



CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

MEMORANDUM

January 14, 2021

To: J. Logan, General Manager (Los Altos Hills County Fire District)

From: Jason Feudale (Freyer & Laureta, Inc.)
Kimberly Yau (Freyer & Laureta, Inc.)

Reviewed: Jeffrey J. Tarantino, P.E. (Freyer & Laureta, Inc.)

RE: **Concepcion – Fremont Water Main Replacement Project Review**
Purissima Hills Water District, Los Altos Hills, California

INTRODUCTION AND BACKGROUND

Freyer & Laureta, Inc. (F&L) provides on-call engineering services for the Los Altos Hills County Fire District (District). When Purissima Hills Water District (PHWD) notifies the District of a planned capital improvement project to replace PHWD existing infrastructure, the District reviews the proposed improvement scope to evaluate reuse of existing fire hydrants, replacement of existing fire hydrants, and potential additional fire hydrants to improve fire protection.

PHWD has notified the District that Pakpour Consulting Group (PCG) is preparing the design of the Concepcion Road – Fremont Road Improvements Project (Project) to replace the existing water transmission main. The proposed project limits are shown on the draft 90% design submittal provided by PHWD and included as Exhibit 1 to this memorandum¹. PHWD proposes to reuse the existing fire hydrants affected by the proposed Project and requested that the District participate in a field walk to review the Project limits to determine if any additional fire hydrants would be required to be installed as part of the proposed Project.

PROJECT REVIEW SITE VISIT

On November 18, 2020, a site visit was held to review the proposed Project including evaluating the existing District-owned fire hydrants and current fire hydrant layout to

¹ Exhibit 1 includes select sheets from the 90% Design submittal provided by PHWD to focus on the project limits and the portions of the Project limits that included District-owned fire hydrants and District proposed fire hydrants.

identify potential risk for fire suppression. The meeting attendees including title and organization the individual represented is provided in Table 1.

Table 1 – Meeting Attendee List

Name	Organization	Title
Anthony Stoloski	Purissima Hills Water District	Operations Manager
William Lai	Pakpour Consulting Group	Project Engineer
Denise Gluhan	Los Altos Hills County Fire District	Emergency Services Manager
Kathy Baker	Santa Clara County Fire Department	Deputy Fire Marshal
Rob Cambell	Santa Clara County Fire Department	Deputy Fire Marshal
Kenny Ip	Santa Clara County Fire Department	Deputy Fire Marshal
Jeff Tarantino, P.E.	Freyer & Laureta, Inc.	Vice President
Jason Feudale	Freyer & Laureta, Inc.	Associate Engineer

The meeting attendees walked the Project limits shown in Exhibit 1 to observe the location of the existing fire hydrant locations as well as the condition of the existing fire hydrant. The District's Emergency Services Manager and the Santa Clara County Fire Department (SCCFD) Deputy Fire Marshals evaluated the spacing of the existing fire hydrants and field conditions to determine whether additional fire hydrants would be recommended to improve fire suppression coverage.

Exhibit 1 includes markups of the PHWD Project 90% design submittal that indicates:

- 1) A total of five existing fire hydrant locations to be relocated to proposed adjusted location (within 5') required for constructability including confirming the existing fire hydrant and check valve can be reused including the following:
 - a) Concepcion Road at Station (Sta) 10+53 (see Sheet C3.1)
 - b) Concepcion Road at Sta 16+41 (see Sheet C3.2)
 - c) Fremont Road at Sta 12+17 (see Sheet C4.1)
 - d) Fremont Road at Sta 15+74 (see Sheet C4.2)
 - e) Fremont Road at La Paloma Road (see Sheet C4.3)
- 2) One Existing fire hydrant to be relocated to proposed adjusted location (relocated 50') required for constructability including confirming the existing fire hydrant and check valve can be reused including the following:
 - a) Concepcion Road at Sta 49+88 (see Sheet C3.11)
- 3) Three new fire hydrant to limit maximum spacing between fire hydrants to no more than 500 feet including the following:
 - a) Concepcion Road at approximate Sta 25+60 (see Sheet C3.5)
 - b) Concepcion Road at approximate Sta 32+90 (see Sheet C3.6)
 - c) Concepcion Road at approximate Sta 45+00 (see Sheet C3.9)

ANTICIPATED IMPROVEMENTS

Based on the site visit and potential improvements identified by the Project team, the following work for District-owned infrastructure is anticipated:

- For the five hydrant locations in Item 1 and single hydrant location in Item 2 from the section above, where the existing hydrant and check valve will be salvaged and reused, the work will include:
 - Install new gate valve at the PHWD main;
 - Install new lateral ductile iron pipe of varying length depending on location;
 - Install new hydrant bury;
 - Install salvaged check valve, and;
 - Install salvaged hydrant
- For the three new hydrant locations in Item 3, the work will include:
 - Install new gate valve at the PHWD main;
 - Install new lateral ductile iron pipe of varying length depending on location;
 - Install new hydrant bury;
 - Install new check valve, and;
 - Install new hydrant

All work summarized above will be completed in accordance with PHWD Standard Drawing PH-08 Fire Hydrant Assembly.

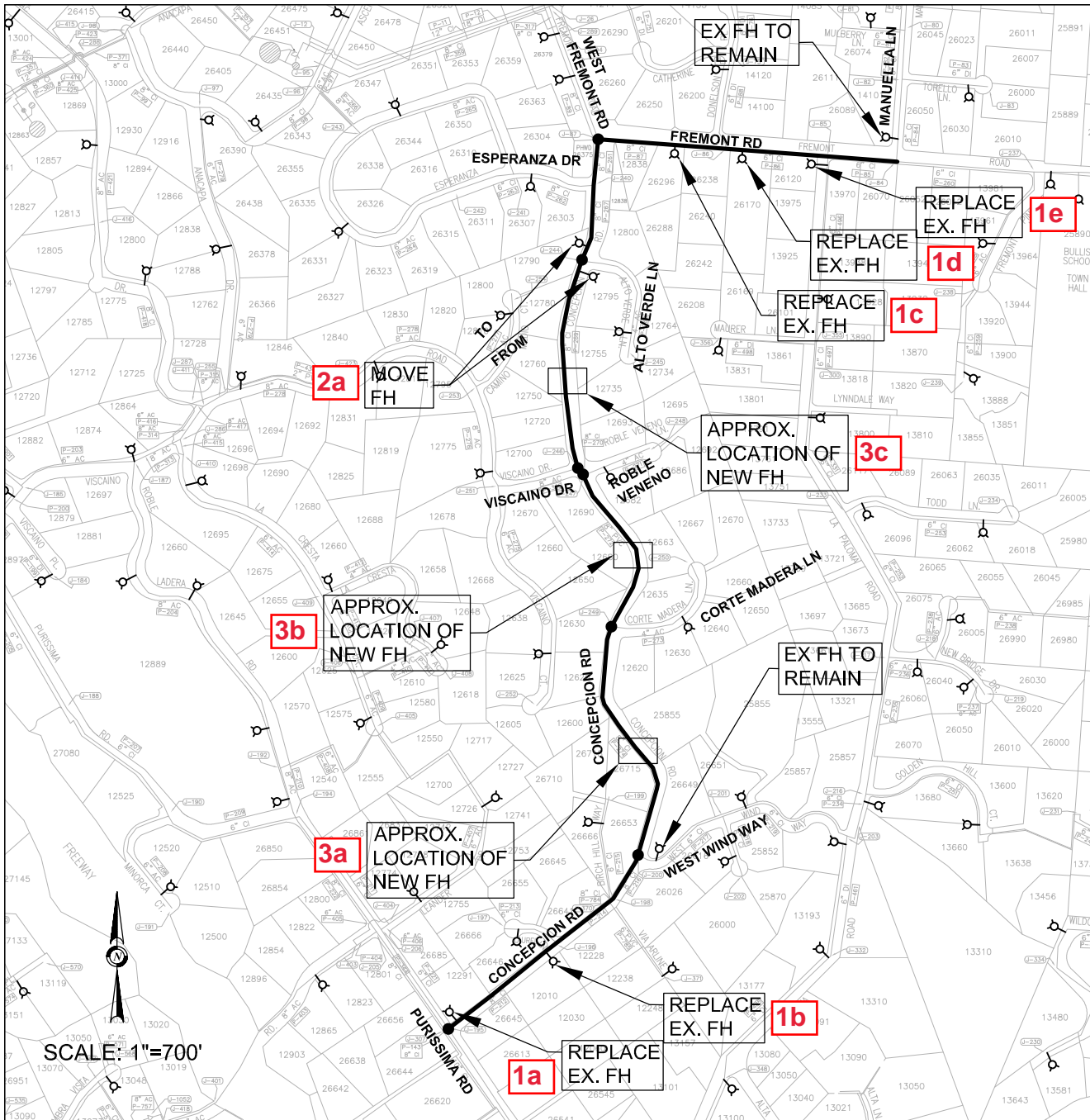
RECOMMENDATION

F&L recommends that the District coordinate with PHWD to incorporate the anticipated improvements described above including the installation of three new hydrants into the PHWD Project. The proposed improvements maximizes reuse of existing District materials and improves the level of fire protection by reducing the maximum spacing of fire hydrants within the project limits.

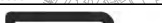
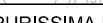
Please contact Jeff Tarantino at tarantino@freyerlaureta.com or (650) 619-3226 with any questions or comments.

EXHIBIT 1

PROPOSED FIRE HYDRANT IMPROVEMENTS



CONCEPCION ROAD-FREMONT ROAD IMPROVEMENTS



 <div>Pakpour Consulting Group 5776 Stoneridge Mall Rd, Ste 320 Pleasanton, CA 94588 P: 925.224.7717 F: 925.224.7726 www.pcgengr.com</div>	JOB No.	10002.04	 <div>PURISSIMA HILLS WATER DISTRICT SANTA CLARA COUNTY, CALIFORNIA 26375 FREMONT ROAD LOS ALTOS HILLS, CA 94022-0264</div>	<div>CONCEPCION ROAD-FREMONT ROAD IMPROVEMENTS</div> <div>CAPITAL PROJECT SUMMARY - 2019 UPDATE</div>		
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	SCALE	AS NOTED				
	DRAWN BY	BL				
	CKD	JP				

DRAWING NAME: J:\CADD\10002.04\FH\PH FH IMP.dwg
 PLOT DATE: 01-13-21 PLOTTED BY: wai

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:

<u>SHEET NO.</u>	<u>PLAN NO.</u>	<u>TITLE</u>
1	G1.1	TITLE SHEET, SURVEY NOTES, VICINITY AND LOCATION MAPS
2	G1.2	SHEET INDEX MAP
3	C1.1	NOTES, ABBREVIATIONS, LEGEND
CONSTRUCTION DETAILS		
4	C2.1	CONSTRUCTION DETAILS 1
5	C2.2	CONSTRUCTION DETAILS 2
6	C2.3	CONSTRUCTION DETAILS 3
7	C2.4	CONSTRUCTION DETAILS 4
CONCEPCION RD		
8	C3.1	CONCEPCION RD – PLAN AND PROFILE – STA 10+00 TO STA 14+00
9	C3.2	CONCEPCION RD – PLAN AND PROFILE – STA 14+00 TO STA 18+00
10	C3.3	CONCEPCION RD – PLAN AND PROFILE – STA 18+00 TO STA 21+00
11	C3.4	CONCEPCION RD – PLAN AND PROFILE – STA 21+00 TO STA 25+00
12	C3.5	CONCEPCION RD – PLAN AND PROFILE – STA 25+00 TO STA 29+00
13	C3.6	CONCEPCION RD – PLAN AND PROFILE – STA 29+00 TO STA 33+00
14	C3.7	CONCEPCION RD – PLAN AND PROFILE – STA 33+00 TO STA 37+50
15	C3.8	CONCEPCION RD – PLAN AND PROFILE – STA 37+50 TO STA 41+50
16	C3.9	CONCEPCION RD – PLAN AND PROFILE – STA 41+50 TO STA 46+00
17	C3.10	CONCEPCION RD – PLAN AND PROFILE – STA 46+00 TO STA 49+50
18	C3.11	CONCEPCION RD – PLAN AND PROFILE – STA 49+50 TO STA 53+00
29	C3.12	CONCEPCION RD – PLAN AND PROFILE – STA 53+00 TO STA 57+19
FREMONT RD		
20	C4.1	FREMONT RD – PLAN AND PROFILE – STA 10+00 TO STA 14+00
21	C4.2	FREMONT RD – PLAN AND PROFILE – STA 14+00 TO STA 17+00
22	C4.3	FREMONT RD – PLAN AND PROFILE – STA 17+00 TO STA 21+00
23	C4.4	FREMONT RD – PLAN AND PROFILE – STA 21+00 TO STA 23+62
TRAFFIC		
XX	T1.1	STRIPING AND SIGNING PLAN (TO BE COMPLETED NEXT SUBMITTAL)

