

**AMENDMENT NO. 1 TO COOPERATIVE AGREEMENT
FOR FUNDING CONSTRUCTION OF THE GRADE SEPARATION AND RAIL
REALIGNMENT PROJECT AT 25th AVENUE IN SAN MATEO**

This Amendment No.1 to Cooperative Agreement for Funding Construction of the Grade Separation and Rail Realignment Project at 25th Avenue in San Mateo (Amendment) is entered into on _____, 2021 (Effective Date) between the Peninsula Corridor Joint Powers Board (JPB) and the City of San Mateo (City), each of which is referred to herein individually as "Party" and jointly as "Parties."

RECITALS

WHEREAS, the JPB is a public agency existing under the laws of the State of California which owns the railroad right-of-way on the corridor between San Francisco and San Jose, California and operates commuter rail passenger service (Caltrain) along that corridor and to the south, between San Francisco and Gilroy; and

WHEREAS, City is a municipal corporation in the State of California; and

WHEREAS, the JPB is in the process of constructing the 25th Avenue Grade Separation and Rail Realignment Project (Project), located within the City and has agreed to perform or contract for the performance of all services, and provide all materials required, for completion of the Project; and

WHEREAS, the JPB will own and maintain all improvements and other facilities constructed as part of the Project; and

WHEREAS, the Parties have secured \$84 million in California High Speed Rail Authority (CHSRA) funds appropriated for this Project, and the City is applying for \$10 million in Streets and Highway Code Section 190 Grade Separation funds from the California Department of Transportation (Caltrans) to reimburse the JPB for a portion of the Project costs; and

WHEREAS, to facilitate the completion of the Project, City and the JPB have entered into a memorandum of understanding with the San Mateo County Transportation Authority (TA) (referred to herein as "3-Party MOU" and dated July 11, 2014) for the Preliminary Engineering / Environmental (PE/ENV) phase of work; and

WHEREAS, the 3-Party MOU has subsequently been amended to address the Final Design and Right of Way (PS&E and ROW) and Construction phases of work to detail the parties' respective roles and responsibilities related to Project funding; and

WHEREAS, the JPB and City will negotiate and enter into a separate agreement which will govern the construction and maintenance of the Project (C&M Agreement); and

WHEREAS, on March 21, 2017, the JPB and City entered into that certain "Cooperative Agreement for the 25th Avenue Grade Separation" (Agreement) to further define certain roles and responsibilities as between the Parties related to the Project management and funding through this

Agreement; and

WHEREAS, the City is undertaking a project to construct a 30" sewer line on JPB property involved in the Project, the rights for which will be the subject separate agreements, and the JPB and City wish to revise the payment terms of the Agreement to reflect a credit to the City to compensate it for undertaking additional work, which shall consist of the construction of improvements (the "Improvements"), which include but are not limited to a bioswale and sidewalk generally along the surface of the sewer alignment, and to provide for the terms and conditions for the City to perform such work; and

WHEREAS, the City shall construct the Improvements for the JPB to own and maintain; and

WHEREAS, the 30" sewer line will be owned and maintained by the City.

NOW THEREFORE, in consideration of the mutual benefits and obligations herein, the JPB and City agree as follows:

1. AMENDMENT TO SECTION 2: PROJECT COST AND FUNDING.

The "Scope of Work Budget/Scope of Funding Table" in Section 2.a. of the Agreement is revised as shown below:

Scope of Work Budget/Scope of Funding Table

	TA Responsibility (for the JPB)	City Responsibility			Total
Phase	Measure A Funding	City Local Funds	CHSRA	Section 190	
Preliminary Engineering /Environmental Review (PE/ENV) ¹	\$3.7 Million	\$1 Million			\$4.7 Million
Final Design (PSE/ROW)	\$5 Million	\$5 Million			\$10 Million
Right-of-Way (ROW)/Construction ²	\$65.3 <u>\$89.1</u> Million	\$6 <u>\$7.6</u> Million	\$84 Million	\$10 Million	\$190.7 Million
Total³	\$74 <u>\$97.8</u> Million	\$12 <u>\$13.6</u> Million	\$84 Million	\$10 Million	\$205.4 Million

Footnotes

1) \$200,000 of the City's \$1 million match from the PE/ENV phase was from in-kind staff support.

2) City costs for in-kind staff support during the ROW/Construction phase are anticipated to be \$225,000 (this includes left over funding rolled over from the PE/ENV phase) and may be subject to change during the course of the Project upon mutual agreement by the Parties' authorized representatives. On January 4, 2021 the City increased its in-kind staff support by another \$100,000, this was part of the additional \$2.1M the City contributed from local funds. This increased the total in-kind staff support to \$325,000.

- 3) The Project also requires the conveyance of approximately 3.7 acres of TA-owned real property to the JPB for Caltrain access and the street connection at 28th Avenue. An independent third- party has valued the subject properties at \$19.97 million. The form and documentation of property conveyance, along with the price and terms of any appropriate compensation, is still under discussion.
- 4) City responsibility for Construction is reduced by \$500,000 as a result of City provision of in-kind contribution to the Project by constructing Improvements, as described in Section 2 of this Amendment, to be constructed as part of City's separate construction project to install a 30" sewer line on JPB property pursuant to a separate agreement. Amounts to be paid by the City pursuant to the License Agreement and any related Service Agreement are unrelated to this monetary arrangement.

2. AMENDMENT TO SECTION 3: RESPONSIBILITIES.

- a. Section 3.a of the Agreement is revised by adding the following text at the end of that provision:
- viii. Own and maintain the bioswale, retaining wall, and sidewalk improvements generally along the surface of the City sewer alignment as described in Exhibit A, attached hereto and incorporated herein by this reference, using its own funds.
- b. Section 3.b of the Agreement is revised by adding the following text at the end of that provision:
- vi. Construct bioswale, retaining wall, and sidewalk improvements generally along the surface of the City sewer alignment as described in Exhibit A, attached hereto and incorporated herein by this reference, using its own funds.
- vii. Own and maintain the sewer improvements (pipes and manholes) using its own funds.

3. MISCELLANEOUS.

- a. Counterparts. This Amendment may be executed in counterparts.
- b. Entire Agreement. This Amendment, the Agreement and the 3-Party MOU constitute the entire agreement between the Parties pertaining to the subject matter contained herein and supersede all prior or contemporaneous agreements, representations and understandings of the Parties relative thereto. Except as specifically amended by this Amendment, the terms and conditions of the Agreement shall remain in full force and effect. The Parties will enter into separate agreements regarding the City's construction of the 30" sewer line on JPB property.
- c. Headings. The subject headings of the articles and paragraphs in this Agreement are included for convenience only and do not affect the

construction or interpretation of any of its provisions.

- d. Modifications. This Agreement may only be modified in a writing executed by both Parties.
- e. Severability. If any portion of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, all remaining portions of the Agreement, or the application thereof, will remain in full force and effect.
- f. Warranty of Authority to Execute Agreement. Each Party to this Agreement represents and warrants that each person whose signature appears hereon is authorized and has the full authority to execute this Agreement on behalf of the entity that is a Party to this Agreement.

IN WITNESS WHEREOF, City and the JPB have entered into this Agreement as of the date first noted above

CITY OF SAN MATEO

By:

Name: Eric Rodriguez
Its: Mayor

Approved as to Form:

Legal Counsel for the City

PENINSULA CORRIDOR JOINT POWERS BOARD

By:

Name: Michelle Bouchard
Its: Interim Executive Director

Attest:

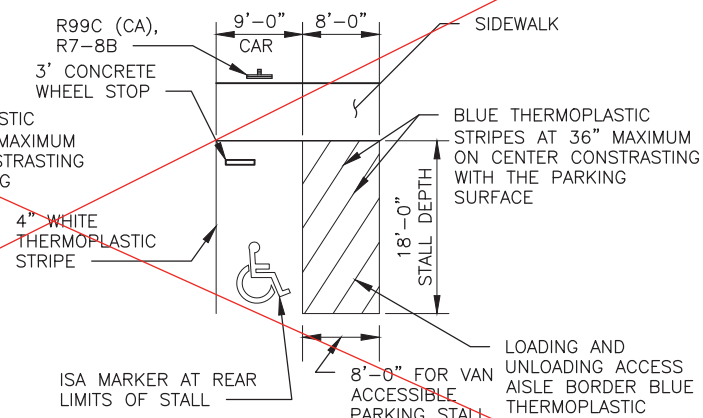
JPB Secretary

Approved as to Form:

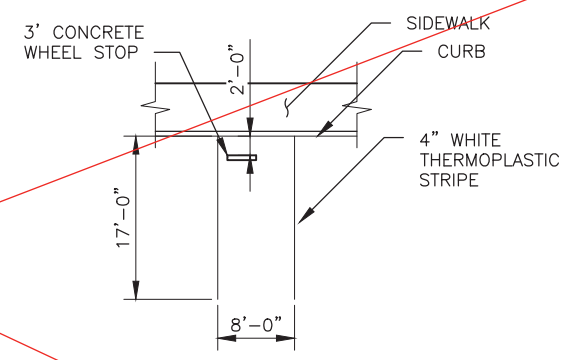
Legal Counsel for the JPB

EXHIBIT A

City shall construct the sidewalk, retaining walls and bio swale generally along the City sewer alignment as shown on the attached plans from Caltrain Contract No. 17-J-C-048 (Sheets C260, C261, C263-C264, C404-C407, C440, C443, E107-E109, S964, S967-S975), attached, and pursuant to Caltrain's standard specifications, dated 2011.



2 ADA VAN PARKING DETAIL
C260 SCALE: NTS



4 COMPACT PARKING DETAIL
C260 SCALE: NTS

1. The bubbled items are to be constructed as part of Delaware Sewer Relief Project.
2. The crossed out items are not to be constructed as part of the Delaware Sewer Relief Project.



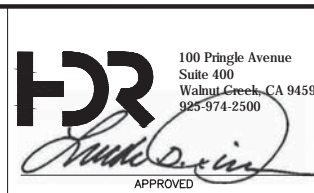
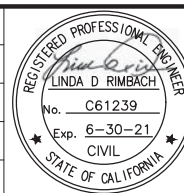
1. SEE LAYOUT FOR APPLICABLE SIDEWALK, CURB AND GUTTER, AND ISLAND OFFSET AND DIMENSIONS.



8 DETAIL
C260 SCALE: NTS

[illegible]

DESIGNED	C. O'GARA
DRAWN	A. CROSS
CHECKED	M. SHIPPEN
IN CHARGE	L. RIMBACH
DATE	07312017



DEPUTY DIRECTOR	S. CHAO
PROJECT MANAGER	R. BOLON
STRUCTURES	C. CHEN
TRACK/CIVIL	S. CHAO

ADD FILE NAME		CADD DATE	
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SCALE			
TS			
CONTRACT NO		MILEPOST	
7-J-C-048		19.0-20.3	
WG NO		REV	PAGE NO
C260		3	

NOTES:

1. CULVERT STEEL TOP PLATES SHALL AS FOLLOWS:

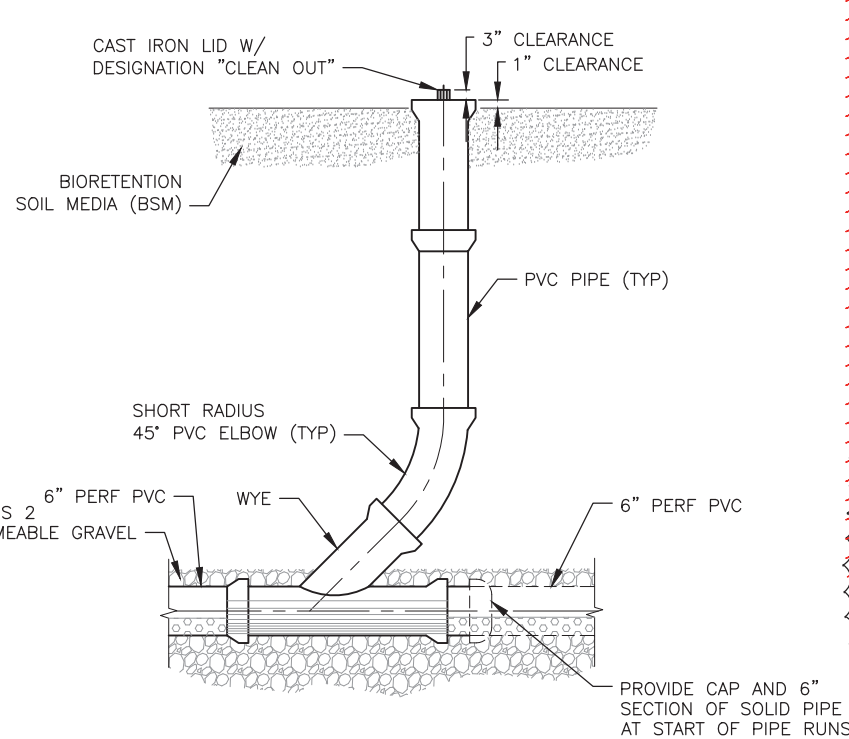
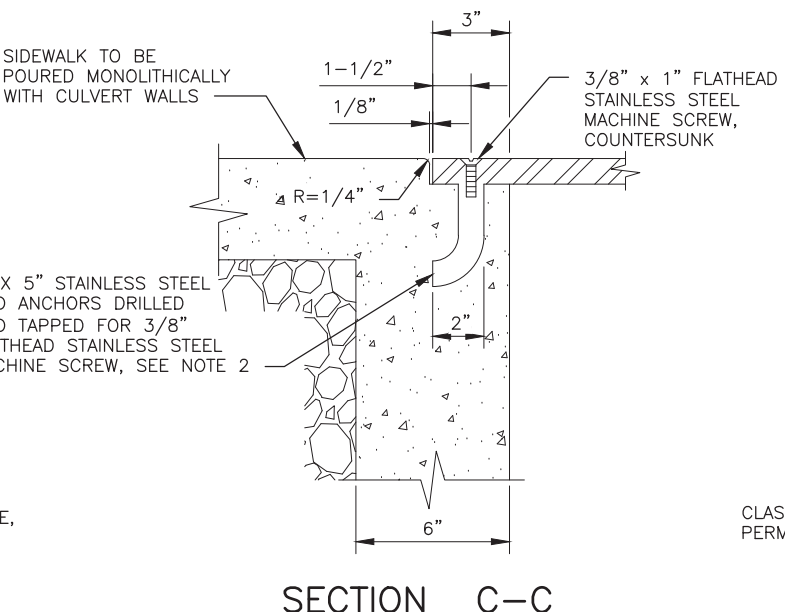
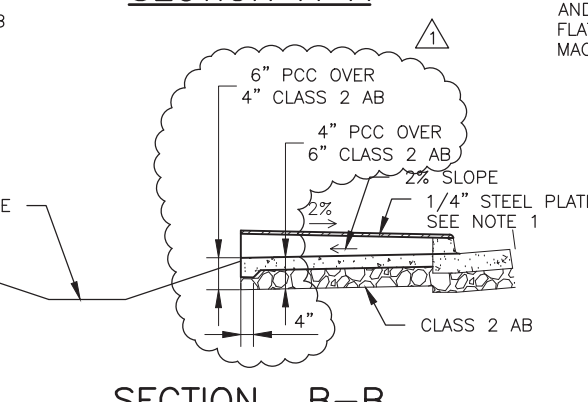
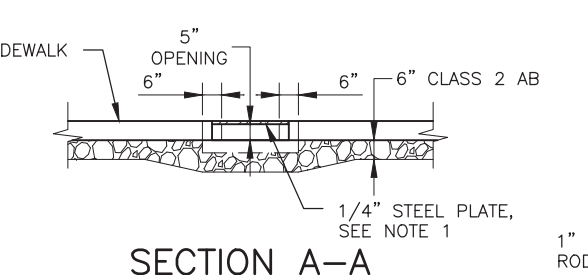
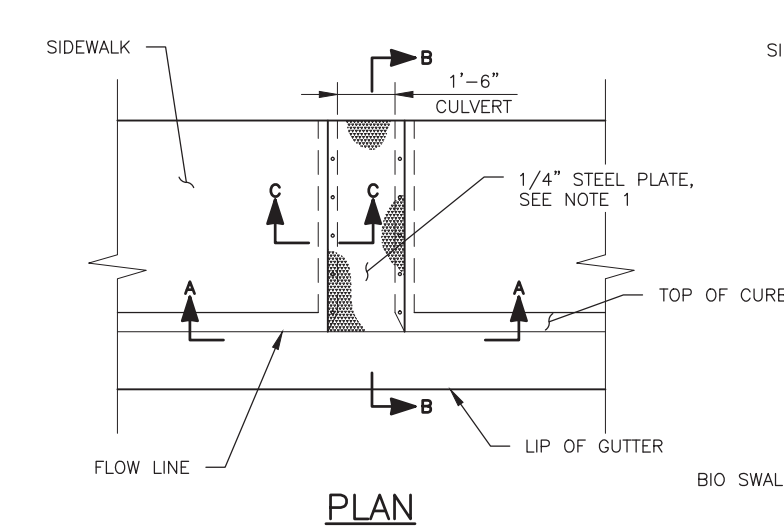
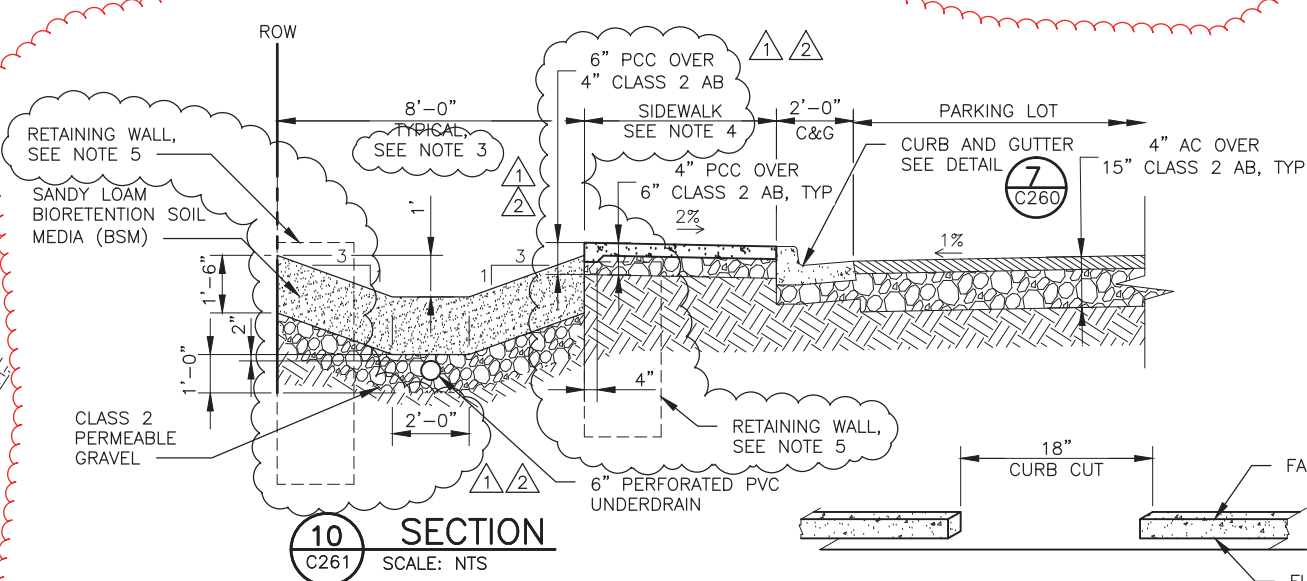
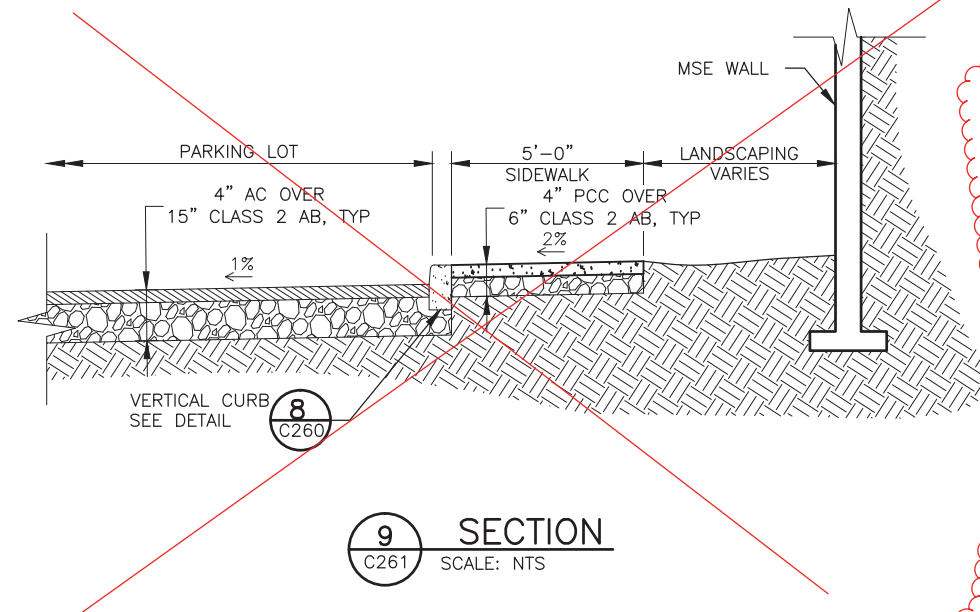
- CUT PERPENDICULAR TO CULVERT WALLS UNLESS NOTED OTHERWISE.
- LENGTHS SHALL BE SUCH THAT THE WEIGHT PER PLATE DOES NOT EXCEED 300 POUNDS.
- THEY SHALL BE STRESS RELIEVED AND STRAIGHTENED AFTER FABRICATION AND THEN GALVANIZED.
- TOP OF STEEL PLATE SHALL HAVE A MINIMUM COEFFICIENT OF STATIC FRICTION OF 0.5, FOR EITHER WET OR DRY CONDITIONS, WHEN TESTED FOR ANY SHOE MATERIAL. TESTING OF AND CERTIFICATION OF THE FRICTION FACTOR SHALL BE CONDUCTED BY AN INDEPENDENT TESTING LAB APPROVED BY THE ENGINEER UNDER THE DIRECTION OF A REGISTERED CIVIL MECHANICAL OR QUALITY ENGINEER. TESTING SHALL CONFORM TO ASTM D2047 OR F489 OR F609 OR OTHER PROCEDURE APPROVED THE THE ENGINEER.

