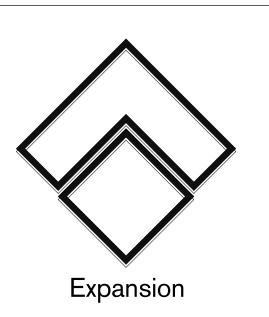


CRRC PROD. ID	MANUFACTURER	BRAND AND MODEL	PRODUCT TYPE	COLOR	SOLAR REF
V		₹ Ţ	Ŧ	Ŧ	INITIAL 🜲
0662-0042b	Johns Manville	CR Granule APPeX 4.5 M CR G CR Granule APPeX 4.5 M FR CR G CR Granule APPeX 4.5 M FR CR G CR Granule APPeX 4.5 M Sanded CR G CR Granule APPeX 4.5 M FR Sanded CR G CR Granule BICOR M FR CR G CR Granule Dibiten 4.5 FR CR G CR Granule Dibiten Poly 4.5 CR G CR Granule TRICOR M FR CR G CR Granule DynaFlex CR G CR Granule DynaGlas FR CR G CR Granule DynaGlas FR CR G CR Granule DynaGlas FR T1 CR G CR Granule DynaKap T1 CR G CR Granule DynaKap FR T1 CR G CR Granule DynaKap FR T1 HW CR G CR Granule DynaLastic 180 FR CR G CR Granule DynaMax FR CR G CR Granule DynaMax FR CR G CR Granule DynaMax FR HW CR G CR Granule DynaMax FR HW CR G CR Granule DynaWeld Cap 180 FR CR G CR Granule DynaWeld Cap 250 FR CR G CR Granule DynaWeld Cap FR XT CR G CR Granule DynaWeld Cap FR CR G CR Granule GlasKap CR G	Asphaltic M embrane	Bright White	0.72

FAF		CULAT	IONS
	Sq. Ft.	Exempt	Total
E Commercial N Duplex Unit 1 Unit 2 N Unit 1 Cov Parking N Unit 2 Cov Parking	1,152 908 908 390 390	400 400	1,152 1,816 908 908 0 0
Building code: 1,931 School fees: 3,102	Build area (see Site Pln): 2,047 Total FAR: 2,968 Max FAR - 1.5:1 3,070.5		2,968

N SF (see Area Plans A2.1)

	Sq. Ft.	Exempt	Total
Unit 1			908
Flr 1	36		36
Flr 2	433		433
Flr 3	439		439
Unit 2			908
Flr 1	36		36
Flr 2	433		433
Flr 3	439		439
Cov Parking			0
Unit 1	390	400	0
Unit 2	390	400	0



Георгий Шпак | Проектировщик 415.858.4218 | 1egorshpak@gmail.com

Owner:

Mike Miller

Project:

New 3-story Duplex 6032 S Vermont Ave Los Angeles, CA 90044

Revisions

No.	Description	Date

Site Plan, Roof Plan

Drawn by

Egor Shpak

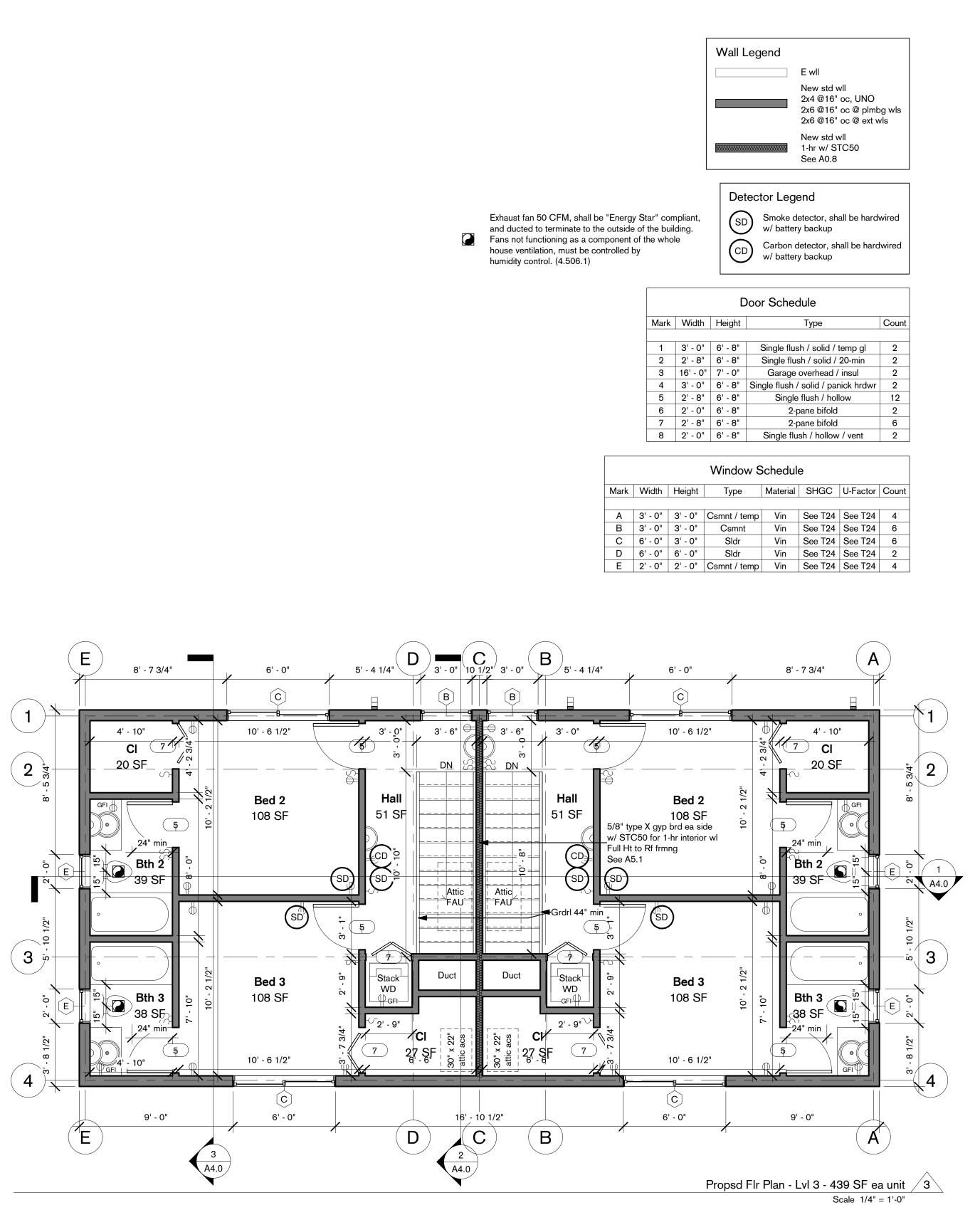
A1

Date

Scale

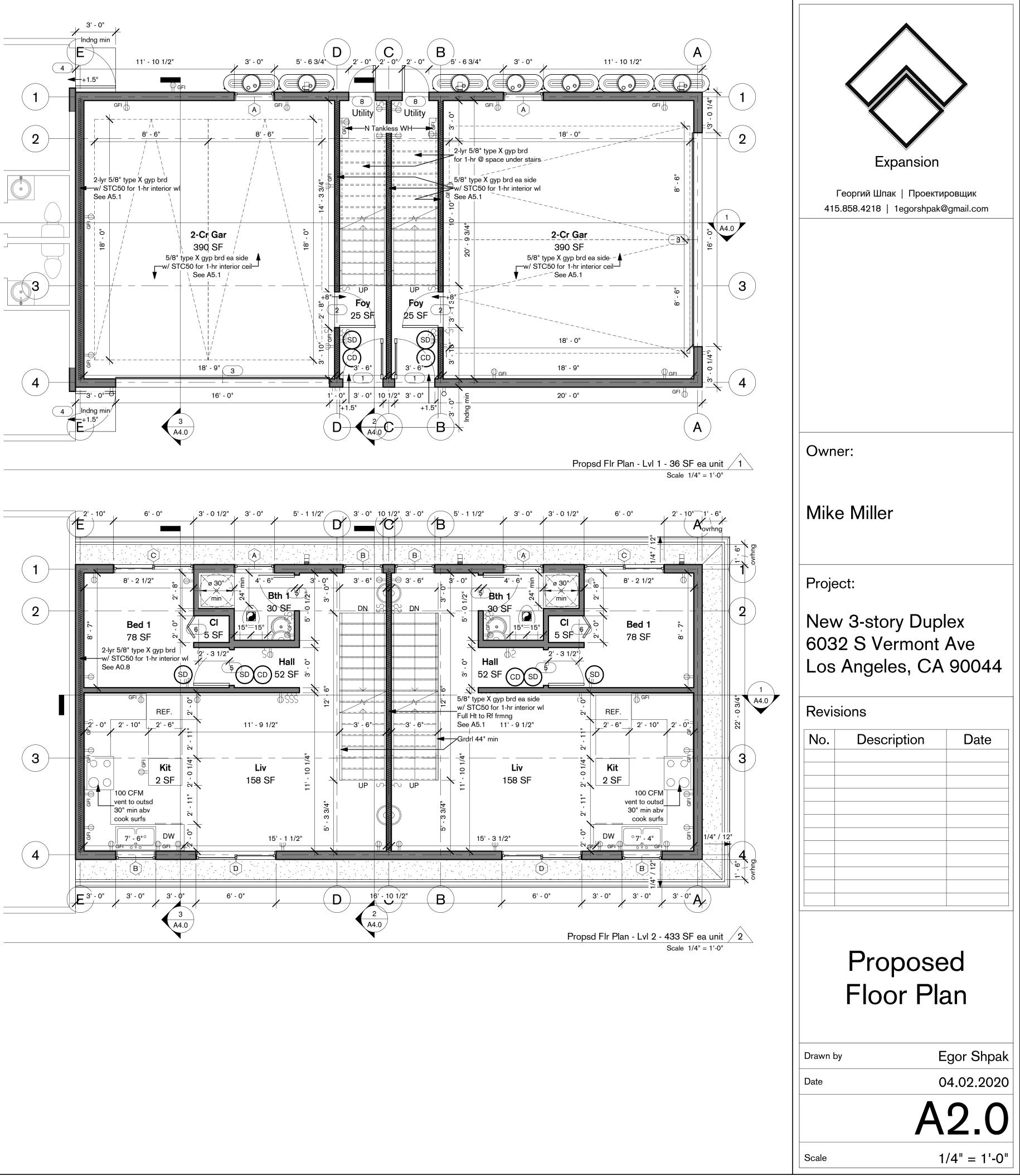
04.02.2020

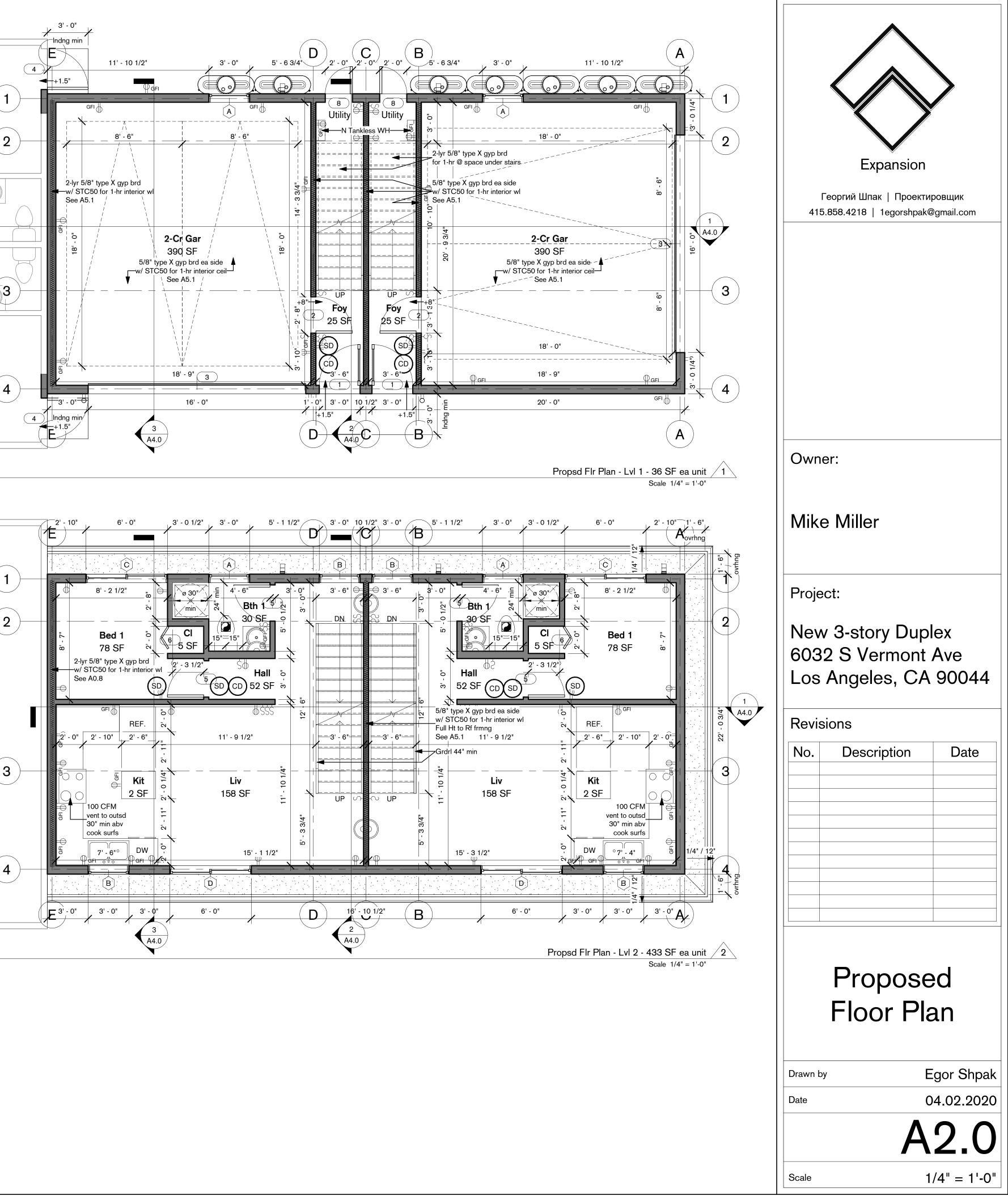
1/8" = 1'-0"

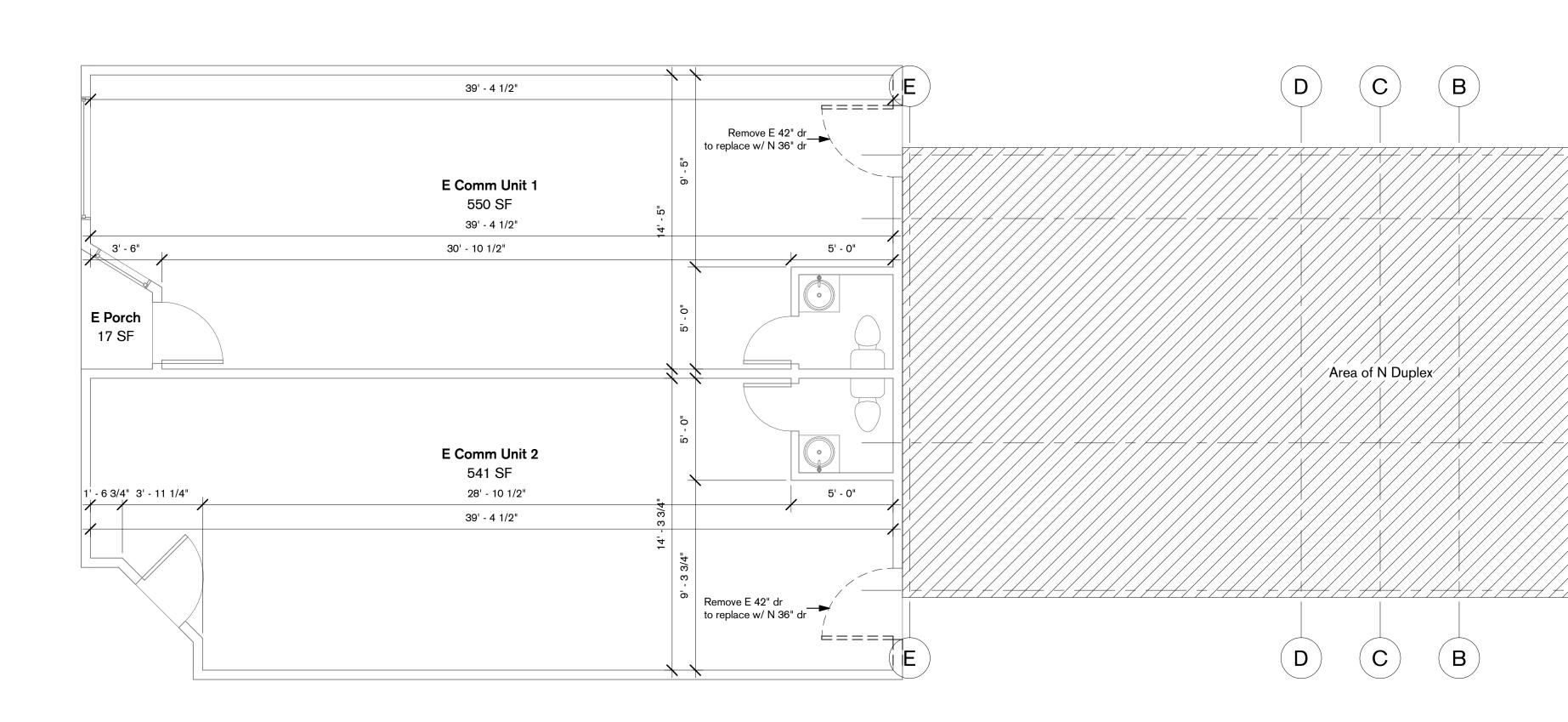


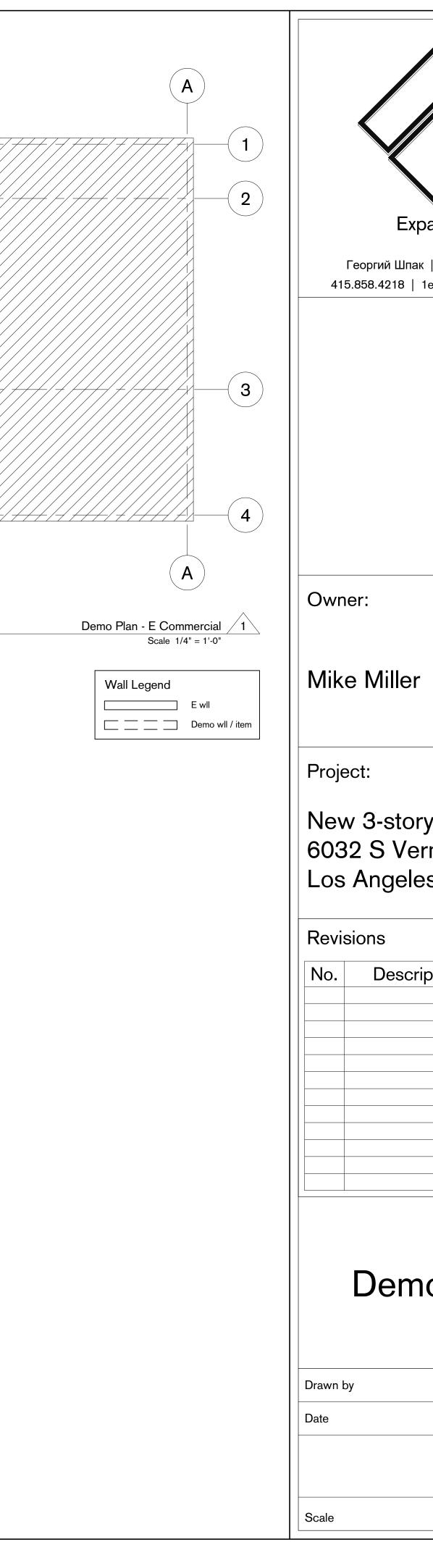
or Schedule			
Туре	Count		
Single flush / solid / temp gl	2		
Single flush / solid / 20-min	2		
Garage overhead / insul	2		
ngle flush / solid / panick hrdwr	2		
Single flush / hollow	12		
2-pane bifold	2		
2-pane bifold	6		
Single flush / hollow / vent	2		

Schedule					
Material SHGC U-Factor Count					
Vin	See T24	See T24	4		
Vin	See T24	See T24	6		
Vin	See T24	See T24	6		
Vin	See T24	See T24	2		
	Material Vin Vin Vin	Material SHGC Vin See T24 Vin See T24 Vin See T24	MaterialSHGCU-FactorVinSee T24See T24VinSee T24See T24VinSee T24See T24		



