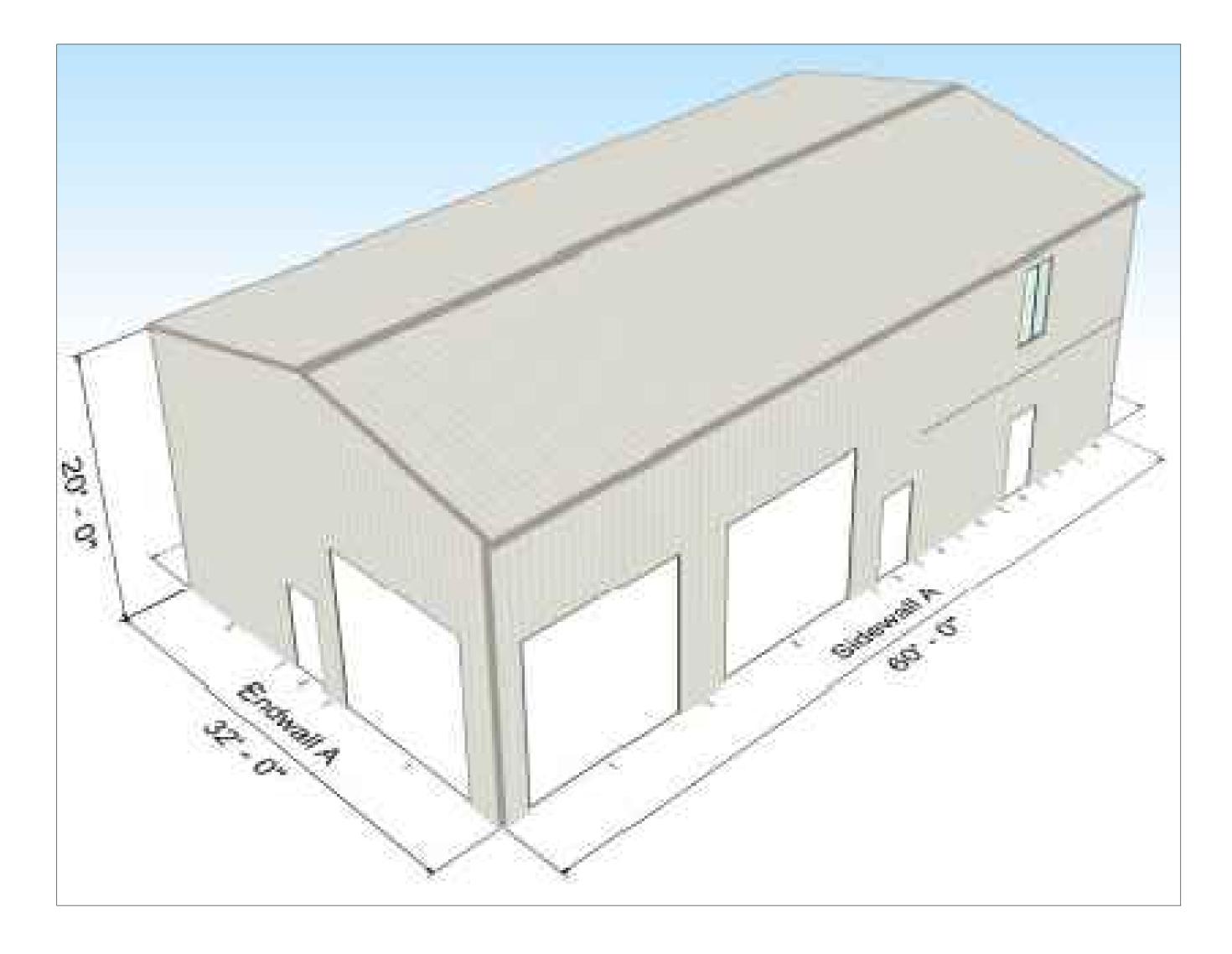
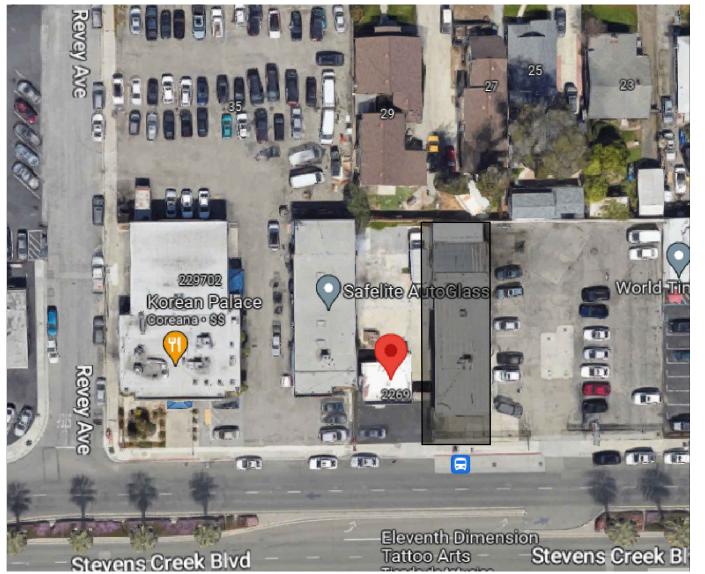
STEVENS CREEK

2265 STEVENS CREEK BLVD SAN JOSE, CA. 95126









GENERAL NOTE

- CONTRACTOR SHALL VISIT THE SITE AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXIST AND VERIFY LOCATIONS, CONDITIONS AND DETAILS REQUIRED TO COMPLETE THE WORK.
- 2. DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS.
- 3. THE CONTRACTOR SHALL USE MATERIALS THAT ARE COMPATIBLE TO EXISTING MATERIALS AND COMPLY WITH APPLICABLE REGULATIONS. BEFORE PROCEEDING, EXAMINE THE SURFACES TO BE MODIFIED AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. IF UNSAFE OR OTHERWISE UNSATISFACTORY CONDITIONS ARE ENCOUNTERED, TAKE CORRECTIVE ACTION BEFORE PROCEEDING WITH THE WORK. CUT USING SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. RESTORE FINISHES OF PATCHED AREAS AND, WHERE NECESSARY, EXTEND FINISH RESTORATION INTO ADJOINING SURFACES.
- 4. ALL MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER
- 5. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE AND SHALL VERIFY ALL MEASUREMENTS.
- 6. EXISTING OPENING FRAME SHALL REMAIN UNALTERED. ALL NEW WINDOWS OR DOORS SHALL FIT THE EXISTING ROUGH OPENING. PERFORM ALL WORK IN A WORKMANLIKE MANNER. CONTRACTOR TO REPLACE OR REPAIR ANY DAMAGE TO EXISTING AREAS TO REMAIN, AS DETERMINED BY THE OWNER.

SCOPE OF WORK

- 1. CONSTRUCT A NEW NON-CONDITION METAL BUILDING 33' x 60' FOR STORAGE
- 2. REMODEL EXISTING BUILDING WITH A NEW ROOF AND NEW ADA BATHROOM
- 3. NO NEW OR REPLACEMENT OF IMPERVIOUS AREA

APPLICABLE CODES
2022 EDITION OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
PART 1 - California Building Code Volumes 1 & 2
PART 2 - California Mechanical Code
PART 3 - California Plumbing Code
PART 4 - California Electrical Code
PART 5 - California Existing Buildings Code
PART 6 - California Fire Code
PART 7 - California Energy Code
PART 8 - California Residential Building Code
PART 9 - California Green Building Standards Code
PART 10 - California Historical Building Code
SANTA CLARA COUNTY MUNICIPAL CODE.

	OWNER
NAME	Daniel Ni
EMAIL	daniel.ni@gmail.com
PHONE	(925) 858-5095
	TEAM
ARCHITECTS-SF	FRANCISCO MATOS
DIRECTION	1390 Market Street Suite 1612 San Francisco, CA 94102
PHONE	(415) 519-4954
EMAIL	francisco@architects-sf.com
WEB	http://www.architect-sf.com

PRO	DJECT DATA			
ADDRESS	Stevens Creek Blvd San Jose, CA. 95126			
APN	274-41-68			
ZONING CLASSIFICATION	G			
OCCUPANCY CLASSIFICATION	(E)=B (P)=B + S1			
DEWLLING UNITS	0			
NUMBER OF BUILDINGS	(E) 1 (P) 2			
BUILDING HEIGHT	(E) 13'- 0" (P)STORAGE 22'- 6"			
STORY COUNT	1			
CONSTRUCTION TYPE	(E) ∇B (P) ∇B & (P) Ⅱ B			
SPRINKLER SYSTEM	(E) NONE (P) YES			
LOT AREA	5,593 SF			
LOT COVERAGE	1,980 SF			

GENERAL				
G-000	TITLE, COVER SHEET& SHEET INDEX			
ARCHITECTURE DRAWING				
A-100	EXISTING & PROPOSED SITE PLAN			
A-101	EXISTING & PROPOSED 1ST FLOOR PLAN			
A-102	PROPOSED MEZZANINE FLOOR PLAN			
A-103	EXISTING & PROPOSED EAST ELEVATION			
A-104	EXISTING & PROPOSED SOUTH ELEVATION			
A-105	EXISTING & PROPOSED EAST SECTION			
A-106	EGRESS & ACCESIBLE PATH TRAVEL			
A-107	DOOR SCHEDULE			
A-108	ELECTRICAL & MECHANICAL PLANS			
A-109	BATHROOM ADA DETAILS			
A-110	STAIR & GUARDRAILS DETAILS - SECTIONS			
A-111	PLUMBING PLAN			
T-24 (1)	T-24 (1-6)			
T-24 (1)	T-24 (7-10)			
T-24 (2)	T-24 (1-6)			
T-24 (2)	T-24 (7)			
P-1	PLUMBING GENERAL NOTES			
P-2	PLUMBING SCHEDULES			
P-3	PLUMBING DIAGRAMS			
P-4	PLUMBING DETAILS			
S-1.1	GENERAL NOTES			
S-1.2	SCHEDULE			
S-1.3	TYPICAL SECTION			
S-2.1	FOOTAGE LAYOUT PLAN			
S-2.2	ROOF FRAMING LAYOUT PLAN			
S-3.1	SECTION DETAILS			