2. STAINLESS STEEL ROD ANCHORS SHALL BE SPACES A MAXIMUM OF 24" C-C WITH A MINIMUM OF TWO PER SIDE PER PLATE. THERE SHALL BE AN ANCHOR WITHIN 6" OF EACH END. THE ANCHORS SHALL BE ATTACHED TO THE PLATES AND THE PLATES SECURED IN PLACE PRIOR TO POURING THE WALLS.

3. SEE GRADING PLANS FOR TYPICAL SWALE DETAIL WITHIN LIMITS OF RETAINING WALLS.

4. SEE PARKING LOT LAYOUT PLANS FOR SIDEWALK WIDTH.

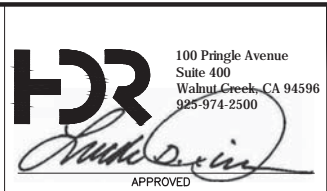
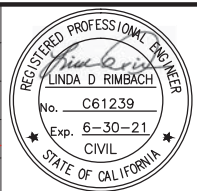
5. SEE STRUCTURAL PLANS FOR RETAINING WALL LAYOUTS AND DETAILS. RETAINING WALL NOT SHOWN FOR CLARITY.



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1	041720	CO	CO	LR	REVISED PER CHANGE NOTICE 059						
0	073117				CONFORMED						

DESIGNED
C. O'GARA
DRAWN
C. O'GARA
CHECKED
M. SHIPPEN
IN CHARGE
L. RIMBACH
DATE
07312017



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD				CADD FILE NAME	CADD DATE
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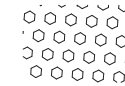
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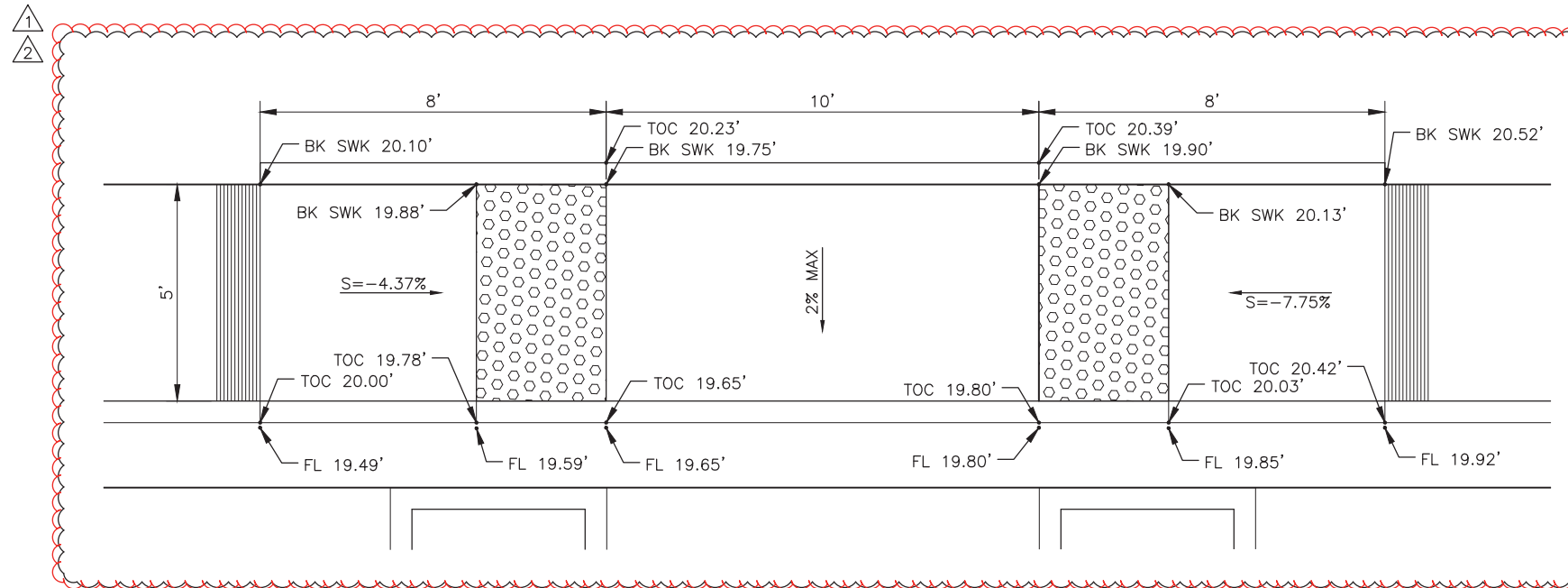
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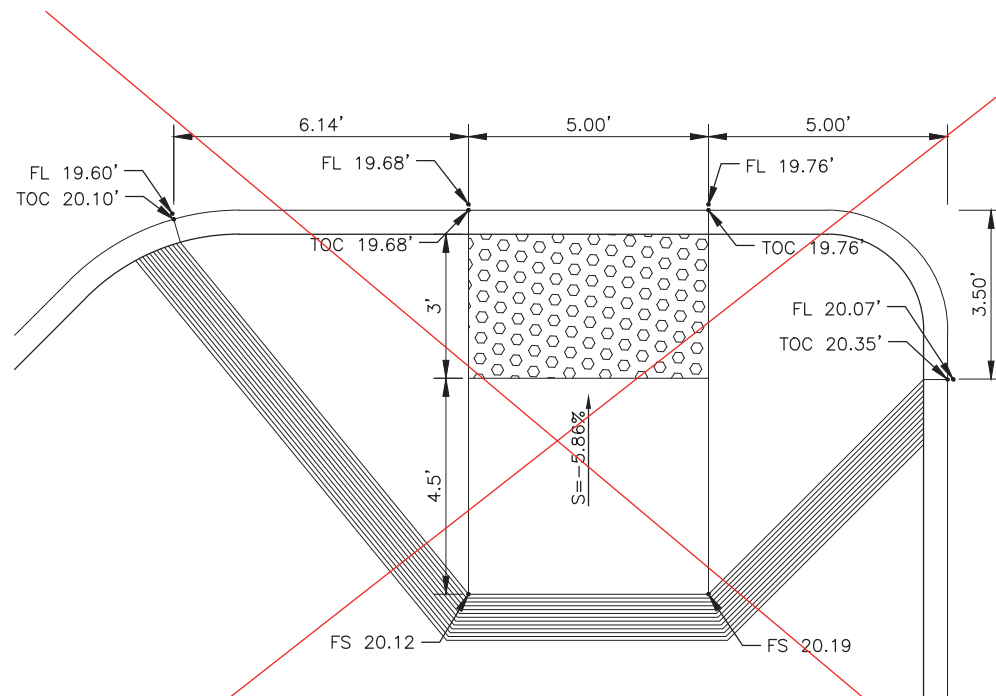
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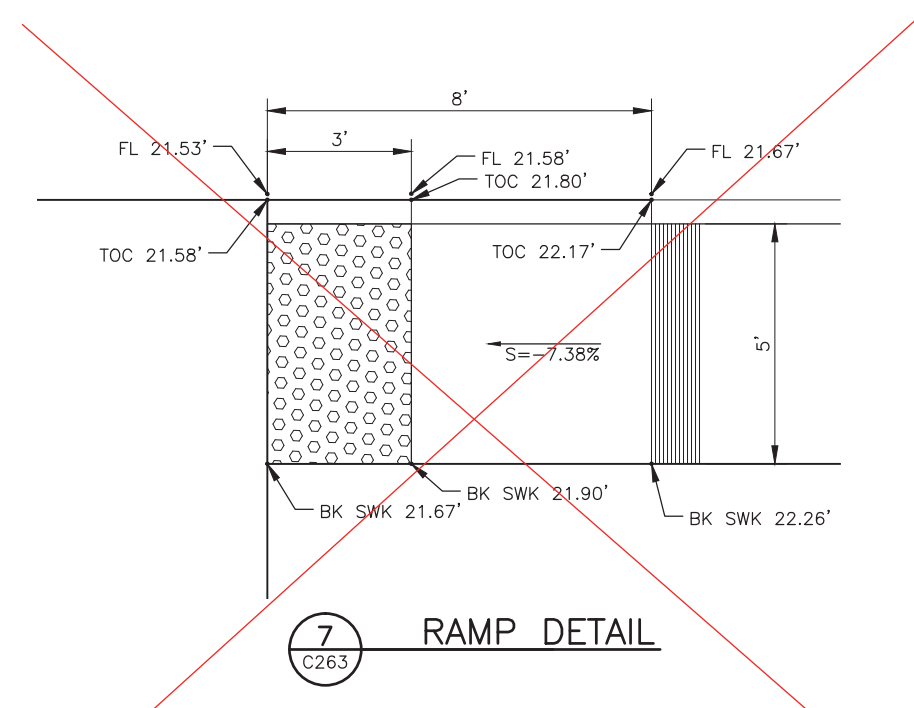
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5 RAMP DETAIL
C263



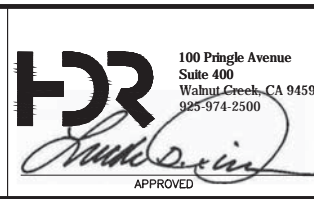
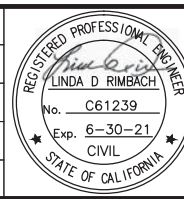
6 RAMP DETAIL
C263