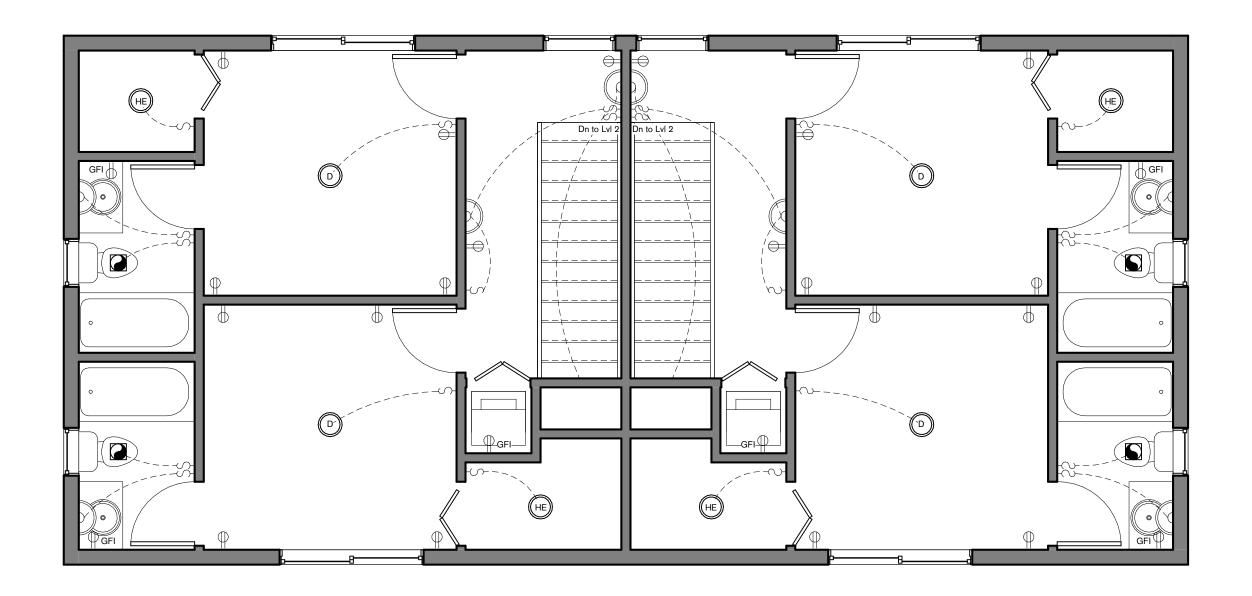








Electrical Legend All luminaries shall be high efficacy			
	Recessed downlight, dir shall be sealed type		
HE	Recessed downlight, shall be sealed type		
Ph Cell	Wall mounted light fixtur w/ photocontrol / motion		
\oplus	Pendant light fixture		
\bigcirc	Wall mounted light fixture sconce light		
	Garage opener w/ light		
∎ =⊖GFI	Duplex outlet w/ ground fault interrupt		
==GFI WP	Duplex outlet w/ ground Water-proof		
\Rightarrow	Duplex outlet, arc-fault ir		
	Exhaust fan 50 CFM, sh and ducted to terminate Fans not functioning as a house ventilation, must b humidity control. (4.506.		
Ş	Electric switch		



immer switch,

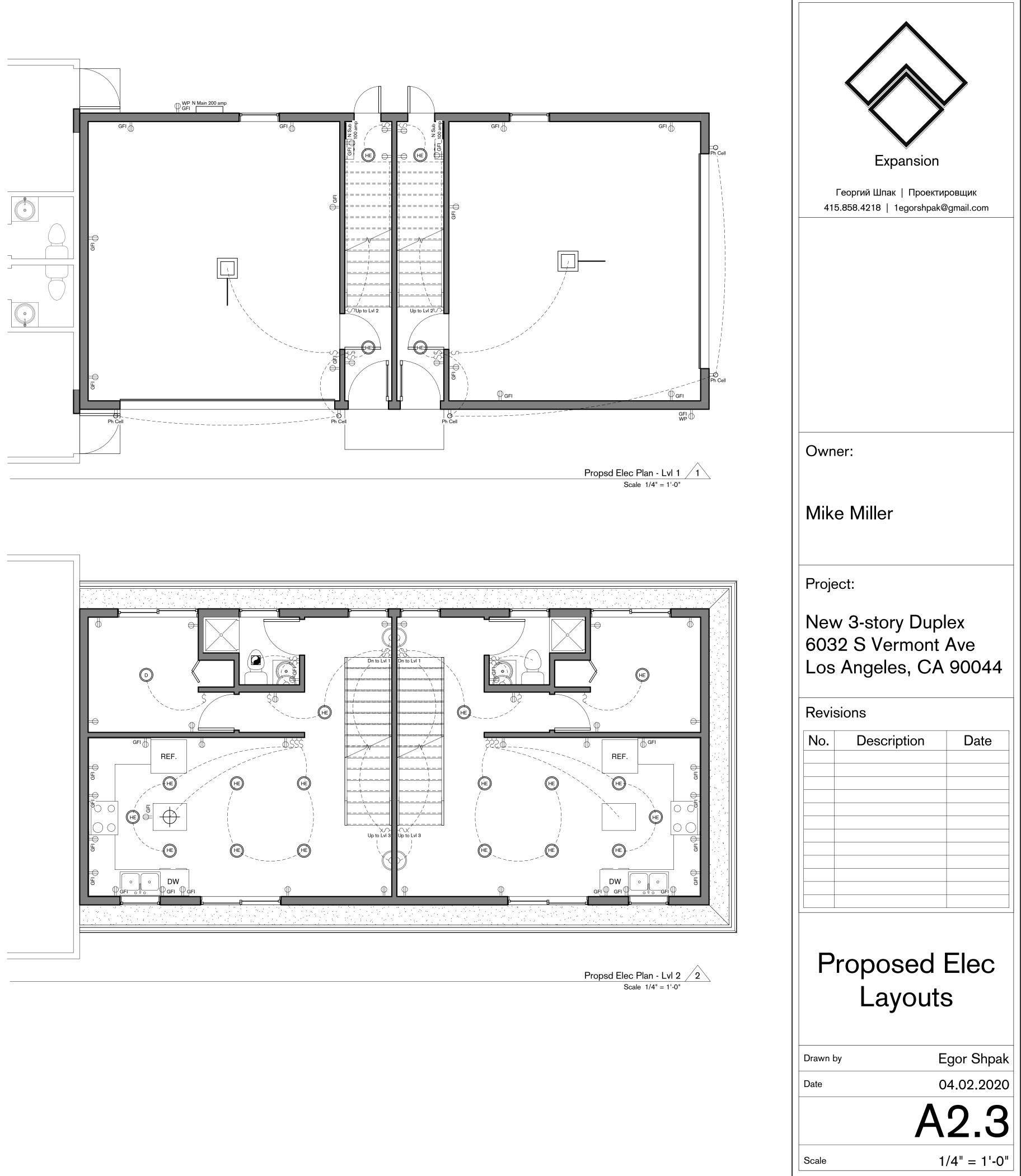
re on sensor

oter

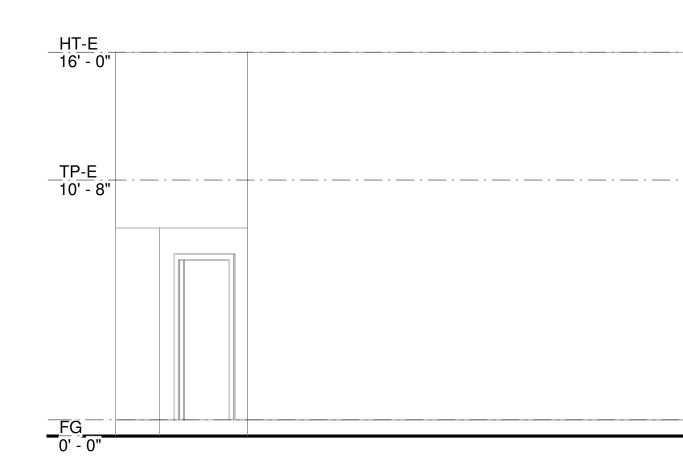
d fault interrupter

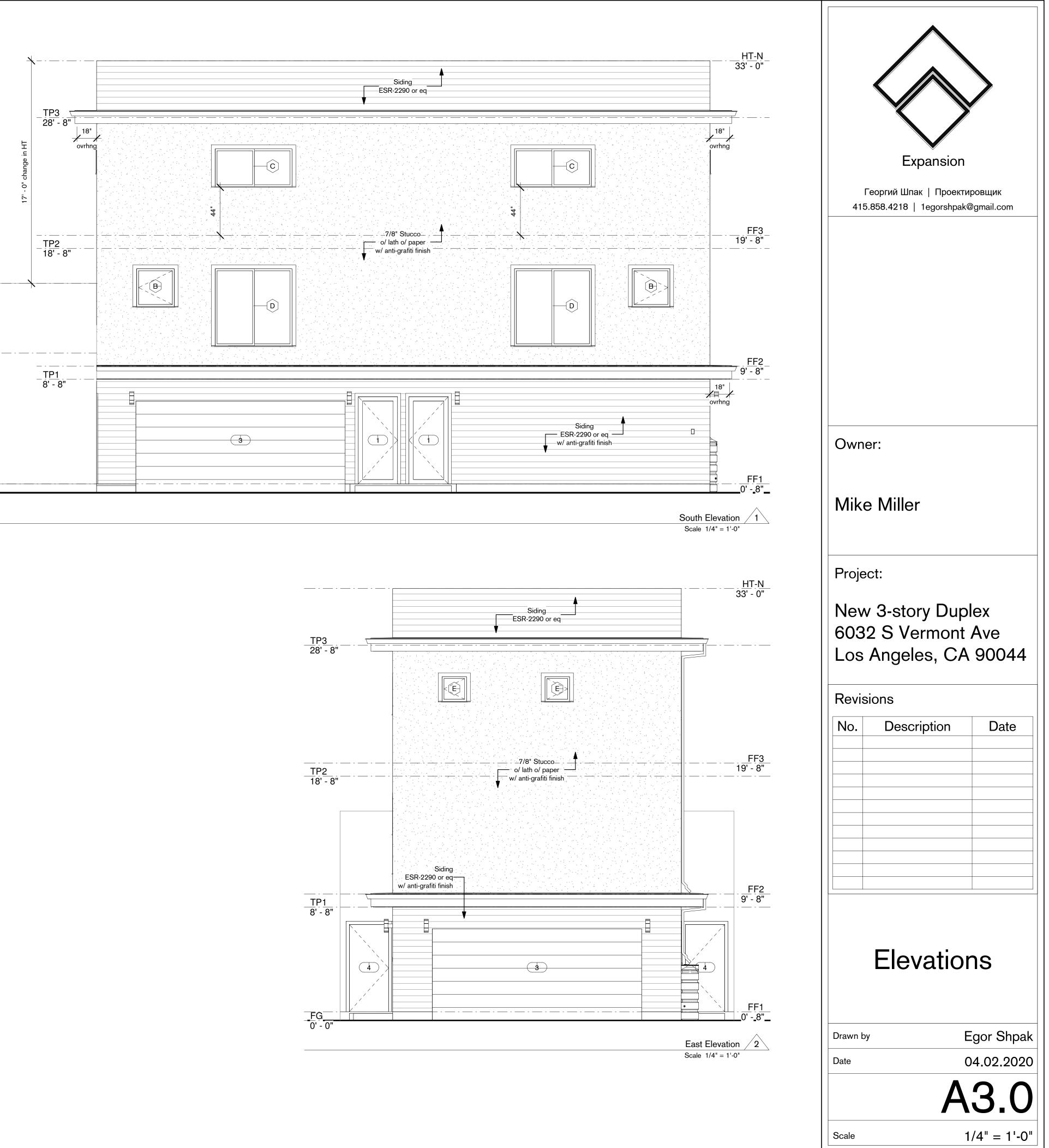
interrupter

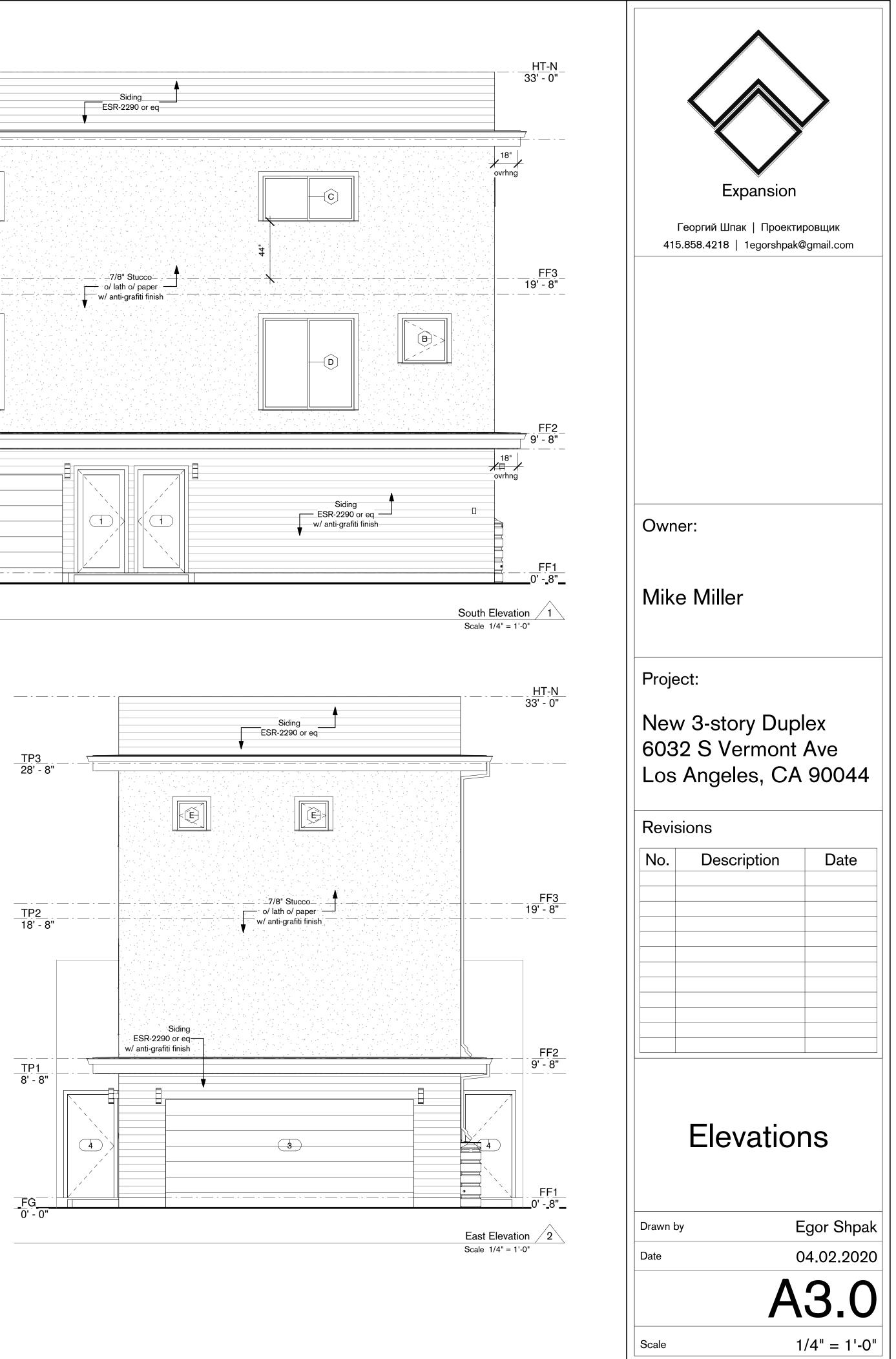
shall be "Energy Star" compliant, ate to the outside of the building. as a component of the whole st be controlled by **3.1**)

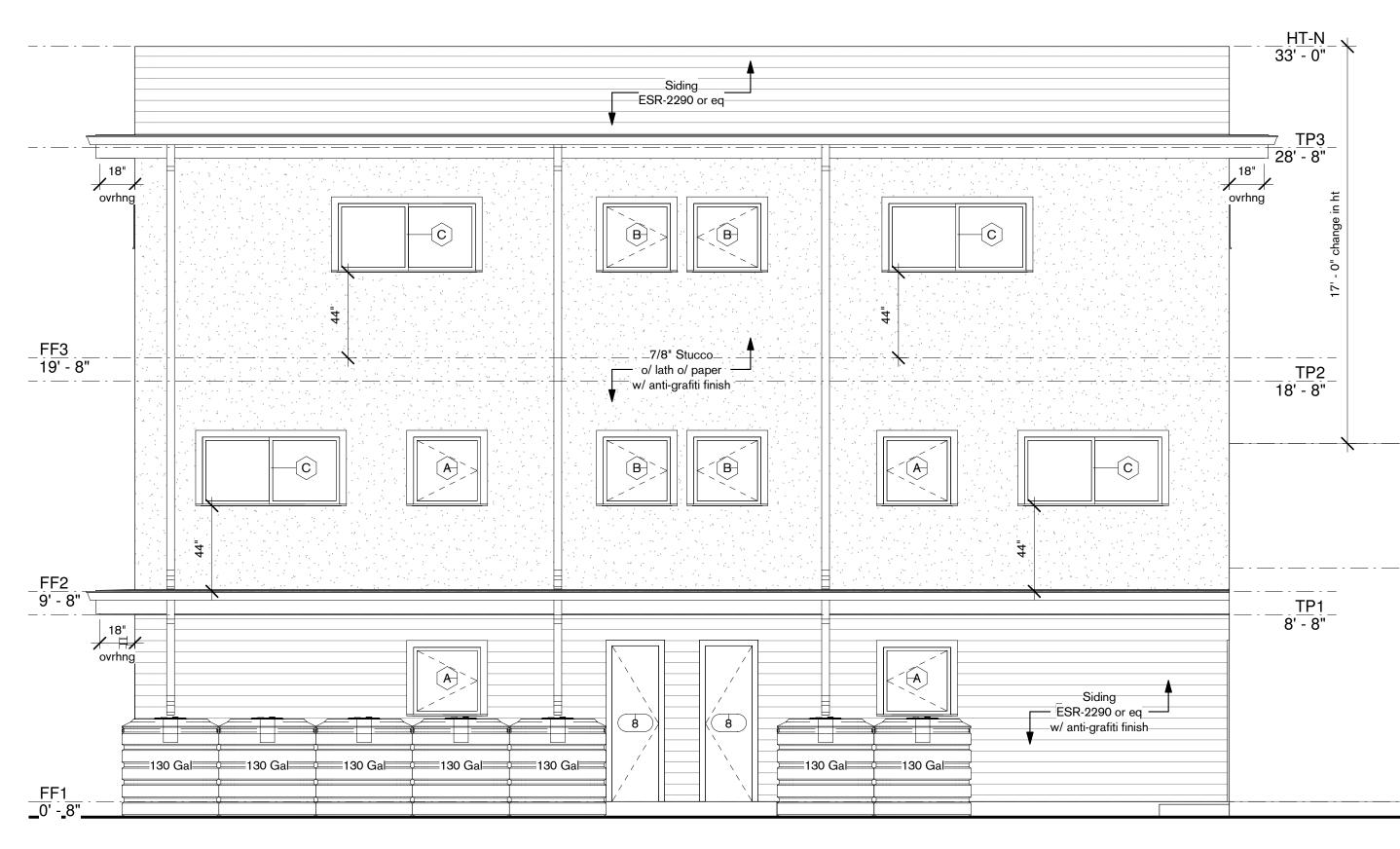


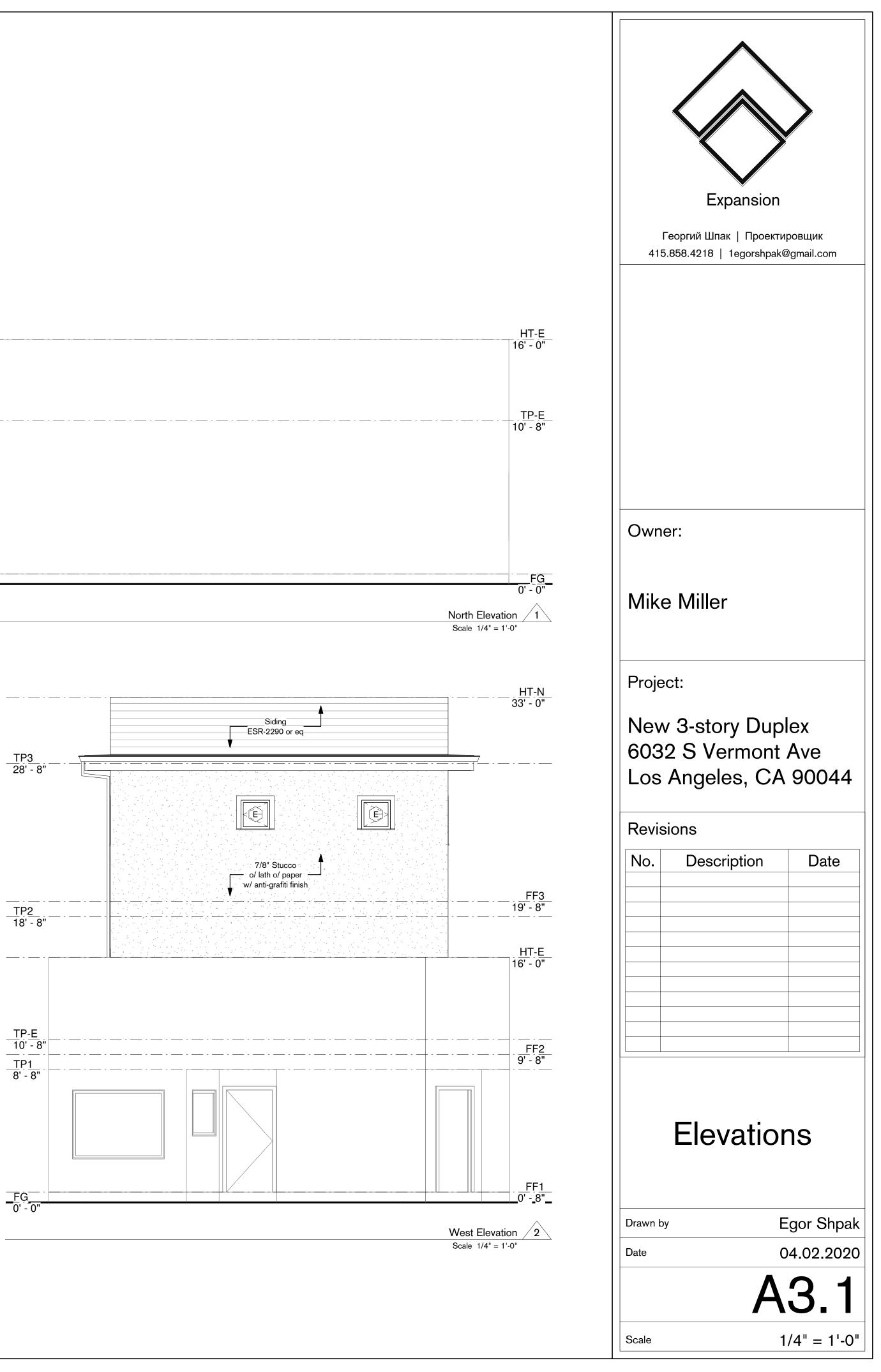
Propsd Elec Plan - Lvl 3 3 Scale 1/4" = 1'-0"

