

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.

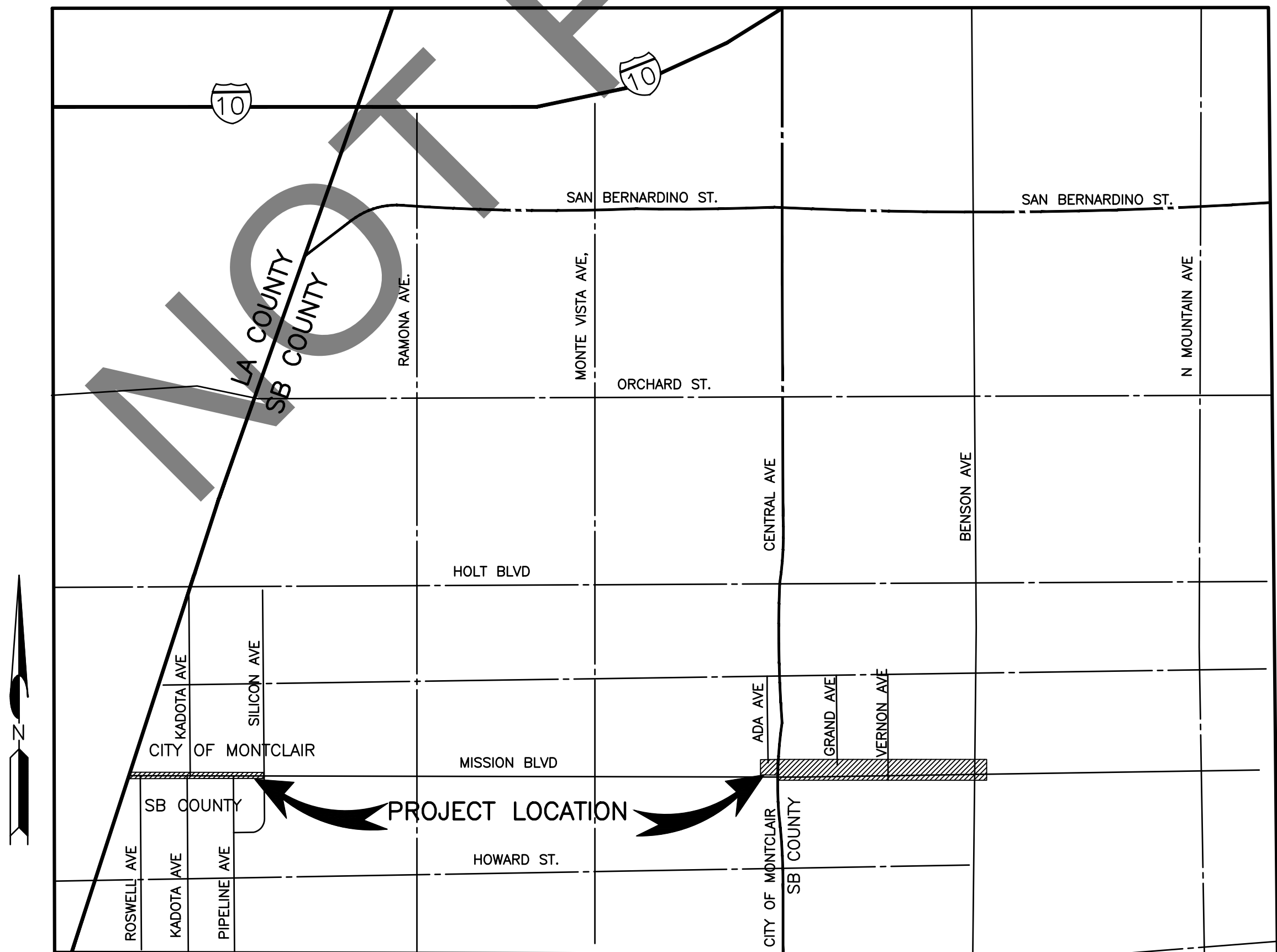
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS TRANSPORTATION



PLANS FOR CONSTRUCTION ON MISSION BOULEVARD

LOS ANGELES COUNTY LINE TO 0.06 MILES EAST OF PIPELINE AVENUE
0.07 MILES WEST CENTRAL AVENUE TO BENSON AVENUE
MONTCLAIR AREA

WORK ORDER NO. H15034 ROAD NO. 554875-010/030
LENGTH = 0.96 MILES



LOCATION MAP
NOT TO SCALE

CITY OF MONTCLAIR

APPROVED BY: Monica Heredia
Monica Heredia, P.E., Public Works Director/City Engineer

March 7, 2023
DATE

SAN BERNARDINO COUNTY

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

3/22/23
DATE

APPROVED BY: Noel Castillo
NOEL CASTILLO, P.E., ASSISTANT DIRECTOR OF PUBLIC WORKS R.C.E. 78044

3/20/23
DATE

MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES		SHT. NO.	TOT. SHT'S.
		1	15

INDEX OF SHEETS

- 1 TITLE SHEET
2 PROJECT NOTES, INDEX MAP, LEGENDS AND INDEX OF SHEETS
3 TYPICAL SECTIONS AND MISCELLANEOUS DETAILS
4-6 PLAN SHEETS
7-10 RAMP DETAILS
11-15TRAFFIC SIGNING AND STRIPING PLANS

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

115
303a
303b

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

RSP T9 RSP A88A
RSP T10 RSP A88B
T11
T13

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

A20A A24A RSP ES-1A RSP ES-7A
A20B A24C RSP ES-1B RSP ES-8A
A20C A24D RSP ES-1C RSP ES-8B
A20D A24E RSP ES-5C
A24F

TO BE SUPPLEMENTED BY THE FOLLOWING MUTCD (REVISION 6) STANDARD PLANS DATED 2014:

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

THIS PROJECT REQUIRES A CONTRACTOR'S LICENSE CLASS "A" OR CLASS "C12"

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 8-1.10 "UTILITY AND 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.

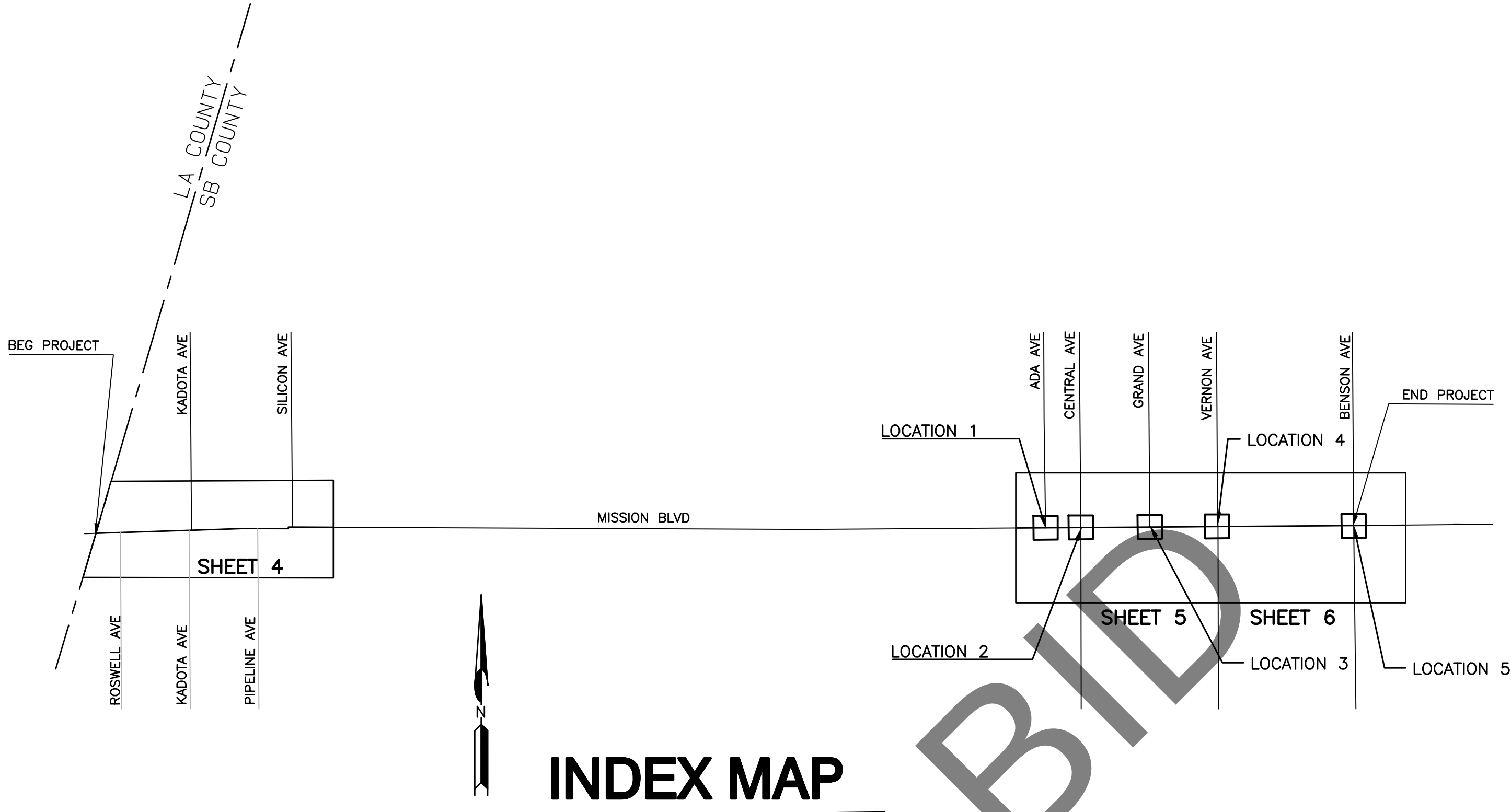
1. ALL STATIONING NOTES ON PLAN REFER TO THE CL MISSION BLVD. AND SIDE STREETS.
2. DIMENSIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE CALTRANS STANDARD SPECIFICATIONS.
3. ALL PAVEMENT WIDTH DIMENSIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT OR TO THE TOP OF CURB, UNLESS OTHERWISE NOTED.
4. 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.

BASIS OF BEARINGS:

CL OF IMPROVEMENT MISSION BLVD BETWEEN
BENSON AVE & OAKS AVE PER CS A-3097
BEING N89°28'00"E.

BENCHMARK:

FD 3" BRASS DISK "MWD PLS6891 1995" TOP OF NE CURB ON BRIDGE OVER STORM DRAIN
ON KADOTA AVE PER CSFB 4013/1038. NGVD-29 ELEVATION = 904.491'.



INDEX MAP

NTS

RAMPS SCHEDULE (MISSION BOULEVARD)

LOCATION	RAMP	CROSS ROADS	SHEET
1	RAMP 1	MISSION BLVD @ ADA AVE	7
2	RAMP 2	MISSION BLVD @ CENTRAL AVE	7
3	RAMP 3	MISSION BLVD @ GRAND AVE	8
3	RAMP 4	MISSION BLVD @ GRAND AVE	8
4	RAMP 5	MISSION BLVD @ VERNON AVE	8
4	RAMP 6	MISSION BLVD @ VERNON AVE	9
4	RAMP 7	MISSION BLVD @ VERNON AVE	9
4	RAMP 8	MISSION BLVD @ VERNON AVE	9
5	RAMP 9	MISSION BLVD @ BENSON AVE	9
5	RAMP 10	MISSION BLVD @ BENSON AVE	10
1	RAMP 11	MISSION BLVD @ CENTRAL AVE	10

ABBREVIATIONS LEGEND:

AC = ASPHALT CONCRETE
AP = ANGLE POINT
AVE = AVENUE
BEG = BEGINNING
BCR = BEGIN CURB RETURN
BPR = BEGIN PAVEMENT RETURN
BC = BEGIN OF CURVE
CL = CENTER LINE
CLF = CHAIN LINK FENCE
DR = DRIVE
DWG = DRAWING
ECR = END OF CURB RETURN
EL = ELEVATION
EP = EDGE OF PAVEMENT
EPR = END OF PAVEMENT RETURN
EC = END OF CURVE
EXIST= EXISTING
FCD = FLOOD CONTROL DISTRICT
FG = FINISHED GRADE
FL = FLOW LINE
LT = LEFT
MAX = MAXIMUM
MIN = MINIMUM
NTS = NOT TO SCALE
PEC = PERMIT TO ENTER AND CONSTRUCT
PI = POINT OF INTERSECTION
PL = PROPERTY LINE
RT = RIGHT
R/W = RIGHT OF WAY
SBC = SAN BERNARDINO COUNTY
SHT = SHEET
STA = STATION
STD = STANDARD
STR = STREET
SUR = SURVEY
THK = THICKNESS
VC = VERTICAL CURVE

CONSTRUCTION MATERIALS

PLAN

COLD PLANE/MILL AND OVERLAY
ASPHALT CONCRETE PAVEMENT
GROUTED ROCK

SECTION

ASPHALT CONCRETE OVERLAY
ASPHALT CONCRETE PAVEMENT
NATURAL GROUND

PROPOSED SLOPE
EXISTING SLOPE

GAS LINE
SEWER MAIN LINE
WATER LINE
ELECTRIC LINE
TELEPHONE LINE
DATA/CABLE LINE

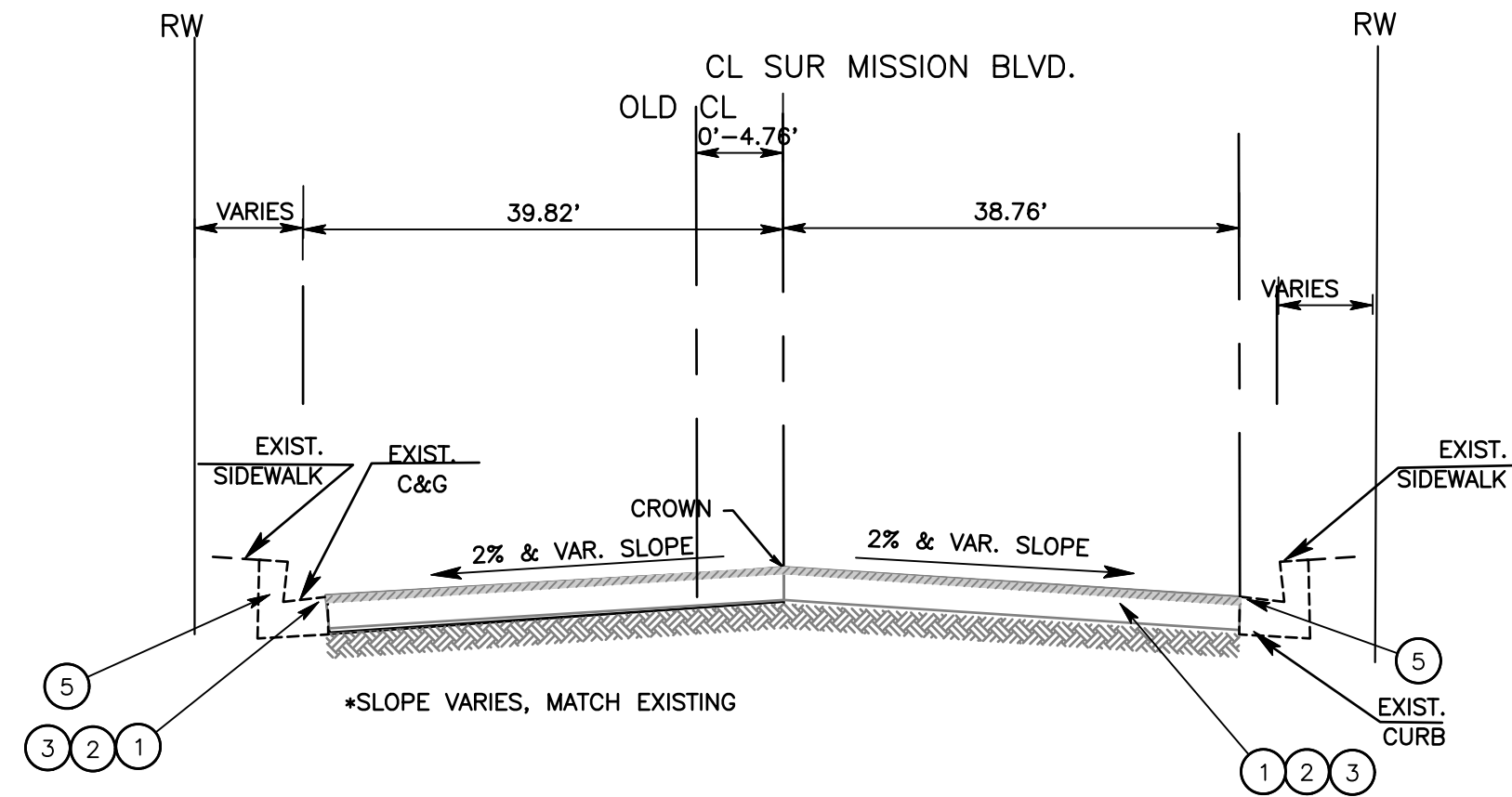
CONSTRUCTION NOTES:

- 1 MILL THE ROAD SURFACE FOR A DEPTH OF 0.25'
2 APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05" LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PG 64-10 HMA TO FLATTEN AND LEVEL THE MILLED SURFACE.
3 APPLY GLASPAVE 50 PAVING MAT OR EQUAL. PLACE 0.20" OF TYPE "A", 3/4" AGGREGATE GRADATION, PG 64-28 PM HMA.
4 ADJUST PULL BOX AND RELOCATE OUTSIDE OF RAMP WINGS
5 PROTECT-IN-PLACE.
6 SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING
7 ADJUST MANHOLE TO GRADE PER CITY OF MONTCLAIR
8 CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE A
9 CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE B
10 CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE C
11 PLACE DETECTABLE WARNING SURFACE PER CALTRANS STD RSP A88A
12 PLACE 0.67" ASPHALT CONCRETE TYPE A, 3/4" AGGREGATE GRADATION HMA OVER COMPACTED NATIVE PER DETAIL A (SHEET 3)
13 CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 116
14 REMOVE EXISTING CONCRETE CURB AND GUTTER.
15 EXISTING SIGN TO BE RESET PER SIGNING AND STRIPING PLANS
16 RESET MAILBOX
17 INSTALL 8" RETAINING CURB PER CALTRANS STD A88A
18 SAWCUT & REMOVE CONCRETE SURFACING (RAMP, SIDEWALK AND SPANDREL)
19 CONSTRUCT GROUTED ROCK TREATMENT PER SAN BERNARDINO COUNTY SPEC DWG NO. 112
20 CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE G
21 TRANSITION FROM 8" TO 6" CURB AND GUTTER PER SAN BERNARDINO COUNTY SPEC DWG NO.110 RAMP 1&4
22 PLACE COLORED CONCRETE TO MATCH EXISTING (CENTRAL & BENSON)

* NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL BE PROTECTED IN PLACE

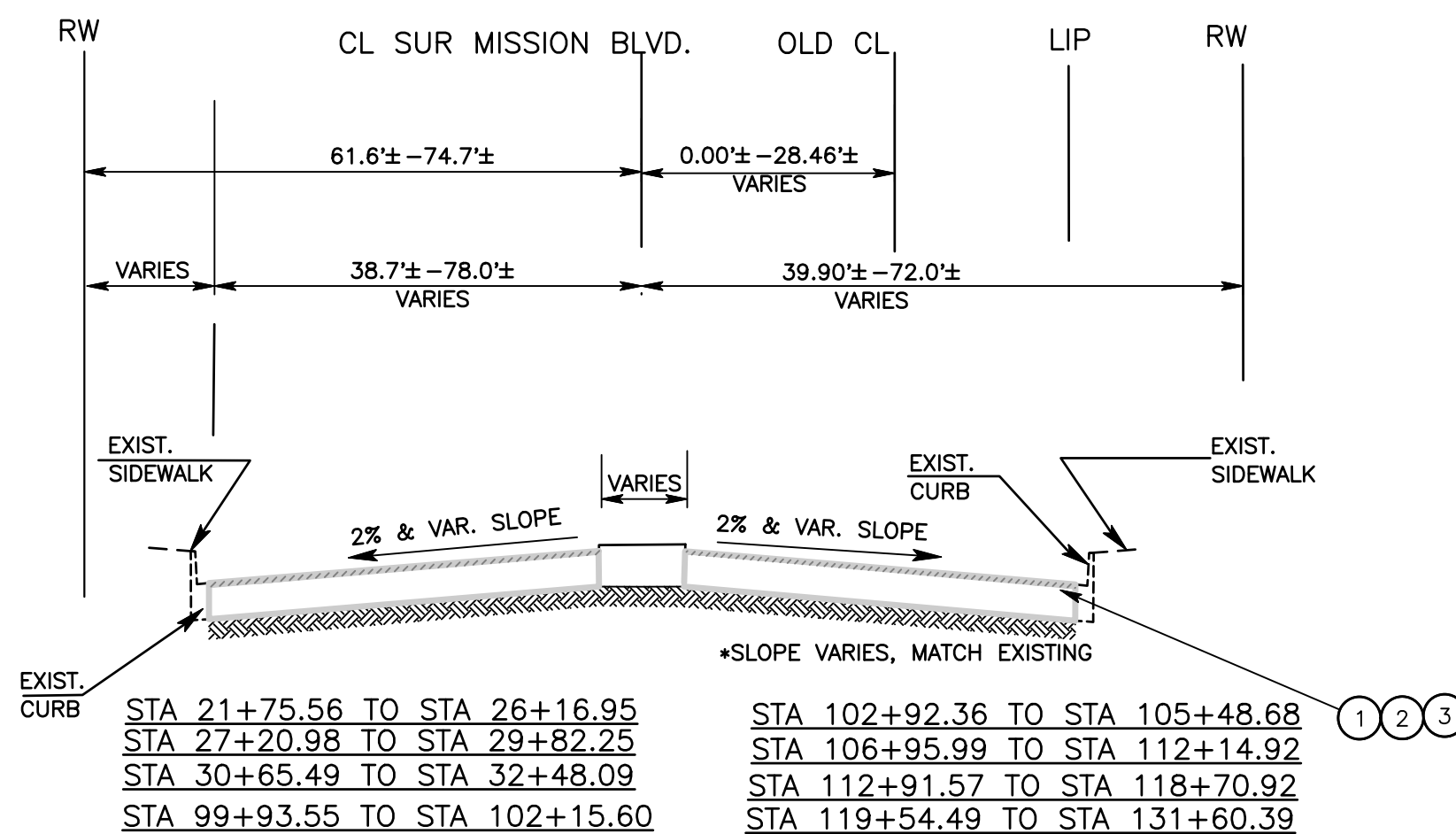
FILE NO. 554875-010/030

FILE NO. 554875-010/030



STA 11+00.00 TO STA 11+16.85

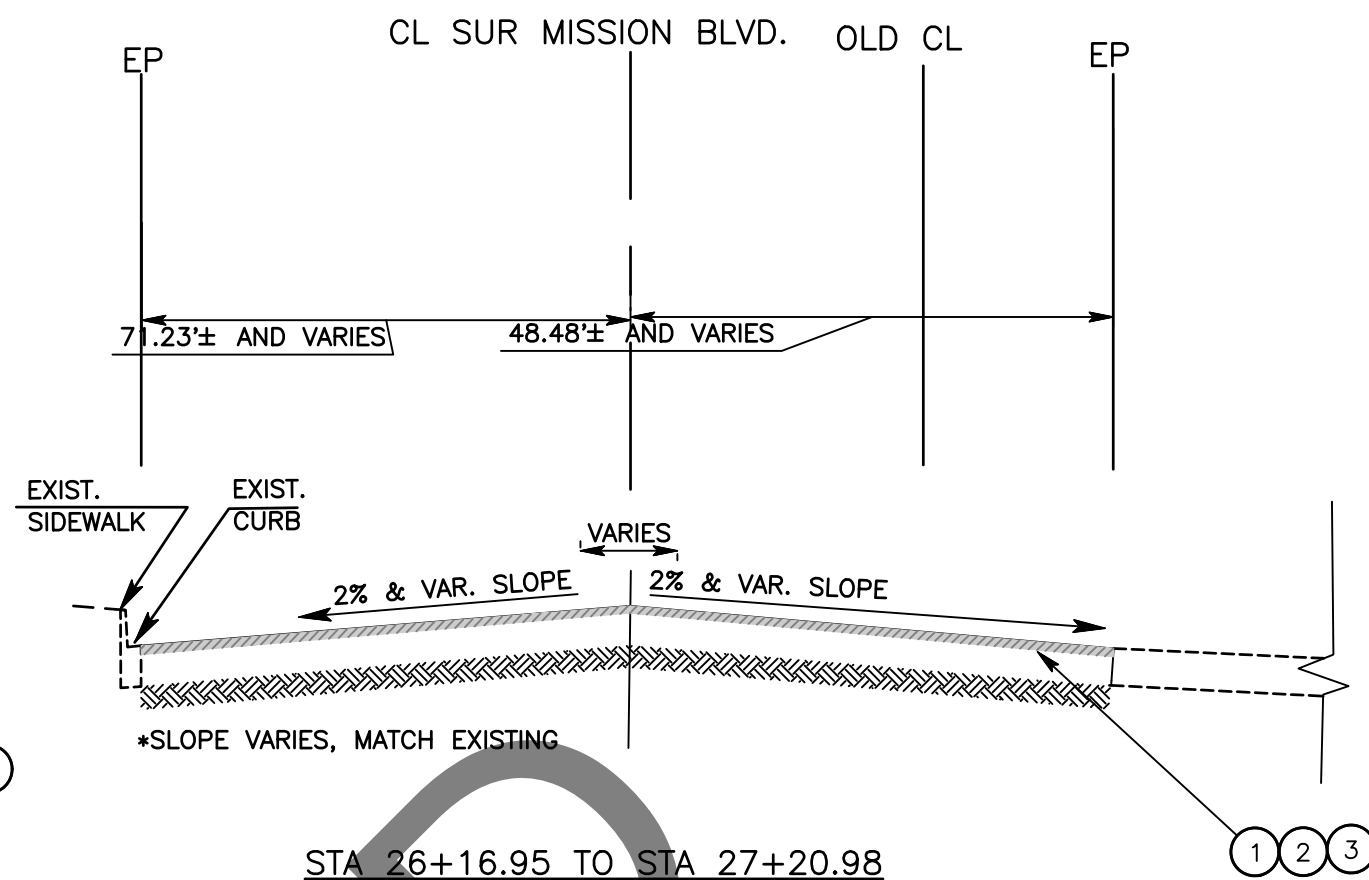
TYPICAL SECTION MISSION BLVD
NTS



STA 21+75.56 TO STA 26+16.95
STA 27+20.98 TO STA 29+82.25
STA 30+65.49 TO STA 32+48.09
STA 99+93.55 TO STA 102+15.60

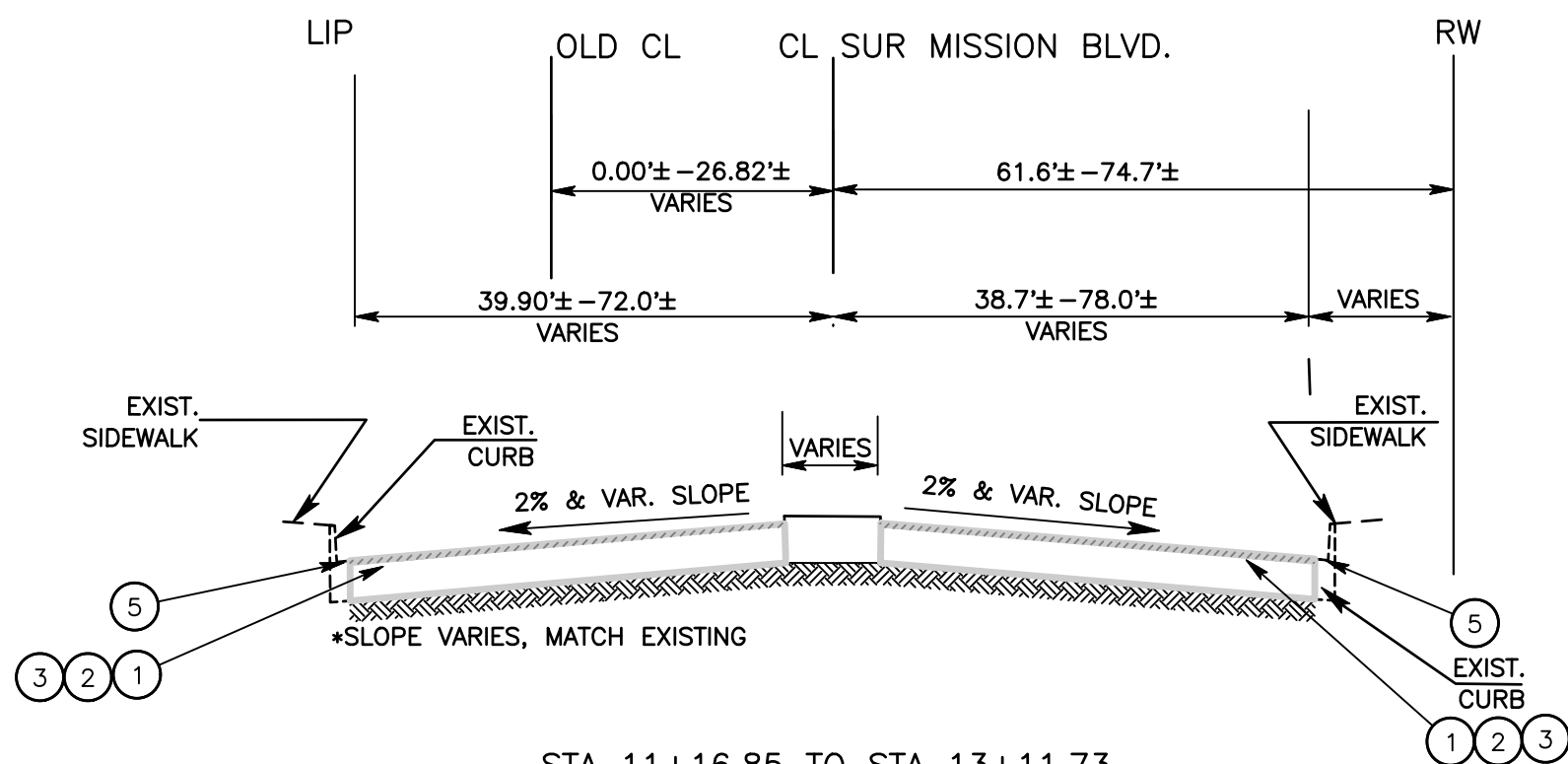
STA 102+92.36 TO STA 105+48.68
STA 106+95.99 TO STA 112+14.92
STA 112+91.57 TO STA 118+70.92
STA 119+54.49 TO STA 131+60.39

TYPICAL SECTION MISSION BLVD
NTS



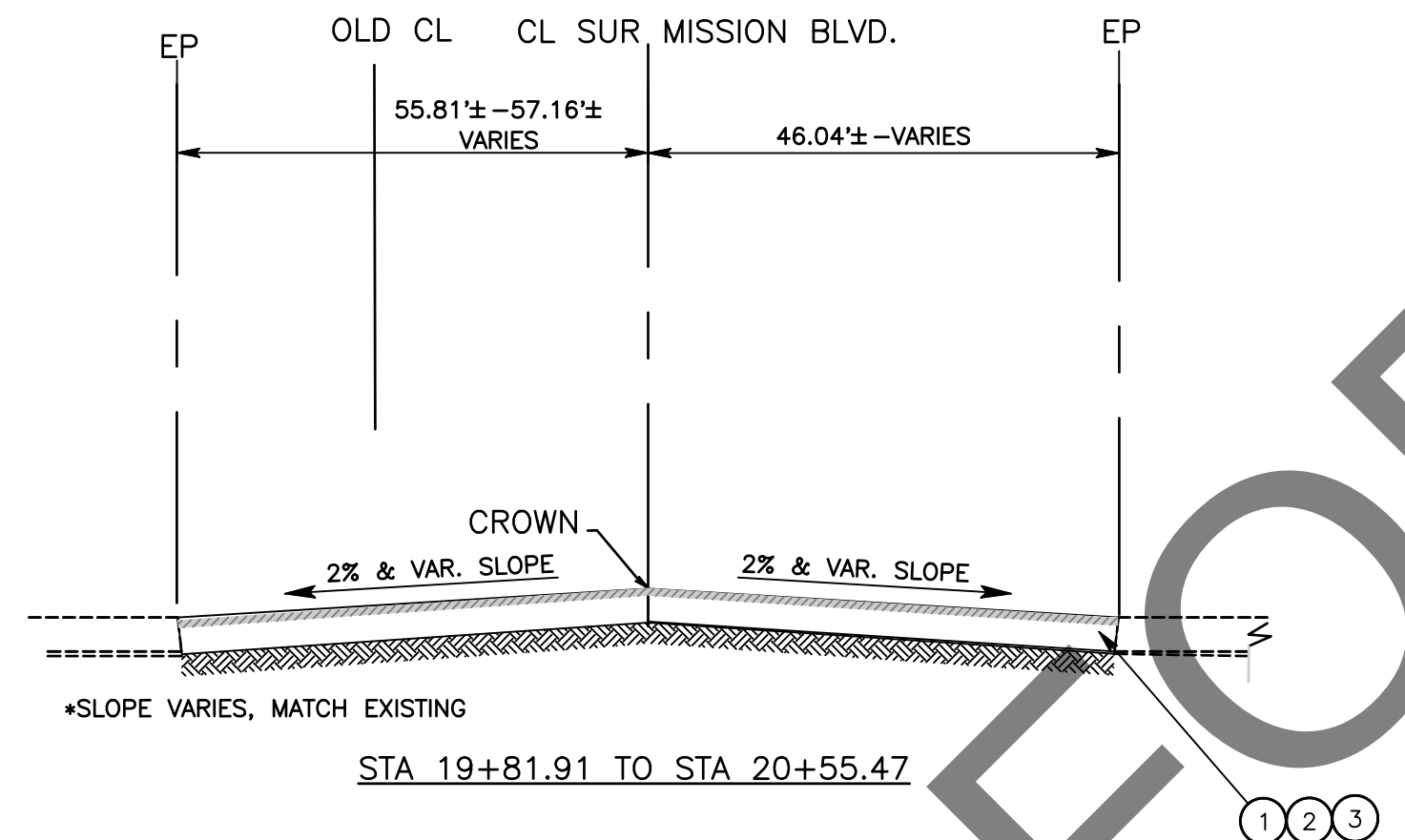
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TYPICAL SECTION MISSION BLVD
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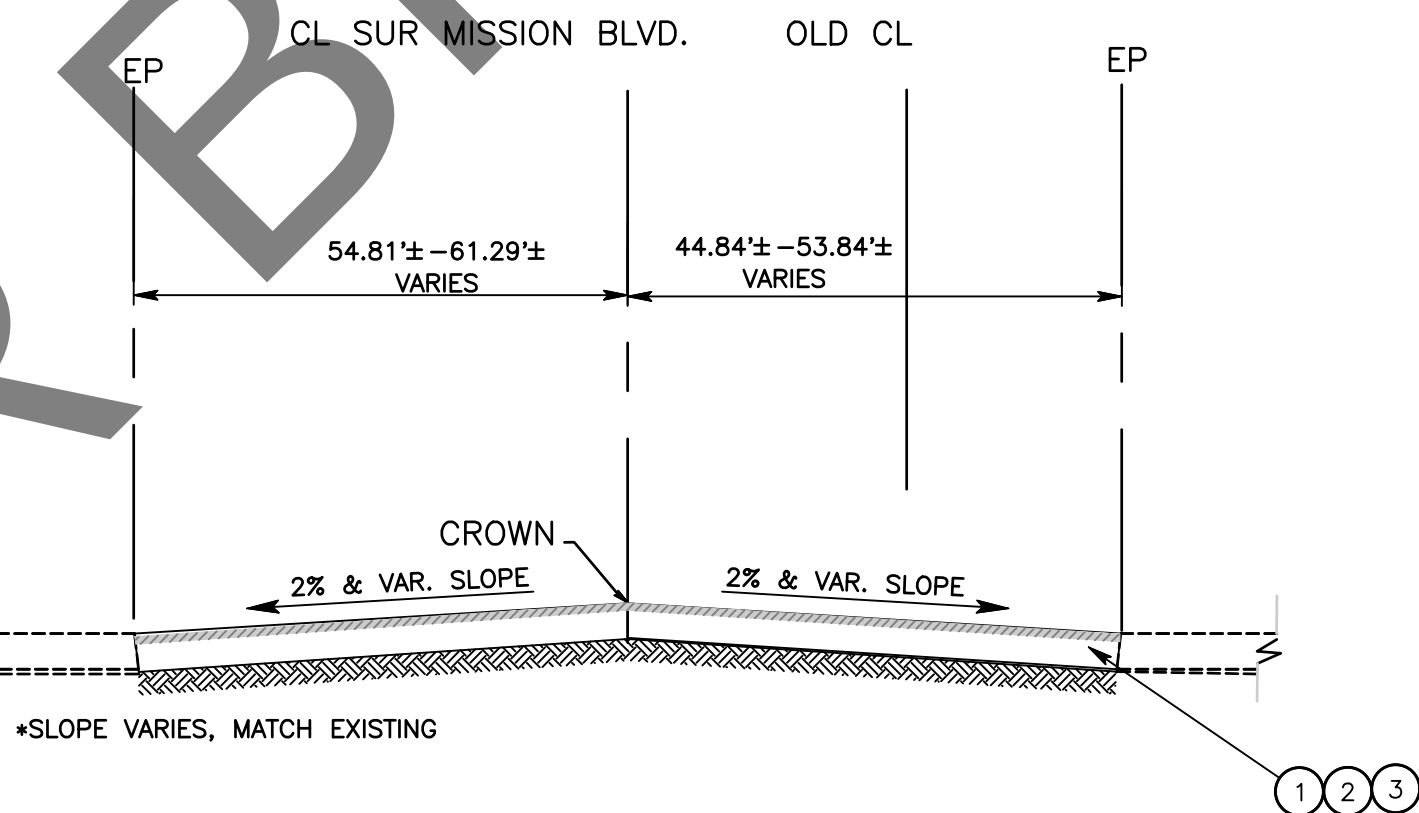
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STA 13+86.13 TO STA 19+81.91
STA 20+55.47 TO STA 21+75.56

TYPICAL SECTION MISSION BLVD
NTS



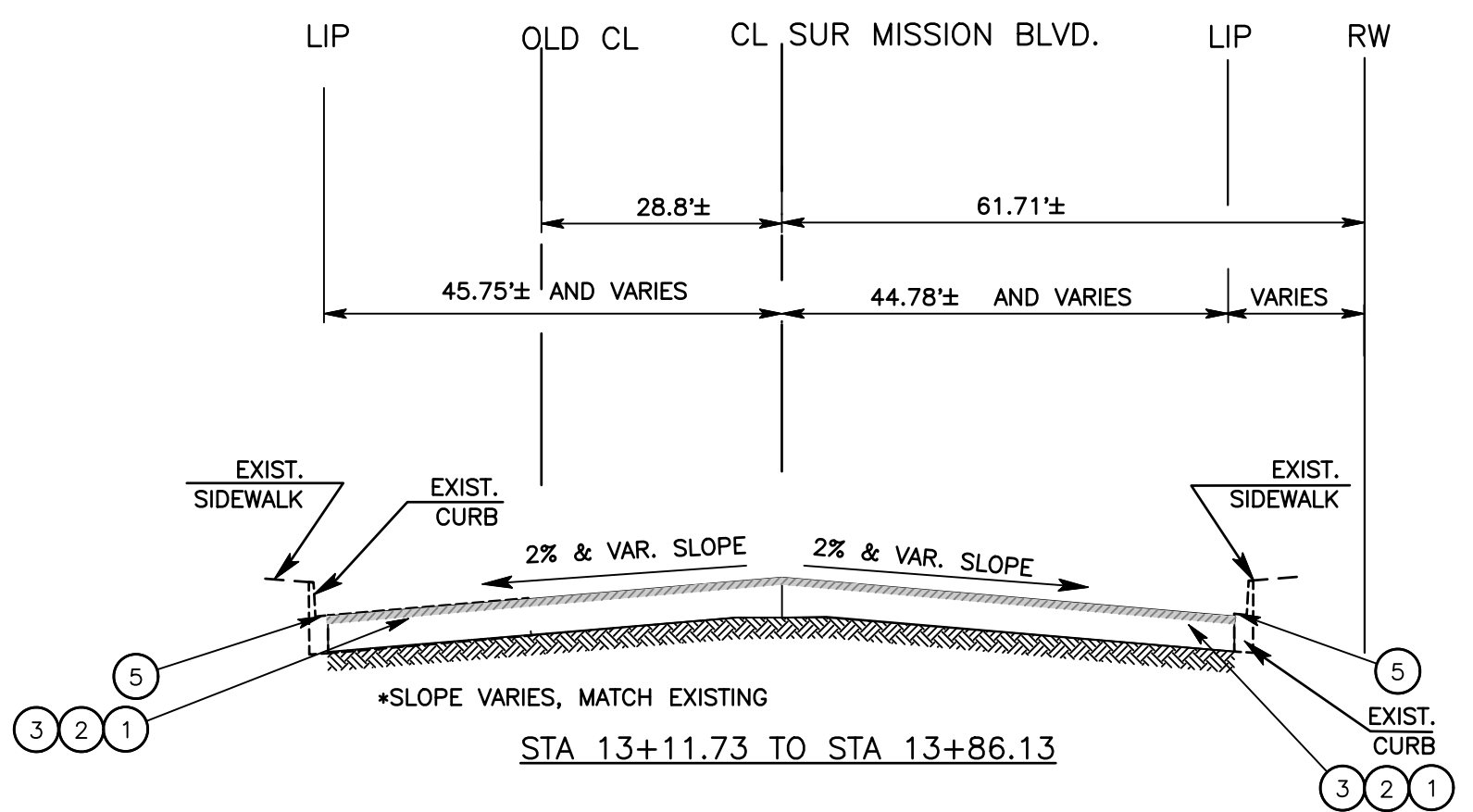
STA 19+81.91 TO STA 20+55.47

TYPICAL SECTION MISSION BLVD
NTS



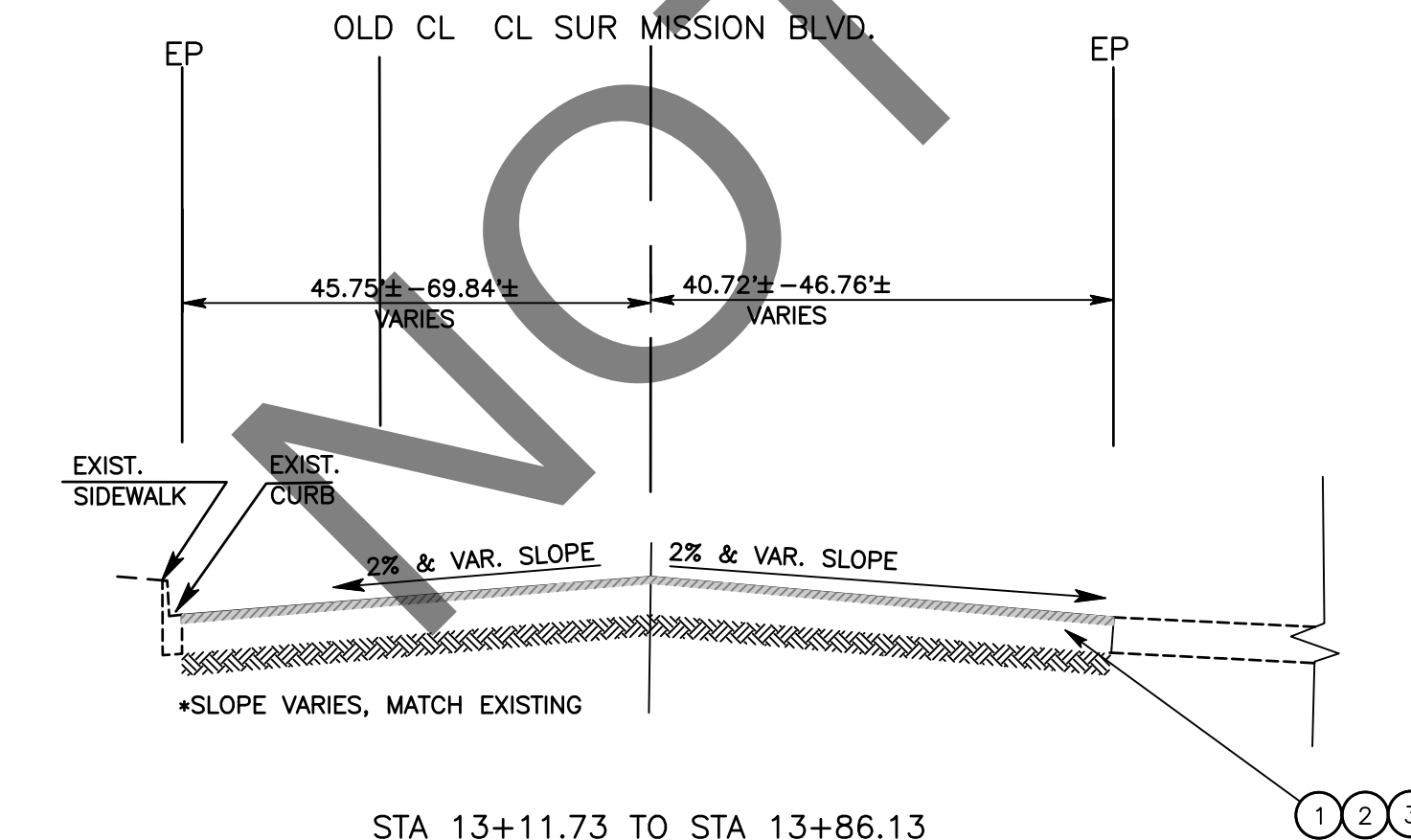
STA 105+48.68 TO STA 106+95.99
STA 118+70.92 TO STA 119+54.49