7 RAMP DETAIL
C263

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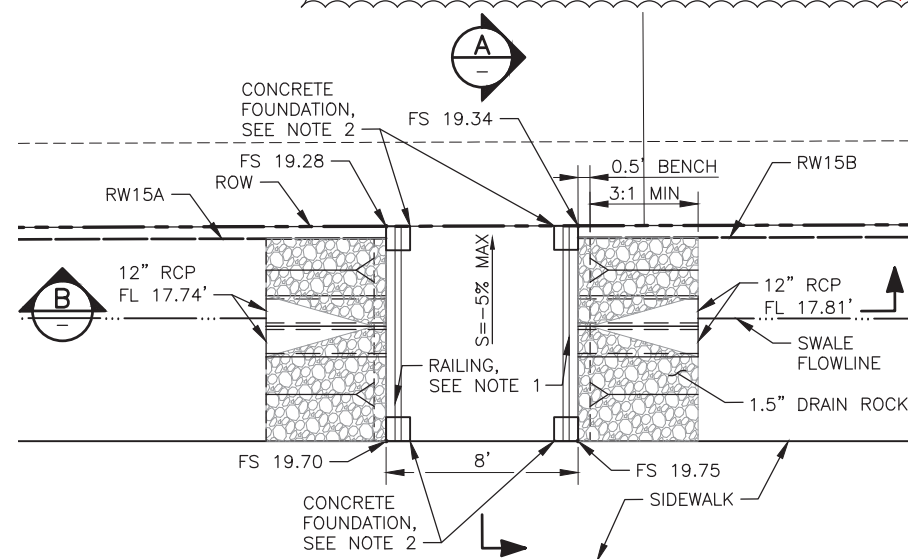
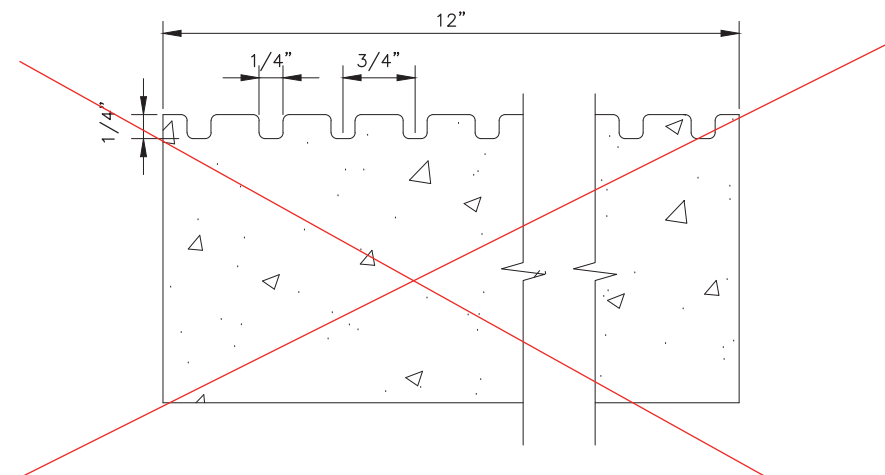
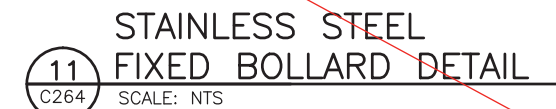
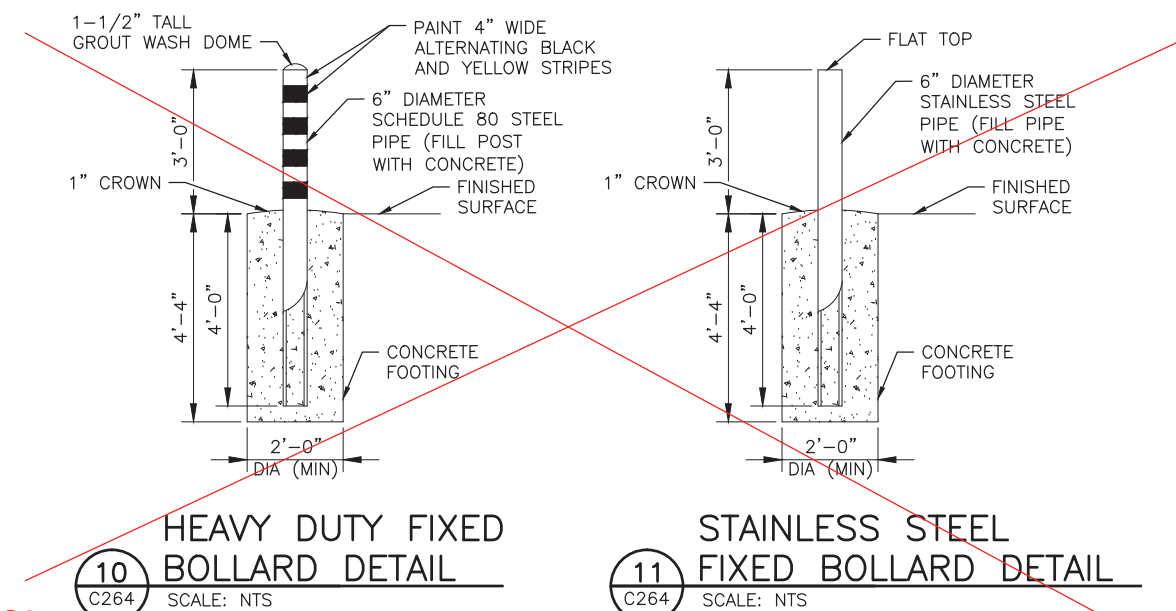
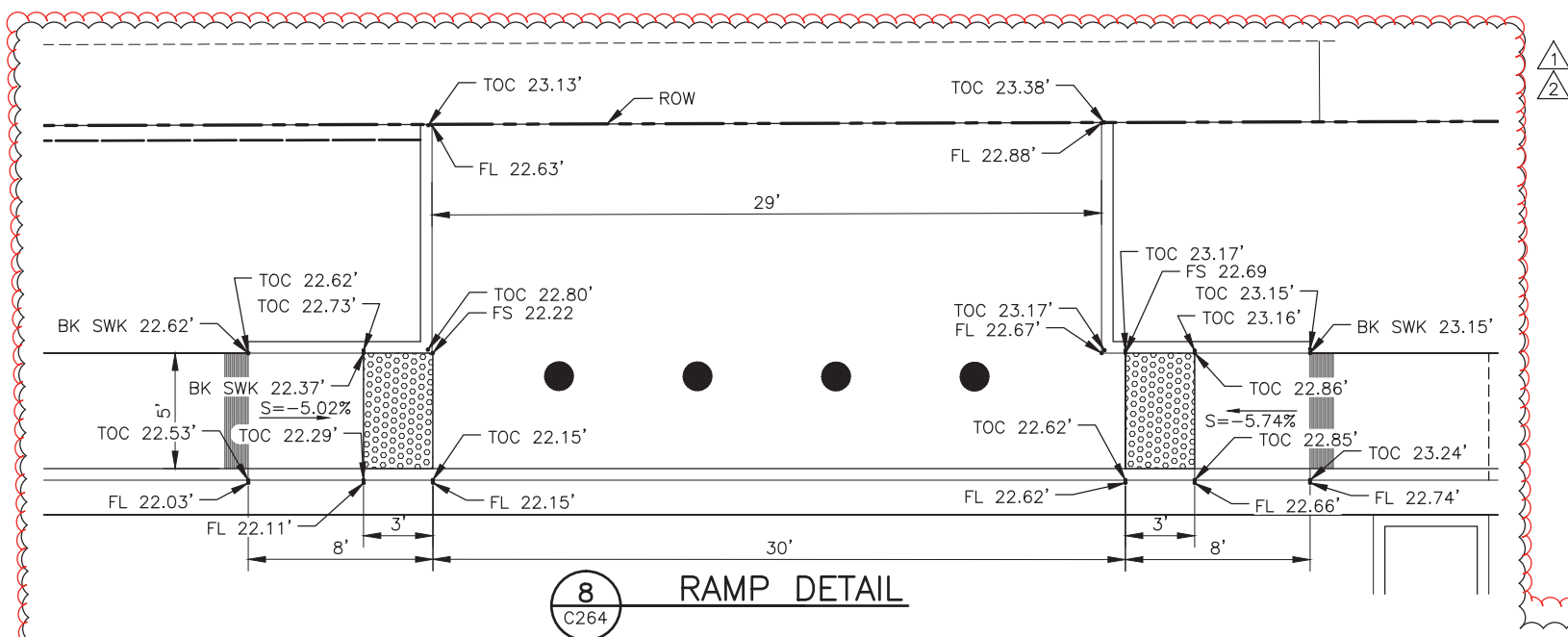
DESIGNED
C. O'GARA
DRAWN
I. KUKANEGO
CHECKED
M. SHIPPEN
IN CHARGE
L. RIMBACH
DATE
07312017



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD
SAN MATEO 25TH AVENUE
GRADE SEPARATION
PARKING LOT DETAILS
SHEET 4 OF 6

CADD FILE NAME tfaC263-2	CADD DATE 09082020
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CONTRACT NO 17-J-C-048	REV 2
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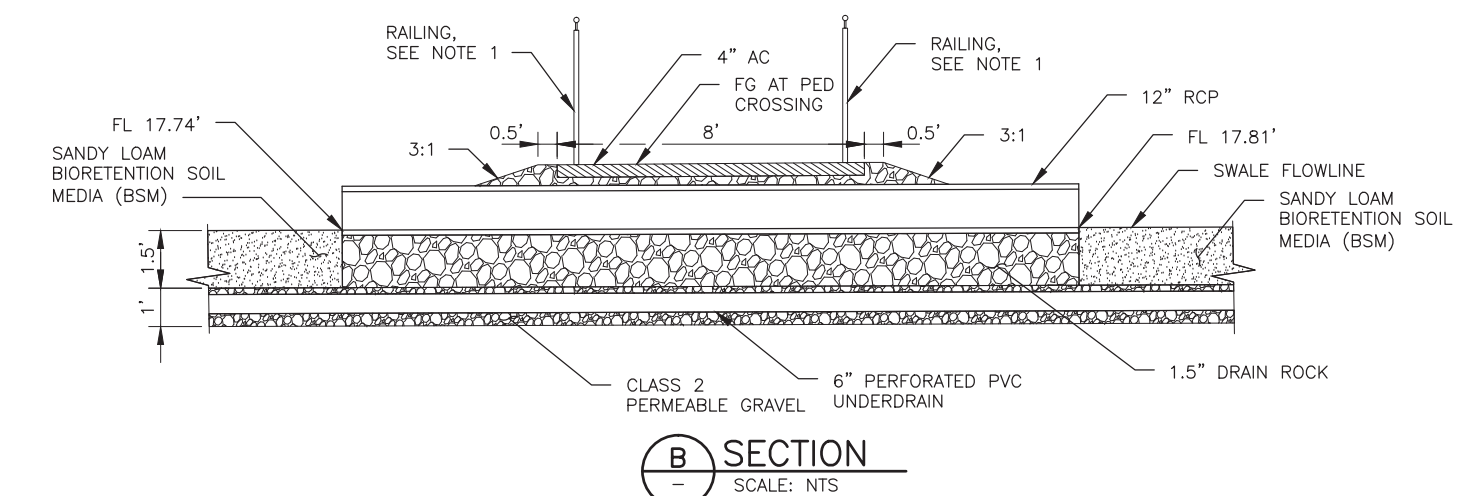
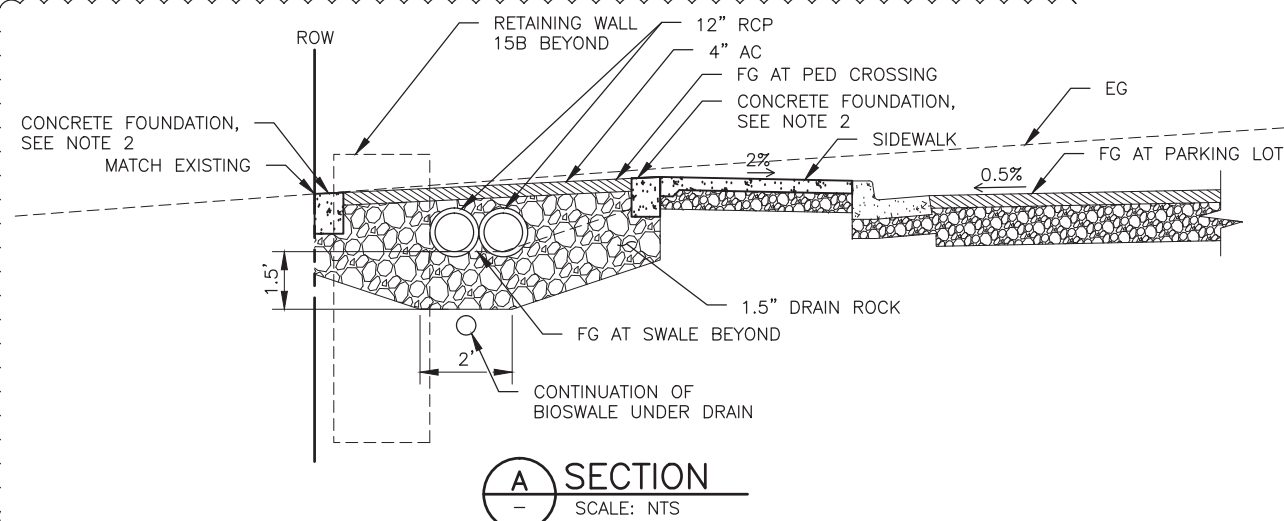
NOTES:

1. SEE CALTRAIN STANDARD DETAIL SD-3602 FOR PEDESTRIAN RAILING
2. FINAL RAILING FOUNDATION AND ANCHORAGE DESIGN DEPENDENT ON RETAINING WALL TYPE AS APPROVED BY ENGINEER.

LEGEND:



DETECTABLE WARNING SURFACE

[illegible]

DESIGNED
C. O'GARA
DRAWN
I. KUKANEGO
CHECKED
M. SHIPPEN
IN CHARGE
L. RIMBACH
DATE
07312017


REGISTERED PROFESSIONAL ENGINEER
Linda D Rimbach
No. C61239
Exp. 6-30-21
CIVIL
STATE OF CALIFORNIA

HR 100 Pringle Avenue
Suite 400
Walnut Creek, CA 94595
925-974-2500

Paula D. ...

APPROVED

Caltrain
1250 San Carlos Avenue
San Carlos, CA 94070

	DEPUTY DIRECTOR
	S. CHAO
	PROJECT MANAGEMENT
	R. BOLON
	STRUCTURES
	C. CHEN
	TRACK/CIVIL
	S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD	
SAN MATEO 25TH AVENUE GRADE SEPARATION	
PARKING LOT DETAILS SHEET 5 OF 6	

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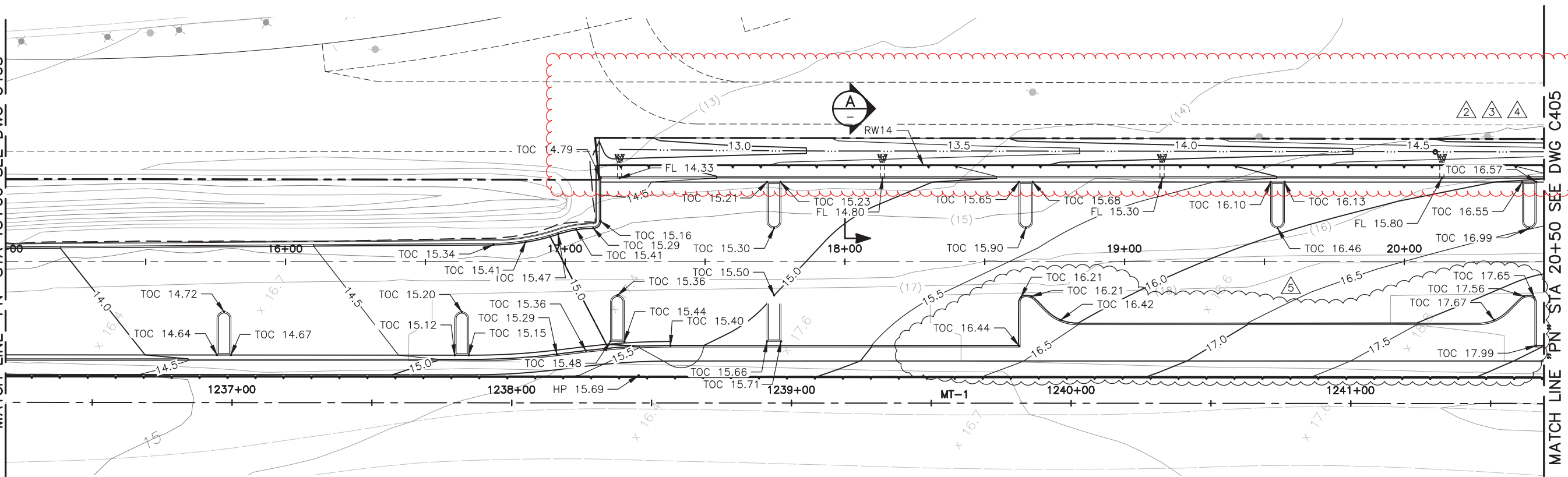
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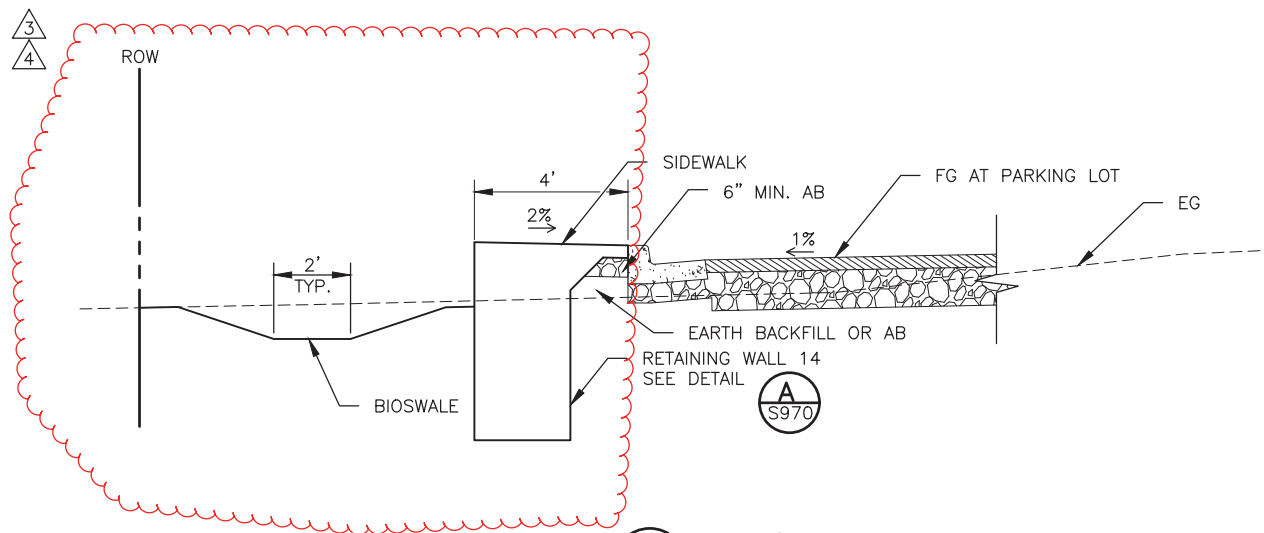
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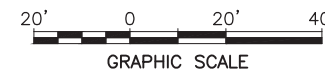
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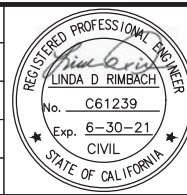


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1	110317	CO	CO	LR	REVISED PER CHANGE NOTICE 08						
0	073117				CONFORMED	5	102320	CO	CO	GL	REVISED PER CHANGE NOTICE 088

