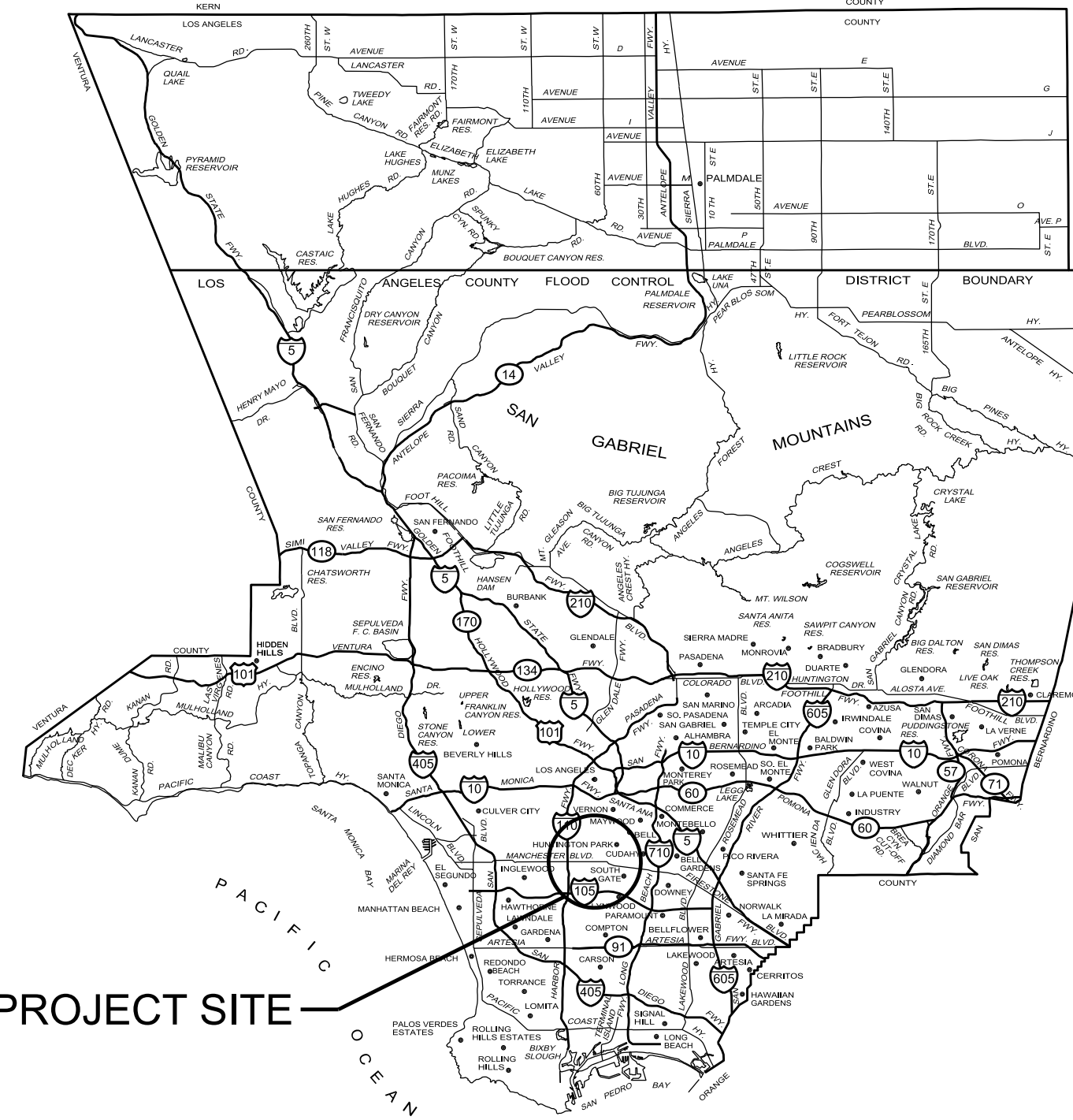


LOS ANGELES COUNTY PUBLIC WORKS FIRESTONE METRO BLUE LINE STATION INTERSECTION AND BIKEWAY IMPROVEMENTS PROJECT

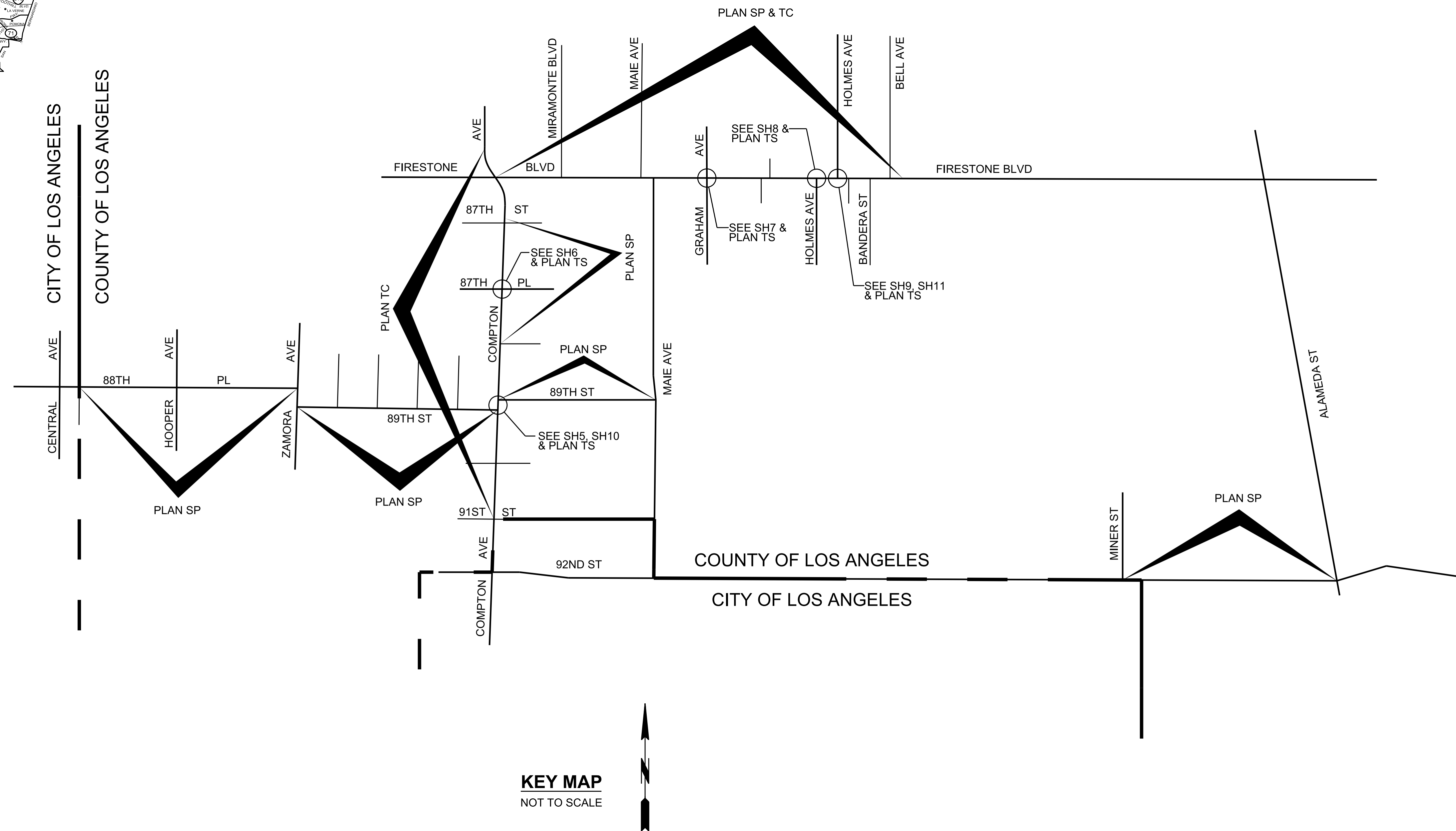
INDEX TO PROJECT PLANS

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3	TYPICAL SECTIONS AND DETAILS
4	DETAILS
5	PLAN 89TH ST AND COMPTON AVE
6	PLAN 87TH PL AND COMPTON AVE
7	PLAN GRAHAM AVE AND FIRESTONE BLVD
8	PLAN HOLMES AVE AND FIRESTONE BLVD
9	PLAN HOLMES AVE AND FIRESTONE BLVD
10	DRAINAGE PLAN AND PROFILE 89TH ST AND COMPTON AVE
11	DRAINAGE PLAN AND PROFILE HOLMES AVE AND FIRESTONE BLVD
PLAN SP	SIGNING AND STRIPING PLAN
PLAN TS	TRAFFIC SIGNAL PLAN
PLAN TC	TRAFFIC CONTROL PLAN



T.G. 704: F3, G2
R.D. 241

LOCATION MAP
NOT TO SCALE



KEY MAP
NOT TO SCALE

PRIME CONTRACTOR LICENSE REQUIRED: CLASS A

CADD PROJECT FILE NAME
RDC0016247.DGN

CHECKER
M. TERRELL

DESIGNER
A. NGUYEN

DRAFTER
K. KHOV

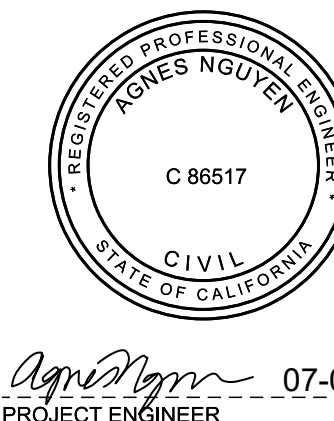


APPROVED BY: *Mark Pestrella*
MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS
DEPUTY DIRECTOR
DATE: 07/02/2019

RECOMMENDED BY: *Robert Borden*
ROBERT BORDEN, ASSISTANT DEPUTY DIRECTOR
DATE: 07/02/2019

SUBMITTED BY: *Mark Allen*
DATE: 07-01-19

DESIGN TEAM II



LOS ANGELES COUNTY PUBLIC WORKS

**FIRESTONE METRO BLUE LINE
STATION INTERSECTION AND BIKEWAY
IMPROVEMENTS PROJECT**

PROJECT ID NO. RDC0016247
TITLE SHEET

DATE	MARK	DESCRIPTION

PROJECT ENGINEER: *James Nguyen* DATE: 07-01-19
DWG: PH086771 SHEET 1 OF 11

PROJECT ID RDC0016247
FIRESTONE METRO BLUE LINE
STATION INTERSECTION AND
BIKEWAY IMPROVEMENTS
PROJECT
BID PACKAGE

CONSTRUCTION LEGEND

- ① PORTLAND CEMENT CONCRETE CURB AND GUTTER TYPE A2-8 (OVER 6" CMB) UNLESS OTHERWISE SHOWN
- ② PORTLAND CEMENT CONCRETE CURB TYPE A1-VAR (OVER 6" CMB) UNLESS OTHERWISE SHOWN
- ⑤ PORTLAND CEMENT CONCRETE SIDEWALK, 4" THICK (OVER 6" CMB)
- ⑧ ASPHALT CONCRETE PAVEMENT
- ⑨ ASPHALT CONCRETE PAVEMENT ON BASE MATERIAL
- ⑭ DRIVEWAY, TYPE B, Y=6'11" UNLESS OTHERWISE SHOWN
- ⑮ ALLEY INTERSECTION
- ⑳ PCC CURB RAMP PER CALTRANS STD PLAN A88A (OVER 6" CMB) TYPE AS SHOWN
- ㉑ PCC BUS PAD
- ㉔ FURNISH AND PLANT TREE (PER CONSTRUCTION NOTE 5)
- ㉘ RECONSTRUCT MANHOLE
- ㉙ TREE WELL COVERS, TYPE 1, CASE 2 (MOD)
- ㉚ RECONSTRUCT CURB DRAIN PER STD PLAN 150, N=1
- ㉜ TRENCH BACKFILL SLURRY: 270-E-500
- ㉞ GALVANIZED STEEL PLATE, 1/4" THICK, WITH DIAMOND SURFACE PATTERN (LENGTH AS SHOWN ON PLAN)
- ⑬ COLD MILL ASPHALT CONCRETE PAVEMENT

CONSTRUCTION SYMBOLS

- (NO) INDICATES WORK PER CONSTRUCTION LEGEND
- (It.) CURVE DATA SHOWN IN TABLE ON PLAN
- ^{2" P4} ABOVE LINE: INDICATES THE TYPE OF STANDARD OR THICKNESS OF SURFACE MATERIAL IN INCHES, STANDARD PLAN VARIABLES; CURB RAMP CASE, TYPE, SECTION AND DETAIL; OR TREE PLANTING CASE
- ^{5" CMB} BELOW LINE: REFERENCE TO DETAIL OR THICKNESS OR BASE MATERIAL IN INCHES OR TREE WELL CASE
- ^{A x B}/_{4" CMB} ABOVE LINE: A = LENGTH PARALLEL TO CURB B = LENGTH PERDICULAR TO CURB
- △^A/₃ ABOVE LINE: NAME OF SECTION OR DETAIL BELOW LINE: SHEET NUMBER OF THE REFERENCED SECTION OR DETAIL IF THE SECTION OR DETAIL IS NOT ON THE SAME PAGE
- RU UTILITY TO BE RELOCATED BY OWNER

CONSTRUCTION NOTES

1. STANDARD PLANS REFERENCED ARE PER THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC) UNLESS OTHERWISE NOTED
2. REPLACE AND RELOCATE TRAFFIC SIGNAL AND STREET LIGHTING PULL BOXES AFFECTED BY CURB RAMP AND SIDEWALK CONSTRUCTION. PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE FOR NO. 6 PULL BOX.
3. ELEVATIONS SHOWN ARE IN FEET BASED ON WATTS 2005 PROGRAM, NAVD 1988 DATUM.
4. WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL INSTALL A BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER (RPM) ON THE FINISHED SURFACE AT EACH FIRE HYDRANT LOCATION PER CALIFORNIA 2012 MUTCD PART 3 - FIGURE 3B-102 (CA), AS DESCRIBED IN THE SPECIAL PROVISIONS.
5. FURNISH AND PLANT RHUS LANCEA - AFRICAN SUMAC TREE, PER STD PLAN 520-4 CASE SIDEWALK TREE WELL, DOUBLE STAKING PER STD PLAN 518-3
6. CONSTRUCT TRANSVERSE EXPANSION (CONTACT) JOINTS IN PCC PAVEMENT PER STANDARD PLAN 134-2 AT BC AND EC OF CURVES AND AT JOINS.
7. PCC PAVEMENT TO JOIN EDGE OF ALL EXISTING PULL BOXES.
8. ALL PIPE IN OPEN TRENCH SHALL BE BEDDED ACCORDING TO LACDPW STANDARD PLAN NO. 3080-3, CASE III, EXCEPT BELL AND SPIGOT PIPE WHICH SHALL BE CASE II BEDDING. UNLESS OTHERWISE SHOWN, "W" VALUES SHALL BE AS SPECIFIED ON STANDARD PLAN NO. 3080-3 FOR CASE III BEDDING, NOTES (a) AND (b). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED, AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED, THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE AGENCY.
9. CONCRETE BACKFILL SHALL BE PROVIDED AROUND PIPE 21 INCHES IN DIAMETER OR LESS WHERE THE COVER IS EQUAL TO OR LESS THAN 2'-0", AROUND PIPE GREATER THAN 21 INCHES IN DIAMETER BUT LESS THAN 39 INCHES WHERE THE COVER IS LESS THAN 1'-3", AND FOR PIPE 39 INCHES OR GREATER WHERE THE COVER IS LESS THAN 1'-0". THE CONCRETE BACKFILL SHALL BE AS SPECIFIED ON LACDPW STANDARD PLAN NO. 3080-3, NOTE 4.
10. STATIONS SHOWN ON THE PLANS ARE ALONG CENTER LINE OF CONDUIT OR ON A LINE NORMAL TO CENTER LINE OF CONDUIT.
11. STATIONS AND INVERT ELEVATIONS OF PIPE INLETS SHOWN ON THE PROFILES ARE AT THE INSIDE FACE OF THE CONDUIT, UNLESS OTHERWISE NOTED.
12. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE PROPERTY OF THE OWNERS LISTED ON SHEET 2, UNLESS OTHERWISE NOTED.
13. MONOLITHIC CATCH BASIN CONNECTIONS SHALL BE CONSTRUCTED, WHERE APPLICABLE, PER SPPWC STANDARD PLAN NO. 308-2.
14. ALL OPENINGS RESULTING FROM CUTTING OR PARTIAL REMOVAL OF EXISTING CULVERTS, PIPES OR SIMILAR STRUCTURES SHALL BE SEALED WITH 6 INCHES OF CONCRETE, UNLESS OTHERWISE SHOWN.
15. CB MANHOLES SHALL BE CAST WITH THE LETTERS "L.A.C.F.C.D.". THE LETTERS SIZE SHALL BE 1" HIGH.
16. CONTRACTOR SHALL CONTACT WILLIAM YAN AT (626) 458- 3961 A MINIMUM OF TWO (2) WEEKS PRIOR TO ANY REQUIRED REMOVAL OR RELOCATION OF ANY BUS FURNITURES TO ARRANGE FOR ITS REMOVAL OR RELOCATION.

