

**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.

# SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS



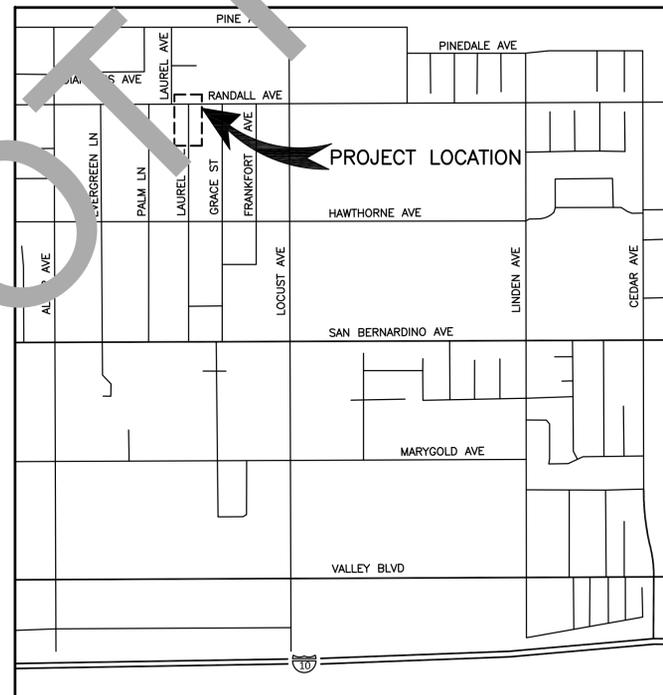
## TRANSPORTATION PLANS FOR CONSTRUCTION ON LAUREL AVE AT RANDALL AVE DRAINAGE IMPROVEMENTS

### AT THE INTERSECTION OF LAUREL AVE AND RANDALL AVE

WORK ORDER NO. H15101

ROAD NO. 487800 - 030, 688000 - 020

LENGTH = 176 FEET



**LOCATION MAP**

NOT TO SCALE

### SAN BERNARDINO COUNTY

APPROVED BY: \_\_\_\_\_  
BRENDON P. BIGGS, M.S., P.E., DIRECTOR OF PUBLIC WORKS R.C.E. 57127

DATE

APPROVED BY: \_\_\_\_\_  
DAVID R. DOUBLET, M.S., P.E., ASSISTANT DIRECTOR OF PUBLIC WORKS R.C.E. 61291

DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES		SHT. NO.	TOT. SHT'S.
		1	4

MARK	REVISIONS	DATE
MARK	REVISIONS	DATE

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 PROJECT NOTES, INDEX MAP, AND LEGENDS
- 3 TYPICAL SECTIONS
- 4 PLAN AND PROFILE SHEET
- 1-3 SECTIONS

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

SPEC DWG 109 119 115 MODIFIED  
 SPEC DWG 135C MODIFIED 303, 303a

TO BE SUPPLEMENTED BY THE FOLLOWING CALTRANS STANDARD PLANS DATED 2015.

T3B RSP T9 RSP T10 T13

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

A20B A24D A24E A62A P10

TO BE SUPPLEMENTED BY THE FOLLOWING CA MUTCD 2014 REVISION 4.

FIG 2A-2(CA) FIG 3B-102(CA)