DESIGNED
C. O'GARA
DRAWN
C. O'GARA
CHECKED
M. SHIPPEN
IN CHARGE
L. RIMBACH
DATE
07312017



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD

SAN MATEO 25TH AVENUE
GRADE SEPARATION

CONTOUR GRADING PLAN
SHEET 7 OF 11

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PAGE NO	

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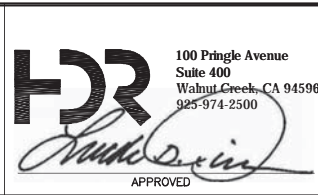
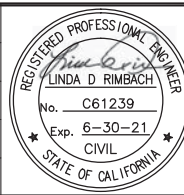
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CITY:

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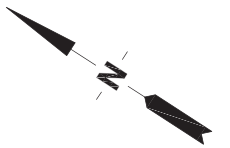
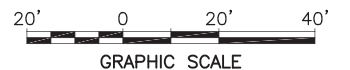
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1	110317	CO	CO	LR	REVISED PER CHANGE NOTICE 08						
0	073117				CONFORMED						

DESIGNED
C. O'GARA
DRAWN
C. O'GARA
CHECKED
M. SHIPPEN
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L. RIMBACH
DATE
07312017



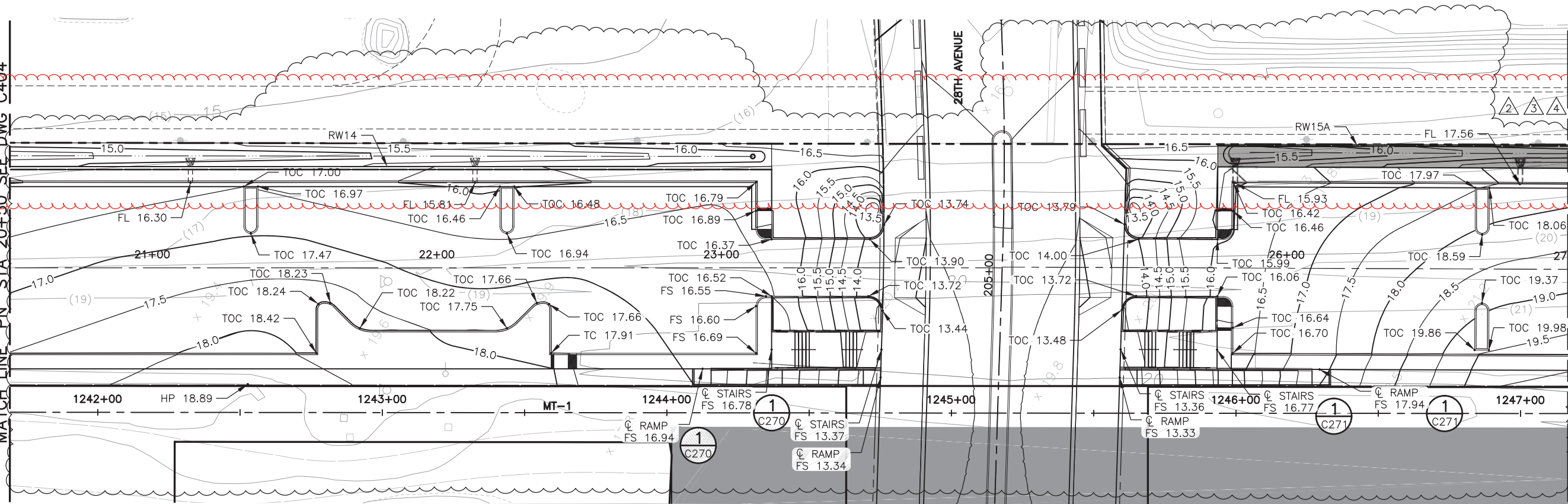
DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

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COUNTY:

CITY:

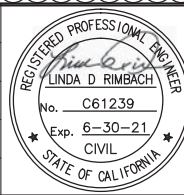
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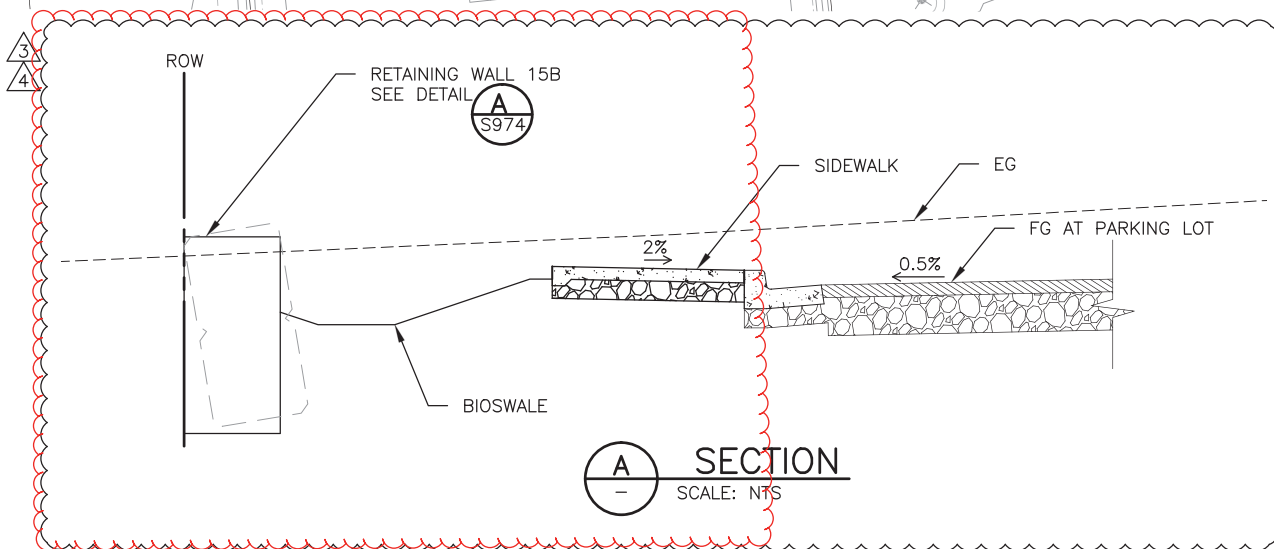
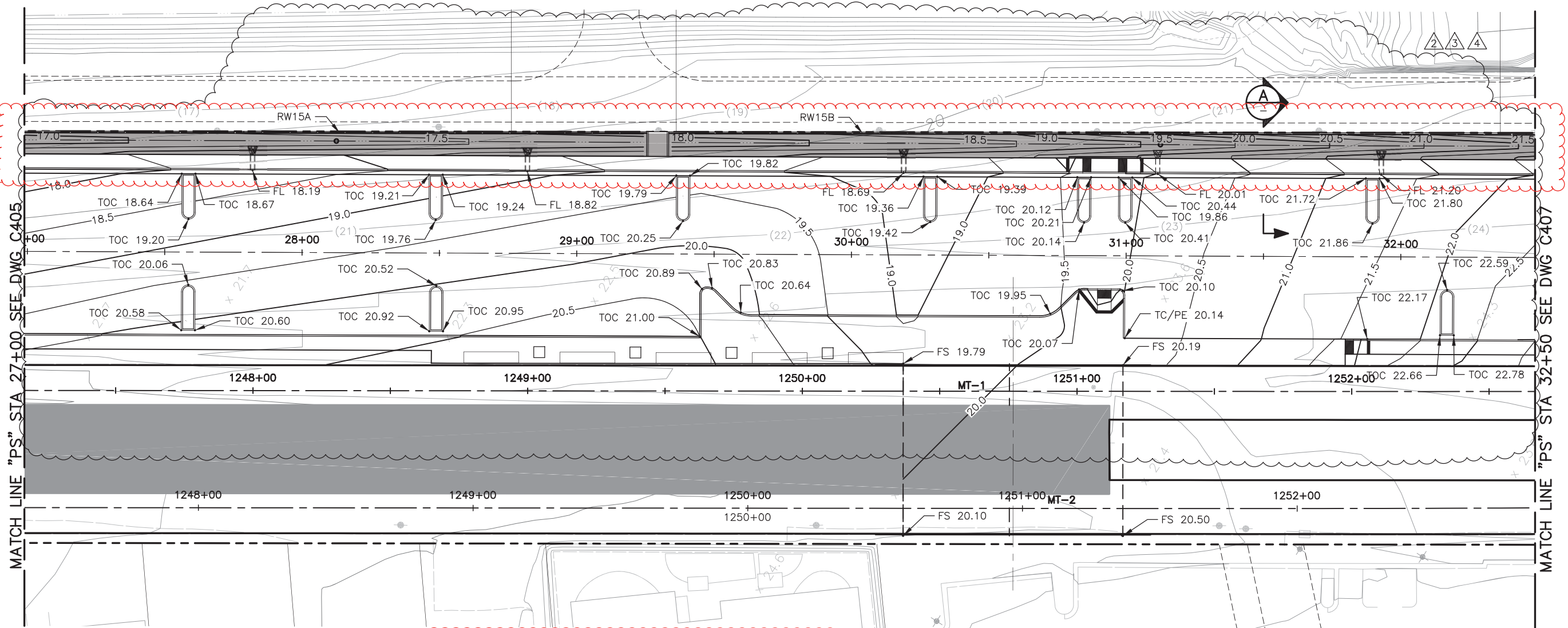
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3	041720	CO	CO	LR	REVISED PER CHANGE NOTICE 059						
2	070318	CO	CO	LR	REVISED PER CHANGE NOTICE 027						
1	110317	CO	CO	LR	REVISED PER CHANGE NOTICE 08						
0	073117				CONFORMED						

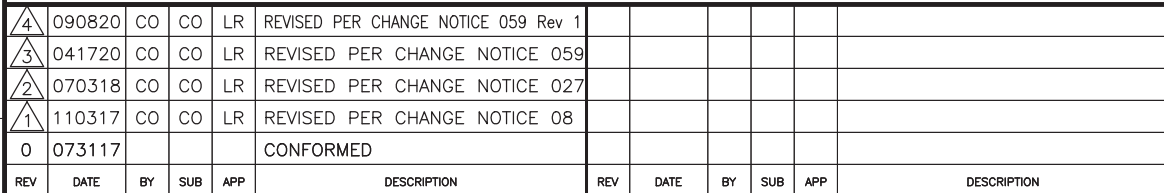
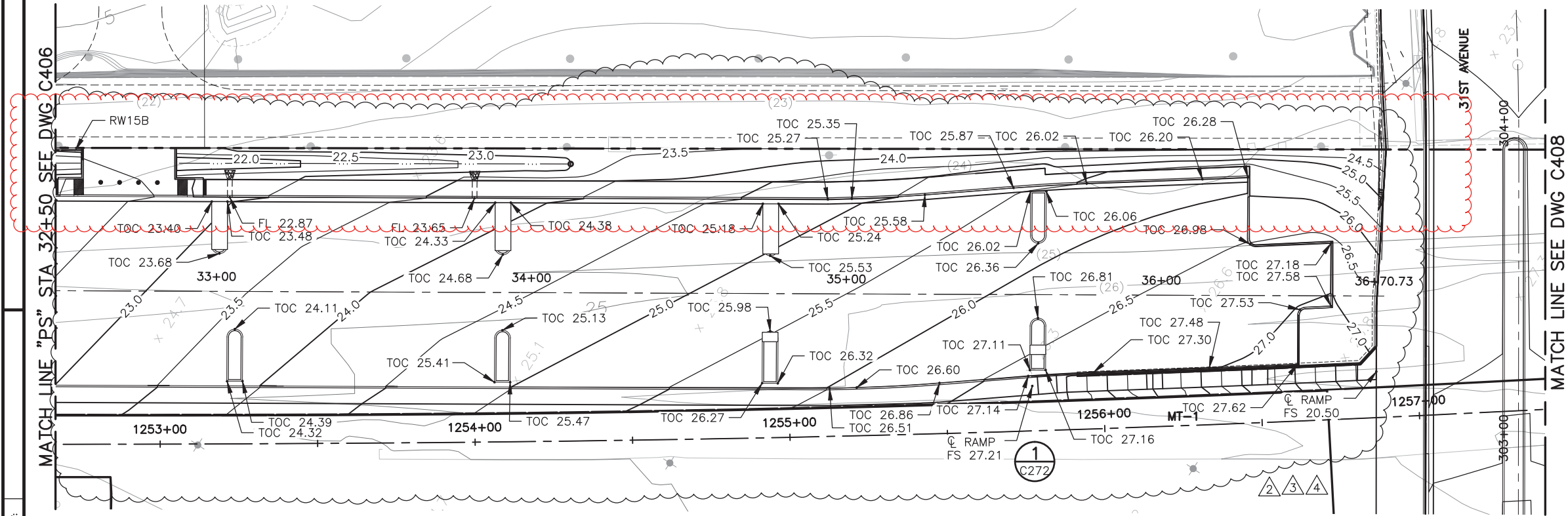
DESIGNED
C. O'GARA
DRAWN
C. O'GARA
CHECKED
M. SHIPPEN
IN CHARGE
L. RIMBACH
DATE
07312017



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD			CADD FILE NAME	CADD DATE
SAN MATEO 25TH AVENUE GRADE SEPARATION			tfaC406-4	09082020
CONTOUR GRADING PLAN SHEET 9 OF 11			SCALE 1"=20'	MILEPOST 19.0-20.3
			CONTRACT NO 17-J-C-048	REV 4
			DWG NO C406	PAGE NO 4





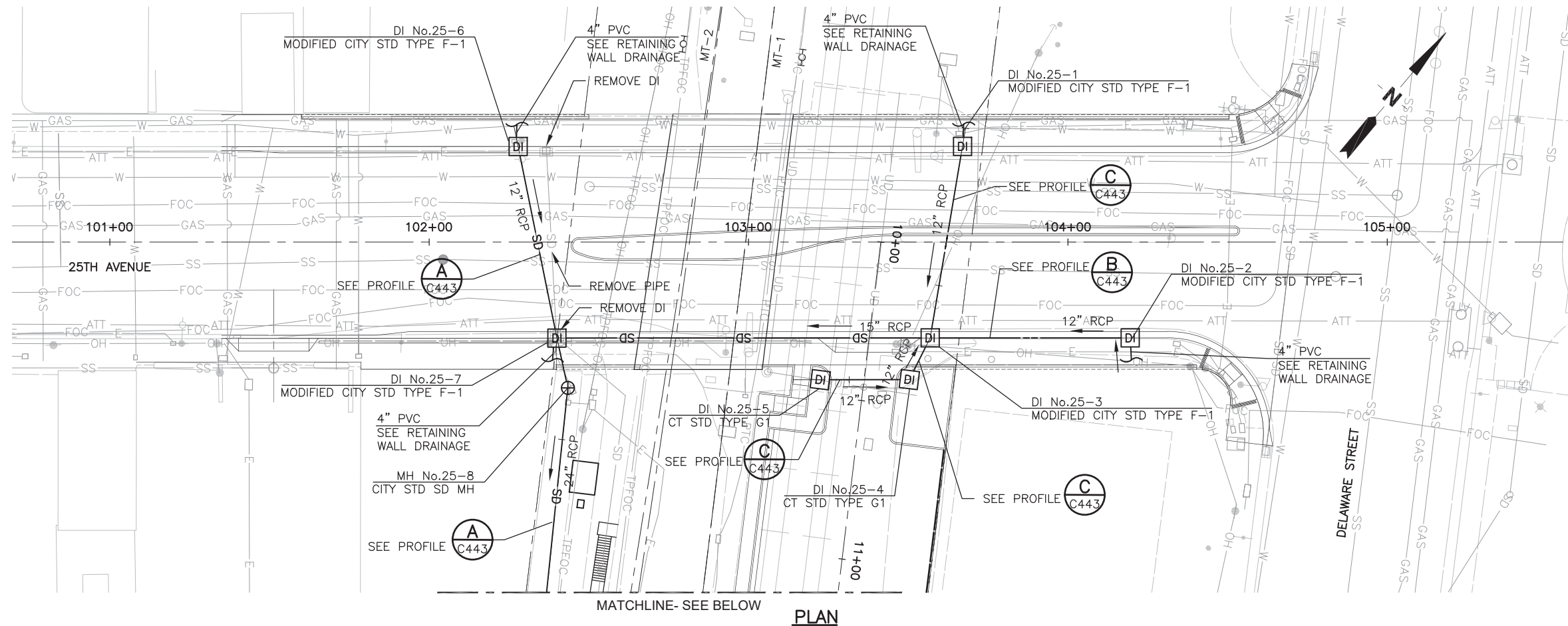
DESIGNED C. O'GARA
DRAWN C. O'GARA
CHECKED M. SHIPPEN
IN CHARGE L. RIMBACH
DATE 07312017



