

# COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

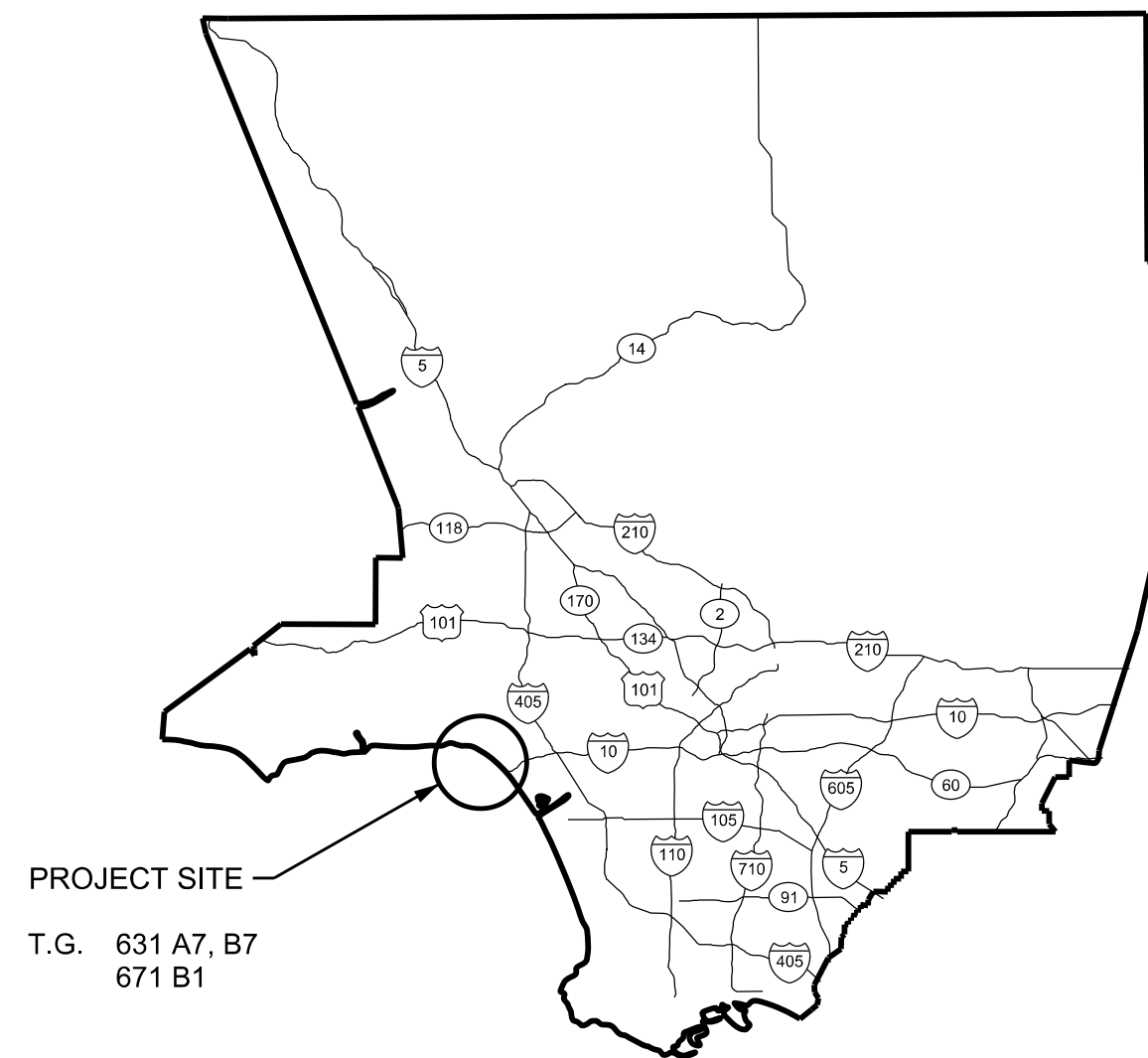
## MARVIN BRAUDE BEACH TRAIL GAP CLOSURE

### PROJECT ID NO. RDC0015071

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3	TYPICAL SECTIONS
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5	MBBT PLAN AND PROFILE - STA 11+00 TO STA 22+25
6	MBBT PLAN AND PROFILE - STA 22+25 TO STA 32+16.30
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9	RETAINING WALL PROFILE
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14	SIGNING AND STRIPING PLAN - STA 10+00 TO 21+00
15	SIGNING AND STRIPING PLAN - STA 21+00 TO 32+08.91

PLAN B

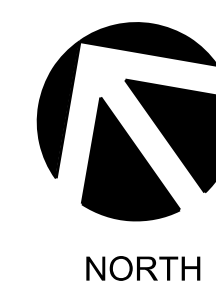


PROJECT SITE  
T.G. 631 A7, B7  
671 B1

**VICINITY MAP**



**KEY MAP**



NORTH

DRAFTER: D. LOPEZ  
 DESIGNER: D. TRAN  
 CHECKER: J. LI  
 CADD PROJECT FILE NAME: \$FILES\$

PROJECT ID RDC0015071  
 MARVIN BRAUDE BEACH  
 TRAIL GAP CLOSURE

BID PACKAGE

PRIME CONTRACTOR LICENSE REQUIRED: CLASS A

	APPROVED BY MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS  ASSISTANT DEPUTY DIRECTOR      12-21-2020      DATE			COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS <b>MARVIN BRAUDE BEACH TRAIL GAP CLOSURE</b> TITLE SHEET PROJECT ID NO. RDC0015071											
	RECOMMENDED BY:  DESIGN TEAM 3      12-21-2020      DATE	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">8/29/2023</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;">AS-BUILT PLANS</td> </tr> <tr> <td>4/12/22</td> <td style="text-align: center;">▲</td> <td></td> <td>REVISED STATIONING</td> </tr> <tr> <td>DATE</td> <td>MK</td> <td></td> <td>DESCRIPTION</td> </tr> </table>		8/29/2023			AS-BUILT PLANS	4/12/22	▲		REVISED STATIONING	DATE	MK		DESCRIPTION
8/29/2023			AS-BUILT PLANS												
4/12/22	▲		REVISED STATIONING												
DATE	MK		DESCRIPTION												

**CONSTRUCTION LEGEND**

- ② Portland Cement Concrete Pavement on Base Material
- ④ Metal Railing Per 606-4 Type C (Mod)

**CONSTRUCTION NOTES**

1. Standard plans referenced are per the Standard Plans for Public Works Construction (SPPWC) unless otherwise noted.
2. Ground topography based on NGVD 29 DSD Datum & adjusted vertically to match contours.
3. Construct transverse expansion (contact) joints in PCC (Portland Concrete Cement) pavement at 10' interval and per Standard Plan 134-3 at BC and EC of curves and at joins.
4. PCC pavement to join edge of all existing pull boxes.
5. Transverse weakened plane joints shall be constructed at intervals of 15' and shall be at least 5' from any transverse construction joint.

**CONSTRUCTION SYMBOLS**

- (NO) Indicates work per construction legend
- (Ltr) Curve data shown in table on plan
- [NO] Point data shown in table on plan
- <sup>2"</sup>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
- <sub>5"</sub>CMB Below Line: Reference to detail or thickness or base material in inches or tree well case

**STANDARD PLANS**

- SPPWC, 2012 Edition
  - 606-4 Metal Railing Type C (Modified)
- SPPWC, 2021 Edition
  - 134-3 Concrete Pavement Joint Details
- LACPW Standard Plans
  - 3080-3 Pipe Bedding In Trenches (Case 6)
- CALTRANS Standard Plans, 2018 Edition
  - D86B Pipe Culvert Headwalls, Endwalls and Warped Wingwalls
  - D89 Pipe Culvert Headwalls - Straight and "L"

**REFERENCES**

- Survey Field Notes: PWFB 1917, PG 133-149
- PWLB 1917, PG 18-34

**NON-STANDARD ABBREVIATIONS**


ABBREVIATION	WORD OR WORDS
BB	Beginning of Bridge
BC	Beginning of Curve
BM	Bench Mark
BVC	Beginning Of Vertical Curve
CB	Catch Basin
CISS	Cast-In-Steel-Shell
CL	Center Line
CMB	Crushed Miscellaneous Base
CYN	Canyon
DIA	Diameter
EB	End Of Bridge
EC	End Of Curve
EL	Elevation
EVC	End Of Vertical Curve
EXIST	Existing
LEP	Left Edge of Pavement
MBBT	Marvin Braude Bike Trail
MBPT	Marvin Braude Pedestrian Trail
PCC	Portland Concrete Cement
PED	Pedestrian
PI	Point of Inflection
PT	Point
PVMT	Pavement
R	Radius
REP	Right Edge of Pavement
SH	Sheet
STA	Station
SSD	Stopping Sight Distance
TRANS.	Transition

**TOPOGRAPHY LEGEND**

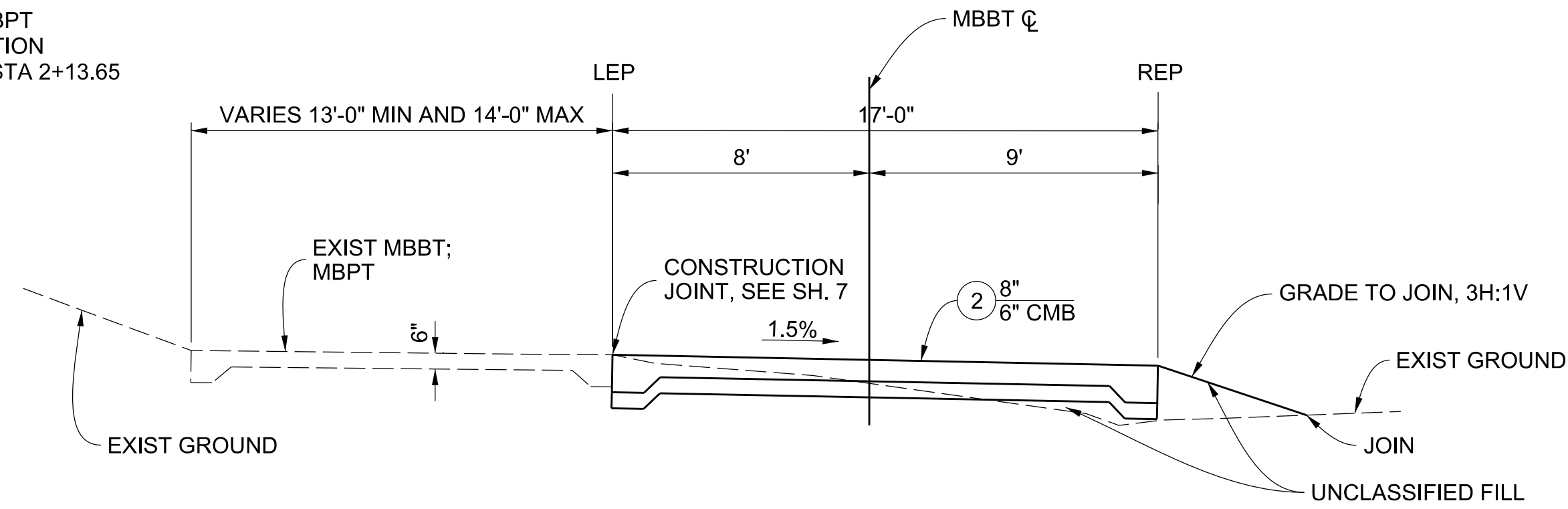
(Edit as needed or delete if not applicable, examples shown below)

	Existing topography	Proposed improvements
Curb	---	---
Pavement	Concrete	=====
	AC	=====
Barricade		=====
Guy pole	⊕	
Guy Wire	⊖	
Manhole	⊙	
Valve	⊙	
Vault	⊠	
Brick (Block) Wall		=====
Concrete Wall	=====	=====
Top of Slope		⌋
Toe of Slope		⌋

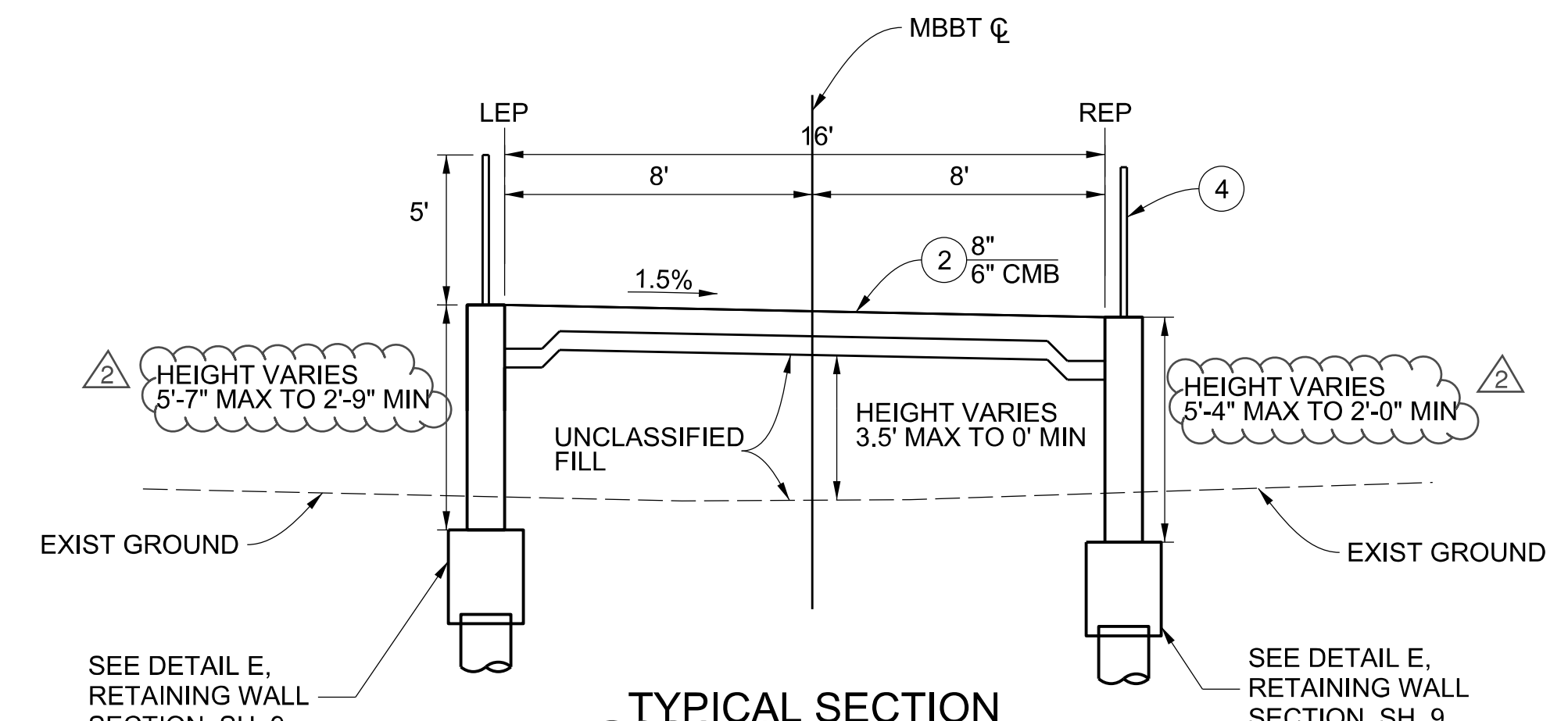
CADD PROJECT FILE NAME  
 \$FILES\$  
 CHECKER  
 J. LI  
 DESIGNER  
 D. TRAN  
 DRAFTER  
 D. LOPEZ

DRAWING NUMBER:					COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS		
(MARK AS-BUILT HERE)					<b>MARVIN BRAUDE BEACH TRAIL</b> GAP CLOSURE CONSTRUCTION, GENERAL NOTES PROJECT ID NO. RDC0015071		
DATE	MK	DESCRIPTION			DWG	PH086765	SHEET 2 OF 26
		REVISIONS			PROJECT ENGINEER		

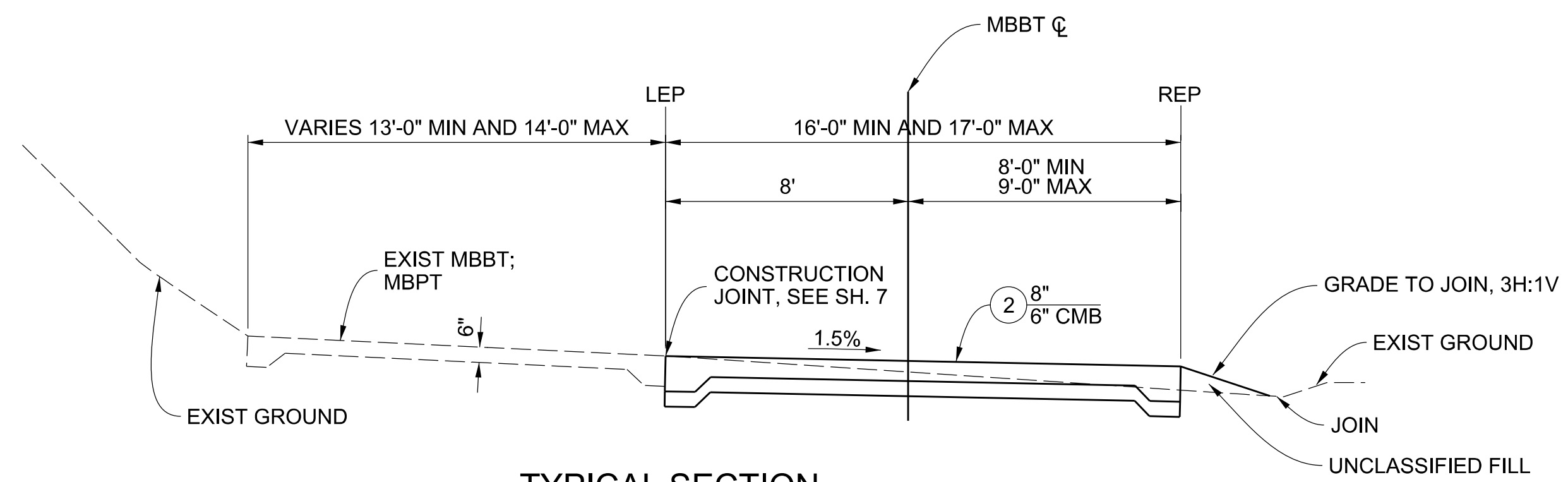
NOTE: SEE MBPT  
TYPICAL SECTION  
STA 0+00 TO STA 2+13.65  
ON SH. 7



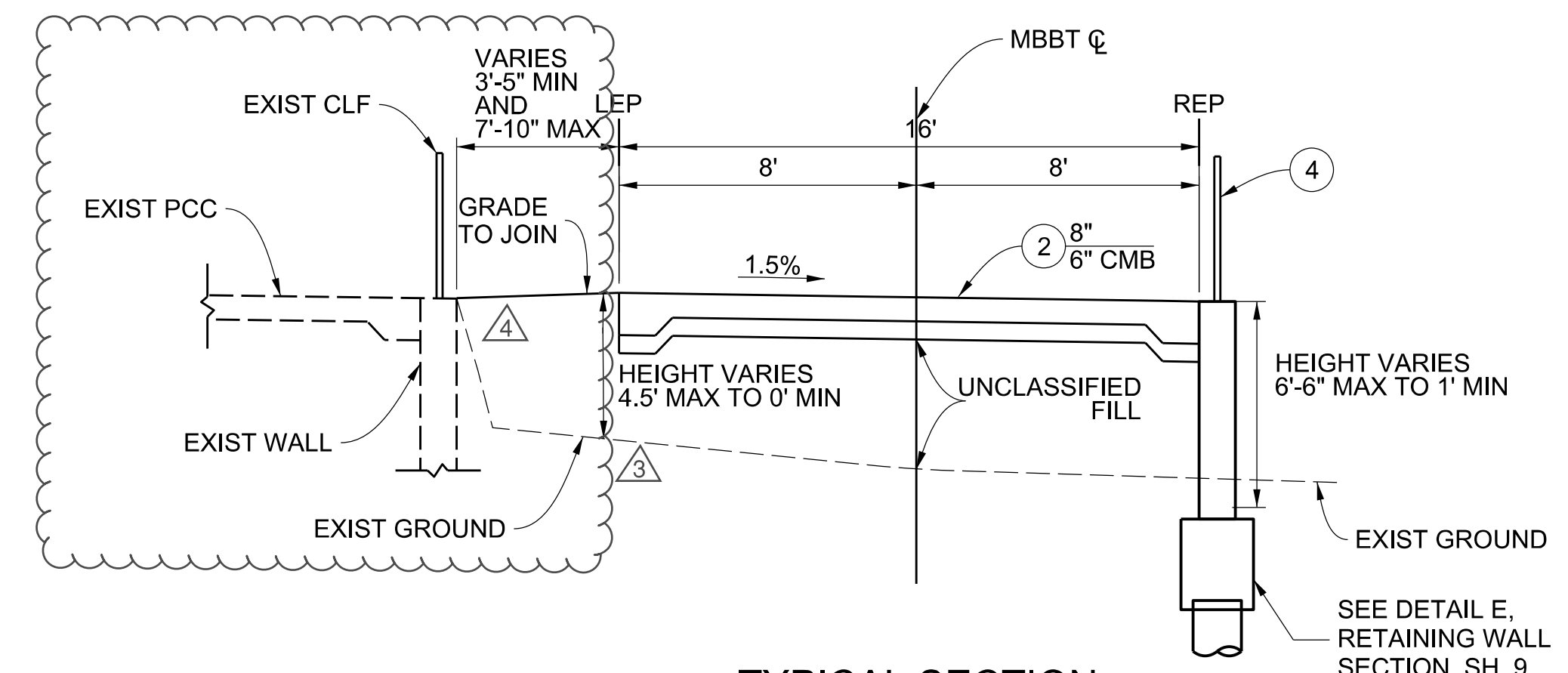
TYPICAL SECTION  
STA 2+13.65 TO STA 16+26.98  
STA 22+53.50 TO STA 27+90.64  
STA 29+87.61 TO STA 32+08.91  
SCALE 1/4" = 1'-0"



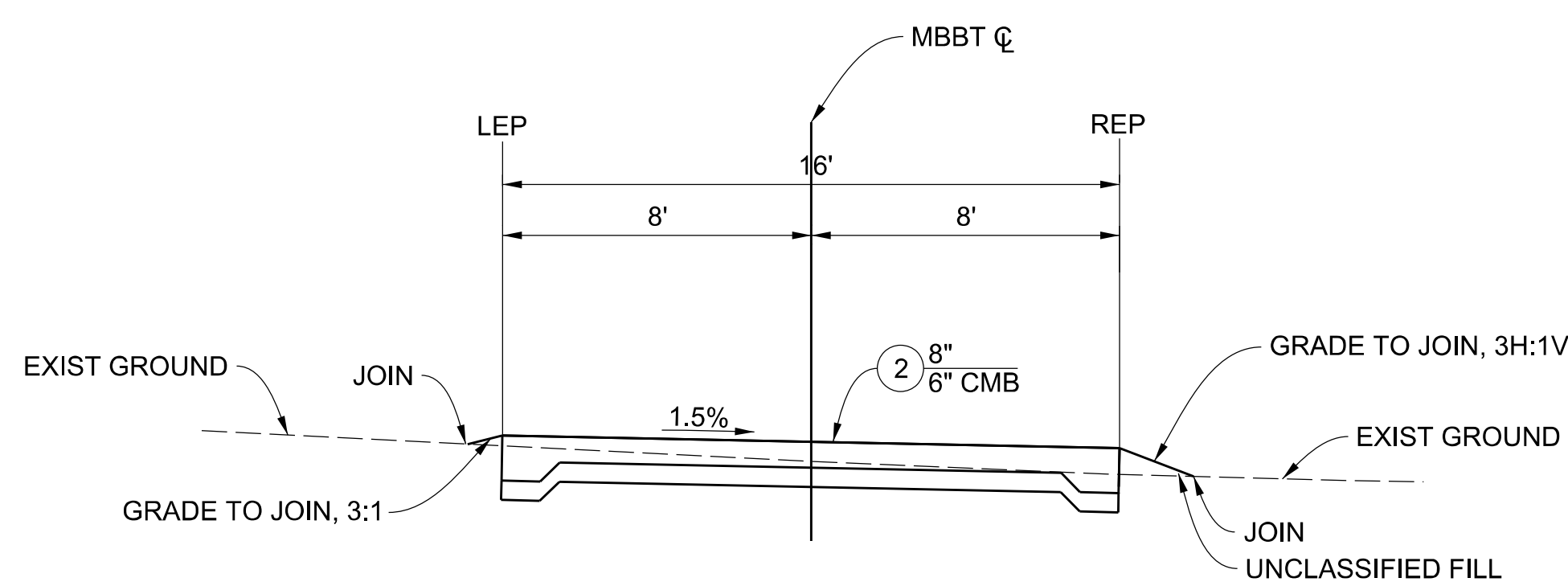
TYPICAL SECTION  
STA 19+61.96 TO STA 20+19.21  
NOT TO SCALE