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

GENERAL NOTES

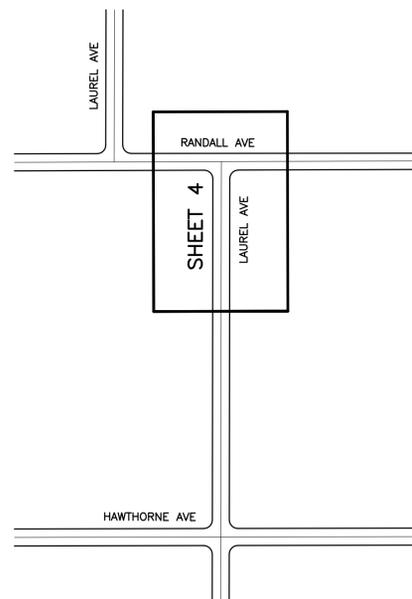
- U. THE FACT THAT ANY UTILITY FACILITY IS SHOWN OR NOT SHOWN UPON THE PLANS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY UNDER SECTION 5-1.36D "NON-HIGHWAY FACILITIES," OF THE CALTRANS STANDARD SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, PURSUANT THERETO, TO ASCERTAIN THE 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 SUR LAUREL AVENUE AND CL SUR RANDALL AVENUE.
- 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.
- 5. ASPHALT CONCRETE OVERLAYS SHALL BE FEATHERED TO MEET EXISTING AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER.
- 6. ALL TREES & VEGETATION OUTSIDE THE LIMITS OF EXCAVATION AND EMBANKMENT SLOPE LINES, SHALL BE PROTECTED IN PLACE.

BASIS OF BEARINGS:

THE CENTERLINE OF LAUREL AVENUE, FROM HAWTHORNE AVE TO RANDALL AVE (PT. 2-PT. 1) PER TRACT NO. 3103, MB 43/80-81, BEING N00°19'00"W

BENCH MARK:

FD L/T SBCO SURV DN 0.05' IN CONC, PER CSFB 4016/2010 ASSUMED ELEVATION = 100.00'



INDEX MAP

NTS

ABBREVIATIONS LEGEND:

- AB = AGGREGATE BASE
- AC = ASPHALT CONCRETE
- BCR = BEGIN CURB RETURN
- BEG = BEGINNING
- CL = CENTER LINE
- CONC = CONCRETE
- C&G = CURB & GUTTER
- DWY = DRIVEWAY
- ECR = END CURB RETURN
- ELEV = ELEVATION
- EP = EDGE OF PAVEMENT
- EXIST = EXISTING
- GB = GRADATION
- GRD = GROUND
- LOC = LENGTH OF CURVE
- NTS = NOT TO SCALE
- OG = ORIGINAL GROUND
- PEC = PERMIT TO ENTER AND CONSTRUCT
- PC = PORTLAND CEMENT CONCRETE
- RT = RIGHT
- R/W = RIGHT OF WAY
- RUR = RURAL
- S = STREET
- ST = STOP
- TC = TOP OF CURB
- TC = TOP OF FACE OF CURB
- THK = THICK
- TRANS = TRANSITION
- TYP = TYPICAL
- V = VARIES
- W = WATER
- W = WHITE STRIPE
- WPJ = WEAKENED PLANE JOINT
- EJ = EXPANSION JOINT

CONSTRUCTION & UNDERGROUND UTILITY LEGEND

- [Symbol] ASPHALT CONCRETE PAVEMENT
- [Symbol] COLD PLANE
- [Symbol] PORTLAND CEMENT CONCRETE (PLAN)
- [Symbol] PORTLAND CEMENT CONCRETE (SECTION)
- [Symbol] AGGREGATE BASE
- [Symbol] PROPOSED SLOPE
- [Symbol] EXISTING SLOPE
- [Symbol] GAS LINE
- [Symbol] SEWER MAIN
- [Symbol] WATER LINE
- [Symbol] ELECTRIC LINE
- [Symbol] TELEPHONE LINE

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 IN CONFORMANCE WITH THE CALTRANS STANDARD PLANS LATEST EDITION.
- 3- ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETRO-REFLECTIVE PAINT.
- 4- ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETRO-REFLECTIVE SHEETING EXCEPT:
  - A. "STOP" SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS) RETRO-REFLECTIVE SHEETING.
  - B. "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETRO-REFLECTIVE SHEETING.
  - C. SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETRO-REFLECTIVE SHEETING.
  - D. STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETRO-REFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
  - E. CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
- 5- ALL DELINEATORS, CHANNELIZERS AND OBJECT MARKERS SHALL BE OF (FHWA TYPE VII) RETRO-REFLECTIVE 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 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 SUCH AS 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.

