

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**

PUBLIC WORKS

DRAIN

DRAINAGE AND TRAFFIC SIGNAL IMPROVEMENT

BLOOMINGTON AREA

The map displays the project locations in Fontana, CA. The main thoroughfare is Freeway I-10, which runs horizontally across the top. Slover Avenue runs vertically, intersecting I-10. Three project locations are identified with rectangular boxes: one at the intersection of Alder Avenue and Slover Avenue, one at the intersection of Locust Avenue and Slover Avenue, and one at the intersection of Orchard Avenue and Slover Avenue. Arrows point from the 'PROJECT LOCATIONS' label to each of these three boxes. Other streets shown include Marygold Ave, Valley Blvd, Taylor Ave, Sierra Ave, Tamaring Ave, Otilla St, Laurel Avenue, Santa Ana Ave, Jurupa Ave, Linden Ave, Valencia St, and Cedar Ave. A north arrow is located in the top right corner.

NOT TO SCALE

APPROVED BY: _____ DATE: _____
Brendon Biggs, M.S., P.E. Director of Public Works, R.C.E. 57127

MARK	CHANGES		
	NO CHANGES	RESIDENT ENGINEER	DATE
FIELD CHANGES		SHT. NO.	TOT. SHT'S.
		1	7

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

TO BE SUPPLEMENTED BY THE FOLLOWING
2015 CALTRANS STANDARD PLANS:

TO BE SUPPLEMENTED BY THE FOLLOWING
2018 CALTRANS STANDARD PLANS:

TO BE SUPPLEMENTED BY THE FOLLOWING
2014 MUTCD STANDARD PLANS:

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

1. ALL STATIONING NOTES ON PLAN REFER TO THE CL SUR/MP SLOVER AVENUE OR SIDE STREETS.
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.

THE CENTERLINE OF SLOVER AVE BETWEEN PALMETTO AVE AND TAMARIND AVE PER
TRACT 8393, MAP BOOK 114/46-57 BEING N89°28'45"E

"TBM#5" - FOUND CHISLEL BOX AT THE ECR OF THE SOUTHEAST CURB RETURN - 57' EAST OF MAPLE AVE AND 40' SOUTH OF SLOVER AVE. PER CSFB 4016/1572. ELEVATION = 1076.07'



	COLD PLANE
	ASPHALT CONCRETE PAVEMENT
	PORTLAND CEMENT CONCRETE PLAN
	PORTLAND CEMENT CONCRETE SECTION
	GRADED EARTH
	REMOVE ASPHALT
	REMOVE CONCRETE

AB	=	AGGREGATE BASE	PCC	=	PORTLAND CEMENT CONCRETE
AC	=	ASPHALT CONCRETE	PI	=	POINT OF INTERSECTION
AVE	=	AVENUE	RT	=	RIGHT
BCR	=	BEGIN CURB RETURN	R/W	=	RIGHT OF WAY
BEG	=	BEGIN	SBC	=	SAN BERNARDINO COUNTY
CL	=	CENTER LINE	STA	=	STATION
C&G	=	CURB & GUTTER	ST	=	STREET
DWG	=	DRAWING	STD	=	STANDARD
ECR	=	END CURB RETURN	SUR	=	SURVEY
EG	=	EXISTING GROUND	SW	=	SIDEWALK
EP	=	EDGE OF PAVEMENT	TC	=	TOP OF CURB
EXIST	=	EXISTING	THK	=	THICK
FL	=	FLOW LINE	VC	=	VERTICAL CURVE
GB	=	GRADE BREAK	WPJ	=	WEAKENED PLANE JOINT
IMP	=	IMPROVEMENT			
L	=	LENGTH			
LT	=	LEFT			
NTS	=	NOT TO SCALE			
MAX	=	MAXIMUM			
MIN	=	MINIMUM			

- 1 UTILITIES TO BE RELOCATED BY OTHERS
- 2 COLD PLANE (0.20" THK) EXISTING ASPHALT CONCRETE PAVEMENT AND
- 3 PLACE (0.20" THK) ASPHALT CONCRETE OVERLAY
- 4 SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING
- 5 SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING, CURB AND GUTTER
- 6 PLACE (0.50" THK) ASPHALT CONCRETE (TYPE A) PAVEMENT OVER COMPACTED SOIL
- 7 PROTECT IN PLACE
- 8 PLACE SPANDEL PER SBC STD DWG 119 (MODIFIED)
- 9 PLACE CURB AND GUTTER PER SBC STD 115
- 10 PLACE CROSS GUTTER PER SBC STD DWG 119 (MODIFIED) AND INSTALL DOWELS PER
- 11 CALTRANS STD P1,P10 & P20 AS APPLICABLE
- 12 PLACE (3" THK) ASPHALT CONCRETE (TYPE A) OVER COMPACTED NATIVE SOIL
- 13 PLACE (0.40" THK) ASPHALT CONCRETE PAVEMENT (TYPE A, PG 70-10)
- 14 OVER (0.35" THK) CLASS 2 AGGREGATE BASE
- 15 CONSTRUCT 4" THK CONCRETE DRIVEWAY APPROACH PER DETAIL ON SHEET 4
- 16 CONSTRUCT RAMP PER 2015 CALTRANS STANDARD RSP AB8A
- 17 PLACE IMPORTED BORROW TO MEET GRADE
- 18 PLACE 4" THK CONCRETE SIDEWALK PER SBC STD DWG 109 (MODIFIED)
- 19 REMOVE AND REPLACE TRAFFIC SIGNAL PUL BOX
- 20 PLACE LOOSE ROCKS (BACKING NO.3 CLASS, METHOD B PLACEMENT)
- 21 PLACE CONCRETE DRAINAGE STRUCTURE PER SPECIAL DRAWING 100
- 22 REMOVE AND REPLACE ROCK LANDSCAPING, PLANTS AND IRRIGATION SYSTEM IN KIND
- 23 PLACE LOCAL DEPRESSION PER SPECIAL DRAWING 100
- 24 SAWCUT AND REMOVE ASPHALT CONCRETE DIKE
- 25 PLACE 8" ASPHALT CONCRETE DIKE PER SAN BERNARDINO COUNTY STD DWG 117
- 26 REMOVE AND RESET GAS PADDLE
- 27 PLACE DETECTABLE WARNING SURFACE PER 2015 CALTRANS STANDARD RSP AB8A
- 28 TRAFFIC SIGNAL POLES, BOXES AND CONDUIT PER TRAFFIC SIGNAL PLAN SHEET 7
- 29 PLACE 6" RETAINING CURB PER 2015 CALTRANS STANDARD RSP AB8A