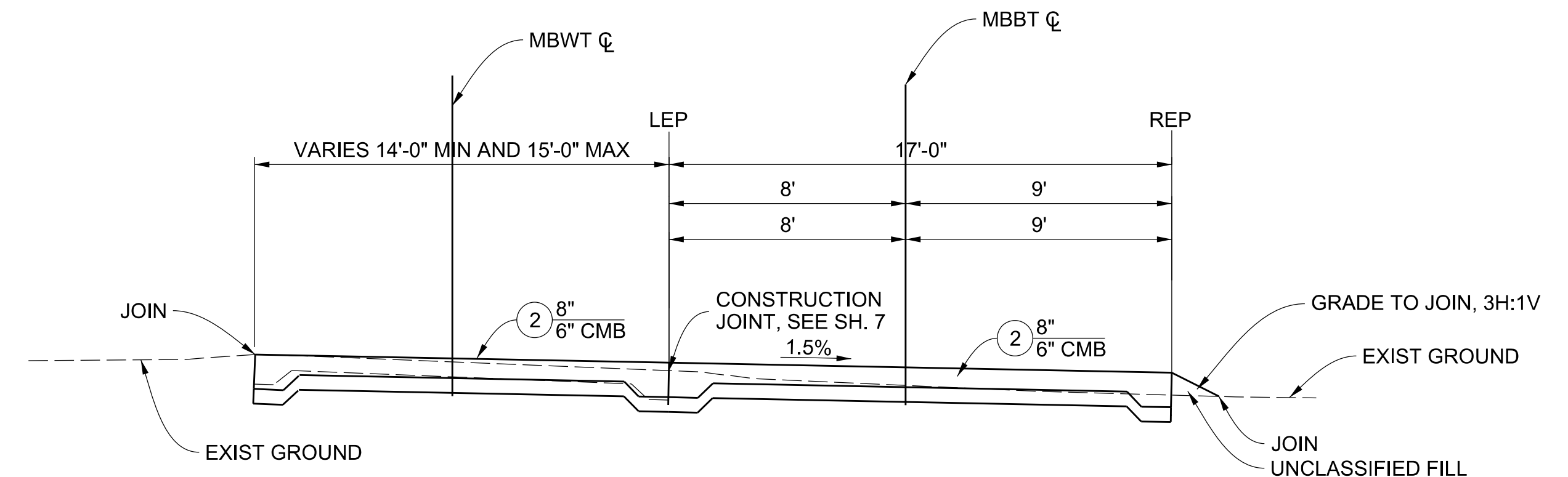
TYPICAL SECTION  
STA 16+26.98 TO STA 16+54.37  
STA 22+01.83 TO STA 22+53.50  
SCALE 1/4" = 1'-0"



TYPICAL SECTION  
STA 20+76.57 TO STA 22+01.83  
NOT TO SCALE



TYPICAL SECTION  
STA 16+54.37 TO STA 19+10.05  
STA 19+28.27 TO STA 19+61.96  
SCALE 1/4" = 1'-0"

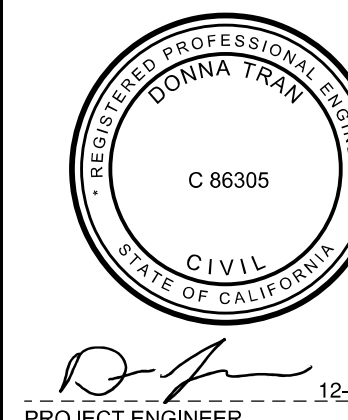


TYPICAL SECTION  
STA 27+90.64 TO STA 29+87.61  
SCALE 1/4" = 1'-0"

CADD PROJECT FILE NAME: \$FILES\$  
CHECKER: J. LI  
DESIGNER: D. TRAN  
DRAFTER: D. LOPEZ

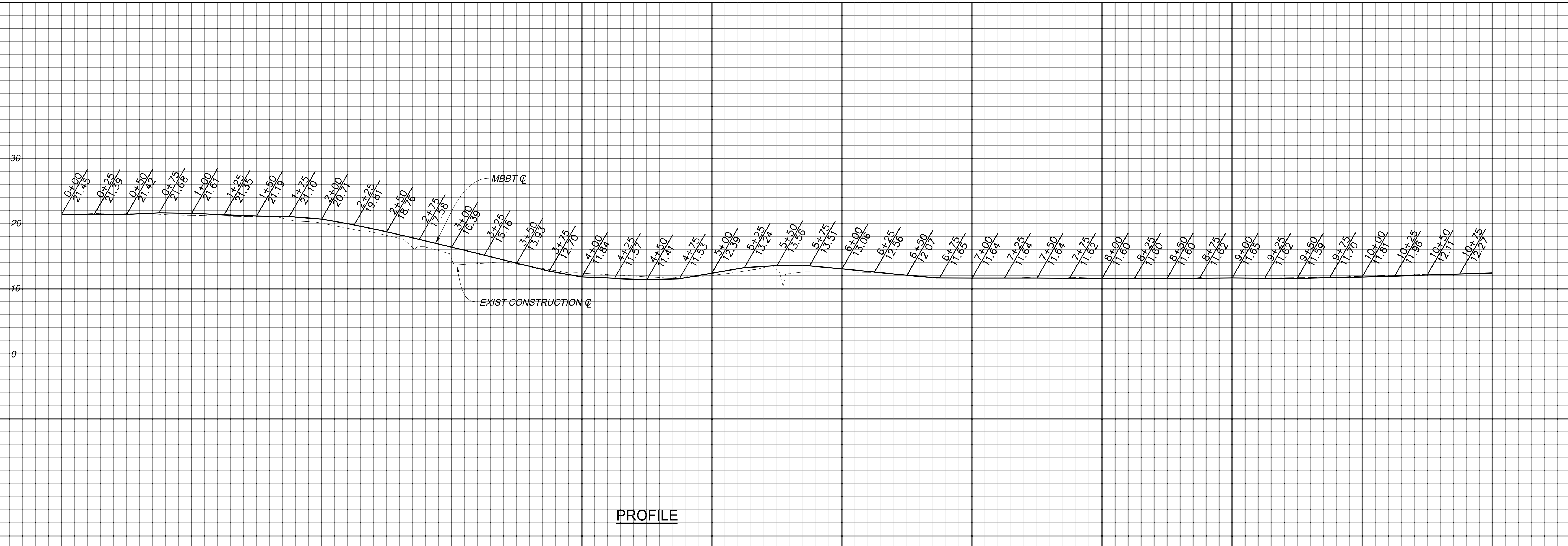
SEE SH. 10 FOR  
STA 19+10.05 TO STA 19+28.27

DRAWING NUMBER:	8/29/2023	AS-BUILT PLANS
	4/12/22	4 GRADE TO MEET EXST PATH
	4/12/22	3 REMOVED NE RETAINING WALL
	4/12/22	2 REVISED WALL HEIGHT RANGE
	4/12/22	1 REVISED STATIONING
(MARK AS-BUILT HERE)	DATE	MK DESCRIPTION
		REVISIONS

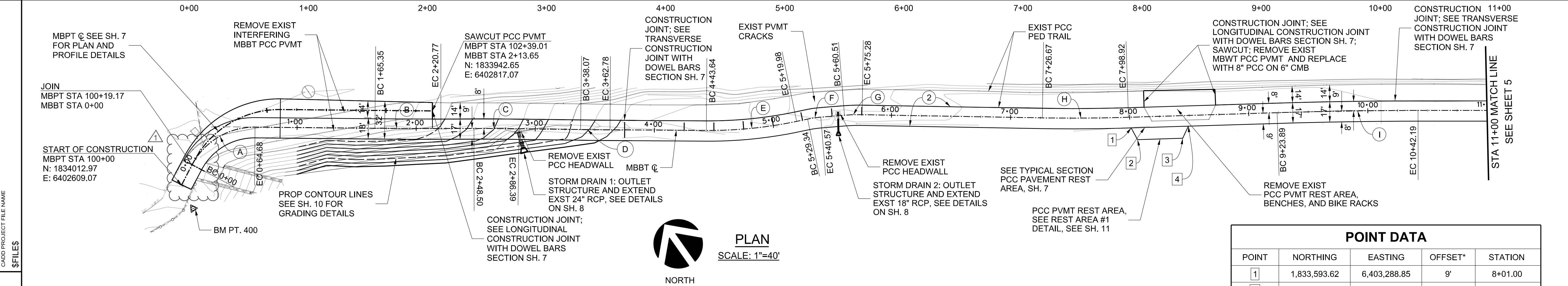


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
<b>MARVIN BRAUDE BEACH TRAIL</b> GAP CLOSURE TYPICAL SECTIONS PROJECT ID NO. RDC0015071	
DWG	PH086765
SHEET	3 OF 26

SCALE: HOR. 1"= 40"  
VERT. 1"= 8"



PROFILE



PLAN

SCALE: 1"=40'



CURVE DATA						
CURVE	RADIUS	CENTRAL ANGLE	LENGTH	TANGENT	PI NORTHING	PI EASTING
(A)	59'	62°48'39"	64.68'	36.02'	1,834,038.15	6,402,658.10
(B)	5000'	0°38'07"	55.43'	27.71'	1,833,942.37	6,402,791.72
(C)	2500'	0°52'06"	37.89'	18.94'	1,833,899.71	6,402,852.66
(D)	3500'	0°24'16"	24.71'	12.36'	1,833,851.10	6,402,919.91
(E)	360'	12°08'56"	76.33'	38.31'	1,833,774.79	6,403,027.04
(F)	90'	7°08'54"	11.23'	5.62'	1,833,753.70	6,403,075.99
(G)	150'	5°38'35"	14.77'	7.39'	1,833,737.00	6,403,104.39
(H)	1500'	2°45'35"	72.25'	36.13'	1,833,622.15	6,403,261.87

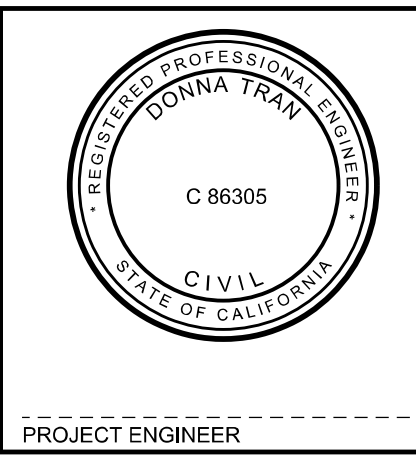
POINT DATA				
POINT	NORTHING	EASTING	OFFSET*	STATION
1	1,833,593.62	6,403,288.85	9'	8+01.00
2	1,833,582.52	6,403,287.53	19'	8+06.00
3	1,833,561.64	6,403,319.27	19'	8+44.00
4	1,833,567.24	6,403,328.95	9'	8+49.00

\* NOTE: OFFSET IS FROM MBBT CENTERLINE OF ALIGNMENT

BENCH MARK: PT. 400 EL. 22.66  
N 1,833,991.2897  
E 6,402,605.6545

CADD PROJECT FILE NAME: \$FILES\$  
 CHECKER: J. LI  
 DESIGNER: D. TRAN  
 DRAFTER: D. LOPEZ

DRAWING NUMBER:	
(MARK AS-BUILT HERE)	8/29/2023  SEE SHEET 27 FOR REVISED BIKE PATH ENTRANCE WITH PIPE BOLLARDS 8/29/2023 AS-BUILT PLANS DATE MK DESCRIPTION REVISIONS

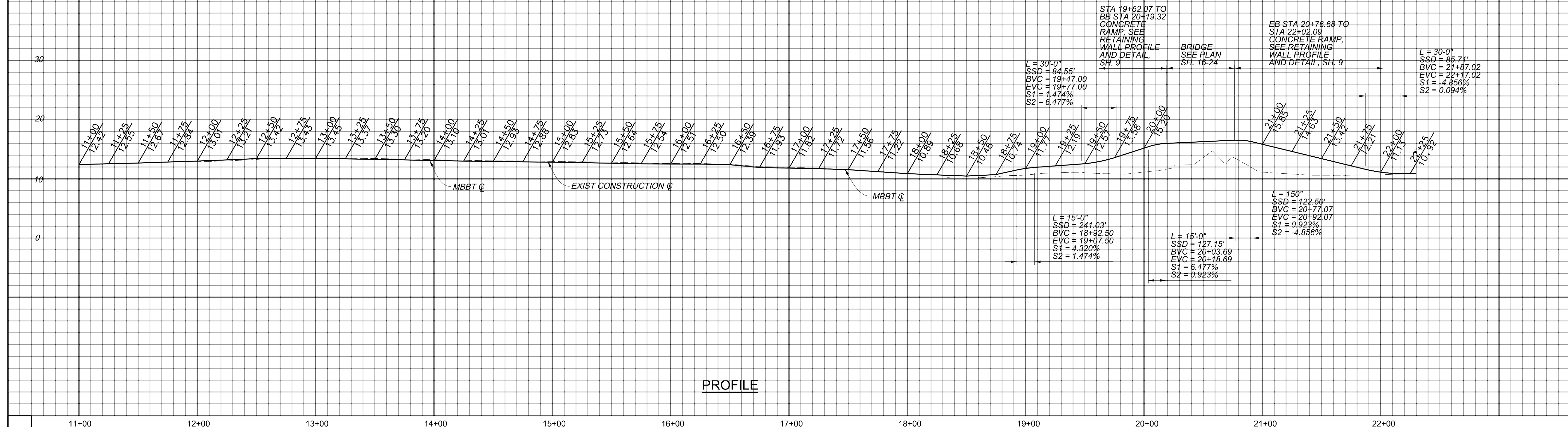


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

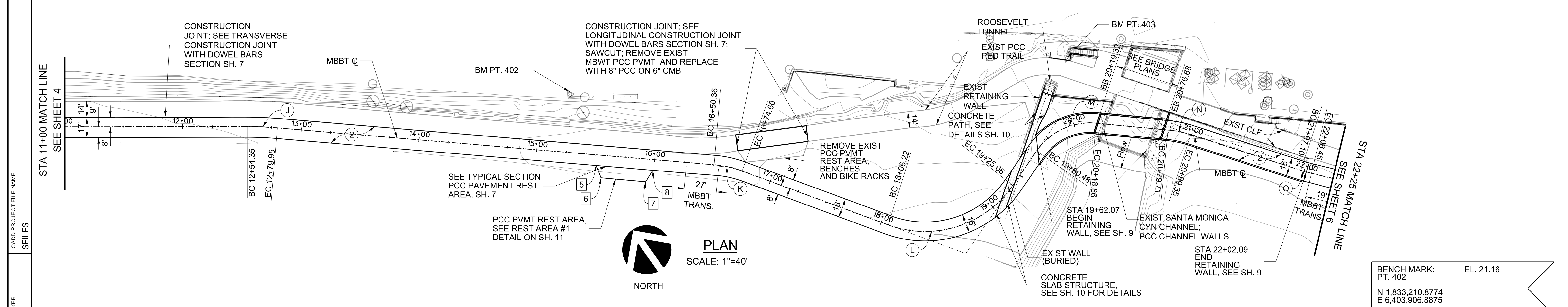
**MARVIN BRAUDE BEACH TRAIL**  
GAP CLOSURE  
MBBT PLAN AND PROFILE - STA 0+00 TO STA 11+00  
PROJECT ID NO. RDC0015071

DWG PH086765 SHEET 4 OF 26

SCALE: HOR. 1"= 40"  
VERT. 1"= 8"



PROFILE



PLAN  
SCALE: 1"=40'

**CURVE DATA**

CURVE	RADIUS	CENTRAL ANGLE	LENGTH	TANGENT	PI NORTHING	PI EASTING
(I)	4000'	1°41'41"	118.31'	59.16'	1,833,501.08	6,403,445.87
(J)	300'	4°53'22"	25.60'	12.81'	1,833,337.96	6,403,678.51
(K)	90'	63°39'43"	24.24'	12.19'	1,833,084.16	6,403,981.71
(L)	90'	63°39'43"	118.83'	69.88'	1,832,908.34	6,404,103.17
(M)	55'	60°49'28"	58.39'	32.28'	1,832,956.04	6,404,232.21
(N)	90'	12°30'00"	19.63'	9.86'	1,832,889.11	6,404,310.48
(O)	120'	4°27'52"	9.35'	4.68'	1,832,799.39	6,404,378.00

**POINT DATA**

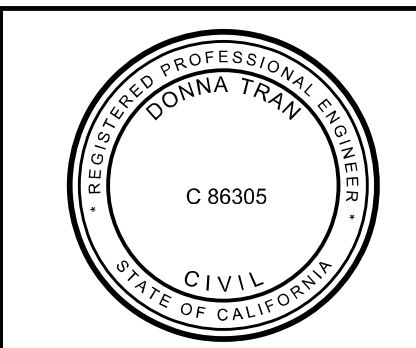
POINT	NORTHING	EASTING	OFFSET*	STATION
(5)	1,833,148.89	6,403,890.39	8.98'	15+50.98
(6)	1,833,138.03	6,403,887.75	19'	15+55.93
(7)	1,833,113.49	6,403,916.77	19.19'	15+93.93
(8)	1,833,117.99	6,403,927.26	9.0'	15+99.08

\* NOTE:  
OFFSET IS FROM  
CENTERLINE  
OF ALIGNMENT

BENCH MARK:  
PT. 402  
EL. 21.16  
N 1,833,210.8774  
E 6,403,906.8875

DRAFTER: D. LOPEZ  
 DESIGNER: D. TRAN  
 CHECKER: J. LI  
 \$FILES\$  
 CADD PROJECT FILE NAME

DRAWING NUMBER:		
(MARK AS-BUILT HERE)		
DATE	MK	DESCRIPTION
8/29/2023		AS-BUILT PLANS
REVISIONS		

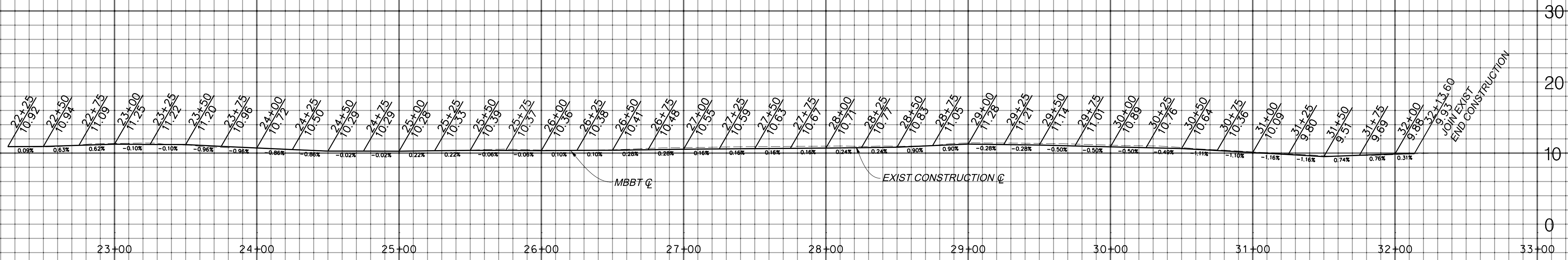


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
GAP CLOSURE  
MBBT PLAN AND PROFILE - STA 11+00 TO STA 22+25  
PROJECT ID NO. RDC0015071

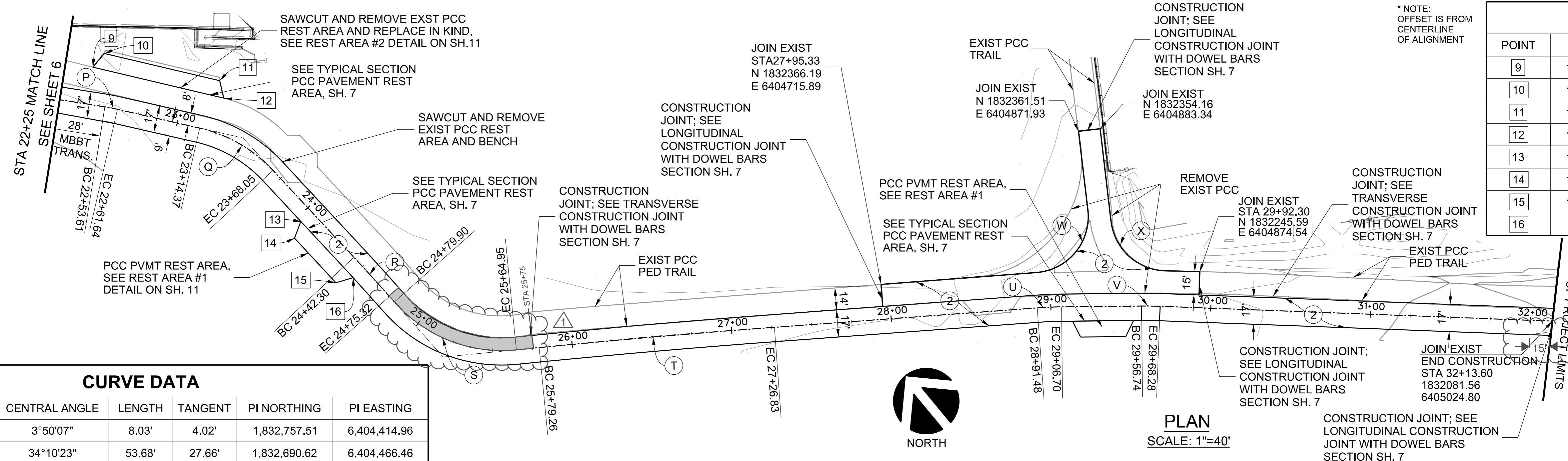
DWG \_\_\_\_\_ PH086765 SHEET 5 OF 26

SCALE: HOR. 1"= 40'  
VERT. 1"= 8"



PROFILE

22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00 33+00



\* NOTE:  
OFFSET IS FROM  
CENTERLINE  
OF ALIGNMENT

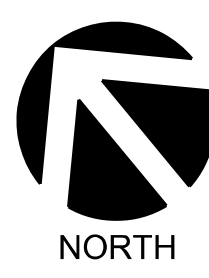
POINT DATA

POINT	NORTHING	EASTING	OFFSET*	STATION
9	1,832,784.38	6,404,422.35	23.32'	22+42.37
10	1,832,786.43	6,404,433.34	32.92'	22+48.10
11	1,832,727.46	6,404,478.04	31.77'	23+18.47
12	1,832,717.44	6,404,473.09	22.10'	23+22.79
13	1,832,627.33	6,404,461.23	9.0'	23+75.97
14	1,832,621.75	6,404,451.54	19.0'	24+08.25
15	1,832,583.82	6,404,453.78	19.02'	24+46.31
16	1,832,579.41	6,404,464.06	9.0'	24+51.32

CURVE DATA

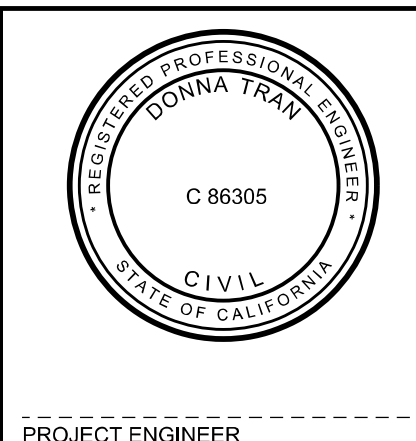
CURVE	RADIUS	CENTRAL ANGLE	LENGTH	TANGENT	PI NORTHING	PI EASTING
(P)	120'	3°50'07"	8.03'	4.02'	1,832,757.51	6,404,414.96
(Q)	90'	34°10'23"	53.68'	27.66'	1,832,690.62	6,404,466.46
(R)	1300'	1°27'19"	33.02'	16.51'	1,832,572.41	6,404,473.52
(S)	90'	54°08'39"	85.05'	46.00'	1,832,505.36	6,404,475.83
(T)	6000'	1°24'33"	147.57'	73.79'	1,832,430.59	6,404,587.14
(U)	240'	3°38'00"	15.22'	7.61'	1,832,288.40	6,404,787.95
(V)	240'	2°45'17"	11.54'	5.77'	1,832,248.55	6,404,837.29
(W)	35'	92°22'31"	56.43'	36.48'	1,832,289.13	6,404,825.34
(X)	35'	81°46'32"	49.95'	30.30'	1,832,279.64	6,404,835.37

PLAN  
SCALE: 1"=40'



CAD PROJECT FILE NAME: \$FILES\$  
 CHECKER: J. LI  
 DESIGNER: D. TRAN  
 DRAFTER: D. LOPEZ

DRAWING NUMBER:	
(MARK AS-BUILT HERE)	8/29/2023  REPLACED EXT CONCRETE BIKE PATH 8/29/2023  AS-BUILT PLANS
DATE	8/29/2023
MK	
DESCRIPTION	
REVISIONS	



