18-114385-000-REV 01-CO

18-190279-REV-01-MT

CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

6

PERMIT REVISION

2020-11-16

JONES

JONES ARCHITECTURE

120 NW 9TH AVENUE, SUITE 210
PORTLAND, OR 97209
T 503 477 9165
jonesarc.com

CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

REGISTERED ARCHITECT
ALAN W. JONES
PORTLAND, OREGON
STATE OF OREGON

City of Portland

Reviewed for
Code Compliance

Date: 06/04/21

Permit #:
18-114385-REV-01-CO

PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

6	ASI #003	01/29/21

COVER

001

SUBMITTED 2/26/21

ABBREVIATIONS

AFF	Above Finish Floor
ACOUST	Acoustical
ACP	Acoustical Ceiling Panel
ACT	Acoustical Ceiling Tile
ADJ	Adjust, Adjustable
AL	Aluminum
AB	Anchor Bolt
APPROX	Approximately
ARCH	Architectural
ASPH	Asphalt
B	Base
BM	Beam
BITUM	Bituminous
BLK	Block
BLKG	Blocking
BD	Board
BOT./BTM	Bottom
BC	Bottom of Curb
BW	Bottom of Wall
BLDG	Building
CPT	Carpet
CAB	Cabinet
CI	Cast Iron
CIP	Cast In Place
CLG	Ceiling
CEM	Cement
CTR	Center
CT	Ceramic Tile
CLR	Clear
CLO	Closet
COL	Column
CONC	Concrete
CMU	Conc. Masonry Units
COND	Condition
CONSTR	Construction
CONT	Continuous
CONTR	Contractor
CJ	Control Joint
CORR	Corridor
CNTR	Counter
CTSK	Countersink
DET	Detail
DIA	Diameter
DIM	Dimension
DR	Door
DBL	Double
DN	Down
DS	Downspout
DWR	Drawer
DWG	Drawing
DF	Drinking Fountain
EA	Each
ELEC	Electrical
EL	Elevation
ELEV	Elevator
EMER	Emergency
ENCL	Enclosure
EQ	Equal
EQPT	Equipment
EXIST	Existing
EXP	Expansion
EJ	Expansion Joint
EXPO	Exposed
EXT	Exterior
F	Fabric
FOC	Face of Concrete
FOF	Face of Finish
FOM	Face of Masonry
FOS	Face of Studs
F.FIN	Factory Finish
FIN	Finish
FF	Finish Floor
FFE	Finish Floor Elevation
FL	Floor
FD	Floor Drain
FT	Foot or Feet
FTG	Footing
FDN	Foundation
FDN	Foundation
FS	Full Size, Scale
FOIC	Furnished by Owner, Installed by Contractor
FURR	Furring
FUT	Future
G	Grout
GALV	Galvanized
GI	Galvanized Iron
GA	Gauge
GLU-LAM	Glu-Laminated
GL	Glass
GB	Grab Bar
GR	Grade
GND	Ground
GWB	Gypsum Wallboard
GWB/WR	Water Resistant
GYP	Gypsum
HDWE	Hardware
HT	Height
HC	Hollow Core
HM	Hollow Metal
HORIZ	Horizontal
HB	Hose Bibb
HR	Hour
IN	Inch(es)
ID	Inside Diameter (Dim.)
INSUL	Insulation
INT	Interior
IRG	Impact Resistant GWB
JAN	Janitor
JT	Joint
KD	Knock Down
LAV	Lavatory
LT	Light
M	Mortar
MFR	Manufacturer
MO	Masonry Opening
MAX	Maximum
MECH	Mechanical
MDO	Medium Density Overlay
MEMB	Membrane
MTL	Metal
MIN	Minimum
MISC	Miscellaneous
MTD	Mounted
MUL	Mullion
NOM	Nominal
NIC	Not in Contract
NTS	Not to Scale
NO	Number
OC	On Center
OPNG	Opening
OPP	Opposite
OH	Opposite Hand
OD	Outside Diameter (Dim.)
P	Paint
PTD	Paper Towel Dispenser
PART BD	Particle Board
PERF	Perforated
PLAS	Plaster
PL	Plate or Plastic Laminate
PLWD, PLY	Plywood
PT	Point
PP	Power Pole
PRCST	Precast Concrete
PREFIN	Prefinished
PT	Pressure Treated
P/L	Property Line
R or RAD	Radius
REFR	Refrigerator
REF	Reference
REINF	Reinforced
REQ	Requirements
RES	Resilient
R	Riser(s)
RD	Roof Drain
RM	Room
RO	Rough Opening
SECT	Section
SHG	Sheathing
SHT	Sheet
SH	Shelf
SHWR	Shower
SIM	Similar
SOG	Slab on Grade
SC	Solid Core
SQ	Square
SF	Square Feet
S STL	Stainless Steel
STD	Standard
STL	Steel
STOR	Storage
STRUC	Structural
SV	Sheet Vinyl
SYM	Symmetrical
SYS	System
T	Tile
THK	Thick
T&G	Tongue and Groove
T.O.	Top of
TYP	Typical
UNF	Unfinished
UNO	Unless Noted Otherwise
VG	Vertical Grain
VCT	Vinyl Composition Tile
WC	Water Closet
WP	Waterproof
WT	Weight
W	West
WDW	Window
W/	With
W/O	Without
WD	Wood
WWF	Woven Wire Fabric
WR	Water Resistant

GENERAL NOTES

1. THESE CONSTRUCTION DOCUMENTS SET MINIMUM STANDARDS. THE DRAWINGS SHALL GOVERN OVER GENERAL NOTES TO THE EXTENT SHOWN. DO NOT SCALE THE DRAWINGS, NOTED DIMENSIONS GOVERN. ALL DIMENSIONS ARE TO FACE OF SHEATHING OR ROUGH OPENING UNLESS OTHERWISE NOTED.

2. ALL WORK PERFORMED, INCLUDING MATERIALS FURNISHED, WORKMANSHIP, MEANS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPLICABLE AND LATEST REQUIREMENTS OF THE NATIONAL, STATE AND LOCAL BUILDING CODES, ALL LOCAL AND STATE HANDICAP ACCESS AND USE REGULATIONS, ANY FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS AND LANDLORD'S RULES AND REGULATIONS, AND GENERAL CONDITIONS OF APPLICABLE OWNER/CONTRACTOR AGREEMENT.

3. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE OWNER, LANDLORD AND THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE GOVERNING AGENCIES. NAME JONES ARCHITECTURE AND THEIR AGENTS AS ADDITIONAL INSURED.

4. DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAIL FOR CONSTRUCTION. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS. FOR CONDITIONS NOT ILLUSTRATED, NOTIFY ARCHITECT FOR CLARIFICATION AND/OR SIMILAR DETAIL.

5. CONTRACTOR SHALL EMPLOY ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK. ALL WORK SHALL BE PERFORMED BY DULY LICENSED TRADESMEN AND AS REQUIRED BY STATE AND LOCAL GOVERNMENTS FOR EACH APPLICABLE TRADE, (PLUMBING, ELECTRICAL, ETC), WHO SHALL ARRANGE FOR AND OBTAIN REQUIRED INSPECTIONS AND SIGN OFFS.

6. THESE DRAWINGS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTOR, SUBCONTRACTORS, VENDORS AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN BIDDING AND PERFORMING THEIR WORK AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS ON THE DRAWINGS.

7. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WORK OF ALL TRADES AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHERS, AND SHALL VERIFY THAT ANY WORK RELATING TO THEM WHICH MUST BE PROVIDED BY OTHERS, HAS BEEN COMPLETED AND IS ADEQUATE PRIOR TO COMMENCING THEIR WORK.

8. CONTRACTOR SHALL PROVIDE STRUCTURAL BACKING/BLOCKING FOR ALL WALL MOUNTED FIXTURES, FINISHES AND EQUIPMENT, AND FOR ALL HANGING FIXTURES, BLINDS, ETC.

9. CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS.

10. CONTRACTOR SHALL AT ALL TIMES DURING THE COURSE OF THE CONTRACT KEEP THE ADJOINING PREMISES, INCLUDING STREETS AND OTHER AREAS ASSIGNED TO, OR USED BY THE CONTRACTOR, FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS OR THEIR WORK.

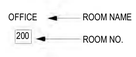
11. CONTRACTOR SHALL ASSIST WITH DELIVERY AND STORAGE OF OWNER SUPPLIED ITEMS, AND DISPOSE OF ANY RESULTING TRASH.

12. CONTRACTOR SHALL VERIFY WITH OWNER AND IMPLEMENT ALL LANDLORD CONSTRUCTION AND DESIGN CRITERIA, SHOWN ON THIS SET OF DRAWINGS OR NOT SHOWN.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF TEMPORARY SHORING, BRACING, OR OTHERWISE PROTECTING ANY PORTION OF THE EXISTING STRUCTURE AND UTILITIES FROM DAMAGE DURING CONSTRUCTION. THE ENGINEER IS SPECIFYING THE FINISHED CONDITION ONLY. WITHOUT ASSUMING KNOWLEDGE NOR RESPONSIBILITY FOR HOW THE CONTRACTOR WILL ACHIEVE THIS RESULT.

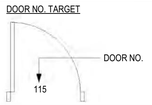
SYMBOL LEGEND

ROOM NAME & NO. TARGET

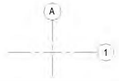


NORTH ARROW

DOOR NO. TARGET

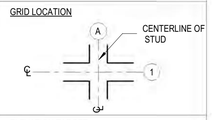


STRUCTURAL GRID



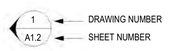
WINDOW NO. TARGET

GRID LOCATION



PARTITION TYPE

ELEVATION TARGET



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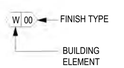
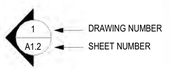
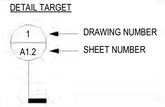


SECTION TARGET



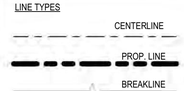
CEILING HEIGHT TARGET

DETAIL TARGET



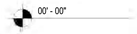
SPOT ELEVATION

LINE TYPES



DRAWING REVISION

VERTICAL ELEVATION



PROJECT TEAM

OWNER / DEVELOPER

Urban Living Property Management
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STRUCTURAL ENGINEER

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6969 SW Hampton St
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CIVIL ENGINEER

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MEP ENGINEERING AND ENERGY ANALYSIS

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DRAWING INDEX

DRAWING INDEX CON'T

JONES

JONES ARCHITECTURE

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7 ASI #003 REV #01 02/18/21

DRAWING INDEX, GENERAL NOTES

G001

SUBMITTED 2/26/21

BUILDING FIRE DETECTION & SUPPRESSION

PROVIDED: Y OR N	TYPE / CLASS	REQUIRED OR OPTIONAL	AREAS OF COVERAGE
SPRINKLER SYSTEM: Y	TYPE 13	REQUIRED PER 903.2.8	ALL
FIRE ALARM SYSTEM: Y			
STANDPIPE SYSTEM: Y	CLASS 1 PER EXCEPTION 1	REQUIRED PER 905.3.1	
SMOKE DETECTION SYSTEM: Y			
CARBON MONOXIDE DETECTION DETERMINED	NFPA 720	REQUIRED PER 908.7.1.1	

NOTES & PROVISIONS: 1. SPRINKLER SYSTEM USED FOR BUILDING STORY INCREASE PER 504.2
2. CLASS A, 2-A FIRE EXTINGUISHERS TO BE PROVIDED PER PFC 906.1. MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75'. FINAL LOCATIONS TO BE DURING FIRE MARSHAL WALK-THROUGH

BUILDING AREA AND OCCUPANCY BY FLOOR

STORY		AREA (SF)	OCC. TYPE	AREA / OCC. SECTION 1004.1.1	OCC. LOAD** SECTION 1004	STAIRWAY WIDTH SECTION 1005 (.3" PER OCC.)		DOORWAY / OTHER WIDTH SECTION 1005 (.2" PER OCC.)		EXITS SECTION 1015/1021.1		TRAVEL DISTANCE SECTION 1016	
						REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
GROUND STORY		2,623	A-2	15	175	N/A	N/A	35"	64"	2	2	250' MAX	67' MAX
		847	M	30	29	N/A	N/A	5.8"	32"	1	1	250' MAX	36' MAX
		1,161	R-2	200	6	N/A	N/A	1.2"	32"	1	1	250' MAX	44' MAX
		519	S-2	300	1	N/A	N/A	.2"	96"	1	3	400' MAX	92' MAX
	TOTAL AREA (SF)	5,150		TOTAL OCC.	211								
2ND STORY		5,114	R-2	200	31	9.3"	44"	6.2"	32"	2	2	250' MAX	67' MAX
3RD STORY		5,114	R-2	200	31	9.3"	44"	18.4"	36"	2	2	250' MAX	67' MAX
4TH STORY		5,114	R-2	200	31	9.3"	44"	18.6"	36"	2	2	250' MAX	67' MAX
BUILDING	TOTAL AREA (SF)	20,492		TOTAL OCC.	304								

CODE APPEALS

	APPEAL #	DATE	PROPOSED DESIGN	DECISION
1.	15194	6/7/17	INTERLOCKING STAIR SHAFTS	GRANTED PROVIDED FULL HORIZONTAL AND VERTICAL SEPARATION IS PROVIDED
2.	15194	6/7/17	ELIMINATION OF ELEVATOR HOISTWAY VENTS PER 2015 IBC	GRANTED AS PROPOSED
3.	15194 - RECONSIDERATION	1/17/18	OMISSION OF RADON CONTROL MEASURES	GRANTED AS PROPOSED
4.	18113	7/3/18	CURTAIN WALL/FLOOR INTERSECTION BICYCLE PARKING IN LOBBY	GRANTED AS PROPOSED
5.	24605 ITEM 1.	2/10/21	DOOR TO BIKE ROOM FROM EXIT PASSAGEWAY	GRANTED AS PROPOSED
6.	24651	3/4/21	OMISSION OF ONE REQUIRED MEANS OF ROOF ACCESS DUE TO INTERLOCKING STAIR CONFIGURATION, LOCATION OF ROOF HATCH AND COMPLEXITY OF STRUCTURAL REQUIREMENTS	GRANTED PROVIDED SIGNAGE IS PROVIDED AT BOTH STAIRS INDENTIFYING ROOF ACCESS.

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DEFERRED SUBMITTALS & SEPARATE TRADE PERMITS

THE FOLLOWING SYSTEMS ARE SUBJECT TO DEFERRED SUBMITTALS IN ACCORDANCE WITH IBC 107:

1. FIRE SPRINKLER SYSTEM
2. FIRE ALARM SYSTEM
3. CURTAIN WALL SYSTEM
4. ALUMINUM STOREFRONT SYSTEM
5. MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT ANCHORAGE AND BRACING
6. RAILINGS
7. CONTINUOUS ROD HOLDOWN SYSTEM
8. MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS
9. FIREPROOFING AND INTUMESCENT PAINT

SEPARATE PERMITS TO BE OBTAINED FROM THE FIRE MARSHAL'S OFFICE

THE FOLLOWING ITEMS SHALL BE PERMITTED SEPARATELY BY THE FIRE MARSHAL PRIOR TO INSTALLATION. ANY INSTALLATION DETAILS FOR THE FIRE /LIFE SAFETY SYSTEMS ARE FOR REFERENCE ONLY, WITH FINAL INSTALLATION REQUIREMENTS TO BE DETERMINED DURING SEPARATE FIRE MARSHAL PLAN REVIEW PROCESS.

1. NFPA 13 FIRE SPRINKLER SYSTEM
2. FIRE ALARM SYSTEM
3. FIRE PUMP
4. UNDERGROUND LINES
5. KNOX BOX

NOTE: A PRE-FIRE PROTECTION PLAN IS REQUIRED PER PFC CHAPTER 33. A COPY OF THE PLAN WILL BE MAINTAINED ON SITE AND PRODUCED FOR THE AHJ UPON REQUEST.

SHELL WORK TO BE INCLUDED IN FUTURE TENANT IMPROVEMENT PERMITS

THE FOLLOWING BUILDING SHELL ITEMS SHALL BE DEFERRED TO FUTURE TENANT IMPROVEMENT PERMITS

1.SLAB-ON-GRADE IN 100 AND 101

2. STEM WALL INSULATION IN 100 AND 101

3. SIGNAGE IN 100 TO INDICATE THAT THE SINGLE LOCKABLE DOOR WILL REMAIN UNLOCKED DURING BUSINESS HOURS

4. REQUIRED GUARDS FOR EQUIPMENT LOCATED WITHIN 10' OF A ROOF EDGE

REQUIRED FIRESTOPPING MEETING

THE GENERAL CONTRACTOR SHALL SCHEDULE A FIRESTOPPING MEETING WTIH THE BUILDING INSPECTOR AND ALL SUBCONTRACTORS THAT WILL BE INSTALLING FIRESTOPPING MATERIALS. EACH SUBCONTRACTOR WILL PROVIDE A LIST OF FIRESTOP MATERIALS/ASSEMBLIES WHICH WILL BE USED, THE TYPE OF PENETRATIONS WHERE EACH MATERIAL/ASSEMBLY WILL BE USED; AND THE LISTING AND APPROVAL INFORMATION (IE. UL, ICC OR OTHER APPROVED REPORT/LISTING NUMBERS). THIS INFORMATION MUST BE SUBMITTED TO AND APPROVED BY THE BUILDING INSPECTOR PRIOR TO ANY INSTALLATION.

GROSS BUILDING AREA

LEVEL	AREA
GROUND STORY	6750 SF
2ND STORY	6912 SF
3RD STORY	6912 SF
4TH STORY	6912 SF
	27486 SF

BUILDING CODE SUMMARY

APPLICABLE CODES

-2015 ICC and 2015 NDS for CLT (CROSS-LAMINATED TIMBER CONSTRUCTION)

-2014 OREGON STRUCTURAL SPECIALTY CODE (BASED ON 2012 IBC)

-2016 PORTLAND FIRE CODE (BASED ON 2014 OREGON FIRE CODE)

-2014 OREGON MECHANICAL SPECIALTY CODE (BASED ON 2012 IMC)

-2017 OREGON ELECTRICAL SPECIALTY CODE (BASED ON 2017 NFPA 70 National Electrical Code)

-2017 OREGON PLUMBING SPECIALTY CODE (BASED ON 2015 UPC)

-2014 OREGON ENERGY EFFICIENCY SPECIALTY CODE (BASED ON 2009 IECC)

-PORTLAND ZONING CODE

-2014 OSSC ACCESSIBILITY REFERENCED STANDARD: ICC/ANSI A117.1-2009

ALLOWABLE HEIGHT AND AREA (TABLE 503)

CONSTRUCTION TYPE: VA ALLOWABLE HEIGHT: 50 FT

ALLOWABLE AND PROPOSED BUILDING AREA AND INCREASES (503, 506, 509): N/A

OCCUPANCY GROUP	ALLOWABLE STORIES	ALLOWABLE AREA (SF)	PROPOSED STORIES	PROPOSED AREA (SF)	ALLOWABLE AREA INCLUDING FRONTAGE INCREASE (506.2)
R-2	3	12,000	4*	5,175	N/A
S-2	4	21,000	4	1,074	N/A
S-1	3	14,000	1	104	N/A
A-2 (FUTURE)	2	11,500	1	FUTURE T.I.	N/A
M (FUTURE)	3	14,000	1	FUTURE T.I.	N/A

*SPRINKLERS USED TO INCREASE STORIES (504.2): YES

NON-SEPARATED OCCUPANCIES (SECTION 508.3)

GROUND STORY WILL BE CONSIDERED NON-SEPARATED PER SECTION 508.3

A-2 IS THE MOST RESTRICTIVE OCCUPANCY

ALLOWABLE AREA (A-2)	PROPOSED GROUND STORY AREA
11,500 SF	6,750 SF

SEPARATED OCCUPANCIES (TABLE 508.4)

GROUND STORY WILL BE SEPARATED FROM THE UPPER STORIES PER TABLE 508.4

BUILDING WILL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM

SEPARATION REQUIRED	RATING
A-2 TO R-2	1-HOUR

CONSTRUCTION TYPES (TABLE 601)

LEVEL NO.	TYPE	STRUCTURAL FRAME	BEARING WALLS EXT.	BEARING WALLS INT.	NON-BEARING WALLS & PART. EXT.	NON-BEARING WALLS & PART. INT.	FLOORS	ROOF	SPECIAL PROVISIONS SECTION 510 (IF USED)
1	V-A	1 HR	1 HR	1 HR	0	0	1	1	
2	V-A	1 HR	1 HR	1 HR	0	0	1	1	
3	V-A	1 HR	1 HR	1 HR	0	0	1	1	
4	V-A	1 HR	1 HR	1 HR	0	0	1	1	

EXTERIOR WALL FIRE RATING AND MAX. OPENINGS (TABLE 705.8)

OPENINGS PROTECTED OR UNPROTECTED: UNPROTECTED

BUILDING FACE	CONSTRUCTION TYPE	OCCUPANCY	DIST. TO PROPERTY LINE	FIRE SEPARATION DISTANCE	REQ. FIRE RESISTANCE RATING (TABLE 602)	MAX OPENING % ALLOWED (TABLE 705.8)	OPENING % PROVIDED
NORTH	V-A	R-2	0' - 0"	> 30	0	100%	45%
EAST	V-A	R-2	0' - 0"	> 30	0	100%	50%
SOUTH	V-A	R-2	0' - 0"	10' - 0"	1	45%	41%
WEST	V-A	R-2	0' - 6"	0' - 6"	2 (PER 706.4a)	NP	0%

INTERIOR WALL AND CEILING FINISH FIRE/SMOKE CLASSIFICATION REQUIREMENTS/PROVIDED (TABLE 803.9)

OCCUPANCY	EXIT ENCLOSURES/PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
R-2	C	C	C

VICINITY MAP

PROJECT DESCRIPTION

PROJECT NAME: CENTRAL LOFTS	PROJECT ADDRESS: 8608 N LOMBARD ST. PORTLAND, OR 97203

SUMMARY OF WORK

WORK INCLUDES CONTRUCTION OF A NEW 4-STORY MIXED-USE BUILDING WITHOUT A BASEMENT.
A PORTION OF THE GROUND STORY WILL BE A SHELL SPACE FOR A FUTURE RETAIL OR RESTAURANT TENANT (T.I.S WILL BE UNDER SEPARATE PERMITS). THE REMAINDER OF THE GROUND STORY WILL BE A LOBBY AND BIKE ROOM FOR RESIDENTIAL USE, AND UTILITY SPACES FOR THE BUILDING.
THE 2ND THROUGH 4TH STORIES WILL BE STUDIO AND ONE-BEDROOM RESIDENTAIL APARTMENTS. THERE WILL BE 10 UNITS PER STORY FOR FOR A TOTAL OF 30 UNITS.

THE STRUCTURE CONSISTS OF WOOD FRAMED WALLS, GLULAM COLUMNS AND BEAMS, AND CROSS-LAMINATED TIMBER FLOORS AND ROOF.

SITE WORK IS LIMITED TO REQUIRED IMPROVEMENTS TO PEDESTRIAN CORSSWALKS ON LOMBARD ST AND PHILADELPHIA AVE, AND REPAVING A 10' WORKING ZONE AROUND THE PERIMETER OF THE BUILDING.

ZONING SUMMARY

APPLICABLE CODES: PORTLAND ZONING CODE			
SITE ADDRESS: 8608 N LOMBARD ST, PORTLAND, OR 97203		SITE AREA: 6,750 SF	
TAX LOT NUMBER: R191985		TAX ROLL: JAMES JOHN ADD, BLOCK 39, LOT 4 EXC PT IN ALLEY	
BASE ZONE: CS		OVERLAY(S): d	
PLAN DISTRICT: ST JOHNS			
BASE ZONE REGULATIONS			
MAX FAR: 3:1 (RESIDENTIAL AREA NOT REGULATED BY FAR)	PROPOSED FAR: .5:1		
MAX HEIGHT: 45'	PROPOSED HEIGHT: 44'-6"		
SETBACKS:	FRONT: 0	BACK: 0	
	SIDE: 0	SIDE: 0	
PROPOSED USES: HOUSEHOLD LIVING/MULTI-DWELLING, RETAIL SALES AND SERVICE		ALLOWED: Y	
BASE ZONE MODIFICATIONS / BONUSES			
FAR: NA	MAX HEIGHT: NA		
PARKING & LOADING REGULATIONS:			
DISTANCE FROM TRANSIT STOP: 0 FT	LOADING REQ'D: Y		
VEHICLE PARKING MAX SPACES ALLOWED: N/A	VEHICLE PARKING MIN. # SPACES ALLOWED: 0		
VEHICLE PARKING SPACES PROVIDED: 0	ACCESSIBLE SPACES REQUIRED: 0	PROVIDED: 0	
BIKE PARKING:			
USE	SF	SPACES REQUIRED	SPACES PROVIDED
HOUSEHOLD LIVING/MULTI-DWELLING	30 UNITS	2 SHORT-TERM / 33 LONG-TERM	BIKE FUND / 34 LONG-TERM*
RETAIL SALES AND SERVICE	3,432 SF	2 SHORT-TERM / 2 LONG-TERM	BIKE FUND / 2 LONG-TERM
DESIGN REVIEW REQ'D: TYPE II		CASE FILE #: LU 17-113306 DZ	
DECISION AND CONDITIONS: APPROVED - SEE PLAN SHEETS FOR CONDITIONS OF APPROVAL NOTES MODIFICATIONS: REDUCED SIZE LONG-TERM BIKE PARKING DESIGN EXCEPTION: REDUCED SPACING BETWEEN ORIEL PROJECTIONS ALONG N. LOMBARD STREET. *(12) IN UNITS [(1) EACH IN UNIT 204, 205, 206, 207, 304, 305, 306, 307, 404, 405, 406 AND 407]			

ENERGY CODE SUMMARY

ENVELOPE ENERGY CODE - OEESC

ROOF INSULATION ABOVE DECK	R-20 RIGID	ALUMINUM CURTAIN WALL & STOREFRONT - FIXED	U = 0.45, SHGC = 0.40
ROOF INSULATION CAVITY (VENTED)	N/A	ALUMINUM CURTAINWALL & STOREFRONT - ENTRANCES	U = 0.80, SHGC = 0.40
WALLS WOOD FRAMED	R-21 BATT	ALUMINUM CURTAINWALL & STOREFRONT - ALL OTHER	U = 0.46, SHGC = 0.40
FLOORS WOOD FRAMED	N/A		

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PORTLAND, OREGON
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19	CHECKSHEET REVISIONS	4/22/21

CODE SUMMARY

G002

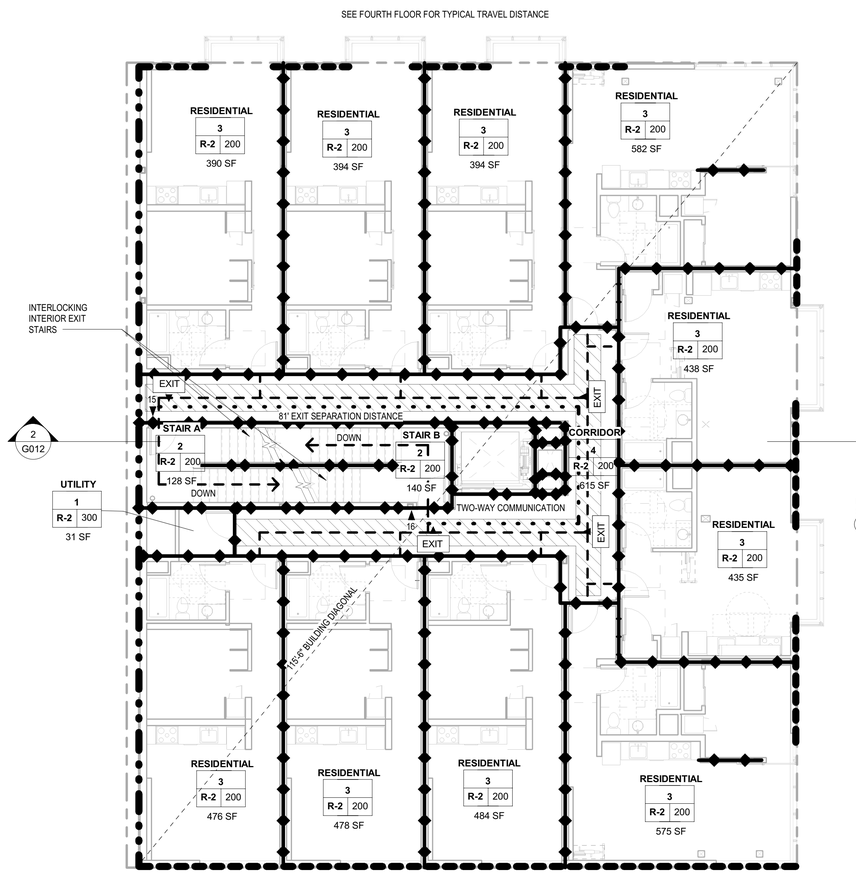
RECEIVED 4/23/21

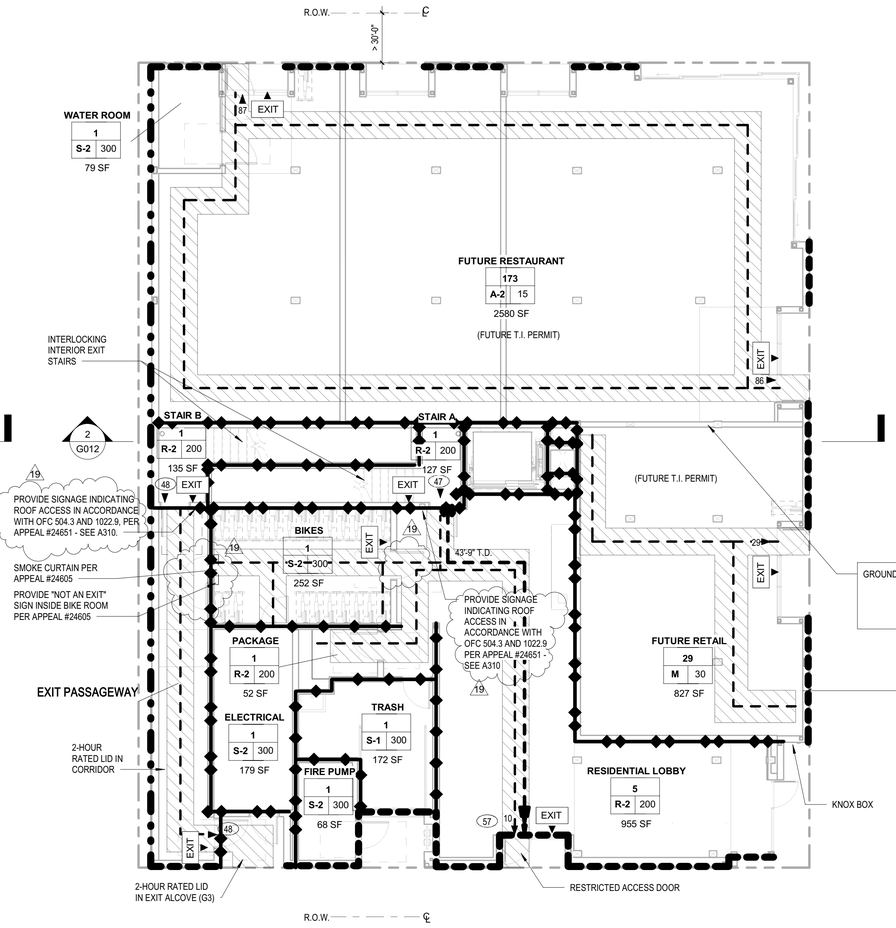
2ND STORY OCCUPANCY SUMMARY

LEVEL	ROOM #	NAME	IBC OCC. TYPE	AREA	OCC. LOAD FACTOR	# OF OCC.
2ND STORY						
2ND STORY	201	1 BD	R-2	390 SF	200	3
2ND STORY	202	1 BD	R-2	394 SF	200	3
2ND STORY	203	1 BD	R-2	394 SF	200	3
2ND STORY	204	1 BD	R-2	582 SF	200	3
2ND STORY	205	STUDIO	R-2	438 SF	200	3
2ND STORY	206	STUDIO TYPE A	R-2	435 SF	200	3
2ND STORY	207	1 BD	R-2	575 SF	200	3
2ND STORY	208	STUDIO	R-2	484 SF	200	3
2ND STORY	209	STUDIO	R-2	478 SF	200	3
2ND STORY	210	STUDIO	R-2	476 SF	200	3
2ND STORY	211	CORRIDOR	R-2	615 SF	200	4
2ND STORY	220	UTILITY	R-2	31 SF	300	1
				5293 SF		35

GROUND STORY OCCUPANCY SUMMARY

LEVEL	ROOM #	NAME	IBC OCC. TYPE	AREA	OCC. LOAD FACTOR	# OF OCC.
GROUND STORY						
GROUND STORY	100	FUTURE RESTAURANT	A-2	2580 SF	15	173
GROUND STORY	101	FUTURE RETAIL	M	827 SF	30	29
GROUND STORY	102	RESIDENTIAL ENTRY	R-2	955 SF	200	5
GROUND STORY	103	BIKES	S-2	252 SF	300	1
GROUND STORY	104	TRASH ROOM	S-1	172 SF	300	1
GROUND STORY	105	FIRE PUMP	S-2	68 SF	300	1
GROUND STORY	106	ELECTRICAL	S-2	179 SF	300	1
GROUND STORY	107	PACKAGE	R-2	52 SF	200	1
GROUND STORY	108	EXIT PASSAGEWAY		219 SF		
GROUND STORY	109	WATER ROOM	S-2	79 SF	300	1
				5381 SF		213





GROUND STORY IS A NON-SEPARATED OCCUPANCY PORTION PER 2014 OSSC SECTION 508.3 MOST RESTRICTIVE IS A2 = ALLOWED FOR TYPE V-A PER STORY = 11,500 SF SPINKLER INCREASE PER 2014 OSSC 506.3 = 200% = 11,500 SF + 13,500 = 25,000 SF (6,750 PROPOSED) - NO OCCUPANCY SEPARATIONS REQUIRED

2 G010 2ND STORY LIFE SAFETY PLAN
1/8" = 1'-0"

1 G010 GROUND STORY LIFE SAFETY PLAN
1/8" = 1'-0"

NORTH

LEGEND:

- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING
- 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE SEPARATION
- # — EXIT WITH LOAD
- (#) — CUMULATIVE OCCUPANT LOAD
- FE — FIRE EXTINGUISHER
- EXIT — EXIT SIGN W/ BATTERY BACKUP
- LIGHTED EXIT PATH (MIN. 44" WIDE) W/MIN 1FC
- PATH OF EGRESS
- 0'-0" TRAVEL DISTANCE (T.D.) / 0'-0" COMMON PATH OF EGRESS TRAVEL (C.P.E.T.) — TRAVEL DISTANCE
- FUNCTION OF SPACE / TOTAL OCCUPANTS / OCCUPANCY GROUP / FLOOR AREA NET & GROSS PROVIDED WHERE PERMITTED / FLOOR AREA PER OCCUPANT — TEXT 50, F-2 20, 1000 SF — ROOM OCCUPANCY TAG

NOTES:

1. PROVIDE 1 FOOT CANDLE OF LIGHT ALONG EGRESS PATH. EMERGENCY EGRESS LIGHTING SHALL EXTEND TO EXTERIOR DOOR LANDINGS. FIELD TESTING IS REQUIRED.
2. SERVICE TO BE BY BACKUP POWER VIA AN INVERTER. SEE ELECTRICAL DRAWINGS.
3. EMERGENCY EGRESS LIGHTING TO BE PROVIDED AT BOTH EGRESS STAIRS ON ALL LEVELS.
4. ALL EXPOSED 1-HOUR HEAVY TIMBER FRAMING TO HAVE CONCEALED CONNECTIONS. SEE STRUCTURAL.
5. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT EACH ELEVATOR LANDING AT EACH FLOOR THAT IS ONE OR MORE STORIES ABOVE GRADE.

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LIFE SAFETY PLANS

G010

RECEIVED 4/23/21

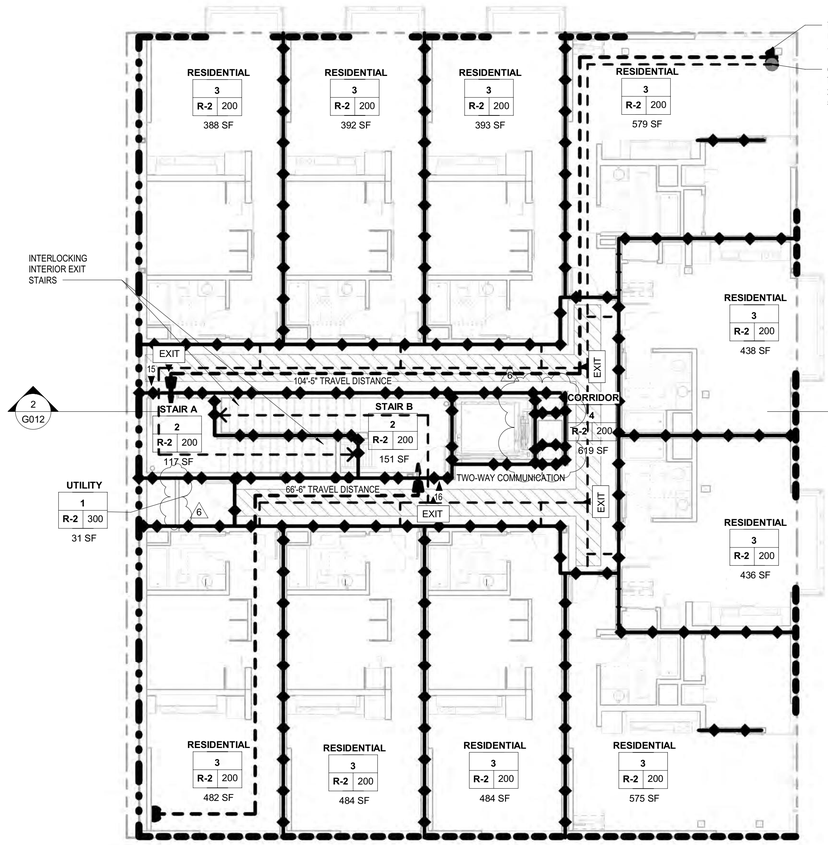
4TH STORY OCCUPANCY SUMMARY

LEVEL	ROOM #	NAME	IBC OCC. TYPE	AREA	OCC. LOAD FACTOR	# OF OCC.
4TH STORY						
4TH STORY	401	1 BD	R-2	388 SF	200	3
4TH STORY	402	1 BD	R-2	392 SF	200	3
4TH STORY	403	1 BD	R-2	393 SF	200	3
4TH STORY	404	1 BD	R-2	579 SF	200	3
4TH STORY	405	STUDIO	R-2	438 SF	200	3
4TH STORY	406	STUDIO	R-2	436 SF	200	3
4TH STORY	407	1 BD	R-2	575 SF	200	3
4TH STORY	408	STUDIO	R-2	484 SF	200	3
4TH STORY	409	STUDIO	R-2	484 SF	200	3
4TH STORY	410	STUDIO	R-2	482 SF	200	3
4TH STORY	411	CORRIDOR	R-2	619 SF	200	4
4TH STORY	420	UTILITY	R-2	31 SF	300	1
				5302 SF		35

3RD STORY OCCUPANCY SUMMARY

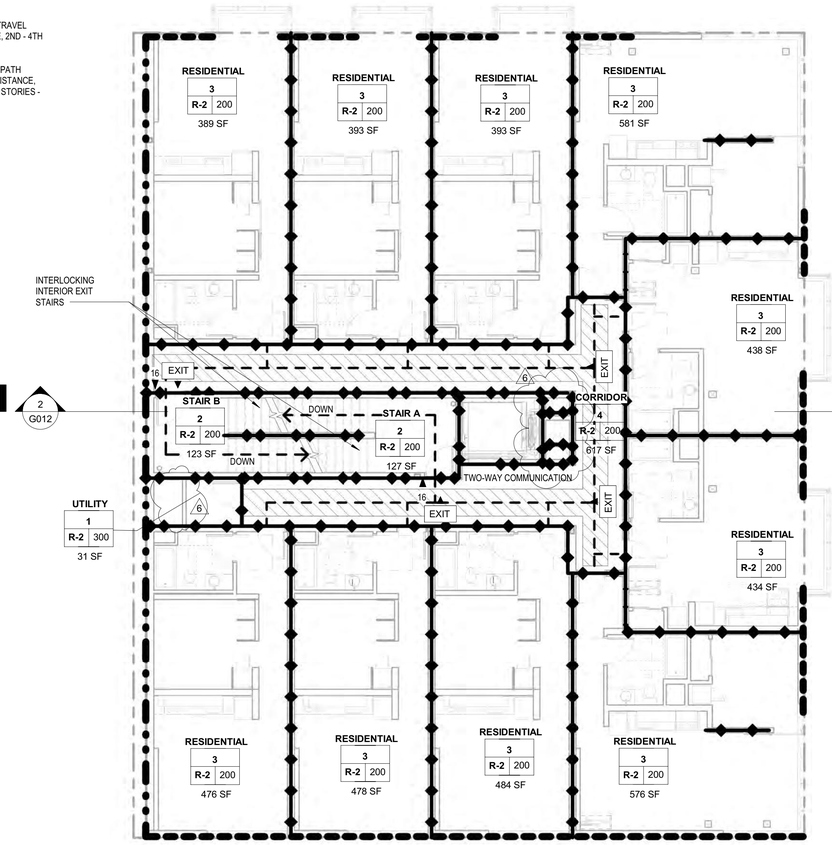
LEVEL	ROOM #	ROOM NAME	IBC OCC. TYPE	AREA	OCC. LOAD FACTOR	# OF OCC.
3RD STORY						
3RD STORY	301	1 BD	R-2	389 SF	200	3
3RD STORY	302	1 BD	R-2	393 SF	200	3
3RD STORY	303	1 BD	R-2	393 SF	200	3
3RD STORY	304	1 BD	R-2	581 SF	200	3
3RD STORY	305	STUDIO	R-2	438 SF	200	3
3RD STORY	306	STUDIO	R-2	434 SF	200	3
3RD STORY	307	1 BD	R-2	576 SF	200	3
3RD STORY	308	STUDIO	R-2	484 SF	200	3
3RD STORY	309	STUDIO	R-2	478 SF	200	3
3RD STORY	310	STUDIO	R-2	476 SF	200	3
3RD STORY	311	CORRIDOR	R-2	617 SF	200	4
3RD STORY	320	UTILITY	R-2	31 SF	300	1
				5292 SF		35

SEE FOURTH FLOOR FOR TYPICAL TRAVEL DISTANCE



2 G011 4TH STORY LIFE SAFETY PLAN
1/8" = 1'-0"

NORTH



1 G011 3RD STORY LIFE SAFETY PLAN
1/8" = 1'-0"

NORTH

LEGEND:

- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING
- 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE SEPARATION
- # ► EXIT WITH LOAD
- (#) CUMULATIVE OCCUPANT LOAD
- FE FIRE EXTINGUISHER
- EXIT ▼ EXIT SIGN W/ BATTERY BACKUP
- LIGHTED EXIT PATH (MIN. 44" WIDE) W/MIN 1FC
- PATH OF EGRESS
- 0'-0" TRAVEL DISTANCE (T.D.) / 0'-0" COMMON PATH OF EGRESS TRAVEL (C.P.E.T.) TRAVEL DISTANCE
- FUNCTION OF SPACE / TOTAL OCCUPANTS / OCCUPANCY GROUP / FLOOR AREA NET & GROSS PROVIDED WHERE PERMITTED / FLOOR AREA PER OCCUPANT — TEXT 50 | F-2 20 | 1000 SF — ROOM OCCUPANCY TAG

NOTES:

1. PROVIDE 1 FOOT CANDLE OF LIGHT ALONG EGRESS PATH. EMERGENCY EGRESS LIGHTING SHALL EXTEND TO EXTERIOR DOOR LANDINGS. FIELD TESTING IS REQUIRED.