[illegible]

FILE NO. 760800-050, 110650-020, 500400-030, 495900-020/030

[illegible]

COUNTY OF SAN BERNARDINO					
DEPARTMENT OF PUBLIC WORKS					
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:		
<u>ESR/CBB</u>	<u>CBB</u>	<u>SB</u>			
			MERVAT N. MIKHAIL, P.E.	DATE _____	
			TRANSPORTATION DESIGN DIVISION CHIEF		
			APPROVED BY:		
ELOY RUVALCABA, P.E. DESIGN ENGINEER	DATE _____		DAVID R. DOUBLET, M.S., P.E. ASSISTANT DIRECTOR	DATE _____	

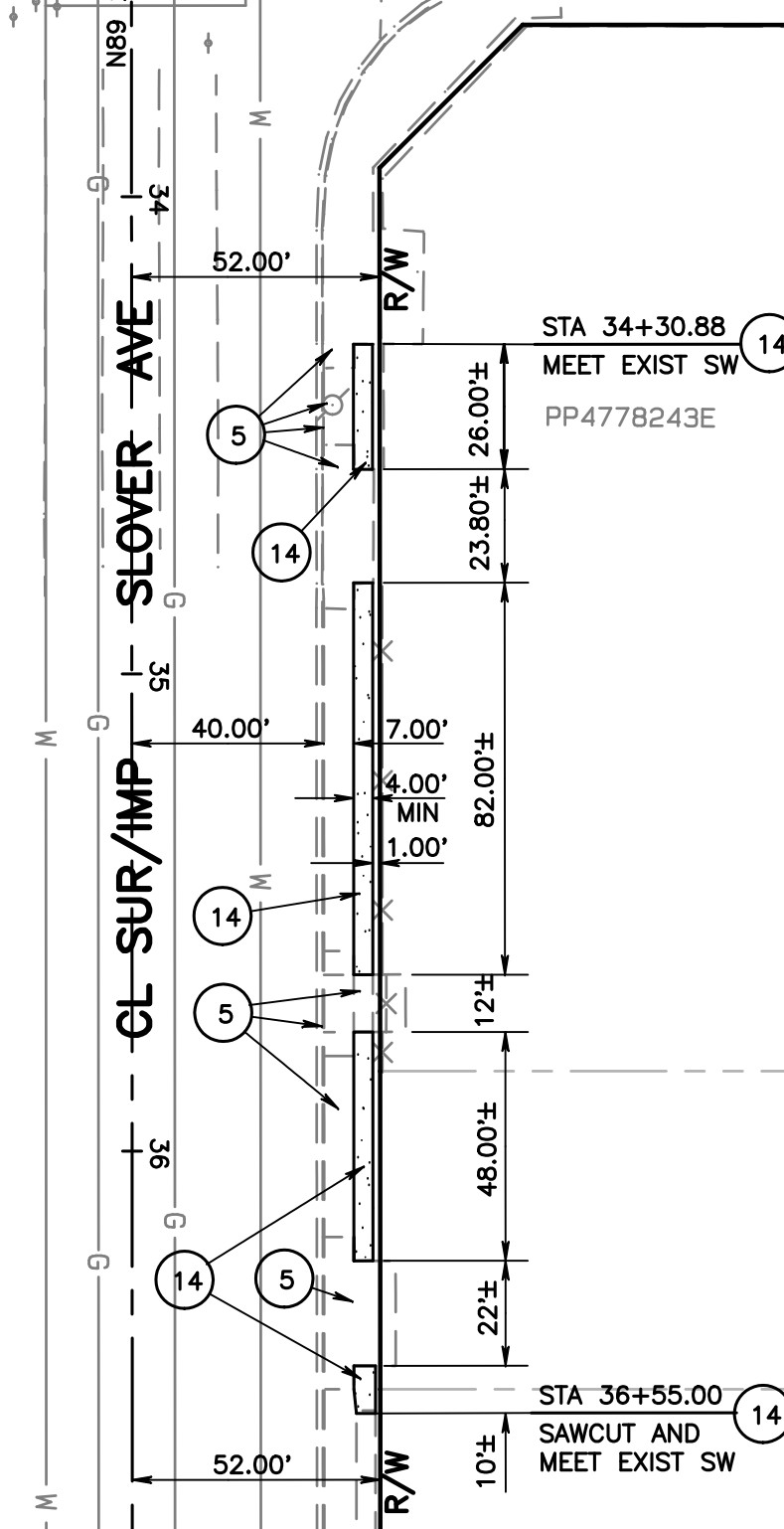
SLOVER AVENUE DRAINAGE AND TRAFFIC SIGNAL IMPROVEMENT

NOTES, INDEX MAP, LEGENDS, INDEX OF
SHEETS, TYP SECTIONS AND MISC DETAILS

BLOOMINGTON AREA

J/L REF.	W.D. NO.	SCALE	SHT. NO.	TOT. SHT'S.
JL11543	H14967 H14970	AS SHOWN	2	7

\\Design_Team - B\SLOVER AVE Driftnose Inst H14970 Em2 - Clouds\Tmode\H14967 & H14970 Slover Ave and Others Combined.dwg -- MODIFIED 3/29/2021 0:00:24PM



