

Snipes-Dye Associates
Palomar College Project
Subsurface Utility Report
July 19, 2018



UNDERGROUND SOLUTIONS



July 19, 2018

Mr. Eduardo Cadena, PE
Snipes-Dye Associates
8348 Center Drive, Suite G
La Mesa, CA 91942-2910

Dear Mr. Cadena:

I would like to take this opportunity to personally thank you for putting your trust in Underground Solutions, Inc. to perform the utility locating on this project. Over the last 13 years USI has prided itself on being the potholing company of choice of our clients, we have a 99% repeat customer base. Your opinion matters to us. We welcome any comments or suggestions that will help us improve our service and keep you coming back.

The following proprietary report details our findings for the pothole locations identified by your company, complete with photographs of individual utilities found during our investigation. Underground Solutions' mission statement has never changed; we strive to provide the most professional and accurate state-of-the-art service. This is achieved by our top of the line equipment and professional field team.

Once again, thank you for this opportunity and we look forward to a continued working relationship with you and your firm!

Sincerely,

Michael E Arme
President
Underground Solutions, Inc.



Your First Choice For Potholing Services

120 N. Andreasen Dr., Escondido, CA 92029 Ph# 760/ 294-9449 Fax# 760/ 294-9490



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POTHOLE SUMMARY SHEET(S)



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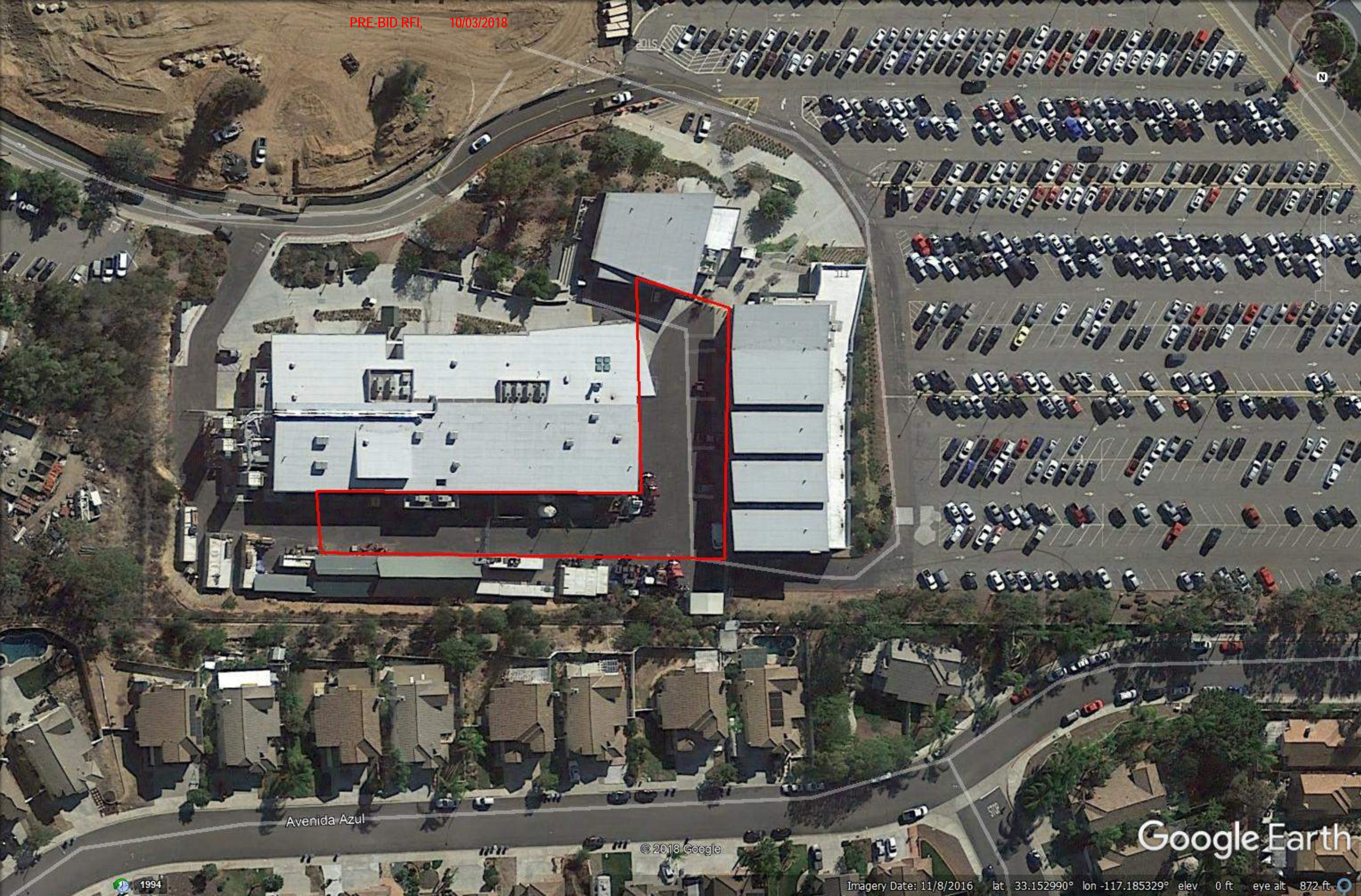
Pothole Summary Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
1		G	2.85	3.01	1.5"	PE	22.20 ft from bldg	E/W
2		SWR	6.05	6.59	6"	PVC	28.40 ft from corner of bldg	E/W
3		Dry Hole	0.00	0.00		N/A		Unknown
4		F/O	3.75	5.01	1.00' wide	ENC	18.10 ft from SD	NE/SW
5		F/O	2.64	3.02	1", 1.5", 2.5"	PVC	10.05 ft from SD grate	NW/SE
6		SD	3.40	4.41	12"	CPVC	15.75 ft from SD grate	E/W
7		E	1.23	0.00	UNK	ENC	14.50 ft from STLT	E/W
7-1		G	1.92	2.04	0.75"	PE	10.00 ft from STLT	N/S
7-1		W	1.91	2.04	0.75"	COPP	9.95 ft from STLT	N/S
7-1		W	1.90	1.97	0.75"	COPP	9.80 ft from STLT	N/S
8		E	1.08	0.00	3.10' wide	ENC	30.20 ft from corner bldg	E/W
8-1		Dry Hole	0.00	0.00		N/A		Unknown