2. SERVICE TO BE BY BACKUP POWER VIA AN INVERTER. SEE ELECTRICAL DRAWINGS.

3. EMERGENCY EGRESS LIGHTING TO BE PROVIDED AT BOTH EGRESS STAIRS ON ALL LEVELS.

4. ALL EXPOSED 1-HOUR HEAVY TIMBER FRAMING TO HAVE CONCEALED CONNECTIONS. SEE STRUCTURAL.

5. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT EACH ELEVATOR LANDING AT EACH FLOOR THAT IS ONE OR MORE STORIES ABOVE GRADE.

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LIFE SAFETY PLANS

G011

SUBMITTED 2/26/21

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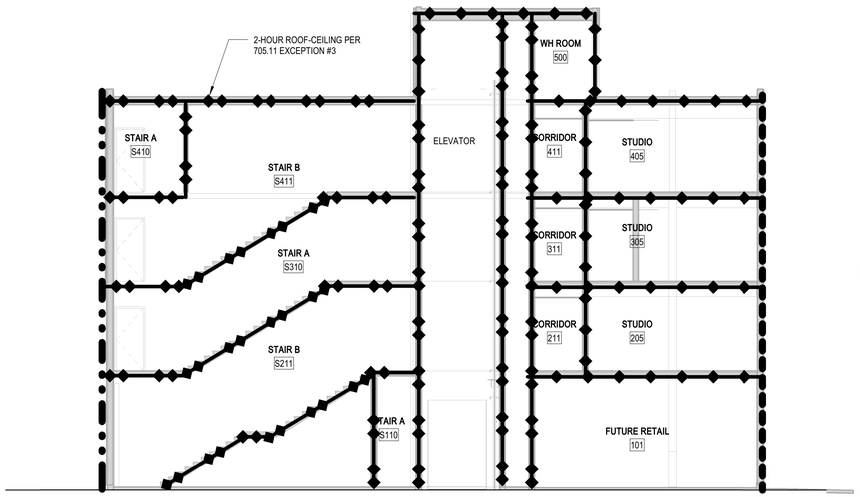
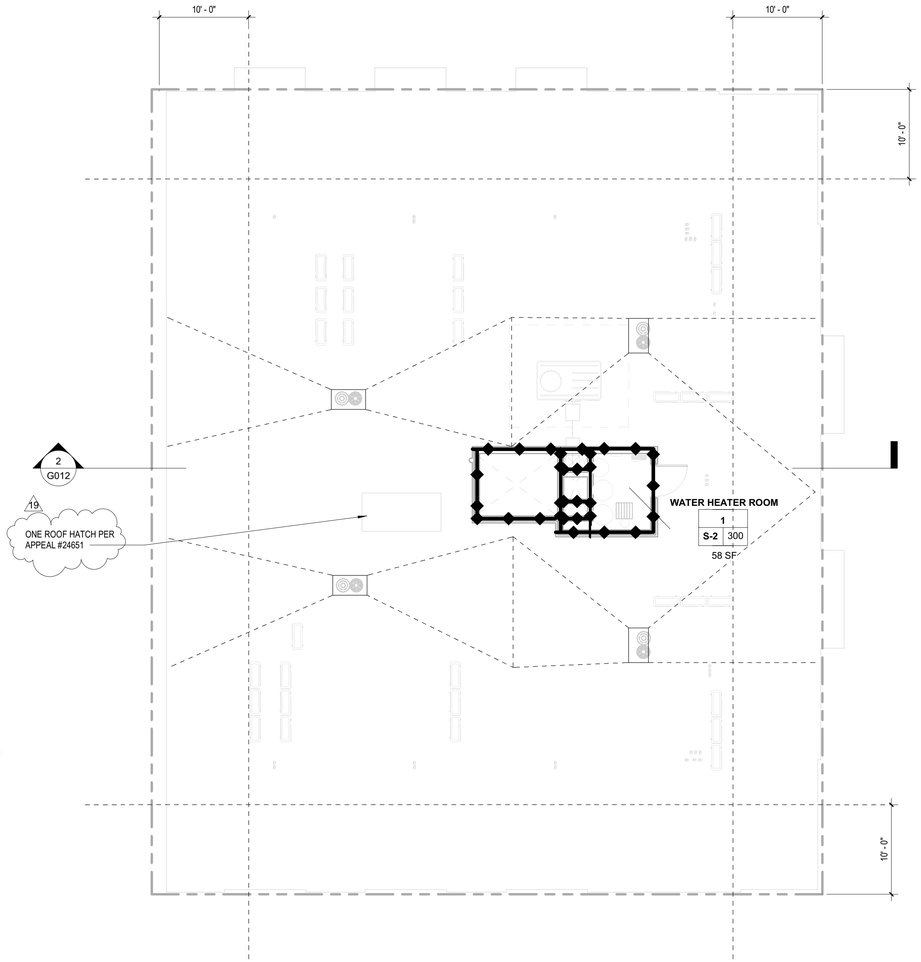


2 EAST WEST LIFE SAFETY SECTION
2/G012 1/8" = 1'-0"



1 ROOF LIFE SAFETY PLAN
1/G012 1/8" = 1'-0"

NORTH

LEGEND:

- 1 HOUR FIRE RESISTANCE RATING
- 2 HOUR FIRE RESISTANCE RATING
- 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE SEPARATION
- # ► EXIT WITH LOAD
- (#) CUMULATIVE OCCUPANT LOAD
- FE FIRE EXTINGUISHER
- EXIT EXIT SIGN W/ BATTERY BACKUP
- LIGHTED EXIT PATH (MIN. 44" WIDE) W/MIN 1FC
- PATH OF EGRESS
- 0'-0" TRAVEL DISTANCE (T.D.)
  0'-0" COMMON PATH OF EGRESS TRAVEL (C.P.E.T.) — TRAVEL DISTANCE
- ROOM OCCUPANCY TAG
  - FUNCTION OF SPACE: TEXT
  - TOTAL OCCUPANTS: 50
  - OCCUPANCY GROUP: F-2
  - FLOOR AREA NET & GROSS PROVIDED WHERE PERMITTED: 1000 SF
  - FLOOR AREA PER OCCUPANT: 20

NOTES:

1. PROVIDE 1 FOOT CANDLE OF LIGHT ALONG EGRESS PATH. EMERGENCY EGRESS LIGHTING SHALL EXTEND TO EXTERIOR DOOR LANDINGS. FIELD TESTING IS REQUIRED.

2. SERVICE TO BE BY BACKUP POWER VIA AN INVERTER. SEE ELECTRICAL DRAWINGS.

3. EMERGENCY EGRESS LIGHTING TO BE PROVIDED AT BOTH EGRESS STAIRS ON ALL LEVELS.

4. ALL EXPOSED 1-HOUR HEAVY TIMBER FRAMING TO HAVE CONCEALED CONNECTIONS. SEE STRUCTURAL.

5. A TWO-WAY COMMUNICATION SYSTEM SHALL BE PROVIDED AT EACH ELEVATOR LANDING AT EACH FLOOR THAT IS ONE OR MORE STORIES ABOVE GRADE.

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LIFE SAFETY PLANS

G012

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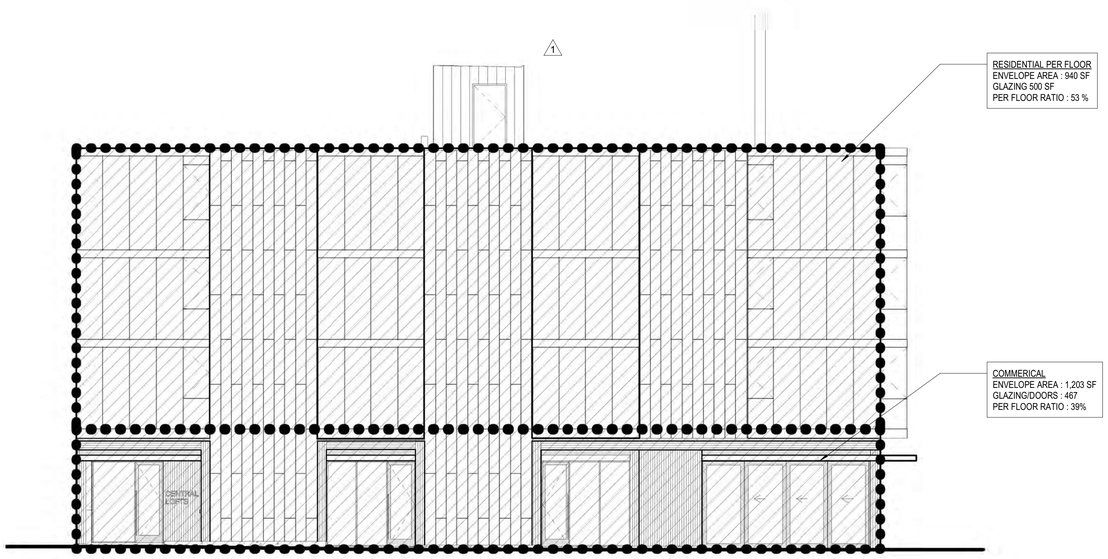
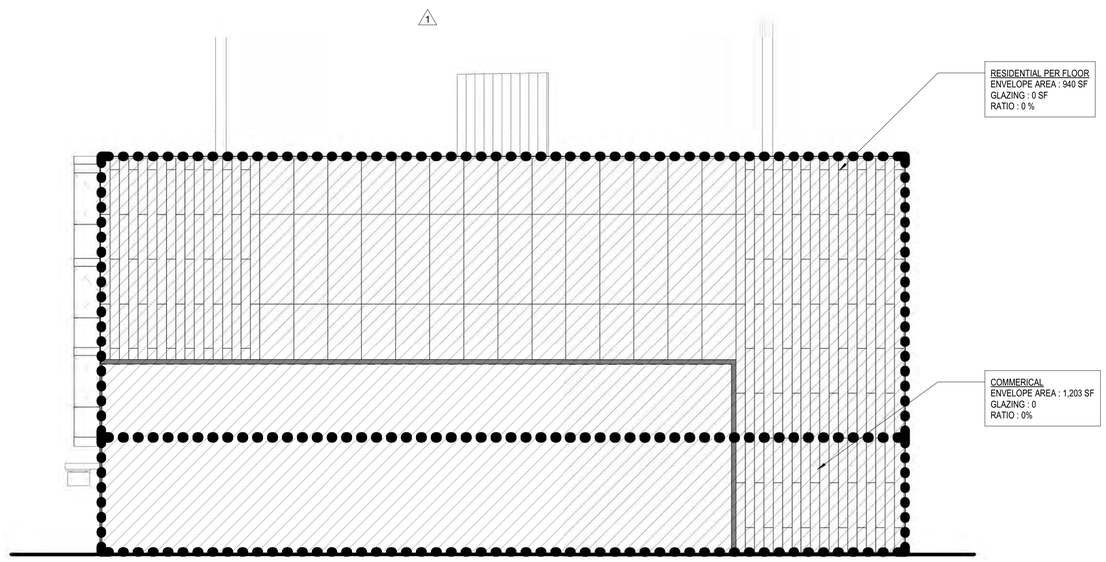
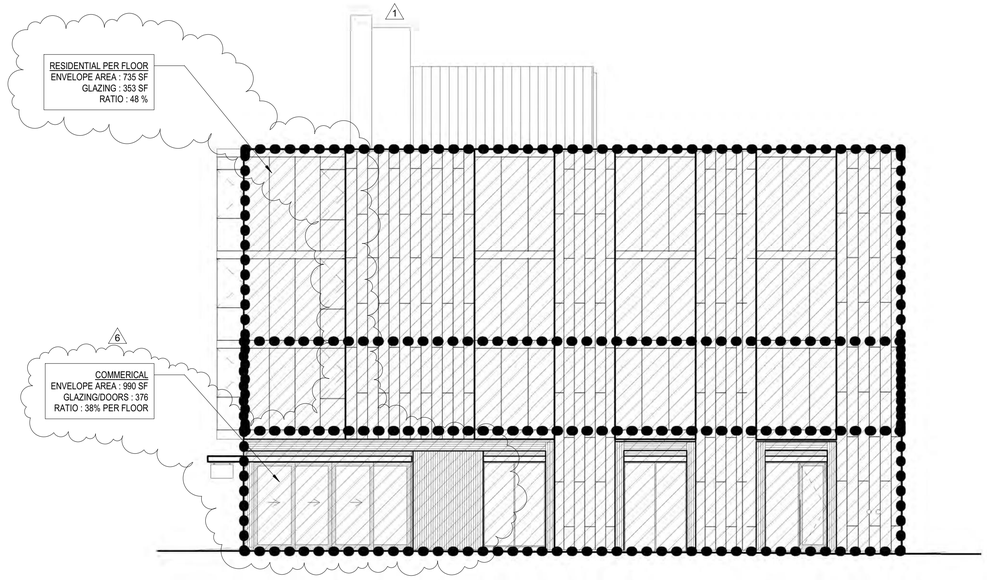


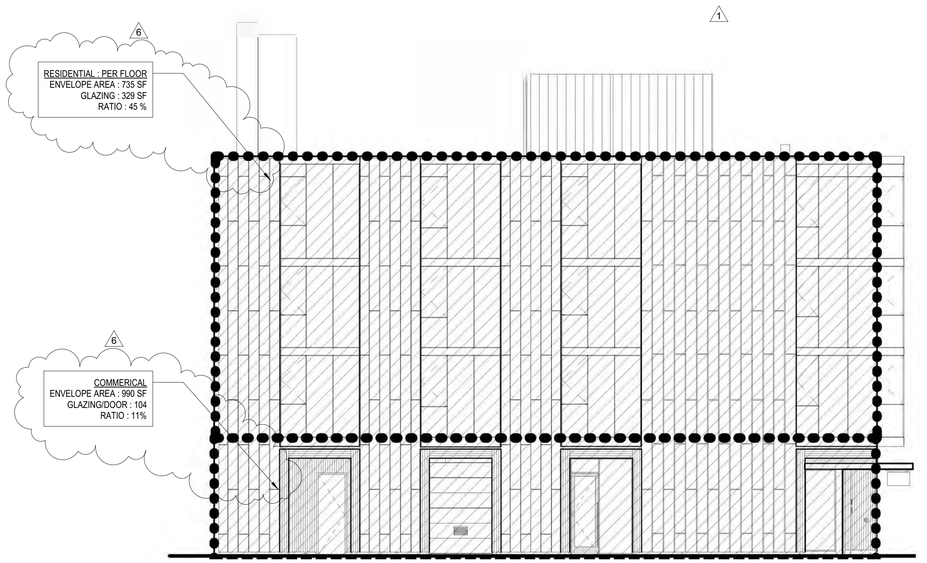
3 G013 EAST ELEVATION, ENVELOPE
1/8" = 1'-0"



4 G013 WEST ELEVATION, ENVELOPE
1/8" = 1'-0"



1 G013 NORTH ELEVATION, ENVELOPE
1/8" = 1'-0"



2 G013 SOUTH ELEVATION, ENVELOPE
1/8" = 1'-0"

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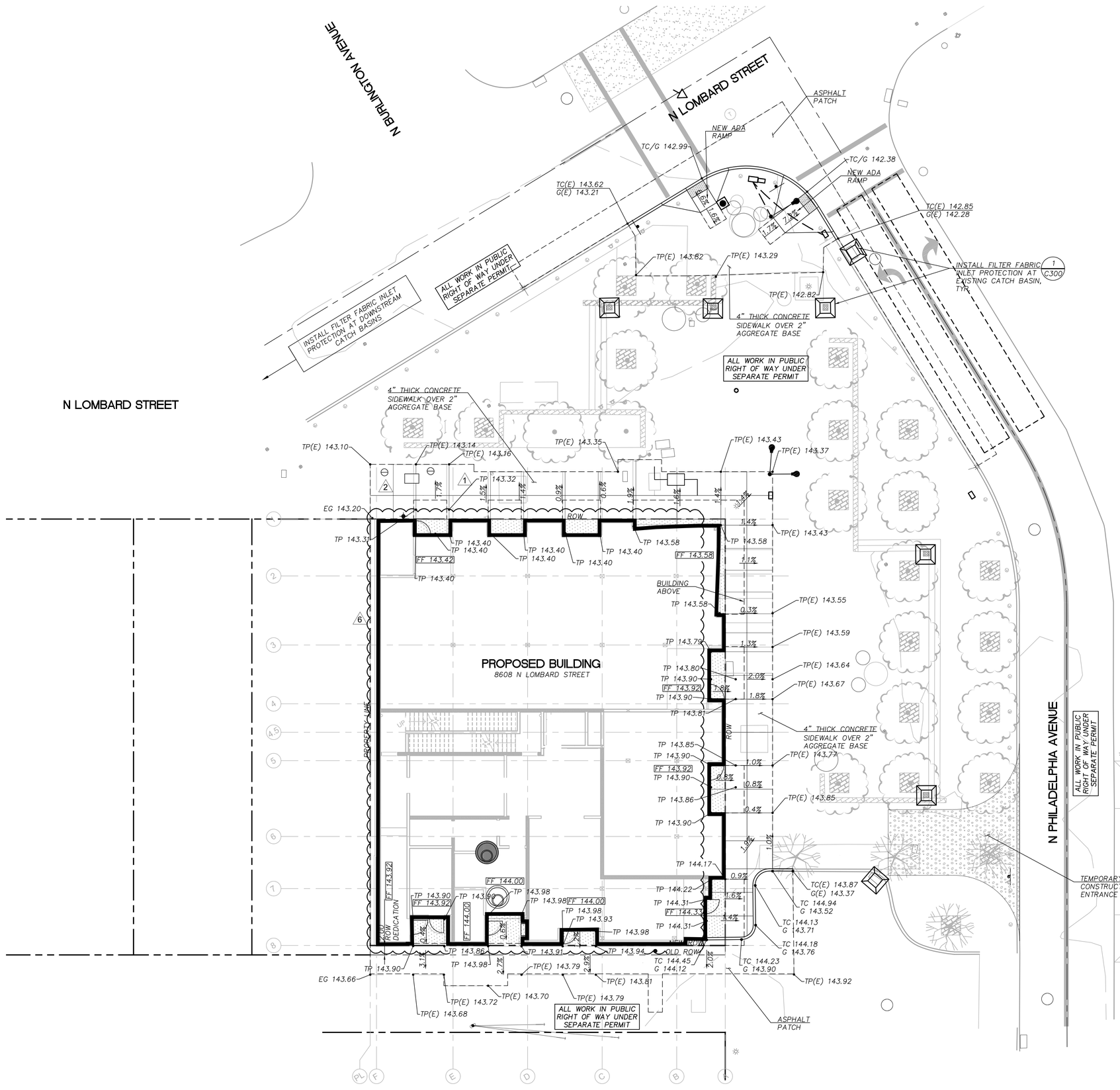
ENVELOPE DIAGRAMS

G013

SUBMITTED 2/26/21



PAVING, GRADING AND EROSION CONTROL PLAN

SCALE: 1"=10'

SHEET NOTES

1. INSTALL SEDIMENT FENCE PER DETAIL 4/C300 ALONG PERIMETER OF SITE PRIOR TO START OF CONSTRUCTION. FENCE SHALL BE PLACE ON PROPERTY SIDE OF ROW LINE.

SHEET LEGEND

TC XXX.XX	GRADE AT TOP OF CURB
TP XXX.XX	GRADE AT TOP OF PAVEMENT
EG XXX.XX	EXISTING GRADE
FF XXX.XX	FINISH FLOOR ELEVATION
FG XXX.XX	FINISH GRADE
(E)	EXISTING
G XXX.XX	GRADE AT GUTTER
X.X%	SLOPE ARROW
- - - - - - -	SAWCUT
-140-	EXISTING CONTOUR
	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE — 3/C300
	CONCRETE SIDEWALK — 6/C300
	FILTER FABRIC INLET PROTECTION — 5/C300

24 HOUR EMERGENCY CONTACT

NAME: ADAM PETERSEN – R&H CONSTRUCTION

PHONE: 503-475-6375

EMAIL: APETERSEN@RHCONST.COM

2

REGISTERED PROFESSIONAL ENGINEER 18684 OREGON JULY 16, 1996 DAVID J. HUMBER

EXPIRES 6-30-21

THIS STAMP APPLIES TO DELTA 6 CHANGES.

6

GRAPHIC SCALE

0 10 20

1 inch = 10 ft.

JONES

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PORTLAND, OR 97203

REGISTERED PROFESSIONAL ENGINEER 8,071 OREGON JULY 12, 2005 MARTHA WILLIAMSON

EXPIRES 6-30-2020

Humber Design Group, Inc.

Portland, OR • 503.946.6690 • hdgpdx.com

City of Portland

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REVISIONS:

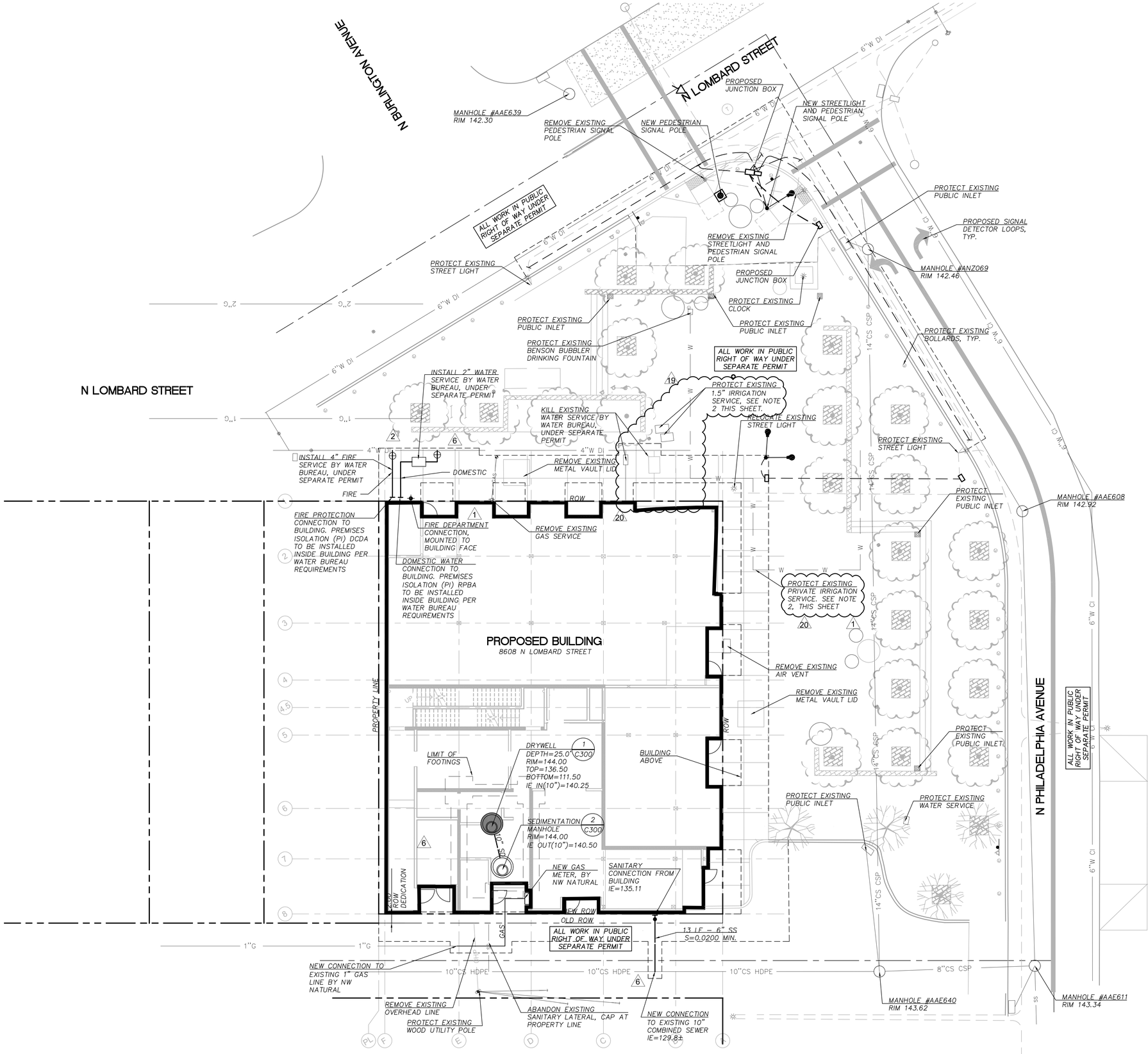
1	ADDENDUM 2	2018-03-30
2	ADDENDUM 3	2018-06-08
6	ASI 003	2021-02-02

PAVING, GRADING AND EC PLAN

Sheet Name

C100

SUBMITTED 2/26/21



UTILITY PLAN

SCALE: 1"=10'

SHEET NOTES

1. ALL DOMESTIC WATER AND FIRE PROTECTION WORK IN THE PUBLIC RIGHT OF WAY BY PORTLAND WATER BUREAU AT OWNER'S EXPENSE. CONTRACTOR TO COORDINATE WORK WITH PORTLAND WATER BUREAU.
2. EXISTING IRRIGATION SERVICE TO BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF UNDOCUMENTED IRRIGATION SERVICE IS ENCOUNTERED DURING CONSTRUCTION OR IF CONSTRUCTION ACTIVITIES WILL DISRUPT THE SERVICE.

20

SHEET LEGEND

	DRYWELL	1 C300
	SEDIMENTATION MANHOLE	2 C300

REGISTERED PROFESSIONAL ENGINEER 18684 OREGON MAY 16, 1998 DAVID J. HUMBER

REGISTERED PROFESSIONAL ENGINEER 16,071 OREGON JULY 12, 2005 MARTHA WILLIAMSON

EXPIRES: 6-30-21

THIS STAMP APPLIES TO DELTA 6, 19 & 20 CHANGES.

6 19 20

WATER KEYNOTES

19

DOMESTIC WATER SERVICE:
BACKFLOW PREVENTION ASSEMBLIES MUST CONFORM TO EPA LEAD–FREE REQUIREMENTS.
REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) REQUIRED
THE ASSEMBLY MUST BE LOCATED AT THE WATER RISER/SUPPLY PIPING, ON THE CENTERLINE OF THE CITY WATER SERVICE AS IT RUNS PERPENDICULAR FROM THE RIGHT OF WAY.
THE RISER/SUPPLY PIPING MUST BE LOCATED 12" FROM THE FOUNDATION WALL TO CENTERLINE OF PIPE. IF THE SERVICE ENTERS FROM BELOW SLAB–ON–GRADE CONSTRUCTION, THE ASSEMBLY WILL NEED TO BE LOCATED 12" AFF MEASURED TO THE LOWEST POINT OF THE ASSEMBLY BODY. SEE WATER BUREAU BACKFLOW ASSEMBLY INSTALLATION REQUIREMENT PAGE 1, ITEM 1 FOR OTHER CRITICAL ASSEMBLY AND RISER REQUIREMENTS.
INSTALLATION OF A PREMISES–ISOLATION BACKFLOW ASSEMBLY WILL CREATE A CLOSED SYSTEM AND MAY RESULT IN PROBLEMS ASSOCIATED WITH THERMAL EXPANSION. INSTALLER RESPONSIBLE FOR MAKING PROVISIONS FOR THERMAL EXPANSION.

FIRE SPRINKLER WATER SERVICE:
IT IS UNLAWFUL TO USE A DEDICATION FIRE SPRINKLER WATER SUPPLY FOR PURPOSED OTHER THAN FIRE SUPPRESSION AND CODE REQUIRED SYSTEM TESTING.
DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) REQUIRED.
THE ASSEMBLY MUST BE LOCATED AT THE WATER RISER/SUPPLY PIPING, ON THE CENTERLINE OF THE CITY WATER SERVICE AS IT RUNS PERPENDICULAR FROM THE RIGHT OF WAY.
THE RISER/SUPPLY PIPING MUST BE LOCATED 12" FROM THE FOUNDATION WALL TO CENTERLINE OF PIPE.
IF THE SERVICE ENTERS FROM BELOW SLAB–ON–GRADE CONSTRUCTION, THE ASSEMBLY WILL NEED TO BE LOCATED 12" AFF MEASURED TO THE LOWEST POINT OF THE ASSEMBLY BODY. SEE WATER BUREAU BACKFLOW ASSEMBLY INSTALLATION REQUIREMENTS PAGE 1, ITEM 1 FOR OTHER CRITICAL ASSEMBLY AND RISER REQUIREMENTS.

GRAPHIC SCALE
0 10 20
1 inch = 10 ft.

RECEIVED
By Permitting Services at 1:24 pm, May 28, 2021

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CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

REGISTERED PROFESSIONAL ENGINEER 16,071 OREGON JULY 12, 2005 MARTHA WILLIAMSON

EXPIRES 6–30–2020

Humber Design Group, Inc.
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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO

PERMIT REVISION

Issue Date: 2020-11-16

REVISIONS:

1	ADDENDUM 2	2018-03-30
2	ADDENDUM 3	2018-06-08
6	ASI 003	2021-02-02
19	CHECKSHEET REVISIONS	2021-04-13
20	CHECKSHEET REVISIONS	2021-05-26

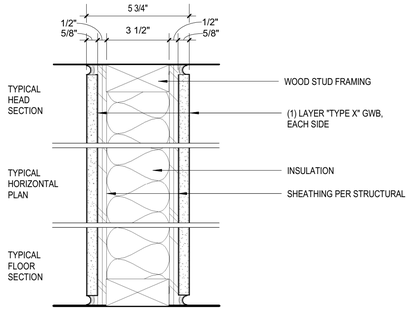
UTILITY PLAN

Sheet Name

C200

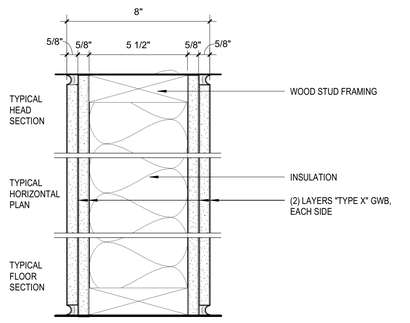
Sheet Number

INTERIOR



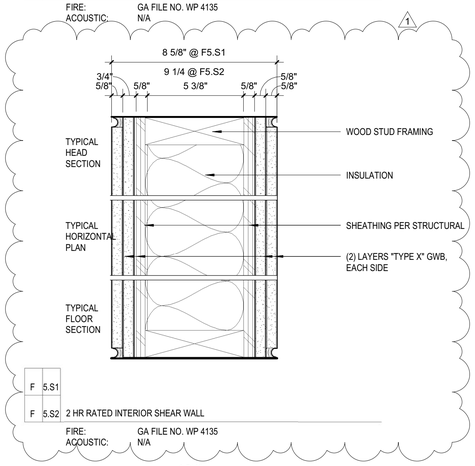
F 4.S 1HR - RATED INTERIOR SHEAR WALL

FIRE: GA FILE NO. 3520
ACOUSTIC: N/A



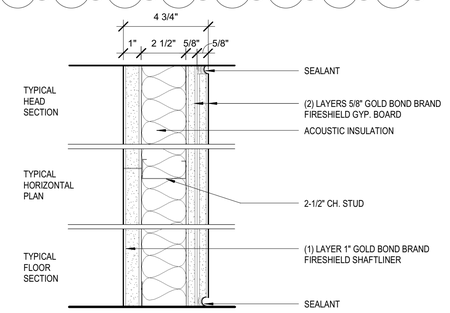
F 5 2 HR RATED INTERIOR WALL

FIRE: GA FILE NO. WP 4135
ACOUSTIC: N/A



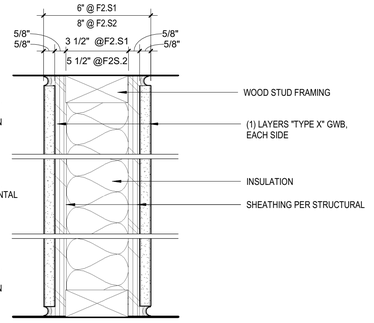
F 5.S1
F 5.S2 2 HR RATED INTERIOR SHEAR WALL

FIRE: GA FILE NO. WP 4135
ACOUSTIC: N/A



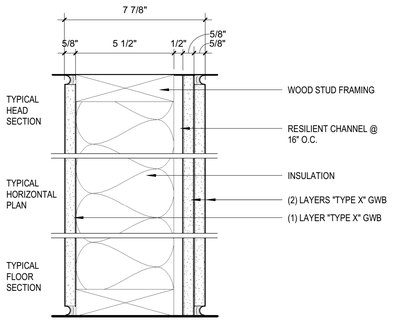
F 6 2 HR INTERIOR SHAFTWALL

FIRE: GA FILE NO. WP 7060
ACOUSTIC: N/A



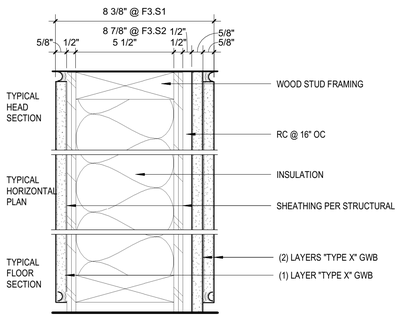
F 2.S1
F 2.S2 NON - RATED INTERIOR SHEAR WALL

FIRE: N/A
ACOUSTIC: N/A



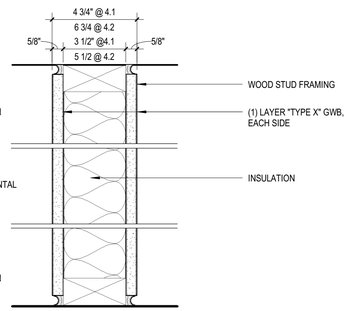
F 3 1 HR RATED CORRIDOR/DEMISING WALL - ACOUSTIC

FIRE: GA FILE NO. WP 3244
ACOUSTIC: STC 50, IRC-IR-761



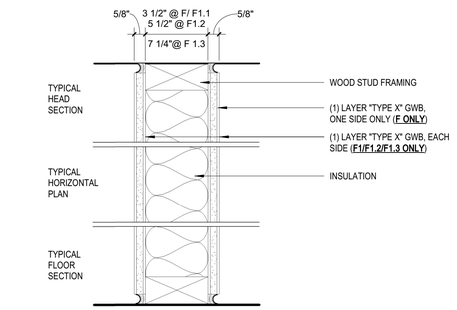
F 3.S1
F 3.S2 1 HR RATED SHEAR WALL - ACOUSTIC

FIRE: GA FILE NO. WP 3244
ACOUSTIC: STC 50, IRC-IR-761



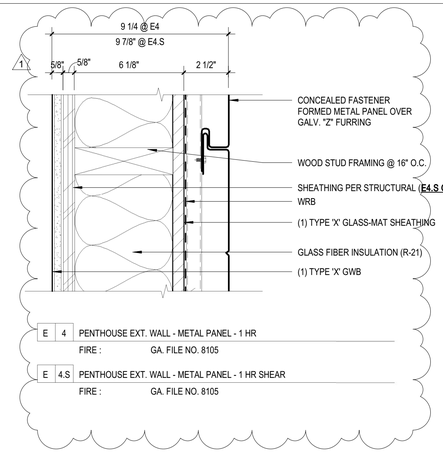
F 4.1
F 4.2 1HR - RATED INTERIOR WALL

FIRE: GA FILE NO. 3520
ACOUSTIC: N/A



F 1 NON - RATED INTERIOR WALL - 2X4 FURRED
F 1.1 NON - RATED INTERIOR WALL - 2X4
F 1.2 NON - RATED INTERIOR WALL - 2X6
F 1.3 NON - RATED INTERIOR WALL - 2X8

FIRE: N/A
ACOUSTIC: N/A

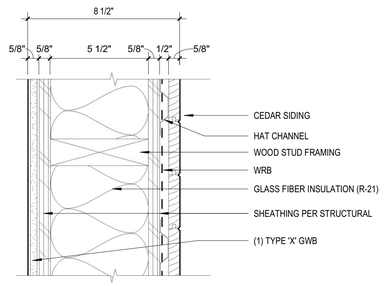


E 4 PENTHOUSE EXT. WALL - METAL PANEL - 1 HR

FIRE : GA. FILE NO. 8105

E 4.S PENTHOUSE EXT. WALL - METAL PANEL - 1 HR SHEAR

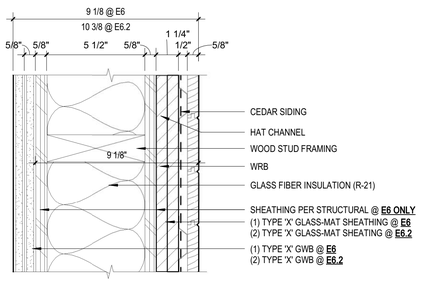
FIRE : GA. FILE NO. 8105



E 5 1 HR EXTERIOR WALL - WOOD SIDING

EXPOSURE FROM INTERIOR

FIRE : 1 HR (RATING FROM INTERIOR PER OSSC 705.5)
TABLE 722.6.2(1) 5/8" GWB = 40 MINUTES
TABLE 722.6.2(2) WOOD STUDS @ 16" O.C. = 20 MIN



E 6 1 HR EXTERIOR WALL - WOOD SIDING

EXPOSURE FROM BOTH SIDES
FIRE : GA. FILE NO. 8105

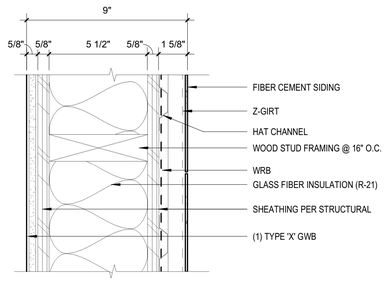
E 6.2 2 HR EXTERIOR WALL - WOOD SIDING (ALLEY ALCOVE)

EXPOSURE FROM BOTH SIDES
FIRE : GA. FILE NO. 8415

GENERAL NOTES

1. MOISTURE RESISTANT GYPSUM BOARD (HAVING A MIN SCORE OF 10 ON THE ASTM D-3273 MOLD RESISTANCE TEST) TYPICAL AT ALL RESTROOMS
2. PROVIDE ACOUSTICAL SEALANT AT PERIMETER AND PENETRATIONS OF SOUND RATED PARTITIONS AND OTHER CONSTRUCTION AS REQUIRED TO ACHIEVE STC RATINGS INDICATED.
3. ALL PARTITIONS TO BE TO STRUCTURE U.N.O.
4. MAINTAIN FIRE RATING & ACOUSTICAL RATING OF PARTITIONS AROUND FIRE EXTINGUISHER CABINETS AND OTHER RECESSED ITEMS.
5. PROVIDE UL FIRE LABELED GYPSUM BOARD AT FIRE RATED PARTITIONS.
6. WALL FNISHES MAY VARY. REFER TO FINISH PLANS, INTERIOR ELEVATIONS.
7. PROVIDE BLOCKING, BACKING, STRAPPING AS REQUIRED PER CODE AND AS REQUIRED TO INSTALL FINISHES, FIXTURES AND BUILT-INS.
8. REFER TO G SHEETS FOR RATED PARTITION LOCATIONS
9. REFER TO SPECIFICATION FOR FLAME SPREAD INDEX INFORMATION ON FINISH MATERIALS.
10. ALL EXTERIOR FASTENERS TO BE STAINLESS STEEL U.N.O.
11. STRUCTURAL COLUMNS & BEAMS SUPPORTING OCCUPANCIES THAT ARE SEPARATED FROM ADAJACENT OCCUPANCIES SHALL ALSO BE RATED WITH A FIRE RESISTANT RATING MATCHING THAT OF THE SEPARATION.
12. ADJUSTMENTS TO WALL THICKNESS DUE TO STRUCTURAL ELEMENTS SUCH AS SHEARWALL SHEATHING, FASTENERS & CONNECTIONS. COORDINATE AS REQUIRED AND REPORT DISCREPANCIES TO THE ARCHITECT IN WRITING.