CONSTRUCTION NOTES:	
U	UTILITIES TO BE RELOCATED BY OTHERS
1	COLD PLANE (0.20" THK) EXISTING ASPHALT CONCRETE PAVEMENT AND
2	PLACE (0.20" THK) ASPHALT CONCRETE OVERLAY
3	SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING
4	SAW CUT AND REMOVE EXISTING CONCRETE SURFACING, CURB AND GUTTER
5	PLACE (0.50" THK) ASPHALT CONCRETE PAVEMENT (TYPE A) OVER COMPACTED SOIL
6	PROTECT IN PLACE
7	PLACE CURB AND GUTTER PER SBC STD 115
10	PLACE (0.40" THK) ASPHALT CONCRETE PAVEMENT (TYPE A, PG 70-10)
11	OVER (0.35" THK) CLASS 2 AGGREGATE BASE
14	PLACE 4" THK CONCRETE SIDEWALK PER SBC STD DWG 109 (MODIFIED)
16	PLACE LOSE ROCK (BACKING NO.3 CLASS, METHOD B PLACEMENT)
17	PLACE CONCRETE DRAINAGE STRUCTURE PER SPECIAL DRAWING 100
18	REMOVE AND REPLACE ROCK LANDSCAPING, PLANTS AND IRRIGATION SYSTEM IN KIND
19	PLACE LOCAL DEPRESSION PER SPECIAL DRAWING 100
20	SAWCUT AND REMOVE ASPHALT CONCRETE DIKE
21	PLACE 8" ASPHALT CONCRETE DIKE PER SAN BERNARDINO COUNTY STD DWG 117
22	REMOVE AND RESET GAS PADDLE

MARK	REVISIONS	APPR.	DATE

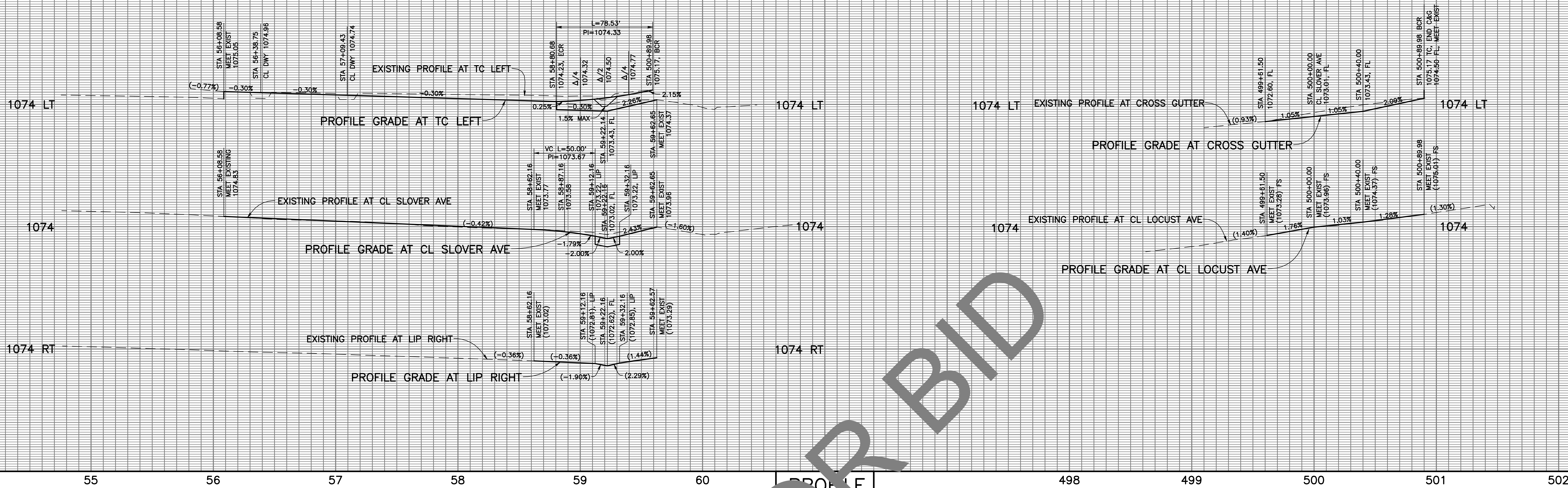
GRAPHIC SCALE 1"=40'

A horizontal graphic scale bar. The top part is divided into four equal segments, each 20 feet long. The first segment is black, the second is white, the third is black, and the fourth is white. Below the bar, the numbers 0, 40, 80, and 120 are printed at the corresponding segment boundaries.