ABBREVIATIONS

ABBREVIATION	WORD OR WORDS
AC	ASPHALT CONCRETE
AU	ADJUST UTILITY
AVE	AVENUE
BC	BEGINING OF CURVE
BCR	BEGINING OF CURB RETURN
BLVD	BOULEVARD
BW	BACK OF WALK
C&G	CURB AND GUTTER
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
CB	CATCH BASIN
CF	CURB FACE
CIP	CAST IRON PIPE
CL	CENTER LINE
CMB	CRUSHED MISCELLANEOUS BASE
CY	CUBIC YARD
E	EAST
EC	END OF CURVE
ECR	END OF CURB RETURN
EG	EDGE OF GUTTER
ELEV	ELEVATION
EXST	EXISTING
FL	FLOW LINE
H	HEIGHT
LACDPW	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
LD	LOCAL DEPRESSION
LT	LEFT

STANDARD PLANS

CALTRANS STANDARD PLANS, 2018 EDITION

A88A CURB RAMP DETAILS

SPPWC, 2012 EDITION

- 110-2 DRIVEWAY APPROACHES
- 120-2 CURB AND GUTTER - BARRIER
- 130-2 ALLEY INTERSECTION
- 131-2 CONCRETE BUS PAD
- 134-2 CONCRETE PAVEMENT JOINT DETAILS
- 150-3 CURB DRAIN
- 200-3 PRECAST CONCRETE SEWER MANHOLE
- 300-3 CURB OPENING CATCH BASIN
- 308-2 MONOLITHIC CATCH BASIN CONNECTION
- 313-3 LOCAL DEPRESSIONS AT CATCH BASINS
- 340-2 TRANSITION STRUCTURE PIPE TO PIPE
- 380-4 CONCRETE COLLAR FOR RCB 12" THROUGH 72"
- 381-2 ABANDONMENT SEALS FOR MANHOLES AND INLETS
- 518-3 TREE STAKING
- 519-3 TREE WELL
- 520-4 TREE PLANTING

LACDPW STANDARD PLAN MANUAL 2000 EDITION

- 3080-3 PIPE BEDDING IN TRENCHES
- 6002-1 PORTABLE SECURITY FENCE FOR OPEN TRENCHES

REFERENCES

SURVEY FIELD NOTES: PWFB 0921, PG 4646-4660

PRELIMINARY MATERIALS TEST REPORT
LAB No. 37515, DATED: AUGUST 13, 2018

UTILITIES

- ELECTRICAL: SOUTHERN CALIFORNIA EDISON
- GAS: SOUTHERN CALIFORNIA GAS COMPANY
- OIL: SHELL PIPELINE COMPANY LP
- SEWER: SANITATION DISTRICT OF LOS ANGELES COUNTY
- TELEPHONE: LOS ANGELES COUNTY PUBLIC WORKS AT&T
- WATER: CROWN CASTLE GOLDEN STATE WATER COMPANY

ABBREVIATIONS (CONTINUED)

ABBREVIATION	WORD OR WORDS
MOD	MODIFIED
PCC	PORTLAND CEMENT CONCRETE
PL	PLACE
PRC	POINT OF REVERSE CURVE
PT	POINT
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
RU	RELOCATE UTILITY
R/W	RIGHT OF WAY
S	SOUTH
SH	SHEET
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TC	TOP OF CURB
TS	TRAFFIC SIGNAL
TYP	TYPICAL
V	VERTICAL
W	WIDTH

TOPOGRAPHY LEGEND

	EXISTING TOPOGRAPHY	PROPOSED IMPROVEMENTS
CURB	---	=====
CURB AND GUTTER	-----	=====
GUTTER	-----	=====
PAVEMENT CONCRETE	=====	=====
AC	-----	=====
CURB RAMP	△	△
BUILDING	▭	▭
FENCE	—x—x—x—	—o—o—o—
GUY POLE	⊙	⊙
DRIVEWAY	▭	▭
FIRE HYDRANT	⊙	⊙
GUY WIRE	ε	ε
MANHOLE	⊙	⊙
POLE	○	○
R/W LINE	---	---
PULL BOX	▭	▭
SIDEWALK	▭	▭
SIGNAL CONTROL BOX	▭	▭
SIGNAL FLASHING	⊙	⊙
TRAFFIC	⊙	⊙
STREET LIGHT	⊙	⊙
PALM TREE	✱	✱
OAK TREE	✱	✱
OTHER TREE	⊙	⊙
VALVE	⊙	⊙
VAULT	▭	▭
UTILITIES ABANDONED	---	---
EXISTING	---	---

AC PAVEMENT CLASS AND GRADE LEGEND

- P1 C2 - PG 64-10
- B - PG 64-10
- P2 C2 - PG 64-10

CADD PROJECT FILE NAME: RDC0016247.DGN
 CHECKER: M. TERRELL
 DESIGNER: A. NGUYEN
 DRAFTER: K. KHOV

DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
REVISIONS		



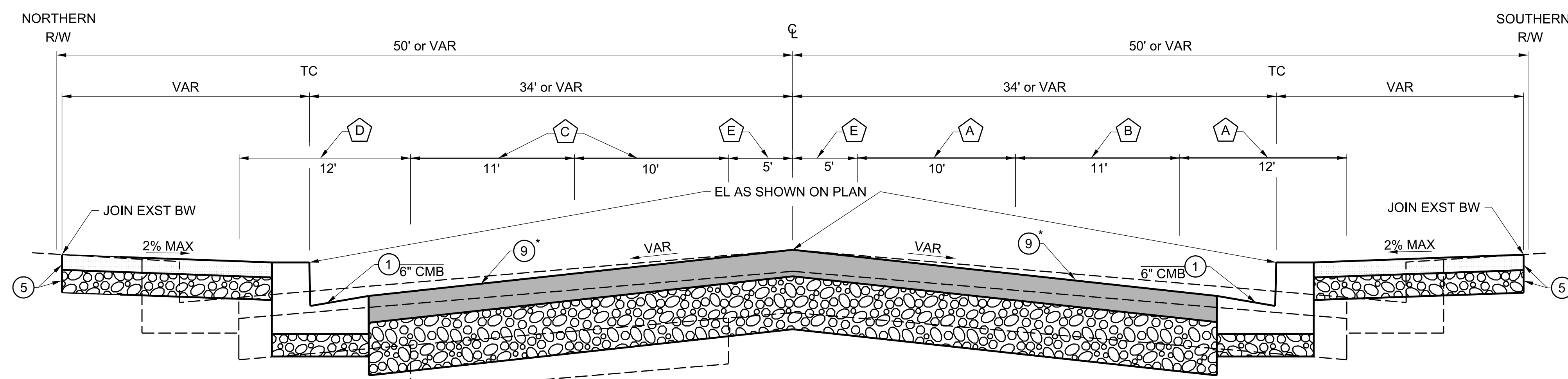
PROJECT ENGINEER: Agnes Nguyen DATE: 07-01-19

LOS ANGELES COUNTY PUBLIC WORKS

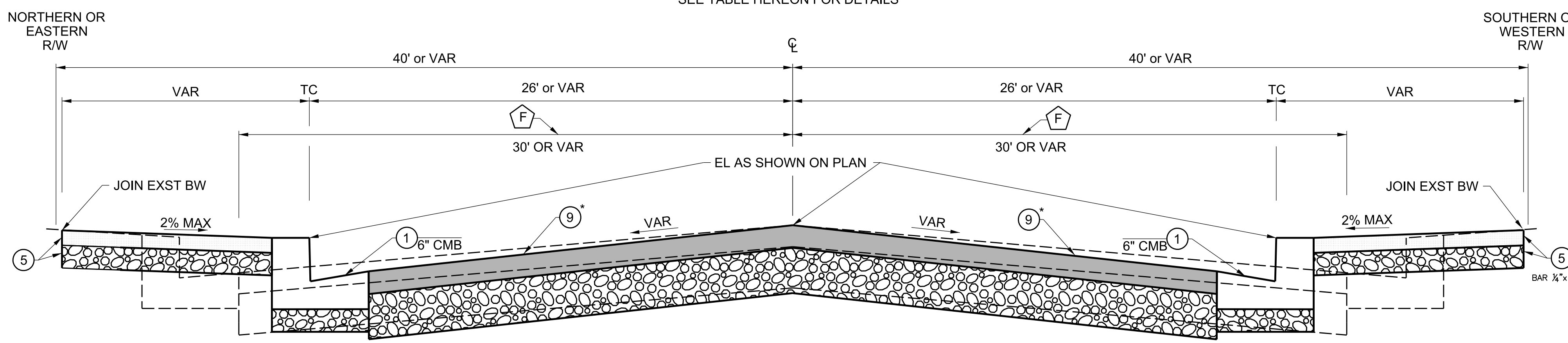
FIRESTONE METRO BLUE LINE STATION INTERSECTION AND BIKEWAY IMPROVEMENTS PROJECT

PROJECT ID NO. RDC0016247
GENERAL NOTES

DWG PH086771 SHEET 2 OF 11

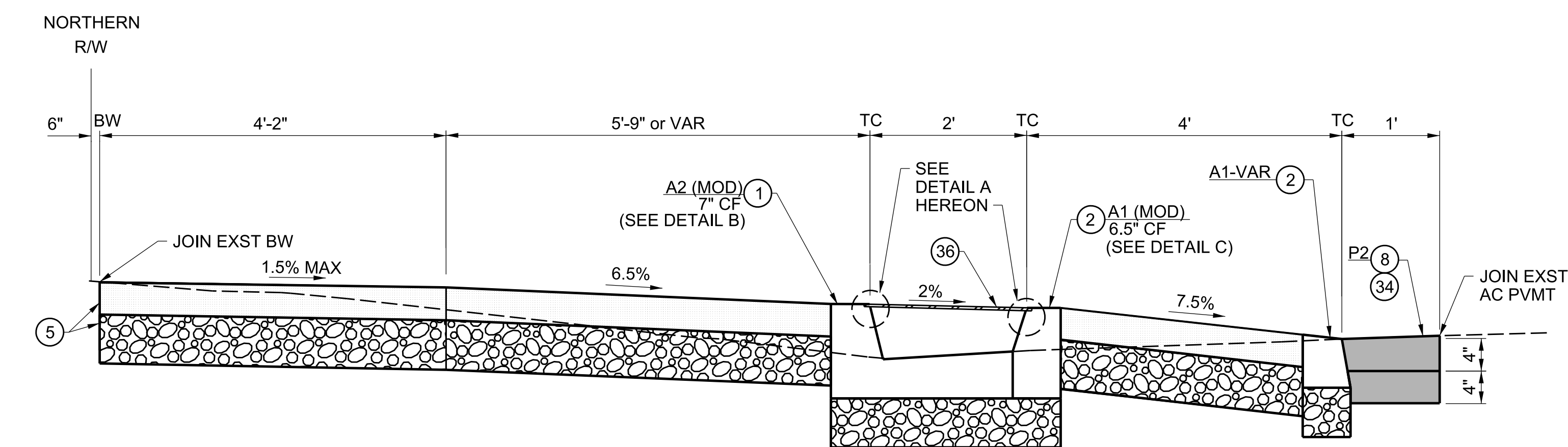


TYPICAL SECTION AT BULB OUT
 NOT TO SCALE
 FIRESTONE BLVD
 * SEE TABLE HEREON FOR DETAILS



TYPICAL SECTION AT BULB OUT
 NOT TO SCALE
 89TH ST, COMPTON AVE,
 AND HOLMES AVE
 * SEE TABLE HEREON FOR DETAILS

	FIRESTONE BLVD & GRAHAM AVE	FIRESTONE BLVD & HOLMES AVE	COMPTON AVE & 87TH PL	COMPTON AVE & 89TH ST
9	6" P1 12" CMB	6" P1 12" CMB	4" P1 10" CMB	4" P1 10" CMB



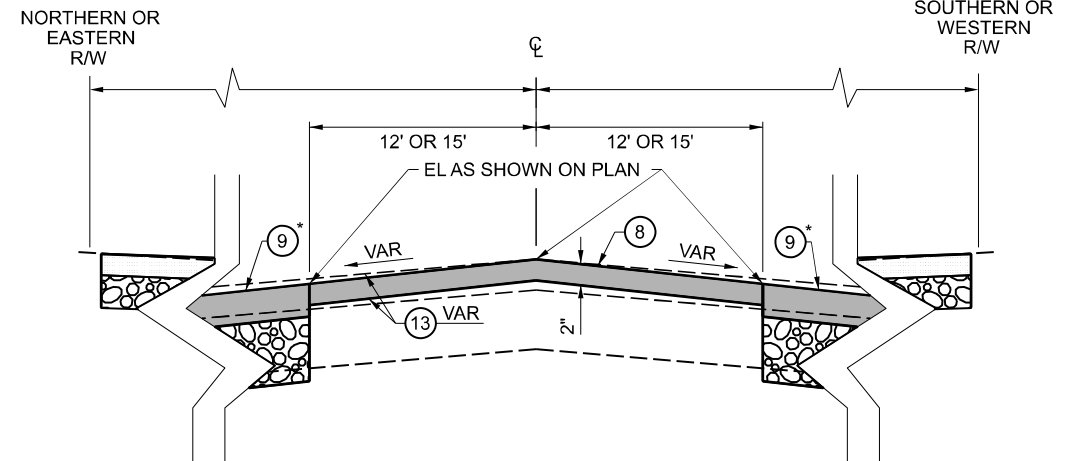
SECTION A-A
CASE A (MOD) - SH 8
 NOT TO SCALE

EXISTING PAVEMENT SECTION

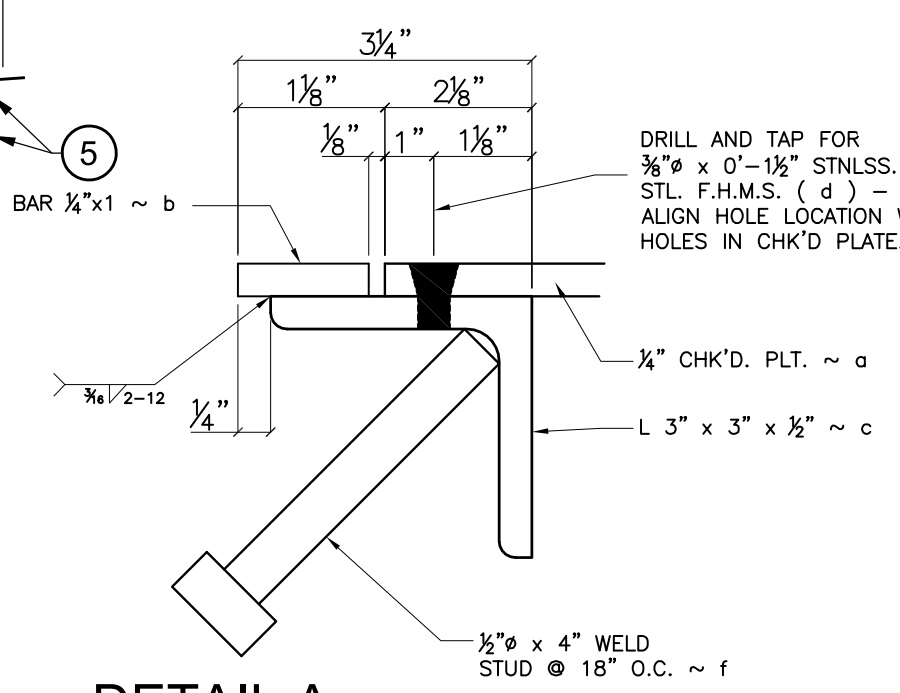
FIRESTONE BLVD	A	EXST 5"-9" AC ON ±6" CONCRETE
	B	EXST 8.5" AC ON 5.5" MAC ON NATIVE SOIL
	C	EXST ±4.5" AC ON 4"-9" MAC ON 8" CAB
	D	EXST 7" AC ON ±5" CONCRETE
	E	EXST 12" AC ON 7" CONCRETE

EXISTING PAVEMENT SECTION

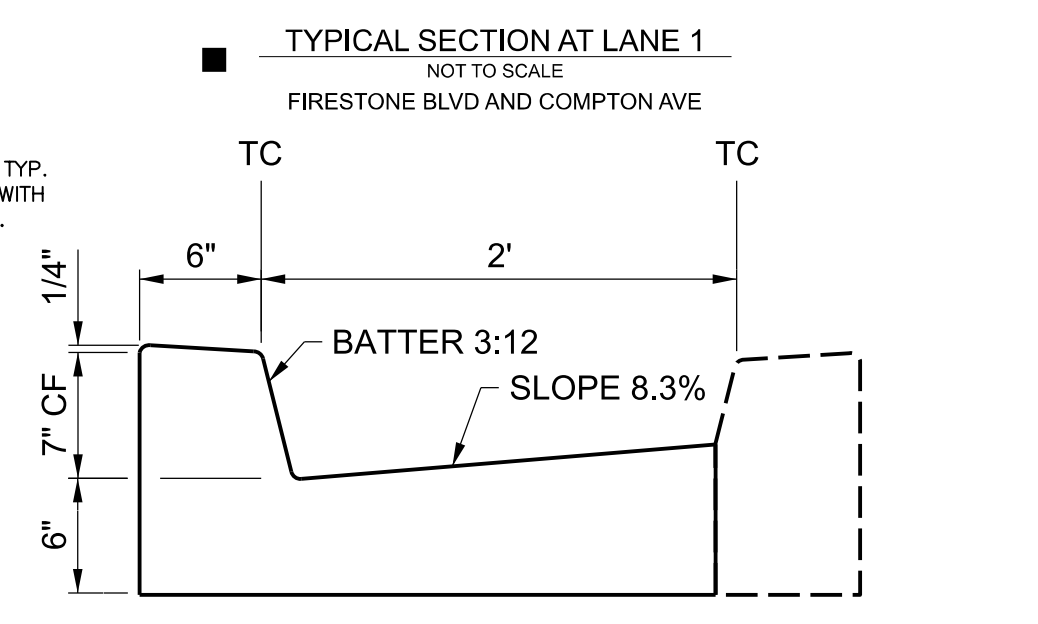
87TH PL	EXST 4" AC ON 8" CMB
89TH ST	EXST 6" AC ON 6" CMB
COMPTON AVE	EXST 5"-7" AC ON ±6" CONCRETE
GRAHAM AVE	EXST 4" AC ON 10" CMB
HOLMES AVE	EXST 3"-4" AC ON 4" CMB