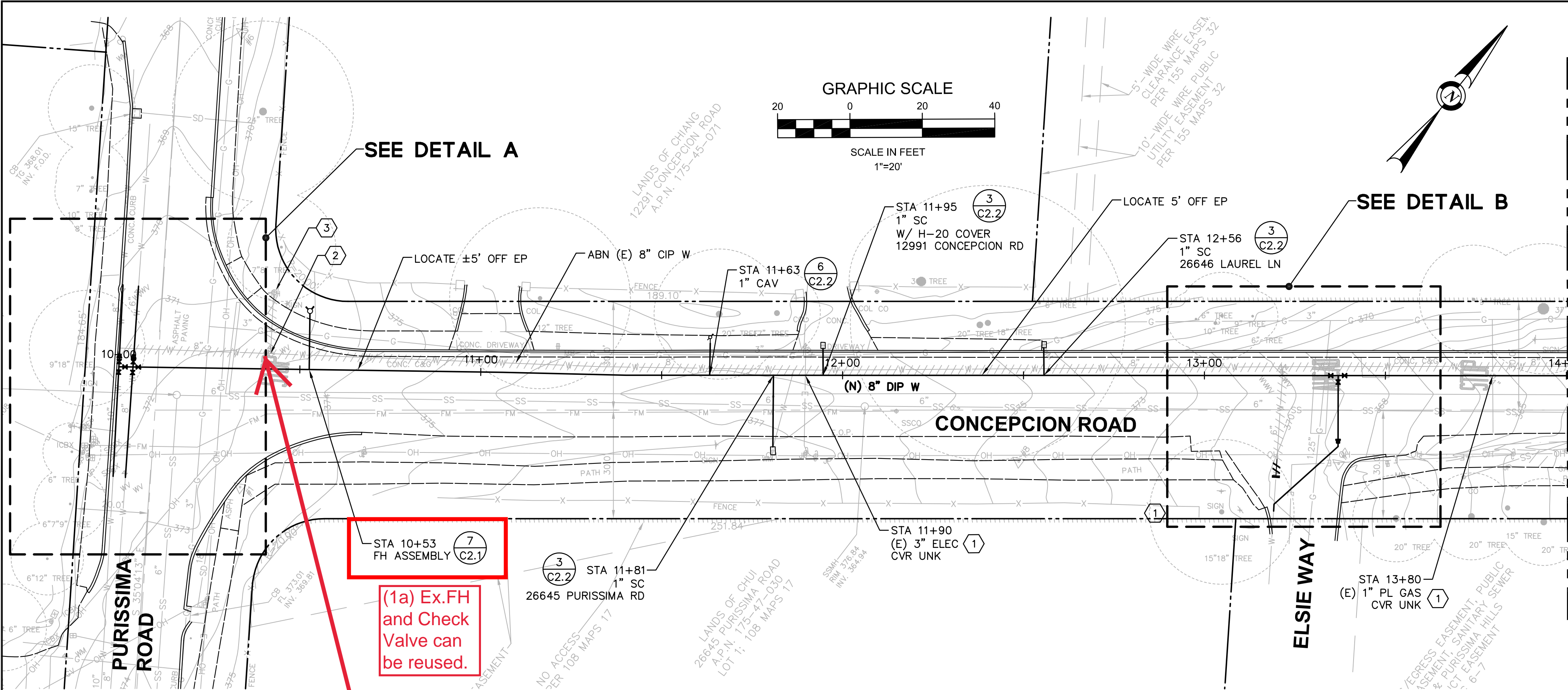


PURUSSIMA HILLS WATER DISTRICT		CONCEPCION ROAD-FREMONT		ROAD IMPROVEMENTS		TITLE SHEET, SURVEY NOTES, VICINITY AND LOCATION MAPS	
DATE 11/6/20		SCALE AS NOTED		PG# JOB NO. 10002.37			
PLAN G1.1		SHEET 1 of 23					
		DRAWN: DAVID LIEBENZ		CHECKED: WILLIAM LAI			
		DESIGNED: DAVID LIEBENZ/WILLIAM LAI		APPROVED: JOUBIN PAKPOUR			
							
				P&G Engineering Group, Inc. 4790 Rockledge Road, Ste 320 Pleasanton, CA 94588 P: 925.224.7717 F: 925.224.7726 www.pgengr.com			
				REVISIONS			

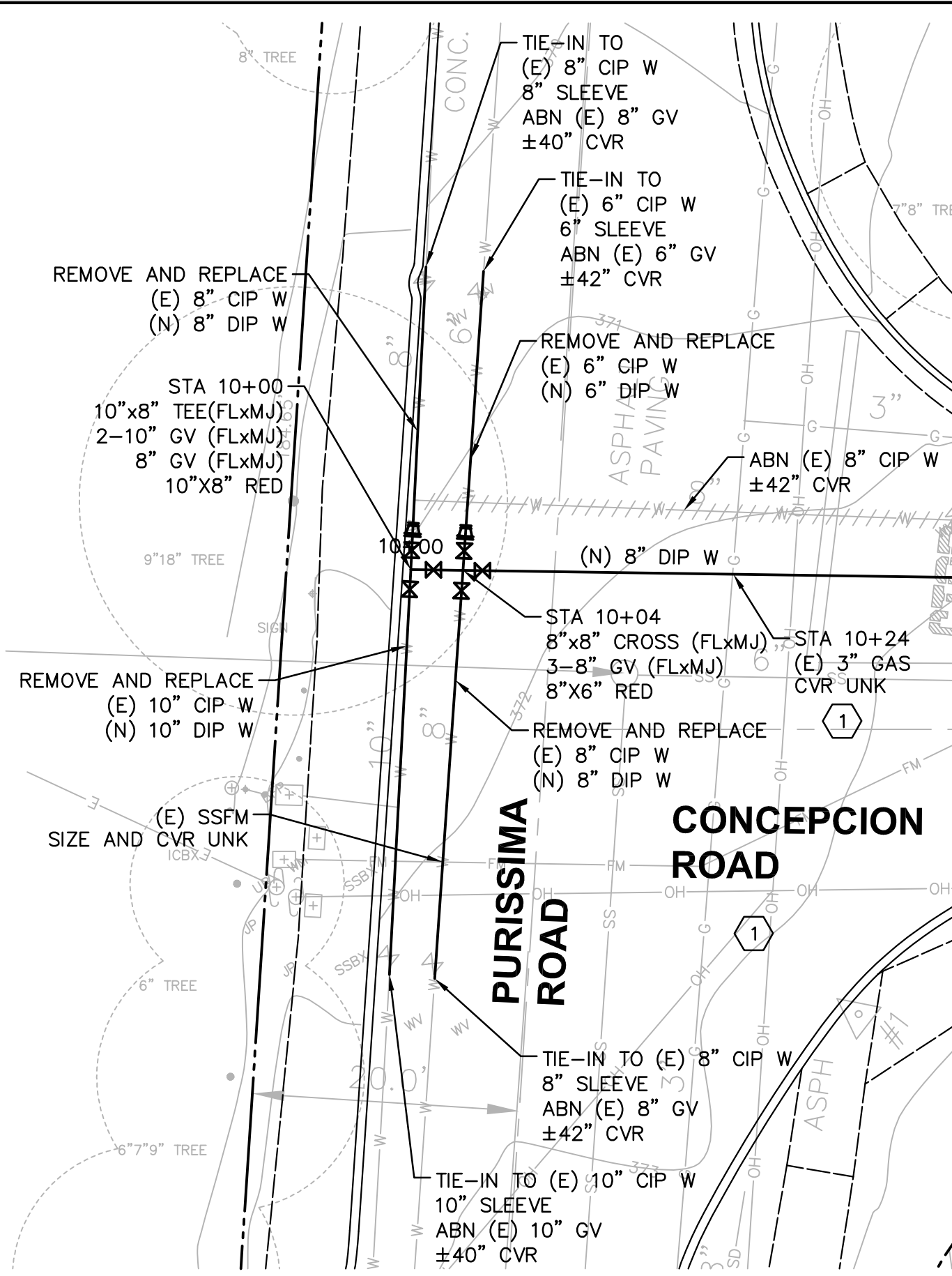
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FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

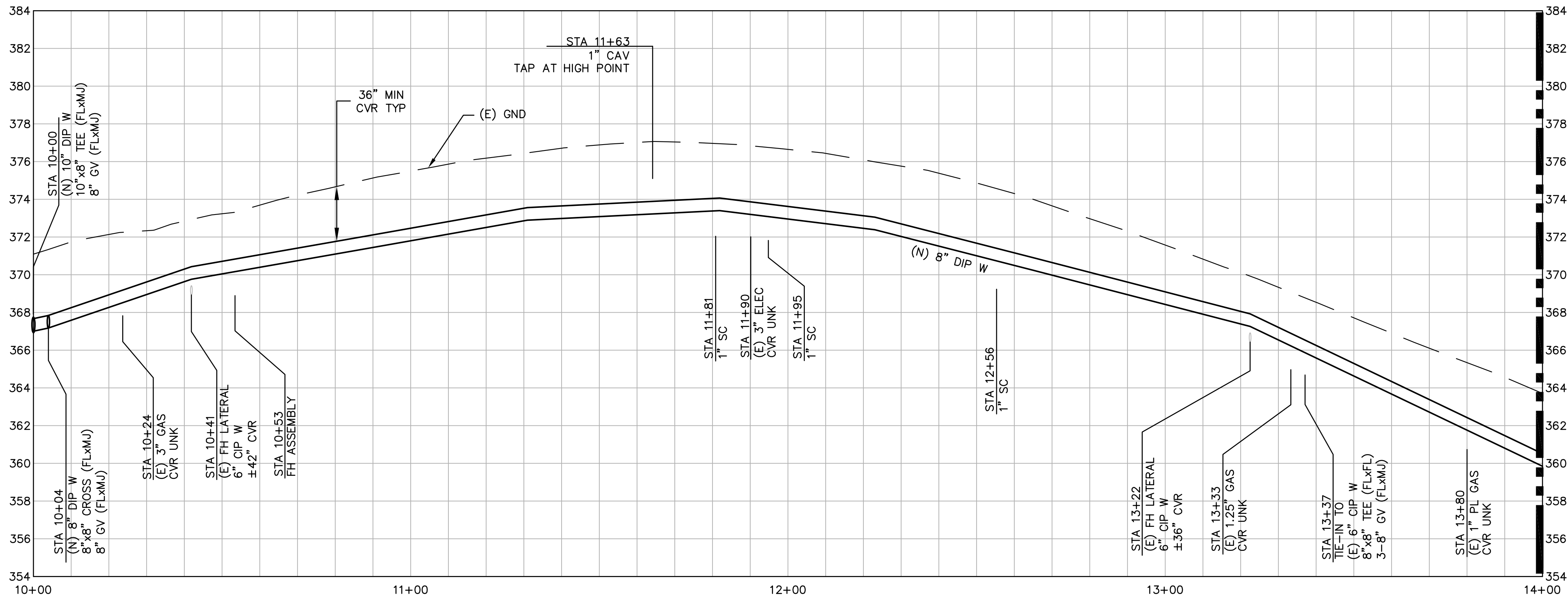
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MATCHLINE: STA 14+00 SEE PLAN C3.2