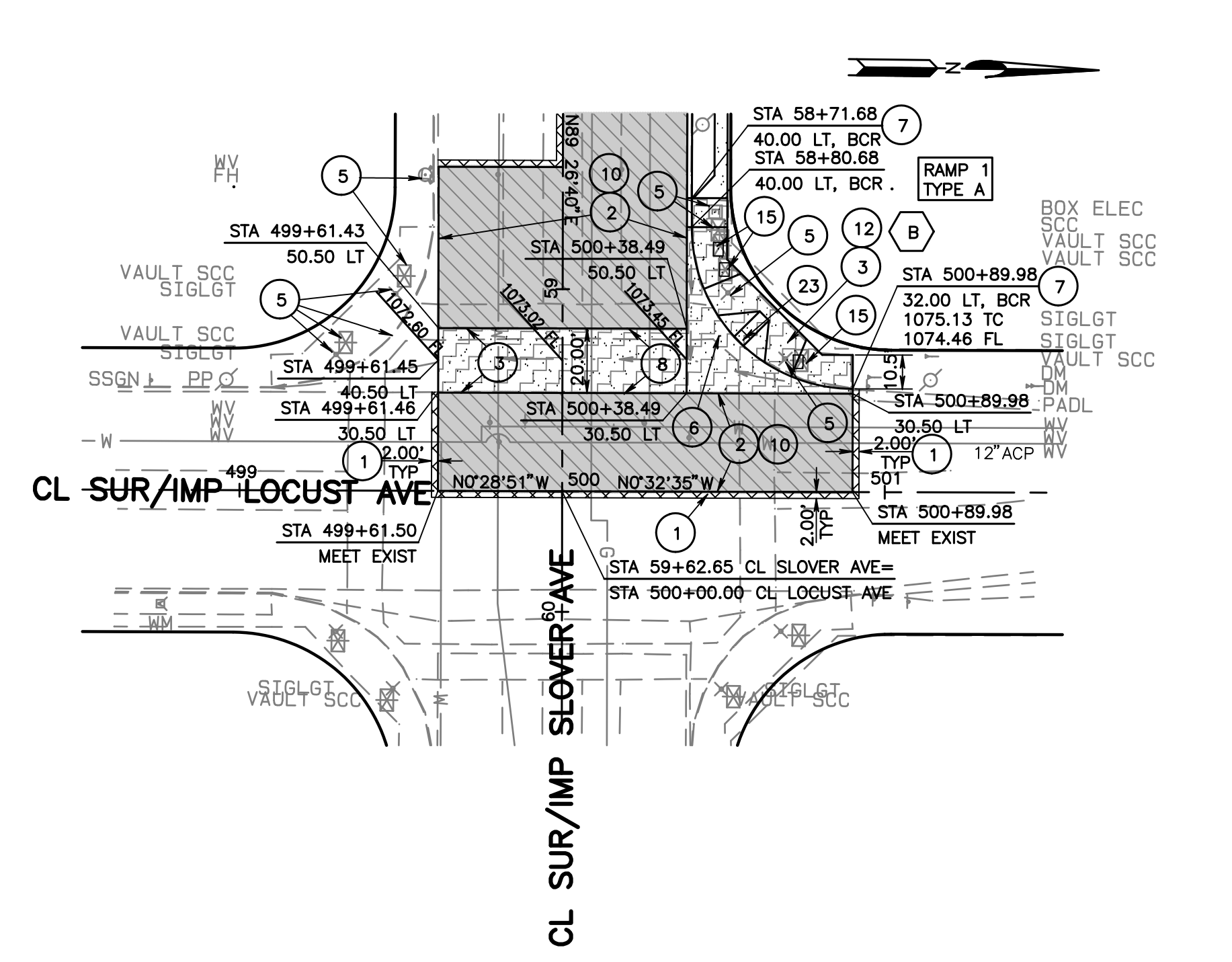
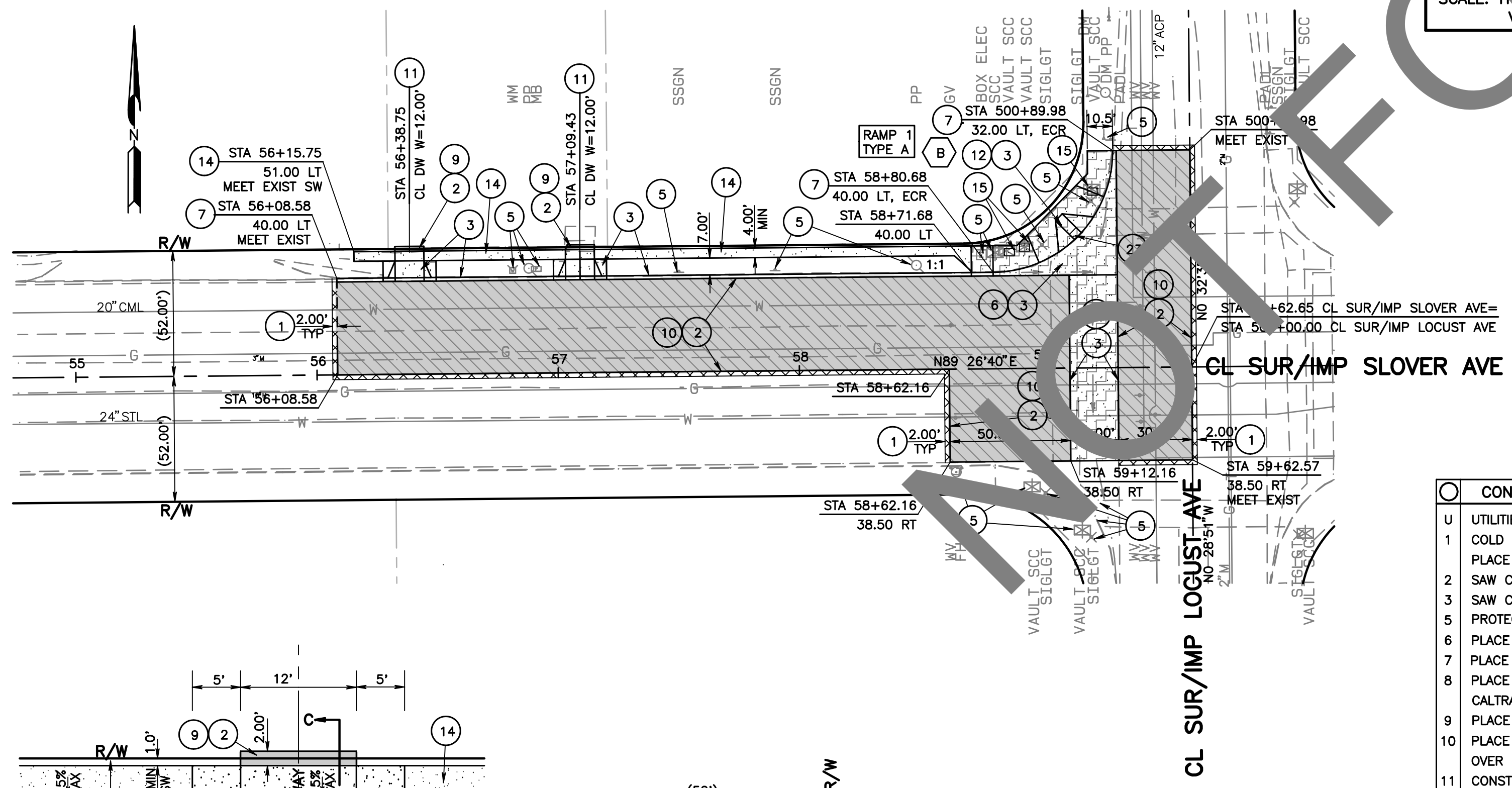
COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: <u>ESR/CBB</u>	DRAWN BY: <u>CBB</u>	CHECKED BY: <u>SB</u>	RECOMMENDED BY: MERVAT N. MIKHAIL, P.E. TRANSPORTATION DESIGN DIVISION CHIEF _____ DATE
 ELOY RUVALCABA, P.E. DESIGN ENGINEER _____ DATE			APPROVED BY: DAVID R. DOUBLET, M.S., P.E. ASSISTANT DIRECTOR _____ DATE