AREA MAP(S) / POTHOLE EXHIBIT



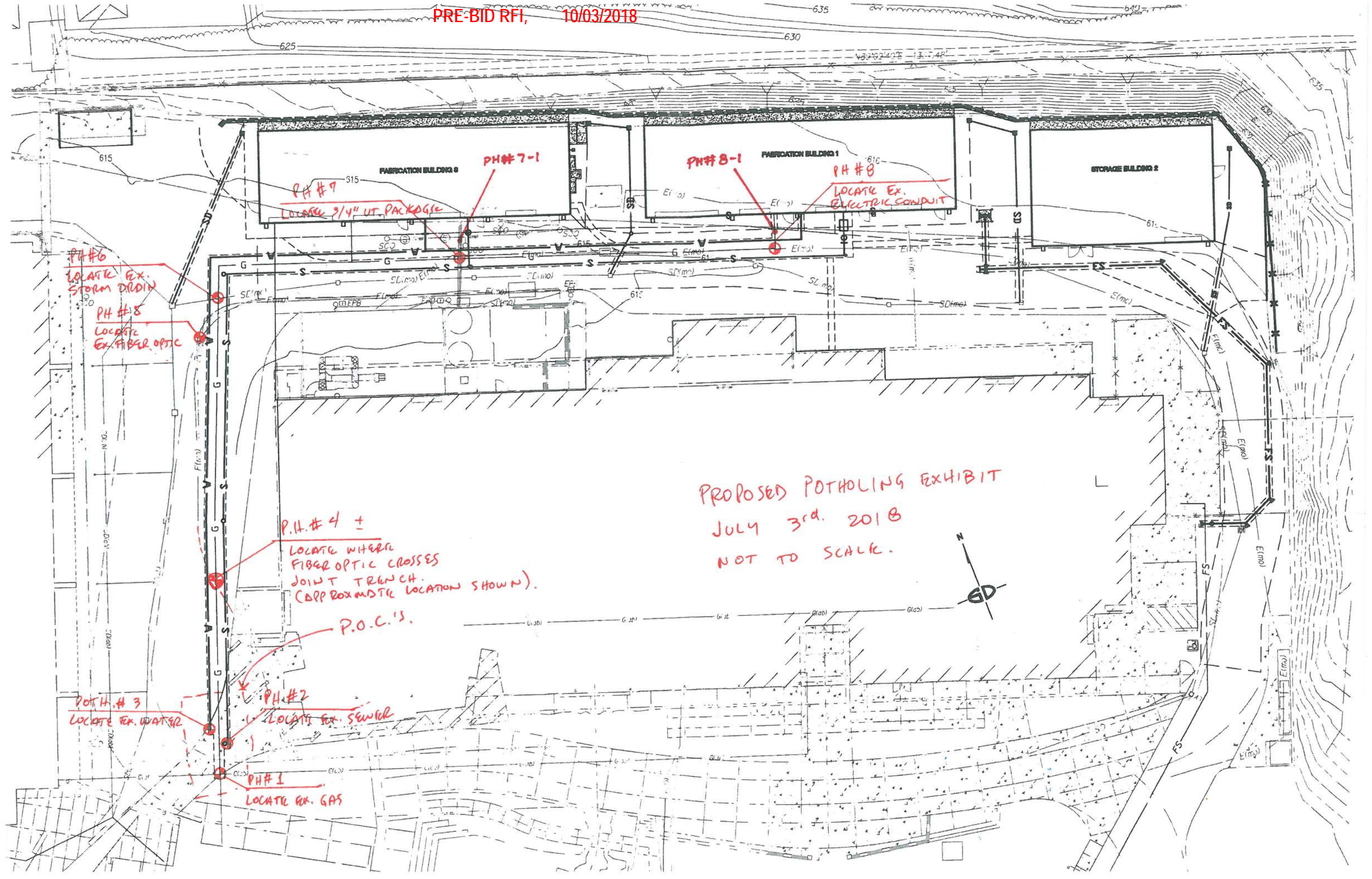
Avenida Azul

© 2018 Google

Google Earth

1994

Imagery Date: 11/8/2016 lat 33.152990° lon -117.185329° elev 0 ft eye alt 872 ft



PROPOSED POTHOLING EXHIBIT
JULY 3rd. 2018
NOT TO SCALE.



POTHOLE REPORT



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Subsurface Utility Report

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Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
1		G	2.85	3.01	1.5"	PE	22.20 ft from bldg	E/W

Comments					
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14022	Log Date:	07/16/2018	Soil Type:	Clay
Asphalt Depth:	0	Concrete Depth:	0.45	Marker:	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
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Date	July 19, 2018

Pothole: 1

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
2		SWR	6.05	6.59	6"	PVC	28.40 ft from corner of bldg	E/W

Comments					
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14028	Log Date:	07/17/2018	Soil Type:	Clay
Asphalt Depth:	0	Concrete Depth:	0.45	Marker:	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 2

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

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Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
3		Dry Hole	0.00	0.00		N/A		Unknown

Comments	No utility found to 5.98 ft. PH located 32.00 ft from bldg.				
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14021	Log Date:	07/16/2018	Soil Type:	Clay
Asphalt Depth:	0.35	Concrete Depth:	0.85 base	Marker:	Paint

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 3

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

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Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
4		F/O	3.75	5.01	1.00' wide	ENC	18.10 ft from SD	NE/SW

Comments					
<u>Operator:</u>	Munson, Tyler	<u>Technician:</u>	Iokia III, Samuel	<u>Vehicle:</u>	USI 6
<u>Field Log #:</u>	14028	<u>Log Date:</u>	07/17/2018	<u>Soil Type:</u>	Clay
<u>Asphalt Depth:</u>	0.50	<u>Concrete Depth:</u>	1.10 base	<u>Marker:</u>	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
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Pothole: 4

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

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Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
5		F/O	2.64	3.02	1", 1.5", 2.5"	PVC	10.05 ft from SD grate	NW/SE

Comments					
<u>Operator:</u>	Munson, Tyler	<u>Technician:</u>	Iokia III, Samuel	<u>Vehicle:</u>	USI 6
<u>Field Log #:</u>	14028	<u>Log Date:</u>	07/17/2018	<u>Soil Type:</u>	Clay
<u>Asphalt Depth:</u>	0.50	<u>Concrete Depth:</u>	1.10 base	<u>Marker:</u>	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 5

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
6		SD	3.40	4.41	12"	CPVC	15.75 ft from SD grate	E/W

Comments					
<u>Operator:</u>	Munson, Tyler	<u>Technician:</u>	Iokia III, Samuel	<u>Vehicle:</u>	USI 6
<u>Field Log #:</u>	14021	<u>Log Date:</u>	07/16/2018	<u>Soil Type:</u>	Clay
<u>Asphalt Depth:</u>	0.35	<u>Concrete Depth:</u>	0.85 base	<u>Marker:</u>	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 6

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

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Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
7		E	1.23	0.00	UNK	ENC	14.50 ft from STLT	E/W

Comments	* Unable to expose bottom of ENC due to native/rocky soil conditions				
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14023	Log Date:	07/16/2018	Soil Type:	Clay
Asphalt Depth:	0.35	Concrete Depth:	0.85 base	Marker:	Paint

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 7

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
7-1		G	1.92	2.04	0.75"	PE	10.00 ft from STLT	N/S

Comments					
<u>Operator:</u>	Munson, Tyler	<u>Technician:</u>	Iokia III, Samuel	<u>Vehicle:</u>	USI 6
<u>Field Log #:</u>	14023	<u>Log Date:</u>	07/16/2018	<u>Soil Type:</u>	Clay
<u>Asphalt Depth:</u>	0.35	<u>Concrete Depth:</u>	0.85 base	<u>Marker:</u>	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 7-1

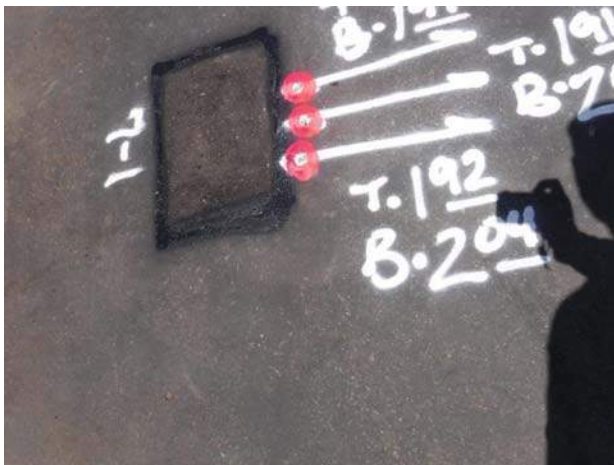
Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

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Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
7-1		W	1.91	2.04	0.75"	COPP	9.95 ft from STLT	N/S

Comments					
<u>Operator:</u>	Munson, Tyler	<u>Technician:</u>	Iokia III, Samuel	<u>Vehicle:</u>	USI 6
<u>Field Log #:</u>	14023	<u>Log Date:</u>	07/16/2018	<u>Soil Type:</u>	Clay
<u>Asphalt Depth:</u>	0.35	<u>Concrete Depth:</u>	0.85 base	<u>Marker:</u>	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 7-1

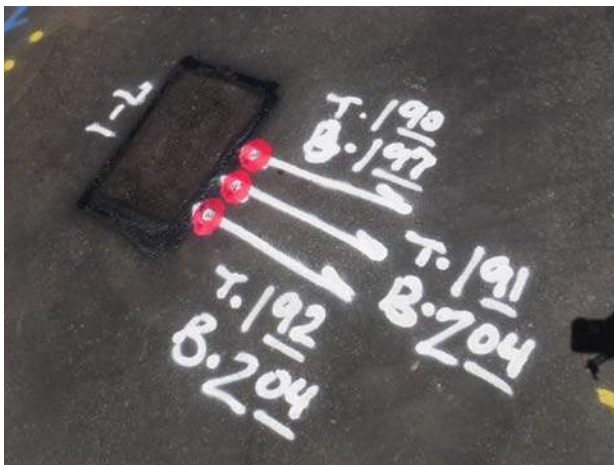
Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

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Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
7-1		W	1.90	1.97	0.75"	COPP	9.80 ft from STLT	N/S

Comments					
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14023	Log Date:	07/16/2018	Soil Type:	Clay
Asphalt Depth:	0.35	Concrete Depth:	0.85 base	Marker:	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 7-1

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
8		E	1.08	0.00	3.10' wide	ENC	30.20 ft from corner bldg	E/W

Comments	* Unable to expose bottom of ENC due to native/rocky soil conditions				
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14021	Log Date:	07/16/2018	Soil Type:	Clay
Asphalt Depth:	0.35	Concrete Depth:	0.85 base	Marker:	PK Nail

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
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Date	July 19, 2018

Pothole: 8

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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Subsurface Utility Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

PH#	Station	Utility	Top (ft)	Bottom (ft)	Size	Type	Distance From Curb	Direction
8-1		Dry Hole	0.00	0.00		N/A		Unknown

Comments	* Native soil exposed at 0.86- unable to continue dig.				
Operator:	Munson, Tyler	Technician:	Iokia III, Samuel	Vehicle:	USI 6
Field Log #:	14021	Log Date:	07/16/2018	Soil Type:	Clay
Asphalt Depth:	0.50	Concrete Depth:	0	Marker:	Paint

Pre-Excavation Photo



Subsurface Photo



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Subsurface Utility Report

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Location	San Marcos, CA
Date	July 19, 2018

Pothole: 8-1

Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo



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DATA & PHOTO LOGS

Date: 7-16-2018

Customer: SNIPES DYE

Project Name: PALOMAR COLLEGE

No 14023

Vac Truck #: 06

Technicians: TYLER M. / SAM I.