94102 V

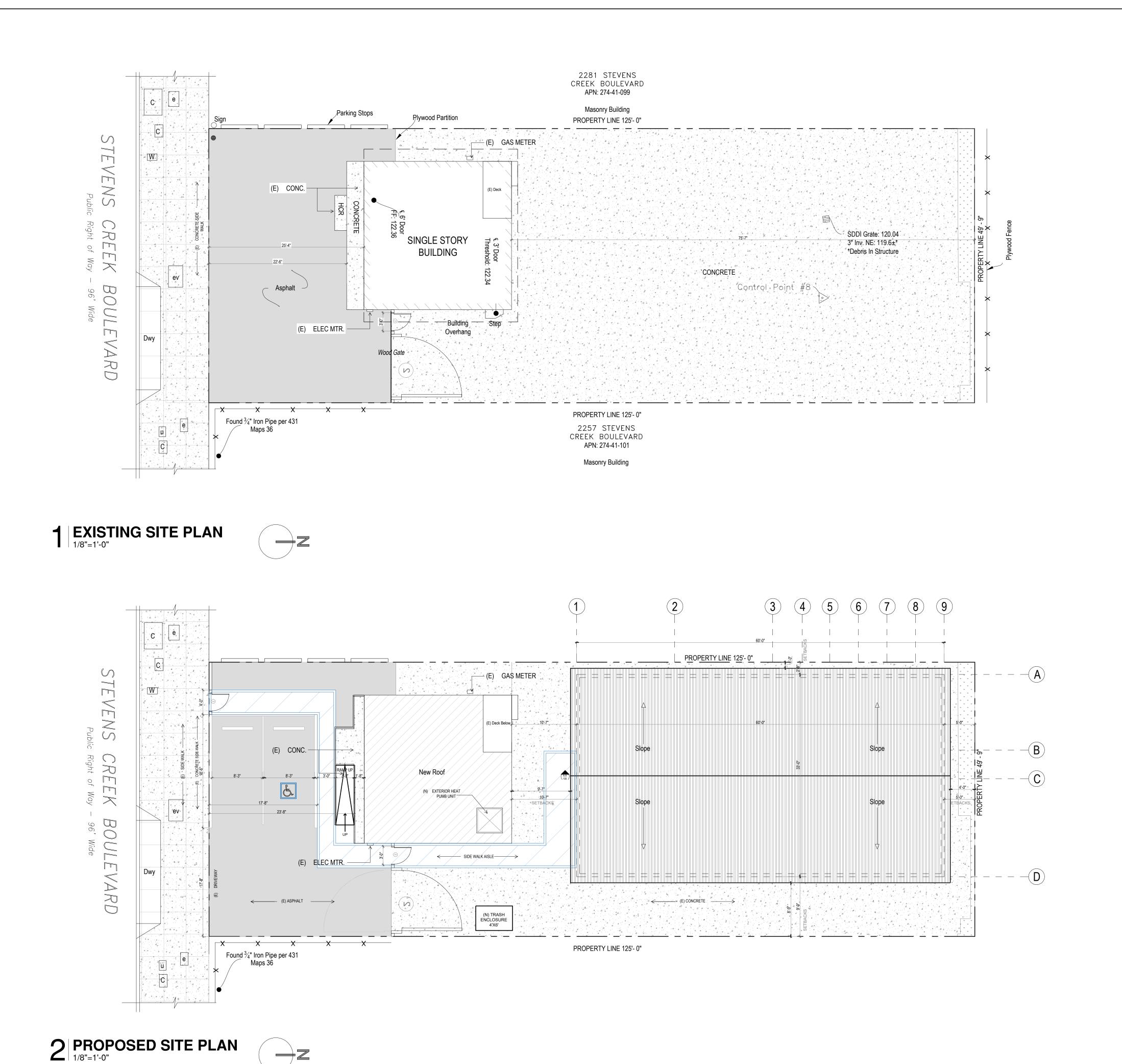
Revision Date



Stevens Creek Blvd San Jose, CA. 95126

ITLE, COVER SHEET&

G-000



Blvd 95126 Creek e, CA. 9

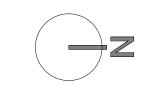
Revision Date

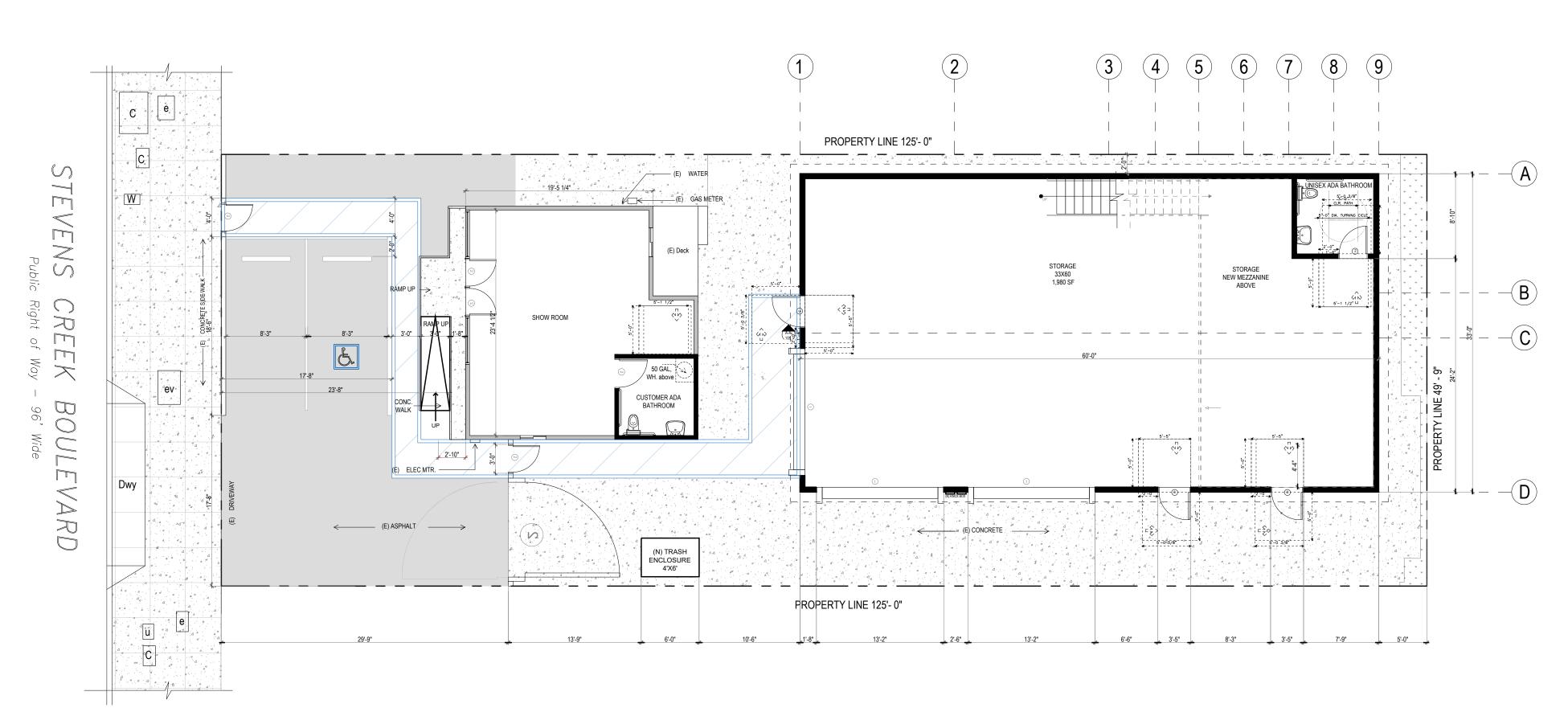
Stevens San Jose

PROPOSED 8 EXISTING SITE PLAN



3 EXISTING FIRST FLOOR PLAN





SED Stevens Creek
San Jose, CA. 9

LEYEND

New wall

Demolition wall

Existing wall

DRAWING TITLE:

EXISTING & PROPOSED

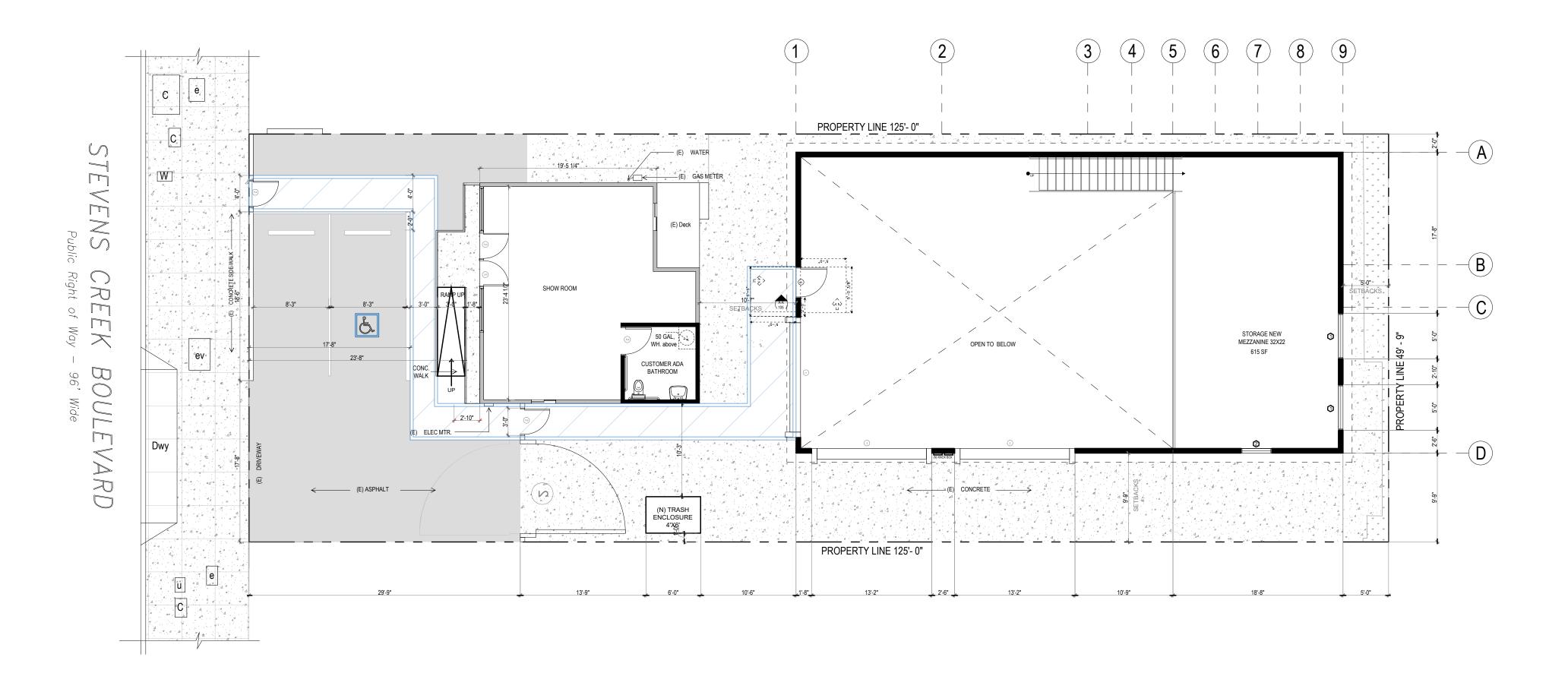
1ST FLOOR PLANS

Revision Date

Blvd 95126

A-10²

4 PROPOSED FIRST FLOOR PLAN
1/8"=1'-0"



5 PROPOSED MEZZANINE FLOOR PLAN

Blvd 95126 Creek e, CA. 9

Revision Date

Stevens San Jose

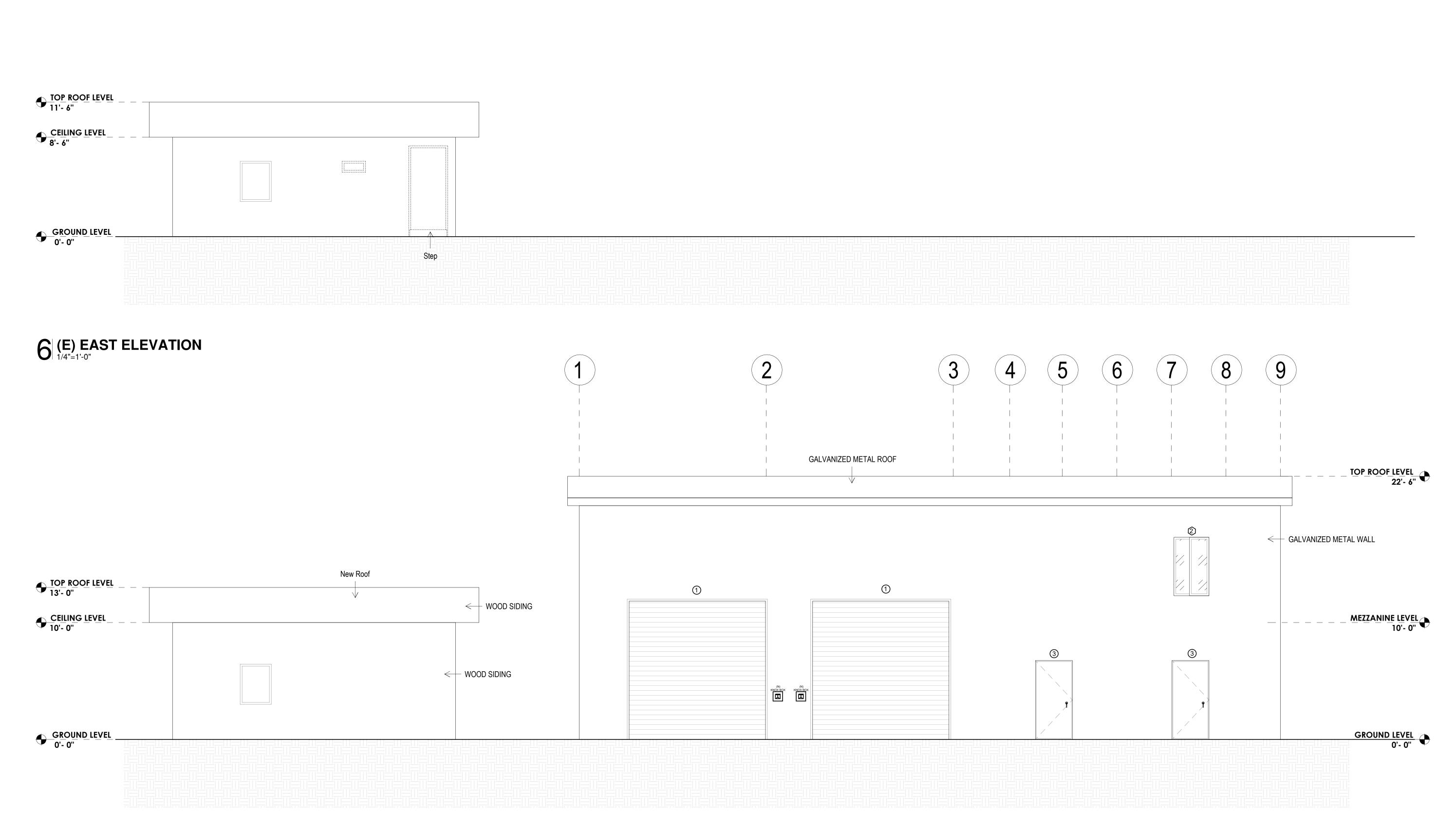
PROPOSED
MEZZANINE

LEYEND

New wall

Demolition wall

Existing wall



7 (P) EAST ELEVATION

Revision Date



Creek Blvd e, CA. 95126 Stevens San Jose

EXISTING & PROPOSED EAST ELEVATION

DRAWING TITLE:

