

2016 Cal Green and MVGB: Commercial Compliance Sheet 1 of 2

Вох	х	4			ial Alterations ≥ \$200,000 & 000 s.f. [1, 2]	Project Number:			
× I		5	New N	on-Res	idential Buildings < 5,000 s.f.	Permit Address: 325 GLADYS AVE, MOUNTAIN VIEW, CA 94043			
Je l		6	New N	on-Res	idential Buildings 5,000 - 25,000 s.f.	JEST GLADIO AVE, MICONTAIN VIEW, CA 34043		9	
ਹ		7	_		idential Buildings > 25,000 s.f.				Compliant S
#	4		6	7	Non-Residential Sections	Measures	Plan requirements	Location on Plans	Verification [3] Responsible Post Party Constructi
1	-	3	1 0	- 1	Division III Section 8.20.10 & 8.20.11:	GREEN BUILDING CODE (California Green Building Standards Code - Adopted):	4		raity constituti
2			T .		MVGBC 8.20.12	LEED (Meet the intent of LEED Certified)	LEED doc. on plans	N/A	LEED Prof
3	4 10		+-		MVGBC 8.20.13	LEED (Meet the intent of LEED certified)	LEED doc. on plans	N/A N/A	LEED Prof
4			-		CalGreen Division 5.1 Section 5.106	PLANNING AND DESIGN (Site Development CalGreen section):	ELLE door on plane	IN/A	
	•	•	T .	-	MVGBC 8.20.41	Storm water pollution prevention plan [4]	Details on Plans	N/A	Env Safety
3	•	-	1		CalGreen Section 5.106.4.1.1	Short Term Bicycle parking if anticipated to generate visitor traffic	Details on Plans	N/A	Field Insp
7	•	•	•	•	CalGreen Section 5.106.4.1.2	Long Term Bicycle parking in antioipated to generate visites trains Long Term Bicycle parking new ≥ 10 tenant-occupants/addition or remodel ≥ 10 tenant vehicular parking spaces	Details on Plans		Field Insp
8	•	٠	•		CalGreen Section 5.106.5.2	Designated Parking For Clean Air Vehicles new projects or additions or alterations that add ≥ 10 vehicular parking spaces for low- emitting, fuel-efficient and carpool / van pool vehicles (Table 5.106.5.2)	Details on Plans	N/A N/A	Field Insp
9	2 01	•	•		MVGBC 8.20.42 to 8.20.46	Electric Vehicle (EV) Charging new construction (Table A5.106.5.3.2)	Details on Plans	N/A	Field Insp
10		•	+ :		CalGreen Section 5.106.8	Light pollution reduction (Table 5.106.8)	Details on Plans	N/A N/A	Field Insp
,	÷	•	l :		CalGreen Section 5.106.10	Grading and paving	Details on Plans	N/A	Field Insp
2	_	2 0.00			CalGreen Division 5.3 Section 5.303.1	WATER EFFICIENCY AND CONSERVATION (Indoor Water Use):	_ Julio off Fiding	14/7	
3	10			7.47	CalGreen Section 5.303.1.1	Meters new buildings or additions in excess of 50,000 square feet separate submeters shall be installed	Notes on Plans	NI/A	Field Insp
_		· (4)	١.	2.55	CalGreen Section 5.303.1.1	Meters new buildings or additions in excess of 50,000 square feet separate submeters shall be installed Meters excess comsumption separate submeter shall be provided for tenants consuming more than 1,000 gal/day	Notes on Plans	N/A	Field Insp
1 5	8.47	(0.50		200	CalGreen Division 5.3 Section 5.303.3		140tes on Fidils	N/A	Tiold Hop
_			-			WATER EFFICIENCY AND CONSERVATION (Water Conserving Plumbing Fixtures):	Notes as Diseas		Cield Ison
	•	•	•	•	CalGreen Section 5.303.3.1	Water closets shall not exceed 1.28 gallons per flush	Notes on Plans	N/A	Field Insp
	•	•	•	•	CalGreen Section 5.303.3.2.1	Wall mounted Urinals shall not exceed 0.125 gallons per flush	Notes on Plans	N/A	Field Insp
	•	•	•		CalGreen Section 5.303.3.2.2	Floor mounted Urinals shall not exceed 0.5 gallons per flush	Notes on Plans	N/A	Field Insp
	•	•	•		CalGreen Section 5.303.3.3.1	Single showerhead shall have a maximum flow of 2.0 gpm at 80 psi	Notes on Plans	N/A	Field Insp
)	•	•	•	•	CalGreen Section 5.303.3.3.2	Multiple showerheads serving more than one shower shall have combined flow of 2.0 gpm at 80 psi	Notes on Plans	N/A	Field Insp
1	•	٠	•	•	CalGreen Section 5.303.3.4.1	Lavatory faucets shall have a maximum flow rate of not more than 0.5 gpm at 60 psi	Notes on Plans	N/A	Field Insp
2	•	•	•	•	CalGreen Section 5.303.3.4.2	Kitchen faucets shall have a maximum flow rate of not more than 1.8 gpm at 60 psi	Notes on Plans	N/A	Field Insp
3	•	•	•	•	CalGreen Section 5.303.4.1	Commercial Kitchen Equipment food waste disposer	Notes on Plans	N/A	Field Insp
4			Fig. 1995 - 2		CalGreen Division 5.3 Section 5.304	WATER EFFICIENCY AND CONSERVATION (Outdoor Water Use):			
5		•	•		MVGBC 8.20.48	Compliance with Local Water-Efficient Landscape Ordinance projects with landscape areas ≥ 1,000 square feet must comply w/ MVGBC section 36.34.30 Landscape areas < 1,000 square feet must comply w/ CalGreen Section 5.304	Notes on Plans	N/A	Field Insp
6	•	•	•	•	MVGBC 8.20.49	Water budget	Details/Notes on P.	N/A	Field Insp
7	•	•	•	•	MVGBC 8.20.50	Outdoor potable water use in landscape areas between 1,000 and 5,000 square feet	Details/Notes on P.	N/A	Field Insp
	•	•	•	•	CalGreen Section 5.304.2	Outdoor water use in landscape project ≥ than 500 square feet		N/A	
	•	•	•	•	CalGreen Section 5.304.3	Outdoor water use in rehabilitated landscape project ≥ than 2,500 square feet	Details/Notes on P.	N/A	Field Insp
	•	•	•	•	CalGreen Section 5.304.4	Outdoor water use in landscape areas of 2,500 square feet or less	Details/Notes on P.	N/A	Field Insp
		•	•	•	MVGBC 8.20.51 & 8.20.52	Irrigation design new nonresidential between 1,000 and 2,500 square feet (MWELO) & Irrigation controllers			
2					CalGreen Section 5.304.5	Graywater or rainwater use in landcape areas	Details/Notes on P.	N/A N/A	Field Insp
}	1.0	3350		181	CalGreen Division 5.4 Section 5.407	MATERIAL CONSERVATION AND RESOURCE EFFICIENCY (Water Resistance and Moisture Management):	Dotallor Totos Off 1	19/7	, ioid mob
1			1 .		CalGreen Section 5.407.1		Details/Notes on P.		Field Insp
_	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	•	•	•		Weather protection provide a weather-resistant exterior wall and foundation envelope		N/A	77. 3
5	•	•	•	•	CalGreen Section 5.407.2	Moisture Control employ moisture control measures	Details/Notes on P.	N/A	Field Insp
)					CalGreen Division 5.4 Section 5.408	MATERIAL CONSERVATION AND RESOURCE EFFICIENCY (Construction Waste Reduction, Disposal & Recycling):	0.0 =		5.17.18.1
	•	٠	•	•	MVGBC 8.20.53	Construction Waste Diversion 65% reduction [4]	Notes on Plans	2/A3.1	Public Works
3	•	•	•	•	MVGBC 8.20.54	Construction Waste Management Plan / Diversion [4]	Notes on Plans	N/A	Public Works
)	•	•	•	•	CalGreen Section 5.408.3	Excavated soil and land clearing debris 100% reused or recycled [4]	Notes on Plans	N/A	Public Works
0					CalGreen Division 5.4 Section 5.410	MATERIAL CONSERVATION AND RESOURCE EFFICIENCY (Building Maintenance and Operation):			C20 100 9
1	•	•	•	•	CalGreen Section 5.410.1	Recycling by Occupants recycling applies to (N) buildings and additions ≥ 30% increase in floor space within 12 month period	Notes on Plans	N/A	Field Insp
12			•	•	CalGreen Section 5.410.2 to 5.410.2.6	Commissioning for new buildings 10,000 square feet and over a building commissioning shall be included in design & construction process of the building project and comply with the commissioning requirements	Notes on Plans	N/A	LEED Prof
43	•	•			CalGreen Section 5.410.4 to 5.410.4.5.1	Testing and Adjusting shall be required for new buildings less than 10,000 square feet or new systems serving additions or alterations subjetc to section 303.1	Details on Plans	N/A	LEED Prof

44				CalGreen Division 5.5 Section 5.503	ENVIRONMENTAL QUALITY (Fireplaces):			
45 •	•	•	•	MVGBC 8.20.55 & 8.20.56	Install only Direct-vent sealed-combustion gas, sealed woodburning fireplaces, sealed wood stove or pellet stove general information & verification	Notes on Plans	N/A	LEED Prof/ F.I.
46 •	•	•	•	MVGBC 8.25 & 8.25.3 to 8.25.7	Wood Burning Appliances (wood stoves, pellet stoves) for new commercial buildings or appliances being added or replacing shall comply with U.S. EPA New Source Performance Standards (NSPS) [4]	Notes on Plans	N/A	LEED Prof/ F.I.
47		×		CalGreen Division 5.5 Section 5.504	ENVIRONMENTAL QUALITY (Pollulant Control):			32
48 •			•	CalGreen Section 5.504.1	Temporary ventilation if HVAC system used during construction use return air filters comply with MERV of 8.	Notes on Plans	N/A	LEED Prof
49 •	•	•		CalGreen Section 5.504.3	Covering of duct openings and protection of mechanical equipment during construction shall be covered with tape, plastic, sheet metal or other methods acceptable	Details on Plans	N/A	LEED Prof/ F.I. (Field Insp)
50 •	•	•	•	CalG Section 5.504.4 & 5.504.4.1	Finish material pollutant control adhesives, sealants & caulks shall comply w/VOC limits (Table 5.504.4.1 & 5.504.4.2)	Details on Plans	N/A	LEED Prof
51 •	•	•	•	CalG Section 5.504.4.3 to 5.504.4.3.2	Finish material pollutant control paints and coatings shall comply with VOC (Table 5.504.4.3), aerosols paint and coating & verification	Details on Plans	N/A	LEED Prof
52 •	•	•	•	CalGreen Section 5.504.4.4	Finish material pollutant control carpet systems shall comply with VOC, carpet cushion & carpet adhesive	Details on Plans	N/A	LEED Prof
3 •		•	•	CalGreen Section 5.504.4.5	Finish mat. poll. control composite wood products shall comply with formaldehyde requirements (Table 5.504.4.5)	Details on Plans	N/A	LEED Prof
4 •	•	•	•	CalGreen Section 5.504.4.6	Finish mat. Poll. control resilient flooring systems shall comply with VOC emission limits (80%) & verification	Details on Plans	N/A	LEED Prof
5 •	•		•	CalGreen Section 5.504.5.3	Filters in mechanically ventilated buildings, provide air filtration for outside and return air comply with MERV of 8	Details on Plans	N/A	LEED Prof
6 •	-	•	•	CalGreen Section 5.504.7	Environmental Tobacco Smoke (ETS) Control where outdoor areas are provided for smoking	Details on Plans	N/A	LEED Prof
7				CalG. Div. 5.5 Section 5.505	ENVIRONMENTAL QUALITY (Indoor Moisture Control):			
8 •	•	•	•	CalGreen Section 5.505.1	Indoor moisture control	Details on Plans	A3.1	LEED Prof
9				CalG. Div. 5.5 Section 5.506	ENVIRONMENTAL QUALITY (Indoor Air Quality 5.506):			
0 •			•	CalGreen Section 5.506.1	Outside air delivery for mechanically or naturally ventilated spaces	Details on Plans	MECH	LEED Prof
1 •	•	•	•	CalGreen Section 5.506.2	Carbon dioxide (CO2) monitoring for buildings or additions equipped with demand control ventilation	Details on Plans	MECH	LEED Prof
2	59530		100	CalGreen Division 5.5 Section 5.507	ENVIRONMENTAL QUALITY (Environmental Confort):	**		100
3 •	•	•	•	CalGreen Section 5.507.4	Acoustical control employ building assemblies & components w/ sound trasmission class (STC) values	Details on Plans	N/A	LEED Prof
4 •	•	•	•	CalGreen Section 5.507.4.1	Exterior noise transmission, prescriptive method walls & roof-ceilings assemblies exposed to the noise	Details on Plans	N/A	LEED Prof
i5 •	•	•	•	CalGreen Section 5.507.4.2	Exterior noise transmission, performance method walls & roof-ceilings assemblies exposed to the noise	Details on Plans	N/A	LEED Prof
66 •	•	•	•	CalGreen Section 5.507.4.3	Interior sound transmission walls and floor ceilings assemblies separating tenants		N/A	
7				CalGreen Division 5.5 Section 5.508	ENVIRONMENTAL QUALITY (Outdoor Air Quality):			
88 •	•	•	•	CalGreen Section 5.508.1 to 5.508.1.2	Ozone depletion and greenhouse gas reductions installation of HVAC and fire supression equipment shall comply w/ section 5.508.1.1 and 5.508.1.2	Details on Plans	N/A	LEED Prof
69 •	•		•	CalGreen Section 5.508.2	Supermarket refrigerant leak reduction for new commercial refrigeration system installed in retail food stores with ≥ 8,000 square feet of conditioned area. New refrigeration system include both new facilities and replacement of existing refrigeration systems in existing facilities.	Details on Plans	N/A	LEED Prof

[1] 20% water reduction if replacement of plumbing fixtures, only within the area of alteration. See "SECTION TO BE COMPLETED AFTER CONSTRUCTION" below.

OWNER ACKNOWLEDGEMENT

This project is required to comply with the State California Green Building Code (T24, Part 11) and the City of Mountain View Green Building Code. I, the property owner / legal representative, acknowledge and understand the requirements and penalties for noncompliance. I am responsible for all activities performed by design team members, contractors and subcontractors in meeting the requirements. I also understand that my project may be subject to an energy or water performance review to assess compliance with the program after construction and during operation.

Signature (Owner) Print Full Name Lenin Tenorio

Print Name

Phone or Email lenint@google.com

SECTION TO BE COMPLETED AFTER CONSTRUCTION

In order to schedule a final building inspection with the Building Department, follow the procedures below.

At the final building inspection prepare to be submitted the following items: (Initial for each applicable item) (Initial below)

Per the California Energy Code & projects energy reports, provide the completed CF2R, CF3R forms (Certificate of Installation & Certificate of Verification).

Cutsheets or proof of installation of products and materials that meet the required VOC and formaldehyde limits. (CALGreen 5.504.4.1 to 5.504.4.3 & 5.504.4.5)

Completed Build It Green field verification checklist (when required)

Regulated by Other Mountain View City Code (MVCC)

Provide Proof of Construction Waste Diversion, contact Public Works at (650) 903-6311 I certify that:

There have been no alterations that have impacted the energy report (CF-1R form) for the project, unless the new report is provided;

All mandatory CALGreen measures noted in the checklist have been implemented unless a new checklist is provided

Signature (Owner) and Date (Sign only after construction is completed) Signature (Contractor) and Date

Print Name

rev. 6/8/2017

REMARKS					
REV DATE					
REV					

GOOGLE, INC. 1212 BORDEAUX DRIVE SUNNYVALE, CA 94089

DATE: 09/17/19 DRAWN BY: S.C. JOB NO.: SJC-19-048

EXCEPTIONS)

ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREES

PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE

SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE

OF THE DOOR AS ONE EXITS THE ROOM OR SPACE. SEC 11B-703.4.2 (SEE

APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE.

OPEN POSITION. WHERE PERMANENT IDENTIFICATION SIGNAGE IS

13. VISUAL CHARACTERS SHALL COMPLY WITH THE FOLLOWING, EXCEPT WHERE VISUAL CHARACTERS COMPLY WITH 11B-703.2 RAISED CHARACTERS AND ARE ACCOMPANIED BY BRAILLE COMPLYING WITH 11B-703.3 BRAILLE. THEY SHALL NOT BE REQUIRED TO COMPLY WITH 11B-703.5.2 THROUGH 11B-703.5.6, 11B-703.5.8 AND 11B-703.5.6: a. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. SEC 11B-703.5.1 b. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. SEC 11B-703.5.2 CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. **SEC**

11B-703.5.3 d. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". SEC 11B-703.5.4 e. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". SEC 11B-703.5.5 (SEE EXCEPTION) . VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. SEC 11B-703.5.6 (SEE EXCEPTIONS) 3. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. SEC 11B-703.5.7 n. CHARACTERS SPACING SHALL BE MEASURED BETWEEN THE TWO

CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT. SEC 11B-703.5.8 . SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT. SEC 11B-703.5.9 . TEXT SHALL BE IN A HORIZONTAL FORMAT. SEC 11B-703.5.10

14. PICTOGRAMS SHALL COMPLY WITH THE FOLLOWING: a. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. SEC 11B-703.6.1 b. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD. c. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 11B-703.2 RAISED CHARACTERS, 11B-703.3 BRAILLE AND 11B-703.4

15.SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. SEC 11B-703.7.1

INSTALLATION HEIGHT AND LOCATION. SEC 11B-703.6.3

16. SYMBOLS SHALL COMPLY WITH THE FOLLOWING: a. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 11B-703.7.2.1 ISA. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARD 595B. SEC 11B-703.7.2.1 (SEE EXCEPTION) D. DOORWAYS LEADING TO TOILET ROOMS AND BATHING ROOMS SHALL BE IDENTIFIED BY A GEOMETRIC SYMBOL COMPLYING WITH 11B-703.7.2.6 TOILET AND BATHING FACILITIES GEOMETRIC SYMBOLS. THE SYMBOL SHALL BE MOUNTED AT 58 INCHES MINIMUM AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE CENTERLINE OF THE SYMBOL. WHERE A DOOR IS PROVIDED THE SYMBOL SHALL BE MOUNTED WITHIN 1 INCH OF THE VERTICAL CENTERLINE OF THE DOOR. SEC 11B-703.7.2.6 (SEE EXCEPTION) . MEN'S TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE, 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. SEC 11B-703.7.2.6.1 d. WOMEN'S TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY A CIRCLE ¼ INCH THICK AND 12 INCHES IN DIAMETER. THE CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. SEC 11B-703.7.2.6.2 e. UNISEX TOILET AND BATHING FACILITIES SHALL BE IDENTIFIED BY A CIRCLE, ¼ INCH THICK TRIANGLE WITH A VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12-INCH DIAMETER. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. **SEC** 11B-703.7.2.6.3 EDGES OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED.

CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH. SEC

11B-703.7.2.6.4

SIGNS

1. EXCEPT BUILDING DIRECTORIES, MENUS, SEAT AND ROW DESIGNATIONS IN ASSEMBLY AREAS, OCCUPANT NAMES, BUILDING ADDRESSES, AND COMPANY NAMES AND LOGOS, NEW OR ALTERED SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH 11B-216 SIGNS AND SHALL COMPLY WITH 11B-703 SIGNS. THE ADDITION OF OR REPLACEMENT OF SIGNS SHALL NOT TRIGGER ANY ADDITIONAL PATH OF TRAVEL REQUIREMENTS. SEC 11-B216.1

TEMPORARY, 7 DAYS OR LESS, SIGNS SHALL NOT BE REQUIRED TO COMPLY WITH 11B-216 SIGNS. 3. INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH 11B-703.1 GENERAL, 11B-703.2 RAISED CHARACTERS, 11B-703.3 BRAILLE AND 11B-703.2 VISUAL CHARACTERS.

WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT INTERIOR ROOMS AND SPACES. THE PICTOGRAMS SHALL COMPLY WITH 11B-703.6 PICTOGRAMS AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH 11B-703.2 AND 11B-703.5 SEC 11B-216.2 (SEE EXCEPTION) 4. SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT INTERIOR

AND EXTERIOR SPACES AND FACILITIES OF THE SITE SHALL COMPLY WITH 11B-703.5 VISUAL CHARACTERS. **SEC 11B-216.3**

5. SIGNS FOR MEANS OF EGRESS SHALL COMPLY WITH 11B-216.4 MEANS O EGRESS: a. SIGNS REQUIRED BY CHAPTER 10. SECTION 1011.4 AT DOORS TO DOORS AT EXIT PASSAGEWAYS, EXIT DISCHARGE, AND EXIT STAIRWAYS SHALL BE IDENTIFIED BY TACTILE SIGNS COMPLYING COMPLY WITH 11B-703.1 GENERAL, 11B-703.2 RAISED CHARACTERS, 11B-703.3 BRAILLE AND 11B-703. VISUAL CHARACTERS SEC 11B-216.4.1 b. SIGNS REQUIRED BY SECTION 10003.2 13.5.4 OF THE INTERNATIONAL

BUILDING CODE (2000 EDITION) OR SECTION 1007.6.4 OF THE INTERNATIONAL

BUILDING CODE (2003 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1) CHAPTER 10, SECTION 1007.1 TO PROVIDE INSTRUCTIONS IN AREA OF REFUGE SHALL COMPLY WITH 11B-703.5 VISUAL CHARACTERS. SIGNS REQUIRED BY CHAPTER 10, SECTION 1007.9 AT DOORS TO AREAS OF REFUGE AND EXTERIOR AREAS FOR ASSISTED RESCUE SHALL COMPLY WITH 11B-703.3 BRAILLE AND 11B-703.5 VISUAL CHARACTERS AND INCLUDE AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) COMPLYING WITH 11B-703.7.2.1 ISA. SEC 11B-216.4.2 c. SIGNS REQUIRED BY SECTION 1003.2.13.6 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1007.7 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) (INCORPORATED BY REFERENCE, SEE "REFERENCED STANDARDS" IN CHAPTER 1) CHAPTER 10, SECTION 1007.1 TO PROVIDE DIRECTIONS TO ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 11B-703.5 VISUAL CHARACTERS. SEC 11B-216.4.3

3. PARKING SPACES COMPLYING WITH 11B-502 PARKING SPACES SHALL B IDENTIFIED BY SIGNS COMPLYING WITH 11B-502.6 IDENTIFICATION. SEC 11B-216.5

IN EXISTING BUILDINGS AND FACILITIES WHERE NOT ALL ENTRANCES COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES, COMPLIANT ENTRANCES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA. DIRECTIONAL SIGNS COMPLYING WITH 11B-703.5 VISUAL CHARACTERS THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 11B-404 SHALL B PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 11B-404 DOORS, DOORWAYS. AND GATES. DIRECTIONAL SIGNS COMPLYING WITH 11B-703.5 VISUAL CHARACTERS, INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA, INDICATING THE ACCESSIBLE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE SHALL BE PROVIDED AT JUNCTIONS WHEN THE ACCESSIBLE ROUTE DIVERGES FROM THE REGULAR CIRCULATION PATH SEC 11B-216.6 (SEE EXCEPTIONS)

. DOORWAYS LEADING TO TOILET ROOMS AND BATHING ROOMS COMPLYING WITH 11B-603 TOILET AND BATHING ROOMS SHALL BE IDENTIFIED BY A GEOMETRIC SYMBOL COMPLYING WITH 11B-703.7.2.6 TOILE AND BATHING ROOM GEOMETRIC SYMBOLS. WHERE EXISTING TOILET ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 11B-703.5 VISUAL CHARACTERS AND SHALL INCLUDE THE INTERNATIONAL SYMBOLS OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA. WHERE EXISTING TOILE ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 11B- TOILET AND BATHING ROOMS. THE TOILET ROOMS OR BATHING ROOMS COMPLYING WITH B- TOILET AND BATHING ROOMS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.2.1 ISA. WHERE CLUSTERED SINGLE USER TOILET ROOMS OR BATHING FACILITIES ARE PERMITTED TO USE EXCEPTIONS TO 11B-213.2 TOILET AND BATHING ROOMS, TOILET ROOMS OR BATHING FACILITIES COMPLYING WITH 11B-603 TOILET AND BATHING ROOMS. EXISTING BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC TOILET ROOMS OR BATHING ROOMS FOR PUBLIC US THAT COMPLY WITH THESE BUILDING STANDARDS SHALL HAVE THE LOCATION OF AND THE DIRECTIONS TO THESE ROOMS POSTED IN OR NEAR THE BUILDING LOBBY OR ENTRANCE ON A SIGN COMPLYING WITH 11B-703.5 VISUAL CHARACTERS, INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.2.1 ISA SEC 11B-216.8

9. SIGNS SHALL COMPLY WITH 11B-703 SIGNS. WHERE BOTH VISUALS AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED SEC 11B-703.1 a SIGNS AS SPECIFIED IN SECTION 11B-703 SIGNS, OR IN OTHER SECTIONS OF THIS CODE, WHEN INCLUDED IN THE CONSTRUCTION OF NEW BUILDING OR FACILITIES, OR WHEN INCLUDED, ALTERED OR REPLACED DUE TO ADDITIONS, ALTERATIONS OR RENOVATIONS TO EXISTING BUILDINGS OR FACILITIES, AND WHEN A PERMIT IS REQUIRED, SHALL COMPLY WITH 11B-703.1.1.1 PLAN REVIEW AND 11B-703.1.1.2 INSPECTION. SEC 11B-703.1.1 b. PLANS, SPECIFICATIONS OR OTHER INFORMATION INDICATING COMPANIES WITH THESE REGULATIONS SHALL BE SUBMITTED TO THE ENFORCING AGENCY FOR REVIEW AND APPROVAL. SEC 11B-703.1.1.1 SIGNS AND IDENTIFICATION DEVICES SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY PRIOR TO THI ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY PER CHAPTER 1, DIVISION II, SECTION 111, OR FINAL APPROVAL WHERE NO CERTIFICATE OF OCCUPANCY IS ISSUED. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO. VERIFICATION THAT BRAILLE DOTS AND CELLS ARE PROPERLY SPACED AND THE SIZE, PROPORTION AND TYPE OF RAISED CHARACTERS ARE IN COMPLIANCE WITH THESE REGULATIONS. **SEC 11B-703.1.1.2**

0. RAISED CHARACTERS SHALL COMPLY WITH 11B-703.2 RAISED CHARACTERS AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 11B-703.3 BRAILLE. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 11B-703.4 INSTALLATION HEIGHT AND LOCATION. SEC a. RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR

BACKGROUND. SEC 11B-703.2.1

b. CHARACTERS SHALL BE UPPERCASE. **SEC 11B-703.2.2** C. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. SEC 11B-703.2.3 d. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". SEC 11B-703.2.4 e. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I" SEC 11B-703.2.5 STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. SEC 11B-703.2.6 a. CHARACTERS SPACING SHALL BE MEASURED BETWEEN THE TWO LOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS,

SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM. SEC 11B-703.2.7 h. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 17 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT. SEC 11B-703.2.8 . TEXT SHALL BE IN A HORIZONTAL FORMAT. SEC 11B-703.2.9

11B-703.3 BRAILLE AND 11B-703.4 INSTALLATION HEIGHT AND LOCATION. SEC 11B-703.3 a. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES. PROPER NOUNS AND NAMES. INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. SEC 11B-703.3.1 BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT. FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED. BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS. SEC 11B-703.3.2 (SEE EXCEPTION)

1. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH

FLOOR OR GROUND SURFACE NOTES CONT.