CONSTRUCTION NOTES:

- U UTILITIES TO BE RESET BY OTHERS (SEE NOTE U. OF GENERAL NOTES ON SHEET 2).
- 1 PROTECT IN PLACE.
- 2 COLD PLANE (0.15' THK) EXISTING ASPHALT CONCRETE PAVEMENT AND PLACE (0.15' THK) ASPHALT CONCRETE OVERLAY 2' WIDE MINIMUM.
- 3 SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING.
- 4 SAWCUT, REMOVE AND DISPOSE EXISTING CURB.
- 5 CONSTRUCT 8" CURB AND GUTTER PER COUNTY STANDARD 115 (MODIFIED).
- 6 SAWCUT, REMOVE AND DISPOSE EXISTING CONCRETE PAVEMENT AND ASPHALT TREATED PERMEABLE BASE (ATPB).
- 7 CONSTRUCT 8" CURB AND GUTTER PER COUNTY STANDARD 115 MONOLITHICALLY WITH CONCRETE PAVEMENT.
- 8 PLACE (0.50' THK) TYPE A, 3/4" AGGREGATE GRADATION, PG 70-10 HMA, OVER (0.35' THK) CLASS-2-BASE OVER COMPACTED NATIVE SOIL.
- 9 CONSTRUCT DRIVEWAY APPROACH PER SPECIAL DRAWING 135C.
- 10 CONSTRUCT 8" FAST SETTING CONCRETE PAVEMENT OVER COMPACTED EARTH OR CLASS II BASE, DOWEL INTO EXISTING CONCRETE AND JOINTS PER CALTRANS STANDARD P10.
- 11 CONSTRUCT 12' CROSS GUTTER PER MOD SPECIAL DRAWING 119A SHOWN ON SHEET 3
- 12 SAWCUT AND REMOVE EXISTING CONCRETE DRIVEWAY AS NECESSARY FOR CONSTRUCTION.

TRAFFIC SIGNING AND STRIPING NOTES:

- 51 REMOVE AND RESET EXISTING ROADSIDE SIGN PER CA MUTCD 2014, FIG 2A-2(CA).
- 52 REPAINT STOP PAVEMENT MARKING PER THE 2018 CALTRANS STANDARD PLANS A24E.
- 53 REPAINT 12" WHITE LIMIT LINE PER THE 2018 CALTRANS STANDARD PLAN A24E.
- 54 REPAINT 6" WHITE EDGE LINE STRIPE PER THE 2018 CALTRANS STANDARD PLAN A20B, DETAIL 27B.

DATE	
APPR.	
REVISIONS	
MARK	

DATE	
APPR.	
REVISIONS	
MARK	

FILE NO. 487800-030, 688000-020

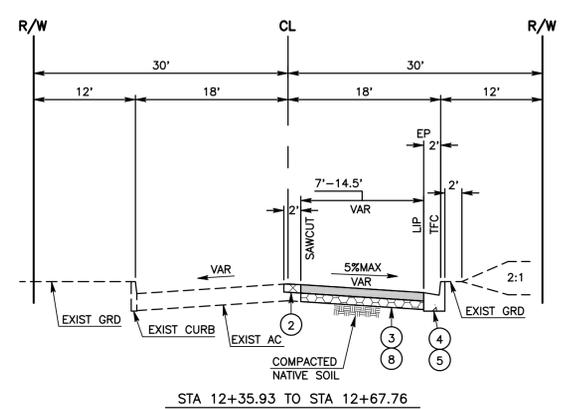
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MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
<b>FIELD CHANGES</b>			

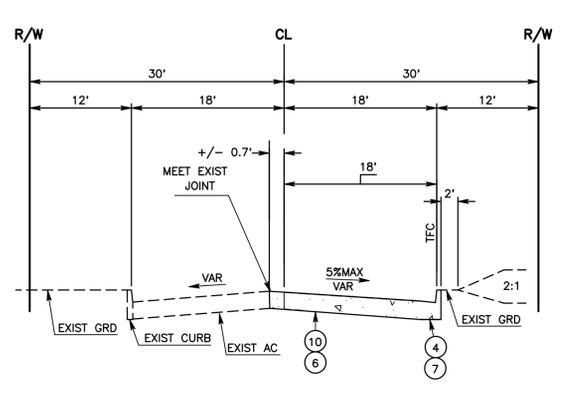


SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
SB	MDV	DJ	MERVIAT N. MIKHAIL, P.E. ENGINEERING MANAGER
APPROVED BY:			DATE
THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER			DATE
NOEL CASTILLO, P.E. DEPUTY DIRECTOR			DATE