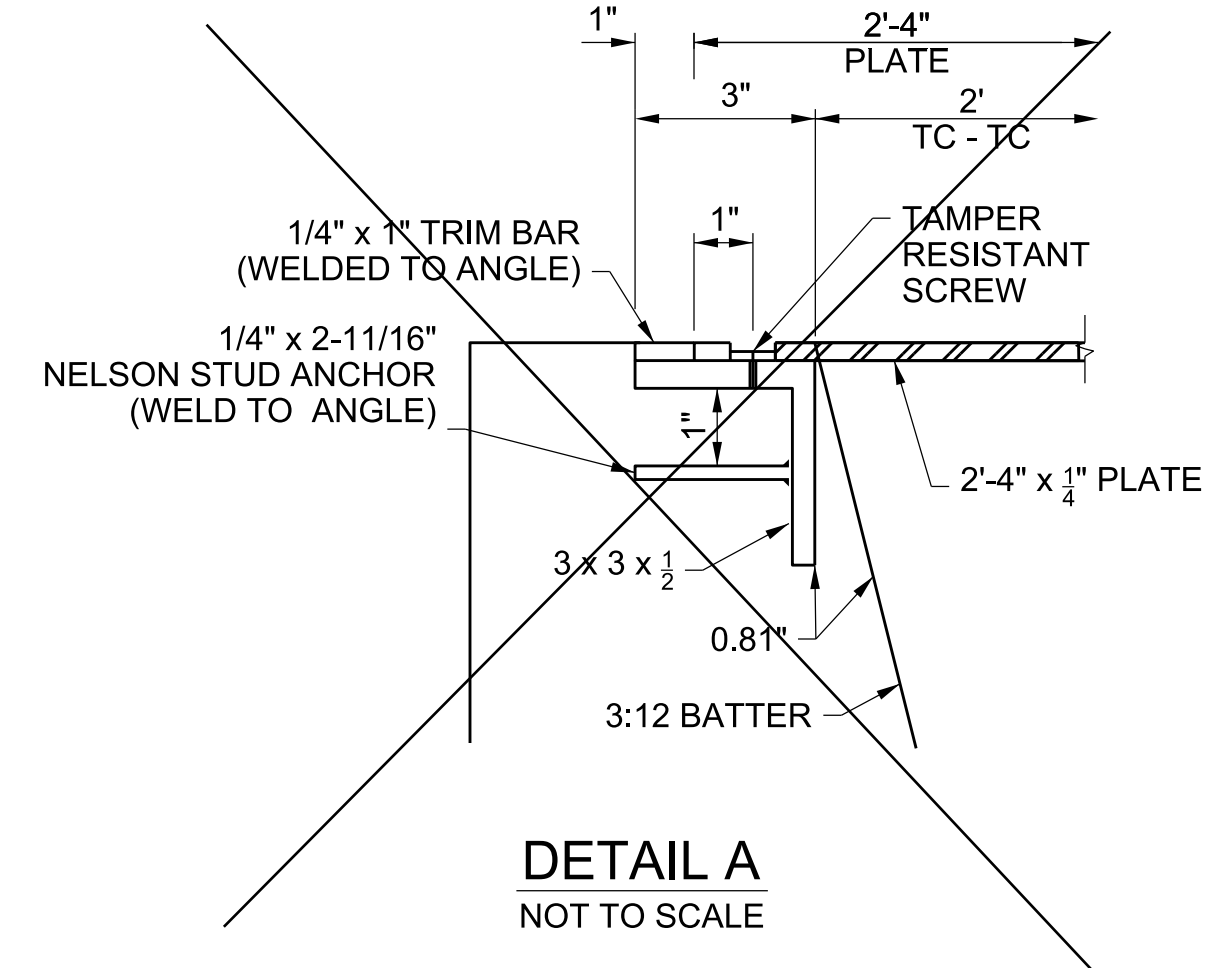
TYPICAL SECTION AT LANE 1
 NOT TO SCALE
 FIRESTONE BLVD AND COMPTON AVE



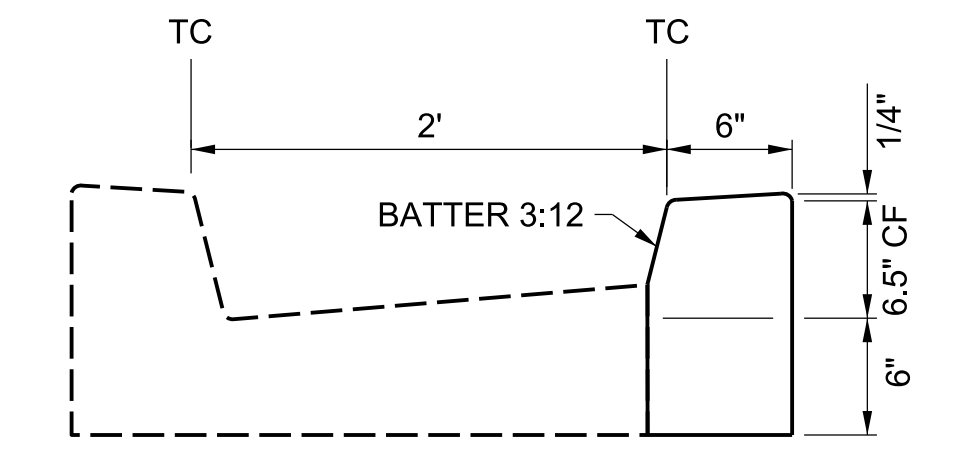
DETAIL A
 NOT TO SCALE



DETAIL B
A2 (MOD) 7" CF
 NOT TO SCALE

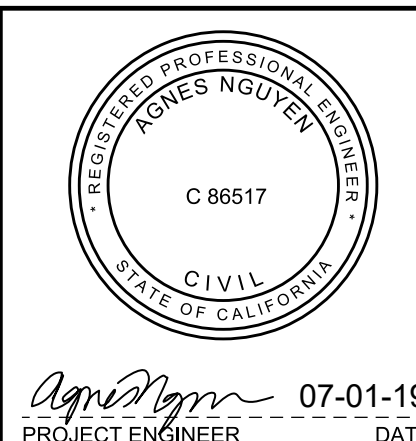


DETAIL A
 NOT TO SCALE



DETAIL C
A1 (MOD) 6.5" CF
 NOT TO SCALE

DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
		REVISIONS



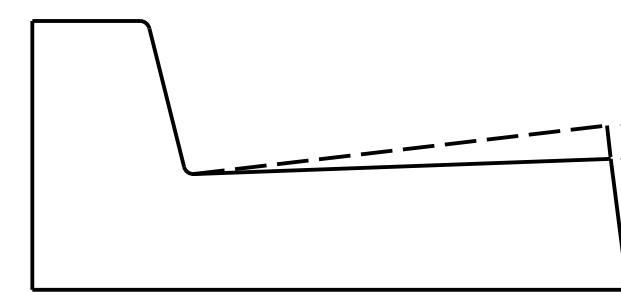
LOS ANGELES COUNTY PUBLIC WORKS

FIRESTONE METRO BLUE LINE STATION INTERSECTION AND BIKEWAY IMPROVEMENTS PROJECT

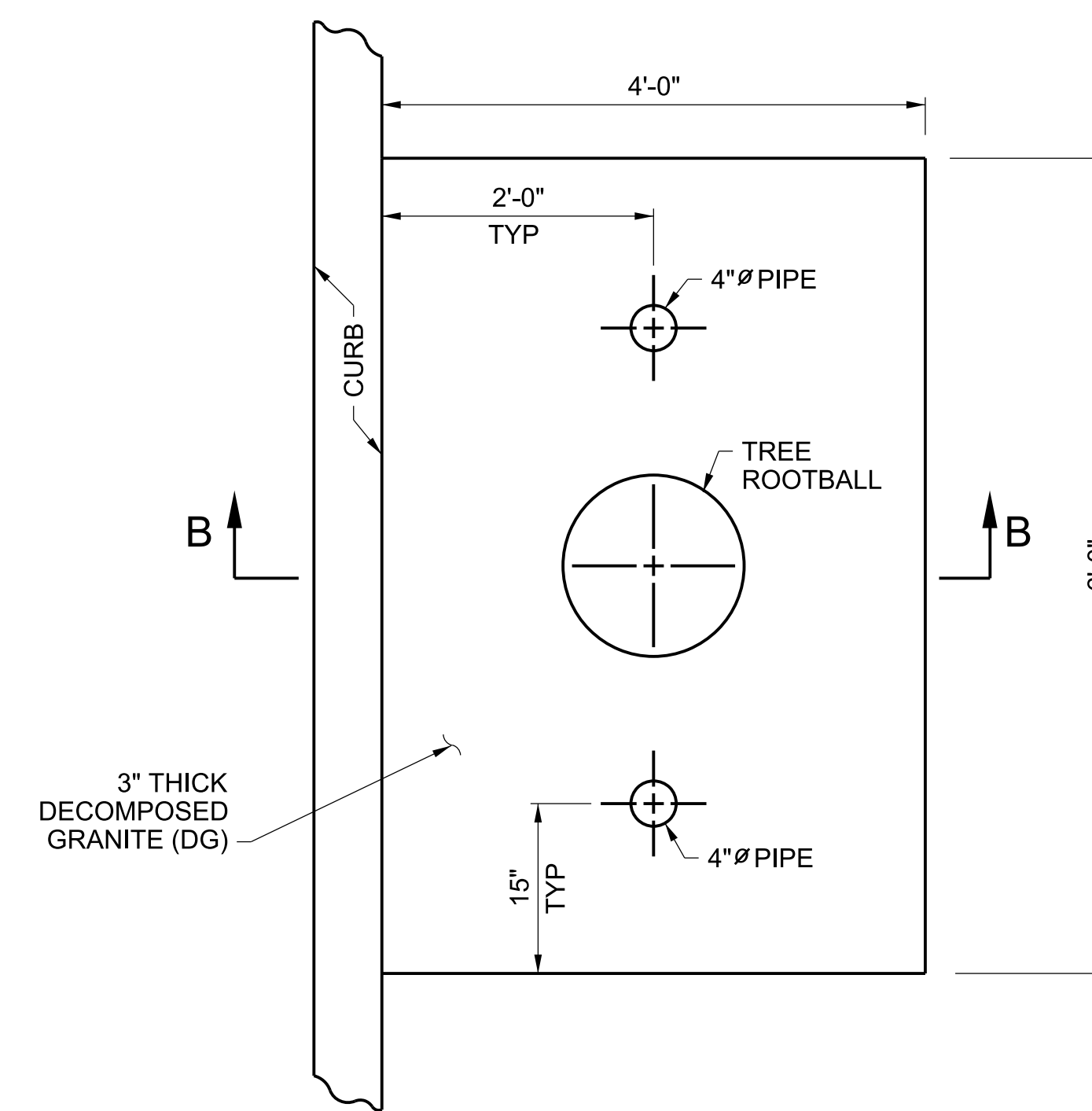
PROJECT ID NO. RDC0016247
 TYPICAL SECTIONS AND DETAILS

DWG PH086771 SHEET 3 OF 11

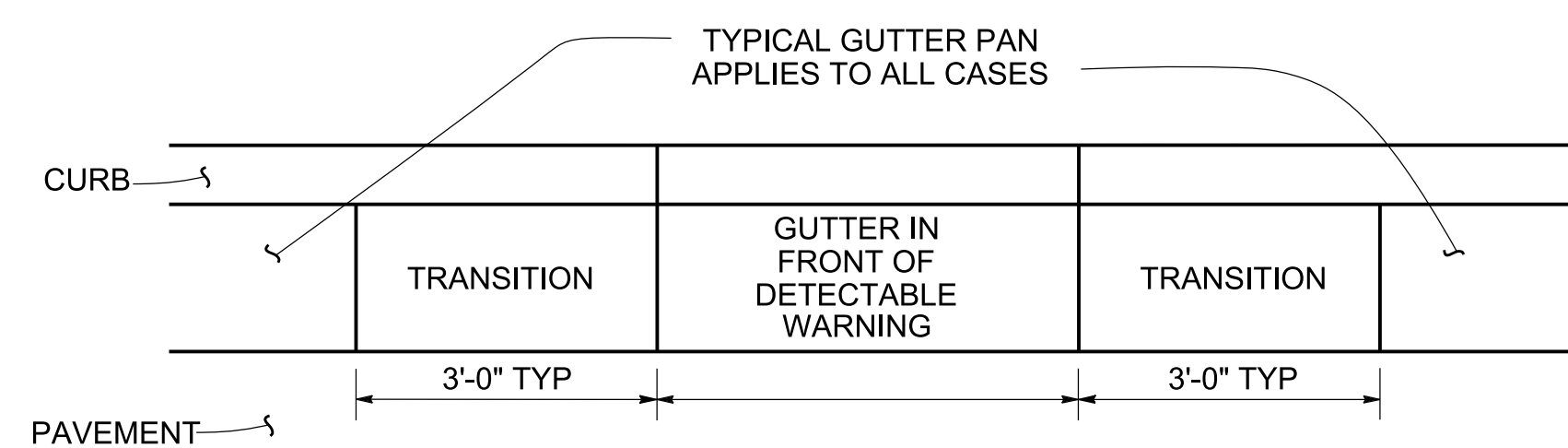
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 CHECKER: M. TERRELL
 DESIGNER: A. NGUYEN
 DRAFTER: K. KHOV



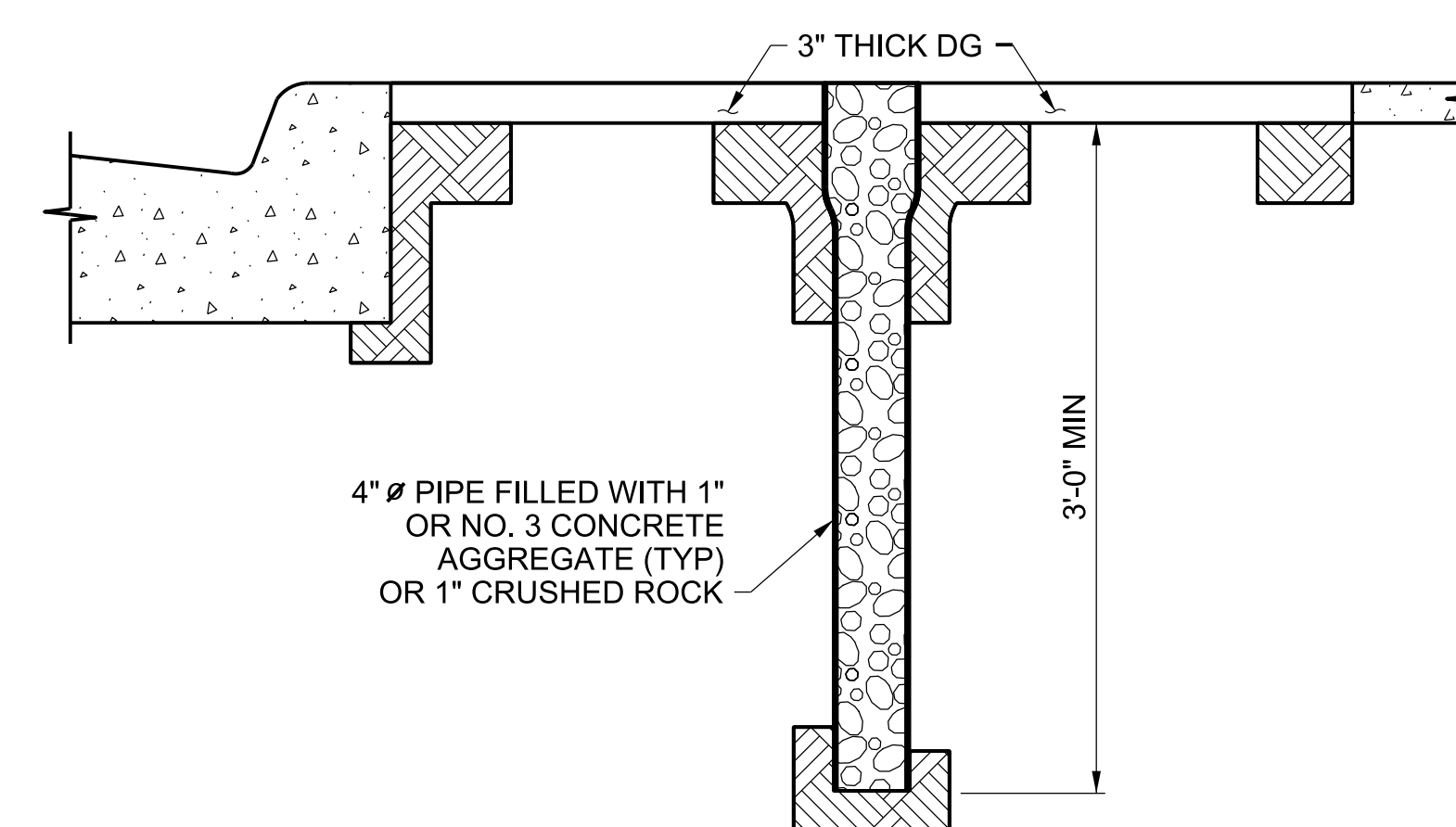
GUTTER IN FRONT OF DETECTABLE WARNING
NOT TO SCALE



**TREE WELL
TYPE 1 - CASE 2 (MOD)**
NOT TO SCALE



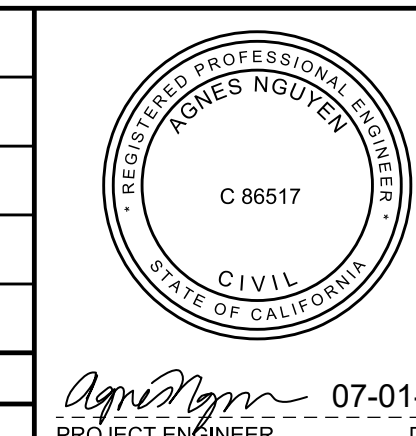
CURB RAMP GUTTER PAN TRANSITION
NOT TO SCALE