EXTERIOR

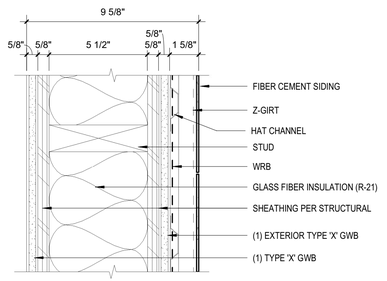


E 1 1 HR EXTERIOR WALL - FIBER CEMENT

EXPOSURE FROM INTERIOR

FIRE : 1 HR (RATING FROM INTERIOR PER OSSC 705.5)

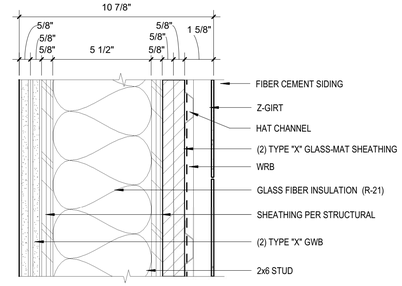
TABLE 722.6.2(1) 5/8" GWB = 40 MINUTES
TABLE 722.6.2(2) WOOD STUDS @ 16" O.C. = 20 MIN



E 2 1 HR EXTERIOR WALL - FIBER CEMENT

EXPOSURE FROM BOTH SIDES

FIRE : GA. FILE NO. 8105



E 3 2 HR EXTERIOR WALL - FIBER CEMENT

EXPOSURE FROM BOTH SIDES
FIRE : GA. FILE NO. 8415

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REGISTERED ARCHITECT
ALAN W. JONES
PORTLAND, OREGON
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT REVISION

Issue Date: 2020-11-16

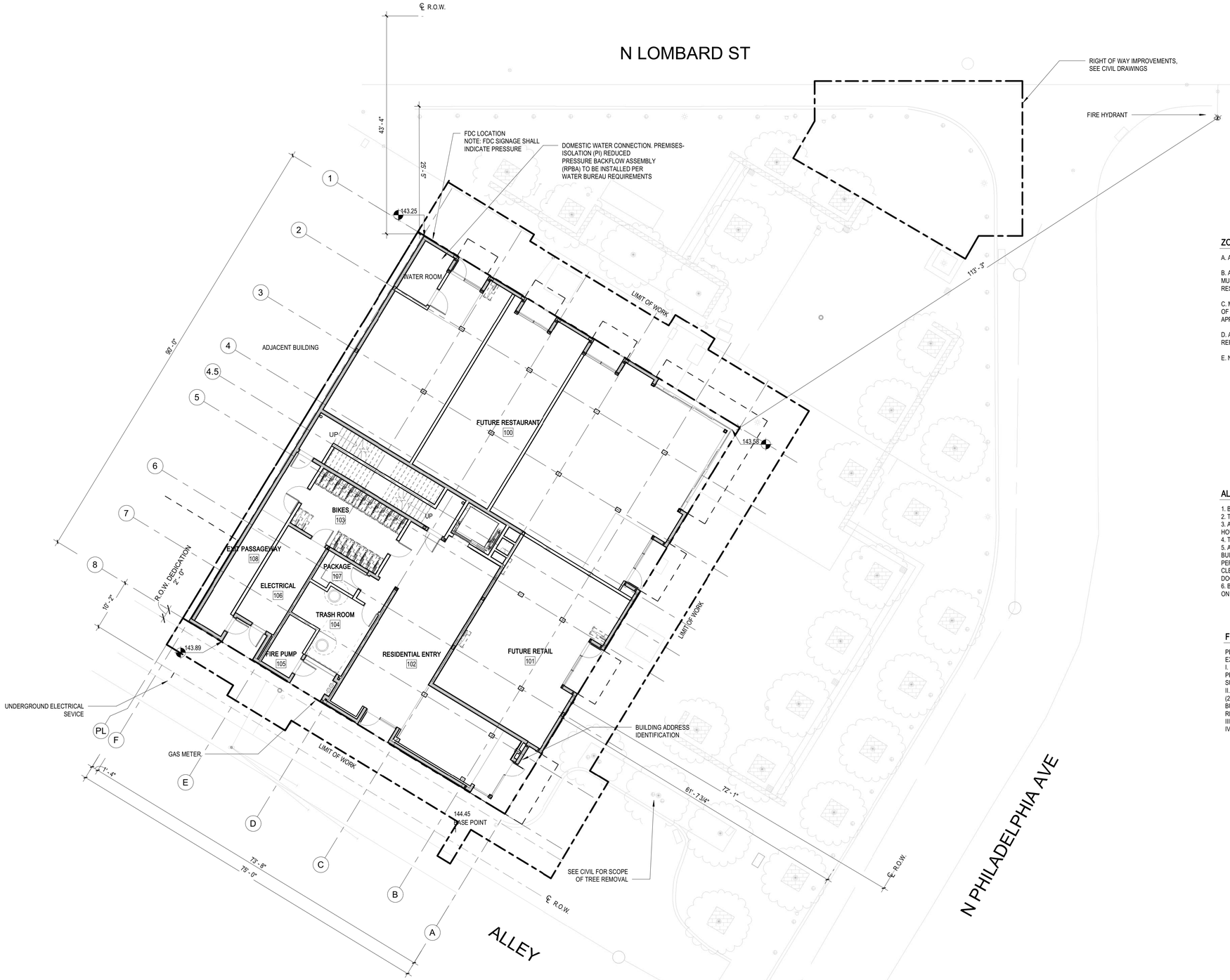
REVISIONS:

1	PERMIT REVISION	11/16/20

VERTICAL ASSEMBLIES

A001

18-114385-000-REV 01-CO



ZONING COMPLIANCE PAGE - CASE FILE LU 17-113306 DZM:

A. ALL NOTES LISTED BELOW ARE REQUIRED FOR PERMIT APPROVAL

B. AT THE TIME OF BUILDING PERMIT SUBMITTAL, A SIGNED CERTIFICATE OF COMPLIANCE FORM MUST BE SUBMITTED TO ENSURE THE PERMIT PLANS COMPLY WITH THE DESIGN/HISTORIC RESOURCE REVIEW DECISION AND APPROVED EXHIBITS.

C. METAL PANELS TO BE A MINIMUM OF 22 GAUGE FOR SPANS LESS THAN 12", AND A MINIMUM OF 20 GAUGE FOR SPANS OF 12" OR MORE. BACKED, COMPOSITE METAL PANEL IS AN APPROVABLE SUBSTITUTE AND MAY UTILIZE ANY GAUGE OF METAL. SEE ELEVATIONS ON SHEET A200

D. ALL EXHAUST VENTS IN ENTRANCE BAYS MUST VENT ABOVE CANOPIES. SEE GROUND STORY REFLECTED CEILING PLAN ON SHEET A700

E. NO FIELD CHANGES ALLOWED

ALTERNATE TO AERIAL FIRE APPARATUS ROADS: (FROM PORTLAND FIRE CODE)

1. BUILDING IS EQUIPPED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM,
2. THERE ARE NO COMBUSTIBLE CONCEALED ATTIC SPACES,
3. ALL STAIRWAY EXIT ENCLOSURES SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS,
4. THE ROOF IS ESSENTIALLY FLAT (33-PERSCENT SLOPE OR LESS) AND,
5. APPROVED ACCESS IS PROVIDED TO THE ROOF FROM ONE STAIRWAY PER APPEAL #24651. IN BUILDINGS WITHOUT AN OCCUPIED ROOF, ACCESS TO THE ROOF FROM THE TOP STORY SHALL BE PERMITTED TO BE BY AN ALTERNATING TREAD DEVICE, A SHIP STAIR OR LADDER THAT PROVIDES A CLEAR WIDTH OF NOT LESS THAN 30 INCHES BETWEEN HANDRAILS THROUGH A ROOF HATCH OR TRAP DOOR NOT LESS THAN 30 INCHES (762 MM) WIDE AND 8 FEET (2438 MM) LONG (OSSC 1009).
6. BUILDING REQUIRING STANDPIPES ARE EQUIPPED WITH AT LEAST ONE STANDPIPE THAT TERMINATES ON THE ROOF.

19

FIRE PUMP POWER SUPPLY REQUIREMENT: (FROM FIR-8.06)

PER FIR-8.06 POWER SUPPLY REQUIREMENTS FOR ELECTRIC MOTOR-DRIVEN FIRE PUMPS 3.C. EXCEPTION, NO ALTERNATE POWER SOURCE IS REQUIRED.
I. THREE YEAR RELIABILITY REPORT PROVIDED FROM PORTLAND GENERAL ELECTRIC TO PROPERTY OWNER ON JANUARY 12, 2018 AND WILL BE INCLUDED IN SEPARATE FIRE SPRINKLER SUBMITTAL.
II. MUNICIPAL WATER SUPPLY IS CAPABLE OF SUPPLYING THE REQUIRED PRESSURE TO THE TWO (2) MOST REMOTE SPRINKLER HEADS WITHOUT FIRE PUMP ASSISTANCE, USING PORTLAND WATER BUREAU SIM ID #2932 WITH 20% REDUCTION. HYDRAULIC CALCULATION FOR THE TWO (2) MOST REMOTE SPRINKLER HEADS TO BE INCLUDED IN THE SEPARATE FIRE SPRINKLER SUBMITTAL.
III. CONDITION IS SATISFIED
IV. CONDITION IS SATISFIED

PLAN NORTH

1 A100 SITE PLAN
1" = 10'-0"

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REGISTERED ARCHITECT
ALAN W. JONES
PORTLAND, OREGON
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO

PERMIT REVISION

Issue Date: 2020-11-16

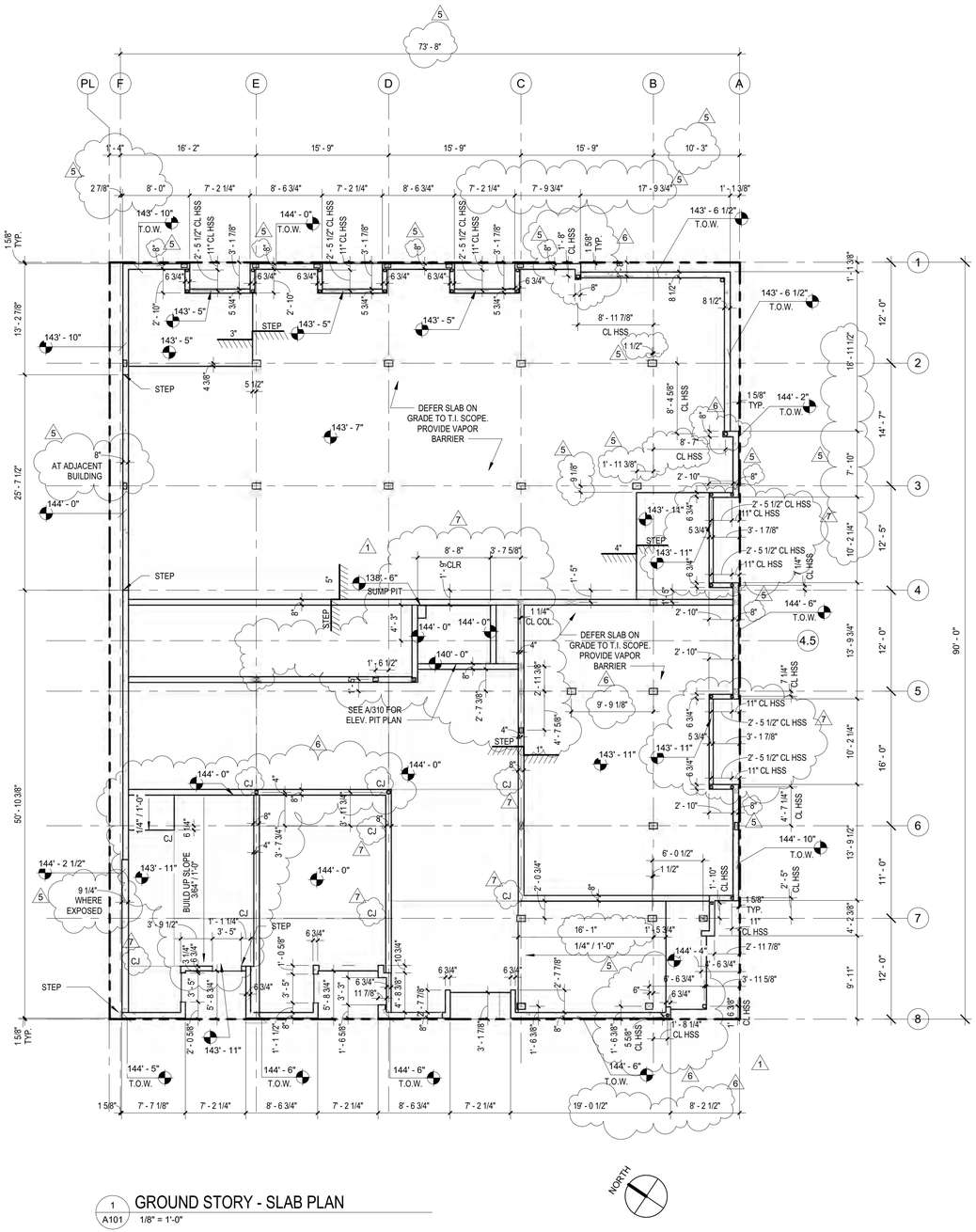
REVISIONS:

6	ASI #003	01/29/21
7	ASI #003 REV #01	02/18/21
19	CHECKSHEET REVISIONS	4/22/21

SITE PLAN

A100

RECEIVED 4/23/21



1 A101 GROUND STORY - SLAB PLAN

1/8" = 1'-0"

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Permit #: 18-114385-REV-01-CO

PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	PERMIT REVISION	11/16/20
5	RF1 #022	1/18/21
6	ASI #003	01/29/21
7	ASI #003 REV #01	02/18/21

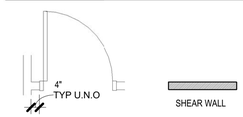
SLAB PLAN

A101

SUBMITTED 2/26/21

18-114385-000-REV 01-CO

LEGEND



SHEET NOTES

1. INTERIOR DIMENSIONS ARE TO FACE OF STUD OR FACE OF CONCRETE, U.N.O.

2. INTERIOR DIMENSIONS NOTED AS "CLR MIN" ARE TO FACE OF FINISH

3. DOORS IN FRAMED PARTITION WALLS TO BE 4" FROM DOOR OPENING TO PERPENDICULAR WALL, U.N.O.

4.EXTERIOR DIMENSIONS ARE TO FACE OF SIDING OR FACE OF CURTAIN WALL/STOREFRONT FRAME, U.N.O.

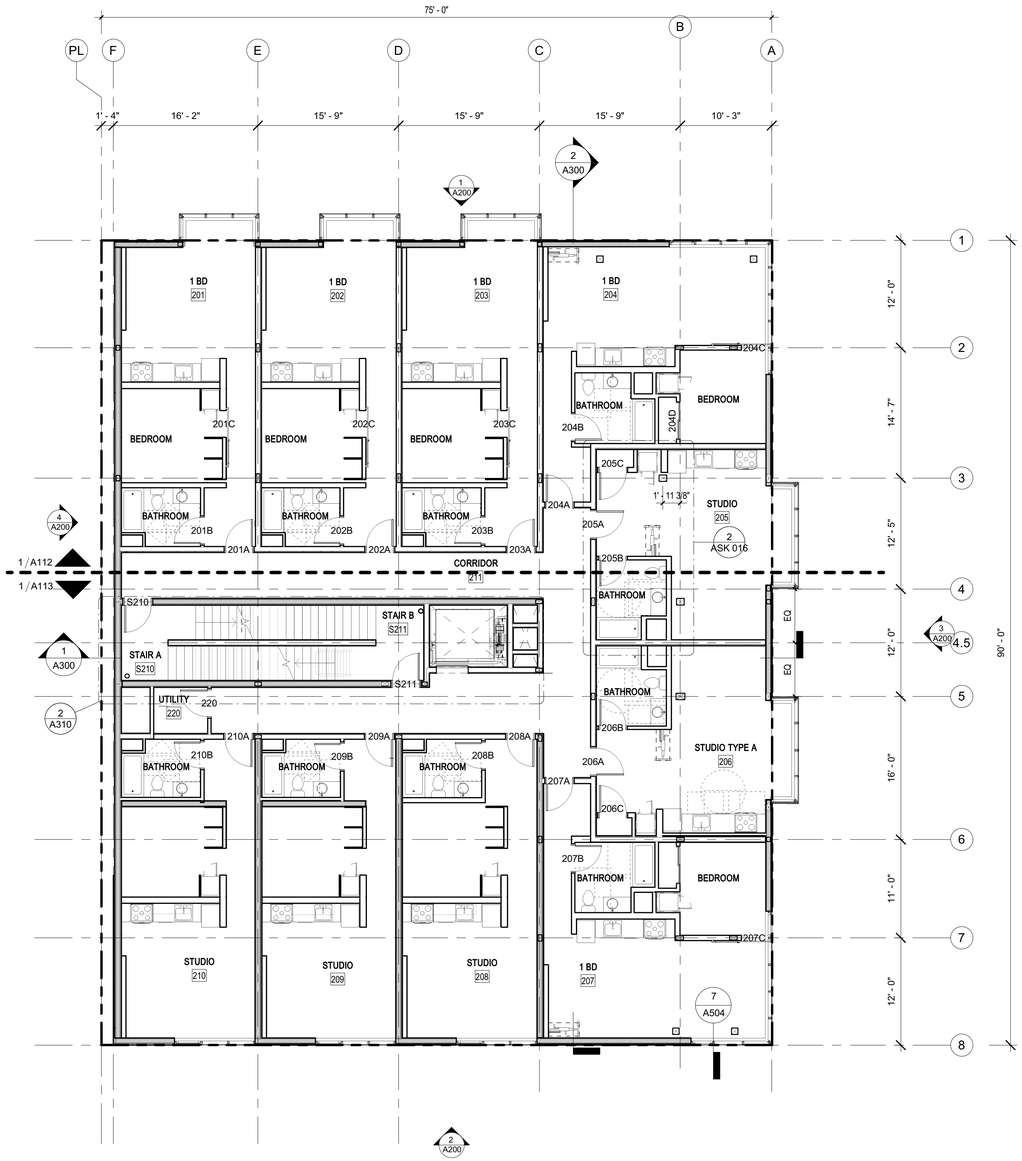
5. STRUCTURAL SHEAR WALLS ARE INDICATED AS HATCHED WALLS

6. FOR WALL RATINGS, SEE LIFE SAFETY SHEETS

7. ALL PRIMARY STEEL FRAMING MEMBERS THAT ARE NOT LOCATED IN FIRE WALLS SHALL HAVE INTUMESCENT PAINT TO ACHIEVE A 1-HOUR RATING.

8. ALL EXTERNAL STEEL HANGERS AND BOLTS SHALL HAVE INTUMESCENT PAINT TO ACHIEVE A 1-HOUR RATING. SEE HANGER SCHEDULE ON S003.

9. ALL WOOD COLUMNS AND BEAMS WITHIN FIRE-RATED WALLS SHALL BE CONSIDERED INDIVIDUALLY PROTECTED TO ACHIEVE A 1-HOUR RATING PER APPROVED APPEAL #18185. SEE BEAMS AND COLUMNS LISTED AS "NOT FIRE RATED" ON S003 SCHEDULES.

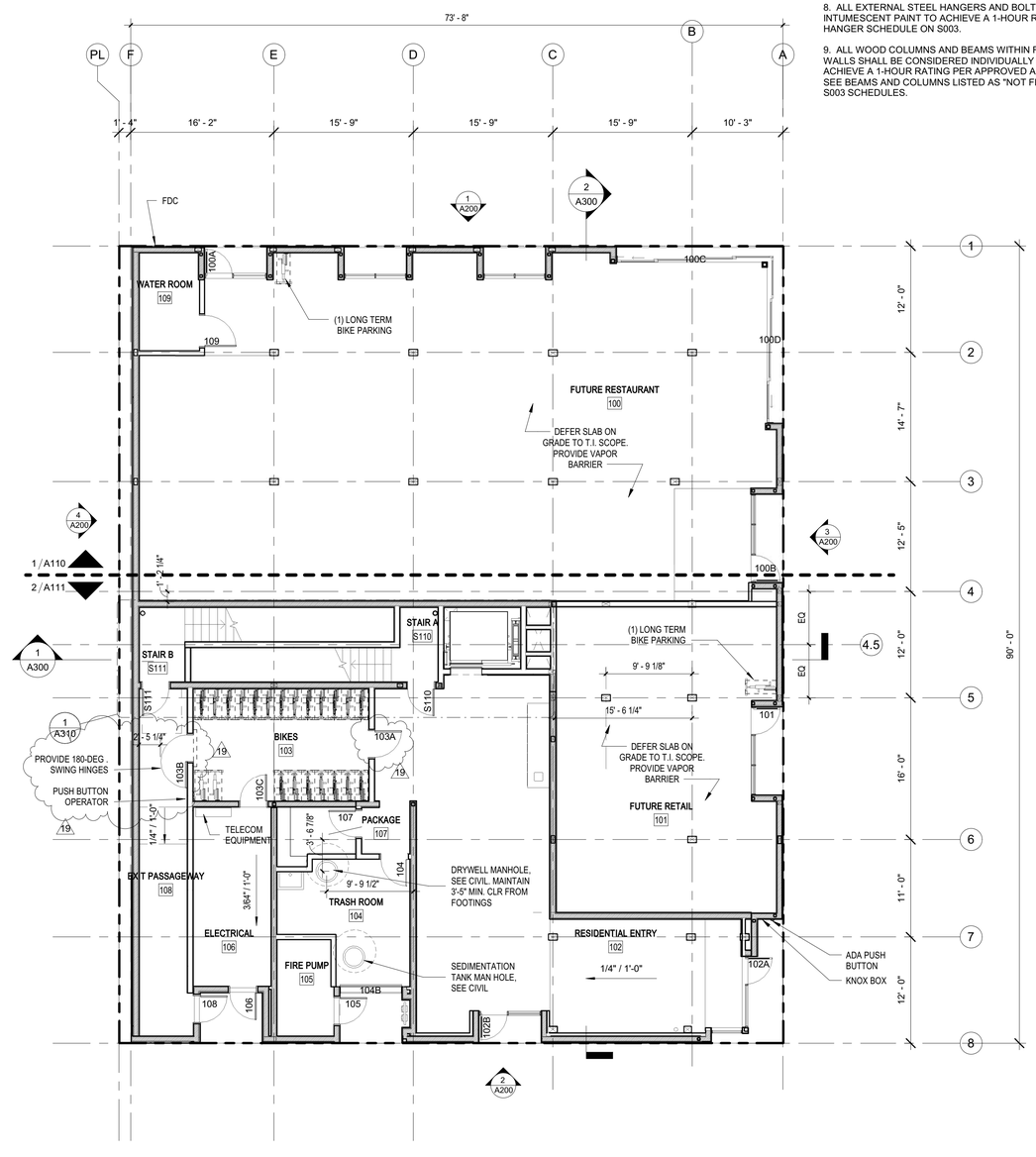


2 A102 SECOND STORY - FLOOR PLAN

1/8" = 1'-0"

NOTE:

SEE ENLARGED PLANS A112 & A113 FOR TYPICAL CONDITIONS



1 A102 GROUND STORY - FLOOR PLAN

1/8" = 1'-0"

NORTH

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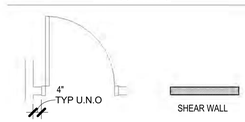
6	ASI #003	01/29/21
15	ASI #04	3/24/21
19	CHECKSHEET REVISIONS	4/22/21

FLOOR PLANS

A102

RECEIVED 4/23/21

LEGEND



SHEET NOTES

1. INTERIOR DIMENSIONS ARE TO FACE OF STUD OR FACE OF CONCRETE, U.N.O.

2. INTERIOR DIMENSIONS NOTED AS "CLR MIN" ARE TO FACE OF FINISH

3. DOORS IN FRAMED PARTITION WALLS TO BE 4" FROM DOOR OPENING TO PERPENDICULAR WALL, U.N.O.

4.EXTERIOR DIMENSIONS ARE TO FACE OF SIDING OR FACE OF CURTAIN WALL/STOREFRONT FRAME, U.N.O.

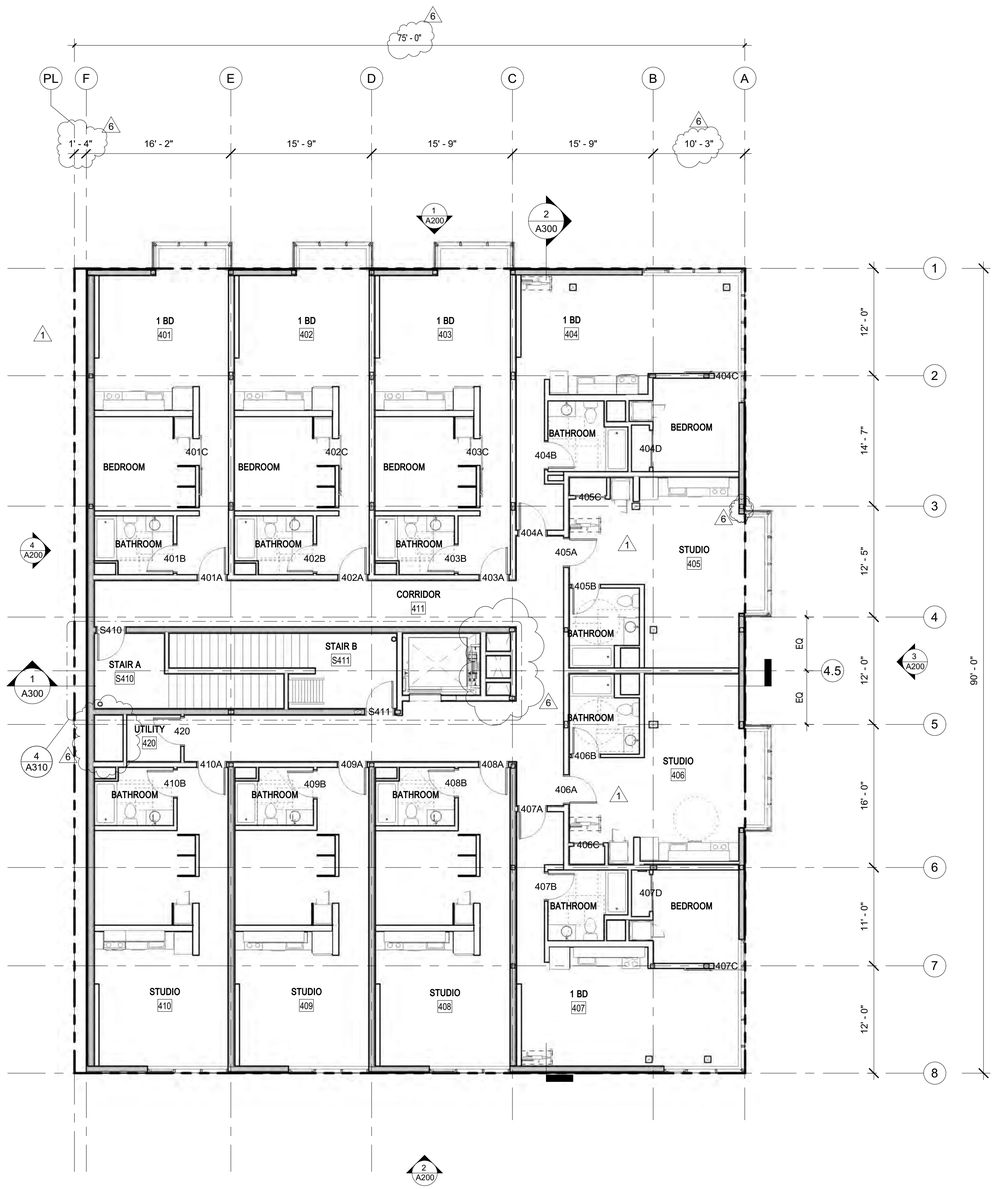
5. STRUCTURAL SHEAR WALLS ARE INDICATED AS HATCHED WALLS

6. FOR WALL RATINGS, SEE LIFE SAFETY SHEETS

7. ALL PRIMARY STEEL FRAMING MEMBERS THAT ARE NOT LOCATED IN FIRE WALLS SHALL HAVE INTUMESCENT PAINT TO ACHIEVE A 1-HOUR RATING.

8. ALL EXTERNAL STEEL HANGERS AND BOLTS SHALL HAVE INTUMESCENT PAINT TO ACHIEVE A 1-HOUR RATING. SEE HANGER SCHEDULE ON S003.

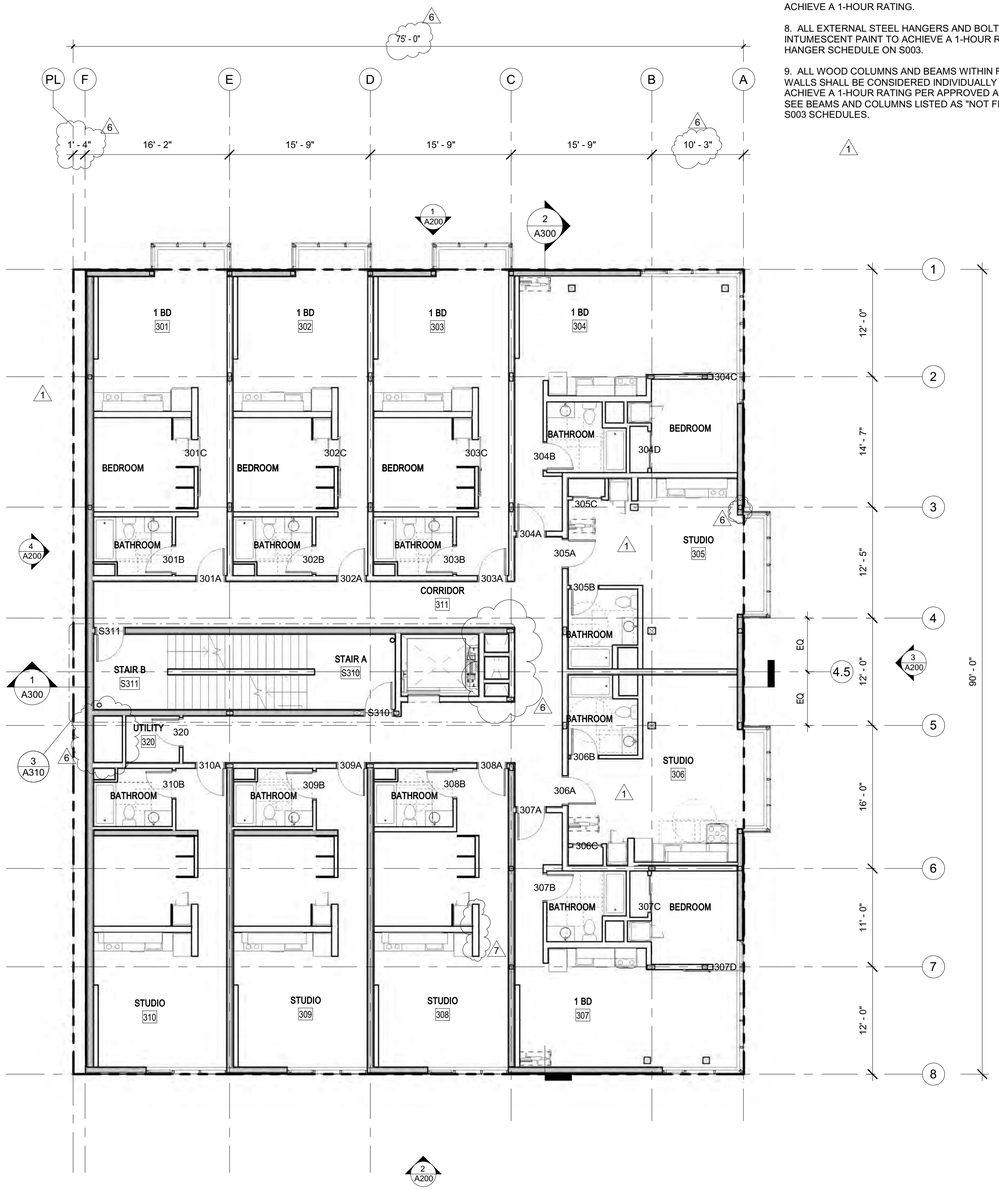
9. ALL WOOD COLUMNS AND BEAMS WITHIN FIRE-RATED WALLS SHALL BE CONSIDERED INDIVIDUALLY PROTECTED TO ACHIEVE A 1-HOUR RATING PER APPROVED APPEAL #18185. SEE BEAMS AND COLUMNS LISTED AS "NOT FIRE RATED" ON S003 SCHEDULES.



2 A103 FOURTH STORY - FLOOR PLAN

1/8" = 1'-0"
NOTE:
SEE ENLARGED PLANS A112 & A113 FOR TYPICAL CONDITIONS

NORTH



1 A103 THIRD STORY - FLOOR PLAN

1/8" = 1'-0"
NOTE:
SEE ENLARGED PLANS A112 & A113 FOR TYPICAL CONDITIONS

NORTH

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CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

REGISTERED ARCHITECT
ALAN W. JONES
PORTLAND, OREGON
STATE OF OREGON

City of Portland

Reviewed for Code Compliance

Date: 06/04/21

Permit #: 18-114385-REV-01-CO

PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

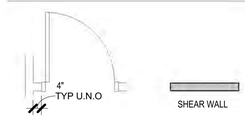
1	PERMIT REVISION	11/16/20
6	ASI #003	01/29/21
7	ASI #003 REV #01	02/18/21

FLOOR PLANS

A103

SUBMITTED 2/26/21

LEGEND



SHEET NOTES

1. INTERIOR DIMENSIONS ARE TO FACE OF STUD OR FACE OF CONCRETE, U.N.O.

2. INTERIOR DIMENSIONS NOTED AS "CLR MIN" ARE TO FACE OF FINISH

3. DOORS IN FRAMED PARTITION WALLS TO BE 4" FROM DOOR OPENING TO PERPENDICULAR WALL, U.N.O.

4.EXTERIOR DIMENSIONS ARE TO FACE OF SIDING OR FACE OF CURTAIN WALL/STOREFRONT FRAME, U.N.O.

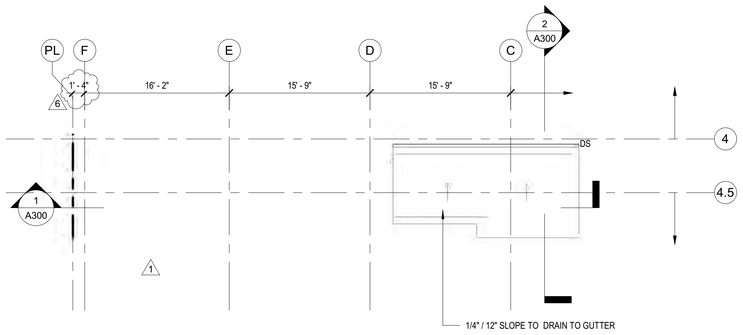
5. STRUCTURAL SHEAR WALLS ARE INDICATED AS HATCHED WALLS

6. FOR WALL RATINGS, SEE LIFE SAFETY SHEETS

7. ALL PRIMARY STEEL FRAMING MEMBERS THAT ARE NOT LOCATED IN FIRE WALLS SHALL HAVE INTUMESCENT PAINT TO ACHIEVE A 1-HOUR RATING.

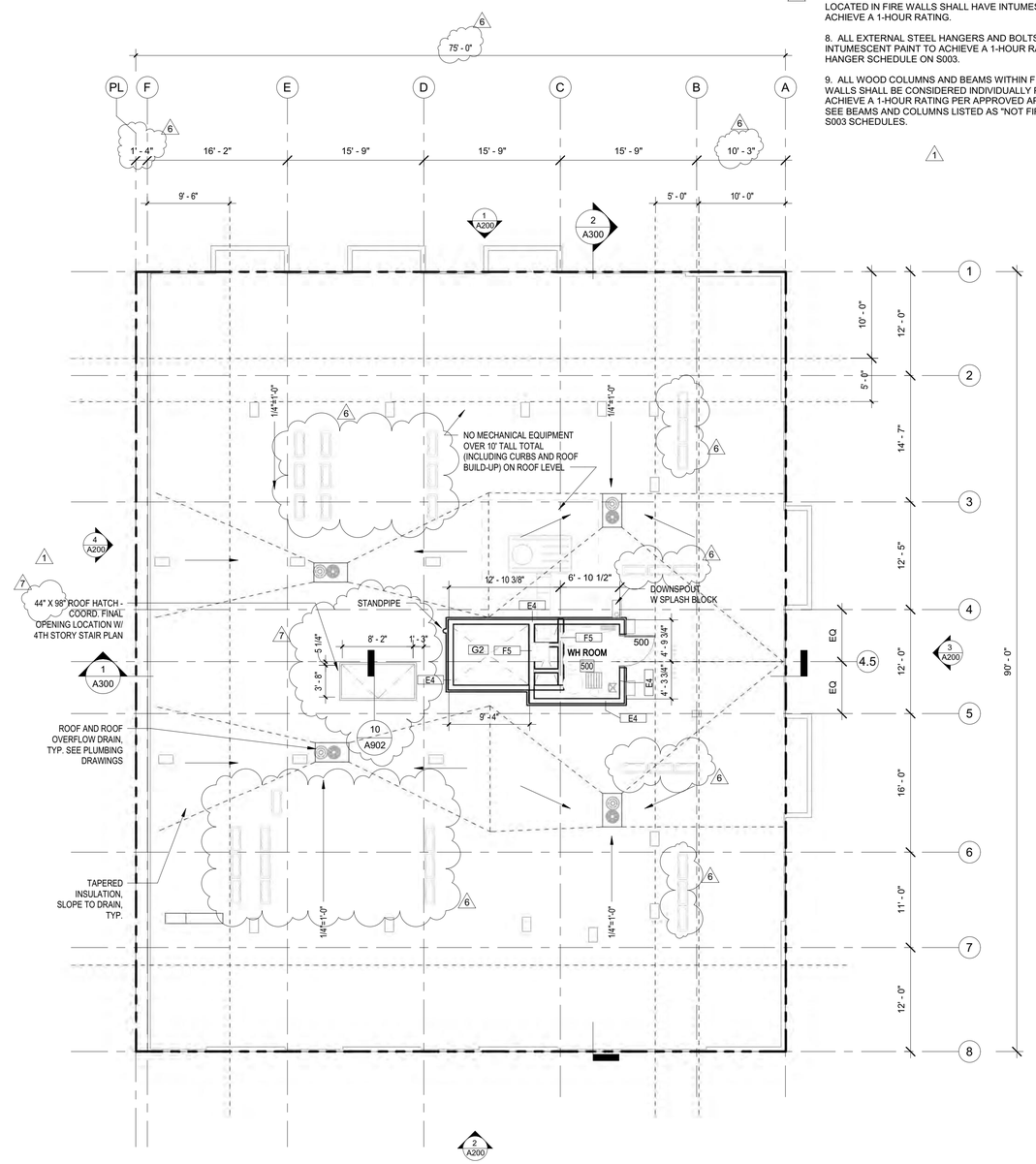
8. ALL EXTERNAL STEEL HANGERS AND BOLTS SHALL HAVE INTUMESCENT PAINT TO ACHIEVE A 1-HOUR RATING. SEE HANGER SCHEDULE ON S003.

9. ALL WOOD COLUMNS AND BEAMS WITHIN FIRE-RATED WALLS SHALL BE CONSIDERED INDIVIDUALLY PROTECTED TO ACHIEVE A 1-HOUR RATING PER APPROVED APPEAL #18185. SEE BEAMS AND COLUMNS LISTED AS "NOT FIRE RATED" ON S003 SCHEDULES.