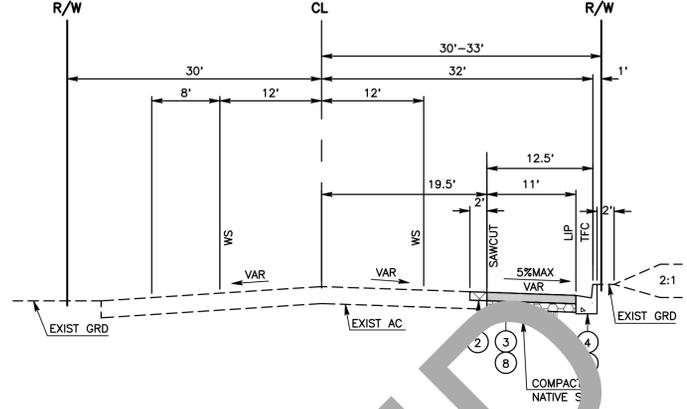
<b>LAUREL AVE AT RANDALL AVE</b>				
PROJECT NOTES, INDEX MAP, AND LEGENDS				
FONTANA				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L.11772	H15101	NTS	2	4



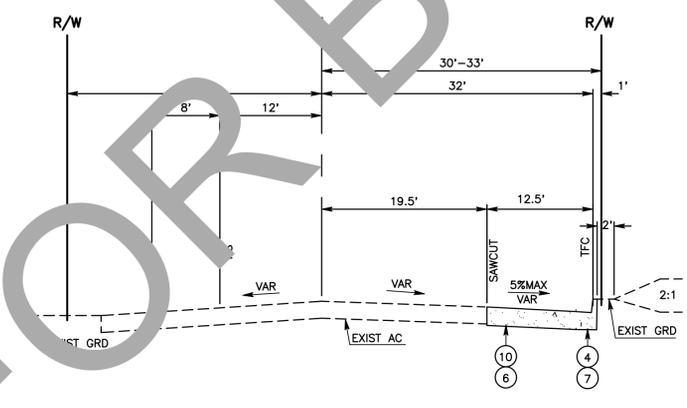
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NTS