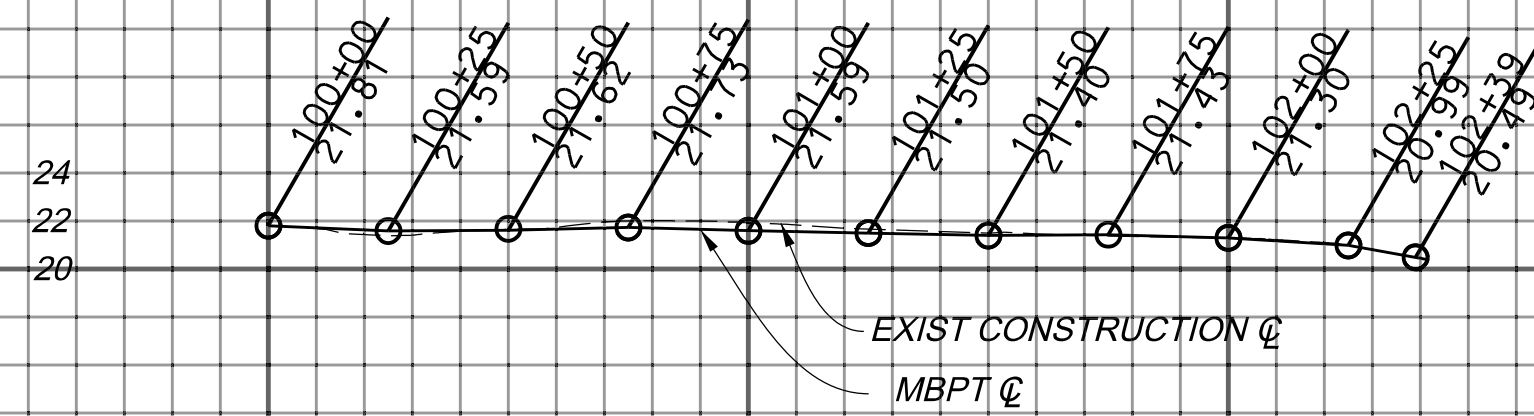
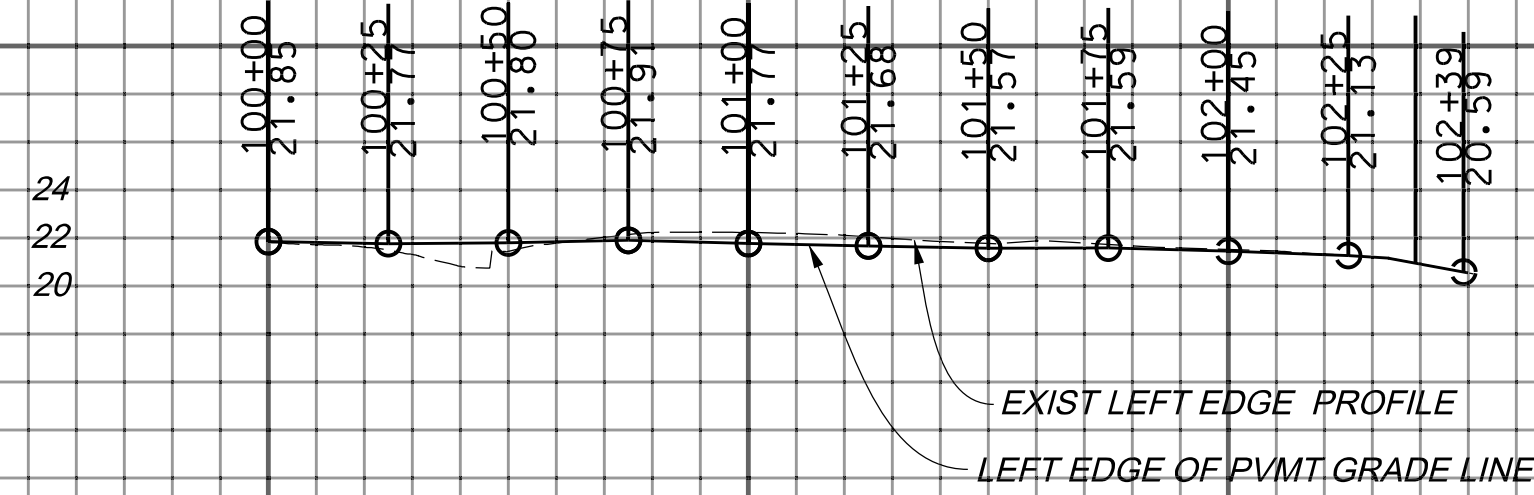
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
GAP CLOSURE

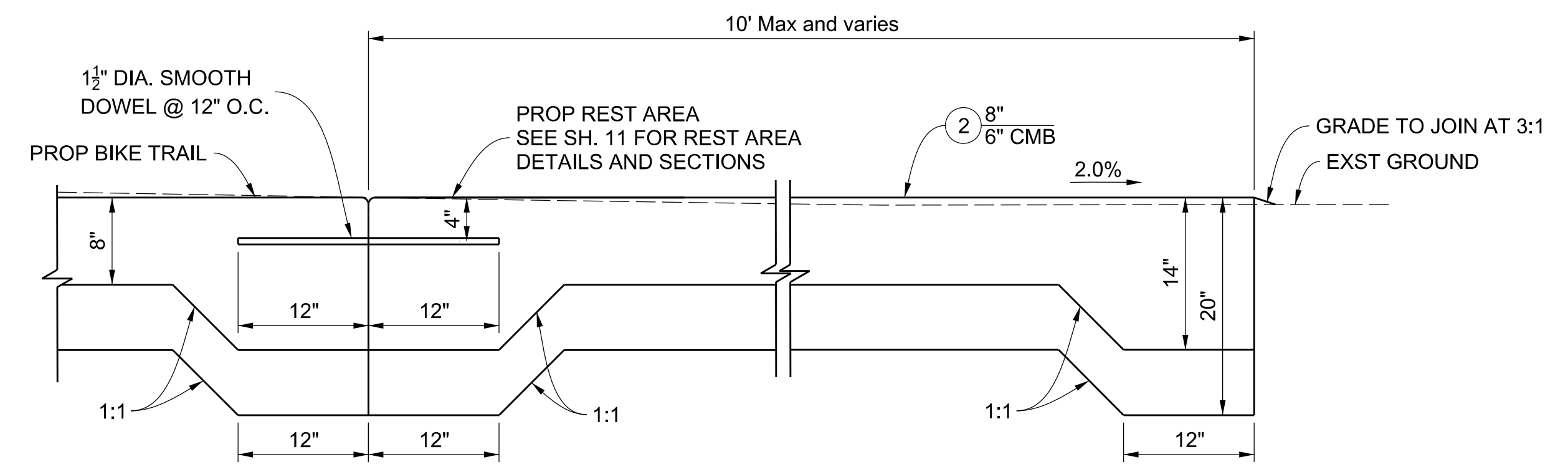
MBBT PLAN AND PROFILE - STA 22+25 TO STA 32+13.60  
PROJECT ID NO. RDC0015071

DWG PH086765 SHEET 6 OF 26

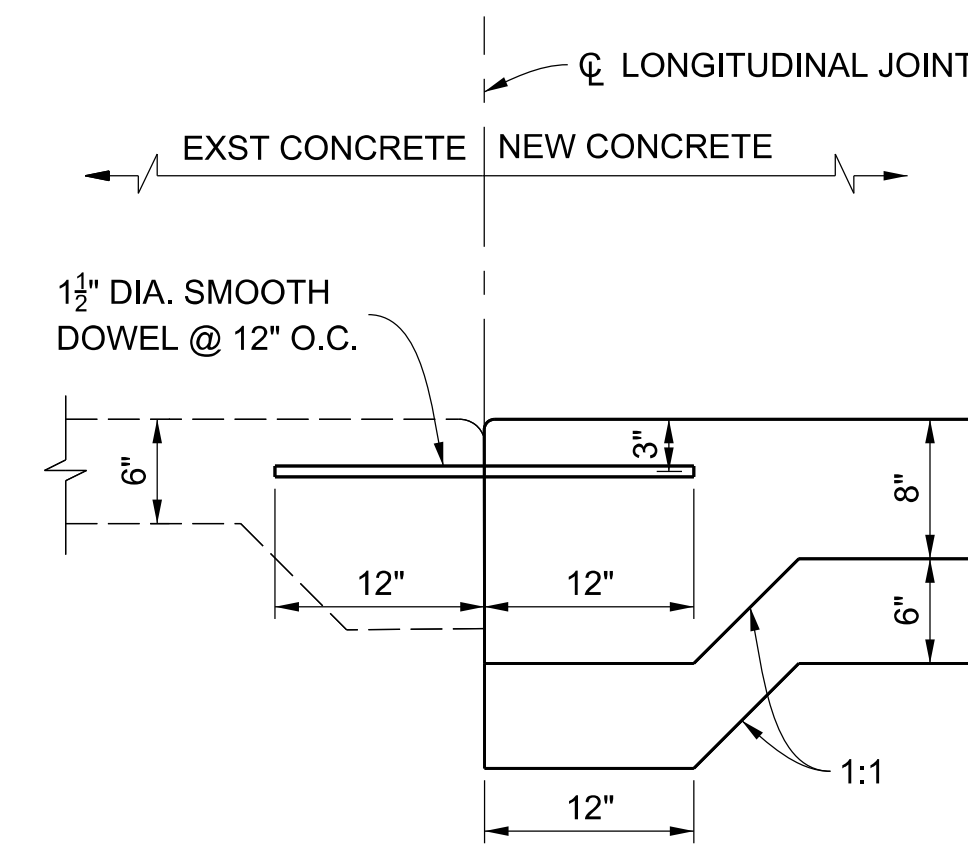
SCALE: HOR. 1"= 40"  
VERT. 1"= 8"



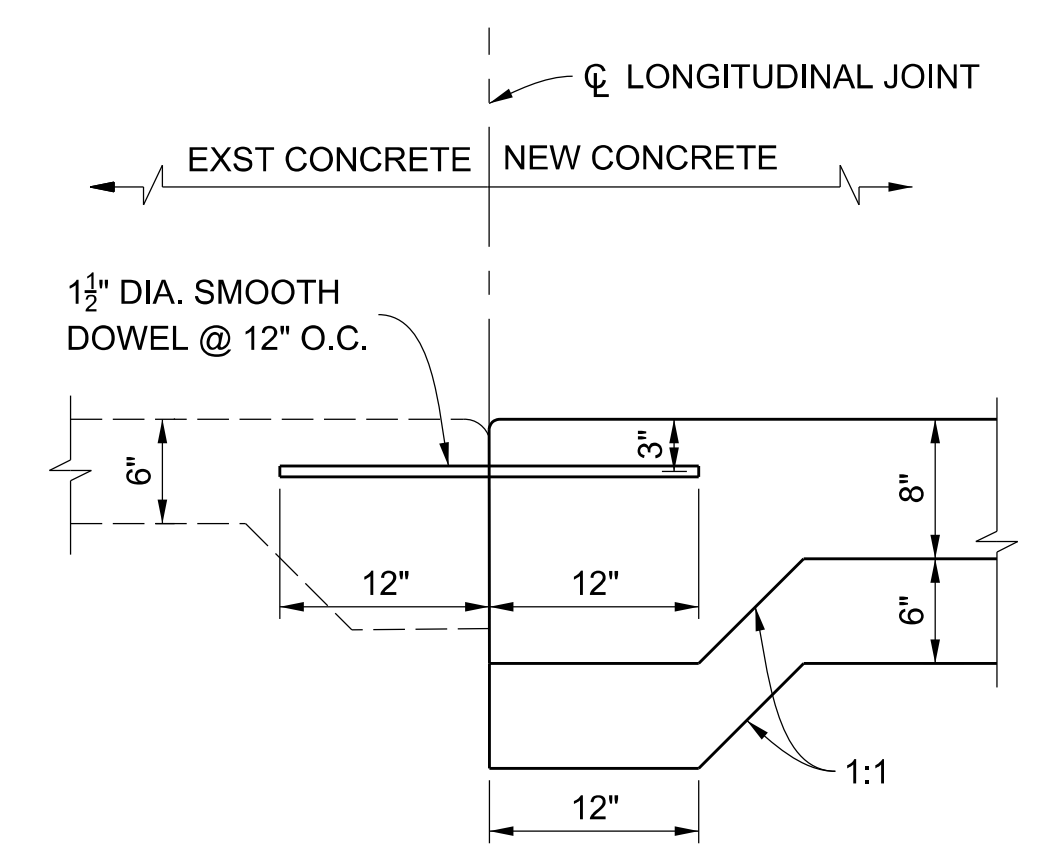
PROFILE



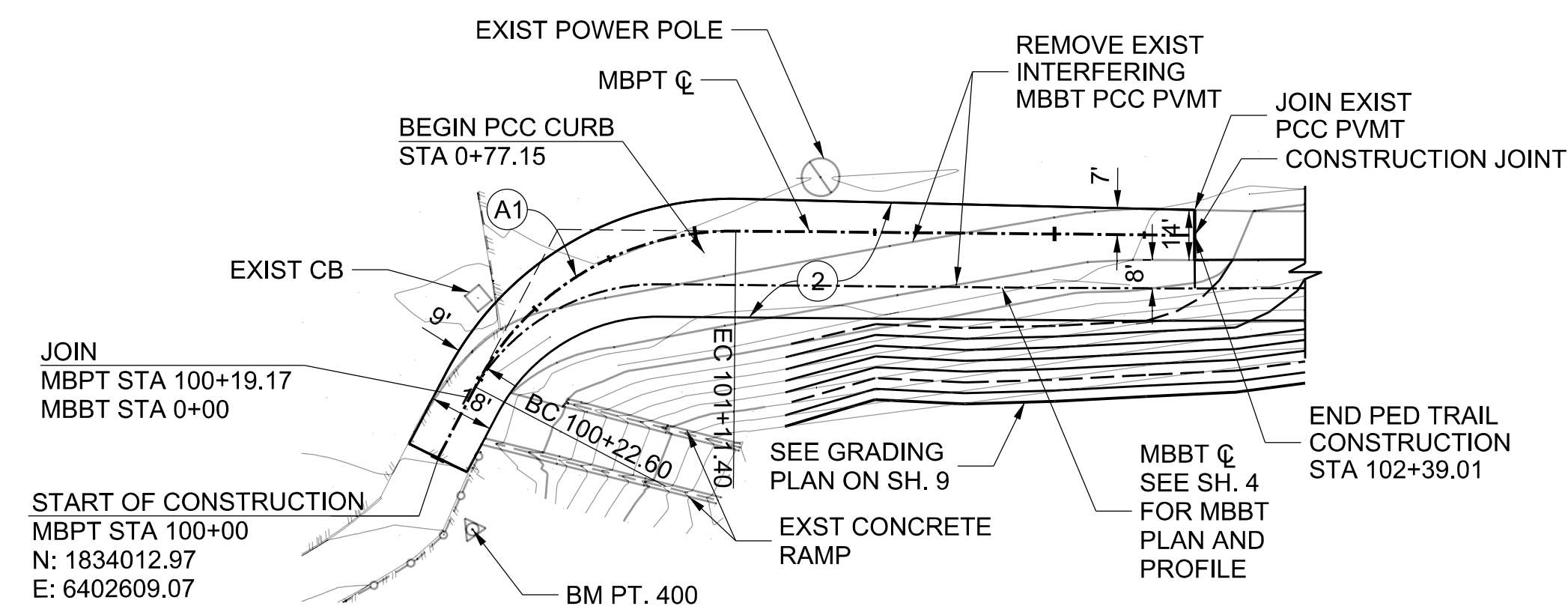
TYPICAL SECTION  
PCC PAVEMENT REST AREA  
STA 8+25, STA 15+75, STA 22+50 AND STA 24+00  
NOT TO SCALE



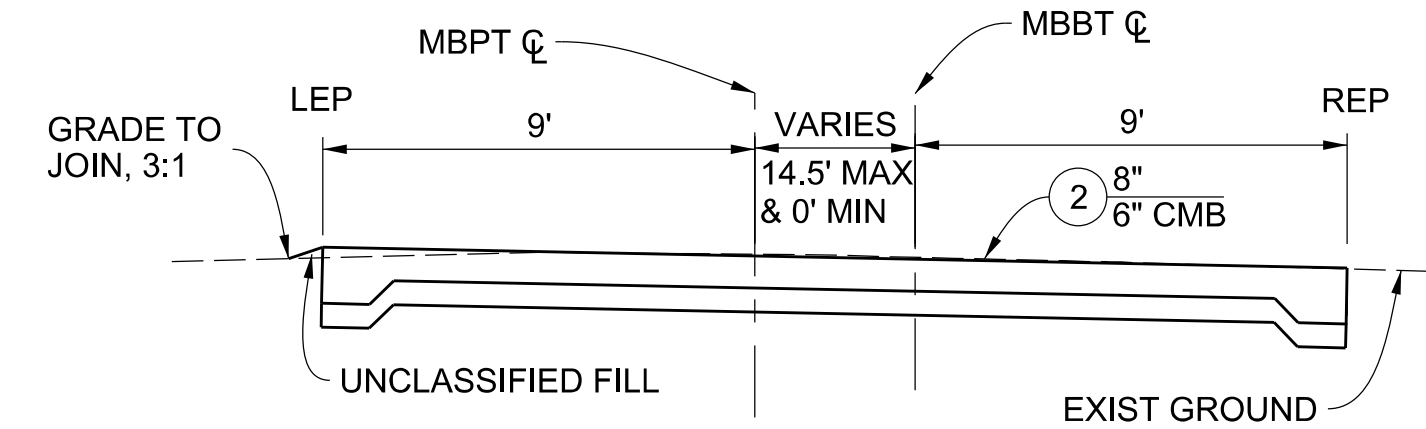
TRANSVERSE CONSTRUCTION JOINT  
WITH DOWEL BARS SECTION  
NOT TO SCALE



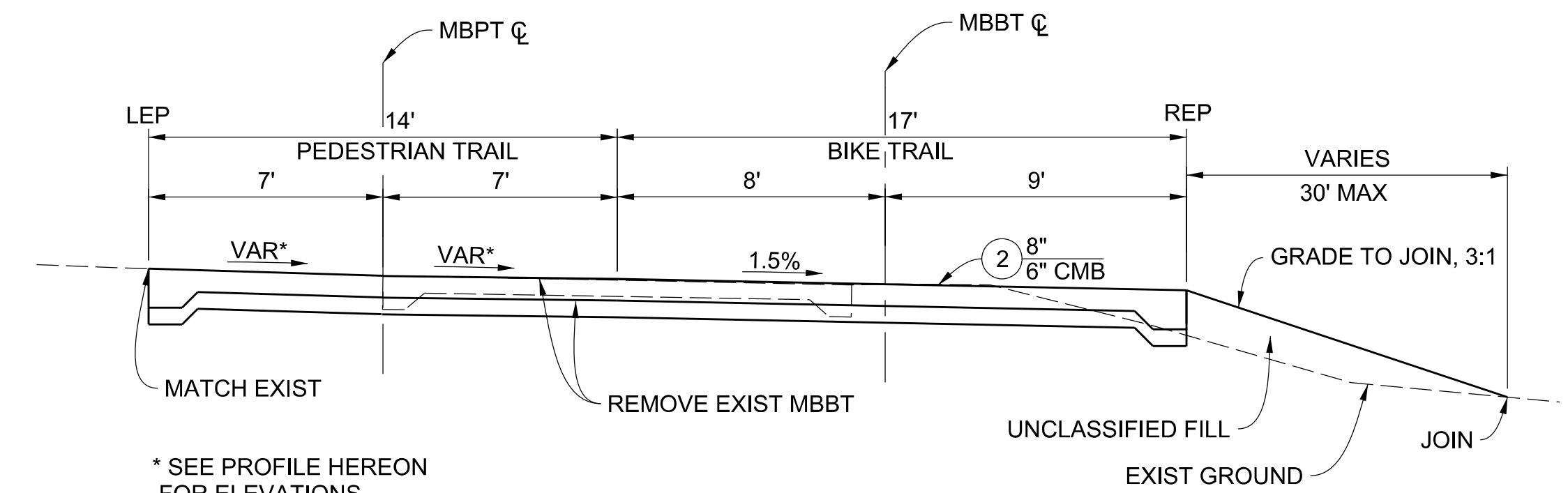
LONGITUDINAL CONSTRUCTION JOINT  
WITH DOWEL BARS SECTION  
NOT TO SCALE



PLAN  
SCALE: 1"=40"



TYPICAL SECTION  
MBPT STA 100+00 TO STA 101+02.08  
MBBT STA 0+00 TO STA 0+77.77  
NOT TO SCALE

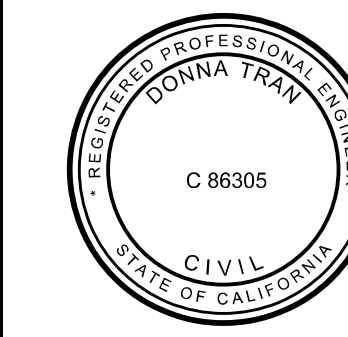


TYPICAL SECTION  
MBPT STA 101+02.08 TO STA 102+39.01  
MBBT STA 0+77.17 TO STA 2+13.65  
NOT TO SCALE

CURVE DATA						
CURVE	RADIUS	CENTRAL ANGLE	LENGTH	TANGENT	PI NORTHING	PI EASTING
(A1)	81'	62°48'52"	88.80'	49.46'	1,834,045.85	6,402,673.10

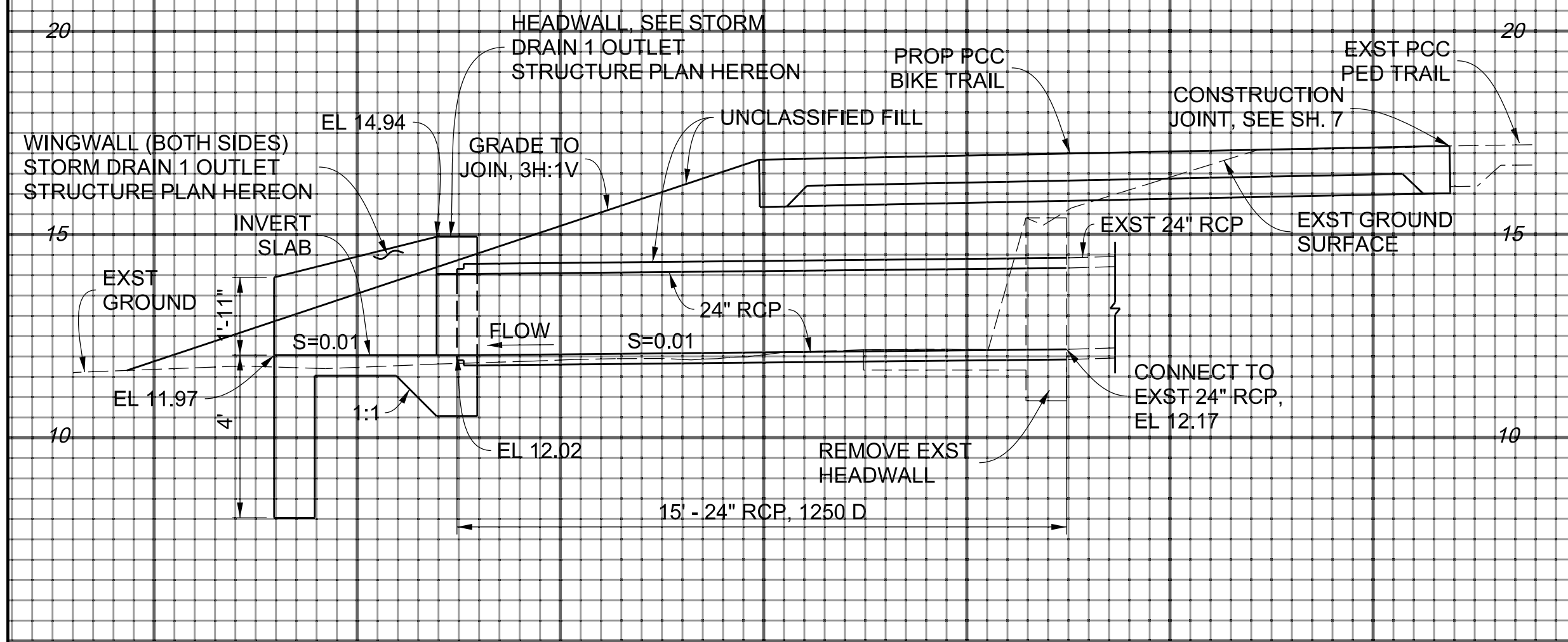
BENCH MARK:  
PT. 400 ELEV. 22.66  
N 1,833,991.2897  
E 6,402,605.6545