TYPICAL SECTION MISSION BLVD
NTS



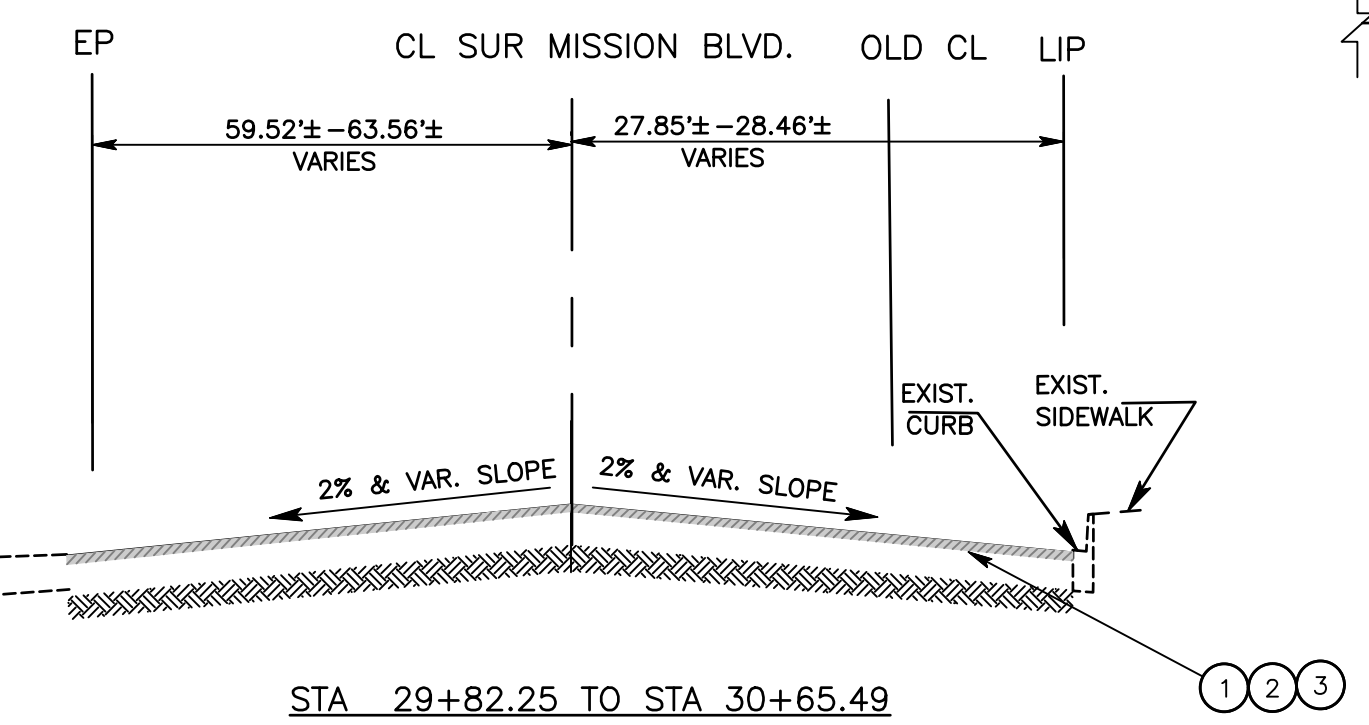
STA 13+11.73 TO STA 13+86.13

TYPICAL SECTION MISSION BLVD
NTS



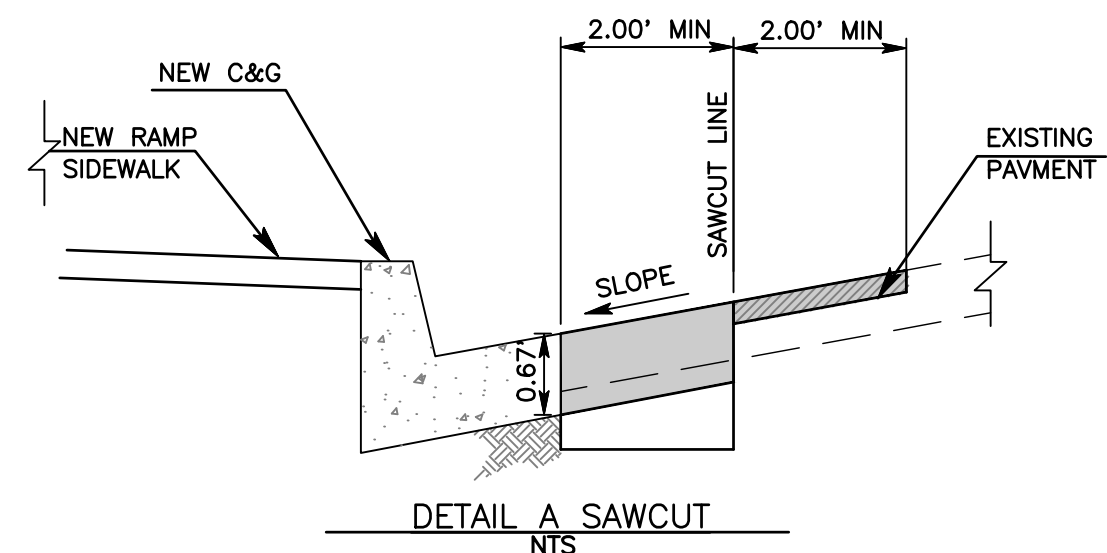
STA 13+11.73 TO STA 13+86.13

TYPICAL SECTION MISSION BLVD
NTS



STA 29+82.25 TO STA 30+65.49
STA 102+15.60 TO STA 102+92.36
STA 112+14.92 TO STA 112+91.57

TYPICAL SECTION MISSION BLVD
NTS



- CONSTRUCTION NOTES:
- 1 MILL THE ROAD SURFACE FOR A DEPTH OF 0.25'
 - 2 APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05" LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PG 64-10 HMA TO FLATTEN AND LEVEL THE MILLED SURFACE.
 - 3 APPLY GLASPAVE 50 PAVING MAT OR EQUAL. PLACE 0.20" OF TYPE "A", 3/4" AGGREGATE GRADATION, PG 64-28 PM HMA.
 - 5 PROTECT-IN-PLACE.

Note

ON OUR RECORDS, THERE IS A PCC LAYER AT A DEPTH OF 0.28" BELOW THE EXISTING AG AT DIFFERENT LOCATIONS. DURING THE MILLING PROCEDURE, EXPECT TO EXPOSE TO THE PCC LAYER AT SOME OR ALL OF THESE LOCATIONS. DO NOT MILL INTO THE PCC.

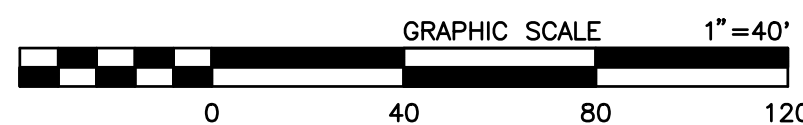
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: SB	DRAWN BY: MS	CHECKED BY: TB	RECOMMENDED BY: Chris Nguyen, P.E. ENGINEERING MANAGER 03/20/2023 DATE
THOMAS BUSTAMONTE SUPERVISING ENGINEER		2/27/23 DATE	APPROVED BY: Mervat N. Mikhail, P.E. DEPUTY DIRECTOR 03/20/2023 DATE

MISSION BOULEVARD MONTCLAIR AREA PLAN TYPICAL SECTIONS & MISC. DETAILS				
J.L. REF. J.L.11758	W.O. NO. H15034	PLAN SCALE NTS	SHT. NO. 3	TOT. SHT'S. 15

STA 23+00.00

[illegible]

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: <u>SB</u>	DRAWN BY: <u>MS</u>	CHECKED BY: <u>TB</u>	RECOMMENDED BY:  CHRIS NGUYEN, P.E. ENGINEERING MANAGER 03/20/2023 DATE
Thomas Bustamonte THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER		2/27/23 DATE	APPROVED BY:  MERVAT N. MIKHAIL, P.E. DEPUTY DIRECTOR 03/20/2023 DATE

MISSION BOULEVARD
MONTCLAIR AREA
PLAN

J.L. REF. J.L.11758	W.O. NO. H15034	PLAN SCALE 1"=40'	SHT. NO. 4	TOT. SHT'S. 15
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CL SUR/IMP ALIGNMENT CURVE DATA				
C#	RADIUS	LENGTH	DELTA	TANGENT
C2	180.00'	6.34'	2'01"00"	3.17
C1	200.00'	48.99'	14'02"00"	24.62

* NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL
BE PROTECTED IN PLACE

○ CONSTRUCTION NOTES:

- | | |
|---|--|
| 1 | MILL THE ROAD SURFACE FOR A DEPTH OF 0.25' |
| 2 | APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05" LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PG 64-10 HMA TO FLATTEN AND LEVEL THE MILLED SURFACE. |
| 3 | APPLY GLASPAVE 50 PAVING MAT OR EQUAL. PLACE 0.20" OF TYPE "A", 3/4" AGGREGATE GRADATION, PG 64-28 PM HMA. |
| 5 | PROTECT-IN-PLACE. |

MARK	CHANGES	DATE	REVISIONS

FILE NO. 554875-010/030

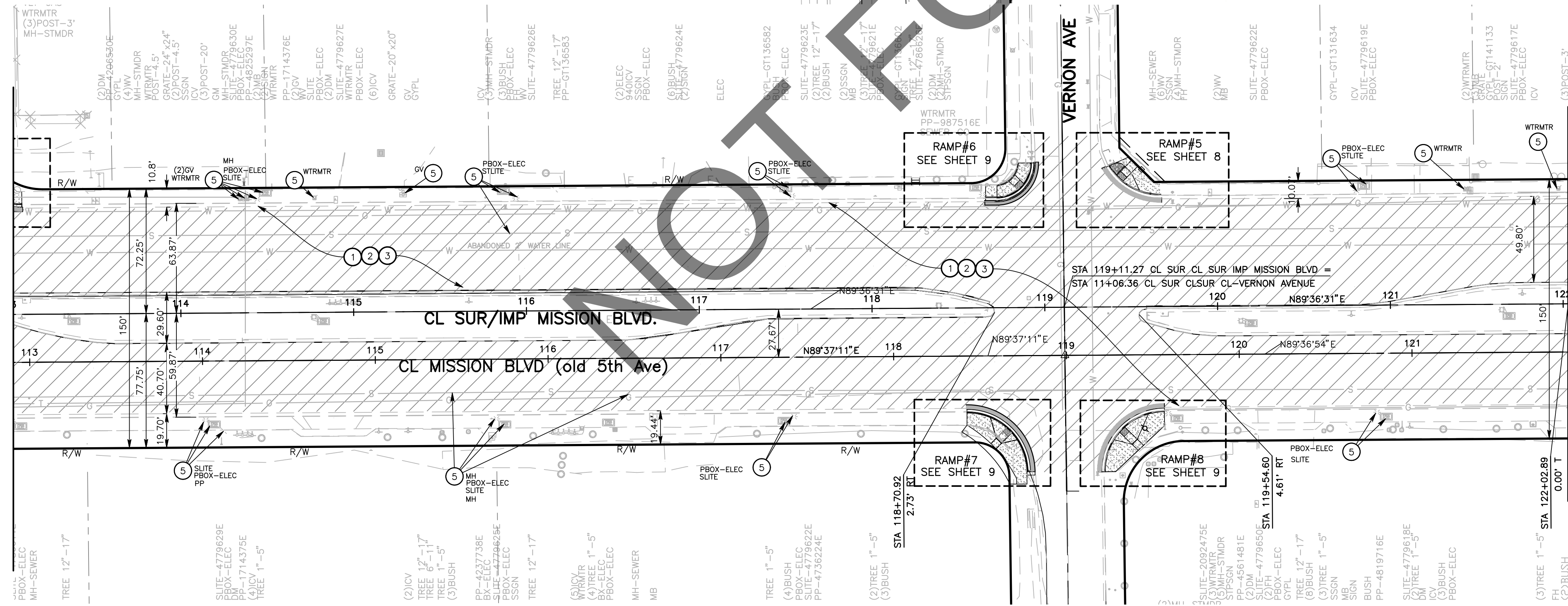
BEGINNING OF IMPROVEMENT OF
THE EAST SIDE

STA 113+00.00
MATCH LINE SEE TOP RIGHT

MATCH LINE SEE SHEET 6
STA 122+00.00

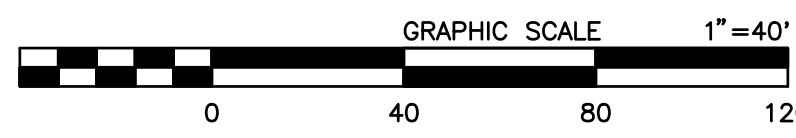
MATCH LINE SEE BELOW LEFT
STA 113+00.00

FILE NO. 554875-010/030



NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL
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- CONSTRUCTION NOTES:
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 - APPLY GLASPAVE 50 PAVING MAT OR EQUAL. PLACE 0.20' OF TYPE "A", 3/4" AGGREGATE GRADATION, PG 64-28 PM HMA.
 - PROTECT-IN-PLACE.



MARK		CHANGES	NO CHANGES	RESIDENT ENGINEER	DATE	FIELD CHANGES	
						SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS	
DESIGNED BY:	SB	DRAWN BY:	MS	CHECKED BY:	TB	RECOMMENDED BY:	03/20/2023
Thomas Bustamonte THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER						2/27/23	DATE
APPROVED BY:						03/20/2023	DATE
CHRIS NGUYEN, P.E. ENGINEERING MANAGER						J.L. REF. J.L.11758	
W.O. NO. H15034						PLAN SCALE 1"=40'	SHT. NO. 5
TOT. SHTS. 15							

MARK	APPR.	DATE

GRAPHIC SCALE 1"=40'



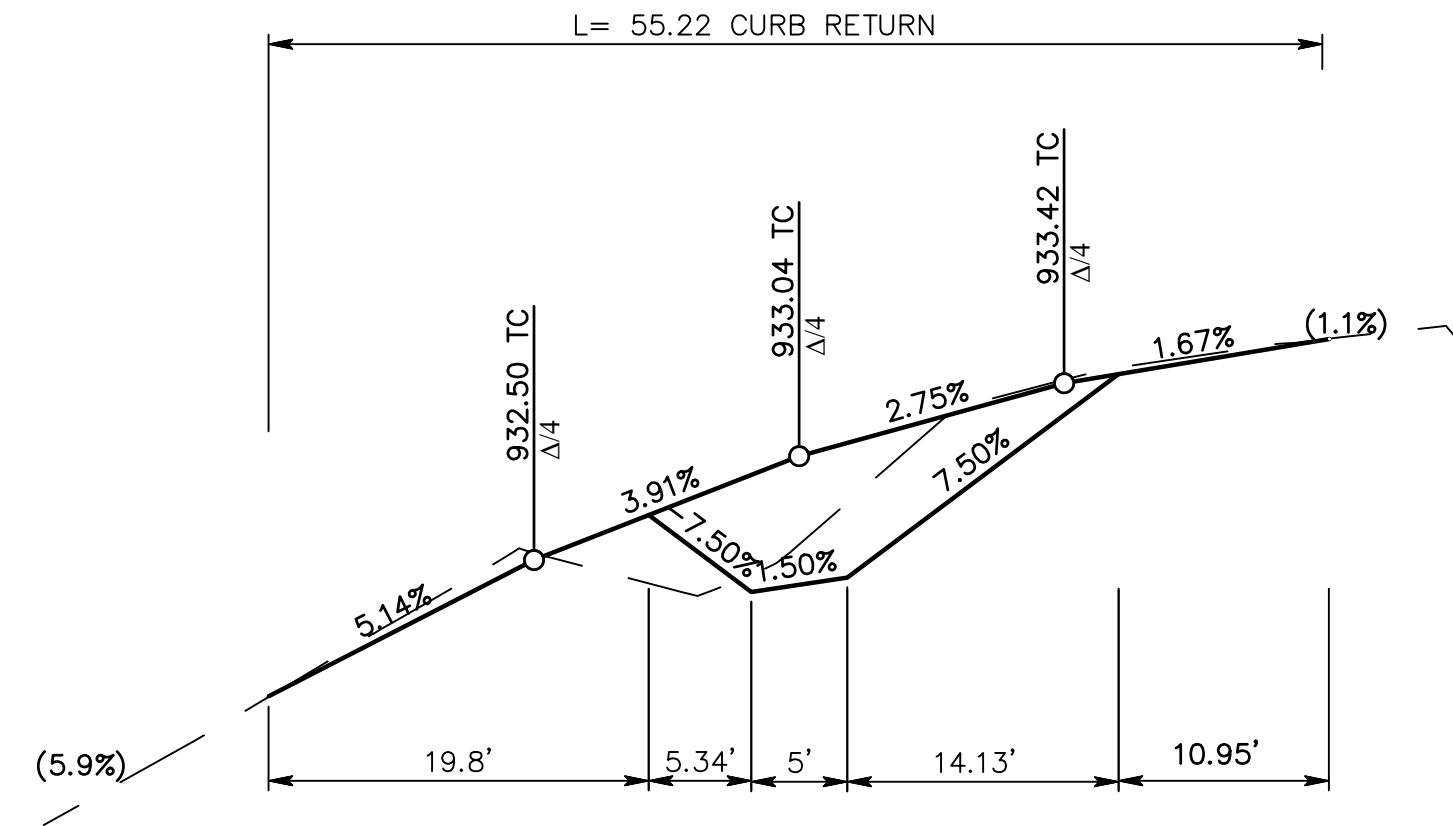
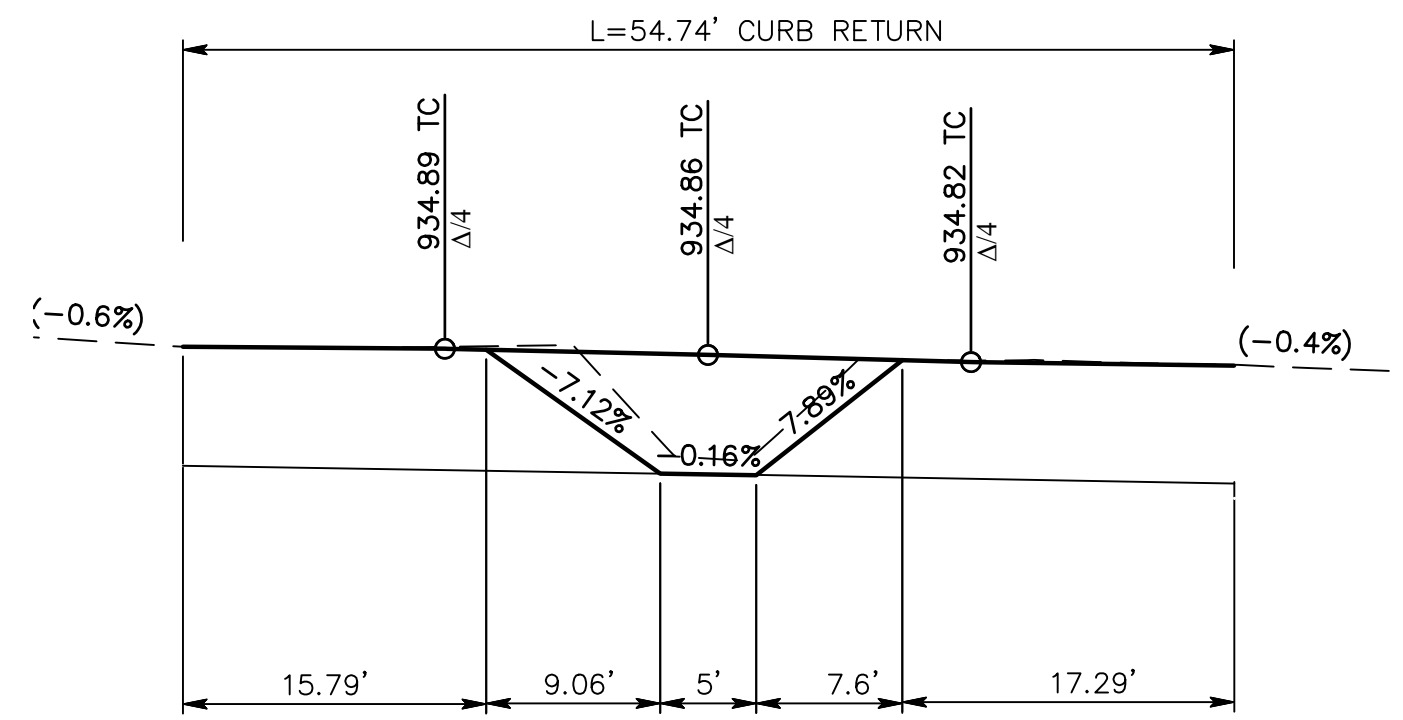
A horizontal graphic scale bar with a black and white checkered pattern on the left and a solid black pattern on the right. The bar is divided into four equal segments, each representing 40 feet. The segments are labeled 0, 40, 80, and 120 at the bottom. The text "GRAPHIC SCALE" is centered above the bar, and "1"=40'" is at the top right.