BLOOMINGTON AREA

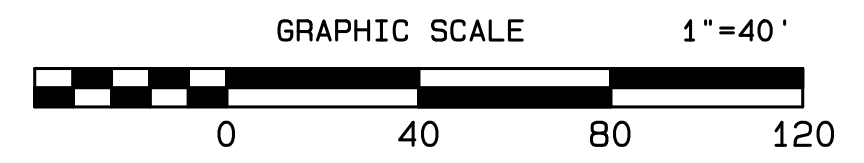
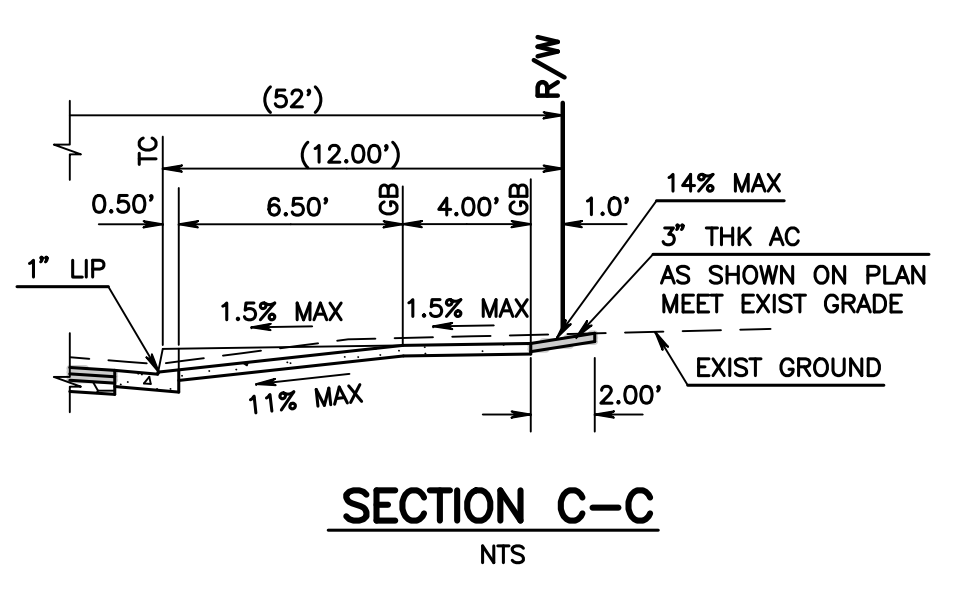
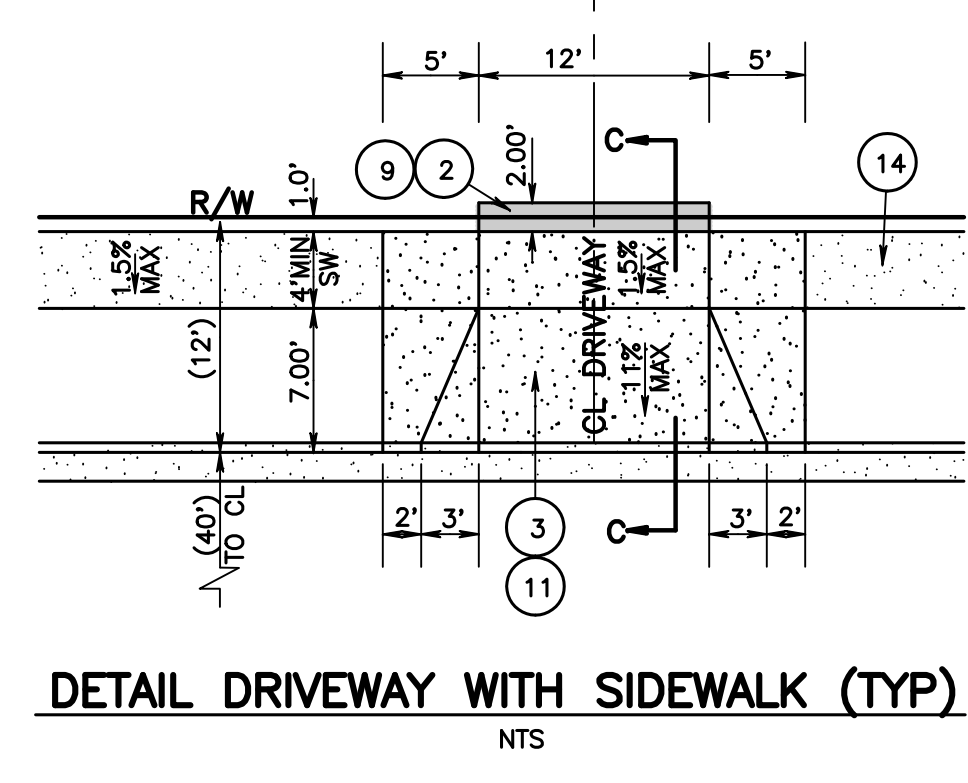
J.L. REF.	W.O. NO.	SCALE	SHT. NO.	TOT. SHT'S.
JL11543	H14970	AS SHOWN	3	7



TC RETURN DATA				
Δ	R	L	T	
89°59'15"	50.00'	78.53'	49.99'	



- CONSTRUCTION NOTES:**
- UTILITIES TO BE RELOCATED BY OTHERS
 - COLD PLANE (0.20' THK) EXISTING ASPHALT CONCRETE PAVEMENT AND PLACE (0.20' THK) ASPHALT CONCRETE OVERLAY
 - SAW CUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING
 - SAW CUT AND REMOVE EXISTING CONCRETE SURFACING, CURB AND GUTTER
 - PROTECT IN PLACE
 - PLACE SPANDREL PER SBC STD AND 119 (MODIFIED)
 - PLACE CURB AND GUTTER PER SBC STD 115
 - PLACE CROSS GUTTER PER SBC STD DWG 119 (MODIFIED) AND INSTALL DOWELS PER CALTRANS STD P1,P10 & P20 AS APPLICABLE
 - PLACE 3" THK ASPHALT CONCRETE (TYPE A) OVER COMPACTED NATIVE SOIL
 - PLACE (0.40' THK) ASPHALT CONCRETE PAVEMENT (TYPE A, PG 70-10) OVER (0.35' THK) CLASS 2 AGGREGATE BASE
 - CONSTRUCT 4" THK CONCRETE DRIVEWAY APPROACH PER DETAIL ON THIS SHEET
 - CONSTRUCT RAMP PER 2015 CALTRANS STANDARD RSP A88A
 - PLACE 4" THK CONCRETE SIDEWALK PER SBC STD DWG 109 (MODIFIED)
 - REMOVE AND REPLACE TRAFFIC SIGNAL PULL BOX
 - PLACE DETECTABLE WARNING SURFACE PER 2015 CALTRANS STANDARD RSP A88A