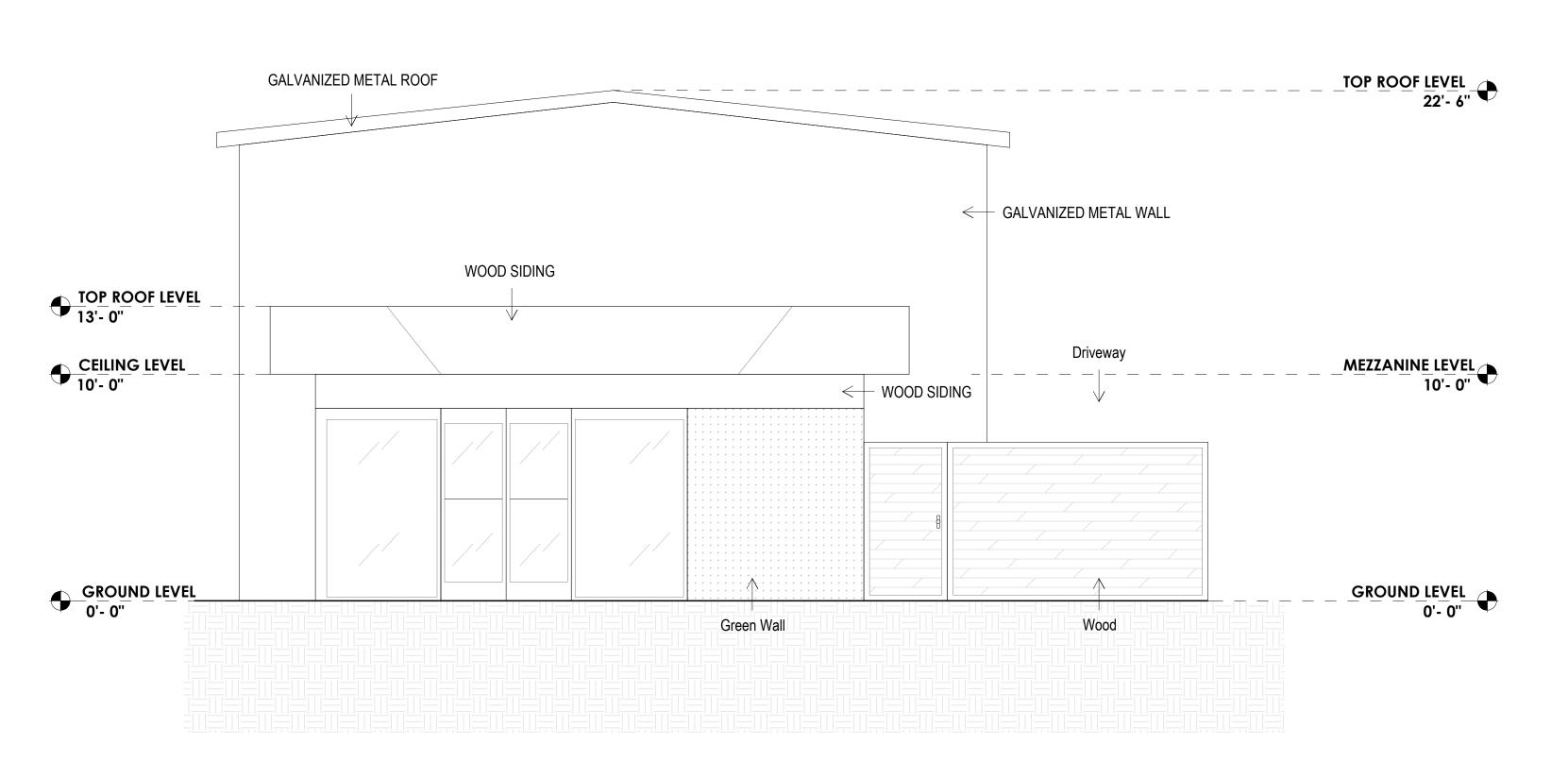
EXISTING & PROPOSED SOUTH ELEVATION

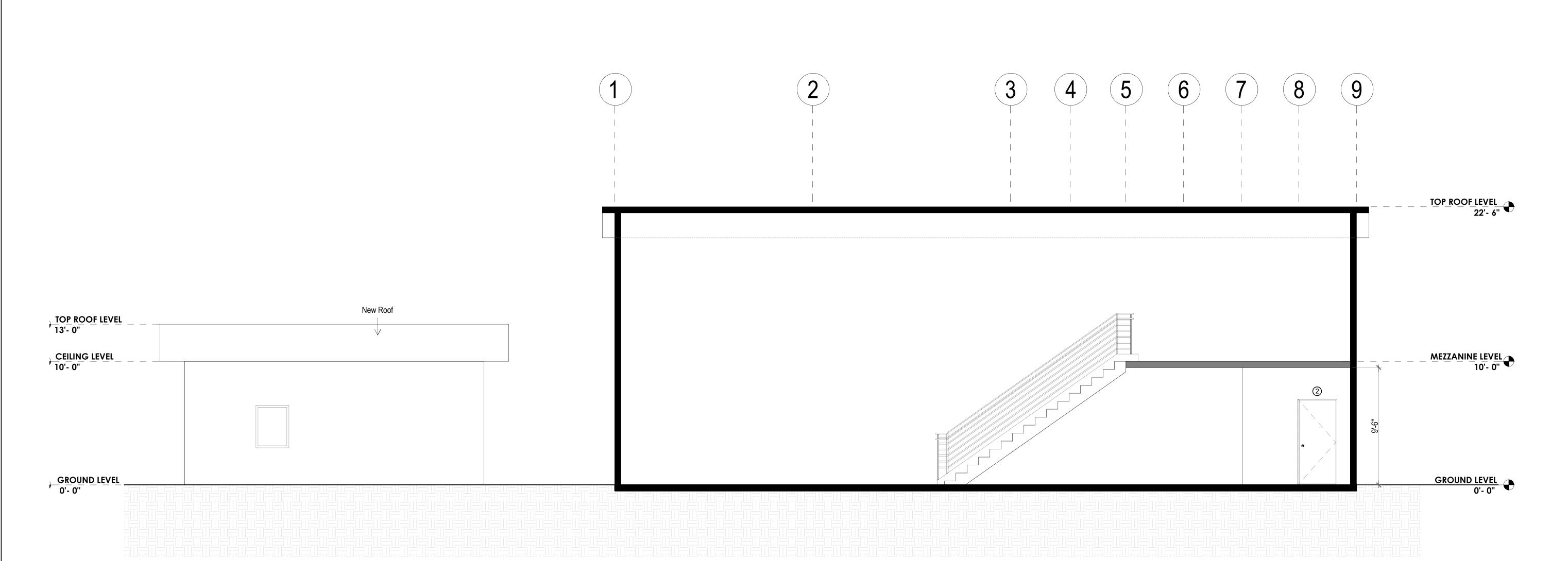
CEILING LEVEL Green Wall Wood

Driveway

8 (E) SOUTH ELEVATION

TOP ROOF LEVEL





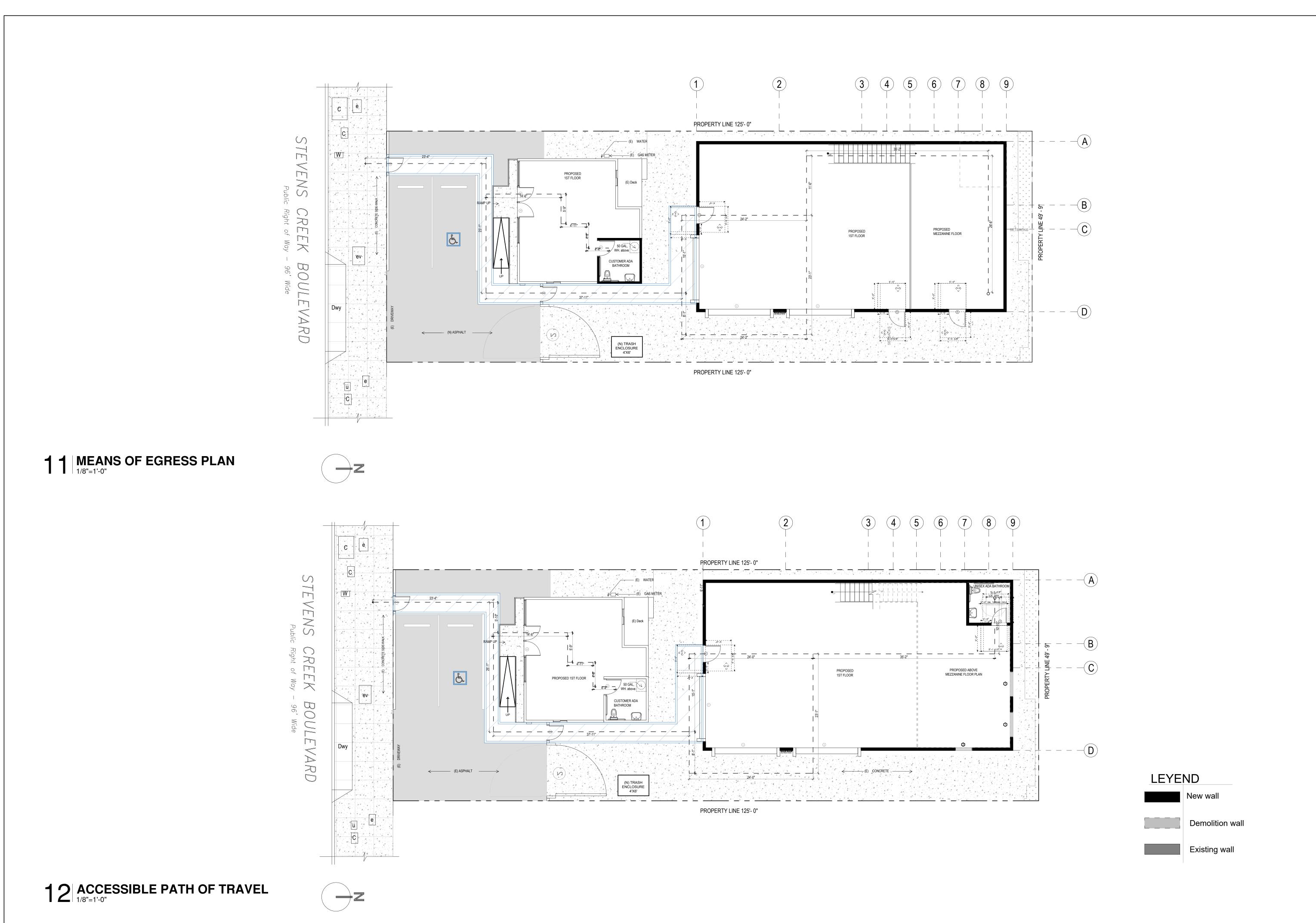
10 | SECTION A-A

Revision Date

Creek Blvd e, CA. 95126

Stevens San Jose

EXISTING & PROPOSED EAST SECTION



Blvd 95126 Creek e, CA. 9

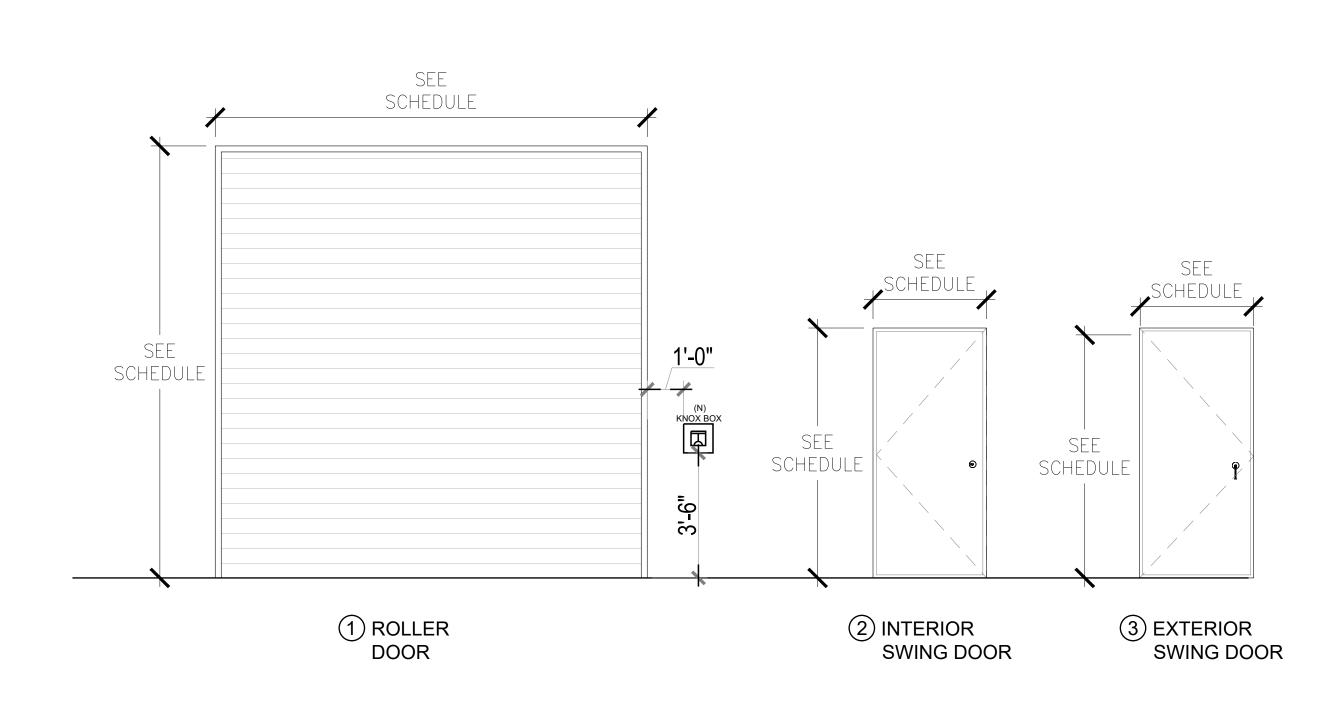
Revision Date

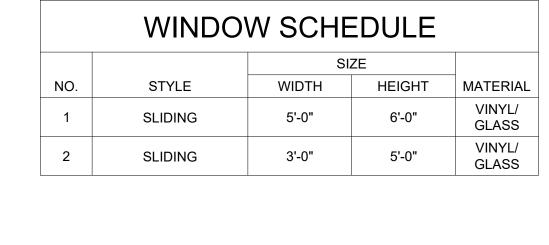
Stevens San Jose

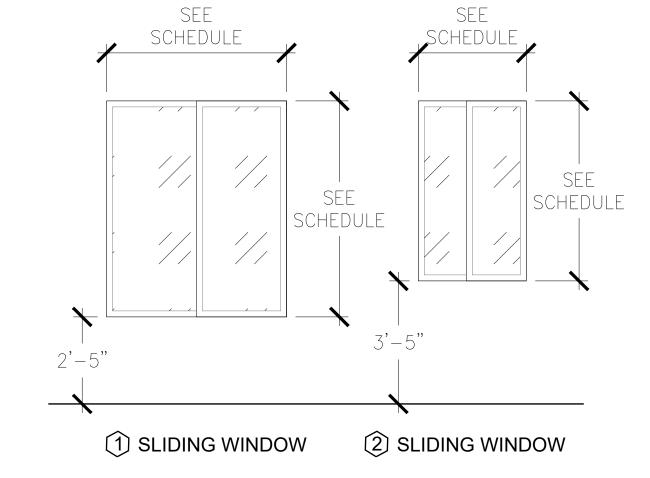
* ACCESIBLE \VEL EGRESS & PATH TRA

A-107

DOOR SCHEDULE SIZE MATERIAL STYLE WIDTH HEIGHT ROLLER DOOR WOOD 12'-0" POCKET DOOR 3'-2" WOOD WOOD 3'-2" **SWING DOOR** 6'-9"