MISSION BOULEVARD					
MONTCLAIR AREA					
PLAN					
J.L. REF.	W.D. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.	
J.L.11758	H15034	1"=40'	6	15	

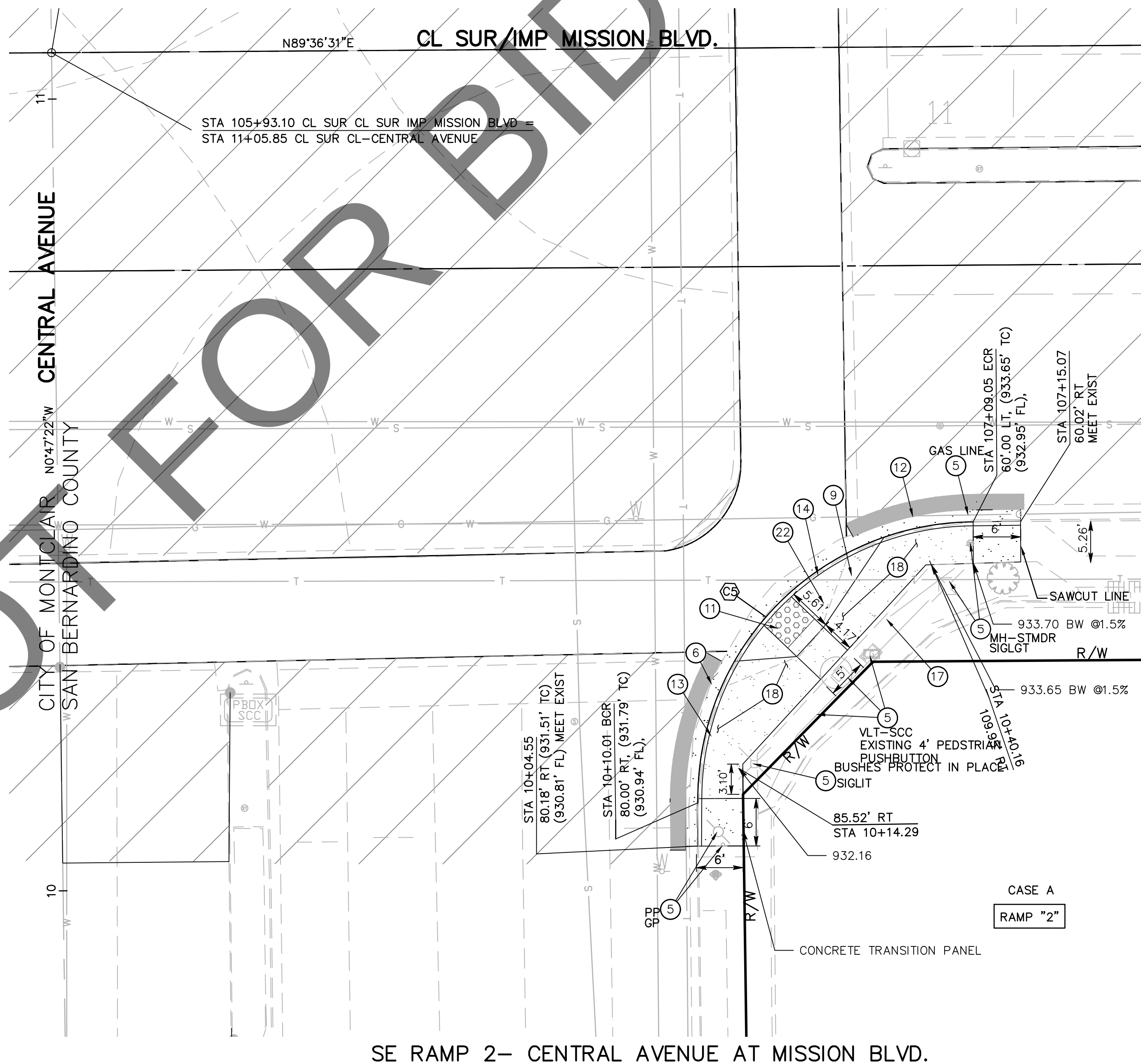
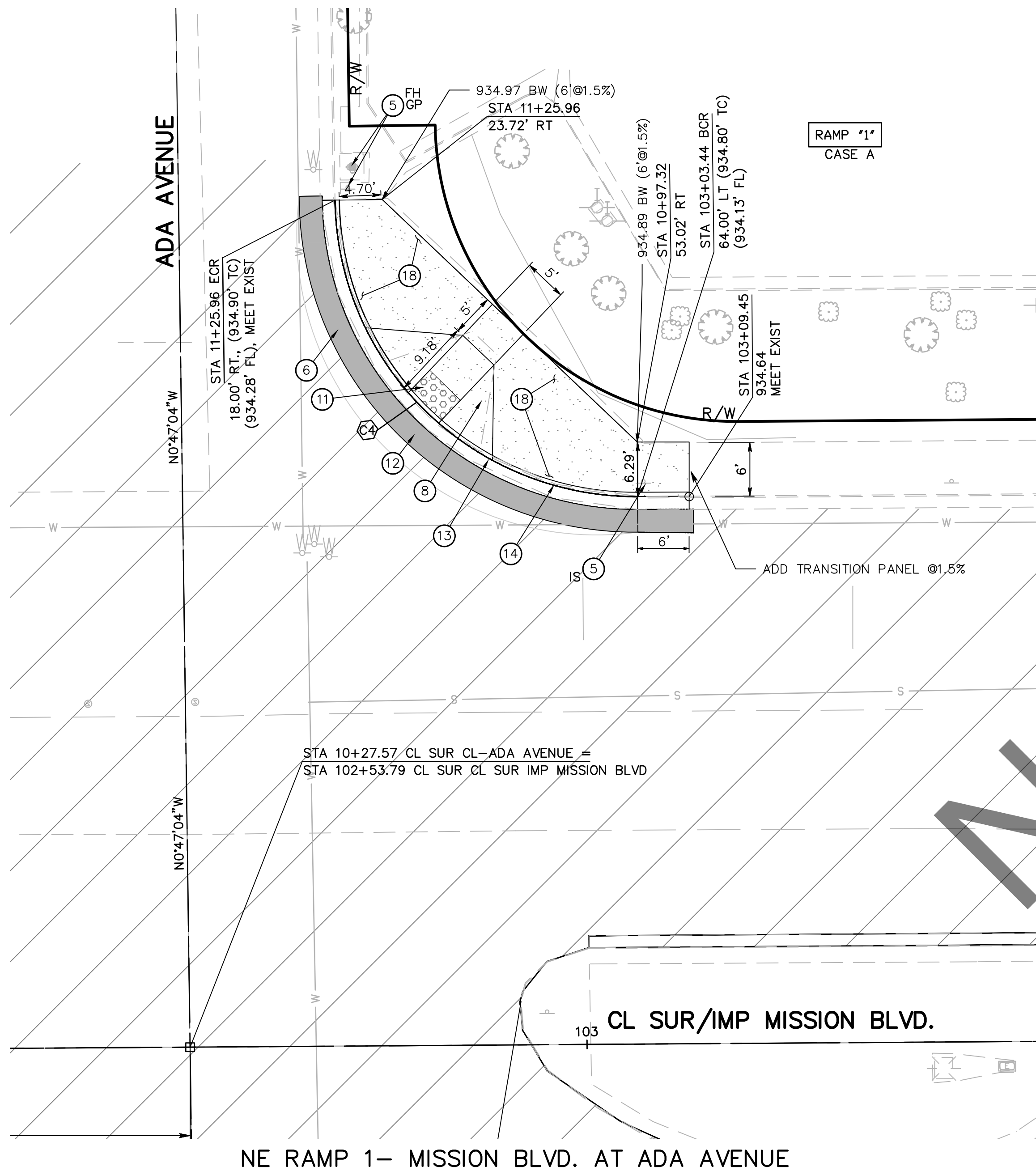
CONSTRUCTION NOTES:	
1	MILL THE ROAD SURFACE FOR A DEPTH OF 0.25'
2	APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05' LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PM 64-10 HMA TO FLATTEN AND LEVEL THE MILLED SURFACE.
3	APPLY GLASPAVE 50 PAVING MAT OR EQUAL. PLACE 0.20' OF TYPE "A", 3/4" AGGREGATE GRADATION, PM 64-28 PM HMA.
5	PROTECT-IN-PLACE.

* NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL
BE PROTECTED IN PLACE

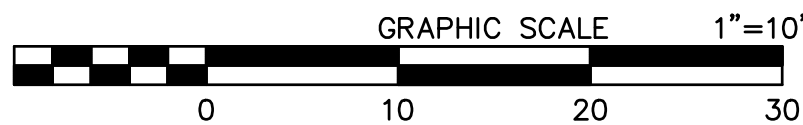


- CONSTRUCTION NOTES:
- 2 APPLY TACK COAT TO THE MILLED SURFACE 0.05" LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PG 64-10 TYPICAL AND LEVEL THE MILLED SURFACE.
 - 5 PROTECT-IN-PLACE.
 - 6 SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING
 - 8 CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE A
 - 9 CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE B
 - 11 PLACE DETECTABLE WARNING SURFACE PER CALTRANS STD RSP A88A.
 - 12 PLACE 0.67" ASPHALT CONCRETE TYPE A, 3/4" AGGREGATE GRADATION HMA OVER COMPACTED NATIVE PER DETAIL A (SHEET 3)
 - 13 CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 115
 - 14 REMOVE EXISTING CONCRETE CURB AND GUTTER.
 - 17 INSTALL 6" RETAINING CURB PER CALTRANS STD A88A
 - 18 SAWCUT & REMOVE CONCRETE SURFACING (RAMP, SIDEWALK AND SPANDREL)
 - 22 PLACE COLORED CONCRETE TO MATCH EXISTING (CENTRAL & BENSON)
- *ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE

PROFILE RAMP 2



- *NOTE: ELEVATIONS SHOWN ON RAMPS 1 & 2 DETAILS ARE INTERPOLATED AND APPROXIMATE ONLY. RAMPS GRADES AND DISTANCE SHALL GOVERN AS SHOWN PER CALTRANS STANDARD A88A SEE PLAN VIEW AND PROFILE FOR ADDITIONAL DETAILS.
- *NOTE: ALL SEWER MANHOLES AND WATER VALVES SHALL BE PROTECTED IN PLACE



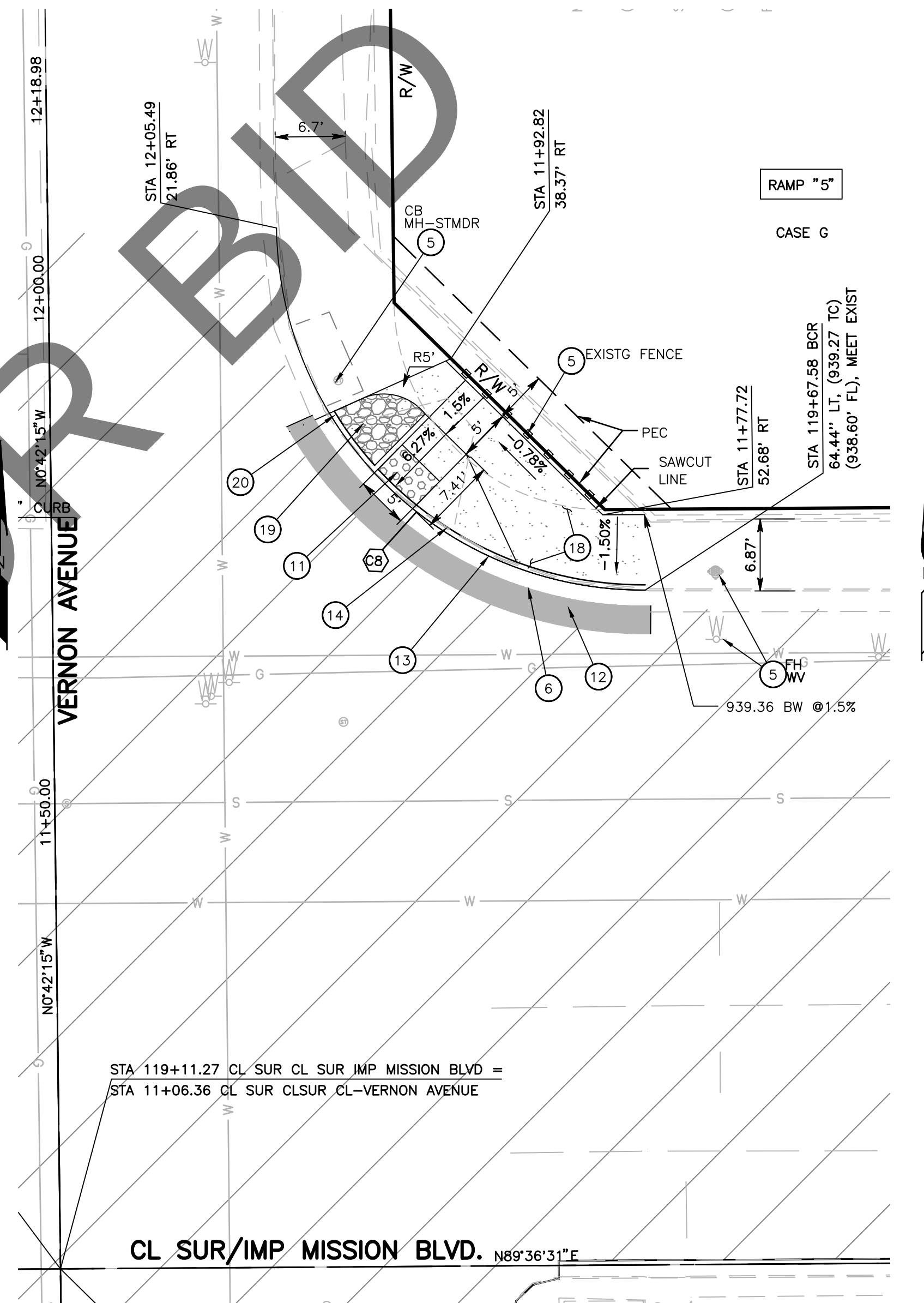
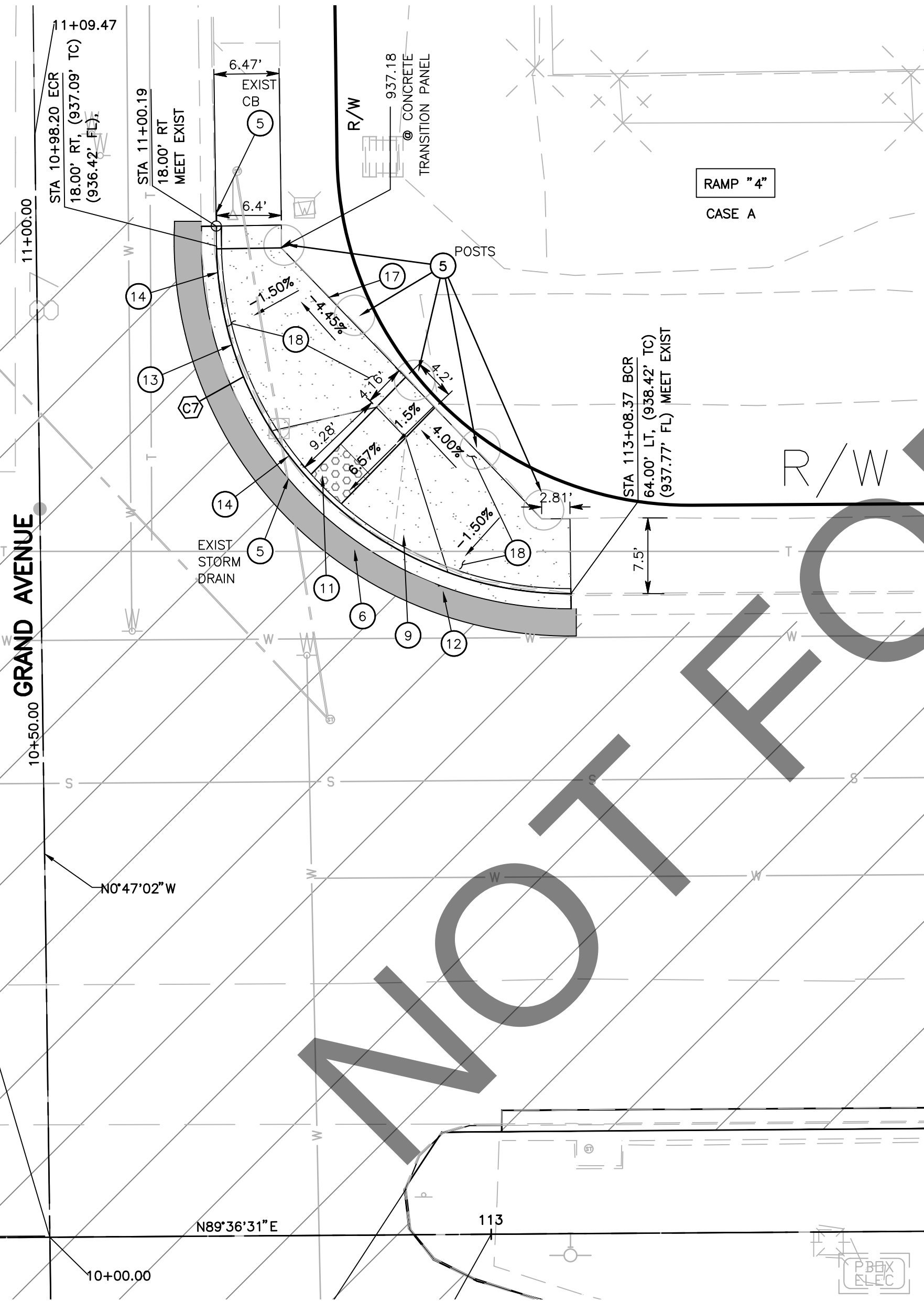
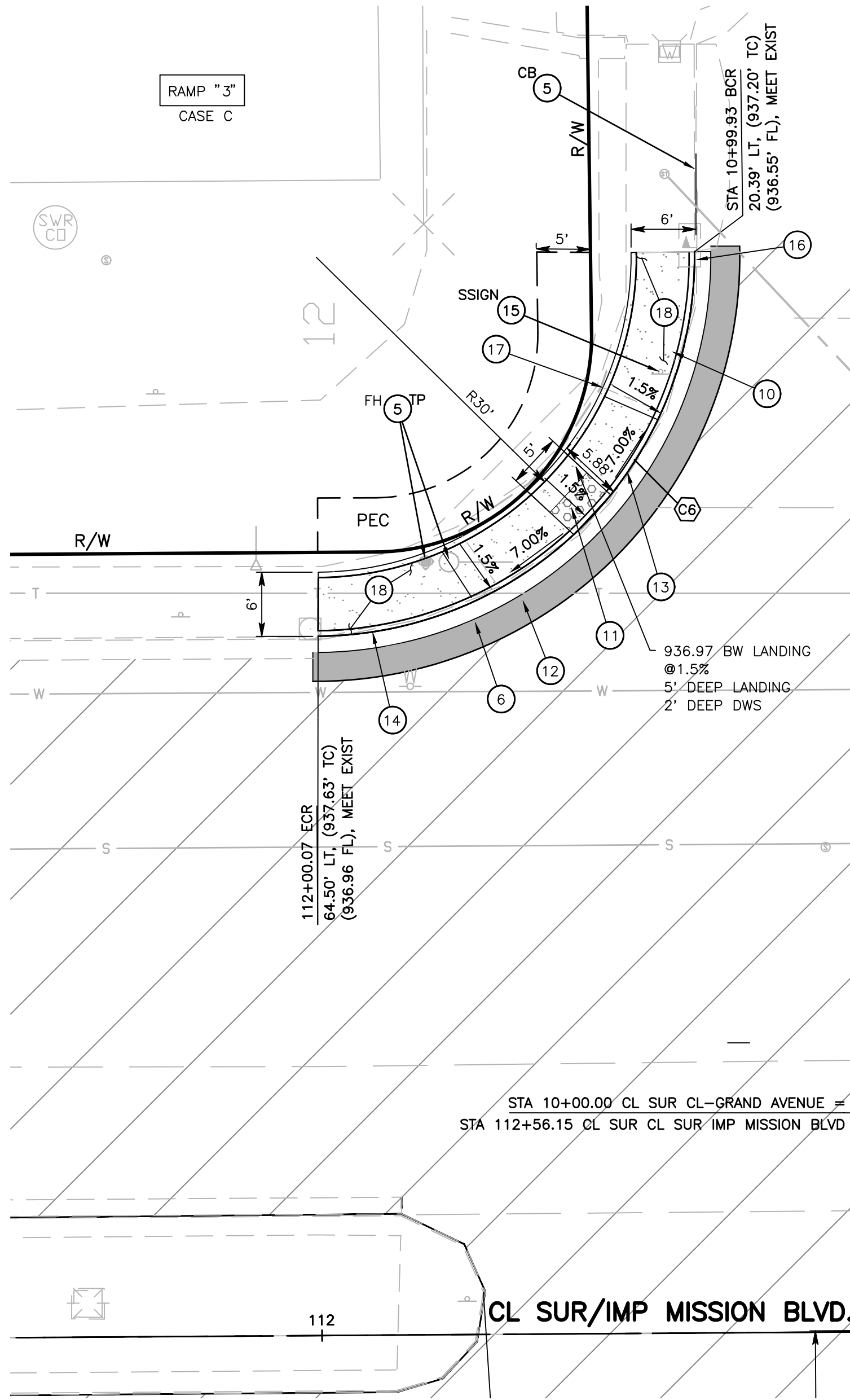
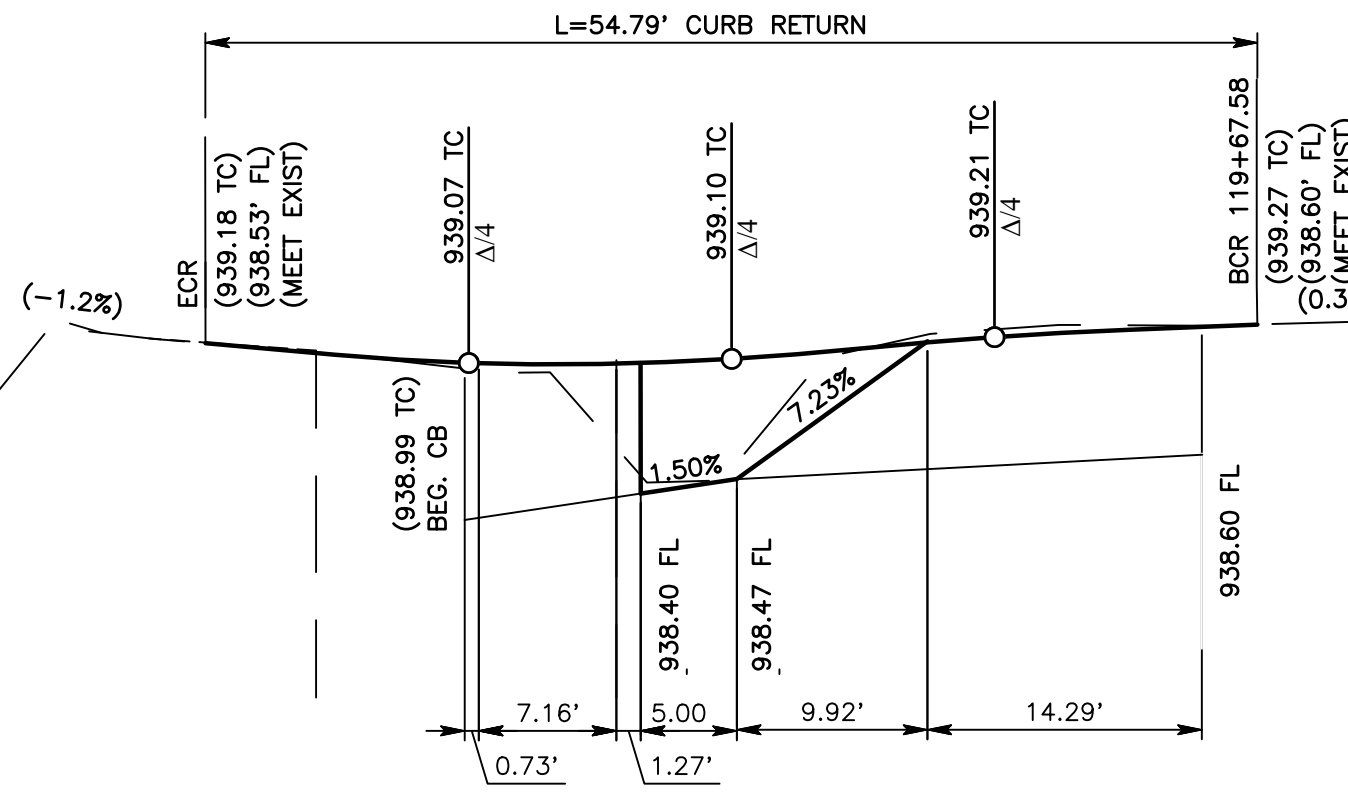
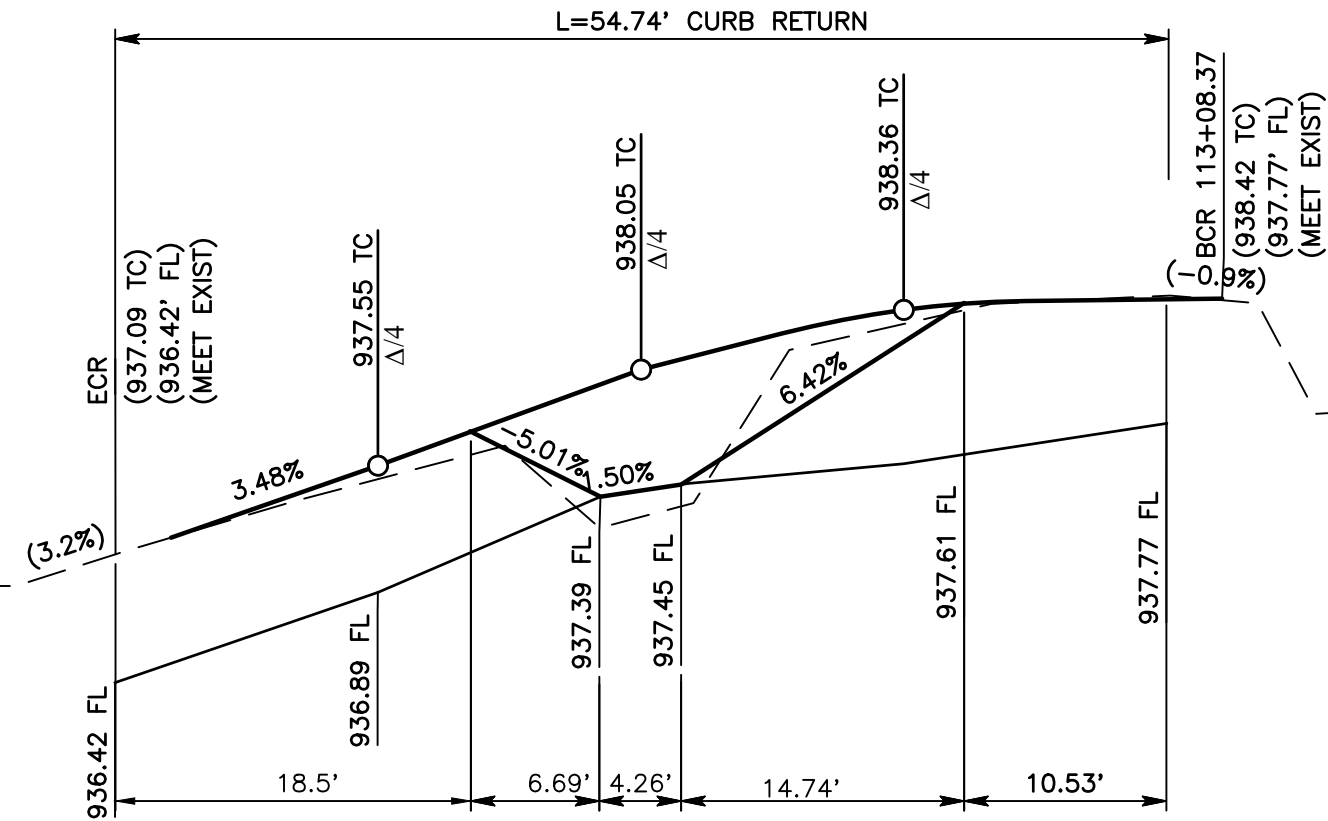
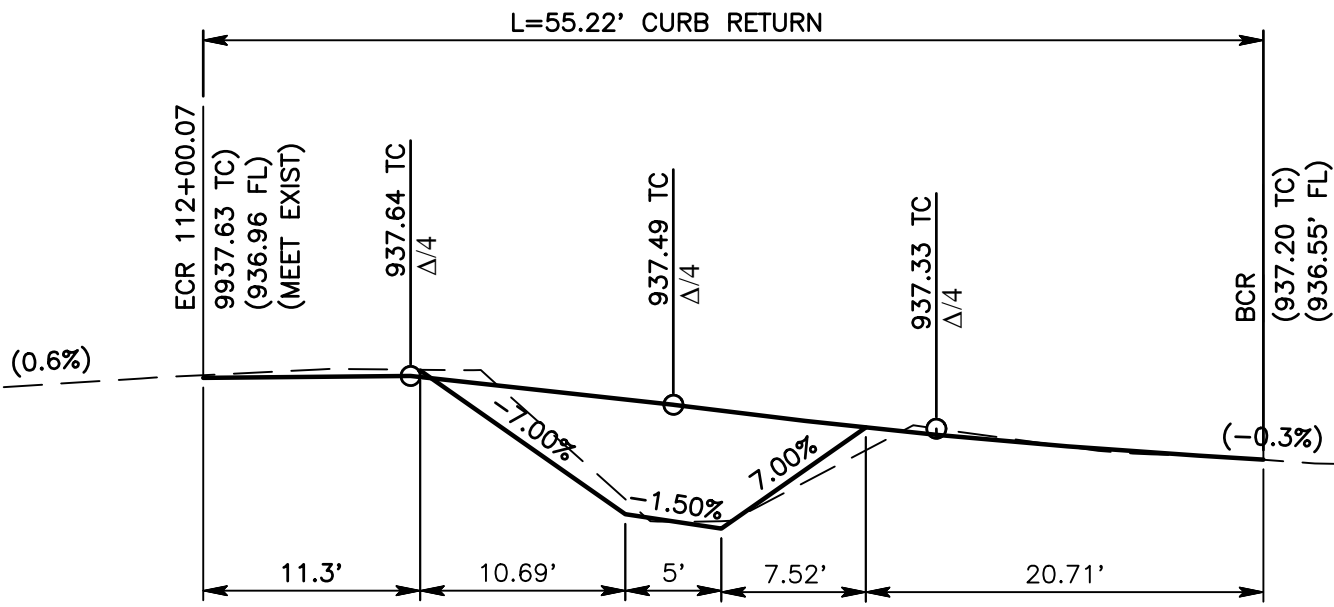
MARK		CHANGES		RESIDENT ENGINEER	
NO CHANGES					