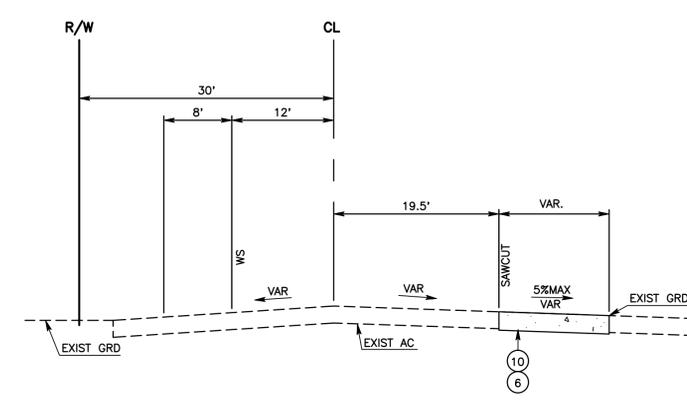
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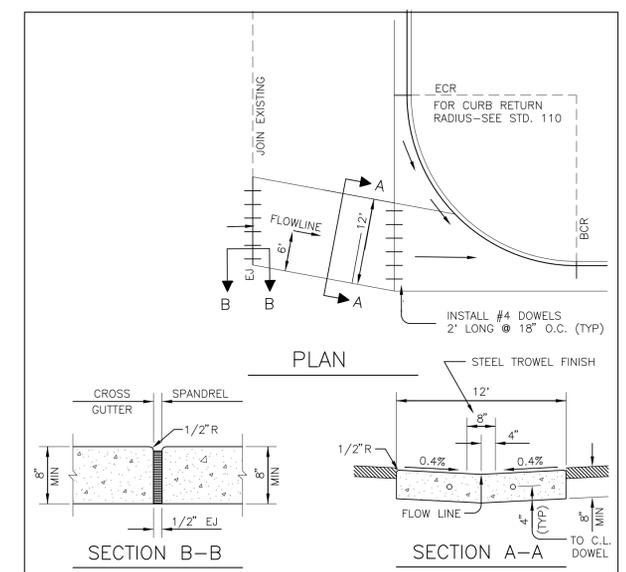
TYPICAL SECTION RANDALL AVE  
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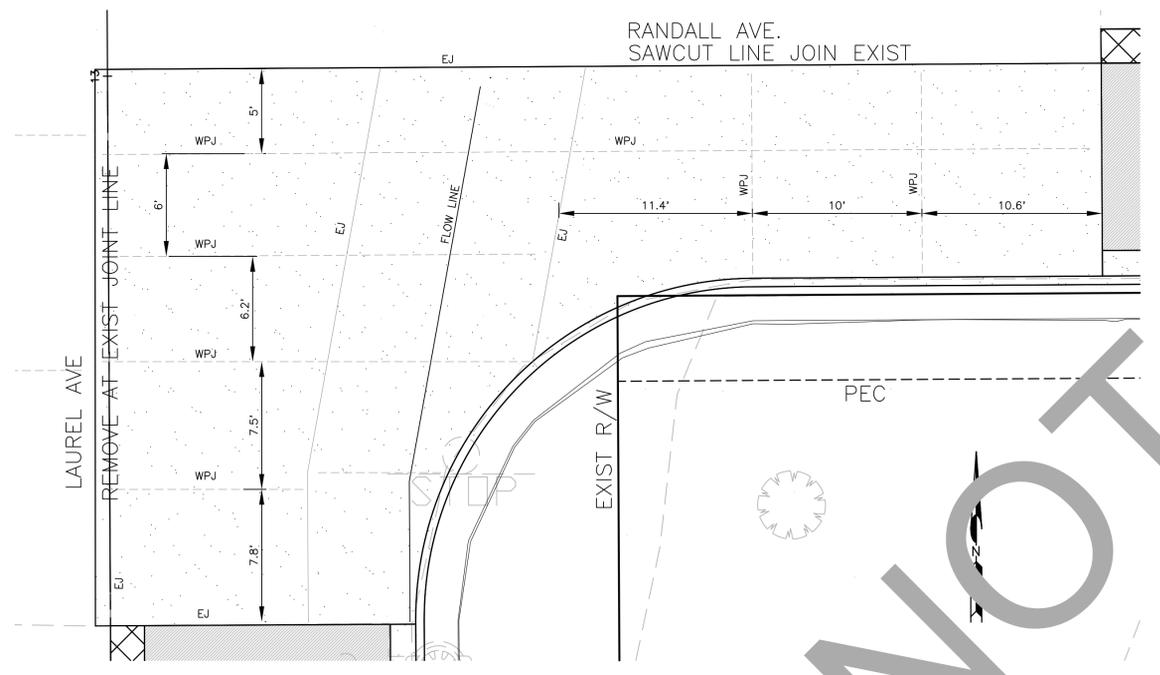
NOTES:

THIS STANDARD SHOULD ONLY BE USED TO IMPROVE DRIVABILITY AT HIGH-SPEED OR SIGNALIZED INTERSECTIONS AT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.

- THE CROSS GUTTER & SPANDREL SHALL BE CONSTRUCTED OF MINOR CONCRETE (MINOR STRUCTURE SLAB)
- WEAKENED PLANE JOINTS ALONG THE CROSS GUTTER SHALL BE CONSTRUCTED AT 8' MAXIMUM SPACING OR 6' SPACING TO SPLIT TRAFFIC LANES.