**SECTION B-B
TREE WELL
TYPE 1 - CASE 2 (MOD)**
NOT TO SCALE

DRAFTER: K. KHOV
 DESIGNER: A. NGUYEN
 CHECKER: M. TERRELL
 CADD PROJECT FILE NAME: RDC0016247.DGN

DATE	MARK	DESCRIPTION



LOS ANGELES COUNTY PUBLIC WORKS

**FIRESTONE METRO BLUE LINE
STATION INTERSECTION AND BIKEWAY
IMPROVEMENTS PROJECT**

PROJECT ID NO. RDC0016247
DETAILS

DWG PH086771 SHEET 4 OF 11

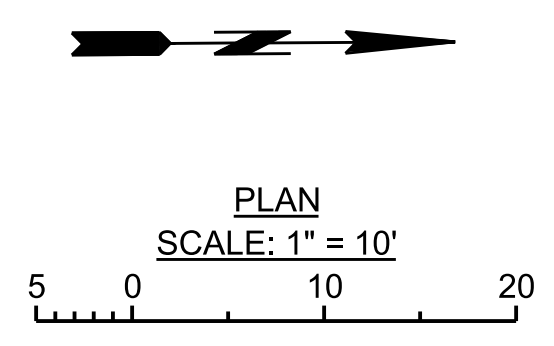
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RDC0016247.DGN

CHECKER
M. TERRELL

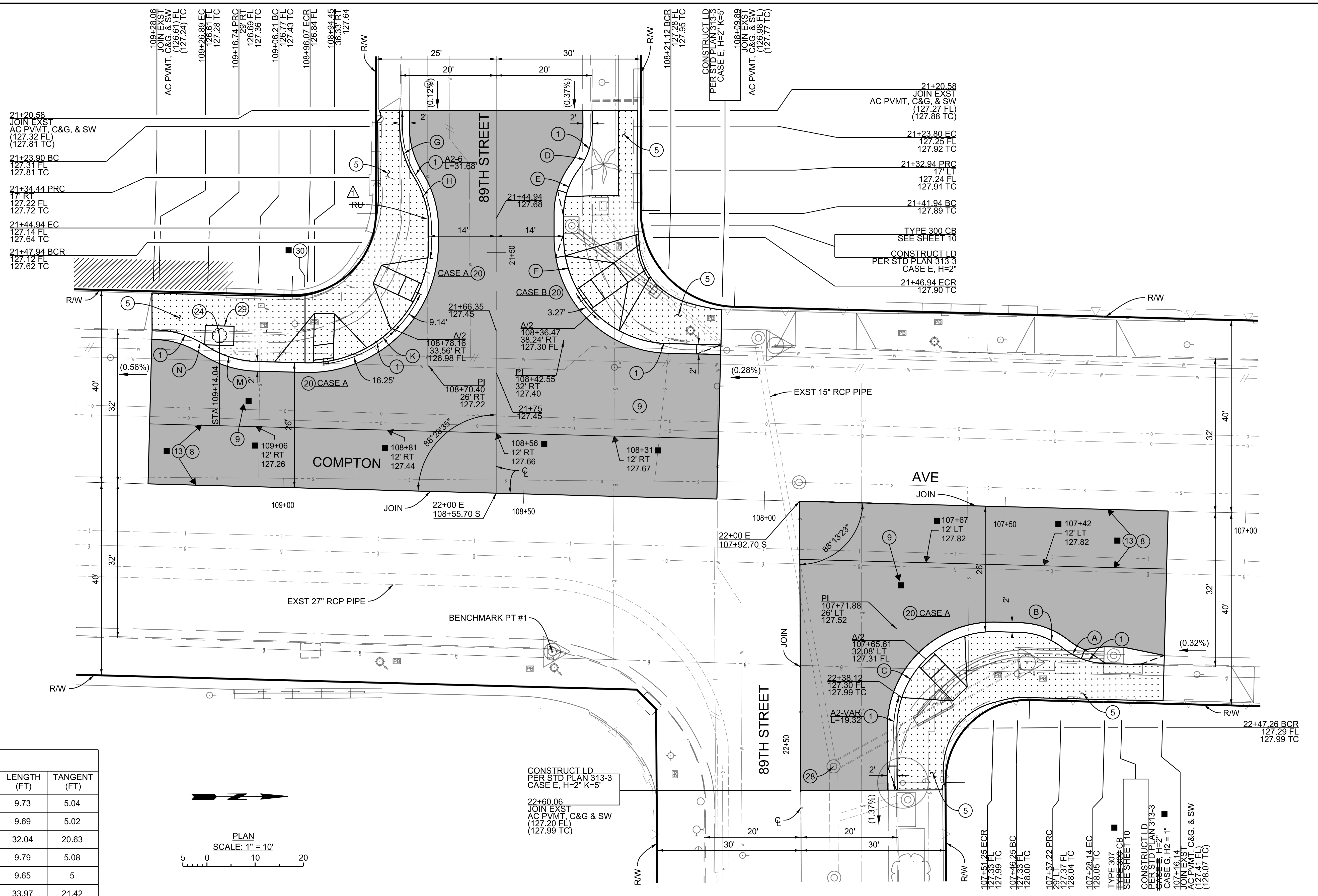
DESIGNER
A. NGUYEN

DRAFTER
K. KHOV

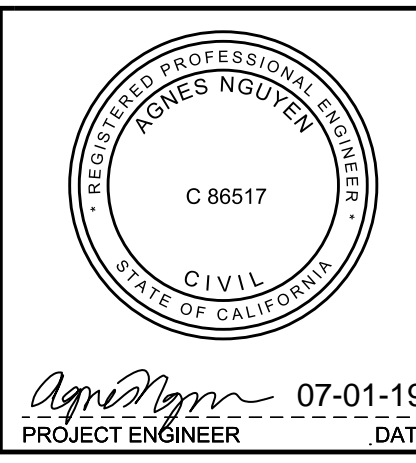
CURVE DATA				
CURVE	RADIUS (FT)	CENTRAL ANGLE	LENGTH (FT)	TANGENT (FT)
(A)	15	37°10'42"	9.73	5.04
(B)	15	37°00'15"	9.69	5.02
(C)	20	91°46'37"	32.04	20.63
(D)	15	37°24'06"	9.79	5.08
(E)	15	36°52'26"	9.65	5
(F)	22	88°28'35"	33.97	21.42
(G)	20	31°48'53"	11.11	5.7
(H)	20	31°44'00"	11.08	5.68
(K)	25	91°31'25"	39.93	25.67
(M)	20	31°48'33"	11.1	5.7
(N)	20	30°39'57"	10.7	5.48



BENCHMARK PT #1
 PWFB 0921, PAGE 4646
 DPW TAG IN SE CB RET
 89TH ST (N) & COMPTON AVE ± 2FT N/O BCR
 ELEV = 127.725 NAVD'88 (WATTS 2005)



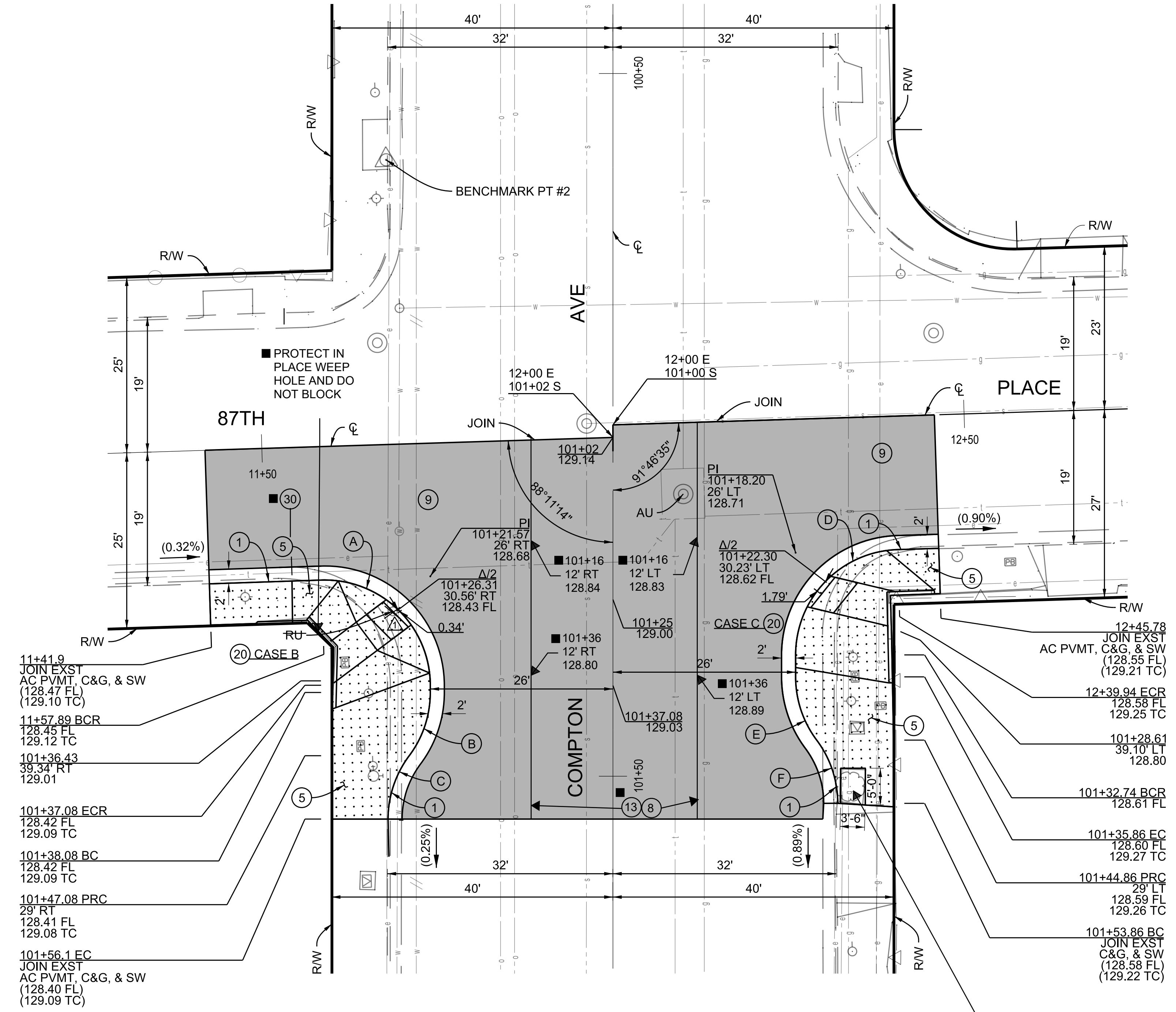
DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
5/12/20	▲	UTILITY RELOCATED



LOS ANGELES COUNTY PUBLIC WORKS

**FIRESTONE METRO BLUE LINE
STATION INTERSECTION AND BIKEWAY
IMPROVEMENTS PROJECT**
 PROJECT ID NO. RDC0016247
 PLAN
 89TH ST AND COMPTON AVE

DATE: 07-01-19
 PROJECT ENGINEER: [Signature]
 DWG: PH086771 SHEET 5 OF 11



11+41.9
JOIN EXST
AC PVMT, C&G, & SW
(128.47 FL)
(129.10 TC)

11+57.89 BCR
129.45 FL
129.12 TC

101+36.43
39.34 RT
129.01

101+37.08 ECR
128.42 FL
129.09 TC

101+38.08 BC
128.42 FL
129.09 TC

101+47.08 PRC
29 RT
128.41 FL
129.08 TC

101+56.1 EC
JOIN EXST
AC PVMT, C&G, & SW
(128.40 FL)
(129.09 TC)

12+45.79
JOIN EXST
AC PVMT, C&G, & SW
(128.55 FL)
(129.21 TC)

12+39.94 ECR
128.58 FL
129.25 TC

101+28.61
39.10 LT
128.80

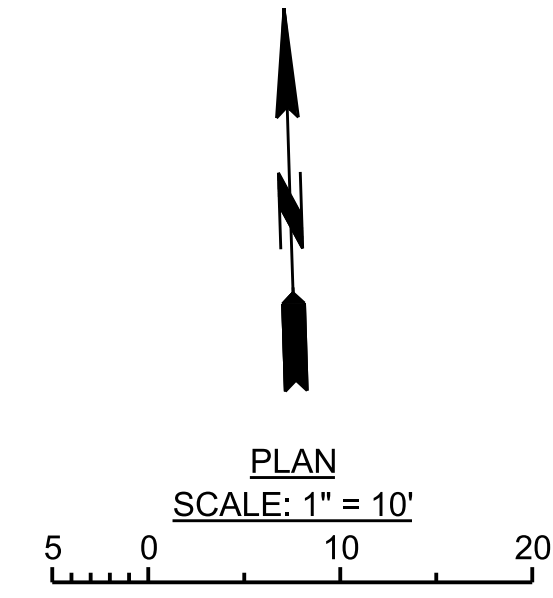
101+32.74 BCR
128.61 FL

101+35.86 EC
128.60 FL
129.27 TC

101+44.86 PRC
29 LT
128.59 FL
129.26 TC

101+53.86 BC
JOIN EXST
C&G, & SW
(128.58 FL)
(129.22 TC)

REMOVE TREE AND
FILL TREE WELL
WITH PCC SIDEWALK

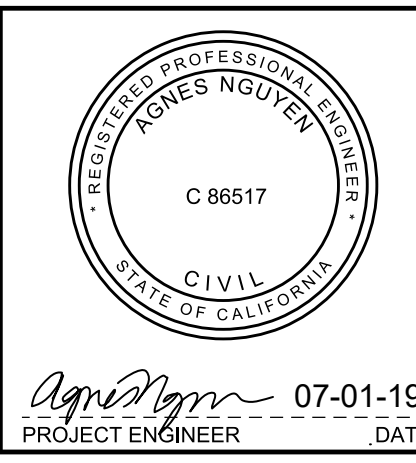


BENCHMARK PT #2
PWFB 0921, PAGE 4646
L & DPW TAG IN W, CB COMPTON AVE ± 7FT N/O BCR
@ NW COR 87TH PL & COMPTON AVE
ELEV = 129.23 NAVD '88 (WATTS 2005)

CURVE DATA

CURVE	RADIUS (FT)	CENTRAL ANGLE	LENGTH (FT)	TANGENT (FT)
(A)	15	91°48'46"	24.04	15.48
(B)	15	36°52'11"	9.65	5
(C)	15	36°56'12"	9.65	5
(D)	15	88°13'25"	23.1	14.54
(E)	15	36°52'11"	9.65	5
(F)	15	36°52'11"	9.65	5

DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
5/12/20	▲	UTILITY RELOCATED



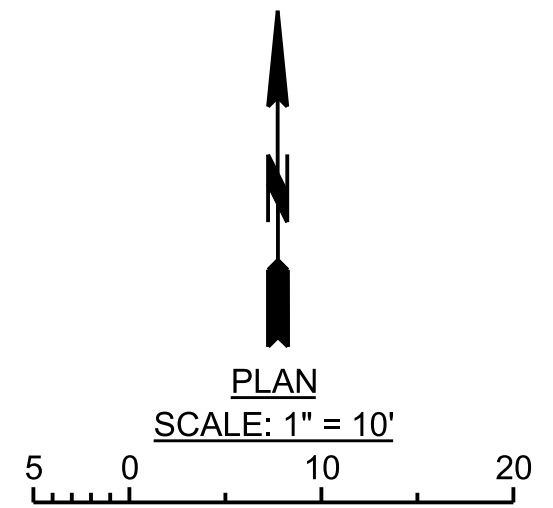
LOS ANGELES COUNTY PUBLIC WORKS

**FIRESTONE METRO BLUE LINE
STATION INTERSECTION AND BIKEWAY
IMPROVEMENTS PROJECT**
PROJECT ID NO. RDC0016247
PLAN
87TH PL AND COMPTON AVE

DATE: 07-01-19
PROJECT ENGINEER: [Signature]
DWG: PH086771 SHEET 6 OF 11

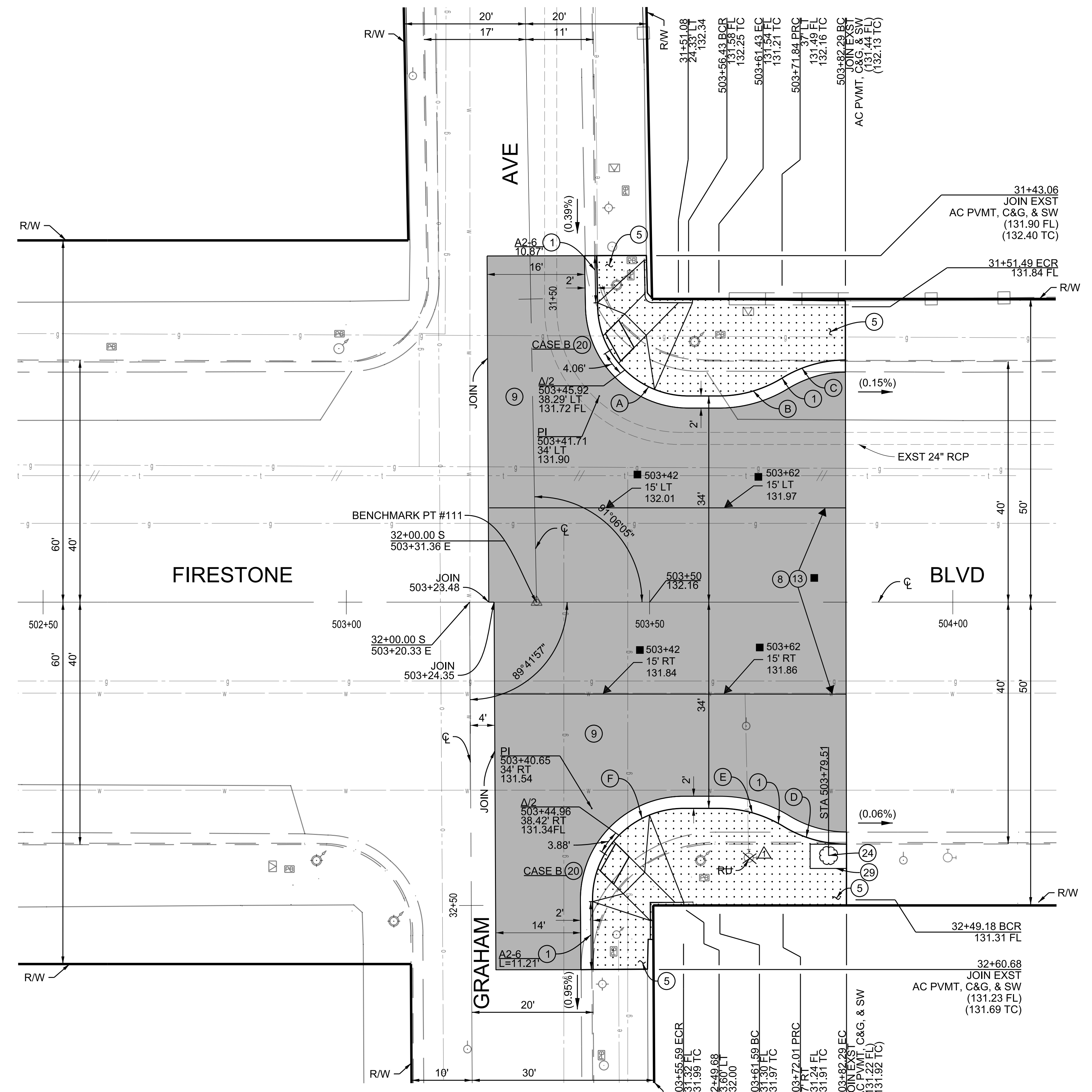
DRAFTER: K. KHOV
 DESIGNER: A. NGUYEN
 CHECKER: M. TERRELL
 CADD PROJECT FILE NAME: RDC0016247.DGN