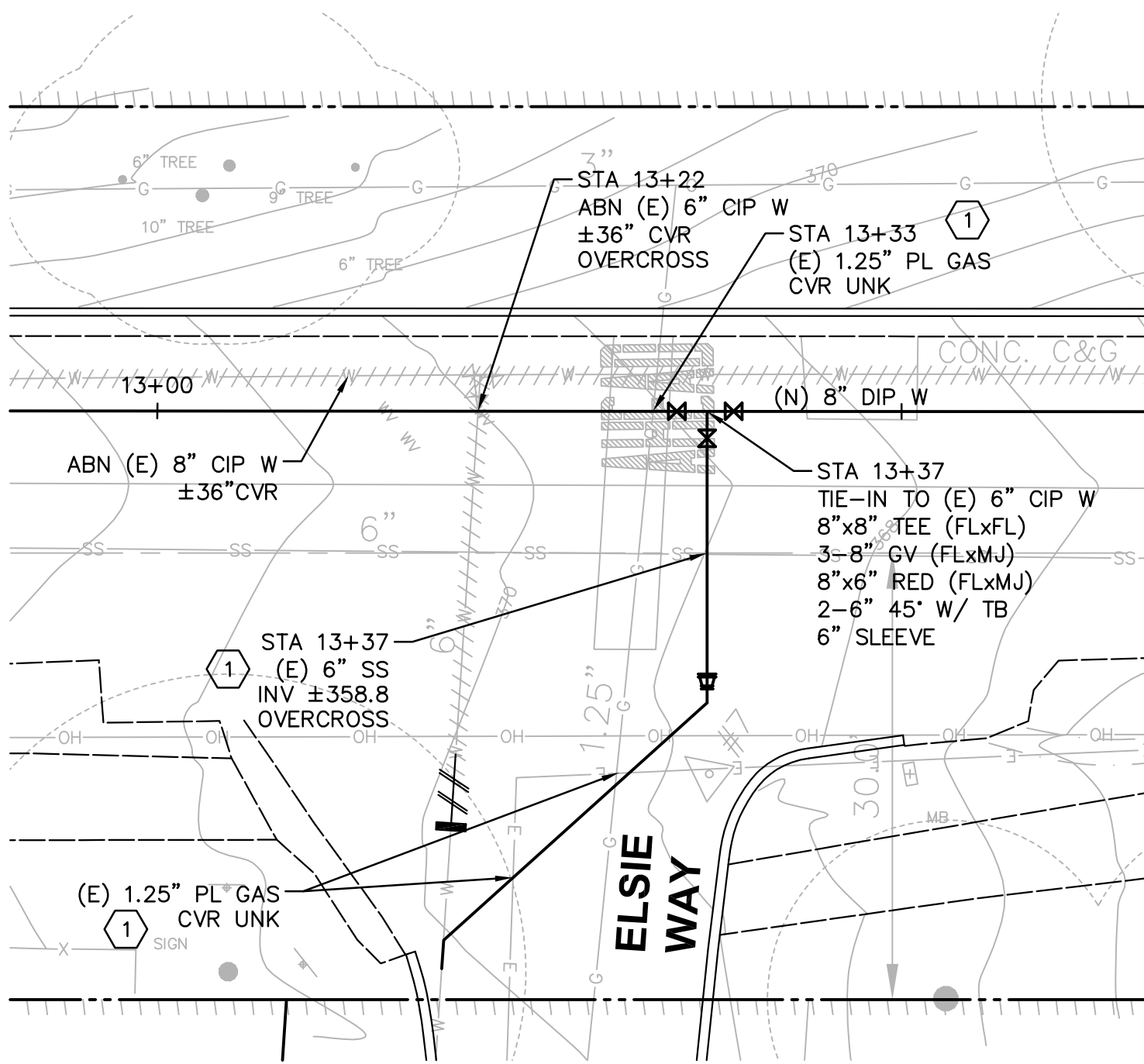


DETAIL A
1"=10' SCALE



PROFILE VIEW
HORZ: 1"=20'
VERT: 1"=4'

MATCHLINE: STA 14+00 SEE PLAN C3.2

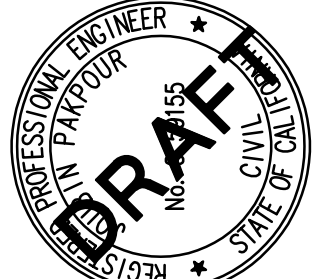


DETAIL B
1"=10' SCALE

90% SUBMITTAL
NOT FOR
CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE	BY	APPRO



Pakpour Consulting Group, Inc.
5776 Stoneridge Mall Road, Ste 320
Pleasanton, CA 94588
P: 925.224.7717 F: 925.224.7736
www.pcgengr.com

CHECKED: WILLIAM LAI
APPROVED: DAVID LIEBENZ
DRAWN: DAVID LIEBENZ
DESIGNED: DAVID LIEBENZ/WILLIAM LAI

PURISSIMA HILLS WATER DISTRICT
CONCEPCION ROAD-FREMONT
ROAD IMPROVEMENTS
CONCEPCION ROAD - PLAN AND PROFILE
STA 10+00 TO STA 14+00

DATE	11/6/20	SCALE	AS NOTED
PCG JOB NO.	10002.37	PLAN	C3.1
SHEET	8	OF	23

Age group	Number of people
0-10	1
11-20	2
21-30	3
31-40	2
41-50	1
51-60	1
61-70	1
71-80	1
81-90	1
91-100	1

FOR REDUCED ENGLISH PLANS
ORIGINAL SCALE IS IN INCHES

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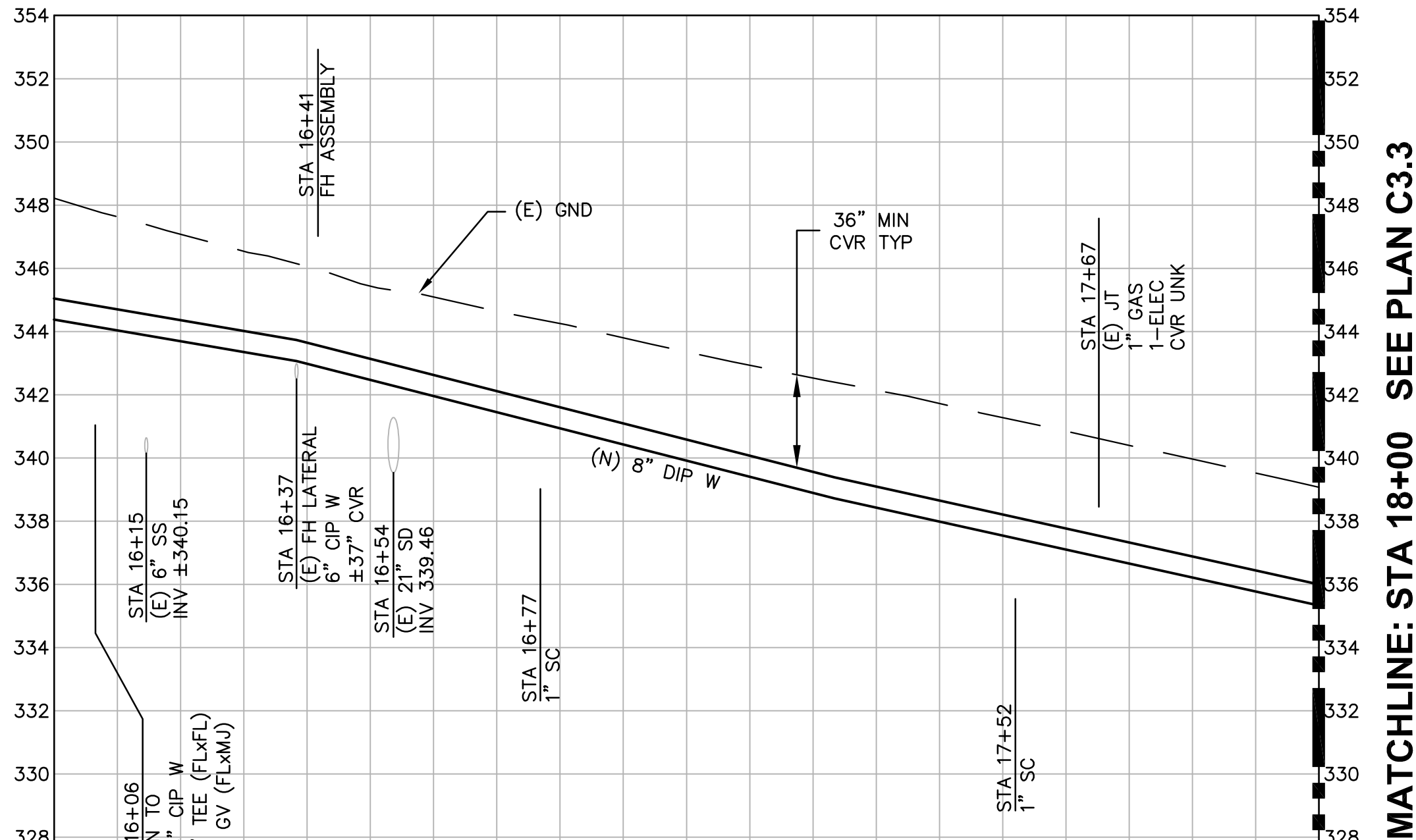


PLAN VIEW



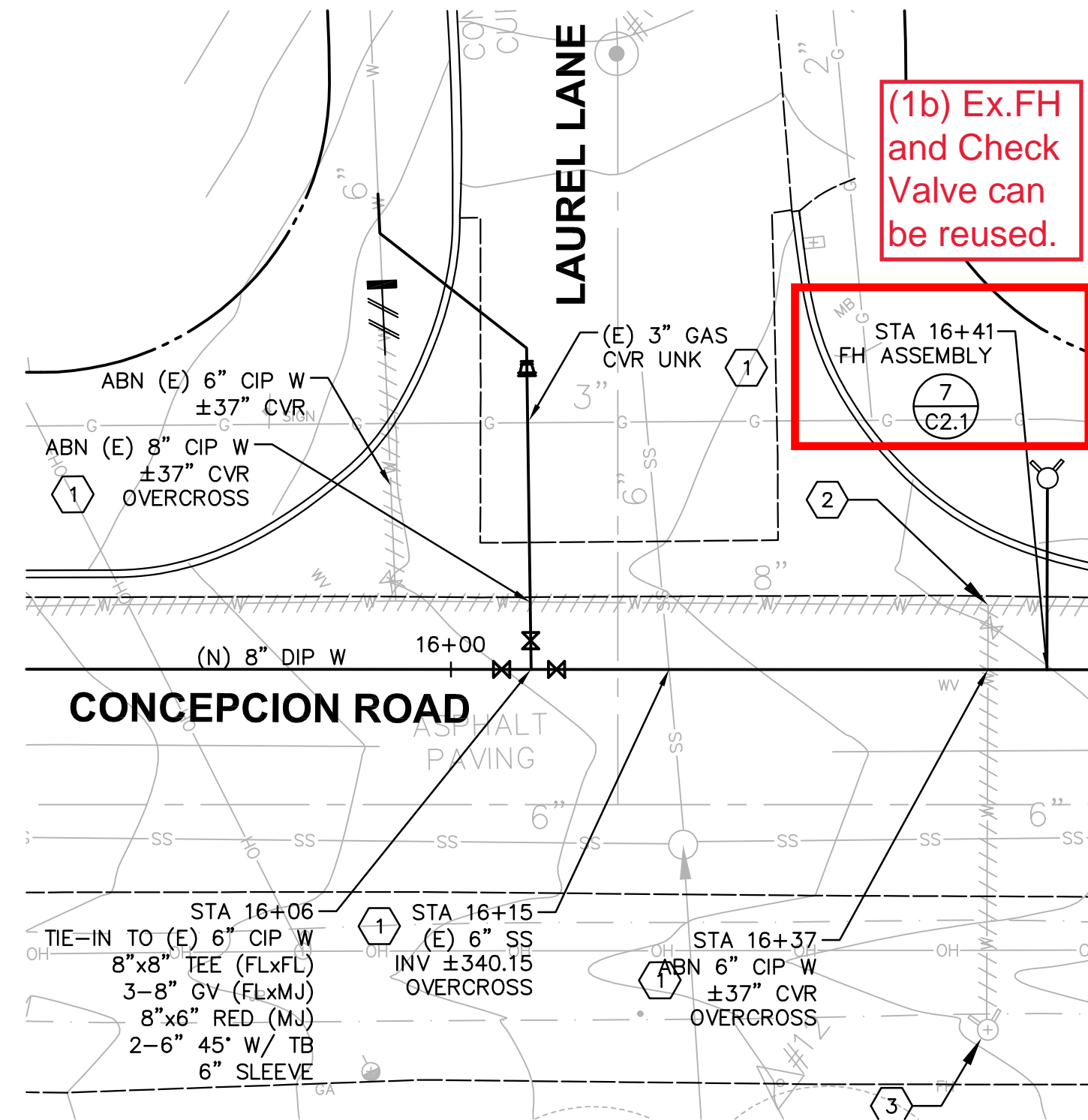
PROFILE VIEW

HORZ: 1"=20'
VERT: 1"=4'