DRAWING NUMBER:	
(MARK AS-BUILT HERE)	
DATE	8/29/2023
REVISIONS	AS-BUILT PLANS
DATE	MK
DESCRIPTION	

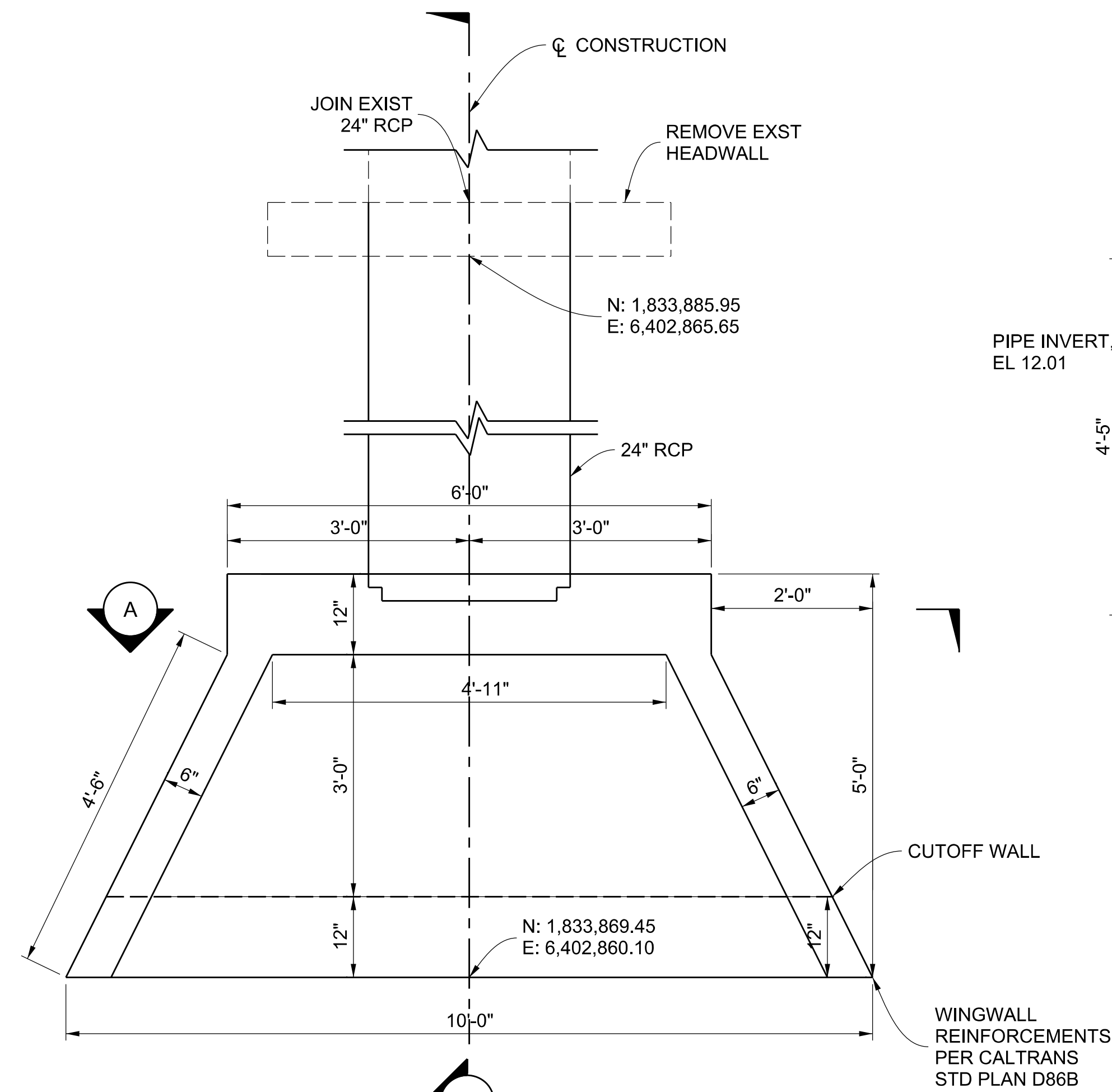


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
<b>MARVIN BRAUDE BEACH TRAIL</b> GAP CLOSURE	
MBPT PLAN, PROFILE, SECTIONS AND DETAILS	
PROJECT ID NO. RDC0015071	
DWG	PH086765
SHEET	7 OF 26

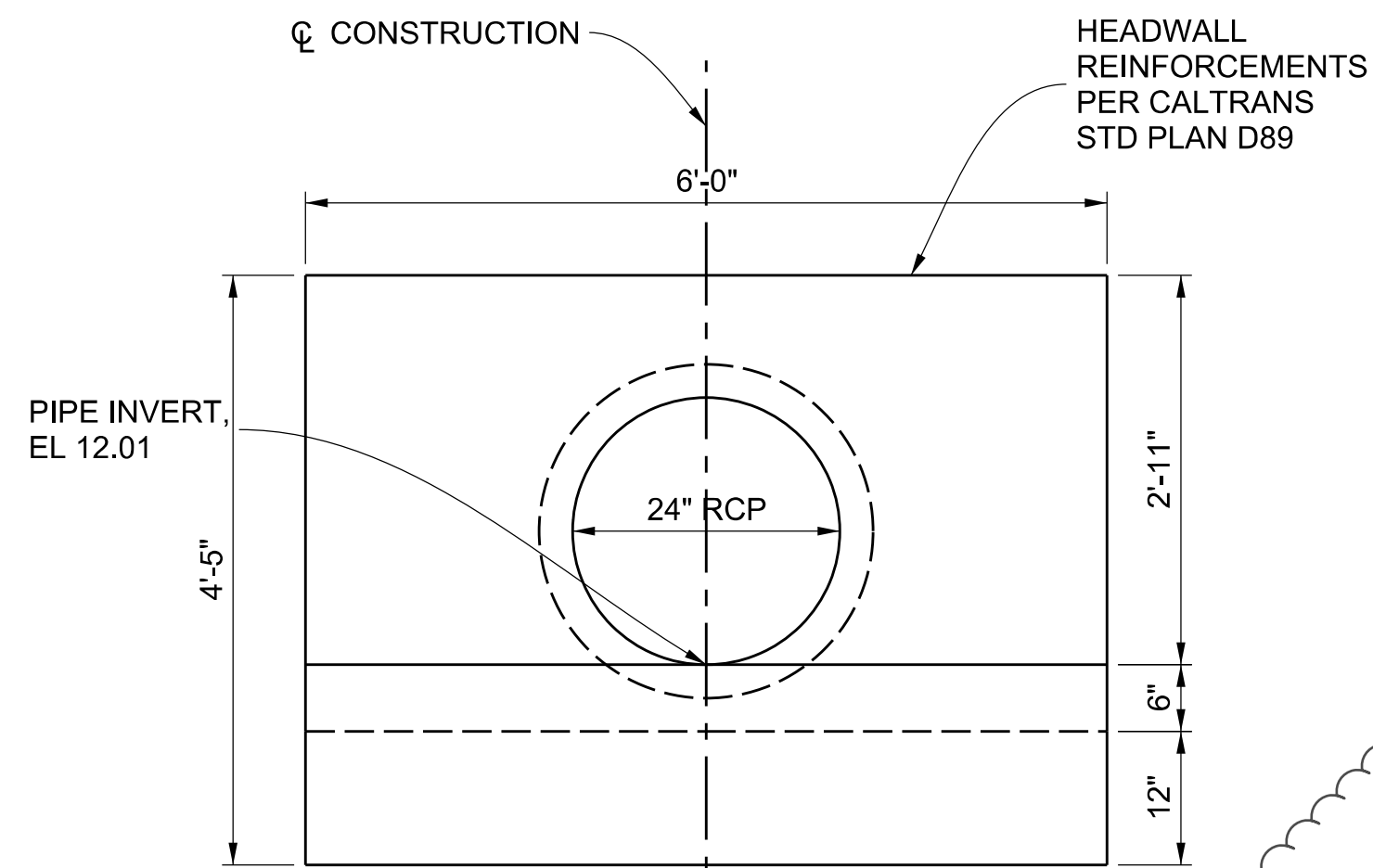
SCALE: HOR. 1"= 3'  
VERT. 1"= 3'



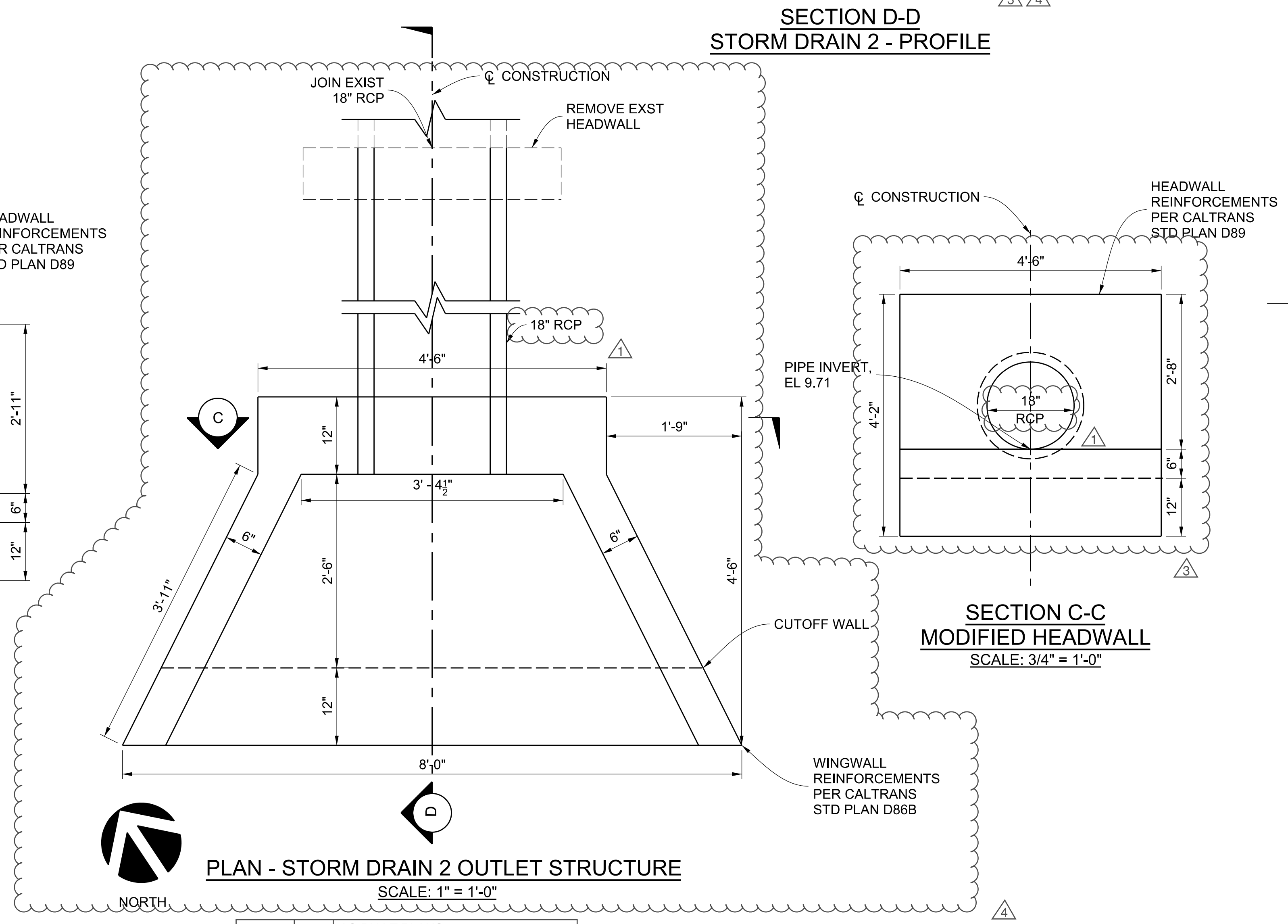
SECTION B-B  
STORM DRAIN 1 PROFILE



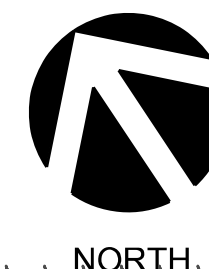
PLAN - STORM DRAIN 1 OUTLET STRUCTURE  
SCALE: 3/4" = 1'-0"



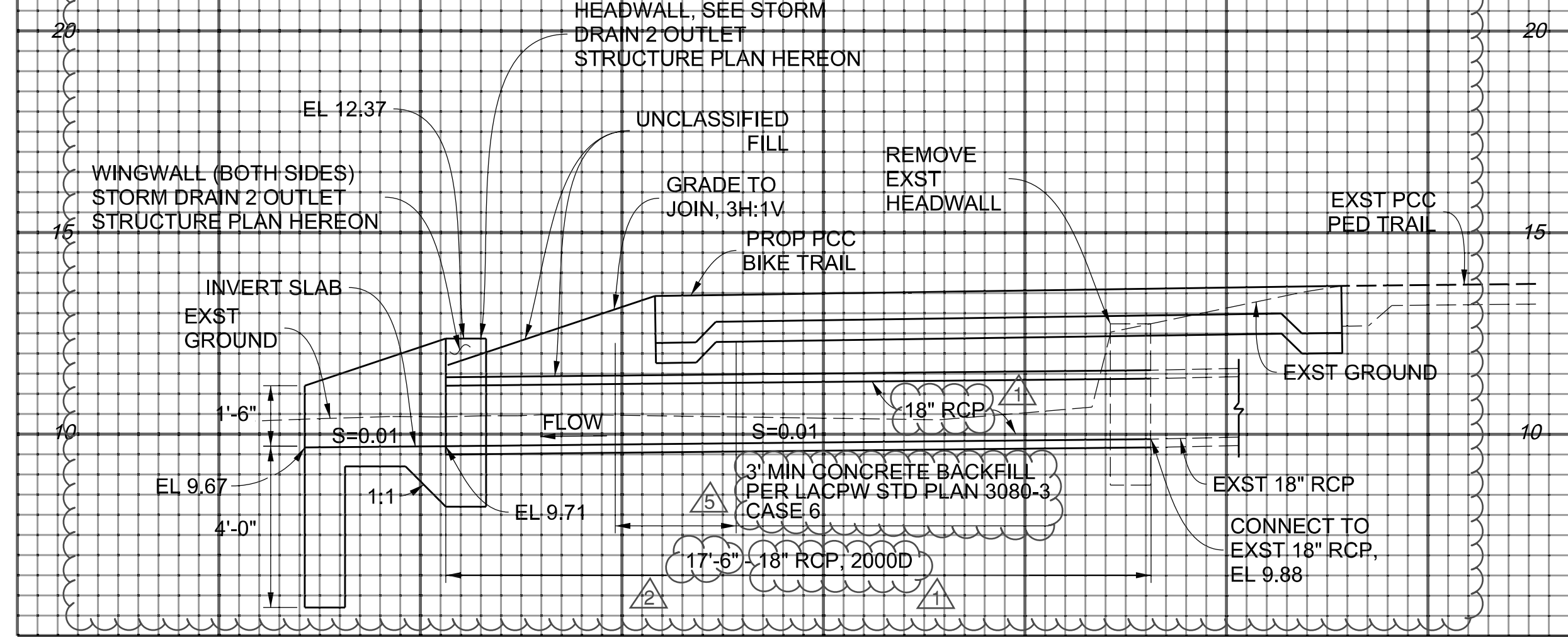
SECTION A-A  
MODIFIED HEADWALL  
SCALE: 3/4" = 1'-0"



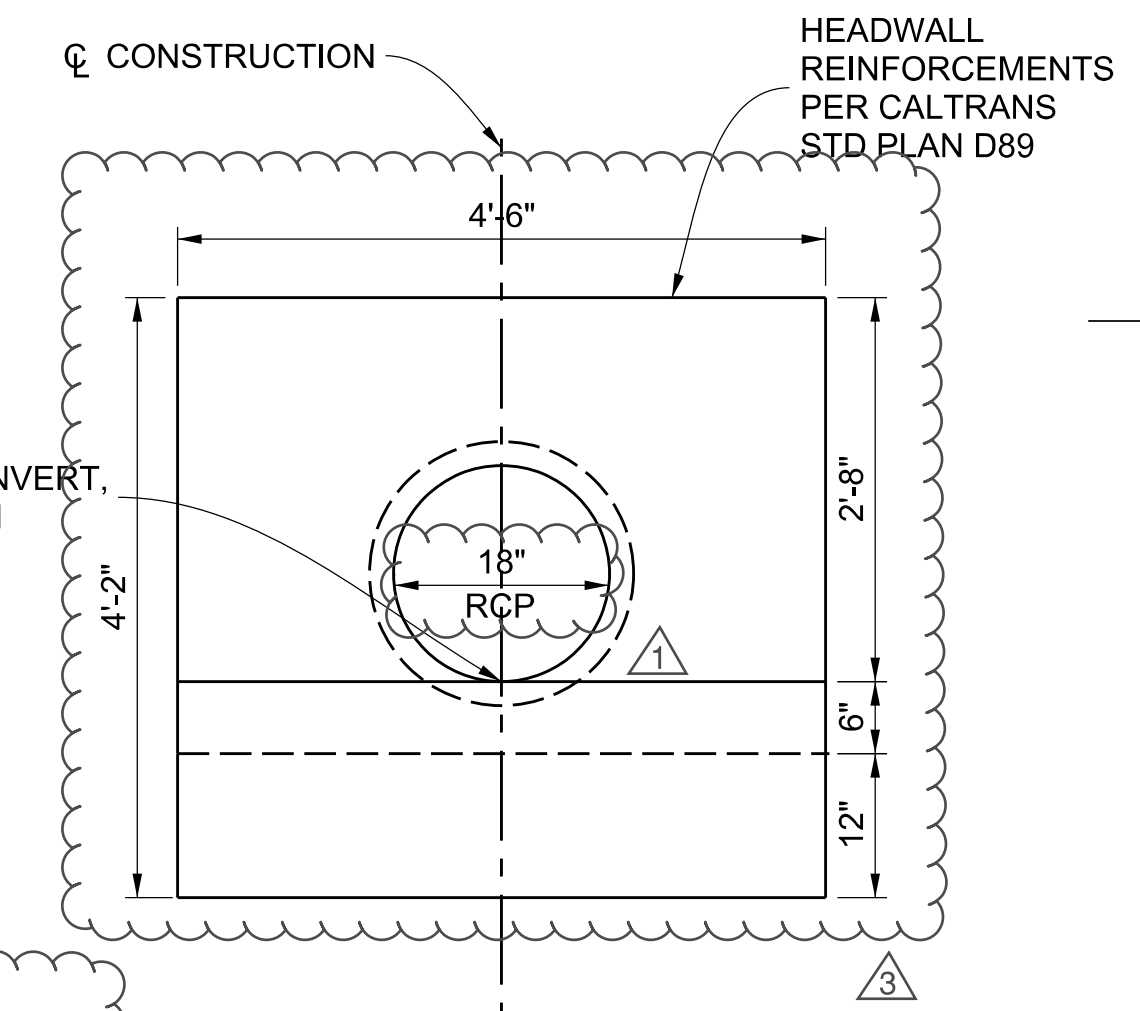
PLAN - STORM DRAIN 2 OUTLET STRUCTURE  
SCALE: 1" = 1'-0"



SCALE: HOR. 1"= 3'  
VERT. 1"= 3'



SECTION D-D  
STORM DRAIN 2 - PROFILE



SECTION C-C  
MODIFIED HEADWALL  
SCALE: 3/4" = 1'-0"

CAD PROJECT FILE NAME: \$FILES\$  
 CHECKER: J. LI  
 DESIGNER: D. TRAN  
 DRAFTER: D. LOPEZ

DATE	BY	DESCRIPTION
8/29/2023		AS-BUILT PLANS
5/28/22	5	ADDED CONCRETE BACKFILL
5/28/22	4	REV. SD 2 OUTLET STRUCTURE DIM.
5/28/22	3	REV. MOD. HEADWALL DIMENSIONS
5/28/22	2	REVISED RCP LENGTH
5/28/22	1	REVISED RCP SIZE
DATE	MK	DESCRIPTION
REVISIONS		