EJ INDICATES PREMOLDED EXPANSION JOINT FILLER PER ASTM DESIGNATION D 1751.  
WPJ INDICATES WEAKENED PLANE JOINT.

REV.	DATE	APPR.	SAN BERNARDINO COUNTY DEPT OF PUBLIC WORKS	MOD
			12' CROSS GUTTER (SECONDARY & MAJOR HIGHWAYS)	SPEC DWG. 119A



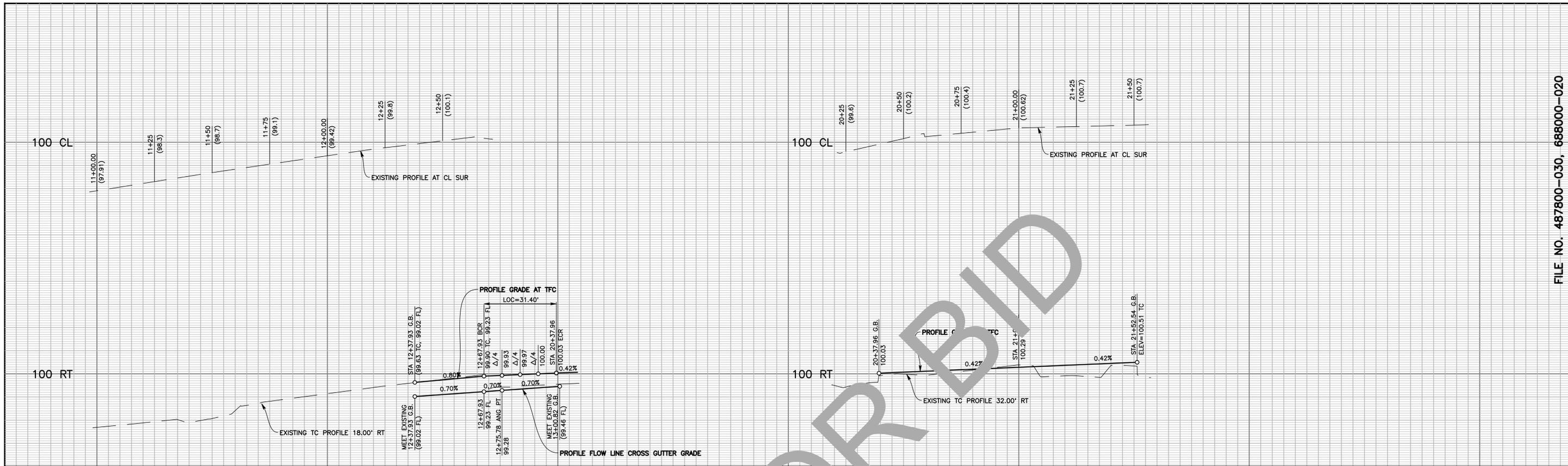
WPJ & EJ DETAIL  
NTS

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  - CONSTRUCT 8" FAST SETTING CONCRETE PAVEMENT OVER COMPACTED EARTH OR CLASS II BASE, DOWEL INTO EXISTING CONCRETE AND JOINTS PER CALTRANS STANDARD P10.