Location: SAN MARCOS

POT HOLE #	7	Soil Type:	CLAY	Asphalt Depth:	0 35	Concrete Depth:	BASE 0 85	Plan Sheet#	-	Slot Trench: Width: _____ x Length _____ x Depth _____
		Marker:	PAINT	Station #	-	Pre-Exc. Photo#	3267	Area Photo#	3149	Comments:
Utility:	E	Material Type:	CONC ENC	Size:	UNK	Utility Direction:	E/W	Distance from Curb:	1450 FROM ST LT	* UNABLE TO EXPOSE BOTTOM OF ENC DUE TO NATIVE SOIL/ROCK CONDITIONS
Top Depth:	1 23	Bottom Depth:	N/A	Subsurface Photo#:	3136	Depth Photo (T) #:	3137	Depth Photo (B) #:	N/A	Finish Photo#:
										Additional Photo#
										-
POT HOLE #	7-1	Soil Type:	CLAY	Asphalt Depth:	0 35	Concrete Depth:	BASE 0 85	Plan Sheet#	-	Slot Trench: Width: _____ x Length _____ x Depth _____
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3138	Area Photo#	3153	Comments:
Utility:	G	Material Type:	PE	Size:	3/4"	Utility Direction:	N/S	Distance from Curb:	1000 FROM ST LT	
Top Depth:	1 92	Bottom Depth:	2 04	Subsurface Photo#:	3139	Depth Photo (T) #:	3139 3140	Depth Photo (B) #:	3141	Finish Photo#:
										Additional Photo#
										-
POT HOLE #	7-1	Soil Type:	CLAY	Asphalt Depth:	0 35	Concrete Depth:	BASE 0 85	Plan Sheet#	-	Slot Trench: Width: _____ x Length _____ x Depth _____
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3138	Area Photo#	3153	Comments:
Utility:	W	Material Type:	COPP	Size:	3/4"	Utility Direction:	N/S	Distance from Curb:	995 FROM ST LT	
Top Depth:	1 91	Bottom Depth:	2 04	Subsurface Photo#:	3142	Depth Photo (T) #:	3143	Depth Photo (B) #:	3144	Finish Photo#:
										Additional Photo#
										-
POT HOLE #	7-1	Soil Type:	CLAY	Asphalt Depth:	0 35	Concrete Depth:	BASE 0 85	Plan Sheet#	-	Slot Trench: Width: _____ x Length _____ x Depth _____
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3138	Area Photo#	3153	Comments:
Utility:	W	Material Type:	COPP	Size:	3/4"	Utility Direction:	N/S	Distance from Curb:	980 FROM ST LT	
Top Depth:	1 90	Bottom Depth:	1 97	Subsurface Photo#:	3145	Depth Photo (T) #:	3146	Depth Photo (B) #:	3147	Finish Photo#:
										Additional Photo#
										-

Date: 7-16-2018

Customer: SNIPE'S DYE

Project Name: PALMAR COLLEGE

No 14021

Vac Truck #: 06

Technicians: TYLER M. / SAM I.

Location: SAN MARCOS

POT HOLE #	8	Soil Type:	CLAY	Asphalt Depth:	035	Concrete Depth:	BASE 085	Plan Sheet#	-	Slot Trench: Width: 100 x Length: 500 x Depth: 108			
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3154 3204	Area Photo#	3162	Comments:			
Utility:	E	Material Type:	CONC ENC	Size:	(WIDTH) 310	Utility Direction:	E/W	Distance from Curb:	3020 FROM CORNER OF BLDG	* UNABLE TO EXPOSE BOTTOM DEPTH OF ENC DUE TO NATIVE SOIL CONDITIONS. STOPPED ATTEMPT BY CUSTOMER REQUEST.			
Top Depth:	108	Bottom Depth:	-	Subsurface Photo#:	3155	Depth Photo (T) #:	3156	Depth Photo (B) #:	-	Finish Photo#:	3161	Additional Photo#	3160
POT HOLE #	8-1	Soil Type:	CLAY	Asphalt Depth:	050	Concrete Depth:	-	Plan Sheet#	-	Slot Trench: Width: _____ x Length: _____ x Depth: _____			
		Marker:	PANT	Station #	-	Pre-Exc. Photo#	3205	Area Photo#	3164	Comments:			
Utility:	N/A	Material Type:	-	Size:	-	Utility Direction:	-	Distance from Curb:	3500 FROM CORNER OF BLDG	* NATIVE SOIL CONDITIONS EXPOSED ROCK AT 080 UNABLE TO DIG PAST. (DRY HOLE) NO UTILITY FOUND.			
Top Depth:	080	Bottom Depth:	-	Subsurface Photo#:	3158	Depth Photo (T) #:	3159	Depth Photo (B) #:	-	Finish Photo#:	3163	Additional Photo#	-
POT HOLE #	6	Soil Type:	CLAY	Asphalt Depth:	035	Concrete Depth:	BASE 085	Plan Sheet#	-	Slot Trench: Width: _____ x Length: _____ x Depth: _____			
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3165	Area Photo#	3170	Comments:			
Utility:	SD	Material Type:	CPVC	Size:	12"	Utility Direction:	E/W	Distance from Curb:	1575 FROM SD GATE				
Top Depth:	340	Bottom Depth:	441	Subsurface Photo#:	3166	Depth Photo (T) #:	3167	Depth Photo (B) #:	3168	Finish Photo#:	3169	Additional Photo#	-
POT HOLE #	3	Soil Type:	CLAY	Asphalt Depth:	035	Concrete Depth:	BASE 085	Plan Sheet#	-	Slot Trench: Width: _____ x Length: _____ x Depth: _____			
		Marker:	PAINT	Station #	-	Pre-Exc. Photo#	3206	Area Photo#	3175	Comments:			
Utility:	W	Material Type:	-	Size:	-	Utility Direction:	-	Distance from Curb:	3200 FROM BLDG	* (DRY HOLE) CLEARED TO 598 NO UTILITY FOUND			
Top Depth:	-	Bottom Depth:	598	Subsurface Photo#:	3172	Depth Photo (T) #:	-	Depth Photo (B) #:	3173	Finish Photo#:	3174	Additional Photo#	-



Date: 7-16-2018
 Customer: SNIPES DYE
 Project Name: PALOMAR COLLEGE

No. 14022 Vac Truck #: 06
 Technicians: TYLER M. / SAM I.
 Location: SAN MARCOS

POT HOLE #	1	Soil Type:	CLAY	Asphalt Depth:	N/A	Concrete Depth:	0 45	Plan Sheet#	-	Slot Trench: Width: _____ x Length _____ x Depth _____	
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3176	Area Photo#	3181	Comments:	
Utility:	G	Material Type:	PE	Size:	1 1/2"	Utility Direction:	E/W	Distance from Curb:	22' 20" FROM BLDG		
Top Depth:	285	Bottom Depth:	301	Subsurface Photo#:	3177	Depth Photo (T) #:	3178	Depth Photo (B) #:	3179	Finish Photo#:	3180
										Additional Photo#	-
POT HOLE #		Soil Type:		Asphalt Depth:		Concrete Depth:		Plan Sheet#		Slot Trench: Width: _____ x Length _____ x Depth _____	
		Marker:		Station #		Pre-Exc. Photo#		Area Photo#		Comments:	
Utility:		Material Type:		Size:		Utility Direction:		Distance from Curb:			
Top Depth:		Bottom Depth:		Subsurface Photo#:		Depth Photo (T) #:		Depth Photo (B) #:		Finish Photo#:	
										Additional Photo#	
POT HOLE #		Soil Type:		Asphalt Depth:		Concrete Depth:		Plan Sheet#		Slot Trench: Width: _____ x Length _____ x Depth _____	
		Marker:		Station #		Pre-Exc. Photo#		Area Photo#		Comments:	
Utility:		Material Type:		Size:		Utility Direction:		Distance from Curb:			
Top Depth:		Bottom Depth:		Subsurface Photo#:		Depth Photo (T) #:		Depth Photo (B) #:		Finish Photo#:	
										Additional Photo#	
POT HOLE #		Soil Type:		Asphalt Depth:		Concrete Depth:		Plan Sheet#		Slot Trench: Width: _____ x Length _____ x Depth _____	
		Marker:		Station #		Pre-Exc. Photo#		Area Photo#		Comments:	
Utility:		Material Type:		Size:		Utility Direction:		Distance from Curb:			
Top Depth:		Bottom Depth:		Subsurface Photo#:		Depth Photo (T) #:		Depth Photo (B) #:		Finish Photo#:	
										Additional Photo#	

Date: 7-17-2018

Customer: SNIPES DYE

Project Name: PALOMAR COLLEGE

No 14028

Vac Truck #: 06

Technicians: TYLER M. / SAM I.

