

## WIND DESIGN

- ## SEISMIC DESIGN

- ## BASIS OF DESIGN

## NAILING SCHEDULE

REINFORCING:

ALL REINFORCING AND EMBEDDED ITEMS SUCH AS PLATES, BOLTS, ETC. SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING GROUT OR CONCRETE. IN NO CASE SHALL ITEMS BE "WET SET" OR STABBED INTO UNSET GROUT OR CONCRETE. REINFORCING SHALL BE SECURED IN PLACE SO AS TO AVOID MOVEMENT DURING PLACEMENT.

## ICC-ES REPORT #

## OBSERVATION TABLE

Signature \_\_\_\_\_ License No. \_\_\_\_\_ Date \_\_\_\_\_

## GENERAL NOTES FOR STRUCTURAL OBSERVATION:

1. THE STRUCTURAL OBSERVER IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH THE INFORMATION BULLETIN CBC SECTION 1704 STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
2. THE OWNER SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE DEPARTMENT OF BUILDING AND RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE SAFETY STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.
3. THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER OR THE OWNER'S REPRESENTATIVE. A LETTER FROM THE OWNER, THE OWNER'S REPRESENTATIVE, OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT.
4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.
5. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE FOLLOWING STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.
6. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT OF THE STRUCTURAL OBSERVATION REPORT FORM INFORM.08 (PART 1) FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO THE PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY DEFICIENCY NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD TO VERIFY ITS COMPLETION BY HIM (HER), OR BY A REGISTERED DEPUTY INSPECTOR AT THE DISCRETION OF THE STRUCTURAL OBSERVER.
7. A FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR (WHEN PROVIDED) AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.
8. THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED STRUCTURAL DEPARTMENT OF BUILDING AND SAFETY BUILDING THE COUNTY OF LOS ANGELES OBSERVATION REPORT TO INSPECTOR.
9. WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
  - A) NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION BY SUBMITTING COMPLETED "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM INFORM.08 (PART 2)
  - B) CALL AN ADDITIONAL RECONSTRUCTION MEETING.
  - C) FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS. THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERTY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.
10. THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.

A.B.C.	_____	AGGREGATE BASE COURSE
A.F.F.	_____	ABOVE FINISHED FLOOR
ALT.	_____	ALTERNATE
A.B.	_____	ANCHOR BOLT
@	_____	AT (MEASUREMENT)
BM	_____	BEAM
B.F.F	_____	BELOW FINISHED FLOOR
B.O.B.	_____	BOTTOM OF BEAM
B.O.D.	_____	BOTTOM OF DECK
B.O.F.	_____	BOTTOM OF FOOTING
BRG	_____	BEARING
C.I.P.	_____	CAST IN PLACE
CJ	_____	CEILING JOIST
CJP	_____	COMPLETE JOINT PENETRATION
C.L.	_____	CENTERLINE
C.L.B.	_____	CENTERLINE OF BEAM
C.L.C.	_____	CENTERLINE OF COLUMN
C.L.F.	_____	CENTERLINE OF FOOTING
C.L.L.	_____	CENTERLINE OF LEDGER
C.L.W.	_____	CENTERLINE OF WALL
CLR	_____	CLEAR
CONC.	_____	CONCRETE
CONC C.J.	_____	CONCRETE CONTROL JOINT
CONC S.J.	_____	CONCRETE SAWCUT JOINT
C.M.U.	_____	CONCRETE MASONRY UNIT
CONN	_____	CONNECTION
CONT.	_____	CONTINUOUS
DEG	_____	DEGREE
D.L.	_____	DEAD LOAD
ø OR DIA.	_____	DIAMETER
DN	_____	DOWN
DWG(S)	_____	DRAWING(S)
E.O.S.	_____	EDGE OF SLAB
EQ	_____	EQUAL
EQUIP	_____	EQUIPMENT
EEXP. BOLT	_____	EXPANSION BOLT
EXP. JT (E.J.)	_____	EXPANSION JOINT
<b>E.W.</b>	_____	EACH WAY
F.F.	_____	FINISHED FLOOR
FJ	_____	FLOOR JOIST
F.O.M.	_____	FACE OF MEMBER
F.O.S.	_____	FACE OF STEEL
F.O.W.	_____	FACE OF WALL
GA	_____	GAGE
GALV	_____	GALVANIZED
G.S.N.	_____	GENERAL STRUCT'L NOTES
GLB	_____	GLUED-LAMINATED BEAM
I.F.W.	_____	INSIDE FACE OF WALL
HORIZ	_____	HORIZONTAL
K(KIP)	_____	1000 POUNDS
L.L.	_____	LIVE LOAD
LBS (#)	_____	POUNDS
LLH	_____	LONG LEG HORIZONTAL
LLV	_____	LONG LEG VERTICAL
LSH	_____	LONG SIDE HORIZONTAL
LSV	_____	LONG SIDE VERTICAL
MFR(S)	_____	MANUFACTURER(S)
MAS C.J.	_____	MASONRY CONTROL JOINT
MECH'L	_____	MECHANICAL
MLB	_____	MICROLAM BEAM
N/A	_____	NOT APPLICABLE
N.T.S.	_____	NOT TO SCALE
O.C.	_____	ON CENTER
<b>O.F.W.</b>	_____	OUTSIDE FACE OF WALL
OPP	_____	OPPOSITE
P.C.	_____	PRECAST CONCRETE
PLF	_____	POUNDS PER LINEAR FOOT
PREFAB	_____	PREFABRICATED
PSF	_____	POUNDS PER SQUARE FOOT
PSI	_____	POUNDS PER SQUARE INCH
REINF	_____	REINFORCING
RJ	_____	ROOF JOIST
RR	_____	ROOF RAFTER
SLH	_____	SHORT LEG HORIZONTAL
SLV	_____	SHORT LEG VERTICAL
SIM	_____	SIMILAR
SQ.	_____	SQUARE
STD	_____	STANDARD
T.L.	_____	TOTAL LOAD
T.O.B.	_____	TOP OF BEAM
T.O.D.	_____	TOP OF DECK
T.O.F.	_____	TOP OF FOOTING
T.O.L.	_____	TOP OF LEDGER
T.O.M.	_____	TOP OF MASONRY
T.O.P.	_____	TOP OF PLATE
T.O.AS.	_____	TOP OF STEEL
T.O.W.	_____	TOP OF WALL
TYP	_____	TYPICAL
U.N.O.	_____	UNLESS NOTED OTHERWISE
VERT	_____	VERTICAL
W.W.F.	_____	WELDED WIRE FABRIC
W/	_____	WITH
W/O	_____	WITHOUT

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## REVISIONS

No	DATE

PROPERTY- 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

## GENERAL NOTES

DRAWN

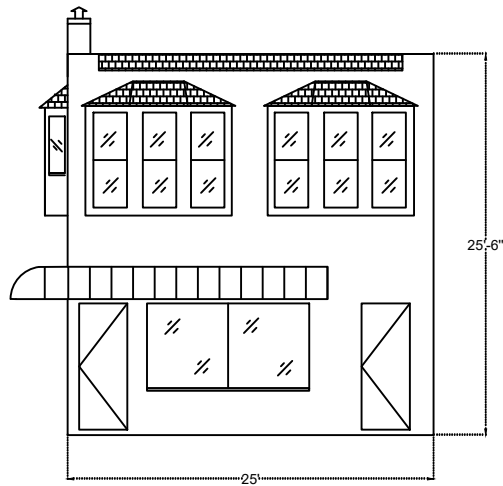
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DATE \_\_\_\_\_

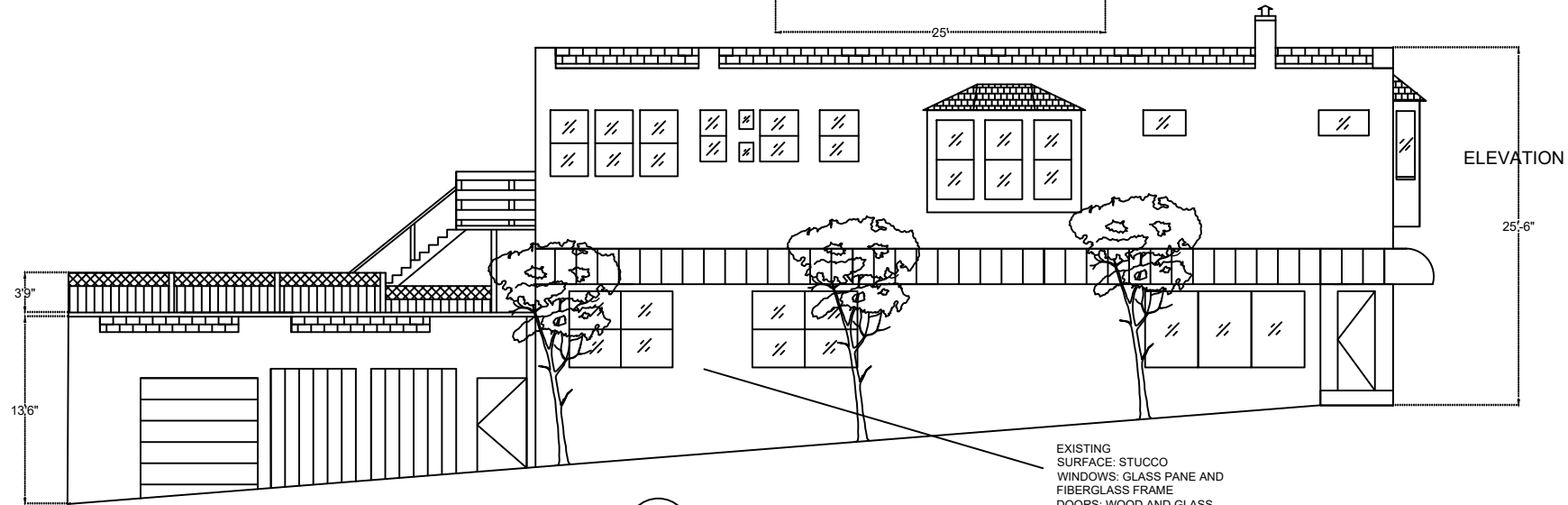
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**SHEET NUMBER**  
1 OF 20