34. GUARDRAILS OR OTHER BARRIERS WITH A LEADING EDGE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE ON CIRCULATION PATHS IS LESS THAN 80 INCHES HIGH. SEC. 11B-307.4, FIG 11B-307.4

5. ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED WITHIN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. SEC. 11B-308.1.1

36. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED WITHIN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. FIG. 11B-308.1.2

7. HIGH FORWARD REACH THAT IS UNOBSTRUCTED SHALL BE 48 INCHES

MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. SEC. 11B-308.2.1, FIG 11B-308.2.1 8. HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES OR LESS AND 44 INCHES MAXIMUM WHERE TH REACH DEPTH EXCEEDS 20 INCHES. HIGH FORWARD REACH SHALL NOT EXCEED 25 INCHES IN DEPTH. SEC. 11B-308.2.2, FIG. 11B-308.2.2

39. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. SEC. 11B-308.2.2

40. HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR WHERE TH SIDE REACH IS UNOBSTRUCTED OR THE DEPTH OF ANY OBSTRUCTION DOES NOT EXCEED 10 INCHES. SEC. 11B-308.3.1, FIG 11B-308.3.1

. HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND WHERE THE HIGH SIDE REACH IS OVER AN OBSTRUCTION MORE THAN 10 INCHES BUT NOT MORE THAN 24 INCHES IN DEPTH. SEC. 11B-308.3.2, FIG 11B-308.3.2

42. OBSTRUCTIONS FOR HIGH SIDE REACH SHALL NOT EXCEED 34 INCHES I HEIGHT AND 24 INCHES IN DEPTH. SEC. 11B-308.3.2, FIG 11B-308.3.2 43. OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL BE PROVIDED A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 11B-305 CLEAR FLOOR OR GROUND SPACE AND BE PLACED WITHIN ONE OR MORE OF THE REACH

44. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE POUNDS MAXIMUM.

RANGES SPECIFIED IN 11B-308 REACH RANGES. SEC. 11B-309.2

5. ELEMENTS THAT ARE EXEMPT FROM ALL REQUIREMENTS FOR OPERABLE PARTS REQUIREMENTS INCLUDE ELECTRICAL OR COMMUNICATION RECEPTACLES SERVING A DEDICATED USE: FLOOR LECTRICAL RECEPTACLES; HVAC DIFFUSERS, EXERCISE MACHINES AND EXERCISE EQUIPMENT AND THOSE OPERABLE PARTS INTENDED FOR USE ONLY BY SERVICE OR MAINTENANCE PERSONNEL. SEC. 11B-205.1

46. EXCEPT FOR LIGHT SWITCHES, WHERE REDUNDANT CONTROLS ARE PROVIDED FOR A SINGLE ELEMENT. ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-309 OPERABLE PARTS. SEC. 11B-205.1

KITCHENS, KITCHENETTES AND WET BARS

DIMENSION 40 INCHES MINIMUM CLEARANCE BETWEEN COUNTERS. APPLIANCES, OR CABINETS IN PASS THROUGH KITCHENS. PASS THROUGH KITCHENS SHALL HAVE TWO ENTRIES. SEC 11B-804.2.1

2. DIMENSION 60 INCH MINIMUM CLEARANCE BETWEEN OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS IN U-SHAPED KITCHENS. SEC 11B-804.2.2

B. IN RESIDENTIAL DWELLING UNITS REQUIRED TO COMPLY WITH 11B-809 RESIDENTIAL DWELLING UNITS. AT LEAST ONE 30 INCH WIDE MINIMUM SECTION OF COUNTER SHALL PROVIDE A KITCHEN WORK SURFACE THAT COMPLIES WITH THE FOLLOWING: **SEC 11B-804.3**

a. A 30 INCH WIDE BY 48 INCH DEEP FORWARD APPROACH CLEAR FLOOR SPACE SHALL BE PROVIDED. THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE KITCHEN WORK SURFACE AND SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 11B-306 KNEE AND TOE CLEARANCE b. EXCEPTION: CABINETRY SHALL BE PERMITTED PROVIDED ALL OF THE FOLLOWING ARE MET THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE KITCHEN WORK SURFACE; ii. THE FINISH FLOOR EXTENDS UNDER THE CABINETRY: AND iii. THE WALLS BEHIND AND SURROUNDING THE CABINETRY ARE

THE KITCHEN WORK SURFACE SHALL BE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. d. EXCEPTION: A COUNTER THAT IS ADJUSTABLE TO PROVIDE A KITCHEN

WORK SURFACE AT VARIABLE HEIGHTS, 29 INCHES MINIMUM AND 36 INCHES MAXIMUM, SHALL BE PERMITTED. e. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE WORK SURFACES COUNTERS.

4. SINKS SHALL COMPLY WITH 11B-606 LAVATORIES AND SINKS. SEC

5. AT LEAST 50 PERCENT OF SHELF SPACE IN STORAGE FACILITIES SHALL COMPLY WITH 11B-811 STORAGE. SEC 11B-804.5 6. KITCHEN APPLIANCES SHALL COMPLY WITH THE FOLLOWING: SEC

a. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 11B-305 CLEAR FLOOR OR GROUND SPACE SHALL BE PROVIDED AT EACH KITCHEN APPLIANCE. CLEAR FLOOR OR GROUND SPACES SHALL BE PERMITTED TO

b. ALL APPLIANCE CONTROLS SHALL COMPLY WITH 11B-309 OPERABLE PARTS. (SEE EXCEPTIONS)

CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED ADJACENT TO THE DISHWASHER DOOR. THE DISHWASHER DOOR, IN THE OPEN POSITION SHALL NOT OBSTRUCT THE CLEAR FLOOR OR GROUND SPACE FOR THE DISHWASHER OR THE SINK.

d. AT THE RANGE OR COOKTOP, WHERE A FORWARD APPROACH IS PROVIDED, THE CLEAR FLOOR OR GROUND SPACE SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 11B-306. WHERE KNEE AND TOE SPACE IS PROVIDED. THE UNDERSIDE OF THE RANGE OR COOKTOP SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PREVENT BURNS. ABRASIONS, OR ELECTRICAL SHOCK. THE LOCATION OF CONTROLS SHALL NOT REQUIRE REACHING ACROSS BURNERS.

e. OVENS SHALL COMPLY WITH THE FOLLOWING: i.SIDE-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 11B-804.3 KITCHEN AND WORK SURFACES POSITIONED ADJACENT TO ONE SIDE OF THE OVEN DOOR ii. BOTTOM-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 11B-804.3 KITCHEN AND WORK SURFACES POSITIONED ADJACENT TO ONE SIDE OF THE DOOR iii. OVENS SHALL HAVE CONTROLS ON FRONT PANELS.

COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50 PERCENT OF THE FREEZER SPACE 54 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A PARALLEL REFRIGERATOR/FREEZER WITH THE CENTERLINE OF THE CLEAR FLOOR OR GROUND SPACE OFFSET 24 INCHES MAXIMUM FROM THE CENTERLINE OF THE DEDICATED SPACE.

FLOOR OR GROUND SURFACE NOTES

FLOOR AND GROUND SURFACES SHALL BE STABLE. FIRM AND SLIP RESISTANT. SEC. 11B-302.1

CARPET OR CARPET TILT E SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD. CARPE OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" MAX SEC. 11B-302.2, FIG11B-302.2

EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 11B-303 CHANGES IN LEVELS. SE

SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. SEC. 11B-302.3, FIG. 11B-302.3 VERTICAL CHANGES IN LEVEL FOR FLOOR OR GROUND SURFACES MAY E /4 INCH HIGH MAXIMUM AND WITHOUT EDGE TREATMENT. CHANGES IN

OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAG

OF A SPHERE MORE THAN 1/2 INCH IN DIAMETER. ELONGATED OPENINGS

EVEL GREATER THAN 1/4 INCH AND NOT EXCEEDING 1/2 INCH IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. SEC. 11B-303, 1B-303.2 AND 11B-303.3 CHANGES IN LEVEL GREATER THAN 1/2 INCH IN HEIGHT SHALL BE RAMPE

ABRUPT CHANGES IN LEVEL EXCEEDING 4 INCHES IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING SURBS AT LEAST 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK URFACE. EXCEPTIONS: 1 - A WARNING CURB IS NOT REQUIRED BETWEEN WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY. 2 - A VARNING CURB IS NOT REQUIRED WHEN A GUARD OR HANDRAIL IS PROVIDED WITH A GUIDE RAIL CENTERED 2 INCHES MIN. AND 4 INCHES MAX ABOVE THE SURFACE OF THE WALK OR SIDEWALK. (CBC 2016 11B-303.5)

AND SHALL COMPLY WITH SECTION 11B-405 OR 11B-406. (CBC 2016 11B-303.4

URNING SPACES TURNING SPACES SHALL COMPLY WITH SECTION 11B-304. FLOOR OR GROUND SURFACES OF A TURNING SPACE SHALL COMPLUY WITH SECITON 11B-302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT

TEEPER THAN 1:48 SHALL BE PERMITTED. (CBC 2016 11B-304.2) CIRCULAR TURNING SPACES SHALL BE A SPACE OF 60 INCHES DIAMETER IINIMUM AND MAY INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 1B-306 KNEE AND TOE CLEARANCE. SEC11B-304.3.1

0.T-SHAPED TURNING SPACES SHALL BE A T-SHAPED SPACE WITH A 60 INCI SQUARE MINIMUM WITH ARMS AND A BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. SEC. 11B-304.3.2. FIG. 11B-304.3.2 1.T-SHAPED TURNING SPACES MAY INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 11B-306 KNEE AND TOE CLEARANCE ONLY AT THE END OF ITHER THE BASE OR ONE ARM. SEC. 11B-304.3.2

CLEAR FLOOR OR GROUND SPACE 2.CLEAR FLOOR OR GROUND SPACES SHALL MEET THE REQUIREMENTS OF 1B-302 FLOOR OR GROUND SURFACES AND SHALL NOT HAVE CHANGES IN EVEL EXCEPT FOR SLOPES NOT STEEPER THAN 1:48 (2.083%). SEC. 11B-305 3.CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 48

NCHES MINIMUM. SEC. 11B-305.3, FIG. 11B-305.3 4.ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAF LOOR OR GROUND SPACE. SEC. 11B-305.6

5.CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT UNLESS OTHERWISE SPECIFIED. SEC. 11B-305.5, FIG. 11B-305.5 6.CLEAR FLOOR OR GROUND SPACE MAY INCLUDE KNEE AND TOE

LEARANCE COMPLYING WITH 11B-306 KNEE AND TOE CLEARANCE UNLESS

THERWISE SPECIFIED. SEC. 11B-305.4

THER ELEMENTS. SEC. 11B-306.2.2

7.ALCOVES SHALL BE 36 INCHES WIDE MINIMUM IF THEIR DEPTH EXCEEDS 24 INCHES AND THEY PROVIDE CLEAR FLOOR OR GROUND SPACE FOR A FORWARD APPROACH. SEC 11B-305.7, FIG. 11B-305.7.1

8.ALCOVES SHALL BE 60 INCHES WIDE MINIMUM IF THEIR DEPTH EXCEEDS 5 INCHES AND THEY PROVIDE CLEAR FLOOR OR GROUND SPACE FOR A ARALLEL APPROACH. SEC. 11B-305.7, FIG. 11B-305.7.2

KNEE AND TOE CLEARANCE 19. FOR LAVATORIES AND BUILT-IN DINING AND WORK SURFACES REQUIRED O BE ACCESSIBLE, TOE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES N WIDTH AND 9 INCHES IN HEIGHT ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF 19 INCHES MINIMUM. SEC. 11B--306.2.1

).FOR ELEMENTS REQUIRED TO PROVIDE TOE CLEARANCE OTHER THAN AVATORIES AND BUILT-IN DINING AND WORK SURFACES, TOE CLEARANCE. HALL BE PROVIDED THAT IS 30 INCHES IN WIDTH AND 9 INCHES IN HEIGHT ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF 17 INCHES MINIMUN UNDER ELEMENTS REQUIRED TO BE ACCESSIBLE. SEC 11B-306.2.3

1.SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE. SEC. 11B-306.2.4 2.TOE CLEARANCE SHALL EXTEND 19 INCHES MAXIMUM UNDER LAVATORI FOR TOILET AND BATHING FACILITIES AND 25 INCHES MAXIMUM UNDER

3.AT LAVATORIES IN TOILET AND BATHING FACILITIES, KNEE CLEARANCE HALL BE PROVIDED THAT IS 30 INCHES IN WIDTH FOR A DEPTH OF 11 INCHES AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND AND FOR A DEPTH OF 8 NCHES AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND INCREASING T 9 INCHES HIGH MINIMUM ABOVE THE FINISH FLOOR OR GROUND AT THE FRONT EDGE OF A COUNTER WITH A BUILT-IN LAVATORY OR AT THE FRONT EDGE OF A WALL-MOUNTED LAVATORY FIXTURE. SEC. 11B-306.3.3, FIG.

I.AT DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE, KNEE LEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WIDTH AT 27 INCHES ABOVE THE FINISH FLOOR GROUND FOR A DEPTH OF AT LEAST 19 INCHES. SEC. 11B-306.3

5.FOR ELEMENTS REQUIRED TO PROVIDE KNEE CLEARANCE EXCEPT AVATORIES IN TOILET AND BATHING FACILITIES AND DINING AND WORK SURFACES, KNEE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WIDTH FOR A DEPTH OF 11 INCHES AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND AND FOR A DEPTH OF 8 INCHES AT 27 INCHES ABOVE THE FINISH

6.EXCEPT FOR DINING AND WORK SURFACES, KNEE CLEARANCE MAY REDUCE AT A RATE OF 1 INCH I DEPTH FOR EACH 6 INCHES BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND. EC.11B-306.3.4, FIG 11B-306.3

LOOR OR GROUND. SEC. 11B-306.3, FIG. 11B-306.3(A)

7.KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND. SEC. 11B-306.3.2

PROTRUDING OBJECTS 8.EXCEPT FOR HANDRAILS. OBJECTS WITH LEADING MORE THAN 27 INCHES AND LESS THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE NO THAN 4 INCHES HORIZONTALLY INTO THE CIRCULATION PATH. HANDRAILS MAY PROTRUDE 41/2 INCHES MAXIMUM SEC.11B-307.2, FIG

P.FREE-STANDING OBJECTS MOUNTED ON POST OR PYLONS SHALL OVERHANG CIRCULATION PATHS NO MORE THAN 12 INCHES WHEN LOCATED FROM 27 TO 80 INCHES ABOVE, THE FINISH FLOOR OR GROUND. SEC. 11B-307.3, FIG 11B-307.3(a)

0.PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES. SEC. 11B-307.5

LOWEST EDGE OF A SIGN OR OTHER OBSTRUCTION, WHEN MOUNTED ETWEEN POSTS OR PYLONS SEPARATED WITH A CLEAR DISTANCE REATER THAN 12 INCHES, SHALL BE LESS THAN 27 INCHES OR MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND. SEC 11B-307.3, FIG 11B-307 3(b)

2. EDGE OF SIGNS OR OTHER OBJECTS, WHEN MOUNTED ON POSTS OR

PYLONS WITH THEIR BOTTOM EDGES LESS THAN 80 INCHES ABOVE THE

FLOOR OR GROUND SURFACE, SHALL BE ROUNDED OR EASED AND THE CORNERS SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH. SEC. 11B-307.3.1 33. VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MIN ABOVE THE FINISH FLOOR OR GROUND. (CBC 2016 11B-307.4)

DOORS, DOORWAYS AND GATES

DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES

MINIMUM CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHA

DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL

INCHES ABOVE THE FINISH FLOOR OR GROUND, PROJECTIONS INTO THE

CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE

FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES. SEC. 11B-404.2.3

MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL

DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES,

MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE

AN INTERIOR DOORWAY, OR WITHIN 24 INCHES OF THE LATCH SIDE OF AN

PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES OF THE LATCH SIDE

EXTERIOR DOORWAY, PROJECTS MORE THAN 8 INCHES BEYOND THE FACE

OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR

CLEARANCE SHALL COMPLY WITH 11B-302 FLOOR OR GROUND SURFACES.

THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH HIGH

MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS

SHALL COMPLY WITH 11B-302 FLOOR OR GROUND SURFACES AND 11B-303

AND GATES IN SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF

PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES

MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS

ARE IN THE FULLY OPEN POSITIONS, OPERATING HARDWARE SHALL BE

a. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT

FROM AN OPEN POSITION OF 90 DEGREES. THE TIME REQUIRED TO MOVE

THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS

b. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM

THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO

13. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER

c. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY

THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. SEC. 11B-404.2.8.2

THAN FIRE DOORS SHALL BE AS FOLLOWS: SEC 11B-404.2.9

b SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM

d. EXTERIOR HINGED DOORS: 5 POUNDS MAXIMUM

a. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM

THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15

4. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE

SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR

OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE

AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY

DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATE

CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING

THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE

GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

16. FULL POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA

A156.10. LOW-ENERGY AND POWER ASSISTED DOORS SHALL COMPLY WITI

a. DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES MINIMUM

IN POWER-ON AND POWER-OFF MODES. THE MINIMUM CLEAR WIDTH FOR

UNOBSTRUCTED OPENING OF 32 INCHES WITH ONE LEAF POSITIONED AT A

b. CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY

AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING

c. THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY

d. DOORS IN SERIES AND GATES IN SERIES SHALL COMPLY WITH 11B-404.2

OPERABLE PARTS. THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL

f. WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF

g. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT B

MEANS OF EGRESS, THE CLEAR BREAK OUT OPENING AT SWINGING OR

AUTOMATIC DOOR SYSTEMS IN A DOORWAY SHALL PROVIDE A CLEAR.

ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. SEC. 11B-404.3.1

AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 11B-404.2.4

e. MANUALLY OPERATED CONTROLS SHALL COMPLY WITH 11B-309

SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING. SEC.

SLIDING DOORS AND GATES SHALL BE 32 INCHES MINIMUM WHEN

WITH 11B-404.2.4 MANEUVERING CLEARANCES. CLEARANCES AT

ANSI/BHMA A156.19. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL

ADDED KICK PLATES SHALL BE CAPPED. SEC. 11B-404.2.10

COMPLY WITH THE FOLLOWING: SEC. 11B-404.3

MANEUVERING CLEARANCES. SEC. 11B-404.3.2

WITH 11B-404.2.5 THRESHOLDS. SEC. 11B-404.3.3

DOORS IN SERIES AND GATES IN SERIES. SEC. 11B-404.3

OPERATED IN EMERGENCY MODE. SEC. 11B-404.3.6

PART OF AN ACCESSIBLE ROUTE. SEC. 11B-404.307

SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER

FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH

DOORS OR GATES SWINGING INTO THE SPACE. SEC. 11B-404.2.6

EXPOSED AND USABLE FROM BOTH SIDES. SEC. 11B-404.2.7

12. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH THE

FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING

CHANGES IN LEVEL ARE NOT PERMITTED AT DOOR LANDINGS. SEC.

COMPLY WITH 11B-404.2.4 MANEUVERING CLEARANCES. MANEUVERING

REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. SEC 11B-404.2.4.

SWINGING DOORS AND GATES SHALL HAVE MANEUVERING

SLIDING DOORS. OR FOLDING DOORS SHALL HAVE MANEUVERING

CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.1

CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.2.

GATE. SEC. 11B-404.2.4.3

CHANGES IN LEVEL. SEC. 11B-404.2.5

MINIMUM SEC 11B-404 2 8 1

SEC. 11B-404.2.11

11B-404.3.5

11B-404.2.4.4

PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO

MANEUVERING CLEARANCES. SEC. 11B-404.2.2

GENERAL NOTES

CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS . PERPENDICULAR RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT STEEPER THAN 1:12 (8.33%). SEC. 11B-406.2.1

BE PART OF AN ACCESSIBLE ROUTE. SEC. 11B-402.2.1 AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 11B-404.2.3 CLEAR WIDTH AND 11B-404.2.4

2. FOR PERPENDICULAR RAMPS, WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10. SEC. 11B-406.2, FIG. 11B-406.2.2 THE RUNNING SLOPE OF THE CURB RAMP SEGMENTS SHALL BE IN-LIN WITH THE DIRECTION OF SIDEWALK TRAVEL. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33%). SEC 11B-406.3.1, FIG. BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH TH 11B-406.3.2

1. A TURNING SPACE 48 INCHES MINIMUM BY 48 INCHES MINIMUM SHALL E PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 PROVIDED AT THE BOTTOM OF THE CURB RAMP. THE SLOPE OF THE URNING SPACE IN ALL DIRECTIONS SHALL BE 1:48 MAXIMUM (2083%). SEC 11B-406.3.2

. BLENDED TRANSITION RAMPS SHALL HAVE A RUNNING SLOPE NOT TEEPER THAN 1:20 (5%). SEC. 11B-406.4.1 CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE

> EXCLUDING ANY FLARED SIDES. SEC. 11B-406.5.1 7. THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 48 INCHES MINIMUM. SEC. 11B-406.5.2

CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS,

LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANE

PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED

LANDING SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND BLENDED TRANSITIONS (PARALLEL CURB RAMPS SHALL NOT BE REQUIRE O COMPLY). THE LANDING CLEAR LENGTH SHALL BE 48 INCHES MINIMUM THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP EXCLUDING ANY FLARED SIDES OR THE BLENDED TRANSITION. EADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL DIRECTION SHALL BE 1:48 (2.083%) MAXIMUM. SEC. 11B-406.5.3

9. FLOOR OR GROUND SURFACES OF CURB RAMPS AND BLENDED FRANSITIONS SHALL COMPLY WITH 11B-405.4 FLOOR OR GROUND SURFACES. SEC 11B-406.5.4

O. CURBS RAMPS AND BLENDED TRANSITIONS SHALL COMPLY WITH 1B-405.10 WET CONDITIONS. 11B-406.5.5 . GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL

E PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAK

SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SPACES. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON THE CROSS SLOPE OF CURB RAMPS AND BLENDED TRANSITIONS SHAL DOORS AND GATES SHALL COMPLY WITH 11B-309.4 OPERATION. OPERABLE

BE 1:48 (2.083%) MAXIMUM. SEC. 11B-406.5.7 COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20 (5%). THE ADJACENT SURFACES AT FRANSITIONS AT CURB RAMPS TO WALK,S GUTTERS, AND STREETS SHAL

BE AT THE SAME LEVEL. SEC. 11B-406.5.8 THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. SEC.

DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS O THER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE IRECTION OF PEDESTRIAN FLOW. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM OCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED

CROSSINGS. SEC. 11B-406.5.10, FIG. 11B-406.5.10

16. CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE ALONG THE TOP OF THE CURB RAMP AT THE LEVEL SURFACE OF THE TOP LANDING AND AT THE OUTSIDE EDGES OF THE FLARED SIDES. THE GROOVED BORDER SHALL CONSIST OF A SERIES OF GROOVES 1/4 INCH WIDE BY 1/4 INCH DEEP, AT 3/4 INCH ON CENTER. (SEE EXCEPTIONS). SEC. 11B-406.5.1

17. CURB RAMPS AND BLENDED TRANSITIONS SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH 11B-705 DETECTABLE WARNING. SEC. 11B-406.5.12

18. RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. THE CLEAR WIDTH OF THE ACCESSIBLE ROUTE AT ISLANDS SHALL BE 60 INCHES WIDE MINIMUM. HERE CURB RAMPS ARE PROVIDED, THEY SHALL COMPLY WITH 11B-406 CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS. LANDINGS COMPLYING NITH 11B-406.5.3 LANDINGS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP. ISLANDS SHALL HAVE DETECTABLE WARNING COMPLYING WITH 11B-705 DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE. SEC. 11B-406.6, FIG. 11B-406.6

ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20 (5%), DOORWAY, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. SEC. 11B-402.2 THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPEI

THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2.083%). SEC. 11B-403.5.1

EXCEPT AT TURNS OR PASSING SPACES. THE CLEAR WIDTH OF VALKING SURFACES SHALL BE 36 INCHES MINIMUM. SEC. 11B-403.5.1

THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCEI WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MINIMUM AND 36 INCHES WIDE MINIMUM. SEC. 11B-403.5.1 EXCEPTION

THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING A EXCEPTION) OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MINIMUM. SEC. 1B-403.5.1. EXCEPTION 2

THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM. SEC. 11B-403.5.1. EXCEPTION 3

THE CLEAR WIDTH FOR AISLES SHALL BE 36 INCHES MINIMUM IF SERVING ELEMENTS ON ONLY ONE SIDE, AND 44 INCHES MINIMUM IF SERVING ELEMENTS ON BOTH SIDES. SEC. 11B-403.5.1 EXCEPTION 4

FURN AND 42 INCHES MINIMUM LEAVING THE TURN. SEC. 11B-403.5.2 P. FOR PASSING SPACES, AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LES THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MINIMUM BY 60 INCHES MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH 11B-304.3.2 T

.WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND A

ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42

NCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE

RUNNING SLOPES NOT STEEPER THAN 1:20 (5%) THEY SHALL COMPLY WITH HANDRAIL REQUIREMENTS OF 11B-505 HANDRAILS. SEC. 11B-403.6 . ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS, 5 FEET IN LENGTH, AT INTERVALS OF 400 FEET MAXIMUM. THE RESTING AREA SHALL BE AT LEAST AS WIDE AS THE WALK. THE SLOPE C

THE RESTING AREA IN ALL DIRECTIONS SHALL BE 1:48 (2.083%) MAXIMUM .

SHAPED SPACE WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE

EXTEND 48 INCHES MINIMUM BEYOND THE INTERSECTIONS. SEC. 11B-403.

WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH

AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE ITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS AND SIDEWALKS; AND PUBLIC RANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE. WHERE MORE THAN ONE ROUTE IS PROVIDED, AL ROUTES MUST BE ACCESSIBLE. SEC. 11B-206.2.1

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. SEC.11B-206.2.2

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY, INCLUDING MEZZANINES, WHICH ARE OTHERWISE CONNECTED BY A CIRCULATION PATH. SEC.

ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS. WHERE CIRCULATION PATHS ARE INTERIOR. REQUIRED ACCESSIBLE ROUTES SHALL ALSO BE INTERIOR, AN ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS OR OTHER SPACES USED FOR SIMILAR PURPOSES, EXCEPT AS PERMITTED BY CHAPTER 10. SEC. 11B-206.3

WATER CLOSETS AND TOILET COMPARTMENTS

THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 17 INCHES MIN. TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION. EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE COMPARTMENT SPECIFIED IN SECTION 11B-604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH. SEC. 11B-604.2

CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUN MEASURED PERPENDICULAR FROM THE REAR WALL. A MINIMUM 60 INCHES WIDE AND 48 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. SEC. 11B-604.3.1

THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHAL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP O THE SEAT. SEATS SHALL NOT BE SPRUNG THE RETURN TO A LIFTED POSITION. SEATS SHALL BE 2 INCHES HIGH MAXIMUM AND A 3 INCH HIGH SEAT SHALL BE PERMITTED ONLY IN ALTERATIONS WHERE THE EXISTING FIXTURE IS LESS THAN 15 INCHES HIGH. SEC. 11B-604.4

GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL. WHERE SEPARATE GRAB BARS ARE REQUIRED ON ADJACENT WALLS AT A COMMON MOUNTING HEIGHT. AN -SHAPED GRAB BAR MEETING THE DIMENSIONAL REQUIREMENTS OF SECTIONS 11B-604.5.1 SIDE WALL AND 11B-604.5.2 REAR WALL SHALL BE PERMITTED. SEC. 11B-604.5

THE SIDE WALL GRAB BARS SHALL BE 42 INCHES LONG MINIMUM,

OCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54

INCHES MINIMUM FROM THE REAR WALL WITH THE FRONT END POSITIONE 24 INCHES MINIMUM IN FRONT OF THE WATER CLOSET. SEC. 11B-604.5.1 THE REAR GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEN FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE. SEC. 11B-604.5.2. (SEE

FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTIONS 11B-309.4 OPERATIONS EXCEPT THEY SHALL BE LOCATED 44 INCHES MAXIMUM ABOV THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENT COMPLYING WITH SECTION 11B-604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS. SEC. 11B-604.6

TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-309.4 OPERATION AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR. 19 INCHES MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. SEC. 11B-604.7

WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL MEET THE REQUIREMENTS OF SECTIONS 11B-604.8.1 WHEELCHAIR ACCESSIBLE COMPARTMENTS AND 11B-604.8.3 COAT HOOKS AND SHELVES. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH SECTION 11B-603 TOILET AND BATHING ROOMS. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH SECTIONS 11B-604.8.2. AMBULATORY ACCESSIBLE COMPARTMENTS AND 11B-604.8.3 COAT HOOKS AND SHELVES. SEC. 11B-604.8

. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURE PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES WIDE MINIMUN MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. SEC. 11B-604.8.1.1

. IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH AN IN-SWING DOOR, A MINIMUM 60 INCHES WIDE BY 36 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE CLEARANCE REQUIRED IN SECTION 11B-604.8.1.1 WHEELCHAIR ACCESSIBLE COMPARTMENT SIZE. SEC 11B-604.8.1.1.1, FIGURES 11B-604.81.1.2(b) AND 11B-604.8.1.1.3(b) . IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH A SIDE-OPENING

DOOR, EITHER IN-SWINGING OR OUT-SWINGING A MINIMUM 60 INCHES WIDE

AND 60 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. SEC. 11B-604.8.1.1.2, FIG 11B-604.8.1.1.2 . IN A WHEEL CHAIR ACCESSIBLE COMPARTMENT WITH END-OPENING DOOR (FACING WATER CLOSET), EITHER IN-SWINGING OR OUT-SWINGING, A MINIMUM 60 INCHES WIDE AND 48 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. SEC. 11B-604.8.1.1

FIG. 11B-604.8.1.1.3

SELF-CLOSING. SEC 11B-604.8.1.2

I. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTIONS 11B-404 DOORS, DOORWAYS, AND GATES EXCEP THAT IF THE APPROACH IS FROM THE PUSH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 48 INCHES MINIMUM MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION. DOOR SHALL BE LOCATED IN FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. SEC. 11B-604.8.1.2

WHERE TOILET COMPARTMENT DOORS ARE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE FRONT PARTITION AND THE DOOR SHALL BE

A DOOR PULL COMPLYING WITH SECTION 11B-404.2.7 DOOR AND GATE HARDWARE SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. DOOR SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS MAY SWING INTO THAT PORTION OF THE MANEUVERING SPACE WHICH DOES NOT OVERLAP THE CLEARANCE REQUIRED AT A WATER CLOSET. SEC. 11B-604.8.1.2 (SEE

. AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES DEEP MINIMUM BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. PARTITION COMPONENTS AT TOE LEARANCE SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES MINIMUM ABOVE THE FINISH FLOOR. SEC.

3. GRAB BARS SHALL COMPLY WITH SECTION 11B-609 GRAB BARS. A SIDE WALL GRAB BAR COMPLYING WITH SECTION 11B-604.5.1 SIDE WALL SHALL BE PROVIDED AND SHALL BE LOCATED ON THE WALL CLOSEST TO THE WATER CLOSET. IN ADDITION, A REAR-WALL GRAB BAR COMPLYING WITH SECTION 11B-604.5.2 REAR WALL SHALL BE PROVIDED. WHERE SEPARATE GRAB BARS ARE REQUIRED ON ADJACENT WALLS AT A COMMON MOUNTING HEIGHT. AN -SHAPED GRAB BAR MEETING THE DIMENSIONAL REQUIREMENTS OF SECTIONS 11B-604.5.1 SIDE WALL AND 11B-604.5.2 REAR WALL SHALL BE PERMITTED. SEC. 11B-604.8.1.5

). URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13-1/2 INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. SEC.

). A CLEAR FLOOR SPACE OR GROUND SPACE COMPLYING WITH SECTION 1B-305 CLEAR FLOOR OR GROUND SPACE POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. SEC. 11B-605.3 I. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND

OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTIONS 1B-3090OPERABLE PARTS EXCEPT THAT THE FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES ABOVE THE FINISH FLOOR. SEC. 11B-605.4

22. LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606 LAVATORIES AND SINKS. SEC. 11B-606.1 23. FOR LAVATORIES AND SINKS, A CLEAR FLOOR SPACE COMPLYING WITH

SECTION 11B-306 KNEE AND TOE CLEARANCE SHALL BE PROVIDED. SEC. 24. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THI

SECTION 11B-305 CLEAR FLOOR OR GROUND SURFACES, POSITIONED FOR A

HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. SEC. 11B-606.3

GRAB BARS

GRAB BARS WITH CIRCULAR CROSS SECTION IN TOILET FACILITIES AND BATHING FACILITIES SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM. SEC. 11B-609.2.1

GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSIONS OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM. SEC.

SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM. SEC. 11B-609.3

> GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION. 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE COMPLYING WITH SECTION 11B-604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POTION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. SEC. 11B-609.4

EXIT SIGNS NOTES

1008.1.9 FOR EXCEPTIONS.

EGRESS IS OCCUPIED.

. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINED. (CBC 2016

INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 924 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CHAPTER 27. (CBC 2016 1013.5)

3. EXIT SIGNS SHALL BE ILLUMINATED A T ALL TIMES. (CBC 2016 1013.5) EXTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013.6.1 THROUGH 1013.6.3 (CBC 2016 1013.6)

5. THE FACE OF AN EXIT SIGN ILLUMINATED FROM AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOTCANDLES (54 LUX) (CBC 2016 1013.6.2)

6. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM

THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (CBC 2016 1013.6.3) . EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. SEE

B. DOOR HANDLES, LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND A MAX. 48" ABOVE THE FINISHED FLOOR.

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.

10. ALL EGRESS DOOR OPERATION SHALL ALSO COMPLY WITH SECTION 1008.1.9- 1008.1.12 1. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE

2. $\,$ THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN $\,$ 1 FOOT-CANDLE AT THE WALKING SURFACE. 13. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL

NORMALLY BE PROVIDED BY THE PREMISES ELECTRICAL SUPPLY. IN THE

EVENT OF POWER SUPPLY FAILURE. AN EMERGENCY ELECTRICAL SYSTEM

SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:

REQUIRED TO HAVE TWO OR MORE EXITS.

ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF

a. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS

REQUIRED TO HAVE TWO OR MORE EXITS. c. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS

b. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS

d. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1027.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS. e. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.5, FOR EXIT

DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE

14.THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.

15.EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMU-TO-MINIMUM

ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.

CONCRETE SLAB NOTE

MANUFACTURER'S SPECIFICATIONS.

THE FLOOR SHALL BE CONCRETE SLAB ON GRADE AND SHALL BE A MINIMUM ${}^{
m I}$ OF FOUR-INCH (4") (FIVE-INCH (5") AT WATER TREATMENT ROOM) THICK WITH \mid MINIMUM CONCRETE STRENGTH OF 3,000-PSI. IT WILL INCLUDE ONE OF THE FOLLOWING. WIRE MESH OR FIBER MESH, AND/OR REBAR REINFORCEMENT OVER A 10 MILL MINIMUM VAPOR BARRIER (STEGO WRAP OR EQUAL) AND GRANULAR FILL PER LESSOR'S SOILS AND/OR STRUCTURAL ENGINEERING TEAM BASED ON SOIL CONDITIONS AND REPORT FROM THE SOILS ENGINEER. FINISH FLOOR ELEVATION TO BE A MINIMUM OF 8" ABOVE FINISH GRADE. THE SLAB SHALL INCLUDE PROPER EXPANSION CONTROL JOINTS. FLOOR SHALL BE LEVEL (1/8" WITH 10' OF RUN), SMOOTH, BROOM CLEAN WITH NO ADHESIVE RESIDUES, IN A CONDITION THAT IS ACCEPTABLE O INSTALL FLOOR COVERINGS IN ACCORDANCE WITH THE FLOORING

DETECTABLE WARNING AND DETECTABLE DIRECTIONAL

. DETECTABLE WARNINGS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIN 11B-247.1 AND SHALL COMPLY WITH SECTION 11B-705.1 (CBC 2016 11B-247.1.1)

IF A WALK CROSSES OR ADJOINS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS. RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING COMPLYING WITH SECTIONS 11B-705.1.1 AND 11B-705.1.2.5 (CBC

CURB RAMPS SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH

SECTIONS 11B-705.1.1 AND 11B-705.1.2.2 (CBC 2016 11B-247.1.2.2) AND SEE

2016 11B-247.1.2.5)

GATES. SEC. 11B-206.4.1

TEXTURE

ENTRANCES DOORS, DOORWAYS, AND GATES SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES AND SHALL BE ON AN ACCESSIBLE ROUTE COMPLYING WITH 11B-402 ACCESSIBLE ROUTES. SEC. 11B-206.4 ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS TO BUILDING AND FACILITIES SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND

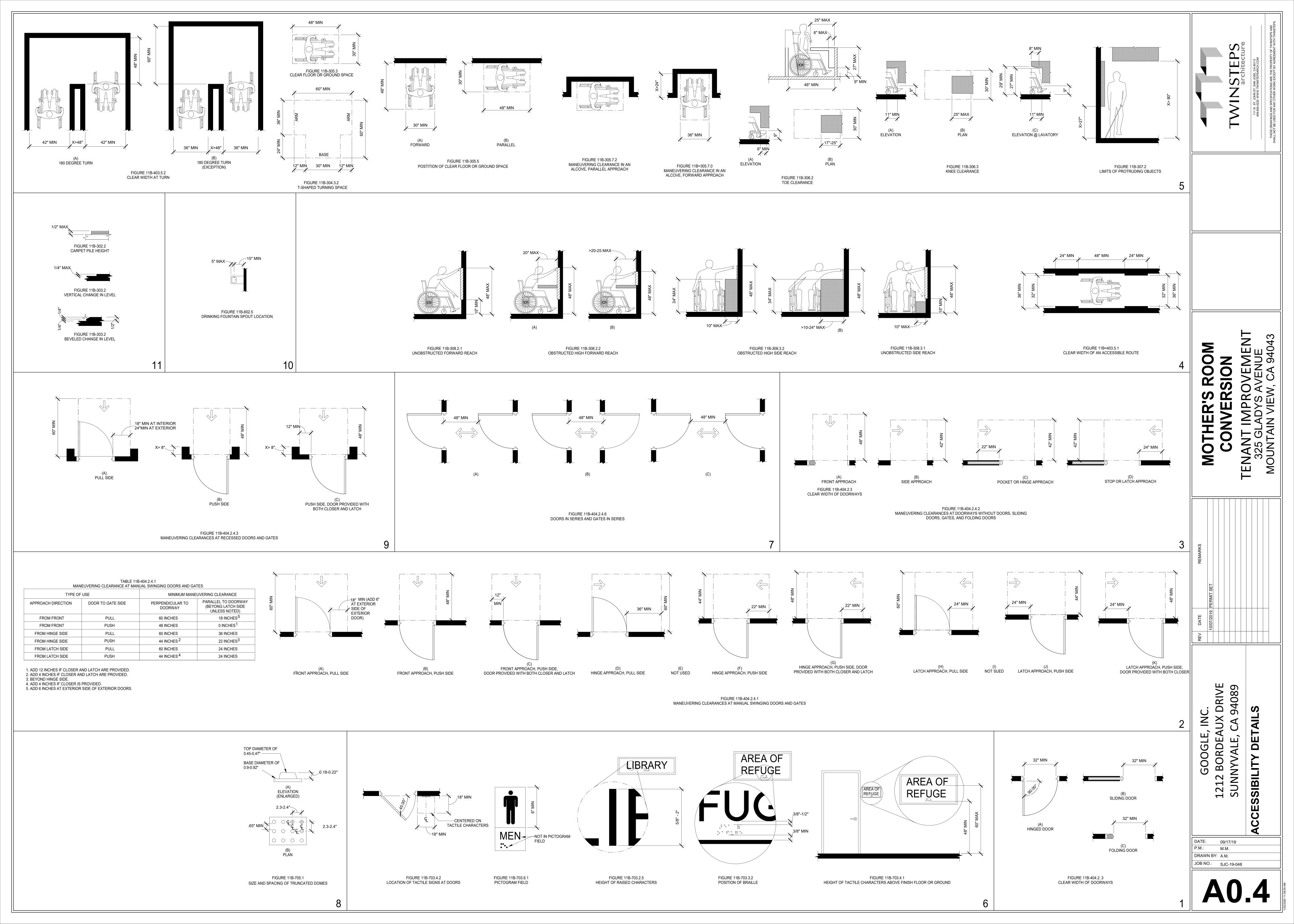
ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 11B-206.4

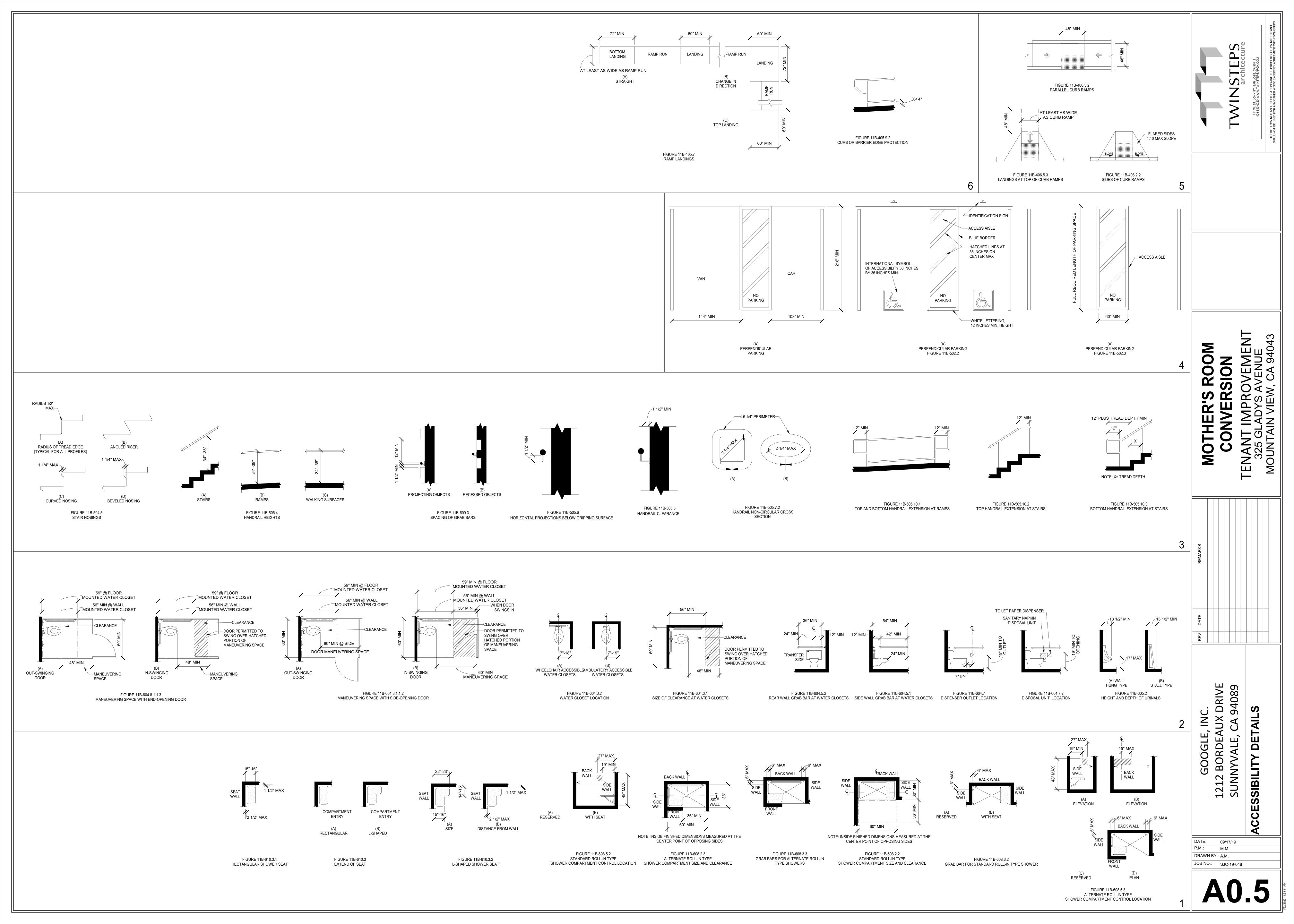
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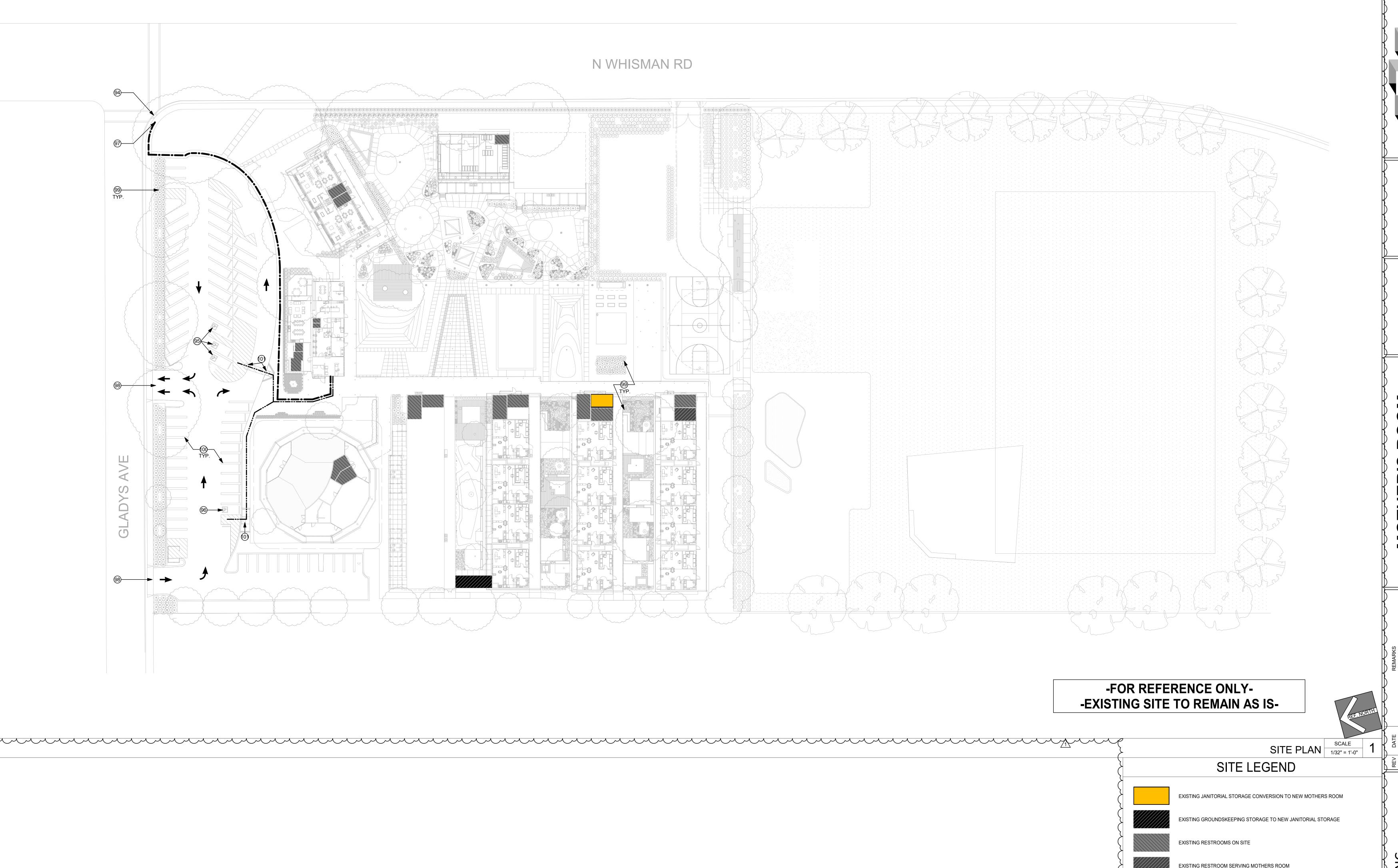
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DRAWN BY: A.M.

JOB NO.: SJC-19-048







EXISTING RESTROOM SERVING MOTHERS ROOM

(E) CONTINUOUSLY ACCESSIBLE PATH FROM ACCESSIBLE PARKING SPACES TO PRIMARY BUILDING ENTRANCE

(E) ACCESSIBLE PATH OF TRAVEL TO PUBLIC WAY

O KEYNOTES 94 (E) CURB RAMP, SEE DETAIL 5/A0.5 FOR ADDITIONAL NOTES

95 (E) ACCESSIBLE PARKING STALL , 96 (E) VAN ACCESSIBLE PARKING STALL

97 (E) ACCESSIBLE PUBLIC WAY 98 (E) DRIVEWAY

FOR ADDITIONAL NOTES

99 (E) LANDSCAPING 100 (E) PARKING STALL

GENERAL NOTES

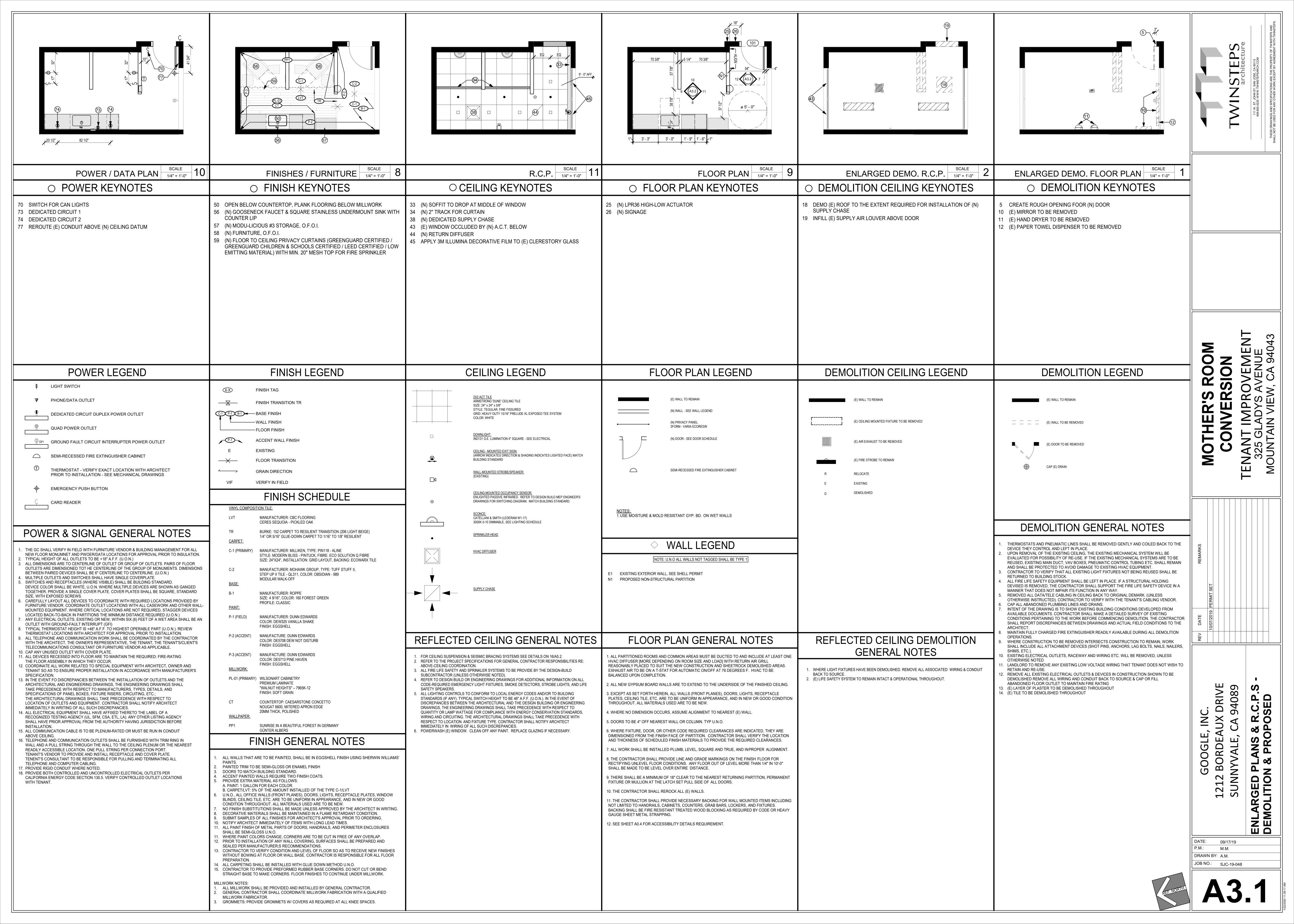
|101|(E) DETECTABLE WARNING TRUNCATED DOMES, WHERE OCCURS WHEN APPLICABLE, SEE DETAIL 8/A0.4

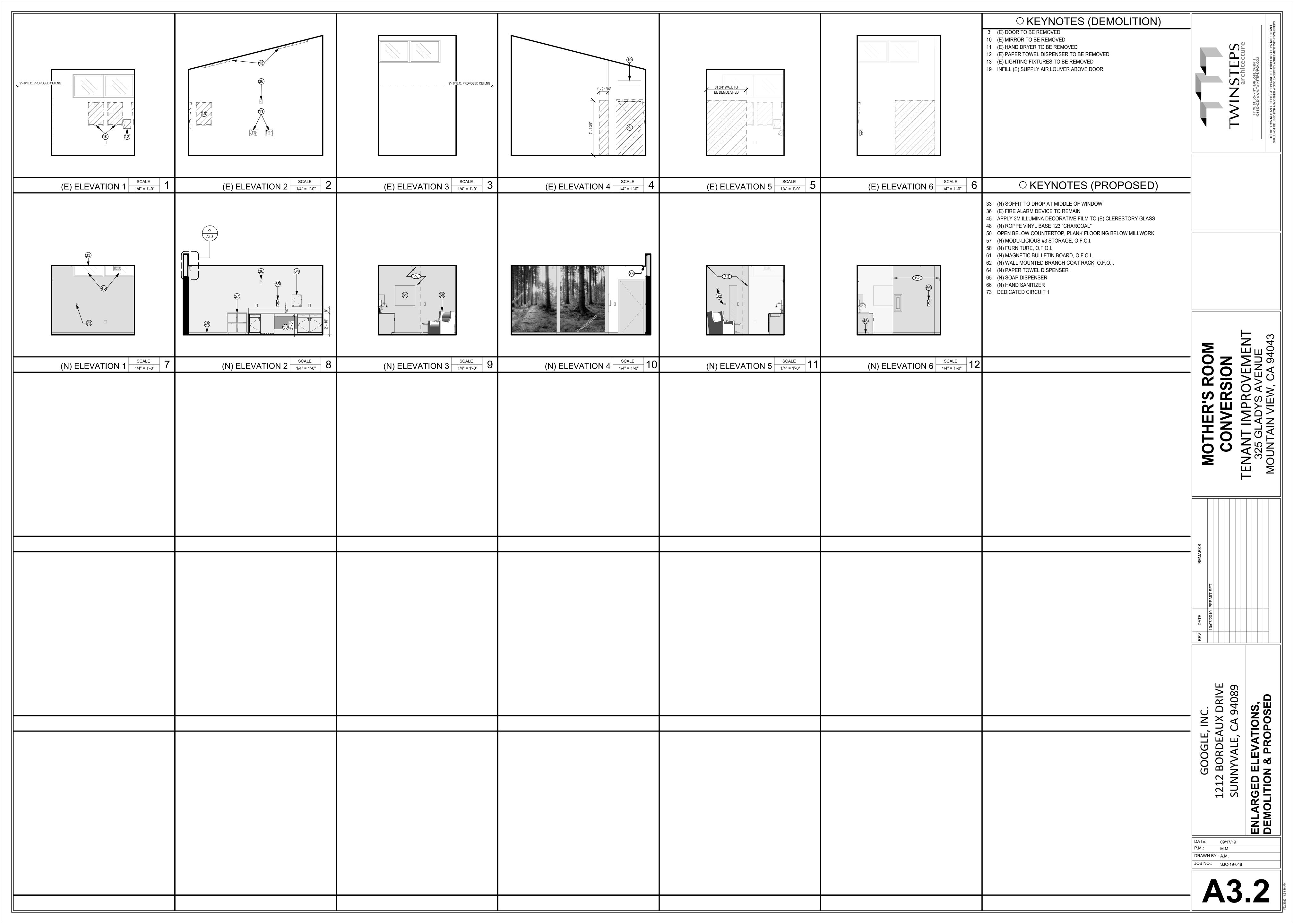
1. SHEET NOTES REFER TO (E) CONDITIONS, U.N.O.