2 A104 PENTHOUSE ROOF PLAN
1/8" = 1'-0"

NORTH



1 A104 ROOF PLAN
1/8" = 1'-0"

NORTH

JONES

JONES ARCHITECTURE

120 NW 9TH AVENUE, SUITE 210
PORTLAND, OR 97209
T 503 477 9165
jonesarc.com

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ROOF PLANS

A104

SUBMITTED 2/26/21

LEGEND

4" TYP U.N.O

SHEAR WALL

SHEET NOTES

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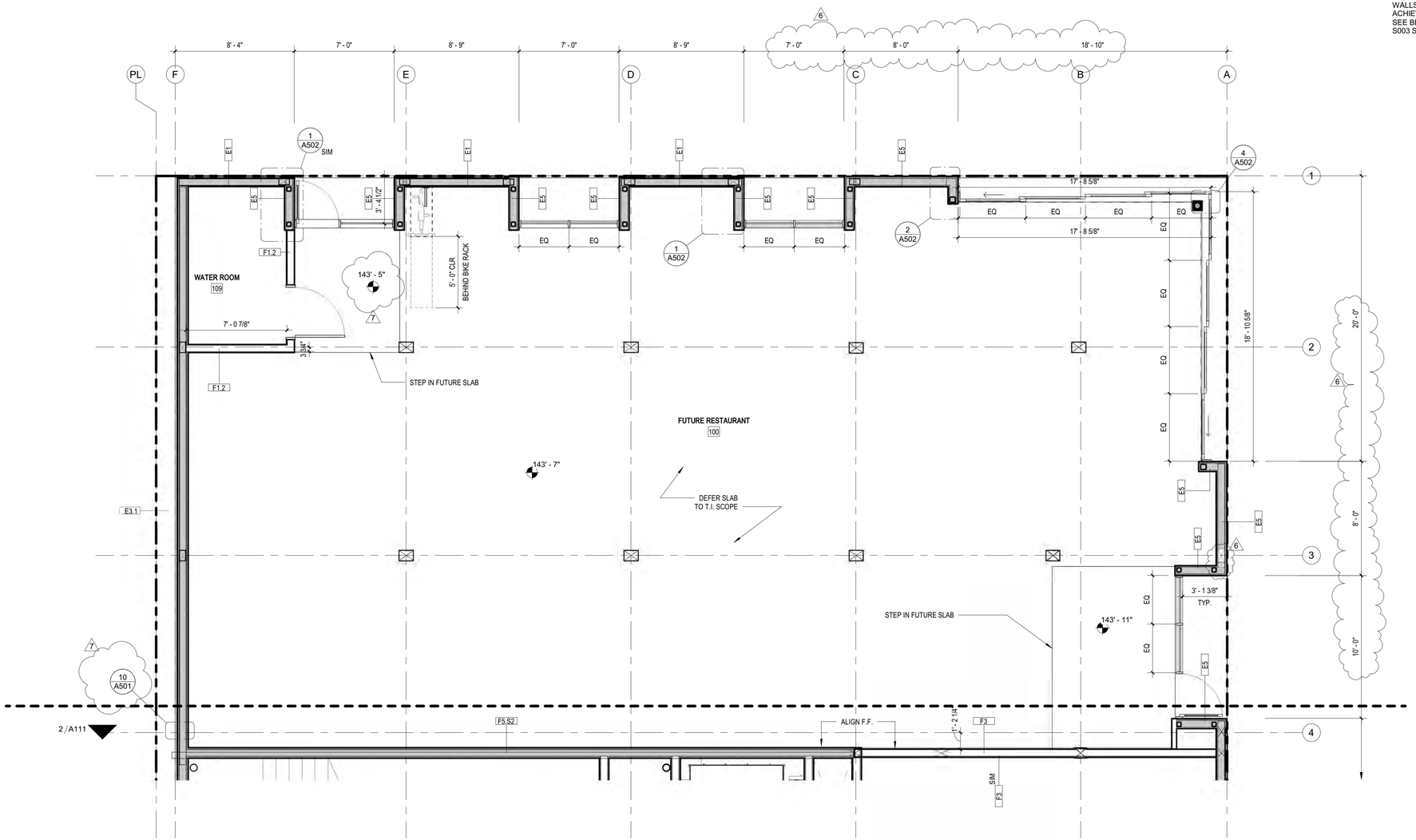

1 A110 GROUND STORY NORTH ENLARGED PLAN

1/4" = 1'-0"

NORTH

JONES

JONES ARCHITECTURE

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ENLARGED GROUND STORY PLANS

A110

SUBMITTED 2/26/21

LEGEND

4" TYP U.N.O

SHEAR WALL

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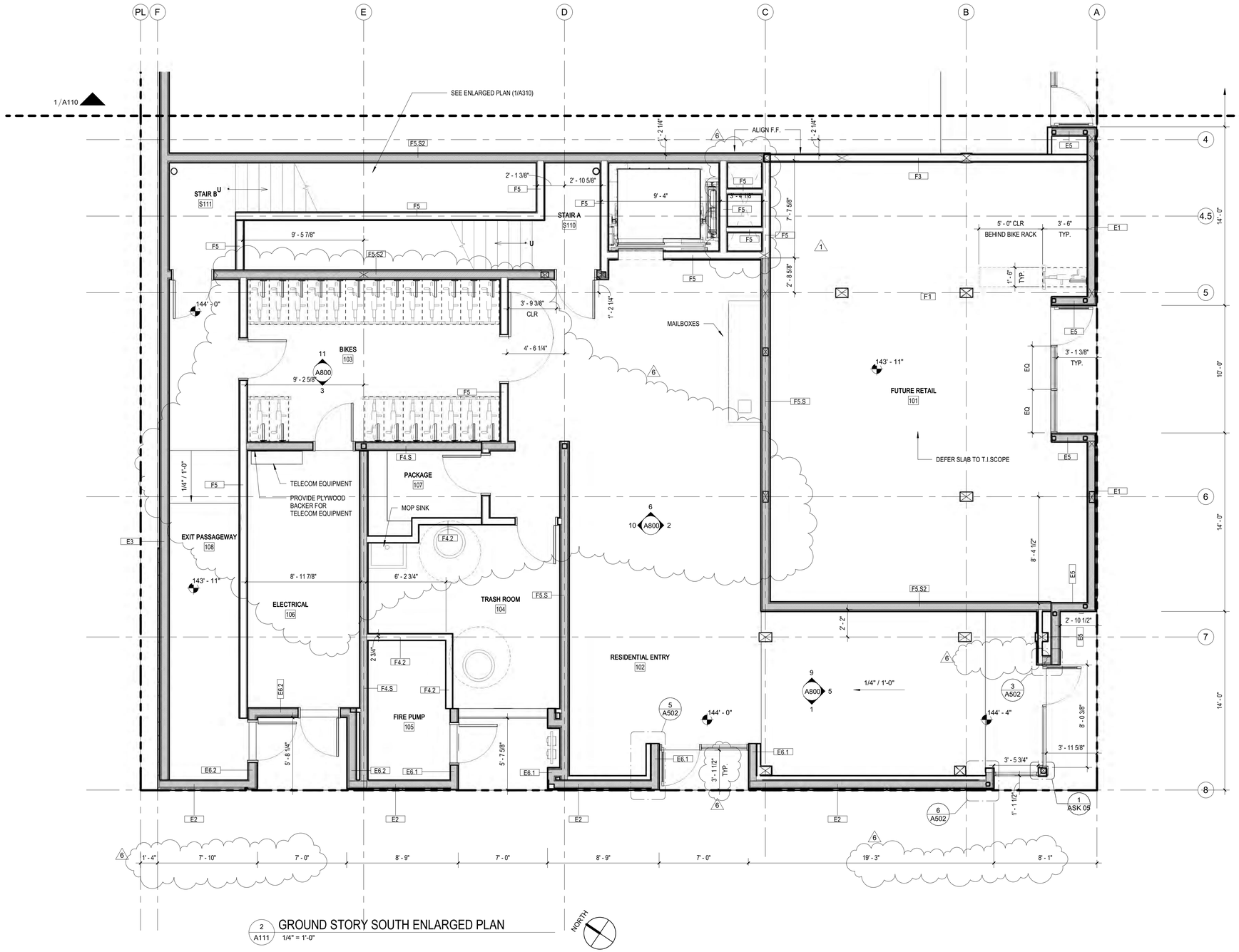

2 A111 GROUND STORY SOUTH ENLARGED PLAN
1/4" = 1'-0"

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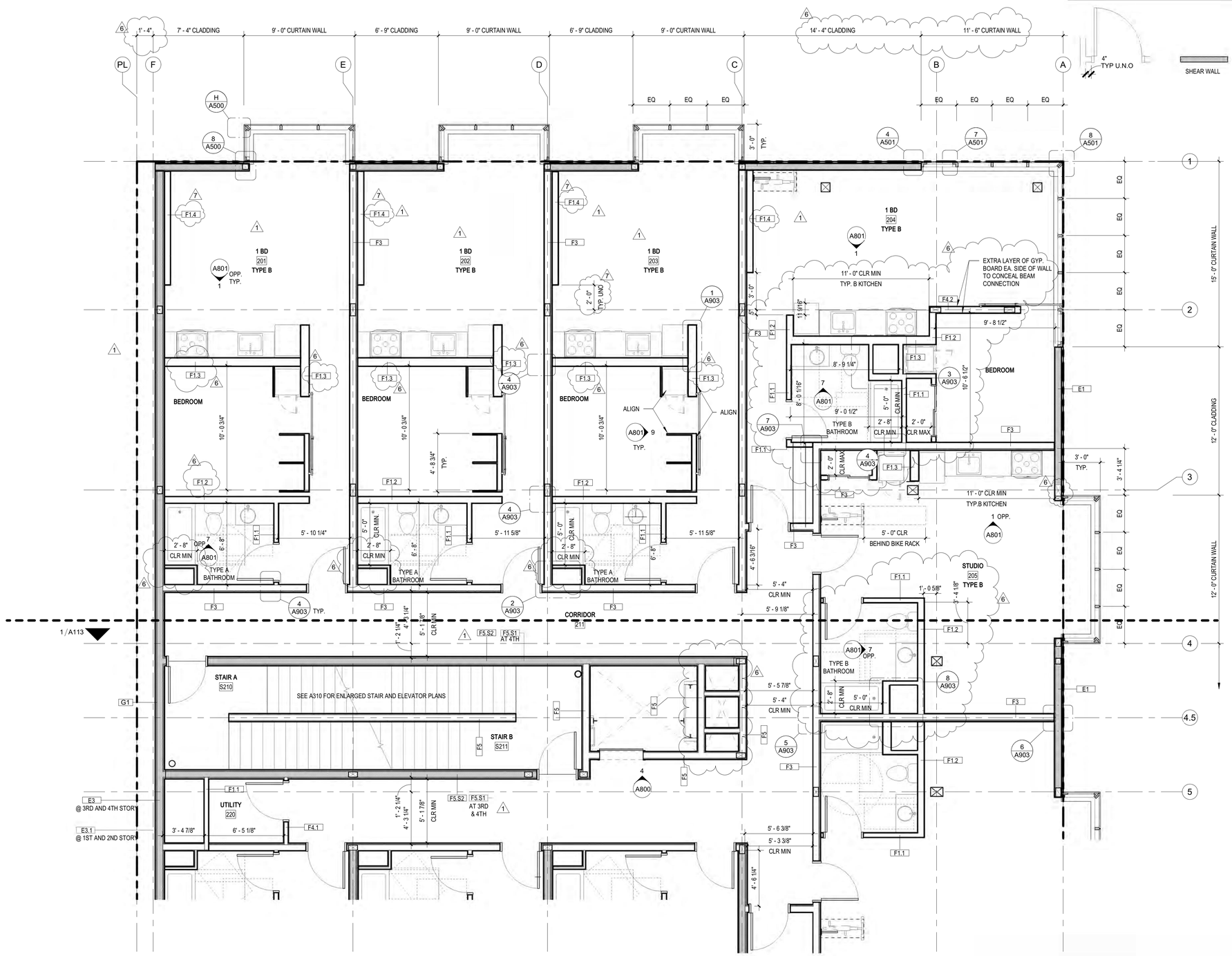
ENLARGED GROUND STORY PLANS

A111

SUBMITTED 2/26/21



1 / A112 2ND - 4TH STORY NORTH ENLARGED PLAN
1/4" = 1'-0"

NORTH

LEGEND

4" TYP U.N.O

SHEAR WALL

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PROJECT UNIT TYPES

TYPE	LEASABLE AREA	QUANTITY
STUDIO TYPE 1	543 SF	9
STUDIO TYPE 2	491 SF	6
1 BEDROOM TYPE 1	570 SF	9
1 BEDROOM TYPE 2	652 SF	6

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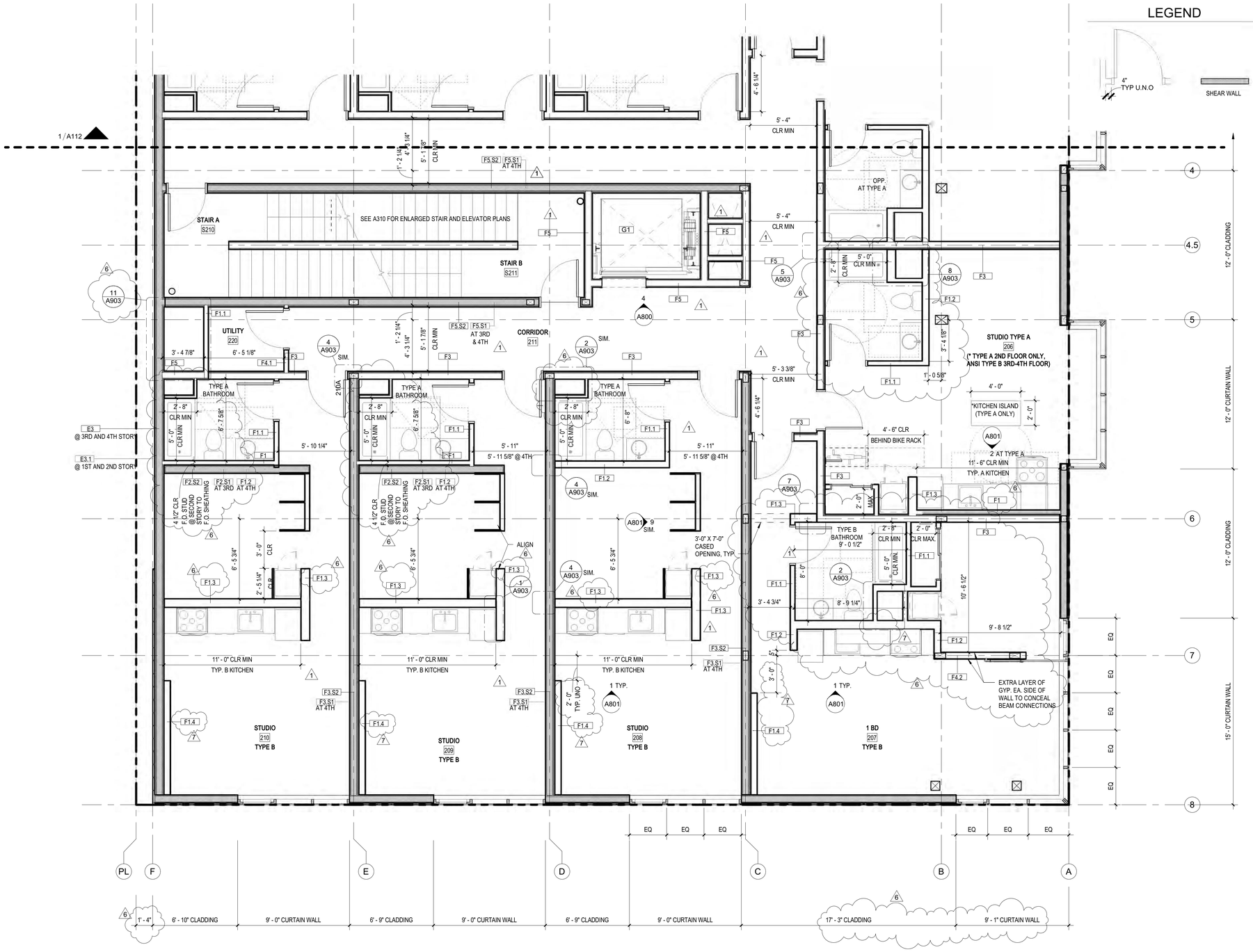
ENLARGED UNIT PLANS

A112

SUBMITTED 2/26/21



1 / A113 — 2ND - 4TH STORY SOUTH ENLARGED PLAN

1/4" = 1'-0"

NORTH

LEGEND

4" TYP U.N.O

SHEAR WALL

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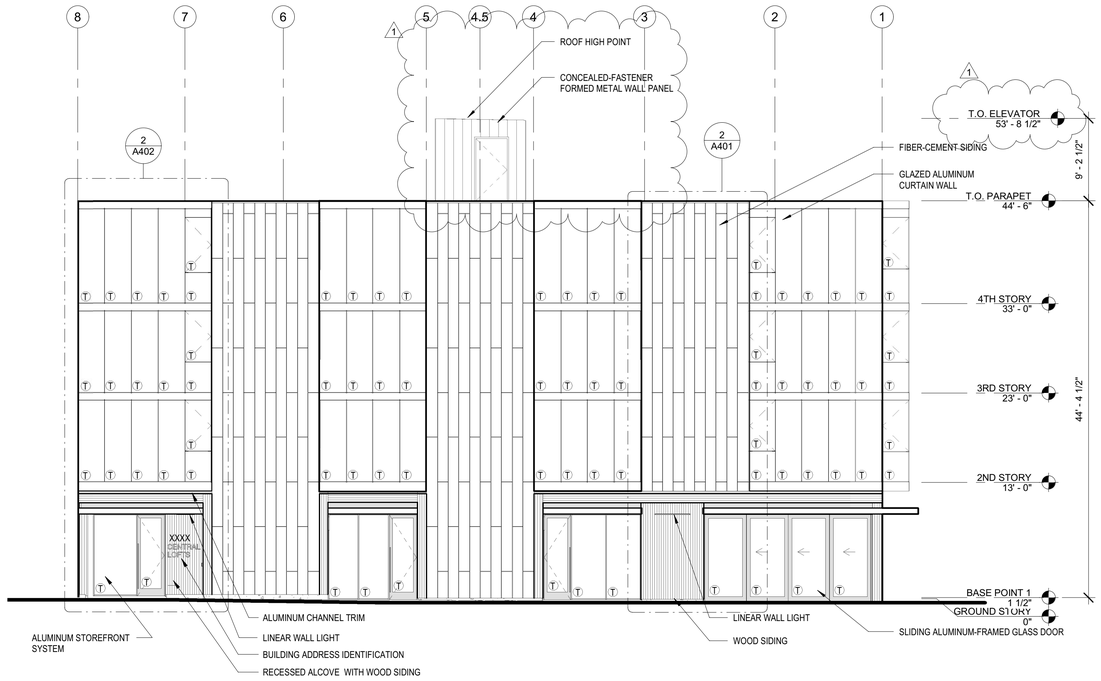
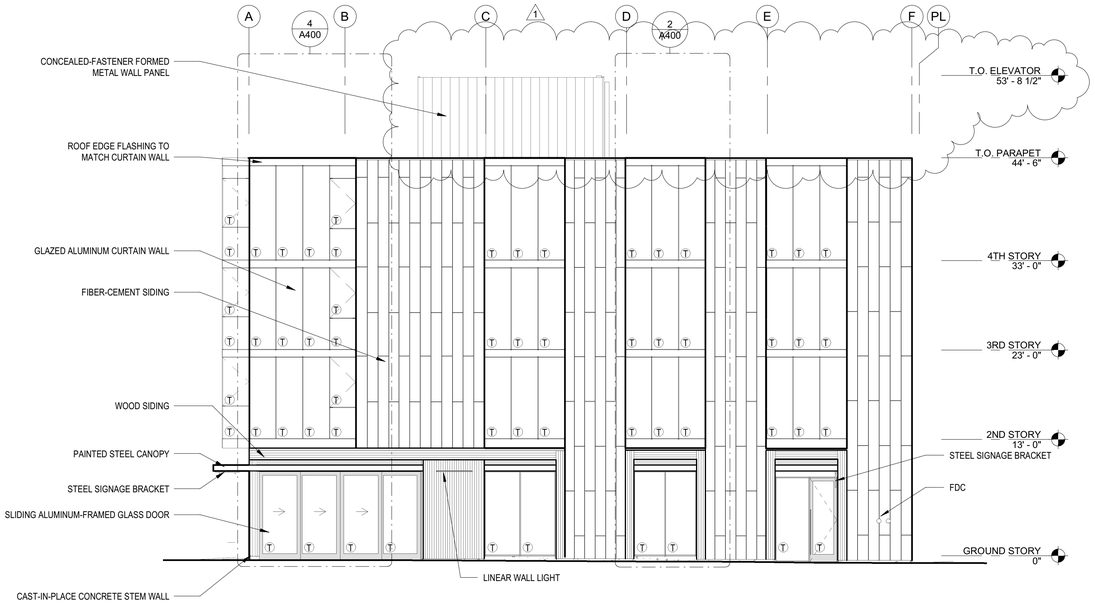
ENLARGED UNIT PLANS

A113

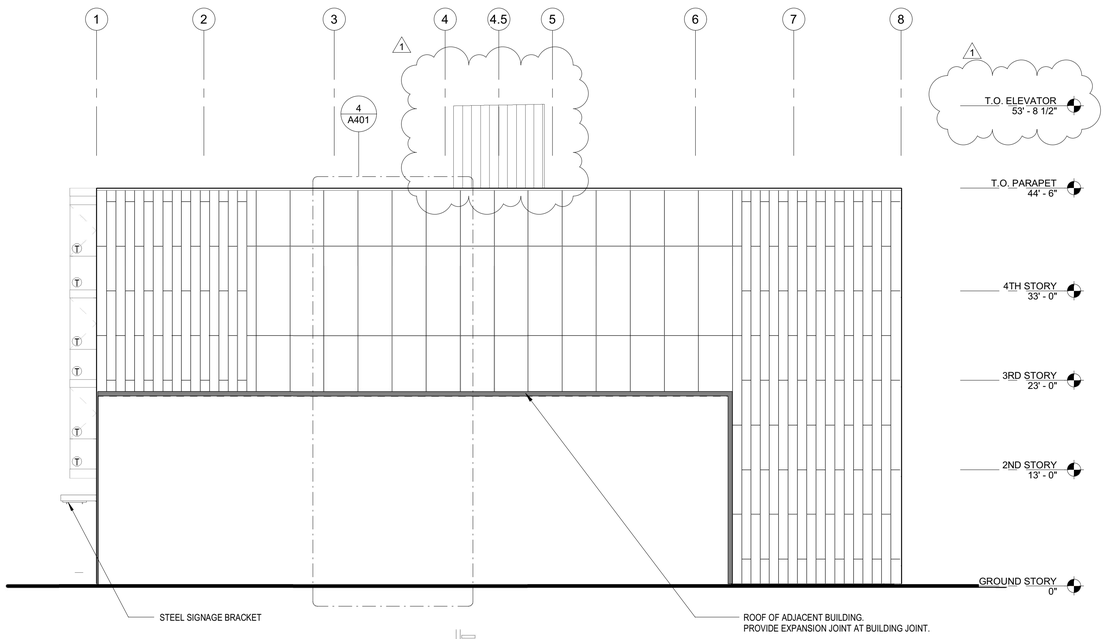
SUBMITTED 2/26/21



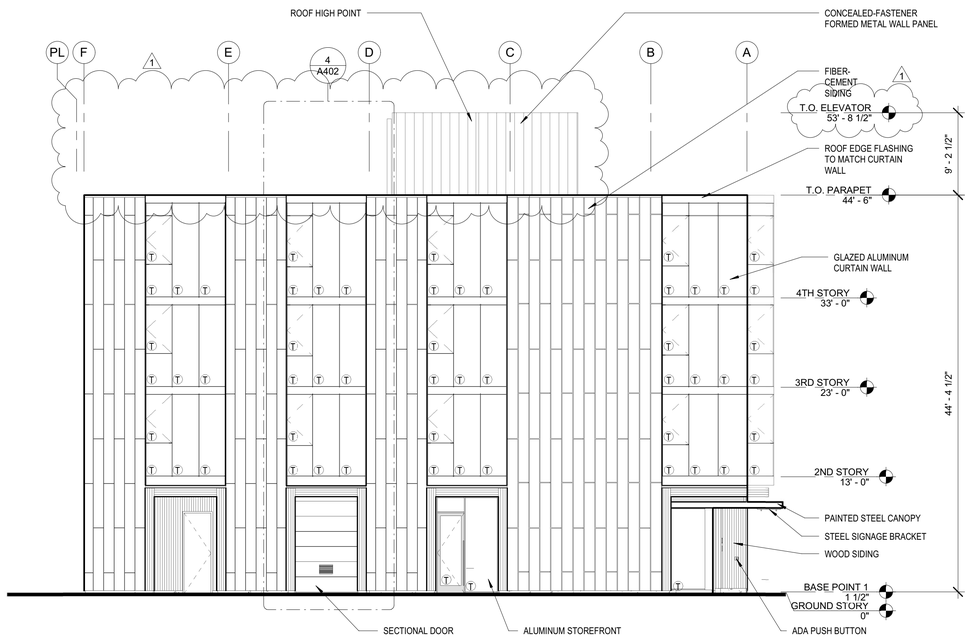
3 A200 SOUTHEAST ELEVATION, PHILADELPHIA AVE
1/8" = 1'-0"



1 A200 NORTHEAST ELEVATION, LOMBARD ST
1/8" = 1'-0"



4 A200 NORTHWEST ELEVATION
1/8" = 1'-0"



2 A200 SOUTHWEST ELEVATION, ALLEY
1/8" = 1'-0"

EXTERIOR MATERIAL SCHEDULE

MATERIAL	MANUFACTURER / PRODUCT	FINISH/COLOR
CONCEALED FASTENER METAL WALL PANEL	SEE SPECIFICATIONS	GREY
METAL COMPOSITE MATERIAL PANEL	SEE SPECIFICATIONS	BLACK
WOOD SIDING	SEE SPECIFICATIONS	CHARCOAL
FIBER CEMENT SIDING	SEE SPECIFICATIONS	PATINA 343
ALUMINUM STOREFRONT SYSTEM	SEE SPECIFICATIONS	BLACK
GLAZED ALUMINUM CURTAINWALL SYSTEM	SEE SPECIFICATIONS	BLACK

NOTE: CONTRACTOR SHALL PROVIDE MANUFACTURER'S FULL RANGE OF COLORS FOR FINAL COLOR SELECTION. SEE SPECIFICATIONS

ZONING COMPLIANCE PAGE - CASE FILE LU 17-113306 DZM:

C. METAL PANELS TO BE A MINIMUM OF 22 GAUGE FOR SPANS LESS THAN 12", AND A MINIMUM OF 20 GAUGE FOR SPANS OF 12" OR MORE. BACKED, COMPOSITE METAL PANEL IS AN APPROVABLE SUBSTITUTE AND MAY UTILIZE ANY GAUGE OF METAL.

D. ALL EXHAUST VENTS IN ENTRANCE BAYS MUST VENT ABOVE CANOPIES.

E. NO FIELD CHANGES ALLOWED

JONES

JONES ARCHITECTURE

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REVISIONS:

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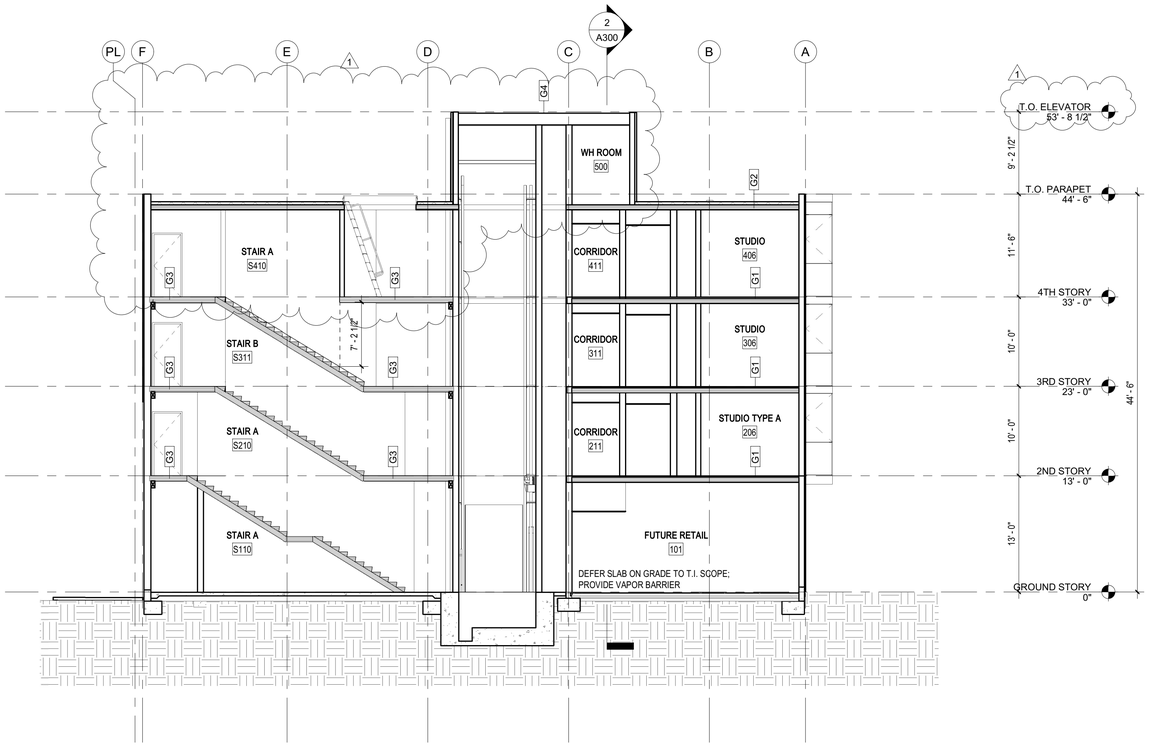
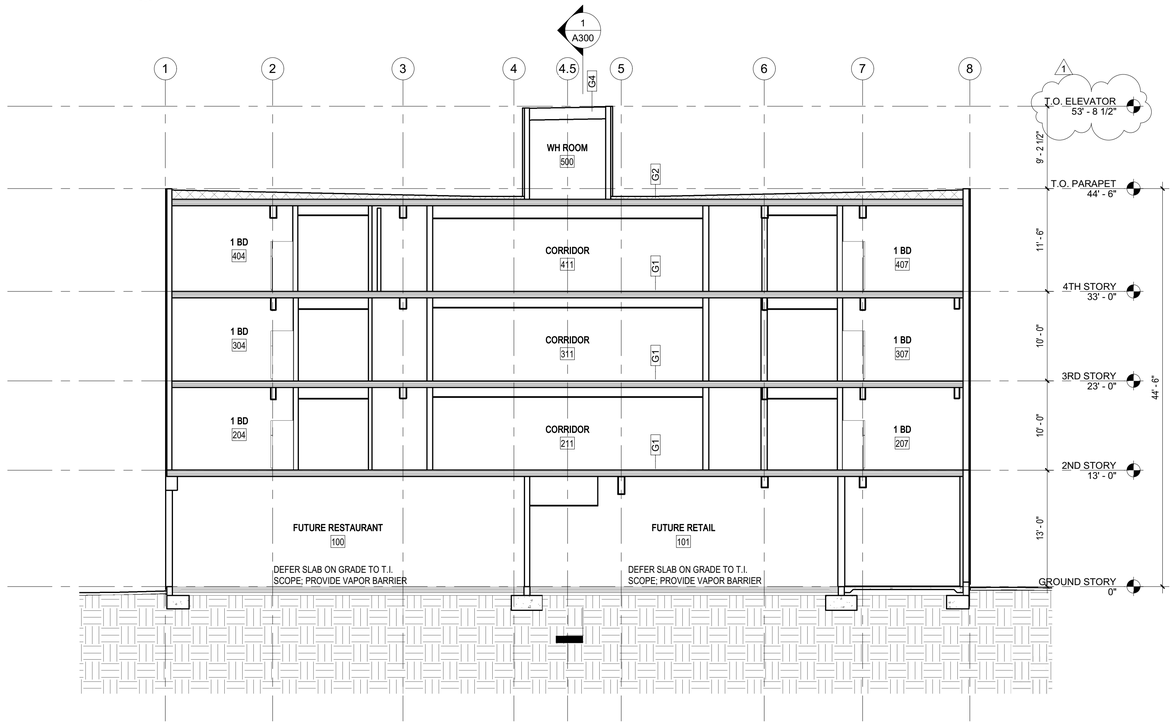
EXTERIOR ELEVATIONS

A200



1 A300 EAST WEST BUILDING SECTION

1/8" = 1'-0"



2 A300 NORTH SOUTH BUILDING SECTION

1/8" = 1'-0"

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BUILDING SECTIONS

A300

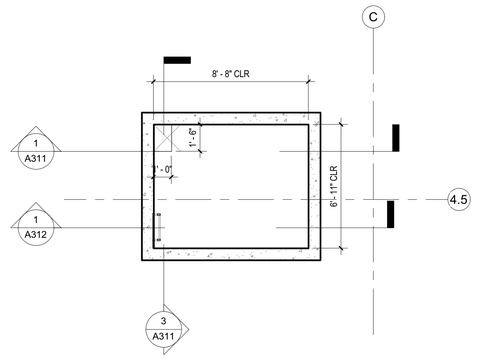
18-114385-000-REV 01-CO

STAIR SIGNAGE NOTES

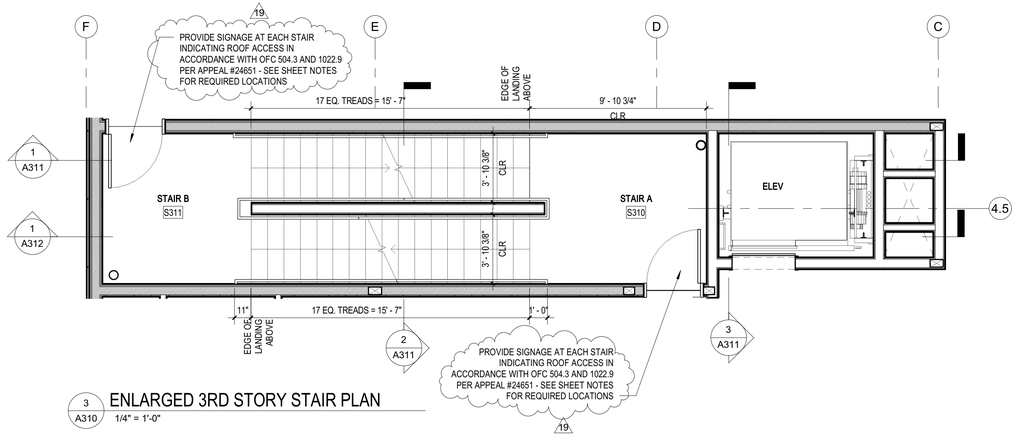
1. A SIGN SHALL BE PROVIDED AT EACH FLOOR LANDING, THE TERMINUS OF THE TOP AND BOTTOM OF THE STAIRWAY AND THE IDENTIFICATION OF THE STAIRWAY. 19

2. STAIR SIGNAGE SHALL BE IN ACCORDANCE WITH OSSC 1022.9 AND OFC 504.3.

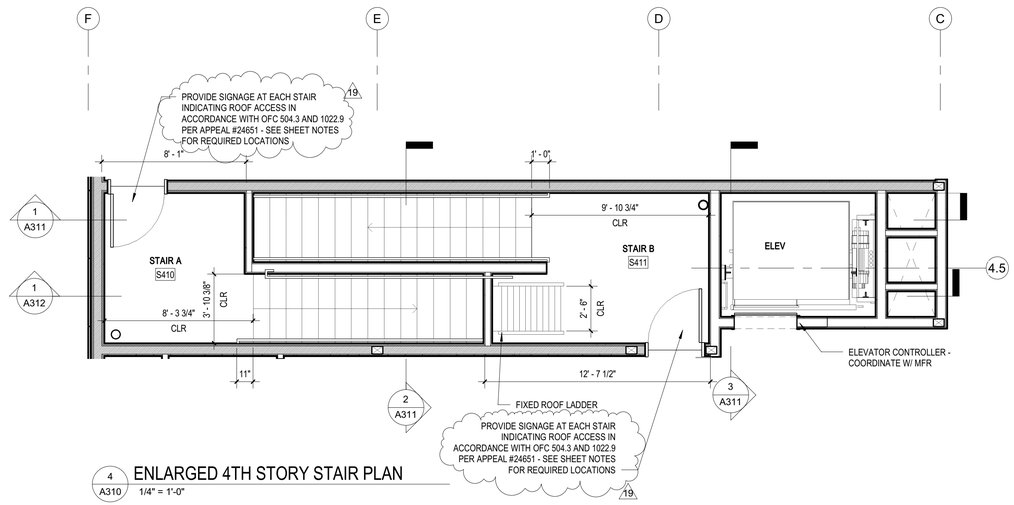
3. SEE G030 FOR ADDITIONAL SIGNAGE INFORMATION.



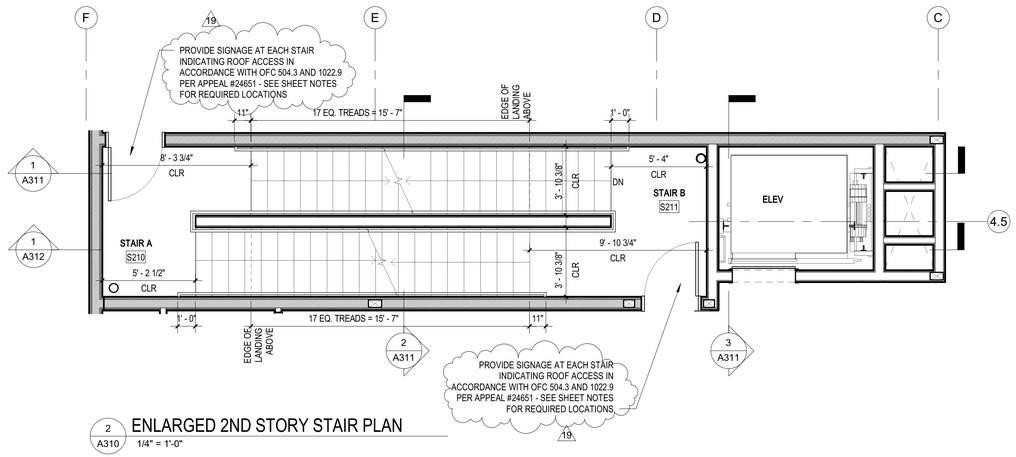
5 A310 ELEVATOR PIT PLAN
1/4" = 1'-0"



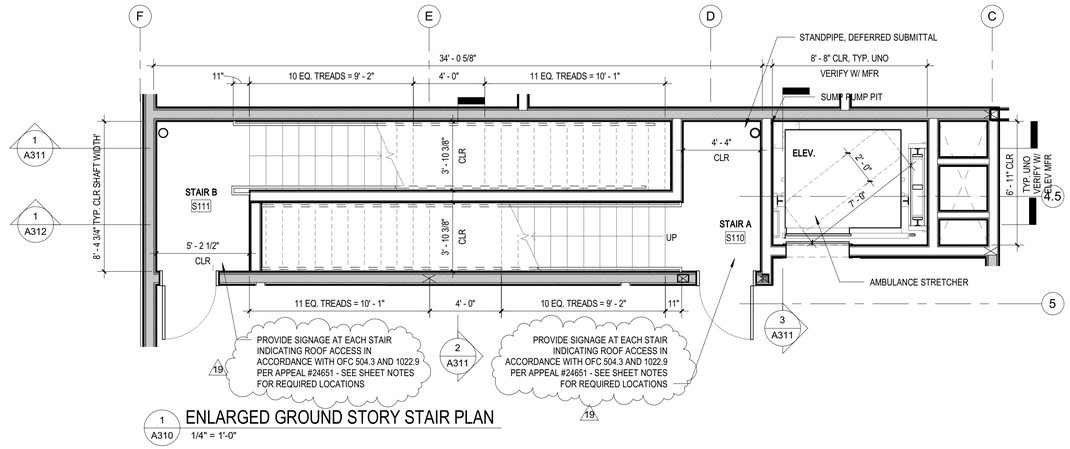
3 A310 ENLARGED 3RD STORY STAIR PLAN
1/4" = 1'-0"



4 A310 ENLARGED 4TH STORY STAIR PLAN
1/4" = 1'-0"



2 A310 ENLARGED 2ND STORY STAIR PLAN
1/4" = 1'-0"



1 A310 ENLARGED GROUND STORY STAIR PLAN
1/4" = 1'-0"

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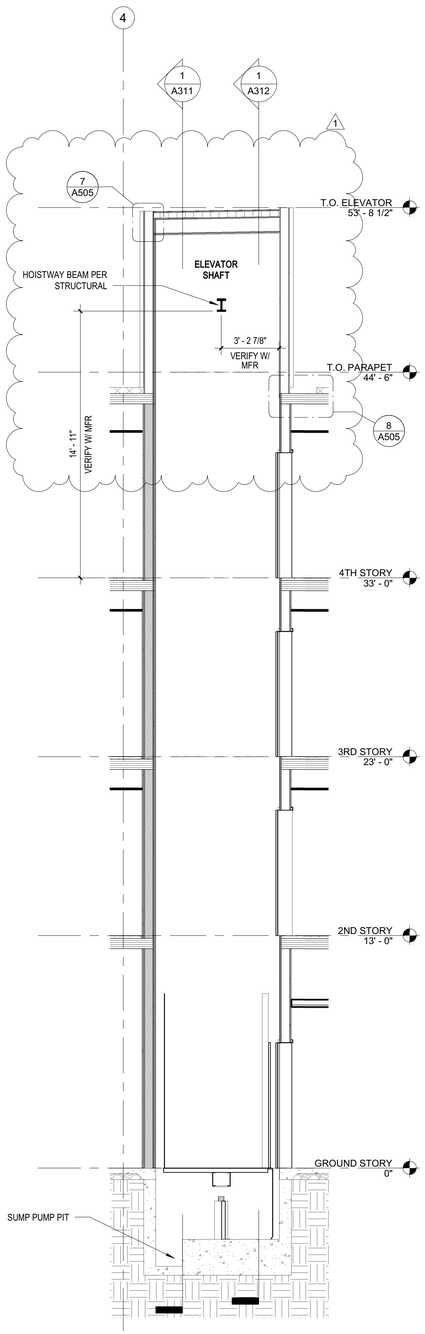
19	CHECKSHEET REVISIONS	4/22/21

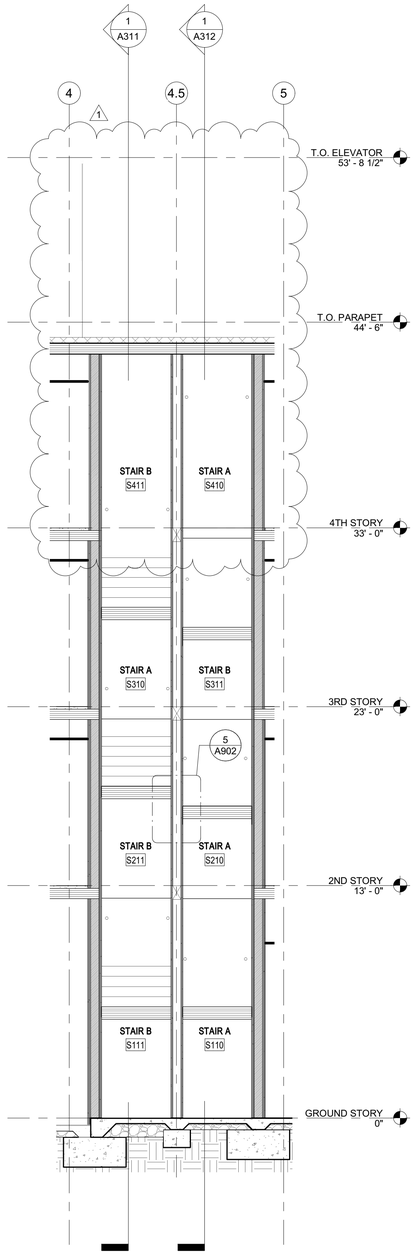
ENLARGED STAIR PLANS

A310

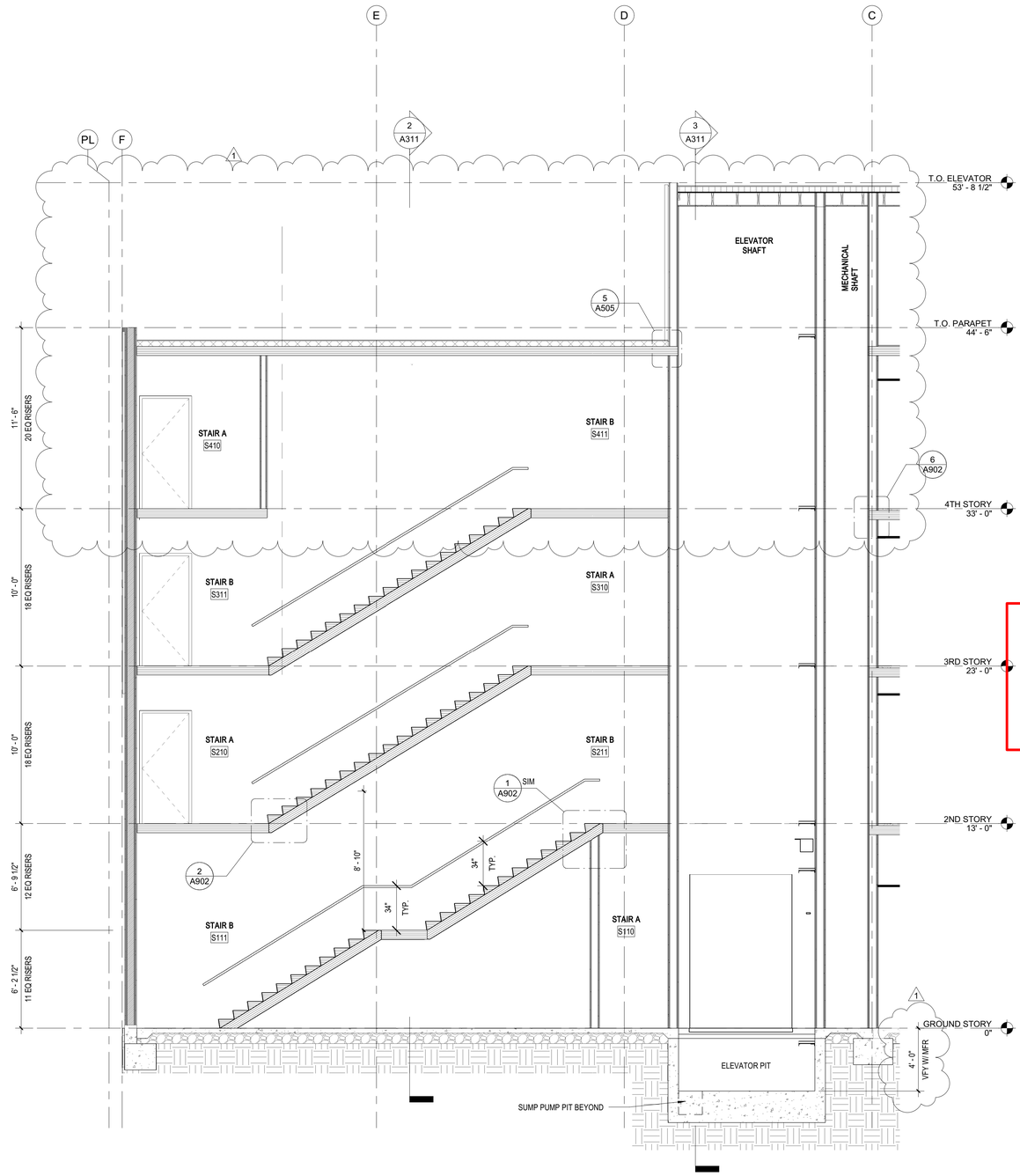
RECEIVED 4/23/21



3 A311 ELEVATOR SECTION
1/4" = 1'-0"



2 A311 EAST WEST STAIR SECTION
1/4" = 1'-0"



1 A311 TRANSVERSE STAIR SECTION 1
1/4" = 1'-0"

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STAIR SECTIONS

A311

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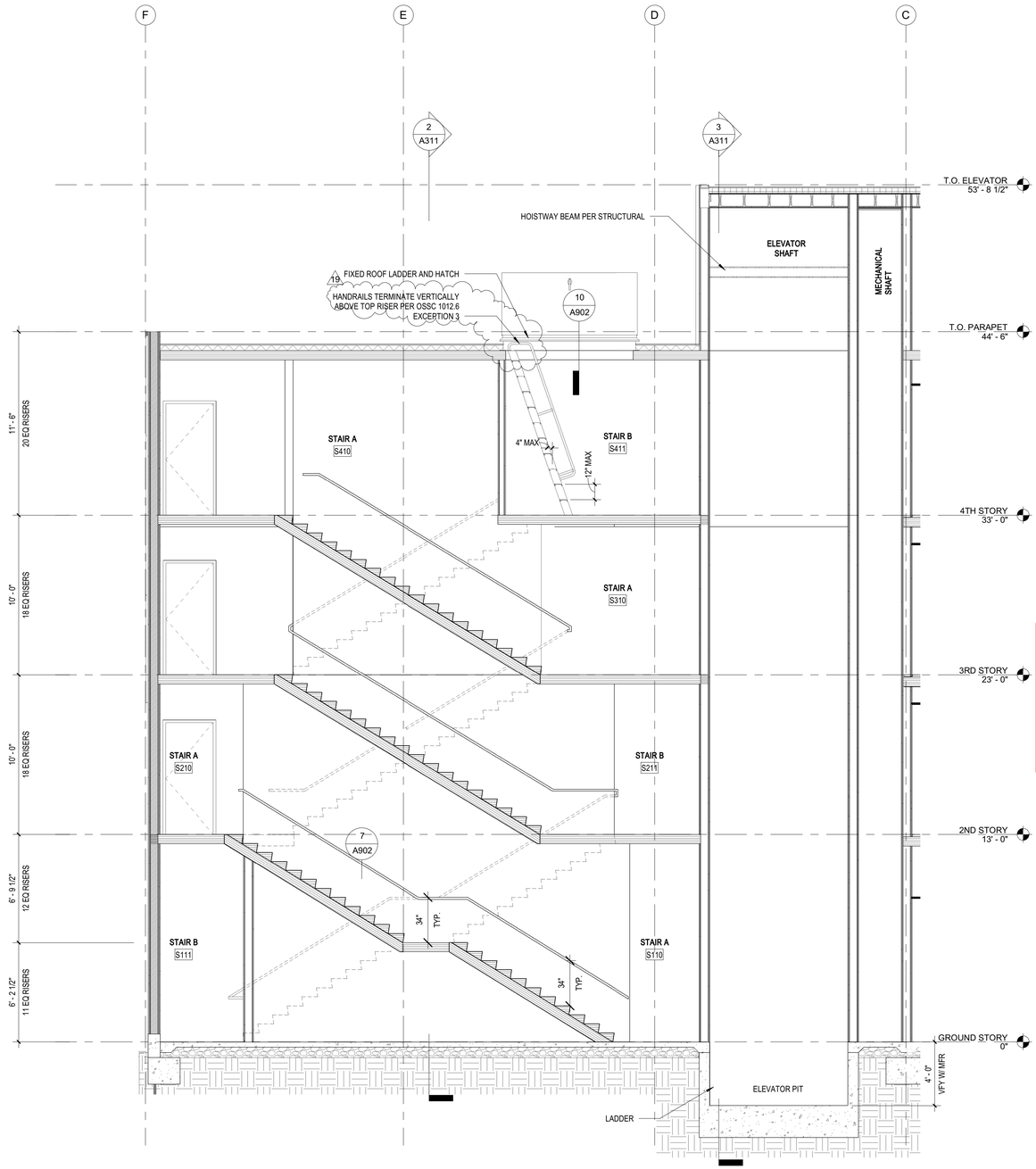