FIELD CHANGES	
MARK	CHANGES
NO CHANGES	RESIDENT ENGINEER
	DATE



COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
ESR/CBB	CBB	SB	MERVAT N. MIKHAIL, P.E. TRANSPORTATION DESIGN DIVISION CHIEF
APPROVED BY:		DATE	
ELOY RUVALCABA, P.E. DESIGN ENGINEER		DAVID R. DOUBLET, P.E. ASSISTANT DIRECTOR	

SLOVER AVENUE DRAINAGE AND TRAFFIC SIGNAL IMPROVEMENT				
SLOVER AVENUE AT LOCUST AVENUE PLAN, PROFILE AND DETAILS				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
JL11543	H14970	AS SHOWN	4	7

REVISIONS	
MARK	DATE

REVISIONS	
MARK	DATE

MARK	REVISIONS	APPR.	DATE

MARK	REVISIONS	APPR.	DATE

GRAPHIC SCALE 1"=40'

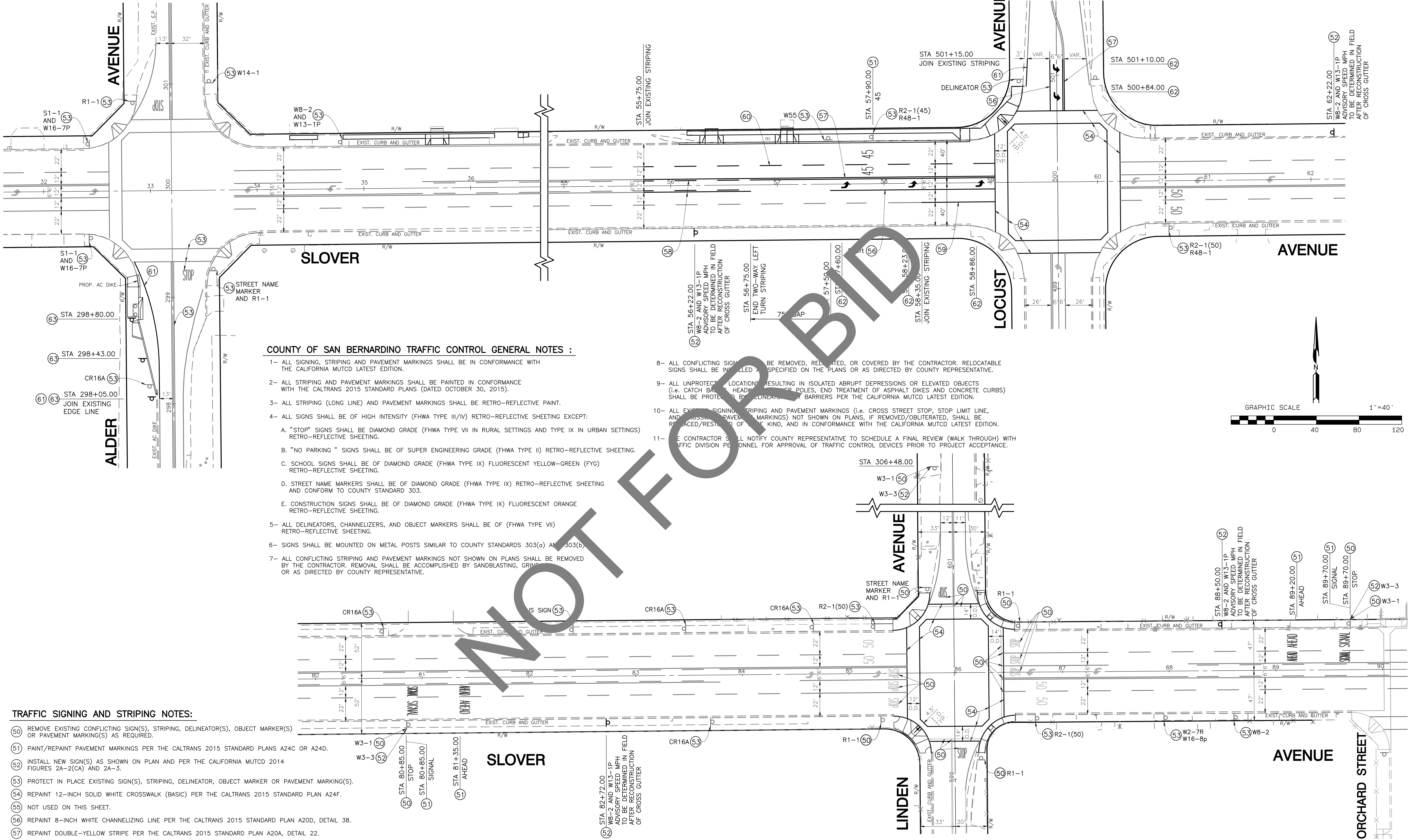
A horizontal scale bar with alternating black and white segments. Below the bar, the numbers 40, 80, and 120 are printed, indicating distances in feet. The total length of the bar represents 120 feet.



COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS				SLOVER AVENUE DRAINAGE AND TRAFFIC SIGNAL IMPROVEMENT				
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:					
<u>ESR/CBB</u>	<u>CBB</u>	<u>SB</u>	MERVAT N. MIKHAIL, P.E. _____ DATE _____ TRANSPORTATION DESIGN DIVISION CHIEF					
			APPROVED BY:					
ELOY RUVALCABA, P.E. _____ DATE _____ PUBLIC ENGINEER			DAVID R. DOUBLET, P.E. _____ DATE _____ ASSISTANT ENGINEER					
			J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.	
			JL11543	H14970	AS SHOWN	5	7	

REVISIONS	DATE	APPR.	DATE	MARK	REVISIONS	DATE	APPR.	DATE	MARK

FILE NO. 760800 050



COUNTY OF SAN BERNARDINO 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 2015 STANDARD PLANS (DATED OCTOBER 30, 2015).
- 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 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 THE 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.