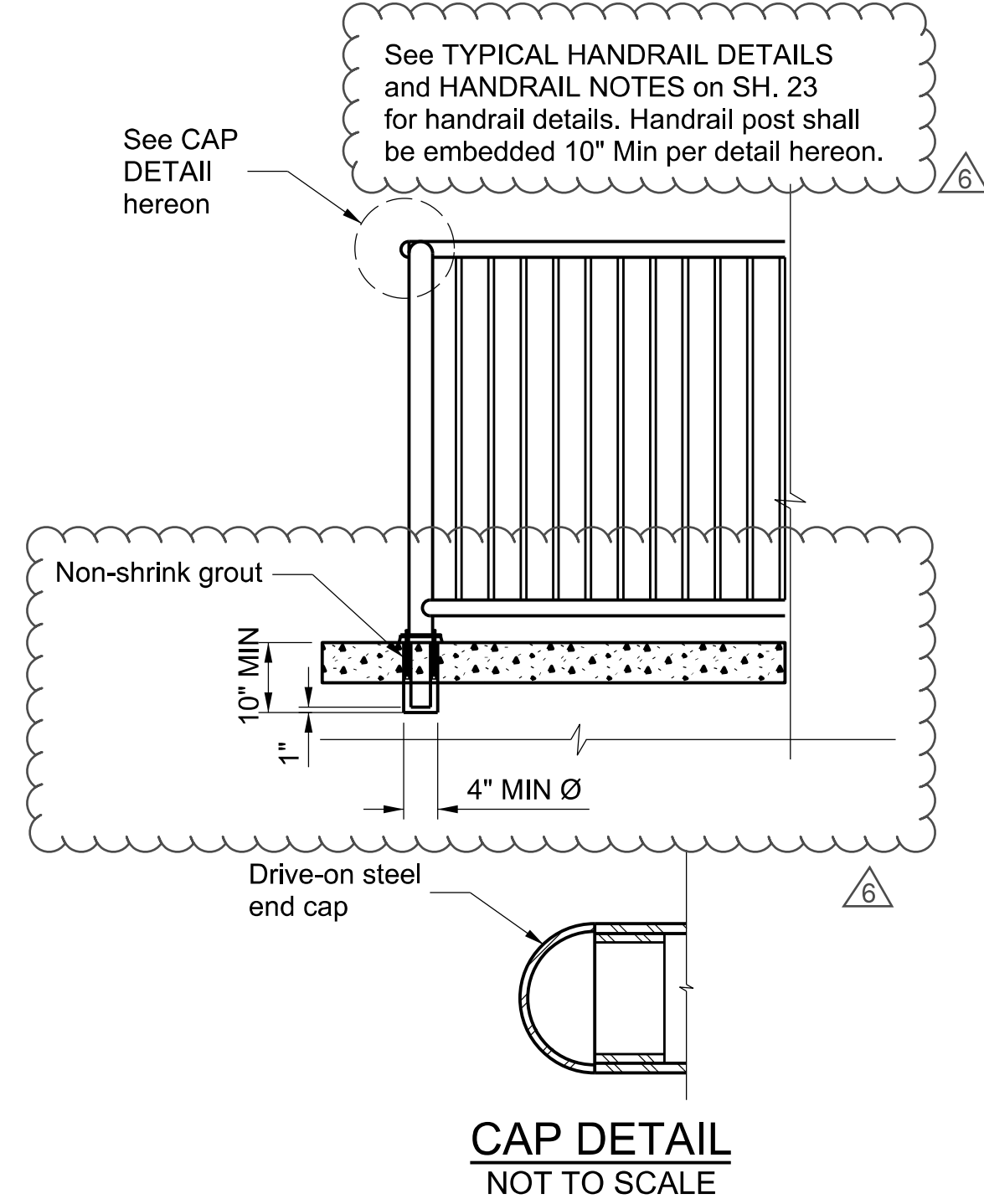
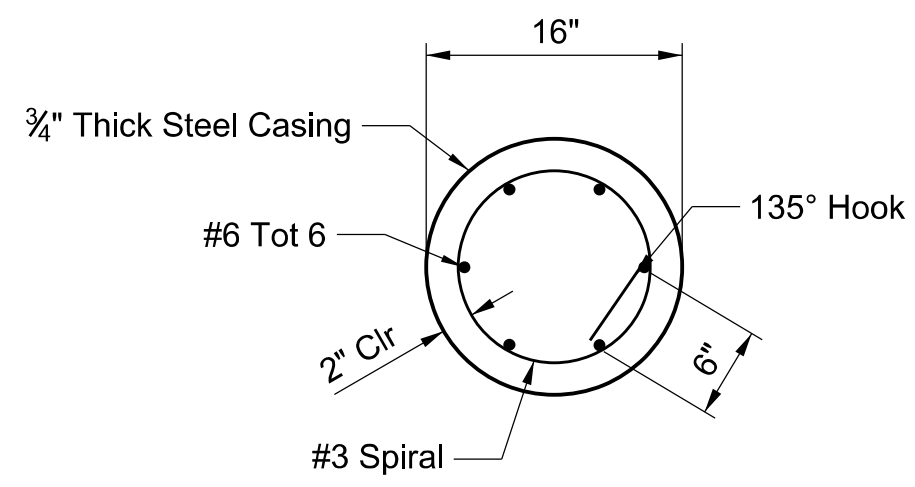
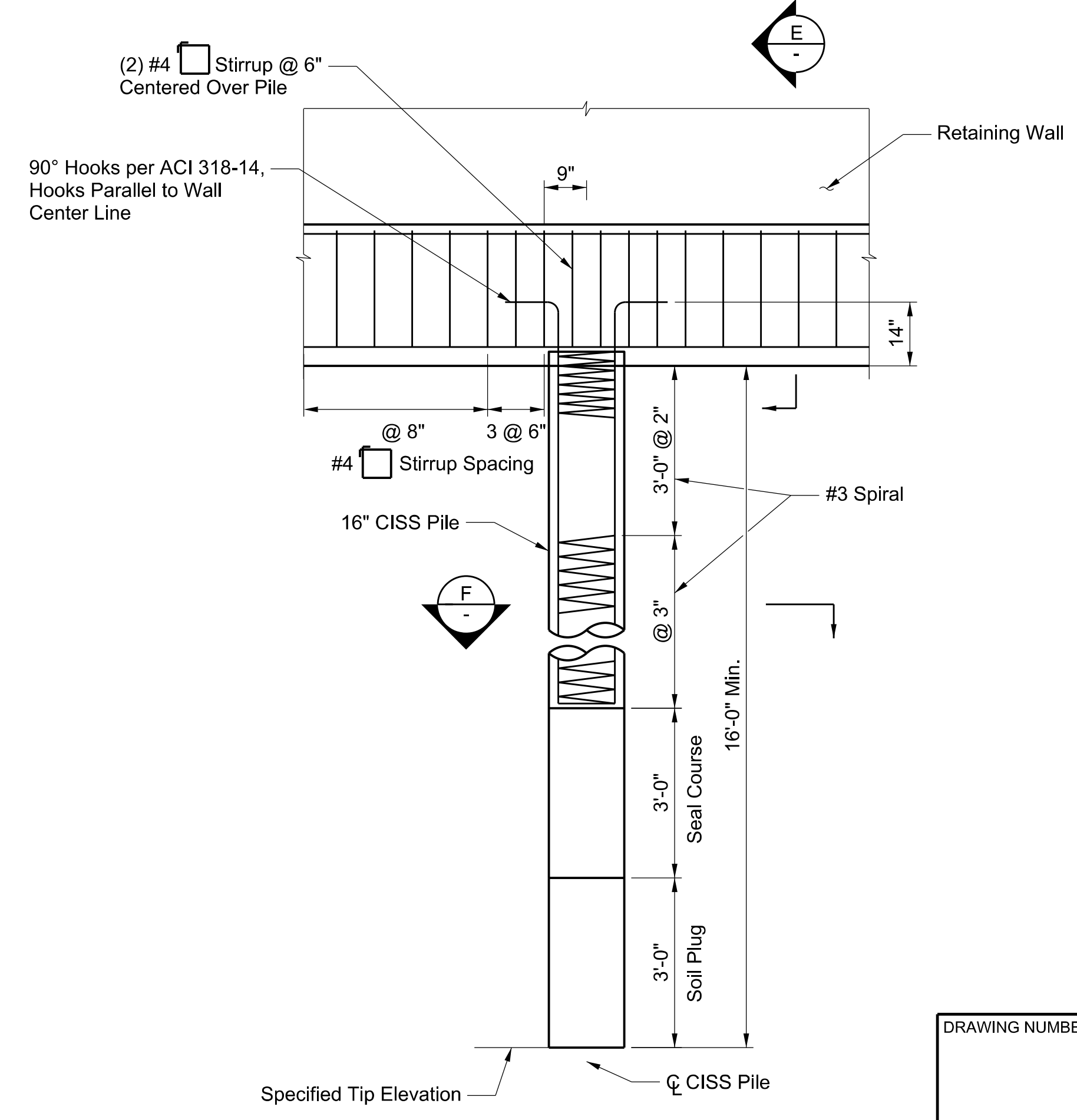
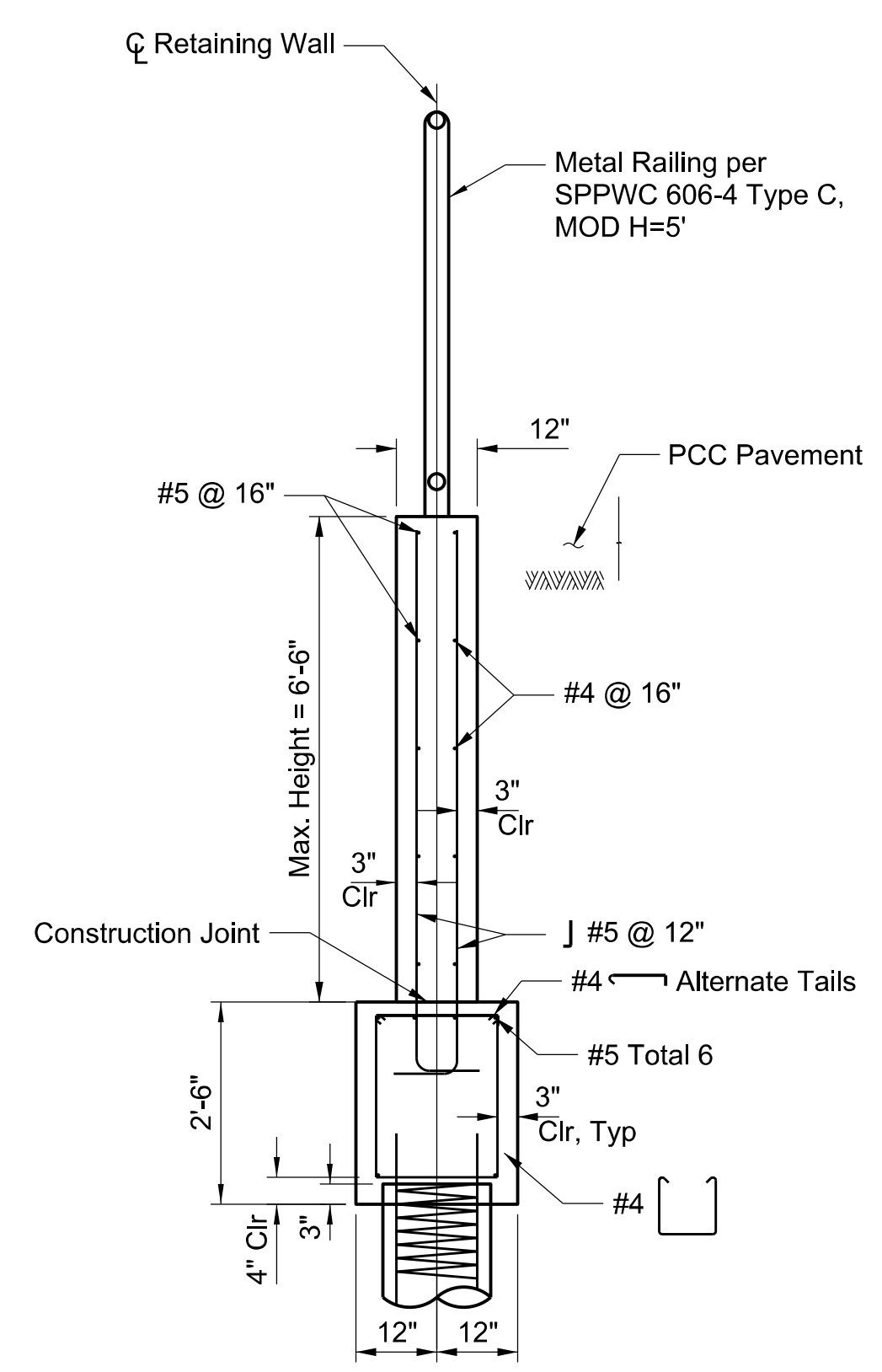
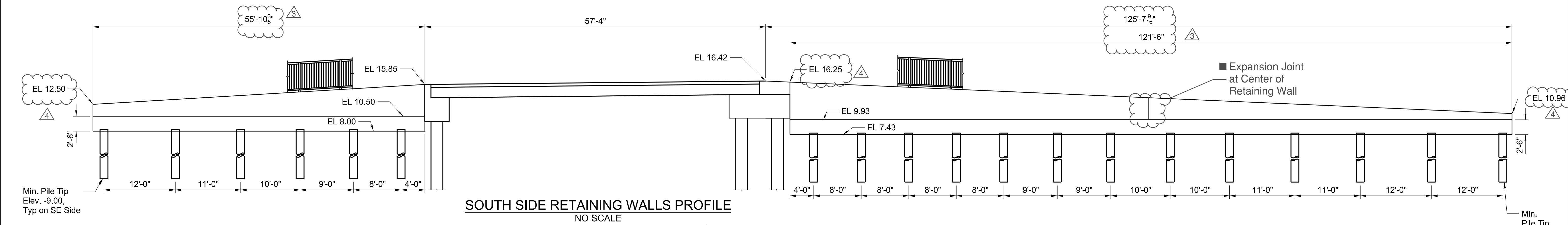
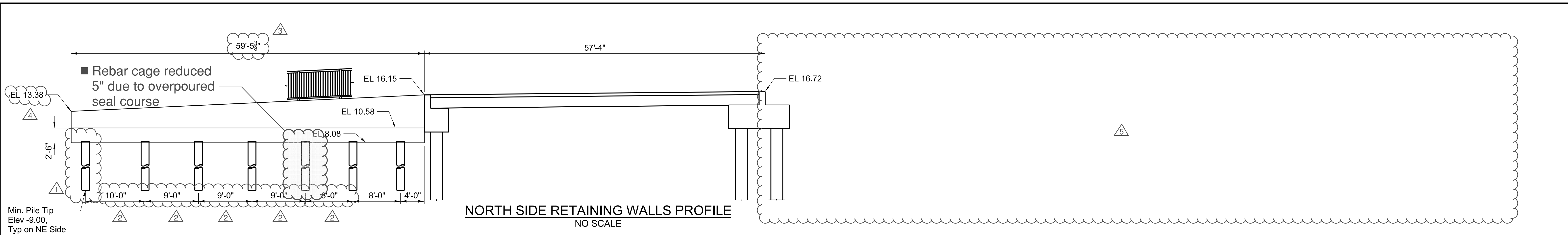


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
GAP CLOSURE  
STORM DRAIN DETAILS  
PROJECT ID. RDC0015071

DWG: PH086765 SHEET 8 OF 26

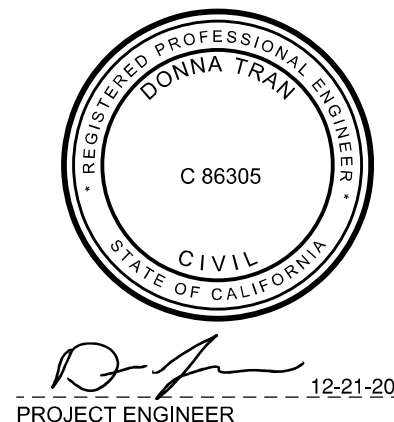




CADD PROJECT FILE NAME: \$FILES\$  
 CHECKER: J. LI  
 DESIGNER: D. TRAN  
 DRAFTER: D. LOPEZ

DATE	MK	DESCRIPTION
8/29/2023	■	AS-BUILT PLANS
4/12/22	△	REVISED CAP DETAIL
4/12/22	△	REMOVED NE RETAINING WALL
4/12/22	△	REVISED WALL EL.
4/12/22	△	REVISED WALL LENGTH
4/12/22	△	REVISED PILE SPACING
4/12/22	△	ADDTL. PILE ADDED ON NW SIDE

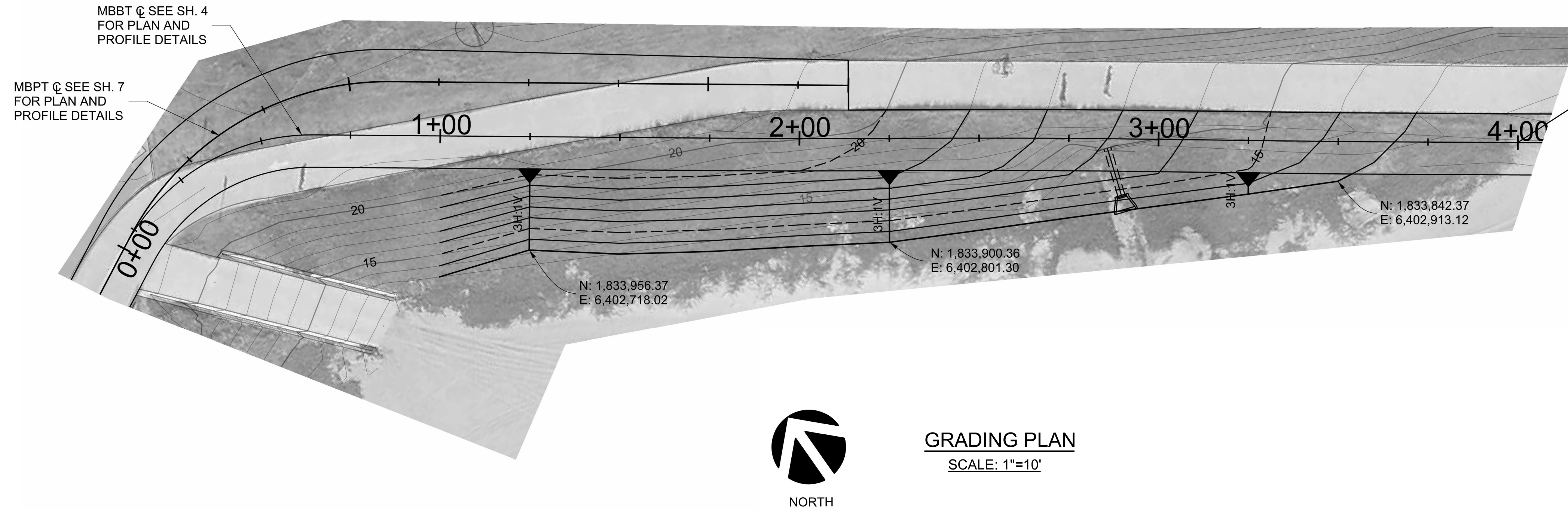
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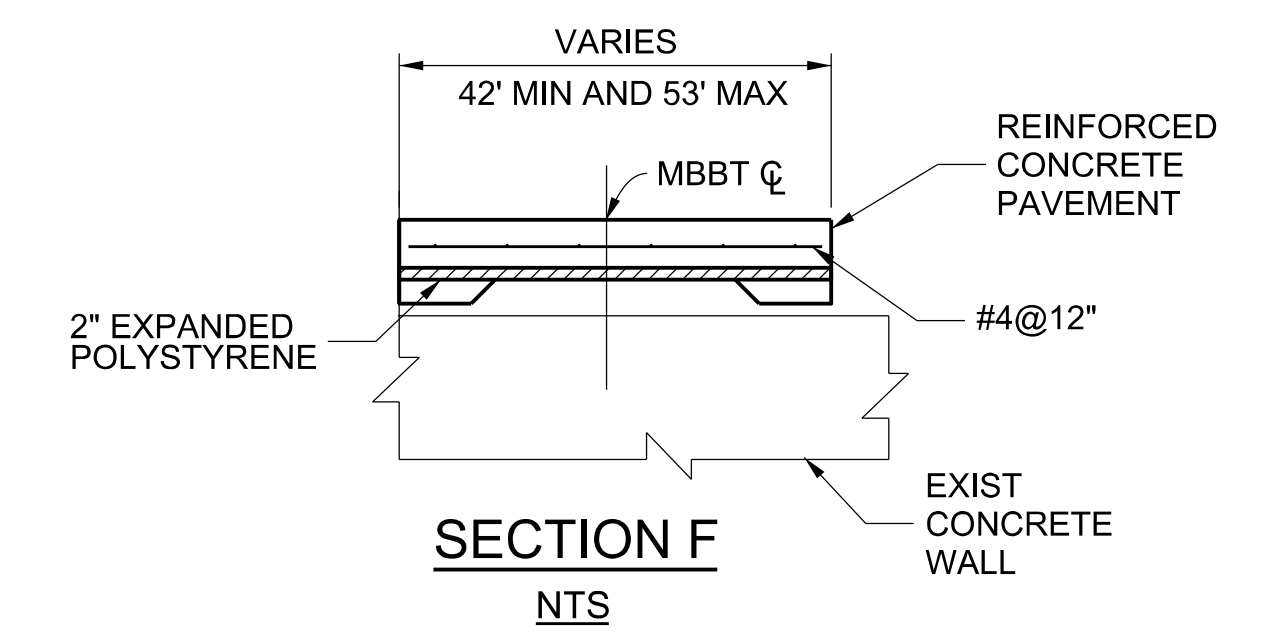
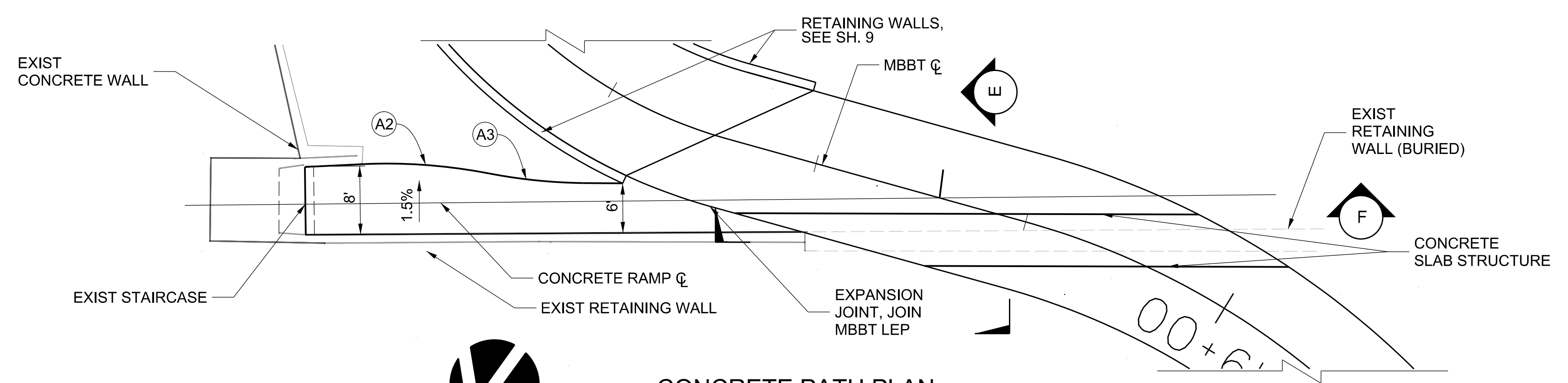
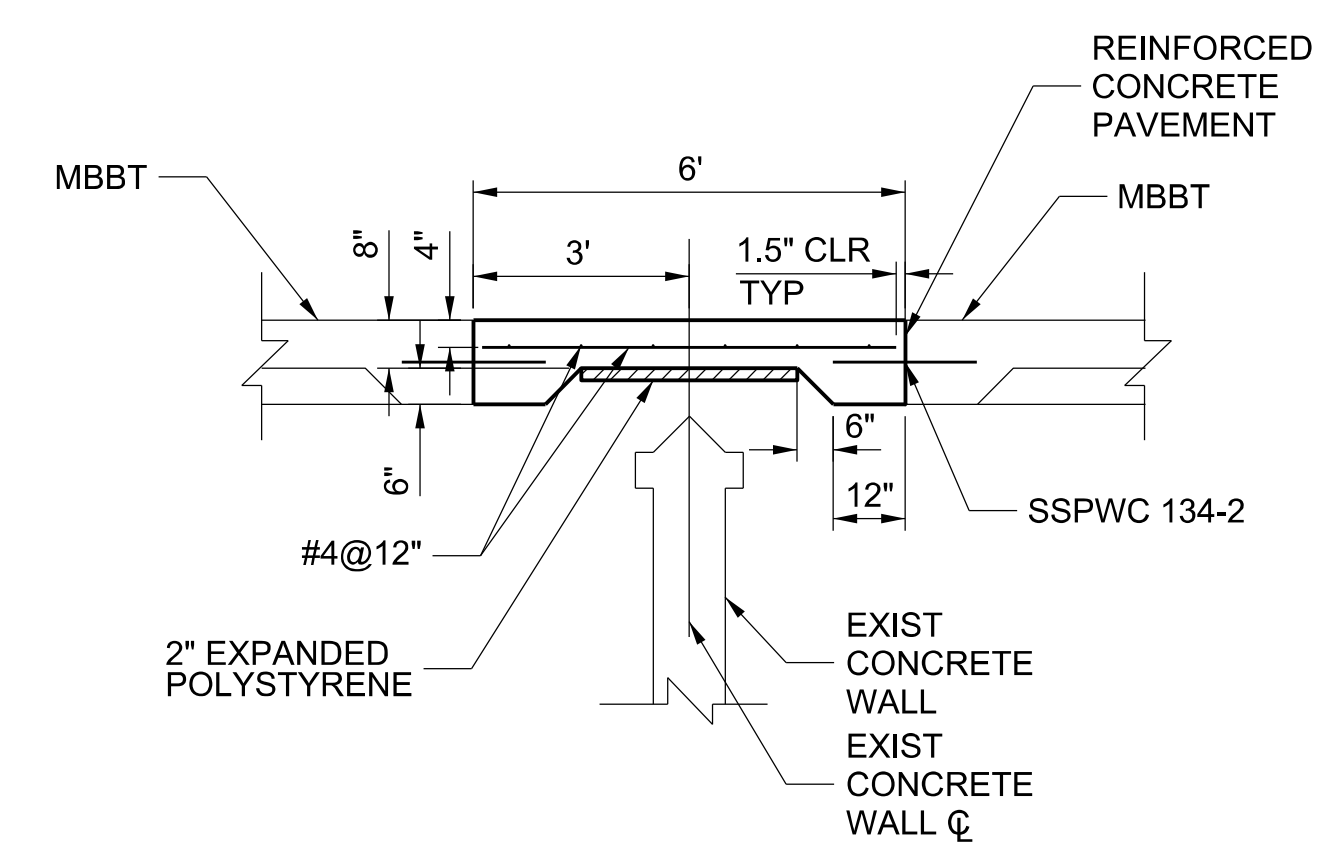
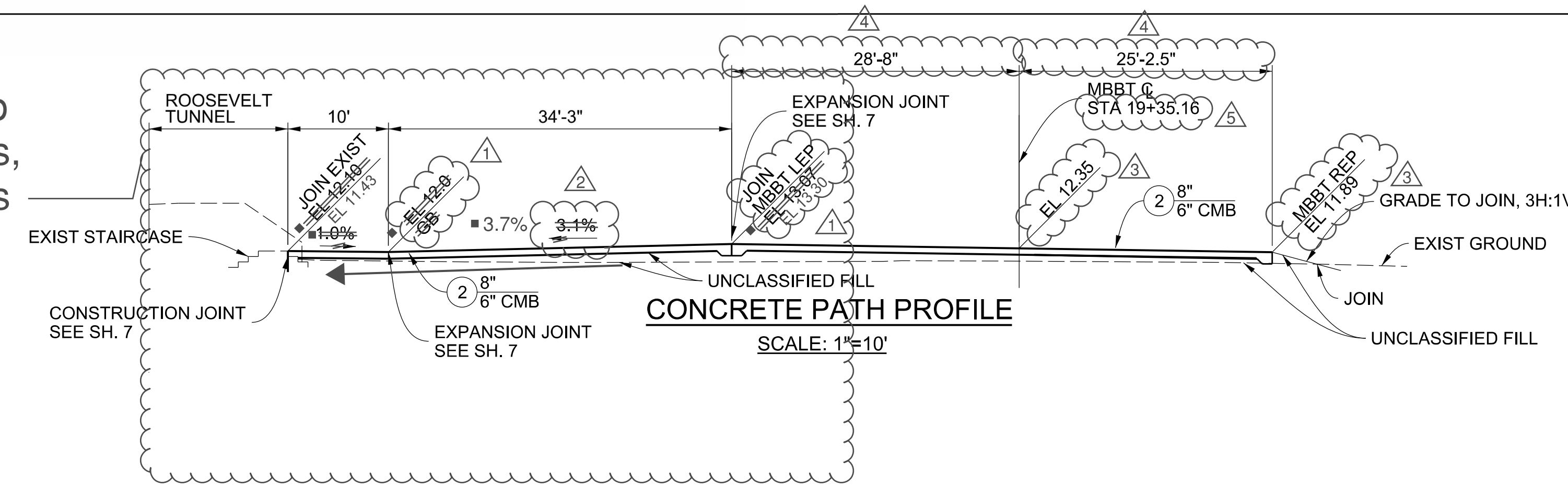
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
 GAP CLOSURE  
 RETAINING WALL PROFILE AND DETAIL  
 PROJECT ID. RDC0015071

DWG \_\_\_\_\_ PH086765 SHEET 9 OF 26



■ Path constructed at straight grade due to conflicting elevations, with expansion joints between new & existing concrete



CURVE DATA						
CURVE	RADIUS	CENTRAL ANGLE	LENGTH	TANGENT	PI NORTHING	PI EASTING
A2	60'	12°48'57"	13.40'	6.85'	1,832,967.53	6,404,229.01
A3	60'	9°38'08"	10.09'	5.05'	1,832,961.65	6,404,216.68