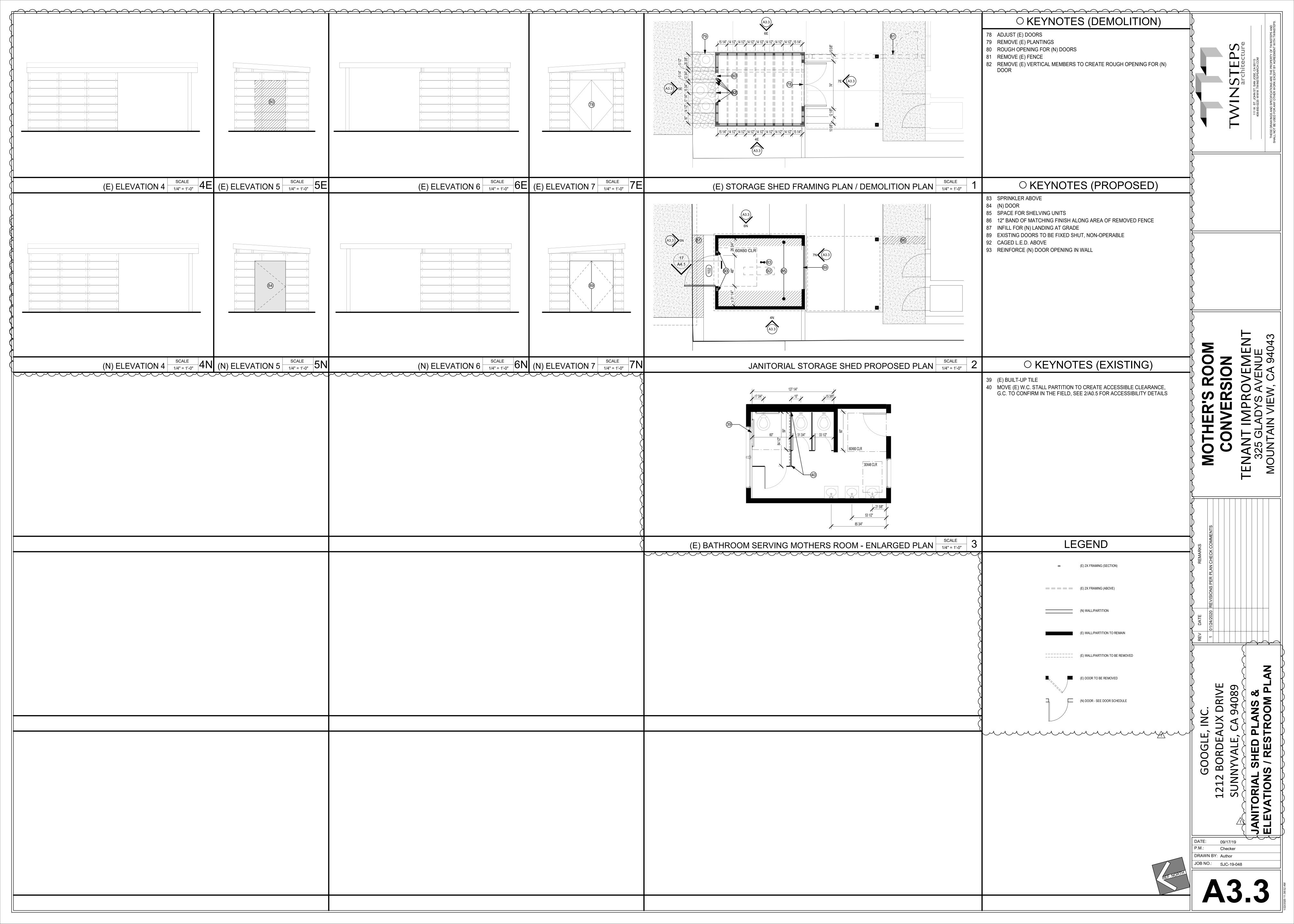
2. PATCH, REPAIR, PAINT ALL AREAS DAMAGED DUE TO CONSTRUCTION. MATCH (E) OR APPROVED EQUAL

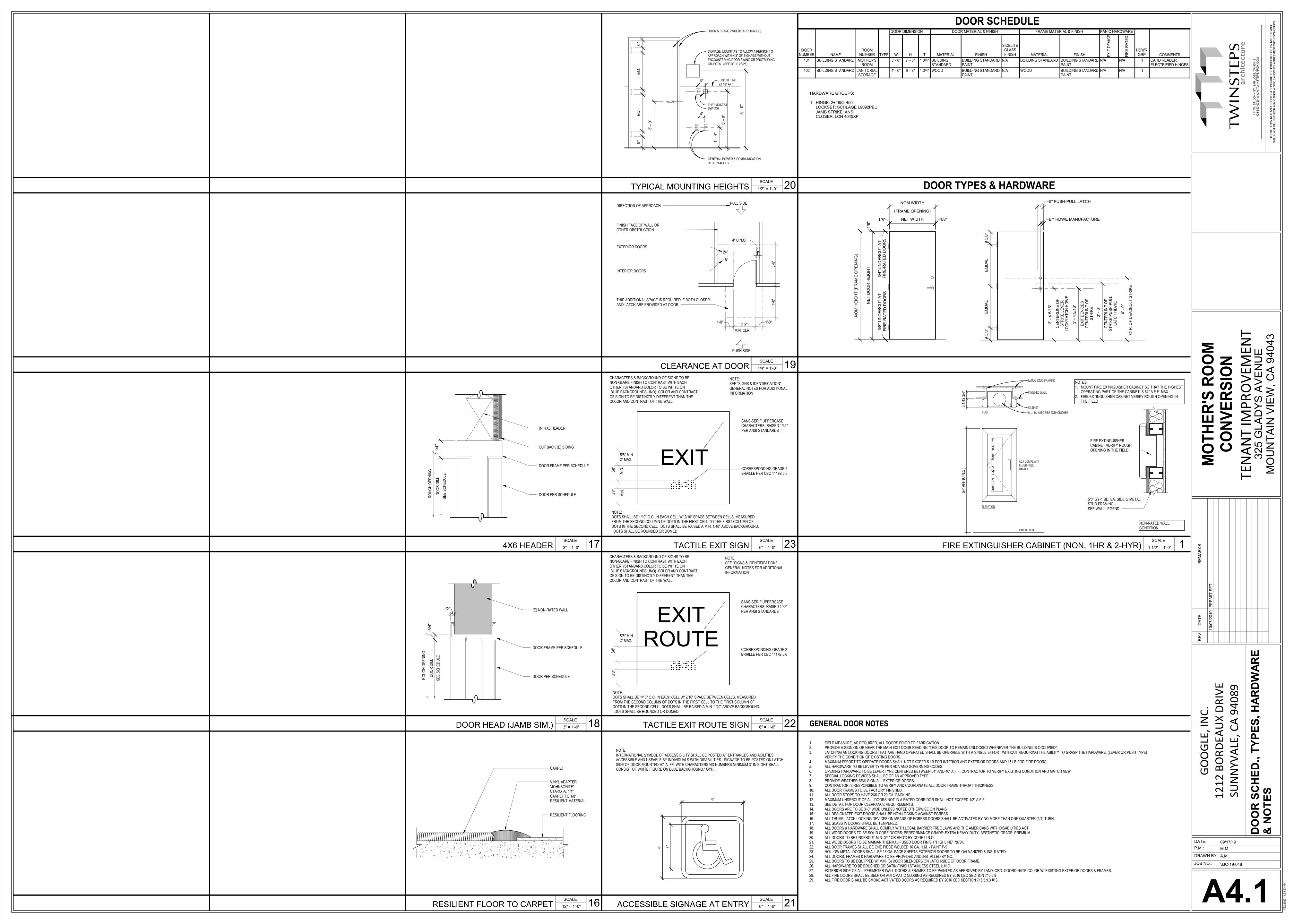
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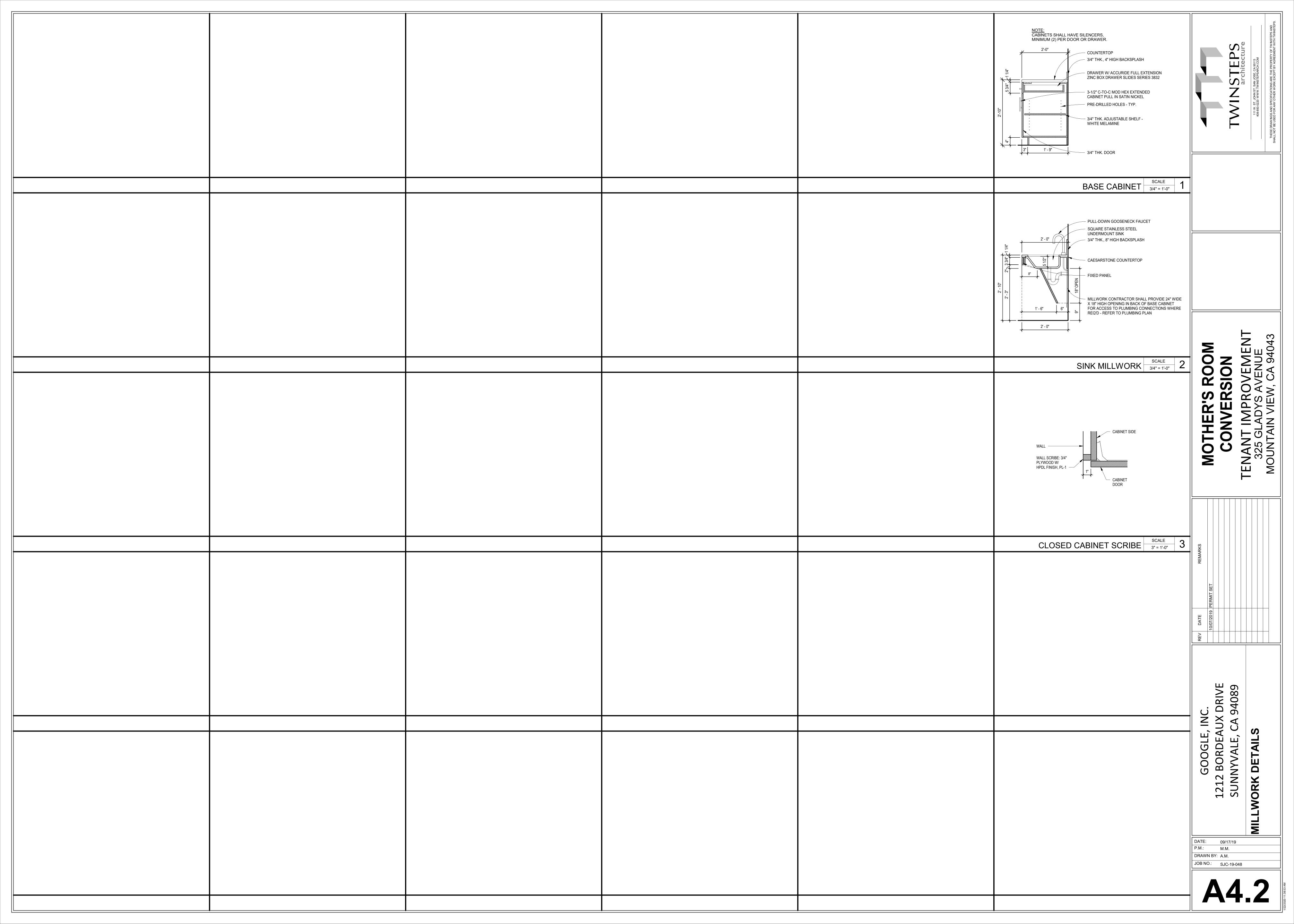
₩DATE: 09/17/19 M.M. DRAWN BY: A.M. JOB NO.: SJC-19-048

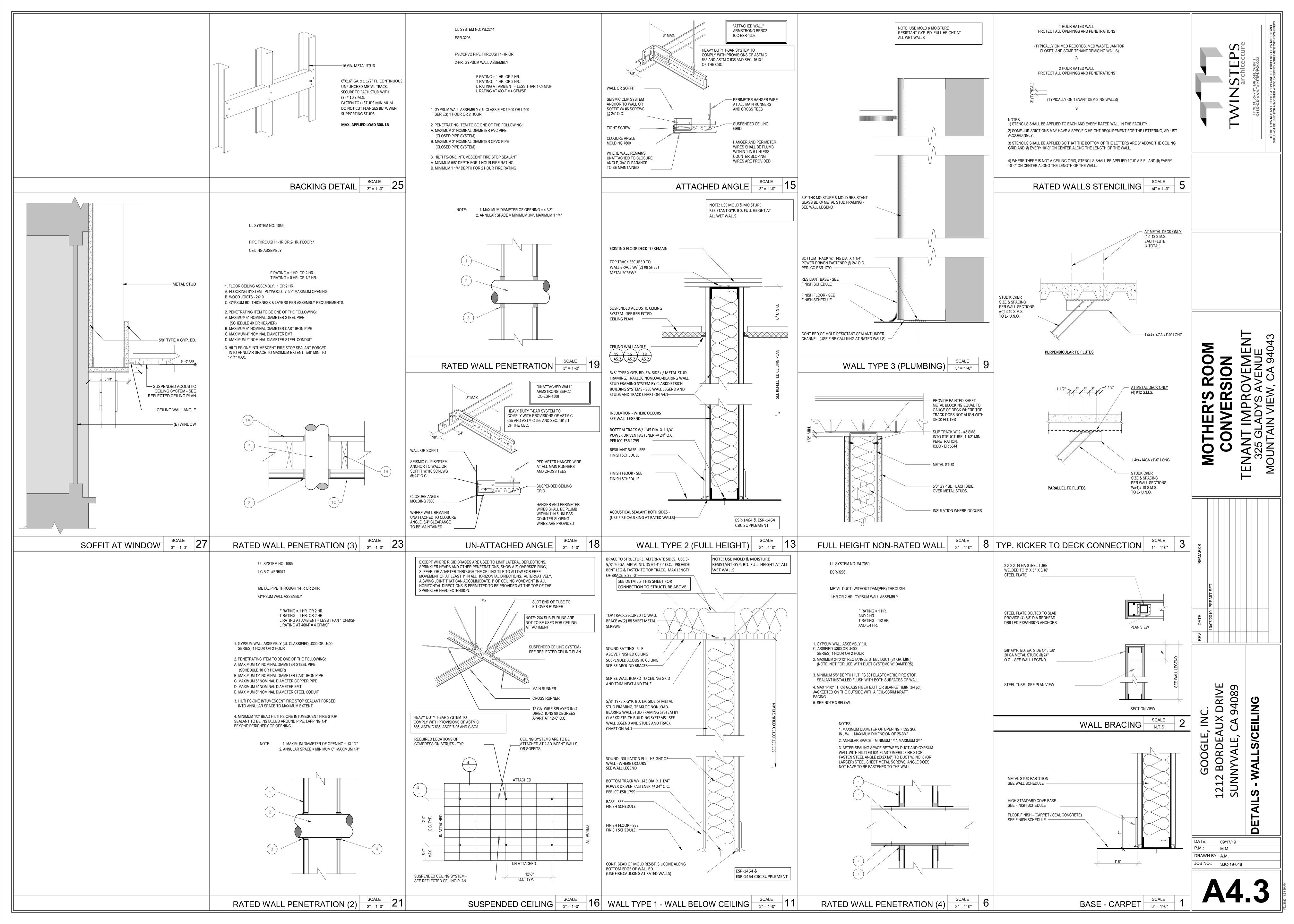












ABBREVIATIONS AUTOMATIC AIR VENT INTEGRATED PART LOAD VALUE ABOVE ACCESS DOOR KILOWATTS ABOVE FINISHED FLOOR KILOWATT HOURS ANNUAL FUEL UTILIZATION EFFICIENCY LEAVING AIR TEMPERATURE ACOUSTICAL LINER POUNDS BACKDRAFT DAMPER LEAVING WET BULB TEMPERATURE BEL BELOW LEAVING WATER TEMPERATURE BLIND FLANGE MIXED AIR TEMPERATURE BFP BACK FLOW PREVENTER MAXIMUM BRAKE HORSEPOWER THOUSAND BTU PER HOUR BUILDING MANAGEMENT SYSTEM BOTTOM OF DUCT MINIMUM CIRCUIT AMPS BOP MINIMUM EFFICIENCY REPORTING VALUE BOTTOM OF PIPE BTU MANUFACTURER BRITISH THERMAL UNIT MAXIMUM FUSE SIZE BTUH BTU PER HOUR MAXIMUM OVERCURRENT PROTECTION CAPACITY CONSTANT AIR VOLUME CAV CAP FOR FUTURE NEW CFF NORMALLY CLOSED CFM CUBIC FEET PER MINUTE NET FREE AREA CLG CEILING NOT IN MECHANICAL CONTRACT CLEAN OUT NORMALLY OPEN CARBON MONOXIDE NON-STANDARD PART LOAD VALUE CO2 CARBON DIOXIDE COP COEFFICIENT OF PERFORMANCE NTS NOT TO SCALE CTE CONNECT TO EXISTING OUTSIDE AIR OUTSIDE AIR DRY BULB TEMPERATURE DRY BULB DIAMETER OUTSIDE AIR WET BULB TEMPERATURE DIA DOWN DIRECT EXPANSION PRESSURE DROP POINT OF CONNECTION EXISTING EXHAUST AIR POINT OF USE POUNDS PER SQUARE INCH ENTERING AIR TEMPERATURE POUNDS PER SQUARE INCH (GAUGE) EER ENERGY EFFICIENCY RATIO EFF EFFICIENCY **EXPANSION JOINT** ESP EXTERNAL STATIC PRESSURE RELOCATED ENTERING WET BULB TEMPERATURE RETURN AIR ENTERING WATER TEMPERATURE RELATIVE HUMIDITY FUTURE REVOLUTIONS PER MINUTE FURNISHED BY OTHERS FLEXIBLE CONNECTION SEASONAL ENERGY EFFICIENCY RATIO SEER FIRE DAMPER FSD FIRE/SMOKE DAMPER SENS SENSIBLE FINISHED FLOOR SHEET METAL STATIC PRESSURE FULL LOAD AMPS FLR FLOOR FINS PER INCH TOTAL STATIC PRESSURE FPM FEET PER MINUTE TURNING VANE TYPICAL FT2 SQUARE FEET UNLESS OTHERWISE NOTED GROUND GPM GALLONS PER MINUTE VARIABLE AIR VOLUME

VARIABLE FREQUENCY DRIVE

WATER PRESSURE DROP (' of H20)

VIBRATION ISOLATION

WITH

WET BULB

WATER COLUMN

DRAFTING SYMBOLS NORTH ARROW SECTION NO. SHEET NO. SECTION REFERENCE SHEET NO. DETAIL REFERENCE SHEET NOTE REFERENCE TAG **EQUIPMENT TAG** RISER TAG NUMBER POINT OF CONNECTION POINT OF DISCONNECTION REVISION CLOUD WITH IDENTIFIER

HORSEPOWER

INDOOR AIR QUALITY

INSIDE DIMENSIONS

INCHES WATER COLUMN

HOUR

INCHES

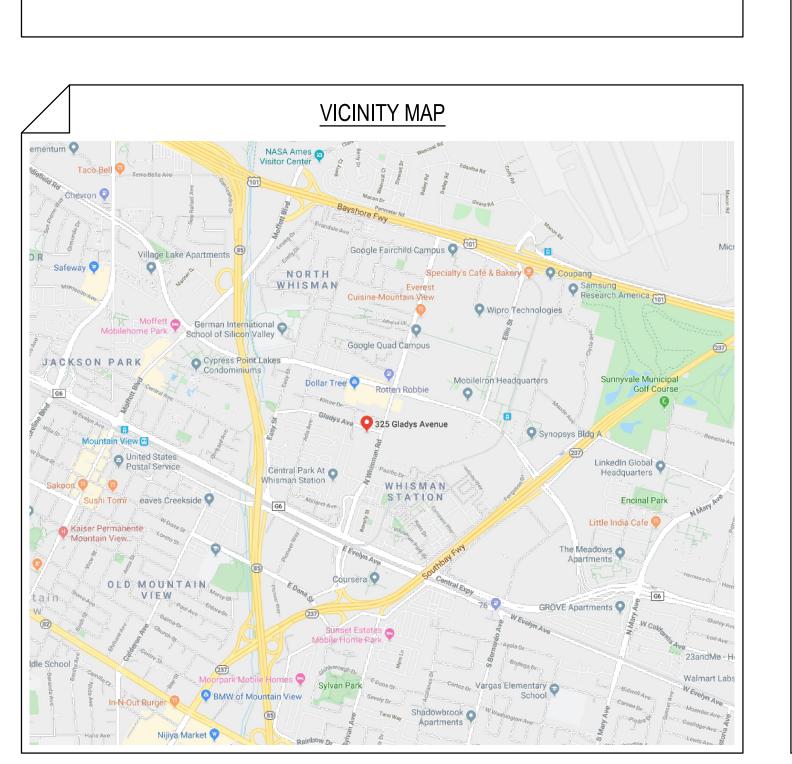
IN WC

EXHAUST AIR GRILLE (EG) DIFFUSER THROW, 3-WAY INDICATED SIDEWALL SUPPLY AIR DIFFUSER (SWD) SIDEWALL RETURN AIR GRILLE (SWG) REGISTER TAG (REGISTER) SUPPLY DUCT RISER RETURN DUCT RISER ROUND DUCT RISER **学 32" X 12" 学** DUCT, WIDTH X DEPTH (PLAN VIEW) \$ 32" OR 32"#\$ DUCT, DIAMETER (PLAN VIEW) - ALUMAFLEX 32"#S DUCT, DIAMETER (PLAN VIEW) - HARD SPIRAL NEW DUCT (DARK) 24X16 ID ACOUSTICAL LINED DUCT, DIMENSIONS ARE NET INSIDE EXISTING DUCT (LIGHT) SUPPLY DUCT RETURN DUCT EXHAUST DUCT -*-*-* X DEMOLITION INDICATED BY X's SQUARE TO ROUND DUCT TRANSITION RECTANGULAR DUCT ELBOW WITH TURNING VANES **1** ROUND DUCT ELBOW ₹ RECTANGULAR DUCT ELBOW WITH FULL RADIUS SINGLE INLET VAV BOX WITH SQUARE TO ROUND SINGLE INLET VAV BOX WITH HEATING COIL DOUBLE DUCT INLET VAV BOX WITH SQUARE TO ROUND VAV BOX WITH SOUND ATTENUATOR FAN COIL UNIT MANUAL VOLUME DAMPER (MD) MOTORIZED CONTROL DAMPER BACK DRAFT DAMPER FIRE DAMPER COMBINATION FIRE/SMOKE DAMPER ZONE DAMPER THERMOSTAT (WITH ID TAG) **HUMIDITY SENSOR** CARBON MONOXIDE SENSOR CARBON DIOXIDE SENSOR PRESSURE SENSOR DIFFERENTIAL PRESSURE SENSOR

HVAC SYMBOLS

SUPPLY AIR DIFFUSER (SD)

RETURN AIR GRILLE (RG)



PIPING SYMBOLS — CHWS — CHWS CHILLED WATER SUPPLY — CHWR — CHWR CHILLED WATER RETURN —— CR —— CR CONDENSATE RETURN (STEAM) CONDENSATE DRAIN (COILS) —— CD ——— CD ——— G ——— G GAS (NATURAL) —— HHWS —— HHWS HEATING HOT WATER SUPPLY HEATING HOT WATER RETURN —— HHWR —— HHWR —— CWS —— CWS CONDENSER WATER SUPPLY CONDENSER WATER RETURN — DCW — DCW DOMESTIC COLD WATER — SAN — SAN SANITARY WASTE INDUSTRIAL COLD WATER —— ICW ——— ICW DEIONIZED WATER — DI — DI —— RO —— RO REVERSE OSMOSIS WATER ____ v ___ v —— SD ——— SD STORM DRAIN ——— A ——— A COMPRESSED AIR _____ VAC ____ VAC WET HOUSE CLEANING VACUUM (5" HG. NOM.) ____s SLOPE LINE DOWN IN DIRECTION OF ARROW \longrightarrow PIPE ANCHOR ____ ALIGNMENT GUIDE STRAINER W/BLOW DOWN ----BASKET STRAINER FLEX CONNECTION \longrightarrow CONCENTRIC REDUCER ___ ECCENTRIC REDUCER UNION MANUAL AIR VENT AUTOMATIC AIR VENT SENSOR WELL ____T___ PRESSURE/TEMPERATURE PORT THERMOMETER PRESSURE GAUGE **────** SUCTION DIFFUSER FLOW SWITCH FLOW METER ——<u>FM</u>—— **─** PLUG VALVE **────** SOLENOID VALVE **BUTTERFLY VALVE ──|**|•1|----**──────** TEMPERATURE CONTROL VALVE DIAPHRAGM VALVE **—** QUICK CLOSE VALVE GATE VALVE \longrightarrow **──** GLOBE VALVE —-ды BALL VALVE ----₹----TEMPERATURE/PRESSURE RELIEF VALVE **──**₩── NEEDLE VALVE $\overline{}$ CHECK VALVE **──**♥ BALANCE VALVE **─**₹

TRIPLE DUTY VALVE (CHECK, BALANCE, ISOLATION VALVE)

PRESSURE REDUCING VALVE

ELECTRIC MOTOR OPERATOR

FLOAT CONTROLLED VALVE

OUTSIDE SCREW & YOKE GATE VALVE

PNEUMATIC OPERATOR

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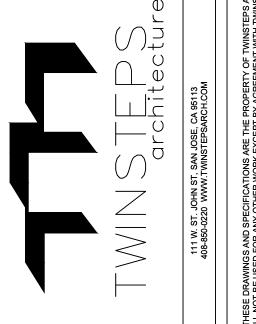
SHEET INDEX M0.00 MECHANICAL SYMBOLS AND ABBREVIATIONS M0.01 MECHANICAL TITLE 24 M2.01 MECHANICAL FLOOR PLAN, ROOF PLAN, SCHEDULES, AND DETAILS SHEET NUMBERING KEY $\mathsf{X} \ \mathsf{X} \ . \ \mathsf{X} \ \mathsf{X} \ \mathsf{X}$ AREA DESIGNATOR (IF REQUIRED) FLOOR LEVEL (PLANS), CONSECUTIVE NUMBER (NON-PLAN SHEETS) CONSECUTIVE NUMBER (NON-PLAN SHEETS) TYPE DESIGNATOR (PLANS, SECTIONS, DETAILS, ETC.) DISCIPLINE (MECHANICAL, PLUMBING, ETC.) DISCIPLINE LEGEND SHEET TYPE LEGEND AREA LEGEND M MECHANICAL 1 SITE (PLANS) 1,2,3, etc. (SEE KEY PLAN) MP MECHANICAL PIPING 2 FLOOR (PLANS) P PLUMBING 3 SCHEDULES PP PROCESS PIPING 4 ENLARGED PLANS xD DEMO 5 SECTIONS & DIAGRAMS 6 DETAILS 7 CONTROLS



TENANT IMPROVEMENT PROJECT FOR MOTHER'S ROOM ADDITION ON A SINGLE STORY BUILDING.