TRAFFIC SIGNING AND STRIPING NOTES:

- (50) REMOVE EXISTING CONFLICTING SIGN(S), STRIPING, DELINEATOR(S), OBJECT MARKER(S) OR PAVEMENT MARKING(S) AS REQUIRED.
- (51) PAINT/REPAINT PAVEMENT MARKINGS PER THE CALTRANS 2015 STANDARD PLANS A24C OR A24D.
- (52) INSTALL NEW SIGN(S) AS SHOWN ON PLAN AND PER THE CALIFORNIA MUTCD 2014 FIGURES 2A-2(CA) AND 2A-3.
- (53) PROTECT IN PLACE EXISTING SIGN(S), STRIPING, DELINEATOR, OBJECT MARKER OR PAVEMENT MARKING(S).
- (54) REPAINT 12-INCH SOLID WHITE CROSSWALK (BASIC) PER THE CALTRANS 2015 STANDARD PLAN A24F.
- (55) NOT USED ON THIS SHEET.
- (56) REPAINT 8-INCH WHITE CHANNELIZING LINE PER THE CALTRANS 2015 STANDARD PLAN A20D, DETAIL 38.
- (57) REPAINT DOUBLE-YELLOW STRIPE PER THE CALTRANS 2015 STANDARD PLAN A20A, DETAIL 22.
- (58) REPAINT TWO-WAY YELLOW LEFT TURN LANE STRIPE PER THE CALTRANS 2015 STANDARD PLAN A20B, DETAIL 32.
- (59) REPAINT 4-INCH SOLID WHITE LANE LINE PER THE CALTRANS 2015 STANDARD PLAN A20A, DETAIL 12.
- (60) REPAINT 4-INCH DASHED WHITE LANE LINE PER THE CALTRANS 2015 STANDARD PLAN A20A, DETAIL 12.
- (61) REPAINT 4-INCH WHITE EDGE LINE PER THE CALTRANS 2015 STANDARD PLAN A20B, DETAIL 27B.
- (62) REPAINT TYPE IV ARROW PAVEMENT MARKING PER THE CALTRANS 2015 STANDARD PLAN A24A.
- (63) INSTALL TYPE L-1(CA) (OM2-2V) OBJECT MARKER AS SHOWN ON PLAN AND PER THE CALIFORNIA MUTCD 2014, FIGURE 2C-13(CA).

MARK		CHANGES	NO CHANGES	RESIDENT ENGINEER	DATE
FIELD CHANGES					

REGISTERED PROFESSIONAL ENGINEER
GRANT C. MANN
C 64340
CIVIL
STATE OF CALIFORNIA

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY J.H.C.	DRAWN BY H.F.	CHECKED BY J.J.	RECOMMENDED BY: GRANT MANN, P.E. TRAFFIC DIVISION CHIEF DATE
SUBMITTED BY: JEREMY JOHNSON, P.E. SUPERVISING ENGINEER DATE		APPROVED BY: DAVID R. DOUBLET, M.S., P.E. ASSISTANT DIRECTOR DATE	

SLOVER AVENUE AT ALDER AVENUE, LOCUST AVENUE AND LINDEN AVENUE TRAFFIC SIGNING AND STRIPING PLAN BLOOMINGTON AREA				
J.L. REF. JL11580	W.O. NO. H14967	SCALE 1" = 40'	SHEET. NO. 6	TOTAL SHT'S. 7

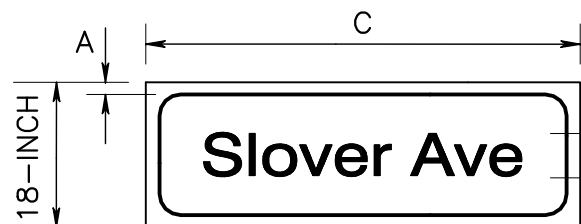
POLE AND EQUIPMENT SCHEDULE																
POLE NO.	STANDARD					POLE LOCATION		VEHICLE SIGNAL MOUNTING		◆ PEDESTRIAN SIGNAL		PEDESTRIAN PUSH BUTTON			L.E.D. LUMINAIRE	RETRO-REFLECTIVE STREET NAME SIGN
	TYPE	HEIGHT	SIGNAL MAST ARM	"F" SPACING	LUMINAIRE MAST ARM	"A"	"B"	MAST ARM	POLE	PHASE	MOUNTING	QUADRANT	ARROW	PHASE		
(A)	26-4-100	30'	45'	17'	15' **	12'	4'	2-MAS	SV-1-T	ø6	SP-1-T	EAST	←	ø4P	200 WATT	DETAIL B
(B)	1-A	10'	---	---	---	12'	4'	---	TV-2-T	ø4	SP-1-T	SOUTH	→	ø6P	---	---
(C)	19-4-100	30'	25'	---	15' **	11'	4'	MAS	SV-1-T	ø8	SP-1-T	SOUTH	←	ø6P	200 WATT	DETAIL A
(D)	1-A	10'	---	---	---	9'	4'	---	TV-2-T	ø6	SP-1-T	WEST	→	ø8P	---	---
(E)	26-4-100	30'	45'	17'	15' **	-3'	4'	2-MAS	SV-1-T	---	---	---	---	---	200 WATT	DETAIL B
(F)	1-A	7'	---	---	---	11'	4'	---	---	ø2	SP-1-T	WEST	←	ø8P	---	---
(G)	1-A	10'	---	---	---	10'	4'	---	TV-2-T	ø8	SP-1-T	NORTH	→	ø2P	---	---
(H)	19-4-100	30'	25'	---	15' **	9'	4'	MAS	SV-1-T	ø4	SP-1-T	NORTH	←	ø2P	200 WATT	DETAIL A
(I)	1-A	10'	---	---	---	10'	4'	---	TV-2-T	ø2	SP-1-T	EAST	→	ø4P	---	---

LEGEND:

- ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE WITH COUNTDOWN TIMER.
- USE STRAIGHT LUMINAIRE MAST ARM (NO TAPER).