MATCHLINE: STA 18+00 SEE PLAN C3.3

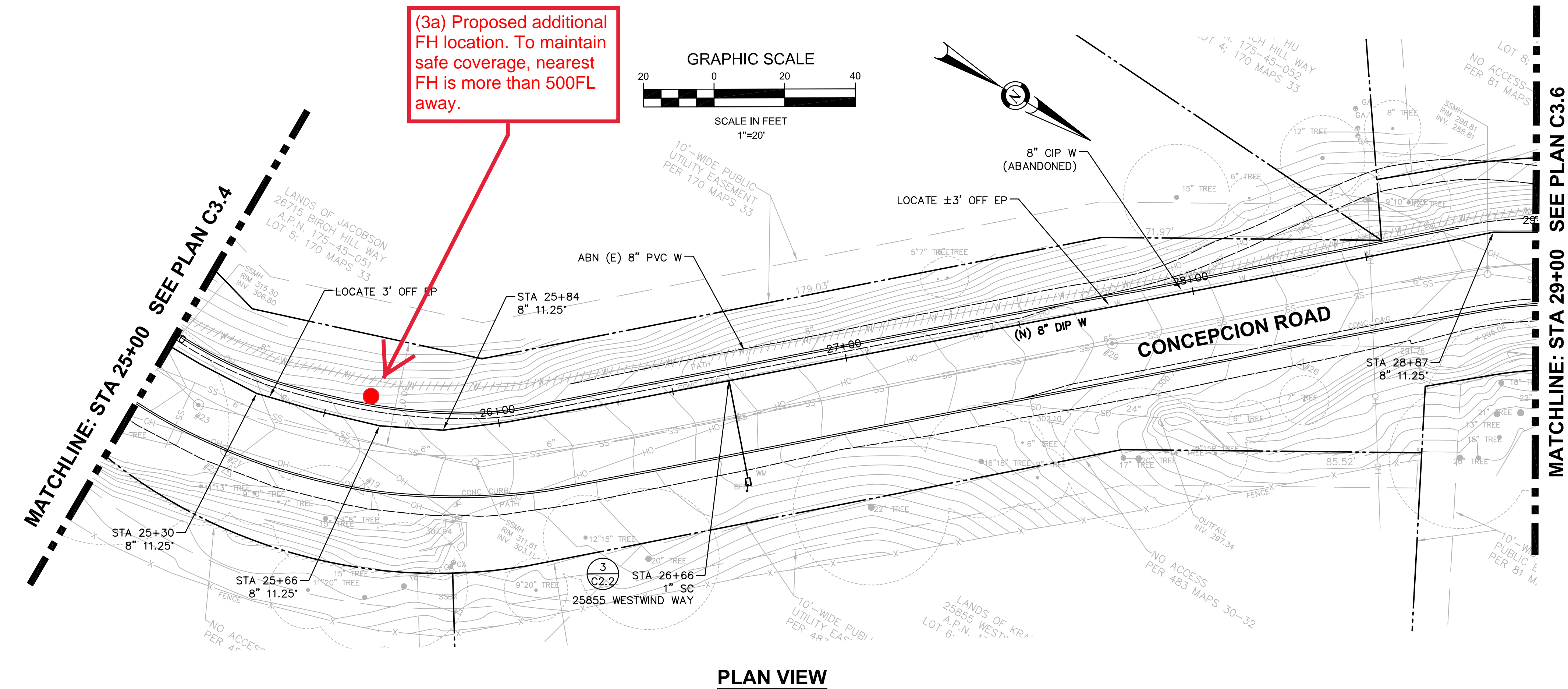
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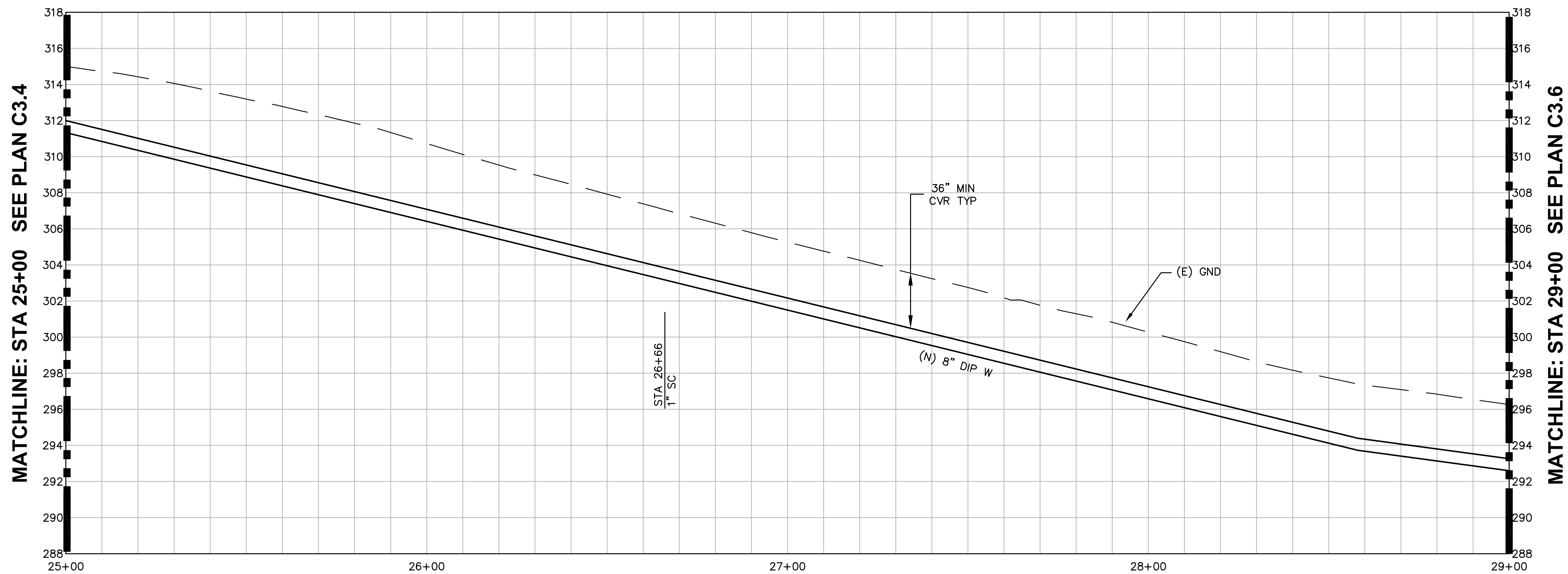
(1b) Ex.FH and Check Valve can be reused.

<div style="text-align: center;"> <h1>PURISSIMA HILLS WATER DISTRICT</h1> <h2>CONCEPCION ROAD-FREMONT ROAD IMPROVEMENTS</h2> <h3>CONCEPCION ROAD – PLAN AND PROFILE STA 14+00 TO STA 18+00</h3> </div>		 <p>PAKPOUR CONSULTING GROUP, INC. 5776 Stoneridges Mall Road, Ste 320 Pleasanton, CA 94588 P: 925.224.7717 F: 925.224.7726 www.pcgengr.com</p>				<h1 style="text-align: center;">REVISIONS</h1>	
DATE	11/6/20	SCALE	AS NOTED	DRAWN:	WILLIAM LAI	CHECKED:	WILLIAM LAI
PCG JOB NO.		10002.37		DESIGNED:	DAVID LIEBENZ/WILLIAM LAI	APPROVED:	JOUBIN PAKPOUR
PLAN		C3.2					
SHEET	9	OF	23				
				NO.	DESCRIPTION	DATE	BY

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:



PLAN VIEW



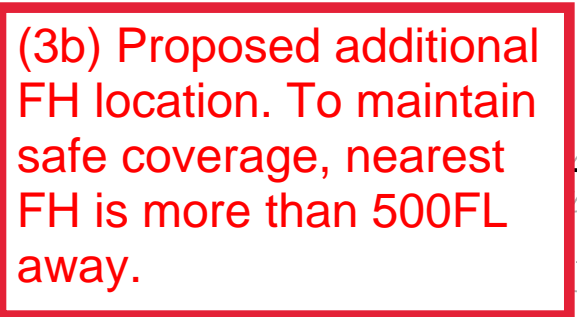
PROFILE VIEW

HORZ: 1"=20'
VERT: 1"=4'