1 A312 STAIR SECTION B
1/4" = 1'-0"

JONES

JONES ARCHITECTURE

120 NW 9TH AVENUE, SUITE 210
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T 503 477 9165
jonesarc.com

CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

REGISTERED ARCHITECT
ALAN W. JONES
PORTLAND, OREGON
STATE OF OREGON

City of Portland

Reviewed for Code Compliance

Date: 06/04/21

Permit #: 18-114385-REV-01-CO

PERMIT REVISION

Issue Date: 2020-11-16

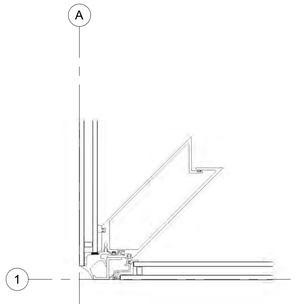
REVISIONS:

1	PERMIT REVISION	11/16/20
6	ASI #003	01/29/21
19	CHECKSHEET REVISIONS	4/22/21

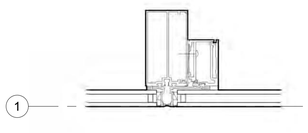
STAIR SECTIONS

A312

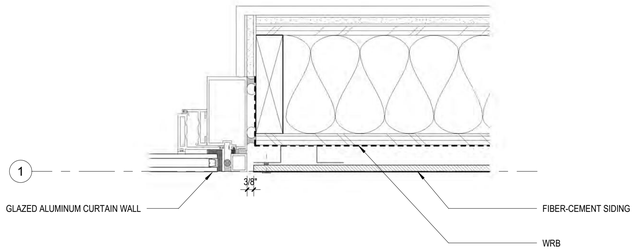
RECEIVED 4/23/21



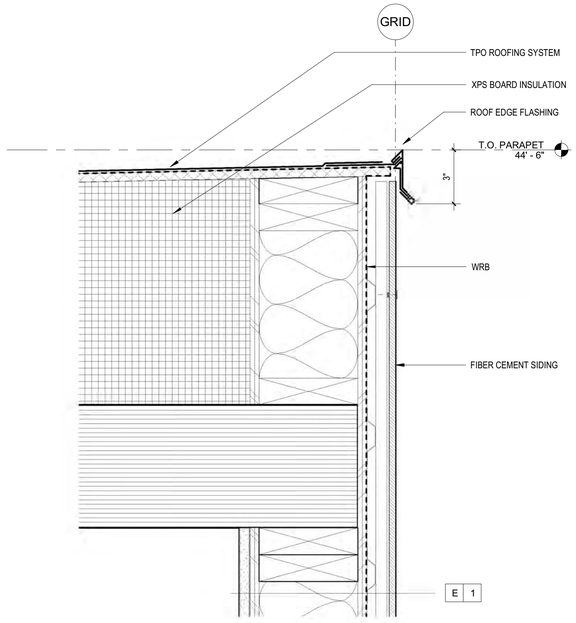
8 A501 CURTAIN WALL OUTSIDE CORNER
3" = 1'-0"



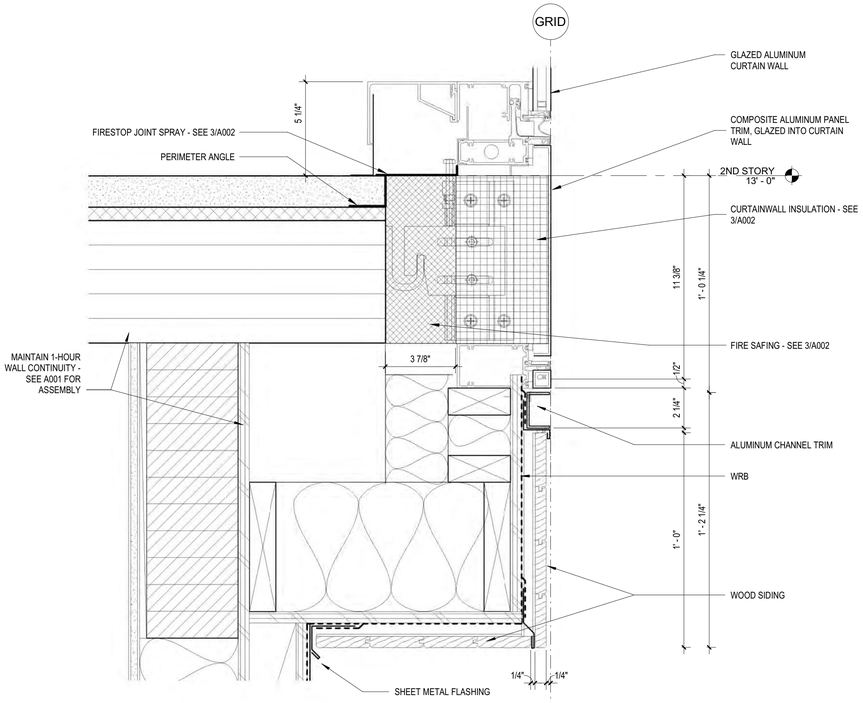
7 A501 VENTING WINDOW JAMB
3" = 1'-0"



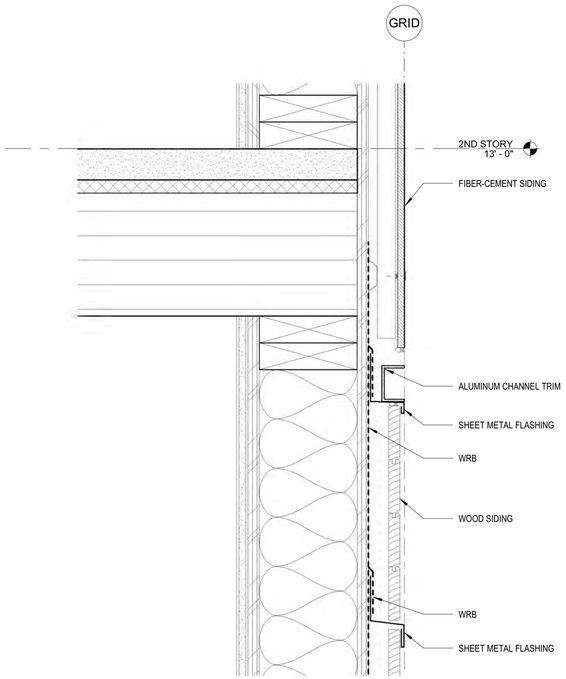
4 A501 FIBER-CEMENT SIDING AT CURTAIN WALL JAMB
3" = 1'-0"



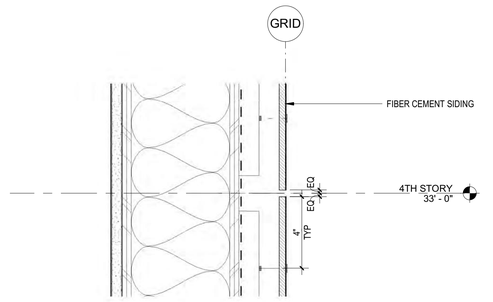
1 A501 FIBER CEMENT SIDING AT ROOF EDGE
3" = 1'-0"



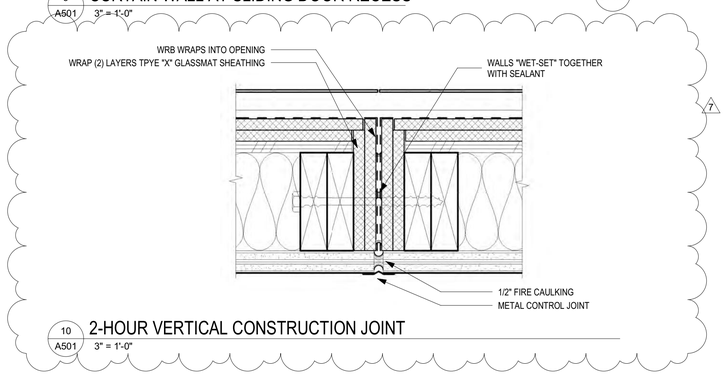
9 A501 CURTAIN WALL AT SLIDING DOOR RECESS
3" = 1'-0"



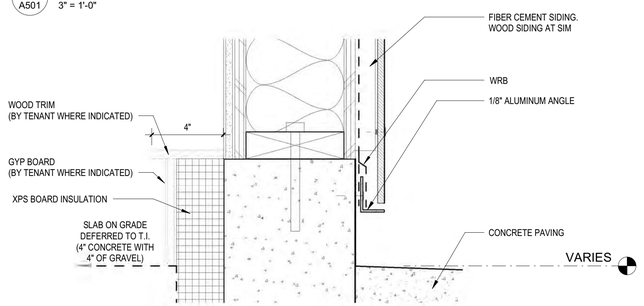
5 A501 SIDING MATERIAL TRANSITION
3" = 1'-0"



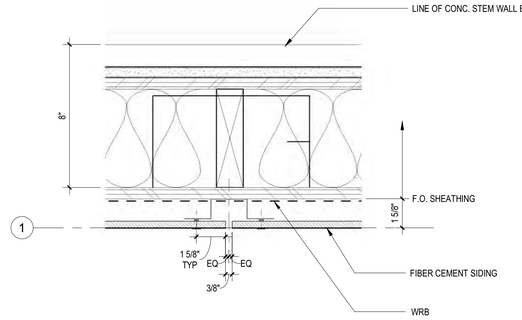
2 A501 FIBER CEMENT SIDING AT HORIZ. JOINT
3" = 1'-0"



10 A501 2-HOUR VERTICAL CONSTRUCTION JOINT
3" = 1'-0"



6 A501 CLADDING AT STEM WALL
3" = 1'-0"



3 A501 FIBER CEMENT SIDING AT VERT. JOINT
3" = 1'-0"

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City of Portland
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Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

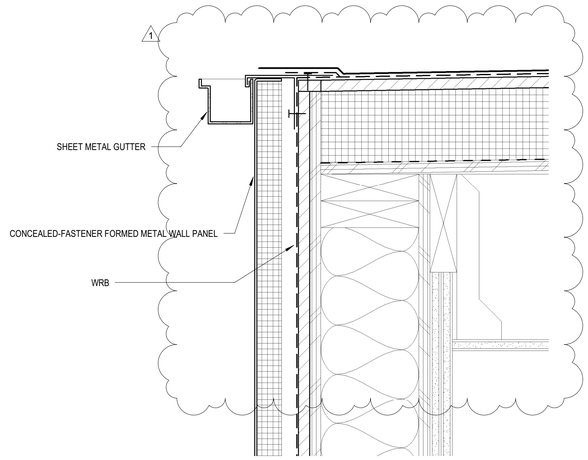
REVISIONS:

7	ASI #003 REV #01	02/18/21

EXTERIOR DETAILS, SIDING

A501

SUBMITTED 2/26/21

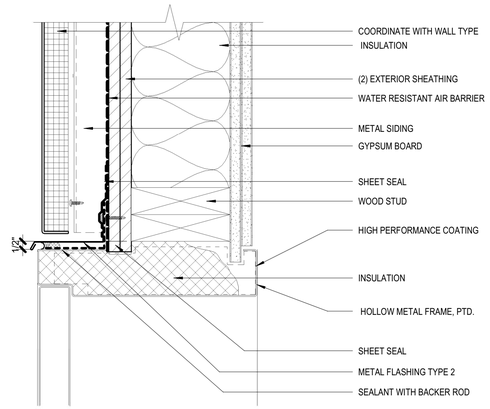


7 A505 ELEVATOR PENTHOUSE AT ROOF GUTTER
3" = 1'-0"

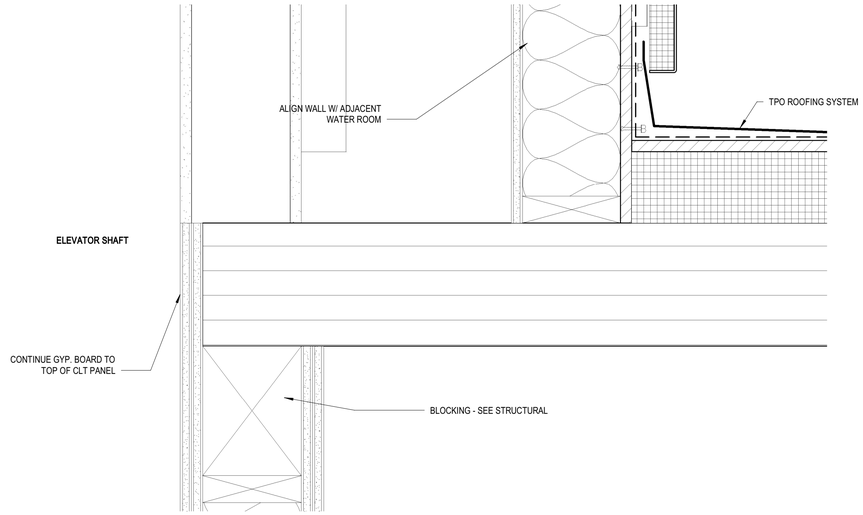
1

NOT USED

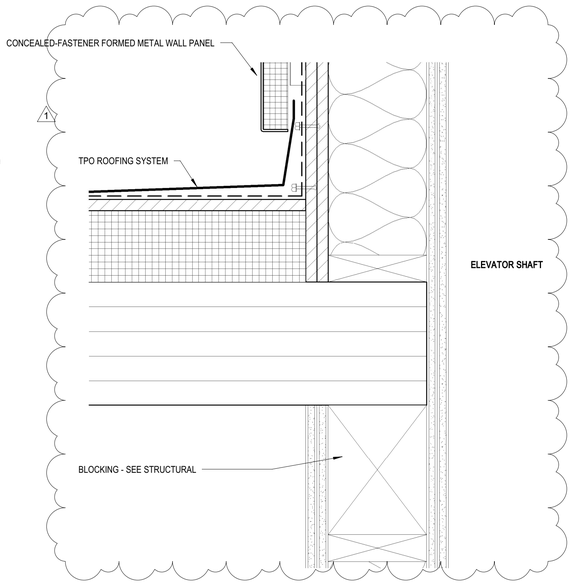
4 A505 NOT USED
3" = 1'-0"



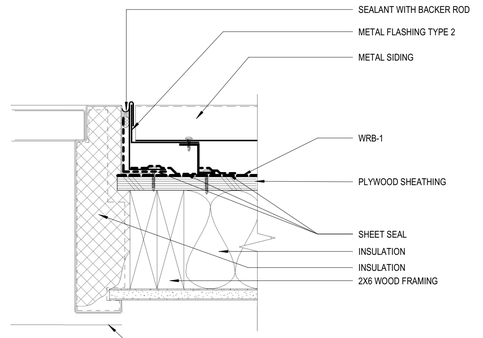
1 A505 DOOR HEAD DETAIL AT METAL SIDING
3" = 1'-0"



8 A505 ELEVATOR PENTHOUSE @ WALL JOG
3" = 1'-0"



5 A505 ELEVATOR PENTHOUSE AT CLT ROOF
3" = 1'-0"



2 A505 DOOR JAMB DETAIL AT METAL SIDING
3" = 1'-0"

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CENTRAL LOFTS

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City of Portland
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PERMIT REVISION

Issue Date: 2020-11-16

REVISIONS:

1	PERMIT REVISION	11/16/20

EXTERIOR DETAILS, ROOF

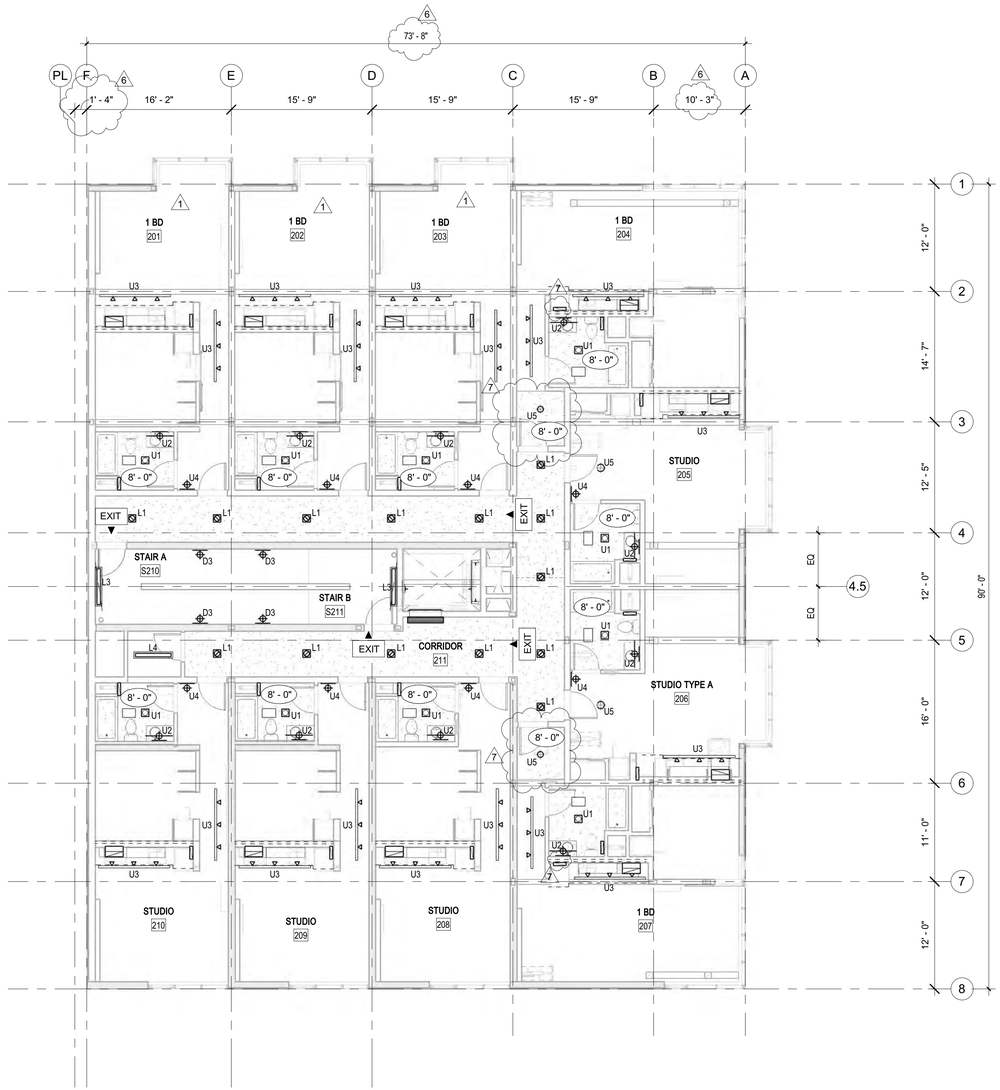
A505

REFLECTED CEILING PLAN LEGEND

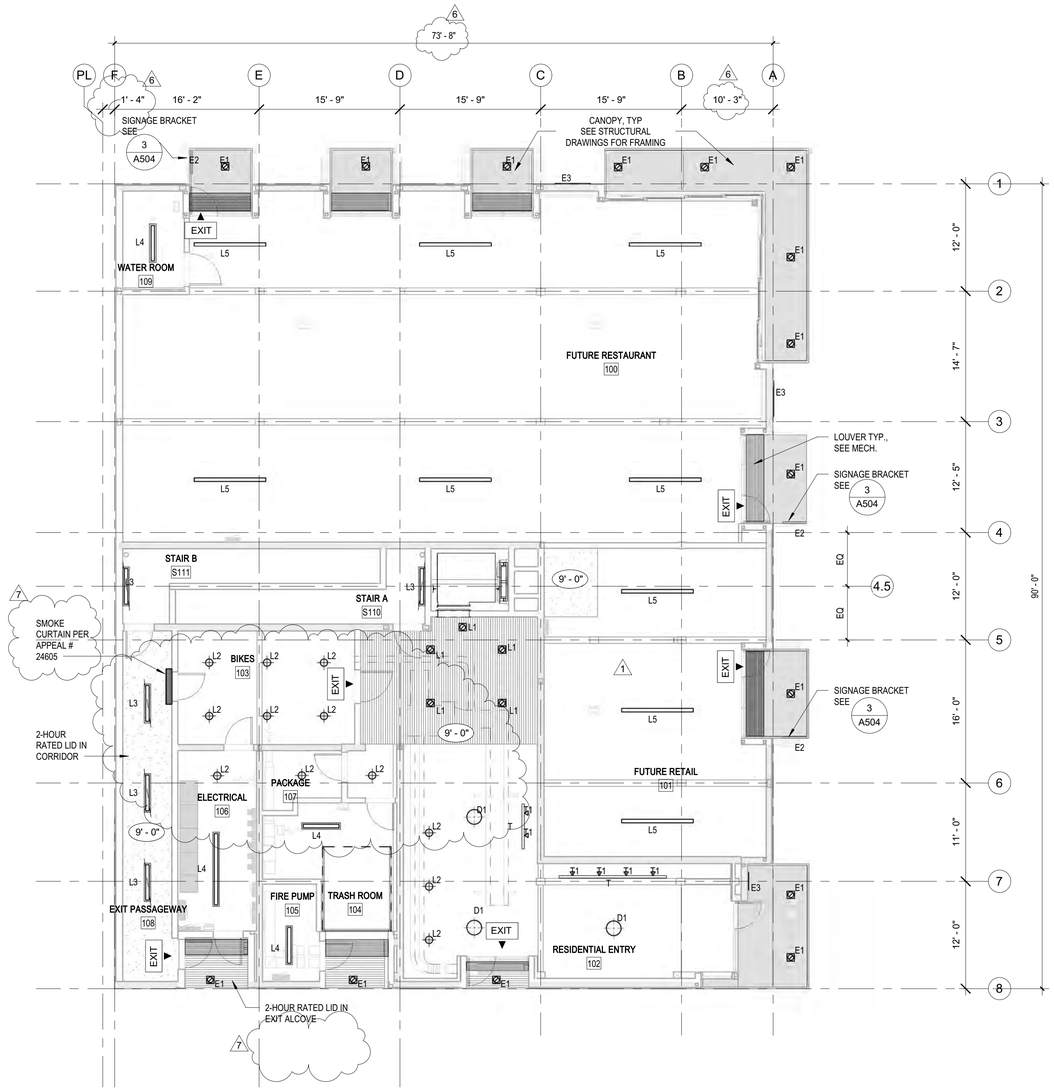
- GYP BOARD
- EXPOSED TO STRUCTURE
- MECHANICAL LOUVER
- WOOD SOFFIT
- METAL COMPOSITE PANEL SOFFIT
- TEMP. EGRESS LIGHT FIXTURE (L5)
- LED LIGHT SNAP FIXTURE (L3)
- LED LIGHT FIXTURE (L4)
- VANITY BAR LIGHT FIXTURE (U2)
- SURFACE MOUNT LIGHT FIXTURE (L2/U5)
- RECESSED CAN LIGHT FIXTURE (E1/L1/U1)
- DECORATIVE PENDANT FIXTURE (D1/D2)
- TRACK LIGHT FIXTURE (T/T1/U3)
- SCONCE LIGHT FIXTURE (D3/U4)
- EXIT SIGN
- WALL MOUNT FAN
- KITCHEN HOOD
- SMOKE CURTAIN

SHEET NOTES

1. ALL CEILING SURFACES ARE EXPOSED TO STRUCTURE, U.N.O.
2. SEE LIGHTING PLANS FOR LIGHT FIXTURE LAYOUT. SEE SPECIFICATIONS FOR LIGHT FIXTURE TYPES.
3. ALL EXPOSED PIPING, DUCTWORK AND CONDUIT TO BE PAINTED.



2 A700 SECOND STORY - RCP
1/8" = 1'-0"



1 A700 GROUND STORY - RCP
1/8" = 1'-0"

ZONING COMPLIANCE PAGE - CASE FILE LU 17-113306 DZM:

C. METAL PANELS TO BE A MINIMUM OF 22 GAUGE FOR SPANS LESS THAN 12", AND A MINIMUM OF 20 GAUGE FOR SPANS OF 12" OR MORE. BACKED, COMPOSITE METAL PANEL IS AN APPROVABLE SUBSTITUTE AND MAY UTILIZE ANY GAUGE OF METAL.

D. ALL EXHAUST VENTS IN ENTRANCE BAYS MUST VENT ABOVE CANOPIES.

E. NO FIELD CHANGES ALLOWED

JONES

JONES ARCHITECTURE

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CENTRAL LOFTS

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PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	PERMIT REVISION	11/16/20
6	ASI #003	01/29/21
7	ASI #003 REV #01	02/18/21

REFLECTED CEILING PLANS

A700

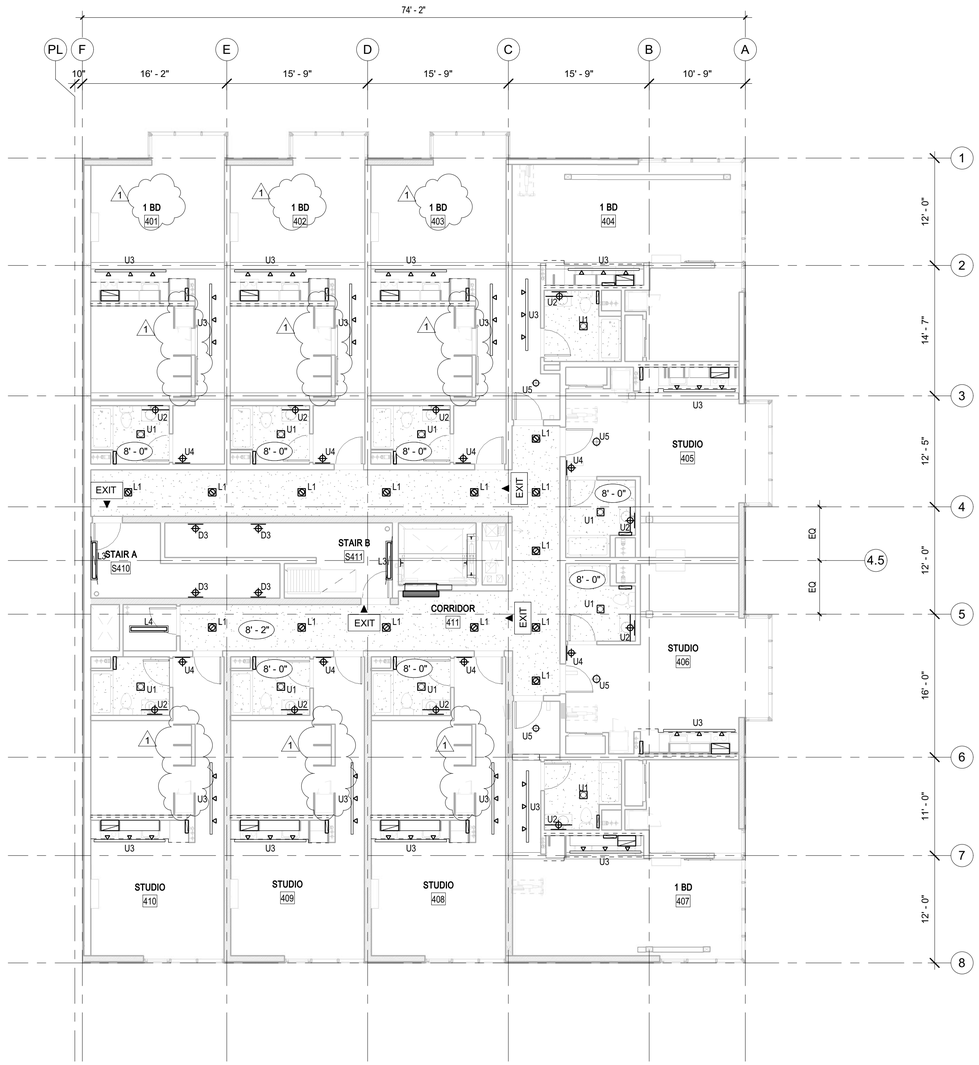
SUBMITTED 2/26/21

REFLECTED CEILING PLAN LEGEND

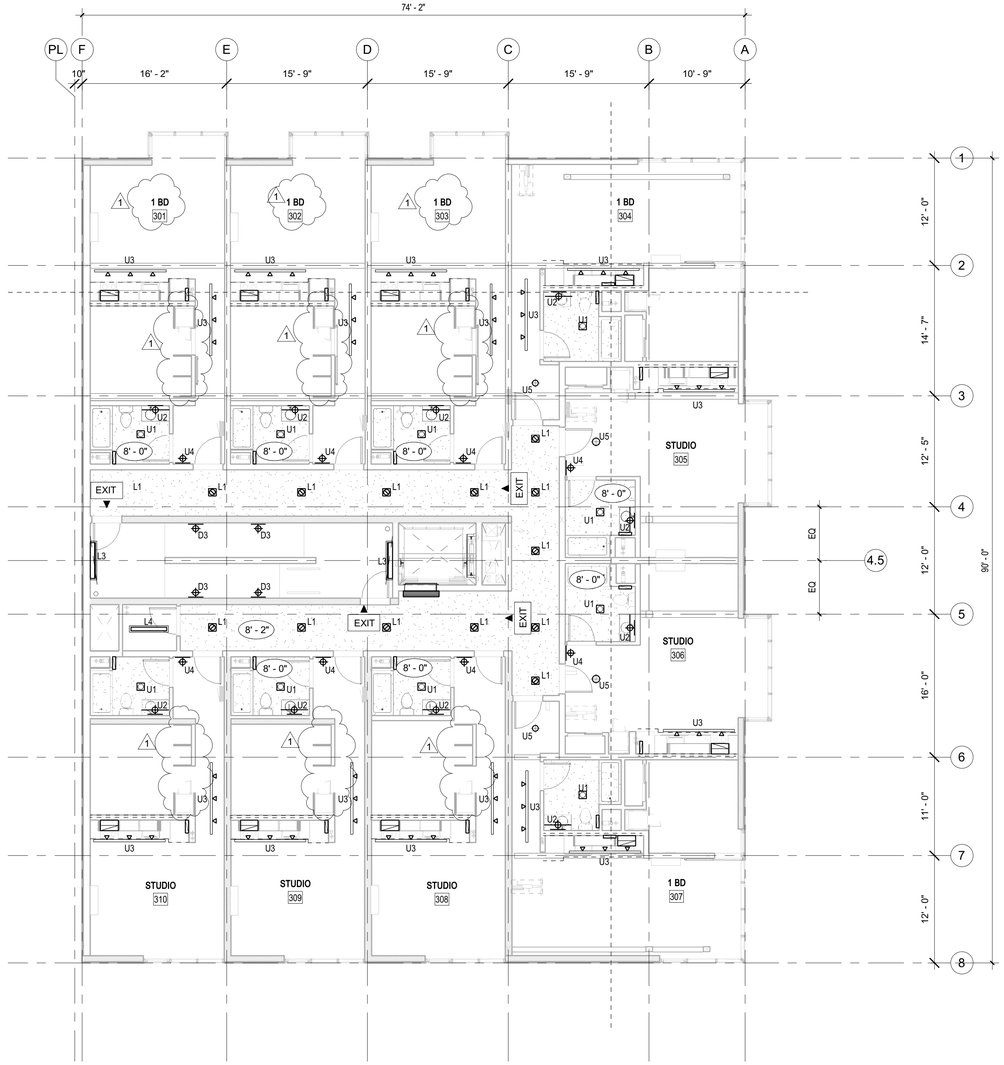
- GYP BOARD
- EXPOSED TO STRUCTURE
- MECHANICAL LOUVER
- WOOD SOFFIT
- METAL COMPOSITE PANEL SOFFIT
- TEMP. EGRESS LIGHT FIXTURE (L5)
- LED LIGHT SNAP FIXTURE (L3)
- LED LIGHT FIXTURE (L4)
- VANITY BAR LIGHT FIXTURE (U2)
- SURFACE MOUNT LIGHT FIXTURE (L2/U5)
- RECESSED CAN LIGHT FIXTURE (E1/L1/U1)
- DECORATIVE PENDANT FIXTURE (D1/D2)
- TRACK LIGHT FIXTURE (T/T1/U3)
- SCONCE LIGHT FIXTURE (D3/U4)
- EXIT SIGN
- WALL MOUNT FAN
- KITCHEN HOOD
- SMOKE CURTAIN

SHEET NOTES

1. ALL CEILING SURFACES ARE EXPOSED TO STRUCTURE, U.N.O.
2. SEE LIGHTING PLANS FOR LIGHT FIXTURE LAYOUT. SEE SPECIFICATIONS FOR LIGHT FIXTURE TYPES.
3. ALL EXPOSED PIPING, DUCTWORK AND CONDUIT TO BE PAINTED.



2 A701 4TH STORY
1/8" = 1'-0"



1 A701 3RD STORY
1/8" = 1'-0"

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PERMIT REVISION

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REVISIONS:

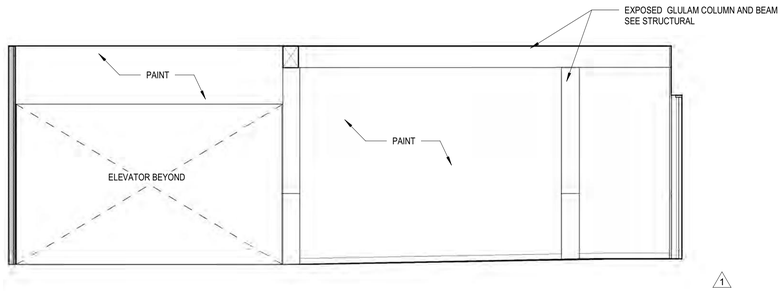
1	PERMIT REVISION	11/16/20

REFLECTED CEILING PLANS

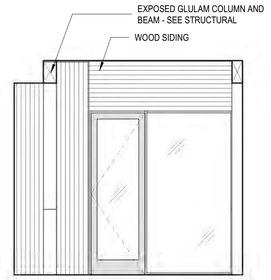
A701

SHEET NOTES

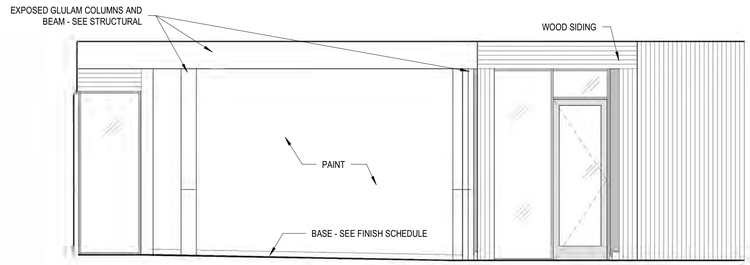
1. EXTENT OF INTERIOR FINISHES IN COMMON SPACES TBD. PROVIDE AN ALLOWANCE FOR FINISHES IN COMMON SPACES.