DEPUTY DIRECTOR	S. CHAO
PROJECT MANAGEMENT	R. BOLON
STRUCTURES	C. CHEN
TRACK/CIVIL	S. CHAO

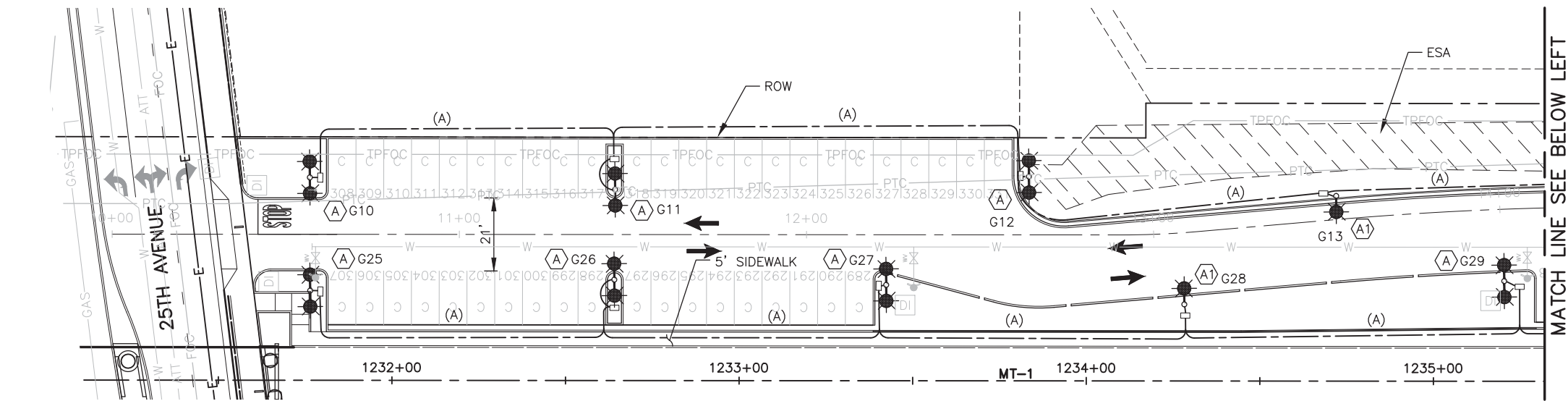
CONTOUR GRADING PLAN
SHEET 10 OF 11 

CADD FILE NAME tfaC407-4		CADD DATE 09082020	
SCALE 1"=20'			
CONTRACT NO 17-J-C-048		MILEPOST 19.0-20.3	
DWG NO C407		REV 4	PAGE NO



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CITY: COUNTY: CONTROL POINT:



- LEGEND**
- PROPOSED SINGLE ELECTROLIER - LEOTEK AR13 10M 43W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
 - PROPOSED SINGLE ELECTROLIER - LEOTEK AR13 6M 29W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
 - PROPOSED BACK TO BACK ELECTROLIER - LEOTEK AR13 10M 43W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
 - PROPOSED BACK TO BACK ELECTROLIER - LEOTEK AR13 6M 29W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
 - PROPOSED No. 3 1/2 PULLBOX
 - PROPOSED PARKING LOT LIGHTING CONDUIT
 - GXX LIGHTING FIXTURE/POLE NUMBER

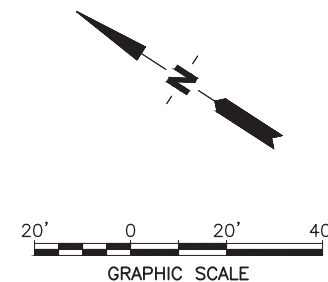
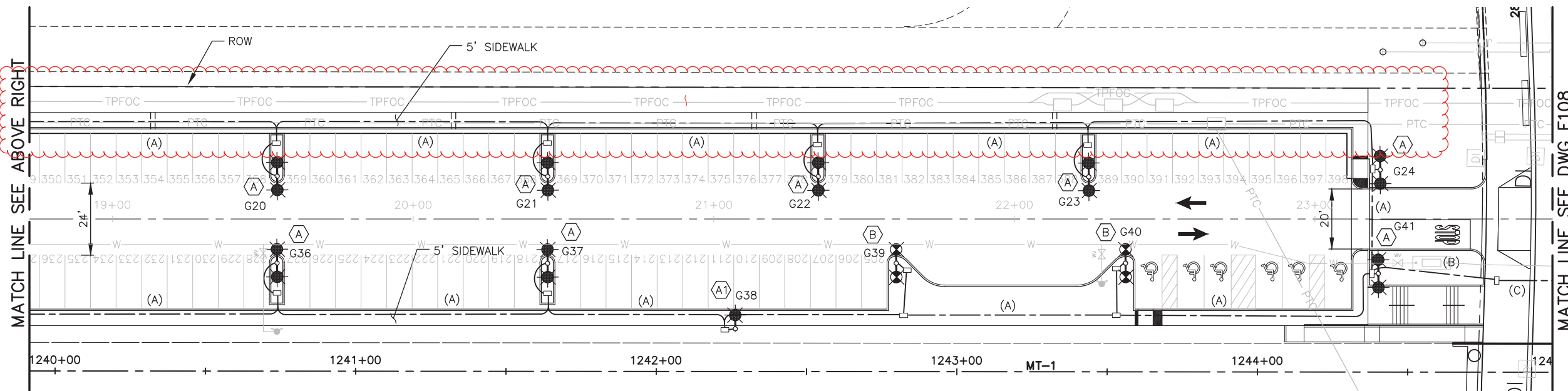
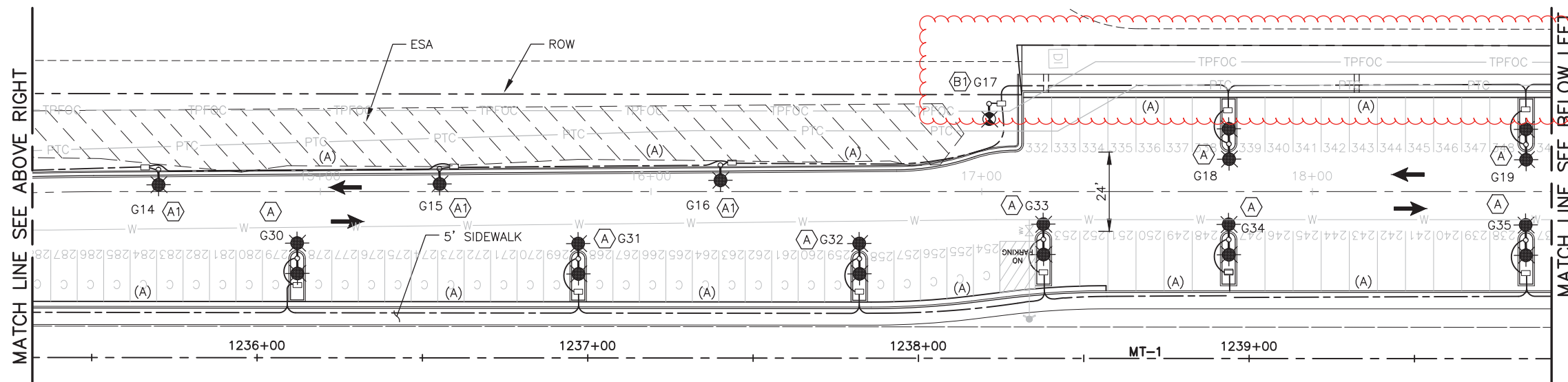
NOTES:

- FOR PARKING LOT LIGHTING FIXTURE SCHEDULE SEE SHEET E003
- FOR PARKING LOT LIGHTING POLE AND FOUNDATION DETAILS SEE SHEET E109

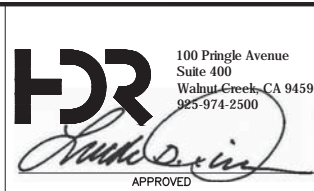
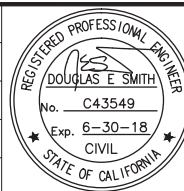
CONDUIT AND WIRE SCHEDULE

(A)	1 1/4"C, 2#6, 1#6G
(B)	1 1/4"C, 4#4, 1#4G
(C)	2"C, 4#4, 1#4G

NOTE: SCHEDULE IS FOR THIS SHEET ONLY.



DESIGNED
P. KERESZTES
DRAWN
H. LAI
CHECKED
D. SMITH
IN CHARGE
L. RIMBACH
DATE
07312017



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD		CADD FILE NAME tfaE107-0	CADD DATE 12122016
SAN MATEO 25TH AVENUE GRADE SEPARATION		SCALE 1"=20'	MILEPOST 19.0-20.3
PARKING LOT LIGHTING PLAN SHEET 1 OF 2		CONTRACT NO 17-J-C-048	REV 0
		DWG NO E107	PAGE NO 287

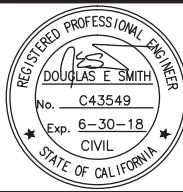
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COUNTY: 0 073117 CONFORMED

REV DATE BY SUB APP DESCRIPTION

REV DATE BY SUB APP DESCRIPTION

DESIGNED
P. KERESZTES
DRAWN
H. LAI
CHECKED
D. SMITH
IN CHARGE
L. RIMBACH
DATE
07312017



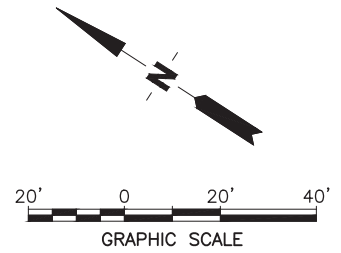
DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD
SAN MATEO 25TH AVENUE
GRADE SEPARATION
PARKING LOT LIGHTING PLAN
SHEET 2 OF 2

CADD FILE NAME
tfaE108-0
SCALE
1"=20'
CONTRACT NO
17-J-C-048
DWG NO
E108
CADD DATE
12122016
MILEPOST
19.0-20.3
REV PAGE NO
0 288

LEGEND

- PROPOSED SINGLE ELECTROLIER - LEOTEK AR13 10M 43W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
- PROPOSED SINGLE ELECTROLIER - LEOTEK AR13 6M 29W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
- PROPOSED BACK TO BACK ELECTROLIER - LEOTEK AR13 10M 43W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
- PROPOSED BACK TO BACK ELECTROLIER - LEOTEK AR13 6M 29W LED WITH TYPE 3 DISTRIBUTION ON 30 FT POLE
- PROPOSED No. 3 1/2 PULLBOX
- PROPOSED PARKING LOT LIGHTING CONDUIT
- (A) GXX LIGHTING FIXTURE/POLE NUMBER



NOTES:

- FOR PARKING LOT LIGHTING POLE SCHEDULE SEE SHEET E003
- FOR PARKING LOT LIGHTING POLE AND FOUNDATION DETAILS SEE SHEET E109

CONDUIT AND WIRE SCHEDULE

(A)	1 1/4"C, 2#6, 1#6G
(B)	1 1/4"C, 4#4, 1#4G
(C)	2"C, 4#4, 1#4G
(D)	2"C, 8#4, 1#4G

NOTE: SCHEDULE IS FOR THIS SHEET ONLY.

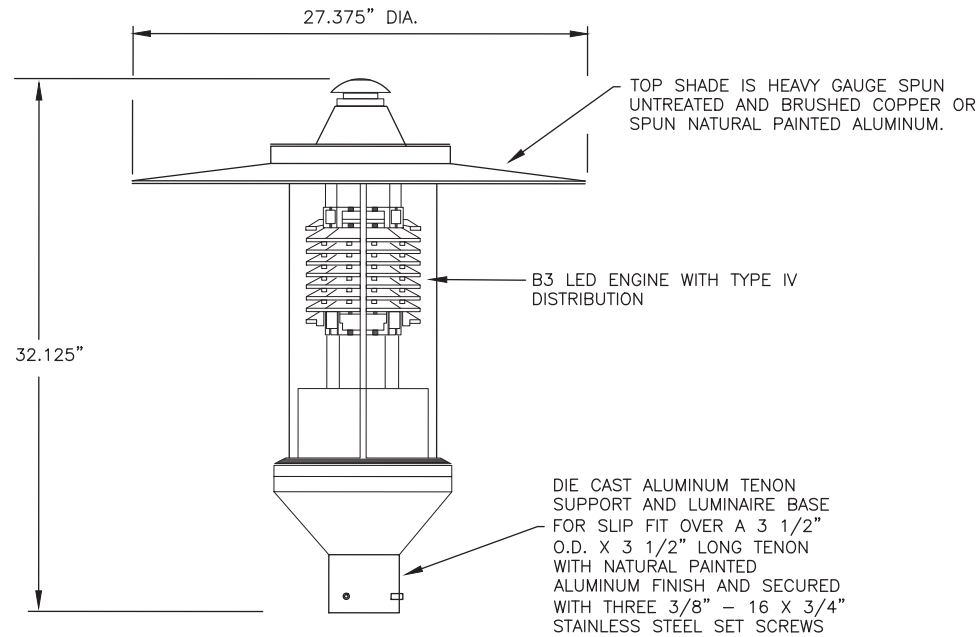
LIGHTS
INSTALLED BY
OTHERS

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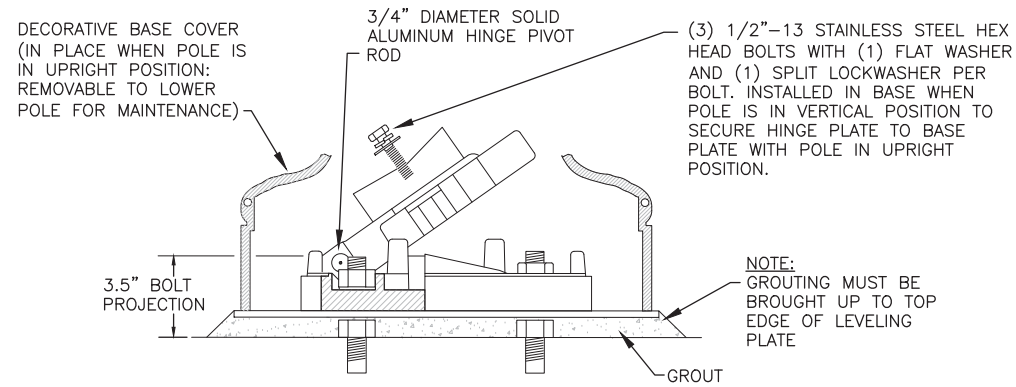
CONTROL POINT:

CITY:

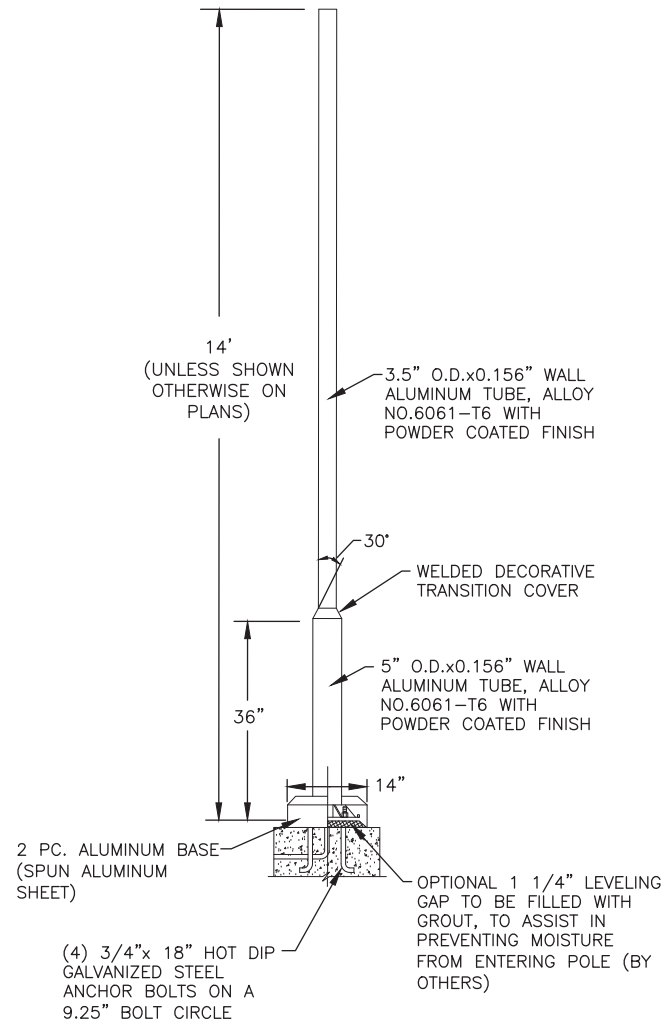
COUNTY:



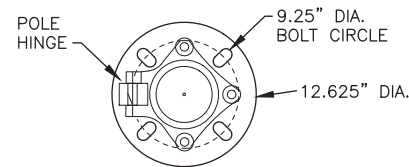
KING LUMINAIRE K551 ECLIPSE
K551R-B3AC-IV-75(SSL)-1036



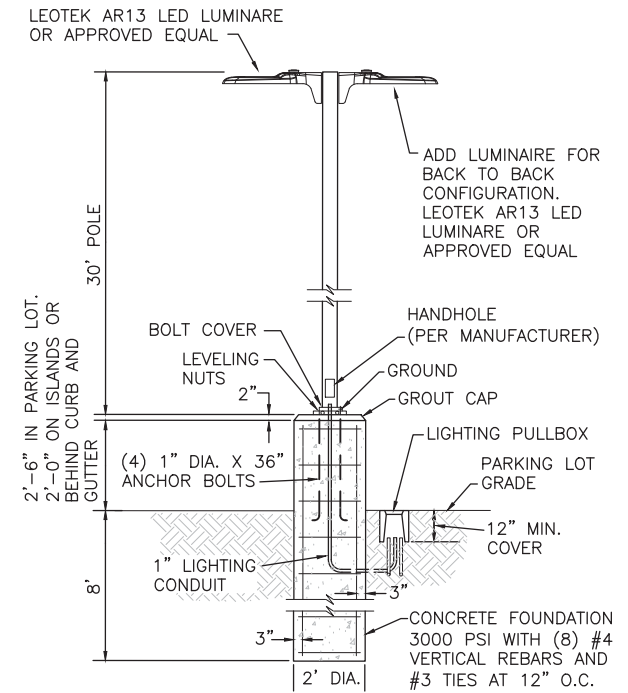
HINGE PLATE AND
GROUTING DETAIL



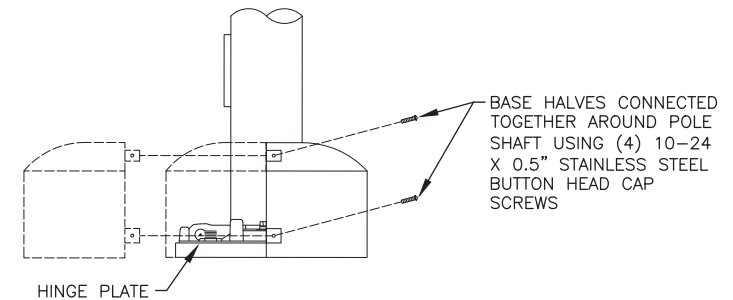
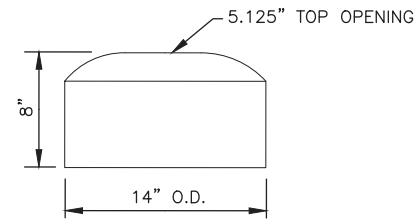
28TH AVENUE AND 31ST AVENUE
ELECTROLIER DETAIL