DRAWING NUMBER:		8/29/2023	■	AS-BUILT PLANS
(MARK AS-BUILT HERE)		4/12/22	△	REVISED STATIONING
		4/12/22	△	ADDED LENGTHS
		4/12/22	△	ADDED CONCRETE PATH EL
		4/12/22	△	REVISED CONCRETE PATH GRADE
		4/12/22	△	REVISED CONCRETE PATH EL
DATE	MK	DESCRIPTION		
REVISIONS				



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
GAP CLOSURE

GRADING PLAN, CONCRETE RAMP PLAN AND PROFILE

PROJECT ID. RDC0015071

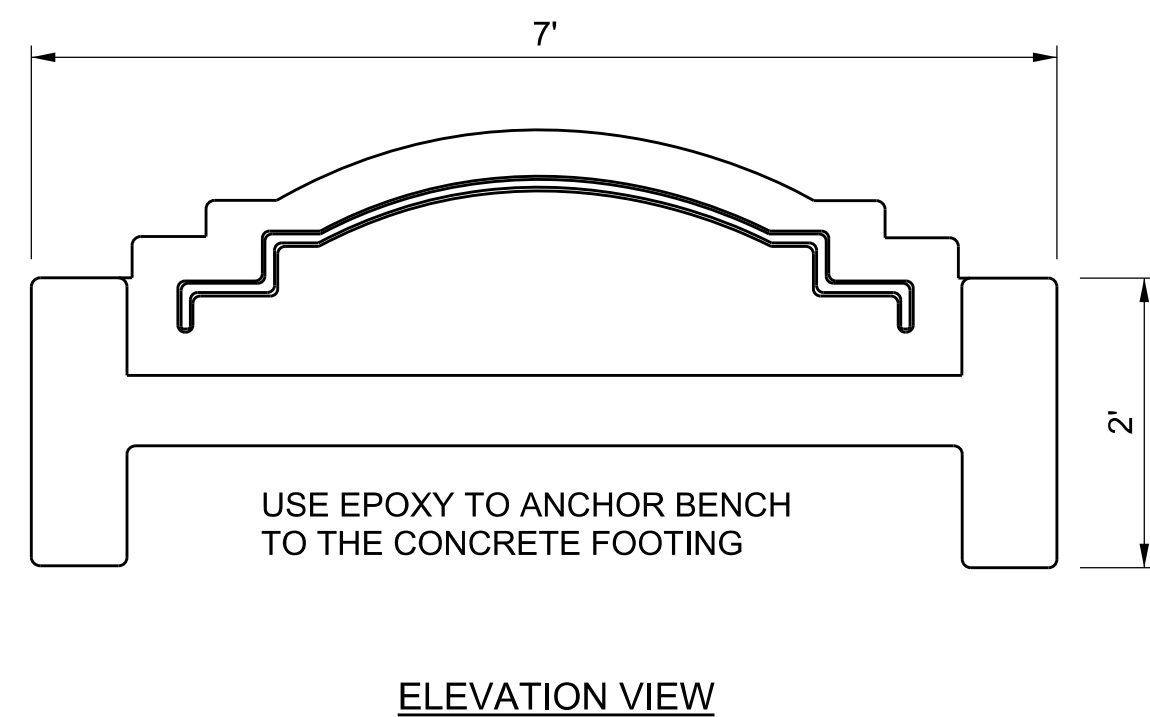
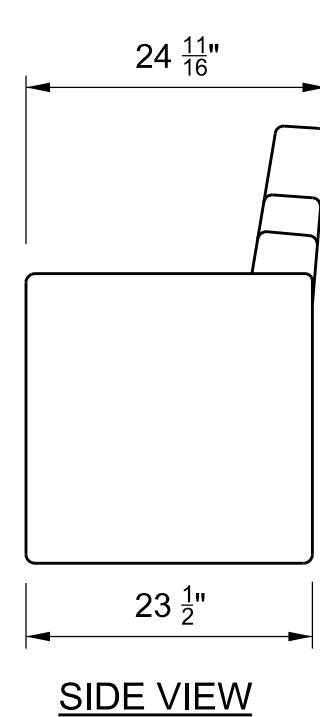
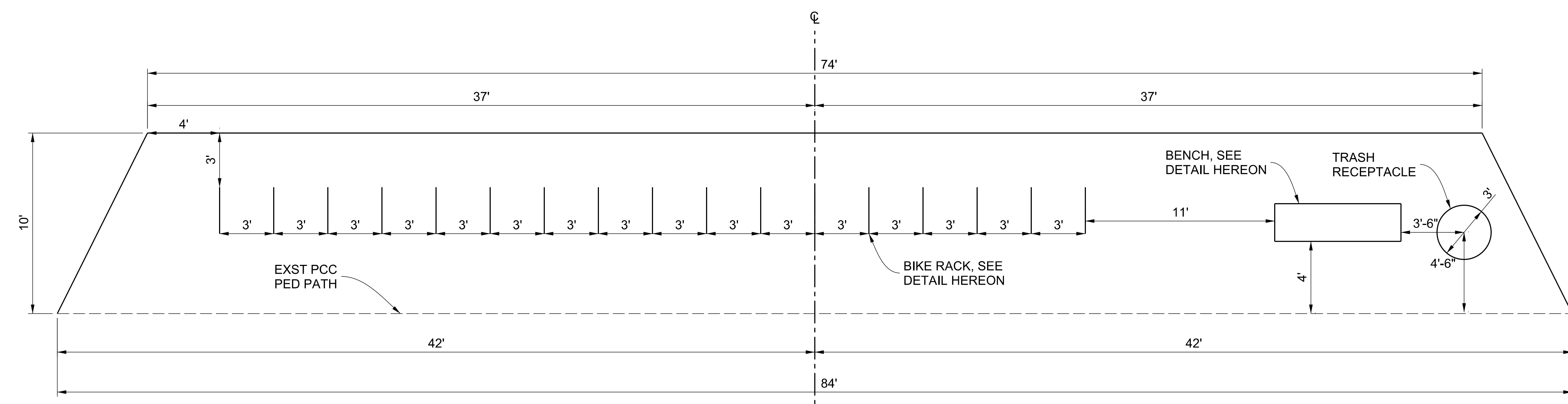
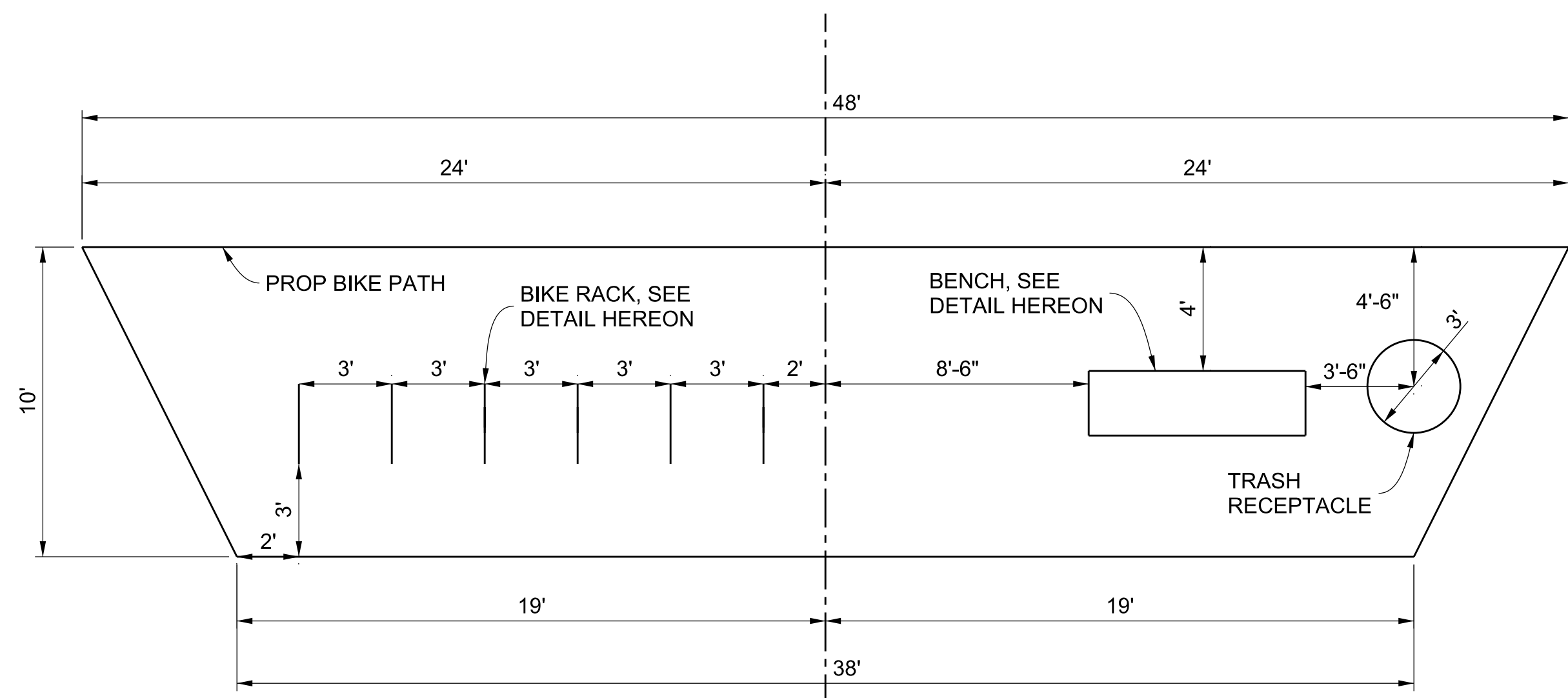
DWG \_\_\_\_\_ PH086765 SHEET 10 OF 26

CADD PROJECT FILE NAME: \$FILES\$

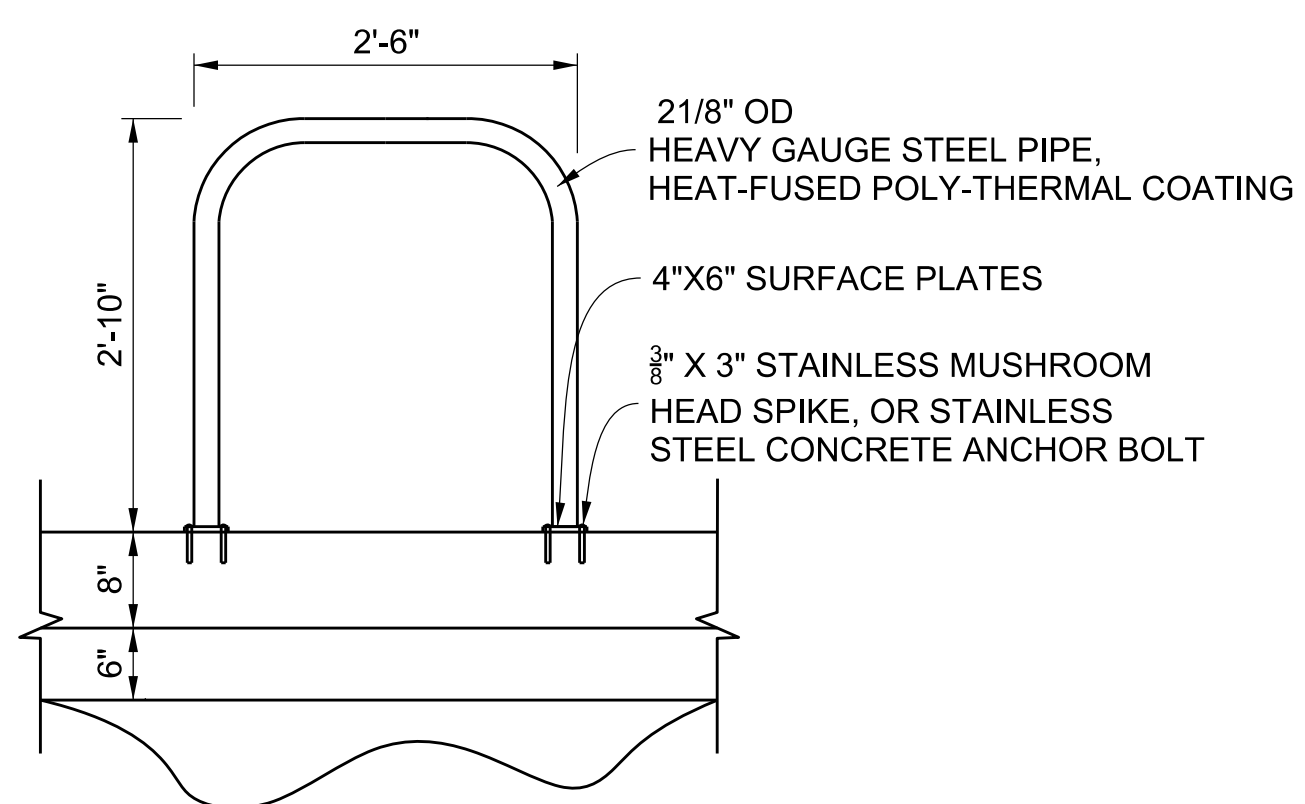
CHECKER: J. LI

DESIGNER: D. TRAN

DRAFTER: D. LOPEZ



**CONCRETE BENCH DETAIL**  
NOT TO SCALE



**BIKE RACK DETAIL**  
NOT TO SCALE

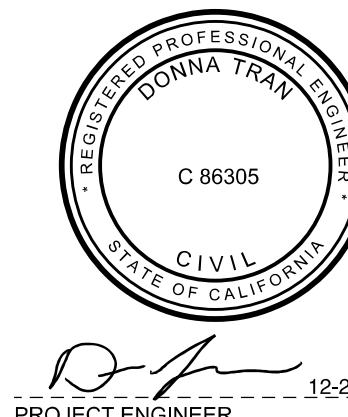
CONSTRUCTION NOTE:  
 VERTICALS WITH 90 DEGREE BEND,  
 WELDED TO PRE PUNCHED  
 SURFACE PLATES

NOTES:

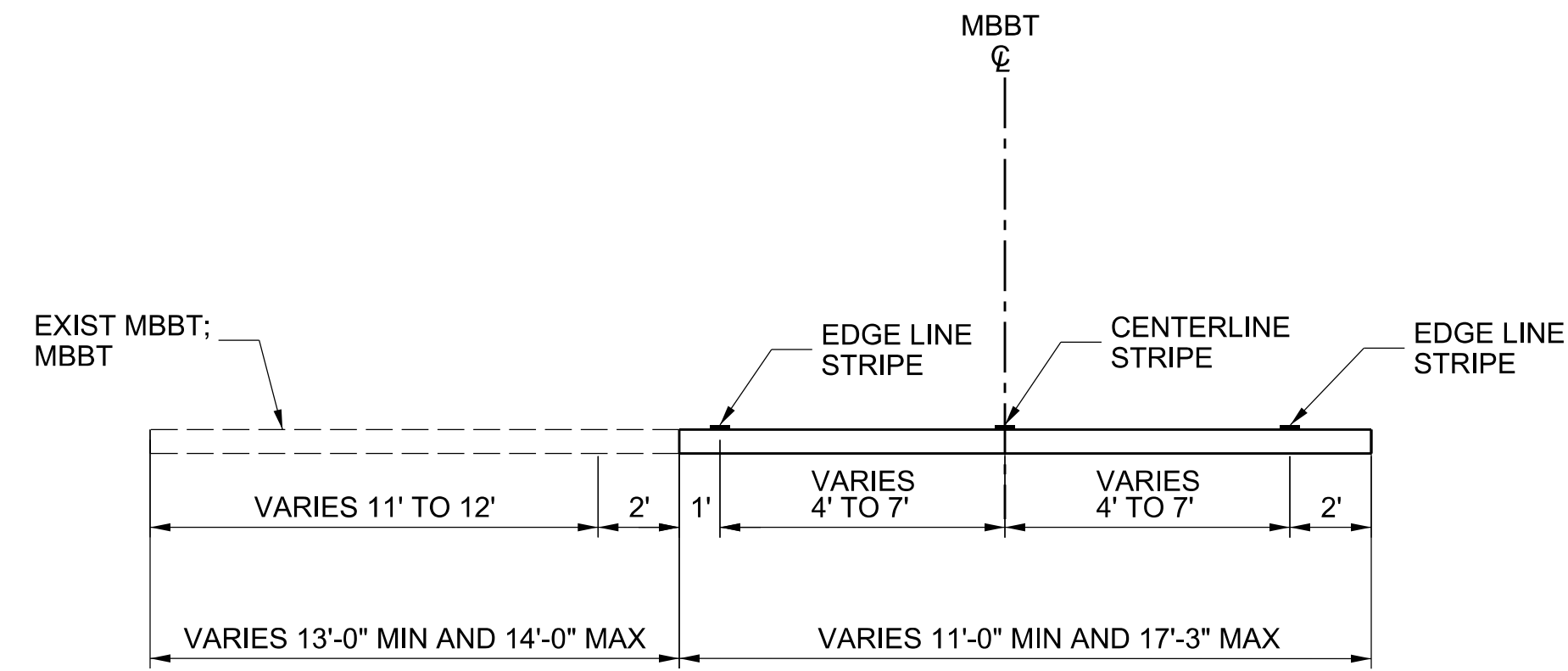
1. INSTALTLATION FOR CONCRETE BENCH AND BIKE RACK WILL BE PER MANUFACTUR SPECS UPON THE APPROVAL OF THE ENGINEER
2. QUANTITY OF BIKE RACKS  
 REST AREA #1: 6  
 REST AREA #2: 17

CADD PROJECT FILE NAME: \$FILES\$  
 CHECKER: J. LI  
 DESIGNER: D. TRAN  
 DRAFTER: D. LOPEZ

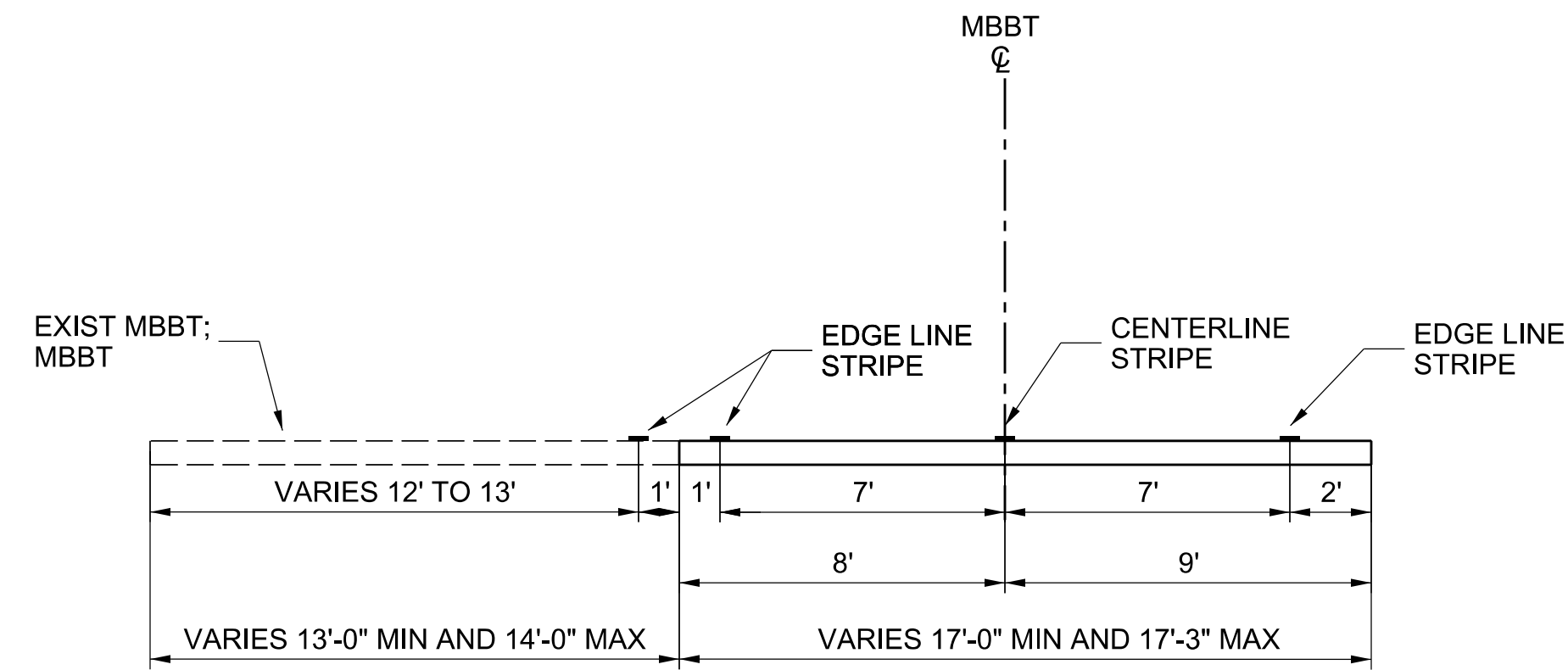
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(MARK AS-BUILT HERE)			
DATE	MK	DESCRIPTION	
8/29/2023		AS-BUILT PLANS	
REVISIONS			



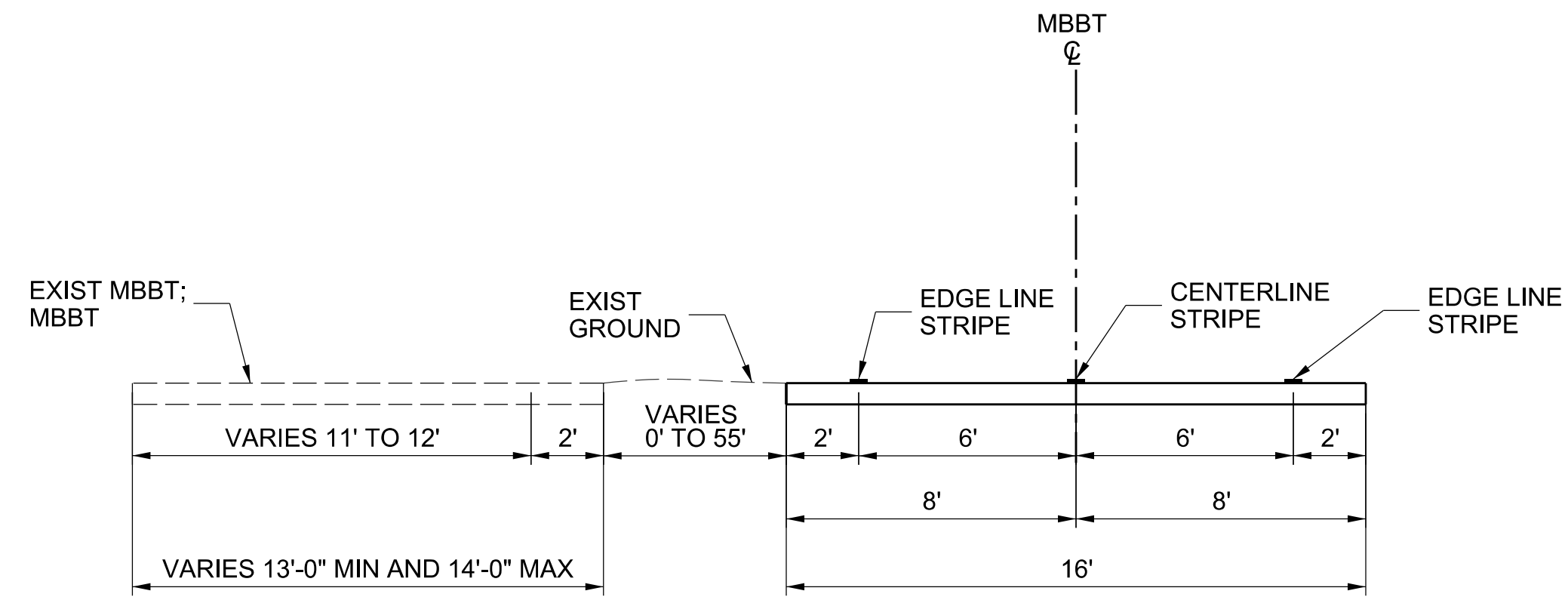
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS			
<b>MARVIN BRAUDE BEACH TRAIL GAP CLOSURE</b>			
PROJECT ID. RDC0015071			
DWG	PH086765	SHEET	11 OF 26