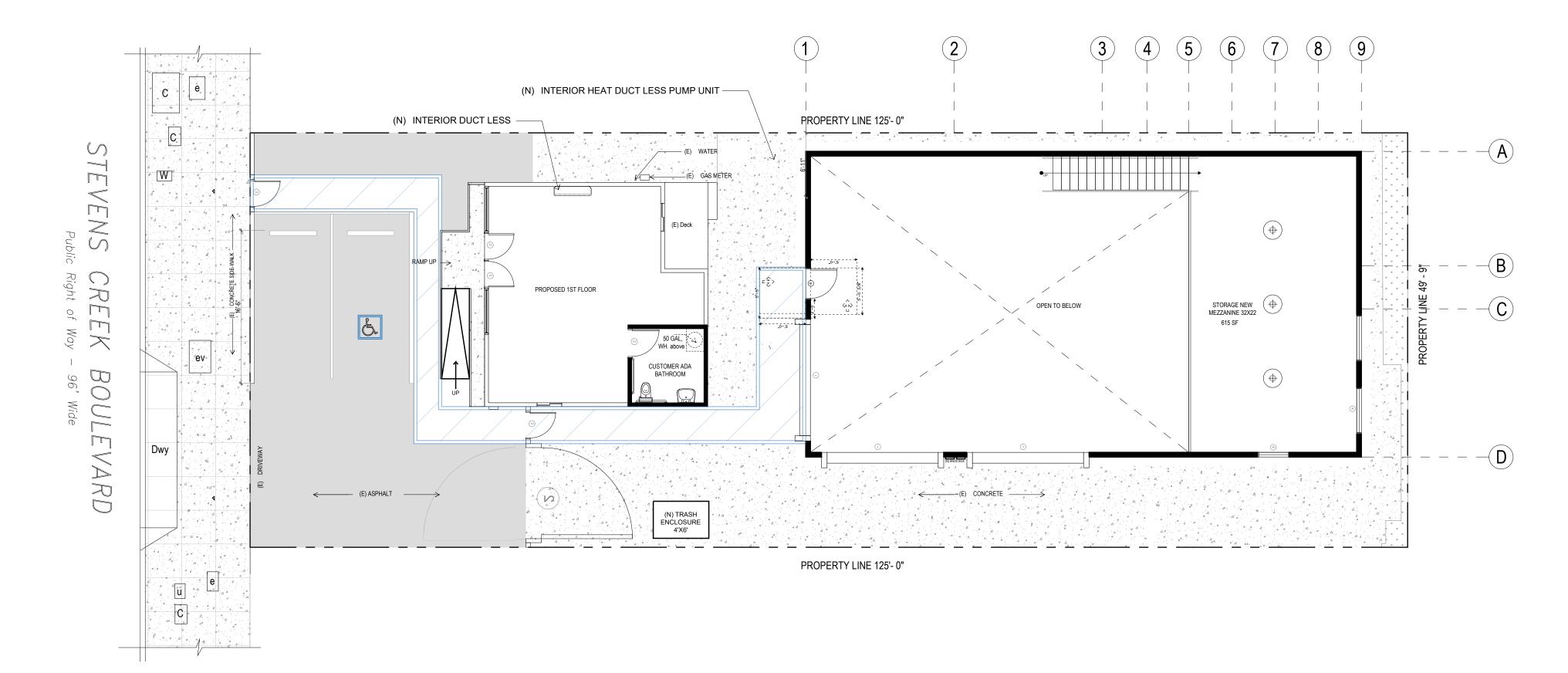




DOOR SCHEDULE 3/8"=1'-0"

WINDOW SCHEDULE
3/8"=1'-0"

16 | ELECTRICAL LIGHTNING PLAN- FLOOR PLAN



ELECTRICAL NOTE

- 1. Edison Company approval is required for electric meter location and/or relocation prior to meter installation.
- Field inspectors to review and approve underground services prior to concrete placement.
 Service equipment and subpanels to have a minimum 30 by 36 inch clear work space on a level
- surface with 78 inch clear height. (CEC 110.26(A))

 4. Subpanels are not allowed to be located in bathrooms or clothes closets. (CEC 240.24(D) & (E))
- 5. Circuits sharing a grounded conductor (neutral) with two ungrounded (hot) conductors must use a two pole circuit breaker or an identified handle tie. (CEC 200.4(B))
 6. Group non-cable circuits in panel (CEC 210.4(D))
- 7. Ground fault circuit interrupter (GFCI) protection shall be provided at all receptacle outlets in bathrooms, crawl spaces, garages, rooftops, outdoor outlets, and above kitchen countertops, or within 6 feet of a wet bar or laundry sink. (CEC 210.8)
- Combination type Arc Fault Circuit Interrupter (AFCI) circuit breakers are required for all 120V single phase 15A/20A branch circuits. Except where GFCI circuits are provided. (CEC 210.12(B))
 A minimum of 2 dedicated 20-ampere circuits are required for all receptacle outlets in the kitchen,
- dining room, breakfast area, pantry or similar areas. (CEC 210.11(C)(1) & 210.52(B))

 10. A minimum of one dedicated 20 ampere circuit is required for each bathroom and laundry room. (CEC 210.11(C)(2)&(3))
- 11. In Bathrooms, a GFCI protected receptacle outlet is required within 3 feet of the edge of each sink. (CEC 210.52(D))
- 12. Receptacle outlets are not allowed within or over a bathtub or shower stall. (CEC 406.9(C))

 13. General receptacle outlets must be located so that no point on any wall, fixed glass, or cabinets is
- over 6 feet from a receptacle outlet. (CEC 210.52(A)(1))

 14. Hallways 10 feet or longer must have at least one receptacle outlet. (CEC 210.52(H))
- 15. All receptacle outlets are required to be listed tamper resistant receptacles. (CEC 406.12)

MECHANICAL NOTE

1. Exhaust ducts shall terminate not less than 3 feet from a property line or opening into a building, 10 feet from a forced air inlet, and shall not discharge onto a public walkway. (CMC 502.2.1)

COVERAGE LEGEND

WALL LIGHT

RECESSED LIGHT

RECEPTACLE GFCI

RECEPTACLE

S SINGLE SWITCH

FAN

(E) PANEL CAPACITY 100 AMP

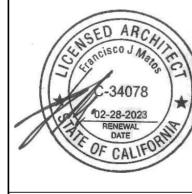
ELECTRICAL PANEL LOADS INFORMATION

PENDANT LIGHT

(E) BUILDING LIGHT
(E) BUILDING RECEPTACLES
(E) BUILDING HEAT PUMP

(N) BUILDING LIGHT
(N) BUILDING RECEPTACLES
(N) BUILDING HEAT PUMP

Revision Date



Stevens Creek Blvd San Jose, CA. 95126

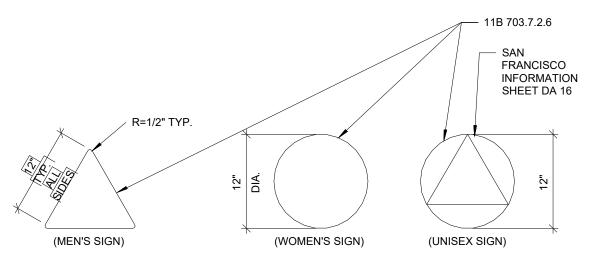
ELECTRICAL &
MECHANICAL PLANS

A-108

CBC 11B - TOILET 1/2" = 1' 0"

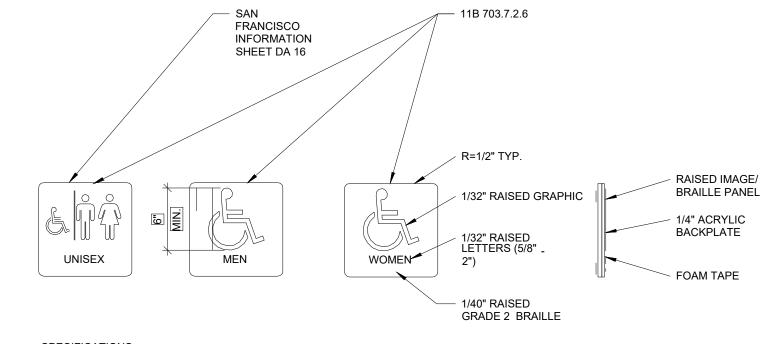
- 11B 703.7.2.6 DOOR SIGN ON WALL ADJACENT TO LATCH SIDE OF DOOR* _ 9" TO EDGE OF DOOR JAMB WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, PLACE SIGN ON NEAREST ADJACENT WALL

TYPICAL DOOR ELEVATION



SPECIFICATIONS: 1. 1/4" THICK MELAMINE PLASTIC LAMINATE NON GLARE FINISH WITH CHARACTERS & SYMBOLS THAT CONTRAST THEIR BACKGROUND. BACKGROUND COLOR SHALL CONTRAST DOOR COLOR. MOUNT WITH DOUBLE BACK FOAM TAPE.

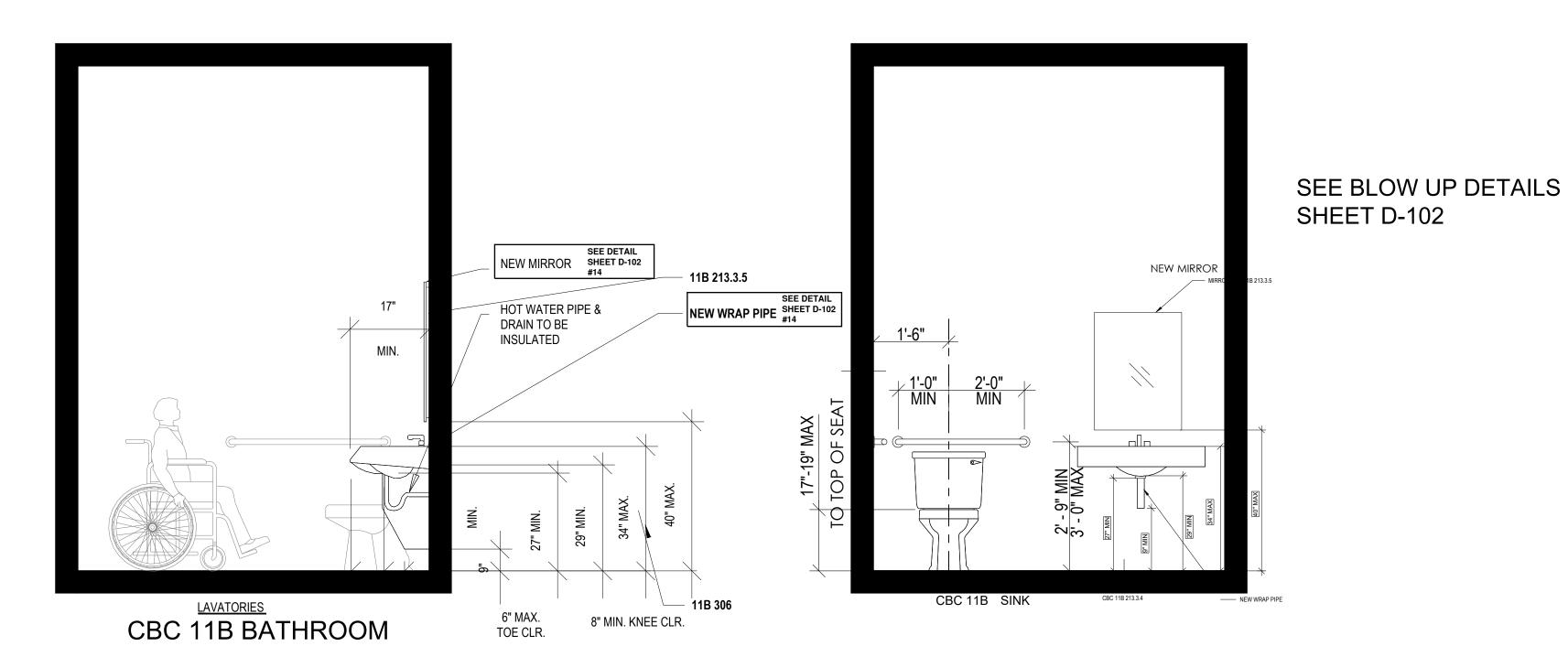
2. NO TEXT OR BRAILLE ON SIGNS.