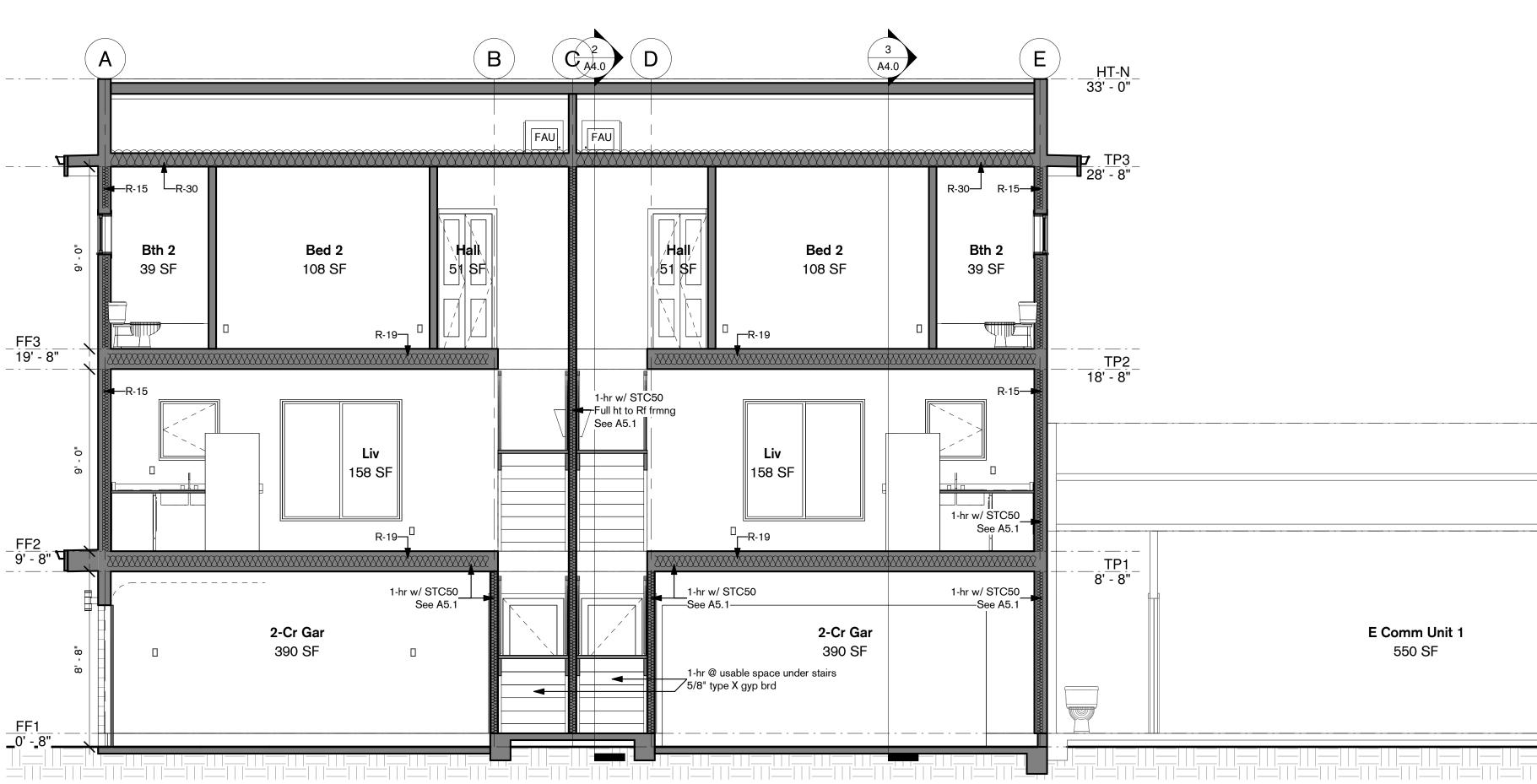


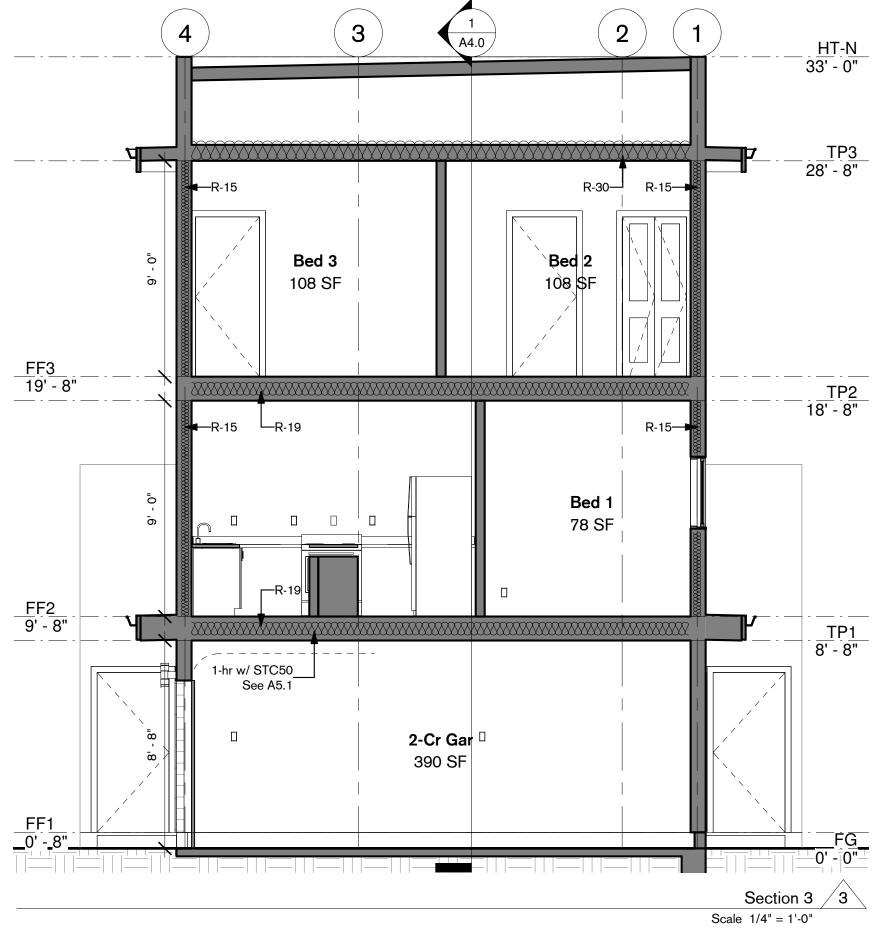


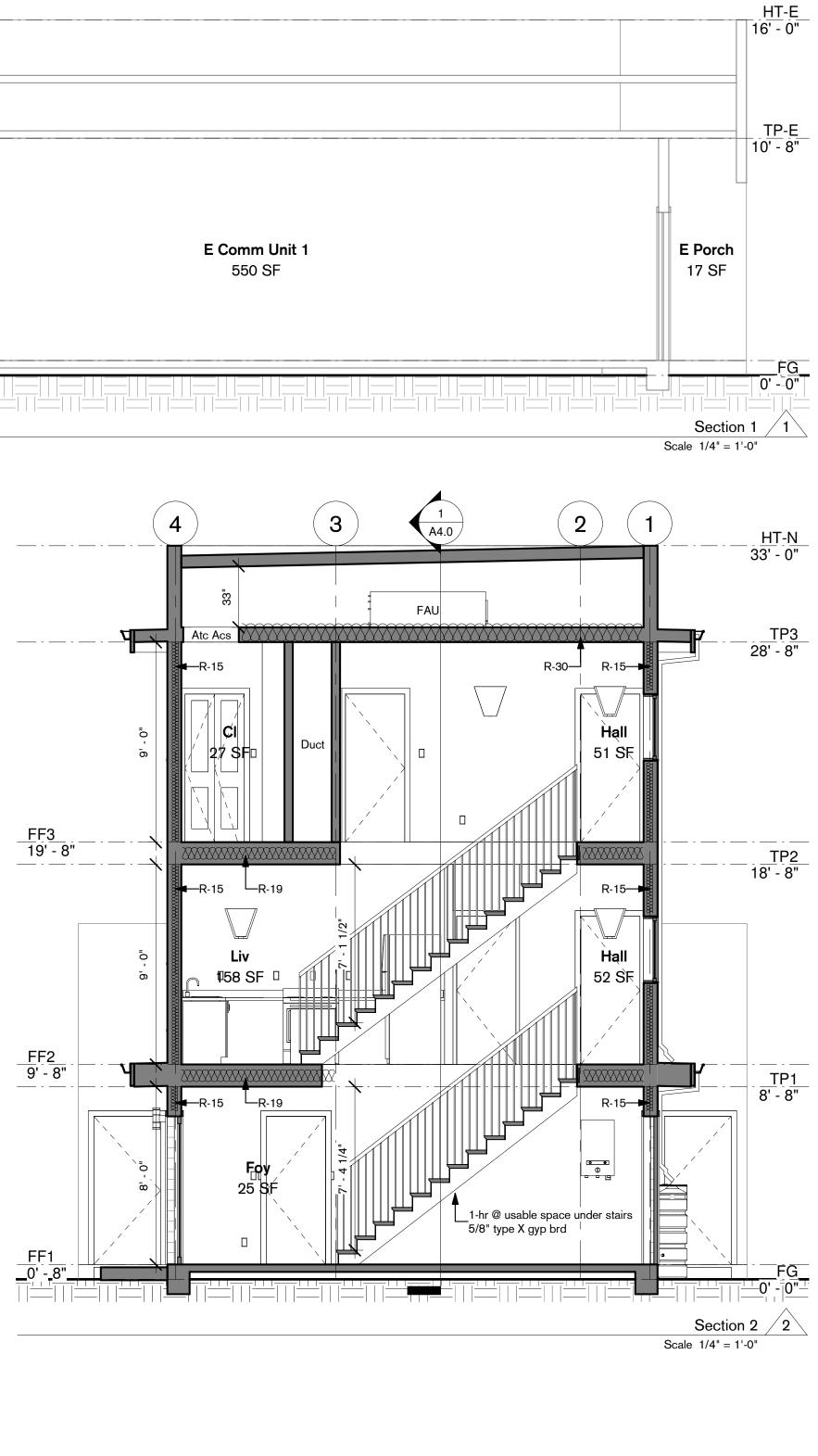




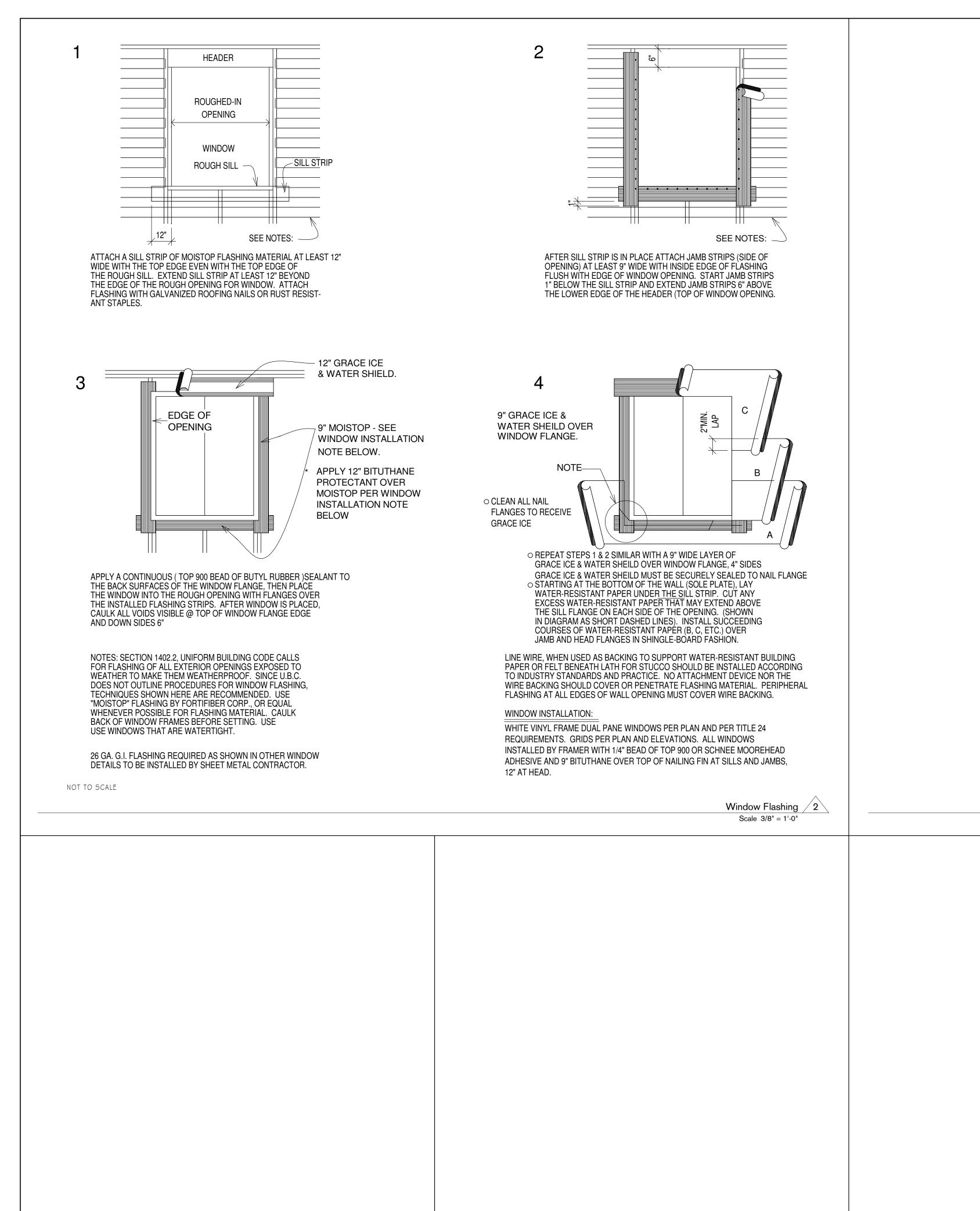


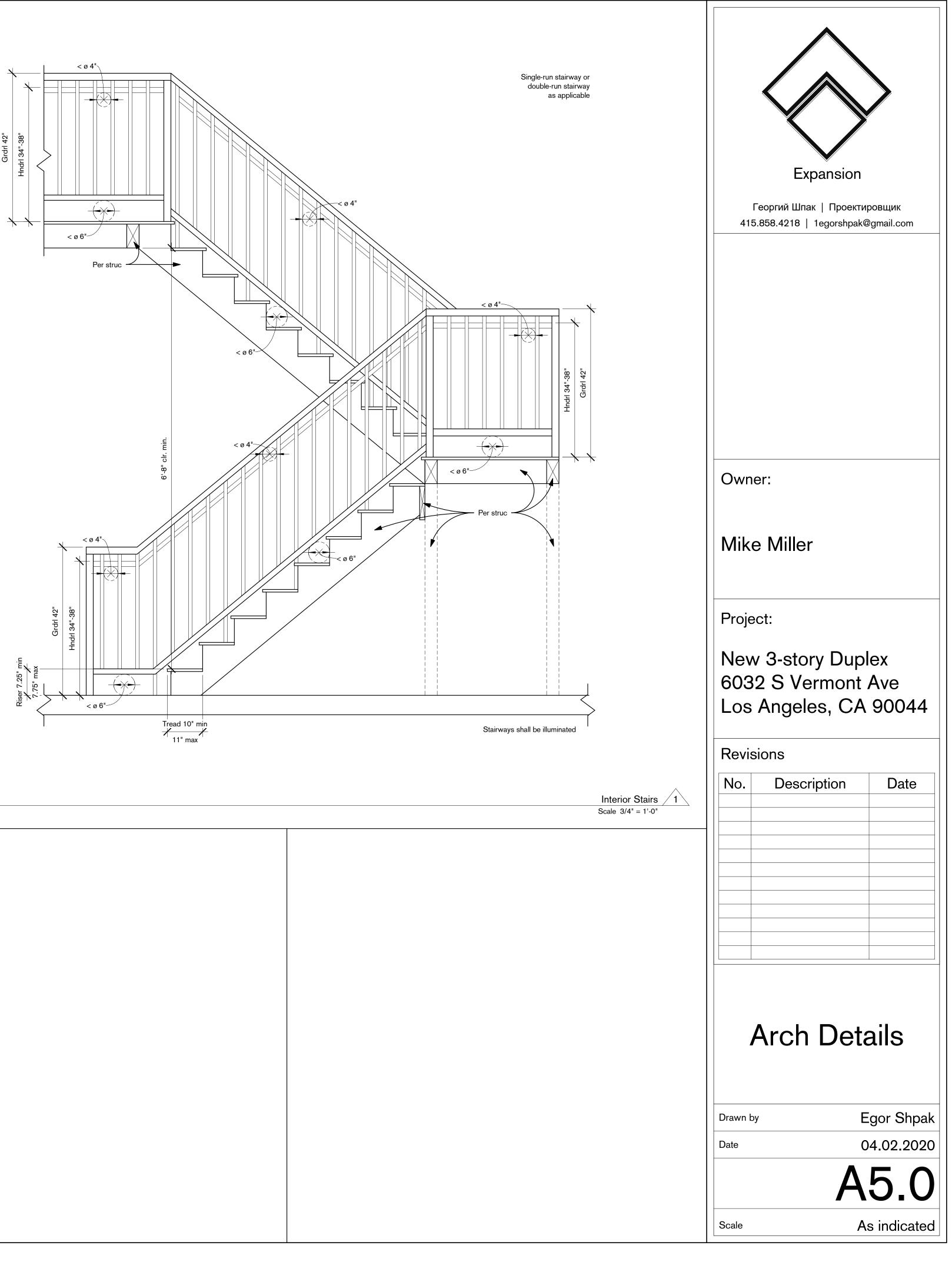


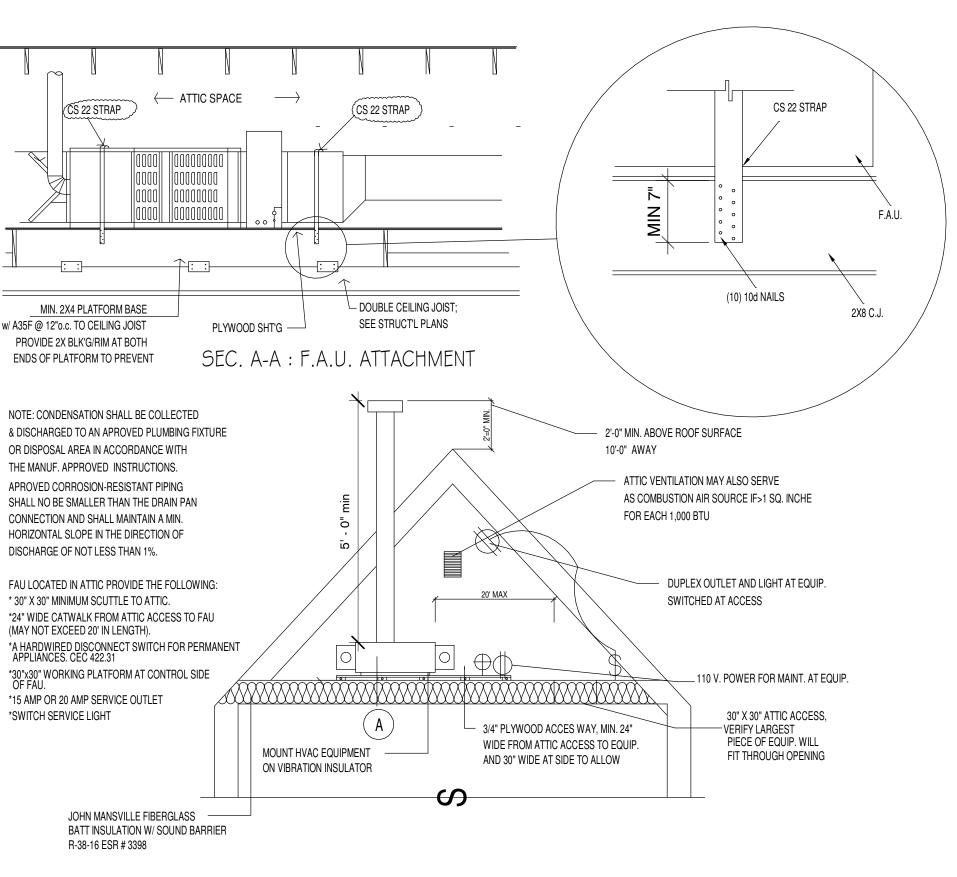












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	QP/		Dì



INFORMATION BULLETIN / PUBLIC - BUILDING CODE ELA DBS REFERENCE NO.: LABC 1207 & LARC Effective: 01-01-2020

DOCUMENT NO. P/BC 2020-069 DEPARTMENT OF BUILDING AND SAFETY Previously Issued As: P/BC 2017-069

Revised:

SOUND-RATED PARTITIONS AND **FLOOR-CEILING CONSTRUCTION**

In accordance with Section 1207.9.1 and Section 1207.10 of the Los Angeles Building Code (LABC), walls and floor ceiling assemblies separating dwelling units or guest rooms from each other and from public or service areas (such as interior corridors, garages, and mechanical spaces) shall provide airborne sound insulation for walls, and both airborne and impact sound insulation for floor-ceiling assemblies.