COUNTY OF SAN BERNARDINO 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.
- ALL VEHICLE SIGNAL INDICATIONS SHALL BE 12inch AND SHALL BE INSTALLED WITH "LED" SIGNAL MODULES.
- ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE INSTALLED WITH "LED" PEDESTRIAN MODULES. PEDESTRIAN MODULES SHALL BE EQUIPPED WITH COUNTDOWN TIMERS PER THE CALTRANS 2018 STANDARD PLAN RSP ES-4B DETAIL B.
- SIGNAL POLE LOCATIONS ARE APPROXIMATE.
- ALL BACK PLATES SHALL BE LOUVERED.
- ALL BACK PLATES AND VISORS SHALL BE METAL, NO PLASTIC PARTS WILL BE ALLOWED.
- 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.
- SLEEVE NUTS SHALL BE USED FOR ALL TYPE (1-A) POLES PER THE CALTRANS 2018 STANDARD PLAN RSP ES-7B.
- 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 UNUSED TENONS SHALL BE CAPPED.
- 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 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.
- 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.



LEGEND:

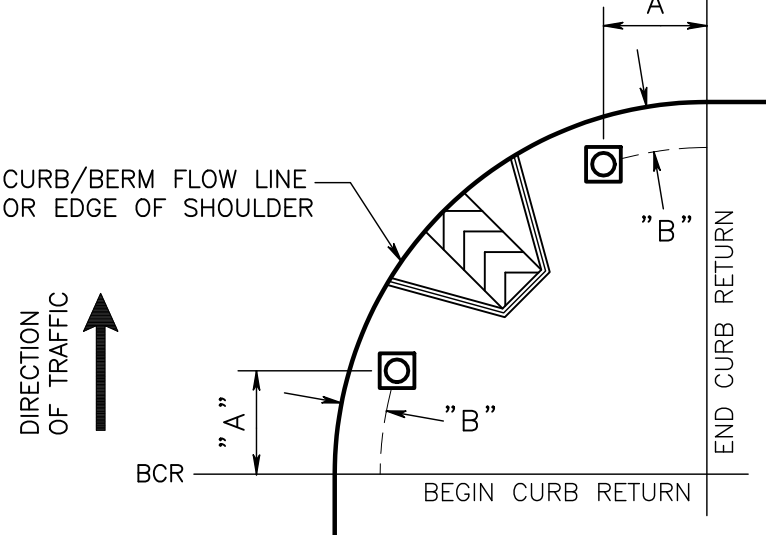
- 1-INCH WHITE RETRO-REFLECTIVE BORDER
- 12-INCH UPPER CASE LETTERS AND 9-INCH LOWER CASE LETTERS
- SIGN LENGTH SHALL BE EITHER 6ft OR 8ft DEPENDING ON LEGEND

FOR DETAILS A AND B

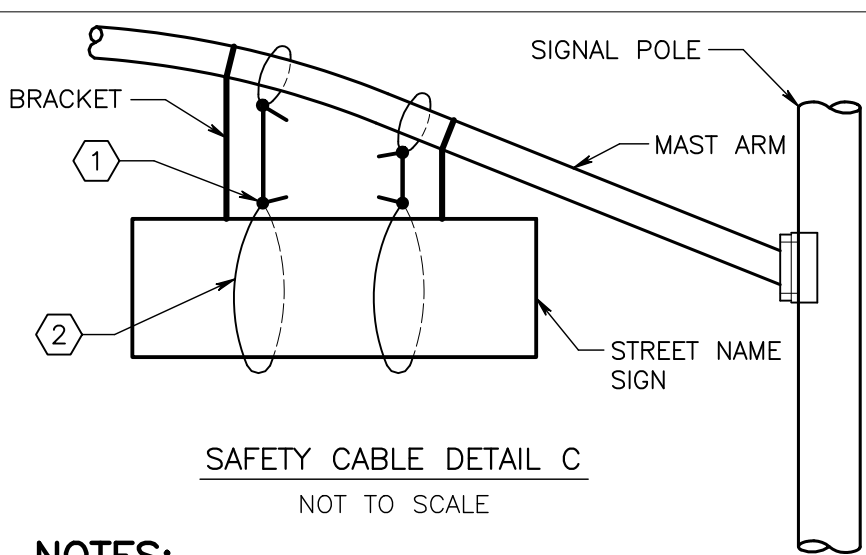
- BORDER AND LEGEND COLOR = RETRO-REFLECTIVE WHITE
- BACKGROUND COLOR = RETRO-REFLECTIVE GREEN

NOTE:

FOR "A" AND "B" DIMENSIONS, SEE POLE SCHEDULE, OR AS DIRECTED BY THE ENGINEER

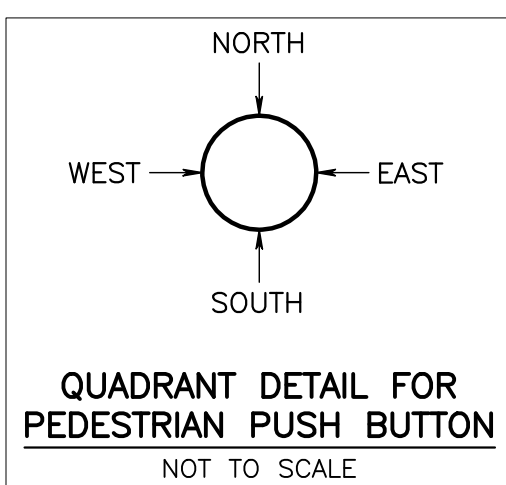


UNLESS OTHERWISE NOTED ON PLAN



NOTES:

- 1/8-INCH CRIMP FITTING. KEEP FITTING AS CLOSE TO MAST ARM / BRACKET AS POSSIBLE. PROVIDE 2-INCH OF SLACK BETWEEN CRIMP FITTINGS.
- 1/8-INCH GALVANIZED STEEL CABLE.



CONDUCTOR AND CONDUIT TABLE

SIGNAL CABLE	POLE	PHASE		CONDUIT RUN													
				△1	△2	△3	△4	△5	△6	△7	△8	△9	△10	△11	△12		
		VEHICLE AND PEDESTRIAN	PED PUSH BUTTON	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	CABLE TYPE	
				12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC	12CSC
				9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC	9CSC
Ⓐ	1,6,6P	4P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓑ	8,4P	6P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓒ	8,8P	6P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓓ	5,6,6P	8P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓔ	2,5	—	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓕ	2P	8P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓖ	4,8P	2P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓗ	4,4P	2P	1	1	1	1	1	1	1	1	1	1	1	1	1		
Ⓙ	1,2,2P	4P	1	1	1	1	1	1	1	1	1	1	1	1	1		
TOTAL			3	—	3	2	—	2	1	—	1	1	1	1	1		