**90% SUBMITTAL
NOT FOR
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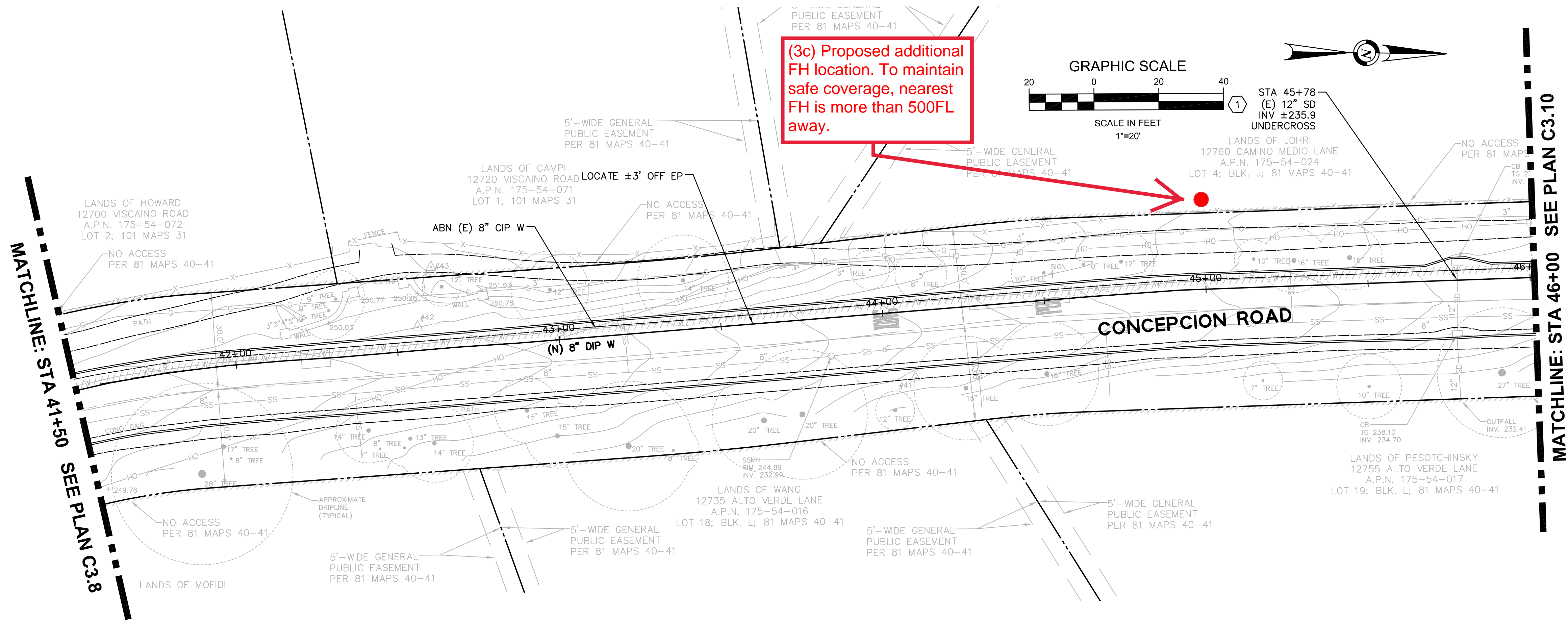
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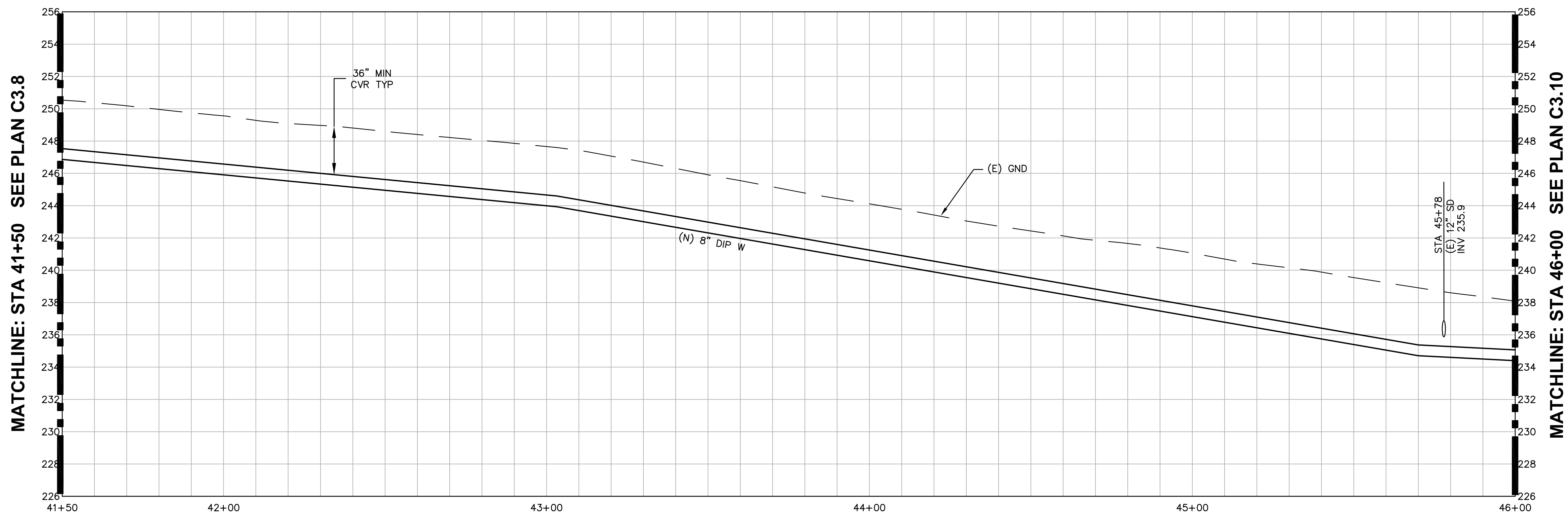
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PURISSIMA HILLS WATER DISTRICT CONCEPCION ROAD-FREMONT ROAD IMPROVEMENTS CONCEPCION ROAD - PLAN AND PROFILE STA 29+00 TO STA 33+00				Pakpour Consulting Group, Inc. 5776 Stoneridge Mall Road, Ste 320 Pleasanton, CA 94588 P: 925.224.7717 F: 925.224.7726 www.pgengr.com				REVISIONS	
DATE	11/6/20	SCALE	AS NOTED	DESIGNED:	DAVID LIEBRENZ	CHECKED:	WILLIAM LAI	NO.	
PCG JOB NO.		10002.37		APPROVED:	DAVID LIEBRENZ/WILLIAM LAI	JOUBIN PAKPOUR		DESCRIPTION	
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SHEET	13	OF	23						

REVIEWED BY:	DATE:	REVIEWED BY:	DATE:



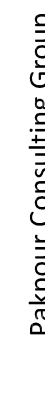

PLAN VIEW



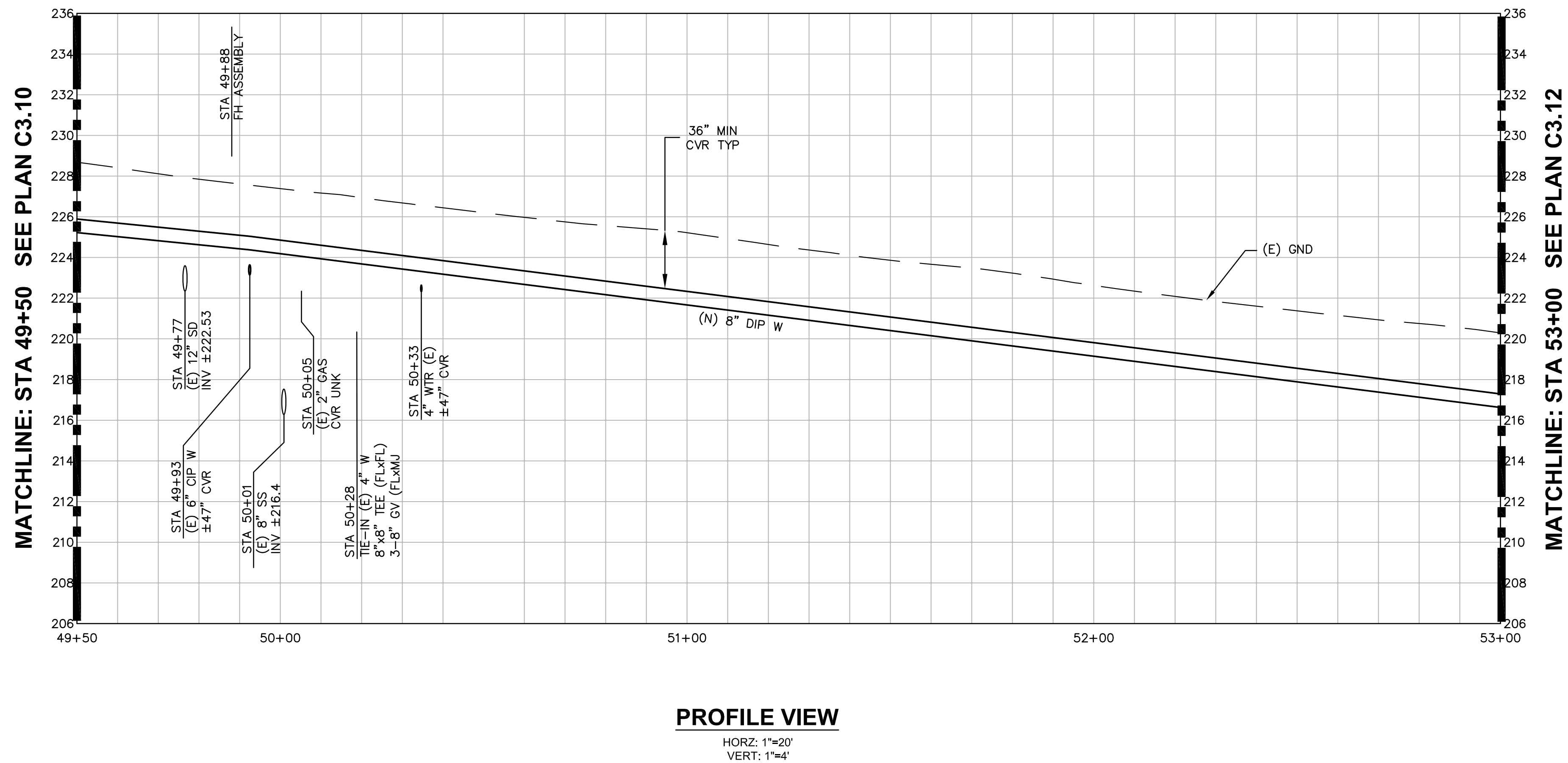
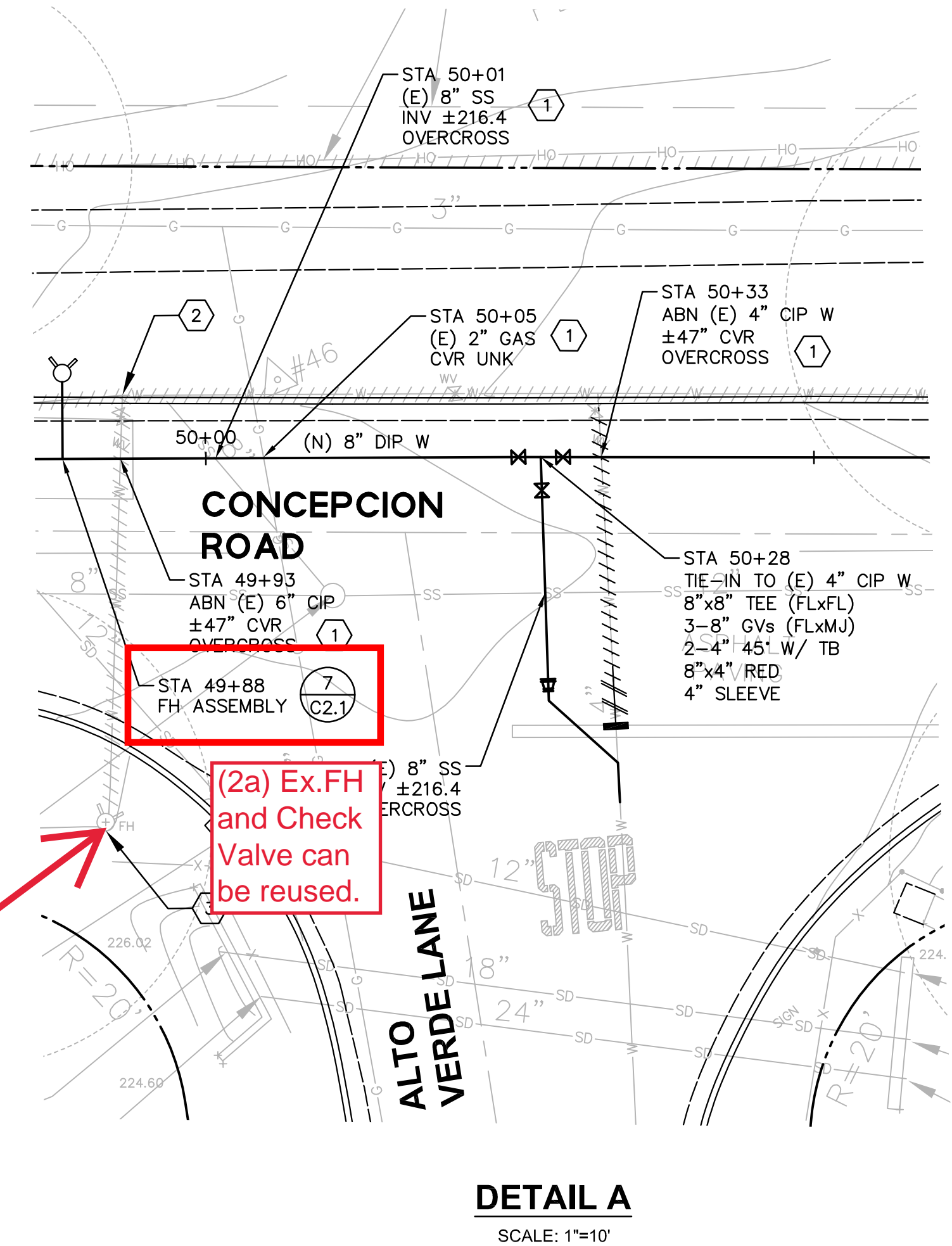
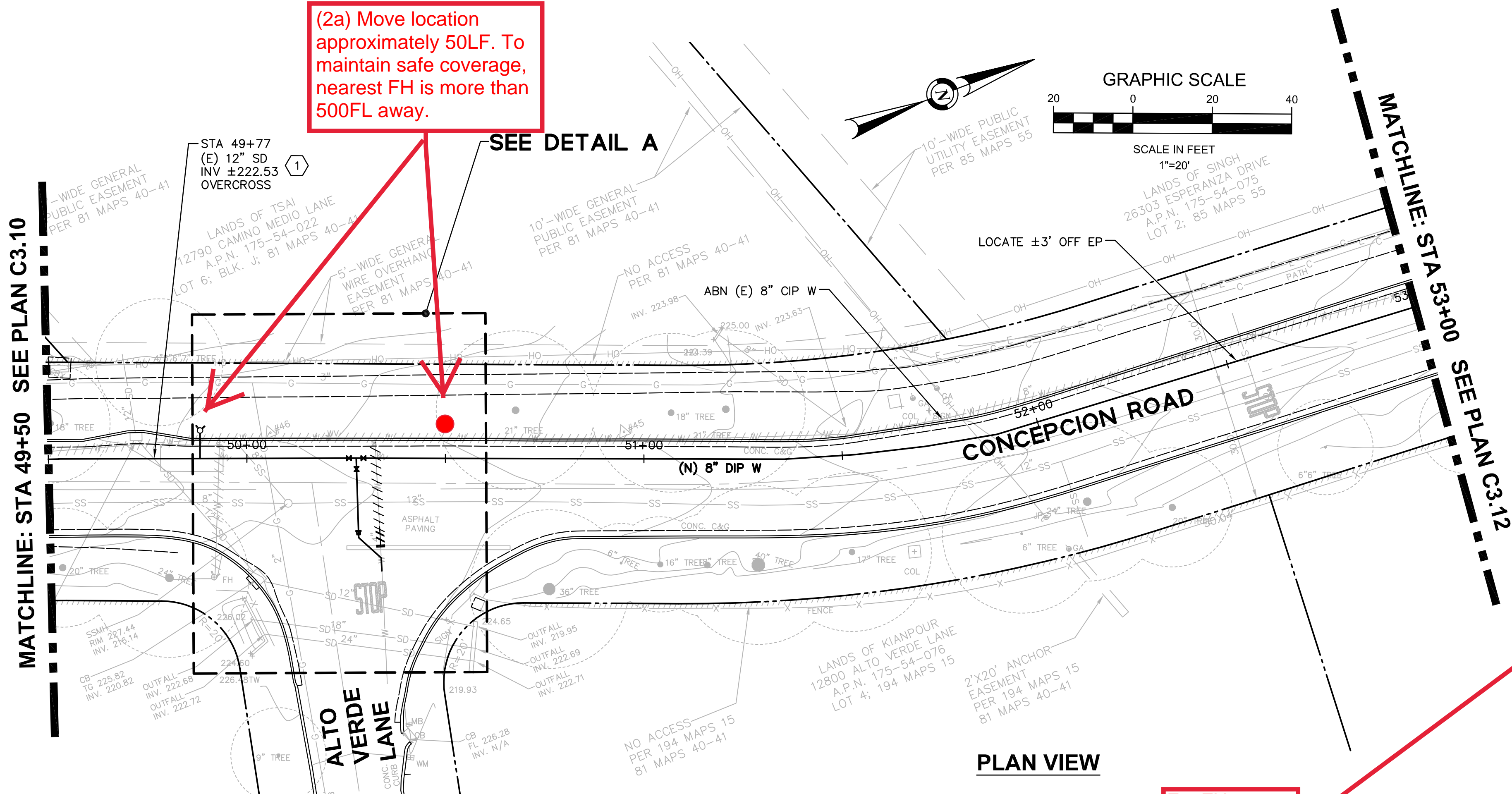
PROFILE VIEW