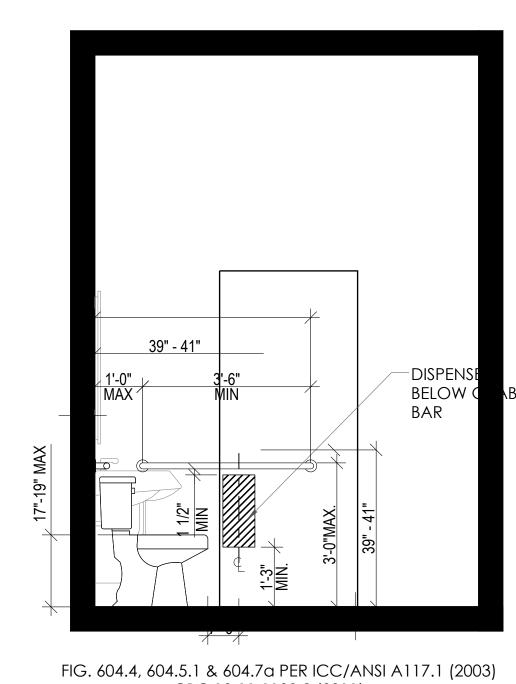


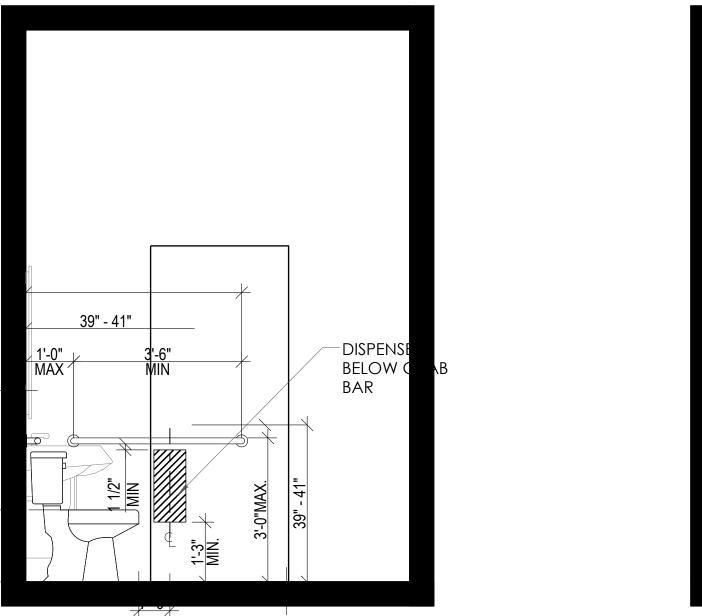
SQUARE SHAPE SIGNAGE, NON EGLARE FINISH WITH CHARACTERS & SYMBOLS THAT CONTRAST THEIR BACKGROUND. BACKGROUND COLOR SHALL CONTRAST DOOR COLOR. MOUNT WITH DOUBLE BACK FOAM TAPE.

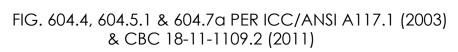
18 EXISTING & PROPOSED PLAN BATHROOM (ADA CODES) (ADA CODES)

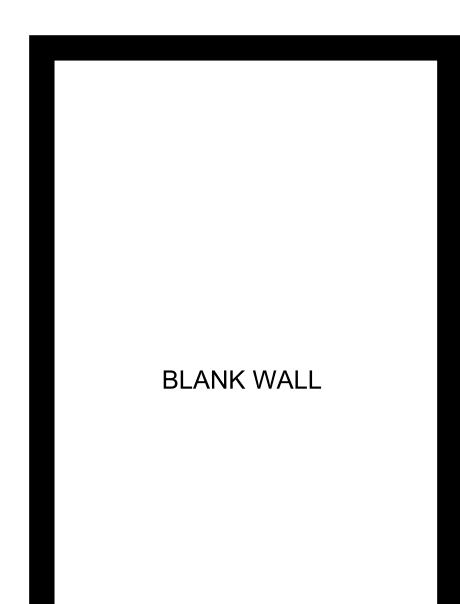
19 SYMBOLS
SCALE: 3/4" = 1'-0" (ADA CODES)











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







ADA

BATHROOM

Revision Date

Blvd 95126

Creek e, CA. 9

Stevens San Jose

PROJECT:



Revision Date

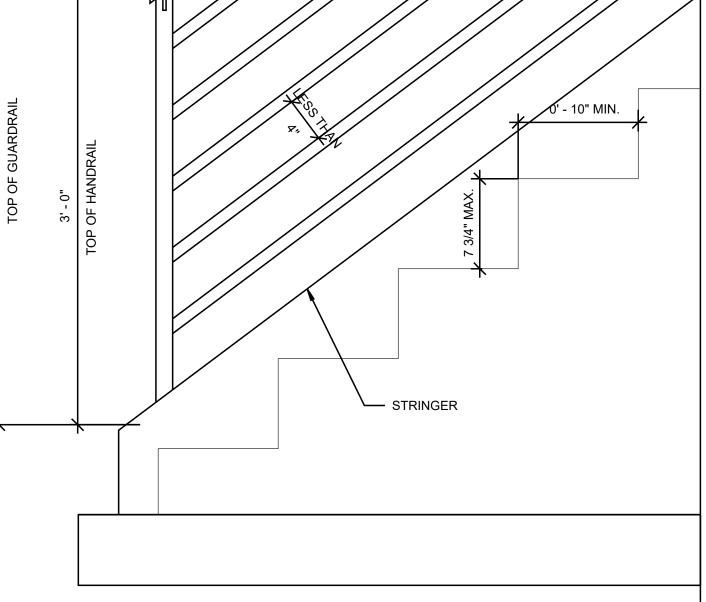
A-110

Blvd 95126 Creek e, CA. 9

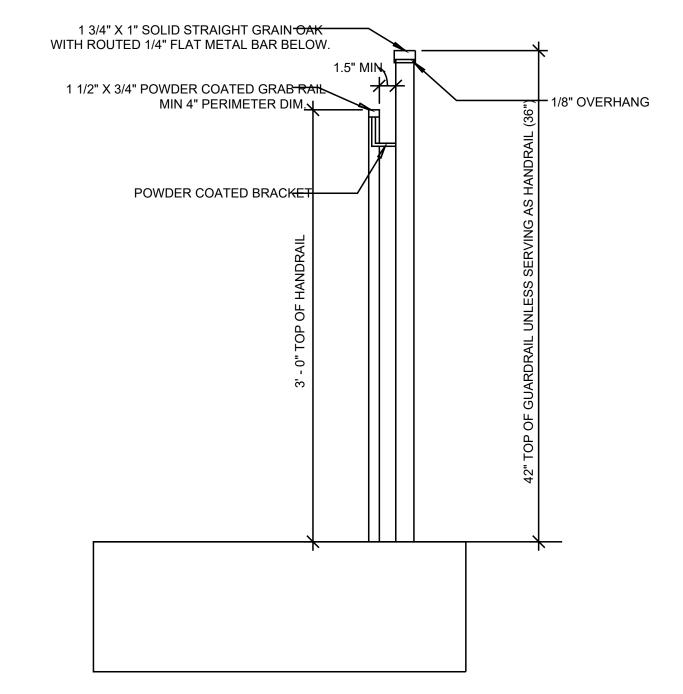
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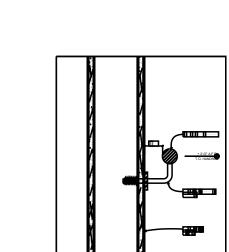
STAIR & ODETAILS



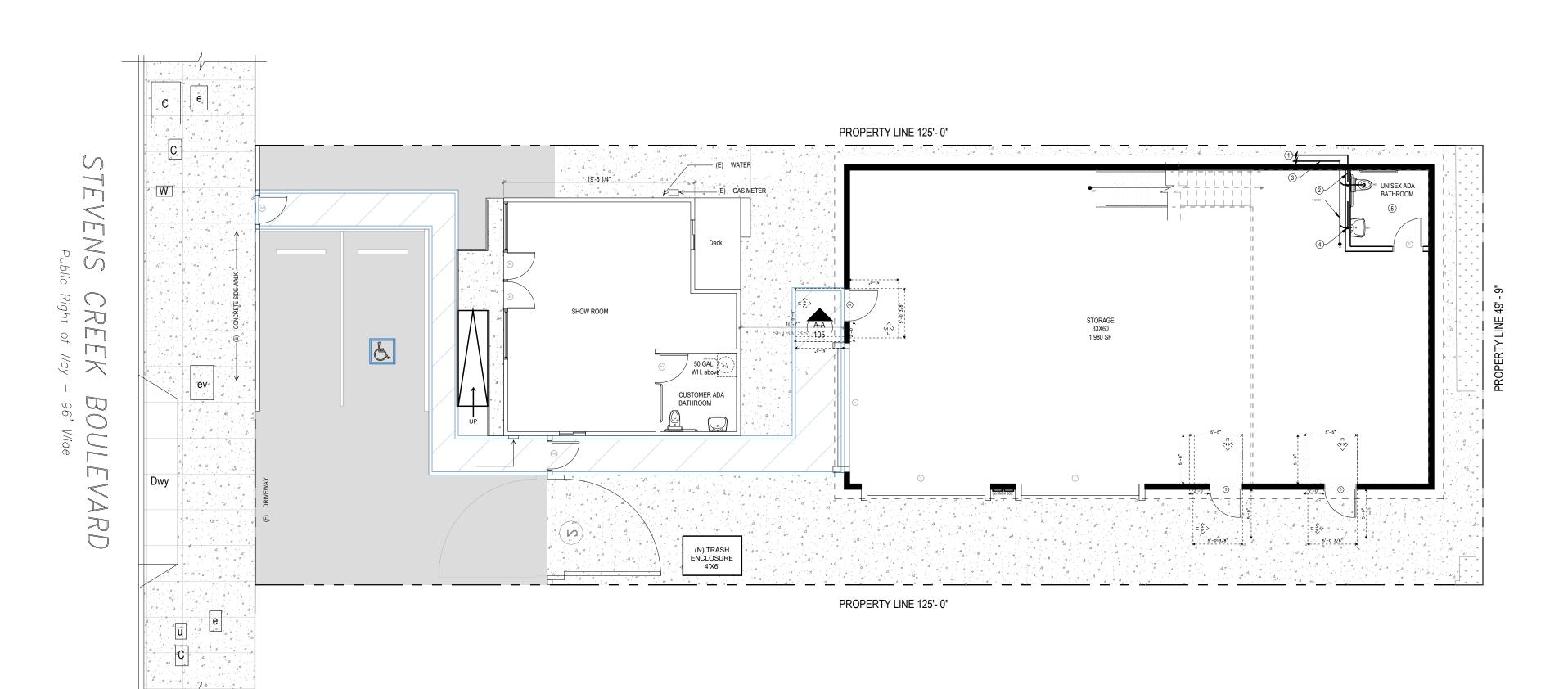




STAIRS - GUARD & HANDRAIL DETAIL



6"=1'-0"



Creek Blvd e, CA. 95126

Revision Date

Stevens San Jose

PROPOSED PLUMBING
PLANS

LEYEND New wall Demolition wall Existing wall

22 PLUMBING
1/8"=1'-0"

Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2023-07-14 07:35:20

Compliance ID: EnergyPro-6249-0723-0186

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2023-07-14 07:35:20

Compliance ID: EnergyPro-6249-0723-0186

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Schema Version: rev 20220601

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Compliance ID: EnergyPro-6249-0723-0186

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE) ¹
Receptacle	0.74	0.74	77.7
Process	555		777
Other Ltg			77.7
Process Motors	507		77.70
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	18.16	7.15	11.01 (60.6%)

CE INDOVE COL	DE' QUALIFICATIONS
CO. ABOVE COL	DE QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-14 07:35:20 Compliance ID: EnergyPro-6249-0723-0186

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 8 of 17)

C7. ENERGY USE SUMMARY					-	
Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating		2.6	()	40.5	:	
Space Cooling	0.7	0.6	0.1		Care	
Indoor Fans	1.2	1.6	-0.4		Care	
Heat Rejection			(Hear)		Cana	***
Pumps & Misc.			C are C		; 	***
Domestic Hot Water	0.3	0.3	0		; 	***
Indoor Lighting	1.7	0.9	0.8		Sent	
Flexibility			(nee c)		Sent	
EFFICIENCY TOTAL	3.9	6	-2.1	40.5	0	40.5
Photovoltaics						
Batteries						-
ENERGY USE SUBTOTAL	3.9	6	-2.1	40.5	0	40.5
Receptacle	1.3	1.3	0	212	722	
Process			X- <u>2-2-2</u> -27	222	7222	2770
Other Ltg		222	// <u></u> 27	222	122	
합. 전기적 선						

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

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Report Generated: 2023-07-14 07:35:20 Compliance ID: EnergyPro-6249-0723-0186

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NRCC-PRF-E

(Page 11 of 17)

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E Nonresidential Performance Compliance Method (Page 9 of 17)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft²/yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI ¹	23.11	9.88	13.23	57.25
NET EUI ¹	23.11	9.88	13.23	57.25

¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is

used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model. • The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls

in Secondary Daylit Zones is required. • The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc. • Project is claiming Exception 1 to Section 140.10(b): No battery storage system is required if the installed PV system size is less than 15 percent of the size determined by

Equation 140.10-A.

• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2. • PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

Process Motors

ENERGY USE TOTAL

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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Report Generated: 2023-07-14 07:35:20 Compliance ID: EnergyPro-6249-0723-0186

NRCC-PRF-E

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 10 of 17) Nonresidential Performance Compliance Method

(Fage 10 of 17						
G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)						
01 02 03 04						
	100 to 10					

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft ²)	Window to Wall Ratio (%)
North-Facing ¹	660	60	9.09
East-Facing ²	1200	15	1.25
South-Facing ³	660	0	0
West-Facing ⁴	1200	0	0
Total	3720	75	2.02
Roof	1820	0	0

¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW), ²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE), ³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE), ⁴West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

G2A. ROOFING PRODUCT SUM	MARY (NONRESIDENTIAL)				
01	02	03	04	05	06
Assembly Name	Roof Pitch	Roof Rise (x in 12)	Aged Solar Reflectance	Thermal Emittance	SRI

· · · · · · · · · · · · · · · · · · ·	-11	<i>1</i>		
G4. NONRESIDENTIAL AIR BARRI	ER			
	01		02	
	Building Story Name		Air Barrier	
	Com-Floor 1		No air barrier	
	AND 500		VAV 1000 NA	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

LowSlope

R-38 Roof No Attic19

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-14 07:35:20 Compliance ID: EnergyPro-6249-0723-0186 CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	0	6	07	08	09	10					
Surface Name	Construction	A (62)	Framing	Cavity	Continuo	us R-Value	Units		Malue	Value	Value	Malua	Malua	Description of Assembly Layers	Status ¹
Surface Ivallie	Туре	Area (ft²)	Туре	R-Value	Interior	Exterior	Ollits	value	Description of Assembly Layers	Status					
R-25 Wall7	Exterior Wall	3,720	Wood	25	N/A	N/A	U-factor	0.0569	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N					
R-38 Roof No Attic19	Roof	1,820	Wood	38	N/A	N/A	U-factor	0.0287	AsphaltShingles0_25In Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-2 Gypsum Board - 1/2 in.	N					
Slab On Grade21	Underground Floor	1,980	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N					
R-0 Floor No Crawlspace32	Interior Floor	540	N/A	0	N/A	N/A	U-factor	0.1832	Air - Cavity - Wall Roof Ceiling - 4 in. or more Plywood - 1/2 in. Carpet - 3/4 in.	N					

¹ Status: N - New, A - Altered, E - Existing

01	02	03	04
Assembly Name	Area (ft ²)	Overall U-factor	Status ¹
Metal Door9	495.9	0.7	N

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Schema Version: rev 20220601

Report Generated: 2023-07-14 07:35:20 Compliance ID: EnergyPro-6249-0723-0186 CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²
Double Non Metal Clear	Vertical fenestration Fixed window N/A	NFRC	Site built	75	0.36	0.25	0.5	N

Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis. ² Status: N - New, A - Altered, E - Existing

01	02	03	04	05	06	07	08	09	10	11	12
				Hea	ting			Cooling			
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status ¹
System 1	Single Zone Heat Pump (SZHP) Air System	1	25	0	N/A	NA	23.04	EER SEER	12.2 15	No Economizer	N
System 2	Single Zone Heat Pump (SZHP) Air System	1	25	0	N/A	NA	23.04	EER SEER	12.2 15	No Economizer	N

¹ Status: N - New, A - Altered, E - Existing

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2023-07-14 07:35:20 Compliance ID: EnergyPro-6249-0723-0186 7 95 **(**

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Revision Date

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24 T-24 (7-10)

elections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained

There are no Certificates of Verification applicable to this project

Report Version: 2022.0.000

Schema Version: rev 20220601

Form/Title

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with

to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

NRCA-ENV-02-F - NRFC label verification for fenestration

NRCA-MCH-03-A - Constant Volume Single Zone HVAC

NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.

MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap

Building Totals:			360	
	2520	560	0	0
See Table 140.6-C See NRCC-LTIE for uncondit Lighting information for exis	ioned spaces ting spaces modeled is not included in	n this table		
K2. INDOOR CONDITIONED	LIGHTING SCHEDULE			
Luminaire Schedule (include	es all permanent installed lighting in	conditioned space, and po	rtable lighting over 0.3 w/ft² in office	es)
01	02	03	04	05
	Complete Luminaire Description (i.e. 3-lamp		Installed Watt	s (Conditioned)
Name or Item Tag	fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Lumir
F1	LED Fixture	40	According to	14
If lighting nower densities we	ere used in the compliance model Bui	ldina Denartments will nee	d to check prescriptive forms for Lumi	inaire Schedule details
CA Building Energy Efficie	ncy Standards - 2022 Nonresident	ial Compliance Rej	port Version: 2022.0.000	Re

Installed Lighting Power

Additional (Custom) Allowance

Area Category Footnotes

Installed Watts

560

NRCC-PRF-E

(Page 17 of 17)

Area Category Footnotes

Lighting Control Credits

Documentation Author Signature:

Responsible Designer Signature:

CEA/HERS Certification Identification (if applicable): R19-06-30151

Scope:

Report Generated: 2023-07-14 07:35:20

Compliance ID: EnergyPro-6249-0723-0186

Signature Date:

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable

compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Date Signed:

License #:

Report Version: 2022.0.000

Schema Version: rev 20220601

5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to

6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at

Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.

Phone: 805-904-9048

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Conditioned Floor Area² (ft²)

Nonresidential Performance Compliance Method

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

Nonresidential Performance Compliance Method

Documentation Author Name: Timothy Carstairs, CEA, HERS, GPR

1. I certify that this Certificate of Compliance documentation is accurate and complete.

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

occupancy, and I will take the necessary steps to accomplish these requirements.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Documentation Author's Declaration Statement

Address: 2238 Bayview Heights Drive Suite E

Responsible Person's Declaration statement

Compliance (responsible designer)

Company: Carstairs Energy Inc.

Responsible Designer Name:

City/State/Zip: San Francisco, CA 94142

Company: Architects SF Address: PO Box 426993

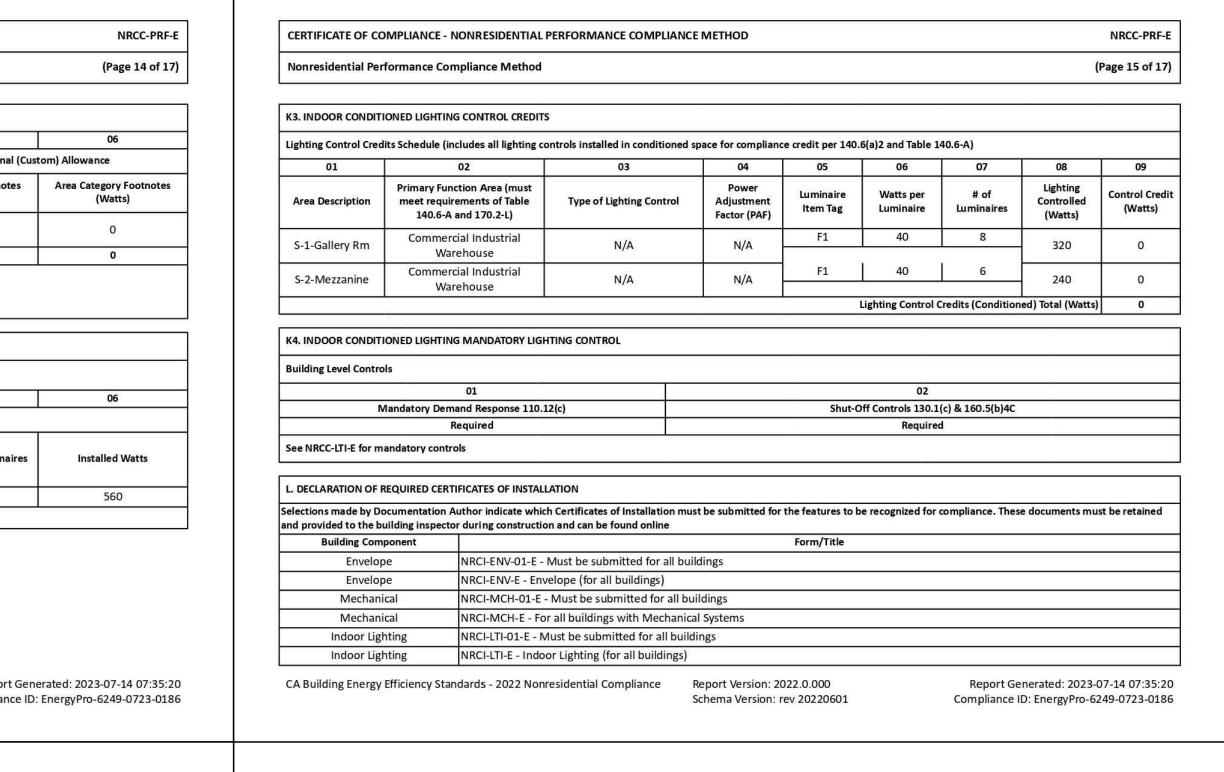
Phone: 415-519-4954

Report Generated: 2023-07-14 07:35:20

Compliance ID: EnergyPro-6249-0723-0186

City/State/Zip: Los Osos, CA 93402

Commercial Industrial



Revision Date

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M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

and provided to the building inspector during construction and can be found online

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Building Component

Envelope

Indoor Lighting

Mechanical

Mechanical

PLUMBING GENERAL NOTES

- THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE THE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- 2. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL ACCESSIBLE FIXTURE LOCATIONS AND MOUNTING HEIGHTS. FURNISH ALL EXPOSED HOT WATER AND DRAIN PIPING BELOW ACCESSIBLE LAVATORIES AND SINKS WITH INSULATION. ALL WATER CLOSET FLUSHING LEVERS SHALL BE TO THE WIDE SIDE OF THE STALL.
- 3. TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL.
- 4. ALL PLUMBING WORK SHALL BE INSTALLED TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
- 5. ALL CLEANOUTS SHALL BE INSTALLED WHERE EASILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH ALL EQUIPMENT, CABINETS AND OTHER OBSTRUCTION PRIOR TO ANY INSTALLATION. CLEANOUTS MUST BE EXTENDED TO FLUSH WITH FINISHED WALL.
- 6. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
- 7. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON PLANS.
- 8. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH VALVE AND PRIOR TO ALL EQUIPMENT CONNECTIONS.
- 9. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH AND PERFORMED AND INSTALLED INCOMFORMANCE WITH THE FOLLOWING CODES AS ADOPTED AND AMENDED BY THE INSPECTING AUTHORITY. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT:
- BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2013 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
 2013 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE, PART 7, TITLE 24 C.C.R.
- 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R., 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. 2013 TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 2013 NFPA 13 — AUTOMATIC SPRINKLER SYSTEMS
- 10. BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF SPECIFICATIONS. ROUGH—IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD.
- 11. ALL SEWER AND VENT PIPING SHALL SLOPE AT 2%.
- 12. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT LOCATED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL. ALL PIPING & DEVICES SHALL BE INSTALLED ABOVE CEILING, WITHIN WALLS, BELOW FLOORS, OR OTHERWISE CONCEALED. EXCEPT PIPING AND DEVICES INSTALLED IN MECHANICAL ROOMS AND OTHER UNFINISHED SPACES.
- 13. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA STATE ENERGY COMMISSION TO COMPLY WITH EFFICIENCY STANDARDS PER SECTION 110.1 OF THE CALIFORNIA ENERGY CODE.
- 14. ALL HOT WATER SUPPLY & RETURN PIPING SHALL BE INSULATED. INSULATION SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE DENSITY NOT EXCEEDING 50 PER CMC SEC. 1201.3.2.11 SEE SPECIFICATION FOR OTHER REQUIREMENTS.
- 15. PIPING THROUGH FIRE RATED WALLS SHALL BE PROTECTED PER U.L. FIRE RESISTANCE SYSTEM NO. WL1001. THE ARCHITECTURAL DESIGN DRAWINGS SHALL INDICATE ALL RATED WALL LOCATIONS.
- 16. SEISMIC BRACING AND ANCHORAGE REQUIREMENTS ARE AS FOLLOWS:

 A. THE SEISMIC ANCHORAGE FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE DESIGNED TO WITHSTAND A LATERAL FORCE:
 - 1. CALCULATED AS SPECIFIED IN SECTION 1632A AND TABLE 16A-0 OF THE VOL. 2, TITLE 24, 2013 CBC.
- B. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED IN PART 2, TITLE 24, 2013 CBC:
- 1. EQUIPMENT WEIGHING LESS THAN 400 LBS. SUPPORTED DIRECTLY ON
- FLOOR OR ROOF.
 2. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2,
- TITLE 24, C.C.R.

 3. TEMPORARY OR MOBILE EQUIPMENT.
- 4. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUPPORTED BY VIBRATION ISOLATORS.
- 5. EQUIPMENT WEIGHING LESS THAN 20 LBS. SUSPENDED FROM A ROOF OR HUNG FROM A WALL.
- 17. THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER & SEWER SYSTEMS TO A POINT OF CONNECTION 5'-0" OUTSIDE OF THE BUILDING. PIPING BEYOND THIS POINT IS SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS AND SHALL BE AS SHOWN ON THE CIVIL DRAWINGS. FINAL CONNECTIONS TO
- 18. WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE REQUIRED AND NECESSARY FOR AND TO ALL FIXTURES, EQUIPMENT OR APPLIANCES WITH QUICK CLOSING VALVE AND SHALL BE OF TYPE SPECIFIED.
- 19. ALL PIPE SIZES SHALL BE THE SAME AS THE UPSTREAM PIPE SIZES UNLESS OTHERWISE INDICATED ON PLAN.
- 20. CLEANOUT SHALL BE PROVIDED AS PER CPC SECTION 707.

SITE PIPING SHALL BE BY THE PLUMBING CONTRACTOR.

- 21. NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED 24. WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.
- 22. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.