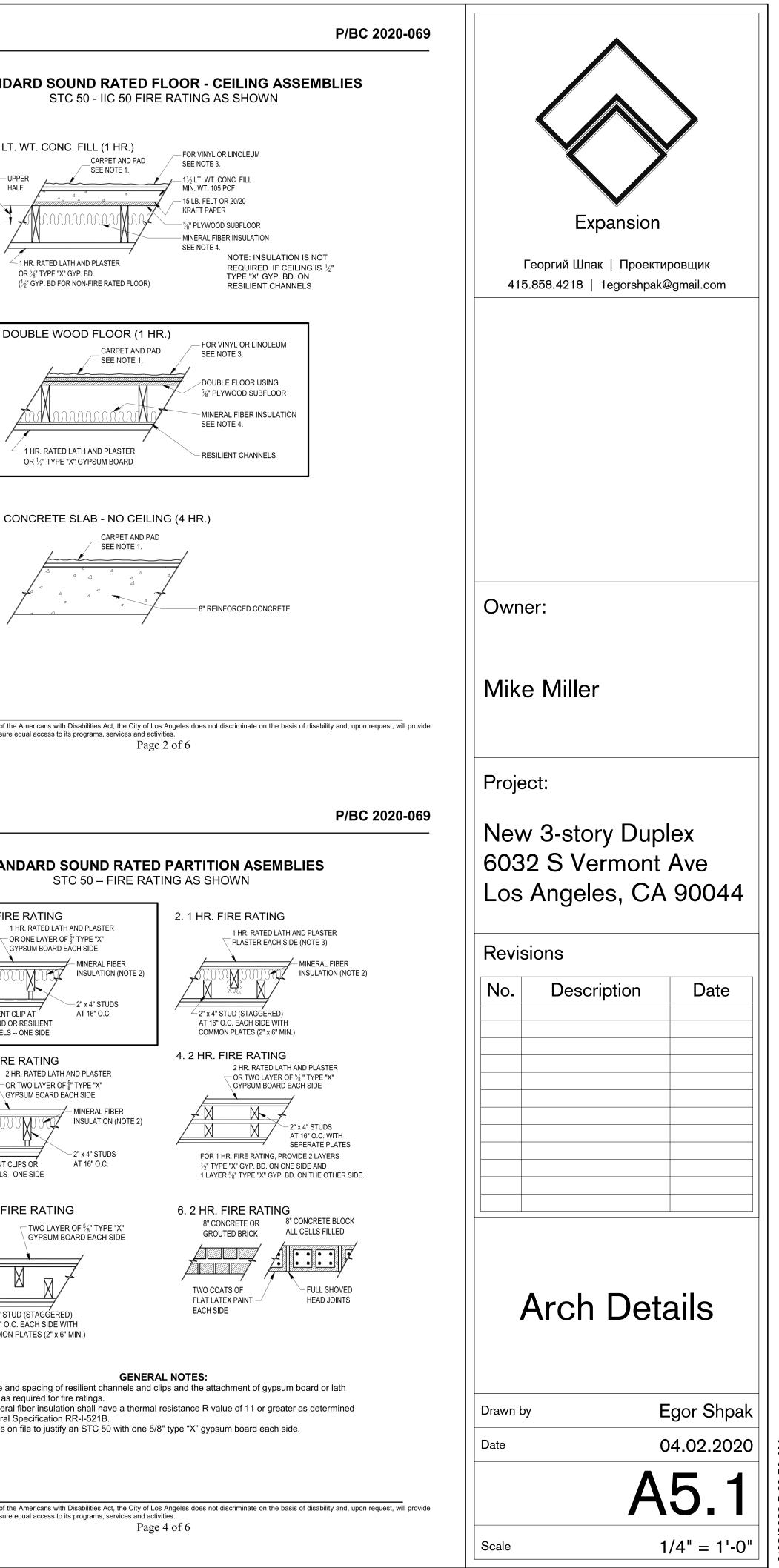
Partitions and floor-ceiling assemblies constructed in accordance with the diagrams shown herein are considered to have Sound Transmission Class (STC) ratings and Impact Insulation Class (IIC) ratings of 50 as shown. They may be used to meet the acoustically rated construction requirements stipulated in Sections 1207.10 and 1207.11 of the LABC. Other assemblies may be used provided that they comply with the requirements of Section 1207.12 of the LABC. Laboratory and field tests to establish general approvals require an STC rating of 50 for walls and floors and an IIC rating of 50 for floors. The specified rating of 45 for field-tested assemblies (noted in Section 1207.10 of the LABC) is to be used for acceptance of individual jobs only.

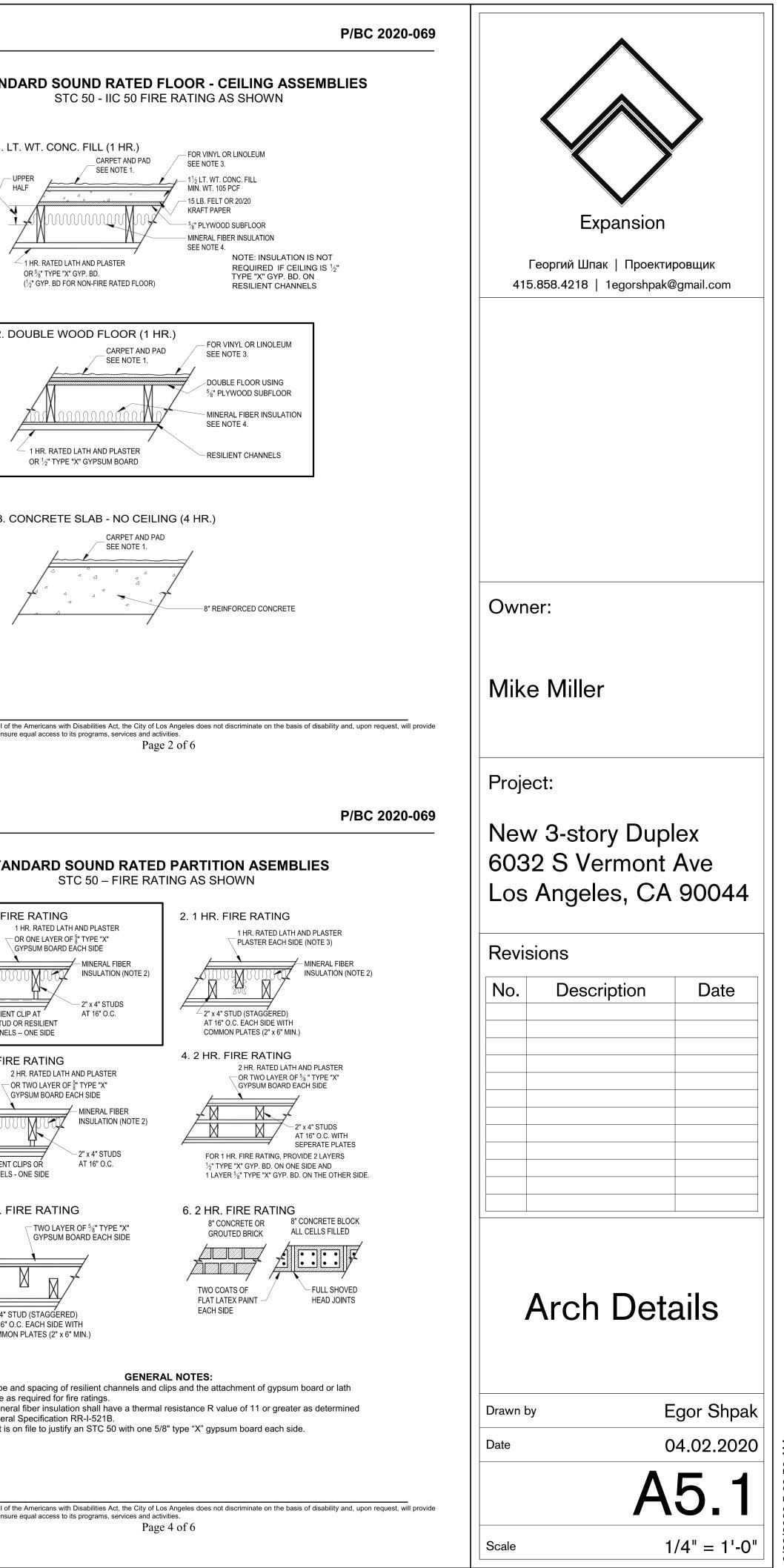
The following notes shall be provided on the plans or in their contents delineated as details on the plans.

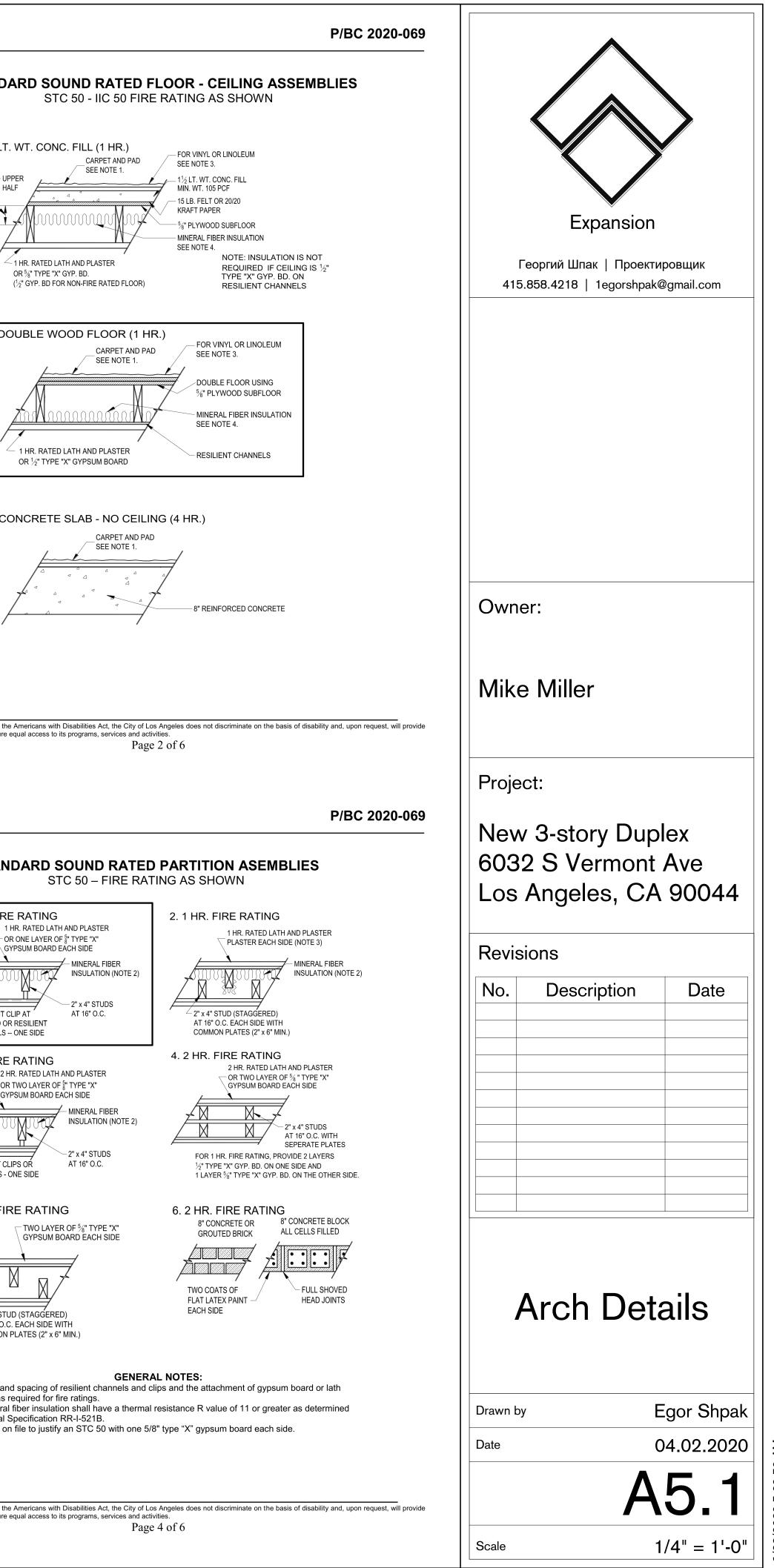
- 1. All penetrations into sound rated partitions or floor-ceiling assemblies shall be sealed, lined, or insulated with an approved permanent resilient sealant.
- 2. All rigid conduits, ducts, plumbing pipes, and appliance vents located in sound rated assemblies shall be isolated from the building construction by means of resilient sleeves, mounts, or a minimum 1/4" thick approved resilient material.
- 3. An approved permanent and resilient acoustical sealant shall be provided along the joint between the floor and the separation walls.
- 4. Metal ventilating and conditioned air ducts located in sound rated assemblies shall be lined (Exception: Ducts serving only exit ways, kitchen cooking facilities, and bathrooms need not be lined).
- 5. Mineral fiber insulation shall be installed in joist spaces whenever a plumbing, piping, or duct penetrates a floor-ceiling assembly or where such unit passes through the plane of the floor-ceiling assembly from within a wall. The insulation shall be installed to a point 12" beyond the pipe or duct. This requirement is not applicable to fire sprinkler pipe, gas line or electrical conduit.
- 6. Electrical outlet boxes in opposite faces of separation walls shall be separated horizontally by 24" and note that back and sides of boxes shall be sealed with 1/8" resilient sealant and backed by a minimum of 2" thick mineral fiber insulation.
- 7. No wall furnace shall be installed in sound rated partitions.
- 8. No electrical panel shall be installed in sound rated partitions.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities Page 1 of 6

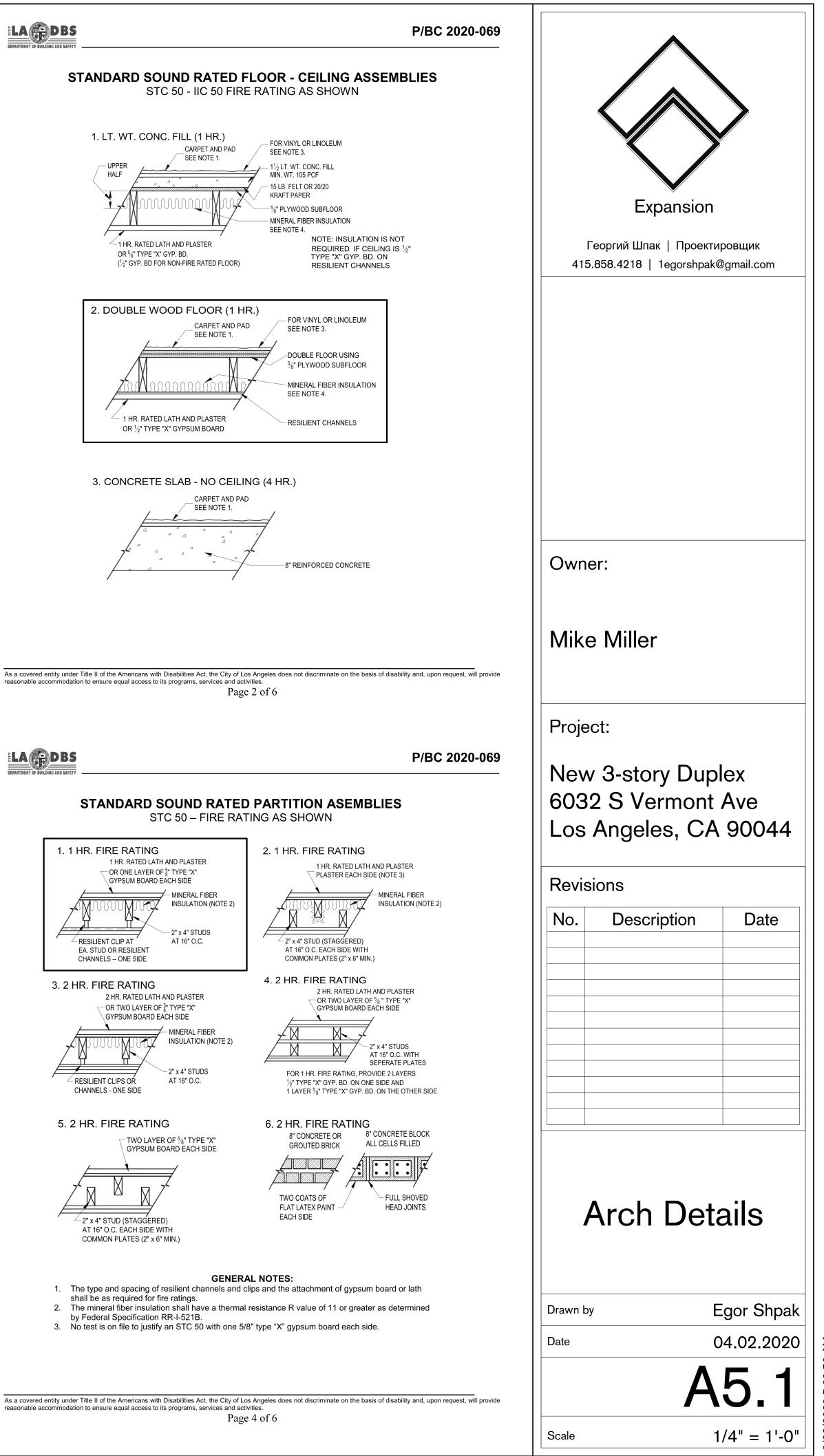
> FAU in Atc / 1 Scale 1/4" = 1'-0"











FOUNDATION NOTES

1. CONCRETE SLAB-ON-GRADE 4" THICK WITH #4 @ 16" OC EACH WAY. SLAB SHALL BE OVER 10 MIL VAPOR BARRIER OVER 4" OF 1/2" GRAVEL. SLAB SHALL HAVE .5 MAX WATER-TO-CEMENT RATIO.

2. ALL HOLDOWNS AND ANCHOR BOLTS SHALL BE SECURED IN PLACE BY TEMPLATE PRIOR TO FOUNDATION INSPECTION AND STRUCTURAL OBSERVATION. HOLDOWNS ANCHOR NUTS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING. PLATE WASHERS ARE REQUIRED FOR ALL BOLTED HOLDOWNS.

3. FOOTING PSI SHALL BE AS SPECIFIED ON SHEET S4.0.

BE OBSERVED & APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.

5. ALL EXCAVATIONS SHALL BE APPROVED BY THE CITY BUILDING INSPECTOR.

ATTACHED TO TOP AND BOTTOM PLATES w/ "A35" ON 2 SIDES, (4 TOTAL PER POST). ALL BEAMS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP PLATES w/ "A35" EACH SIDE.

7. WOOD FRAMING MEMBERS INCLUDING WOOD SHEATHING THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8" FROM EXPOSED EARTH SHALL BE NATURALLY DURABLE AND PRESERVATIVE TREATED WOOD.

FOOTING, EXTEND CONTINUOUS FOOTING REINFORCING INTO PAD FOOTINGS PER LAP SPLICE SCHEDULE.

9. ALL MEMBERS SPECIFIED AS DRAG TO HAVE B.N.

PAD FOOTINGS. PROVIDE ADD'L MAT OF #4 @ 16" o.c. EACH WAY @ BOTTOM IN HARDY FRAME PAD FOOTINGS.

11. A COPY OF THE GLENDALE RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

12. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES.