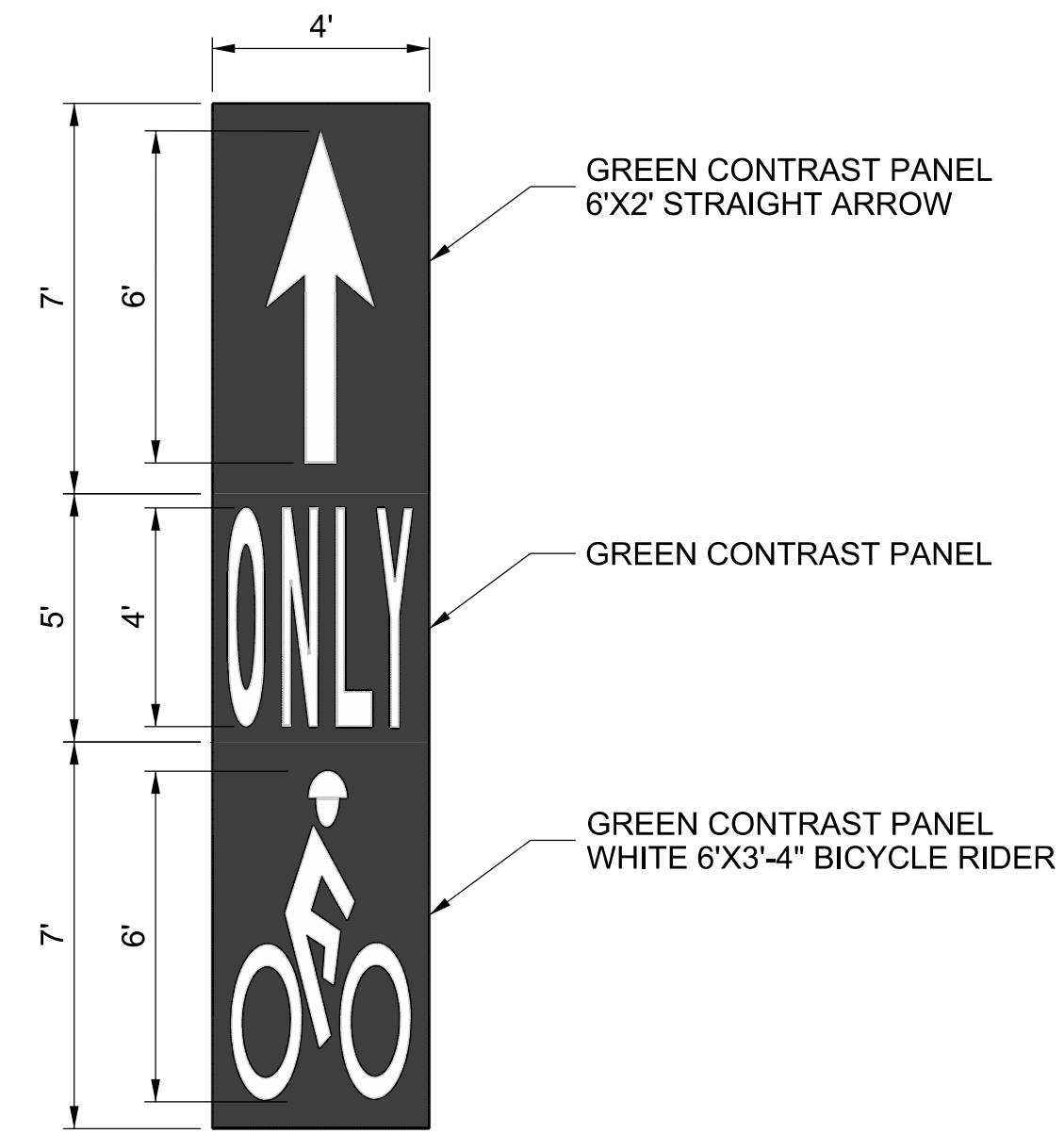
**TYPICAL SECTION**  
**STA 0+00 TO STA 0+77.15**  
 NOT TO SCALE



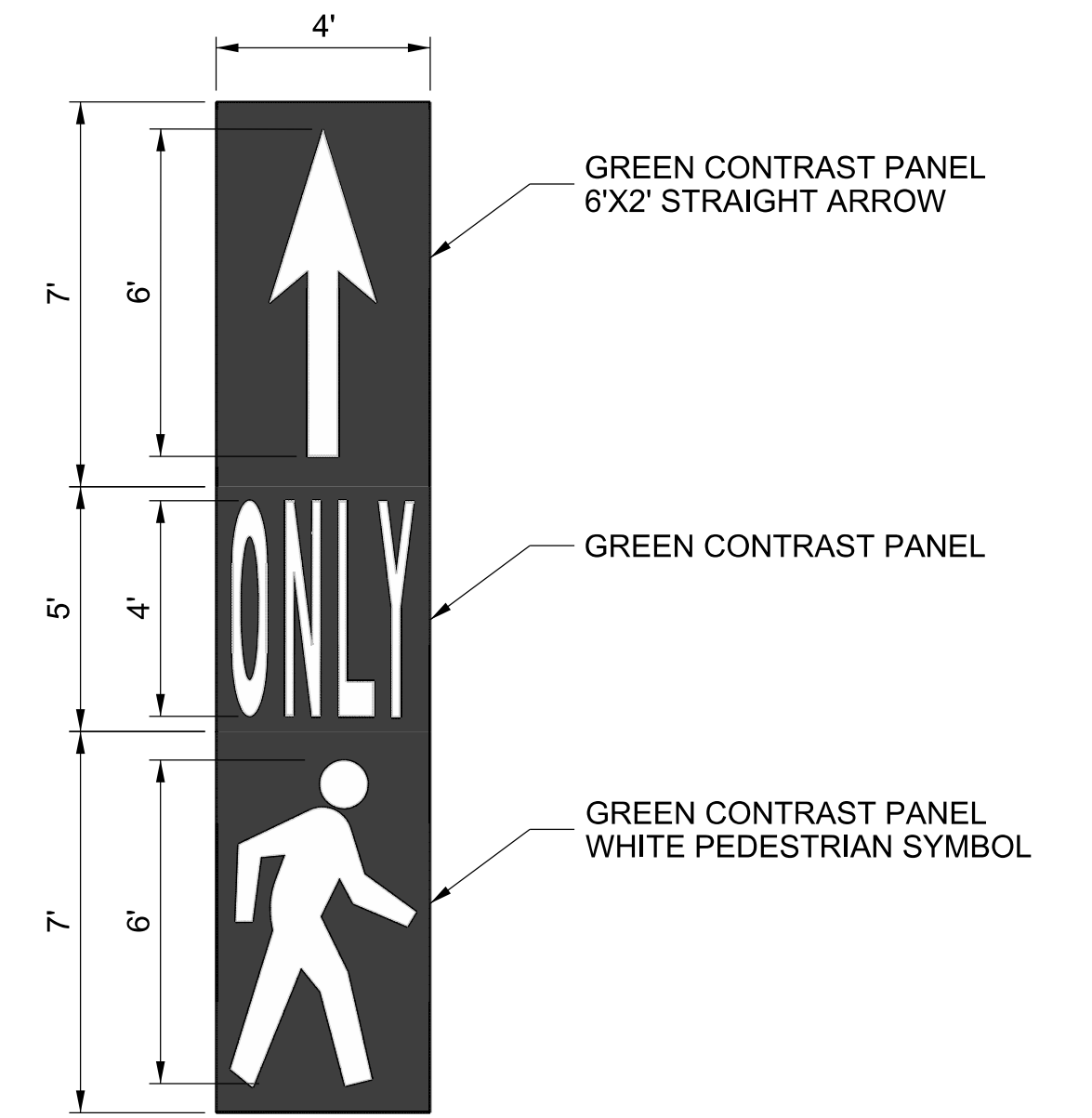
**TYPICAL SECTION**  
**STA 0+77.15 TO STA 17+16.18**  
**STA 22+41.77 TO STA 32+13.60**  
 NOT TO SCALE



**TYPICAL SECTION**  
**STA 17+16.18 TO STA 22+41.77**  
 NOT TO SCALE



**DETAIL A**  
 NOT TO SCALE



**DETAIL B**  
 NOT TO SCALE



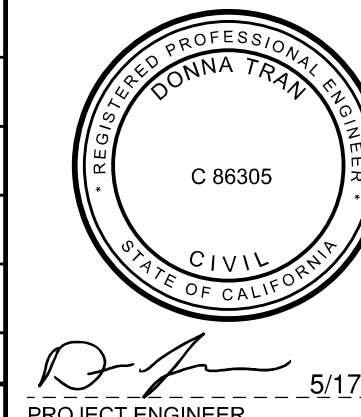
**CALIFORNIA COASTAL TRAIL (CCT)**  
**EMBLEM SIGNAGE**  
 SEE SH 13-15 FOR LOCATIONS  
 NOT TO SCALE

CADD PROJECT FILE NAME  
 \$FILES\$

CHECKER  
 J. LI

DESIGNER  
 D. TRAN

DRAWING NUMBER:			
(MARK AS-BUILT HERE)			
DATE	MK	DESCRIPTION	
8/29/2023		AS-BUILT PLANS	
REVISIONS			



PROJECT ENGINEER  
 5/17/2021

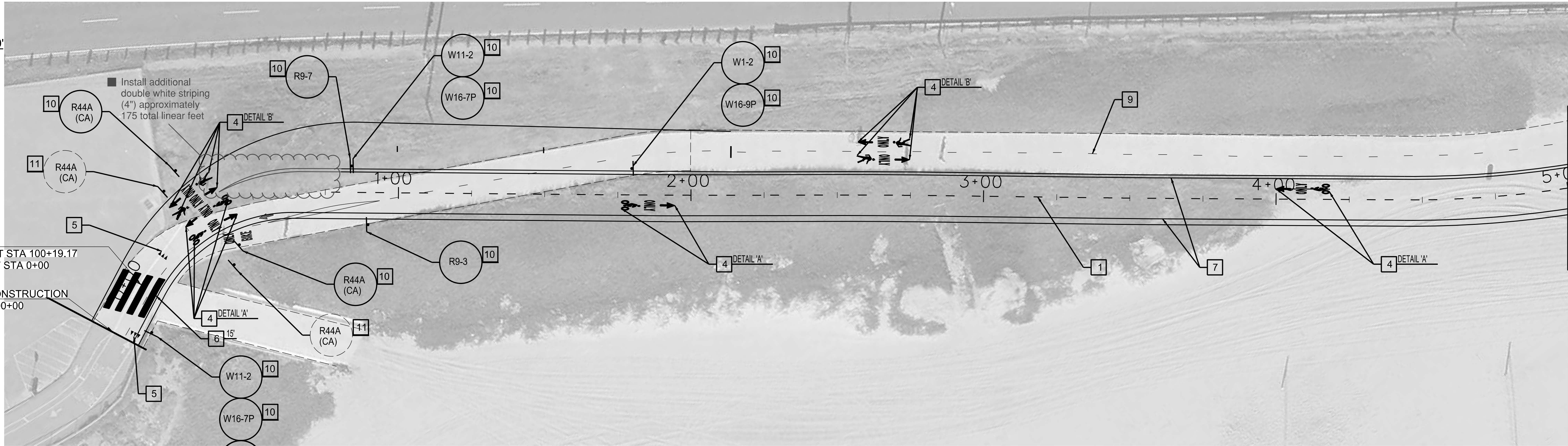
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
 GAP CLOSURE  
 SIGNING AND STRIPING CROSS SECTIONS  
 PROJECT ID. RDC0015071

DWG \_\_\_\_\_ PH086765 SHEET 12 OF 26

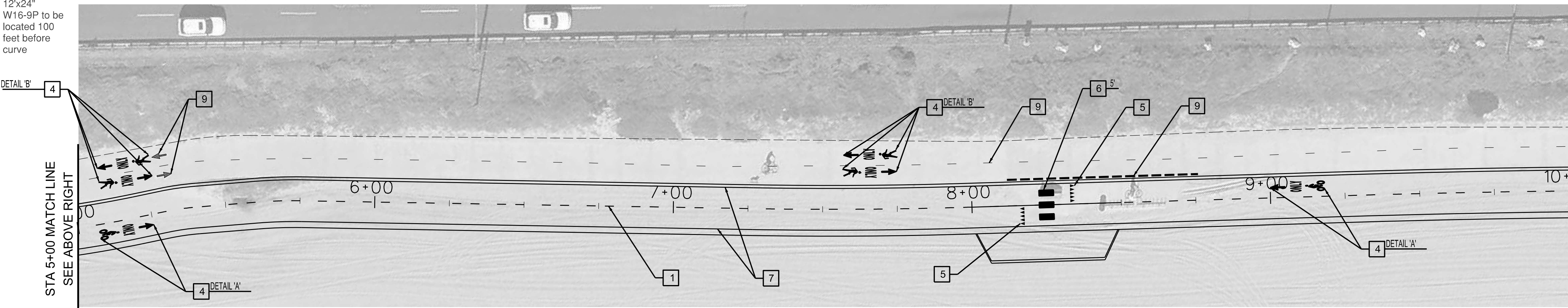


PLAN  
SCALE: 1"=40'



STA 5+00 MATCH LINE  
SEE BELOW LEFT

Additional 30" W1-2 and 12"x24" W16-9P to be located 100 feet before curve



STA 5+00 MATCH LINE  
SEE ABOVE RIGHT

STA 10+00 MATCH LINE  
SEE SHEET 14



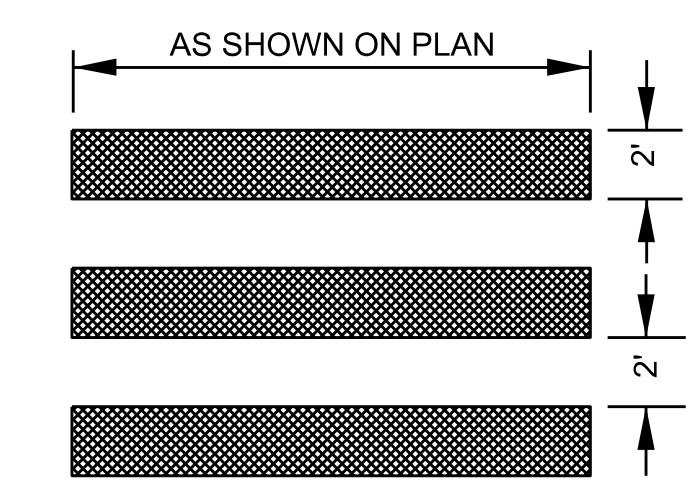
PLAN  
SCALE: 1"=40'

CONSTRUCTION NOTES

- 1 INSTALL DASHED CENTER LINE PER MODIFIED DETAIL 1. (3FT SOLID, 9FT SKIP).
- 2 INSTALL DETAIL 27B.
- 3 INSTALL 4" WHITE DIAGONAL LINE @ 20" SPACING.
- 4 INSTALL PAVEMENT MARKINGS AS SHOWN.
- 5 INSTALL YIELD LINES PER DETAIL.
- 6 INSTALL CONTINENTAL CROSSWALK MARKING AS SHOWN.
- 7 INSTALL 4" YELLOW STRIPING.
- 8 INSTALL 4" YELLOW CHEVRON AS SHOWN.
- 9 REMOVE EXISTING STRIPING/ PAVEMENT MARKINGS.
- 10 INSTALL SIGN.
- 11 REMOVE EXISTING SIGN.
- 12 RE-PAINT EXISTING DETAIL 27B.
- 13 PROTECT EXISTING SIGN.



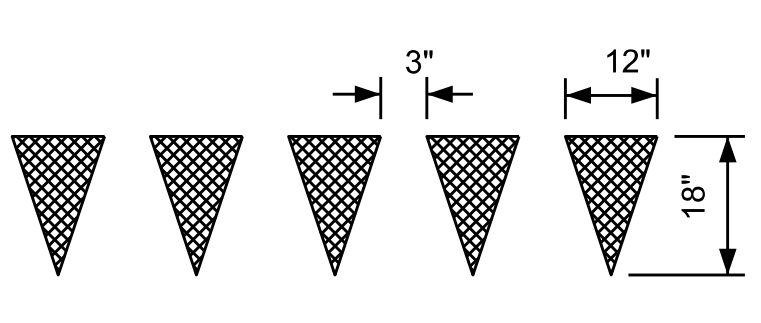
-DETAIL A-  
SEE SH. 12 FOR  
DIMENSION DETAILS



CONTINENTAL CROSSWALK DETAILS



-DETAIL B-  
SEE SH. 12 FOR  
DIMENSION DETAILS



YIELD LINE DETAILS

GENERAL NOTES

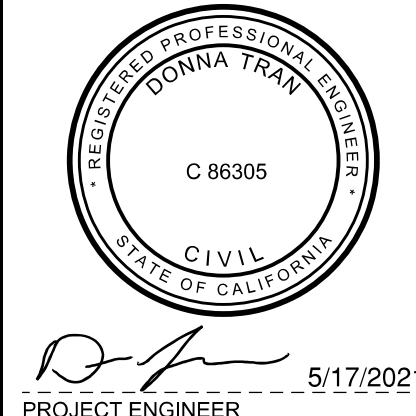
- 1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHOWN, SHALL BE INSTALLED WITH THERMOPLASTIC.
- 2. ALL CENTER LINES AT CROSSWALK/ CROSSHATCH APPROACHES AND DEPARTURES SHALL BEGIN AND END WITH 20 FEET OF 4-INCH SOLID YELLOW LINE.
- 3. REMOVAL OF ALL CONFLICTING LINES AND MARKINGS SHALL BE BY WET SANDBLASTING OR GRINDING AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
- 4. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
- 5. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED.
- 6. CALIFORNIA COASTAL TRAIL (CCT) SIGNAGE SHALL BE 6" AND PROVIDED BY THE SOUTHERN CALIFORNIA COASTAL CONSERVANCY CONTACT REGIONAL MANAGER, MEGAN COOPER, PHONE: 510-286-4172, E-MAIL: MEGAN.COOPER@SCC.CA.GOV

DESIGNER: D. TRAN  
CHECKER: J. LI  
CADD PROJECT FILE NAME: \$FILES\$

DRAWING NUMBER:

(MARK AS-BUILT HERE)

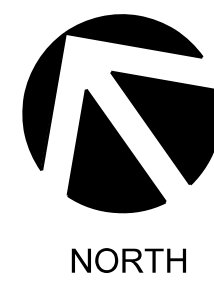
DATE	8/29/2023	DESCRIPTION	AS-BUILT PLANS
DATE		DESCRIPTION	
DATE		DESCRIPTION	



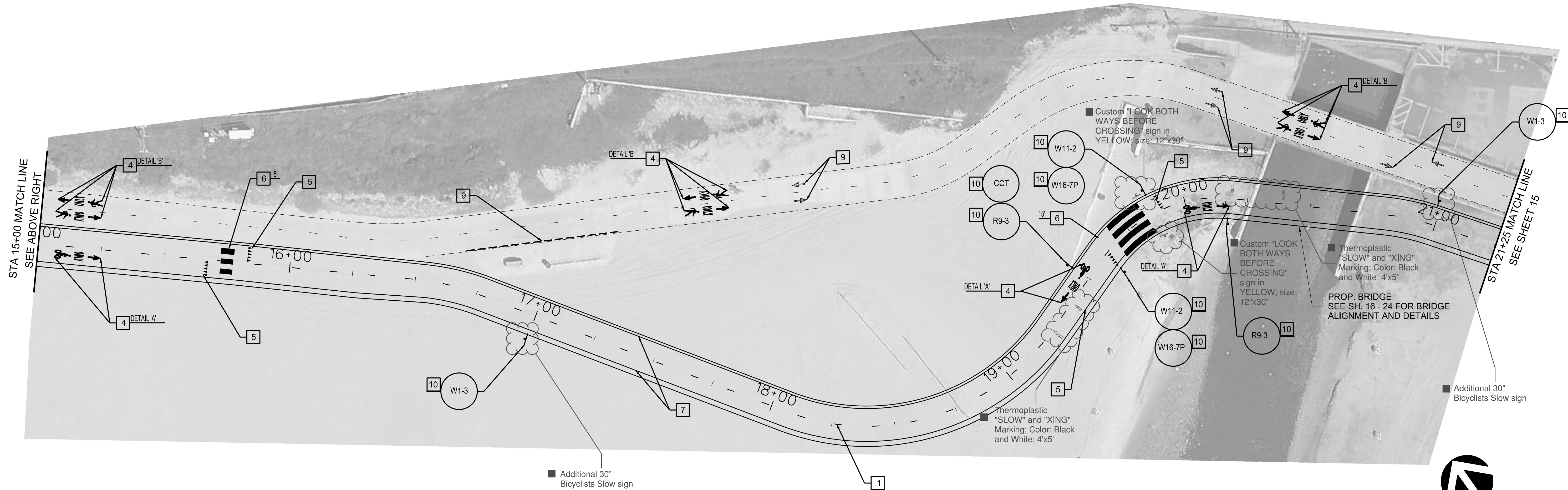
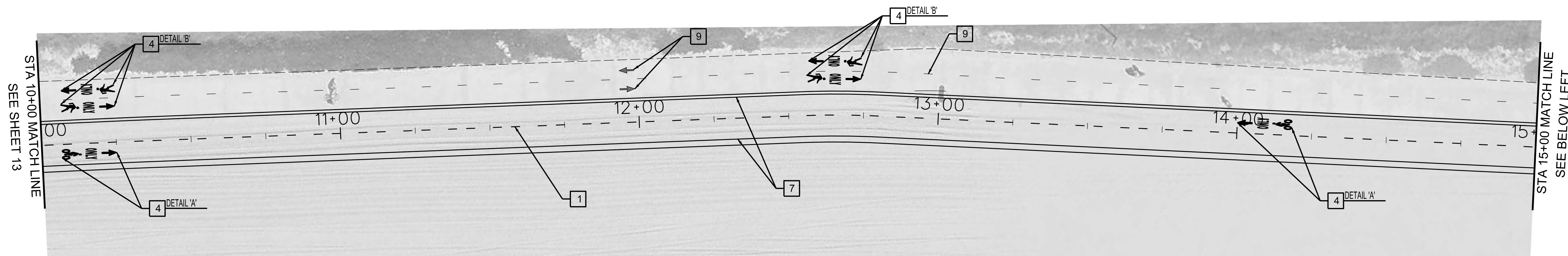
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL**  
GAP CLOSURE  
SIGNING AND STRIPING PLAN - STA 0+00 TO 10+00  
PROJECT ID. RDC0015071

DWG PH086765 SHEET 13 OF 26



PLAN  
SCALE: 1"=40'



SCALE: 1"=40'

CONSTRUCTION NOTES

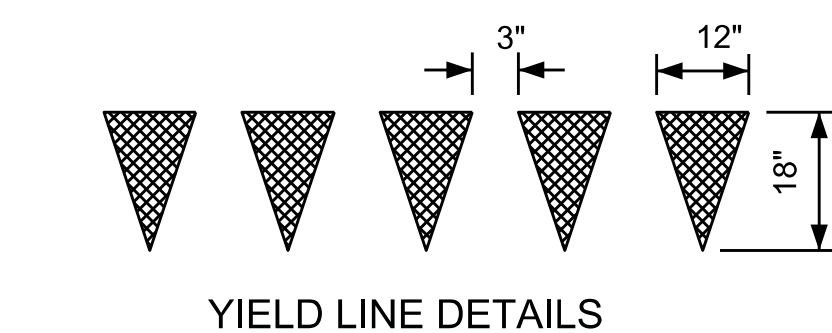
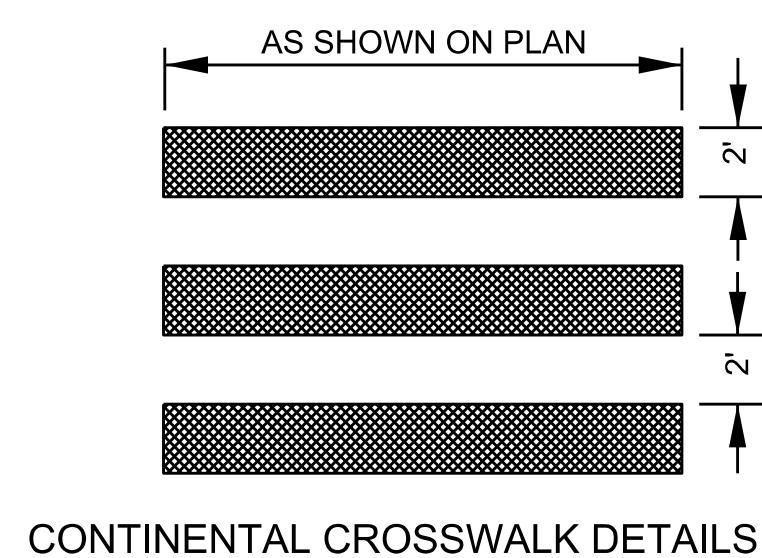
- 1 INSTALL DASHED CENTER LINE PER MODIFIED DETAIL 1. (3FT SOLID, 9FT SKIP).
- 2 INSTALL DETAIL 27B.
- 3 INSTALL 4" WHITE DIAGONAL LINE @ 20" SPACING.
- 4 INSTALL PAVEMENT MARKINGS AS SHOWN.
- 5 INSTALL YIELD LINES PER DETAIL.
- 6 INSTALL CONTINENTAL CROSSWALK MARKING AS SHOWN.
- 7 INSTALL 4" YELLOW STRIPING.
- 8 INSTALL 4" YELLOW CHEVRON AS SHOWN.
- 9 REMOVE EXISTING STRIPING/ PAVEMENT MARKINGS.
- 10 INSTALL SIGN.
- 11 REMOVE EXISTING SIGN.
- 12 RE-PAINT EXISTING DETAIL 27B.
- 13 PROTECT EXISTING SIGN.