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY: SB	DRAWN BY: MS	CHECKED BY: TB	RECOMMENDED BY: Chris Nguyen, P.E., ENGINEERING MANAGER
Thomas Bustamonte, 2/27/23, DATE			APPROVED BY: Mervat N. Mikhail, P.E., DEPUTY DIRECTOR, 03/20/2023, DATE
THOMAS BUSTAMONTE, P.E., SUPERVISING ENGINEER			

MISSION BOULEVARD MONTCLAIR AREA PLAN RAMPS 1,2				
J.L. REF. J.L.11758	W.O. NO. H15034	PLAN SCALE 1"=10'	SHT. NO. 7	TOT. SHT'S 15

- CONSTRUCTION NOTES:
- APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05' LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PG 64-10 HMA TO FLATTEN AND LEVEL THE MILLED SURFACE.
 - PROTECT-IN-PLACE.
 - SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING
 - CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP AB8A CASE B
 - CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP AB8A CASE C
 - PLACE DETECTABLE WARNING SURFACE PER CALTRANS STD RSP AB8A.
 - PLACE 0.67" ASPHALT CONCRETE TYPE A, 3/4" AGGREGATE GRADATION HMA OVER COMPACTED NATIVE PER DETAIL A (SHEET 3)
 - CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 116
 - REMOVE EXISTING CONCRETE CURB AND GUTTER.
 - EXISTING SIGN TO BE RESET PER SIGNING AND STRIPING PLANS
 - INSTALL 6" RETAINING CURB PER CALTRANS STD AB8A
 - SAWCUT & REMOVE CONCRETE SURFACING (RAMP, SIDEWALK AND SPANDREL)
 - CONSTRUCT GROUTED ROCK TREATMENT PER SAN BERNARDINO COUNTY SPEC DWG NO. 112
 - CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP AB8A CASE G
 - PLACE COLORED CONCRETE TO MATCH EXISTING (CENTRAL & BENSON)

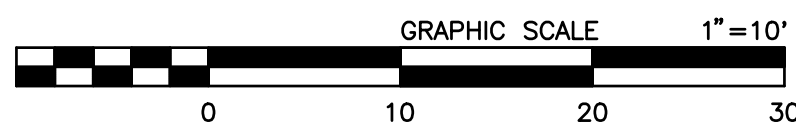
*ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE



*NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL
BE PROTECTED IN PLACE

*NOTE:
ELEVATIONS SHOWN ON RAMPS 3, 4 & 5 DETAILS ARE
INTERPOLATED AND APPROXIMATE ONLY.
RAMPS GRADES AND DISTANCE SHALL GOVERN AS SHOWN
PER CALTRANS STANDARD AB8A
SEE PLAN VIEW AND PROFILE FOR ADDITIONAL DETAILS.

E.P. OR T.C. RETURN DATA				
NO.	R	D	L	T
C6	35.00'	090°23'33"	55.22'	35.24'
C7	35.00'	089°36'27"	54.74'	34.76'
C8	35.00'	089°41'13"	54.79'	34.81'



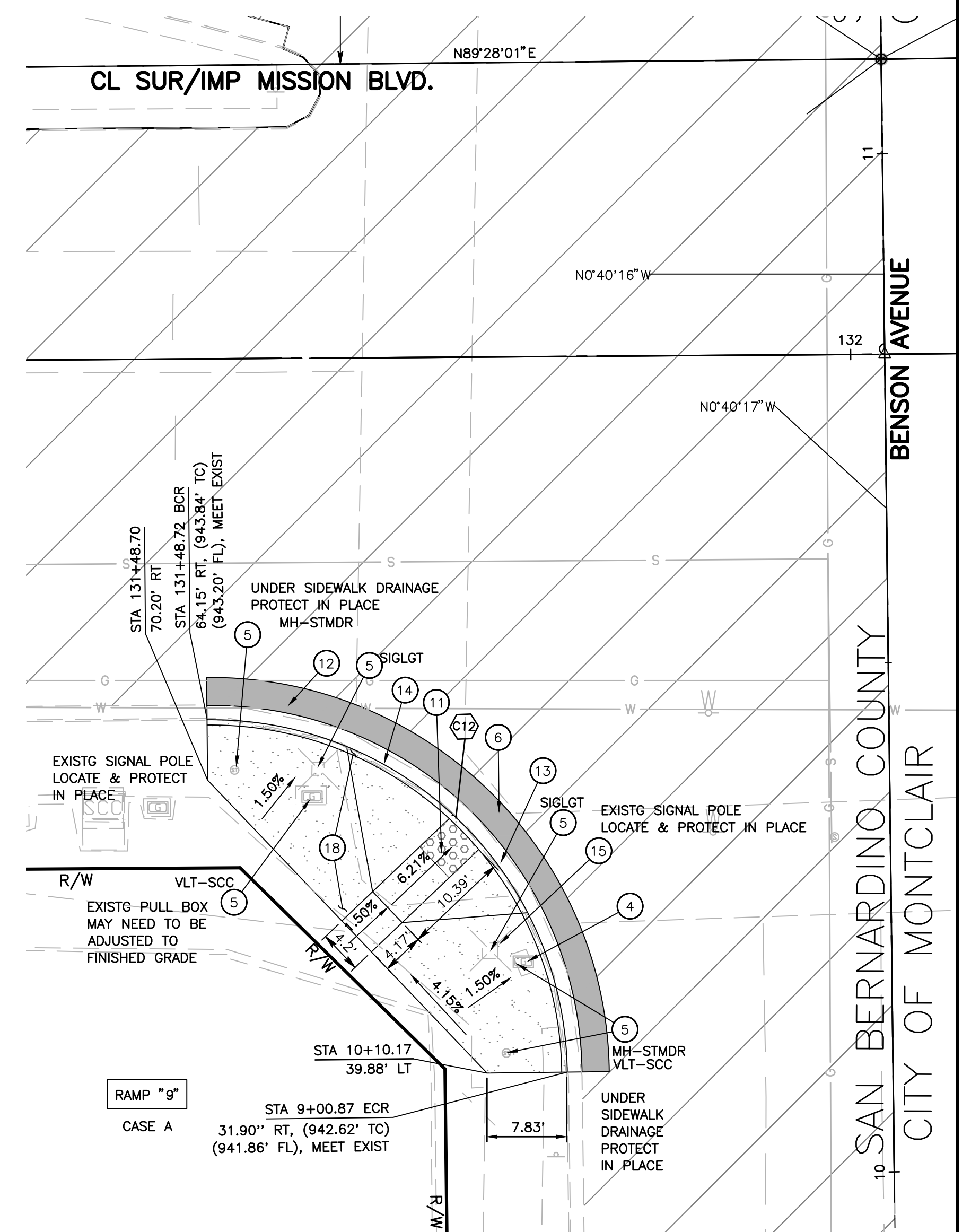
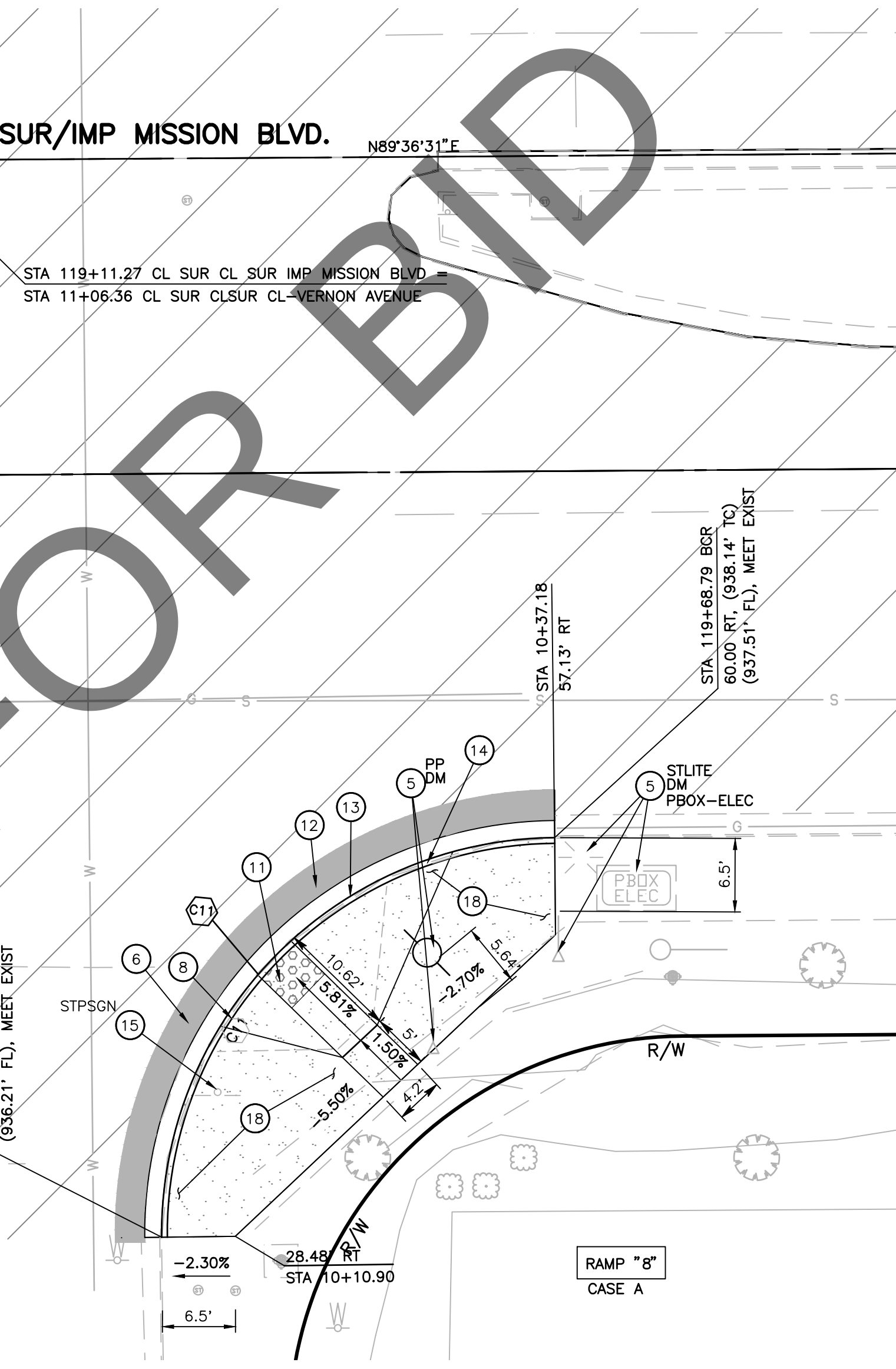
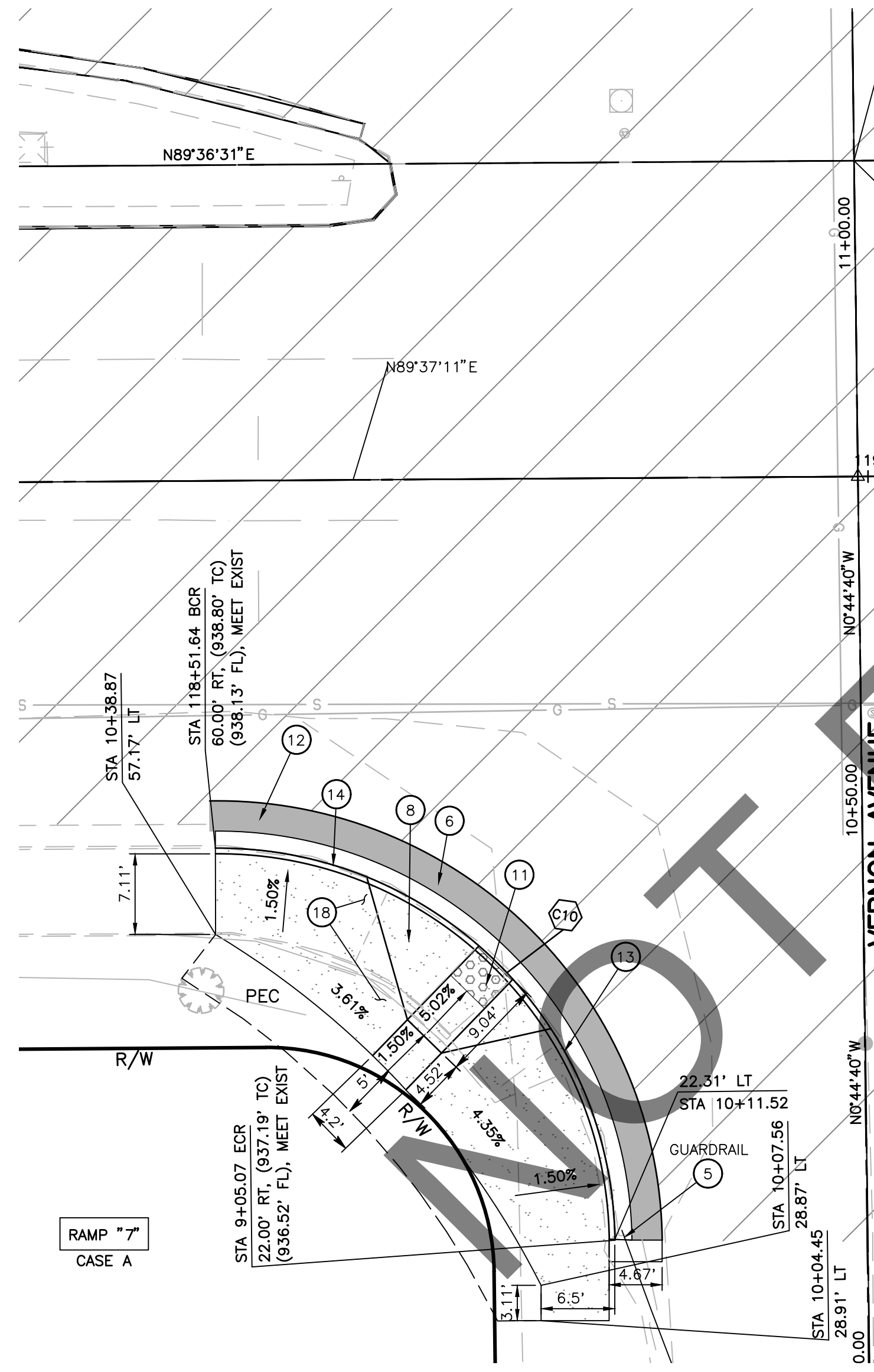
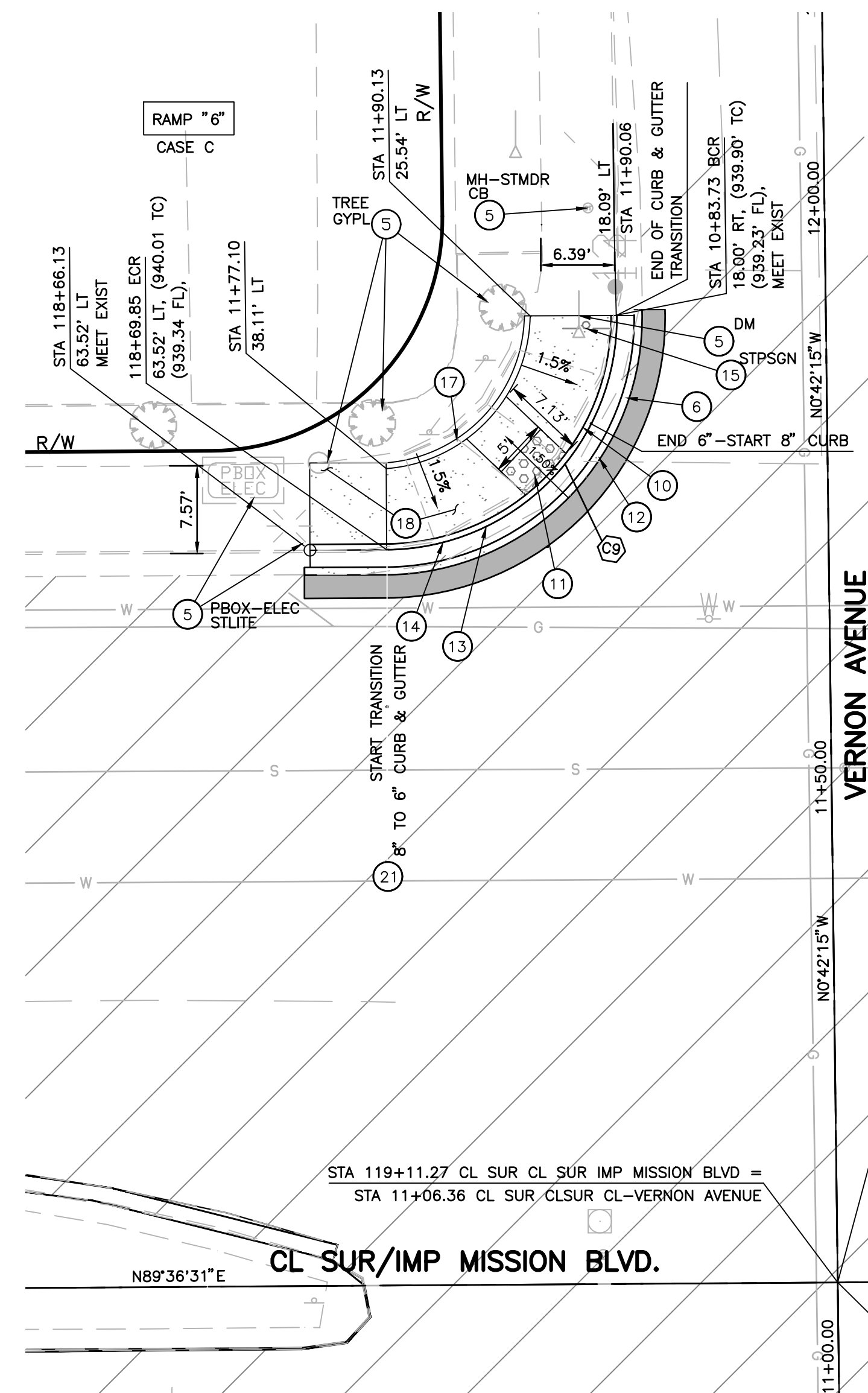
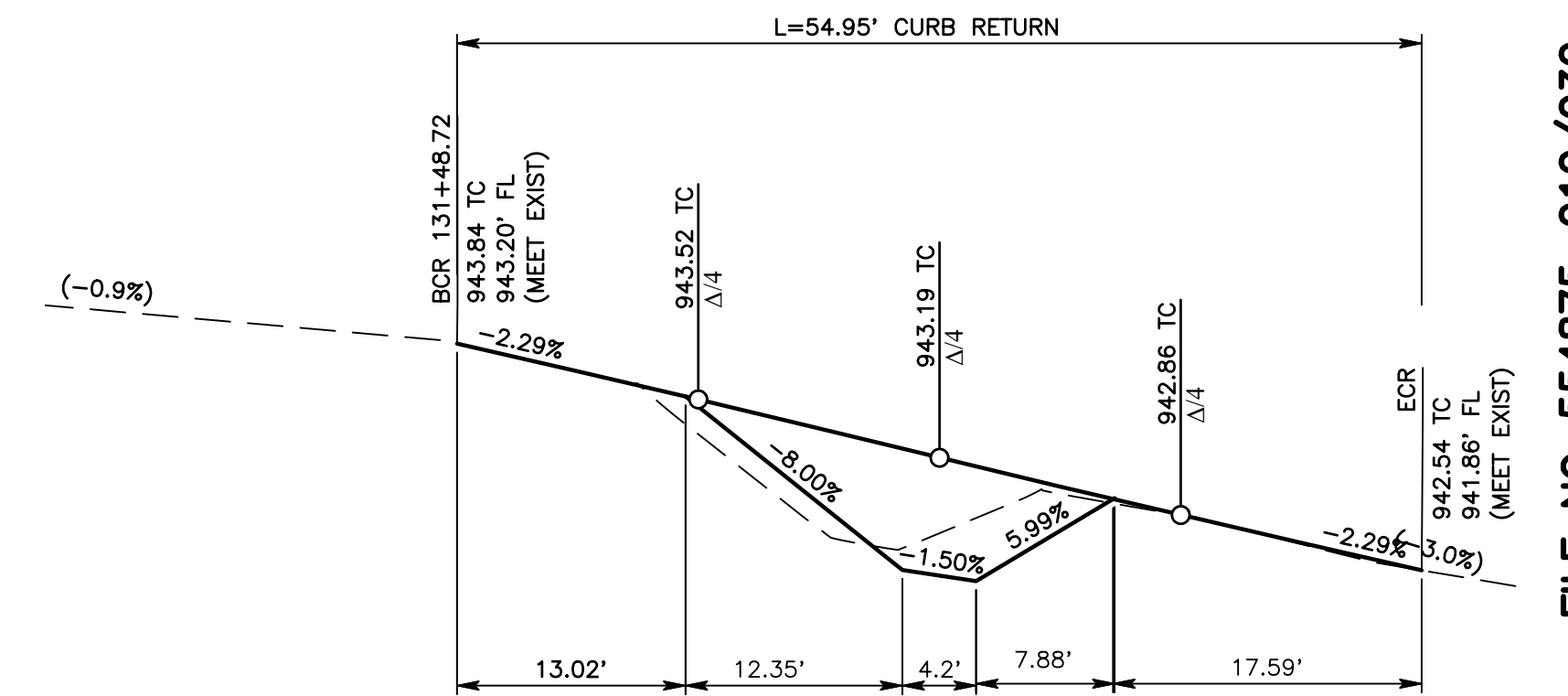
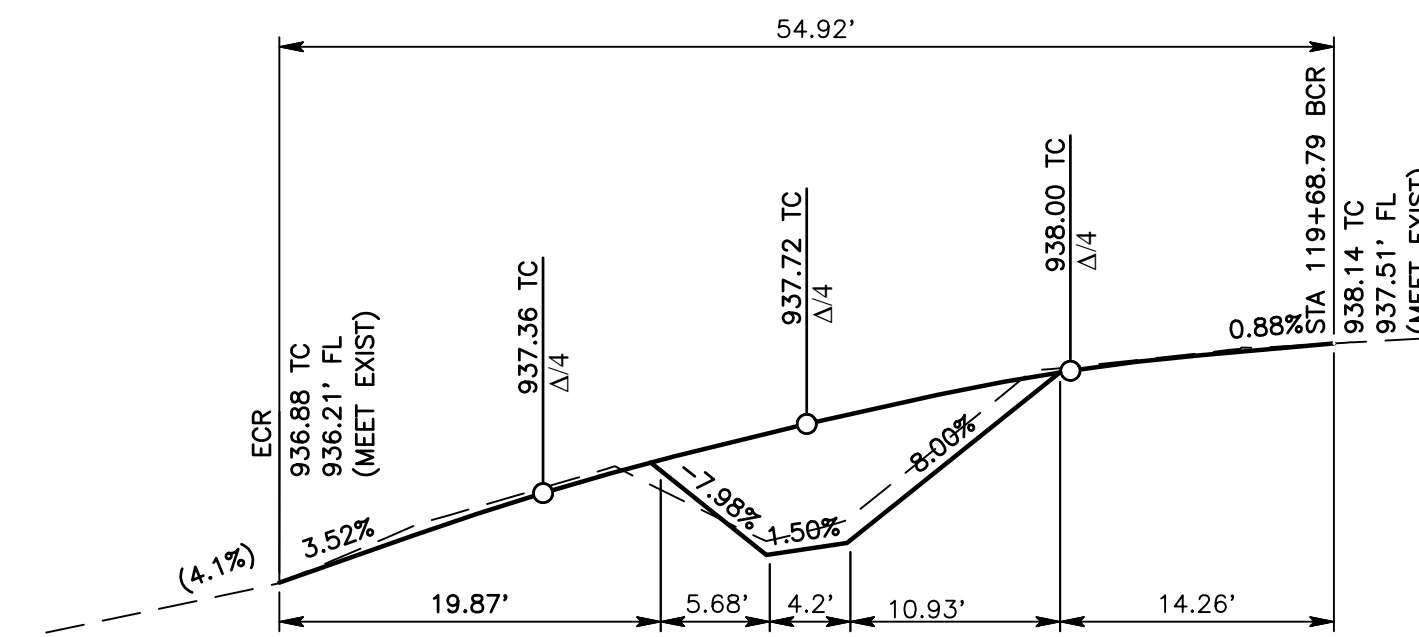
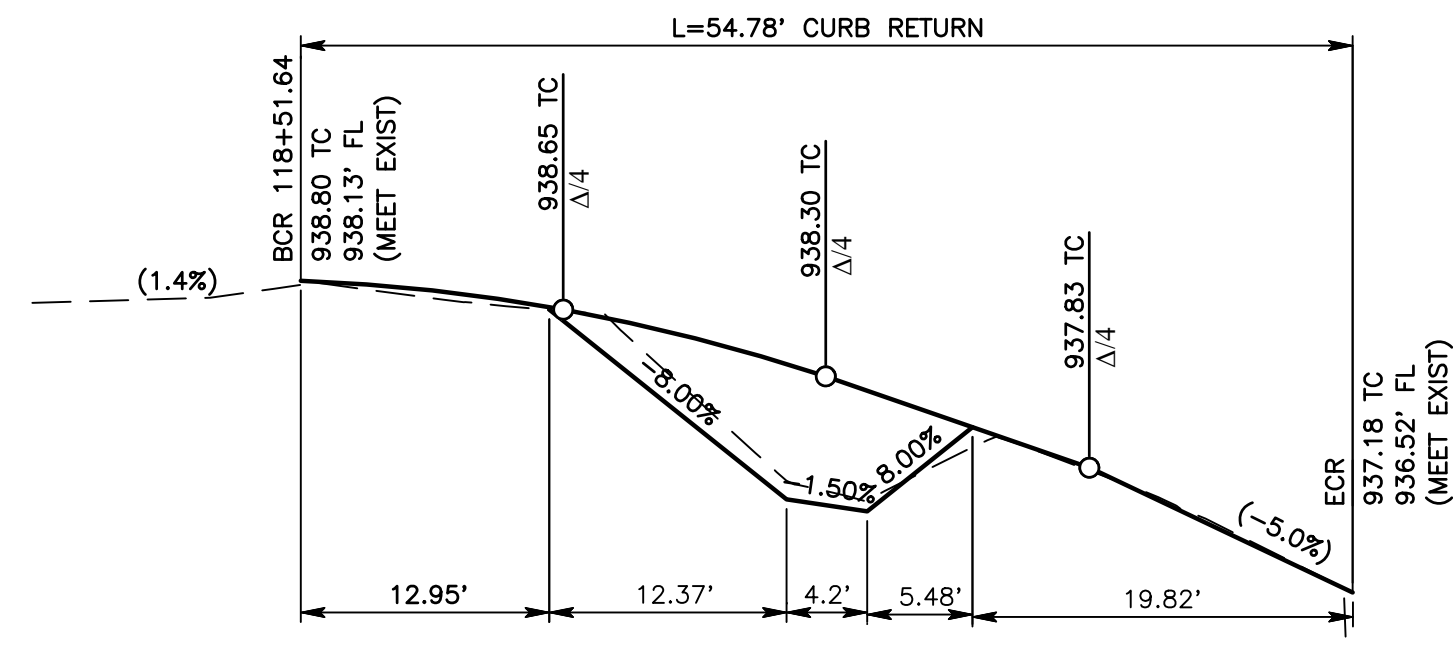
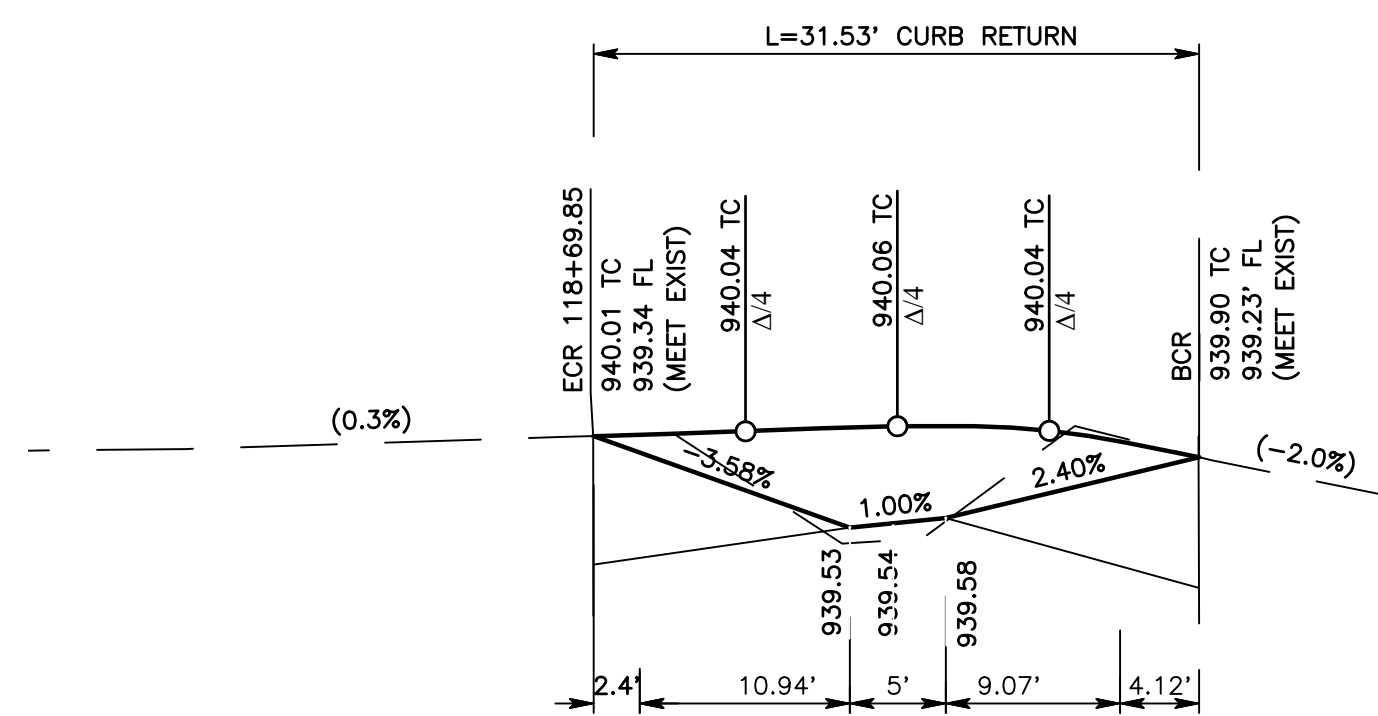
MARK	CHANGES	RESIDENT ENGINEER
	NO CHANGES	