HORZ: 1"=20'
VERT: 1"=4'


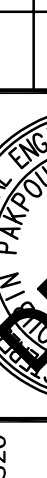
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<div> <div>  <p> Pakpour Consulting Group, Inc. 5776 Stoneridge Mall Road, Ste 320 Pleasanton, CA 94588 P: 925.224.7717 F: 925.224.7726 www.pcgengr.com </p> </div> <div> <p> PURISSIMA HILLS WATER DISTRICT CONCEPCION ROAD--FREMONT ROAD IMPROVEMENTS CONCEPCION ROAD - PLAN AND PROFILE STA 41+50 TO STA 46+00 </p> </div> </div>		<div> <div> <p> DATE 11/6/20 </p> </div> <div> <p> SCALE AS NOTED </p> </div> </div>	
PCG JOB NO. 10002.37		PLAN C3.9 SHEET 16 OF 23	
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<div> <div> <p> DESIGNED: DAVID LIEBENZ/WILLIAM LAI </p> </div> <div> <p> APPROVED: JOUBIN PAKPOUR </p> </div> </div>		<div> <div> <p> NO. </p> </div> <div> <p> DESCRIPTION </p> </div> </div>	
<div> <div> <p> DATE </p> </div> <div> <p> BY </p> </div> </div>		<div> <div> <p> APPROVED </p> </div> </div>	
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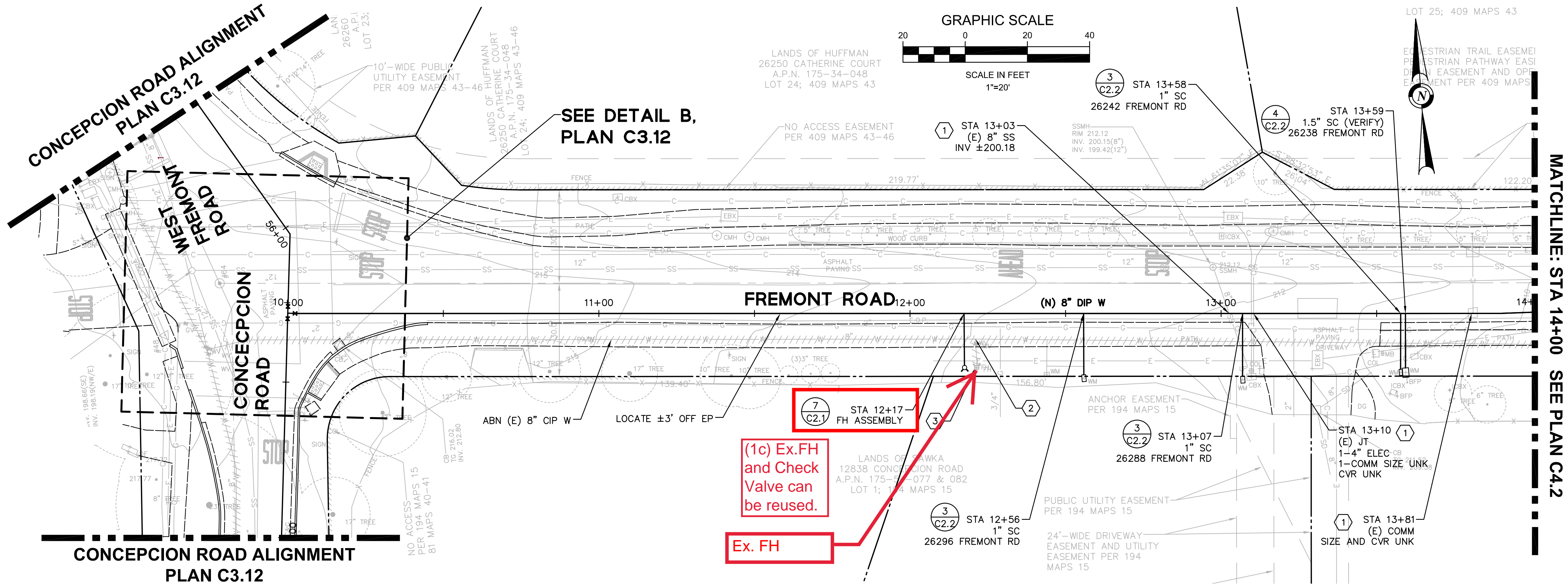
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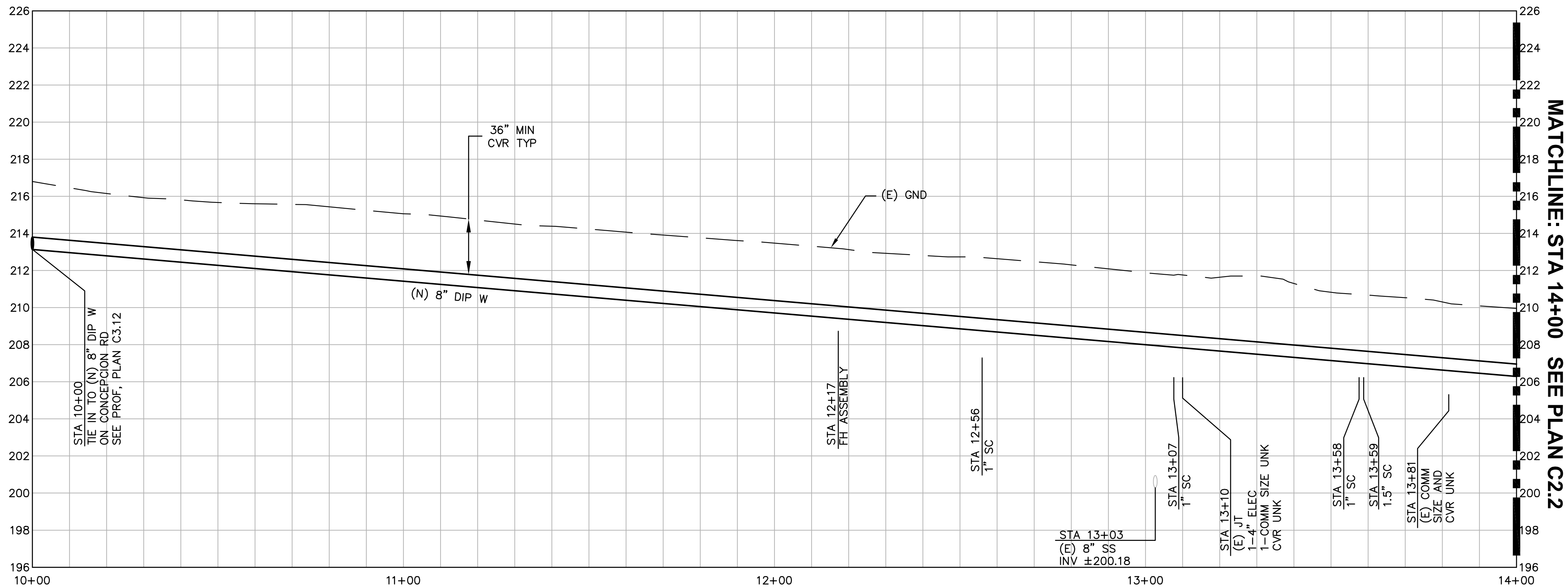


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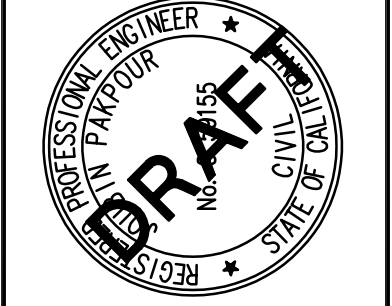
PLAN VIEW




PROFILE VIEW

HORZ: 1"=20'
VERT: 1"=4'