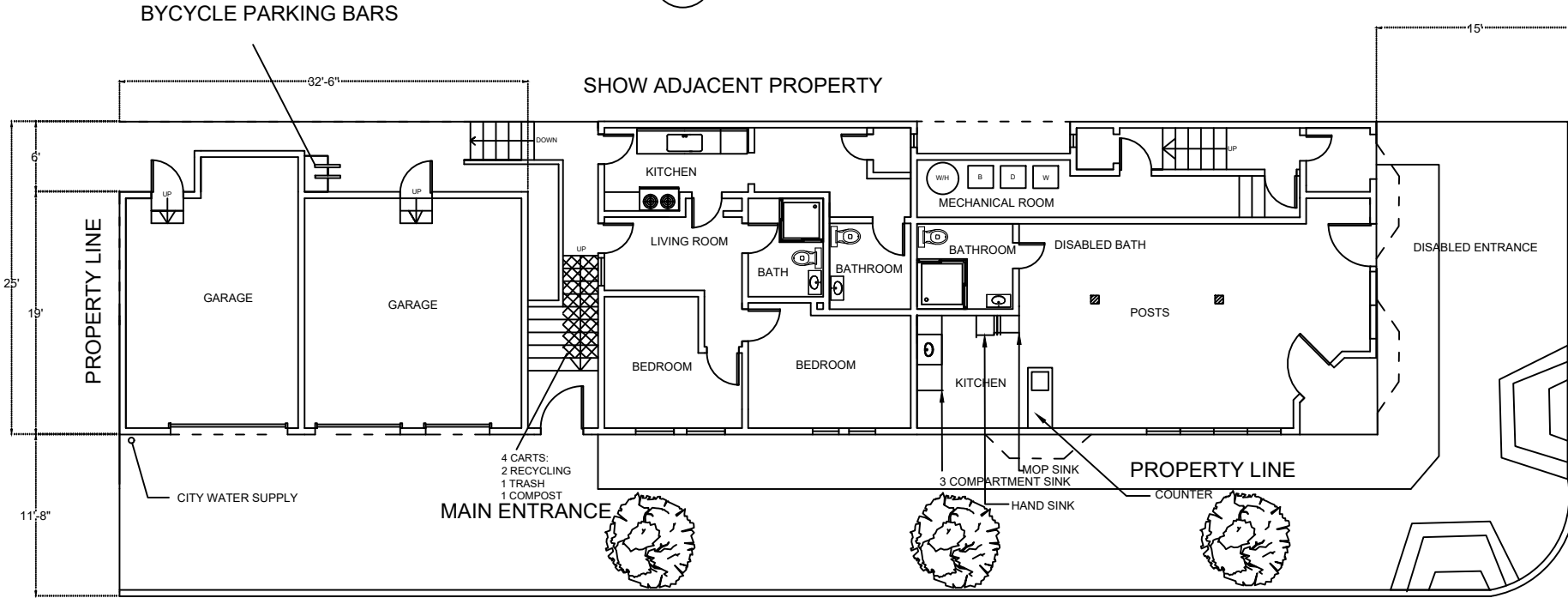
## S1.1



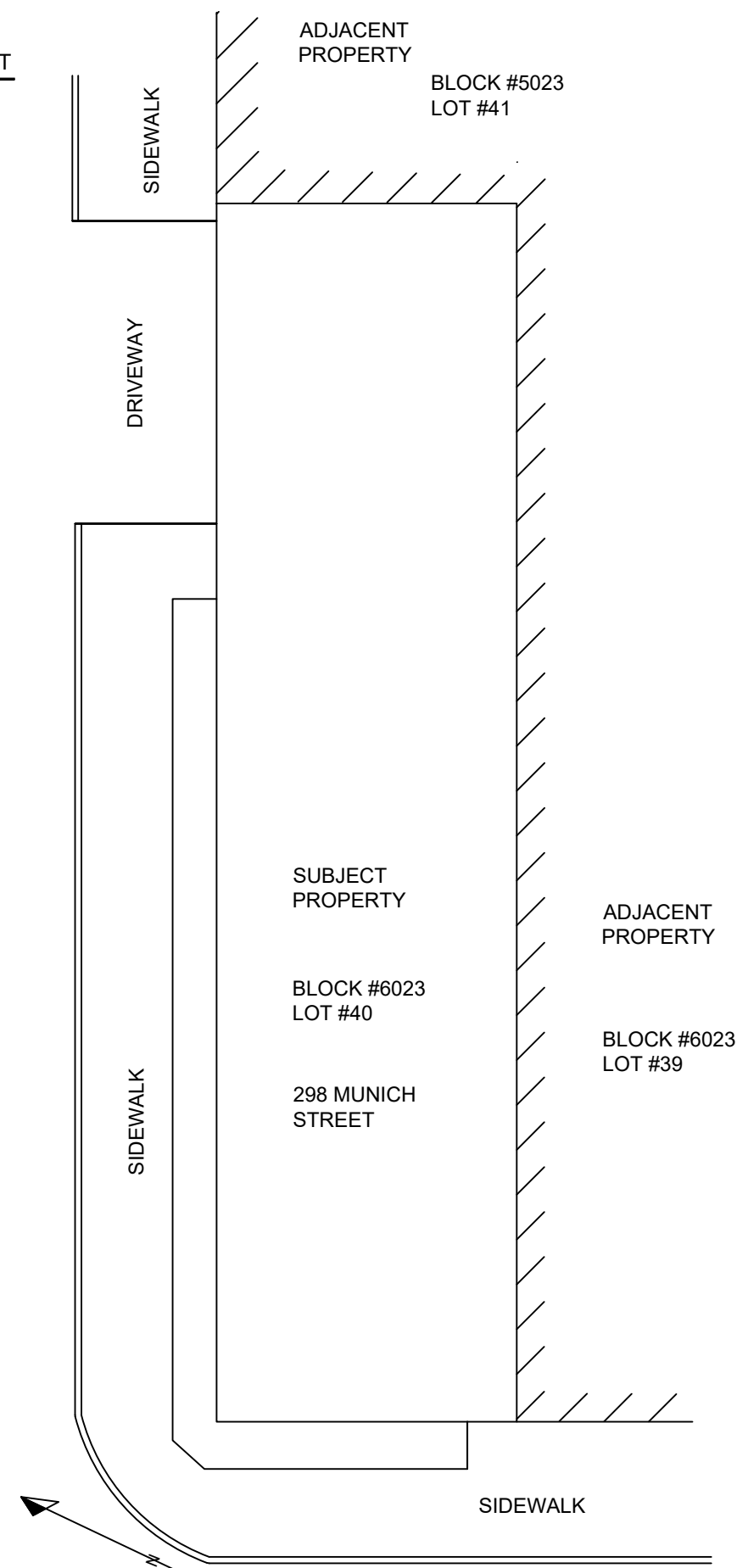
1 ELEVATION MUNICH STREET  
SCALE: 1/8"=1'-0"



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



1 EXISTING FIRST FLOOR PLAN  
SCALE: 1/8"=1'-0"



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

**BUILDING CODE EXPERTS**  
**ARCHITECTS AND MEP**  
**DESIGNERS**

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PROPERTY - 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