GENERAL NOTES

- A. ALL INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA MECHANICAL CODE, CALIFORNIA ENERGY CODE, CALIFORNIA TITLE 24, AND LOCAL MUNICIPAL CODES.
- B. ALL MATERIAL EXPOSED WITHIN THE DUCT OR PLENUM, OR APPLIED TO THE EXTERIOR OF THE DUCTS, SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50 PER CMC
- C. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED PER CEC SECTION 110-2.
- D. ALL DUCTS SHALL BE CONSTRUCTED AND INSTALLED PER CMC SECTION 602. ALL EXPOSED DUCTS SHALL BE GALVANIZED STEEL 24 GAUGE OR THICKER. ALL FLEXIBLE DUCT IS INSULATED WIRE FLEX.
- E. FACTORY MADE AIR DUCTS, IF USED, SHALL BE LISTED CLASS 0 OR CLASS 1 AIR DUCTS.
- F. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE LISTED UL 555 1-1/2 HOUR RATED FOR USE IN 1 HOUR AND 2 HOUR PARTITIONS. INSTALLATION MANUAL FOR THE COMBINATION FIRE/SMOKE DAMPERS SHALL BE AVAILABLE IF REQUESTED BY THE CITY INSPECTOR AT THE JOB SITE.
- G. RETURN AIR FILTERS WITH A MERV8 VALUE SHALL USED DURING CONSTRUCTION IF THE PERMANENT HVAC SYSTEMS SHALL BE USED FOR VENTILATION DURING CONSTRUCTION. REPLACE THE FILTERS IMMEDIATELY PRIOR TO OCCUPANCY PER 2016 CALGREEN CODE SECTION 5.504.1.3
- H. ALL DUCT DIMENSIONS INDICATED ON DRAWINGS ARE NET CLEAR INSIDE DIMENSIONS.
- J. PROVIDE MANUAL DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE OUTLET OR INLET.
- K. ALL THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR AND COMPLY WITH ADA





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MECHA AND A

DRAWN BY: A.M. JOB NO.: SJC-19-048

CALGREEN NEW CONSTRUCTION MANDATORY MEASURES

MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.408.1 CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR REUSE OF A MINIMUM OF 50% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH THE SECTION 5.408.1.1, 5.408.1.2, OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS GREATER.

5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL CONTAIN THE FOLLOWING INFORMATION ABOUT THE DEMOLITION AND CONSTRUCTION WASTE MATERIAL: WHERE THE WASTE WILL BE TAKEN, HOW THE AMOUNT OF WASTE WILL BE MEASURED, HOW THE

5.408.1.2 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM LANDFILL COMPLIES WITH STANDARD 5.408.1.

WASTE WILL BE DIVERTED FROM DISPOSAL AND THE METHOD IN WHICH THE WASTE MATERIAL WILL BE SORTED.

THE PROJECT BEGINS AND SHALL INCLUDED THE ITEMS LISTED IN SECTION 5.410.2.1

5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL DOES NOT EXCEED 2 LBS/SQFT OF THE BUILDING.

5.408.1.4 DOCUMENTATION. DOCUMENTATION DEMONSTRATING THE COMPLIANCE OF STANDARD 5.408.1 SHALL BE PROVIDED TO THE ENFORCING AGENCY.

BUILDING MAINTENANCE AND OPERATION

5.410.2 COMMISSIONING. COMMISSIONING REQUIREMENTS SHALL INCLUDE THE ITEMS LISTED IN SECTION 5.401.2 FOR BUILDINGS 10,000 SQFT AND OVER.

5.410.2.1 OWNER'S PROJECT REQUIREMENTS (OPR). THE OPR SHALL CONTAIN THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING BEFORE THE DESIGN PHASE OF

5.410.2.2 BASIS OF DESIGN (BOD). THE BOD EXPLAINS HOW THE BUILDING SYSTEM WILL MEET OPR SPECIFICATIONS AND SHALL INCLUDE THE ITEMS LISTED IN SECTION

5.410.2.3 COMMISSIONING PLAN. COMPLETED PRIOR TO PERMIT ISSUE. IT SHALL DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED AND INCLUDE THE ITEMS LISTED IN 5.410.1.3.

5.410.2.4 FUNCTIONAL PERFORMANCE TESTING. DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

5.410.2.5 DOCUMENTATION AND TRAINING. A SYSTEM MANUAL SHALL BE PROVIDED CONTAINING OPERATION ASPECTS OF THE BUILDING AND THE ITEMS LISTED IN SECTION 5.410.2.5.1. A SYSTEMS OPERATIONS TRAINING PROGRAM SHALL BE PROVIDED TO THE MAINTENANCE STAFF FOR EACH EQUIPMENT AND/OR SYSTEM AND WILL INCLUDE THE ITEMS IN SECTION 5.410.2.5.2.

5.410.2.6 COMMISSIONING REPORT. THE COMMISSIONING REPORT SHALL CONTAIN PROCESSES OF ACTIVITIES THROUGHOUT THE DESIGN AND CONSTRUCTION PHASES.

5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING SHALL BE PROVIDED FOR BUILDINGS UNDER 10,000 SQFT AND NEW SYSTEMS TO SERVE IN AN ADDITION OR ALTERATION TO SECTION 303.1.

5.410.4.2 SYSTEMS. A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. IT SHALL INCLUDE THE ITEMS LISTED IN 5.410.2.

5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS. THE HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE TO THE ENFORCING AGENCY.

5.410.4.4 REPORTING. A FINAL REPORT OF TESTING SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

5.410.4.5 OPERATION AND MAINTENANCE (O&M) MANUAL. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS, AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

POLLUTANT CONTROL

5.404.1.3 TEMPORARY VENTILATION. IF HVAC SYSTEM IS USED DURING CONSTRUCTION USE MERV 8 AIR FILTERS OR AIR FILTERS WITH AN AVERAGE OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

5.404.3 COVERING ALL DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT. ALL DUCT AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND ROUGH INSTALLATION ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF

5.504.4.1 ADHESIVES, SEALANTS AND CAULKS. ADHESIVES, SEALANTS, AND CAULKS SHALL FOLLOW VOC LIMITS SHOWN IN TABLE 5.504.4.2 AND 5.504.4.3, OR LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY DISTRICT RULES. AEROSOL ADHESIVES AND ADHESIVES, SEALANTS OR CAULKING WEIGHING NO MORE THAN A POUND AND DO NOT CONSIST MORE THAN 160Z SHALL COMPLY WITH VOC STANDARDS AND CALIFORNIA CODE OF REGULATIONS, TITLE 17.

5.504.4.3 PAINTS AND COATINGS. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 5.504.4.4, UNLESS MORE STRINGENT LOCAL LIMITS

5.504.5.3 FILTERS. MERV 8 FILTERS OR BETTER MUST BE INSTALLED IN ALL MECHANICALLY VENTILATED BUILDINGS PRIOR TO OCCUPANCY.

INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2 SECTIONS 1203 AND CHAPTER 14.

INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. FOR ALL VENTILATED SPACES IN BUILDINGS, MEET THE REQUIREMENTS OF SECTION 120.1 OF THE 2016 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE 2013 CALIFORNIA ENERGY CODE, SECTION 120(C)(4).

OUTDOOR AIR QUALITY

5.508.1.1 CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

5.508.1.2 HALONS. INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

STATE OF CALIFORNIA **Mechanical Systems** NRCC-MCH-E (Created 11/19) CALIFORNIA ENERGY COMMISS CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations. Project Name: CW325 Gladys Mothers Room Project Address: 325 Gladys Avenue Mountain View CA 94043 Date Prepared: A. GENERAL INFORMATION 01 Project Location (city) 04 Total Conditioned Floor Area 02 Climate Zone 05 Total Unconditioned Floor Area 06 # of Stories (Habitable Above Grade) Office (B) Non-refrigerated Warehouse (S) Hotel/ Motel Guest Rooms (R-1) School (F) Healthcare Facility (H) High-Rise Residential (R-2/R-3) Relocatable Class Bldg (E) ✓ Other (Write In): Day Care Facility FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html B. PROJECT SCOPE Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations. My project consists of (check all that apply) Wet System Components **Dry System Components** Heating Air System Water Economizer Electric Resistance Heat Cooling Air System

01	ons:	ony celi on ti 02	nis ta	ble says "DOES 03	NOT	04	COIVII	05	ертіоі Г	06	rejei	07	r guid	oance.	09
01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps <u>§140.4(k)</u>	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(I)	AND	Cooling Towers §110.2(e)2	Compliance Result
See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND	Yes	AND	Yes	AND		AND		AND		COMPLIES
								IV	landa	tory Measure	s Con	npliance (See	Гable	Q for Details)	COMPLIES

Fan Systems

Ductwork

Ventilation

Zonal Systems/ Terminal Boxes

Hydronic System Piping

Cooling Towers

Mechanical Controls

Mechanical Controls

Mechanical Systems

NOTE: Must be completed by a HERS Rater

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

RCC-MCH-E (Created	· ·								ÇALIF	ORNIA ENERGY C	NRCC-MCH
	CW325 Gladys Mothers Ro	nom					Ren	ort Page:			Page 4 of
•	325 Gladys Avenue Mount		CA 94043					Prepared:			1/14/
	·										
	AND INDOOR AIR QUA	2000 7 70									<u> </u>
esidential and ho	: Complete the following T stel/motel occupancies. Fo e, the required outdoor vel	or alteratio	ns, only ver	ntilation systen	ns being a	altered withi	n the scop	e of the permit applica	ation need to	be document	, ,
01	Check the box if t	he project	is showing	ventilation cal	culations	on the plans	, or attacl	hing the calculations ir	nstead of cor	npleting this t	able.
02	Check this box if t	he project	includes ne	ew or altered h	nigh-rise r	esidential d	welling un	its.			
03	Check the box if t	he project	is using nat	ural ventilatio	n in any s	paces to me	et require	d ventilation rates per	§120.1(c)2.		
Nonresidential an	nd Hotel/ Motel Ventilation	on Systems	5								
	04		(05			0	6		07	
		c	locian OA						Air Filtration per §120.1(c) and §141.		
ystem Name:	AC-1	CFM Air Fl	Design OA r Flow ¹ :			System Design Transfer Air CFI		()		Provided per §141.0(b)2c (a	
08	09		10	11	12	13	14	15		16	
	Mechani	cal Ventilat	tion Require	ed per <u>§120.1(</u>	c)3 ³	'	Exh. Ve	ent. per <u>§120.1(c)4</u>			
Space Name or Item Tag	Occupancy Type ⁴	1	Conditioned Floor Area (ft²)	# of showerheads/ toilets	# of people ⁵	Required Min OA CFM	Required Minimum CFM	Provided her Decign			or Controls per & <u>§120.2(e)3</u> 6
A o 1	Davisana (through aga	4)	170			35.7			DCV		0 ft2 or design < 10 people
Ac-1 Daycare (through age 4)		4)	1/0			35./			Occ Sensor	+ manual	2kW demand shutoff per 3 exception

¹ FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Markonial Code page to the space of the

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	November 201
STATE OF CALIFORNIA	

NRCC-MCH-E (C	Created 11/19)	CALIFORNIA E	NERGY COMMIS	SSION
CERTIFICATE	E OF COMP	LIANCE		N	IRCC-MCH-I
Project Nam	ne: CW3	25 Gladys Mothers Room	Report Page:		Page 7 of 9
Project Addı	ress: 325 (Gladys Avenue Mountain View CA 94043	Date Prepared:		1/14/2
D DECLAR	ATION OF	REQUIRED CERTIFICATES OF VERIFICATION			(
created by a	HERS Prov	narks. These documents must be completed by a HERS Rater and provided to the builders registry, but drafts can be found online at https://www.energy.ca.gov/title24 ents/NRCV/			nust be
YES	NO	Form/Title			spector
				Pass	Fail
0	•	NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater			
0	•	NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater			
0	•	NRCV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater			
		NRCV-MCH-32 Local Mechanical Exhaust			

STATE OF CAL	LIFORNIA									
	nical Systems									ON PROPERTY.
	(Created 11/19)						CALIF	ORNIA ENER	GY COMMISS	ON
	TE OF COMPLIANCE me: CW325 Gladys Mot	thous Doom		Report	Dogo					CC-MCH-Page 2 of 9
	•	Mountain View CA 94043			repared:					1/14/20
	-	Intodition view en 34043		Date	герагеа.					
D. EXCEP	TIONAL CONDITIONS									?
This table i	is auto-filled with uneditab	le comments because of selections made or	data entered in tables	throughou	ıt the form					
							_			
Selections	made in Table O have bee	n changed by the permit applicant. See Table	e E. Additional Remar	ks for perm	it applican	t's explana	ition.			
E ADDITI	ONAL REMARKS									?
		the permit applicant to the Authority Having	Jurisdiction							<u> </u>
THIS LUDIE	iliciades remarks made by	the permit applicant to the Authority Having	Julisuiction.							
F. HVAC S	SYSTEM SUMMARY (DR	Y & WET SYSTEMS)								?
		owing equipment schedules to show complia	nce with mandatory r	equiremen	ts found in	<u>§110.1</u> and	d <u>§110.2(a)</u>	and presc	riptive requ	uirements
		<u>40.4(k)</u> or <u>§141.0(b)2</u> for alterations.								
Dry Syster	n Equipment Sizing (includ	des air conditioners, condensers, heat pump	s, VRF, furnaces and	unit heate	rs)					
01	02	03	04	05	06	07	08	09	10	11
				Equip	ment Sizin	g per Mecl	nanical Sch	edule (Btu	/h) <u>§140.4</u>	<u>(a&b)</u>
				Неа	ating Outpu	ut ^{2,3}	Cooling (Output ^{2,3}	Load Calc	ulations ^{3,4}
Name or Item Tag	Equipment Category per <u>Tables 110.2</u>	Equipment Type per <u>Tables 110.2</u> & <u>Title 20</u>	Smallest Size Available ¹ §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC 1	Hoat Dump + AC	Air cooled unitary AC/UD Split Syc (2Dh)	Vos	22	10	_	10	10	6	12

¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.

² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

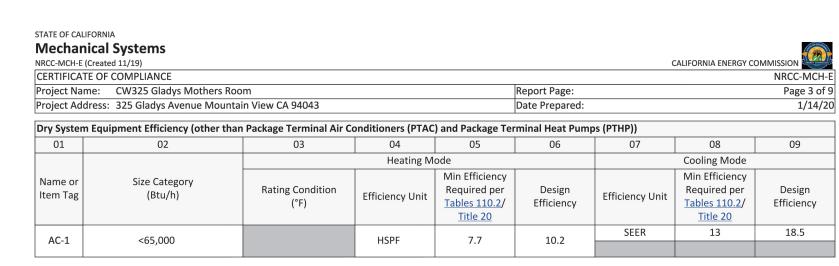
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

November 2019

Mechani	-			CALIFORNIA ENERGY COMMIS	SION
CERTIFICATI		•			IRCC-MCH-
Project Nam	ne: CW32	25 Gladys Mothers Room	Report Page:		Page 5 of
Project Add	ress: 325 G	Gladys Avenue Mountain View CA 94043	Date Prepared:		1/14/
§130.1(c).					
K. TERMIN	AL BOX CO	ONTROLS			<u> </u>
This Section	Does Not A	Apply			
L. DISTRIB	UTION (DU	JCTWORK AND PIPING)			<u> </u>
This Section	Does Not A	Apply			
M. COOLIN	IG TOWER	SS .			<u> </u>
This Section	Does Not A	Apply			
N. DECLAR	ATION OF	REQUIRED CERTIFICATES OF INSTALLATION			<u></u>
Table E. Add	litional Ren	ctions have been made based on information provided in prev narks. These documents must be provided to the building insp (2019_compliance_documents/Nonresidential_Documents/NI	ector during construction and can be found online at <u>htt</u>		
VEC	NO		(Trial	Field In:	spector
YES	NO		orm/Title	Pass	Fail
•		NRCI-MCH-01-E - Must be submitted for all buildings.			
O. DECLAR	ATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE			<u> </u>
	litional Ren	ections have been made based on information provided in pre narks. These documents must be provided to the building insp (2019_compliance_documents/Nonresidential_Documents/NI	ector during construction and can be found online at <u>htt</u>		in why in
		-			
	NO		orm/Title	Field In:	spector

STATE OF CALIFORNIA				
Mechanical Systems				IFORNIA ENERGY COMMISSION
NRCC-MCH-E (Created 11/19)			CAL	IFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE				NRCC-MCH-
Project Name: CW325 Gladys Mothers Room			Report Page:	Page 8 of
Project Address: 325 Gladys Avenue Mountain View CA 94043	3		Date Prepared:	1/14/2
				_
Q. MANDATORY MEASURES DOCUMENTATION LOCATION	ON			<u> </u>
		onstruction do	cumentation. For any mandatory meas	sures that do not apply, mark
Table Instructions: Indicate where mandatory measures are do	ocumented in the plan set or co			sures that do not apply, mark
Q. MANDATORY MEASURES DOCUMENTATION LOCATI Table Instructions: Indicate where mandatory measures are do the plan sheet or construction document location as "N/A", an	ocumented in the plan set or co			sures that do not apply, mark
Table Instructions: Indicate where mandatory measures are do	ocumented in the plan set or co		non-compliance in Table C.	



G. PUMPS								
This Section Does	Not Apply							
H. FAN SYSTEM	S & AIR ECONO	MIZERS						
This Section Does	Not Apply							,
		-	demonstrate compliance wi ioning systems.	th mandatory co	ntrols in <u>§110.2</u> an	d <u>§120.2</u> and prescriptive c	ontrols in <u>§140.4</u>	<u>(f)</u> and <u>(n)</u> or
01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c) ¹ , §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks pe §140.4(n)
System Name		(10)						

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

STATE OF CALIFORNIA

STATE OF CALIFORNIA

Responsible Designer Name:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

NRCC-MCH-E (CERTIFICATI		PLIANCE	NIA ENERGY COMN	NRCC-MCH
Project Nam	ne: CW3	325 Gladys Mothers Room Report Page:		Page 6 of
		Gladys Avenue Mountain View CA 94043 Date Prepared:		1/14/
•	0	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap. NRCA-MCH-03-A Constant Volume Single Zone HVAC		
0	•	NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".		
0	•	NRCA-MCH-04-A Air Distribution Duct Leakage		
0	•	NRCA-MCH-05-A Air Economizer Controls		
0	•	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.		
0	•	NRCA-MCH-07-A Supply Fan Variable Flow Controls		
0	•	NRCA-MCH-08-A Valve Leakage Test		
0	•	NRCA-MCH-09-A Supply Water Temperature Reset Controls		
0	•	NRCA-MCH-10-A Hydronic System Variable Flow Controls		
0	•	NRCA-MCH-11-A Automatic Demand Shed Controls		
0	•	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		
0	•	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		
0	•	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scopermit applicant should move this form to "Yes".		
0	•	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil Extern Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) System are included in the scope, permit applicant should move this form to "Yes".		
0	•	NRCA-MCH-16-A Supply Air Temperature Reset Controls		
0	•	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		
0	•	NRCA-MCH-18 Energy Management Control Systems		
0	•	NRCA-MCH-19 Occupancy Sensor Controls		
0	•	NRCA-MCH-20 Multi-Family Ventilation		
0	•	NRCA-MCH-21 Multi-Family Envelope Leakage		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

Oscar Camacho

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

940 Remillard Court
San Jose/CA/95122

Mechanical Systems			
NRCC-MCH-E (Created 11/19)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MC
Project Name: CW325 Gladys Mo	others Room	Report Pa	ge: Page 9
Project Address: 325 Gladys Avenu	e Mountain View CA 94043	Date Prep	pared: 1/14
DOCUMENTATION AUTHOR'S D	ECLARATION STATEMENT		
1. I certify that this Certificate of Co	mpliance documentation is accurate and	complete.	
Documentation Author Name:	Oscar Camacho	Documentation Author Sign	nature:
Company:	Air Systems	Signature Date:	1/14/20
Address:	940 Remillard Court	CEA/ HERS Certification Ide	ntification (if applicable):
City/State/Zip:	San Jose/CA/95122	Phone:	408-9181-236
RESPONSIBLE PERSON'S DECLARAT			
	y of perjury, under the laws of the State		
•	s Certificate of Compliance is true and co		
2. I am eligible under Division 3 of Compliance (responsible designe		cept responsibility for the building desi	ign or system design identified on this Certificate of
		ents and manufactured devices for the	building design or system design identified on this
	m to the requirements of Title 24, Part 1	•	
		•	nt with the information provided on other applicable cy for approval with this building permit application.
to the enforcement agency for a		at a completed signed copy of this Cer	ilding permit(s) issued for the building, and made availa tificate of Compliance is required to be included with th

Responsible Designer Signature:

408-918-1236

Date Signed:

20 REVISIONS PER PLAN CHE

940 REMILLARD COURT, SAN JOSE, CALIFORNIA 95122

PHONE (408) 280-1666 FAX (408) 280-1020 LIC#855330

November 2019

November 2019

November 2019

REV DATE

1 01/27/2020

1 01/27/2020

1 089

GOOGLE, INC. 1212 BORDEAUX DRIVE SUNNYVALE, CA 94089

DATE: 09/17/19

P.M.: M.M.

DRAWN BY: A.M.