- 23. CONTRACTOR SHALL SIZE ALL SERVICE PIPING AND EQUIPMENT TO ACCOMMODATE FUTURE EXPANSION AS INDICATED ON THE ARCHITECTURAL
- 24. PROVIDE COMPLETE CONDENSATE DRAIN PIPING FOR ALL AC UNITS AND DISCHARGE CONDENSATE TO AN APPROVED RECEPTOR.
- 25. ALL LAYOUTS, PIPE SIZES, FIXTURE & EQUIPMENT SELECTIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL PROVIDE A COMPLETE PLUMBING SYSTEM. THE DESIGN, CALCULATIONS, FIXTURE, TRIM, EQUIPMENT AND MATERIALS SELECTIONS & DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AS SPECIFIED.
- 26. INSULATION THICKNESS AND R-VALVES SHALL EXCEED THE REQUIREMENTS OF TITLE 24 BY AT LEAST 20 PERCENT OR NEXT LARGER STANDARD SIZE, WHICH EVER IS GREATER. PIPE INSULATION SHALL BE NOT LESS THAN 1.0 INCH THICK, NOT INCLUDING THE MOISTURE BARRIER OR EXTERIOR JACKET THICKNESS.
- 27. ALL GAS PRESSURE REGULATOR SHALL BE LOCATED AT GROUND LEVEL AND LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT FOR APPROVAL, SIZE AND INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS. NO MEDIUM PRESSURE GAS INSIDE THE BUILDING.
- 28. NO GAS & WATER PIPE SHALL BE INSTALLED UNDER BUILDING SLAB. GAS & WATER PIPES SHALL RISE TIGHT AGAINST EXTERIOR WALL UP TO MIN. 18" AFF AND PENETRATE INTO BUILDING. PROVIDE SHUT-OFF VALVE AND REGULATOR ABOVE GRADE AT INCOMING GAS RISERS.
- 29. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING MECHANICAL, CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO INSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING DESCRIPTION CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
- 30. ALL PLUMBING SYSTEM COMPONENTS SHALL MEET OR EXCEED THE REQUIREMENTS OF C.B.C. (CALIFORNIA EDITION), CMC, CPC, NEC, NFPA, ASTM, ANSI, AND ALL LOCAL AND STATE CODE REQUIREMENTS.
- 31. ALL PLUMBING EQUIPMENT LISTED IN (CCR) SECTION 113 OF THE 2013 CALIFORNIA CODE OF REGULATIONS, TITLE—24, PART 6, ENERGY EFFICIENCY STANDARDS MUST BE CERTIFIED BY THE MANUFACTURER TO MEET OR EXCEED SPECIFICATIONS OR EFFICIENCIES ADOPTED BY THE CEC.
- 32. ALL PIPING EXPOSED TO WEATHER SHALL BE METALLIC.
- 33. ALL FERROUS PIPING EXPOSED TO WEATHER SHALL BE GALVANIZED.
- 34. ALL PIPES, FITTINGS AND FIXTURES USED TO CONVEY POTABLE WATER SHALL BE LEAD FREE IN COMPLIANCE WITH CALIFORNIA AB 1953.
- 35. ALL INSULATING MATERIALS INSTALLED MUST BE CERTIFIED BY CALIFORNIA ENERGY COMMISSION TO MEET C.E.C. ENERGY EFFICIENCY STANDARDS (E.E.S.) SECTION 120 AND SECTION 1201.3.2.11 OF CMC (CALIFORNIA EDITION).
- 36. ALL INSULATION INSTALLED SHALL MEET THE FLAME SPREAD AND SMOKE DENSITY REQUIREMENTS OF SECTION 720 OF THE 2013 CBC.
- 37. ALL GAS APPLIANCES MUST HAVE PILOTLESS IGNITION SYSTEM IN ACCORDANCE WITH SECTION 110.5 OF THE 2013 CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6, CALIFORNIA ENERGY CODE.
- 38. ALL FIXTURES REQUIRED TO BE ACCESSIBLE SHALL BE INSTALLED AS PER THE LATEST REQUIREMENTS OF TITLE 24 AND ADA (AMERICANS WITH DISABILITIES ACT).
- 39. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT (OTHER THAN THOSE LISTED IN INFORMATION BULLETIN 103).
- 40. ALL HEATERS FOR DOMESTIC HOT WATER MUST BE CERTIFIED BY THE MANUFACTURER TO MEET THE SPECIFICATIONS OR EFFICIENCIES AS ADOPTED BY THE CEC. IN ACCORDANCE WITH SECTION 110 OF THE CALIFORNIA ENERGY
- 41. A WATER HEATER PRESSURE AND TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 OF CPC
- 42. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 OF CPC.
- 43. WATER HEATER SHALL COMPLY WITH SECTION 608.3 OF CPC, FOR THERMAL EXPANSION REQUIREMENTS.
- 44. LAVATORY FAUCETS IN PUBLIC RESTROOM SHALL BE SELF CLOSING TYPE.
- 45. NONRESIDENTIAL LAVATORY FAUCETS SHALL BE 0.4 GPM MAXIMUM.
- 46. METERING FAUCETS SHALL BE 0.2 GPC MAXIMUM.
- 47. KITCHEN FAUCETS AND WASH FOUNTAINS SHALL BE 1.8 GPM MAXIMUM.
- 48. WATER CLOSETS (GRAVITY TANK TYPE, FLUSHOMETER TANK, FLUSHOMETER VALVE AND ELECTROMECHANICAL HYDRAULIC TYPE) SHALL BE 1.28 GPF MAXIMUM.
- 49. URINALS SHALL BE 0.5 GPF MAXIMUM.

PLUMBING SPECIFICATIONS

- 1. <u>GENERAL PROVISIONS</u> THE GENERAL CONDITIONS, SUPPLEMENTS AND AMENDMENTS SHALL GOVERN THIS DIVISION OF THE SPECIFICATIONS.
- PROJECT REQUIREMENTS PROVIDE ALL ITEMS, MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE WORK OR
 OPERATIONS MENTIONED HEREIN, OR INDICATED ON THE DRAWINGS AND REASONABLY INFERRED THEREIN, AS REQUIRED TO
 MAKE A COMPLETE AND WORKING SYSTEM.
- . <u>INTENT</u> WORK SHALL BE DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THEIR INTENT, COMPLETE WITH ALL NECESSARY COMPONENTS, INCLUDING THOSE NOT NORMALLY SHOWN OR CALLED FOR, AND SHALL BE READY FOR OPERATION BEFORE ACCEPTANCE.
- 4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
- 5. ANY REFERENCE TO THE DESIGN AUTHORITY SHALL MEAN MR ENGINEERING CONSULTANTS, INC.
- 6. THE WORK "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL" UNLESS OTHERWISE INDICATED.
- GOVERNING REGULATIONS THE WORK UNDER PLUMBING SCOPE OF WORK, SHALL CONFORM, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING CODES. REGULATIONS AND STANDARDS:
- A. 2013 EDITIONS OF THE CALIFORNIA BUILDING CODE, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING, FIRE AND ENERGY CODES.
- 8. <u>PERMITS</u> OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES THEREFORE AND COMPLY WITH ALL LOCAL AND STATE REGULATIONS, CODES AND BY-LAWS APPLICABLE TO THE WORK.
- 9. <u>RESPONSIBILITY</u> VISIT THE SITE BEFORE SUBMITING A BID AND EXAMINE ALL LOCAL AND EXISTING CONDITIONS ON WHICH THE WORK IS DEPENDENT.
- 10. NO CONSIDERATION WILL BE GRANTED FOR ANY MISUNDERSTANDING OF WORK TO BE DONE RESULTING FROM FAILURE TO VISIT THE SITE.
- 11. WHEN THE CONTRACT DOCUMENTS DO NOT CONTAIN SUFFICIENT INFORMATION FOR THE PROPER SELECTION OF EQUIPMENT FOR BIDDING, NOTIFY THE DESIGN AUTHORITY DURING THE BIDDING PERIOD. IF CLARIFICATION CANNOT BE OBTAINED, ALLOW FOR THE MOST EXPENSIVE ARRANGEMENT. FAILURE TO DO THIS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SUPPLY THE INTENDED EQUIPMENT AND OR INSTALLATION.
- 12. CHECK DRAWINGS OF ALL TRADES AND SITE SURVEY TO VERIFY SPACE AVAILABILITY FOR THE INSTALLATION. COORDINATE WORK WITH ALL TRADES AND MAKE CHANGES TO FACILITATE SATISFACTORY INSTALLATION. MAKE NO DEVIATIONS TO THE DESIGN INTENT INVOLVING EXTRA COST TO THE OWNER WITHOUT DESIGN AUTHORITY WRITTEN APPROVAL.
- 3. <u>WORKMANSHIP</u> WORKMANSHIP SHALL BE IN ACCORDANCE WITH WELL ESTABLISHED PRACTICE AND STANDARDS ACCEPTED AND RECOGNIZED BY DESIGN AUTHORITY AND THE TRADE.
- 14. EMPLOY ONLY TRADESMEN HOLDING VALID TRADE QUALIFICATION CERTIFICATES. TRADESMEN SHALL PERFORM ONLY WORK THAT THEIR CERTIFICATE PERMITS.
- 15. <u>DRAWING AND MEASUREMENTS</u> DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO INDICATE THE SCOPE AND GENERAL ARRANGEMENT OF WORK. DO NOT SCALE DRAWINGS.
- 16. TAKE FIELD MEASUREMENTS WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON BUILDING DIMENSIONS.
- 17. <u>SUBMITTALS</u> SUBMIT THREE SETS OF ALL EQUIPMENT AND RELATED MATERIAL FOR APPROVAL PRIOR TO ORDERING.
- 18. <u>RECORD DRAWINGS</u> MAINTAIN ONE CONTRACT DRAWING, WHITE PRINT, ON SITE, SOLELY FOR THE PURPOSE OF RECORDING, IN RED, ANY CHANGES AND/OR DEVIATION FROM THE CONTRACT DRAWINGS AS IT OCCURS.
- 19. AT THE COMPLETION OF THE PROJECT, CERTIFY THE ABOVE—MENTIONED DRAWINGS AS BEING ACCURATE AND COMPLETE BY LABELLING IN THE LOWER RIGHT HAND CORNER IN LETTERS OF AT LEAST $\frac{1}{2}$ INCH HIGH AS FOLLOWS: "AS-BUILT DRAWINGS. DATED ---". DELIVER TO DESIGN AUTHORITY.
- 20. OPERATING AND MAINTENANCE MANUALS PREPARE INSTRUCTION MANUALS WHICH INCLUDE EQUIPMENT MANUFACTURER'S OPERATING AND MAINTENANCE BULLETINS, AND A REPORT ON THE TESTING AND BALANCING. SUBMIT THREE (3) COPIES TO DESIGN AUTHORITY.
- 21. EXISTING SERVICES PROTECT ALL EXISTING SERVICES AND MAKE GOOD ANY DAMAGE CAUSED BY THE WORK IN THIS
- 22. CLEAN UP MAKE GOOD AND CLEAN ALL AREAS DISRUPTED BY THIS WORK.
- 23. ARRANGEMENT AND ALIGNM, ENT OF PIPING:

B. OSHA REGULATIONS

- A. PIPING SHALL BE GROUPED (WHEREVER PRACTICAL) INSTALLED IN STRAIGHT PARALLEL LINES ALIGNED IN A UNIFORM DIRECT MANNER. CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH FITTINGS.
- B. PIPE LINES SHALL BE GUIDED, SUPPORTED AND ANCHORED IN SUCH MANNER THAT PIPE LINES SHALL NOT SAG OR BUCKLE.
- A. PIPING TO EQUIPMENT SHALL BE CONNECTED WITH UNION FOR DISMANTLING AND REMOVAL.
- B. PIPING SHALL BE REAMED AFTER CUTTING. JOINTS WHEN COMPLETE SHALL BE THOROUGHLY CLEANED OF ALL EXCESS PIPE JOINT MATERIALS.
- C. PROVIDE DIELECTRIC FITTINGS BETWEEN DISSIMILAR PIPING CONNECTIONS.
- 25. HANGERS AND SUPPORTS:

24. <u>JOINTS:</u>

- A. PIPING EQUIPMENT, ETC., SHALL BE PROPERLY SUPPORTED WITH THE USE OF APPROVED TYPE CLEVIS AND/OR TRAPEZE HANGERS SPACED 5'-0" ON CENTERS FOR CAST IRON PIPING AND 8'0" ON CENTERS FOR WATER PIPING.
- B. PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM WALLS, JOISTS OR STRUCTURAL STEEL GIRDERS ONLY.
- 26. PLUMBING FIXTURES:
- A. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FIXTURES INCLUDED IN THE CONTRACT FROM DAMAGE CAUSED BY ACIDS, BUILDING MATERIALS, TOOLS, EQUIPMENT, ETC. UPON COMPLETION OF THE CONTRACT, OR WHEN DIRECTED, PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES TO THE SATISFACTION OF THE DESIGN AUTHORITY.
- B. WHERE FIXTURES ARE DAMAGED, SAID FIXTURES SHALL BE REPLACED BY THE PLUMBING CONTRACTOR IMMEDIATELY UPON NOTIFICATION.
- C. ALL EQUIPMENT FURNISHED BY OWNERS THAT REQUIRE PLUMBING CONNECTION SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR. PROVIDE SHUT-OFF VALVE ON WATER SUPPLY WERE REQUIRED BY CODE.
- D. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.
- E. FIXTURES SHALL BE SECURED WITH MOUNTING BOLTS FROM CARRIERS OR HANGERS.
- F. FIXTURES SHALL BE INSTALLED LEVEL, PLUMB.
- G. FITTINGS SHALL BE NEATLY INSTALLED, MOUNTED TO FIXTURES PRIOR TO INSTALLATION OF FIXTURES. PROVIDE NON-HARDENING PUTTY BETWEEN FITTINGS AND FIXTURE SURFACES.
- H. FITTINGS SHALL BE SECURED WITHOUT MARRING OR DAMAGING CHROME PLATING.