DRAWN  
CHECKED  
DATE  
06.13.2025  
SCALE  
AS NOTED

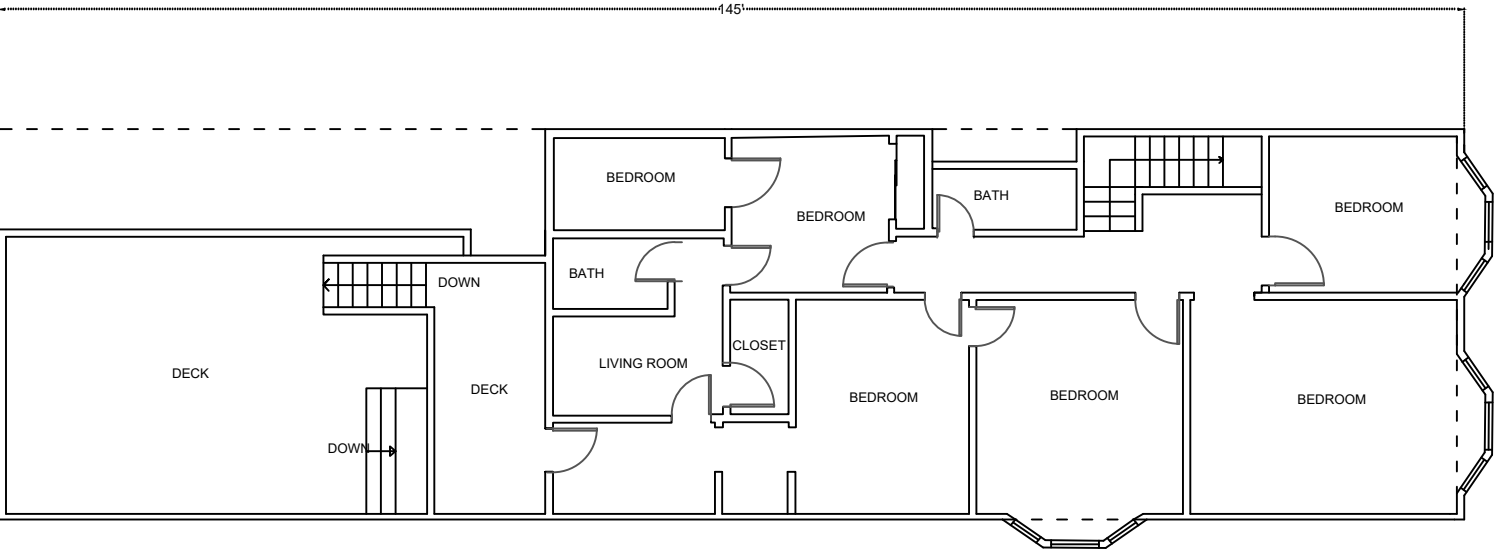
A-1

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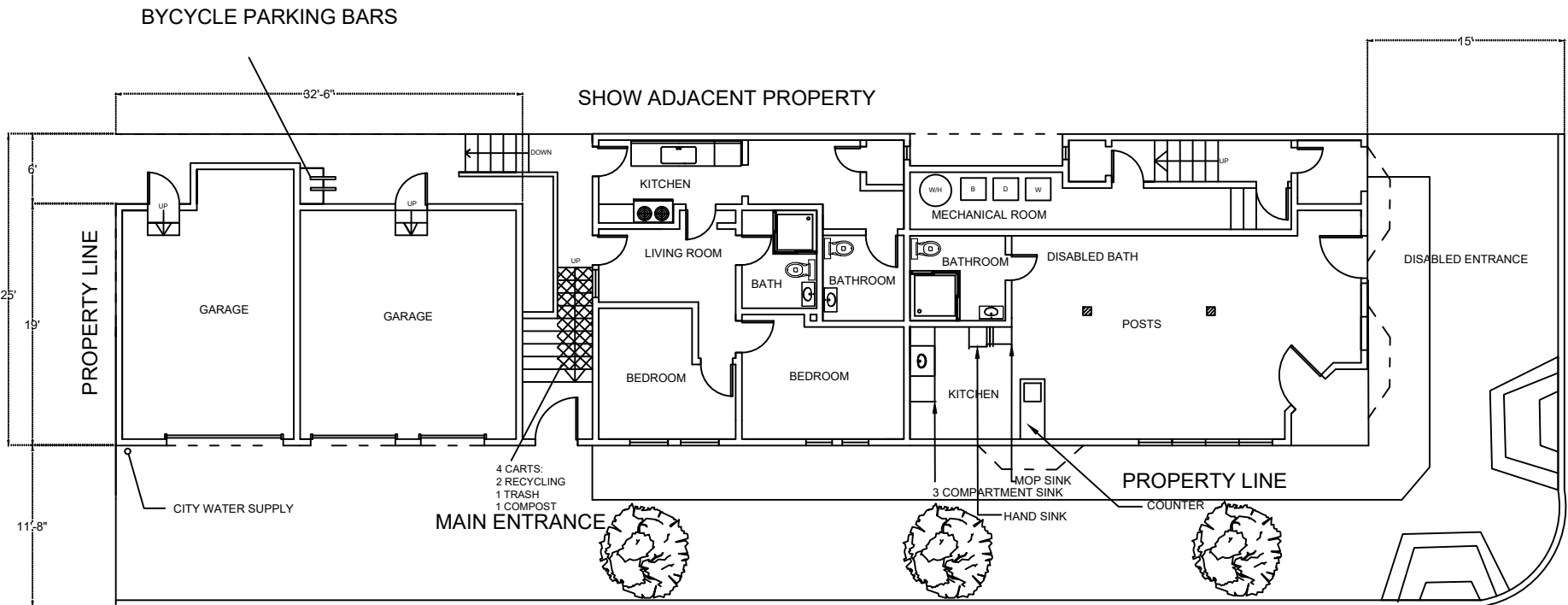
REVISIONS	
No	DATE

PROPERTY - 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

DRAWN
CHECKED
DATE 06.13.2025
SCALE AS NOTED



2 EXISTING 2ND FLOOR PLAN  
SCALE: 1/8"=1'-0"



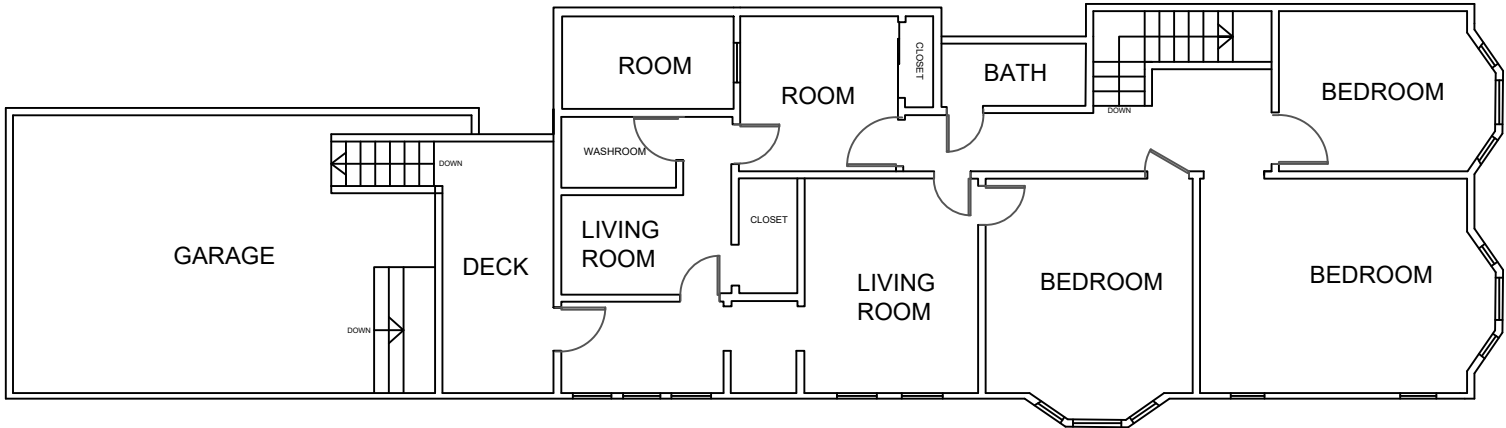
2 EXISTING FIRST FLOOR PLAN  
SCALE: 1/8"=1'-0"

CODES:  
2022 California Building Code  
2022 California Building Electrical Plumbing and Housing Codes

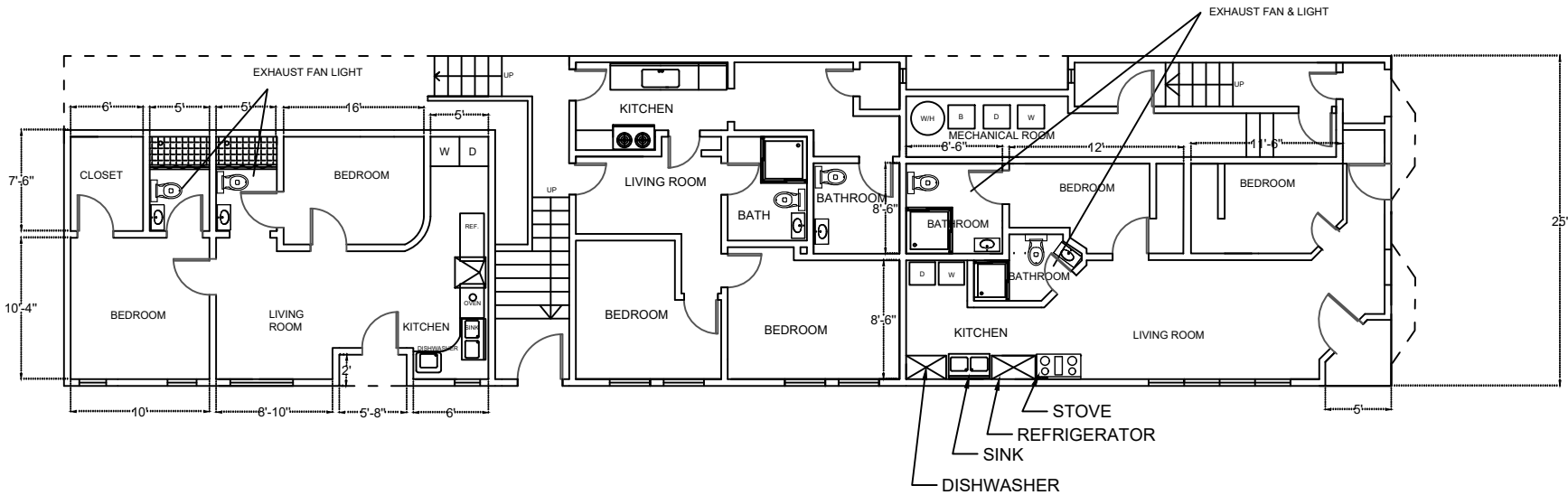
PROPERTY INFO:  
EXISTING OCCUPANCY: R/3 M  
PROPOSED:CHANGE OF OCCUPANCY TO R-2(4 UNITS)  
2 STORIES

SCOPE OF WORK  
CONVERT THE GARAGE TO LIVING UNIT  
CONVERT THE COMMERCIAL SPACE TO RESIDENTIAL  
EXISTING IS 3 UNITS (2 RESIDENTIAL, 1 COMMERCIAL), PROPOSED IS 4 UNITS(4 RESIDENTIAL)  
PROPOSED UNIT 3 NUMBER(COMMERCIAL CONVERSION): 298 MUNICH STREET(KEEP AS IS), OR 296 MUNICH STREET IF IT MUST BE CHANGED  
PROPOSED UNIT 4 NUMBER: 931 BRAZIL AVENUE  
NO EXCAVATION NEEDED  
UNITS WILL BE ADDED PER ORDINANCE NO 162-16  
PROJECT WILL CONFORM TO AB-094

DRAWING INDEX:  
A-1 SITE PLAN  
A-2 (E) 1ST AND 2ND FLOOR  
A-3 PROPOSED UNITS PLANS  
A-4 (E) ELEVATION  
A-5 PROPOSED ELEVATION  
A-6 (E) SECTION A-A  
A-7 PROPOSED SECTION A-A  
A-8 BLOCK AND LOT#  
A-9 HISTORICAL MAP  
A-10 AERIAL MAP