Location: SAN MARCOS

POT HOLE #	5	Soil Type:	CLAY	Asphalt Depth:	0.50	Concrete Depth:	BASE 1.10	Plan Sheet#	-	Slot Trench: Width:	1.00	x Length	3.00	x Depth	6.00
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3208	Area Photo#	3189	Comments:					
Utility:	F10	Material Type:	PVC	Size:	1(1") 1(1 1/2") 1(2 1/2")	Utility Direction:	NW/SE	Distance from Curb:	10.05	FROM SD GRATE					
Top Depth:	2.64	Bottom Depth:	3.02	Subsurface Photo#:	3185	Depth Photo (T) #:	3186	Depth Photo (B) #:	3187	Finish Photo#:	3188	Additional Photo# -			
POT HOLE #	4	Soil Type:	CLAY	Asphalt Depth:	0.50	Concrete Depth:	BASE 1.10	Plan Sheet#	-	Slot Trench: Width:	1.00	x Length	2.00	x Depth	6.50
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3209	Area Photo#	3201	Comments:					
Utility:	F10	Material Type:	CONC ENC	Size:	WIDTH (1.00)	Utility Direction:	NE/SW	Distance from Curb:	18.10	FROM SD					
Top Depth:	3.75	Bottom Depth:	5.01	Subsurface Photo#:	3193	Depth Photo (T) #:	3194	Depth Photo (B) #:	3195	Finish Photo#:	3200	Additional Photo# -			
POT HOLE #	2	Soil Type:	CLAY	Asphalt Depth:	-	Concrete Depth:	0.45	Plan Sheet#	-	Slot Trench: Width:		x Length		x Depth	
		Marker:	PK	Station #	-	Pre-Exc. Photo#	3196	Area Photo#	3203	Comments:					
Utility:	S	Material Type:	PVC	Size:	6"	Utility Direction:	EW	Distance from Curb:	28.40	FROM CORNER OF BLDG					
Top Depth:	6.05	Bottom Depth:	6.59	Subsurface Photo#:	3197	Depth Photo (T) #:	3198	Depth Photo (B) #:	3199	Finish Photo#:	3202	Additional Photo# -			
POT HOLE #		Soil Type:		Asphalt Depth:		Concrete Depth:		Plan Sheet#		Slot Trench: Width:		x Length		x Depth	
		Marker:		Station #		Pre-Exc. Photo#		Area Photo#		Comments:					
Utility:		Material Type:		Size:		Utility Direction:		Distance from Curb:							
Top Depth:		Bottom Depth:		Subsurface Photo#:		Depth Photo (T) #:		Depth Photo (B) #:		Finish Photo#:		Additional Photo#			



PICTURE THUMBNAI LS



Underground Solutions, Inc.
120 N. Andreasen Dr. Escondido, CA 92029
(760) 294-9449 • Fax (760) 294-9490 • www.usipothole.com

Thumbnail Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 1



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo

Pothole: 2



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo

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Thumbnail Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 3



Pre-Excavation Photo



Subsurface Photo



Bottom Depth Photo



Finish Photo



Area Photo

Pothole: 4



Pre-Excavation Photo



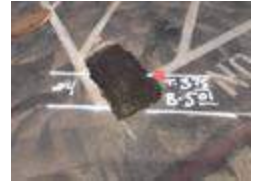
Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo

Pothole: 5



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo

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Thumbnail Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 6



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo

Pothole: 7



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Finish Photo



Additional Photo



Area Photo

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Thumbnail Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 7-1



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Subsurface Photo



Top Depth Photo



Bottom Depth Photo



Finish Photo



Area Photo

Pothole: 8



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Finish Photo



Additional Photo



Area Photo

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Thumbnail Report

Customer	Snipes-Dye Associates
Project	Palomar College
Location	San Marcos, CA
Date	July 19, 2018

Pothole: 8-1



Pre-Excavation Photo



Subsurface Photo



Top Depth Photo



Finish Photo



Area Photo

The data on this report is intended for informational purposes only. In no way should any of the information presented here be a substitute for professional engineering and design.



LEGENDS

 * UTILITY TYPE

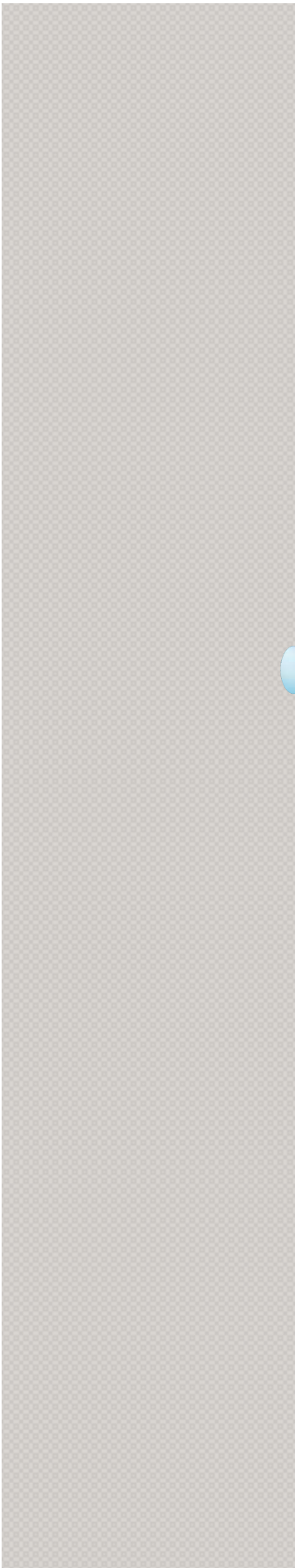
* MATERIAL TYPE

Utility Types

AV	Air Vac
B/O	Blow Off
BL	Brine Line
C/O	Clean Out
CATV	Cable Television
CATV/MH	Cable Television Manhole
CHW	Chilled Water
COMM	Communication
DBW	Direct Bury Wire
DRY HOLE	No Utility
E	Electrical
E/MH	Electrical Manhole
F	Fuel
F/O	Fiber Optic
F/O/MH	Fiber Optic Manhole
FH	Fire Hydrant
FM	Force Main
FO	Fuel Oil
G	Gas
HH	Hand Hole
ICV	Irrigation Control Valve
IRR	Irrigation
MH	Manhole
O	Oil
PETRO	Petroleum
RD	Roof Drain
RW	Reclaimed Water
S/MH	Sewer Manhole
SD	Storm Drain
SD/MH	Storm Drain Manhole
STLT	Street Light
SWR	Sewer
T	Telephone
T/MH	Telephone Manhole
T/S	Traffic Signal
UNK	Unknown
VV	Valve Vault
W	Water
WM	Water Meeter
WS	Water Service
WV	Water Valve

Material Types

ABS	Acrylonitrile-Butadiene-Styrene
ACP	Asbestos Cement Pipe
CAP	Corrugated Aluminum Pipe
CIP	Cast Iron Pipe
CIPP	Cast in Place Pipe
CLMP	Concrete Lined Metal Pipe
CMP	Concrete Metal Pipe
COPP	Copper
CPVC	Corrugated PVC
CSP	Corrugated Steel Pipe
DB	Direct Bury
DIP	Ductile Iron Pipe
ENC	Encasement
GIP	Galvanized Iron Pipe
MLC	Mortar Lined Concrete
MTD	Multiple Tile Duct
PE	Poly
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
STL	Steel
STLCS	Steel Casing
VALVE	Valve
VCP	Vitrified Clay Pipe
WIRE	Wire
WSTL	Wrapped Steel Pipe



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ANCHORAGE NOTES	
MEP COMPONENT ANCHORAGE NOTE	
ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.16 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.	
1. ALL PERMANENT EQUIPMENT AND COMPONENTS	
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD-WIRED) TO BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.	
3. MOVABLE EQUIPMENT THAT IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS IS REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.	
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.	
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.	
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS LESS THAN 5 POUNDS PER FOOT WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.	
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL, RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE	
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.	
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORDS SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.	
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E)	
MP() MD() PP(X) E() - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.	
MP() MD() PP(X) E() - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) # OPM-0043-13.	
MP() MD() PP(X) E() - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ____ AA ____ AND CONNECTION LEVEL ____ 1 ____ FOR THE PROJECT AND CONDITIONS.	
NOTE: CANNOT COMBINE FOR A SINGLE SYSTEM. SYSTEM TO BE ONE OR ANOTHER.	