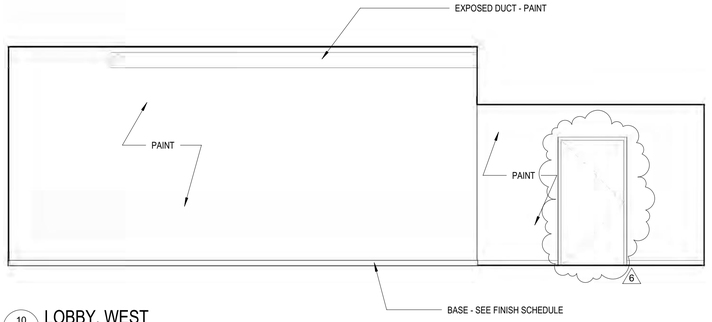
9 A800 ENTRY, NORTH
1/4" = 1'-0"



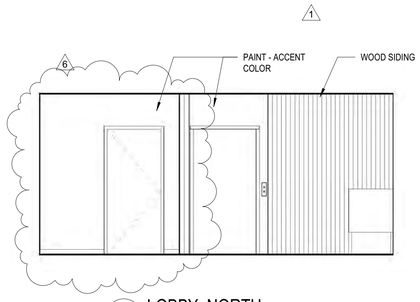
5 A800 ENTRY, EAST
1/4" = 1'-0"



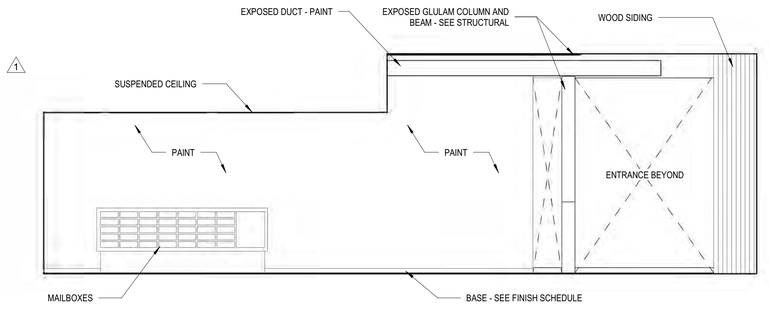
1 A800 ENTRY, SOUTH
1/4" = 1'-0"



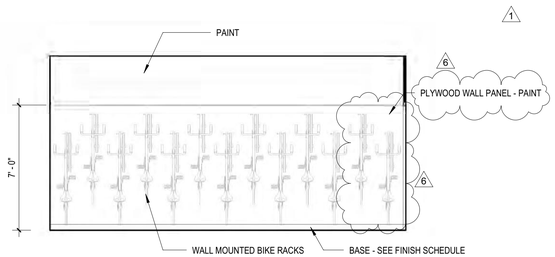
10 A800 LOBBY, WEST
1/4" = 1'-0"



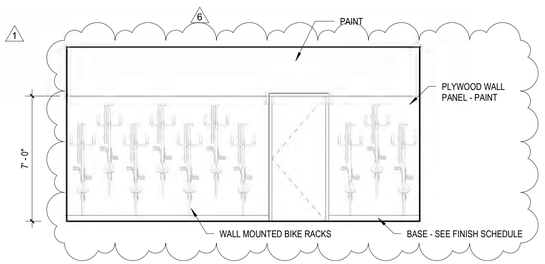
6 A800 LOBBY, NORTH
1/4" = 1'-0"



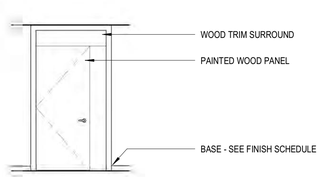
2 A800 LOBBY, EAST
1/4" = 1'-0"



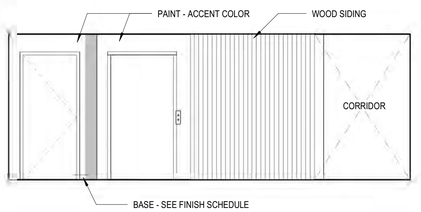
11 A800 BIKES, NORTH
1/4" = 1'-0"



3 A800 BIKES, SOUTH
1/4" = 1'-0"



8 A800 TYPICAL UNIT DOOR ELEVATION - CORRIDOR SIDE
1/4" = 1'-0"



4 A800 2ND - 4TH STORY ELEVATOR ELEVATION
1/4" = 1'-0"

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PERMIT SET

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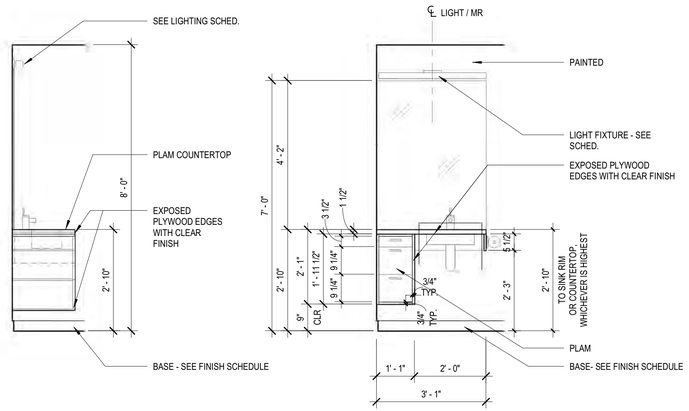
REVISIONS:

1	PERMIT REVISION	11/16/20
6	ASI #003	01/29/21

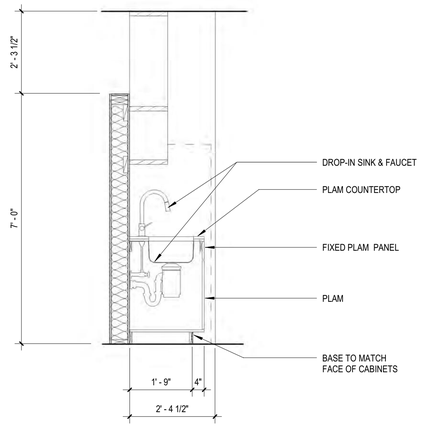
INTERIOR LOBBY AND CORRIDOR ELEVATIONS

A800

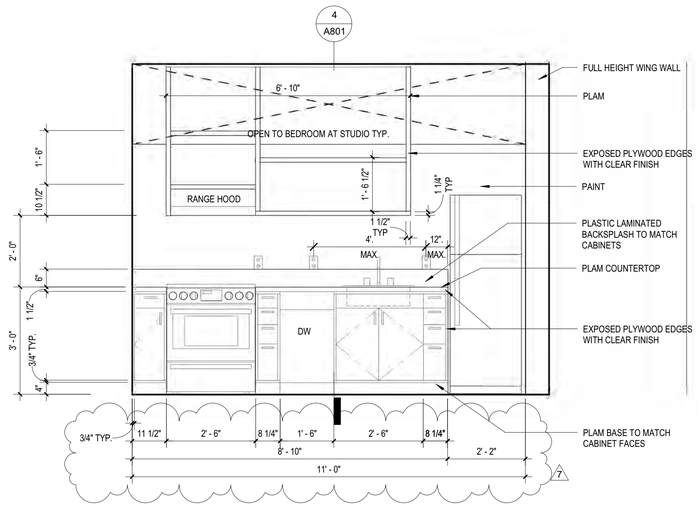
SUBMITTED 2/26/21



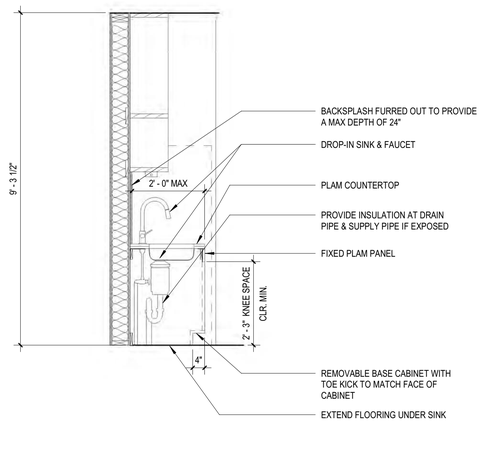
7 A801 ANSI A / B VANITY - SECTION/ELEVATION
1/2" = 1'-0"



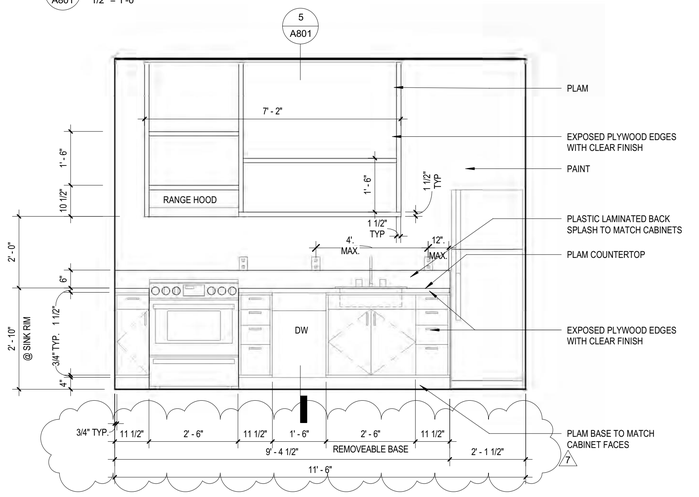
4 A801 KITCHEN SECTION - TYPE B KITCHEN
1/2" = 1'-0"



1 A801 KITCHEN ELEVATION - TYPICAL STUDIO
1/2" = 1'-0"

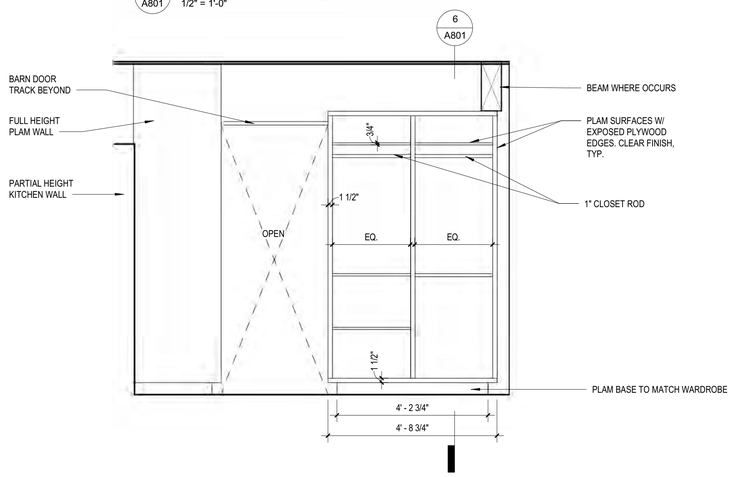


5 A801 KITCHEN SECTION - TYPE A UNIT
1/2" = 1'-0"

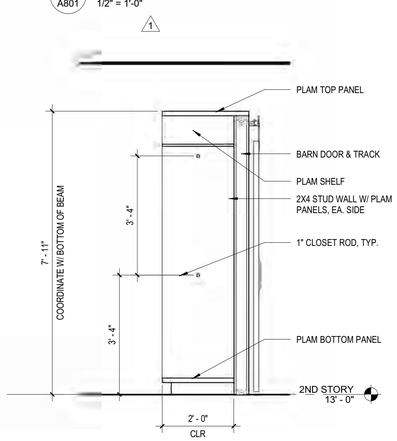


2 A801 KITCHEN ELEVATION - TYPE A UNIT
1/2" = 1'-0"

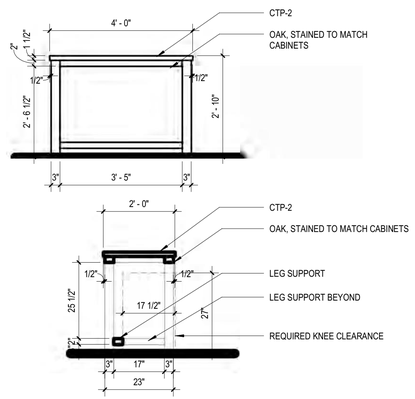
8 A801 NOT USED
1/2" = 1'-0"



9 A801 STUDIO WARDROBE ELEVATION
1/2" = 1'-0"



6 A801 STUDIO WARDROBE - SECTION
1/2" = 1'-0"



3 A801 TYPE "A" ISLAND ELEVATION AND SECTION
1/2" = 1'-0"

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CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

REGISTERED ARCHITECT
ALAN W. JONES
PORTLAND, OREGON
STATE OF OREGON

City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	PERMIT REVISION	11/16/20
7	ASI #003 REV #01	02/18/21

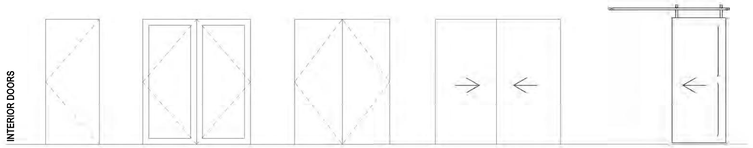
INTERIOR KITCHEN AND BATH ELEVATIONS

A801

SUBMITTED 2/26/21

DOOR TYPES

INTERIOR DOORS



FS1 SINGLE FLUSH DOOR STANDARD

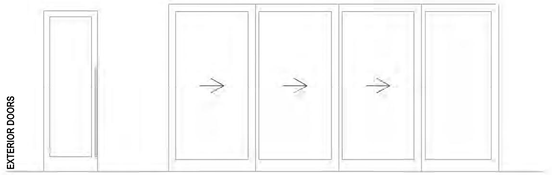
FD1 DOUBLE FLUSH DOOR FULL LITE

FD2 DOUBLE FLUSH DOOR STANDARD

BP1 BYPASS DOOR

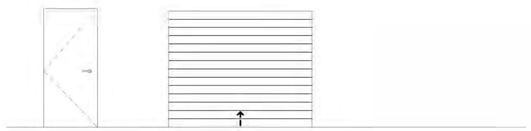
SL2 SLIDING BARN DOOR

EXTERIOR DOORS



SF1 SINGLE STOREFRONT DOOR FRAME WITH GLAZING

SL1 SLIDING ALUMINUM-FRAMED GLASS DOOR



FS2 SINGLE FLUSH DOOR STANDARD

OS1 OVERHEAD SECTIONAL DOOR

FRAME TYPES

FS1 SINGLE FLUSH DOOR STANDARD

FD2 DOUBLE FLUSH DOOR STANDARD

DOOR SCHEDULE GENERAL NOTES

1. SEE SPECIFICATIONS FOR GLAZING TYPE
2. ALL FIRE / SMOKE DOORS TO BE SELF CLOSING & LATCHING
3. ALL DOORS SHALL OPERATE FREELY IN THE DIRECTION OF EGRESS WITHOUT THE USE OF A KEY OR SPECIAL EFFORT OR KNOWLEDGE.
4. LATCHES ON UNIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR TOOL.
5. ALL UNIT ENTRY DOORS SHALL PROVIDE A CLEAR OPENING WIDTH OF 32". SEE SHEETS G022-G025.
6. DOORS TO ROOMS CONTAINING FIRE PROTECTION EQUIPMENT SHALL BE IDENTIFIED WITH SIGNS. SIGNS SHALL BE CONSTRUCTED OF DURABLE MATERIALS AND BE PERMANENTLY INSTALLED AND READILY VISIBLE.
7. PROVIDE 1' X 1' LOUVER IN DOOR. FINISH TO MATCH DOOR. CONTRACTOR TO COORDINATE WITH MECHANICAL REQUIREMENTS. BASIS OF DESIGN: RUSKIN "ELF 15J THINLINE STATIONARY LOUVER"
8. PROVIDE 1' X 1'-6" LOUVER IN DOOR. FINISH TO MATCH DOOR. CONTRACTOR TO COORDINATE WITH MECHANICAL REQUIREMENTS. BASIS OF DESIGN: RUSKIN "ELF 15J THINLINE STATIONARY LOUVER"
9. ALL EXTERIOR DOORS ON GROUND STORY TO BE FINISHED TO MATCH ALUMINUM STOREFRONT

DOOR SCHEDULE ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED

MFR	MANUFACTURER SUPPLIED
AL	ALUMINUM
ALC	ALUMINUM CLAD WOOD DOOR
STL	STEEL
HM	HOLLOW METAL FRAME
KD	KNOCKDOWN FRAME
WD	WOOD
FG	FIBERGLASS
GL-1	INSULATED GLASS, SEE SPECIFICATIONS
GL-2	MIRROR GLASS, SEE SPECIFCATIONS
GL-3	FIRE-RATED GLAZING
P	PAINT
PF	PREFINISHED
TS	TRANSPARENT FINISH
PF	PRE FINISHED
S	SMOKE & DRAFT CONTROL PER UL1784
BK	BRICK
FC	FIBER CEMENT

INTERIOR DOOR SCHEDULE

NUMBER	ROOM	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	FIRE RATING	HARDWARE	NOTES
103A	BIKES	3' - 6"	7' - 0"	FS1	STL	P-	FS1	STL	P-				15	
103B	BIKES	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	19	SMOKE CURTAIN PER APPEAL #24605
103C	BIKES	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	20	
104	TRASH ROOM	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	05	
107	PACKAGE	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-				05	
109	WATER ROOM	3' - 6"	7' - 0"	FS1	STL	P-	FS1	STL	P-				04	SEE GEN. NOTE 6
201A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
201B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
201C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
202A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
202B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
202C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
203A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
203B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
203C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
204A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
204B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
204C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
204D	1 BD	4' - 0"	7' - 0"	BP1	WD	P-	FD2	WD	P-				17	
205A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
205B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
205C	STUDIO	3' - 2"	7' - 0"	BP1	WD	P-	FS2	WD	P-				17	
206A	STUDIO TYPE A	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
206B	STUDIO TYPE A	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
206C	STUDIO TYPE A	3' - 2"	7' - 0"	BP1	WD	P-	FS2	WD	P-				17	
207A	CORRIDOR	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
207B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
207C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
208A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
208B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
209A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
209B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
210A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
1 210B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
220	UTILITY	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	03	
301A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
301B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
301C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
302A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
302B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
302C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
303A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
303B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
303C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
304A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
304B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
304C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
304D	1 BD	4' - 0"	7' - 0"	BP1	WD	P-	FD2	WD	P-				17	
304I	1 BD	4' - 0"	7' - 0"	BP1	WD	P-	FD2	WD	P-				17	
305A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
305B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
305C	STUDIO	3' - 2"	7' - 0"	BP1	WD	P-	FS2	WD	P-				17	
306A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
306B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
306C	STUDIO	3' - 2"	7' - 0"	BP1	WD	P-	FS2	WD	P-				17	
307A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
307B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
307C	1 BD	4' - 0"	7' - 0"	BP1	WD	P-	FD2	WD	P-				17	
307D	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
308A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
308B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
309A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
309B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
310A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
310B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
320	UTILITY	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	03	
401A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	01	
401B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
401C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
402A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	01	
402B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
402C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
403A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
403B	1 BD	2' - 11"	7' - 0"	FS1	STL	P-	FS1	WD	P-				02	
403C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
404A	1 BD	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
404B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
404C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
404D	1 BD	4' - 0"	7' - 0"	BP1	WD	P-	FD2	WD	P-				17	
405A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
405B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
405C	STUDIO	3' - 2"	7' - 0"	BP1	WD	P-	FS2	WD	P-				17	
406A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
406B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
406C	STUDIO	3' - 2"	7' - 0"	BP1	WD	P-	FS2	WD	P-				17	
407A	CORRIDOR	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
407B	1 BD	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
407C	1 BD	3' - 0"	7' - 0"	SL2	WD	P-	FS1						16	
407D	1 BD	4' - 0"	7' - 0"	BP1	WD	P-	FD2	WD	P-				17	
407F		3' - 6"	7' - 0"									90 MIN		
408A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
408B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
409A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
409B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
410A	STUDIO	3' - 0"	7' - 0"	FS1	STL	P-	FS1	KD	P-			20 MIN	01	
410B	STUDIO	2' - 11"	7' - 0"	FS1	WD	P-	FS1	WD	P-				02	
420	UTILITY	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			20 MIN	03	
S110	STAIR A	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	07	
S111	STAIR B	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	07	
S210	STAIR A	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	08	
S211	STAIR B	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	08	
S310	STAIR A	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	08	
S311	STAIR B	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	08	
S410	STAIR A	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	08	
S411	STAIR B	3' - 0"	7' - 0"	FS1	STL	P-	FS1	STL	P-			90 MIN	08	

EXTERIOR DOOR SCHEDULE

NUMBER	ROOM	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	FIRE RATING	HARDWARE	NOTES
100A	FUTURE RESTAURANT	3' - 0"	9' - 11 1/2"	SF1	AL	PF		AL	PF				11	SEE GEN. NOTE 9
6 100B	FUTURE RESTAURANT	3' - 0"	9' - 5 1/2"	SF1	AL	PF		AL	PF				18	SEE GEN. NOTE 9
100C	FUTURE RESTAURANT	17' - 7 1/4"	9' - 10 1/16"	SL1	AL	PF		AL	PF				BY MFR	SEE GEN. NOTE 9
100D	FUTURE RESTAURANT	18' - 7 3/4"	9' - 10 1/16"	SL1	AL	PF		AL	PF				BY MFR	SEE GEN. NOTE 9
101	FUTURE RETAIL	3' - 0"	9' - 5 1/2"	SF1	AL	PF		AL	PF				11	SEE GEN. NOTE 9
102A	RESIDENTIAL ENTRY	3' - 0"	9' - 0 1/2"	SF1	AL	PF		AL	PF				10	SEE GEN. NOTE 9
102B	RESIDENTIAL ENTRY	3' - 0"	9' - 0 1/2"	SF1	AL	PF		AL	PF				10	SEE GEN. NOTE 9
104B	TRASH ROOM	0"	0"	OS1	STL	P-		STL	P-				BY MFR	SEE GEN. NOTE 8, 9
105	FIRE PUMP	3' - 0"	9' - 0"	FS1	STL	P-	FS1	STL	P-				12	SEE GEN. NOTE 6, 7, 9
106	ELECTRICAL	3' - 0"	9' - 0"		STL	P-		STL	P-			90 MIN	09 7	SEE GEN. NOTE 6, 9
108	EXIT PASSAGEWAY	3' - 0"	9' - 0"	FS1	STL	P-	FS1	STL	P-				09	SEE GEN. NOTE 9
500	WH ROOM	3' - 6"	7' - 0"	FS1	STL	P-	FS1	STL	P-				13	

JONES

JONES ARCHITECTURE

120 NW 9TH AVENUE, SUITE 210
PORTLAND, OR 97209
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CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

REGISTERED ARCHITECT · ALAN W. JONES · PORTLAND, OREGON · STATE OF OREGON

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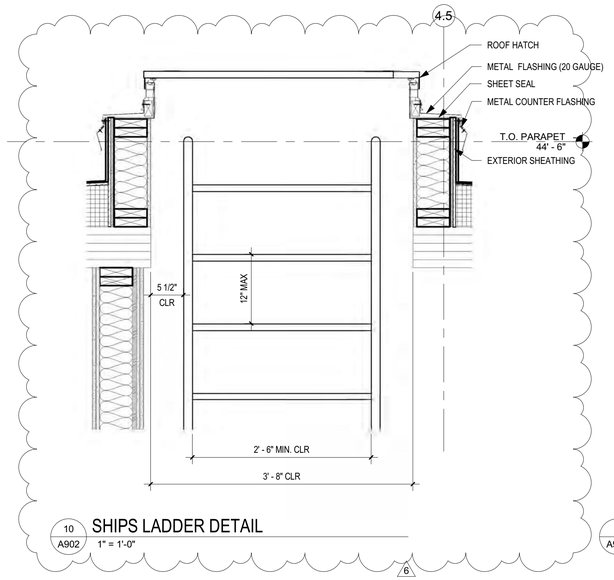
REVISIONS:

1	PERMIT REVISION	11/16/20
6	ASI #003	01/29/21
7	ASI #003 REV #01	02/18/21

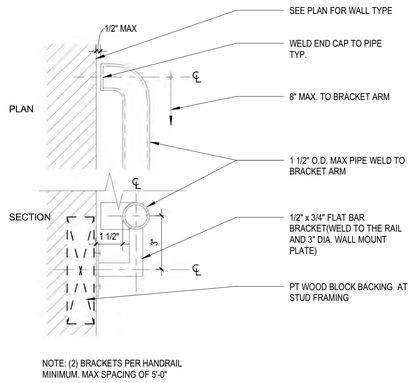
DOOR SCHEDULE, DOOR AND FRAME TYPES

A900

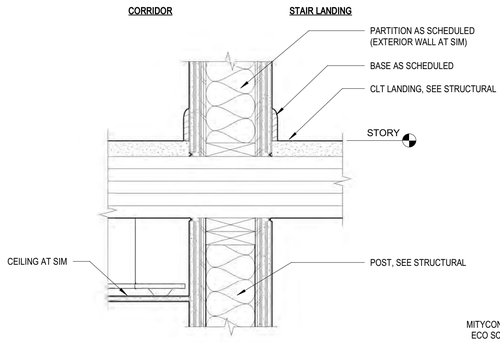
SUBMITTED 2/26/21



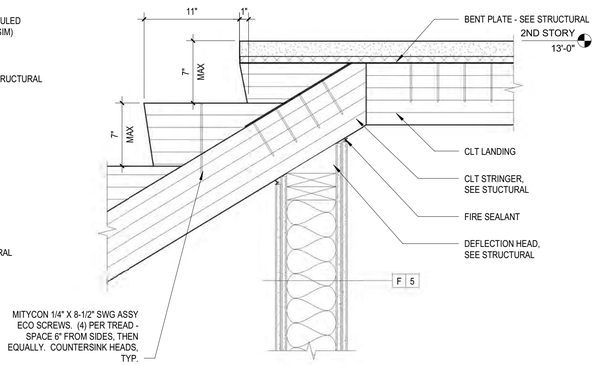
10 A902 SHIPS LADDER DETAIL
1" = 1'-0"



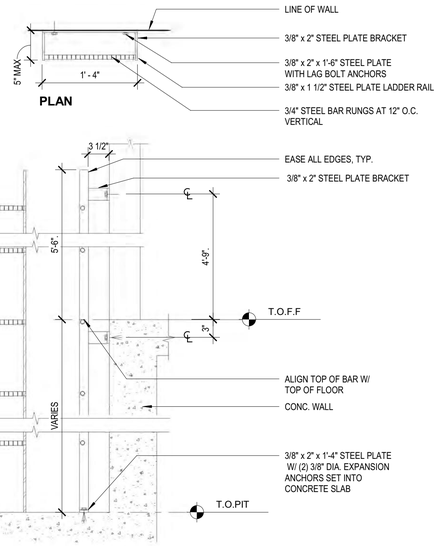
7 A902 TYPICAL HANDRAIL AT WALL
3" = 1'-0"



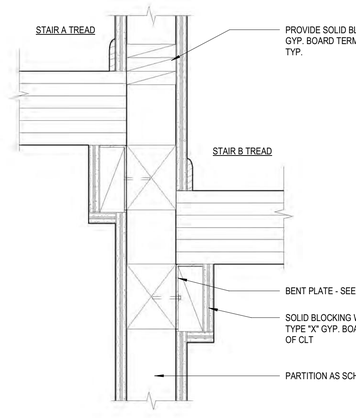
4 A902 STAIR ENCLOSURE AT CORRIDOR
1 1/2" = 1'-0"



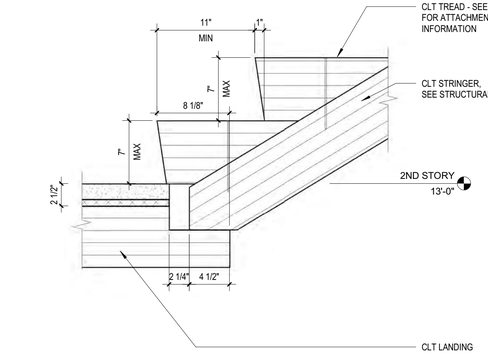
1 A902 TOP OF STAIR, TYP.
1 1/2" = 1'-0"



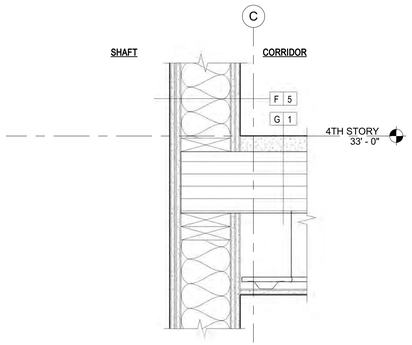
8 A902 ELEVATOR PIT LADDER
1" = 1'-0"



5 A902 SEPARATION WALL AT STAIR ENCLOSURES
1 1/2" = 1'-0"



2 A902 BOTTOM OF STAIR LANDING, TYP.
1 1/2" = 1'-0"



6 A902 CLT AT 1 HOUR SHAFT WALL
1 1/2" = 1'-0"

1

NOT USED

3 A902 NOT USED
1 1/2" = 1'-0"

JONES
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REVISIONS:

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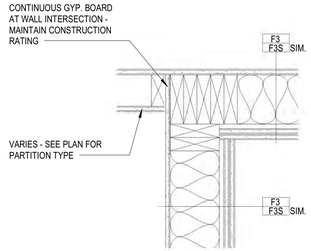
6	ASI #003	01/29/21

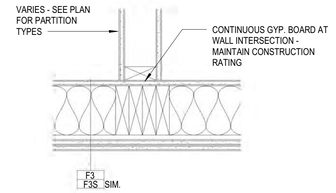
STAIR DETAILS

A902

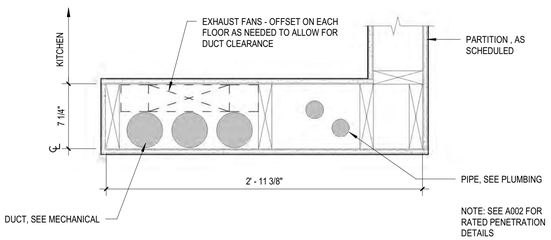
SUBMITTED 2/26/21



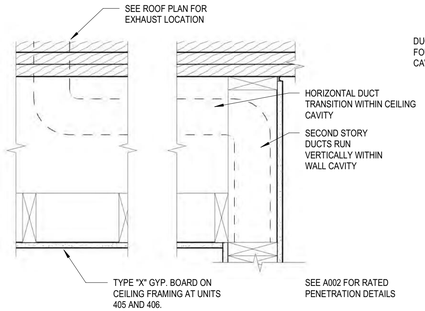
7 A903 NON-RATED PARTITION AT DEMISING WALL
1 1/2" = 1'-0"



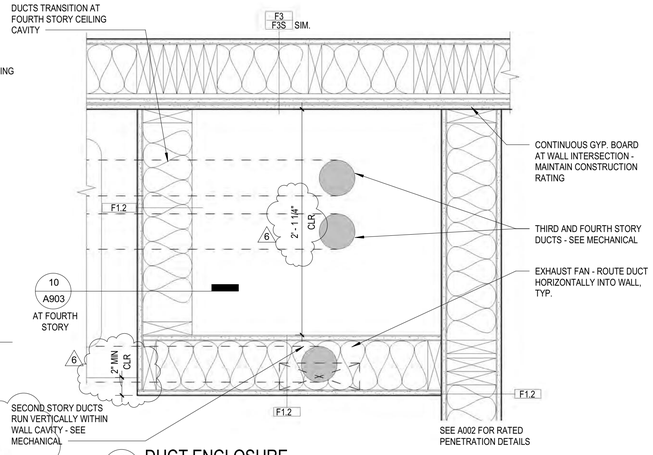
4 A903 NON-RATED PARTITION AT DEMISING AND CORRIDOR WALLS
1 1/2" = 1'-0"



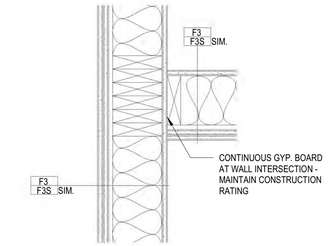
1 A903 KITCHEN WING WALL
1 1/2" = 1'-0"



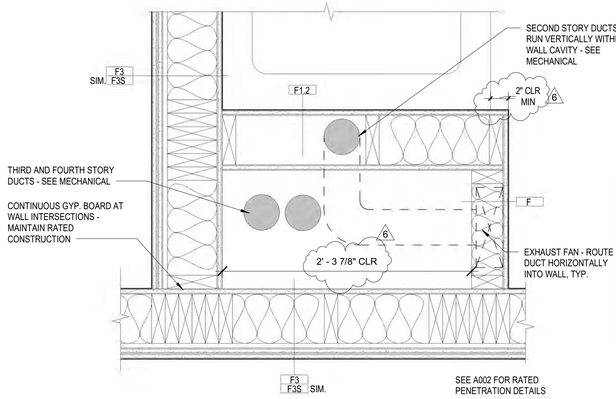
10 A903 4TH STORY DUCT TRANSITION
1 1/2" = 1'-0"



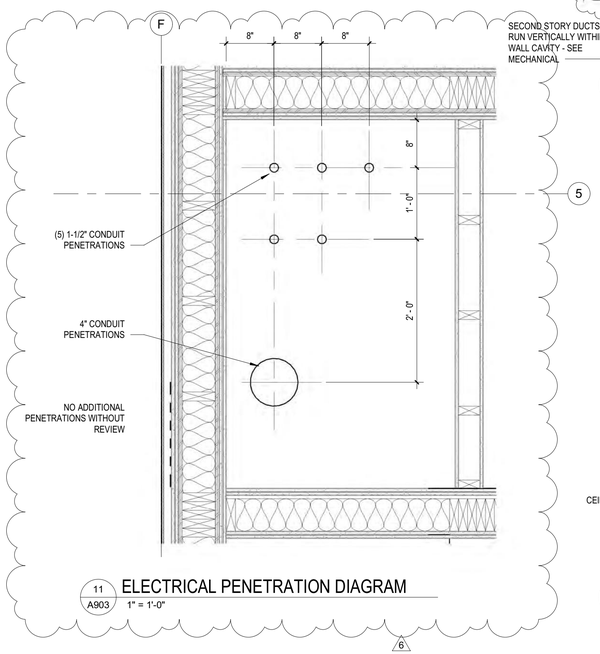
8 A903 DUCT ENCLOSURE
1 1/2" = 1'-0"



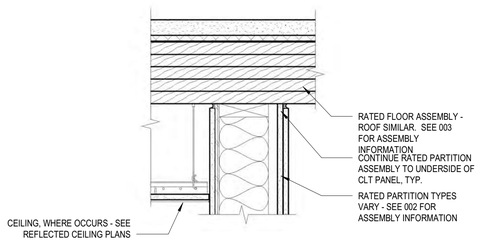
5 A903 RATED CORRIDOR WALL AT DEMISING WALL
1 1/2" = 1'-0"



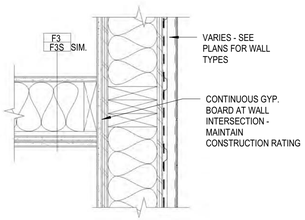
2 A903 DUCT ENCLOSURE
1 1/2" = 1'-0"



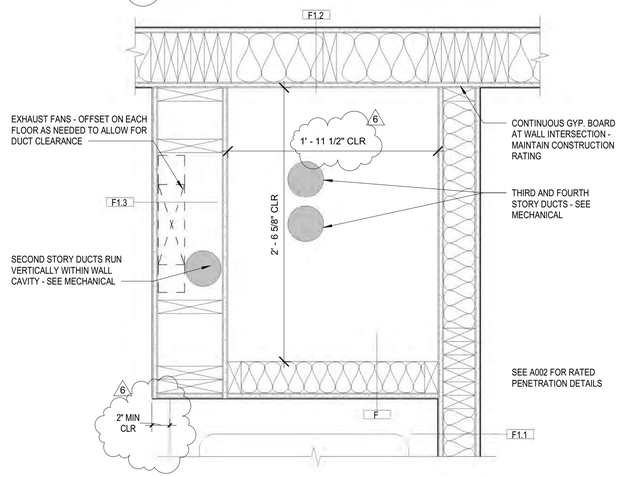
11 A903 ELECTRICAL PENETRATION DIAGRAM
1" = 1'-0"



9 A903 CEILING AT RATED PARTITION
1 1/2" = 1'-0"



6 A903 RATED DEMISING WALL AT EXTERIOR WALL
1 1/2" = 1'-0"



3 A903 DUCT ENCLOSURE
1 1/2" = 1'-0"

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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

6	ASI #003	01/29/21

PARTITION DETAILS

A903

SUBMITTED 2/26/21

COMMON SPACES FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	CEILING FINISH	WALL FINISH				NOTES
					NORTH	EAST	SOUTH	WEST	
100	FUTURE RESTAURANT	N/A	N/A	P	P	P	P	P	
101	FUTURE RETAIL	N/A	N/A	P	P	P	P	P	
102	RESIDENTIAL ENTRY	CONC	PT WD	P/CLT	P/ST WD	P/ST WD	P/ST WD	P	SEE INT. ELEVATIONS FOR EXTENT OF WOOD SIDING
103	BIKES	CONC	RB	P	P/FRP	P	P/FRP	P	
104	TRASH ROOM	CONC	RB	CLT	P	P	P	P	
105	FIRE PUMP	CONC	RB	CLT	P	P	P	P	
106	ELECTRICAL	CONC	RB	CLT	P	P	P	P	
107	DOG WASH	CONC	RB	CLT	P/FRP	P	P/FRP	P/FRP	
108	CORRIDOR	CONC	PT WD	P	P	P	P	P	
109	WATER ROOM	CONC	RB	P	P	P	P	P	
110	CIRCULATION	CONC	PT WD	CLT	P	P	P	P	
111	PACKAGE	CONC	RB	P	P	P	P	P	
112	CIRCULATION	CONC	PT WD	CLT	P	P	P	P	
113	TOILET	CONC	RB	P	P	P	P	P	
211	CORRIDOR	CPT	PT WD	P	P/ST WD	P	P	P	SEE INT. ELEVATIONS FOR EXTENT OF WOOD SIDING
220	UTILITY	LVT	RB	P/CLT	P	P	P	P	
311	CORRIDOR	CPT	PT WD	P	P/ST WD	P	P	P	SEE INT. ELEVATIONS FOR EXTENT OF WOOD SIDING
320	UTILITY	LVT	PT WD	CLT	P	P	P	P	
411	CORRIDOR	CPT	PT WD	P	P/ST WD	P	P	P	SEE INT. ELEVATIONS FOR EXTENT OF WOOD SIDING
420	UTILITY	LVT	RB	CLT	P	P	P	P	
500	WH ROOM	CONC	RB	P	P	P	P	P	
S110	STAIR A	CONC/CLT	PT WD	CLT	P	P	P	P	
S111	STAIR B	CONC/CLT	PT WD	CLT	P	P	P	P	
S210	STAIR A	CPT/CLT	PT WD	CLT	P	P	P	P	
S211	STAIR B	CPT/CLT	PT WD	CLT	P	P	P	P	
S310	STAIR A	CPT/CLT	PT WD	P	P	P	P	P	
S311	STAIR B	CPT/CLT	PT WD	CLT	P	P	P	P	
S410	STAIR A	CPT	PT WD	CLT	P	P	P	P	
S411	STAIR B	CPT/CLT	PT WD	CLT	P	P	P	P	

FINISH SCHEDULE GENERAL NOTES

1. EXTENT OF INTERIOR FINISHES IN COMMON SPACES TBD. PROVIDE ALLOWANCE FOR FINISHES IN COMMON SPACES.
2. SEE INTERIOR ELEVATIONS FOR ACCENT PAINT LOCATIONS AND EXTENTS.
3. SEE REFLECTED CEILING PLANS FOR EXTENT OF SOFFITS AND WOOD CEILINGS.

FINISH SCHEDULE ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED

CLT	EXPOSED CROSS-LAMINATED TIMBER
CONC	SEALED CONCRETE
CPT	CARPET
LVT	VINYL TILE
P	PAINT
PLAM	PLASTIC LAMINATE
PT WD	PAINTED WOOD
Q	ENGINEERED QUARTZ
RB	RUBBER BASE
ST WD	STAINED WOOD

UNIT FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	UNIT						BATHROOM						CASEWORK					NOTES
			BASE FINISH	CEILING FINISH	WALL FINISH				BASE	CEILING	WALL FINISH				KITCHEN	KITCHEN COUNTERTOP	WARDROBE	BATHROOM	BATHROOM COUNTERTOP	
					NORTH	SOUTH	EAST	WEST			NORTH	SOUTH	EAST	WEST						
201	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
202	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
203	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
204	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
205	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
206	STUDIO TYPE A	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
207	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
208	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
209	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
210	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
301	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
302	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
303	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
304	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
305	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
306	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
307	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
308	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
309	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
310	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
401	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
402	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
403	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
404	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
405	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
406	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
407	1 BD	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
408	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
409	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	
410	STUDIO	LVT	PT WD	CLT	P	P	P	P	PT WD	P	P	P	P	P	PLAM	SOLID SURFACE	PLAM	PLAM	PLAM	

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PERMIT REVISION

Issue Date: 2020-11-16

REVISIONS:

1	PERMIT REVISION	11/16/20

FINISH SCHEDULE

A910

Sheet Number	Sheet Name
S001	COVER SHEET
S002a	GENERAL STRUCTURAL NOTES
S002b	GENERAL STRUCTURAL NOTES CONT
S002c	SPECIAL INSPECTION
S003	SCHEDULES
S200	FOUNDATION PLAN
S201	LEVEL 02 FLOOR FRAMING PLAN
S202	LEVEL 03 FLOOR FRAMING PLAN
S203	LEVEL 04 FLOOR FRAMING PLAN
S204	ROOF FRAMING PLAN
S205	BEARING WALL LAYOUT
S206	CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING
S300	VERTICAL CIRCULATION
S301	PARTIAL PLANS
S400	CANOPY FRAMING
S401	CANOPY FRAMING DETAILS
S500	FOUNDATION DETAILS
S501	FOUNDATION DETAILS
S600	WOOD DETAILS
S601	FLOOR FRAMING DETAILS
S602	FLOOR FRAMING DETAILS
S603	FLOOR FRAMING DETAILS
S700	ROOF FRAMING DETAILS
S801	STANDARD SHEAR WALL
S802	STANDARD SHEAR WALL

"	INCH	DBA	DEFORMED BAR ANCHOR	HAS	HEADED ANCHOR STUD	OD	OUTSIDE DIAMETER	THK	THICK		
#	NUMBER, POUND	DBL	DOUBLE	HC	HOLLOW CORE	OH	OVERHEAD	THRD	THREADED		
&	AND	DEFL	DEFLECTION	HCP	HOLLOW CORE PLANK	OPNG	OPENING	TOB	TOP OF BEAM		
'	FEET	DEMO	DEMOLITION	HDD	HEADED ANCHOR STUD	OPP	OPPOSITE, OPPOSITE HAND	TOC	TOP OF COLUMN, TOP OF CURB		
@	AT	DEPT	DEPARTMENT	HDR	HEADER	OSWJ	OPEN WEB STEEL JOIST	TOF	TOP OF FOOTING		
(E)	EXISTING	DET	DETAIL	HEX	HEXAGONAL			TOJ	TOP OF JOIST		
(N)	NEW	DF	DOUG FIR (DOUGLAS FIR)	HM	HOLLOW METAL	P/L	PORPERTY LINE	TOL	TOP OF LINTEL, LANDING		
		DIA	DIAMETER	HORIZ	HORIZONTAL	PAF	POWDER ACTUATED FASTENERS	TOL	TOLERANCE		
AB	ANCHOR BOLT	DIAG	DIAGONAL	HSS	HOLLOW STRUCTURAL SHAPE	PC	PRECAST	TOP	TOP OF PIER, TOP OF PLATE		
ACI	AMERICAN CONCRETE INSTITUTE	DIAPH	DIAPHRAGM	HT	HEIGHT	PCF	POUNDS PER CUBIC FOOT	TOPV	TOP OF PAVEMENT		
ADD	ADDENDUM, ADDITION	DIM	DIMENSION	HVAC	HEATING, VENTILATION, AIR CONDITIONING	PERF	PERFORATE, PERFORATED, PERFORMANCE	TOS	TOP OF SLAB, TOP OF STEEL		
ADJ	ADJUST, ADJUSTABLE	DKG	DECKING			PERIM	PERIMETER	TOW	TOP OF WALL		
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	DL	DEAD LOAD	IBC	INTERNATIONAL BUILDING CODE	PERIM	PROFESSIONAL ENGINEER	TRANS	TRANSVERSE		
AFF	ABOVE FINISH FLOOR	DWG	DRAWING	ICF	INSULATED CONCRETE FORMS	PERP	PERPENDICULAR	TRANSL	TRANSLUCENT		
ALT	ALTERNATE	DWGS	DRAWINGS	ID	INSIDE DIAMETER	PL	PLATE	TYP	TYPICAL		
ALUM	ALUMINUM	DWL	DOWEL	IN	INCH, INCHES	PLF	POUNDS PER LINEAL FOOT				
APPROX	APPROXIMATELY			INFO	INFORMATION	PLWD	PLYWOOD	UNO	UNLESS NOTED OTHERWISE		
ARCH	ARCHTECTURE	EIFS	EXTERIOR INSULATED FINISH SYSTEM	INSP	INSPECTION	PNL	PANEL	UTIL	UTILITY		
ASTM	AMERICAM SOCIETY FOR TESTING AND MATERIALS	ELEV	ELEVATOR	INSUL	INSULATION	PREFAB	PREFABRICATED				
AVG	AVERAGE	ENGR	ENGINEER	INT	INTERIOR	PREFIN	PREFINISHED	VERT	VERTICAL		
AWS	AMERICAN WELDING SOCIETY	EOR	ENGINEER OF RECORD			PSF	POUNDS PER SQUARE FOOT	VFY	VERIFY		
		EQ	EQUAL	JST	JOIST	PSI	POUNDS PER SQUARE INCH	VIF	VERIFY IN FIELD		
BALC	BALCONY	EQPT	EQUIP	JT	JOINT, JOINTS	PSL	PARALLEL STRAND LUMBER				
BD	BOARD	ES	EACH SIDE			PT	PRESERVATIVE TREATED, POST-TENSIONED	W/	WITH		
BEV	BEVEL	EW	EACH WAY	K	KILOPOUND (1000 POUNDS)			W/O	WITHOUT		
BKR	BACKER	EXIST	EXISTING	KIP	KILOPOUND (1000 POUNDS)	QTY	QUANTITY	WD	WOOD		
BLDG	BUILDING	EXP	EXPANSION					WF	WIDE FLANGE (STRUCTURAL STEEL)		
BLK	BLOCK	EXPO	EXPOSED	L	ANGLE, LEFT, LENGTH	RAD	RADIUS	WR	WATER RESISTANT, WATER RESISTIVE		
BLKG	BLOCKING	EXT	EXTERIOR	LAM	LAMINATE, LAMINATED	RCP	REFLECTED CEILING PLAN	WS	WATERSTOP		
BM	BEAM			LAT	LATERAL	RD	ROOF DRAIN	WT	WEIGHT		
BOC	BOTTOM OF CURB	F OF F	FACE TO FACE	LB	POUND	REF	REFERENCE	WWF	WOVEN WIRE FABRIC		
BOT/BTM	BOTTOM	FAB	FABERICATIONS / FABRICATED	LF	LINEAL FEET, LINEAR FOOTAGE	REINF	REINFORCED, REINFORCING				
BOW	BOTTOM OF WALL	FB	FLAT BAR	LIN	LINEAR	REQ	REQUIREMENTS, REQUIRED				
BP	BASE PLATE	FDTN	FOUNDATION	LIN FT	LINEAL FEET, LINEAR FOOTAGE	REQ'D	REQUIRED				
BRDG	BRIDGE, BRIDGING	FE	FROELICH ENGINEERS	LL	LIVE LOAD	REV	REVISION				
BRG	BEARING	FF	FINISH FLOOR	LLH	LONG LEG HORIZONTAL	RO	ROUGH OPENING				
BRK	BRICK	FFE	FINISH FLOOR ELEVATION	LLV	LONG LEG VERTICAL						
BSMT	BASEMENT	FIN	FINISH	LNTL	LINTEL	SCHED	SCHEDULE				
BU	BUILT-UP	FLR	FLOOR	LONG	LONGITUDINAL	SE	STRUCTURAL ENGINEER				
		FOC	FACE OF CONCRETE	LSL	LAMINATED STRAND LUMBER	SECT	SECTION				
CEM	CEMENT, CEMENTITIOUS	FOF	FACE OF FINISH	LT WT	LIGHTWEIGHT	SF	SQUARE FEET				
CGS	CENTER OF GRAVITY OF STRAND	FOM	FACE OF MASONRY	LVL	LAMINATED VENEER LUMBER	SGL	SINGLE				
CIP	CAST IN PLACE	FOS	FACE OF STUD			SHT	SHEET				
CJ	CONTROL JOINT	FR	FIRE RATED, FIRE RESISTIVE	MANUF	MANUFACTURER, MANUFACTURED	SHTG	SHEATHING				
CL	CENTER LINE	FRM	FRAMED, FRAMING	MAX	MAXIMUM	SIM	SIMILAR				
CLG	CEILING	FRT	FIRE RETARDANT TREATED	MB	MACHINE BOLT	SIMP	SIMPSON STRONG TIE				
CLR	CLEAR	FT	FOOT, FEET	MECH	MECHANICAL	SL	SNOW LOAD				
CMU	CONCRETE MASONRY UNIT	FTG	FOOTING	MEZZ	MEZZANINE	SOG	SLAB ON GRADE				
COL	COLUMN	FURRG	FURRING	MFR	MANUFACTURER, MANUFACTURED	SPEC	SPECIFICATION, SPECIFICATIONS				
COMP	COMPOSITE, COMPENSATION	FUT	FUTURE	MIN	MINIMUM	SQ	SQUARE				
CONC	CONCRETE			MISC	MISCELLANEOUS	SS	STAINLESS STEEL				
COND	CONDITION	GA	GAUGE	MTL	METAL	STD	STANDARD				
CONN	CONNECTION	GALV	GALVANIZED	MUL	MULLION	STIFF	STIFFENER				
CONSTR	CONSTRUCTION	GC	GENERAL CONTRACTOR			STL	STEEL				
CONT	CONTINUOUS	GEN	GENERAL	N	NORTH	STRUCT	STRUCTURAL				
CORR	CORRIDOR	GL	GLU-LAMINATED	NIC	NOT IN CONTRACT	SUSP	SUSPENDED				
CTR	CENTER	GLB	GLU-LAMINATED BEAM	NO	NUMBER	SYM	SYMMETRICAL				
CTRL	CONTROL	GND	GROUND	NOM	NOMINAL						
CTSK	COUNTERSINK	GR	GRADE	NTS	NOT TO SCALE	T&B	TOP AND BOTTOM				
CU	CUBIC	GYP	GYPSUM			T&G	TONGUE AND GROOVE				
CUST	CUSTOM	GYP BD	GYPSUM BOARD	OC	ON CENTER	TAN	TANGENT				

COMPLETE LEGEND

- - INDICATES FOOTING TYPE, REF SCHEDULE.
- - INDICATES STRUCTURAL COLUMN STARTING AT THIS LEVEL. REF COLUMN SCHEDULE.
- - INDICATES COLUMN ABOVE.
- - INDICATES COLUMN BELOW.
- - INDICATES STRUCTURAL STUD WALL ABOVE.
- - INDICATES WOOD SHEATHED SHEAR WALL ABOVE.
- - INDICATES STRUCTURAL STUD WALL BELOW.
- - INDICATES NON-STRUCTURAL WALL BELOW.
- - INDICATES NON-STRUCTURAL WALL ABOVE
- W- - INDICATES BEARING WALL
- H- - INDICATES HEADER TYPE, REF HEADER SCHEDULE.
- B- - INDICATES BEAM TYPE, REF BEAM SCHEDULE.
- - INDICATES SHEAR WALL AND HOLDOWN TYPE, REF SHEAR WALL AND HOLDOWN SCHEDULE
- J# @ XX" OC - INDICATES JOIST TYPE AND SPACING, REF PLANS & JOIST FRAMING SCHEDULE.
- - INDICATES DIRECTION DECK OR SHEATHING TO SPAN.
- - INDICATES ELEVATION.
- - INDICATES DIRECTION CROSS LAMINATED TIMBER PANELS TO SPAN.
- - INDICATES KEYED NOTE.
- - INDICATES CHANGE IN SLOPE.
- - INDICATES STEP IN ELEVATION.
- - INDICATES MECHANICAL UNIT.
- XX PSF / XX"-XX" - INDICATES SNOW DRIFT LOAD. JOIST MANUFACTURER SHALL MAKE PROVISION FOR THESE IN THE DESIGN OF THE JOISTS REF PLANS FOR LOAD & EXTENT.
- - INDICATES ROOF DECK. SEE KEYED NOTE 5 ON S204

JONES

JONES ARCHITECTURE

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH EXPIRES: 6.30.22

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City of Portland
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1	ADDENDUM 2	3.30.2018
2	ADDENDUM 3	6.29.2018
3	ASI #003	01.29.2021

COVER SHEET

S001

SUBMITTED 2/26/21

PROJECT DESCRIPTION:

- NEW 4-STORY MULTI-FAMILY APARTMENT BUILDING
- CONVENTIONAL SPREAD AND STRIP CONCRETE FOUNDATIONS
- CONCRETE SLAB-ON-GRADE FIRST FLOOR
- WOOD 2X STUD WALLS SHEATHED WITH PLYWOOD PANELS
- CROSS LAMINATED TIMBER PANELS AT 2ND - 4TH FLOOR
- CROSS LAMINATED TIMBER PANELS AT ROOF

GENERAL:

1. THE STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THE ENTIRE SET OF CONTRACT DOCUMENTS (INCLUDING THE PROJECT SPECIFICATIONS) INTO THEIR WORK.
2. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
4. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
5. DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT/ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

CODE REQUIREMENTS:

1. CONFORM TO THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED UPON THE 2012 INTERNATIONAL BUILDING CODE (IBC).
2. ALL REFERENCE TO OTHER CODES AND STANDARDS (ACI, ASTM, ETC.) SHALL BE FOR THE EDITIONS NOTED IN CHAPTER 35 OF THE IBC.