3 EXISTING 2ND FLOOR PLAN  
SCALE: 1/8"=1'-0"



3 EXISTING GROUND FLOOR PLAN WITH PROPOSED 2 UNITS  
SCALE: 1/8"=1'-0"

BUILDING CODE EXPERTS  
ARCHITECTS AND MEP  
DESIGNERS

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CHECKED

DATE

06.13.2025

SCALE

AS NOTED

A-3

**BUILDING CODE EXPERTS  
ARCHITECTS AND MEP  
DESIGNERS**

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No	DATE

PROPERTY- 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

LAWN

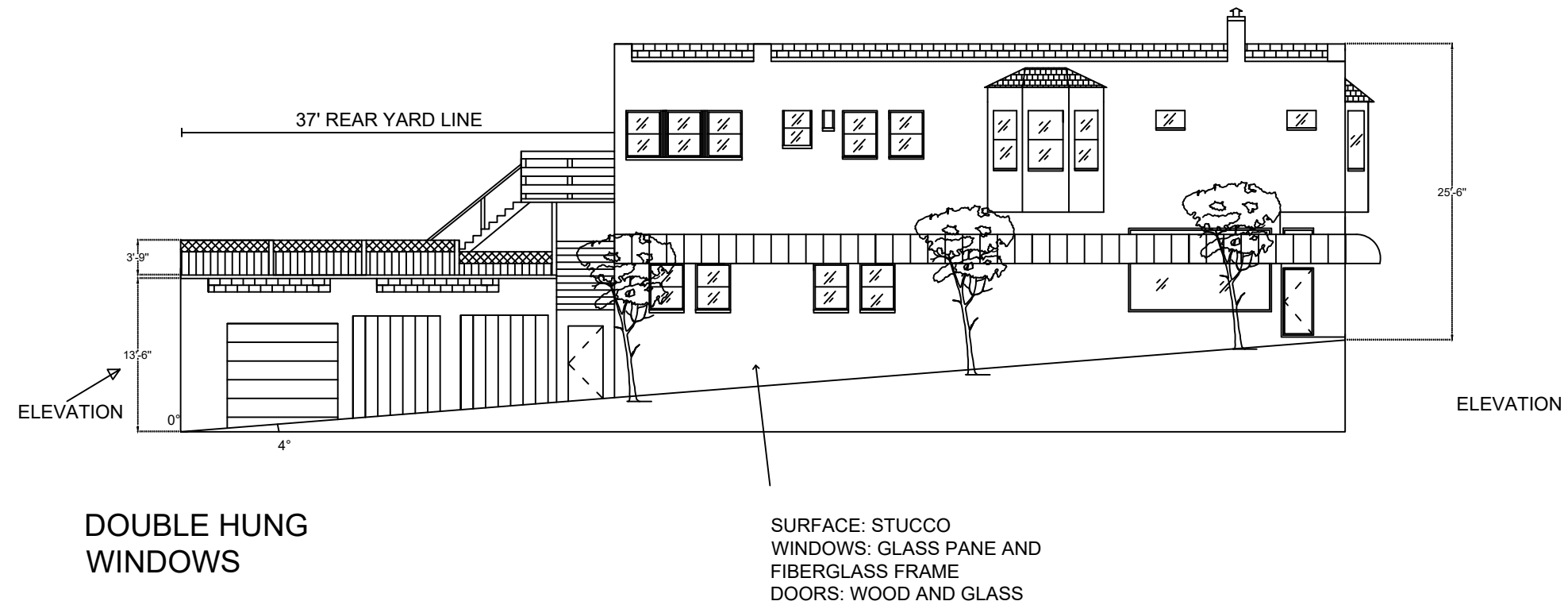
## CHECKED

DATE  
12/2025

## SCALE

**ST NUMBER**

**A-4**



4

EXISTING ELEVATION BRAZIL AVENUE

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

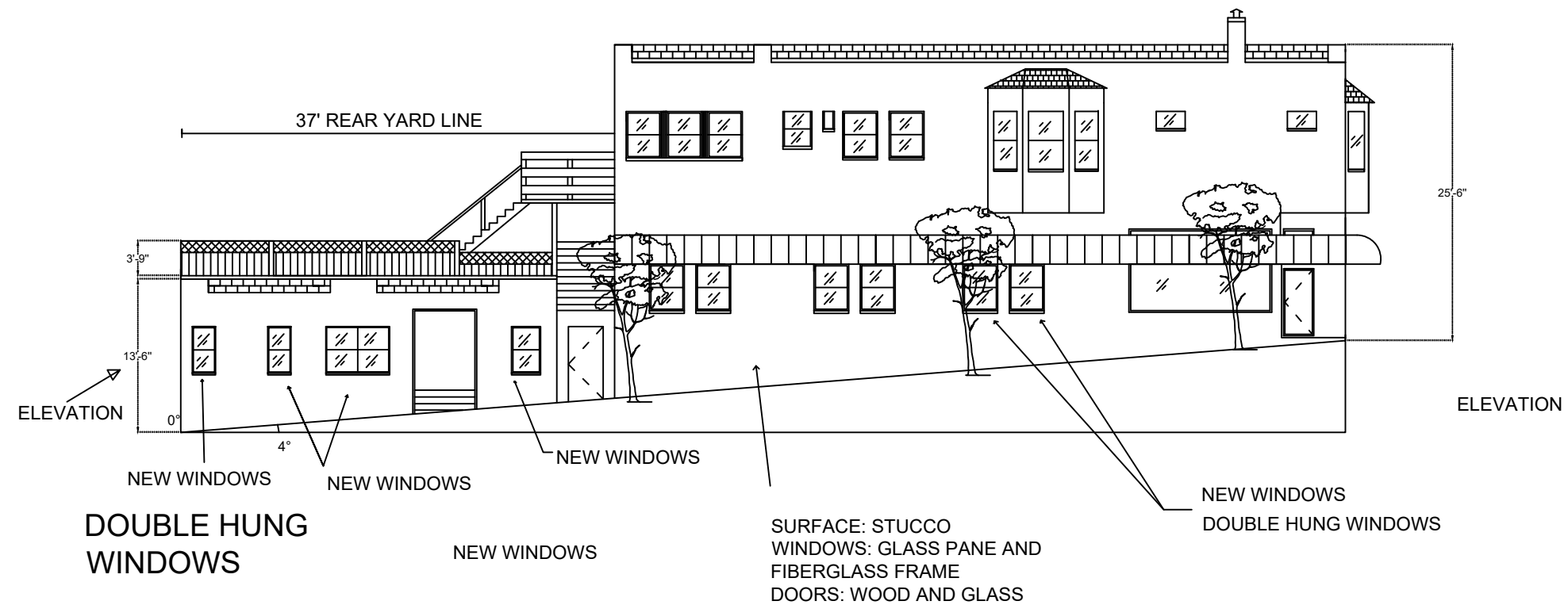
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SAN FRANCISCO, CA 94112

DRAWN
CHECKED
DATE 06.13.2025
SCALE AS NOTED

A-5



5 PROPOSED ELEVATION BRAZIL AVENUE  
SCALE: 1/8"=1'-0"

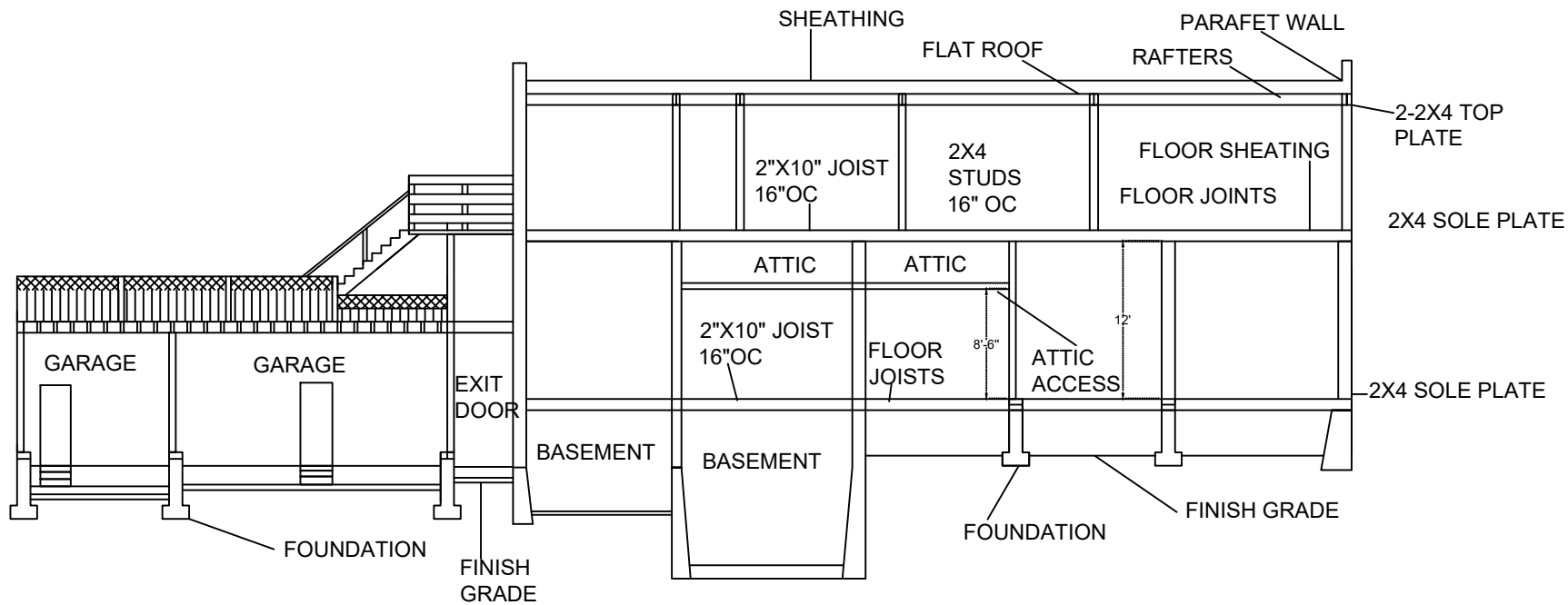
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DRAWN
CHECKED
DATE 06.13.2025
SCALE AS NOTED