PLUMBING LEGEND AND ABBREVIATIONS					
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION		ABV	ABOVE
	W	WASTE OR SEWER BELOW SLAB		AC	ABOVE CEILING
	W	WASTE OR SEWER ABOVE SLAB		A.F.F.	ABOVE FINISH FLOOR
	V	SANITARY VENT		A.F.G.	ABOVE FINISH GRADE
	CW	COLD WATER		AG	ABOVE GRADE
	HW	HOT WATER		A.P.	ACCESS PANEL
	HWR	HOT WATER RETURN		B.F.	BELOW FLOOR
	CA	COMPRESSED AIR		B.G.	BELOW GRADE
	SOV	SHUT OFF VALVE		CFH	CUBIC FEET PER HOUR
	PRV	PRESSURE REDUCING VALVE		DWGS.	DRAWINGS
	FS	FLOOR SINK		EA	EACH
	FD	FLOOR DRAIN		EXIST.	EXISTING
	FCO	FLOOR CLEAN-OUT		(E)	EXISTING
	WCO	WALL CLEAN-OUT		FT	FEET OR FOOT
	GCO	GRADE CLEAN-OUT		FDC	FIRE DEPARTMENT CONNECTION
	DN	DOWN OR DROP		F	FIRE RISER
	UP	RISE OR RISER		F.L.R.	FLOOR
	HB	HOSE BIBB		G.P.F.	GALLONS PER FLUSH
	V	VALVE ON RISE OR DROP		G.P.H.	GALLONS PER HOUR
	U	UNION		G.P.M.	GALLONS PER MINUTE
	RV	TEMPERATURE & PRESSURE RELIEF VALVE		IE	INVERT ELEVATION
	F	FIRE SPRINKLER PIPING		KG	KILOGRAMS
	CD	CONDENSATE DRAIN PIPING		Kq	KILOPASCALS
	FDC	FIRE DEPARTMENT CONNECTION		L.P.F.	LITERS PER FLUSH
	CP	CIRCULATING PUMP		L/S	LITERS PER SECOND
	CV	CHECK VALVE		MSA	MEDIUM PRESSURE GAS METER
	TP	TRAP PRIMER		mm	MILLIMETER
	WHA	WATER HAMMER ARRESTOR		NTS	NOT TO SCALE
	REG	GAS REGULATOR W/SHUT-OFF VALVE		ORD	OVERFLOW ROOF DRAIN
				LB	POUNDS
				PSI	POUNDS PER SQUARE INCH
				RD	ROOF DRAIN
				SF	SET ASSEMBLY
				T.D.H.	TOTAL DEVELOPED HEAD
				V.T.R.	VENT THROUGH ROOF
				W.C.	WATER COLUMN
				WHA	WATER HAMMER ARRESTOR

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	ROUGH-IN				
		HW	OW	W	TRAP	V
	SINK	1/2"	1/2"	2"	1 1/2"	1 1/2"
	FLOOR DRAIN	--	--	2"	2"	1 1/2"
	FLOOR SINK	--	--	4"	2"	1 1/2"
	TRAP PRIMER	--	1/2"	--	--	--
	HOSE BIBB	--	3/4"	--	--	--
	EMERGENCY EYEWASH SHOWER	1 1/2"	1 1/2"	--	--	--
	COMPRESSED AIR OUTLET	--	--	--	--	--
	MIXING VALVE	1 1/2"	1 1/2"	--	--	--

PLUMBING EQUIPMENT SCHEDULE									
SYMBOL	TYPE	ELECTRICAL DATA				CAPACITY		STORAGE VOLUME (GALLON)	WEIGHT (LBS)
		POWER (HP)	VOLTS (V)	PHASE (PH)	HERTZ (HZ)	INPUT (MBH)	OUTPUT (MBH)		
	ELECTRIC WATER HEATER	54 KW	480	3	--	--	--	100	--
	AIR COMPRESSOR	15	480	3	60	--	--	--	1,735
	SAND OIL INTERCEPTOR	--	--	--	--	--	--	320	6,800
	GAS PRESSURE REGULATOR	--	--	--	--	--	--	--	--

GENERAL NOTES	
1.	THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK, PIPING AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL INSTALL, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
2.	COMPLY WITH CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPL), AND NATIONAL FIRE PROTECTION AGENCY (NFPA) AND GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
3.	PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL & PLUMBING EQUIPMENT AND COMPONENTS AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
4.	HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
5.	NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
6.	LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AT INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
7.	COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
8.	HOSE BIBBS SHALL BE PROTECTED BY AN APPROVED NON-REMOVABLE TYPE BACKFLOW PROTECTION DEVICE. HOSE BIBBS SHALL BE MOUNTED AT +18" ABOVE FLOOR UNLESS OTHERWISE NOTED.
9.	PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
10.	COORDINATE AND VERIFY SIZES, LOCATIONS, DEPTHS AND PRESSURIZED PIPING PRESSURES OF ALL BUILDING UTILITIES WITH CIVIL.
11.	COORDINATE AND SCHEDULE TIMING FOR UTILITY SERVICE CONNECTION.
12.	ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
13.	ALL LINES RUNNING BELOW GRADE BEAMS OR PENETRATING, SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION.
14.	ALL VENTS THRU ROOF SHALL BE MINIMUM OF 18 INCHES VERTICAL AND FIFTEEN FEET HORIZONTAL AWAY FROM ALL AIR CONDITIONING FRESH AIR INTAKES AND PROVIDED WITH VANDAL PROOF HOODS.
15.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
16.	COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.
17.	COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
18.	INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE, MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
19.	ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
20.	PROVIDE VACUUM BREAKERS AT HOSE BIBBS.
21.	FAUCETS TO BE 1.8 GPM MAXIMUM.
22.	WATER HEATER IS TO BE USED ON CALIFORNIA ENERGY COMMISSION (CEC) LIST.
23.	PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE (SECTION 608.3 CPC).
24.	CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
25.	COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
26.	COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
27.	UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
28.	PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURAL ENGINEER FROM VIBRATION ISOLATIONS MANUFACTURER.
29.	FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.
30.	THE CONTRACTOR SHALL SELECT ALL CIRCUIT SETTERS/BALANCING VALVES FOR ACTUAL FLOW THROUGH THE PIPE AND THE PROPER PRESSURE DROP TO ENSURE PROPER OPERATION AND NOT BASED ON PIPE SIZES.
31.	THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AA AND CONNECTION LEVEL 1 FOR THE PROJECT AND CONDITIONS.

HMC Architects

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KEYNOTES

#	KEYNOTES
1	PROGRESS SET: 3.29.18

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Consultant Seal	Agency Approval	FILE NO: 37-CI
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA 5841	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	APPL. 04-115420
	ACS _____ FLS _____ SSS _____	DATE _____

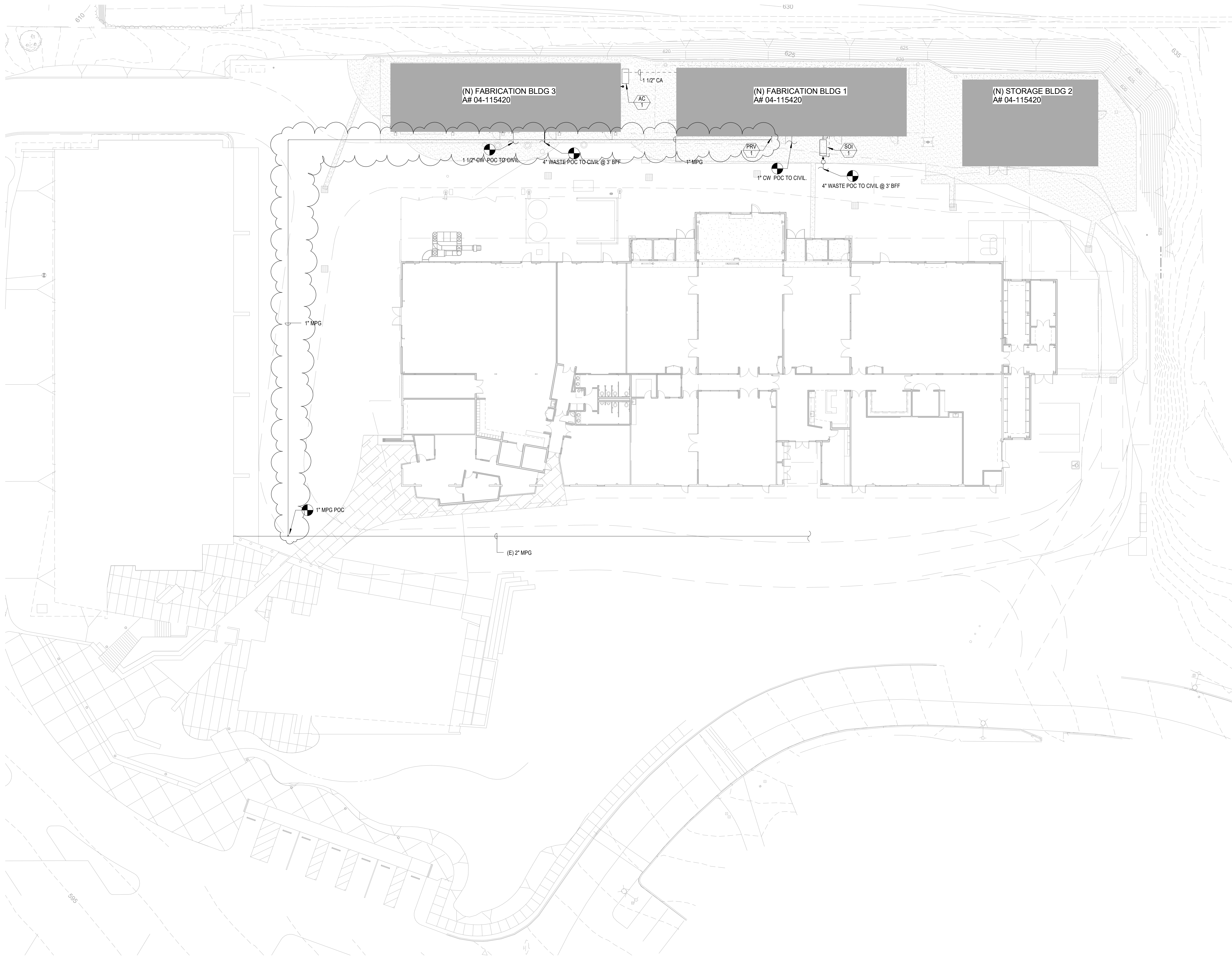
Project Title	PALOMAR COLLEGE NEW STORAGE BUILDINGS
	1140 W. MISSION RD., SAN MARCOS, CA 92069 (760) 744-1150

