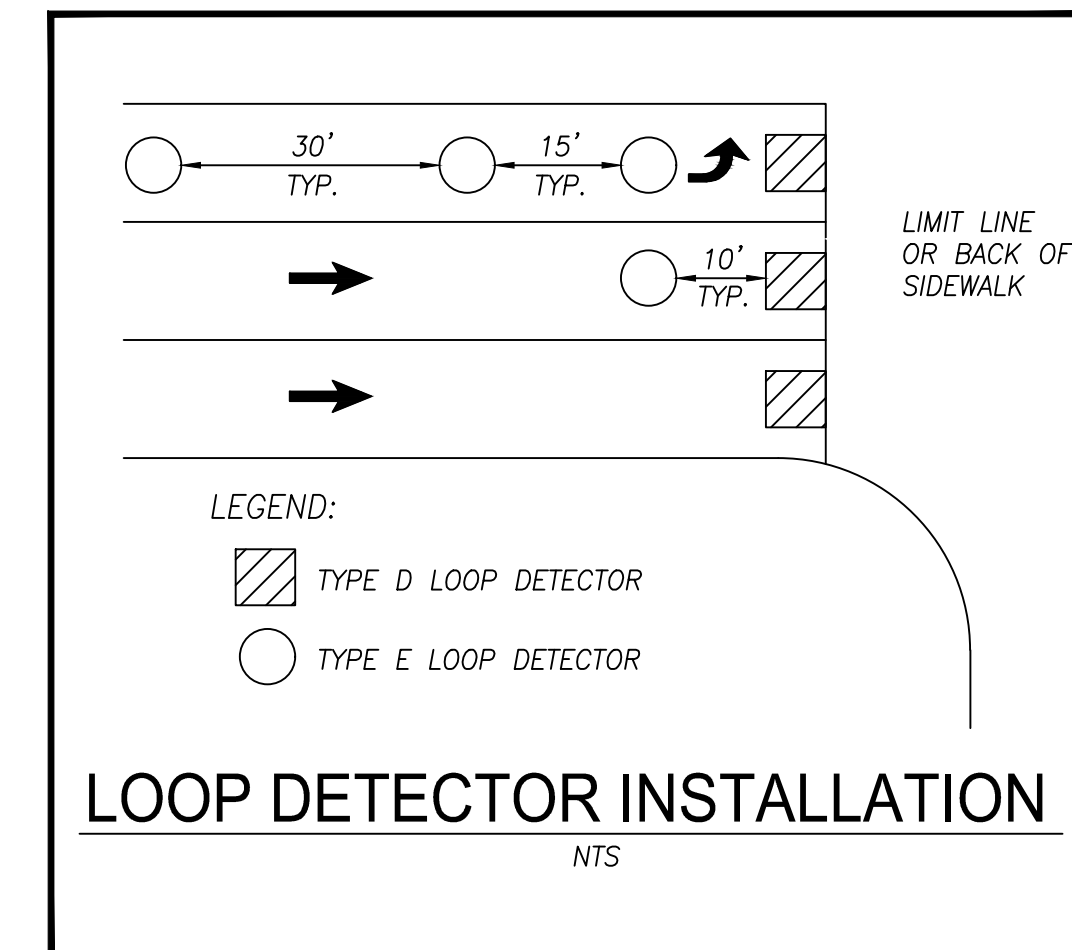
RECHE CANYON ROAD

WESTWOOD STREET
SEE SHEET 15



RECHE CANYON ROAD

CURVE DATA				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	68.37	328.00	11°56'35"	34.31
C2	53.24	328.00	9°18'03"	26.68
C3	37.44	55.00	39°00'00"	19.48
C4	37.02	400.00	5°18'11"	18.52
C5	82.34	400.00	11°47'39"	41.32
C6	45.62	146.43	17°50'57"	22.99
C7	45.62	146.43	17°50'57"	22.99
C8	53.41	143.00	21°23'54"	27.02
C9	45.43	190.50	13°39'49"	22.82
C10	45.43	190.50	13°39'49"	22.82
C11	53.41	143.00	21°23'54"	27.02
C12	45.44	187.88	13°51'29"	22.83
C23	45.44	187.88	13°51'29"	22.83



Underground Service Alert
 CALL 811
 TWO WORKING DAYS BEFORE YOU DIG

PLANS PREPARED UNDER THE SUPERVISION OF:
NV5
 WWW.NV5.COM
 133 TECHNOLOGY DRIVE
 SUITE 200 IRVINE, CA 92618
 TEL (949) 368-0477

REGISTERED PROFESSIONAL ENGINEER
 DAVID NIKKAFS
 No. 42697
 CIVIL
 STATE OF CALIFORNIA

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

FIELD CHANGES

SAN BERNARDINO COUNTY
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: AB
 DRAWN BY: AB
 CHECKED BY: DN
 RECOMMENDED BY: [Signature] 8/15/2024
 DATE: 8/15/2024

APPROVED BY: [Signature] 8/22/24
 DATE: 8/22/24

LEI LI, P.E. SUPERVISING ENGINEER
 GRANT MANN, P.E. DEPUTY DIRECTOR

TRANSPORTATION PLANS FOR CONSTRUCTION ON RECHE CANYON ROAD AND OTHER ROADS, COLTON AREA
 STRIPING PLAN-RECHE CANYON ROAD
 SAN BERNARDINO COUNTY AND IN THE CITY OF COLTON

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
	H15172	AS SHOWN	9	17