A-6



6 EXISTING SECTION A-A  
SCALE: 1/8"=1'-0"

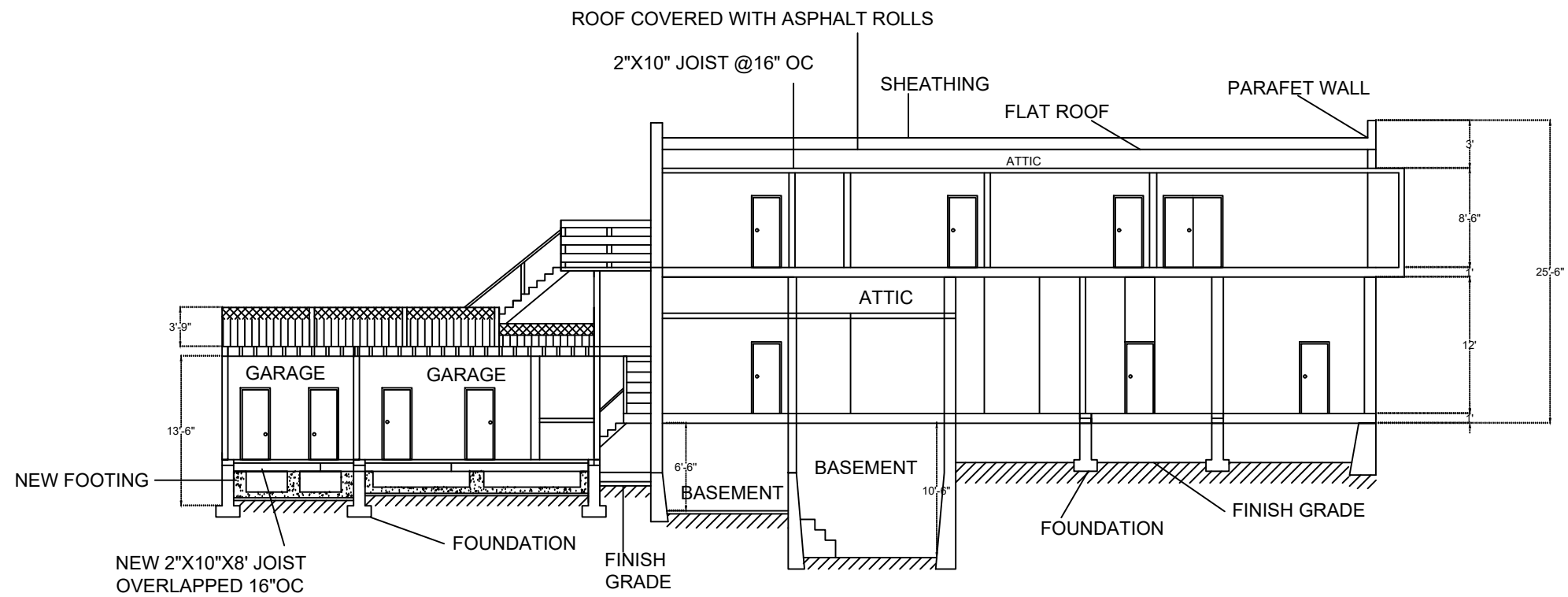
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CHECKED
DATE 06.12.2025
SCALE AS NOTED

A-7



6 PROPOSED SECTION A-A  
SCALE: 1/8"=1'-0"



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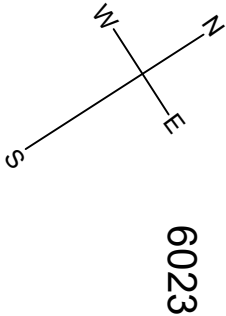
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DATE 06.13.2025
SCALE AS NOTED
SHEET NUMBER 1 OF 38



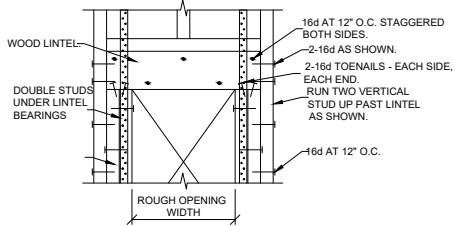
EXCELSIOR AVE.

25	100	25	75	25
	29	1		
25	28	75	2	25
25	27	30	3	75
25		4	100	25
25		26		
25		25	5	25
25		24	6	25
25		23	7	25
		8		25
	22 A	8 A		25
25	22	9		25
25		21	10	25
25		20 A	11	25
25		20	12	25
25		19	13	25
25		18	14	25
25		17	15	25
25		16 A	16	25
25		16 C	16 K	25
25		16 B	16 F	25
25	100	16 L	16 L	25
25	70	42	30	16 G
		41		25
25	70	33	50	75
			37	25
25	69	36	26	a 50
				100
25		31	25	40
				100.50
	70		39.50	100.50
				25

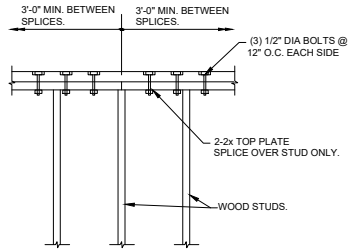
MOSCOW

MUNICH

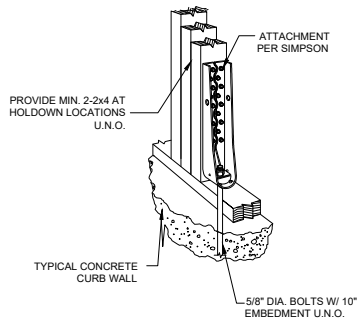
BRAZIL AVE



1 WOOD LINTEL DETAIL  
NOT TO SCALE

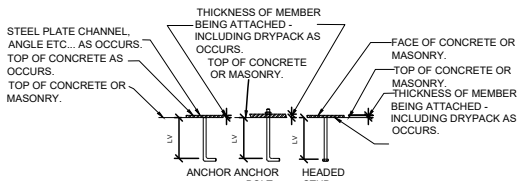


2 TYPICAL TOP PLATE SPLICE DETAIL  
NOT TO SCALE

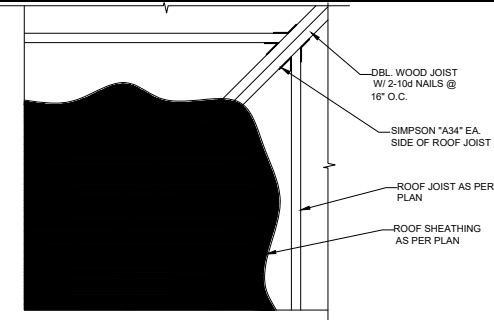


3 TYP. HOLDOWN DETAIL  
NOT TO SCALE

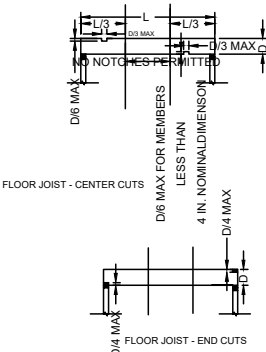
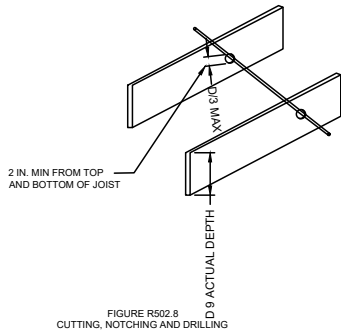
ANCHOR SIZE	HORIZONTAL CAST EMBEDMENT (LH)	VERTICAL CAST EMBEDMENT (LV)
3/8"	5"	7"
1/2"	5"	8"
5/8"	5"	8"
3/4"	5"	8"
7/8"	5"	8"
1"	5"	9"
1 1/4"	5"	12"
1 1/2"	5"	12"



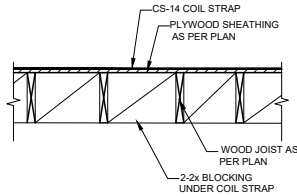
4 ANCHOR AND ANCHOR BOLT EMBEDMENTS  
NOT TO SCALE



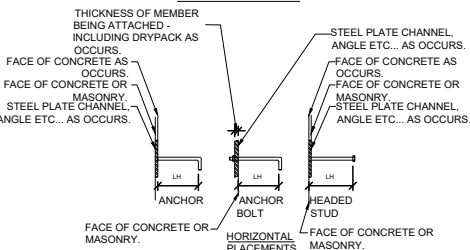
5 JOIST AT HIP/ VALLEY  
NOT TO SCALE



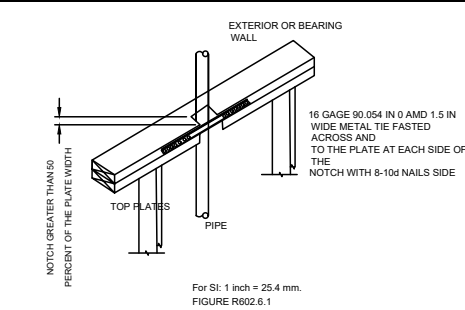
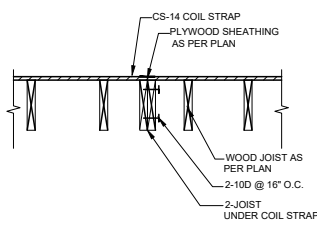
6 HOLES & NOTCHES IN JOIST FRAMING  
NOT TO SCALE