No.	Description	Date
1	ISA BACKCHECK	10/18/2017
2	ADDENDUM 2	06/08/2018
3	PRE-BID RFI	10/03/2018

Drawing Title	PLUMBING GENERAL NOTES, LEGEND, AND SCHEDULES
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Architect's Seal	Designer	Project No.	3443001-302
LICENSED ARCHITECT STATE OF CALIFORNIA NO. C-19980	Author	Scale:	NO SCALE
	Checker	Drawing No.	P0.1
	Date:	10/18/17	

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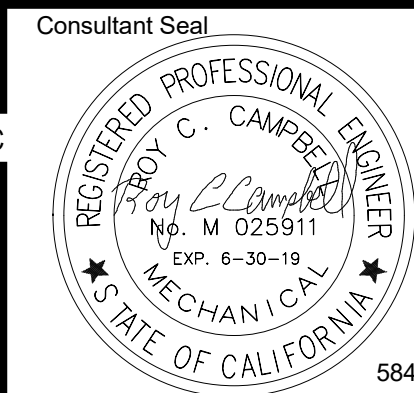
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1 PROGRESS SET: 3.29.18



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Key Plan



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APPL. 04-115420
ACS FLS SSS
DATE

Project Title



PALOMAR COLLEGE
NEW STORAGE BUILDINGS
1140 W. MISSION RD.,
SAN MARCOS, CA 92069
(760) 744-1150

No.	Description	Date
1	DSA BACKCHECK	10/18/2017
2	ADDENDUM 2	06/08/2018
3	PRE-BID RFI	10/03/2018

Drawing Title:
PLUMBING OVERALL SITE PLAN

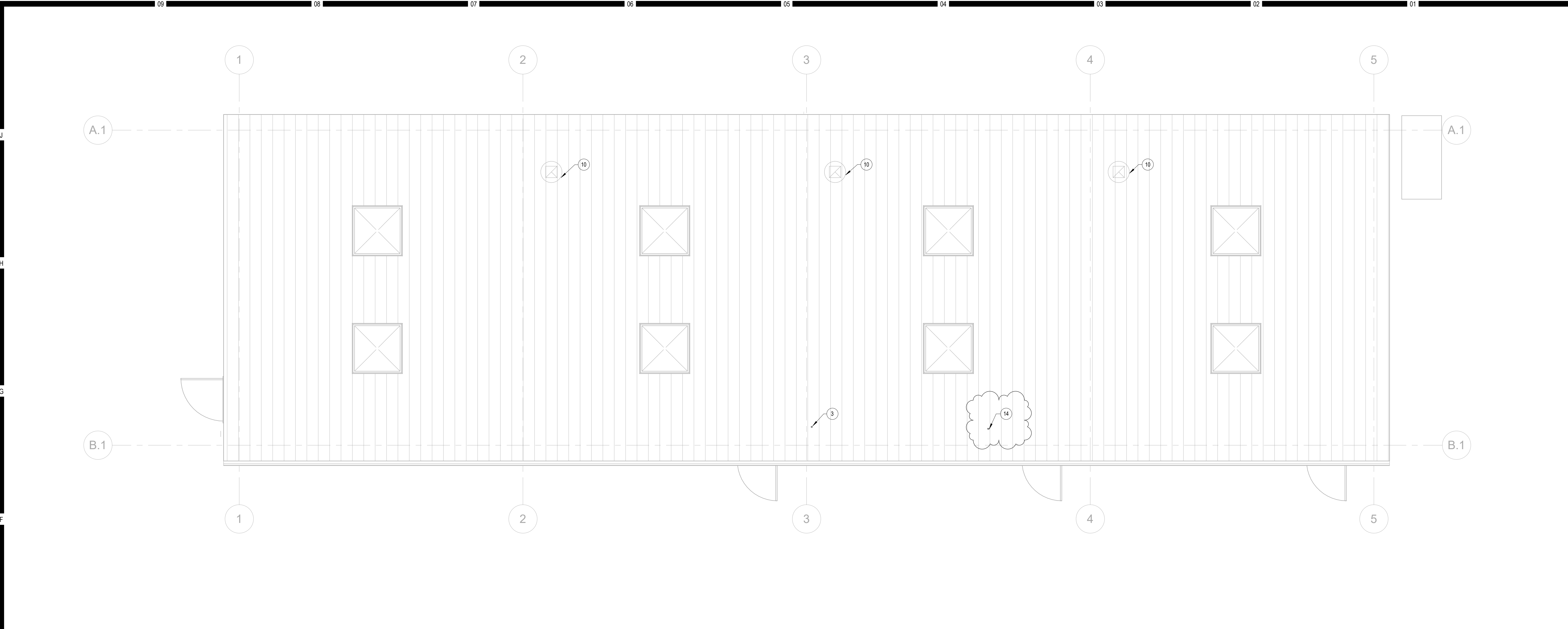


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	Drawn By Author	Scale: 1" = 20'-0"
	QA/QC Checker	Drawing No. P1.1
	Date: 10/18/17	

PLUMBING OVERALL SITE PLAN

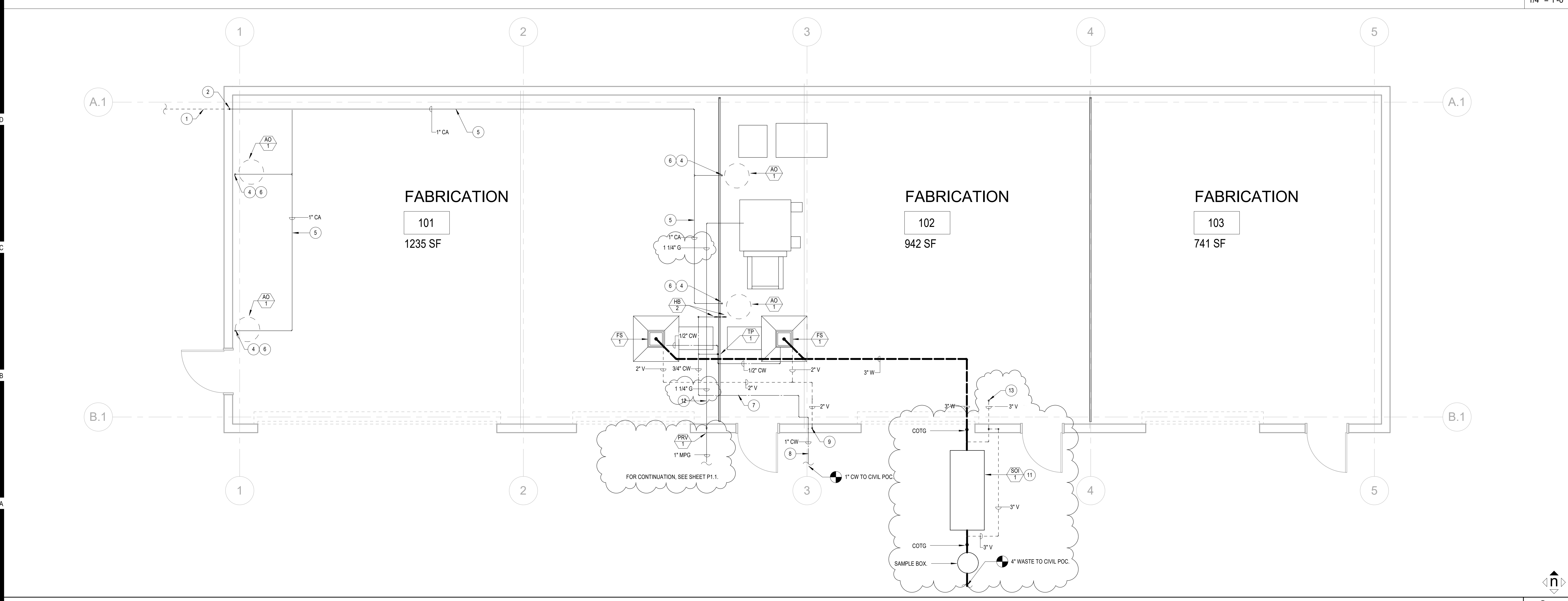
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PLUMBING FABRICATION BUILDING 1 - ROOF PLAN

1
1/4" = 1'-0"



PLUMBING FABRICATION BUILDING 1 - FLOOR PLAN

2
1/4" = 1'-0"

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KEYNOTES

- 1 1" COMPRESSED AIR BELOW GRADE.
- 2 1" COMPRESSED AIR UP.
- 3 2" VTR.
- 4 ROUTE 1" COMPRESSED AIR TO COMPRESSED AIR OUTLET.
- 5 FOR TYPICAL PIPE HANGER DETAIL, SEE 2/P5.1.
- 6 FOR AIR COMPRESSOR OUTLET DETAIL, SEE 3/P5.1.
- 7 3/4" CW BELOW GRADE.
- 8 1" CW BELOW GRADE POC TO CIVIL. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 9 2" VENT UP.
- 10 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY.
- 11 FOR SAND-OIL INTERCEPTOR DETAIL, SEE 8/P5.2.
- 12 FOR GAS PIPING ABOVE GROUND PROVIDE SEISMIC ANCHORAGE PER ANCHORAGE NOTES ON PG. 1.
- 13 3" VENT UP.
- 14 3" VTR.