MARK	REVISIONS	DATE

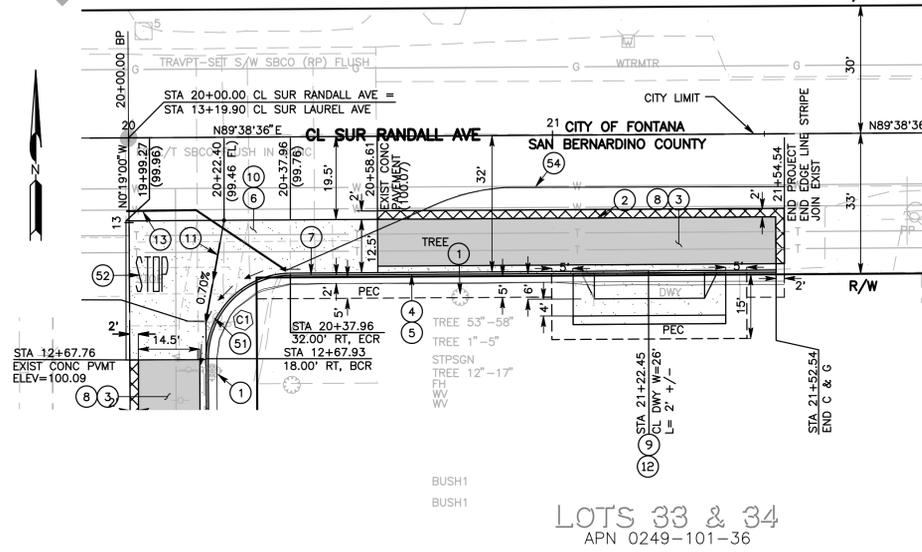
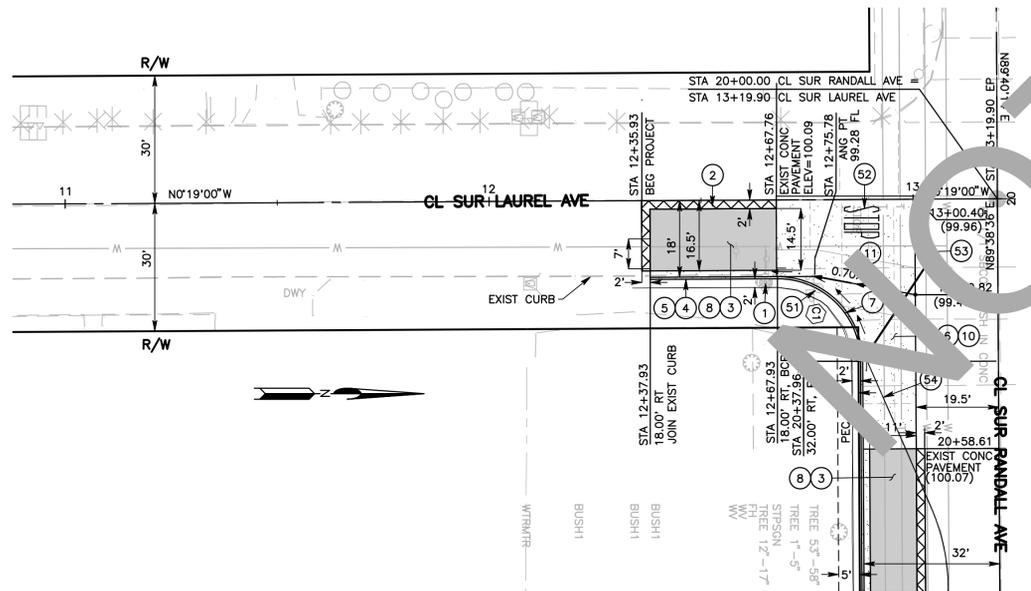
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FIELD CHANGES MARK CHANGES NO CHANGES RESIDENT ENGINEER DATE			SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS		LAUREL AVE AT RANDALL AVE TYPICAL SECTIONS FONTANA	
DESIGNED BY: SB DRAWN BY: MDV CHECKED BY: DJ RECOMMENDED BY: MERVAT N. MIKHAIL, P.E. ENGINEERING MANAGER APPROVED BY: THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER			DATE: _____ DATE: _____ DATE: _____ DATE: _____		J.L. REF. J.L.11772 W.O. NO. H15101 PLAN SCALE NTS SHT. NO. 3 TOT. SHT'S. 4	



PROFILE  
SCALE: HORIZ 1" = 20'  
VERT 1" = 2'

CURB RETURN TABLE				
NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	89°57'36"	20.00'	31.40'	19.99



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MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		

**FIELD CHANGES**



**SAN BERNARDINO COUNTY  
DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: SB DRAWN BY: MDV CHECKED BY: DJ RECOMMENDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER

**LAUREL AVE  
AT RANDALL AVE  
PLAN AND PROFILE  
FONTANA**

J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L.11772	H15101	1" = 20'	4	4