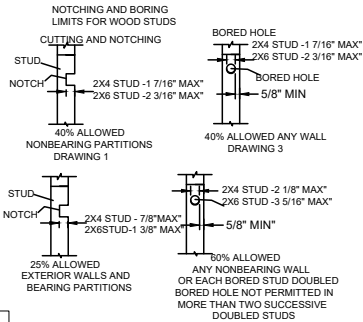
7 COIL STRAP PERPENDICULAR TO WOOD JOIST  
NOT TO SCALE



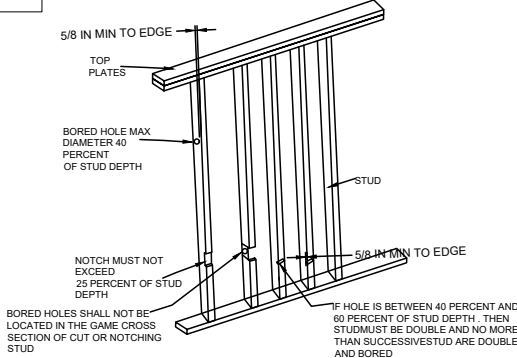
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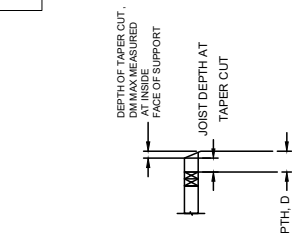
9 HOLES & NOTCHES IN TOP PLATE  
NOT TO SCALE



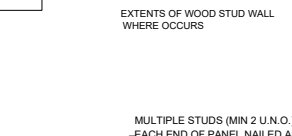
10 HOLES & NOTCHES IN SILL PLATE  
NOT TO SCALE



11 HOLES & NOTCHES IN WALL STUD  
NOT TO SCALE



12 HOLES & NOTCHES IN JOIST FRAMING  
NOT TO SCALE



15 ONE-STORY SHEAR WALL ELEVATION  
NOT TO SCALE

BUILDING CODE EXPERTS  
ARCHITECTS AND MEP  
DESIGNERS

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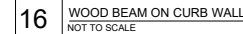
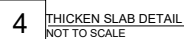
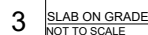
REVISIONS	
No	DATE

HOUSE- 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

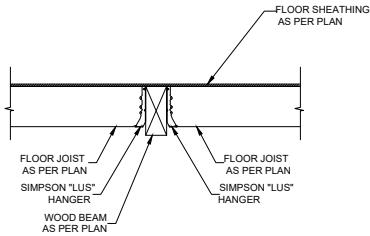
TYP. SECTION DETAIL

DRAWN
CHECKED
DATE 06.13.2025
SCALE AS NOTED
SHEET NUMBER 1 OF 38

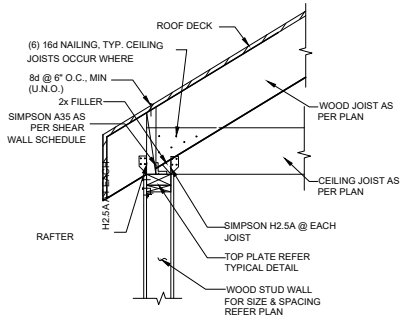
S3.1



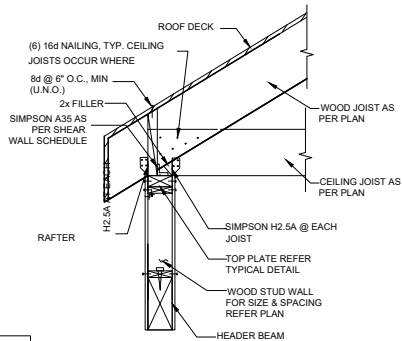
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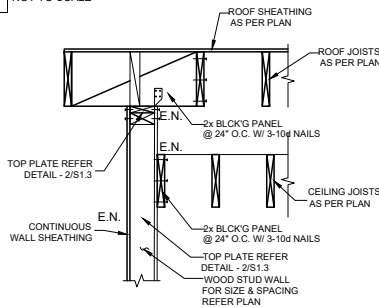
1 JOIST TO WOOD BEAM CONNECTION  
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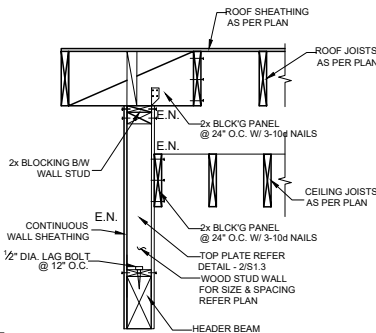
2 WOOD JOIST ON WOOD WALL  
NOT TO SCALE



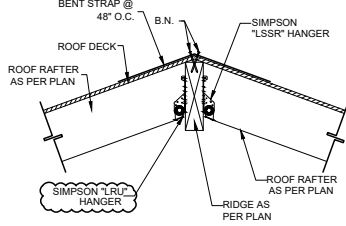
3 WOOD JOIST ON WOOD WALL  
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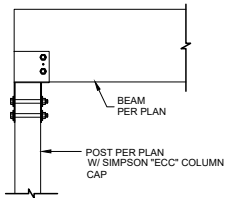
4 WOOD JOIST PARALLEL TO WOOD WALL  
NOT TO SCALE



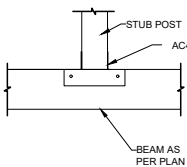
5 WOOD JOIST PARALLEL TO WOOD WALL  
NOT TO SCALE



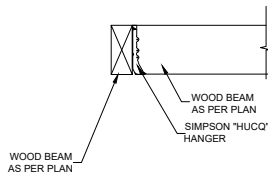
6 WOOD JOIST ON (E) RIDGE BEAM  
NOT TO SCALE



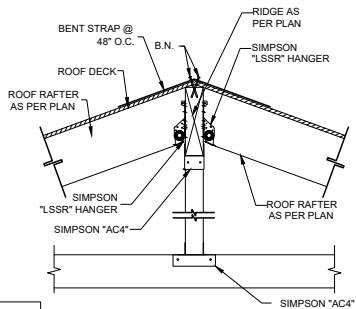
7 TYPICAL WOOD BEAM AT WOOD COLUMN  
NOT TO SCALE



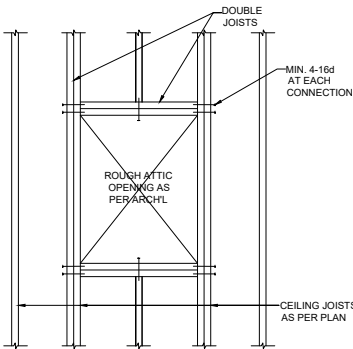
8 WOOD POST AT WOOD BEAM  
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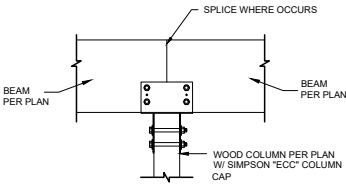
9 WOOD BEAM TO WOOD BEAM CONNECTION  
NOT TO SCALE



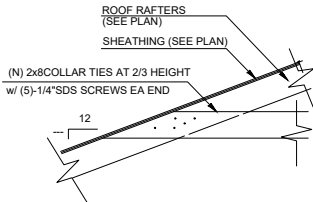
10 WOOD JOIST ON (E) RIDGE BEAM  
NOT TO SCALE



11 TYP. ATTIC OPENING IN CEILING  
NOT TO SCALE



12 TYPICAL WOOD BEAM AT WOOD COLUMN  
NOT TO SCALE



13 COLLAR TIE CONNECTION DETAIL  
NOT TO SCALE

**BUILDING CODE EXPERTS  
ARCHITECTS AND MEP  
DESIGNERS**

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**REVISIONS**

No	DATE

HOUSE- 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

**FRAMING SECTION  
DETAILS**

DRAWN

CHECKED

DATE

06.13.2025

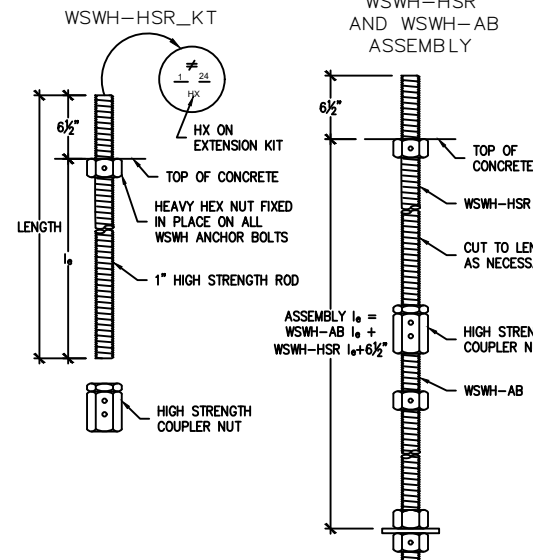
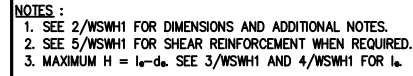
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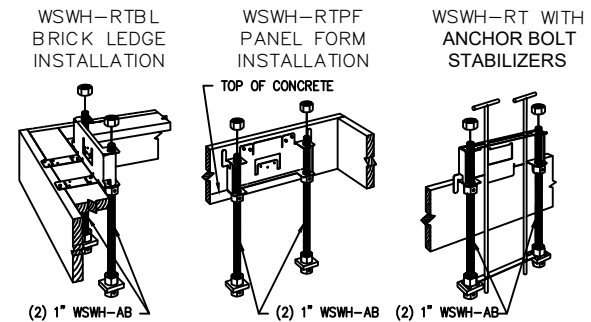
SHEET NUMBER

1 OF 38

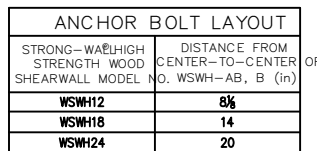
S3.2



WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	le
WSWH12, WSWH18 AND WSWH24	WSWH-HSR1x24KT	1"	24"	17½"
	WSWH-HSR1x36KT	1"	36"	29½"