27. INSULATION:

- A. DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC PIPE INSULATION COMPLYING WITH ASTM C534.
- B. INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- C. INSTALLATION OF INSULATIONS SHALL BE DONE ONLY AFTER PIPING ARE TESTED AND DETERMINED TO BE FREE FROM

PLUMBING LEGEND

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SYMBOL	ABBREVIATION	DESCRIPTION
•	POC/POD	POINT OF CONNECTION / POINT OF DISCONNECTION
—s—	S	SANITARY OR WASTE PIPING
	V	SANITARY VENT PIPING
	CW	DOMESTIC COLD WATER PIPING
	HW HWR	DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN
G	G	NATURAL GAS PIPING — 8" WATER COLUMN
—G5P—	G5P	NATURAL GAS 5 PSI
—HPG—	HPG	HIGH PRESSURE GAS > 5PSI
—CD—	CD	CONDENSATE DRAIN PIPING
<u> </u>		PIPE DOWN
		PIPE UP
<u> </u>		PIPE BRANCH - TOP CONNECTION PIPE BRANCH - BOTTOM CONNECTION
ĭ		PIPE BRANCH - SIDE CONNECTION
		PIPE CAP
		DIRECTION OF FLOW
		PIPE SLOPE & DIRECTION OF FALL
P	NA/III A	THERMOMETER WATER HANNER ARRESTOR
Ş	WHA	WATER HAMMER ARRESTOR PIPE BREAK
—II	wco	WALL CLEANOUT
/\		PIPE CONTINUATION
ф	FCO/COTG	FLOOR CLEANOUT OR CLEANOUT TO GRADE
0	FD	FLOOR DRAIN —
	FS SOV	FLOOR SINK
<u></u>	PRV/GPR	SHUT OFF VALVE PRESSURE REDUCING VALVE/GAS PRESSURE REGULATOR
—l <u>√</u> I—	LINY OLIV	PLUG VALVE / GAS COCK
<u>§</u>		PRESSURE GUAGE
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	ARCH	ARCHITECT OR ARCHITECTURAL
	B/C B/G	BELOW COUNTER BELOW GRADE
	B/S	BELOW SKADE
	C.I.	CAST IRON
	DF	DRINKING FOUNTAIN
	DWG/DWGS	DRAWING/DRAWINGS
	DN	DOWN
	EA ELECT	EACH ELECTRICAL
	ELEV	ELEVATION
	°F	DEGREES FAHRENHEIT
	FFE	FINISHED FLOOR ELEVATION
	FH	FUME HOOD
	FT	FEET OF HEAD
	FT HD GPF	FEET OF HEAD GALLONS PER FLUSH
	GPM	GALLONS PER MINUTE
	GA	GAUGE
	GALV	GALVANIZED
	HB	(+18")
	HD IPS	HEAD IRON PIPE SIZE
	I.E.	INVERT ELEVATION
	MAX	MAXIMUM
	MECH	MECHANICAL
	MIN	MINIMUM
	MS	MOP SINK / SERVICE SINK
	MTD NTS	MOUNTED NOT TO SCALE
	OPER	OPERATING
	PD	PRESSURE DROP
	PSI	POUNDS PER SQUARE INCH
	P&TRV	PRESSURE AND TEMPERATURE RELIEF VALVE
	QTY	QUANTITY
	SPEC SOV	SPECIFICATION SHUT OFF VALVE
	SQ FT	SQUARE FEET
	TYP	TYPICAL
	VTR	VENT THRU ROOF
	W.C.	WATER COLUMN
	I	EQUIPMENT TYPE
EQUIPMENT	IDENTIFICATION	N SYMBOL
		EQUIPMENT IDENTIFIER

ARCHITEC

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Stevens Creek Blvd San Jose, CA. 95126

DRAWING TITLE:
PLUMBING GENERAL
NOTES

	7	FIXT	URE DATA	А		
					TOTAL FIXTURE UNITS	
DESCRIPTION	QTY	WATER SUPPLY FIXTURE UNITS	DRAINAGE FIXTURE UNITS	COLD WATER	HOT WATER	SEWER
WATER CLOSET	1	1.0	2.0	1.0		1.0
BATHROOM	1	1.0	1.0	2.0	1.0	1.0
SINK	1	1.0	2.0	2.0	1.0	1.0
į.						
0						
		1	TOTALS:	5.0	2.0	3.0

	TOTALS					
		TOTAL DEMAND			TOTAL GPM	
DESCRIPTION	COLD WATER	HOT WATER	SEWER	COLD WATER	HOT WATER	SEWER
FIXTURES	5.0	2.0	3.0	3.0	2.0	1.5

PRESSURE CALCULATION	IS				
			(PSI)		
PRESSURE IN STREET:			65.0		
PIPING LOSS: STREET MAIN TO METER			0.2		
LOSS ACROSS METER			5.0		
PIPING LOSS: METER TO BACKFLOW PREVENTER			0.1		
LOSS ACROSS BACKFLOW PREVENTER					
PIPING LOSS: BACKFLOW PREVENTER TO POC:			0.2		
-			=		
=			2 2		
ELEVATION LOSS:					
VERTICAL DISTANCE FROM STREET MAIN TO HIGHEST OUTLET:	10.0	X 0.43 =	4.3		
RESIDUAL PRESSURE REQUIRED:			20.0		
PRESSURE AVAILABLE FOR FRICTION LOSSES IN BUILDING PIPING:			23.2		
DEVELOPED LENGTH OF BUILDING PIPING:			160		
PRESSURE AVAILABLE FOR FRICTION LOSSES PER 100 FT OF BUILDING PIPING:			14.5		

		CW PIPE SIZINO	G TABLE	
SIZE	<u>GPM</u>	FLUSH TANK FIXTURE UNITS	FLUSH VALVE FIXTURE UNITS	VELOCITY
1"	3.1	3	_	4.3
3" 4	8.4	10.0	=	5.7
1"	17.0	24.0	_	6.8
1¼"	29.0	51.0	12	8.0
1 <mark>1</mark> "	41.0	90.0	30	8.0
2"	72.0	236.0	116	8.0

	HW PIPE SIZING TABLE						
<u>SIZE</u>	<u>GPM</u>	FLUSH TANK FIXTURE UNITS	FLUSH VALVE FIXTURE UNITS	<u>VELOCITY</u>			
1"	3.1	3	-	4.4			
3" 4	7.2	8.0	_	5.0			
1"	13.0	18.0	=	5.0			

FIXTURE SCHEDULE							
ITEM	WASTE	TRAP	VENT	CW	HW	DESCRIPTION	
<u>wc</u>	4"	INT	2"	1/2"	-	WATER CLOSET: 'KOHLER' MODEL K-3658, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.28 GPF, ADA COMPLIANT, COMPLETE WITH TANK AND CHROME TRIP LEVER AND SUPPLY WITH STOP.E SEAT: 'OLSONITE' MODEL 95SSCT, HEAVY DUTY WHITE MOLDED PLASTIC WITH STAINLESS STEEL HINGE WITH STOP, OPEN FRONT AND LESS COVER.	
ВАТН	2"	1 1/2"	2"	1/2"	1/2"	FIXTURE (ACCESSIBLE): 'KOHLER' MODEL K-2035-4, VITREOUS CHINA, WITH OVERFLOW, 4" CENTERS WITH K-2057 SHROUD. TRIM: SYMMONS MODEL S-74-G, METERING FAUCET, MAX. OF 0.25 GAL. PER CYCLE, VANDAL RESISTANT. PROVIDE WITH CAST BRASS, CHROME PLATED, CODE APPROVED "P" TRAP AND SUPPLIES WITH STOPS.	
<u>SK</u>	2"	1 1/2"	2"	1/2"	1/2"	FIXTURE (ACCESSIBLE): 18 GAUGE, TYPE 304 STAINLESS STEEL, SELF RIM, 3-HOLE PUNCH, 25"x21-1/4"x5-1/2" DEEP. 'ELKAY' LRAD 2521 WITH CRUMB CUP STRAINER. TRIM: SYMMONS NO. S-235 WITH SINGLE LEVER HANDLE AND 0.5 GPM FLOW RESTRICTOR, VANDAL RESISTANT. PROVIDE WITH CAST BRASS, CHROME PLATED, CODE APPROVED "P" TRAP AND SUPPLIES WITH STOPS.	
<u>IP</u>	-		-	1/2"	-	TRAP PRIMER: 'PRECISION PLUMBING PRODUCTS' MODEL PR-500.	
WHA	-	-	-	_	: :	PPP WATER HAMMER ARRESTER. (PER PDI WH201-94 SIZING TABLE)	

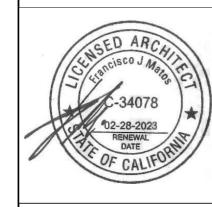
		PLUMBING PIPE MATERIAL SCHEDULE	
SERVICE	LOCATION	PIPE MATERIAL	
WATER	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'
WATER	BELOW GRADE	ASTM B88 TYPE "K" HARD DRAWN COPPER, FACTORY INSULATED, WITH WROUGHT COPPER FITTINGS.	1/32" PER 1'
OFWER AND VENT	ABOVE GRADE	ASTM A74 SERVICE WEIGHT CAST IRON, ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'
SEWER AND VENT	BELOW GRADE	ABS SCHEDULE 40 (CONFORM TO ASTMD 2321-2000), ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 1'
	ABOVE GRADE	SCHEDULE 40 GALVANIZED STEEL "BLACK" PIPE. ALL FITTINGS SHALL BE AS PER CFC.	1/4" PER 15'
NATURAL GAS	BELOW GRADE	ABS SCHEDULE 40 (CONFORM TO ASTMD 2321-2000), ALL FITTINGS SHALL BE AS PER CPC.	1/4" PER 15'
CONDENSATE	ABOVE GRADE	ASTM B88 TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.	1/4" PER 1'

PLUMBING EQUIPMENT SCHEDULE								
SYMBOL	QUANTITY	DESCRIPTION						
WH 1	1	WATER HEATER - "EEMAX" MODEL SP3208, 3.0 KW INPUT, 14.4 AMPS, 41°F RISE AT 0.5 GPM FLOW.						

SF ARCHITECTS

KCHII EC 13 3

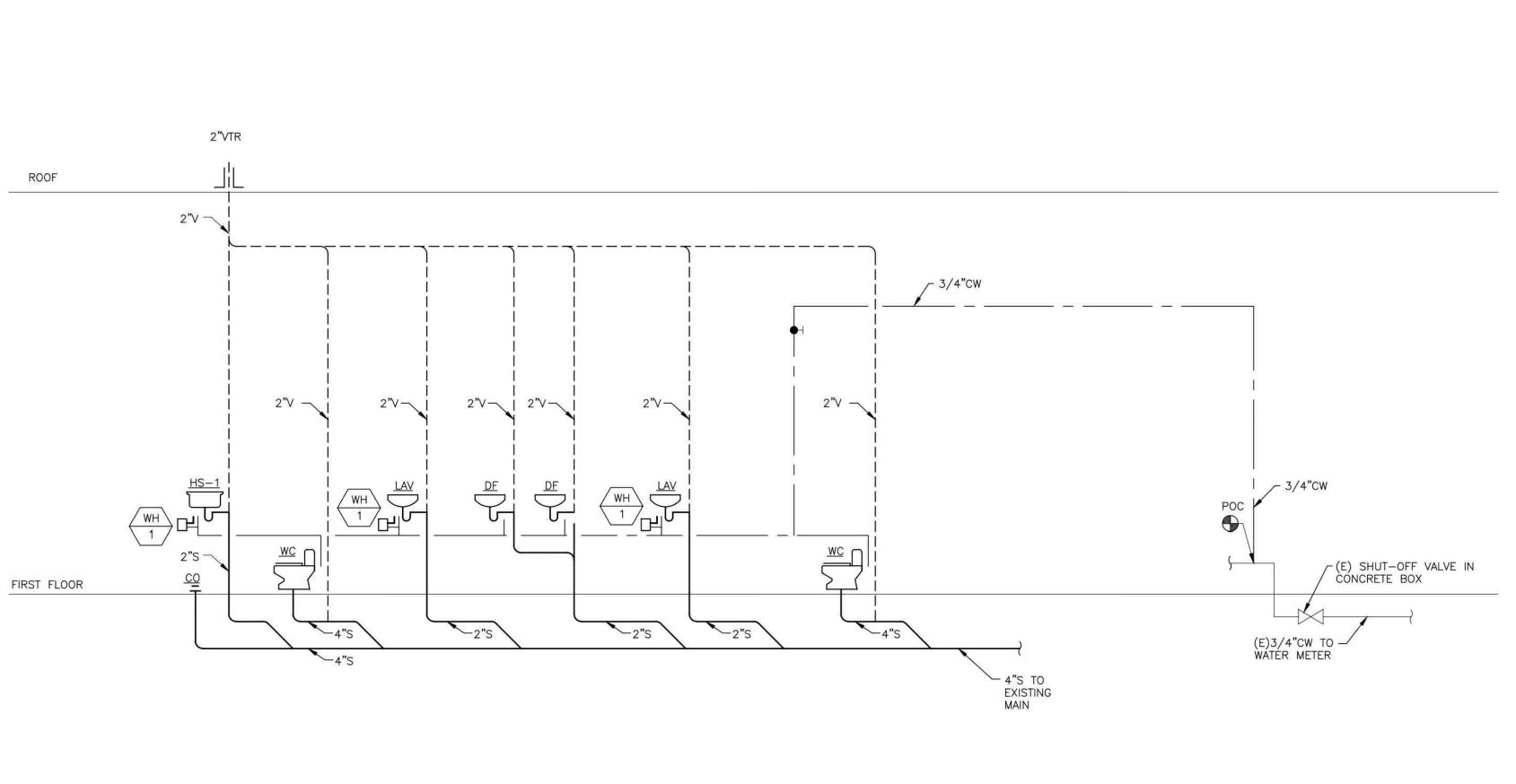
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DRAWING TITLE:
PLUMBING SCHEDULES

P-2



DOMESTIC WATER AND SANITARY RISER DIAGRAM
NOT TO SCALE

Blvd 95126

Revision Date

DRAWING TITLE:
PLUMBING DIAGRAM