BASE PLATE



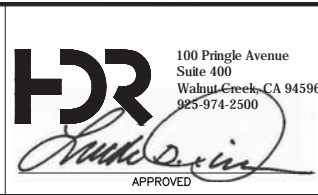
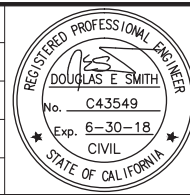
PARKING LOT
ELECTROLIER DETAIL



BASE COVER
DETAIL

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	073117				CONFORMED						

DESIGNED
P. KERESZTES
DRAWN
H. LAI
CHECKED
D. SMITH
IN CHARGE
L. RIMBACH
DATE
07312017



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD

**SAN MATEO 25TH AVENUE
GRADE SEPARATION
STREET LIGHTING AND
PARKING LOT LIGHTING
DETAIL SHEET**

CADD FILE NAME tfaE109-0	CADD DATE 07212017
SCALE NO SCALE	MILEPOST 19.0-20.3
CONTRACT NO 17-J-C-048	REV 0
DWG NO E109	PAGE NO 289

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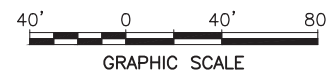
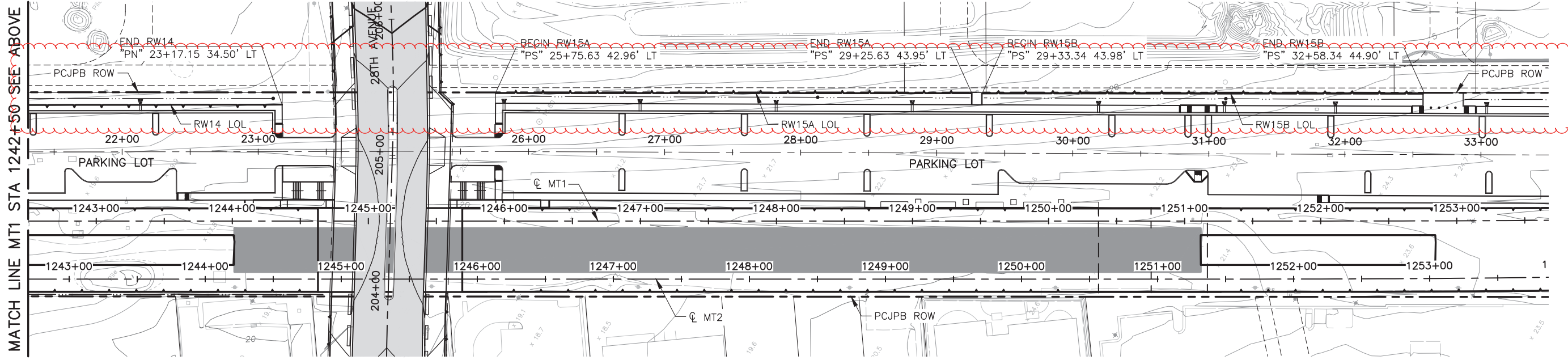
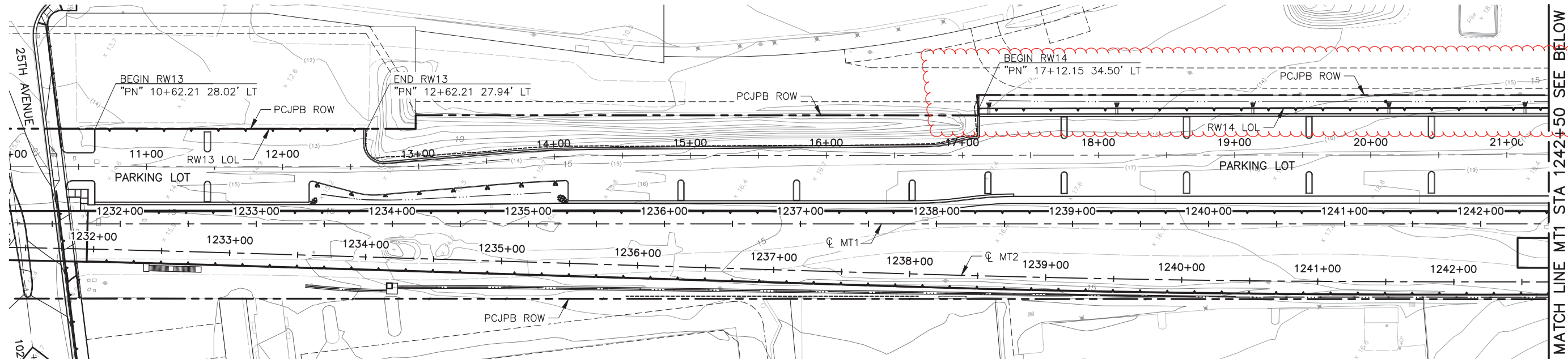
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CITY:

CITY:

CITY:

MATCH LINE MT1 STA 1242+50 SEE ABOVE



REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	090820	JG	JC	JM	ISSUED PER CHANGE NOTICE 059 Rev 1						

DESIGNED
J. CHEN
DRAWN
J. GREEN
CHECKED
J. MANISCALCO
IN CHARGE
L. RIMBACH
DATE
09112019



Caltrain
1250 San Carlos Avenue
San Carlos, CA 94070

DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD
**SAN MATEO 25TH AVENUE
GRADE SEPARATION**
**ULTRA BLOCK RETAINING WALLS
LOCATION PLAN**

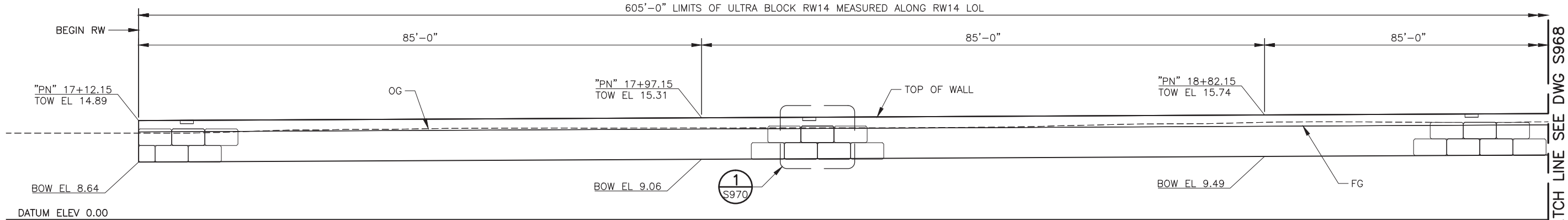
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SCALE 1"=40'	MILEPOST 19.0-20.3
CONTRACT NO 17-J-C-048	REV 0
DWG NO S964	PAGE NO

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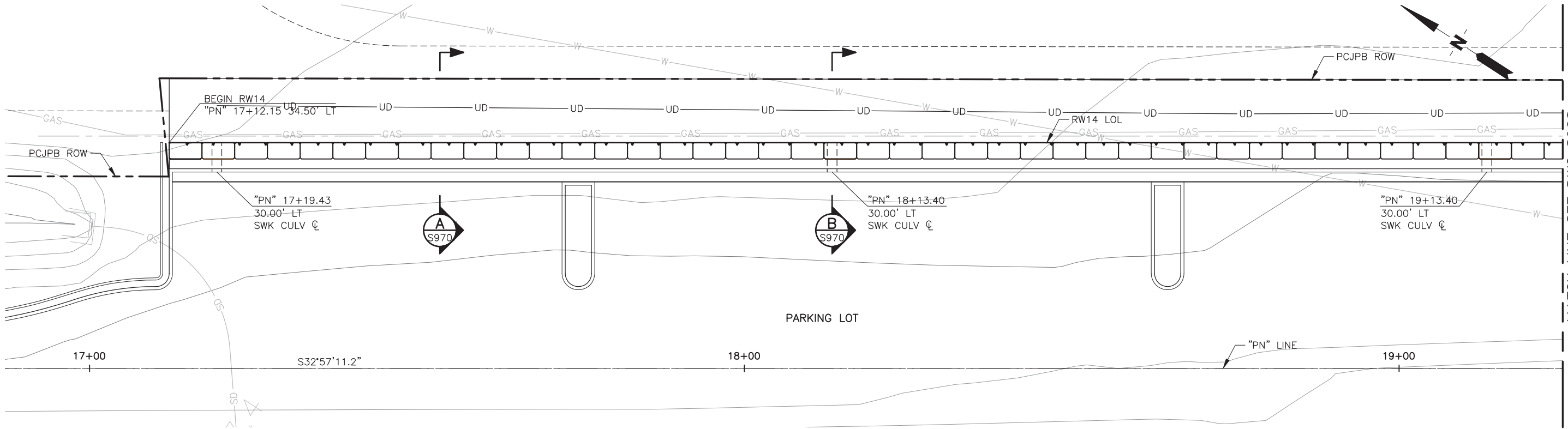
CONTROL POINT:

CITY:

COUNTY:



ELEVATION
SCALE: 1/8" = 1'-0"



PLAN
SCALE: 1/8" = 1'-0"

NOTE:
SEE CIVIL PLANS FOR GRADING.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS
BEFORE PERFORMING ANY WORK OR ORDERING OR FABRICATING ANY MATERIALS.

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
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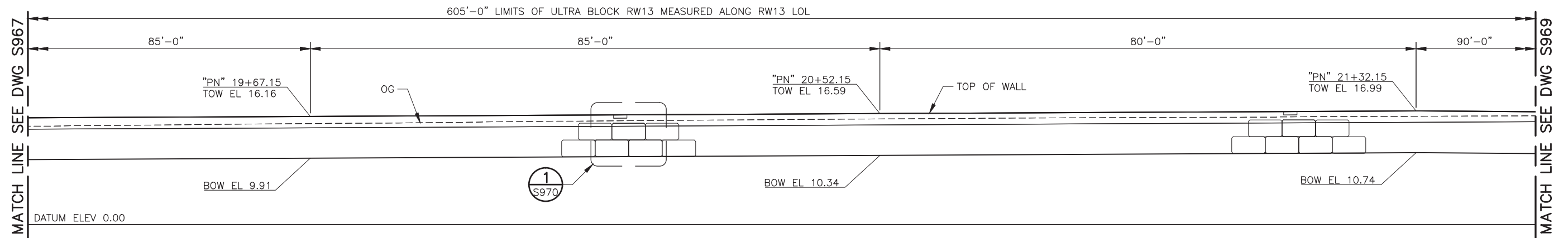
DESIGNED
J. CHEN
DRAWN
J. GREEN
CHECKED
J. MANISCALCO
IN CHARGE
L. RIMBACH
DATE
09112019



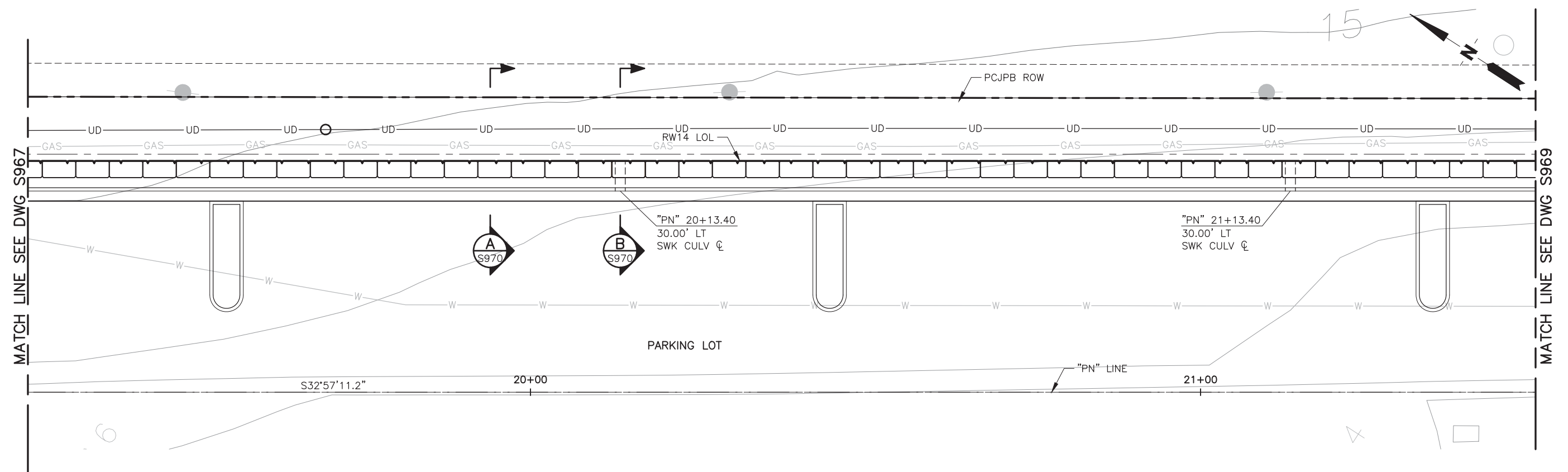
DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD
**SAN MATEO 25TH AVENUE
GRADE SEPARATION**
RETAINING WALL RW14 LAYOUT
SHEET 1 OF 3

CADD FILE NAME tfaS965-0	CADD DATE 09072020
SCALE 1/8"=1'-0"	CONTRACT NO 17-J-C-048
MILEPOST 19.0-20.3	REV 0
DWG NO S967	PAGE NO



ELEVATION
SCALE: 1/8" = 1'-0"



NOTE:
SEE CIVIL PLANS FOR GRADING.

PLAN

SCALE: $1/8" = 1'-0"$



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS
BEFORE PERFORMING ANY WORK OR ORDERING OR FABRICATING ANY MATERIALS.

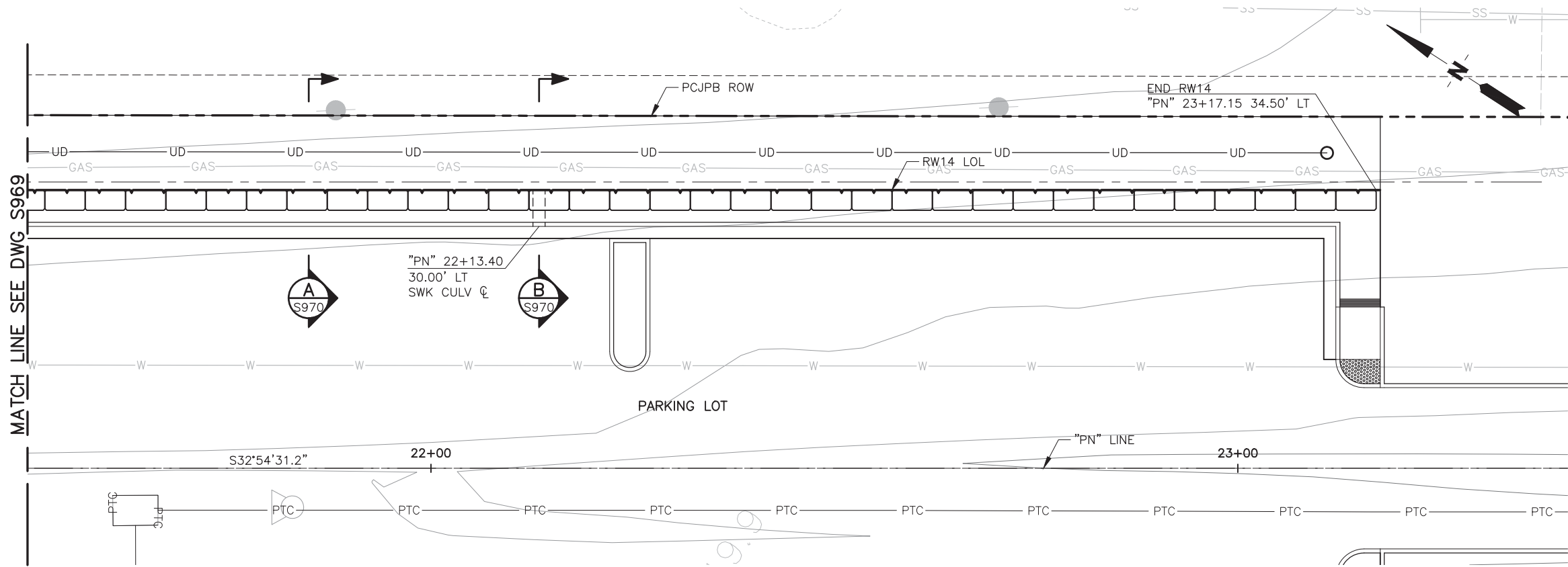
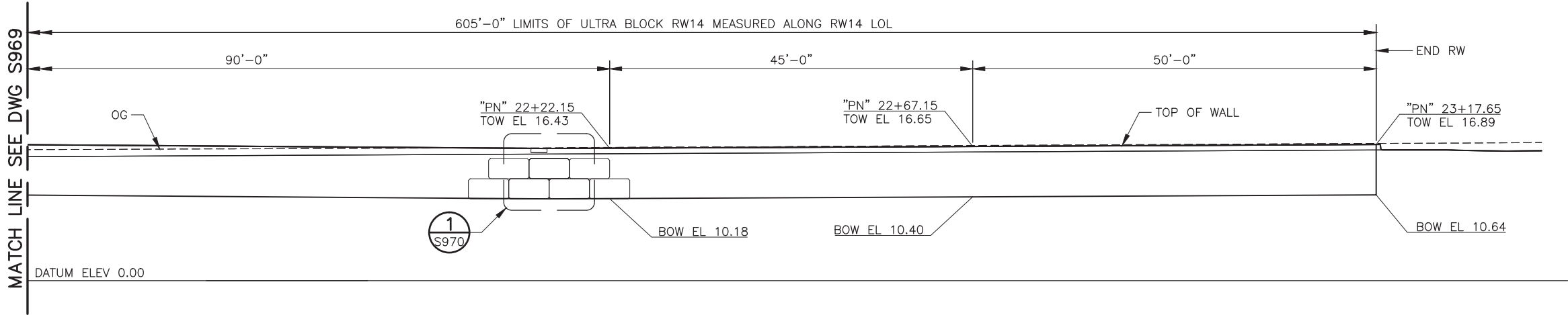
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CONTROL POINT:

CITY:

COUNTY:



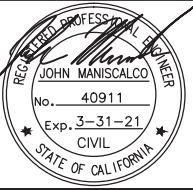
NOTE:
SEE CIVIL PLANS FOR GRADING.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS
BEFORE PERFORMING ANY WORK OR ORDERING OR FABRICATING ANY MATERIALS.