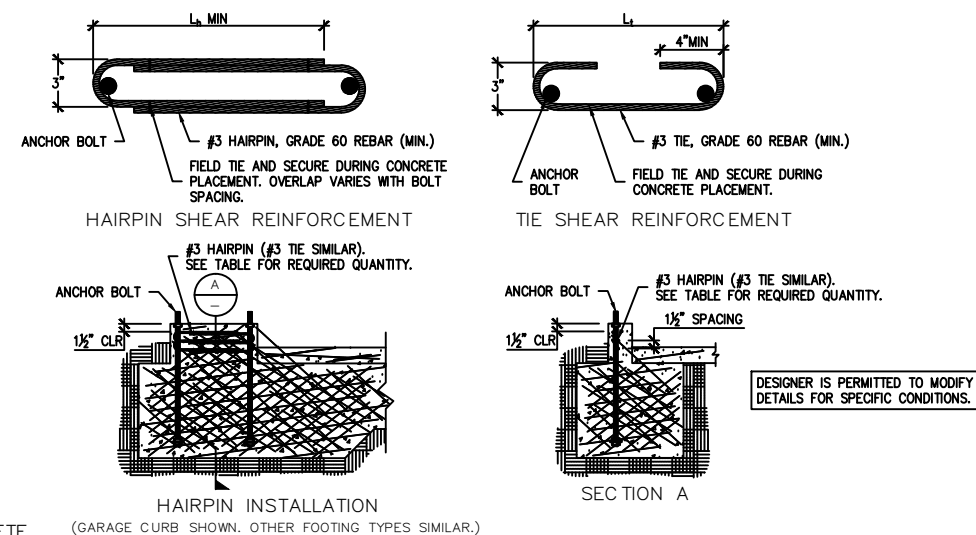


4	WSWH ANCHOR BOLT TEMPLATES
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- NOTES:**
- ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D, ACI 318-14 CHAPTER 17 AND ACI 318-19 CHAPTER 17 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
  - ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSMH-AB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A193 GRADE B7).
  - SEISMIC INDICATES SEISMIC DESIGN CATEGORY C-F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.3, ACI 318-14 SECTION 17.2.3.4.3 AND ACI 318-19 SECTION 17.10.5.3.
  - WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
  - FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE DESIGNER MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
  - REFER TO 1/WSWH1 FOR  $\phi_a$ .

TWSH ANCHORAGE SOLUTIONS FOR 4500 PSI CO					
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	TWSH-AB1 ANCHOR BOLT		
			ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)
SEISMIC	CRACKED	STANDARD	16,000	27	9
			17,100	23	10
		HIGH STRENGTH	34,700	44	15
			36,800	46	16
	UNCRAKED	STANDARD	15,700	23	8
			17,100	25	9
		HIGH STRENGTH	33,900	38	13
			36,800	40	14
WIND	CRACKED	STANDARD	6,800	14	6
			11,600	20	7
			17,100	26	9
			21,400	30	10
		HIGH STRENGTH	28,400	36	12
			32,400	39	13
			36,800	43	15
			6,800	12	6
	UNCRAKED	STANDARD	12,400	18	6
			17,100	23	8
			22,800	27	9
			25,700	30	11
		HIGH STRENGTH	30,700	33	11
			36,800	37	13



STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL SHEAR ANCHORAGE							
MODEL	SEISMIC 3			WIND 4			
	Lt OR Lh (in.)	SHEAR REINFORCEMENT	MIN. CURB / STEM WALL WIDTH (in.)	SHEAR REINFORCEMENT	MIN. CURB / STEM WALL WIDTH (in.)	ASD ALLOWABLE SHEAR LOAD V (lb.)	
						UNCRACKED	CRACKED
WSWH12	10%	(1) #3 TIE	6	SEE NOTE 7	6	1,080	770
WSWH18	15	(2) #3 HAIRPINS <sup>5,6</sup>	6	(1) #3 HAIRPIN	6	HAIRPIN REIN. ACHIEVES MAX. ALLOW SHEAR LOAD OF THE WSWH	
WSWH24	19	(2) #3 HAIRPINS <sup>5</sup>	6	(2) #3 HAIRPINS <sup>5</sup>	6		

- NOTES :**
1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
  2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.
  3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F, DETACHED 1 AND 2 FAMILY DWELLINGS IN SDG C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC SHEAR REINFORCEMENT DESIGNS CONFORM TO ACI 318-19, SECTION 17.10.6.3, ACI 318-14, SECTION 17.2.3.5.3
  4. WIND INDICATES SEISMIC DESIGN CATEGORY A AND B.
  5. ADDITIONAL TIES MAY BE REQUIRED AT GARAGE CURB OR STEMWALL INSTALLATIONS BELOW ANCHOR REINFORCEMENT PER DESIGNER.
  6. USE (1) #3 HARPIN FOR WSMH18 WHEN STANDARD STRENGTH ANCHOR IS USED.
  7. USE (1) #3 TIE FOR WSMH12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
  8. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSMH SHEAR ANCHORAGE SOLUTIONS.
  9. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-19 SECTION 17.9.2, ACI 318-14 SECTION 17.7.2 AND ACI 318-11 SECTION D.8.2.
  10. THE DESIGNER MAY SPECIFY ALTERNATE SHEAR ANCHORAGE.

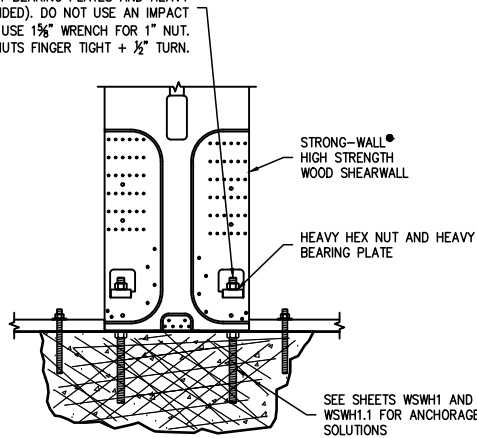
No	DATE

# STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MODELS

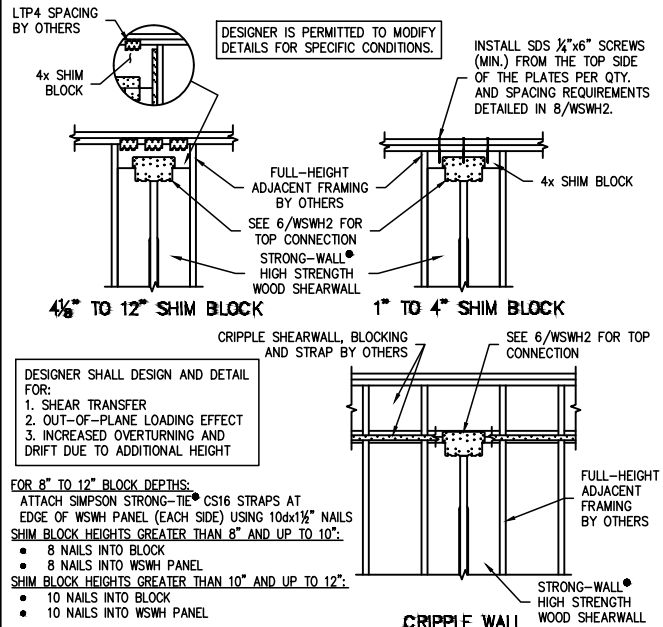
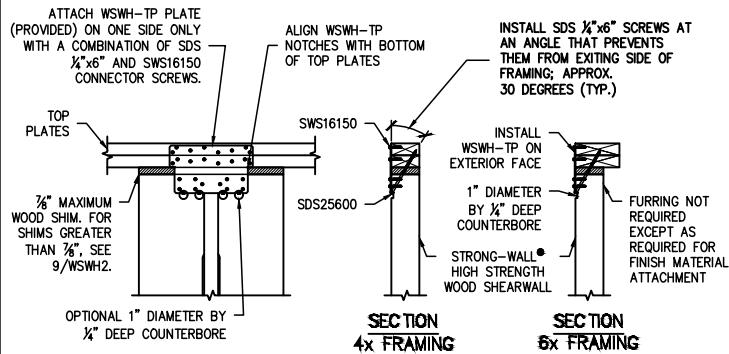
MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS QUANTITY	ANCHOR DIA. (in.)	TOTAL WALL WEIGHT (lb.)
WSWH12x7	12	84	2	1	105
WSWH18x7	18	84	2	1	155
WSWH12x8	12	96	2	1	120
WSWH18x8	18	96	2	1	175
WSWH24x8	24	96	2	1	225
WSWH12x9	12	108	2	1	130
WSWH18x9	18	108	2	1	195
WSWH24x9	24	108	2	1	250
WSWH12x10	12	120	2	1	145
WSWH18x10	18	120	2	1	210
WSWH24x10	24	120	2	1	275
WSWH12x12	12	144	2	1	165
WSWH18x12	18	144	2	1	245
WSWH24x12	24	144	2	1	325
WSWH18x14	18	168	2	1	285
WSWH24x14	24	168	2	1	370
WSWH24x16	24	192	2	1	420
WSWH18x20	18	240	2	1	390
WSWH24x20	24	240	2	1	520

- NOTES :
- FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT. MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 74 1/2".
  - ALL PANELS COME WITH PRE-ATTACHED HOLD-DOWNS, TWO HEAVY HEX NUTS, TWO HEAVY BEARING PLATES, ONE WSWH-TP TOP CONNECTION PLATE WITH REQUIRED FASTENERS AND INSTALLATION INSTRUCTIONS.
  - ALL PANELS ARE 3/4" THICK.