FIELD CHANGES



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
SB	MS	TR	Chris Nguyen, P.E. ENGINEERING MANAGER
Thomas Bustamonte THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER		2/27/23 DATE	03/20/2023 DATE

MISSION BOULEVARD MONTCLAIR AREA PLAN RAMPS 3,4,5				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L.11758	H15034	1"=10'	8	15

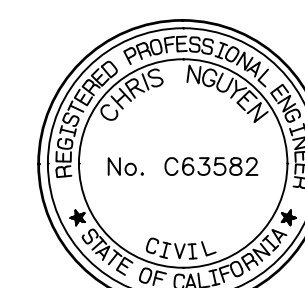


E.P. OR T.C. RETURN DATA				
NO.	R	D	L	T
C9	20.00'	090°18'47"	31.53'	20.11'
C10	35.00'	089°40'31"	54.78'	34.80'
C11	35.00'	089°54'13"	54.92'	34.94'
C12	35.00'	089°57'30"	54.95'	34.97'

- | | |
|----|--|
| 1 | CONSTRUCTION NOTES: |
| 2 | APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05" LEVELING COURSE TYPE A, 3/8" AGGREGATE GRADATION, PG 64-10 HMA TO FLATTEN AND LEVEL THE MILLED SURFACE. |
| 4 | ADJUST PULL BOX AND RELOCATE OUTSIDE OF RAMP WINGS |
| 5 | PROTECT-IN-PLACE. |
| 6 | SAWCUT AND REMOVE EXISTING ASPHALT CONCRETE SURFACING |
| 8 | CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE A |
| 10 | CONSTRUCT SIDEWALK & RAMP PER CALTRANS STD RSP A88A CASE C |
| 11 | PLACE DETECTABLE WARNING SURFACE PER CALTRANS STD RSP A88A. |
| 12 | PLACE 0.67" ASPHALT CONCRETE TYPE A, 3/4" AGGREGATE GRADATION HMA OVER COMPACTED NATIVE PER DETAIL A (SHEET 3) |
| 13 | CONSTRUCT 8" CURB AND GUTTER PER COUNTY STD 115 |
| 14 | REMOVE EXISTING CONCRETE CURB AND GUTTER. |
| 15 | EXISTING SIGN TO BE RESET PER SIGNING AND STRIPING PLANS |
| 17 | INSTALL 6" RETAINING CURB PER CALTRANS STD A88A |
| 18 | SAWCUT & REMOVE CONCRETE SURFACING (RAMP, SIDEWALK AND SPANDREL) |

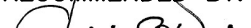
* ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE

* NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL
BE PROTECTED IN PLACE



MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER _____

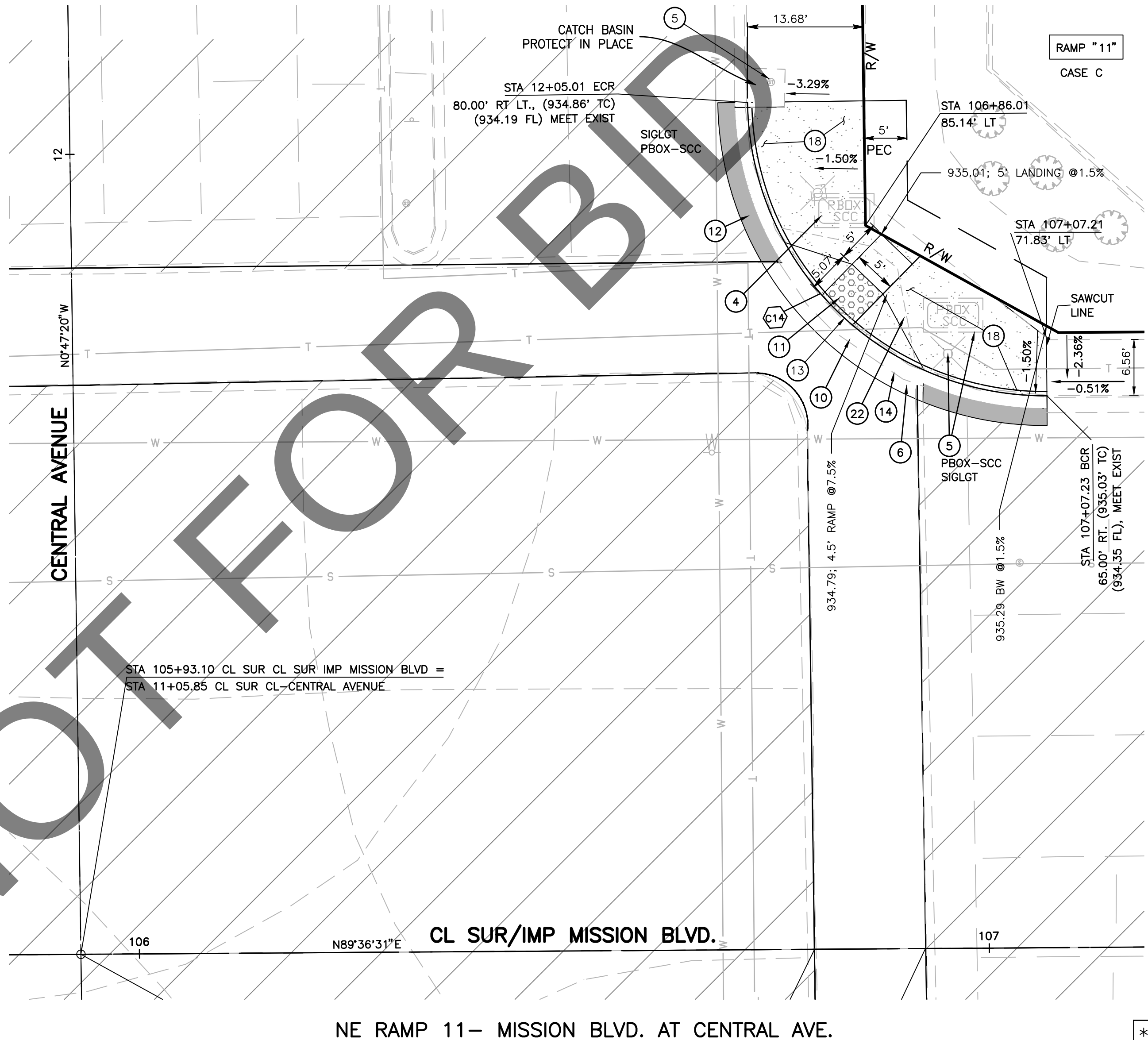
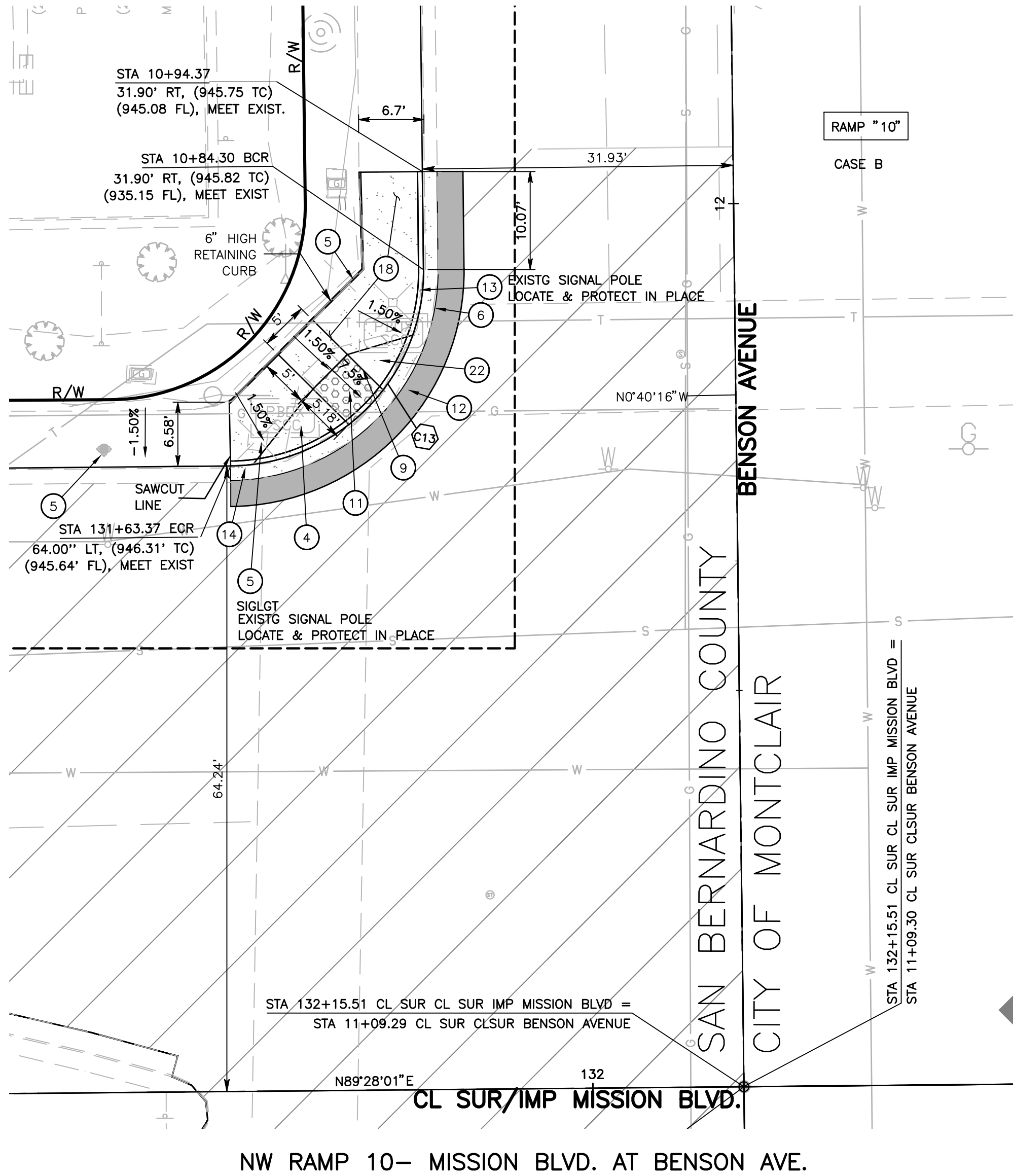
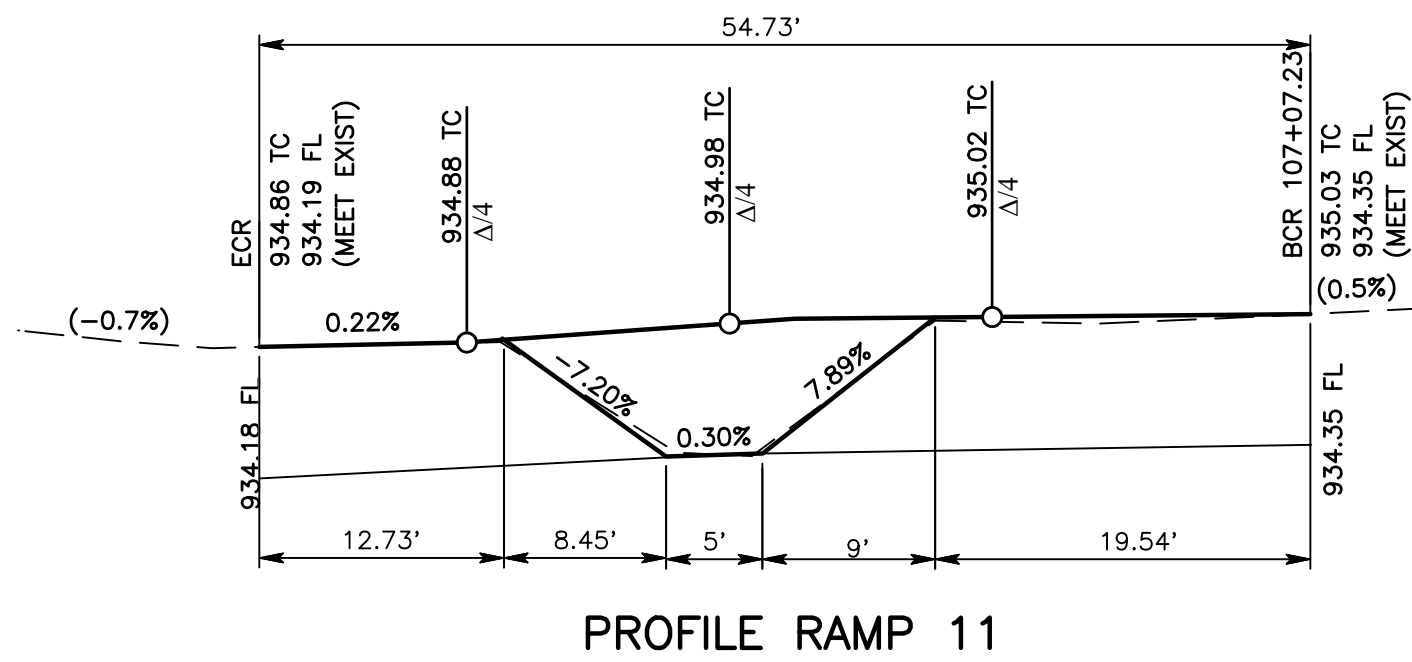
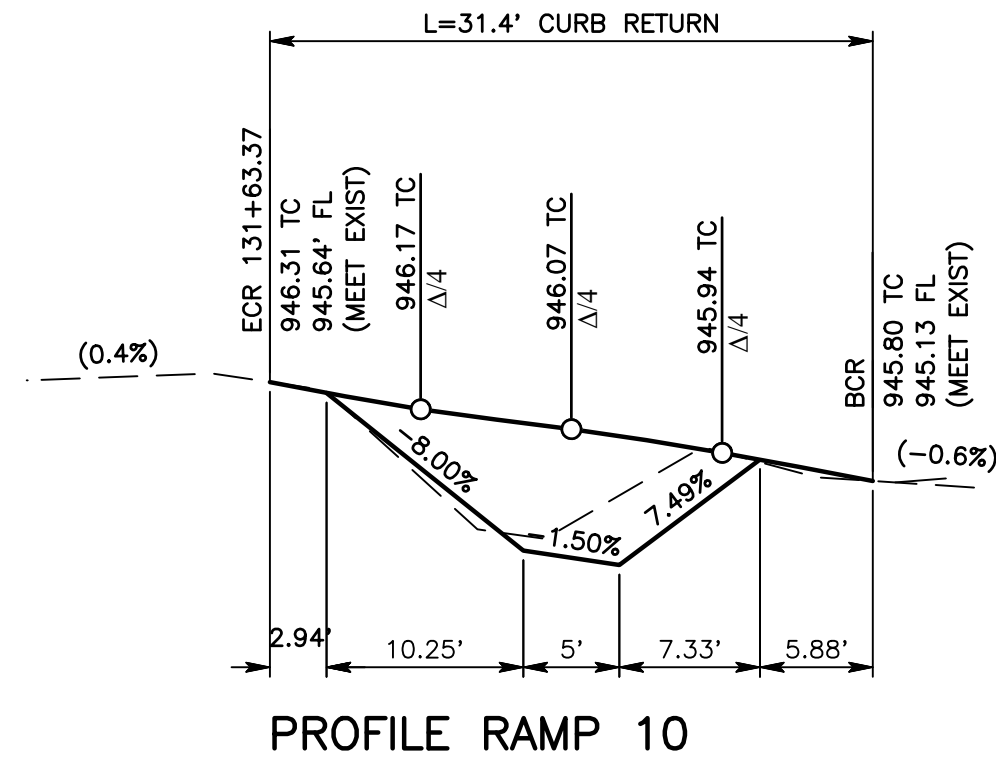
FIELD CHANGES