TEMPORARY CONDITIONS:

1. THE STRUCTURE HAS BEEN DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT REQUIRED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
2. CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
3. RETAINING WALLS THAT TIE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.

DESIGN CRITERIA:

1. DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE IBC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWANCES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED IN ACCORDANCE WITH THE IBC:

DESIGN CRITERIA		
GEOTECHNICAL CRITERIA		
DESIGN BASED ON GEOTECHNICAL REPORT BY:	GEODESIGN, INC. REPORT: URBANLPM-1-01 MAY 31, 2017	DATE:
ALLOWABLE SOIL BEARING PRESSURE	2,500 PSF	
LIVE LOAD CRITERIA		
FLOOR LIVE LOADS	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LBS)
CORRIDORS AND STAIRS	100	
RESIDENTIAL	40	
RETAIL SPACE	100	
STORAGE (LIGHT)	125	
VERTICAL FLOOR DEFLECTION (CLADDING DESIGN)	0.75" OR L/360 WHICHEVER IS LESS (LIVE LOAD PLUS LONG-TERM DEAD LOAD)	
VERTICAL FLOOR DEFLECTION (CLADDING DESIGN)	L/360 (LIVE LOAD) PER IBC TABLE 1604.3	
NOTES:	1. LIVE LOADS REDUCED PER IBC 1607.10 2. MEMBER DESIGNED FOR THE MORE CRITICAL OF THE UNIFORM OR CONCENTRATED LOAD.	
SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	25 PSF MINIMUM IN ACCORDANCE WITH THE OSSC	
SNOW DRIFT	PER OSSC AS SHOWN ON PLANS	
GROUND SNOW LOAD	P_g = 10 PSF IN ACCORDANCE WITH 2007 SNOW LOAD ANALYSIS FOR OREGON	
FLAT ROOF SNOW LOAD	P_f = 7 PSF	
SNOW EXPOSURE FACTOR	C_e = 1.0	
SNOW LOAD IMPORTANCE FACTOR	I_s = 1.0	
THERMAL FACTOR	C_t = 1.0	
WIND CRITERIA		
MAIN WIND FORCE RESISTING SYSTEM	120 MPH BASIC WIND SPEED (3-SECOND GUST)	
COMPONENTS AND CLADDING	120 MPH BASIC WIND SPEED (3-SECOND GUST)	
EXPOSURE CATEGORY	B	
GUST/INTERNAL PRESSURE	GC_{pi} = +/- 0.18	
SEISMIC CRITERIA		
RISK CATEGORY	II	
SITE CLASS	D	
IMPORTANCE FACTOR	I_e = 1	
SEISMIC DESIGN CATEGORY	D	
MCE SPECTRAL ACCELERATIONS	S_S =0.987	S_1 =0.431
SITE COEFFICIENTS	F_a = 1.105	F_V =1.55
DESIGN SPECTRAL ACCELERATIONS	S_{DS} = 0.727	S_{D1} = 0.451
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 7-10 SECTION 12.8	
	NORTH-SOUTH DIRECTION	EAST-WEST DIRECTION
SEISMIC LOAD RESISTING SYSTEM	LIGHT FRAMED WOOD SHEAR WALLS	LIGHT FRAMED WOOD SHEAR WALLS
RESPONSE MODIFICATION FACTOR	R = 6.5	R = 6.5
SEISMIC RESPONSE COEFFICIENT	C_S = 0.112	C_S = 0.112
DESIGN BASE SHEAR	V = 184 k	V = 184 k
REDUNDANCY FACTOR	ρ = 1.0	ρ = 1.0

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STRUCTURAL OBSERVATION:

1. THE STRUCTURAL ENGINEER OF RECORD (SER) WILL PERFORM STRUCTURAL OBSERVATIONS BASED ON THE REQUIREMENTS OF THE IBC AT THE STAGES OF CONSTRUCTION LISTED BELOW. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SER TO PERFORM THESE OBSERVATIONS:

STRUCTURAL OBSERVATIONS		
CONSTRUCTION PHASE	OBSERVATION BY SER	COMMENTS
PRIOR TO FIRST CONCRETE POUR	X	REF. FOOTNOTE A, B, C
AFTER FIRST CLT PANELS ARE INSTALLED	X	REF. FOOTNOTE A, B, C
WHEN STRUCTURE IS COMPLETE PRIOR TO COVERING	X	REF. FOOTNOTE A, B
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES	X	REF. FOOTNOTE A, B

A. STRUCTURAL OBSERVATIONS ARE INTENDED TO VERIFY GENERAL CONFORMANCE WITH THE STRUCTURAL DRAWINGS. SPECIAL INSPECTIONS AND TESTING ARE STILL REQUIRED.
B. A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH VISIT.
C. STRUCTURAL OBSERVATION TO OCCUR AFTER THE REINFORCING STEEL HAS BEEN INSTALLED

FOUNDATIONS:

1. FOUNDATION SIZES ARE BASED UPON A MAXIMUM TOTAL LOAD BEARING SOIL PRESSURE AS NOTED IN DESIGN CRITERIA FOR BEARING ON NATIVE SOILS/COMPACTED FILL, AS RECOMMENDED BY THE GEOTECHNICAL REPORT.
2. ALL FOOTINGS SHALL BE A MINIMUM OF < > BELOW FINAL GRADES.
3. ALL DISTURBED SOIL SHALL BE REMOVED BY HAND OPERATION FROM FOOTING EXCAVATIONS TO NEAT LINES AND REPLACED WITH ENGINEERED FILL IF NECESSARY.
4. THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL ENGINEER RECOMMENDATIONS PRIOR TO THE COMMENCEMENT OF ANY SITEWORK.
5. STRUCTURAL FILL MATERIALS, PLACEMENT, AND COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
6. BOTTOM OF FOOTINGS SHALL BE STEPPED FROM ELEVATION TO ELEVATION AT 2'-0" HORIZONTAL TO 1'-0" VERTICAL STEPS.
7. PLACEMENT OF ALL FILL SHALL BE OBSERVED AND TESTED FOR RELATIVE COMPACTION BY A QUALIFIED TECHNICIAN UNDER THE GUIDANCE OF THE GEOTECHNICAL ENGINEER. MINIMUM TESTING FREQUENCY SHALL BE ESTABLISHED BY THE GEOTECHNICAL ENGINEER.
8. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER PRIOR TO COMMENCEMENT OF FILLING OPERATIONS.
9. ALL GENERAL EXCAVATIONS AND FOOTINGS SHALL BE INSPECTED AND APPROVED PRIOR TO THE PLACEMENT OF ANY SOIL BACKFILL AND/OR CONCRETE.
10. ALL FILL, BACKFILL AND COMPACTION ACTIVITIES, PARTICULARLY DURING WET WEATHER CONDITIONS, SHALL FOLLOW RECOMMENDATIONS OF GEOTECHNICAL ENGINEER.

MICROPILES:

1. MICROPILES SHALL BE CAPABLE OF DEVELOPING A MINIMUM ASD FACTORED DESIGN LOAD OF 40 KIPS IN TENSION/COMPRESSION.
2. MICROPILE CAPACITY SHALL BE VERIFIED BY TESTING PER IBC REQUIREMENTS.
3. PROVIDE ALL NECESSARY ACCESSORIES FOR MICROPILE INSTALLATION INCLUDING, BUT NOT LIMITED TO: BEARING PLATES, WASHERS, NUTS, CENTRALIZER'S, GROUT.
4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES (PRESENT OR FUTURE) AND ENSURING MICROPILE WORK DOES NOT CONFLICT WITH UTILITIES.
5. MICROPILES SHALL BE OF TYPE AND STRENGTH INDICATED ON PLANS. DEFORMED BAR, CONTINUOUS WITHOUT SPLICES OR WELDS, NEW, STRAIGHT, UNDAMAGED, BARE, EPOXY-COATED, OR ENCAPSULATED AS SHOWN ON THE PLANS. BARS SHALL BE THREADED A MINIMUM OF 6" ON THE WALL ANCHORAGE END, TO ALLOW PROPER ATTACHMENT OF BEARING PLATE AND NUT. THREADING MAY BE CONTINUOUS SPIRAL DEFORMED RIBBING PROVIDED BY THE BAR DEFORMATIONS (CONTINUOUS THREADED BAR) OR MAY BE CUT INTO A REINFORCING BAR. IF THREADS ARE CUT INTO A REINFORCING BAR, PROVIDE THE NEXT-LARGER BAR SIZE FROM THAT WHICH IS SHOWN ON THE PLANS, AT NO ADDITIONAL COST.
6. BAR COUPLERS SHALL DEVELOP THE FULL ULTIMATE TENSILE STRENGTH OF THE BAR AS CERTIFIED BY MANUFACTURER.
7. CENTRALIZERS SHALL BE MANUFACTURED FROM SCHEDULE 40 PVC PIPE OR TUBE, STEEL, OR OTHER MATERIAL NOT DETRIMENTAL TO THE STEEL (WOOD IS NOT PERMITTED). SECURELY ATTACH CENTRALIZER TO THE BAR. SIZE THE CENTRALIZER TO POSITION THE BAR WITHIN 1" OF THE CENTER OF THE DRILLHOLE. SIZE THE CENTRALIZER TO ALLOW FREE GROUT FLOW UP THE DRILLHOLE.
8. GROUT SHALL CONSIST OF NEAT CEMENT OR SAND/CEMENT MIXTURE WITH A MINIMUM 3 DAY COMPRESSIVE STRENGTH OF 2000 PSI AND A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. ADMIXTURES THAT CONTROL BLEED, IMPROVE FLOWABILITY, REDUCE WATER CONTENT, AND RETARD SET MAY BE USED IN THE GROUT SUBJECT TO REVIEW AND ACCEPTANCE BY THE ENGINEER OF RECORD. ACCELERATORS ARE NOT PERMITTED. ADMIXTURES SHALL BE COMPATIBLE WITH THE GROUT AND MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY SURVEY AND ALIGNMENT CONTROL DURING EXCAVATION FOR, LOCATING DRILL HOLES, AND VERIFYING LIMITS OF INSTALLATION.

SPECIAL INSPECTION AND TESTING:

1. SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE IBC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEET S002C. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SUBMITTALS:

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO THE FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING:

SUBMITTALS			
ITEM	SUBMITTAL (A, D)	DEFERRED SUBMITTAL (B, D)	COMMENTS
CONCRETE MIX DESIGNS	X		
CONCRETE REINFORCEMENT	X		
REINFORCING STEEL MILL CERTS	X		
CONCRETE ANCHORAGES	X		
ANCHOR BOLT LAYOUT	X		
EMBEDDED STEEL ITEMS	X		
SLAB-ON-GRADE CONTROL JOINT LAYOUT	X		
STRUCTURAL STEEL MILL CERTS	X		
STRUCTURAL STEEL	X		
STEEL WELDING PROCEDURES	X		
GLUED LAMINATED MEMBERS	X		
CROSS LAMINATED TIMBER PANELS	X		
CONTINUOUS ROD HOLDOWN SYSTEM	X	X	
STORE FRONT WALL, WINDOW WALL AND OTHER GLAZING SYSTEMS	X	X	
RAILINGS	X	X	
MICROPILES	X	X	
MEP ANCHORAGE AND BRACING	X	X	FOOTNOTE "C"

A. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. ANY MODIFICATIONS TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE STRUCTURAL ENGINEER OF RECORD.
B. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED UPON THE REQUIREMENTS OF THE IBC AND AS NOTED UNDER "DESIGN CRITERIA."
C. THE CONTRACTOR SHALL COORDINATE THE SEISMIC RESTRAINTS OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. CONNECTIONS TO THE STRUCTURE SHALL CONFORM TO ASCE 7-10 CHAPTER 13 AND BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
D. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM, OR ADD TO, THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION. ANY SUCH DETAILS ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE STRUCTURAL ENGINEER OF RECORD.

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO "ACI 318--BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CHAPTER 19 OF THE INTERNATIONAL BUILDING CODE.
2. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, UNLESS NOTED OTHERWISE, AND SHALL BE AS FOLLOWS:

CONCRETE STRENGTHS				
DESCRIPTION	f'c (PSI)	WATER - CEMENT RATIO BY WEIGHT	ENTRAINED AIR	OTHER
FOOTINGS, STEMWALLS	3,000	0.53	2% +/- 1.5%	
RETAINING WALLS	3,000	0.50	6% +/- 1.5%	
EXTERIOR SLAB-ON-GRADE	3,000	0.48	6% +/- 1.5%	SEE NOTE E
INTERIOR SLAB-ON-GRADE	4,000	0.48		SEE NOTE E

NOTES:
A. VERIFY WATER/CEMENT RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS.
B. CONCRETE MIXES SHALL BE NORMAL WEIGHT AND CONTAIN PORTLAND CEMENT CONFORMING TO ASTM C150 FOR TYPE I, OR TYPE II.
C. AIR ENTRAINING AGENT SHALL CONFORM TO ASTM C260.
D. COLUMNS THAT ARE AN INTEGRAL PART OF A WALL SHALL HAVE CONCRETE STRENGTH AS REQUIRED FOR COLUMNS.
E. SHRINKAGE RATE, AS DETERMINED BY ASTM C157, OF CONCRETE SHALL NOT EXCEED 0.045% AT 28 DAYS. USE A SHRINKAGE REDUCING ADMIXTURE TO ACHIEVE THIS VALUE, IF REQUIRED.

3. MINIMUM CEMENT CONTENT PER CUBIC YARD SHALL BE AS FOLLOWS:

MINIMUM CEMENT CONTENT	
f'c (PSI)	MINIMUM CEMENT CONTENT PER CUBIC YARD
3,000	470 LBS.
4,000	550 LBS.
5,000	630 LBS.

NOTES:
A. FLYASH CONFORMING TO ASTM C618 "TYPE F," OR "TYPE C" MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.

4. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS, ALONG WITH TEST DATA COMPLIANT WITH ACI-318 CHAPTER 5, A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE.
5. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS IT CONFORMS TO THE APPROVED MIX DESIGN AND IS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER.
6. A WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED INTO CONCRETE MIX DESIGNS. A HIGH RANGE WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494 "TYPE F, OR TYPE "G" MAY BE USED IN CONCRETE MIXES PROVIDED THAT THE SLUMP DOES NOT EXCEED 10-INCHES.
7. CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION WHEREVER PRACTICAL. CONSTRUCTION JOINTS IN BEAMS, JOISTS, AND SLABS SHALL BE LOCATED AT MID-SPAN WITH REINFORCING CONTINUING THROUGH AS IF THE JOINT DID NOT OCCUR. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED MIDWAY BETWEEN COLUMNS OR PILASTERS.
8. SLEEVES, OPENING, CONDUITS, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE-THIRD THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON-CENTER.
9. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF CONSTRUCTION AND CONTROL JOINTS FOR CONCRETE SLABS-ON-GRADE. THE JOINTS SHALL BE LOCATED AT MAXIMUM 12'-0" ON-CENTER EACH WAY FORMING RECTANGLES WITH A LENGTH TO WIDTH RATIO NOT EXCEEDING 1.5 IN ANY DIRECTION. CONTROL JOINTS SHALL INTERSECT AT COLUMN BLOCKOUTS, AT ENDS OF BEARING WALLS, AND AT ALL RE-ENTRANT CORNERS IN THE SLAB.
10. PROVIDE VERTICAL EXPANSION JOINTS IN CONTINUOUS CONCRETE ASSEMBLIES AND WALLS SUCH THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED THE LESSER OF A LENGTH-TO-HEIGHT RATIO OF 3.5 OR 40-FEET. REFERENCE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF EXPANSION JOINTS.
11. ALL BOLTS AND/OR ANCHOR RODS EMBEDDED INTO CONCRETE SHALL CONFORM TO ASTM SPECIFICATION F1554 GRADE 36 UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
12. ANCHOR RODS ARE TO BE LOCATED BY MEANS OF TEMPLATE. ANCHOR RODS SHALL NOT BE HAND SET, OR WET SET.
13. ANCHOR RODS AND EMBEDDED ITEMS SHALL BE SET IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE SECTION 7.5.
14. WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE.
15. PROVIDE 1/2" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.
16. PREPARATION, CONSTRUCTION AND PROTECTION OF CONCRETE DURING COLD WEATHER OR HOT WEATHER SHALL CONFORM TO ACI 318 5.12, 5.13 AND ACI 306R AND 305R.

EPOXY REPAIR ADHESIVE:

1. EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A TWO-COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND LONG POT LIFE. THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE ON DRY OR DAMP SURFACES.
2. ADHESIVE SHALL HAVE A MINIMUM SLANT SHEAR STRENGTH OF 5,000 PSI AND A MINIMUM TENSILE STRENGTH OF 4,000 PSI.
3. HOLE SIZES AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS SET FORTH IN THE APPROVED ICC EVALUATION REPORT.
4. REINFORCEMENT SHALL NOT BE CUT OR DAMAGED IN EITHER NEW OR EXISTING CONCRETE DURING INSTALLATION.

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1	ADDENDUM 2	3.30.2018
2	PERMIT REVISION	11.16.2020

GENERAL STRUCTURAL NOTES

Sheet Name

S002a

Sheet Number

SHEAR WALL SCHEDULE

TYPE	SHEATHING & NAILING	SOLE PL CONN TO CLT AND DBL TOP PL TO BOTTOM OF CLT	MUD SILL AND ANCHOR BOLTS (REF NOTE 6)	COMMENTS
A	19/32" APA RATED OSB SHEATHING (1) SIDE W/ 10D NAILS @ 6" OC EDGES AND 12" OC FIELD	SIMPSON SDS 1/4 X 6" SCREW @ 12" OC	3X SILL PL W/ 5/8" DIA AB @ 36" OC (EMBEDMENT = 7")	
B	19/32" APA RATED OSB SHEATHING (1) SIDE W/ 10D NAILS @ 4" OC EDGES AND 12" OC FIELD	SIMPSON SDS 1/4 X 6" SCREW @ 9" OC	3X SILL PL W/ 5/8" DIA AB @ 24" OC (EMBEDMENT = 7")	
C	19/32" APA RATED OSB SHTH (1) SIDE W/ 10D NAILS @ 3" OC EDGES AND 12" OC FIELD	SIMPSON SDS 1/4 X 6" SCREW @ 6" OC	3X SILL PL W/ 5/8" DIA AB @ 24" OC (EMBEDMENT = 7")	SEE NOTE 9 BELOW
D	19/32" APA RATED OSB SHEATHING (2) SIDES W/ 10D NAILS @ 4" OC EDGES AND 12" OC FIELD	(2) ROWS OF SIMPSON SDS 1/4 X 6" SCREW @ 9" OC	3X SILL PL W/ 5/8" DIA AB @ 16" OC (EMBEDMENT = 7")	SEE NOTE 9 BELOW
E	19/32" APA RATED OSB SHEATHING (2) SIDES W/ 10D NAILS @ 3" OC EDGES AND 12" OC FIELD	(2) ROWS OF SIMPSON SDS 1/4 X 6" SCREW @ 6" OC STAGGERED	3X SILL PL W/ 5/8" DIA AB @ 12" OC (EMBEDMENT = 7")	SEE NOTE 9 BELOW
F	19/32" APA RATED OSB SHEATHING (2) SIDES W/ 10D NAILS @ 2" OC EDGES AND 12" OC FIELD	(2) ROWS OF SIMPSON SDS 1/4 X 6" SCREW @ 5" OC STAGGERED	3X SILL PL W/ 5/8" DIA AB @ 12" OC (EMBEDMENT = 7")	SEE NOTE 9 BELOW

SHEAR WALL GENERAL NOTES (APPLICABLE TO ALL SHEAR WALL TYPES):

1. IF ANCHOR BOLT SPACING IS GREATER THAN SHEAR WALL LENGTH INSTALL (1) ANCHOR WITHIN 12" OF EACH END AS PER OSSC SECTION 2308.6.
2. REFERENCE PLANS FOR FRAMING REQUIREMENTS AT WOOD BEARING WALLS AND SHEAR WALLS. SHEAR WALL FRAMING TO BE 16" OC UNLESS NOTED OR DETAILED OTHERWISE ON PLANS.
3. SHEAR WALLS ARE TO BE BLOCKED AT ALL PANEL EDGES UNLESS NOTED OR DETAILED OTHERWISE.
4. ALL NAILS STATED ARE COMMON NAILS UNLESS NOTED OTHERWISE. 10D GALVANIZED BOX NAILS SHALL BE SUBSTITUTED FOR THE 10D COMMON NAILS INTO THE PT SILL PLATE.
   - 10D COMMON = 0.148" X 3"
   - 10D GALVANIZED BOX = 0.128" X 3"
   - 16D COMMON = 0.162" X 3-1/2"
   - 16D GALVANIZED BOX = 0.135" X 3-1/2"
5. LTP4 CLIPS SHALL BE INSTALLED W/ (12) 8D COMMON NAILS.
6. ANCHOR BOLTS SHALL BE GALVANIZED AND SHALL HAVE A 1/4"X3"X3" GALVANIZED PLATE WASHER BETWEEN THE SILL PL AND NUT. REFERENCE DETAILS 3/S801, 4/S801, 5/S801, 7/S801 FOR PLACEMENT REQUIREMENTS OF AB AND PL WASHER.
7. PENETRATIONS GREATER THAN 4" WIDE AND 4" TALL IN THE SHEATHING OF SHEAR WALLS SHALL NOT OCCUR UNLESS APPROVED BY THE ENGINEER OF RECORD. PNETRATIONS SMALLER THAN 4" WIDE AND 4" TALL SHALL BE BLOCKED ABOVE AND BELOW (STUD-TO-STUD) AND EDGE NAILED.
8. REFERENCE THE HOLDOWN SCHEDULE OR CONTINUOUS THREADED ROD HOLDOWN SCHEDULE (WHICHEVER APPLIES) FOR END POST REQUIREMENTS AT EACH END OF SHEAR WALLS. PROVIDE PANEL EDGE NAILING TO END POSTS.

NOTES SPECIFIC TO SPECIFIED SHEAR WALL TYPES:

9. FRAMING ALONG ADJOINING PANEL EDGES SHALL BE 3X NOMINAL OR GREATER AND NAILS SHALL BE STAGGERED.

BEAM SCHEDULE

MARK	BEAM SIZE	COLUMN TYPE (UNO)	HANGERS	COMMENTS
B1	6-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B2	6-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B3	8-3/4" X 22 1/2" GL	PER PLAN	REFERENCE PLAN FOR CONNECTION	FRR - SEE STRUCTURAL NOTES S002b
B4	6-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B5	8-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B6	5-1/8" X 10-1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B7	5-1/8" X 16 1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B8	8-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B9	8-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B10	4" X 10" DF # 2	(1)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B11	5-1/8" X 9" GL	(2)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B12	5-1/8" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B13	5-1/8" X 18" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B14	5-1/8" X 19-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B15	5-1/2" X 12" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b

BEAM SCHEDULE NOTES:

1. USE COLUMN INDICATED ON THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. BUILT-UP POSTS TO BE FASTENED TOGETHER PER 7/S600
3. WHERE BEAM FRAMES INTO END OF 7 1/4" DEMISING WALL, USE 2x8.
4. RICON S VS 200/80 AND RICON S VS 290/80 CONNECTORS: SEE 32/S602 FOR TYPICAL SCREW CONNECTION. WHERE TWO CONNECTIONS OCCUR ON OPPOSITE FACES OF COLUMN AND COLUMN IS LESS THAN 8" WIDE A THRU BOLT CONNECTION IS REQUIRED PER 33/S602.

FOOTING SCHEDULE

	SIZE	REINFORCING	NOTES
1	1'-6" WIDE x 12" DEEP x CONT	(2) #5 CONT LONGITUDINAL AND #4 TRANSVERSE @ 16" OC TOP & BOTTOM	
2	2'-0" WIDE x 20" DEEP x CONT	(4) #5 CONT LONGITUDINAL TOP AND BOTTOM. #5 TRANSVERSE @ 8" OC TOP & BOTTOM	
3	2'-6" WIDE x 20" DEEP x CONT	(5) #6 CONT LONGITUDINAL TOP AND BOTTOM. #5 TRANSVERSE @ 8" OC TOP & BOTTOM	
4	4'-0" x 4'-0" x 20"	(5) #6 EQ SPACED EACH DIRECTION AT BOTTOM	
5	6'-0" x 6'-0" x 20"	(7) #6 EQ SPACED EACH DIRECTION AT BOTTOM	
6	3'-6" WIDE x 20" DEEP x CONT	(7) #6 CONT LONGITUDINAL TOP AND BOTTOM. #5 TRANSVERSE @ 8" OC TOP & BOTTOM. TRANSVERSE BAR NOT REQUIRED WHERE HOOPS OCCUR PER 14/S501 GRIDE F-E	
7	2'-6" WIDE x 20" DEEP x CONT	(5) #5 LONGITUDINAL TOP & BOTTOM. HOOPS PER 10/S500	
8	2'-0" WIDE x 20" DEEP x CONT	(4) #5 LONGITUDINAL TOP AND BOTTOM. HOOPS PER 14/S501	

FOUNDATION PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.
C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.
D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.
E ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOILS OR ENGINEERED FILL PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
F SUBGRADE REQUIREMENTS, UNDERSLAB VAPOR BARRIER AND PERIMETER FOUNDATION DRAINAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.
G STEP FOOTINGS, WHERE REQUIRED, FROM ELEVATION TO ELEVATION IN ACCORDANCE DETAIL 5/S500.
H THE CONTRACTOR IS TO LAYOUT CONCRETE SLAB CONTROL JOINTS PER THE CRITERIA IN THE "CONCRETE" SECTION OF THE GENERAL STRUCTURAL NOTES AND DETAIL 6/S500. THE CONTRACTOR MUST SUBMIT A CONTROL JOINT PLAN TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL AT LEAST (10) BUSINESS DAYS PRIOR TO SLAB POUR.
I REFERENCE THE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND LOCATIONS WHERE CHANGES IN SLAB ELEVATION OCCUR.
J ANCHOR BOLTS AND PLATE WASHERS AT SHEAR WALLS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS INDICATED IN DETAIL 3/S801.
K PLACE REINFORCING BARS AT CORNERS AND INTERSECTIONS FOR FOUNDATIONS. BARS AT CORNERS AND INTERSECTIONS SHALL BE EQUAL IN SIZE, NUMBER AND SPACING TO HORIZONTAL REINFORCING.

FLOOR FRAMING PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR THE CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.
C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.
D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.
E WOOD FRAMED SHEAR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 1/S801.
F ALL STUDS AND POSTS IN UPPER WALLS SHALL ALIGN W/ A STUD OR POST OF THE SAME SIZE (MIN) IN LOWER WALLS DOWN TO PT SLAB
H REFERENCE DETAIL 6/S600 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING.
I REFERENCE DETAIL 7/S801 FOR WALL FRAMING AT CORNERS AND INTERSECTIONS, TYPICAL UNLESS NOTED OTHERWISE.
J REFERENCE DETAIL 7/S600 FOR NAIL LAMINATING REQUIREMENTS FOR BUILT-UP WOOD POSTS.
K REFERENCE DETAIL 8/S600 10 FOR TYPICAL HEADER CONSTRUCTION AT ALL WINDOW AND DOOR OPENINGS, TYPICAL UNLESS NOTED OTHERWISE.
L UNLESS NOTED OTHERWISE, ALL WOOD STUD BEARING WALL FRAMING SHALL BE 2x6 @ 1'-4" OC.
M SEE S206 FOR CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING
N SEE S205 FOR BEARING WALL CALLOUTS.

ROOF FRAMING PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR THE CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.
C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.
D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.
E UNLESS NOTED OTHERWISE, FLOOR SHEATHING AND NAILING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS IN THE "SHEATHING" SECTION OF THE GENERAL STRUCTURAL STRUCTURAL NOTES ON SHEET S002b.
F ALL STUDS AND POSTS IN UPPER WALLS SHALL ALIGN W/ A STUD OR POST OF THE SAME SIZE (MIN) IN LOWER WALLS DOWN TO PT SLAB.
G REFERENCE DETAIL 6/S600 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING.
H REFERENCE DETAIL 7/S801 FOR WALL FRAMING AT CORNERS AND INTERSECTIONS, TYPICAL UNLESS NOTED OTHERWISE.
I REFERENCE DETAIL 7/S600 FOR NAIL LAMINATING REQUIREMENTS FOR BUILT-UP WOOD POSTS.
J REFERENCE DETAIL 8/S600 FOR TYPICAL HEADER CONSTRUCTION AT ALL WINDOW AND DOOR OPENINGS, TYPICAL UNLESS NOTED OTHERWISE.
K SEE S206 FOR CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING
L SEE S205 FOR BEARING WALL CALLOUTS

BEARING WALL SCHEDULE

MARK	1ST LEVEL WALL		2ND LEVEL WALL		3RD LEVEL WALL		4TH LEVEL WALL	
	STUD SIZE AND GRADE	WALL TYPE	STUD SIZE AND GRADE	WALL TYPE	STUD SIZE AND GRADE	WALL TYPE	STUD SIZE AND GRADE	WALL TYPE
W1	1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION
W2	(2)-1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION
W3	(2)-1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION
W4	(3)-1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	(3)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION

HOLDOWN SCHEDULE FOR CONVENTIONAL AND CONTINUOUS THEADED ROD SYSTEM

MARK	HOLDOWN TYPE	HOLDOWN POST	HOLDOWN ATTACHMENT TO POST	ANCHOR ROD	ANCHOR ROD EMBEDMENT DEPTH, Le
1	HDU8-SDS2.5	4x6	(20) SDS 1/4" x 2-1/2"	USE A 7/8" DIA THREADED ROD EMBEDDED 10" INTO FTG WITH A 3/8"x1 1/2"x1 1/2" PLATE WASHER	1'-0"

	LEVEL 4					LEVEL 3					LEVEL 2					LEVEL 1					
MARK	CTF (LBS)	ITF (LBS)	CCF (LBS)	COMPRESSION MEMBER (EACH SIDE OF ROD)	HARDWARE	CTF (LBS)	ITF (LBS)	CCF (LBS)	COMPRESSION MEMBER (EACH SIDE OF ROD)	HARDWARE	CTF (LBS)	ITF (LBS)	CCF (LBS)	COMPRESSION MEMBER (EACH SIDE OF ROD)	HARDWARE	CTF (LBS)	ITF (LBS)	CCF (LBS)	COMPRESSION MEMBER (EACH SIDE OF ROD)	HARDWARE	ANCHORAGE TO FOUNDATION
2	3,300	3,300	3,900	2x6 DF #2	ROD ASSEMBLY	8,000	4,700	9,100	(2) 2x6 DF #2	ROD ASSEMBLY	13,900	5,900	15,700	(2) 2x6 DF #2	ROD ASSEMBLY	23,000	11,600	25,500	6x6 DF #1	ROD ASSEMBLY	1 -1/4" DIA ASTM A307 EMBEDDED 14" INTO FTG WITH A 3/4"x3 1/2"x3 1/2" PLATE WASHER, REF DETAIL 10/S802
3	5,000	5,000	5,500	2x6 DF #2	ROD ASSEMBLY	11,200	6,200	13,300	(2) 2x6 DF #2	ROD ASSEMBLY	20.100	8,900	23,700	4x6 DF #1	ROD ASSEMBLY	34,000	13,900	38,000	6x6 DF #1	ROD ASSEMBLY	1-1/4" DIA ASTM F1554 Grade 55 EMBEDDED INTO FTG AS SHOWN ON DETAIL 10/S802
4	--	--	--	--	--	7,100	7,100	7,700	2x6 DF #2	ROD ASSEMBLY	19,100	12,000	20,600	(2) 2x6 DF #2	ROD ASSEMBLY	38,000	18,900	40,500	6x6 DF #1	ROD ASSEMBLY	1 -3/8" DIA ASTM F1554 Grade 55 EMBEDDED INTO FTG AS SHOWN ON DETAIL 10/S802
5	3,800	3,800	4,200	2x6 DF #2	ROD ASSEMBLY	10,900	7,100	12,100	(2) 2x6 DF #2	ROD ASSEMBLY	21.200	10,300	23,000	4x6 DF #1	ROD ASSEMBLY	37,000	17,500	39,500	6x6 DF #1	ROD ASSEMBLY	1-3/8" DIA ASTM F1554 Grade 55 EMBEDDED INTO FTG AS SHOWN ON DETAIL 10/S802
6	5,300	5,300	7,800	2x6 DF #2	ROD ASSEMBLY	14,700	9,400	20,800	(2) 2x6 DF #2	ROD ASSEMBLY	28,400	13,700	38,200	6x8 DF #1	ROD ASSEMBLY	44,000	15,600	58,400	6x8 DF #1	ROD ASSEMBLY	1-1/2" DIA ASTM F1554 Grade 55 EMBEDDED INTO FTG AS SHOWN ON DETAIL 10/S802

HOLDOWN GENERAL NOTES:
CTF = CUMULATIVE TENSION FORCE REQUIRED FROM THE HOLDOWN.
ITF = INCREMENTAL TENSION FORCE REQUIRED FROM THE HOLDOWN AT THE LEVEL UNDER CONSIDERATION.
CCF = CUMULATIVE COMPRESSION FORCE AT COMPRESSION
MEMBERS.

1. HOLDOWNS SHALL BE A CONTINUOUS THREADED STEEL ROD SYSTEM WITH TAKE-UP DEVICES, BEARING PLATES AND ISOLATOR NUTS AT EACH FLOOR. SEE 6/S801 FOR TYPICAL LAYOUT
2. UPLIFT FORCES SHOWN ARE ALLOWABLE STRESS DESIGN FORCES (0.6D-0.7E OR 0.6D-0.6W).
3. PROVIDE THE POST LISTED EACH SIDE OF THE ROD SYSTEM (SEE DETAILS 4/S801, 5/S801, 7/S801, 8/S801 FOR TYPICAL INSTALLATION).
4. DOUBLE STUDS SHALL BE LAMINATED TOGETHER FOR FULL HEIGHT - REFERENCE 4/S611.
5. SHEAR WALL SHEATHING SHALL BE EDGE NAILED TO HOLDOWN POST EACH SIDE OF HOLDOWN WITH EDGE NAILING (STAGGER BETWEEN DOUBLE STUDS WHERE APPLICABLE).
6. ALL HOLDOWNS AND ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
7. SEE DETAILS 35/S602 AND 39/S602 FOR TYPICAL HOLDOWN ANCHORAGE TO PT SLAB.
8. THE MANUFACTURER OF THE HOLDOWN SYSTEM SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR REVIEW.
9. THE HOLDOWN SYSTEM SHALL BE ICC APPROVED UNDER THE CURRENT BUILDING CODE & ACCEPTANCE CRITERIA AC316.
10. THE DEFLECTION OF THE OVERTURNING ANCHORAGE (INCLUDING ROD ELONGATION, BEARING PL CRUSHING, BEARING PL BENDING, DEVICE ELONGATION, ETC) SHALL NOT EXCEED 0.200 INCHES PER FLOOR.
11. ANCHOR BOLTS SHALL NOT BE IN CONTACT WITH PRESSERVATIVE TREATED (PT) WOOD. PT WOOD PLATES SHALL HAVE OVERSIZE HOLES 1/4" MINIMUM, 3/8" MAXIMUM LARGER THAN ROD SIZE. AS AN ALTERNATE, THE ANCHOR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653.
12. DO NOT WELD PRODUCTS UNLESS THESE DRAWINGS SPECIFICALLY IDENTIFY A PRODUCT AS ACCEPTABLE FOR WELDING, OR UNLESS SPECIFIC APPROVAL FOR WELDING IS PROVIDED BY EOR SOME STEELS MAY HAVE POOR WELDABILITY & A TENDENCY TO CRACK WHEN WELDED. CRACKED STEEL WILL NOT CARRY LOAD & MUST BE REPLACED. NUTS & COUPLER SHALL NOT BE WELDED. (4)
13. COMPRESSION MEMBERS MAY BE DESIGNED BY THE CONTINUOUS THREADED ROD HOLDOWN MANUFACTURER FOR LOADS LISTED ABOVE.
14. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55, ASTM A36, OR ASTM A307 (Fu=58,000 PSI) UNO.