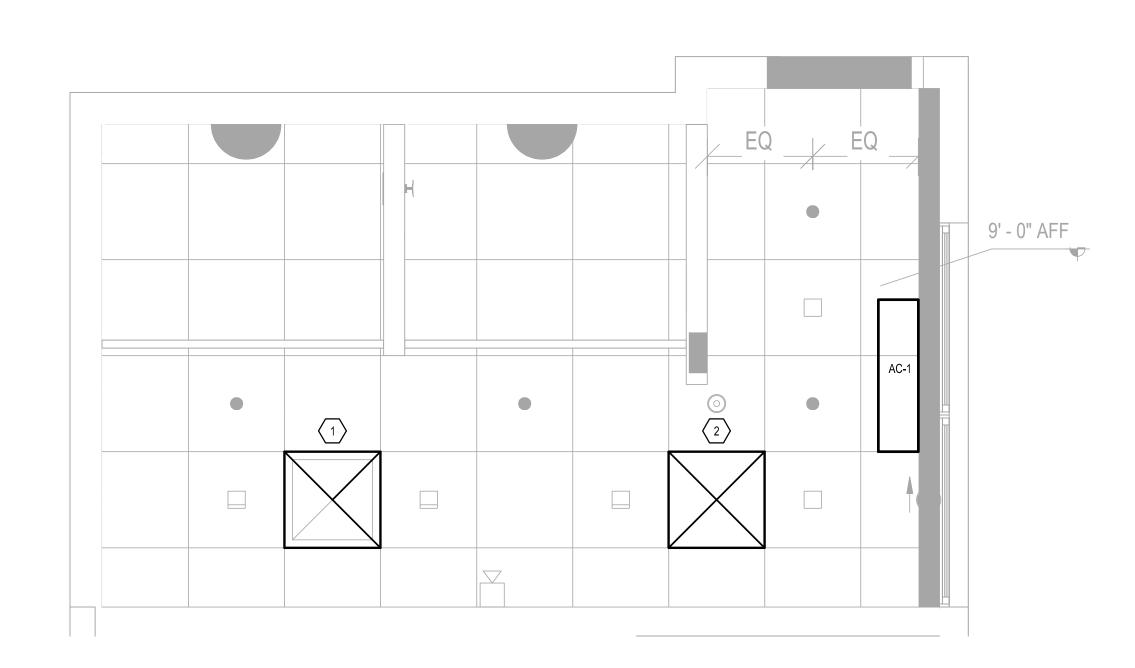
JOB NO.: SJC-19-048

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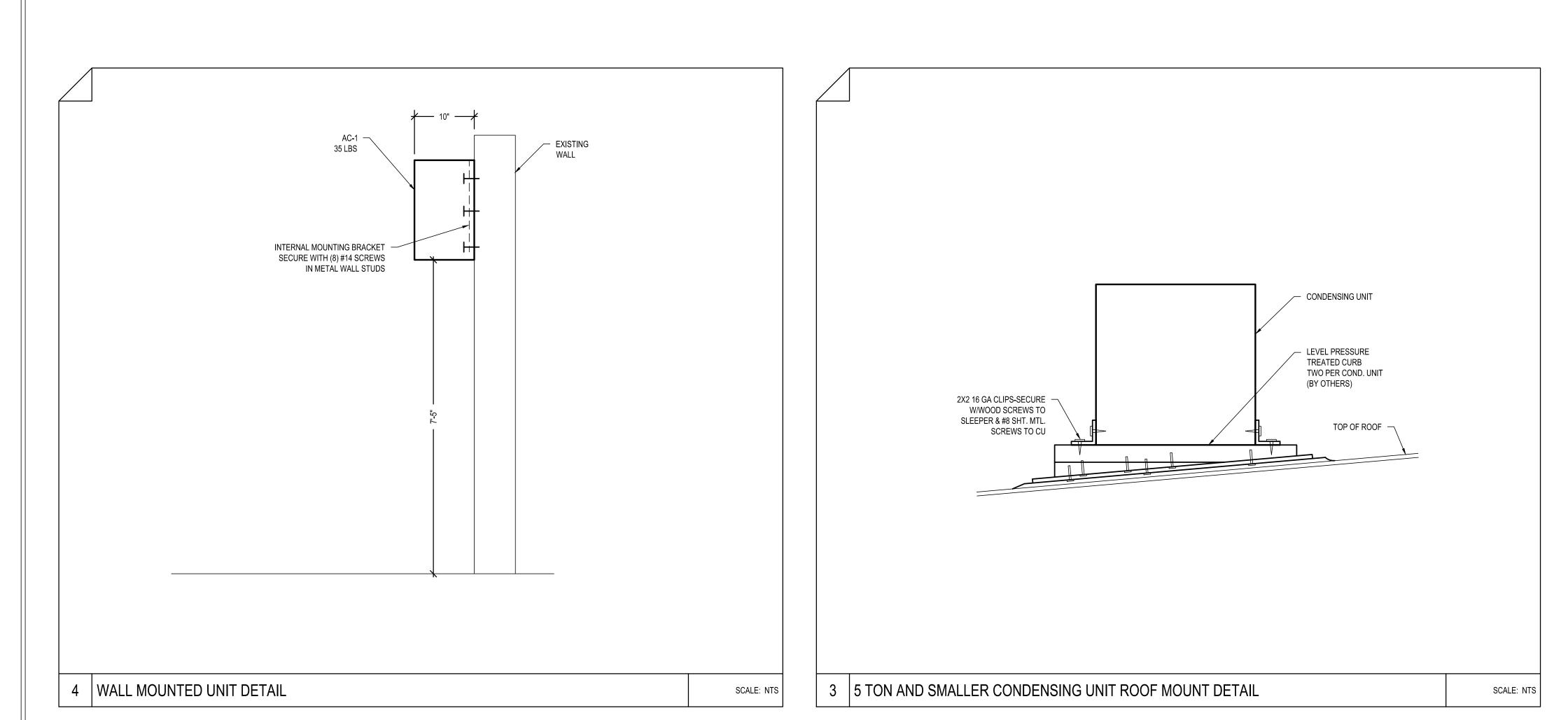
													SPI	IT SYSTE	EM INDO	OR UNIT AND	OUTDOOR (JNIT SCHED	ULE												
TAG	NEW OR EXISTING	MANUFACTURER	INDOOR MODEL NO.	LOCATION	NOMINAL CAPACITY (TONS)	CFM	ESP (" OF H₂O)	AIR SIDE W	EAT DB	(°F)	ELEC V/PH/HZ	FLA M	MENTS CA (A) EMERG. POWER	OPERATING WEIGHT (LBS)	TAG	MANUFACTURER	OUTDOOR MODEL NO.	LOCATION	NOMINAL CAPACITY (TONS)	SEER	REFRIGERANT	CAPACITY (MBH)	COMPRESSOR TYPE	COMPRESSOR COMPRESSOR QTY	AMBIENT TEMP (°F)	AIRFLOW (CFM)	V/PH/HZ	ELECTRICAL RE	EQUIREMENTS MOCP	EMERG. POWER	OPERATING WEIGHT (LBS)
AC-1	N	MITSUBISHI	PKA-A18HA7	MOTHER'S ROOM	1.5	350	N/A	30.0	80	67	208/1/60	0.33	1.0 NO	35	AC-1	MITSUBISHI	PUZ-A18NKA	ROOF	1.5	18.5	R-410A	18.0	RECIPROCATING	1	95	-	208/1/60	11.00	28.0	NO	115

		PIPING INSU	JLATION TH	ICKNESS RI	EQUIREMEN	NTS				
•	CONDUCTIVITY	INSULATION MEAN		NOMIN	IAL PIPE DIAMETER (IN	CHES)				
FLUID TEMPERATURE RANGE (°F)	RANGE (BTU-inch per hour per square foot per	RATING TEMPERATURE (°F)	<1	< 1 1 to < 1.5 1.5 to < 4 4 to < 8						
	[, ,		INSULATIO	N THICKNESS REQUIRE	D (INCHES)				
	-	SPACE COOLING	SYSTEMS (CHILLED W	/ATER, REFRIGERANT,	AND BRINE)					
40 - 60	0.21 - 0.27	75	0.5	1.0	1.0	1.0	1.0			
BELOW 40	0.20 - 0.26	50	1.0	1.5	1.5	1.5	1.5			

P	PIPING MATERIAL	SCHEDULE	
SYSTEM	ABBREVIATION	SIZE	MATERIAL
REFRIGERANT PIPING GAS/LIQUID	REFRIG.	ALL	COPPER TYPE "ACR"
CONDENSATE DRAIN	CD	1-1/4" OR SMALLER	COPPER TYPE "M"



1 MECHANICAL FLOOR PLAN - NEW SCALE: 1/2"="	1	MECHANICAL FLOOR PLAN - NEW	SCALE: 1/2"=1'-(,"
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GENERAL NOTES:

A. ONLY THOSE ITEMS SHOWN BOLD ARE PART OF THIS ISSUANCE.

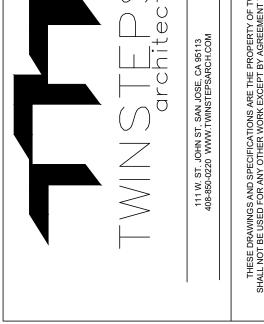
B. ONLY THOSE KEYNOTES WITH CORRESPONDING TAGS ON THIS DRAWING APPLY.



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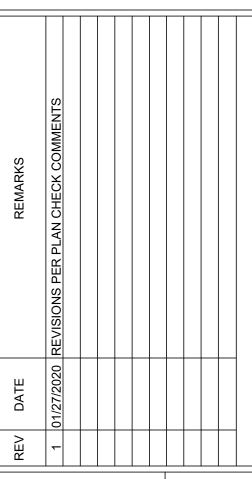
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- 1. CONNECT TO (E) EXHAUST FAN.
- 2. TRANSFER AIR FROM CONDITIONED SPACE.
- 3. SPLIT SYSTEM OUTDOOR UNIT ON ROOF.



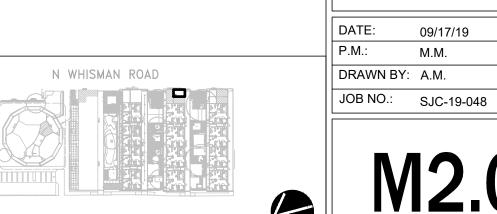


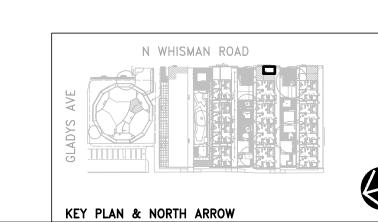




GOOGLE, INC.
1212 BORDEAUX DR
SUNNYVALE, CA 94(
MECHANICAL FLOOR PLAN, F
SCHEDULES, AND P.

N WHISMAN ROAD







		LIGHTING FIXTURE SCHE	DULE		
TYPE	DESCRIPTION	MANUFACTURER	VOLTAGE	WATTS	NOTES
D1	RECESSED 4" SQUARE DOWNLIGHT, LED, 4000K 0-10V DIMMING, 1000LM	GE: DI4SW109401V10 / RDI4SWWSPMR / BH3	120V	14W	
D1E	SAME AS TYPE 'D1', WITH MIN. 90 MINUTE BATTERY BACK UP	GE: DI4SW109401V10EL / RDI4SWWSPMR / BH3	120V	14W	WITH MIN. 90 MINUTE BATTERY BACK UP
F1	4' WRAPAROUND FIXTURE, LED, 4000K 2900LM	LITHONIA LIGHTING: FMLWL 48 840	120V	40W	PROVIDE WITH WIRE GUARD: WGCUN/NST
WS	WALL SCONCE, LED, 2700K 0-10V DIMMING, 1700LM	CATELLANI & SMITH: LEDERAM W1-17 LW1173	120V	17W	
X	EXIT LIGHT, LED WITH MIN. 90 MINUTE BATTERY BACK UP	MATCH BUILDING STANDARD	120-277V	<5W	WITH MIN. 90 MINUTE BATTERY BACK UP
NOTES:					
1. PROVIDE SUBM	IITTALS FOR ENGINEER & ARCHITECT'S REVIEW. ALTERNATES AI	RE ACCEPTABLE ON A FOR EQUAL BASIS.			
2. ALL LIGHTING F	FIXTURES SHALL BE PROVIDED WITH DISCONNECT PER NEC REC	QUIREMENTS.			
3. CONFIRM WITH	ARCHITECT ALL COLOR AND FINISH PRIOR TO ORDERING FIXTU	IRES.			

4. VERIFY WITH ARCHITECTURAL DRAWINGS FOR SPECIFIC MOUNTING HEIGHT REQUIREMENTS. ALL LIGHTING FIXTURES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND OTHER TRADES PRIOR TO ROUGH-IN.

#	SCOPE OF WORK
1	PROVIDE ELECTRICAL WORK AS PER PLAN.
2	PROVIDE RECEPTACLES, LIGHTING, CONTROLS, AND WIRING AS PER PLAN.
3	RE-USE EXISTING PANEL.

CAL GREEN BUILDING CODE REQUIREMENTS

TESTING AND ADJUSTING - TESTING AND ADJUSTING OF SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS OF EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL. PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING

BUILDING COMMISSIONING

OWNER SHALL PROVIDE (NOT INCLUDED IN BID):

OPERATION AND MAINTENANCE (O&M) MANUAL - PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER

- 1		
	SHEET	TITLE
	E0.0	ELECTRICAL GENERAL INFORMATION
	E1.0	ELECTRICAL OVERALL PLAN
	E3.0	ELECTRICAL ENLARGED LIGHTING & POWER PLAN
	E9.0	ELECTRICAL TITLE 24 FORMS
- 1		

DRAWING INDEX

ELECTRICAL DESIGN BUILD STATE OF CALIFORNIA

LICENSE #: C10 507852 EXPIRATION: 31 MAR 2022

LIGHTING FIXTURE SCHEDULE	SCALE	Ω
LIGHTING FIXTURE SCHEDULE	NONE	9

(E)P	ANE	EL C	:1		VOLTAGE 208Y/120V BUS RATING: 225A MAIN REQUIREMENT: 125A MLO	WIRE: PHA SE: TY PE:		3 NEMA-1	MOUNTING: AIC RATING: CONDITION:		_	NO1	TES:		
CKT#	NOTES	LOAD	СВ		LOAD DESCRIPTION	LOAD KVA	PHASE	LOAD KVA	LOAD DESC	₹PTION	CE	3	LOAD	NOTES	CKT#
			Р								Р	Т			
1		C	1	20	LTG - RM 2-1	0.80	Α	0.54	RECEP - RM 2-4		1	20	G		2
3		C	1	20	LTG - RM 2-2	0.70	В	0.54	RECEP - RM 2-4		1	20	G		4
5		C	1	20	LTG - RM 2-3	0.80	С	0.40	LTG - STORAGE	/CLOSETS	1	20	C		6
7		C	1	20	LTG - RM 2-4	0.60	Α	1.00	LTG/FAN - RM G		1	20	C		8
9		D	1	20	LC4 CONTROL/DISPLAY	0.30	В	1.00	LTG/FAN - RM K		1	20	C		10
11		G	1	20	RECEP - RM 2-3	0.54	С	1.00	DISHWASHER -	RM 2-3	1	20	D		12
13		G	1	20	RECEP - RM 2-3	0.54	Α	0.80	DISPOSAL - RM	2-3	1	20	D		14
15			1	20	SPARE		В	0.54	RECEP - RM 2-3		1	20	G		16
17		G	1	20	RECEP - RM L	0.36	С	1.00	REFRIGERATOR	R - RM 2-3	1	20	D		18
19		G	1	20	RECEP - RM G-K	0.72	Α		SPARE		1	20			20
21		С	1	20	LTG - MAINTENANCE SHED & GFCI - ROOF	0.41	В	0.50	CEILING FAN - F	RM 2-3	1	20	D		22
23		D	1	20	HAND DRYER - RM G	1.00	С		SPARE		1	20			24
25		D	1	20	HAND DRYER - RM G	1.00	Α	0.54	RECEP - RM 2-3		1	20	G		26
27		D	1	20	HAND DRYER - RM K	1.00	В	1.00	DISHWASHER -	RM 2-4	1	20	D		28
29		D	1	20	HAND DRYER - RM K	1.00	С	0.80	DISPOSAL - RM	2-4	1	20	D		30
31		C	1	20	LTG - STORAGE/ELECTRICAL RM	0.40	Α	0.54	RECEP - RM 2-4		1	20	G		32
33		D	1	20	TOILETS	0.72	В	1.00	REFRIGERATOR	R - RM 2-4	1	20	D		34
35		D	1	20	TOILETS	0.72	С	0.54	RECEP - RM 2-4		1	20	G		36
37			1	20	SPARE		Α	0.50	CEILING FAN - F	RM 2-4	1	20	D		38
39			1		SPARE		В	0.10	SPARE - RM 2-4		1	20	D		40
41			1	20	SPARE		С		SPARE		1	20			42
CONN		LOA	D:							DEM AND LOAD CALCULATION	ON				
PHA SE					7.98 KVA	DEMAND LO			SUBTOTAL	NEC DEMAND FACTOR					
PHASE					7.81 KVA	CONTINUOL		,	6.11	125%					63
PHA SE					8.16 KVA	DEDICATED			12.44	100%					.44
TOTAL	<u>L</u>				23.95 KVA	GENERAL F	RECEF	TACLE (G	5.40	100% of 1st 10kVA & 50% of	f remai	ning		5.	40
						INTERMITEN	IT EQ	UIPMENT (I	() 0.00	72%				0.	00
NOTES	<u>3:</u>					MECHA NICA	L EC	UIPMENT (M) 0.00	125% of largest motor & 100%	of rem	aining	1	0.	00
HL=PA	DLOC	KAB	LE H	ANE	DLE LOCK-OFF					TOTAL DEMAND KVA				25	.47
									1A	MPS @ 208Y/120V, 3 PHASE, 4	WIRE:			70	.71

5. PROVIDE ALL REQUIRED SEISMIC SUPPORT WIRES AND MOUNTING HARDWARE FOR PROPER INSTALLATION OF LIGHTING FIXTURES.

(E) l	PAN	EL I	01		VOLTAGE: 208Y/120\ BUS RATING: 225A MAIN REQUIREMENT: 125A MLC	F	WIRE: PHASE: TYPE:		4 3 NEMA-1	MOUNTING: AIC RATING: CONDITION:	10,000		NOT	ES:		
CKT#	NOTES	LOAD	СВ		LOAD DESCRIPTION		LOAD KVA	PHASE	LOAD KVA	LOAD DESC	RIPTION	CE	3	LOAD	NOTES	CKT#
			Р	Т								Р	, -			
1		C	1	20	LTG - INFANT RM 3-1		0.70	Α	0.54	RECEP - RM 3-4		1	20	G		2
3		C	1	20	LTG - INFANT RM 3-2		0.90	В	0.54	RECEP - RM 3-4		1	20	G		4
5		C	1	20	LTG - INFANT RM 3-3		0.90	С	0.00	STORAGE - CLC		1	20	G		6
7		C	1	20	LTG - INFANT RM 3-4		0.60	Α	0.00	LTG/FAN - RM R		1	20	C		8
9		D	1	20	LC3 - DISPLAY		0.40	В	0.12	LTG - MOTHER'S	7 0.700	1	20	С		10
11		G	1	20	RECEP - RM 3-3		0.54	С	1.00	DISHWASHER -		1	20	D		12
13		G	1	20	RECEP - RM 3-3		0.54	Α	0.00	DISPOSAL - RM		1	20	D		14
15			1	20	SPARE			В	0.07	RECEP - RM 3-3		1	20	G		16
17			1	20	SPARE			С	1.00	REFRIGERATOR	R - RM 3-3	1	20	D		18
19		G	1	20	RECEP - ROOM R-P		0.72	Α		SPARE		1	20			20
21		G	1	20	GFI ROOF		0.18	В	0.50	CEILING FAN - F	RM 3-3	1	20	D		22
23		G	1	20	RECEP - ABOVE COUNTER - MOTHER'S	RM	0.72	С		SPARE		1	20			24
25		D	1	20	U.C. FRIDGE & RECEPS - MOTHER'S RM		1.16	Α		RECEP - RM 3-3		1	20	G		26
27		D	1	20	HAND DRYER - RM Q		1.00	В	7.00	DISHWASHER -		1	20	D		28
29		D	1	20	HAND DRYER - RM Q		1.00	С	0.00	DISPOSAL - RM		1	20	D		30
31			1	20	SPARE			Α	0.07	RECEP - RM 3-4		1	20	G		32
33			1	20	SPARE			В	7.00	REFRIGERATO	R - RM 3-4	1	20	D		34
35			1	20	SPARE			С		RECEP - RM 3-4		1	20	G		36
37			1	20	SPARE			Α	0.50	CEILING FAN - F	RM 3-4	1	20	D		38
39			1	20	SPARE			В		SPARE		1	20			40
41			1	20	SPARE			С		SPARE		1	20			42
	NECTE	D LO	AD.		. 7.44 10/4		M NID I C)		CLIDTOTAL	DEM AND LOAD CALCULAT	ION		1		
PHAS					7.44 KVA 6.18 KVA		MAND LC	No. 1280-10	M D (C)	SUBTOTAL	NEC DEMAND FACTOR 125%				5	03
							VINUOU			4.02					-	
PHAS					6.86 KVA		CATED		` '	10.16	100%	of rom-	nina			.16
TOTA	4L				20.48 KVA				TACLE (G	,	100% of 1st 10kVA & 50%	oi remail	ning			30
No.									JIPMENT (F		72%					00
NOTI		OL 4 5		1A & !-	N E L 001/ 0EE	IMEC	CHA NICA	L EQ	UIPMENT ((M) 0.00	125% of largest motor & 100%	% of rem	aining			00
HL=F	ADLC	CKAL	JLE I	HA NL	DLE LOCK-OFF					12.1	TOTAL DEMAND KVA			_		.49
										Α	MPS @ 208Y/120V, 3 PHASE, 4	4 WIRE:			59	64

ELECTRICAL PANEL SCHEDULE

DETAIL NOTES:

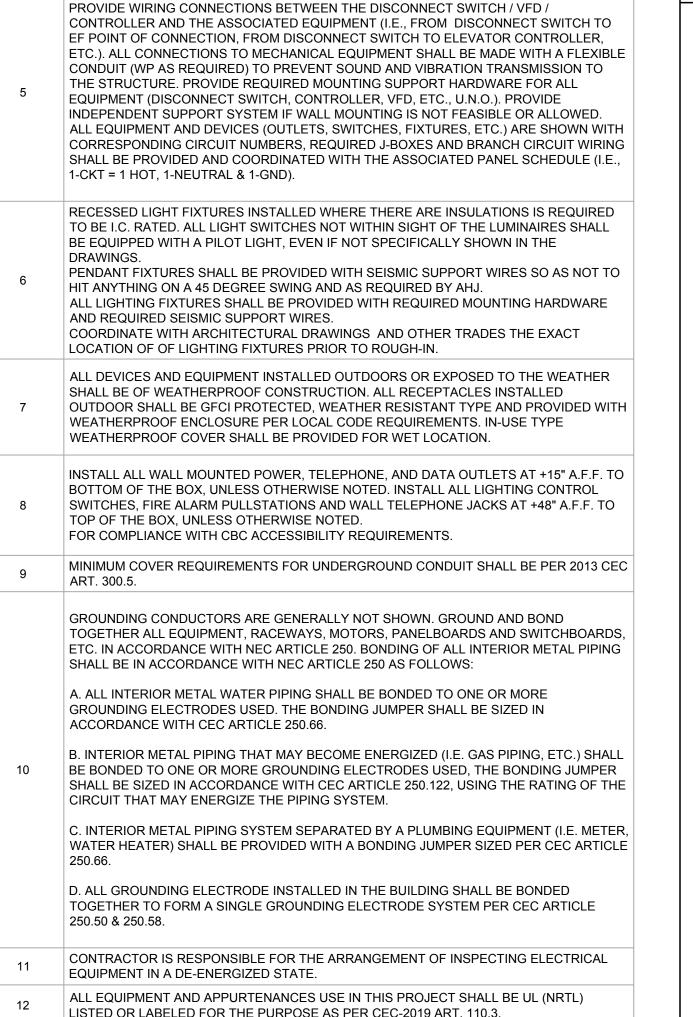
KEY NOTES (-)

1. ALL ELECTRICAL EQUIPMENT AND FEEDERS ARE EXISTING, U.O.N.

2. ALL GROUNDING ELECTRODE SYSTEMS ARE EXISTING AND ARE TO REMAIN.

С	INSPECTIONS AND REPORTS - INCLUDE A COPY OF ALL INSPECTION AND REPORTS, REQUIRED BY THE ENFORCING AGENCY.	ONS, VERIFICATIONS,										
O 4 1		SCALE										
CAL	GREEN BUILDING REQUIREMENTS	NONE										
	OFNEDAL MOTEO											
	GENERAL NOTES											
#	DESCRIPTION											
1	ALL WORK SHALL BE DONE IN ACCORDANCE WITH 2019 CEC, 2019 CEC, PART 6 & 2019 T24, 2019 ADA STANDARDS FOR ACCESSIBLE											
THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTIALL OF THE ARCHITECTURAL DETAIL OR SPECIFICS OF ELECTRICAL CONTAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. PRIOR TO ROUGH-IN, CONTRACTOR TO REVIEW ALL SUBMITTALS OF ECONTRACTOR TO PROVIDE PULL/SPLICE BOXES, CONDUIT BODIES (MOCONDUIT INSTALLATION AND AVOID CONFLICT WITH OTHER TRADES. AS CEILING, ROOF PENETRATIONS SHALL BE COORDINATED WITH THE RESTRADES. PROVIDE REQUIRED FIRE CAULKING & PATCHING.												
3	EXACT LOCATION OF DISCONNECT SWITCH, ROOF PENETRATIONS POINT OF CONNECTIONS, ETC. SHALL BE COORDINATED WITH OT APPLICABLE SHOP DRAWINGS (I.E. COORDINATE ELEVATOR PIT L ELEVATOR SHOP DRAWINGS, COORDINATE HVAC DISCONNECT SYMECHANICAL DRAWINGS, ETC.)	ATIONS, LIGHTING FIXTURES ITH OTHER TRADES OR R PIT LIGHTING WITH										
4	ALL EQUIPMENT SHALL BE LISTED AND SHALL BE INSTALLED AS FINSTALLATION INSTRUCTION FOR ALL UL LISTED EQUIPMENT SHATO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION, ALL EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATH WEATHERPROOF CONSTRUCTION. ALL RECEPTACLES SHALL CONEDITION OF THE N.E.C., EVEN IF NOT SPECIFICALLY IDENTIFIED IN AFCI, TAMPER RESISTANT, HOSPITAL GRADE, ETC.)	LL BE MADE AVAILABLE DEVICES AND ER SHALL BE OF MPLY WITH THE LATEST										
5	PROVIDE WIRING CONNECTIONS BETWEEN THE DISCONNECT SW CONTROLLER AND THE ASSOCIATED EQUIPMENT (I.E., FROM DISCEPPOINT OF CONNECTION, FROM DISCONNECT SWITCH TO ELEV. ETC.). ALL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE CONDUIT (WP AS REQUIRED) TO PREVENT SOUND AND VIBRATION THE STRUCTURE. PROVIDE REQUIRED MOUNTING SUPPORT HAR EQUIPMENT (DISCONNECT SWITCH, CONTROLLER, VFD, ETC., U.N INDEPENDENT SUPPORT SYSTEM IF WALL MOUNTING IS NOT FEATALL EQUIPMENT AND DEVICES (OUTLETS, SWITCHES, FIXTURES, ECORRESPONDING CIRCUIT NUMBERS, REQUIRED J-BOXES AND BIS SHALL BE PROVIDED AND COORDINATED WITH THE ASSOCIATED 1-CKT = 1 HOT, 1-NEUTRAL & 1-GND).	CONNECT SWITCH TO ATOR CONTROLLER, MADE WITH A FLEXIBLY TRANSMISSION TO DWARE FOR ALL .O.). PROVIDE SIBLE OR ALLOWED. ETC.) ARE SHOWN WITH RANCH CIRCUIT WIRING										
6	RECESSED LIGHT FIXTURES INSTALLED WHERE THERE ARE INSULTO BE I.C. RATED. ALL LIGHT SWITCHES NOT WITHIN SIGHT OF TH BE EQUIPPED WITH A PILOT LIGHT, EVEN IF NOT SPECIFICALLY SHORAWINGS. PENDANT FIXTURES SHALL BE PROVIDED WITH SEISMIC SUPPORTHIT ANYTHING ON A 45 DEGREE SWING AND AS REQUIRED BY AHALL LIGHTING FIXTURES SHALL BE PROVIDED WITH REQUIRED MO AND REQUIRED SEISMIC SUPPORT WIRES. COORDINATE WITH ARCHITECTURAL DRAWINGS AND OTHER TRALOCATION OF OF LIGHTING FIXTURES PRIOR TO ROUGH-IN.	E LUMINAIRES SHALL HOWN IN THE T WIRES SO AS NOT TO J. DUNTING HARDWARE										
	ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOS											

RELATED REGULATIONS.