13. REFER TO CURRENT SOILS INVESTIGATION REPORT FOR SOIL CONDITIONS AS APPLICABLE.

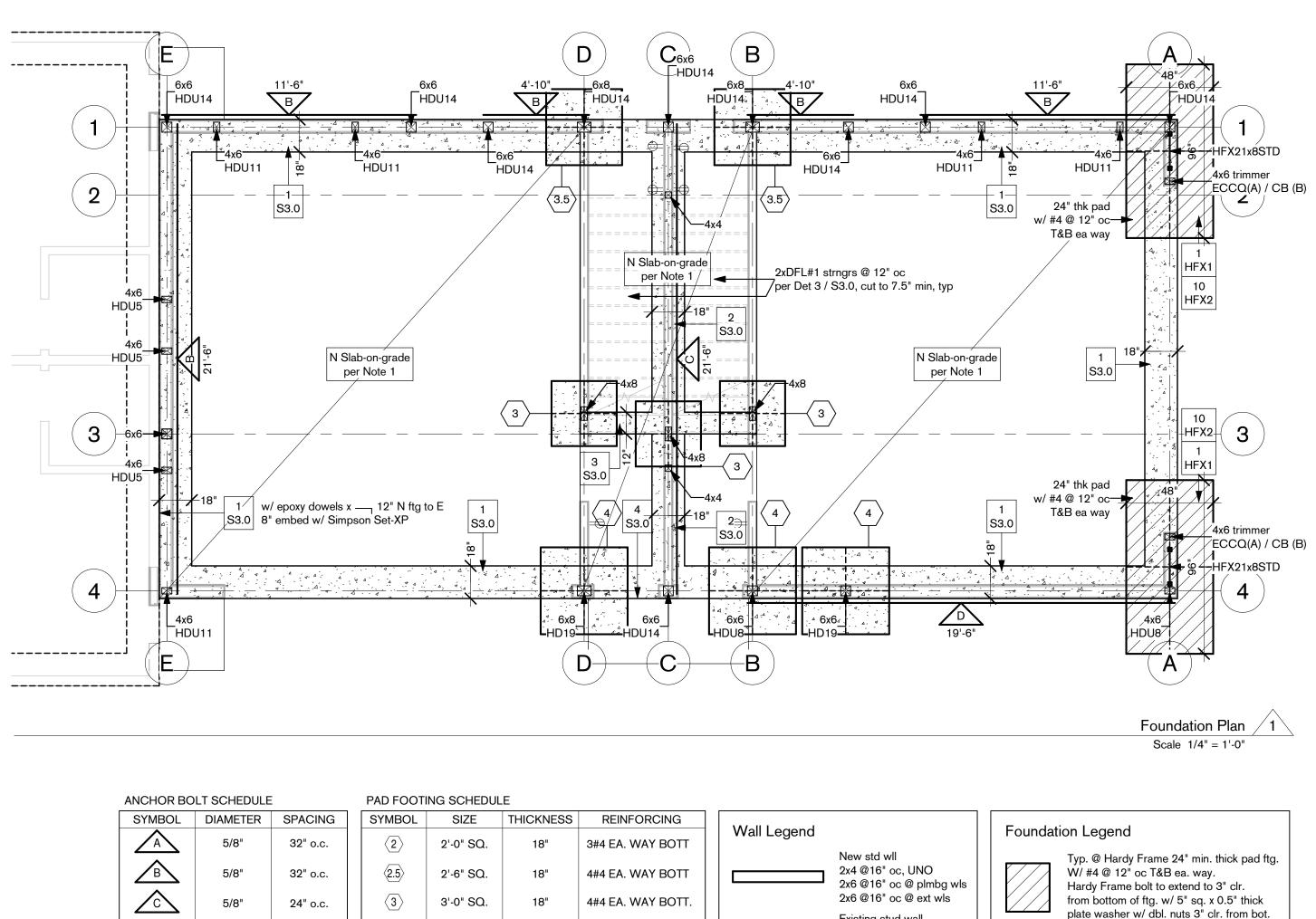
NOTIFY ENGINEER IF CONDITIONS ARE DIFFERENT THAN SHOWN ON THIS PLAN.

4. ALL GRADING AND FOUNDATION EXCAVATIONS SHALL

6. POSTS WITHOUT SPECIFIED CONNECTORS SHALL BE

8. WHERE CONTINUOUS FOOTING INTERSECTS w/ PAD

10. FOOTING REINF. TO RUN CONT. THRU HARDY FRAME



5/8" 16" o.c. BB 5/8" 16" o.c. 5/8" 12" o.c. 5/8" 10" o.c.

$\langle 3 \rangle$	3'-0" SQ.	18"	4#4 EA. WAY BOTT.
3.5	3'-6" SQ.	18"	5#4 EA. WAY BOTT.
4	4'-0" SQ.	18"	5#4 EA. WAY BOTT
$\langle 5 \rangle$	5'-0" SQ.	18"	6#5 EA. WAY BOTT.
6	6'-0" SQ.	18"	8#5 EA. WAY T&B

BOTTOM OF PAD FOOTINGS @ SAME LEVEL AS STRIP
FOOTINGS U.N.O. AND HAVE 18" MIN. EMBED. INTO
BEARING MATERIAL AND 24" MIN EMBED BELOW
LOWEST ADJACENT GRADE.

Wall Legend	
	Nev 2x4 2x6 2x6
	Exis 2x4
	Der

IN ADDITION TO SHEAR WALLS, 5/8" DIA @ 48" o.c. A.B. ARE REQ'D @ ALL EXTERIOR & BEARING WALLS w/ 7" MIN. CONC. EMBED. w/ 2 BOLTS MIN. PER PIECE, 5" MIN. & 12" MAX. FROM ENDS. SEE S4.0 AND SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS. MIN. PLATE WASHER SIZE FOR 5/8" DIA A.B. IS 3"x3"x.229"

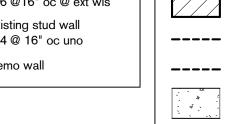


plate washer w/ dbl. nuts 3" clr. from bot. E ftg to remain N ftg per 1 & 2, S3.0

N pad ftg per schedule on S1.0

XxX HDUX Post w/ holdown per plan (LARR# 25828)

Expansion Георгий Шпак | Проектировщик 415.858.4218 | 1egorshpak@gmail.com HAAN Owner: Mike Miller Project: New 3-story Duplex 6032 S Vermont Ave Los Angeles, CA 90044 Revisions Description Date No. Foundation Plan Drawn by Paul Boranian, Egor Shpak 04.02.2020 Date **S1.0** 1/4" = 1'-0" Scale

WOOD FRAMED ROOF/ FLOOR NOTES

1. AT WOOD FRAMING, FLOOR SHALL BE OVER OVER 3/4" PLYWOOD CDX, PII 48/24 T & G w/ 10d COMMON NAILS @ 6, 12" o.c. UNBLOCKED. WHERE BLOCKED DIAPHRAGM IS SPECIFIED PER PLAN BLOCK ALL EDGES w/ FLAT 2x4 AND 10d COMMON NAILS @ 4; 6; 12" o.c. SEE 2/S3.3 FOR ADD INFO.

2. AT WOOD FRAMED ROOF, ROOFING SHALL BE OVER 5/8" PLYWOOD, CD-X P11 32/16, w/ 10d COMMON NAILS @ 6; 12" o.c. UNBLOCKED. WHERE BLOCKED DIAPHRAGM IS SPECIFIED PER PLAN BLOCK ALL EDGES w/ FLAT 2x4 AND 10d COMMON NAILS @ 4; 6; 12" o.c. SEE 2/S3.3 FOR ADD INFO.

3. SHEAR WALLS SHALL RUN FULL HT. BETWEEN THE FLOOR / ROOF OR FLR / FLR DIAPHRAGMS.

4. MINIMUM POST SIZE IS 4x4 IN 2x4 WALLS, AND 4x6 IN 2x6 WALLS.

5. STUD WALL THICKNESS SHALL BE THE GREATER OF WHAT IS REQUIRED PER THESE STRUCTURAL PLANS OR WHAT IS REQUIRED PER ARCHITECTURAL PLANS. EXTERIOR WALLS, BEARING WALLS, OR SHEAR WALLS SHALL BE 2X6 @ 16" O.C. MINIMUM FOR STUD HEIGHTS IN EXCESS OF 10'.

6. SEE TYPICAL NOTES ON S-1 AND TYPICAL DETAIL SHEETS FOR ADD INFO.

7. HEADER LENGTHS GREATER THAN 5'-0" OR SUPPORTING A BEAM OR POST SHALL HAVE DBL 2x OR 4x TRIMMERS U.N.O.

8. ALL FLUSH BM. TO BM. CONNECTIONS TO USE SIMP. "HGUS" HNGR @ FLRS & HUTF @ RF U.N.O.

9. LICENSED FABRICATOR REQUIRED FOR GLU-LAM BEAMS, ML, TJI & STRUCTURAL STEEL

10. WELDING SHALL BE DONE BY WELDERS CERTIFIED BY THE CITY BUILDING DEPARTMENT FOR STRUC. STEEL.

11. PROVIDE DBL JOISTS UNDER ALL PARALLEL PARTITION WALLS OR SHEAR WALLS.

12. ALL POSTS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP AND BOTTOM PLATES w/ "A35" ON 2 SIDES, (4 TOTAL PER POST). ALL BEAMS WITHOUT SPECIFIED CONNECTORS SHALL BE ATTACHED TO TOP PLATES w/ "A35" EACH SIDE.

13. ALL MEMBERS SPECIFIED AS DRAG TO HAVE B.N.

14. CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE CITY INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SEC. 1

15. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH f'c>2500 psi, HIGH STRENGTH BOLTING, SPRAYED-ON FIREPROOFING, ENGINEERED MASONRY, HIGH-LIFT GROUTING, PRE-STRESSED CONCRETE, HIGH LOAD DIAPHRAGMS AND SPECIAL MOMENT-RESISTING CONCRETE FRAMES.

16. FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD.).

17. GLUED-LAMINATED TIMBERS MUST BE FABRICATED IN A LADBS LICENSED SHOP.

18. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS. AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS 4 INCHES ON CENTER OR LESS.

19. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES.

20. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7.

21. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS.

22. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED.

23. HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION. 24. A COPY OF THE LOS ANGELES RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

25. FASTENERS IN PRESERVATIVE TREATED WOOD OR FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL.

26. FIELD WELDING TO BE DONE BY WELDERS CERTIFIED BY THE LADBS FOR (STRUCTURAL STEEL) (REINFORCING STEEL) (LIGHT GAUGE STEEL). CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED.

27. SHOP WELDS MUST BE PERFORMED IN A LADBS LICENSED FABRICATOR'S SHOP.

28. LADBS LICENSED FABRICATOR IS REQUIRED FOR TRUSSES, STRUCTURAL STEEL, PARALLAMS.

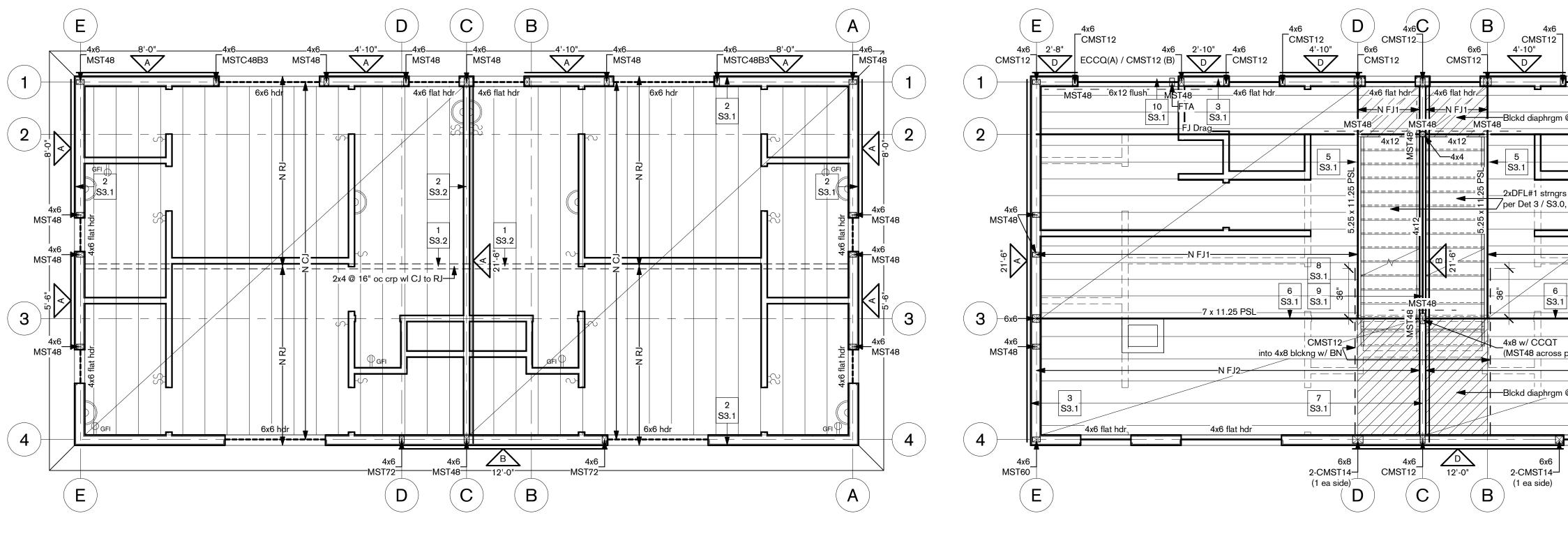
29. PROVIDE LEAD HOLE 40% - 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.

30. PROVIDE MST48 ACROSS ANY BROKEN TOP PLATES, OR WHERE TOP PLATES END AND TRANSITION TO A BEAM. AT BREAK DUE TO CONTINUOUS HSS COLUMN, TOP PLATE SHOULD BE TIGHTLY FITTED AGAINST COLUMN OR COLUMN NAILER AND SPLICED w/ MST48.

31. PROVIDE MST48 MIN. STRAP ACROSS ALL BROKEN TOP PLATES @ CC LOCATIONS, HSS LOCATIONS, OR SIMILAR.

32. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS.

33. UNLESS SHOWN OTHERWISE ON THE PLANS, PROVIDE A POST BELOW ENDS OF ALL BEAMS (OR POSTS ABV.) TO MATCH THICKNESS OF STUD WALL AND WIDTH OF BEAM (OR POST ABOVE).



INTERIOR SIZE 4x4 OR DI 2x4 (ON ED 4x6

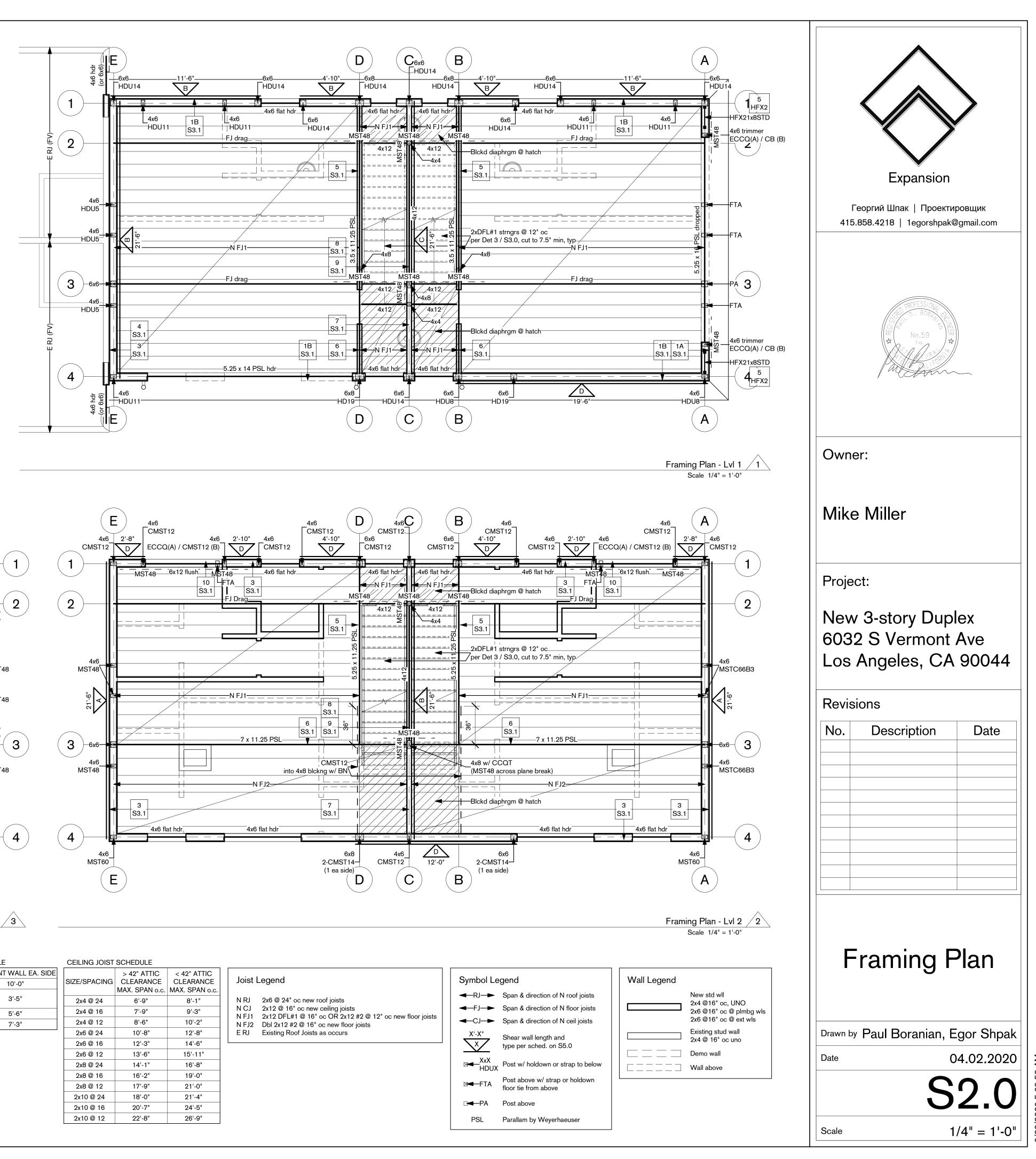
Framing Plan - Rf 3 Scale 1/4" = 1'-0"

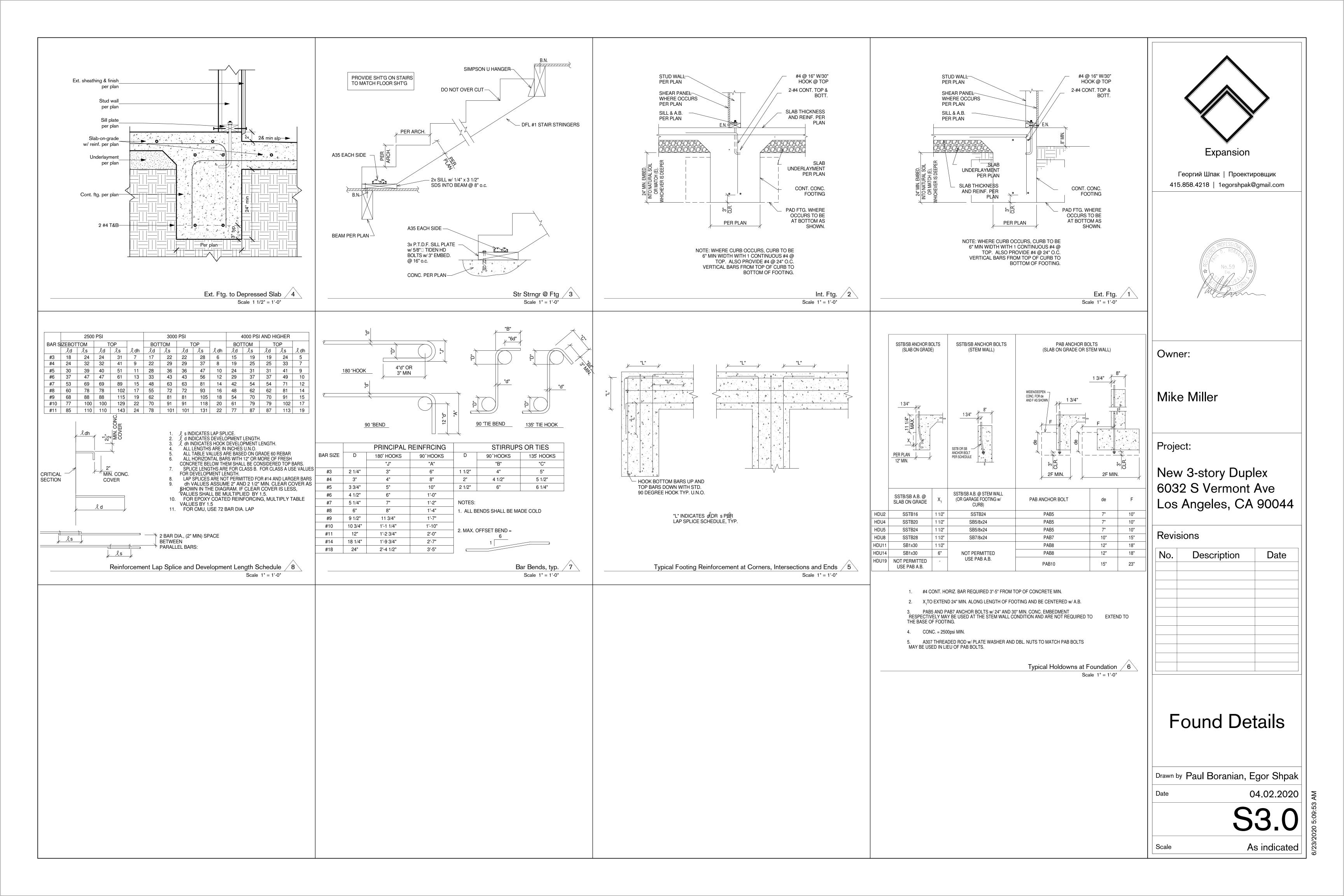
ERIOR NONBEARING WALL HEADER SCHEDULE					
SIZE	MAX. AVG. DISTANCE TO ADJACENT WALL EA. SIDE				
SIZE	5'-0" OR LESS	10'-0"			
4 OR DBL. (ON EDGE)	4'-9"	3'-5"			
4x6	7'-8"	5'-6"			
4x8	10'-1"	7'-3"			