SAN BERNARDINO COUNTY			
DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
SB	MS	TB	 CHRIS NGUYEN, P.E. ENGINEERING MANAGER
			03/20/2023
			DATE
<i>Thomas Bustamonte</i> THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER			APPROVED BY:  MERAT N. MIKHAIL, P.E. DEPUTY DIRECTOR
2/27/23			03/20/2023
DATE			DATE

MISSION BOULEVARD				
MONTCLAIR AREA				
PLAN				
RAMPS 6-9				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L.11758	H15034	1"=10'	9	14

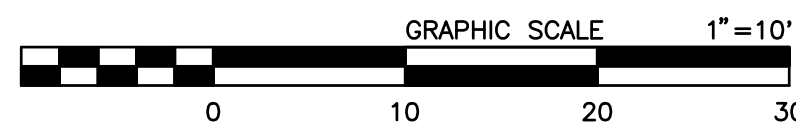
FILE NO. 5548/5-010/030

FILE NO. 554875-010/030



- CONSTRUCTION NOTES:
- APPLY TACK COAT TO THE MILLED SURFACE. PLACE 0.05\"/>

E.P. OR T.C. RETURN DATA				
NO.	R	D	L	T
C13	20.00'	090°08'19"	31.46'	20.05'
C14	35.00'	089°35'44"	54.73'	34.75'



* NOTE:
ALL SEWER MANHOLES AND WATER VALVES SHALL
BE PROTECTED IN PLACE

* NOTE:
ELEVATIONS SHOWN ON RAMPS 10 & 11 DETAILS ARE INTERPOLATED
AND APPROXIMATE ONLY.
RAMPS GRADES AND DISTANCE SHALL GOVERN AS SHOWN PER
CALTRANS STANDARD AB8A
SEE PLAN VIEW AND PROFILE FOR ADDITIONAL DETAILS.

* ALL SIDEWALK REMOVALS AND CONSTRUCTION IS TO BE TAKEN TO THE NEAREST JOINT LINE

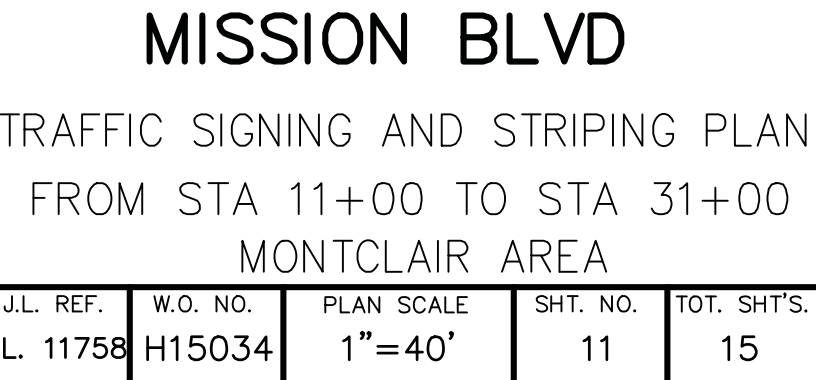
MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



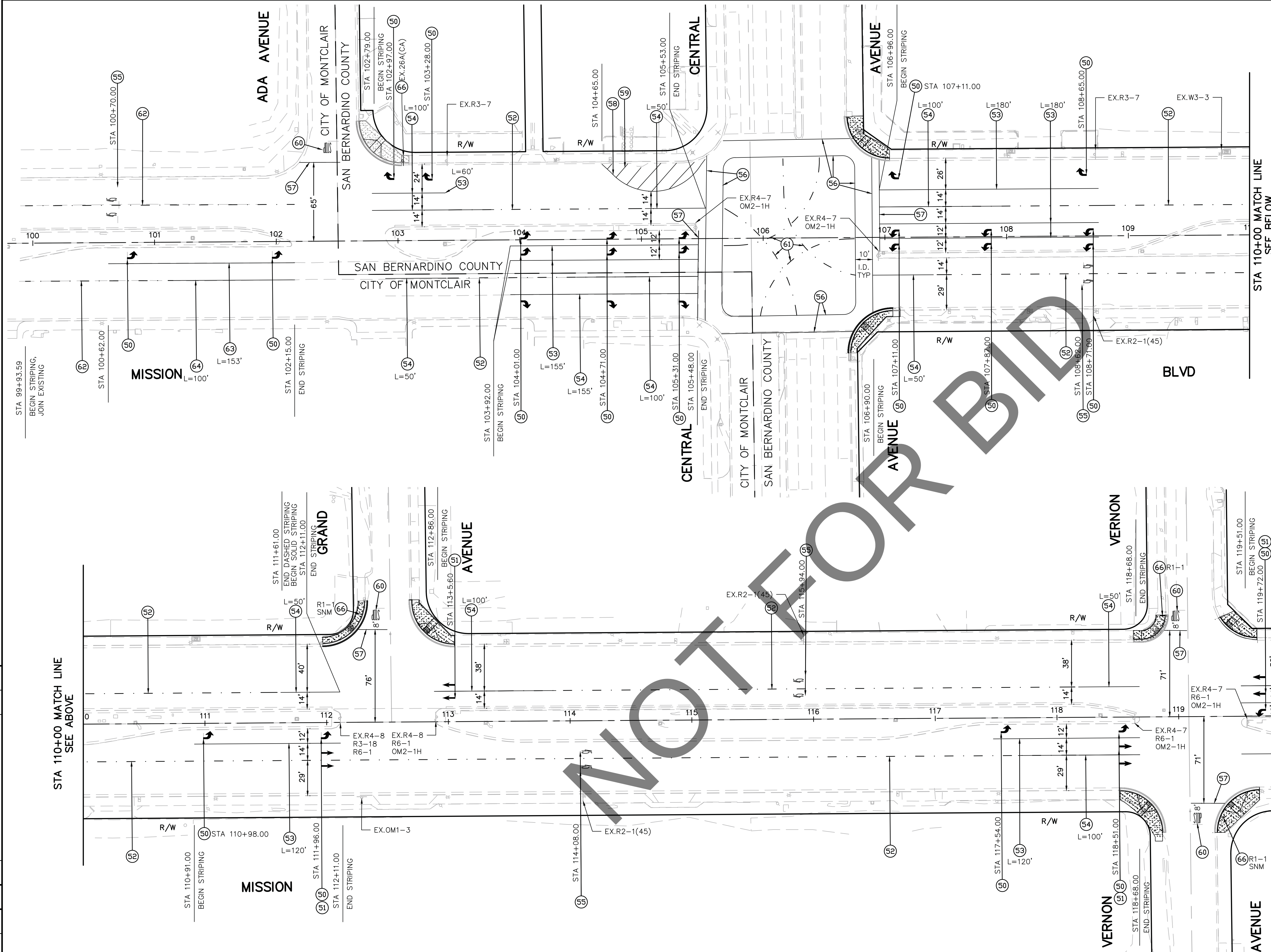
SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
SB	MS	TR	Chris Nguyen, P.E. ENGINEERING MANAGER
Thomas Bustamonte THOMAS BUSTAMONTE, P.E. SUPERVISING ENGINEER			03/20/2023 DATE
2/27/23 DATE			03/20/2023 DATE

MISSION BOULEVARD MONTCLAIR AREA PLAN RAMP 10,11				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHT'S.
J.L.11758	H15034	1"=10'	10	15

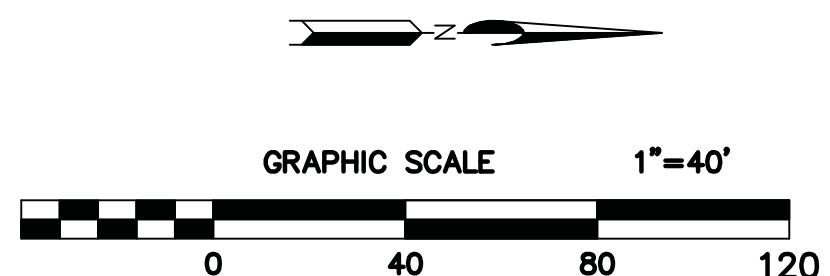
MARK	REVISIONS	APPR.	DATE



Y:\Design\Plan Reviews\H15034 Mission Blvd\CAD\JL11758 Mission Blvd-ROCKY 12-7-2022.dwg-1/4/2023 1:04:43 PM-1/4/2023 1:06:11 PM

[illegible]

- ## TRAFFIC SIGNING AND STRIPING NOTES:
- (50) APPLY TYPE IV ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A
 - (51) APPLY TYPE I (10'-0") ARROW PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24A
 - (52) APPLY 6-INCH DASHED WHITE LINE AND PAVEMENT MARKERS PER 2018 CALTRANS STANDARD PLAN A20A, DETAIL 12
 - (53) APPLY 8-INCH WIDE, SOLID WHITE CHANNELIZING LINE PER CALTRANS 2018 STANDARD PLAN A20D, DETAIL 38
 - (54) APPLY 6-INCH WIDE, SOLID WHITE LANE LINE AS SHOWN ON PLAN
 - (55) INSTALL PAVEMENT MARKING PER 2018 CALTRANS STANDARD PLAN A24C
 - (56) APPLY 12-INCH WHITE CROSSWALK LINE PER 2018 CALTRANS STANDARD PLAN A24F
 - (57) APPLY 12-INCH LIMIT LINE PER 2018 CALTRANS STANDARD PLAN A24G
 - (58) APPLY 6-INCH WIDE, WHITE EDGE LINE STRIPE PER CALTRANS 2018 STANDARD PLAN A20B, DETAIL 27B
 - (59) APPLY 12-INCH WIDE, DIAGONAL CROSS HATCHING STRIPE PER CA MUTCD 2014, SECTION 3B.24
 - (60) APPLY STOP, SIGNAL, OR AHEAD PAVEMENT MARKING PER CALTRANS 2018 STANDARD PLAN A24D AS SHOWN ON PLAN
 - (61) APPLY 6-INCH WIDE, WHITE LANE EXTENSIONS PER THE CALTRANS 2018 STANDARD PLAN A20D, DETAIL 40
 - (62) INSTALL LANE LINE PER 2015 CALTRANS STANDARD PLAN A20A, DETAIL 13
 - (63) INSTALL CHANNELIZING LINE PER 2015 CALTRANS STANDARD PLAN A24D, DETAIL 38C
 - (64) INSTALL SOLID LANE LINE PER 2015 CALTRANS STANDARD PLAN A 20A, DETAIL 13
 - (66) RESET EXISTING SIGN PER THE CA MUTCD 2014, FIGURE 2A-2(CA)

[illegible]

POLE						SCHEDULE												
STANDARD					LUMINAIRE HPS	RSNS LEGEND	SIGNAL MOUNTING				PPB PHASE	POLE LOCATION					REMARKS	
No.	TYPE	HGT.	SIG. M.A.	LUM. M.A.			VEHICLE					PED	A	B	C	D		E
①	29-5-80	30'	50'	15'	200W	Mission Blvd → 5200 ← 5300	MAS	MAS	MAS	SV-1-T	SP-1-T	-	EXISTING					
②	1-A	10'	-	-	-	-	-	-	-	TV-2-T	SP-1-T	Ø2/Ø4	EXISTING					
③	61-5-100	30'	65'	15'	200W	Central Ave → 10900 ← 10800	MAS	MAS	MAS	SV-1-T	SP-1-T	-	EXISTING					
④	1-A	10'	-	-	-	-	-	-	-	TV-2-T	SP-1-T	Ø4/Ø6	EXISTING					
⑤	29-5-80	30'	50'	15'	200W	Mission Blvd → 5200 ← 5300	MAS	MAS	MAS	SV-1-T	SP-1-T	-	EXISTING					
5A	PPB POST (N)	5'-7"	-	-	-	-	-	-	-	-	-	Ø6(N)/Ø8(N)	17.5'				10'	
⑥	1-A	10'	-	-	-	-	-	-	-	TV-2-T	SP-1-T	-	EXISTING					
⑦	61-5-100	30'	65'	15'	200W	Central Ave → 10900 ← 10800	MAS	MAS	MAS	SV-1-T	SP-1-T	-	EXISTING					
⑧	PPB POST (N)	4'-7"	-	-	-	-	-	-	-	-	-	Ø2/Ø8	EXISTING					
⑨	1-A	10'	-	-	-	-	-	-	-	TV-2-T	SP-1-T	-	EXISTING					

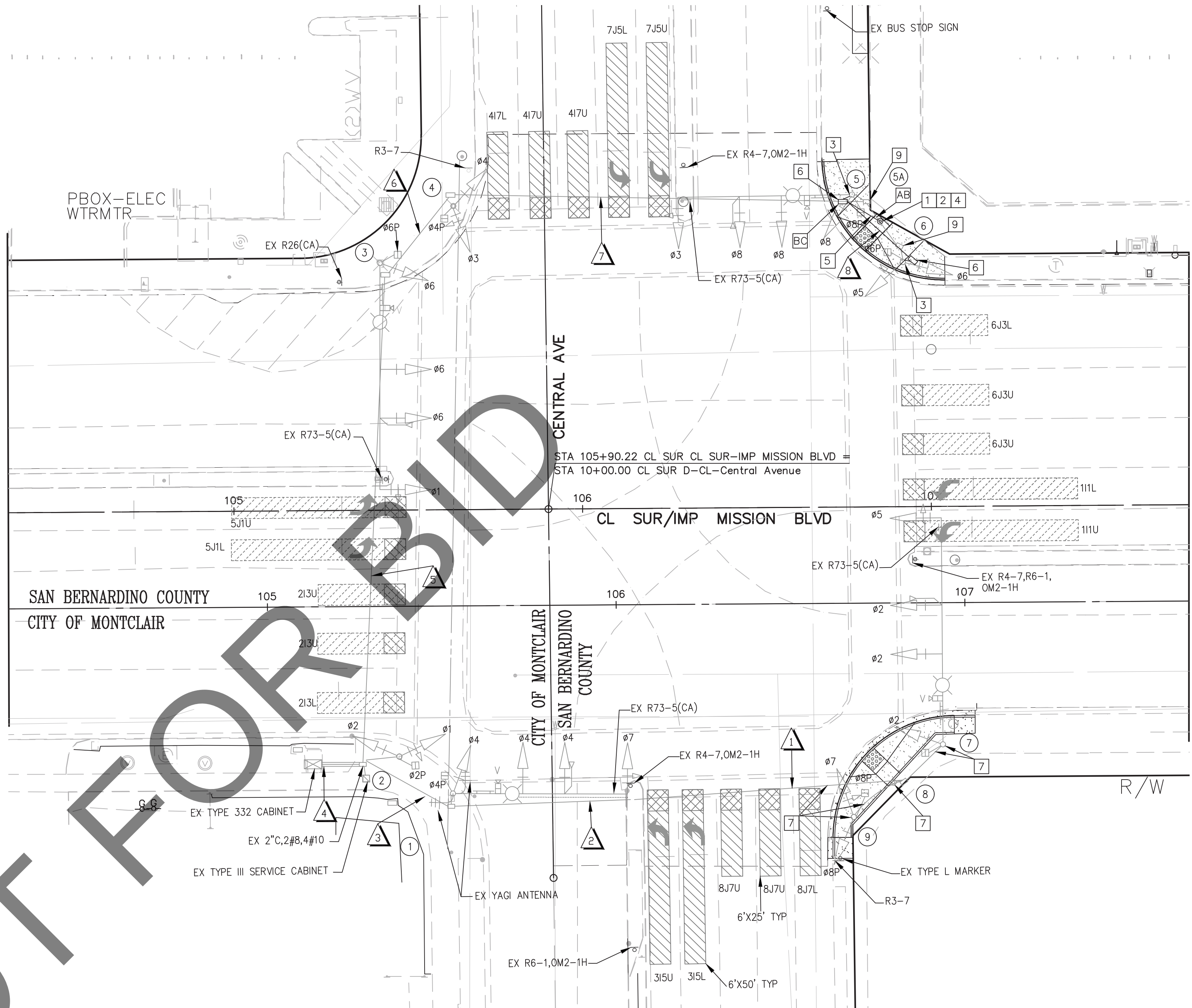
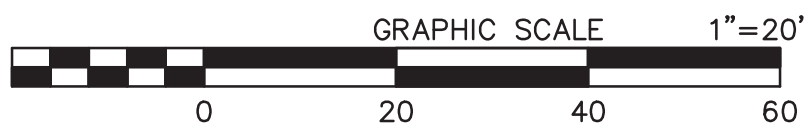
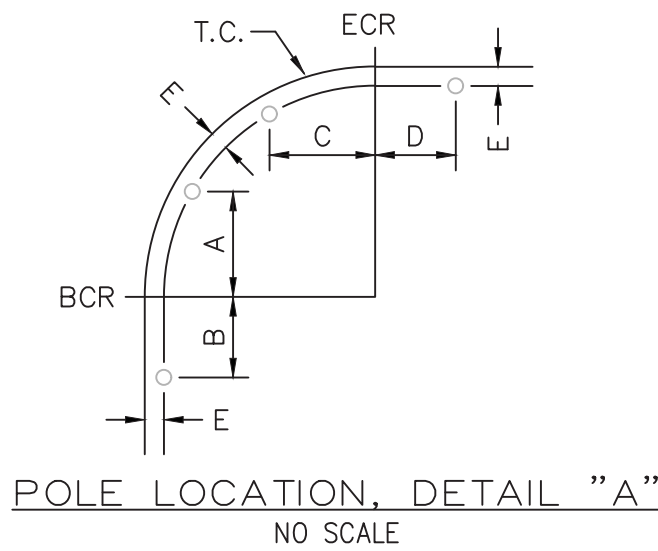
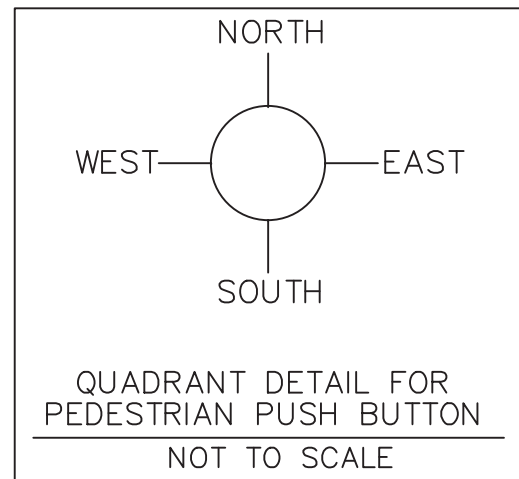
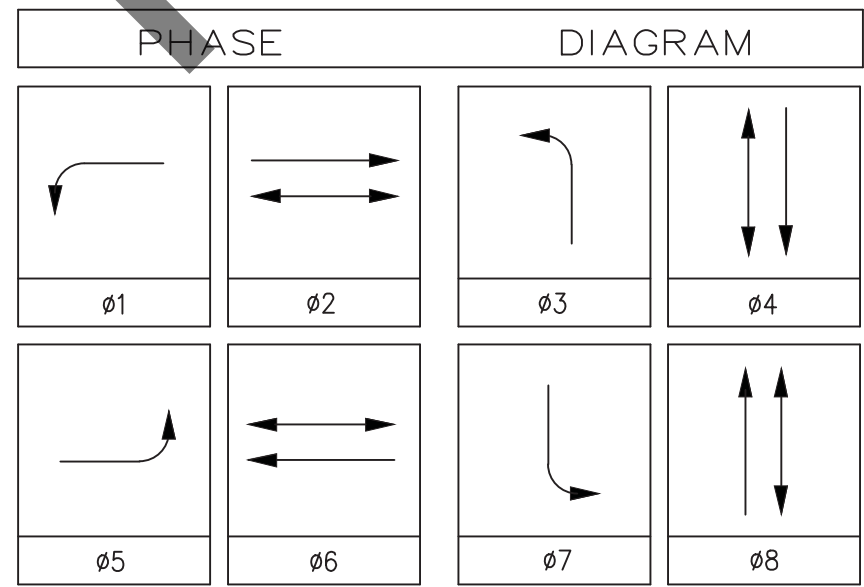
NOTES:
ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED AS (N) NEW OR (R) RELOCATED.