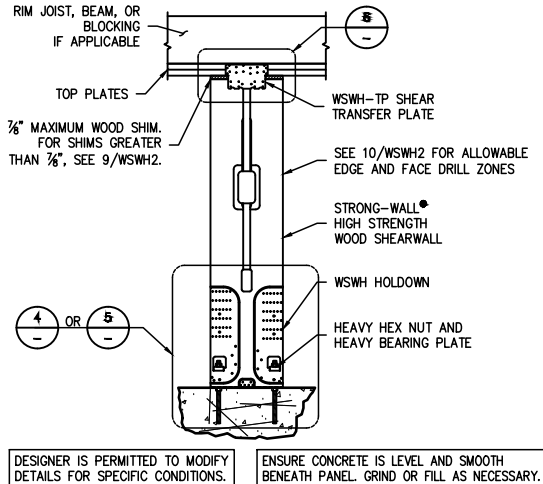
PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1 1/8" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + 1/2" TURN.



MODEL NO.	FASTENER QUANTITY	
	SWH16150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8

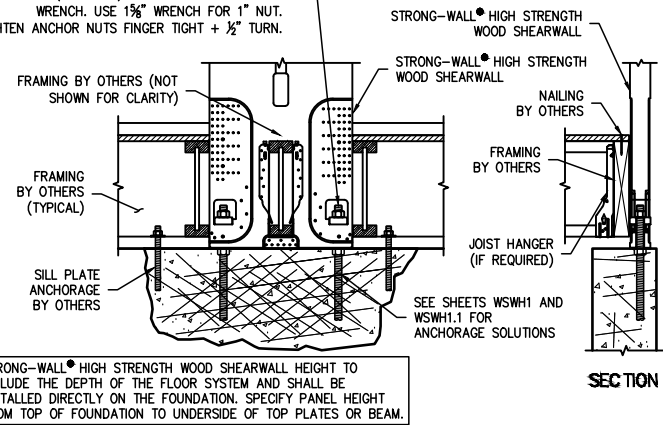


## STRONG-WALL® WSWH MODELS



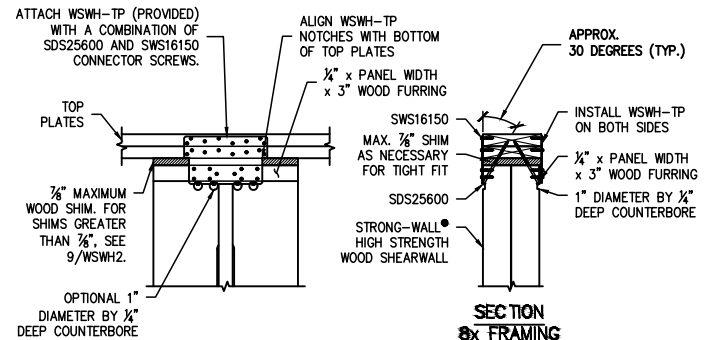
## STANDARD INSTALLATION BASE CONNECTION

PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1 1/8" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + 1/2" TURN.

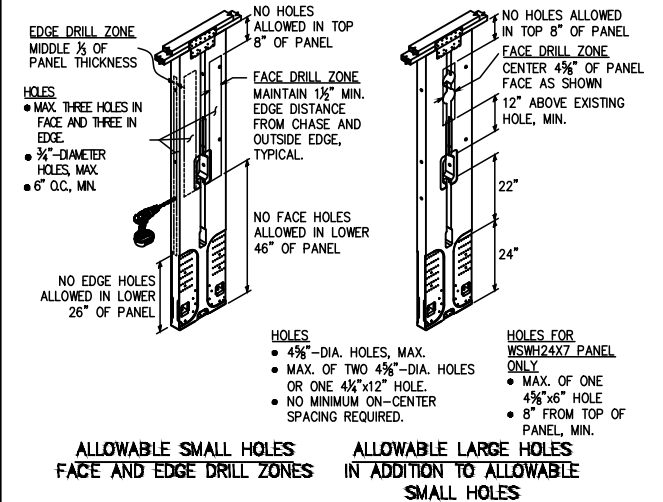


## TOP CONNECTION

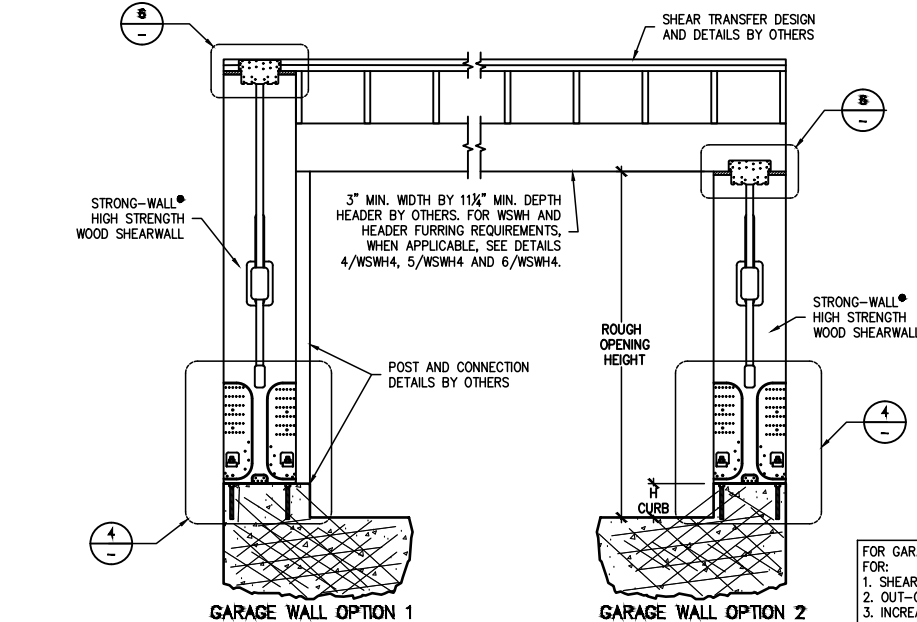
MODEL NO.	FASTENER QUANTITY	
	SWH16150	SDS25600
WSWH-TP12	28	4
WSWH-TP18	52	8
WSWH-TP24	92	16



## TOP OF WALL HEIGHT ADJUSTMENTS



## SINGLE STORY WSWH ON CONCRETE



## WOOD FLOOR SYSTEM BASE CONNECTION

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

WHEN WSWH-PS STRAPS OMITTED, ALLOWABLE SHEAR VALUES FOR STANDARD PANEL APPLY.

### GARAGE HEADER ROUGH OPENING HEIGHT

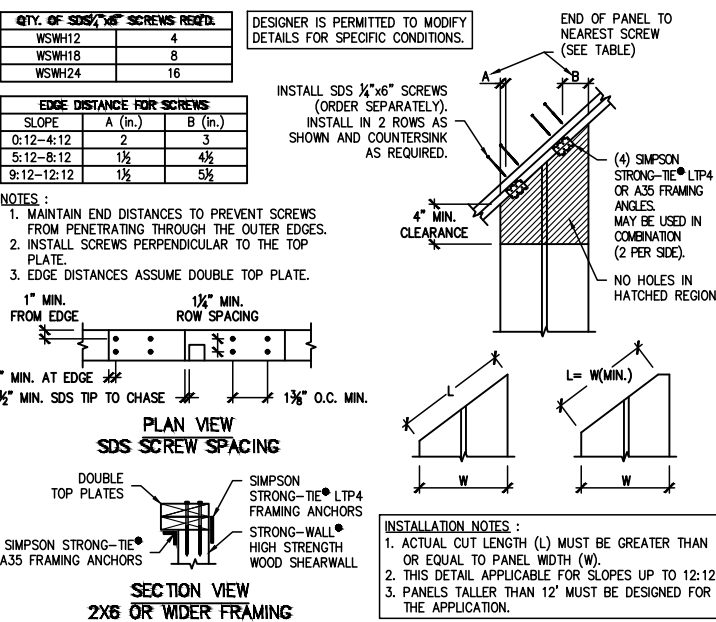
MODEL NO.	TRIMMED PANEL HEIGHT	H CURB	ROUGH OPENING HEIGHT
WSWH12x7	78"	5 1/2"	6'-11 1/2"
WSWH18x7		6"	7'-0"
WSWH24x7			
WSWH12x8	85 1/2"	0"	7'-1 1/2"
WSWH18x8		5 1/2"	8'-2 3/4"
WSWH24x8	93 1/4"	6"	8'-3 3/4"

- NOTES :
- IF REQUIRED ROUGH OPENING HEIGHT EXCEEDS TABLE VALUE, SPECIFY NEXT TALLER PANEL AND TRIM AS NECESSARY. THE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MAY BE TRIMMED TO A MINIMUM HEIGHT OF 74 1/2".
  - FURRING DOWN GARAGE HEADER MAY BE REQUIRED FOR CORRECT ROUGH OPENING HEIGHT.

FOR GARAGE WALL OPTION 2, DESIGNER SHALL DESIGN AND DETAIL FOR:

- SHEAR TRANSFER
- OUT-OF-PLANE LOADING EFFECT
- INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

## BACK-TO-BACK TOP CONNECTION



## TRIM ZONE AND ALLOWABLE HOLES

- STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY INC." IS AN ISO 9001-2008 REGISTERED COMPANY.
- USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
- THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
- ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STRONG-WALL SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
- SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
- ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
- SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

## ALTERNATE WSWH GARAGE FRONT OPTIONS

### GARAGE WALL OPTION 2

FOR GARAGE WALL OPTION 2, DESIGNER SHALL DESIGN AND DETAIL FOR:

- SHEAR TRANSFER
- OUT-OF-PLANE LOADING EFFECT
- INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

## RAKE WALL

## NOTES

## BUILDING CODE EXPERTS ARCHITECTS AND MEP DESIGNERS

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## REVISIONS

No	DATE

HOUSE- 298 MUNICH STREET  
SAN FRANCISCO, CA 94112

STRONG-WALL WSWH  
FRAMING DETAILS  
ENGINEERED DESIGNS

DRAWN
CHECKED
DATE 06.13.2025
SCALE AS NOTED
SHEET NUMBER 1 OF 38

S3.4