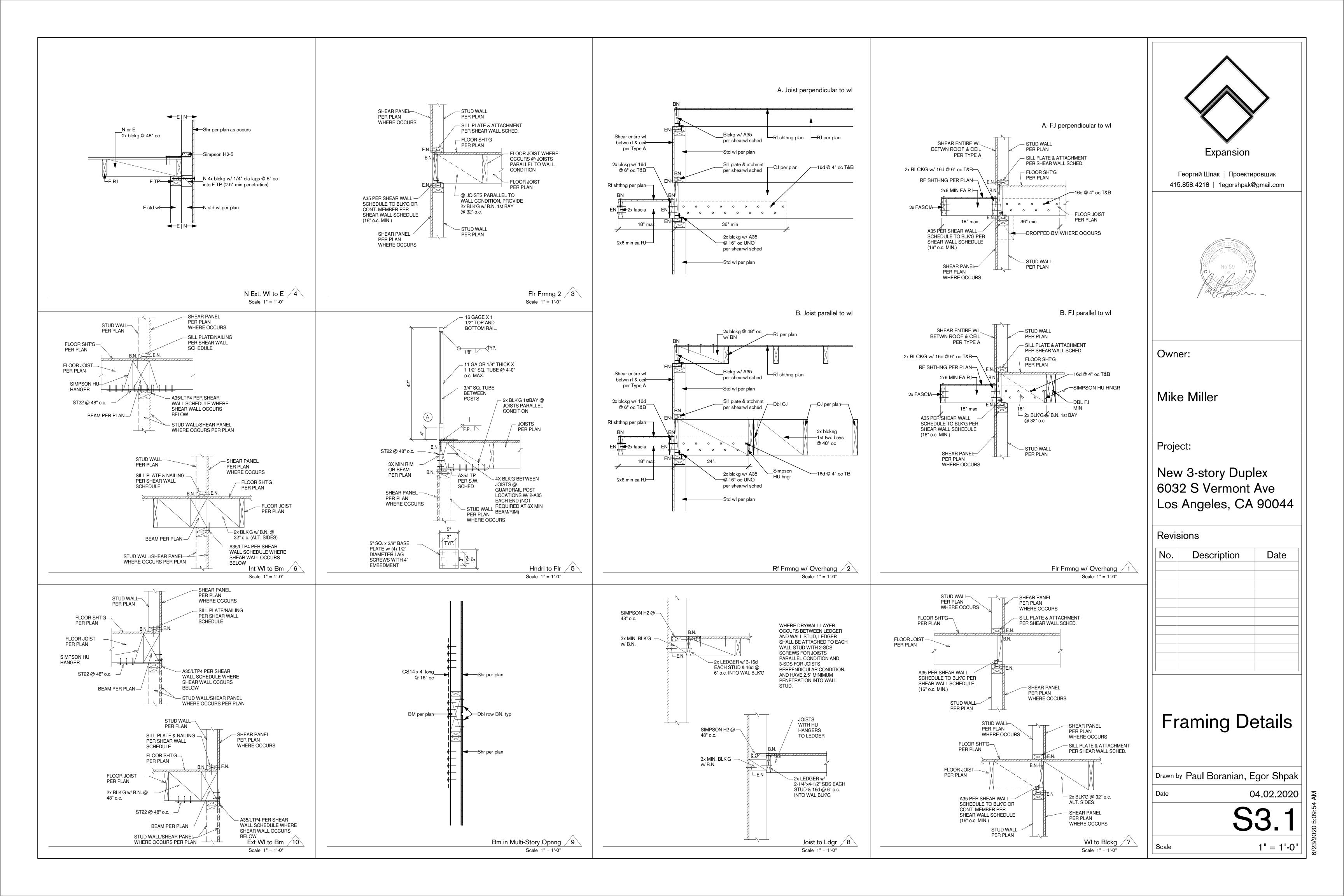
SIZE/SPACING	> 42" ATTIC CLEARANCE MAX. SPAN o.c.	< 42" ATTIC CLEARANCE MAX. SPAN o.c.
2x4 @ 24	6'-9"	8'-1"
2x4 @ 16	7'-9"	9'-3"
2x4 @ 12	8'-6"	10'-2"
2x6 @ 24	10'-8"	12'-8"
2x6 @ 16	12'-3"	14'-6"
2x6 @ 12	13'-6"	15'-11"
2x8 @ 24	14'-1"	16'-8"
2x8 @ 16	16'-2"	19'-0"
2x8 @ 12	17'-9"	21'-0"
2x10 @ 24	18'-0"	21'-4"
2x10 @ 16	20'-7"	24'-5"
2x10 @ 12	22'-8"	26'-9"

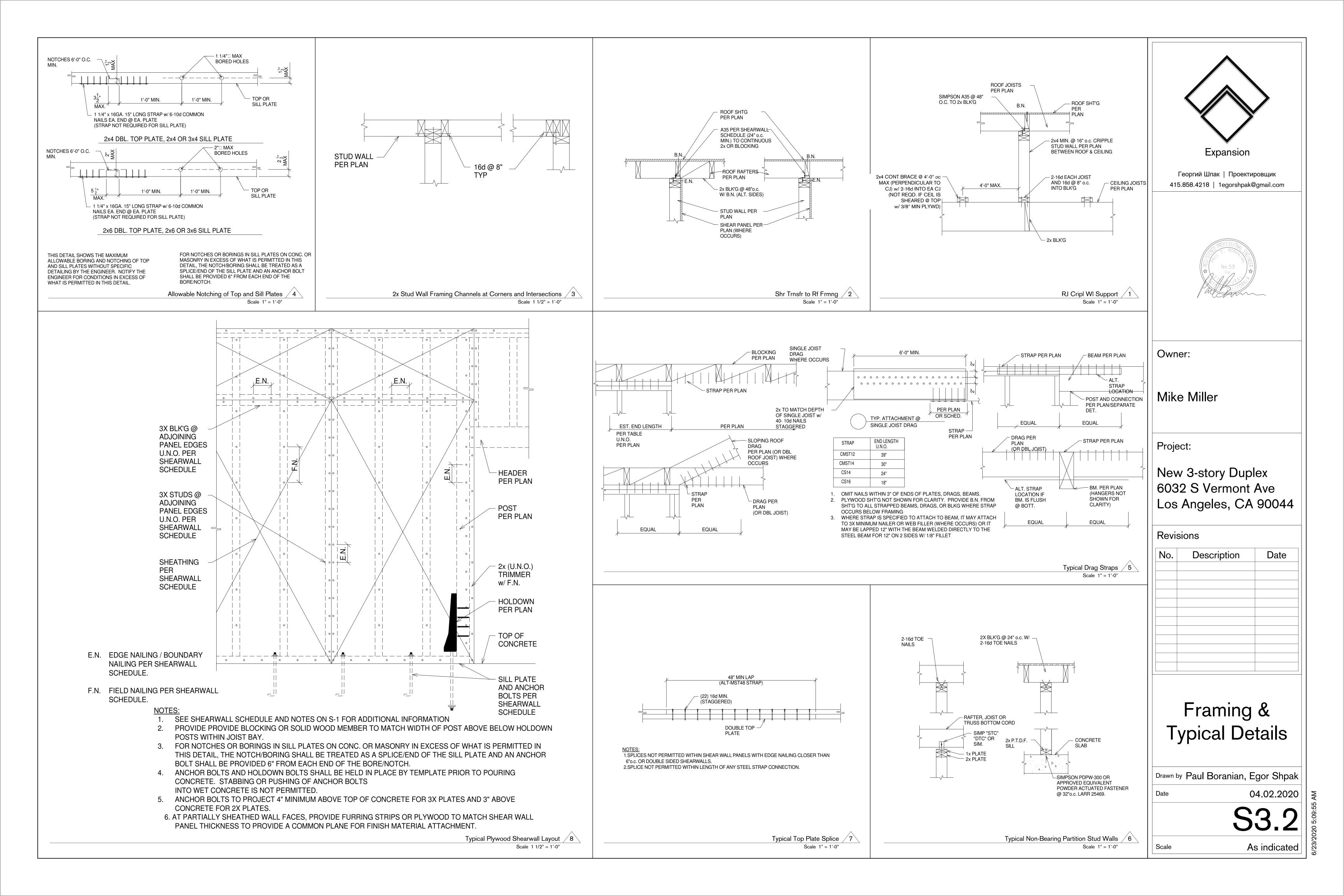
Joist Legend N RJ 2x6 @ 24" oc new roof joists N CJ 2x12 @ 16" oc new ceiling joists

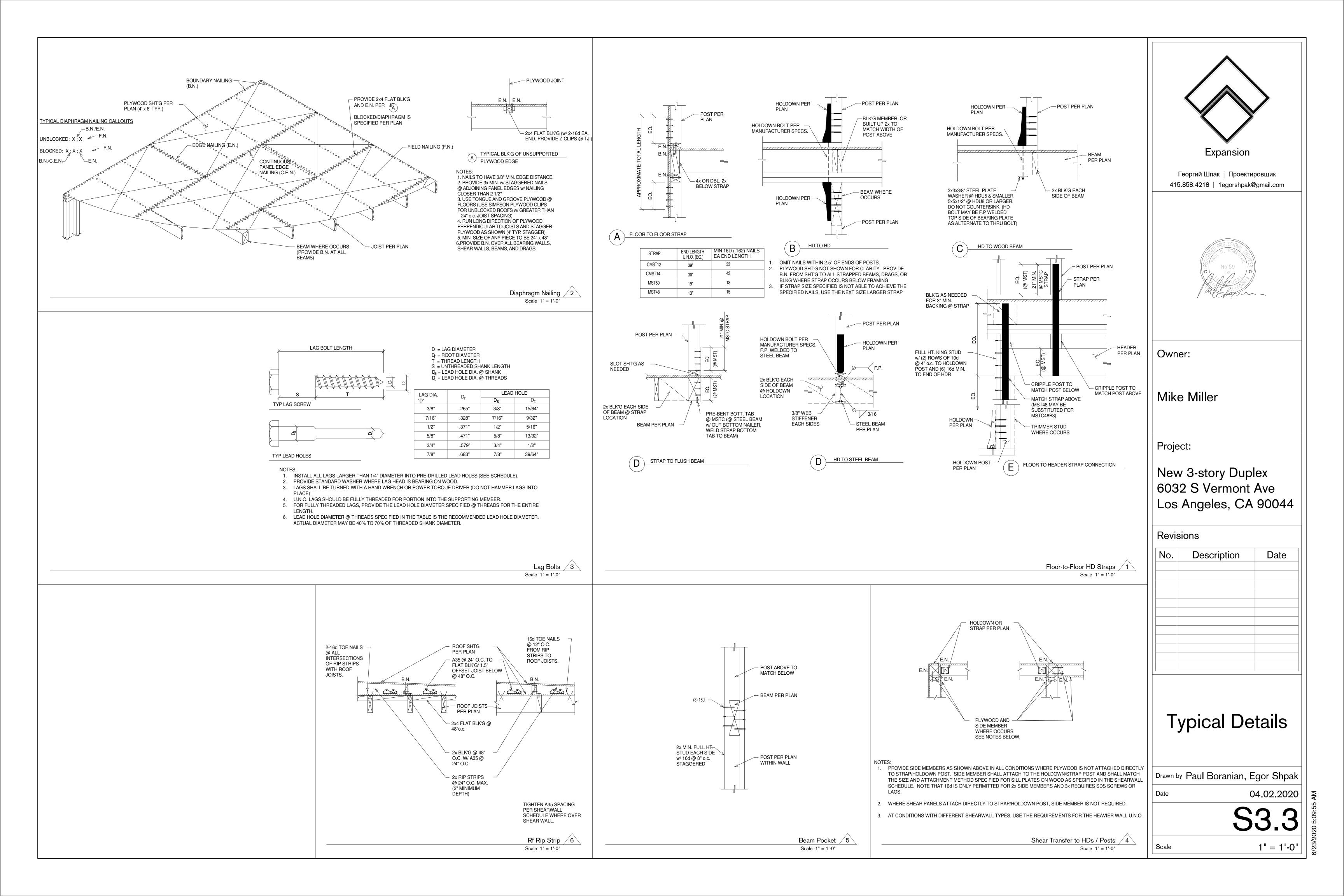
Symbol Le	gen
∢ —RJ — ►	Spa
∢ —FJ —►	Spa
∢ —CJ — ►	Spa
$\frac{X'-X''}{X}$	She type
⊠ ⊸ _XxX HDUX	Pos
⊳ ₩	Pos flooi











Materials and workmanship shall comply with the 2019 version of the California Building Code (CBC), the most current amendments by the governing agency, and the most current UMC, UPC, NEC codes and their

GENERAL REQUIREMENTS

- referenced standards. Details noted as "Typical" or "Typ." apply to all parts of the work. Typical
- details may not be specifically referenced in the drawings. The general contractor shall coordinate all work between the trades and coordinate all field conditions, dimensions, elevations, etc. and notify the owner or owners representative regarding any discrepancies prior to proceeding.
- The structural drawings shall be used along with the architectural,
- mechanical, grading, electrical, and plumbing plans. Any discrepancy between the structural and any other discipline shall have the intent interpreted by the architect.
- Written dimensions shall take priority over scaled dimensions. Do not scale the structural drawings.
- The contractor is responsible for all shoring/bracing during construction. The structure is engineered to be stable once all components are in place.
- Specifications relating to waterproofing are outside the scope of these drawings and should be specified by the by the project architect or water proofing consultant.
- These drawings are intended to be utilized in conjunction with a licensed contractor with adequate experience and knowledge in this specific type of construction, and the ability to properly read and understand these drawings.

DESIGN	CR

DE3	IGN CR	IIERIA		
<u>DESIGN LOADS</u>			WIND CRITERIA	
Roof Dead Load: Roof Live Load: 3rd Floor Dead Load: 2nd Floor Dead Load:	18 psf 20 psf 16 psf 20 psf		ULt.Wind Speed: Risk Category: Wind Exposure: Gcpi:	110 mph 2 B .85
SEISMIC CRITERIA			C≱CPSF∶	18.5
Occupancy Category:		2		
Importance Factor:		I		
Site Class:		D		
Latitude (deg.North):		33.984		
Longitude (deg.East): Mapped Spectral Resp.Param		-118.292 Ss =1.8 S1 = .65	165	
Design Spectral Resp.Param:		SDS = SDI = .		
Seismic Design Category		Е		
Redundancy Factor, p:		1.0		
Seismic Force Resisting Syste	em:	Wood	Shear Walls	
Design Base Shear V=Cs≭W∶ (strength level)		V=.230	W	
Response Mofification Factor,	R:	6.5		
Analysis Procedure Used:		Equiv.	Lat. Force	

FOUNDATION DESIGN

- The foundation design is based on the 2019 CBC code minimum, Bearing = 1,500 psf
- The soils report (if there is one) shall be followed and a copy shall be available on site at all times.
- All foundation excavations (if there is a soils report) shall be observed and approved by the project engineering geologist and project geotechnical engineer prior to placement of reinforcing steel. The approval shall be left on site for the building inspector at foundation inspection.
- The building inspector shall inspect and approve excavations prior to placement of reinforcing steel. Excavation methods are the responsibility of the contractor and shall
- be implemented in a safe manner and to not to undermine any existing structures.
- All holdowns and anchor bolts shall be set in place by template prior to foundation inspection.
- All holdown anchor nuts shall be tightened just prior to covering.

DEPUTY INSPECTIONS

- Special inspections, corresponding reports and testing shall be provided in accordance with chapter 17 of the CBC/LABC.
- The individual/agency performing the inspection shall be authorized by the applicable building department in the specific component being inspected.
- Special inspections (performed by a deputy/special inspector) are different than and in addition to Structural Observations (which are performed by the 📔 engineer) and Building inspections (performed by the city,county or governing agency building inspector)
- Copies of the special inspection reports shall be sent to the owner, engineer, and building department within 7 days of the inspection and a copy of the report shall be available on site for any corresponding structural observations.
- The following work shall be performed in the presence of a special inspector and shall comply with the requirements of section 1705 of the CBC/LABC regarding specific requirements and whether the required inspection is periodic or continuous.
- Placement of concrete with specified f'c >2500 psi
- Field welding
- All Masonry
- Epoxied reinforcing or rods. High strength bolting
- All shotcrete
- Seismic force resisting systems, i.e. moment frames, brace frames, hardy frames, cantilever columns, wood shear walls and diaphragms with specified nailing 4" o.c. or closer.

ADDITIONAL LARR #'S

25712, 25716, 25851, 25878, 25906, 25942, 25952, 25957, 25827, 24682, 25120, 25560, 25625, 25705, 25818, 25818, 25985, 25469, 25643, 25670, 26030, 25185, 25803, 25804, 25279, 25711, 25807, 25801, 25802, 25837, 25489, 25891, 25907, 25946, 25800, 25910, 25917, 25741, 25661, 26009, 26125, 25725, 25828, 25962, 25966, 25965, 25718, 25726, 25950, 25960, 25814, 25714, 25713, 25744, 25293, 25936, 25730

FRAMING NOTES

- All framing shall be performed in accordance with chapter 23 of the California Building Code, the National Design Specification for Wood Construction (NDS), and details indicated on the drawings. All structural lumber shall be Douglas Fir Larch (DFL) U.N.O. and marked in
- accordance with the latest edition of the standard grading rules of the West Coast Lumber Inspection Bureau (WCLIB) and conform to the following grades: DFL No.2 lx,2x,3x members:
 - DFL No. I and Better 4x members: Larger than 4x Members: DFL No. 1
- The moisture content for structural lumber at the time of installation shall not exceed 16% for 6x and larger members and shall not exceed 19% for all other members.
- Laminated Veneer Lumber (Microlam LVL) and Parallel Strand Lumber (Parallam PSL) and Laminated Strand Lumber (Timberstrand LSL) shall be per Weyerhaeuser (LARR #25202) in accordance with the following properties:

- LVL, PSL, and LSL members shall not be used in exposed exterior applications unless fully protected from moisture. Members specified on the drawings which are intended to be used in an exposed exterior condition may use "Parallam Plus PSL" or an alternative subject to approval by the engineer.
- Glue-Laminated members shall be fabricated and inspected in accordance with all requirements of the building department and shall be Douglas Fir grade 24F-V4U.N.O.
- 6. Prefabricated wood I-joists shall be TJI by Weyerhaeuser (LARR #25538) 7. Hardy frames(where occur) shall be per LARR #25391 and attached HFX sheets
- 8. All sill plates, sleepers, that sit on concrete slabs in contact with the earth, or concrete or masonry foundations or walls and all wood members
- within 8" of earth, shall be naturally durable or pressure treated. 9. All lumber shall be free of splits, checks, shakes, or other objectionable
- defects. 10. Provide double joists below all parallel partitions and bathtubs/jacuzzi tubs u.n.o.
- II. Joists and rafters shall have I I/2" minimum bearing length on supports or shall be supported by approved hangers.
- 12. Provide solid 2x blocking (same depth as joists) between joists at 8' o.c. maximum, and below perpendicular partitions, and where specified otherwise by these drawings. Refer to LARR # 25539 for blocking requirements for TJI joists.
- 13. Fire stops shall be provided in accordance with the architectural drawings and chapter 7 of the CBC.
- 14. Framing surrounding metal box type fireplaces shall be continuous 2x4 minimum studs at 12" o.c. fully sheated and nailed per shearwall type "A" (see shearwall schedule). Where framing extends outward past the exterior wall of the building, a continuous horizontal Simpson CSI4 strap into 2x blocking between studs shall be provided around the fireplace framing at the floor and roof levels which ties into a parallel floor/roof joist 24" minimum or ties into 2x blocking between joists at perpendicular framing for 6' minimum.
- 15. Bored holes, cutting, notching is not permitted in beams unless specifically approved by the engineer.
- Unless approved by the engineer, Bored holes in joists or rafters shall not exceed I/6 of the member depth and shall not be located within the middle third of the span, within 18" from the face of support of the member, within 2" from the top or bottom of the member, outside the middle third of the members depth, or spaced closer than 6 diameters on center. Bolts and threaded rods for wood members to be ASTM A307 / ASTM A36 / ASTM F 1554 GR.36 u.n.o.
- All bolts and lags shall use standard steel cut washers u.n.o. so the bolt head does not bear directly against wood.
- Fasteners including nuts and washers in contact with preservative treated wood shall be of hot-dipped galvanized steel. Plain carbon steel fasteners may be used in SBX/DOT and zinc borate preservative treated wood for interior, dry conditions.
- Wood Structural panels shall conform to the requirements for their type i DOC PS I or PS 2 and each panel shall bear the APA grade stamp.
- 25. All structural panels used for floors and roofs shall conform to the thickness and panel span rating specified per the plan.
- 26. Structural plywood panels shall be 4 ply minimum for walls and 5 ply minimum for floors and roofs.
- 27. Structural panel sheathing shall be manufactured with exterior glue (exposure | or exterior) and if permanently exposed to the weather shall have an exterior exposure durability classification.
- Nails into structural panels shall be placed 3/8" minimum from the edge of the panels and shall not be overdriven.
- Provide 1/8" minimum gap between plywood sheets. U.n.o , where plywood panels run past the top and bottom plates and over the blocking or rim at floor levels, provide 3/8" minimum horizontal gap between the plywood edges at that location.
- U.N.O., plywood shall be oriented with the face grain perpendicular to the framing members for floors and roofs.
- Structural panels for diaphragms and shear walls shall not be cut less than 2' in the smaller dimension and shall not be less than 8 square feet in area.
- Nails shall be wire nails in accordance with the NDS and all nails unless specified otherwise shall be common nails. Nails with smaller heads, lengths, or diameters than the specified nail are not permitted.