SYMBOL	DESCRIPTION						
\$ a	WALL MOUNTED 1P, 20A SWITCH AND BOX. LOWER CASE LETTER INDICATES SWITCHI CONTROLLED BY SWITCH.						
ф	DUPLEX RECEPTACLE, 120V, 20A. TAMPER RESISTANT/AFCI IN DWELLING UNIT, HOSPITAL GRADE IN HEALTH CARE FACILITIES, (WP= WEATHERPROOF, IG= ISOLATED GROUND, CD=CORD DROP)						
\$	DUPLEX RECEPTACLE, 20A, 120V, GFCI						
φ φ	DUPLEX RECEPTACLE, ABOVE COUNTER, 20A, 120V, GFI AS REQUIRED COORDINATE WITH ARCHITECTURAL DWGS.						
₩ ₩	DOUBLE DUPLEX RECEPTACLE, 20A, 120V, GFI ABOVE COUNTER AS REQUIRED COORDINATE WITH ARCHITECTURAL DWGS.						
Ф	SHOW WINDOW RECEPTACLE, 20A, 120V. WITHIN 18" ABOVE WINDOW.						
中中中中	USB CHARGER AND TAMPER RESISTANT RECEPTACLE, 20A, 120V ABOVE COUNTER OR GFI AS REQUIRED.						
φ Φ	SINGLE RECEPTACLE, NEMA CONFIG. AS SHOWN						
P	POWER POLE. SEE DETAIL FOR MORE INFORMATION.						
Ф	FURNITURE POWER BASE FEED WITH S.S. COVER PLATE.						
Φ	TELECOM POWER BASE FEED WITH S.S. COVER PLATE.						
ㅁ	FUSED DISCONNECT SWITCH WITH DUAL ELEMENT FUSES PER EQUIPMENT NAME PLATE RATING.						
\boxtimes	FUSED DISCONNECT SWITCH WITH MOTOR STARTER AND DUAL ELEMENT FUSES PER EQUIPMENT NAME PLATE RATING.						
D,	NON-FUSIBLE DISCONNECT SWITCH.						
W	MOTOR OUTLET AND FLEX CONNECTION TO MOTOR.						
M	METER, METER SOCKET						
	CIRCUIT BREAKER						
⊣ I —	GROUNDING ELECTRODE SYSTEM: UFER, GROUND ROD, U.G. WATER PIPE, STRUCTURAL STEEL.						
©	SECURITY OUTLET: BOX + 1/2"C STUB TO CEILING SPACE						
Φ	FIRE BELL. S.A.D. FOR MOUNTING HEIGHT						
Ψ Ψ Ψ	DATA/TELEPHONE OUTLET						

]]		1
	LEGEND	SCALE NONE	2		MENTS	
				ARKS	F PER PLAN CHECK COMMENTS	
SYMBOL	DESCRIPTION			REMARKS	CHEC	
Α	AMPERE				LAN	
AIC	AMPERE INTERRUPTING CAPACITY				IR P	
AFF	ABOVE FINISHED FLOOR					
AWG	AMERICAN WIRE GAUGE				. 101 1	
С	CONDUIT				PERMIT REVISIO	
CU	COPPER				\neg	
D	ONE WAY DISTANCE OF FEEDER OR BRANCH CIRCUIT			DATE	10/07/2019 01/27/2020	
E	EXISTING			🐧	7/07/	
EC	ELECTRICAL CONTRACTOR				0 7	
EF	EXHAUST FAN			REV	7	
EM	EMERGENCY					
GFI	GROUND FAULT INTERRUPTER					
G, GND	GROUND					
IG	ISOLATED GROUND					
ISC	SHORT CIRCUIT CURRENT					
LV	LOW VOLTAGE				Ш	C
MC	MECHANICAL CONTRACTOR				DRIVE	Č
MCB	MAIN CIRCUIT BREAKER				Ξ	
MLO	MAIN LUG ONLY			\parallel , ;		
NEC	NATIONAL ELECTRICAL CODE				\times	
NL	NIGHT LIGHT, "ON" 24/7			∥ ≤		(
Р	POLE			نب ∥	` Z	•
PC	PLUMBING CONTRACTOR			II <u> </u>	E A	L
PH	PHASE			06	ORDEA	_
PROVIDE	FURNISH, INSTALL, CONNECT				N X	
R	REMOVE, DEMO					
RL	RELOCATE TO THIS NEW LOCATION			∥ ິບ	B	_
RR	REMOVE & RELOCATE				1212	_
RMC	RIGID METAL CONDUIT				7	=
SAD	SEE ARCHITECTURAL DRAWINGS				12	Ţ
SMD	SEE MECHANICAL DRAWINGS				` .	
SPD	SEE PLUMBING DRAWINGS					
TD	TIME DELAY					
UNO, UON	UNLESS NOTED OTHERWISE					
V	VOLTS					
VA	VOLT AMPERE			DATE:	09)/17/1
VD	VOLTAGE DROP			P.M.:	M.	М.
VFD	VARIABLE FREQUENCY DRIVE			DRAWN	NBY: A.	Μ.

DRIVE 94089

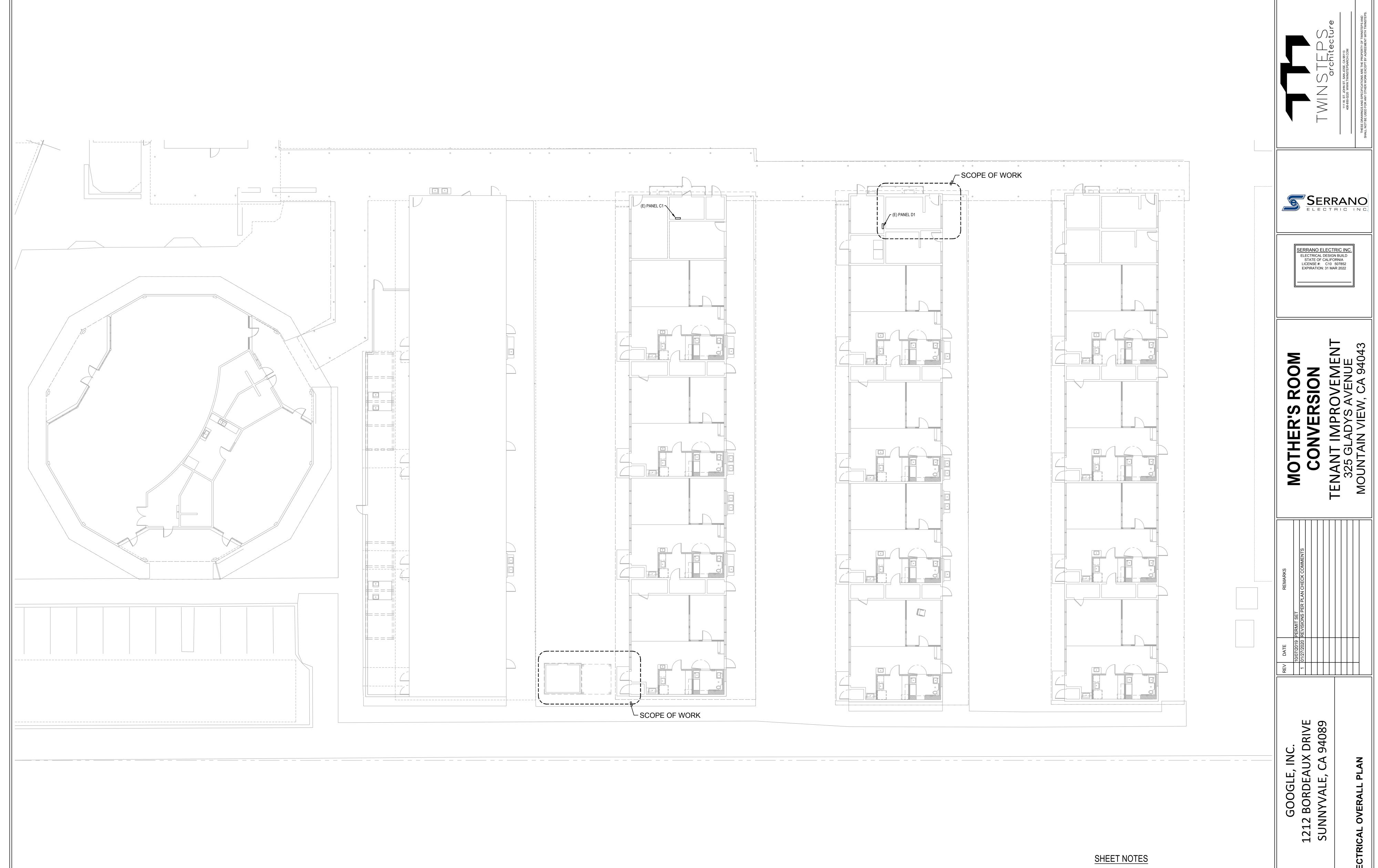
M.M.

10BNO: SIC 19,048 LISTED OR LABELED FOR THE PURPOSE AS PER CEC-2019 ART. 110.3. WEATHERPROOF 1 PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY. ALL ELECTRICAL CONDUCTOR MATERIAL SHALL BE COPPER. ALL OTHER MATERIALS +42 SUBSCRIPT LOCATED NEXT TO THE DEVICE MEANS 42" AFF TO CENTER OF DEVICE SHALL BE APPROVED BY THE ADMINISTRATIVE AUTHORITY. SCALE SCALE ELECTRICAL PARTIAL SINGLE LINE DIAGRAM GENERAL NOTES ABBREVIATIONS -NONE

(E) 2000A 400A (E) 400A (E) 3P (E) TO (E) UTILITY SERVICE TRANSFORMER		(E) MAIN SWITCHBOARD 'MSB' 2000A MCB, 208/120V, 3PH, 4W	/, NEMA-3R	
TO (E) UTILITY SERVICE TRANSFORMER		8	400A ((E)	(E)
(E) PANEL C (E) (E) (E) (E)	SERVICE:	TO (E) UTILITY TRANSFORMER	C	D

SCOPE OF WORK -

- SCOPE OF WORK



1. SEE E0.0, GENERAL NOTES.

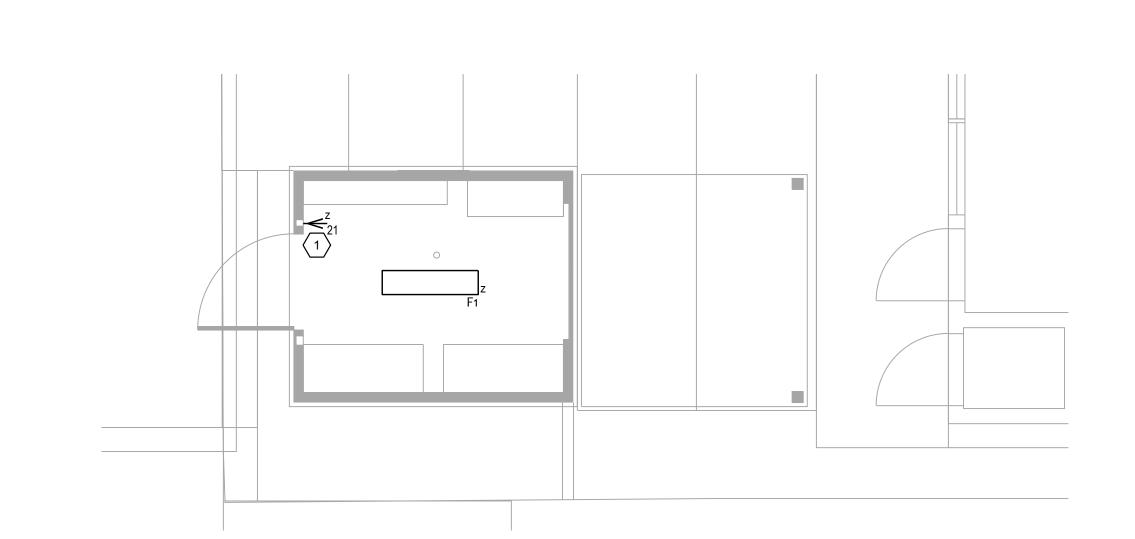
JOB NO.: S.IC-19-048

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.

ELECTRICAL OVERALL PLAN

SCALE

3/32" = 1'-0"



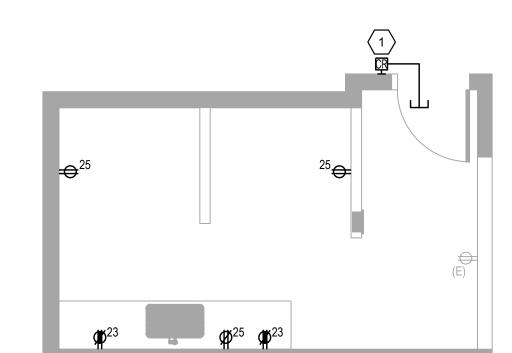
SHEET NOTES

- 1. SEE E0.0, GENERAL NOTES.
- 2. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING
- 3. MINIMUM SIZE WIRE SHALL BE #10 AWG THWN-2 CU UNLESS OTHERWISE NOTED.
- 4. ALL CIRCUITS FED FROM PANEL C1, U.N.O.

KEY NOTES (-)

1 20A, 120V, VACANCY SENSOR WITH MANUAL ON/FF CAPABILITY. COMPATIBLE WITH LIGHTING FIXTURE.

ELECTRICAL ENLARGED LIGHTING PLAN (MAINTENANCE SHED) NOT USED



———— SPACE———

SHEET NOTES

- 1. SEE E0.0, GENERAL NOTES.
- FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING ASSEMBLIES.
- 3. MINIMUM SIZE WIRE SHALL BE #10 AWG THWN-2 CU UNLESS OTHERWISE NOTED.
- 4. FIELD VERIFY EXACT LOCATION OF NEW RECEPTACLES PRIOR TO ROUGH-IN.
- 5. ALL OTHER RECEPTACLES ARE EXISTING TO REMAIN.
- 6. ALL CIRCUITS FED FROM PANEL D1, U.N.O.

KEY NOTES (-)

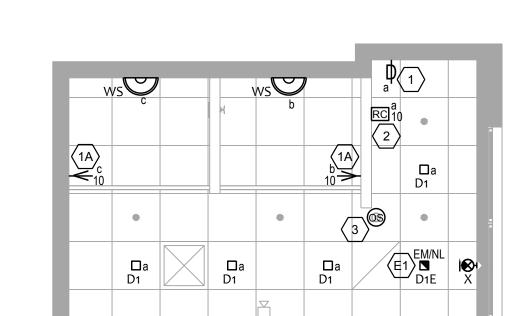
- 1 SECURITY CARD READER:
 PROVIDE 1G BOX @48"AFF TO TOP OF THE BOX.
 PROVIDE 1/2" CONDUIT STUB INTO PROTECTED SPACE.

SHEET NOTES

- 1. SEE E0.0, GENERAL NOTES.
- FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING ASSEMBLIES.
- 3. MINIMUM SIZE WIRE SHALL BE #10 AWG THWN-2 CU UNLESS OTHERWISE NOTED.
- 4. ALL CIRCUITS FED FROM PANEL D1, U.N.O.

KEY NOTES (-)

- 1 0-10V DIMMING WALLSTATION WITH MANUAL ON/OFF CAPABILITY. COMPATIBLE WITH ROOM CONTROLLER AND LIGHTING FIXTURE.
- 1A 20A, 120V, VACANCY SENSOR WITH MANUAL ON/FF CAPABILITY.
- 2 DIMMING ROOM CONTROLLER TO BE LOCATED IN ACCESSIBLE CEILING SPACE. COMPATIBLE WITH LIGHTING FIXTURE.
- E1 EMERGENCY / NIGHT LIGHT. CONNECT TO 24/7 EMERGENCY UNSWITCHED LIGHTING CIRCUIT.



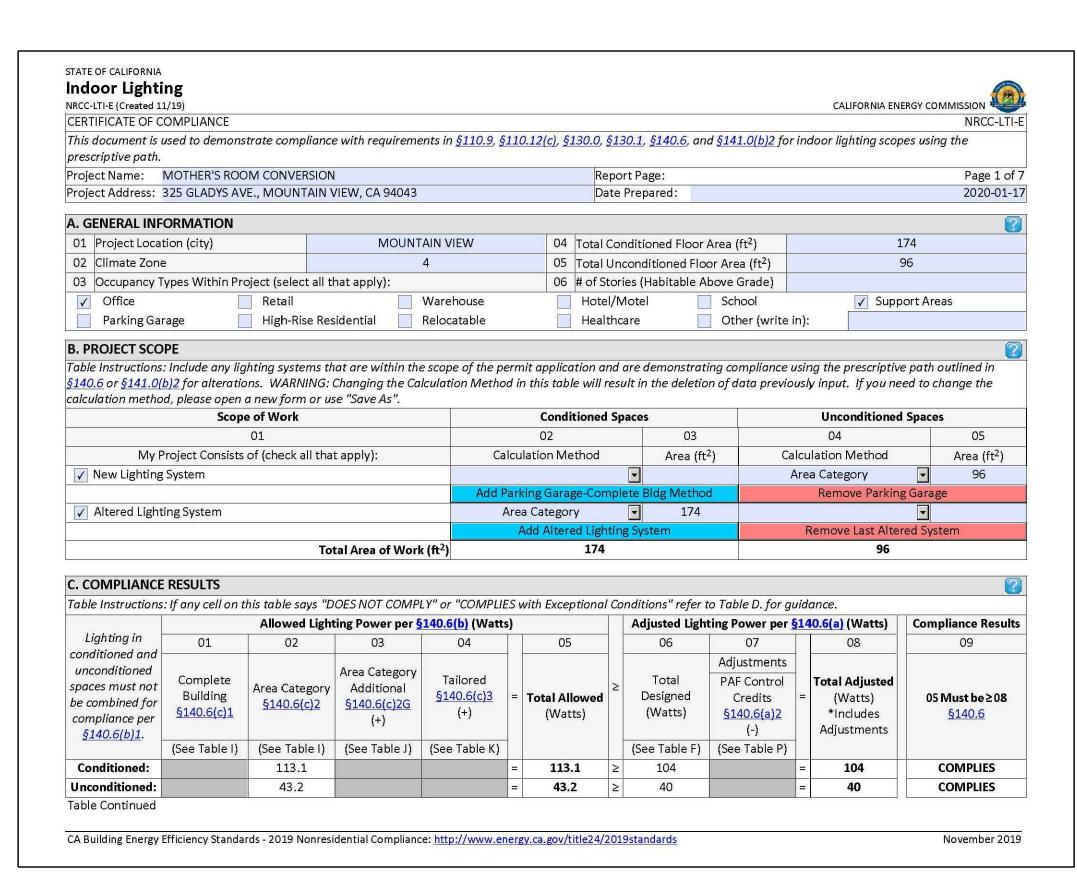
COMPATIBLE WITH LIGHTING FIXTURE.

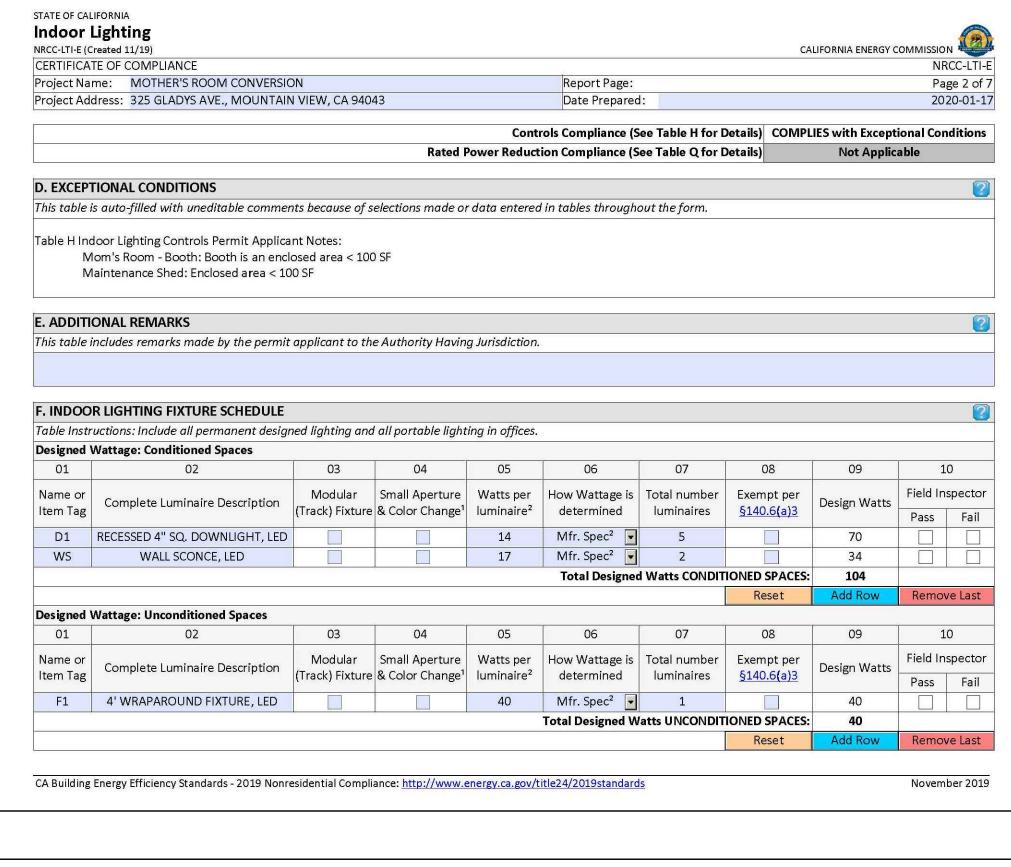
3 LOW-VOLTAGE, CEILING MOUNTED DUAL-TECH OCCUPANCY SENSOR. COMPATIBLE WITH ROOM COLLER AND LIGHTING FIXTURE.

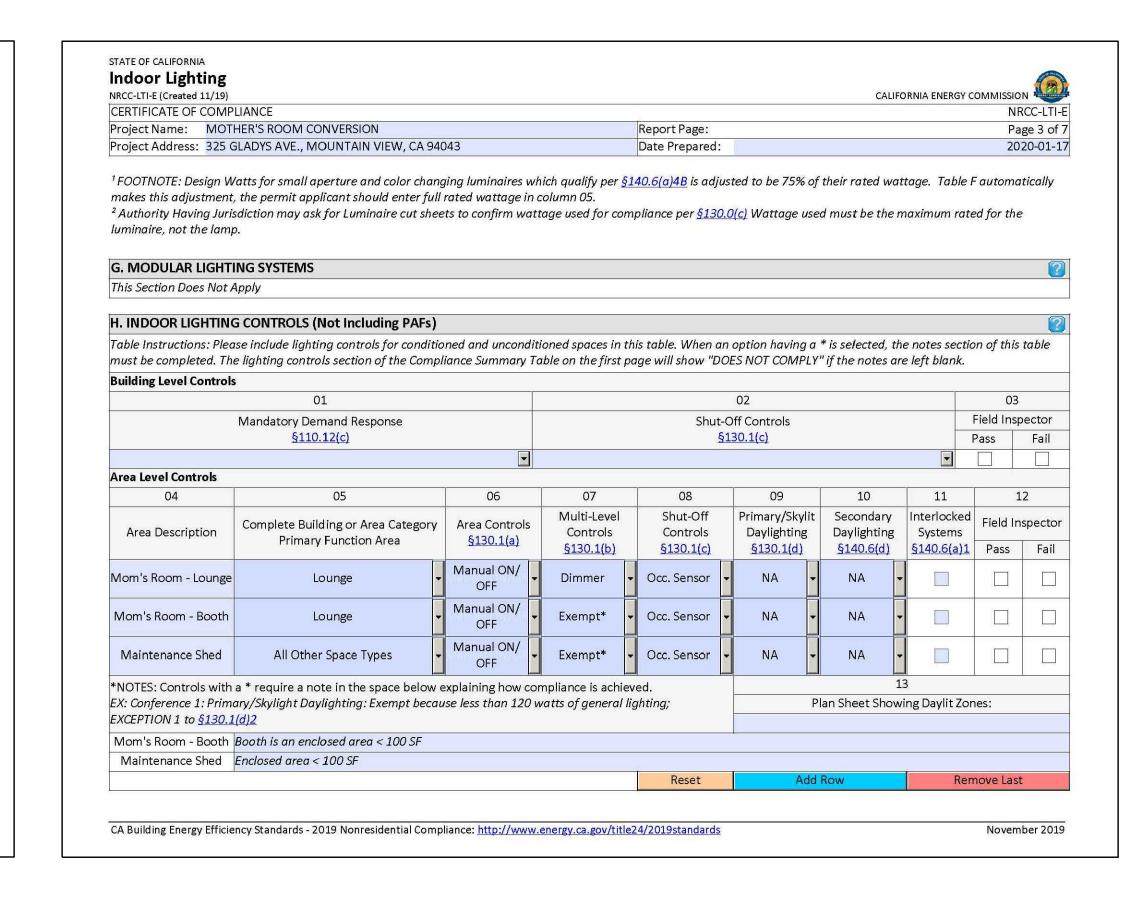
GOOGLE, INC. 2 BORDEAUX DRIVE NNYVALE, CA 94089 1212 B SUNN DATE: 09/17/19 P.M.: M.M. DRAWN BY: A.M. JOB NO.: SJC-19-048

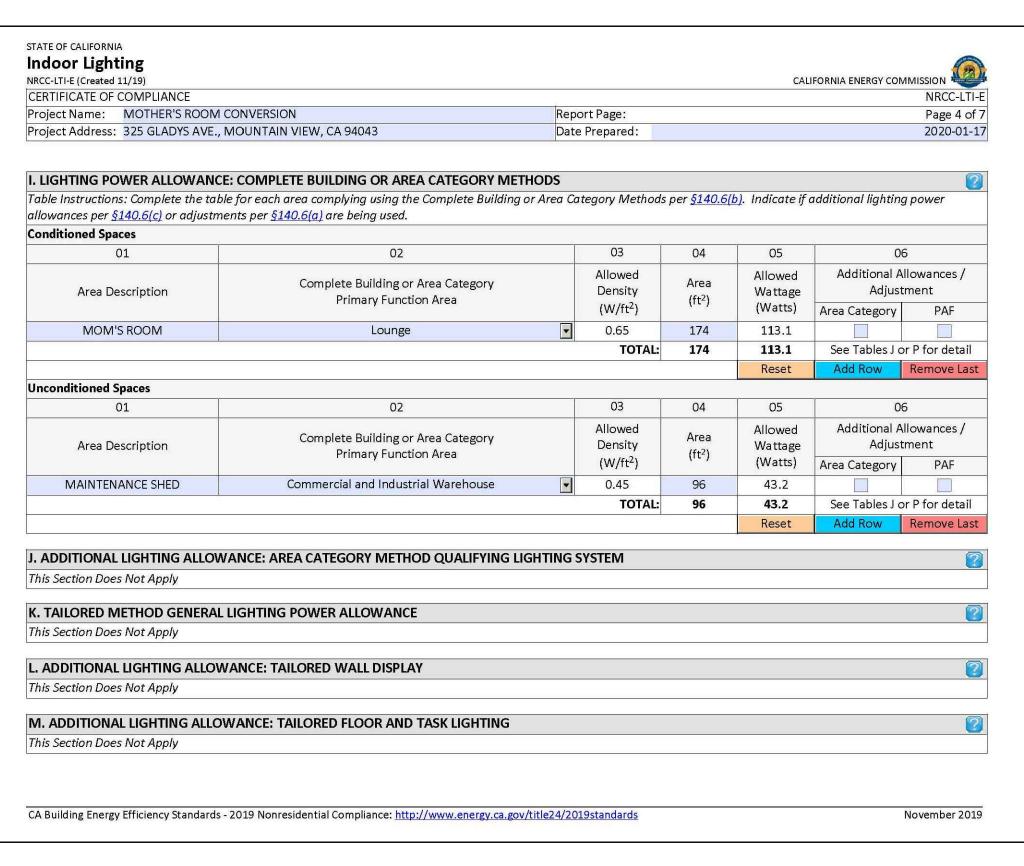
SERRANO ELECTRIC INC.
ELECTRICAL DESIGN BUILD
STATE OF CALIFORNIA
LICENSE #: C10 507852
EXPIRATION: 31 MAR 2022