CADD PROJECT FILE NAME
 RDC0016247.DGN
 CHECKER
 M. TERRELL
 DESIGNER
 A. NGUYEN
 DRAFTER
 C. TANG



CURVE DATA				
CURVE	RADIUS (FT)	CENTRAL ANGLE	LENGTH (FT)	TANGENT (FT)
(A)	15	88°54'00"	23.27	14.71
(B)	20	31°24'40"	10.96	5.62
(C)	20	31°30'02"	11.00	5.64
(D)	20	31°30'02"	11.00	5.64
(E)	20	31°24'40"	10.96	5.62
(F)	15	90°18'02"	23.64	15.08

BENCHMARK PT #111
 PWFB 0921, PAGE 4658
 L & DPW TAG @ NE COR
 GRAHAM AVE & FIRESTONE BLVD 1/2 W/O BCR
 ELEV = 132.15 NAVD '88 (WATTS 2005)



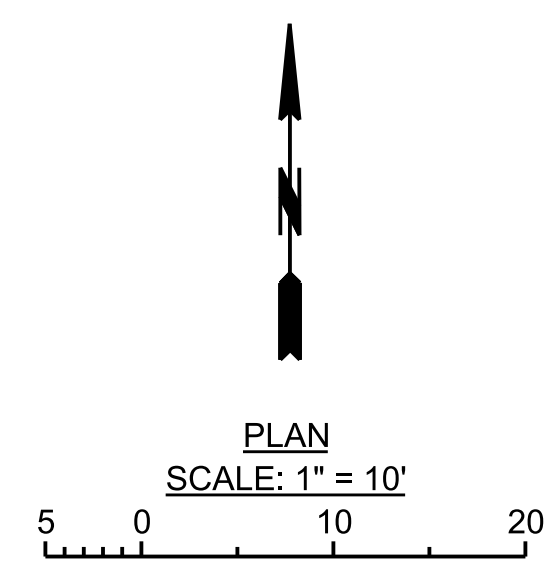
DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
5/12/20	▲	UTILITY RELOCATED
REVISIONS		

PROJECT ENGINEER
 PHOENIX NGUYEN
 C 86517
 CIVIL
 STATE OF CALIFORNIA
 07-01-19
 DATE

LOS ANGELES COUNTY PUBLIC WORKS
**FIRESTONE METRO BLUE LINE
 STATION INTERSECTION AND BIKEWAY
 IMPROVEMENTS PROJECT**
 PROJECT ID NO. RDC0016247
 PLAN
 GRAHAM AVE AND FIRESTONE BLVD
 DWG PH086771 SHEET 7 OF 11

AS BUILT DRAWINGS PLAN RD

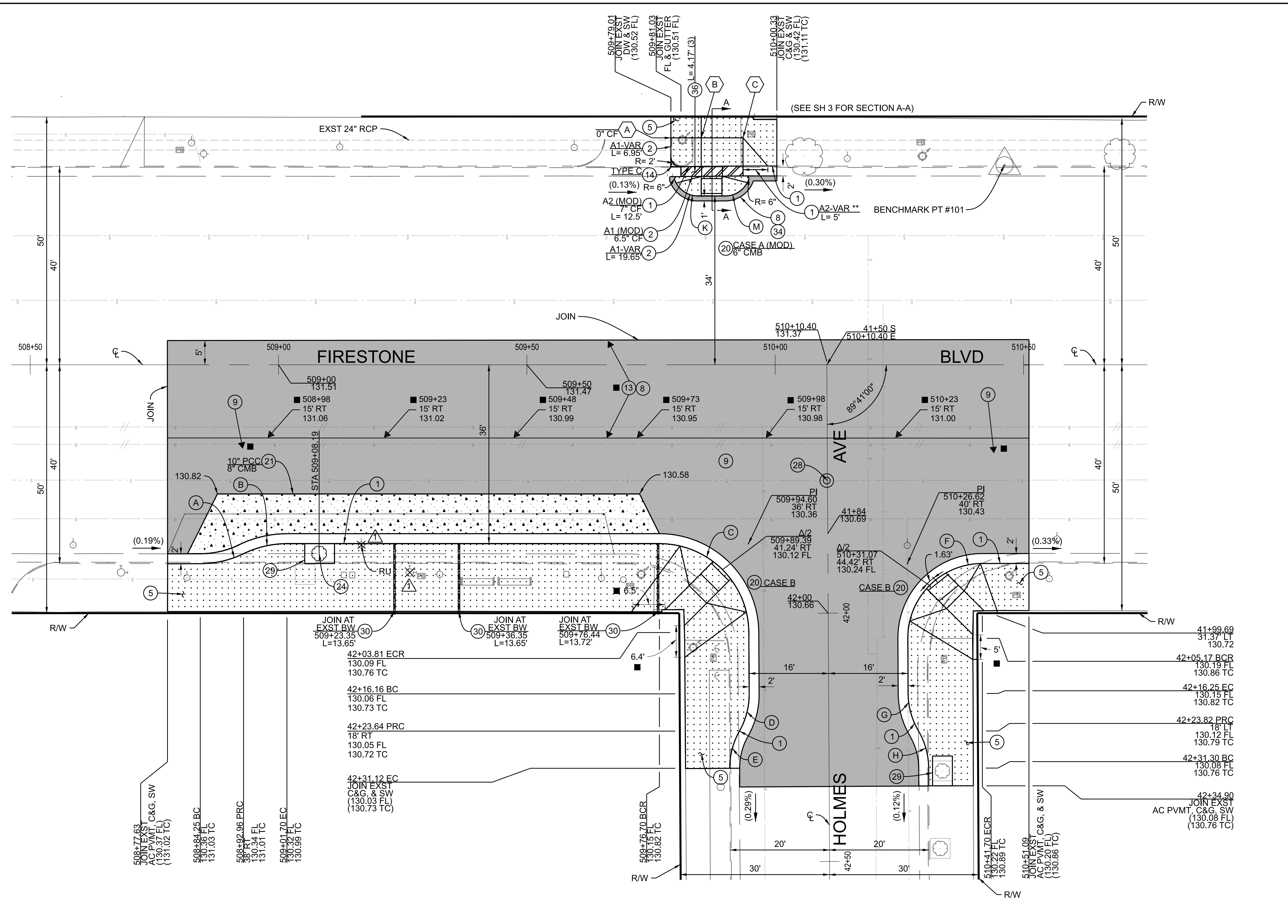
** TRANSITION CURB FACE FROM A2-7 TO A2-8



CONSTRUCTION POINTS			
POINT	STATION	OFFSET	ELEVATION (FT)
A	509+79.01	45.7' LT	131.15
B	509+85.11	45.7' LT	131.43
C	509+93.53	45.7' LT	131.39

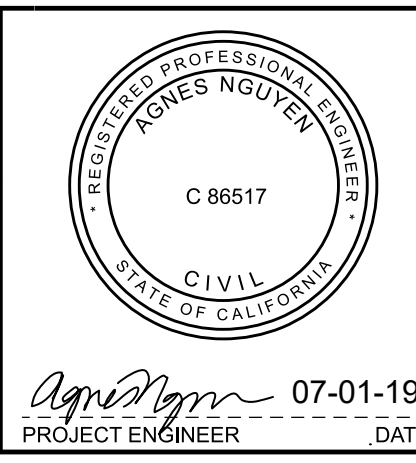
CURVE DATA				
CURVE	RADIUS (FT)	CENTRAL ANGLE	LENGTH (FT)	TANGENT (FT)
A	20	25°49'47"	9.02	4.59
B	20	25°54'31"	9.04	4.6
C	18	89°40'36"	28.17	17.9
D	15	29°55'35"	7.83	4.01
E	15	29°55'35"	7.83	4.01
F	15	90°18'36"	23.64	15.08
G	15	30°24'04"	7.96	4.08
H	15	29°55'35"	7.83	4.01
K	5	69°14'04"	6.04	3.45
M	5	70°58'35"	6.19	3.56

BENCHMARK PT #101
 PWFB 0921, PAGE 4659
 L & DPW TAG IN NCB @ CL INT
 HOLMES AVE (S) & FIRESTONE BLVD 36' E/O FIRESTONE BLVD
 ELEV = 130.94 NAVD '88 (WATTS 2005)



CADD PROJECT FILE NAME: RDC0016247.DGN
 CHECKER: M. TERRELL
 DESIGNER: A. NGUYEN
 DRAFTER: C. TANG

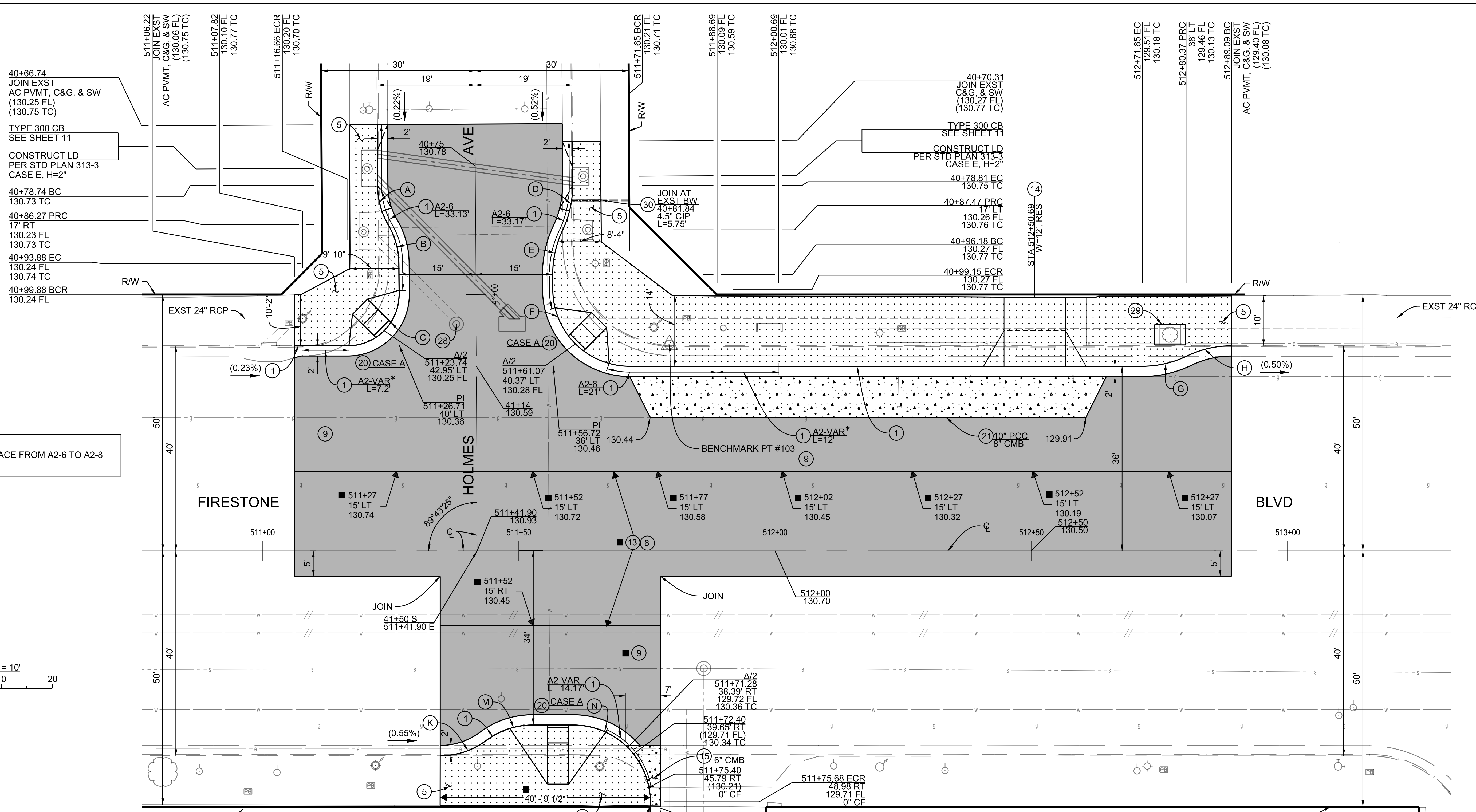
DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
5/12/20	▲	UTILITY RELOCATED



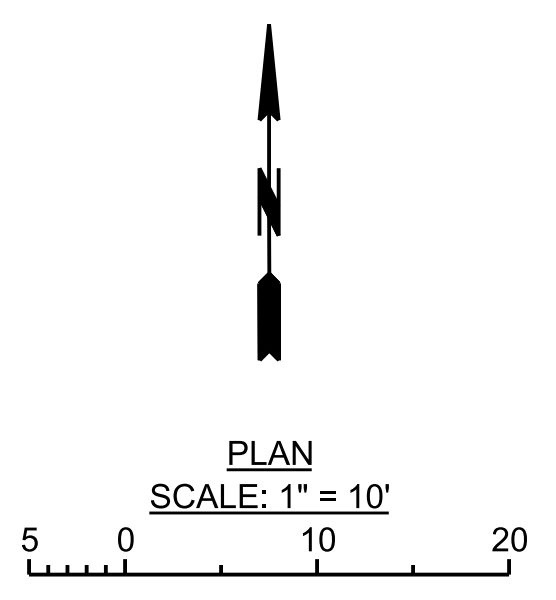
LOS ANGELES COUNTY PUBLIC WORKS

**FIRESTONE METRO BLUE LINE
 STATION INTERSECTION AND BIKEWAY
 IMPROVEMENTS PROJECT**
 PROJECT ID NO. RDC0016247
 PLAN
 HOLMES AVE AND FIRESTONE BLVD

PROJECT ENGINEER: *Agustin* 07-01-19
 DWG: PH086771 SHEET 8 OF 11



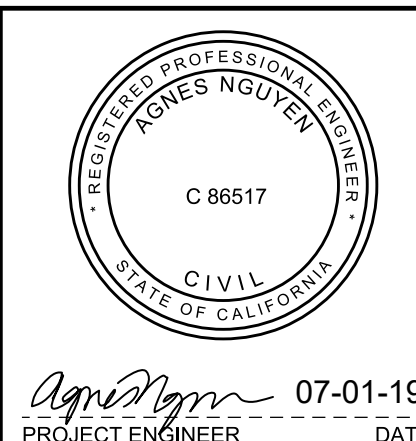
* TRANSITION CURB FACE FROM A2-6 TO A2-8



CURVE DATA				
CURVE	RADIUS (FT)	CENTRAL ANGLE	LENGTH (FT)	TANGENT (FT)
(A)	15	30°08'20"	7.89	4.04
(B)	15	30°27'26"	7.97	4.08
(C)	10	90°16'47"	15.76	10.05
(D)	20	25°39'24"	8.96	4.55
(E)	20	25°50'11"	9.02	4.59
(F)	15	89°43'15"	23.49	14.93
(G)	20	25°50'31"	9.02	4.59
(H)	20	25°50'31"	9.02	4.59
(K)	15	36°52'11"	9.65	5
(M)	15	36°52'11"	9.65	5
(N)	15	89°56'00"	23.54	14.98

BENCHMARK PT #103
 PWFB 0921, PAGE 4659
 L & DPW TAG @ NE COR
 HOLMES AVE (N) & FIRESTONE BLVD @ E/O BCR
 ELEV = 130.58 NAVD '88 (WATTS 2005)

DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS

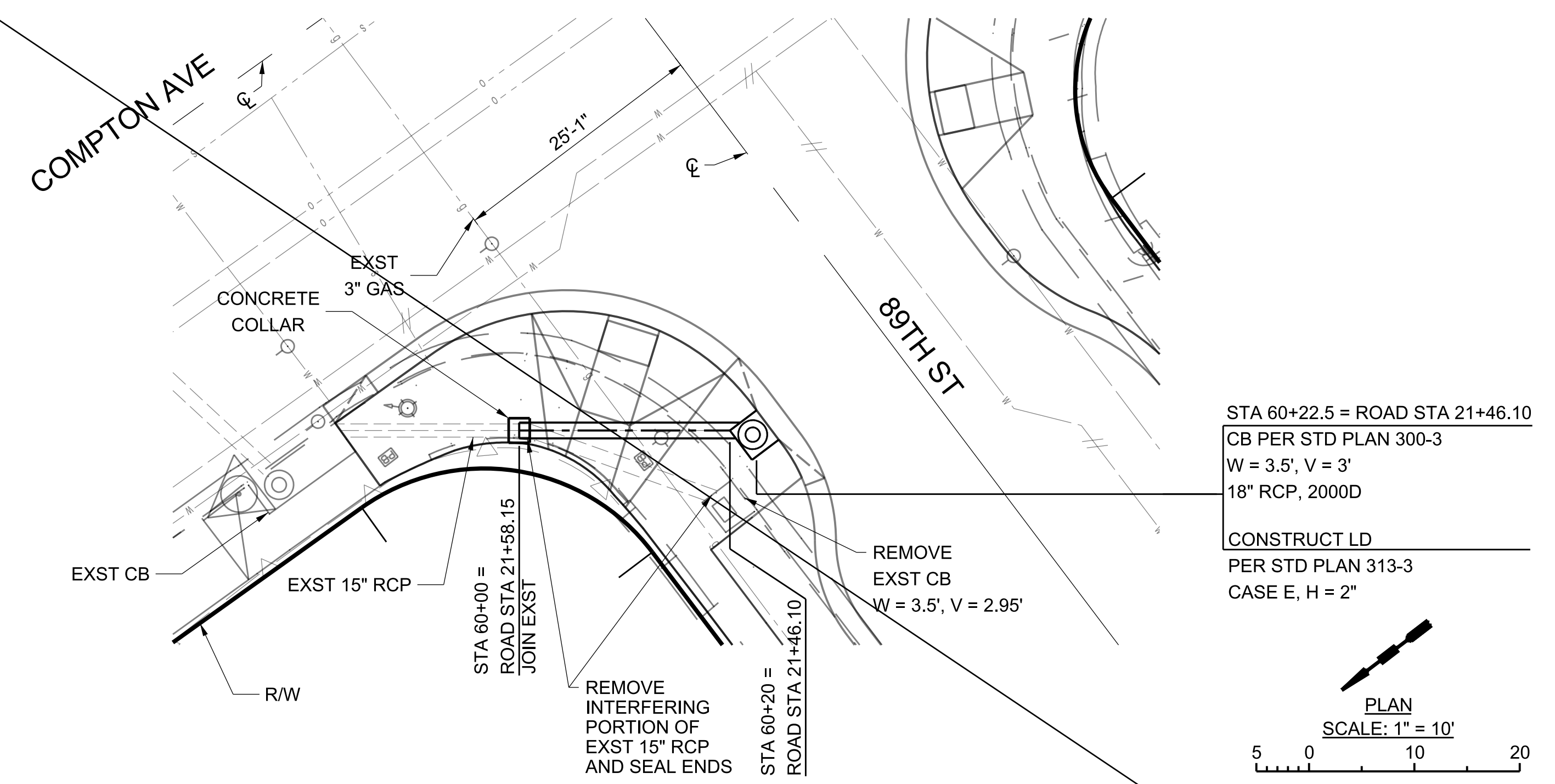
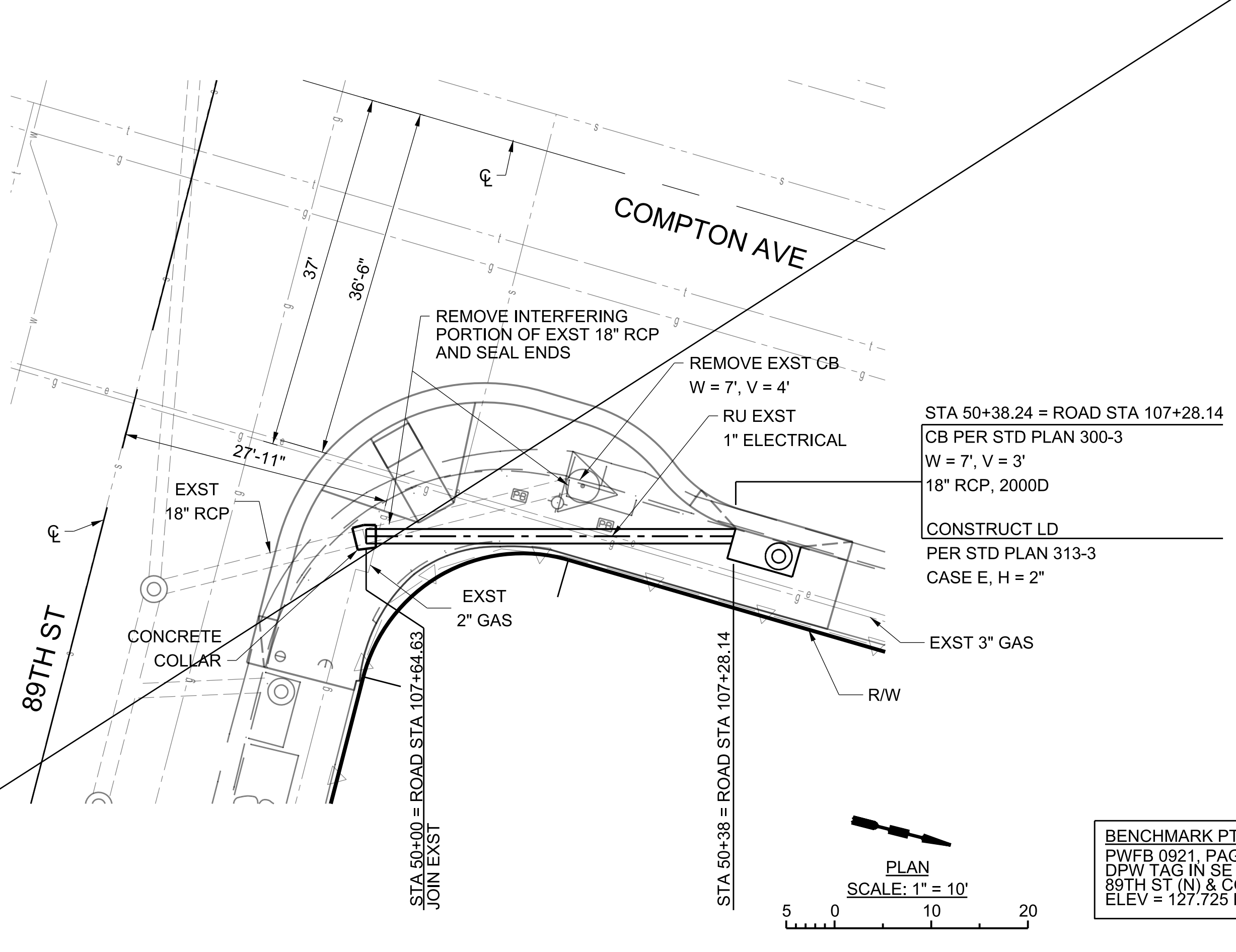
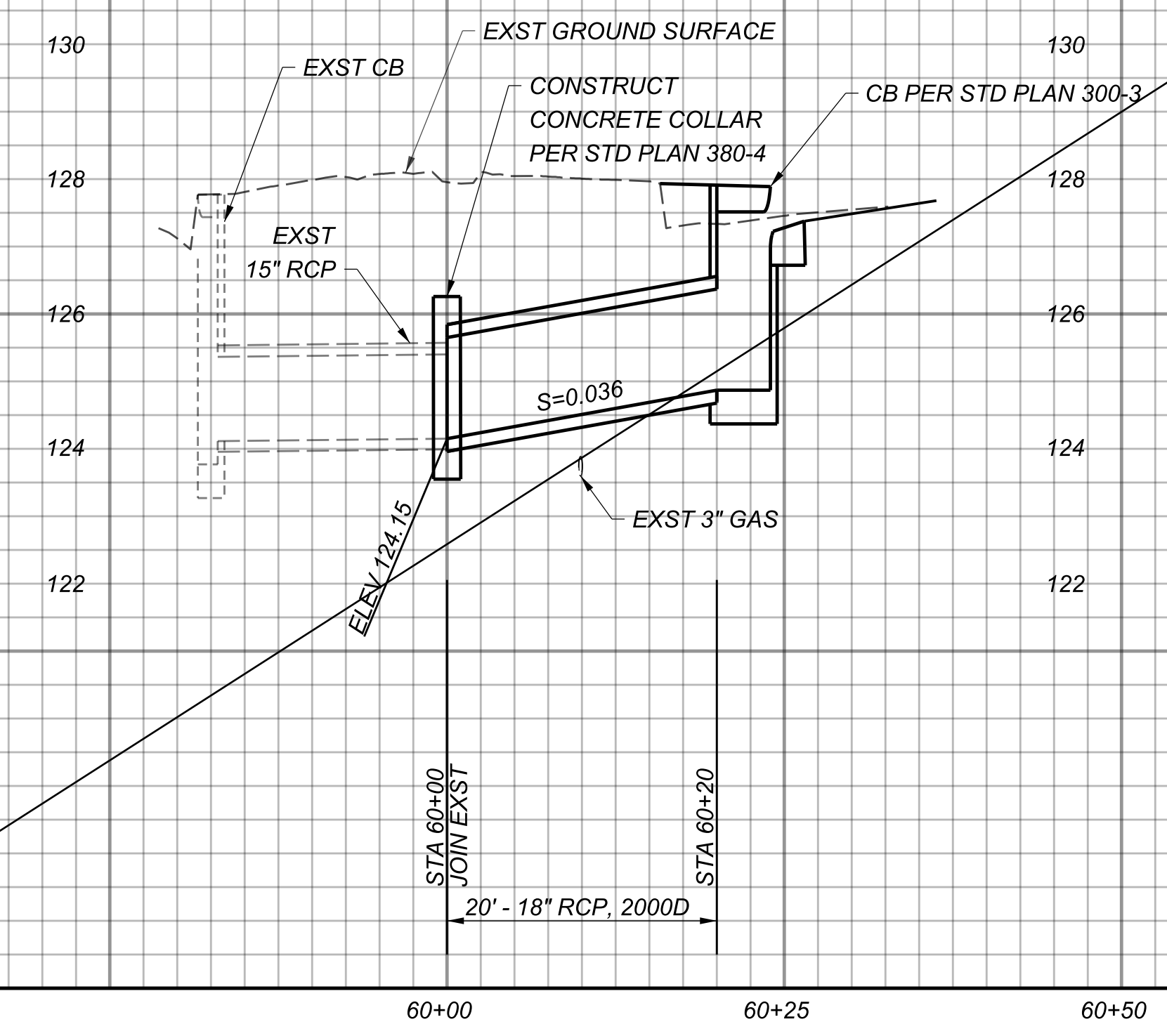
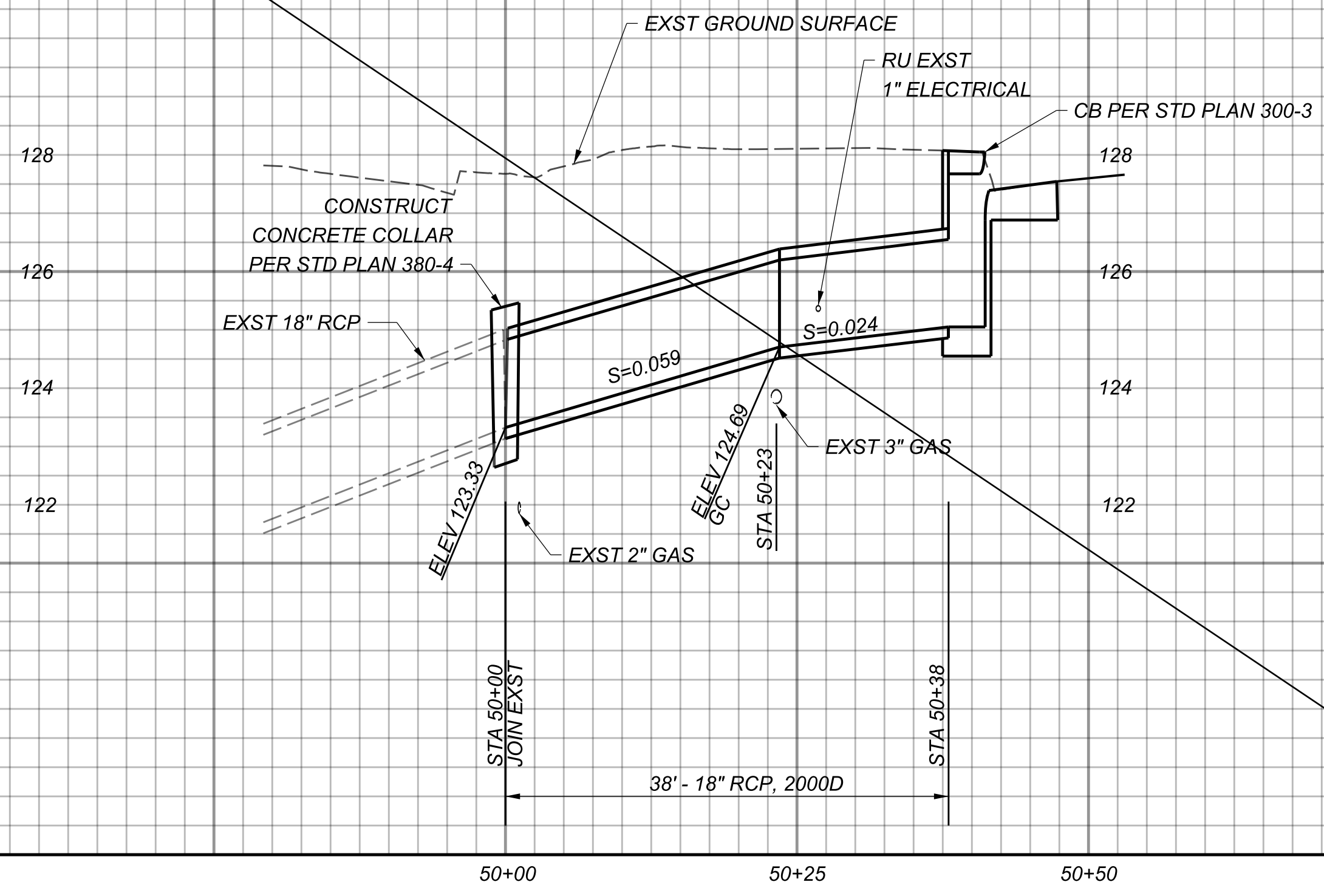
**FIRESTONE METRO BLUE LINE
 STATION INTERSECTION AND BIKEWAY
 IMPROVEMENTS PROJECT**
 PROJECT ID NO. RDC0016247
 PLAN
 HOLMES AVE AND FIRESTONE BLVD

07-01-19
 PROJECT ENGINEER DATE

DWG PH086771 SHEET 9 OF 11

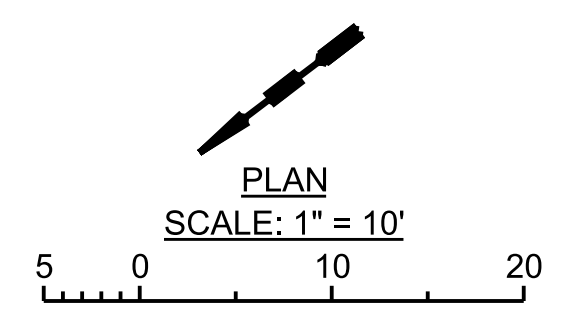
CADD PROJECT FILE NAME: RDC0016247.DGN
 CHECKER: M. TERRELL
 DESIGNER: A. NGUYEN
 DRAFTER: C. TANG

SCALE: HOR. 1"= 10'
VERT. 1"= 2'

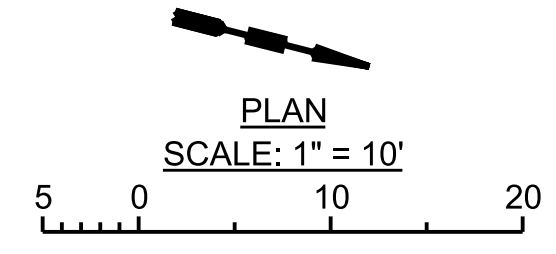


STA 60+22.5 = ROAD STA 21+46.10
CB PER STD PLAN 300-3
W = 3.5', V = 3'
18" RCP, 2000D

CONSTRUCT LD
PER STD PLAN 313-3
CASE E, H = 2"



BENCHMARK PT #1
PWFB 0921, PAGE 4646
DPW TAG IN SE CB RET
89TH ST (N) & COMPTON AVE ± 2FT N/O BCR
ELEV = 127.725 NAVD '88 (WATTS 2005)