-DETAIL A-  
SEE SH. 12 FOR  
DIMENSION DETAILS



-DETAIL B-  
SEE SH. 12 FOR  
DIMENSION DETAILS



GENERAL NOTES

1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHOWN, SHALL BE INSTALLED WITH THERMOPLASTIC.
2. ALL CENTER LINES AT CROSSWALK/ CROSSHATCH APPROACHES AND DEPARTURES SHALL BEGIN AND END WITH 20 FEET OF 4-INCH SOLID YELLOW LINE.
3. REMOVAL OF ALL CONFLICTING LINES AND MARKINGS SHALL BE BY WET SANDBLASTING OR GRINDING AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
4. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
5. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED.
6. CALIFORNIA COASTAL TRAIL (CCT) SIGNAGE SHALL BE 6" AND PROVIDED BY THE SOUTHERN CALIFORNIA COASTAL CONSERVANCY CONTACT REGIONAL MANAGER, MEGAN COOPER, PHONE: 510-286-4172, E-MAIL: MEGAN.COOPER@SCC.CA.GOV

CADD PROJECT FILE NAME  
\$FILES\$  
CHECKER  
J. LI  
DESIGNER  
D. TRAN

DRAWING NUMBER:			
(MARK AS-BUILT HERE)	8/29/2023	AS-BUILT PLANS	
	DATE	REVISIONS	DESCRIPTION

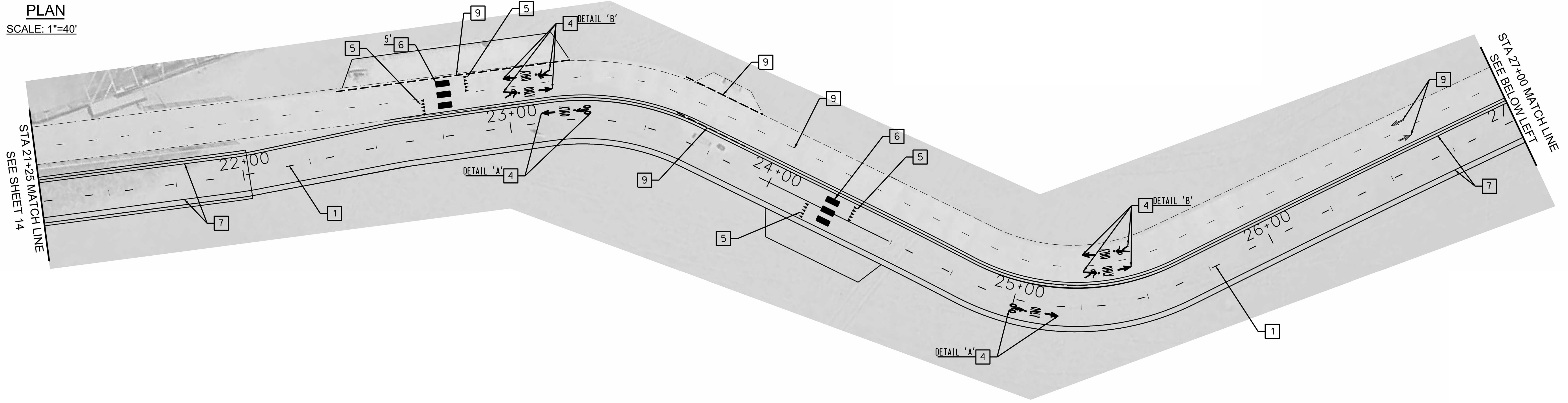


PROJECT ENGINEER  
5/17/2021

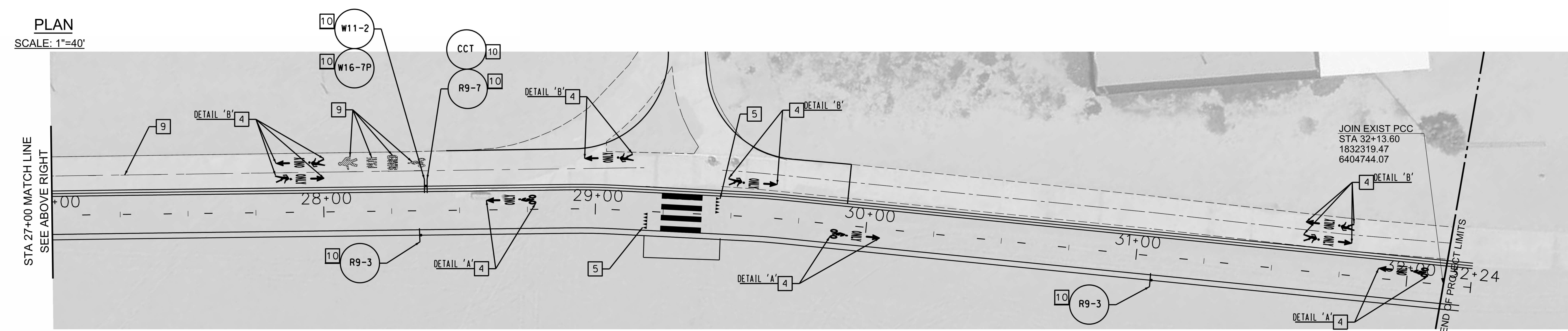
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
<b>MARVIN BRAUDE BEACH TRAIL</b>	
GAP CLOSURE	
SIGNING AND STRIPING PLAN - STA 10+00 TO 21+00	
PROJECT ID. RDC0015071	
DWG	PH086765
SHEET	14 OF 26



PLAN  
SCALE: 1"=40'



PLAN  
SCALE: 1"=40'

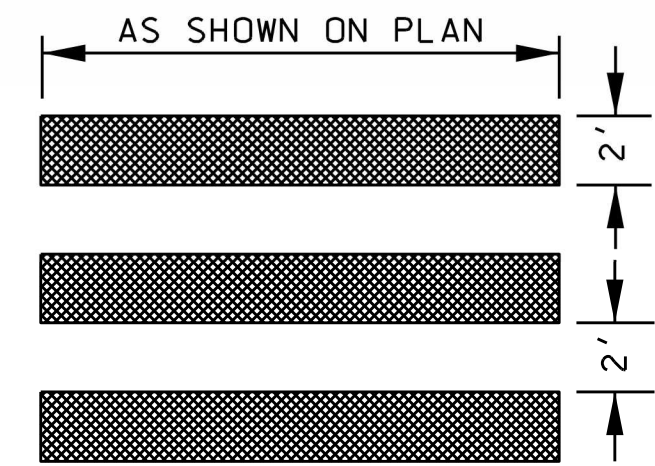


CONSTRUCTION NOTES

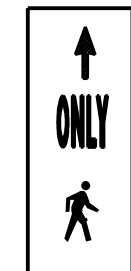
- 1 INSTALL DASHED CENTER LINE PER MODIFIED DETAIL 1. (3FT SOLID, 9FT SKIP).
- 2 INSTALL DETAIL 27B-
- 3 INSTALL 4" WHITE DIAGONAL LINE @ 20' SPACING.
- 4 INSTALL PAVEMENT MARKINGS AS SHOWN.
- 5 INSTALL YIELD LINES PER DETAIL.
- 6 INSTALL CONTINENTAL CROSSWALK MARKING AS SHOWN.
- 7 INSTALL 4" YELLOW STRIPING.
- 8 INSTALL 4" YELLOW CHEVRON AS SHOWN.
- 9 REMOVE EXISTING STRIPING/ PAVEMENT MARKINGS.
- 10 INSTALL SIGN.
- 11 REMOVE EXISTING SIGN.
- 12 RE-PAINT EXISTING DETAIL 27B-
- 13 PROTECT EXISTING SIGN.



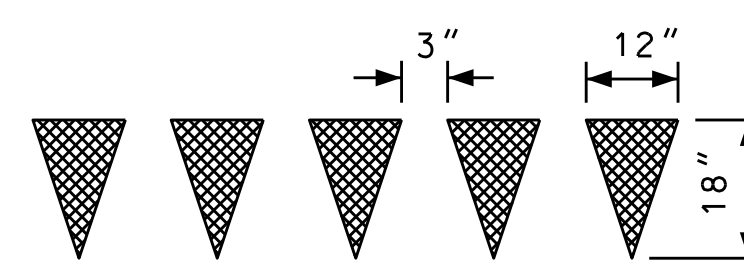
-DETAIL A-  
SEE SH. 12 FOR  
DIMENSION DETAILS



CONTINENTAL CROSSWALK DETAILS



-DETAIL B-  
SEE SH. 12 FOR  
DIMENSION DETAILS




YIELD LINE DETAILS

GENERAL NOTES

- 1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHOWN, SHALL BE INSTALLED WITH THERMOPLASTIC.
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- 4. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
- 5. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED.
- 6. CALIFORNIA COASTAL TRAIL (CCT) SIGNAGE SHALL BE 6" AND PROVIDED BY THE SOUTHERN CALIFORNIA COASTAL CONSERVANCY CONTACT REGIONAL MANAGER, MEGAN COOPER, PHONE: 510-286-4172, E-MAIL: MEGAN.COOPER@SCC.CA.GOV

DESIGNER: D. TRAN  
CHECKER: J. LI  
CADD PROJECT FILE NAME: \$FILES\$

DRAWING NUMBER:				COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
(MARK AS-BUILT HERE)				<b>MARVIN BRAUDE BEACH TRAIL</b> GAP CLOSURE SIGNING AND STRIPING PLAN - STA 21+00 TO 28+18 PROJECT ID. RDC0015071	
	8/29/2023		AS-BUILT PLANS	 PROJECT ENGINEER: Donna Tran DATE: 8/29/2023	
				AS-BUILT DRAWINGS PLAN SP	

NOTE: Subsurface exploration data [Boring Log B-1, "Santa Monica Cyn Channel Rubber Dam"] from a previous investigation [see Geotechnical and Material Engineering Division's (GMED) report dated January 4, 2011, "Santa Monica Canyon Channel Low Flow Diversion Project"] was used for this investigation due to the project limits being at the same location.

SUMMARY LOG OF BORING B-1											
Geotechnical and Materials Engineering Division - Los Angeles County Department of Public Works											
PROJECT		Santa Monica Cyn Channel Rubber Dam		CLIENT		PMD II		PAGE		1 OF 2	
PROJECT ID		00000785		DRILLER		LACDPW		LOGGED BY		Jeremy Wan/Linda Bell	
TYPE/DIAMETER OF BORING		Hollow Stem Auger /8" diameter		ELEVATION		N/A		TOTAL DEPTH		40 feet	
DATE(S)		9/9/10		MONITORING WELL INSTALLED?		No		HAMMER WEIGHT (LBS.)		140	
LOCATION		20ft WSW of Power Pole #30391M 3391		DROP HEIGHT (IN.)		30					
<small>Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.</small>											
LABORATORY TESTING		Sieve % Passing		FIELD DATA		USCS		Environmental Sample No.		Graphic Log	
In-situ	MC	No. 4	No. 200	DEPTH (feet)	Sample No.	Blow Count (per ASTM 1586)	USCS				
	d (pcf)	(%)									
				0							6"-Concrete/4"- Base material
				1			SM				Silty Sand w/ Gravel (Fill) medium brown, moist, medium dense, gravels up to 2". Gravel is black, ne-grained slate or volcanoclastic. Probable II.
				2			SMRD 2.0				
				3							
				4							
102.3	15.3	77.7	43.4	5	1R	4	SC	SMRD 5.0			Clayey Sand w/ Gravel (Fill) dark brown, moist, medium dense, gravels up to 1/2".
				6	2B	9					
				7		15					
				8							
				9							
				10	3R	10		SMRD 10.0			@ 9'-10', Mostly gravel, angular, gray to black. @10', Wood fragments to 3" wide, dark gray. @11', Dense.
126.4	7.2			11		28					
				12		30					
				13							
				14							
				15	4R	11		SMRD 15.0			@14', Decreased nes content. @15', Possible ll/native soil contact. Well graded sand with gravel, dark brown, trace clay, wet. Gravel is angular. From 15' to 20' increasing nes content with increasing depth.
				16		28					
				17		17					
				18							
				19							
				20	5R	40		GP			Gravel w/ Sand dark grey, wet, very dense.
138.1	7.7			21		41					
				22		49					
				23							
				24							
				25							

SUMMARY LOG OF BORING B-1											
Geotechnical and Materials Engineering Division - Los Angeles County Department of Public Works											
PROJECT		Santa Monica Cyn Channel Rubber Dam		CLIENT		PMD II		PAGE		2 OF 2	
PROJECT ID		00000785		DRILLER		LACDPW		LOGGED BY		Jeremy Wan/Linda Bell	
TYPE/DIAMETER OF BORING		Hollow Stem Auger /8" diameter		ELEVATION		N/A		TOTAL DEPTH		40 feet	
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LOCATION		20ft WSW of Power Pole #30391M 3391		DROP HEIGHT (IN.)		30					
<small>Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Material descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.</small>											
LABORATORY TESTING		Sieve % Passing		FIELD DATA		USCS		Interpretations		Graphic Log	
In-situ	MC	No. 4	No. 200	DEPTH (feet)	Sample No.	Blow Count (per ASTM 1586)	USCS	Altitudes	Comments	PID - PPM	
	Y <sub>d</sub>	(pcf)	(%)								
				25	6B	7	GP				@25', medium-dense.
				26		9	CL				Lean Clay w/ Sand medium brown, wet, very stiff.
				27		11	GW				Gravel w/ Sand dark grey, wet, dense.
				28							
				29							
				30	7R	1					
				31		41					
				32		34	CL				Lean Clay black, wet, hard.
				33							
				34							
				35	8B	4					
				36		16	SP				Poorly Graded Sand w/ Clay dark brown, wet, very dense.
				37		42	SC				
				38							
				39							
				40							Boring terminated at 40' due to heaving.
				41							
				42							
				43							
				44							
				45							
				46							
				47							
				48							
				49							
				25							

CADD PROJECT FILE NAME  
 CHECKER W. MAN  
 DESIGNER J. URQUIZO  
 DRAFTER

DRAWING NUMBER:			
(MARK AS-BUILT HERE)			
DATE	8/22/2023	DESCRIPTION	AS-BUILT PLANS
REVISIONS			
PROJECT ENGINEER		12/21/2020	



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
<b>MARVIN BRAUDE BEACH TRAIL</b> GAP CLOSURE LOG OF BORINGS PROJECT ID. RDC0015071	
DWG	PH086765
SHEET	26 OF 26

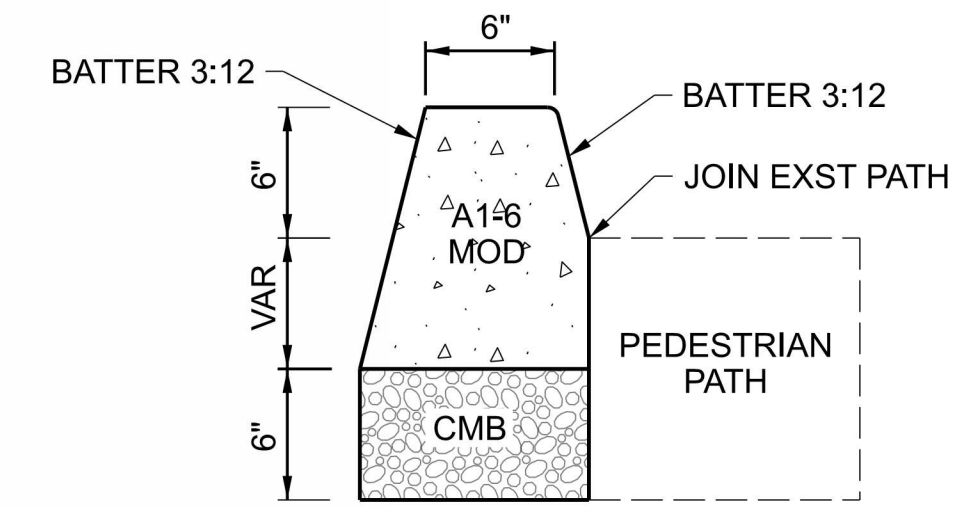




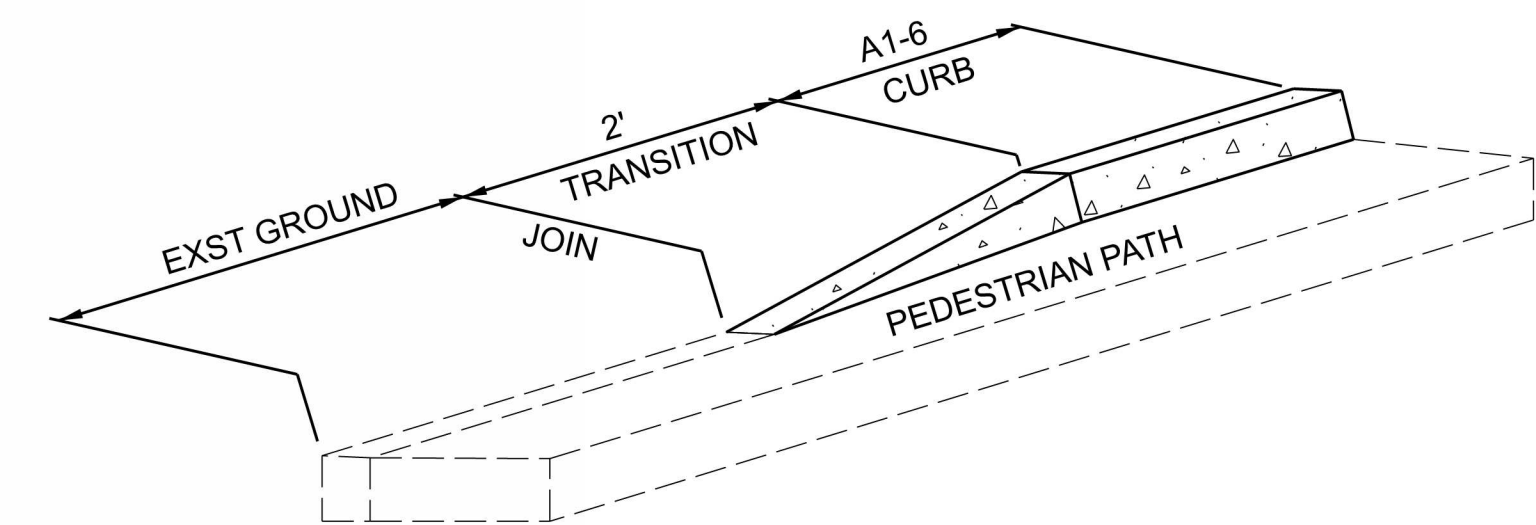
NORTH

**BIKE PATH ENTRANCE CURB PLAN**

NOTE:  
 \*\*. REMOVABLE SAFETY BOLLARD, 36" H X 4" DIA, YELLOW PER GLOBAL INDUSTRIAL COMPANY MANUFACTURER NUMBER 670517 OR AGENCY APPROVED EQUAL.  
 CONTRACTOR SHALL SUBMIT SAFETY BOLLARD RECOMMENDATION TO DEPARTMENT OF BEACHES AND HARBORS FOR APPROVAL.



**TYPICAL SECTION**  
NO SCALE



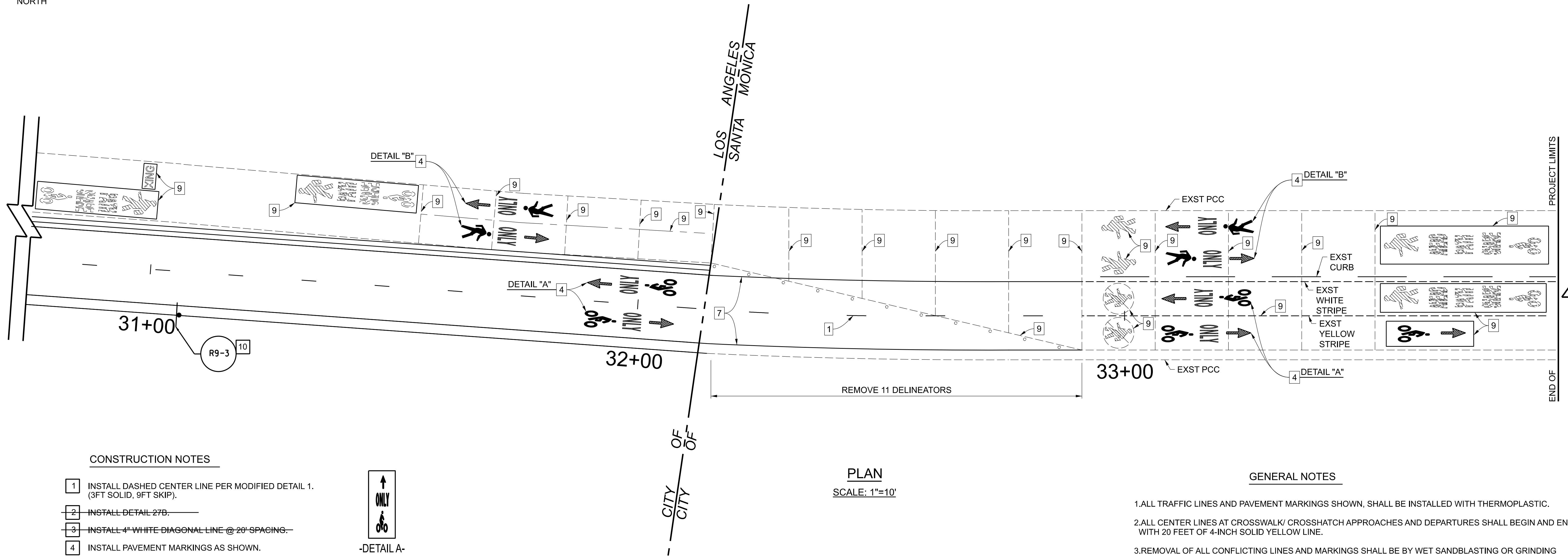
**CURB TRANSITION DETAIL\***  
NO SCALE

REVISED BIKE PATH ENTRANCE  
WITH PIPE BOLLARDS

MARVIN BRAUDE BEACH TRAIL



NORTH



**CONSTRUCTION NOTES**

- 1 INSTALL DASHED CENTER LINE PER MODIFIED DETAIL 1. (3FT SOLID, 9FT SKIP).
- 2 INSTALL DETAIL 27B.
- 3 INSTALL 4" WHITE DIAGONAL LINE @ 20" SPACING.
- 4 INSTALL PAVEMENT MARKINGS AS SHOWN.
- 5 INSTALL YIELD LINES PER DETAIL.
- 6 INSTALL CONTINENTAL CROSSWALK MARKING AS SHOWN.
- 7 INSTALL 4" YELLOW STRIPING.
- 8 INSTALL 4" YELLOW CHEVRON AS SHOWN.
- 9 REMOVE EXISTING STRIPING/ PAVEMENT MARKINGS.
- 10 INSTALL SIGN.
- 11 REMOVE EXISTING SIGN.
- 12 RE-PAINT EXISTING DETAIL 27B.
- 13 PROTECT EXISTING SIGN.



-DETAIL A-  
SEE SH. 12 FOR  
DIMENSION DETAILS



-DETAIL B-  
SEE SH. 12 FOR  
DIMENSION DETAILS

**PLAN**  
SCALE: 1"=10'

**GENERAL NOTES**

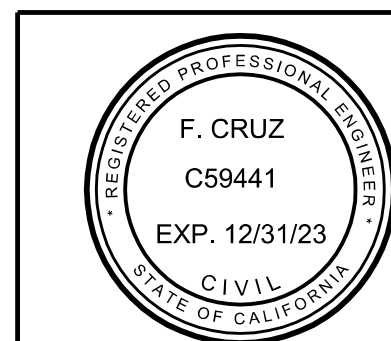
1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHOWN, SHALL BE INSTALLED WITH THERMOPLASTIC.
2. ALL CENTER LINES AT CROSSWALK/ CROSSHATCH APPROACHES AND DEPARTURES SHALL BEGIN AND END WITH 20 FEET OF 4-INCH SOLID YELLOW LINE.
3. REMOVAL OF ALL CONFLICTING LINES AND MARKINGS SHALL BE BY WET SANDBLASTING OR GRINDING AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.
4. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.
5. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED.

ADDENDUM 1

**City of Santa Monica**

Drawings have been REVIEWED and no exceptions are taken by:  
 PRINCIPAL CIVIL ENGINEER: *[Signature]* DATE: 2/23/23  
 (name) Curtis Castle

APPROVED BY:  
 CITY ENGINEER (or designated City Officer):  
 SIGNATURE: *[Signature]* DATE: 2/23/23  
 PRINTED NAME: Alex Nazarchuk



*[Signature]* 2/22/23  
PROJECT ENGINEER DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**MARVIN BRAUDE BEACH TRAIL  
GAP CLOSURE  
CITY OF SANTA MONICA STRIPING PLAN**  
PROJECT ID. RDC0015071

DWG \_\_\_\_\_ SHEET 28 PH086765 SHEET 1 OF 1

**AS-BUILT DRAWINGS**