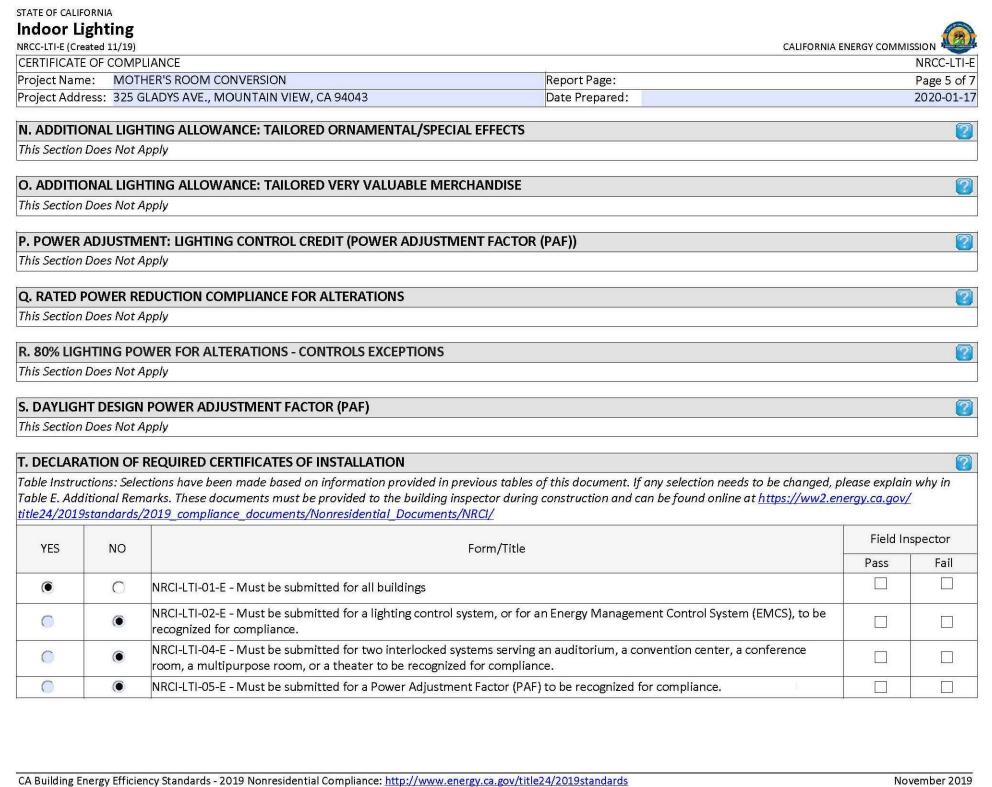
ELECTRICAL ENLARGED POWER PLAN (MOTHER'S ROOM) 1/4" = 1'-0" ELECTRICAL ENLARGED LIGHTING PLAN SCALE (MOTHER'S ROOM) 1/4" = 1'-0"

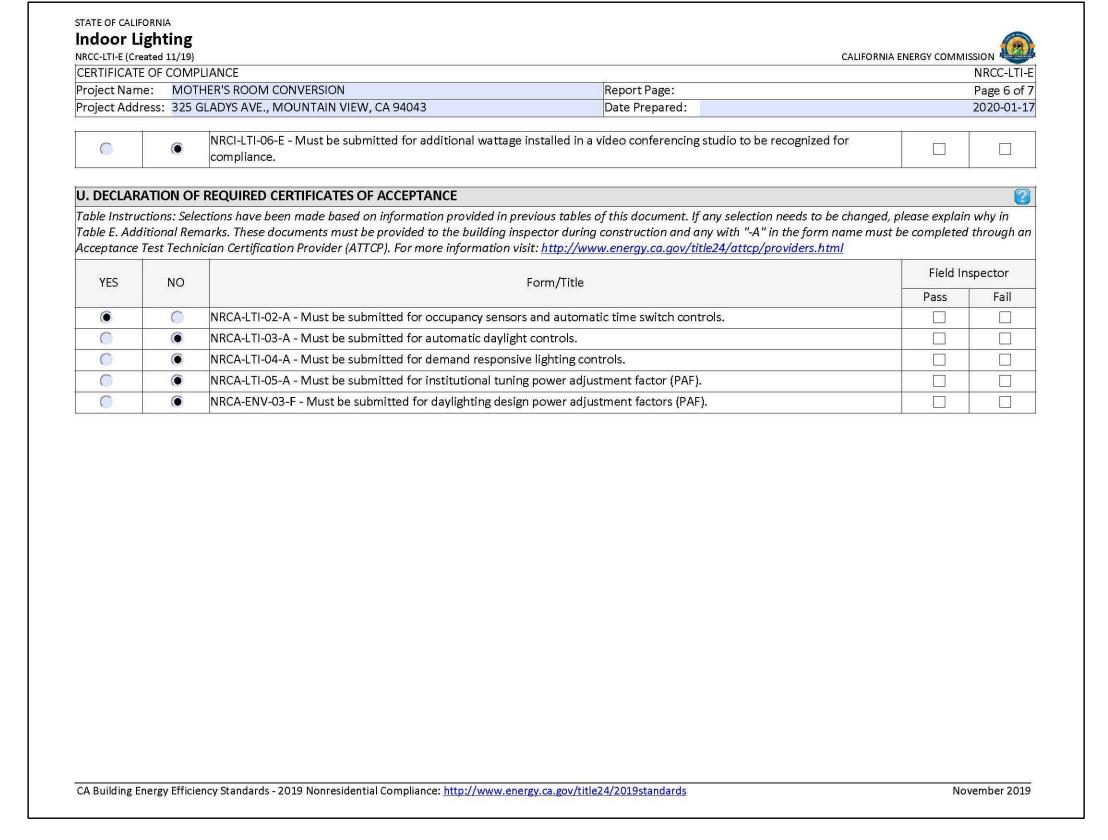


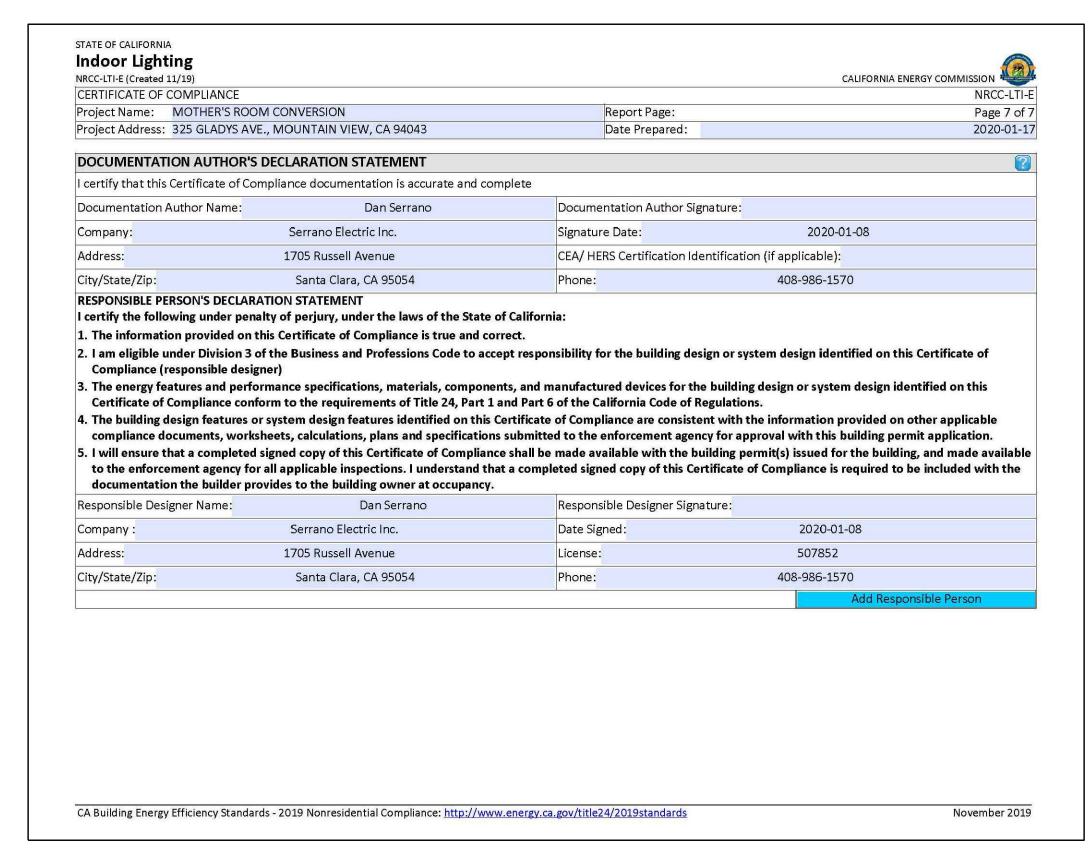


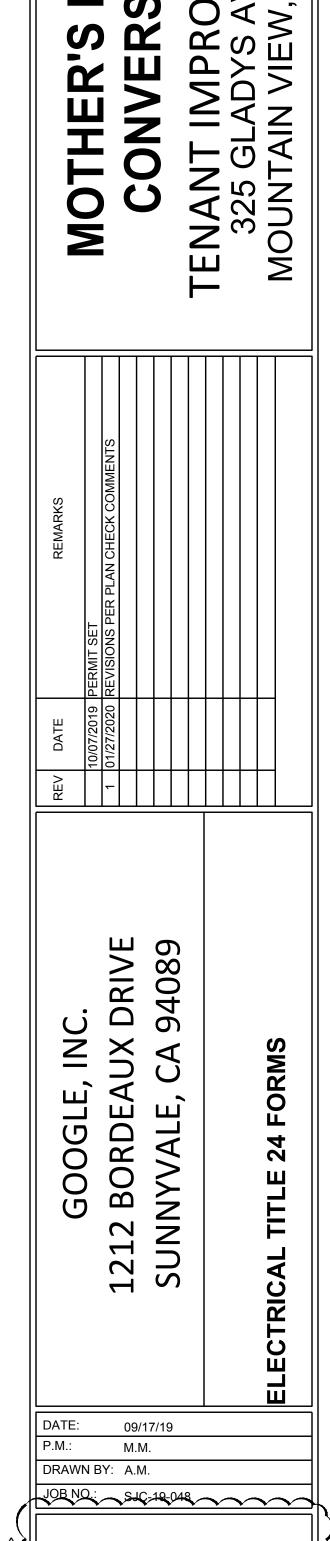










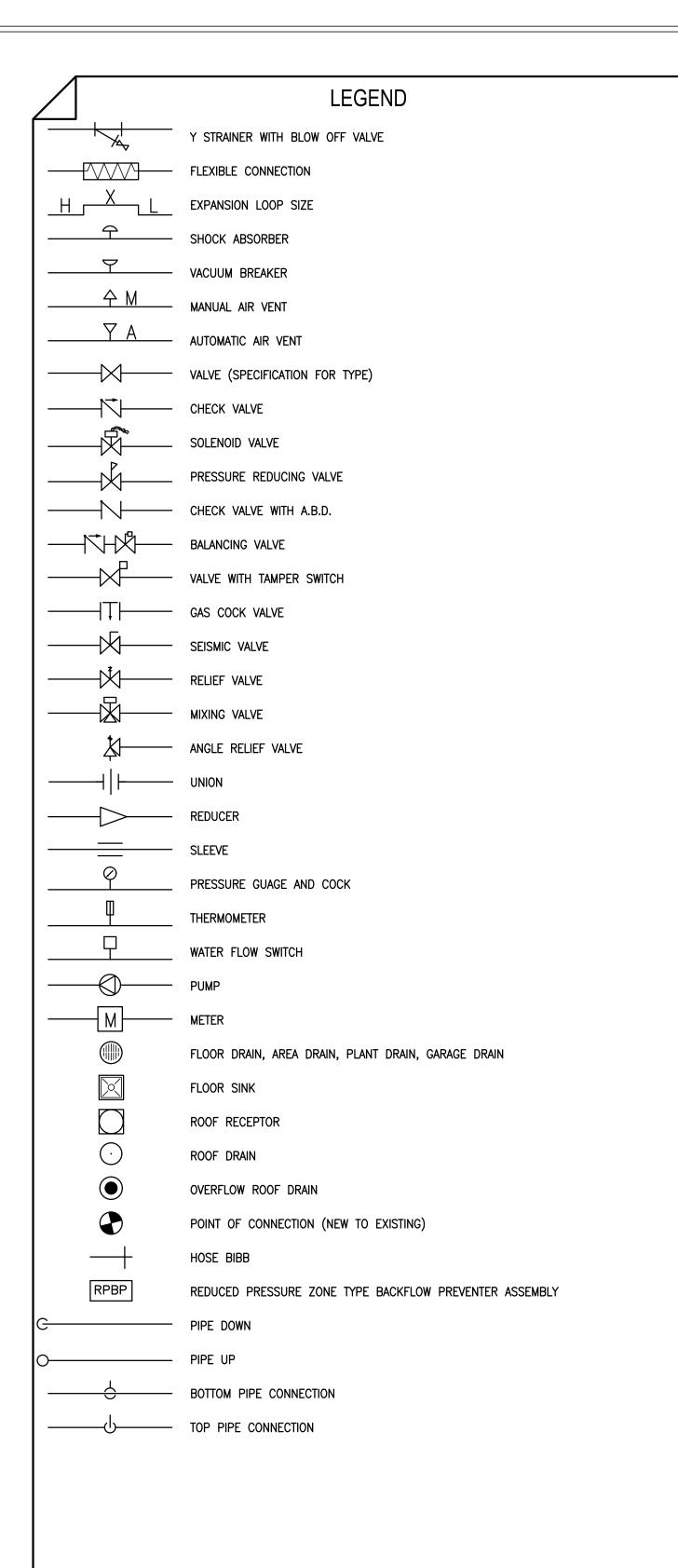


ELECTRICAL DESIGN BUILD

STATE OF CALIFORNIA

LICENSE #: C10 507852

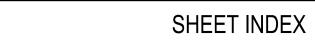
EXPIRATION: 31 MAR 2022



			MBING	FIXTUF	RE & EQ	UIPMENT SCHED	JLE
			MIN BRA	NCH SIZE		MANUFACTURER	
TAG	DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENT	& MODEL #	REMARKS
SK-1	MOTHERS ROOM SINK	1/2"	1/2"	2"	1 1/2"	US-ADA1830-A	STAINLESS STEEL SINGLE COMPARTMENT UNDERMOUNT SINK WITH DELTA 9159-DST 1.8 GPM FAUCET

	PIPING L	EGEND				
LINE	DESCRIPTION	MATERIAL TYPE				
ss	SANITARY SEWER PIPING ABOVE SLAB	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS				
v	VENT PIPING	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS				
ss	SANITARY SEWER BELOW SLAB	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS				
cw	COLD WATER ABOVE SLAB	TYPE L COPPER PIPE WITH 95/5 SOLDERED JOINTS				
cw	COLD WATER UNDER SLAB	SCH. 40 PVC PIPE AND FITTINGS				
HWS HWR	HOT WATER SUPPLY/HOT WATER RETURN	TYPE L COPPER PIPE WITH 95/5 SOLDERED JOINTS				
G	GAS	2" & SMALLER - GALVANIZED PIPE W/GALVANIZED MALLEABLE FITTINGS 2 1/2" & LARGER - SCH.40 CARBON STEEL W/BUTT WELD FITTINGS				
CD	CONDENSATE	TYPE M COPPER PIPE WITH 95/5 SOLDERED JOINTS				
—OF—	STORM DRAIN PIPING AND OVERFLOW PIPING	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS				

		Design Case W	ater Use Calculation						
Flush Fixtures	Daily Uses	Flowrate (GPF)	Duration (Flush)	Occupants	Water Use (Gallo				
Water Closet (Male)	1	1.28	1	106	136				
Water Closet (Female)	3	1.28	3	106	1,221				
Urinal (Male)	2	0.125	2	106	53				
Other Fixtures	Daily Uses	Flowrate (GPM)	Duration (Minutes)	Occupants	Water Use (Gallo				
Lavatory Faucet (Male)	3	0.5	0.25	212	80				
Kitchen Sink									
Mothers Sink	1	2	15	106	3,180				
	7	Fotal Daily Volume (Gallons)			6,365				
Annual Work Days									
Total Annual Volume (Gallons)									
		Baseline Case W	/ater Use Calculation		•				
Flush Fixtures	Daily Uses	Flowrate (GPF)	Duration (Flush)	Occupants	Water Use (Gallo				
Water Closet (Male)	1	1.6	1	106	170				
Water Closet (Female)	3	1.6	3	106	1,526				
Urinal (Male)	2	1	2	106	424				
Other Fixtures	Daily Uses	Flowrate (GPM)	Duration (Minutes)	Occupants	Water Use (Gallo				
Lavatory Faucet (Male)	3	0.5	0.25	212	80				
Kitchen Sink	1	2.5	4	212	2,120				
Mothers Sink	1	2.5	15	106	3,975				
Total Baseline Daily Volume (Gallons)									
		Annual Work Days			260				
Total Baseline Annual Volume (Gallons)									
	Total L	Saseline / filliaal volatile (Calit			2,156,570				



P0.00 PLUMBING SYMBOLS AND ABBREVIATIONS

P2.01 PLUMBING FLOOR PLANS SHEET NUMBERING KEY

 $\mathsf{X} \ \mathsf{X} \ \mathsf{X} \ \mathsf{X} \ \mathsf{X} \ \mathsf{X} \ \mathsf{X}$ AREA DESIGNATOR (IF REQUIRED) FLOOR LEVEL (PLANS), CONSECUTIVE NUMBER (NON-PLAN SHEETS)

TYPE DESIGNATOR (PLANS, SECTIONS, DETAILS, ETC.) DISCIPLINE (MECHANICAL, PLUMBING, ETC.)

CONSECUTIVE NUMBER (NON-PLAN SHEETS)

DISCIPLINE LEGEND SHEET TYPE LEGEND

1 SITE (PLANS) 2 FLOOR (PLANS) M MECHANICAL 1,2,3, etc. (SEE KEY PLAN) MP MECHANICAL PIPING P PLUMBING 3 SCHEDULES

PP PROCESS PIPING 4 ENLARGED PLANS xD DEMO

5 SECTIONS & DIAGRAMS 6 DETAILS 7 CONTROLS

An EMCOR Company
940 REMILLARD COURT, SAN JOSE, CALIFORNIA 95122
PHONE (408) 280-1666 FAX (408) 280-1020 LIC#855330

Air Systems



C. ALL CONDENSATE PIPING TO BE SLOPED 1/8" PER FOOT CMC SECTION 309 AND CPC SECTIO 803, 807 AND 814.

GENERAL NOTES

A. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED

B. ALL WASTE & VENT PIPING TO BE SLOPED 1/4" PER FOOT.

D. VENT PIPING TO TERMINATE 10' FROM ANY AIR INTAKE.

E. ALL PIPING TO BE SUPPORTED, SECURED, FASTENED TO STRUCTURE PER CPC 2016. F. SANITARY SEWER & VENT CLEAN-OUTS TO BE INSTALLED PER CPC 2016.

G. FIELD COORDINATE PLUMBING INSTALLATION WITH STRUCTURAL OR ARCHITECTURAL OBSTRUCTIONS.

H. ALL PENETRATIONS OF RATED WALLS AND FLOORS MUST BE PROTECTED AS REQUIRED BY THE BUILDING CODE WITH A LISTED AND APPROVED FIRE STOP PRODUCT. CBC SECTION 713.

I. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 5.303.6 CGBSC 5.303.6.

J. PLUMBING CONTRACTOR SHALL CONNECT TO SITE SEWER AND WATER CONNECTIONS 5 FOOT OFF BUILDING LINE. SEE CIVIL DRAWINGS FOR EXACT LOCATIONS AND INVERT ELEVATIONS.

K. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED PLAN LOCATION AND MOUNTING HEIGHTS FOR

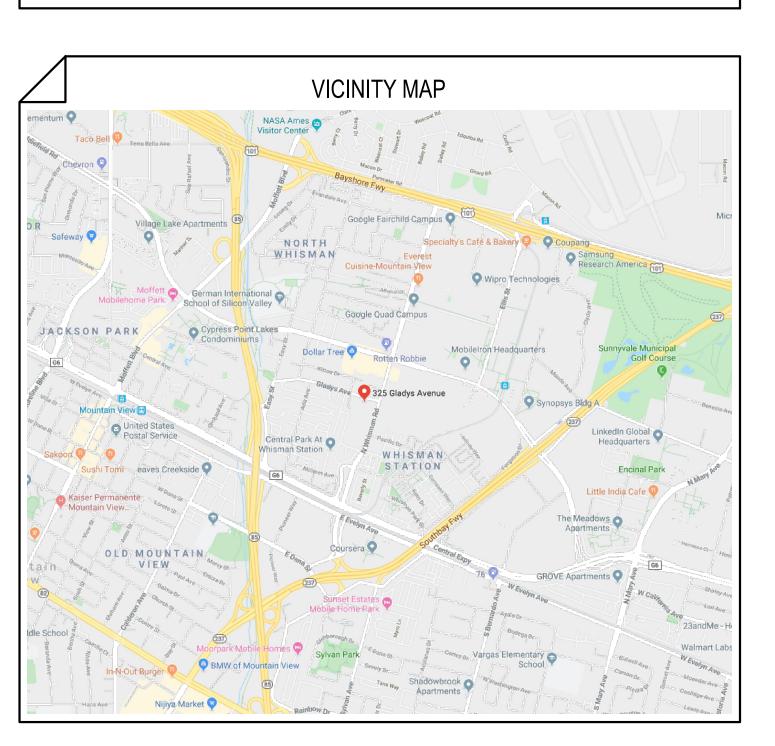
L. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES PRIOR TO ROUGH IN AND INSTALLATION. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE PLUMBING DRAWINGS SHOULD ANY CONFLICTS

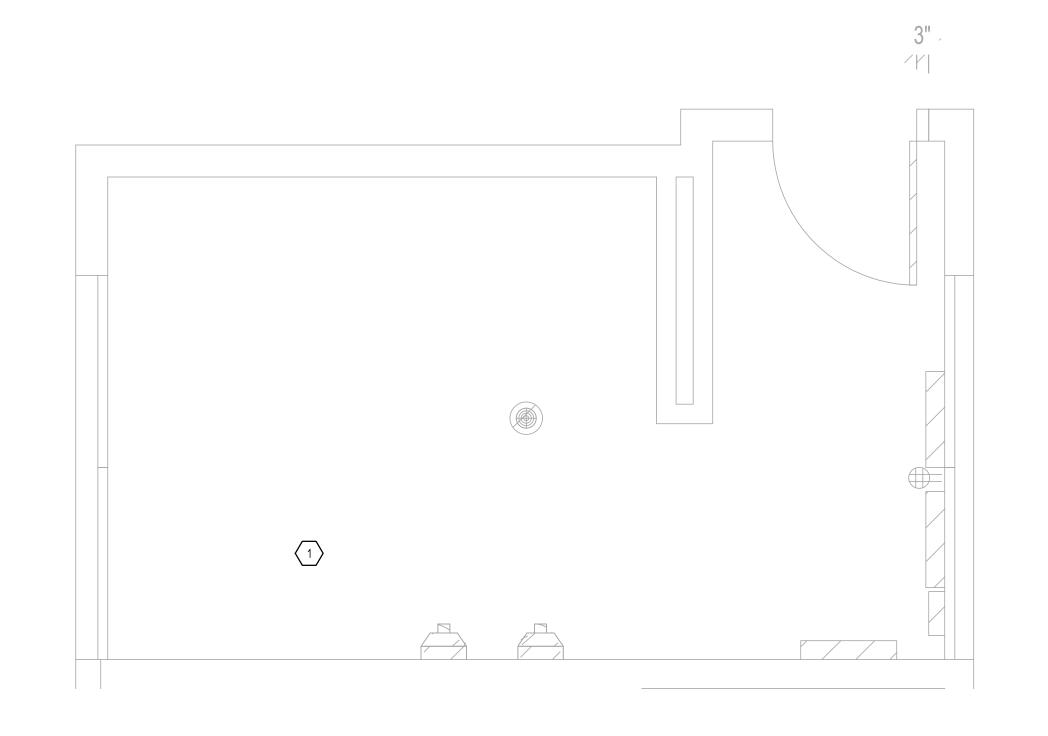
M. ALL HOSE BIBBS SHALL BE EQUIPPED WITH APPROVED NON-REMOVABLE BACKFLOW PREVENTION DEVICES.

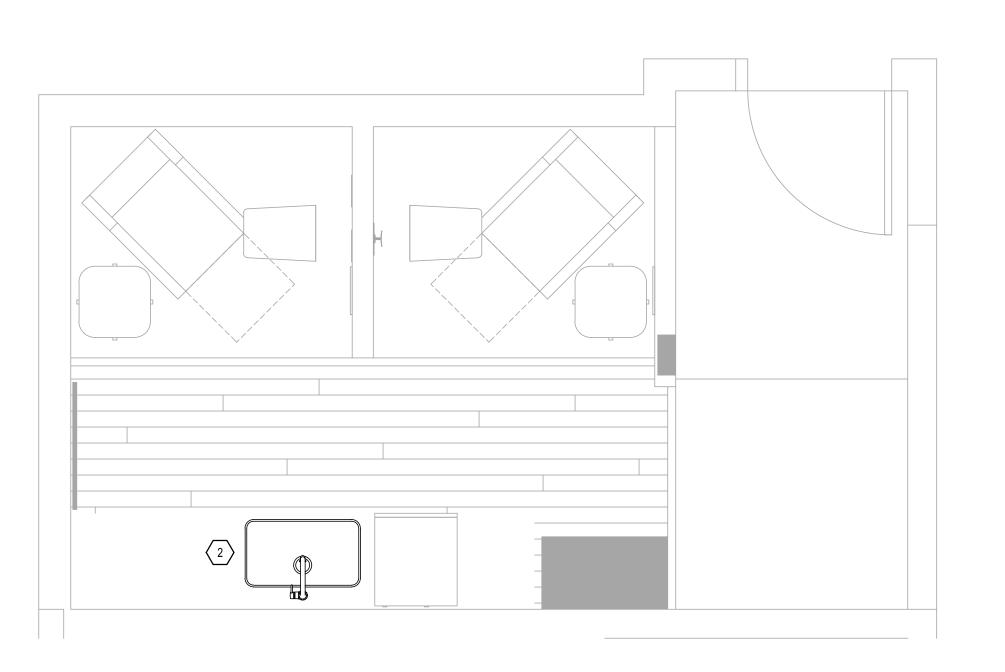
N. CONTRACTOR SHALL COORDINATE INSTALLATION WITH WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCESSING WITH WORK IN THAT AREA.

GOOGLE, INC.
1212 BORDEAUX DRI
SUNNYVALE, CA 940
PLUMBING SYMBOLS A
ABBREVIATIONS

DRAWN BY: A.M. JOB NO.: SJC-19-048







2 PLUMBING FLOOR PLAN - NEW

PLUMBING FLOOR PLAN - DEMO

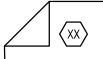
SCALE: 1/2"=1'-0"

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

GENERAL NOTES:

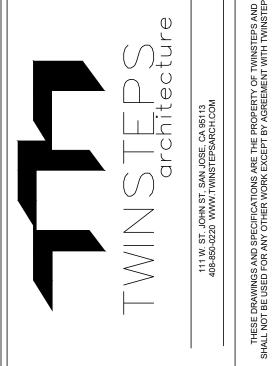
A. ONLY THOSE ITEMS SHOWN BOLD ARE PART OF THIS ISSUANCE.

B. ONLY THOSE KEYNOTES WITH CORRESPONDING TAGS ON THIS DRAWING APPLY.



SHEET NOTES:

1. SAFE OFF AND CAP EXISTING PLUMBING LINES. INSTALL NEW SINK AND FAUCET. CONNECT TO EXISTING PLUMBING LINES.







MOUNTAIN VIEW, CA 94043

REMARKS	01/27/2020 REVISIONS PER PLAN CHECK COMMENTS						
	REVIS						
REV DATE	01/27/2020						
REV	1						
]

GOOGLE, INC. 1212 BORDEAUX DRIVE SUNNYVALE, CA 94089 PLUMBING FLOOR PLANS

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M. JOB NO.: SJC-19-048