DRAFTER: K. KHOU
 DESIGNER: A. NGUYEN
 CHECKER: M. TERRELL
 CADD PROJECT FILE NAME: RDC0016247.DGN

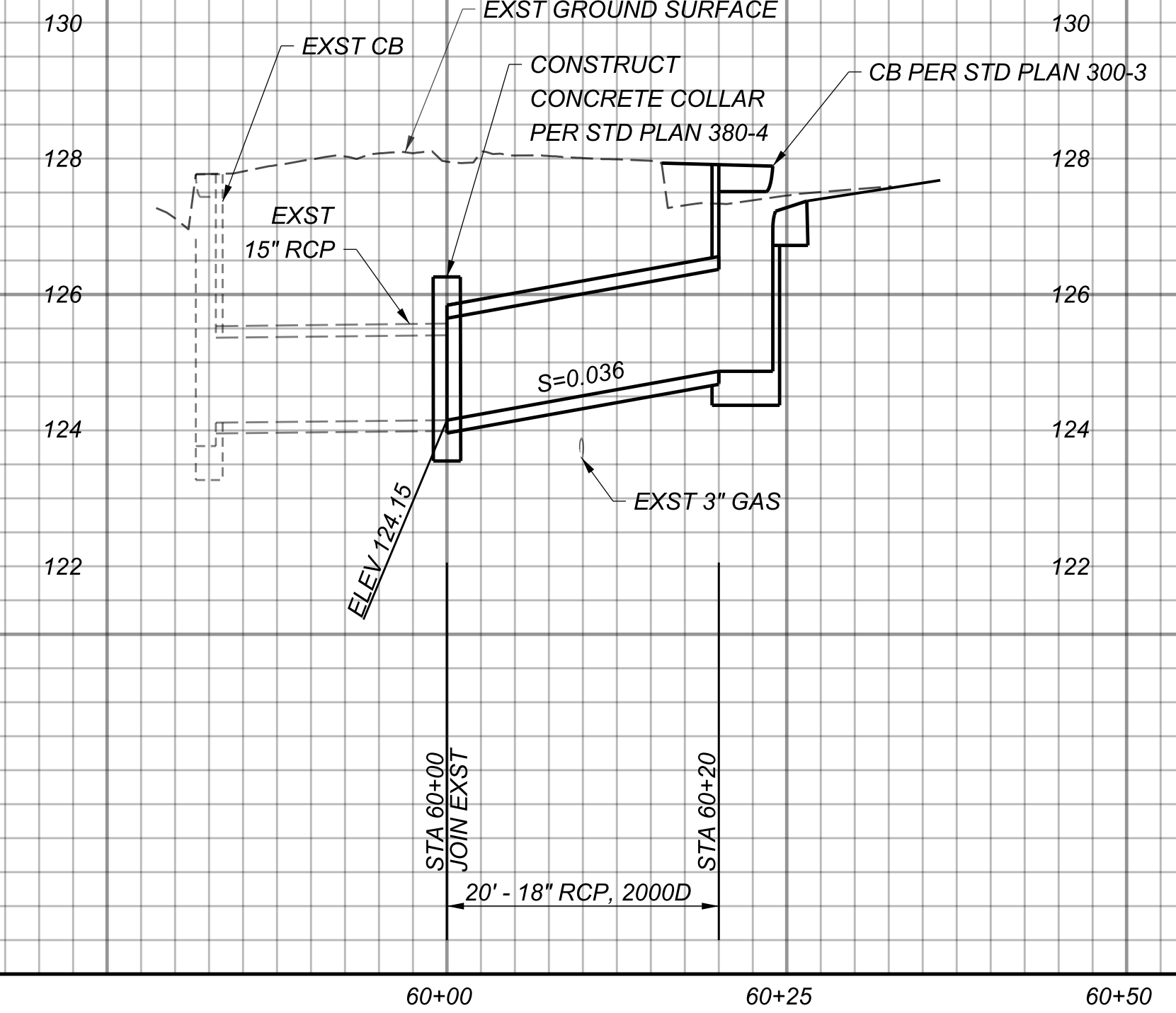
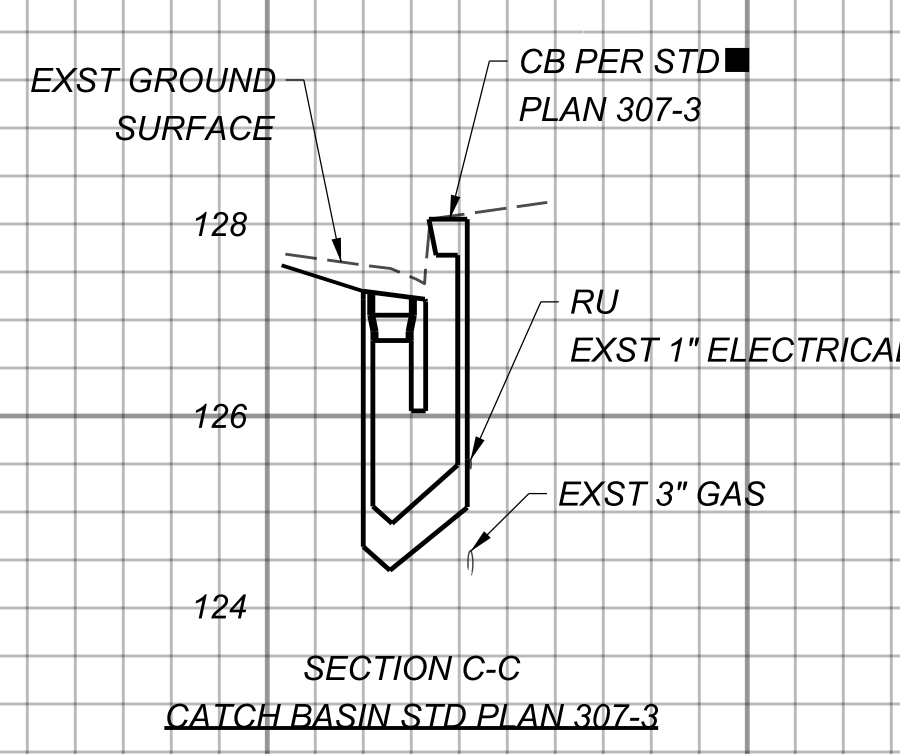
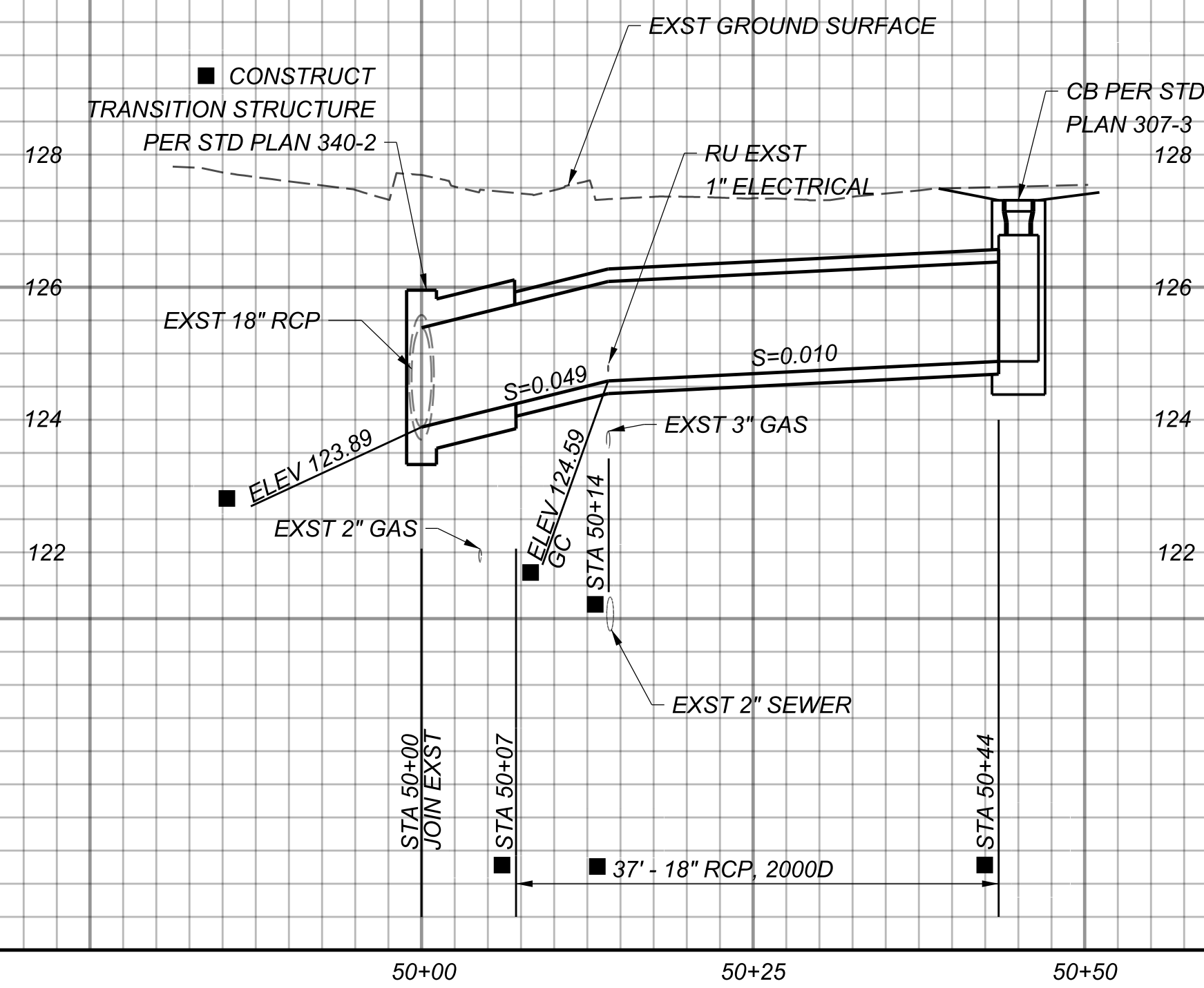
DATE	MARK	DESCRIPTION
REVISIONS		

PROJECT ENGINEER: *James Nguyen*
 DATE: 07-01-19

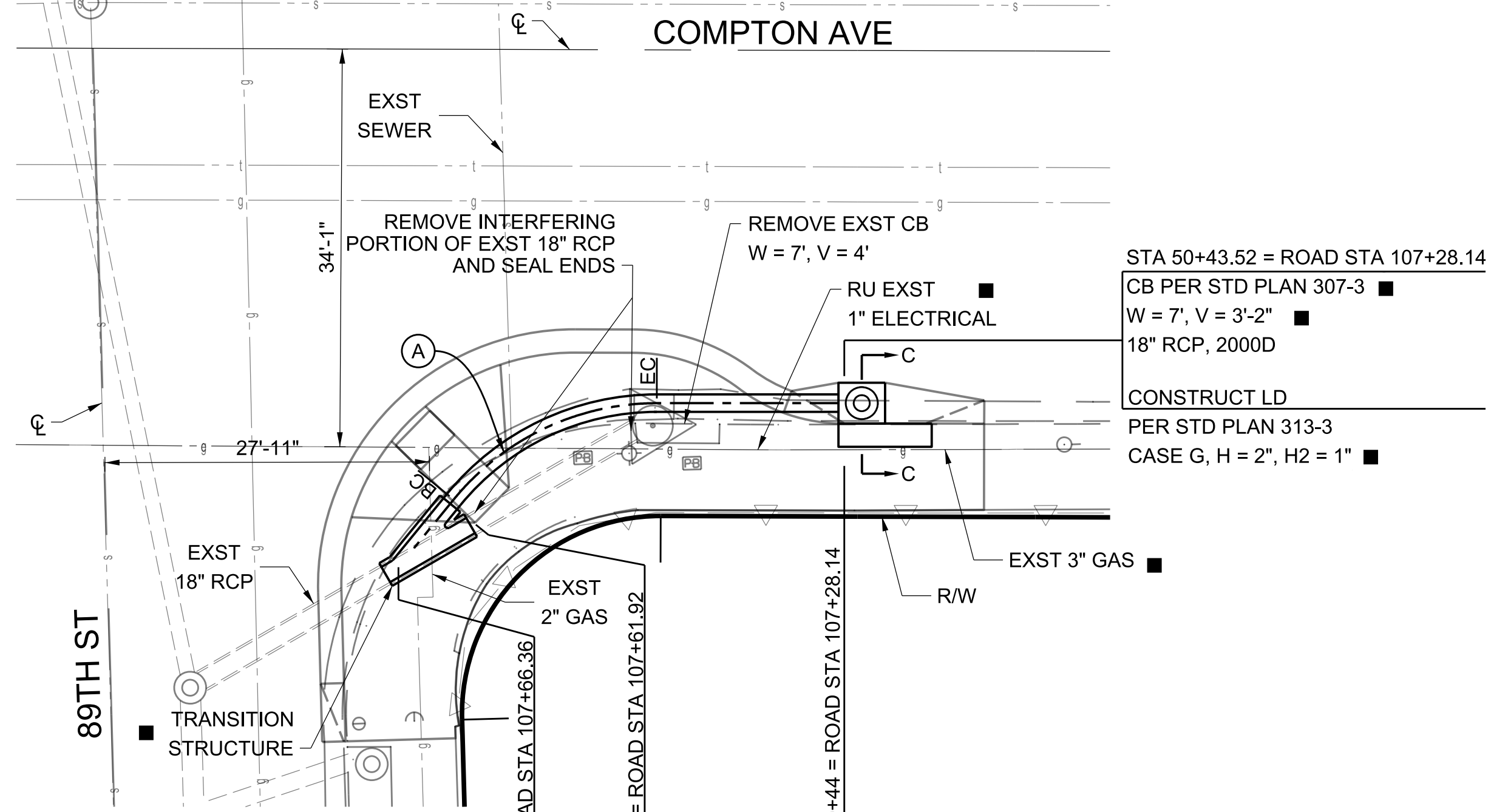
LOS ANGELES COUNTY PUBLIC WORKS
**FIRESTONE METRO BLUE LINE
 STATION INTERSECTION AND BIKEWAY
 IMPROVEMENTS PROJECT**
 PROJECT ID NO: RDC0016247
 DRAINAGE PLAN AND PROFILE
 89TH ST AND COMPTON AVE

DWG: PH086771 SHEET 10 OF 11

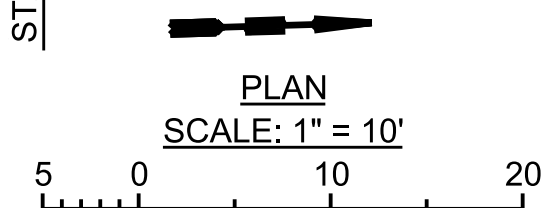
SCALE: HOR. 1"= 10'
VERT. 1"= 2'



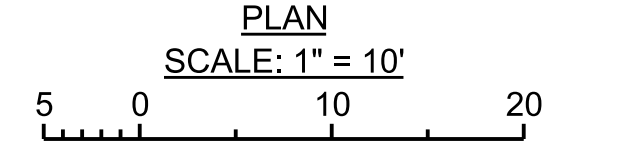
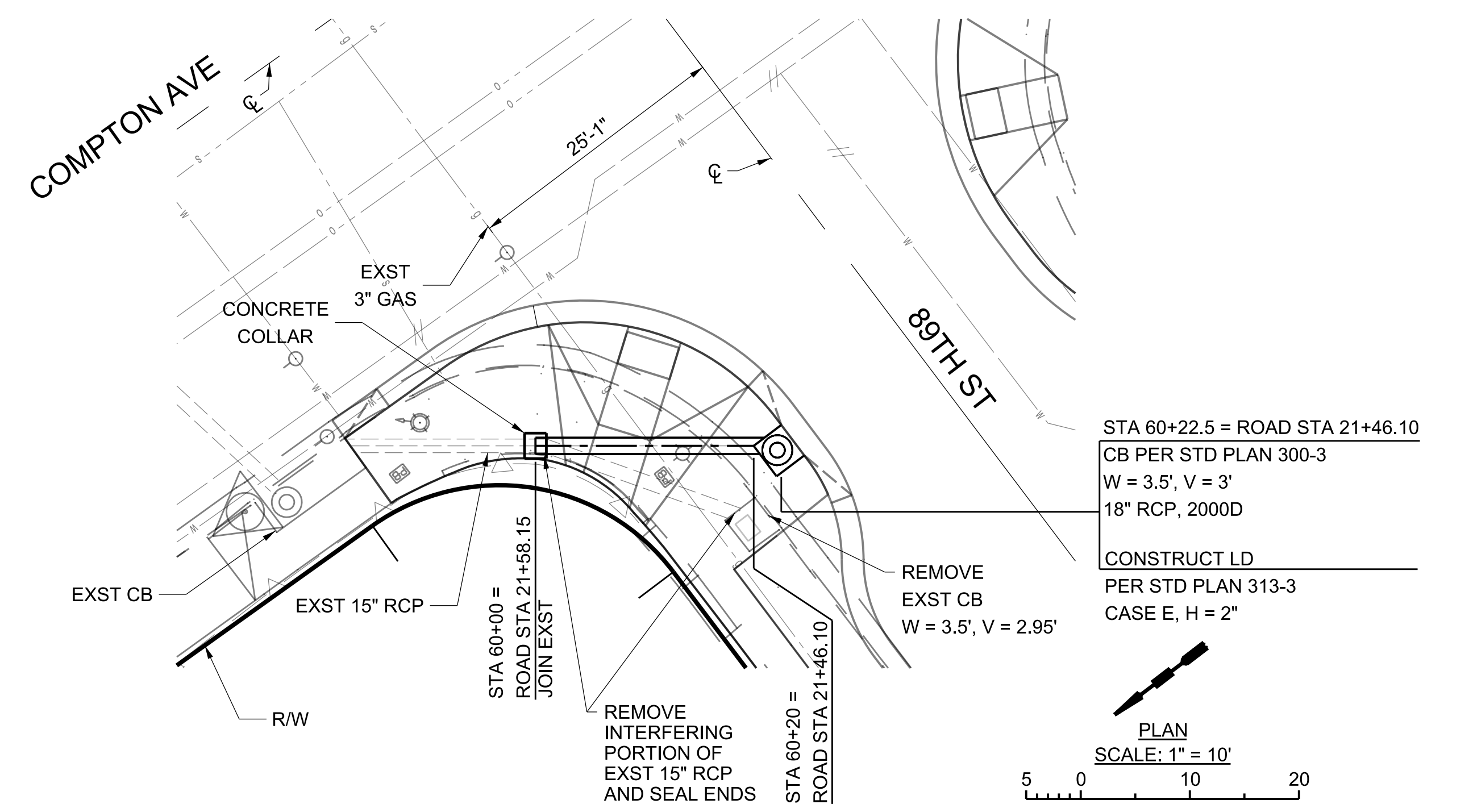
CURVE DATA						
CURVE	RADIUS	CENTRAL ANGLE	LENGTH	TANGENT	BC STA	EC STA
(A)	22.5'	50°46'07"	19.94'	10.68'	50+07.50	50+27.44



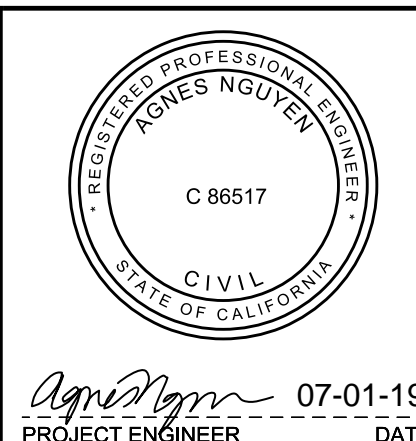
TRANSITION STRUCTURE 340-2					
A	B	C	D1	D2	ELEV S
20°42'14"	18"	4.5'	18"	18"	123.89



BENCHMARK PT #1
PWFB 0921, PAGE 4646
DPW TAG IN SE CB RET
89TH ST (N) & COMPTON AVE ± 2FT N/O BCR
ELEV = 127.725 NAVD' 88 (WATTS 2005)



DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS

FIRESTONE METRO BLUE LINE STATION INTERSECTION AND BIKEWAY IMPROVEMENTS PROJECT

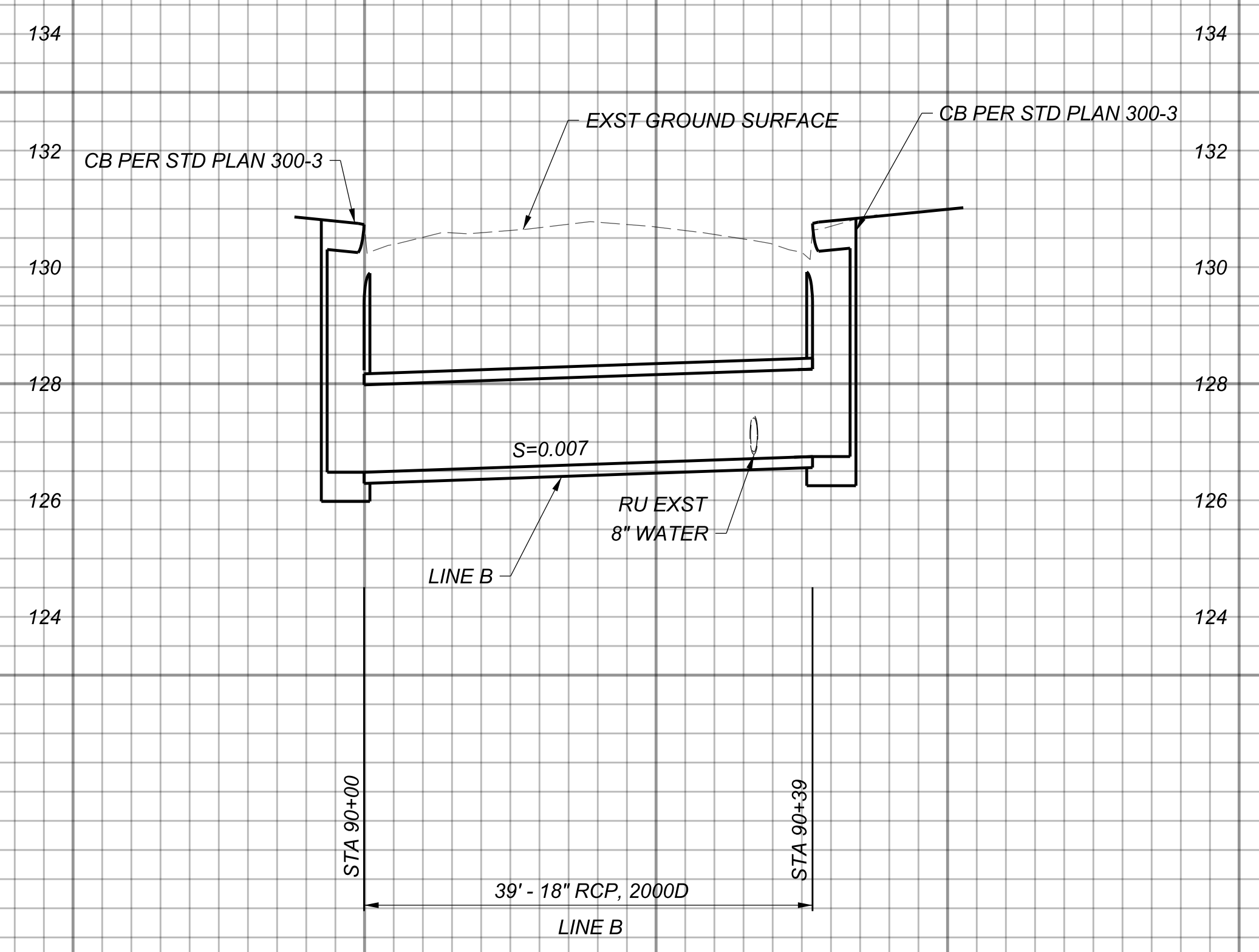
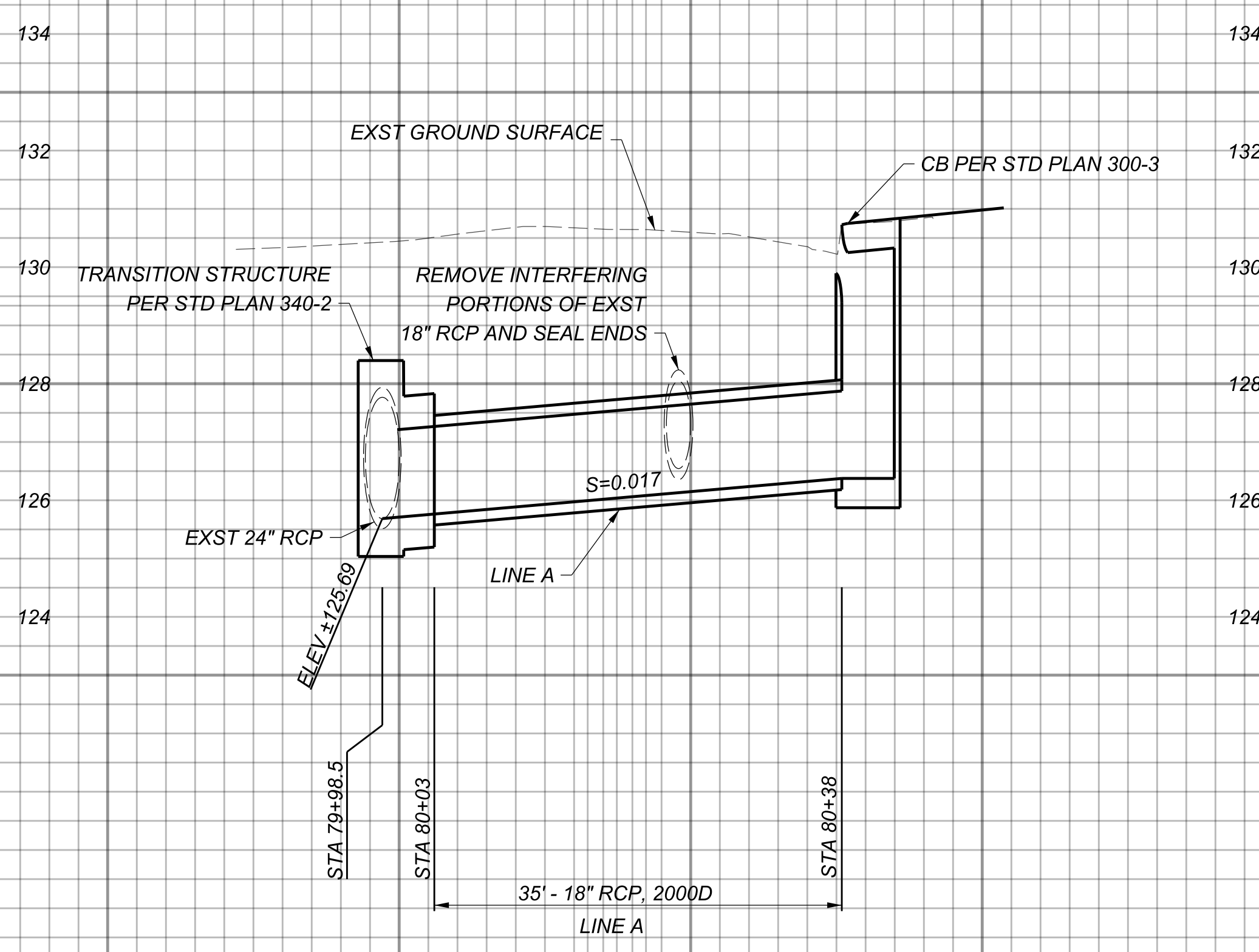
PROJECT ID NO. RDC0016247
DRAINAGE PLAN AND PROFILE
89TH ST AND COMPTON AVE

DATE: 07-01-19
PROJECT ENGINEER: [Signature]

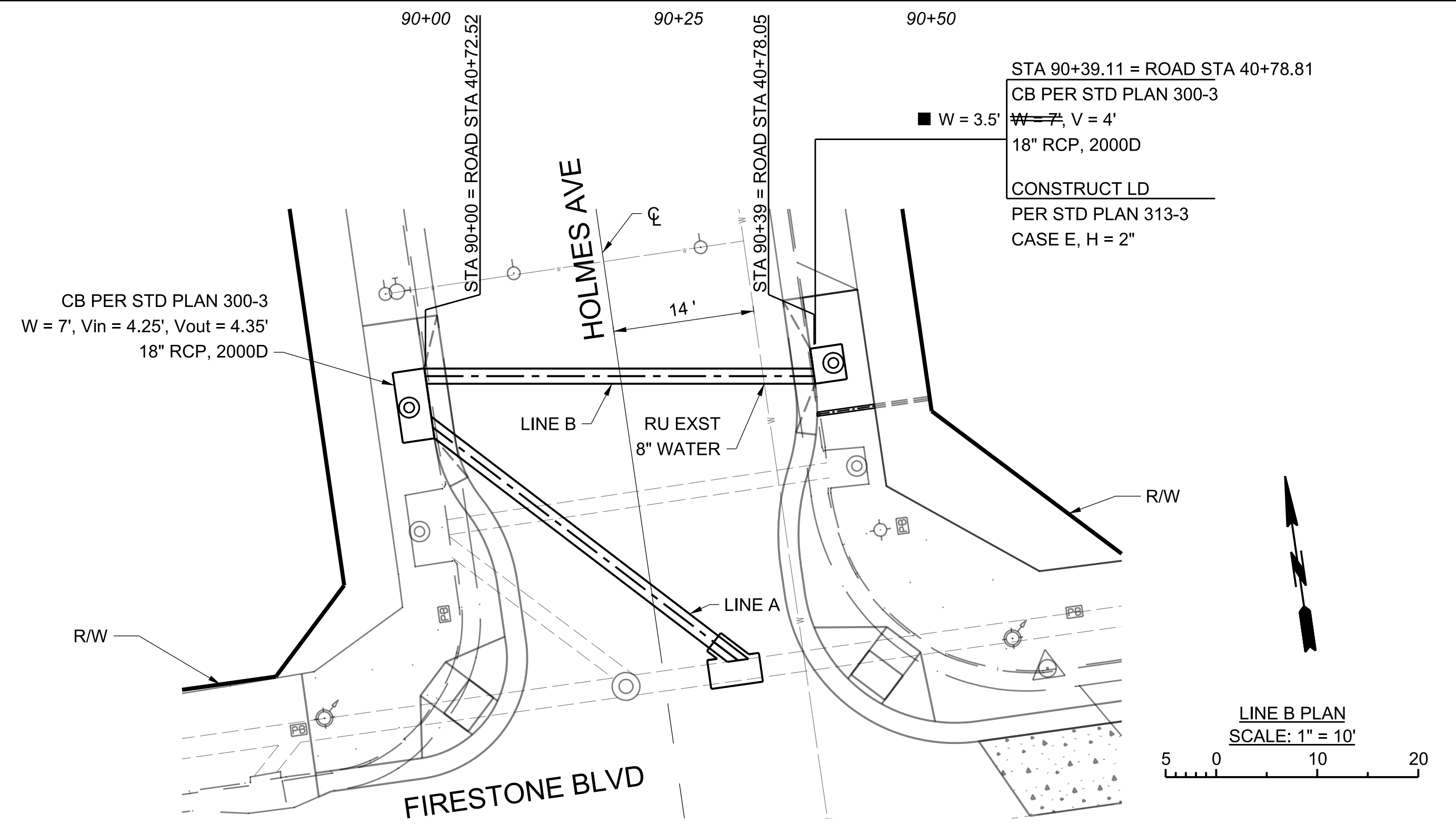
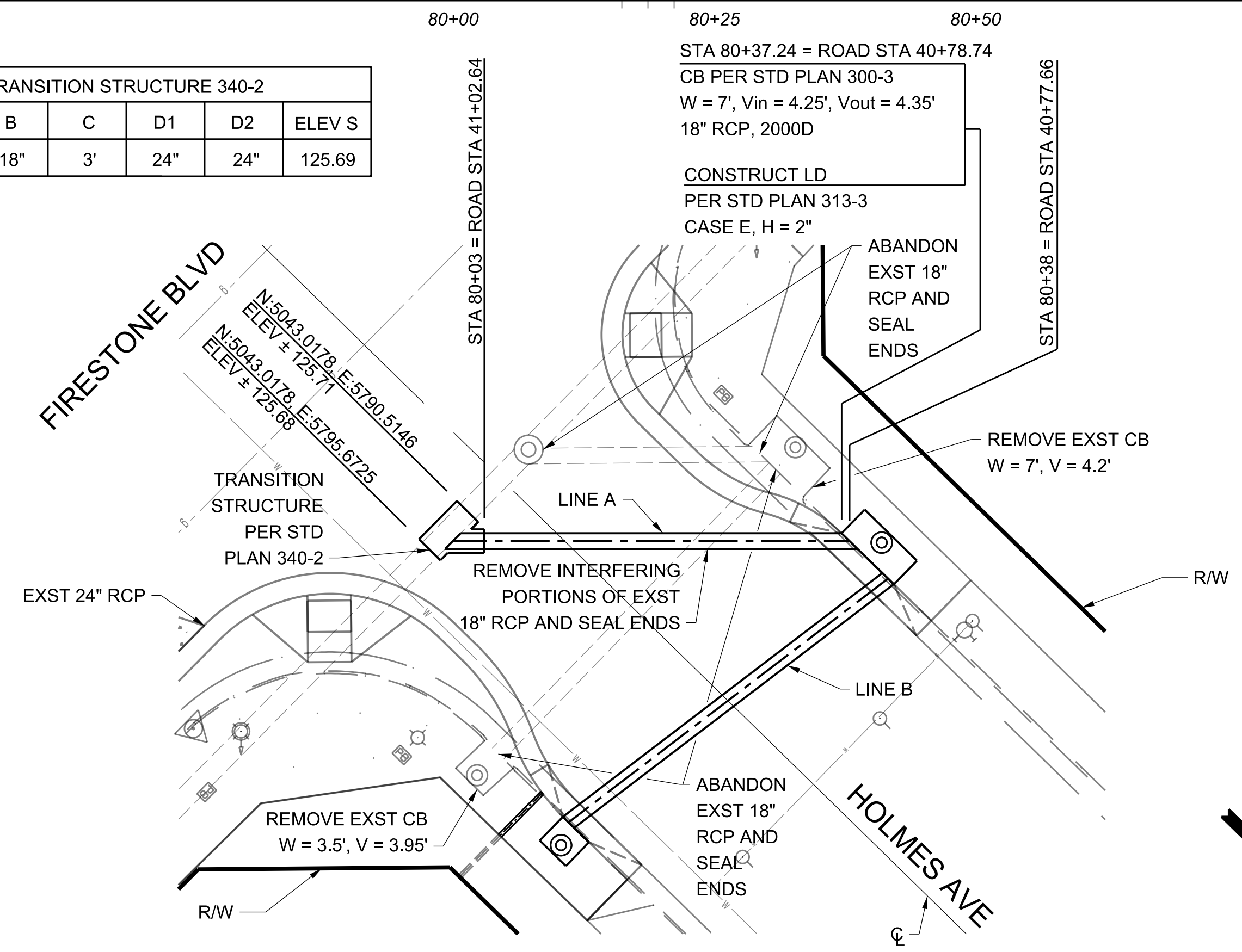
DWG: PH086771 SHEET 10 OF 11

DRAFTER: K. KHOV
 DESIGNER: A. NGUYEN
 CHECKER: M. TERRELL
 CADD PROJECT FILE NAME: RDC0016247.DGN

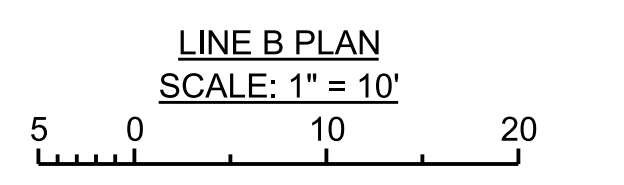
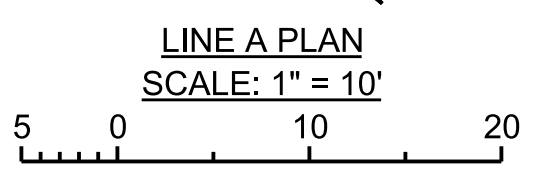
SCALE: HOR. 1"= 10'
VERT. 1"= 2'



TRANSITION STRUCTURE 340-2					
A	B	C	D1	D2	ELEV S
45°24'10"	18"	3'	24"	24"	125.69

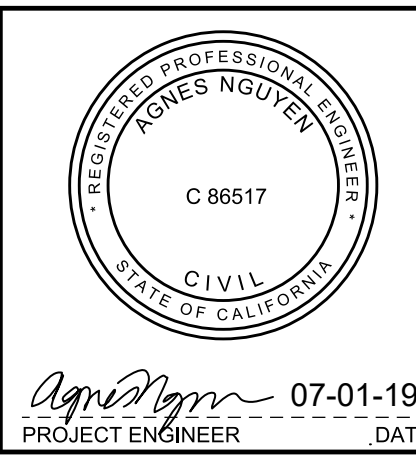


BENCHMARK PT #103
PWFB 0921, PAGE 4659
L & DPW TAG @ NE COR
HOLMES AVE (N) & FIRESTONE BLVD 05 E/O BCR
ELEV = 130.58 NAVD '88 (WATTS 2005)



CADD PROJECT FILE NAME: RDC0016247.DGN
CHECKER: M. TERRELL
DESIGNER: A. NGUYEN
DRAFTER: K. KHOV

DATE	MARK	DESCRIPTION
2/7/23	■	AS BUILT REVISIONS
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS
FIRESTONE METRO BLUE LINE STATION INTERSECTION AND BIKEWAY IMPROVEMENTS PROJECT
PROJECT ID NO. RDC0016247
DRAINAGE PLAN AND PROFILE
HOLMES AVE AND FIRESTONE BLVD
PH086771 SHEET 11 OF 11

AS BUILT DRAWINGS PLAN RD