NO.	DESCRIPTION	DATE	BY	APPRO



	CHECKED: WILLIAM LAI
	APPROVED: JOUBIN PAKPOUR
DRAWN: DAVID LIEBENZ	DESIGNED: DAVID LIEBENZ/WILLIAM LAI

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PURISSIMA HILLS WATER DISTRICT CONCEPCION ROAD-FREMONT ROAD IMPROVEMENTS FREMONT ROAD - PLAN AND PROFILE STA 10+00 TO STA 14+00	DATE 11/6/20	SCALE AS NOTED
	PCG JOB NO. 10002.37	
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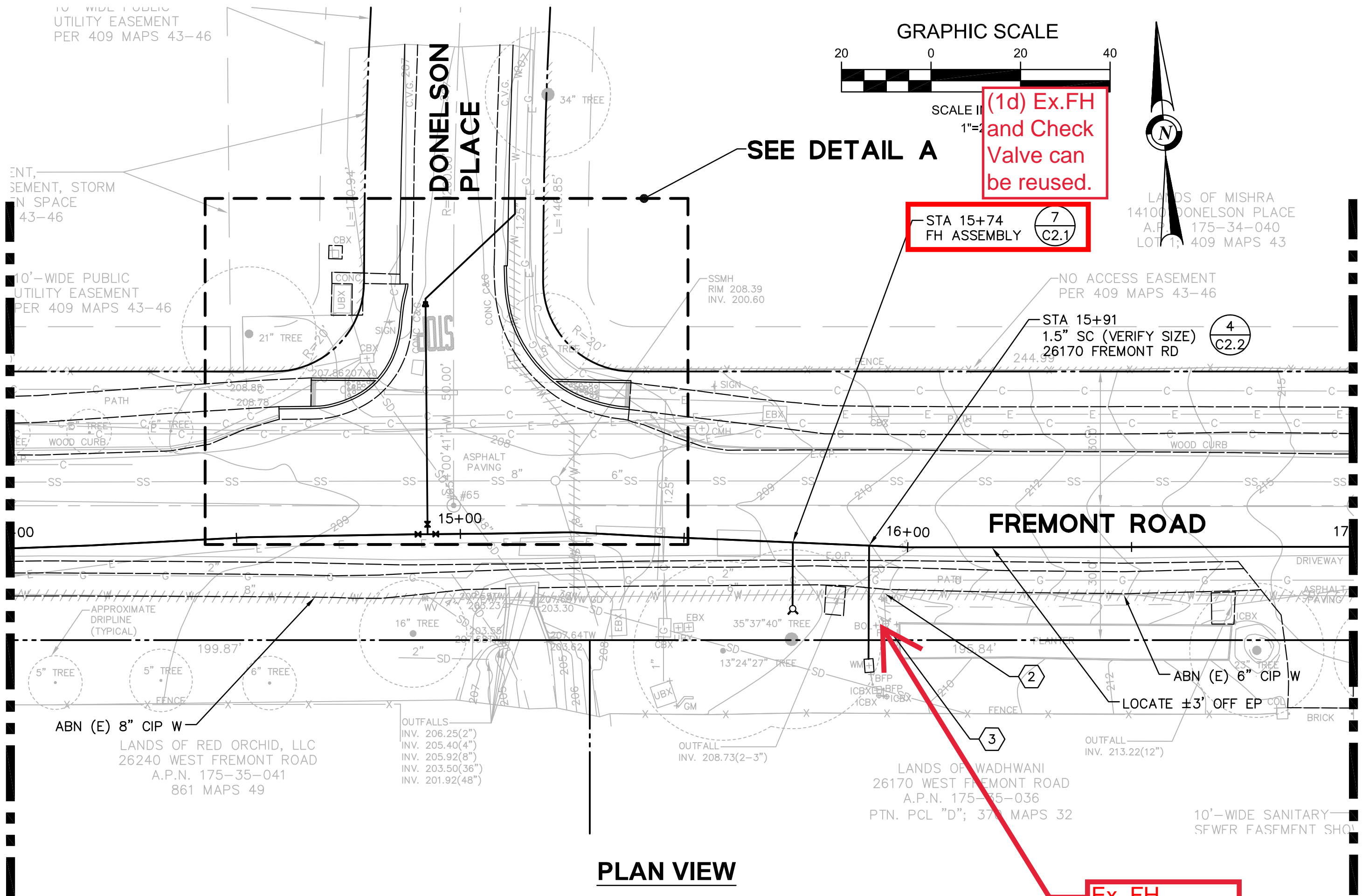
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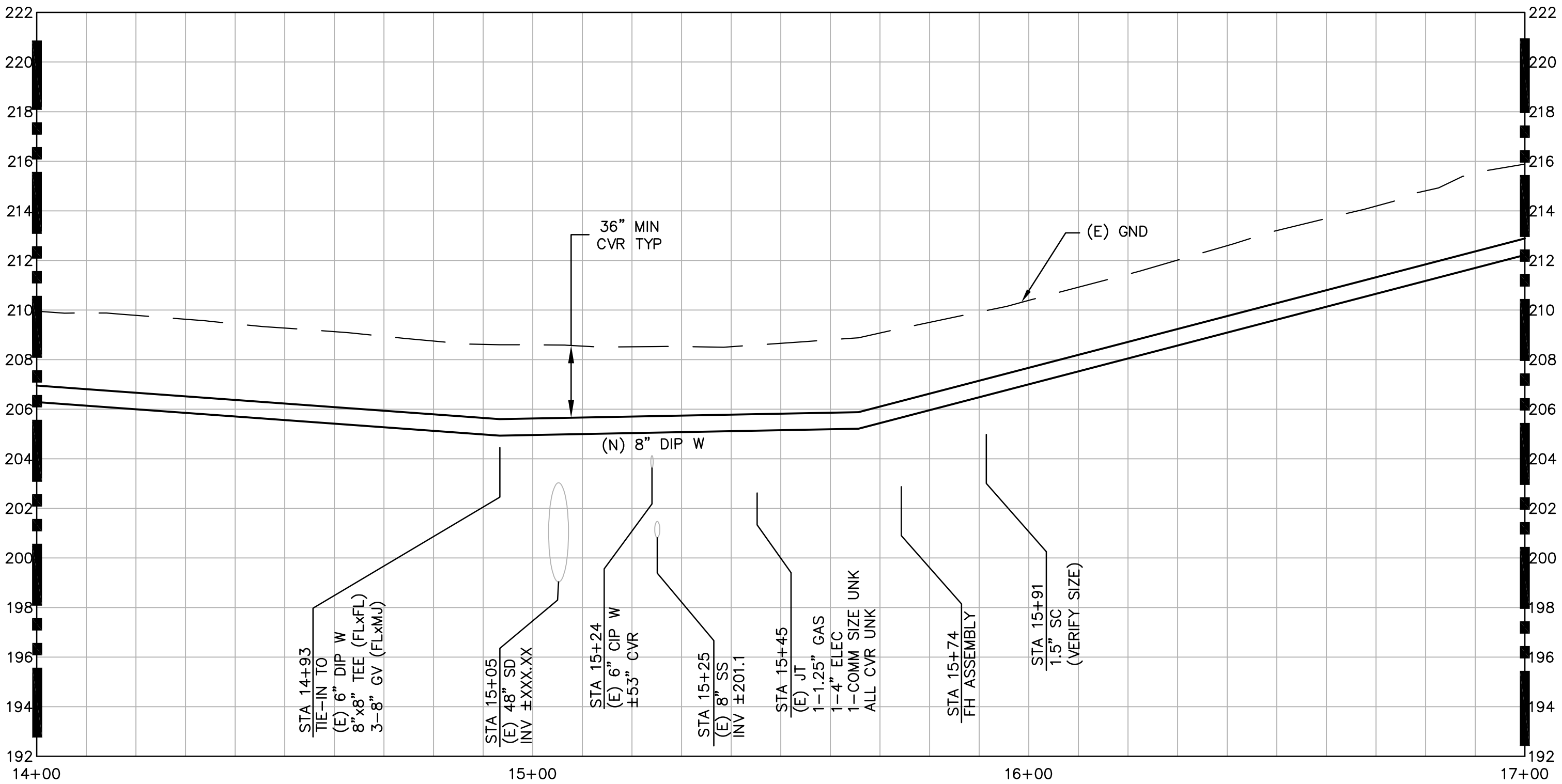
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MATCHLINE: STA 14+00 SEE PLAN C4.1



PLAN VIEW

MATCHLINE: STA 14+00 SEE PLAN C4.1

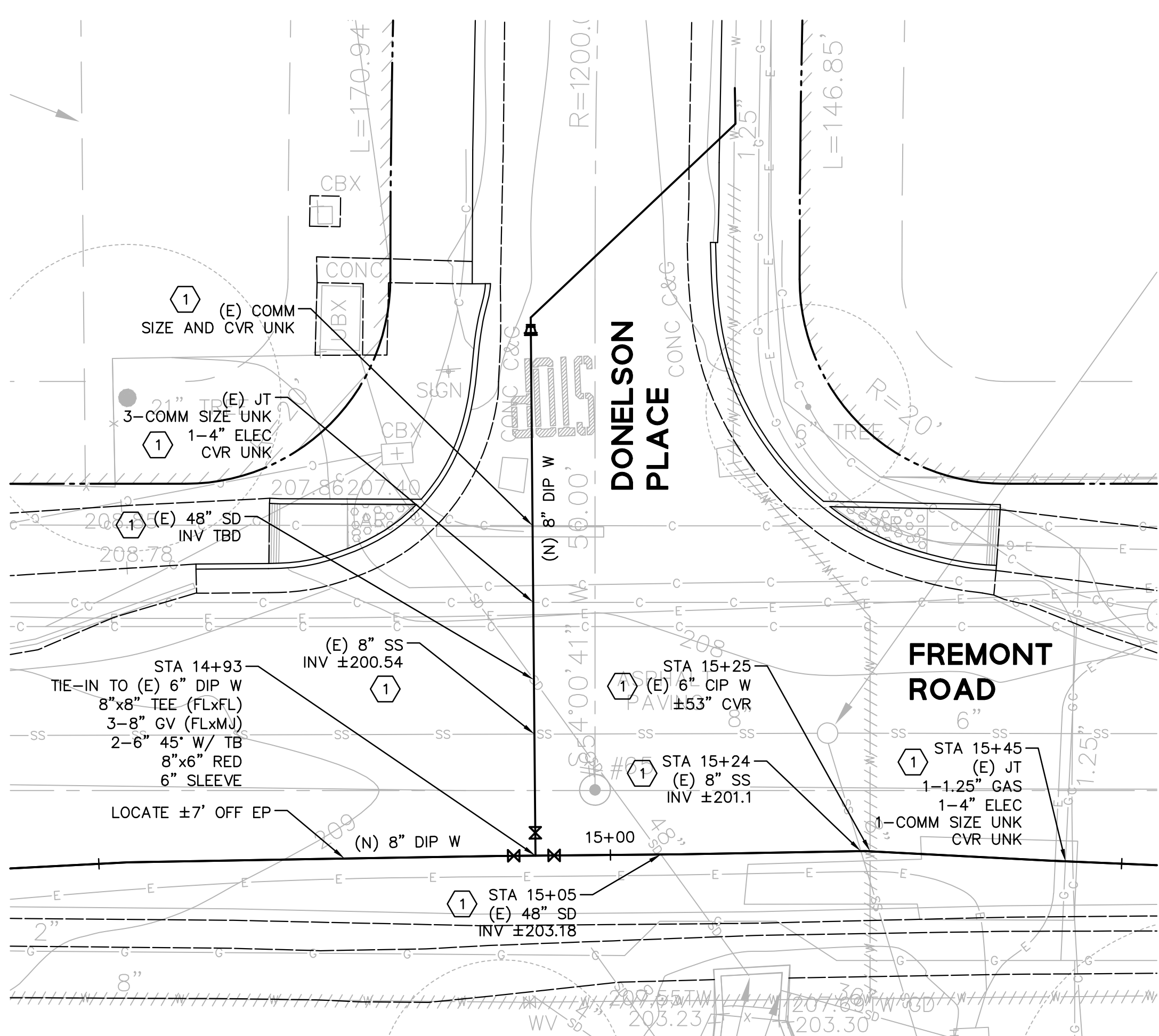


PROFILE VIEW

HORZ: 1"=20'
VERT: 1"=4'

MATCHLINE: STA 17+00 SEE PLAN C4.3

DETAIL A
SCALE: 1"=10'