STRUCTURAL STEEL

- Fabrication and erection of steel shall be per the California Building Code chapter 22 and AISC 360.
- Structural steel U.N.O. shall conform to the following ATSM specifications: Wide Flanges: A992 grade 50 (50 ksi yield)
- Pipe: A53 grade B (35 ksi yield)
- HSS Tube (square, rectangular, round): A500 grade B (46 ksi yield) Channels: A36-(36 ksi yield)
- Plate: A36 (36 ksi yield), except at moment frames plates shall match moment frame steel type.
- All bolts, nuts, washers for structural steel members to be per ASTM A325 u.n.o. All structural steel shall be primed and painted except steel left permanently exposed to weather should be galvanized, and steel encased in concrete shall be left unpainted.
- 5. Submit shop drawings to engineer prior to fabrication.
- Welding shall be per the latest edition of AISC/AWS and use E70xx electrodes U.N.O. . Any welds not specified shall be continuous fillet welds not less than the
- thinner piece joined but not less than 3/16" 8. Steel shall be fabricated in a licensed fabrication shop certified by the
- governing building department.
- 9. All field welding, high strength bolting, requires deputy inspection.

Structural Observation is required fo with the Information Bulletin No. P/BC visual observation at the construction of the structural system at significa complete structure for general conf specifications. Structural Observatio the inspections required of the building The owner shall employ a State of Ca engineer or licensed architect to per Department of Building and Safety (L) or architect, or his/her designee res are independent of the contractor. 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. The Structural Observer shall perform site visits at those steps in the Place studs at 16" o.c. maximum and provide 4x minimum post at each end of wall u.n.o. 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 either the "Structural Anchor bolts shall have 7" minimum concrete embedment u.n.o. and be 5" minimum and 12" maximum from ends/splices and shall have Observation/Significant Construction Stages" form or the "Structural 3"x3"x.229" minimum plate washers Provide 3x minimum studs at adjoining panel edges for all shearwalls except type "A" walls which may us 2x. (where plywood is Observation Program and Designation of the Structural Observer" form IN/Form.08 (Part 2) require a site visit and an observation report from the

Structural Observer. The Structural Observer shall be called out at the following stages of construction:

concrete/cmu walls abv. where occurs. observation prior to covering the 2nd side form). nailing (prior to plating), structural connections.

<u>-Prior to covering wood shearwalls:</u> to observe wall nailing, holdowns, anchor bolts/shear transfers. <u>-Final observation</u>: to observe that all previous deficiencies were resolved and structure is in general conformance with plans.

- The Structural Observer shall prepare a report of the "Structural attached to the plans shall be signed and sealed (wet stamp) by the the Structural Observer.
- A final observation report must be submitted which shows that all observed Safety (LADBS) will not accept the structural work without this final observation report and the correction of specific deficiencies noted during normal building inspection.
- of Building and Safety Building Inspector. When there is a need to replace the Structural Observer of record, the
- owner shall: a. notify the building inspector in writing before the next inspection by the Structural Observer" form IN/Form.08 (Part 2)
- b. call an additional preconstruction meeting, and observation reports
- architect of record.
- noted deficiencies without consideration of their source.
- all changes to the approved plans and specifications.

Notify the engineer at least two business days prior to requested observation.

12. Observations to be performed by	
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- deputy inspection during placement. Slab-on grade: 2500 psi Footings: 2500psi Walls:3000psi Grade beams: 4000psi Piles:3000psi
- All concrete work shall conform to the latest edition of ACI 318. should use 3/4" or larger aggregate as the top aggregate size. max water-to-cement ratio to be .50.
- maximum slump shall be 5 inches
- C330 (expanded shale type) for lightweight concrete.
- may be substituted with up to 15% "type F" fly-ash.
- 7. Water used in concrete mix to be clean and potable. Concrete mix design shall be prepared by a licensed laboratory and bear
- at least 3 days prior to pour. roughened to a 1/4" amplitude u.n.o.
- 10. Only one type of concrete shall be at the job site at any one time.
- engineer regarding any honeycombs, voids, etc.
- 12. See "Reinforcing Steel" notes for minimum concrete cover.

STRUCTURAL OBSERVATION NOTES	
tion is required for the structural system in accordance n Bulletin No. P/BC 2014-024. Structural Observation is the at the construction site of the elements and connections ystem at significant construction stages, and the e for general conformance to the approved plans and uctural Observation does not waive the responsibility for uired of the building inspector or the deputy inspector.	
ploy a State of California registered civil or structural ed architect to perform the Structural Observation. The ling and Safety (LADBS) requires the use of the engineer /her designee responsible for the structural design who the contractor.	

<u>-Prior to the pouring of foundations, slabs, grade beams</u>: to observe reinforcing, anchor bolts, holdown bolts, reinforcing dowels for

<u>-Prior to placement of pile cages</u>: to observe pile cage reinforcing. <u>-Prior to pouring of concrete/cmu walls</u>: to observe reinforcing, anchor bolts, holdown bolts, embeds, etc. (conc. walls taller than 5' will require <u>-Prior to covering floor/roof wood diaphragms</u>: to observe plywood

Observation Report Form" IN/Form.08 (Part I) 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 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 or architect of record to verify its completion by

deficiencies were resolved and structural system generally conforms with the approved plans and specifications. The Department of Building and

The Structural Observer shall provide the original stamped and signed

submitting completed "Structural Observation Program and Designation of

c. furnish the replacement Structural Observer with a copy of all previous

the new Structural Observer must be designated by the engineer or

The replacement Structural Observer shall approve the correction of the original observed deficiencies unless otherwise approved by plan chec supervision. The policy of the Department shall be to correct any properly

The engineer or architect of record shall develop all changes relating to the structural systems. The building department shall review and approve

Paul Boranian, S5944/C75003

CONCRETE NOTES All concrete shall have a minimum 28 day compressive strength as noted below. All concrete with strengths higher than 2500 psi requires continuous

Concrete mix shall contain 6 sacks minimum of cement per cubic yard. and

Aggregates shall conform to ASTM C33 for normal weight concrete and ASTM 6. Concrete shall use type II/V portland cement conforming to ASTM CI50 and

the seal of a registered California civil or structural engineer. A copy of the mix design shall be sent to the project engineer for review/approval

9. Concrete-to-concrete or conctete-to-masonry joints to be cleaned and

. All concrete shall be mechanically vibrated as it is being placed. Notify

		SHEAR WA	ALL SCHEDUL	E			
Shearwall Type		B	Ĺ		BB		
ASD Allowable Shear Capacity (plf)	340	510	665	870	1020	1330	1740
Material	15/32" Struc. I	15/32" Struc. I	15/32" Struc. 1	15/32" Struc. I	15/32" Struc. I Both Sides	15/32" Struc. I Both Sides	15/32" Struc. I Both Sides
Panel Edge Nailing	10d @ 6"	10d @ 4"	10d @ 3"	10d @ 2"	10d @ 4"	10d @ 3"	10d @ 2"
Sill Plate	2x	2x (3x @ conc.)	2x (3x @ conc.)	2x (3x @ conc.)	3x	3x	3x
5/8" Anchor Bolt Spacing	32"	32"	24"	16*	16*	12"	107
Sill Plate Nailing Spacing (16d common nail x 3 1/2")		l6d @ 4 ″	l6d @ 3"	2-16d @ 4"	Not Permitted	Not Permitted	Not Permitted
Sill Plate SDS (1/ 1* Simpson SDS)	12"	8"	6"	5*	4"	2*	2 1/2"
Sill Plate Lag Bolts, 3/8" Diameter in Lieu of SDS	10"	6"	5"	4.	3"	2 1/2""	2"
Simpson A35 or LTP4 From Top Plate To Blk'g/Rim	l6*	10*	8"	6"	lo" Both Sides	8" Both Sides	8"Both Sides

All panel nailing shall be 10d common nails. Panel edge nailing shall be spaced per schedule and panel field nailing shall be at

not full height, provide full depth 3x blocking at the horizontal panel edge except type "A" walls which may use 2x). Nails shall be staggered into 2 lines into 3x members where spacing is 2° o.c. or less or nail penetration is greater than 15/8. Sill nailing to use 16d common nails x 3 1/2" long spaced per schedule. Sill plate nailing is not permitted where sill plate is larger than 2x or plywood is thicker than 3/4" or in any situation where the nail penetration into the solid blocking/wood member below is

less than | 1/2" (SDS screws or lag bolts shall be used in this situation). Nails shall be centered in the 2x blocking/solid wood member below and where 2 rows of nails are specified shall staggered into two rows 1/2" apart and be centered. Sill SDS screws to be 1/4" Simpson SDS and be spaced per schedule, and have 2 1/2" minimum penetration into 3x minimum blocking or solid wood member below and shall be staggered into 2 rows (1/2" apart) where spacing spacing specified is closer than 6" o.c.

and 3 rows where specified spacing is closer than 3" o.c. Screws shall not be placed closer than 3" from the ends of the blocking or solid wood member or spaced closer than 6" o.c. in a line. Sill Lag Bolts to be 3/8" diameter and be spaced per schedule, and have 3" minimum penetration into 3x minimum blocking or solid

wood member below and shall be staggered into 2 rows (1/2" apart) where spacing spacing specified is closer than 6" o.c. and 3 rows where specified spacing is closer than 3" o.c. Screws shall not be placed closer than 3" from the ends of the blocking or solid wood member or spaced closer than 6" o.c. in a line.

TJI blocking is not permitted. Solid sawn lumber ripped to the appropriate depth or solid sawn lumber w/ 3/4" max plywood shim at top should be used. All shear walls to run continuous between horizontal diaphragms (roof-floor, floor-floor, floor-foundation). . Nails shall be placed not less than 1/2" from panel edges and 3/8" from edge of connecting members. All wood structural panel

joint and sill plate nailing to be staggered at all panel edges. REINFORCING STEEL

- All reinforcing steel shall comply with ASTM A615 grade 60. Weldable reinforcing Shall be ASTM A706 grade 60.
- Reinforcing steel shall comply with the latest version of ACI 318 and CRSI.
- All reinforcing in concrete should be lapped per the lap splice schedule. All reinforcing in masonry shall be lapped 72 bar diameters minimum u.n.o.
- All bars shall be bent cold and shall not be field bent unless shown on the drawings or permitted by the engineer. Minimum concrete protection for reinforcement shall be as follows:

	10000110
Concrete cast against earth and permanently exposed to s	soil:3"
Concrete permanently exposed to soil or weather:	
#6 thru #18 bars	2"
約 and smaller bars	1.5 <i>"</i>
Concrete not exposed to soil or weather:	
#II and smallerbars	
Ald and loo was been	

#14 and larger bars... Concrete beams and columns:...

CONCRETE NOTES, CONT'D "Structural Observation Report Form" to the City of Los Angeles Department | 12. Pipes and conduits embedded in concrete shall be subject to the approval of the structural engineer. Where deputy inspection is required, concrete cylinders shall be prepared and tested per ASTM C 172 and ASTM C 39.

A minimum of 2 sets shall be taken of structural concrete elements (each set consisting of 3 cylinders, the first to be tested at 7 days, the second to be tested at 28 days, and the third being a hold). Non-shrink grout shall have a minimum 28 day compressive strength of 5000 psi

Addmixtures if used shall be approved by the project engineer and shall be per manufacturer recommendations and in proportions shown in a Los Angeles Research Report or the California Department of Transportation

E LADBS DEPARTMENT OF BUILDING & SAFETY	Code P	egional Uniform Program (uctural Observation	LOS ANGELES REGIONAL
	AND DESIGNA	RVATION PROGRAM ATION OF THE L OBSERVER	
PROJECT ADDRESS: 6032 S Vermon	t Ave	PERMIT APPLICATION	No:
Description of Work: <u>New Duplex Addi</u>	tion		
Owner: Mike Miller A	rchitect:	Engineer: PAUL B	ORANIAN
		OBSERVATION ems are required)	
Firm or Individuals to be responsible Name: Paul Boranian	e for the Structur Phone: (818)		tion No: 75003
FOUNDATION	WALL	FRAME	DIAPHRAGM
X Footing, Stem Walls, Piers	Concrete	Steel Moment Frame	Concrete
Mat Foundation	Masonry	Steel Braced Frame	Steel Dec
Caisson, Piles, Grade Beams	X Wood	Concrete Moment Frame	X Wood
Stepping Retaining Found, Hillside Special Anchors	Others:	Masonry Wall Frame	Others:
Others: Structural Slab		Others:	
DECLARATION BY OWNER the owner of the project, declare th tructural Observer.	nat the above liste	d firm or individual is hired by me	to be the
ignature	Date	-	
DECLARATION BY ARCHITECT s different from the Architect or Eng	FOR ENGINEE gineer of Record)	R OR RECORD (required if the	e Structural Obser
I, the Architect or Engineer of record designated by me to be responsible for			or individual is

	CONNECTION	
Ι	Joist to sill plate	3-8 sta
2	Bridging to joist	2-8 sta
3 4	I * x 6* subfloor or less to each joist	2 -
5	Wider than I" x 6" subfloor to each joist 2" subfloor to joist or girder	2 -
6	Sole plate to joist or blocking	16d ga 3"-
	Sole plate to joist or blocking at braced wall panel	3"- 4 e
7	Top plate to stud	3-1 sta
8	Stud to sole plate	4-8
		sta 2-1
9	Double top plates	sta 16d
0	Double top plates	ga 16d
Ū		ga 8-1
	Double top plates	sta
	Blocking between joist or rafters to top plate	3-8 ga
2	Rim joist to top plate	8d sta
3	Top plates, laps and intersections	2-1 sta
4	Continuous header, two places	16d
5	Ceiling joists to plate	3-8 sta
16 17	Continuous header to stud Ceiling joists, laps over partitions (see Section	16d 3-1
8	2308.10.4.1, Table 2308.14.1) Ceiling joists to parallel rafters (see Section	0.13 3-1
	2308.10.4.1, Table 2308.14.1)	nai
9	Rafter to plate (see Section 2308.10.1, Table 2308.14.1)	3-8 sta
20	I" diagonal brace to each stud and plate	2-8 sta
21 22	I" x 8" sheathing to each bearing Wider than I'x8" shtg to each bearing	3 - 3 -
23	Built-up corner studs	16d
	N NJ N N	nai
24	Built-up girder and beam	20d ga
		2-2 sta
25 26	2°planks Collar tie to rafter	16d 3-1
		sta
27	Jack rafter to hip	3-1 sta
		2-1 sta
28	Roof rafter to 2-by ridge beam	2-1 sta
		2-1
29	Joist to band joist	sta 3-1
30	Ledger strip	sta 3-1
		sta
31	Wood structural panels and particleboard ^b Subfloor, roof and wall sheathing (to framing)	1/2
		19/
		7/8
	Single Floor (combination subfloor-	/ 3/4
	underlayment to framing)	7/8
32	Panel siding (to framing)	1/2
33	Fiberboard sheathing	5/8 1/2
		25/
24		1.4
34	Interior paneling	1/4 3/8
	SI: linch = 25.4mm. mmon or box nails are permitted to be used except w	iher
Na	ils spaced at 6 inches on center at edges, 12 inches o	at iı
S	nore. For nailing of wood structural panel and partic heathing are permitted to be common, box or casing	
Co	mmon or deformed shank (6d - 2" x 0,113"; 8d - 2 1/2" x 0 mmon (6d - 2" x 0,113"; 8d - 2 1/2" x 0,131"; 10d - 3" x 0,148").
Fa	formed shank (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d - 3 Isteners spaced 3 inches on center at exterior edge:	s ar
Co	pacing shall be 6 inches on center on the edges and rrosion-resistant roofing nails with 7/16 inch diamet	er I
Cor	heathing and I 3/4 inch length for 25/32 inch sheathin, rrosion-resistant staples with normal 7/16 inch crow	n ai
Ca	nches (20 inches if strength axis in the long directio sing (1/2" x 0.080") or finish (1/2" x 0.072") nails spac	ed 6
	nel supports at 21 inches. Casing or finish nails spac r roof sheathing applications, 8d nails (2 //2" x 0.113")	
	aples shall have a minimum crown width of 7/16 inch. r roof sheathing applications, fasteners spaced 4 in	che
Fa	steners spaced 4 inches on center at edges, 8 inches dges, 6 inches at intermediate supports for roof she	s at
	steners spaced 4 inches on center at edges, 8 inches	
A	ll masonry shall have a minimum compressiv	e s
	ll masonry work shall conform to the latest pecification for Masonry Structures(TMS 602).	
С	oncrete masonry units shall be type N (norma	al ۱
	ccordance with the prism test method or unit	
	lortar shall conform to ASTM C270 Type S, 1800 rout shall be course grout and conform to AS	
	ggregates for masonry grout shall conform	
W	later used in masonry mix to be clean and pot	tab
	rout mix design shall be prepared by a licens	
	opy of the mix design shall be sent to the pr f grout pour is stopped for more than I hour,	
A	ll masonry shall be laid in a running bond pa	tte
A	ll grout shall be mechanically vibrated as it	tis
	laximum grout lift height without cleanouts is f all cells if complying with all code require	
е	ngineer to request approval for high lift gro	
-	einforcing shall be adequately held in place	

diameters maximum and reinforcing shall not be closer than 1/2" clear to masonry unit.

14. All head and bed joints to be filled solid with mortar and be 3/8" thick and the initial bed joint shall not be less than 1/4" or greater than 3/4". 15. Special inspection is required for all masonry u.n.o.