CONDUCTOR										SCHEDULE										
AWG SIZE, WIRE OR CABLE TYPE	STD	PHASES	RUNS								TOTAL CABLES	#8	#10	3-#16	*	**	3M OPTICOM 138	PERCENT	FILL	CONDUIT SIZES
			1	2	3	4	5	6	7	8										
12 WIRE CONDUCTOR CABLE 11-#14 1-#12	①	Ø4, Ø7, Ø4P	-	-	1/-	1/-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	②	Ø1, Ø2, Ø2P	-	-	-	1/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	③	Ø6, Ø1, Ø6P	-	-	-	1/-	1/-	-	-	-	-	-	-	-	-	-	-	-	-	-
	④	Ø3, Ø4, Ø4P	-	-	-	1/2	1/2	1/2	-	-	-	-	-	-	-	-	-	-	-	-
	⑤	Ø3, Ø8, Ø8P	-	-	-	1(N)/-	1(N)/-	1(N)/-	1(N)/-	-	-	-	-	-	-	-	-	-	-	-
	5A	-	-	-	-	-	-/2(N)	-/2(N)	-/2(N)	-/2(N)	-	-	-	-	-	-	-	-	-	-
	⑥	Ø5, Ø6, Ø6P	-	-	-	1(N)/-	1(N)/-	1(N)/-	1(N)/-	1(N)/-	-	-	-	-	-	-	-	-	-	-
	⑦	Ø2, Ø5, Ø2P	1/-	1/-	1/-	1/-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	⑧	-	-/2	-/2	-/2	-/2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 WIRE CONDUCTOR CABLE (3-#14, PPB)	⑨	Ø7, Ø8, Ø8P	1/-	1/-	1/-	1/-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL CABLES		2/2	2/2	3/2	6,2(N)/ 6,2(2N)	2,2(N)/ 2,2(N)	1,2(N)/ 2,2(N)	2(N)/ 2(N)	1(N)/ -	-	-	-	-	-	-	-	-	-	-
	#8	SERVICE	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	#10	LUMINAIRE	2	2	2	-	2	2	2(N)	-	-	-	-	-	-	-	-	-	-	-
	3-#16	VIDEO POWER CABLE	1	1	2	3,1(N)	1,1(N)	1(N)	1(N)	-	-	-	-	-	-	-	-	-	-	-
	*	VIDEO CABLE	1	1	2	3,1(N)	1,1(N)	1(N)	1(N)	-	-	-	-	-	-	-	-	-	-	-
	**	RADIO INTERCONNECT	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3M OPTICOM 138	EVP CABLE	1	1	2	3,1(N)	1,1(N)	1(N)	1(N)	-	-	-	-	-	-	-	-	-	-	-
	PERCENT FILL		18%	10%	16%	18%	20%	15%	10%	5%	-	-	-	-	-	-	-	-	-	-
CONDUIT SIZES			3"	4"	4"	1-2" 2-4"	4"	4"	4"	4"(N)	-	-	-	-	-	-	-	-	-	-

ALL CONDUITS AND CONDUCTORS ARE EXISTING UNLESS OTHERWISE INDICATED AS (N) NEW. ALL EXISTING CONDUCTORS NOT REUSED SHALL BE REMOVED.
NOTE: THE CONDUCTOR SCHEDULE IS PROVIDED AS A GUIDELINE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE NECESSARY CONDUCTORS FOR THE INTENDED OPERATION.
* BELDEN 8281 COAXIAL CABLE
** SOLID CORE LMR 400 COAXIAL CABLE

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ASSEMBLY POST (5ft-7inch) OR AS NEEDED TO ACCOMMODATE THE PROPER 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 AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-7A.
- FURNISH AND INSTALL TYPE B PEDESTRIAN PUSH BUTTON ASSEMBLY WITH R10-3 SIGN (9inchx12inch) INCLUDING BRACKETS OR HARDWARE FOR 90 DEGREE INSTALLATION OF PUSH BUTTON ASSEMBLIES ON SINGLE POST AND PER THE CALTRANS 2018 STANDARD PLANS RSP 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. ANY REMAINING HOLES SHALL BE CAPPED. REMOVE EXISTING 3 CSC FROM CONDUIT FOR ADDITIONAL CAPACITY.
- 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 NEW OR EXISTING PULL BOX AS SHOWN ON PLAN.
- FURNISH AND INSTALL NEW #6 TRAFFIC SIGNAL PULL BOX IN EXISTING CONDUIT RUN AS SHOWN ON PLAN AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8A.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING TRAFFIC SIGNAL PULL BOXES, EXISTING TRAFFIC SIGNAL CONDUITS, EXISTING TRAFFIC SIGNAL LOOPS, EXISTING TRAFFIC SIGNAL POLES AND EXISTING CONTROLLER AND SERVICE CABINETS TO PROTECT IN PLACE OR REPLACE IF DAMAGED AS DIRECTED BY THE ENGINEER.
- REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON POST AND FOUNDATION.
- REMOVE AND SALVAGE EXISTING PULL BOX
- AB- ABANDON, IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
- BC- INSTALL PULL BOX IN EXISTING CONDUIT RUN



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) AND STANDARD PLANS DATED 2018, INCLUDING LATEST REVISIONS.
- 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 RSP 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.
- 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.

SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS				MISSION BOULEVARD AT CENTRAL AVENUE TRAFFIC SIGNAL MODIFICATION PLAN MONTCLAIR AREA				
DESIGNED BY: JC	DRAWN BY: ES	CHECKED BY: XXX	RECOMMENDED BY: JEREMY JOHNSON, P.E. ENGINEERING MANAGER, TRAFFIC DIVISION 03/16/2023	J.L. REF. J.L.11758	W.O. NO. H15034	PLAN SCALE 1"=20'	SHT. NO. 14	TOT. SH'TS 15
APPROVED BY: LEI U, P.E. SUPERVISING ENGINEER, TRAFFIC DIVISION 3/15/2023				APPROVED BY: GRANT MANN, M.S. P.E. DEPUTY DIRECTOR 3/15/23				
MARK				MARK				
CHANGES				CHANGES				
NO CHANGES				NO CHANGES				
RESIDENT ENGINEER				RESIDENT ENGINEER				
DATE				DATE				
FIELD CHANGES				FIELD CHANGES				



FILE NOS54875-010/030

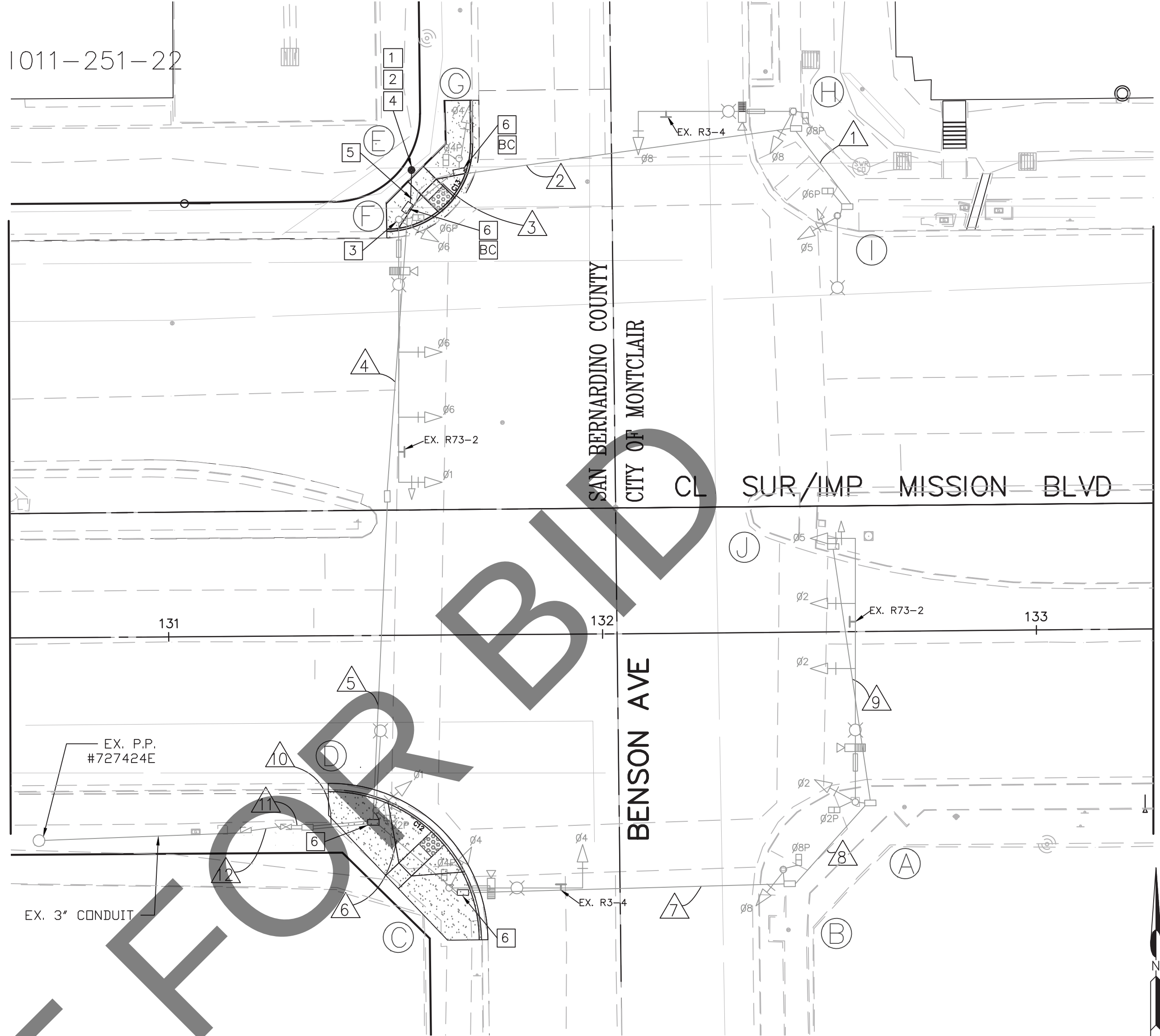
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TRAFFIC SIGNAL GENERAL NOTES:

- 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) AND STANDARD PLANS DATED 2018, INCLUDING LATEST REVISIONS.
- 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 RSP 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- 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.
- 10- 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.

TRAFFIC SIGNAL CONSTRUCTION NOTES:

- 1- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ASSEMBLY POST (5ft-7inch) OR AS NEEDED TO ACCOMMODATE THE PROPER 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 AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-7A.
 - 2- FURNISH AND INSTALL TYPE B PEDESTRIAN PUSH BUTTON ASSEMBLY WITH R10-3 SIGN (9inchx12inch) INCLUDING BRACKETS OR HARDWARE FOR 90 DEGREE INSTALLATION OF PUSH BUTTON ASSEMBLIES ON SINGLE POST AND PER THE CALTRANS 2018 STANDARD PLANS RSP 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. ANY REMAINING HOLES SHALL BE CAPPED. REMOVE EXISTING 3 CSC FROM CONDUIT FOR ADDITIONAL CAPACITY.
 - 4- FURNISH AND INSTALL 3-CONDUCTOR SIGNAL CABLE (3CSC) FROM EACH PEDESTRIAN PUSH BUTTON TO THE CONTROLLER ASSEMBLY.
 - 5- FURNISH AND INSTALL 2inch SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT FROM PEDESTRIAN PUSH BUTTON POST INTO NEW OR EXISTING PULL BOX AS SHOWN ON PLAN.
 - 6- FURNISH AND INSTALL NEW #6 TRAFFIC SIGNAL PULL BOX IN EXISTING CONDUIT RUN AS SHOWN ON PLAN AND PER THE CALTRANS 2018 STANDARD PLAN RSP ES-8A.
 - 7- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING TRAFFIC SIGNAL PULL BOXES, EXISTING TRAFFIC SIGNAL CONDUITS, EXISTING TRAFFIC SIGNAL LOOPS, EXISTING TRAFFIC SIGNAL POLES AND EXISTING CONTROLLER AND SERVICE CABINETS TO PROTECT IN PLACE OR REPLACE IF DAMAGED AS DIRECTED BY THE ENGINEER.
- BC - INSTALL PULL BOX IN EXISTING CONDUIT RUN.



VIDEO DETECTION INFORMATION

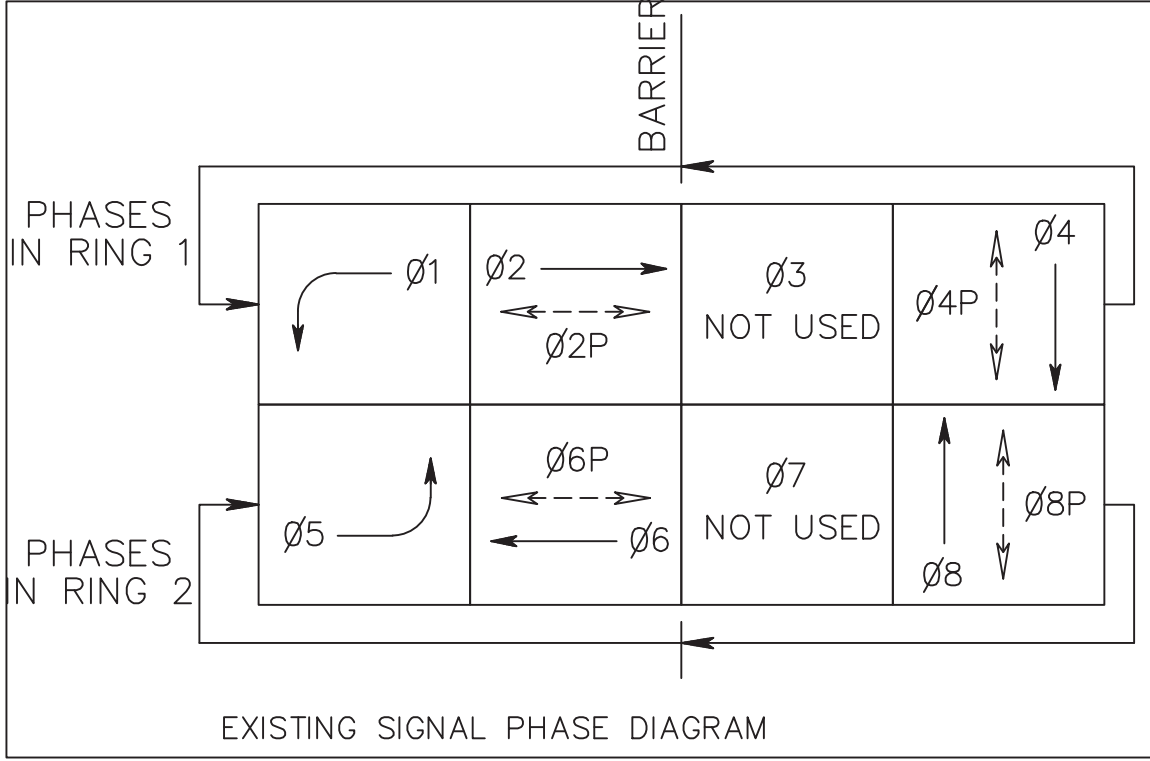
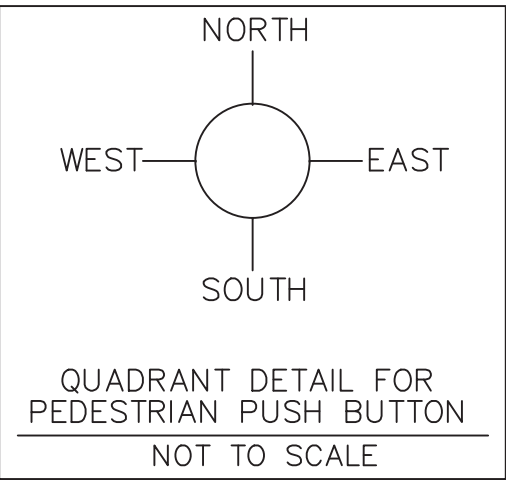
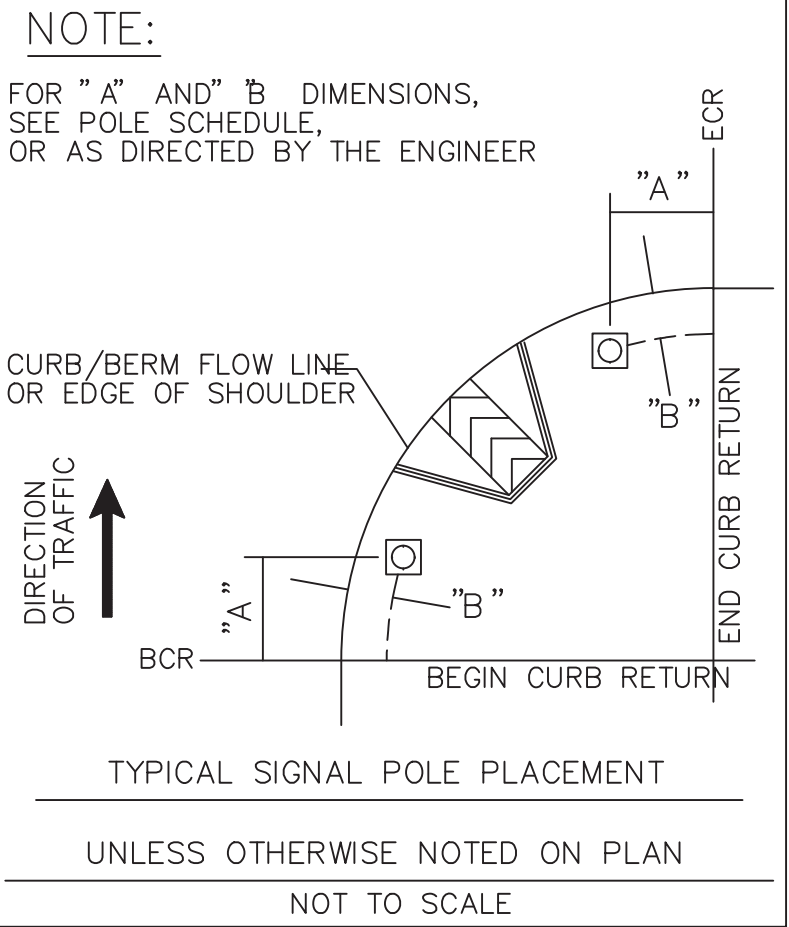
PHASE	ADVANCE	CROSSWALK
Ø2 AND Ø6	230' TO XW	50' TO XW
Ø4 AND Ø8	100' TO XW	50' TO XW
Ø1 AND Ø5	-----	50' TO XW

XW = CROSSWALK

CONDUCTOR SCHEDULE

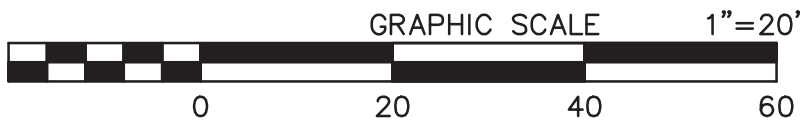
CABLE/ A.W.G.	CIRCUIT	RUNS											
		1	2	3	4	5	6	7	8	9	10	11	12
12 CONDUCTOR-3 CONDUCTOR	POLE (A)											1-1	1-1
	POLE (B)											1-1	1-1
	POLE (C)											1-1	1-1
	POLE (D)											1-1	1-1
	POLE (E)				0-1(N)	0-1(N)						0-1(N)	0-1(N)
	POLE (F)				1-0	1-0						1-0	1-0
	POLE (G)				1-1	1-1	1-1					1-1	1-1
	POLE (H)				1-1	1-1	1-1	1-1				1-1	1-1
	POLE (I)				1-1	1-1	1-1	1-1				1-1	1-1
	POLE (J)								0-1	0-1	0-1	0-1	0-1
	TOTAL	1-1	2-2	3-3	4-3,1(N)	4-3,1(N)	3-4	2-3	1-2	0-14	8,1(N)	4-8,1(N)	
#10	LUMINARIES	2	2	2	2	2	2	2	2		4		4
#6	SERVICE	-	-	-	-	-	-	-	-	-	-	2	2
#8	BARE GROUNDING CONDUCTOR	1	1	1	1	1	1	1	1	1	1	1	1

* VIDEO COAXIAL CABLE	-	1	1	2	2	2	1	1	-	4	4	-
* VIDEO POWER CABLE	-	1	1	2	2	2	1	1	-	4	4	-
CONDUIT SIZE	3"	3"	3"	4"	4"	4"	3"	3"	3"	2-4"	2-3"	3"
* VIDEO CABLE SHALL BE BELDEN 8281 AND THREE CONDUCTORS TWISTED POWER CABLE SHALL BE 14 GAUGE OR LARGER PER SPECIAL PROVISIONS												
NOTE: ALL CONDUCTORS ARE EXISTING UNLESS OTHERWISE NOTED (N)=NEW												



POLE AND EQUIPMENT SCHEDULE													
POLE NO.	STANDARD			POLE LOCATION		VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL		PED PUSH BUTTON		HPSV LUMINAIRE	REFLECTIVE STREET NAME SIGN
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	A	B	MAST ARM	POLE	Ø	MOUNTING	Ø	ARROW		
(A)	61-5-129	60'	15'	(E)	(E)	2-MAS	SV-1-T	Ø2	SP-1-T	Ø8		250 WATT	Benson Ave
(B)	1-A	--	--	(E)	(E)	--	TV-1-T	Ø8	SP-1-T	Ø2		----	----
(C)	19-2-80	30'	15'	(E)	(E)	MAS	SV-1-T	Ø4	SP-1-T	Ø2		250 WATT	Mission Blvd
(D)	TYPE 15	--	15'	(E)	(E)	---	TV-1-1	Ø2	SP-1-T	Ø4		250 WATT	----
(E)	(N) PPBP	--	--	5.8'	11.7'	---	---	--	----	Ø4		----	----
(F)	61-5-129	60'	15'	(E)	(E)	2-MAS	SV-1-T	Ø6	SP-1-T	Ø4		250 WATT	Benson Ave
(G)	1-A	--	--	(E)	(E)	---	TV-1-T	Ø4	SP-1-T	Ø6		----	----
(H)	24-3-80	35'	15'	(E)	(E)	MAS	SV-1-T	Ø8	SP-1-T	Ø6		250 WATT	Mission Blvd
(I)	TYPE 15	--	15'	(E)	(E)	---	TV-1-T	Ø6	SP-1-T	Ø8		250 WATT	----
(J)	PPBP	--	--	(E)	(E)	---	---	--	----	Ø8	----	----	----

NOTE: ALL POLES ARE EXISTING UNLESS OTHERWISE NOTED (N)=NEW



MARK	CHANGES	RESIDENT ENGINEER	DATE
	NO CHANGES		
FIELD CHANGES			



SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED BY:
JC	ES	XXX	
APPROVED BY:			
GRANT MANN, M.S. P.E. DEPUTY DIRECTOR			
3/15/2023			

MISSION BOULEVARD AT BENSON AVENUE TRAFFIC SIGNAL MODIFICATION PLAN MONTCLAIR AREA				
J.L. REF.	W.O. NO.	PLAN SCALE	SHT. NO.	TOT. SHTS
J.L.11758	H15034	1"=20'	15	15

REVISIONS	MARK	DATE

REVISIONS	MARK	DATE

FILE NO.554875-010/030

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