NOTES

- 1- FOR AIR COMPRESSOR ANCHORAGE DETAIL, REFER TO DTL.

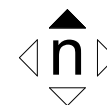
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A10.03

12
S12.2



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Project Title



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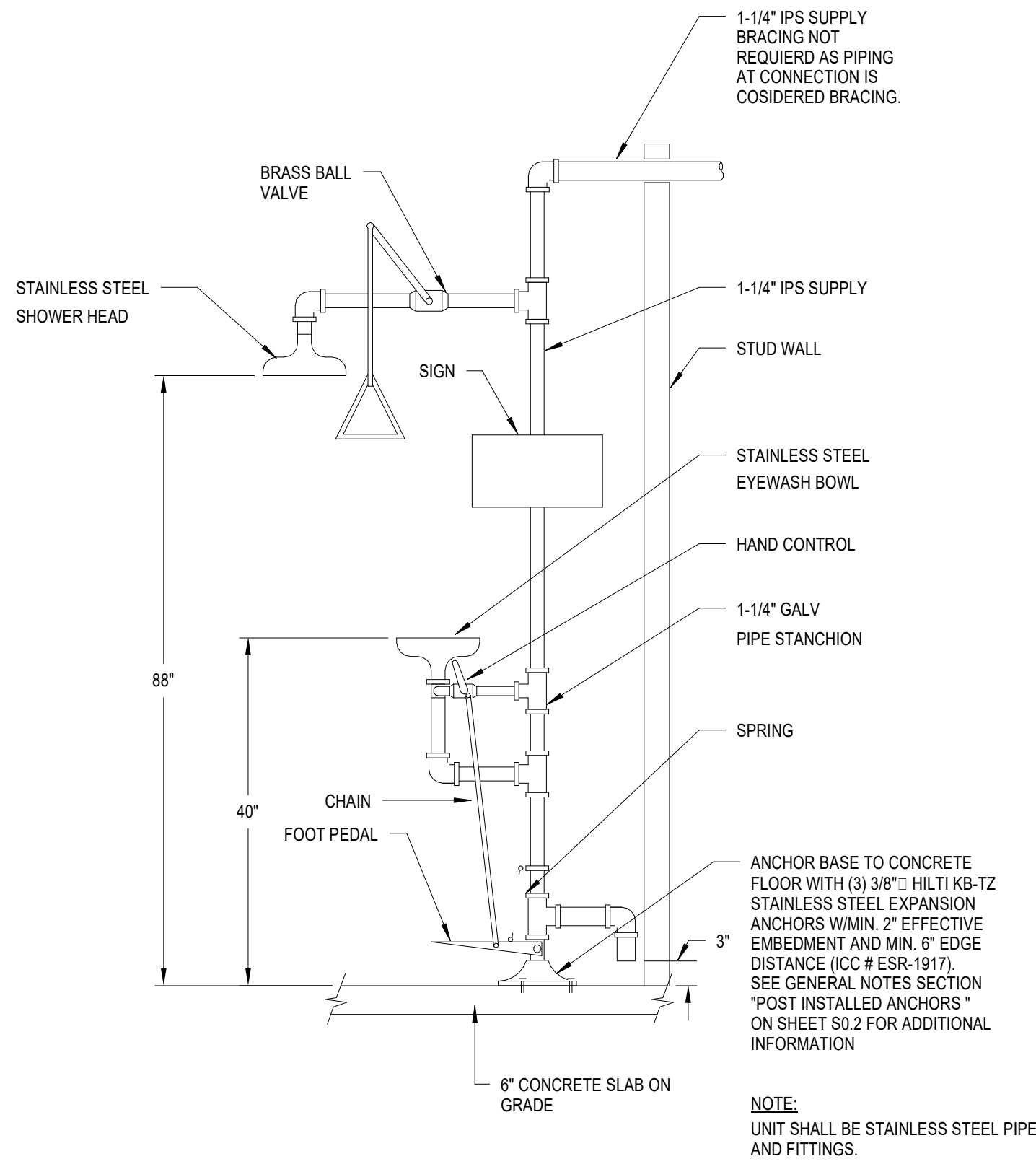
No.	Description	Date
1	ISA BACKCHECK	10/18/2017
2	ADDENDUM 2	06/08/2018
3	PRE-BID RFI	10/03/2018

Drawing Title:
**PLUMBING FABRICATION BUILDING 1
FLOOR AND ROOF PLANS**

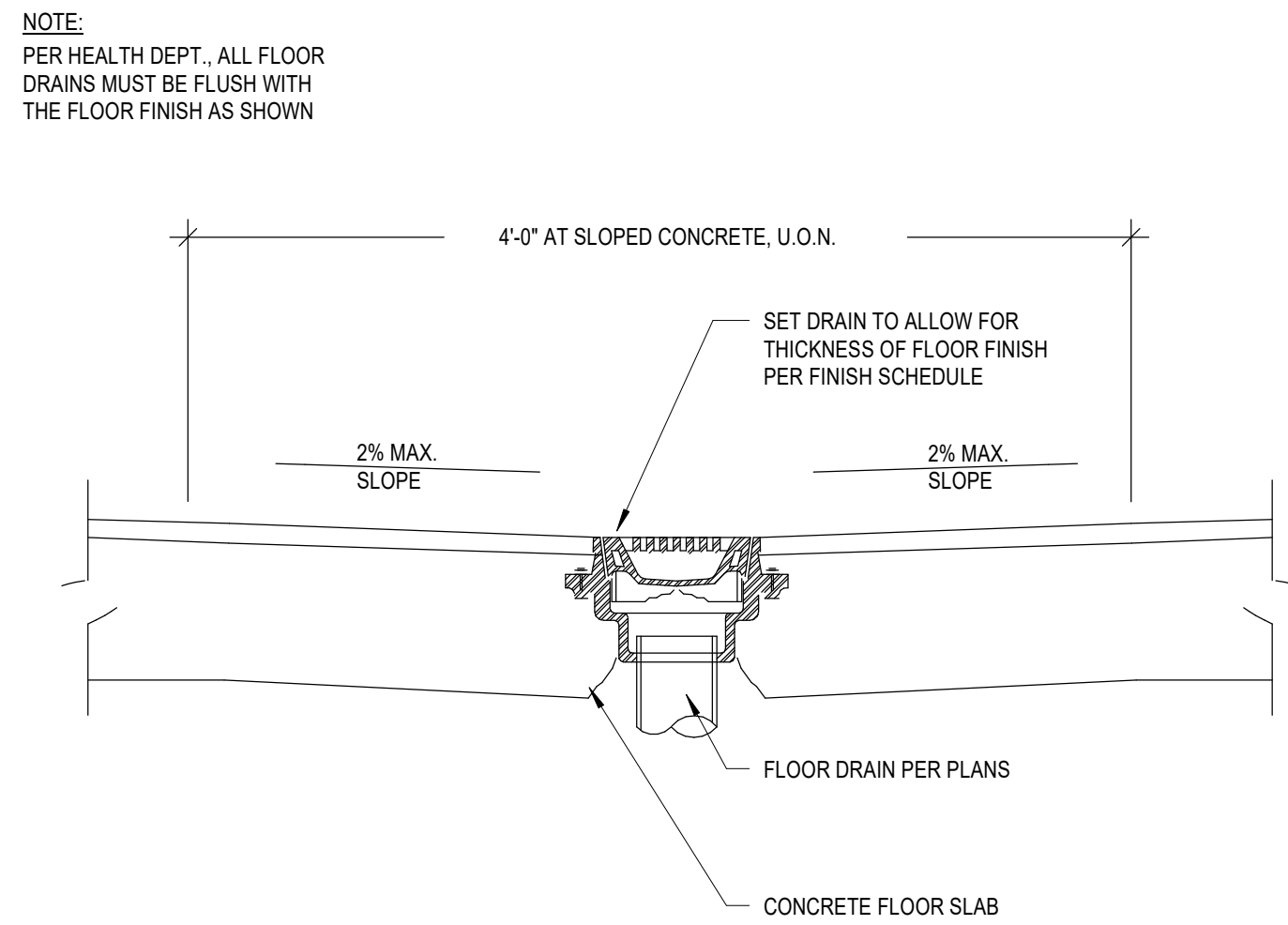


Architect's Seal
Designed by Designer
Project No. 3443001-302
Drawn by Author
Scale: 1/4" = 1'-0"
QA/QC by Checker
Drawing No. **P2.1**
Date: 10/18/17