Dommon (2 1/2" x 0.131", 2-3" x 0.131" nails, 2-3" 14 gage toenail. 0common (2 1/2" x 0.131") face nail. 12 common (2 1/2" x 0.131") face nail. 12 common (3 1/2" x 0.152") face nail.		FASTENING ^{8,m}	LOCATION
mmon (2 1/2* x 0.13*, 2-3* x 0.13* nails, 2-3* 14 gage toenail each end signmon (2 1/2* x 0.13*, 10.1* nails, at 0* c, 3* 14 face nail toenail each end signmon (2 1/2* x 0.13*, 10.1* nails, at 0* c, 3* 14 face nail toenail each end signmon (2 1/2* x 0.13*, 10.1* nails, at 0* c, 4* 2* blind and face nail toenail signes at 10* c, 5* x 0.13* nails, 3-3* 14 gage braced wall panels toenail common (3 1/2* x 0.13*, 14* 3* 0.13* nails, 3-3* 14 gage toenail toenail signes at 10* c, 5* x 0.13* nails, 3-3* 14 gage toenail toenail signes at 10* c, 5* x 0.13* nails, 3-3* 14 gage toenail toenail signes at 10* c, 5* x 0.13* nails, 12* 3* 14 gage toenail toenail signes at 10* c, 5* x 0.13* nails, 12* 3* 14 gage toenail toenail signes at 10* c, 5* x 0.13* nails, 13* 3* 14 gage toenail toenail signes at 10* c, 7* x 0.13* nails, 3* 3* 14 gage toenail toenail signes at 10* c, 7* x 0.13* nails, 3* 3* 14 gage toenail toenail signes at 10* c, 7* x 0.13* nails, 3* 3* 14 gage toenail toenail signes at 10* c, 6* x 0.13* nails, 3* 3* 14 gage toenail		0.131"), 3-3" x 0.131" nails, 3-3" 14 gage	toenail
iss iss iss iss common 12 1/2* x (1,11)** face hall common 12 1/2* x (1,12**) iss of hall common 12 1/2* x (1,12**) blind and face hall staples at 12**, c, 3* x (1,13*** halls, 3 + 3*** iss of hall staples per 15**, c, 3* x (1,13**** blind and face hall staples per 15**, c, 3** x (1,13**** blind and face hall staples per 15**, c, 3** x (1,13**** braced wall panels sis c-280 box halls (#8% situl braced wall panels sis common (1 1/2* x (1,12**** sis sis common (1 1/2* x (1,12**** sis sis common (1 1/2* x (1,12*** sis sis coc.	.es common (21/2" x	0.131"), 2-3" x 0.131" nails, 2-3" 14 gage	
Common 13 1/2* x (131*) Face nail 2* X 115*3 at 16*0.c., 3* x (131* nails, 3 + 3* 16*0.c., 4*3* bytical race nail 15*2 x 115*3 at 16*0.c., 3* x (131* nails, 3 + 3* 16*0.c., 4*3* braced wall, panels sinomon 13 1/2* x (131* 14*5* x (131* nails, 3 + 3* 16*0.c., 4*3* braced wall, panels sinomon 13 1/2* x (131* 14*3* x (131* nails, 3 + 3* 16*0.c., 4*3* braced wall, panels sinomon 13 1/2* x (131* 14*3* x (131* nails, 3 + 3* 16*0.c., 3* 14 face nail 72 x 113*1 at 15*0.c., 3* x (131* nails, 3 + 3* 16*0.c., 3* 14 face nail 72 x 113*1 at 15*0.c., 3* x (131* nails, 3 + 3* 16*0.c., 3* 14 face nail 72 x 113*1 at 15*0.c., 3* x (131* nails, 12*3* 11* 8*3* forenail common 13 1/2* x (112* 1.2* 3* x (131* nails, 3 - 3* 14 face nail staple at 1*0.c., face nail face nail common 13 1/2* x (112* 1.3* 3* x (131* nails, 3 - 3* 14 gage sin non 13 1/2* x (112* 1.3* 3* x (131* nails, 3 - 3* 14 gage sin non 13 1/2* x (112* 1.3* 3* x (131* nails, 3 - 3* 14 gage sin non 13 1/2* x (112* 1.3* 3* 0.131* nails, 3 - 3* 14 gage sin non 13 1/2* x (112* 11* nails, 1-3* 11* gage face nail common 12 1/2* x (112* 3* 0.131* nails, 3 - 3* 14 gage	,es		
Common (3 / 2* x 0.13* nail: a 41 b*0.c., 3* 14 bLind and face nail. /2* x 0.15* nail: 1*0.c., 4* 3* x 0.131* nail: s at 1*0.c., 4* 3* typic s 1 (2* c., 4* 3* x 0.131* nail: s, 3* 14 gage /3 / 2* x 0.15* nail: 0.c., 4* 3* x 0.131* nail: s, 3* 14 gage end nail. /s. end nail. typic solution /s. end nail. toenail. /s. end nail. toenail. /s. (1/2* x 0.13* 1* 0.13)* nail: s 1* 3* 14 gage end nail. /s. (1/2* x 0.13* 1* 0.13)* nail: s 1* 3* 14 gage end nail. /s. (1/2* x 0.13* 1* 0.13)* nail: s 1* 3* 14 gage end nail. /s. (1/2* x 0.13* 1* 16* 0.c., 3* x 0.131* nail: s 1* 0.c., 3* 14 gage toenail. /s. (1/2* x 0.13* 1* 16* 0.c., 3* x 0.131* nail: s, 3* 3* 14 gage toenail. /s. (1/2* x 0.13* 1* 0.13* nail: s, 3* 3* 14 gage toenail. /s. face nail. toenail. /s. (1/2* x 0.13* 1* 0.13* nail: s, 3* 3* 14 gage toenail. /s. face nail. toenail. toenail. /s. (1/2* x 0.13* 1* 0.13* nail: s, 3* 14 gage toenail. /s. (1/2* x 0.13*			
27 × 0.137 at 15°.c., 3° × 0.131° nails at 8°.c., 3° 14 typicat 10°.c., 4° × 0.131° nails, 3° 14 gage 13 127 × 0.157° at 12° × 0.131° nails, 3° 14 gage end nail e staples per 15°.c., 4° × 0.131° nails, 3° 14 gage end nail estaples per 15°.c., 4° × 0.131° nails, 3° 14 gage end nail estaples per 15°.c., 4° × 0.131° nails, 3° 3° 14 gage end nail estaples per 15°.c., 4° × 0.131° nails, 3° 3° 14 gage end nail estaples per 15°.c., 3° × 0.131° nails, 3° 3° 14 gage end nail common 12 12° × 0.137° nail at 12° c., 3° 14 tace nail 12° × 0.157° at 15° c., 3° × 0.131° nail, at 8° c., 3° 14 tace nail common 12 12° × 0.137° nail at 12° c., 3° 14 tage tappe at 1° c., 3° × 0.131° nail, at 5° c., 3° 14 gage tace nail tappe at 1° c., 3° × 0.131° nail, at 5° c., 3° 14 gage tace nail tappe at 1° c., 12° × 0.131° nail, at 5° c., 3° 14 gage tace nail tappe at 1° c., 12° × 0.131° nail, at 5° c., 14 gage tace nail tappe at 1° c., 12° × 0.131° nail, at 5° c., 14 gage tace nail tappe at 1° c., 12° × 0.131° nail, at 5° c., 14 gage tace nail tappe at 1° c., 12° × 0.131° nail, at 2° c., 3° 14 gage tace nail tappe at 1° c., 13° × 0.131° nails, 3° 14 gage tace nail			
13/12*XLU57*G12*C-G-3*XLU31*naiLs, 3-3*L4gage braced walL panels sommon 13 1/2*XLU57*G12*XLU31*naiLs, 3-3*L4gage end nail ss. common 13 1/2*XLU57*G12*XLU31*naiLs, 3-3*L4 toenail common 13 1/2*XLU57*G12*XUU31*naiLs, 5-3*L4gage tace nail stople at 1*O.C., 3*XLU31*naiLs, 5-3*L4gage toenail stople at 1*O.C., 1*XLU31*naiLs, 5-3*L4gage toenail stople at 1*O.C. toenail toenail <tr< td=""><td>1/2" x 0.135") at 1</td><td>6"o.c., 3" x 0.131" nails at 8"o.c., 3" 14</td><td></td></tr<>	1/2" x 0.135") at 1	6"o.c., 3" x 0.131" nails at 8"o.c., 3" 14	
e staples per 16°0.c. braced wall panels panen 13 1/2° x 0.13° x 0.13° mails, 3-3° 14 gage tend nail. end nail. end nail. end nail. end nail. tenail.	staples at 12"0	.C.	typical face nail
common (3 1/2* x 0.13 ² , 1.3-3* x 0.13 ¹ mails, 3-3 ⁻¹ 14 gage systems end nail common (3 1/2* x 0.13 ¹ , 1.4-3* x 0.13 ¹ mails, 3-3 ⁻¹ 14 gage systems end nail common (3 1/2* x 0.13 ¹ , 1.4-3* x 0.13 ¹ mail, s 3-3 ⁻¹ 14 gage systems end nail common (3 1/2* x 0.13 ¹ , 1.4-3* x 0.13 ¹ mail, s 1 ² o.c., 3 ⁻¹ 14 staple at 1 ¹⁰ o.c., 3 ⁻¹ x 0.13 ¹ mail, at 1 ²⁰ o.c., 3 ⁻¹ 14 staple at 1 ¹⁰ o.c., 3 ⁻¹ x 0.13 ¹ mail, s 1 ²⁰ o.c., 3 ⁻¹ 14 staple at 1 ¹⁰ o.c., 3 ⁻¹ x 0.13 ¹ mail, s 1 ²⁰ o.c., 3 ⁻¹ 14 staple at 1 ¹⁰ o.c., 3 ⁻¹ x 0.13 ¹ mail, s 1 ²⁰ o.c., 3 ⁻¹ 14 staple s common (3 1/2* x 0.15 ¹ , 1.2-3* x 0.13 ¹ mail, s 1 ²⁰ o.c., 3 ⁻¹ 14 staple s face nail common (3 1/2* x 0.15 ¹ , 3 ⁻³ x 0.13 ¹ mail, s 3 ⁻³ 14 gage s face nail mmon (3 1/2* x 0.15 ¹ , 3 ⁻³ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail mmon (3 1/2* x 0.15 ¹ , 1 ²⁰ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail mmon (3 1/2* x 0.15 ¹ , 1 ²⁰ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail mmon (3 1/2* x 0.15 ¹ , 1 ²⁰ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail common (1 1/2* x 0.15 ¹ , 1 ²⁰ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail common (1 1/2* x 0.15 ¹ , 1 ²⁰ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail common (1 1/2* x 0.15 ¹ , 1 ²⁰ x 0.13 ¹ mail, s ⁻³ 1 ¹ gage s face nail common (1 1/2* x 0.15 ¹ , 4 ⁻³ x 0.13 ¹ mail, s ⁻³ 1 ¹ ga	e staples per	16 0.C. 4-5 X 0.131 Haits at 10 0.C. 4-5	braced wall panels
Sommon 12 L/2* x 0.131*1, 4-3* x 0.131*nails, 3-3*14 gage toenail common 13 L/2* x 0.131*1, 4-3* x 0.131*nails, 3-3*14 gage end nail c7 x 0.157*1 d1 0* c., 3* x 0.131*nail, at 1* c., 3*14 face nail c7 x 0.157*1 d1 0* c., 3* x 0.131*nail, at 1* c., 3*14 face nail c7 x 0.157*1 d1 0* c., 3* x 0.131*nail, at 1* c., 3*14 face nail campon 13 L/2* x 0.157*1, 12-3* x 0.131*nail, at 1* c., 3*14 face nail campon 13 L/2* x 0.137*1, 3-3* x 0.131*nail, at 6 c., 3*14 gage face nail staple at 6* c., 3* x 0.131*nail, at 6 c., 3*14 gage face nail face nail campon 13 L/2* x 0.137*1, 5-3* x 0.131*nail, s, 3-3*14 gage face nail staple at 8* c., 102*1 main, 7able 2308, 0.0.1, 4-3*x face nail face nail common 13 L/2* x 0.137*1 face nail face nail face nail staple at 8* c., 102*1 main, 7able 2308, 0.0.1, 4-3*x face nail face nail common 12 L/2* x 0.137*1 face nail face nail face nail staple at 8* c. face nail face nail face nail face nail common 13 </td <td>common (31/2"></td> <td>(0.162"), 3-3" x 0.131" nails, 3-3" 14 gage</td> <td></td>	common (31/2">	(0.162"), 3-3" x 0.131" nails, 3-3" 14 gage	
s.g 2 add box nails: (#3: sill) Toenail. common (3) //2" x (162") 3-3" x (1.3)" nail s 3 - 3" / / gage signed 10" o.c. face nail. /?" x (157") at 12" o.c., 3" x (1.3)" nail s 12" o.c., 3" / / staple at 10" o.c. face nail. /?" x (157") at 14" o.c., 3" x (1.3)" nail s 12-3", // gage sis face nail. staple at 10" o.c., 3" x (1.3)" nail s 12-3", // gage sis face nail. staple at 10" o.c., 3" x (1.3)" nail s 12-3", // gage sis face nail. staple at 10" o.c., 3" x (1.3)" nail s 16 o.c., 3" / // gage sis face nail. mmon 13 //2" x (1.57", 3-3" x (1.3)" nail s, 5-3" / // gage sis face nail. mmon 13 //2" x (1.57", 3-3" x (1.3)" nail s, 5-3" / // gage sis face nail. mmon 13 //2" x (1.57", 15-3" x (1.3)" nail s, 5-3" / // gage sis face nail. mmon 13 //2" x (1.57", 15-3" x (1.3)" nail s, 3-3" / // gage sis face nail. ommon 12 //2" x (1.57", 15-3" x (1.3)" nail s, 3-3" / // gage sis face nail. ommon 13 //2" x (1.57", 11" mail s, 3-3" / // gage sis face nail. ommon 12 //2" x (1.57", 12" o.c., 3" x (1.3)" nail s, 3-3" / // gage sis face nail. ommon 12 //2" x (1.57", 12" o.c., 3" x (1.3)" nails, 3-3" / // gage sis face nail. ommon 12 //2" x (1.57", 3-3" x (1.3)" nails, 4-3" / // gage sis face nail. <	es 		end nail
Line Laboration Light and			toenail
72* x 0.135* at 24* o.c., 3* x 0.131* nail. at 8* o.c., 3* 14 face nail. 12* x 0.135* at 24* o.c., 4* x 0.131* nail. at 12* o.c., 3* 14 typical face nail. 12* x 0.135* at 21* o.c., 3* x 0.131* nail. at 12* o.c., 3* 14 typical face nail. 12* x 0.135* at 21* o.c., 3* x 0.131* nail. s, 3 - 3* 14 toenail. 12* x 0.131* at 6* o.c., 3* x 0.131* nail. s, 3 - 3* 14 toenail. 12* x 0.131* at 6* o.c., 3* x 0.131* nail. s, 3 - 3* 14 toenail. 13* x 0.162*1, 3 - 3* x 0.131* nail. s, 3 - 3* 14 toenail. 14* at 6* o.c., 3* x 0.131* nail. s, 3 - 3* 14 toenail. 14* at 6* o.c., 3* x 0.131* nail. s, 3 - 3* 14 toenail. 15* o.c. toenail. toenail. 16* o.c. along edge toenail. toenail. 16* o.c.			
staple at 18° o.C. face nail /2*x 0.135° at 16° o.C., 3*x 0.131° nail. at 12° o.C., 3° 14 typical. face nail. /2*x 0.131° at 16° o.C., 3*x 0.131° nail.s 12° o.C., 3° 14 tap splice staple at 12° o.C., 10° o.C., 3° x 0.131° nail.s 3° o.° 14 toenail. (2*x 0.131° at 6° o.C., 3° x 0.131° nail.s, 3° o.° 14 toenail. toenail. (2*x 0.131° at 6° o.C., 3° x 0.131° nail.s, 3° o.° 14 gage toenail. toenail. (ace nail.) 16° o.C. along edge toenail. toenail. mmon 13 //2*x 0.162°1 toenail. toenail. toenail. ommon 12 //2*x 0.162°1 tole? toenail. toenail. sommon 12 //2*x 0.162°1 tole? toenail. toenail. common 13 //2*x 0.162°1 tole? toenail. toenail. common 13 //2*x 0.162°1 tole? toenail. toenail. common 14 x 0.182°1 37° 0.0.31° nails	es		end nail
72* X 0.153* at 16* o.c., 3* X 0.131* nail. at 12* o.c., 3* 14 typical face nail tstaple at 12* o.c., tag splice ommon (3) 1/2* X 0.152*), 12* 3* X 0.131* nails, 3 * 3* 14 teenail tstaples teenail common (3) 1/2* X 0.152*), 3* X 0.131* nails, 3* 3* 14 teenail tstaples face nail common (3) 1/2* X 0.162*), 3* X 0.131* nails, 3* 3* 14 teenail tstaples face nail common (3) 1/2* X 0.162*) 16* o.c., 3* X 0.131* nails, 3* 3* 14 staples teenail common (3) 1/2* X 0.162*) 105* o.c., along edge ommon (1) 1/2* X 0.162*) teenail tace nail teenail tace nail teenail tace nail teenail tace nail teenail common (1) 1/2* X 0.162*) minimum, Table 2308.10.4.1, 4* 3* X0.131* tace nail teenail common (2) 1/2* X 0.131*, 3* 3* X 0.131* nails, 3* 3* 14 gage face nail tace nail teenail teenail common (2) 1/2* X 0.131*, 2* 3* X 0.131* nails, 3* 3* 14 gage face nail tace nail teenail teenail common (3) 1/2* X 0.162*, 3* X			face nail
staple at 12° o.C. typical face nail common 13 1/2° x 0.132°, 12.3° x 0.131° nails, 3 - 3° 14 toenail s toenail (2' x 0.131°) at 6° o.C., 3° x 0.131° nails, 3 - 3° 14 toenail (2' x 0.131°) at 6° o.C., 3° x 0.131° nails, 5 - 3° 14 gage toenail (2' x 0.131°) at 6° o.C., 3° x 0.131° nails, 5 - 3° 14 gage toenail (2' x 0.131°) at 6° o.C., 3° x 0.131° nails, 5 - 3° 14 gage toenail (3' 1/2° x 0.162°) toenail toenail (ace nail	<u>stapte at olici</u> 1/2" x 0 135") at 1	<u>.</u> 6" ос. 3" х 0 131" nail. at 12" ос. 3" 14	
Lap splice common (2 1/2* x 0.131*, 3 - 3* x 0.131* nails, 3 - 3* 14 toenail (2* x 0.131*) a 6* o.c., 3* x 0.131* nails, 3 - 3* 14 gage toenail (ace nail) tace nail			typical face nail
Dommon (2 1/2" x 0.131", 3 - 3" x 0.131" nails, 3 - 3" 14 toenail staples toenail toenail common 13 1/2" x 0.162", 3 - 3" x 0.131" nails, 3 - 3" 14 gage tace nail toenail s face nail toenail toenail s toenail toenail toenail s face nail tace nail tace nail s	common (31/2">		
staples toenail (2* x 0.131*) at 6* o.c., 3* x 0.131* nail, at 6 o.c., 3* 14 gage toenail common (3 1/2* x 0.162*), 3-3* x 0.131* nails, 3-3* 14 gage tace nail iss for o.c., along edge nommon (3 1/2* x 0.162*) toenail common (3 1/2* x 0.161*) tace nail common (2 1/2* x 0.131*) tace nail tace nail toenail pomon (1 1/2* x 0.161*) tace nail tace nail tace nail common (1 1/2* x 0.162*) 3* x 0.131* nails, 3-3* 14 gage tace nail tace nail common (1 x x 0.182*) 3* x 0.131* nails, 4-3* 14 gage tace nail toenail <t< td=""><td></td><td></td><td>lap splice</td></t<>			lap splice
		U.131 1, 3 - 3 X U.131 Halts, 3 - 3 14	toenail
eat 6*0.c. toenail common (3 1/2* x 0,162*), 3-3* x 0,131* nails, 3-3* 14 gage face nail mmon (3 1/2* x 0,162*) 16*0.c. along edge pommon (2 1/2* x 0,131*, 5-3* x 0,131* nails, 5-3* 14 gage teenail is teenail face nail is teenail teenail is teenail face nail is teenail teenail is teenail face nail is face nail face na	/2" x 0.131") at 6'	'o.c., 3" x 0.131" nail at 6 o.c., 3" 14 gage	
ss face nail mmon (3 1/2* x 0.181*, 5-3* x 0.131* nails, 5-3* 14 gage toenail iss toenail mmon (3 1/2* x 0.182*) face nail iss toenail iss face nail <	e at 6" o.c.		toenail
Common (3 1/2" × 0.162") 16" o.c. along edge common (3 1/2" × 0.162") 16" o.c. along edge toenail toenail common (3 1/2" × 0.162") toenail dis, 4-3" 14 ga, staples face nail common (2 1/2" × 0.131", 3-3" × 0.131" nails, 3-3" 14 gage face nail common (2 1/2" × 0.131") face nail mmon (2 1/2" × 0.131") face nail toenail toenail common (2 1/2" × 0.162") staples tage staples face nail common (2 1/2" × 0.162") taech back mmon (3 1/2" × 0.162") taech back common (3 1/2" × 0.162") taech back common (3 1/2" × 0.162") taech back common (3 1/2" × 0.162") taech back comm		(U.162*1, 3+3* x U.131* nails, 3+3* 14 gage	face nail
ommon (2 1/2* x 0.131*), 5-3* x 0.131* nails, 5-3* 14 gage toenail iss toenail toenail common (3 1/2* x 0.162*) tace nail face nail innon (3 1/2* x 0.162*) tace nail face nail innon (3 1/2* x 0.131*) rails, 4-3* x 0.131* face nail innon (3 1/2* x 0.131*) rails, 3-3* 14 gage toenail iss toenail face nail common (2 1/2* x 0.131*) face nail face nail common (2 1/2* x 0.131*) face nail face nail iss face nail face nail face nail common (2 1/2* x 0.131*) face nail face nail face nail iss face nail face nail face nail face nail iss face nail face nail face nail face nail iss face nail face nail face nail face nail iss face nail face nail face nail face nail iss face nail face nail face nail face nail common (3 1/		.162*)	
Tomon (3 1/2" x 0.162") toenail common (3 1/2" x 0.162") face nail face nail face nail common (2 1/2" x 0.131", 3-3" x 0.131" nails, 3-3" 14 gage face nail face nail face nail common (2 1/2" x 0.131") face nail face nail face nail common (2 1/2" x 0.162") 3" x 0.131" nails, 3-3" 14 gage face nail face nail <	ommon (2 /2" x		
common (3) 1/2" x 0.162") minimum, Table 2308.10.4.1, 4-3"x face nail idis, 4-3" 14 ga, staples face nail face nail idimon (3) 1/2" x 0.162") minimum, Table 2308.10.4.1, 4-3"x.0.131" face nail idimon (2) x 0.162") minimum, Table 2308.10.4.1, 4-3"x.0.131" face nail idimon (2) x 0.131", 3-3" x 0.131" nails, 3-3" 14 gage face nail iss face nail face nail common (2) x 0.131", 2 - 3" x 0.131" nails, 3-3" 14 gage face nail iss face nail face nail common (2) x 0.131" nails, 3-3" 14 gage face nail iss face nail face	es mmon (2 (27 × 0	100-1	
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mediate supports except 6 inches at supports where spans are 48 inches or d diaphragms and shear walls, refer to Section 2305. Nails for wall		No. 16 gage staple ⁱ 4d ^j	
Id - 3" x 0.148").		No. 16 gage staple ⁱ 4d ^j	
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πτο τοι ποποτιασται αναμμπσατισπο head and 1/2 inch length for 1/2 inch

and 11/8 inch length for 1/2 inch sheathing and 11/2 inch length for 25/32 inch sheathing. Panel supports at 16 f the panel.unless otherwise marked) 5 inches on panel edges, 12 inches at intermediate supports. 6 inches on panel edges, 12 inches at intermediate supports. e the minimum required for wood structural panels.

es on center at edges,8inches at intermediate supports. t intermediate supports for subfloor and wall sheathing and 3" on center at

intermediate supports.

MASONRY

strength f'm of 1500psiu.n.o.(assembly strength)

dition of the Building Code Requirements for Masonry Structures (TMS-402) and the

weight) units conforming to ASTM C90 with a minimum unit strength of 1900 psi, with testing in trength method.

i minimum compressive strength. (masonry cements or plastic cements are not permitted) M C476, 2000 psi minimum compressive strength, and grout slump shall be 8-11 inches. ASTM C404

d laboratory and bear the seal of a registered California civil or structural engineer. A iect engineer for review/approval at least 3 days prior to pour. ovide a construction joint by stopping the grout I I/2" below the top of block.

ern and shall be solid grouted u.n.o.

s being placed. i'-4". High lift grout heights in excess of 5'-4" are permitted with cleanouts at the bottom ents, and approved by the deputy inspector, engineer, and the building inspector (notify the

13. Reinforcing shall be adequately held in place by wire ties or other suitable method prior to pouring of grout at intervals of 200 bar