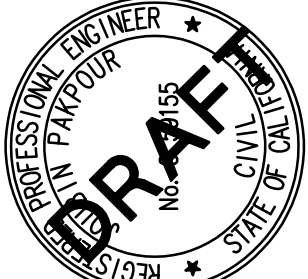
PURISSIMA HILLS WATER DISTRICT
CONCEPCION ROAD-FREMONT
ROAD IMPROVEMENTS
FREMONT ROAD - PLAN AND PROFILE
STA 14+00 TO STA 17+00

DATE	11/6/20	SCALE	AS NOTED
PCG JOB NO.	10002.37	PLAN	C4.2
SHEET	21	OF	23

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DESIGNED: DAVID LIEBENZ/WILLIAM LAI
CHECKED: WILLIAM LAI
APPROVED: JOUBIN PAKPOUR



REVISIONS

NO.	DESCRIPTION	DATE	BY	APPRO

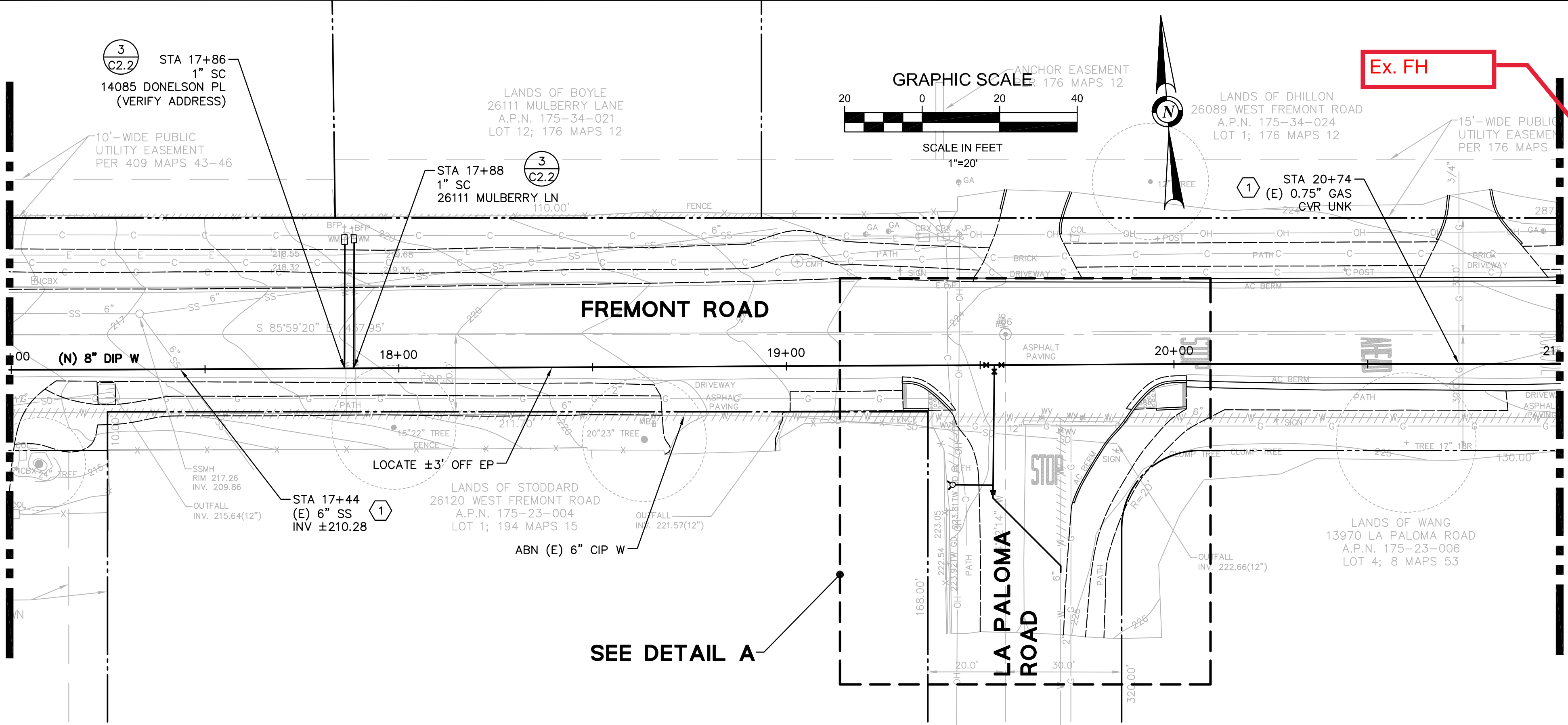
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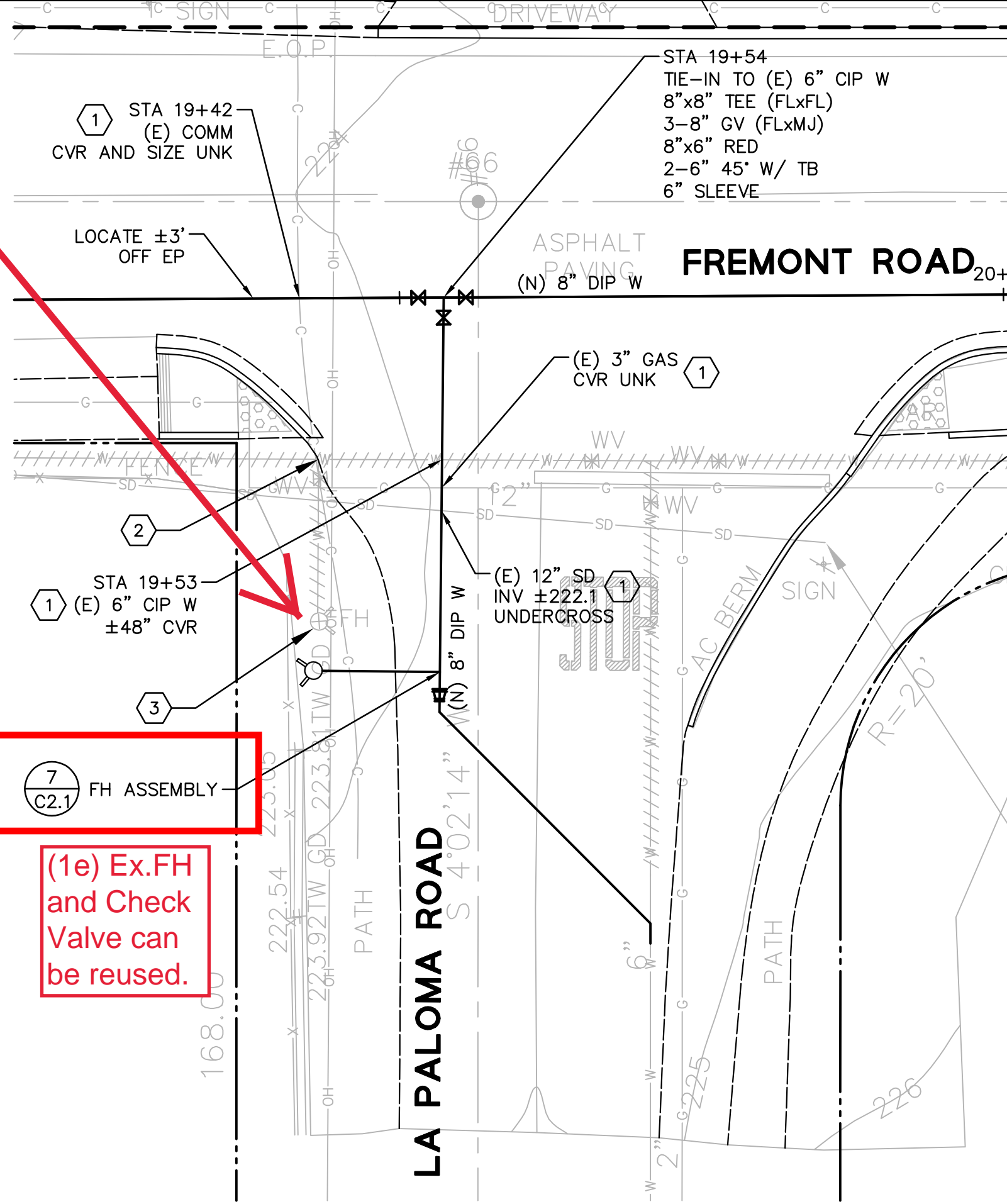
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MATCHLINE: STA 17+00 SEE PLAN C4.2

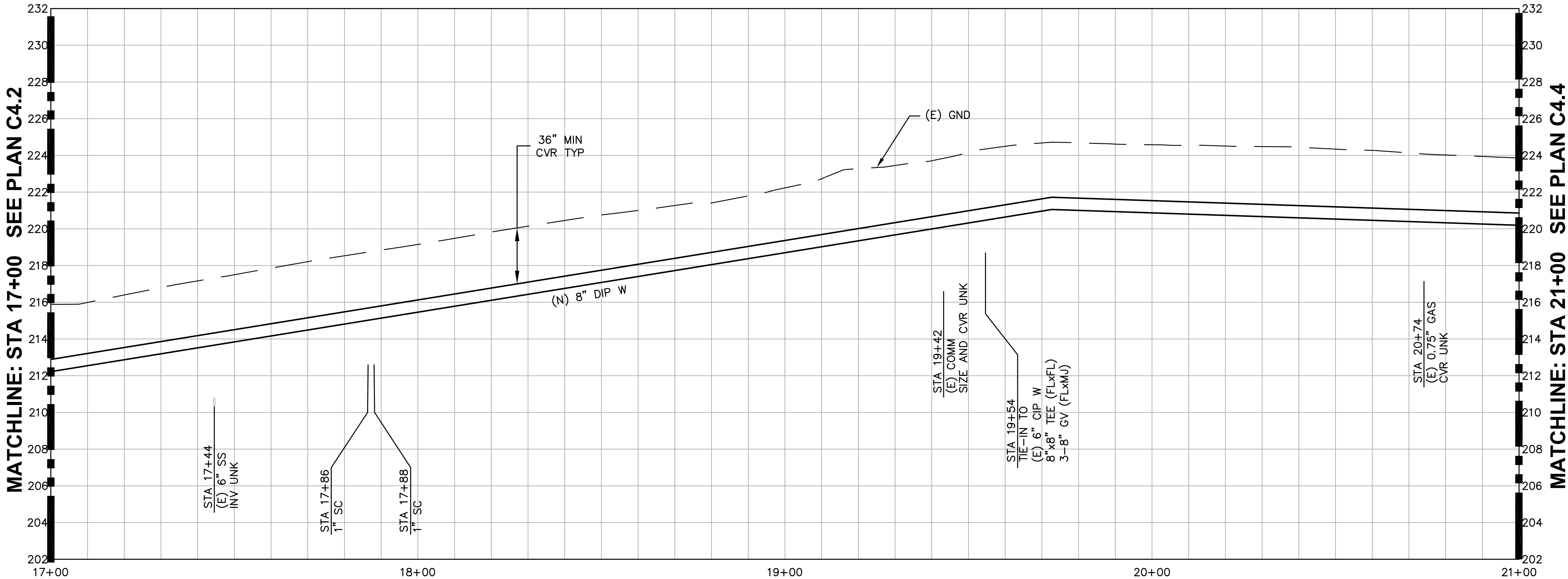


PLAN VIEW

MATCHLINE: STA 21+00 SEE PLAN C4.4



DETAIL A
SCALE: 1"=10'



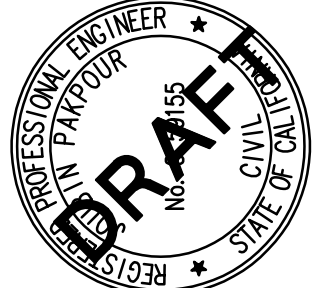
PROFILE VIEW

HORIZ: 1"=20'
VERT: 1"=4'

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NO.	DESCRIPTION	DATE	BY	APPRO



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PURISSIMA HILLS WATER DISTRICT
CONCEPCION ROAD-FREMONT
ROAD IMPROVEMENTS
FREMONT ROAD - PLAN AND PROFILE
STA 17+00 TO STA 21+00

DATE 11/6/20	SCALE AS NOTED
PCG JOB NO. 10002.37	
PLAN SHEET 22 OF 23	