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	090820	JG	JC	JM	ISSUED PER CHANGE NOTICE 059 Rev 1						

DESIGNED
J. CHEN
DRAWN
J. GREEN
CHECKED
J. MANISCALCO
IN CHARGE
L. RIMBACH
DATE
09112019



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

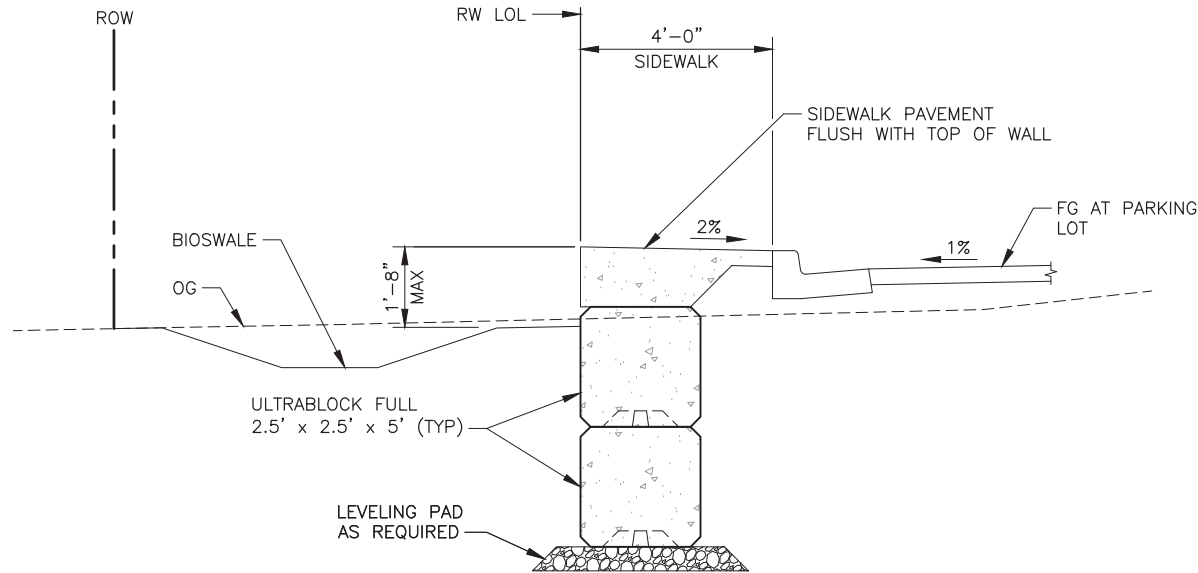
PENINSULA CORRIDOR JOINT POWERS BOARD
SAN MATEO 25TH AVENUE
GRADE SEPARATION
RETAINING WALL RW14 LAYOUT
SHEET 3 OF 3

CADD FILE NAME tfaS965-0	CADD DATE 09072020
SCALE 1/8"=1'-0"	
CONTRACT NO 17-J-C-048	MILEPOST 19.0-20.3
DWG NO S969	REV 0
	PAGE NO

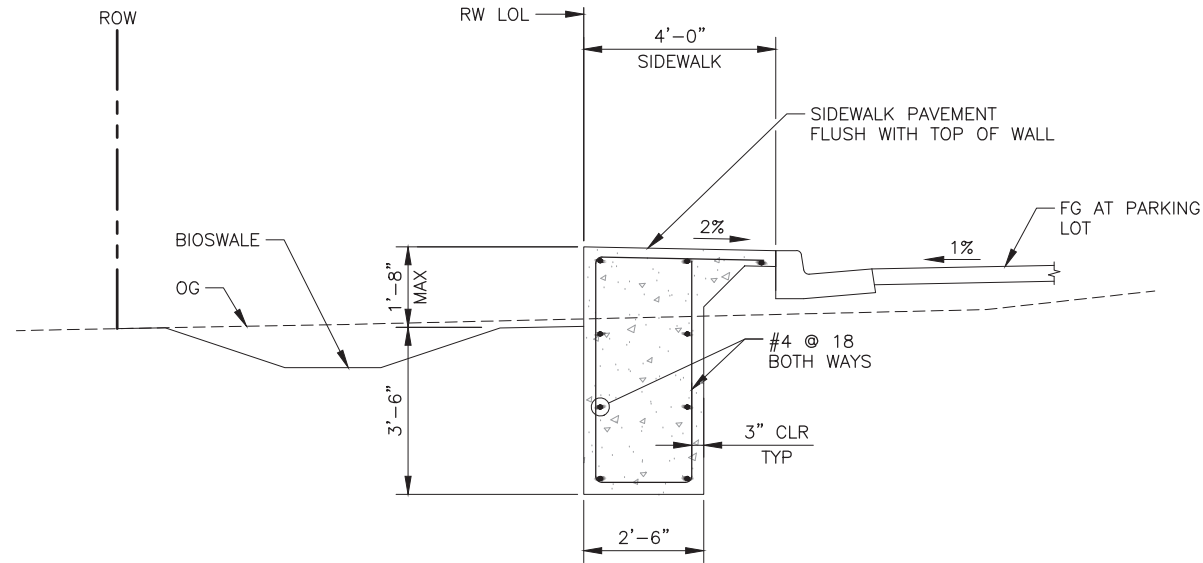
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CONTROL POINT:

CITY:



ULTRA BLOCK

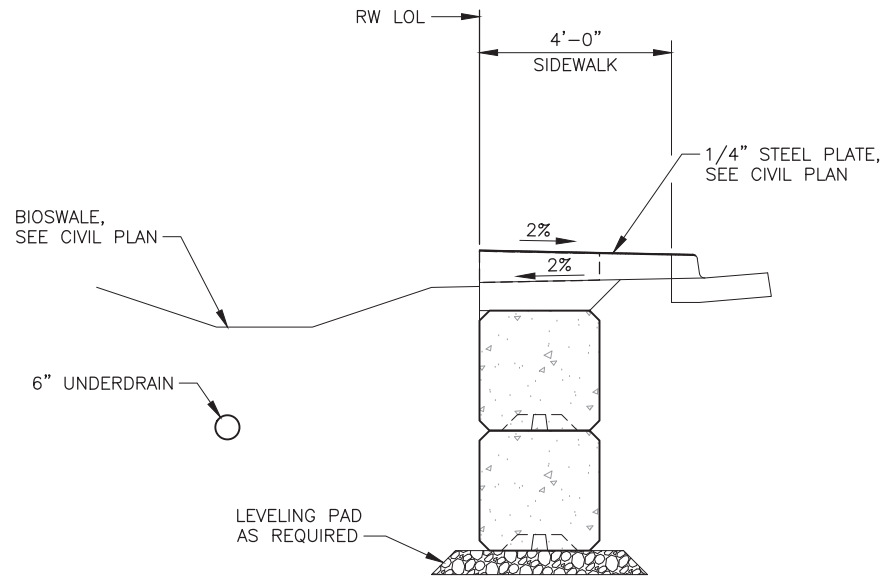


CAST-IN-PLACE CONCRETE ALTERNATIVE

A TYPICAL SECTION AT SIDEWALK

S967
S968
S969

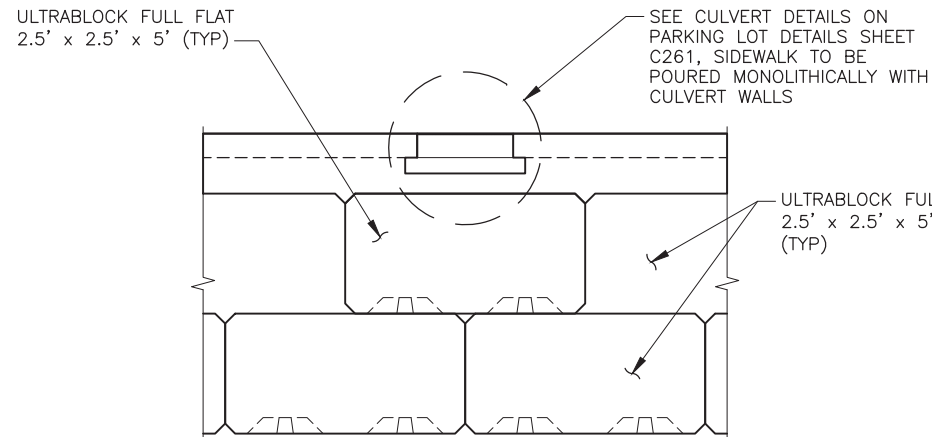
SCALE: 1/2"=1'-0"



B TYPICAL AT SIDEWALK CULVERT SECTION

S967
S968
S969

SCALE: 1/2"=1'-0"



1 TYPICAL AT SIDEWALK CULVERT PARTIAL ELEVATION

S967
S968
S969

SCALE: 1/2"=1'-0"

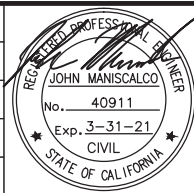
NOTES:

1. THE ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,000 PSI AT 28 DAYS.
2. USE CALTRAIN STANDARD SPECIFICATION SECTION 03400, PRECAST CONCRETE STRUCTURES FOR THIS WORK.
3. CONTRACTOR SHALL FOLLOW ULTRABLOCK FIELD CONSTRUCTION MANUAL AND SPECIFICATION TO INSTALL THE BLOCKS.
4. CONTRACTOR SHALL FILL THE BLOCK LIFTING POCKET WITH GROUT TO ENSURE A FLUSH FINISH.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND BACKFILL MEANS AND METHODS.
6. PROVIDE MINIMUM 6" THICK LEVELING PAD AT BASE OF ALL WALLS.
7. SEE CIVIL PLANS FOR BIO SWALE, DRAINAGE, AND PAVING LAYOUT AND DETAILS.



REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	090820	JG	JC	JM	ISSUED PER CHANGE NOTICE 059 Rev 1						

DESIGNED	J. CHEN
DRAWN	J. GREEN
CHECKED	J. MANISCALCO
IN CHARGE	L. RIMBACH
DATE	09112019



DEPUTY DIRECTOR	S. CHAO
PROJECT MANAGEMENT	R. BOLON
STRUCTURES	C. CHEN
TRACK/CIVIL	S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD		CADD FILE NAME	tfaS965-0	CADD DATE	09072020
SAN MATEO 25TH AVENUE GRADE SEPARATION		SCALE	1/4"=1'-0"		
RETAINING WALL RW14 DETAILS		CONTRACT NO	17-J-C-048	MILEPOST	19.0-20.3
		DWG NO	S970	REV	0

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JOHNGREEN Sep 07, 2020 -- 8:52 AM

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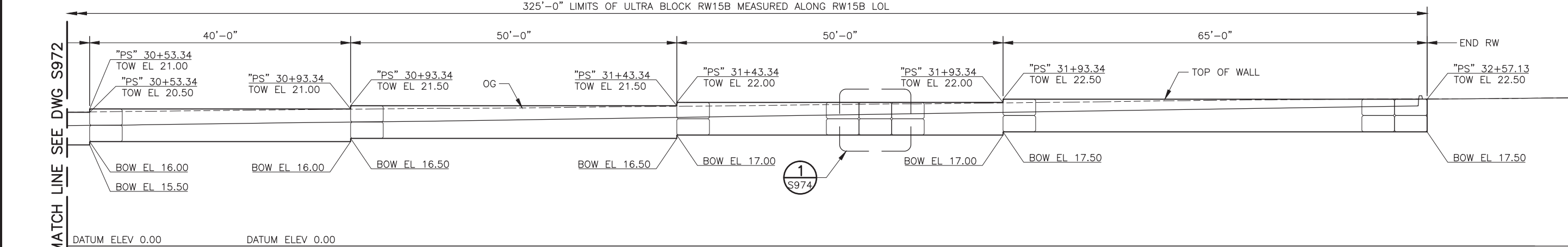
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CITY:

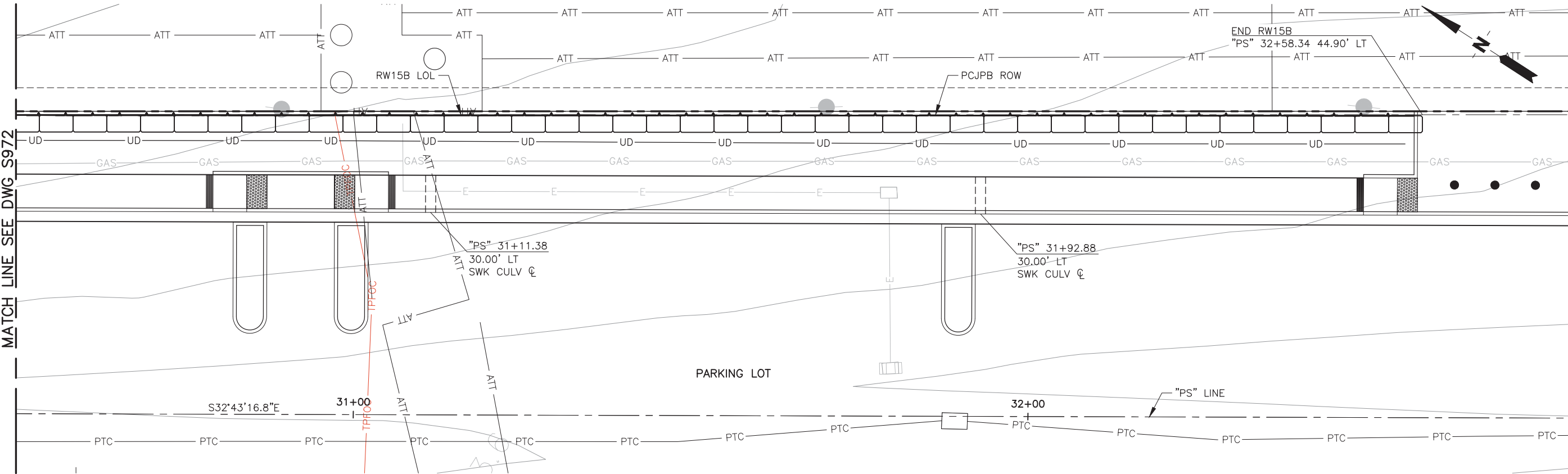
CITY:

MATCH LINE SEE DWG S972

MATCH LINE SEE DWG S972



ELEVATION
SCALE: 1/8" = 1'-0"



PLAN
SCALE: 1/8" = 1'-0"

NOTE:
SEE CIVIL PLANS FOR GRADING.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS
BEFORE PERFORMING ANY WORK OR ORDERING OR FABRICATING ANY MATERIALS.