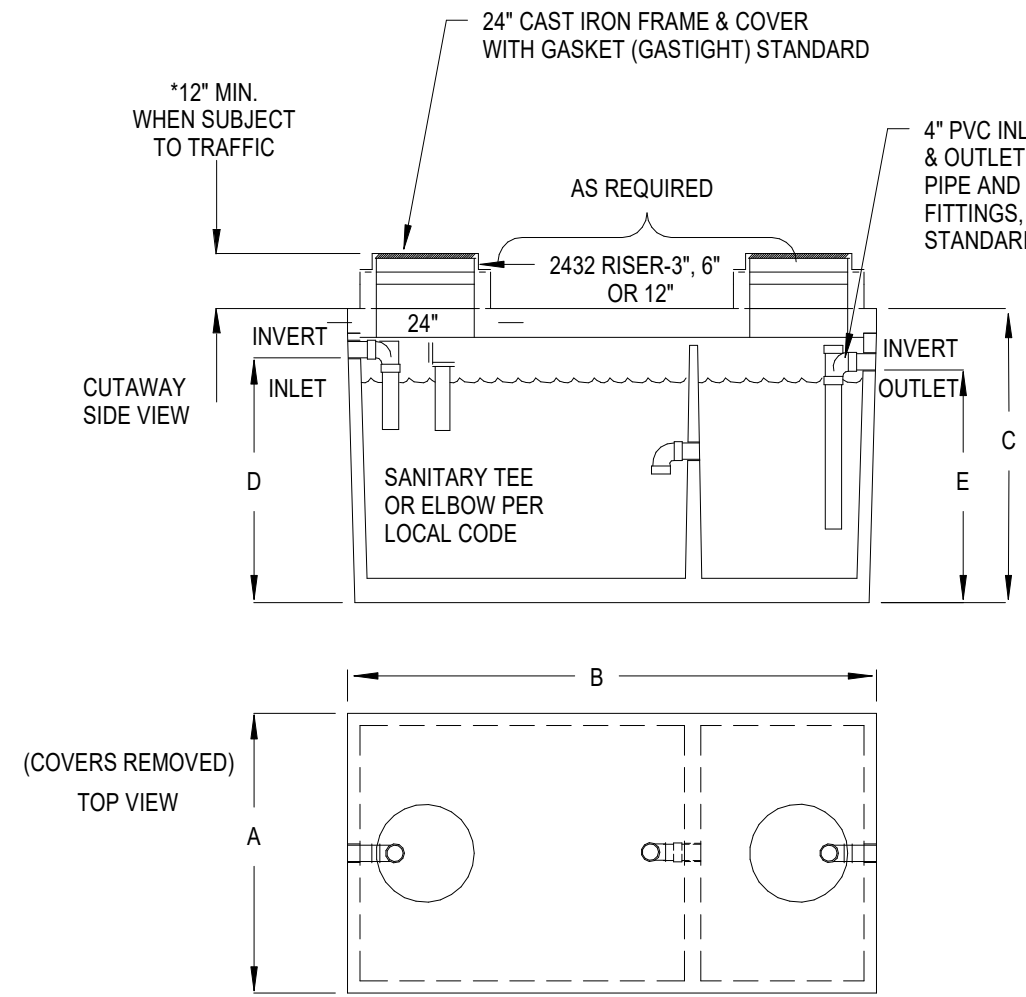
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7 EMERGENCY SHOWER/EYEWASH STATION DETAIL
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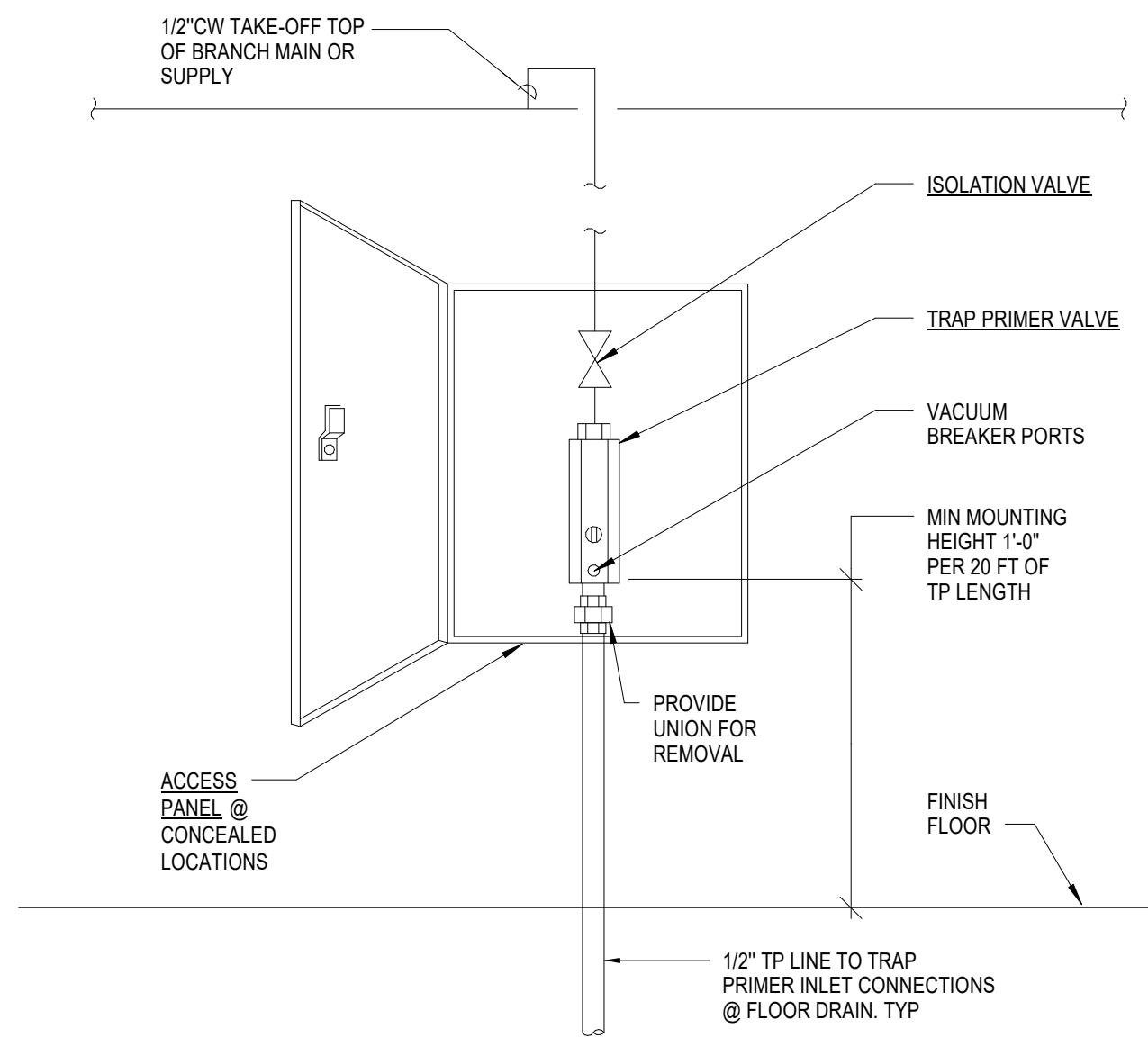


5 FLOOR DRAIN/SINK DETAIL
NO SCALE



MODEL NUMBER	LIQUID CAPACITY GALLONS	WIDTH 'A'	OVERALL LENGTH 'B'	TANK HEIGHT 'C'	INLET 'D'	OUTLET 'E'	MAXIMUM EXCAVATION WIDTH	MAXIMUM EXCAVATION LENGTH	DEPTH OF BURY	DEPTH OF BURY
KJP32080	320	3'-0"	7'-0"	4'-8"	3'-7"	3'-4"	4'-0"	8'-0"	6' MAX.	6,600

8 SAND-OIL INTERCEPTOR
NO SCALE



6 TRAP PRIMER DETAIL
NO SCALE

KEYNOTES

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NOTES



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No.	Description	Date
1	ADDENDUM 2	06/08/2018
2	PRE-BID RFI	10/03/2018

Drawing Title:

PLUMBING DETAILS

Architect's Seal



Designer Project No. 3443001-302

Drawn: Author Scale: NO SCALE

QA/QC Checker Drawing No.

Date: 10/18/17

P5.2