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	090820	JG	JC	JM	ISSUED PER CHANGE NOTICE 059 Rev 1						

DESIGNED
J. CHEN
DRAWN
J. GREEN
CHECKED
J. MANISCALCO
IN CHARGE
L. RIMBACH
DATE
09112019



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

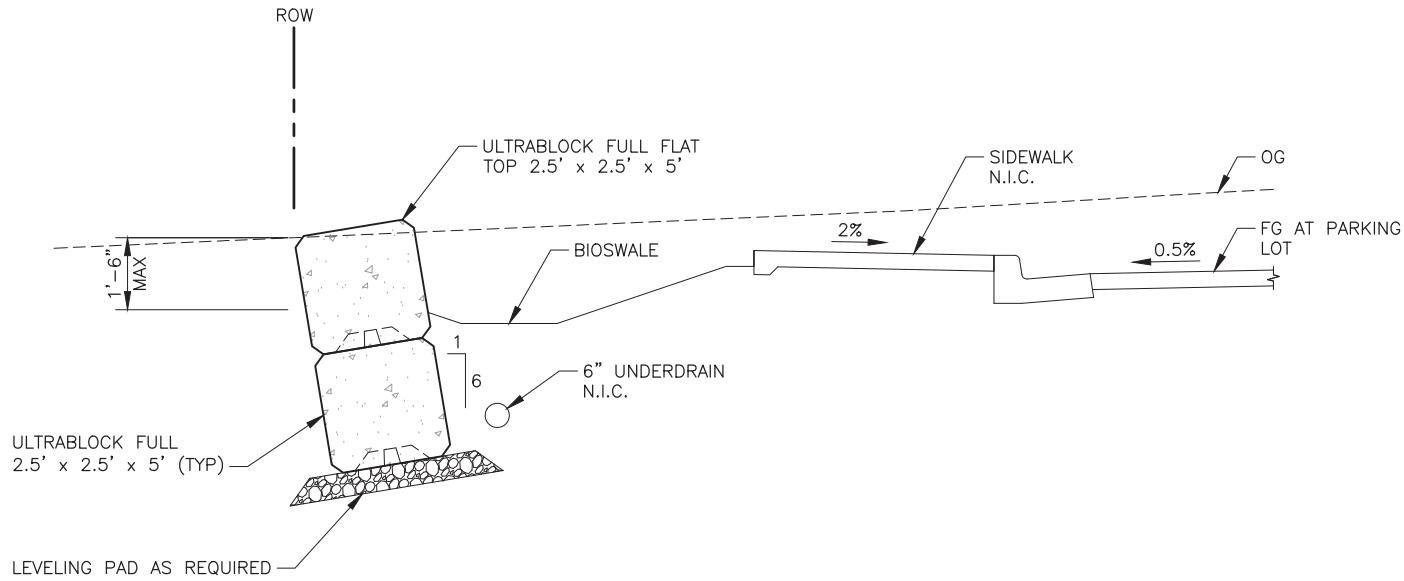
PENINSULA CORRIDOR JOINT POWERS BOARD
**SAN MATEO 25TH AVENUE
GRADE SEPARATION**
RETAINING WALL RW15B LAYOUT
SHEET 3 OF 3

CADD FILE NAME tfaS965-0	CADD DATE 09072020
SCALE 1/8"=1'-0"	MILEPOST 19.0-20.3
CONTRACT NO 17-J-C-048	REV 0
DWG NO S973	PAGE NO

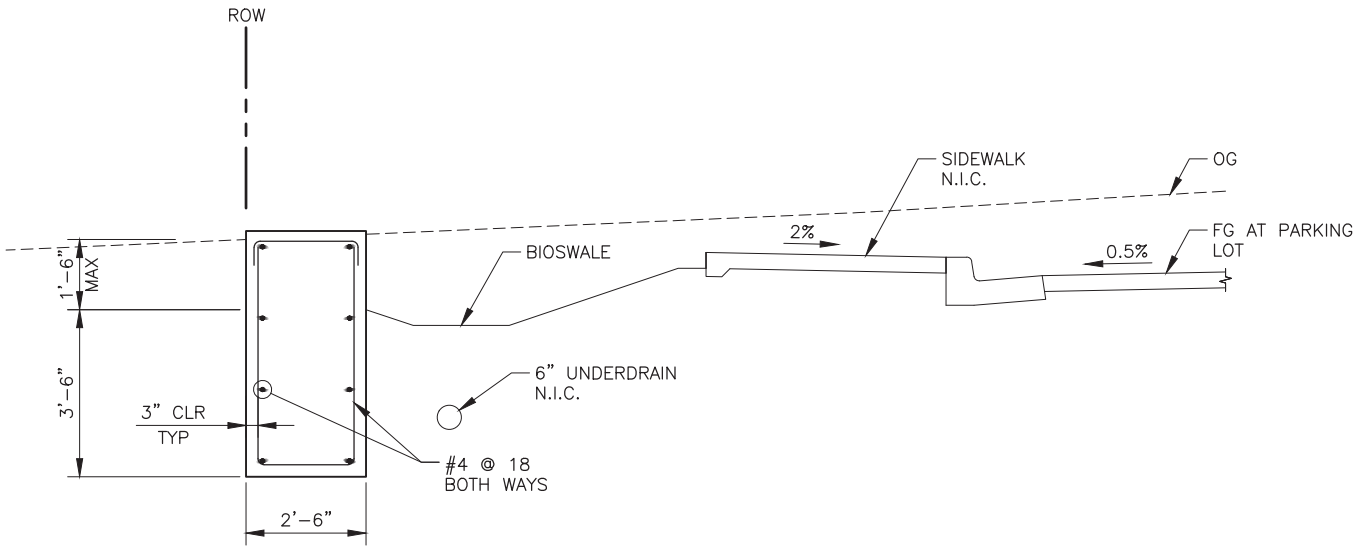
C:\pwworking\sec\dc685660\16S965_thru_S975.dwg
JOHNGREEN Sep 07, 2020 - 8:52 AM

CONTROL POINT:

CITY:



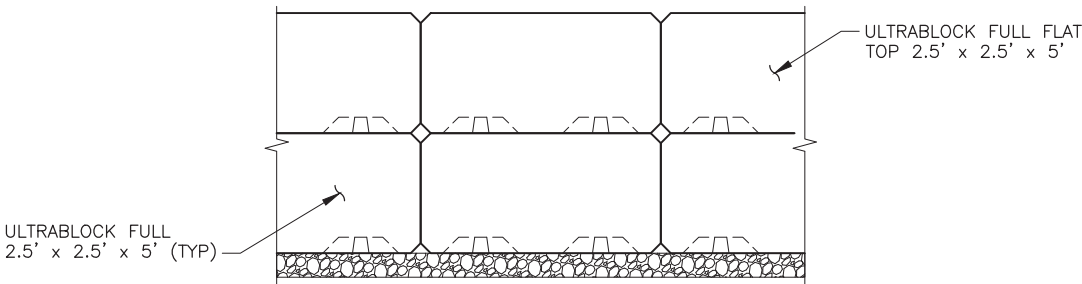
ULTRA BLOCK



CAST-IN-PLACE CONCRETE ALTERNATIVE

NOTE:
SEE CIVIL PLANS FOR GRADING.

A TYPICAL SECTION AT SIDEWALK
S971 S974 S972 S973
SCALE: 1/2"=1'-0"



1 PARTIAL ELEVATION
S971 S974 S972 S973
SCALE: 1/2"=1'-0"

- NOTES:
1. THE ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,000 PSI AT 28 DAYS.
 2. USE CALTRAIN STANDARD SPECIFICATION SECTION 03400, PRECAST CONCRETE STRUCTURES FOR THIS WORK.
 3. CONTRACTOR SHALL FOLLOW ULTRABLOCK FIELD CONSTRUCTION MANUAL AND SPECIFICATION TO INSTALL THE BLOCKS.
 4. CONTRACTOR SHALL FILL THE BLOCK LIFTING POCKET WITH GROUT TO ENSURE A FLUSH FINISH.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND BACKFILL MEANS AND METHODS.
 6. PROVIDE MINIMUM 6" THICK LEVELING PAD AT BASE OF ALL WALLS.
 7. SEE CIVIL PLANS FOR BIO SWALE, DRAINAGE, AND PAVING LAYOUT AND DETAILS.



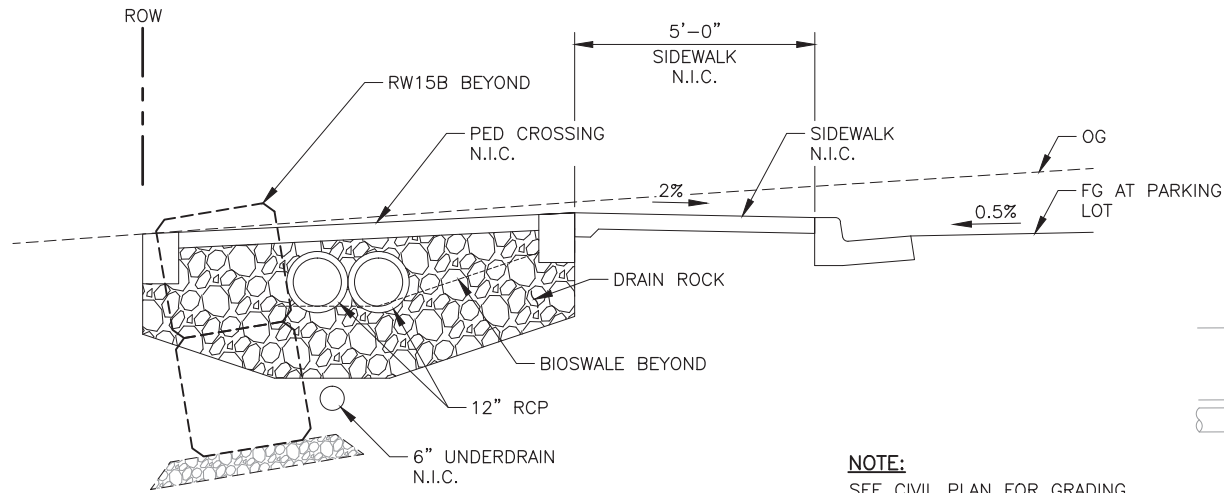
REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	090820	JG	JC	JM	ISSUED PER CHANGE NOTICE 059 Rev 1						

DESIGNED
J. CHEN
DRAWN
J. GREEN
CHECKED
J. MANISCALCO
IN CHARGE
L. RIMBACH
DATE
09112019



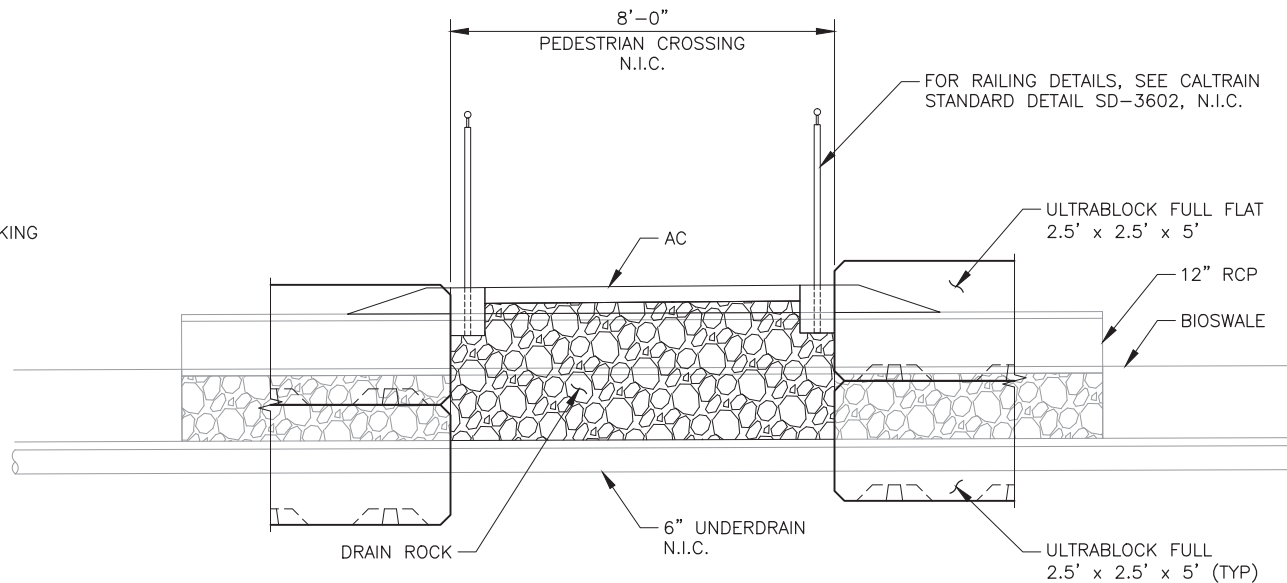
DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD				CADD FILE NAME	CADD DATE
SAN MATEO 25TH AVENUE GRADE SEPARATION RETAINING WALL RW15A AND RW15B DETAILS				tfaS965-0	09072020
				SCALE 1/8"=1'-0"	
				CONTRACT NO 17-J-C-048	MILEPOST 19.0-20.3
				DWG NO S974	REV 0

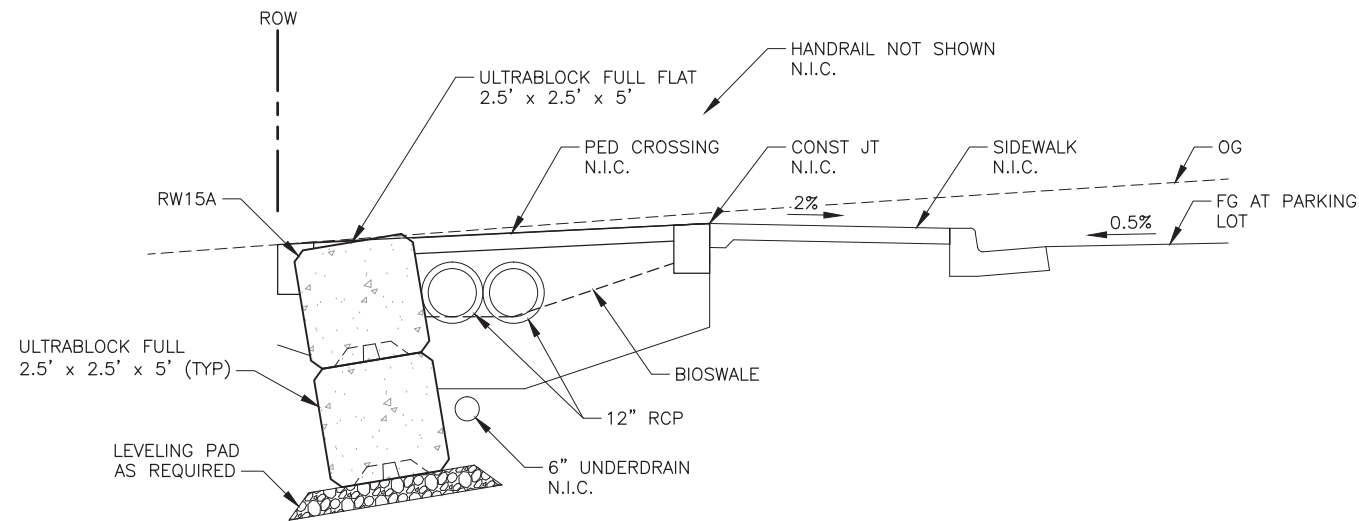


NOTE:
SEE CIVIL PLAN FOR GRADING.

AT PED CROSSING
B TYPICAL SECTION
S972 S975 SCALE: 1/2"=1'-0"



AT PED CROSSING
2 PARTIAL ELEVATION
S972 S975 SCALE: 1/2"=1'-0"



AT PED CROSSING
C TYPICAL SECTION
S971 S972 S973 SCALE: 1/2"=1'-0"

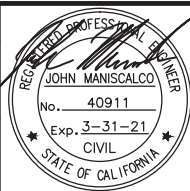
- NOTES:
1. THE ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 5,000 PSI AT 28 DAYS.
 2. USE CALTRAIN STANDARD SPECIFICATION SECTION 03400, PRECAST CONCRETE STRUCTURES FOR THIS WORK.
 3. CONTRACTOR SHALL FOLLOW ULTRABLOCK FIELD CONSTRUCTION MANUAL AND SPECIFICATION TO INSTALL THE BLOCKS.
 4. CONTRACTOR SHALL FILL THE BLOCK LIFTING POCKET WITH GROUT TO ENSURE A FLUSH FINISH.
 5. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND BACKFILL MEANS AND METHODS.
 6. PROVIDE MINIMUM 6" THICK LEVELING PAD AT BASE OF ALL WALLS.
 7. SEE CIVIL PLANS FOR BIO SWALE, DRAINAGE, AND PAVING LAYOUT AND DETAILS.



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JOHNGREEN Sep 07, 2020 - 8:52 AM
COUNTY: CITY:

REV	DATE	BY	SUB	APP	DESCRIPTION	REV	DATE	BY	SUB	APP	DESCRIPTION
0	090820	JG	JC	JM	ISSUED PER CHANGE NOTICE 059 Rev 1						

DESIGNED
J. CHEN
DRAWN
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DATE
09112019



DEPUTY DIRECTOR
S. CHAO
PROJECT MANAGEMENT
R. BOLON
STRUCTURES
C. CHEN
TRACK/CIVIL
S. CHAO

PENINSULA CORRIDOR JOINT POWERS BOARD				CADD FILE NAME	CADD DATE
SAN MATEO 25TH AVENUE GRADE SEPARATION				tfaS965-0	09072020
PEDESTRIAN CROSSING DETAILS				SCALE 1/8"=1'-0"	
				CONTRACT NO 17-J-C-048	MILEPOST 19.0-20.3
				DWG NO S975	REV 0