WOOD COLUMN SCHEDULE

MARK	BEAM SIZE	COMMENTS
C1	6x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C2	5-1/2" x 6" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C3	5-1/2" x 7-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C4	5-1/2" x 9" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C5	5-1/2" x 10-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C6	5-1/2" x 12" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C7	8-3/4" x 10-1/2" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C8	8-3/4" x 12" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C9	4x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C10	8-3/4" x 9" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING

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CENTRAL LOFTS

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PORTLAND, OR 97203

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 29, 1998 TIMOTHY T. TERICH
EXPIRES: 6-30-22

FROELICH ENGINEERS
17700 SW Upper Boones Ferry Rd.
Suite #115
Portland, Oregon 97224
Office: (503) 624-7005
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froelich-engineers.com | FE# 16-T149

City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

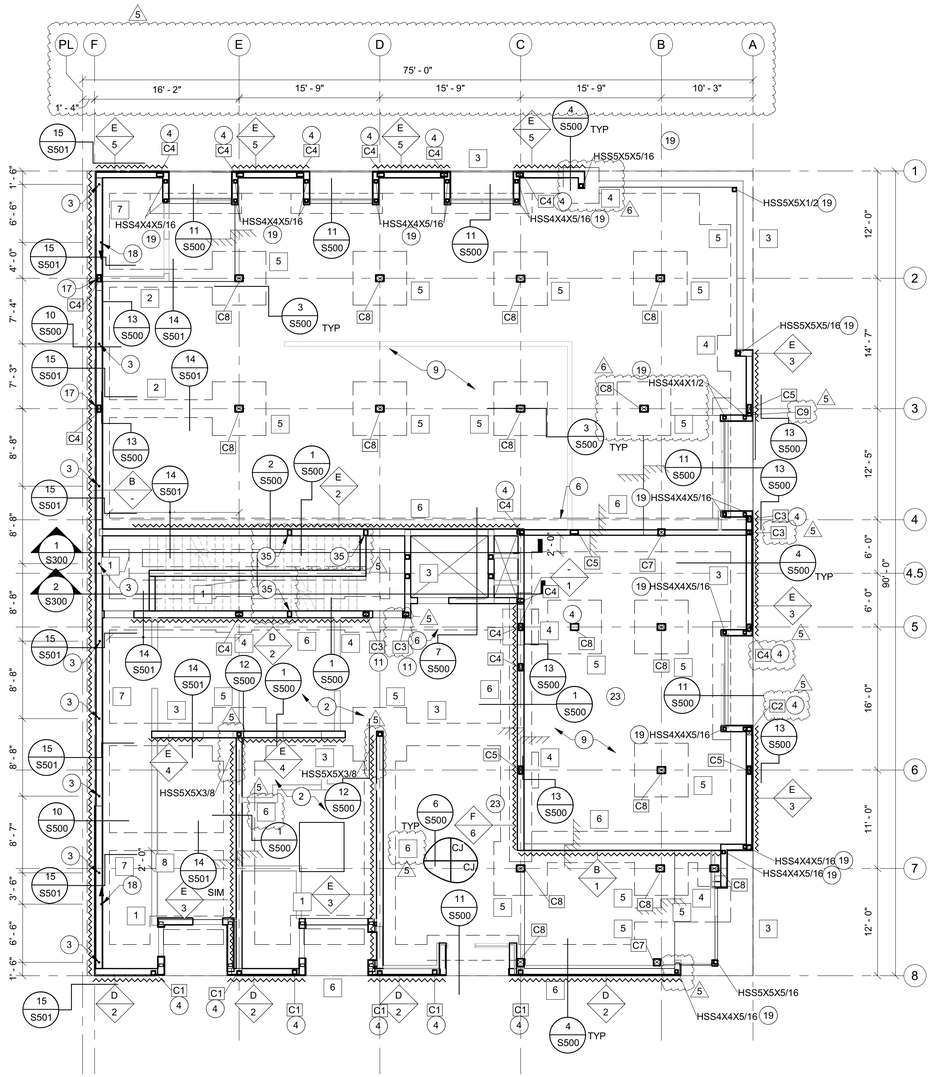
REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ADDENDUM 3	6.29.2018
3	PERMIT REVISION	11.16.2020
4	ASI #003	01.29.2021

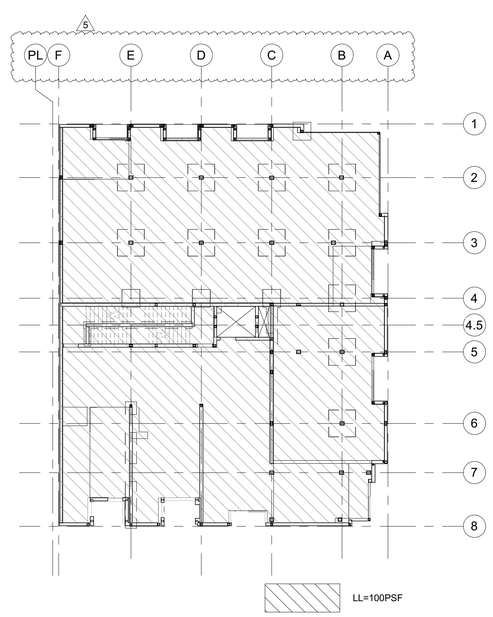
SCHEDULES

S003

SUBMITTED 2/26/21



1 S200 FOUNDATION/GROUND STORY FLOOR PLAN
1/8" = 1'-0"



2 S200 GROUND STORY - LOAD DIAGRAM FOR REQUIREMENTS OF OSSC 106.1
1/16" = 1'-0"

NOTE:
COLUMNS CALLED OUT ON 1/S200 OCCUR FROM 1ST FLOOR TO SECOND FLOOR

NORTH

FOUNDATION PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.

D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.

E ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOILS OR ENGINEERED FILL PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.

F SUBGRADE REQUIREMENTS, UNDERSLAB VAPOR BARRIER AND PERIMETER FOUNDATION DRAINAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE PROJECT GEOTECHNICAL REPORT.

G STEP FOOTINGS, WHERE REQUIRED, FROM ELEVATION TO ELEVATION IN ACCORDANCE DETAIL 5/S500.

H THE CONTRACTOR IS TO LAYOUT CONCRETE SLAB CONTROL JOINTS PER THE CRITERIA IN THE "CONCRETE" SECTION OF THE GENERAL STRUCTURAL NOTES AND DETAIL 6/S500. THE CONTRACTOR MUST SUBMIT A CONTROL JOINT PLAN TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL AT LEAST (10) BUSINESS DAYS PRIOR TO SLAB POUR.

I REFERENCE THE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND LOCATIONS WHERE CHANGES IN SLAB ELEVATION OCCUR.

J ANCHOR BOLTS AND PLATE WASHERS AT SHEAR WALLS SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS INDICATED IN DETAIL 3/S801.

K PLACE REINFORCING BARS AT CORNERS AND INTERSECTIONS FOR FOUNDATIONS. BARS AT CORNERS AND INTERSECTIONS SHALL BE EQUAL IN SIZE, NUMBER AND SPACING TO HORIZONTAL REINFORCING.

FOOTING SCHEDULE

	SIZE	REINFORCING	NOTES
1	1'-6" WIDE x 12" DEEP x CONT	(2) #5 CONT LONGITUDINAL AND #4 TRANSVERSE @ 16" OC TOP & BOTTOM	
2	2'-0" WIDE x 20" DEEP x CONT	(4) #5 CONT LONGITUDINAL TOP AND BOTTOM. #5 TRANSVERSE @ 8" OC TOP & BOTTOM	
3	2'-6" WIDE x 20" DEEP x CONT	(5) #6 CONT LONGITUDINAL TOP AND BOTTOM. #5 TRANSVERSE @ 8" OC TOP & BOTTOM	
4	4'-0" x 4'-0" x 20"	(5) #6 EQ SPACED EACH DIRECTION AT BOTTOM	
5	6'-0" x 6'-0" x 20"	(7) #6 EQ SPACED EACH DIRECTION AT BOTTOM	
6	3'-6" WIDE x 20" DEEP x CONT	(7) #6 CONT LONGITUDINAL TOP AND BOTTOM. #5 TRANSVERSE @ 8" OC TOP & BOTTOM. TRANSVERSE BAR NOT REQUIRED WHERE HOOPS OCCUR PER 14/S501 GRIDE F-E	
7	2'-6" WIDE x 20" DEEP x CONT	(5) #5 LONGITUDINAL TOP & BOTTOM. HOOPS PER 10/S500	
8	2'-0" WIDE x 20" DEEP x CONT	(4) #5 LONGITUDINAL TOP AND BOTTOM. HOOPS PER 14/S501	

WOOD COLUMN SCHEDULE

MARK	BEAM SIZE	COMMENTS
C1	6x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C2	5-1/2" x 6" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C3	5-1/2" x 7-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C4	5-1/2" x 9" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C5	5-1/2" x 10-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C6	5-1/2" x 12" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C7	8-3/4" x 10-1/2" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C8	8-3/4" x 12" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C9	4x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C10	8-3/4" x 9" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING

Structural Keyed Notes

2 4" CONCRETE SLAB-ON-GRADE WITH #3 BARS EACH WAY AT 16"OC.
3 VERTICAL MICROPILES PER DETAIL 10/S500. SEE PLAN FOR SPACING - MICROPILE DEPTH ESTIMATED AT +/- 35'-0".
4 COLUMN INDICATED WILL REPLACE ONE OF THE COMPRESSION MEMBER COLUMNS SPECIFIED IN THE HOLDOWN SCHEDULE ON SHEET S003.
6 SET FOOTINGS AT ELEVATION OF ELEVATOR FOUNDATION. STEP FOOTINGS DOWN PER 5/S500.
9 FUTURE CONCRETE SLAB-ON-GRADE. DEFFERED TO TI. SEE ARCHITECTURAL FOR ADDITIONAL INFO.
11 PROVIDE 1.5" X 5.5" LSL KING STUD WITH (8) 1/4"X3-1/2" SDS SCREWS TO HEADER. ATTACH TO COLUMN PER 7/S600.
17 ALIGN VERTICAL MICROPILE WITH COLUMN IN ADDITION TO THE MICROPILES SPECIFIED IN KEYED NOTE #3.
18 PROVIDE BATTERED MICROPILE AT AN ANGLE OF 40-60 DEGREES PARALLEL TO GRID F. BATTERED TOWARDS THE CENTER OF THE BUILDING AS INDICATED BY ARROW ON PLAN. MICROPILE DEPTH ESTIMATED AT +/- 35'-0" OFFSET BATTERED PILE 6" FROM CENTERLINE OF FOOTING TO AVOID CONFLICT WITH VERTICAL PILES
19 HSS CANOPY SUPPOPORT COLUMN. SEE S400 FOR BASE CONNECTION.
23 THREADED ROD HOLDOWN TYPE '6' PER HOLDOWN SCHEDULE OCCURS ALIGNED WITH SHEAR WALL ENDS AT 2ND FLOOR - ROOF. TYPE '1' HOLDOWN OCCURS AT FOUNDATION GRID 4.8-C.
5 35 BUILT-UP 2X POST IN WALL- MATCH WIDTH OF BEAM AT UPPER ROOF. ALIGN AT EACH LEVEL DOWN TO FOUNDATION.

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CENTRAL LOFTS

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH
EXPIRES: 6.30.22

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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

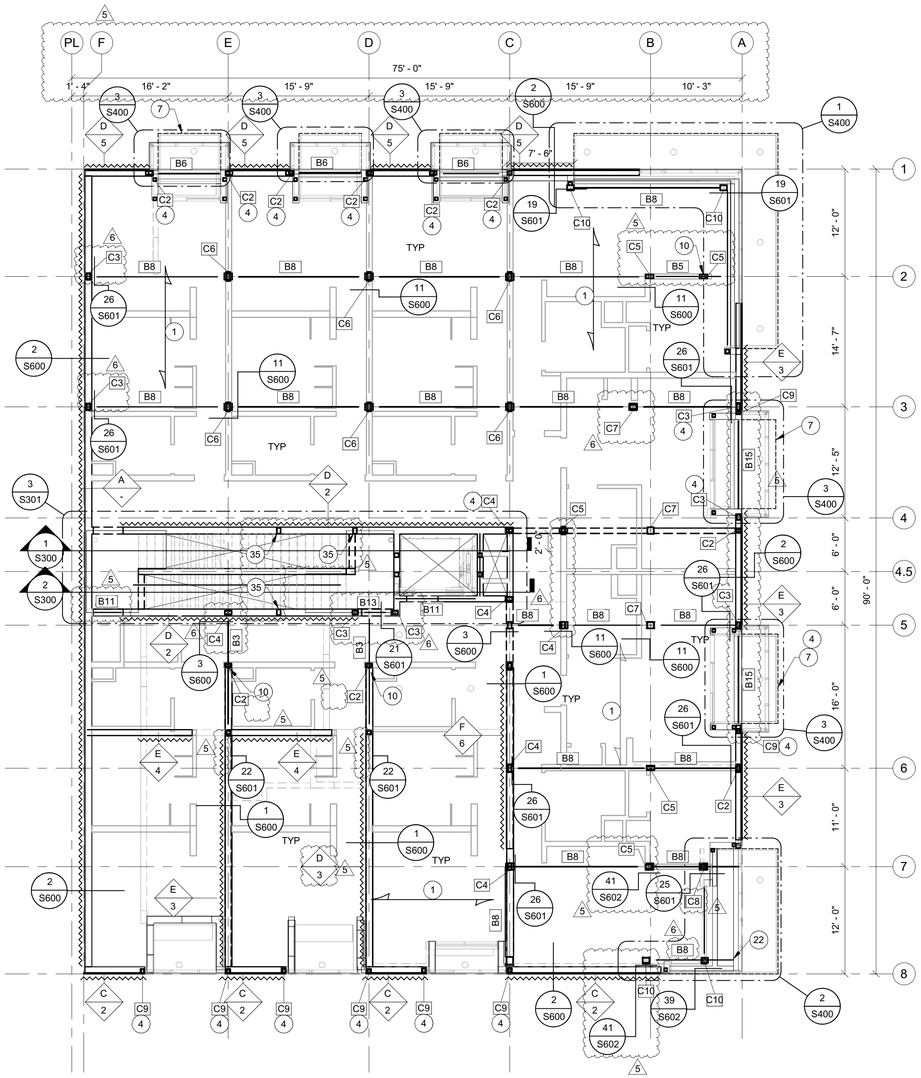
REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ADDENDUM 3	6.29.2018
3	ADDENDUM 5	10.15.2019
4	PERMIT REVISION	11.16.2020
5	ASI #003	01.29.2021
6	ASI 03 REV 1	02.15.2021

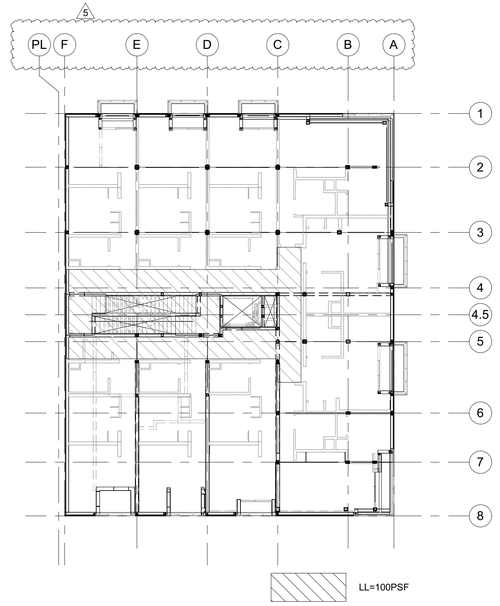
FOUNDATION PLAN

S200

SUBMITTED 2/26/21



1 S201 SECOND STORY FLOOR PLAN
1/8" = 1'-0"



2 S201 SECOND STORY - LOAD DIAGRAM FOR REQUIREMENTS OF OSSC 106.1
1/16" = 1'-0"

NOTE:
COLUMNS CALLED OUT ON 1/S201
OCCUR FROM 2nd FLOOR TO 3rd FLOOR

NORTH

FLOOR FRAMING PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR THE CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.

D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.

E WOOD FRAMED SHEAR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 1/S801.

F ALL STUDS AND POSTS IN UPPER WALLS SHALL ALIGN W/ A STUD OR POST OF THE SAME SIZE (MIN) IN LOWER WALLS DOWN TO PT SLAB

H REFERENCE DETAIL 6/S600 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING.

I REFERENCE DETAIL 7/S801 FOR WALL FRAMING AT CORNERS AND INTERSECTIONS, TYPICAL UNLESS NOTED OTHERWISE.

J REFERENCE DETAIL 7/S600 FOR NAIL LAMINATING REQUIREMENTS FOR BUILT-UP WOOD POSTS.

K REFERENCE DETAIL 8/S600 10 FOR TYPICAL HEADER CONSTRUCTION AT ALL WINDOW AND DOOR OPENINGS, TYPICAL UNLESS NOTED OTHERWISE.

L UNLESS NOTED OTHERWISE, ALL WOOD STUD BEARING WALL FRAMING SHALL BE 2x6 @ 1'-4" OC.

M SEE S206 FOR CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING

N SEE S205 FOR BEARING WALL CALLOUTS.

BEAM SCHEDULE

MARK	BEAM SIZE	COLUMN TYPE (UNO)	HANGERS	COMMENTS
B1	6-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B2	6-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B3	8-3/4" X 22 1/2" GL	PER PLAN	REFERENCE PLAN FOR CONNECTION	FRR - SEE STRUCTURAL NOTES S002b
B4	6-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B5	8-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B6	5-1/8" X 10-1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B7	5-1/8" X 16 1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B8	8-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B9	8-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B10	4" X 10" DF # 2	(1)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B11	5-1/8" X 9" GL	(2)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B12	5-1/8" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B13	5-1/8" X 18" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B14	5-1/8" X 19-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B15	5-1/2" X 12" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b

BEAM SCHEDULE NOTES:
1. USE COLUMN INDICATED ON THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. BUILT-UP POSTS TO BE FASTENED TOGETHER PER 7/S600
3. WHERE BEAM FRAMES INTO END OF 7 1/4" DEMISING WALL, USE 2x8.
4. RICON S VS 200/80 AND RICON S VS 290/80 CONNECTORS: SEE 32/S602 FOR TYPICAL SCREW CONNECTION. WHERE TWO CONNECTIONS OCCUR ON OPPOSITE FACES OF COLUMN AND COLUMN IS LESS THAN 8" WIDE A THRU BOLT CONNECTION IS REQUIRED PER 33/S602.

WOOD COLUMN SCHEDULE

MARK	BEAM SIZE	COMMENTS
C1	6x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C2	5-1/2" x 6" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C3	5-1/2" x 7-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C4	5-1/2" x 9" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C5	5-1/2" x 10-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C6	5-1/2" x 12" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C7	8-3/4" x 10-1/2" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C8	8-3/4" x 12" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C9	4x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C10	8-3/4" x 9" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING

Structural Keyed Notes

1 5-LAYER (6-7/8") CROSS LAMINATED TIMBER FLOOR PANEL WITH 1-3/4" MAX. TOPPING SLAB. SEE S206 LAYOUT FOR PANEL LAYOUT.

4 COLUMN INDICATED WILL REPLACE ONE OF THE COMPRESSION MEMBER COLUMNS SPECIFIED IN THE HOLDOWN SCHEDULE ON SHEET S003.

7 STEEL CANOPY.

10 INDICATES COLUMN ABOVE THAT IS SUPPORTED BY 2ND LEVEL BEAM.

22 HOLDBACK END OF BEAM 1'-0" FROM GRID A. END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

5 35 BUILT-UP 2X POST IN WALL- MATCH WIDTH OF BEAM AT UPPER ROOF. ALIGN AT EACH LEVEL DOWN TO FOUNDATION.

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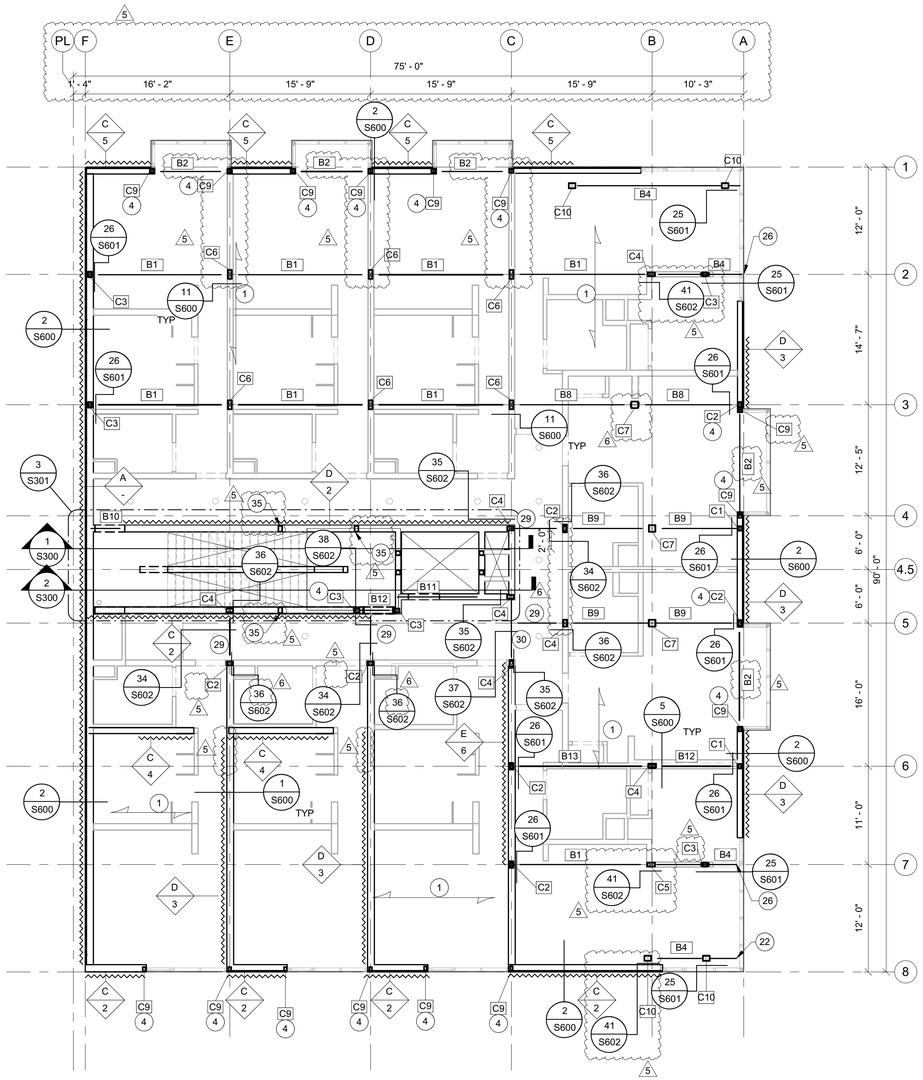
3	ADDENDUM 5	10.15.2019
4	PERMIT REVISION	11.16.2020
5	ASI #003	01.29.2021
6	ASI 03 REV 1	02.15.2021

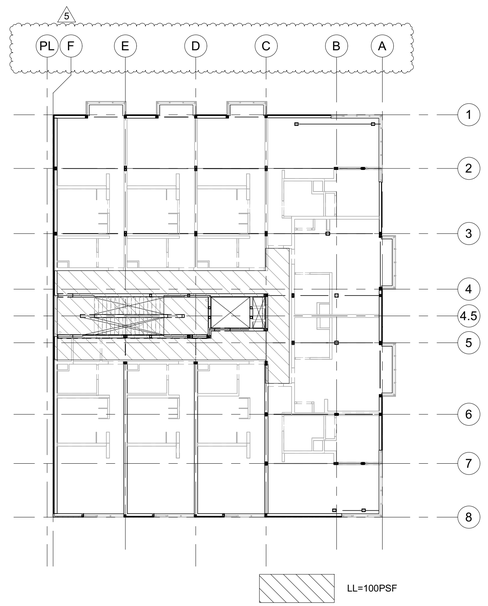
LEVEL 02 FLOOR FRAMING PLAN

S201

SUBMITTED 2/26/21



1 S202 3RD STORY FLOOR PLAN
1/8" = 1'-0"



2 S202 3RD STORY - LOAD DIAGRAM FOR REQUIREMENTS OF OSSC 106.1
1/16" = 1'-0"

NORTH

FLOOR FRAMING PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR THE CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.

D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.

E WOOD FRAMED SHEAR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 1/S801.

F ALL STUDS AND POSTS IN UPPER WALLS SHALL ALIGN W/ A STUD OR POST OF THE SAME SIZE (MIN) IN LOWER WALLS DOWN TO PT SLAB

H REFERENCE DETAIL 6/S600 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING.

I REFERENCE DETAIL 7/S801 FOR WALL FRAMING AT CORNERS AND INTERSECTIONS, TYPICAL UNLESS NOTED OTHERWISE.

J REFERENCE DETAIL 7/S600 FOR NAIL LAMINATING REQUIREMENTS FOR BUILT-UP WOOD POSTS.

K REFERENCE DETAIL 8/S600 10 FOR TYPICAL HEADER CONSTRUCTION AT ALL WINDOW AND DOOR OPENINGS, TYPICAL UNLESS NOTED OTHERWISE.

L UNLESS NOTED OTHERWISE, ALL WOOD STUD BEARING WALL FRAMING SHALL BE 2x6 @ 1'-4" OC.

M SEE S206 FOR CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING

N SEE S205 FOR BEARING WALL CALLOUTS.

BEAM SCHEDULE

MARK	BEAM SIZE	COLUMN TYPE (UNO)	HANGERS	COMMENTS
B1	6-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B2	6-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B3	8-3/4" X 22 1/2" GL	PER PLAN	REFERENCE PLAN FOR CONNECTION	FRR - SEE STRUCTURAL NOTES S002b
B4	6-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B5	8-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B6	5-1/8" X 10-1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B7	5-1/8" X 16 1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B8	8-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B9	8-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B10	4" X 10" DF # 2	(1)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B11	5-1/8" X 9" GL	(2)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B12	5-1/8" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B13	5-1/8" X 18" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B14	5-1/8" X 19-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B15	5-1/2" X 12" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b

BEAM SCHEDULE NOTES:

1. USE COLUMN INDICATED ON THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. BUILT-UP POSTS TO BE FASTENED TOGETHER PER 7/S600
3. WHERE BEAM FRAMES INTO END OF 7 1/4" DEMISING WALL, USE 2x8.
4. RICON S VS 200/80 AND RICON S VS 290/80 CONNECTORS: SEE 32/S602 FOR TYPICAL SCREW CONNECTION. WHERE TWO CONNECTIONS OCCUR ON OPPOSITE FACES OF COLUMN AND COLUMN IS LESS THAN 8" WIDE A THRU BOLT CONNECTION IS REQUIRED PER 33/S602.

WOOD COLUMN SCHEDULE

MARK	BEAM SIZE	COMMENTS
C1	6x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C2	5-1/2" x 6" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C3	5-1/2" x 7-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C4	5-1/2" x 9" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C5	5-1/2" x 10-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C6	5-1/2" x 12" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C7	8-3/4" x 10-1/2" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C8	8-3/4" x 12" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C9	4x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C10	8-3/4" x 9" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING

Structural Keyed Notes

1 5-LAYER (6-7/8") CROSS LAMINATED TIMBER FLOOR PANEL WITH 1-3/4" MAX. TOPPING SLAB. SEE S206 LAYOUT FOR PANEL LAYOUT.

4 COLUMN INDICATED WILL REPLACE ONE OF THE COMPRESSION MEMBER COLUMNS SPECIFIED IN THE HOLDOWN SCHEDULE ON SHEET S003.

22 HOLDBACK END OF BEAM 1'-0" FROM GRID A. END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

26 END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

29 HSS 5X5X5/16 BEAM

30 HSS 5X5X3/8 BEAM

5 35 BUILT-UP 2X POST IN WALL- MATCH WIDTH OF BEAM AT UPPER ROOF. ALIGN AT EACH LEVEL DOWN TO FOUNDATION.

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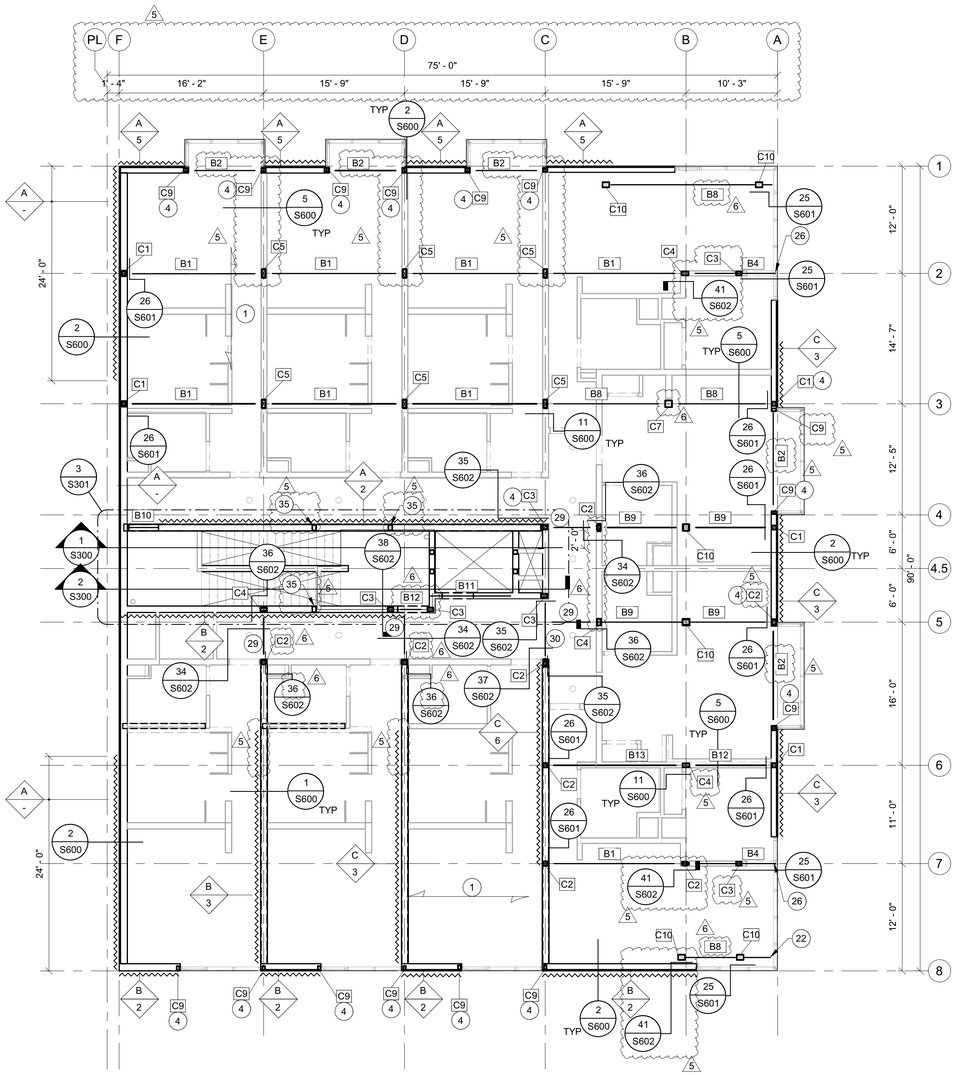
6	ASI 03 REV 1	02.15.2021

LEVEL 03 FLOOR FRAMING PLAN

S202

SUBMITTED 2/26/21



1 S203 4TH STORY FLOOR PLAN
1/8" = 1'-0"

2 S203 4TH STORY - LOAD DIAGRAM FOR REQUIREMENTS OF OSSC 106.1
1/16" = 1'-0"

NOTE:
COLUMNS CALLED OUT ON 1/S203
OCCUR FROM 4th FLOOR TO ROOF

NORTH

FLOOR FRAMING PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR THE CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

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D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.

E WOOD FRAMED SHEAR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 1/S801.

F ALL STUDS AND POSTS IN UPPER WALLS SHALL ALIGN W/ A STUD OR POST OF THE SAME SIZE (MIN) IN LOWER WALLS DOWN TO PT SLAB

H REFERENCE DETAIL 6/S600 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING.

I REFERENCE DETAIL 7/S801 FOR WALL FRAMING AT CORNERS AND INTERSECTIONS, TYPICAL UNLESS NOTED OTHERWISE.

J REFERENCE DETAIL 7/S600 FOR NAIL LAMINATING REQUIREMENTS FOR BUILT-UP WOOD POSTS.

K REFERENCE DETAIL 8/S600 10 FOR TYPICAL HEADER CONSTRUCTION AT ALL WINDOW AND DOOR OPENINGS, TYPICAL UNLESS NOTED OTHERWISE.

L UNLESS NOTED OTHERWISE, ALL WOOD STUD BEARING WALL FRAMING SHALL BE 2x6 @ 1'-4" OC.

M SEE S206 FOR CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING

N SEE S205 FOR BEARING WALL CALLOUTS.

BEAM SCHEDULE

MARK	BEAM SIZE	COLUMN TYPE (UNO)	HANGERS	COMMENTS
B1	6-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B2	6-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B3	8-3/4" X 22 1/2" GL	PER PLAN	REFERENCE PLAN FOR CONNECTION	FRR - SEE STRUCTURAL NOTES S002b
B4	6-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B5	8-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B6	5-1/8" X 10-1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B7	5-1/8" X 16 1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B8	8-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B9	8-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B10	4" X 10" DF # 2	(1)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B11	5-1/8" X 9" GL	(2)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B12	5-1/8" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B13	5-1/8" X 18" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B14	5-1/8" X 19-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B15	5-1/2" X 12" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b

BEAM SCHEDULE NOTES:

1. USE COLUMN INDICATED ON THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. BUILT-UP POSTS TO BE FASTENED TOGETHER PER 7/S600
3. WHERE BEAM FRAMES INTO END OF 7 1/4" DEMISING WALL, USE 2x8.
4. RICON S VS 200/80 AND RICON S VS 290/80 CONNECTORS: SEE 32/S602 FOR TYPICAL SCREW CONNECTION. WHERE TWO CONNECTIONS OCCUR ON OPPOSITE FACES OF COLUMN AND COLUMN IS LESS THAN 8" WIDE A THRU BOLT CONNECTION IS REQUIRED PER 33/S602.

WOOD COLUMN SCHEDULE

MARK	BEAM SIZE	COMMENTS
C1	6x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C2	5-1/2" x 6" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C3	5-1/2" x 7-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C4	5-1/2" x 9" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C5	5-1/2" x 10-1/2" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C6	5-1/2" x 12" GL COMB 3 (DF L2D)	IN WALL - COLUMN NOT FIRE RATED
C7	8-3/4" x 10-1/2" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C8	8-3/4" x 12" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING
C9	4x6 DF #1	IN WALL - COLUMN NOT FIRE RATED
C10	8-3/4" x 9" GL COMB 3 (DF L2D)	EXPOSED - 1 HR FIRE RATING

Structural Keyed Notes

1 5-LAYER (6-7/8") CROSS LAMINATED TIMBER FLOOR PANEL WITH 1-3/4" MAX. TOPPING SLAB. SEE S206 LAYOUT FOR PANEL LAYOUT.

4 COLUMN INDICATED WILL REPLACE ONE OF THE COMPRESSION MEMBER COLUMNS SPECIFIED IN THE HOLDOWN SCHEDULE ON SHEET S003.

22 HOLDBACK END OF BEAM 1'-0" FROM GRID A. END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

26 END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

29 HSS 5X5X5/16 BEAM

30 HSS 5X5X3/8 BEAM

5 35 BUILT-UP 2X POST IN WALL- MATCH WIDTH OF BEAM AT UPPER ROOF. ALIGN AT EACH LEVEL DOWN TO FOUNDATION.

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH EXPIRES: 6.30.22

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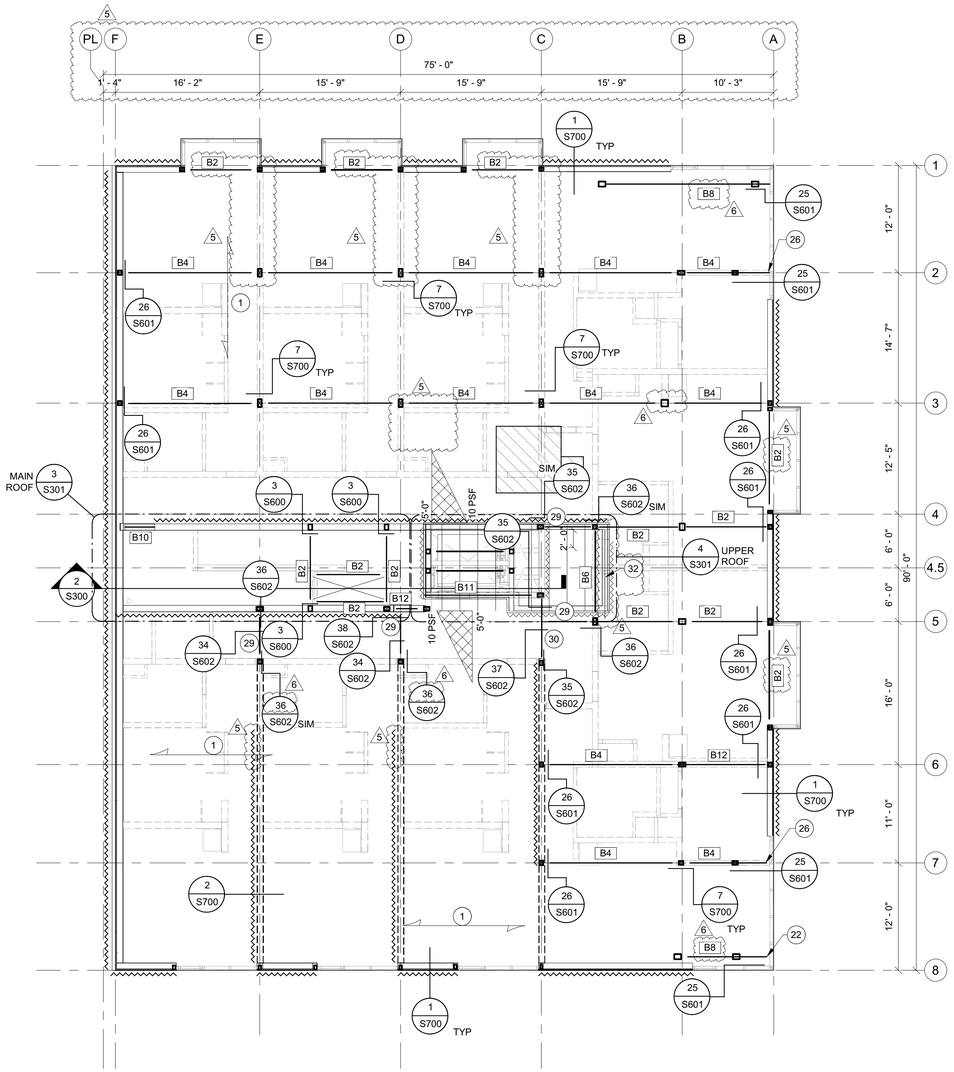
6	ASI 03 REV 1	02.15.2021

LEVEL 04 FLOOR FRAMING PLAN

S203

SUBMITTED 2/26/21



1 S204 ROOF PLAN
1/8" = 1'-0"

NORTH

ROOF FRAMING PLAN NOTES

A VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.

B DETAILS ON THESE PLANS ARE INTENDED TO DEPICT THE GENERAL CONSTRUCTION METHODS FOR THIS STRUCTURE. CONNECTIONS, DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN THAT ARE SIMILAR TO THOSE THAT ARE SPECIFIED SHALL BE ASSUMED ONE AND THE SAME. IF QUESTIONS REGARDING THE APPLICATION OF DETAILS ARE ENCOUNTERED, NOTIFY THE ARCHITECT / ENGINEER FOR THE CLARIFICATION IN A TIMELY MANNER PRIOR TO BID OPENING.

C FOR A COMPLETE LIST OF CALLOUTS & SYMBOLS SEE SHEET S001.

D FOR A COMPLETE LIST OF SCHEDULES SEE SHEET S003.

E UNLESS NOTED OTHERWISE, FLOOR SHEATHING AND NAILING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS IN THE "SHEATHING" SECTION OF THE GENERAL STRUCTURAL STRUCTURAL NOTES ON SHEET S002b.

F ALL STUDS AND POSTS IN UPPER WALLS SHALL ALIGN W/ A STUD OR POST OF THE SAME SIZE (MIN) IN LOWER WALLS DOWN TO PT SLAB.

G REFERENCE DETAIL 6/S600 FOR ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING.

H REFERENCE DETAIL 7/S801 FOR WALL FRAMING AT CORNERS AND INTERSECTIONS, TYPICAL UNLESS NOTED OTHERWISE.

I REFERENCE DETAIL 7/S600 FOR NAIL LAMINATING REQUIREMENTS FOR BUILT-UP WOOD POSTS.

J REFERENCE DETAIL 8/S600 FOR TYPICAL HEADER CONSTRUCTION AT ALL WINDOW AND DOOR OPENINGS, TYPICAL UNLESS NOTED OTHERWISE.

K SEE S206 FOR CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING

L SEE S205 FOR BEARING WALL CALLOUTS

BEAM SCHEDULE

MARK	BEAM SIZE	COLUMN TYPE (UNO)	HANGERS	COMMENTS
B1	6-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B2	6-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B3	8-3/4" X 22 1/2" GL	PER PLAN	REFERENCE PLAN FOR CONNECTION	FRR - SEE STRUCTURAL NOTES S002b
B4	6-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B5	8-3/4" X 16-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B6	5-1/8" X 10-1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B7	5-1/8" X 16 1/2" GL	PER PLAN	SIMPSON HUCQ	NOT FIRE RATED
B8	8-3/4" X 15" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B9	8-3/4" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b
B10	4" X 10" DF # 2	(1)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B11	5-1/8" X 9" GL	(2)2x6 CRIPPLE (2)2x6 KING (USE LSL AT 1ST LEVEL)		NOT FIRE RATED
B12	5-1/8" X 12" GL	PER PLAN	RICON S VS 200x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B13	5-1/8" X 18" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B14	5-1/8" X 19-1/2" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	NOT FIRE RATED
B15	5-1/2" X 12" GL	PER PLAN	RICON S VS 290x80 UNLESS NOTED OTHERWISE ON PLANS	FRR - SEE STRUCTURAL NOTES S002b

BEAM SCHEDULE NOTES:

1. USE COLUMN INDICATED ON THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.
2. BUILT-UP POSTS TO BE FASTENED TOGETHER PER 7/S600
3. WHERE BEAM FRAMES INTO END OF 7 1/4" DEMISING WALL, USE 2x8.
4. RICON S VS 200/80 AND RICON S VS 290/80 CONNECTORS: SEE 32/S602 FOR TYPICAL SCREW CONNECTION. WHERE TWO CONNECTIONS OCCUR ON OPPOSITE FACES OF COLUMN AND COLUMN IS LESS THAN 8" WIDE A THRU BOLT CONNECTION IS REQUIRED PER 33/S602.

Structural Keyed Notes

1 5-LAYER (6-7/8") CROSS LAMINATED TIMBER FLOOR PANEL WITH 1-3/4" MAX. TOPPING SLAB. SEE S206 LAYOUT FOR PANEL LAYOUT.

20 MECHANICAL UNIT. SEE MECHANICAL FOR ATTACHMENT AND ADDITIONAL INFORMATION. WEIGHT NOT TO EXCEED 1800 LBS.

22 HOLDBACK END OF BEAM 1'-0" FROM GRID A. END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

26 END OF BEAM IS VISIBLE. PROVIDE ARCHITECTURAL FINISH ON END OF BEAM.

29 HSS 5X5X5/16 BEAM

30 HSS 5X5X3/8 BEAM

32 6X8 DF #1 ALIGNED WITH WALL ABOVE. SIMPSON HUC68 HANGER AT ENDS WITH MAX NAILING.

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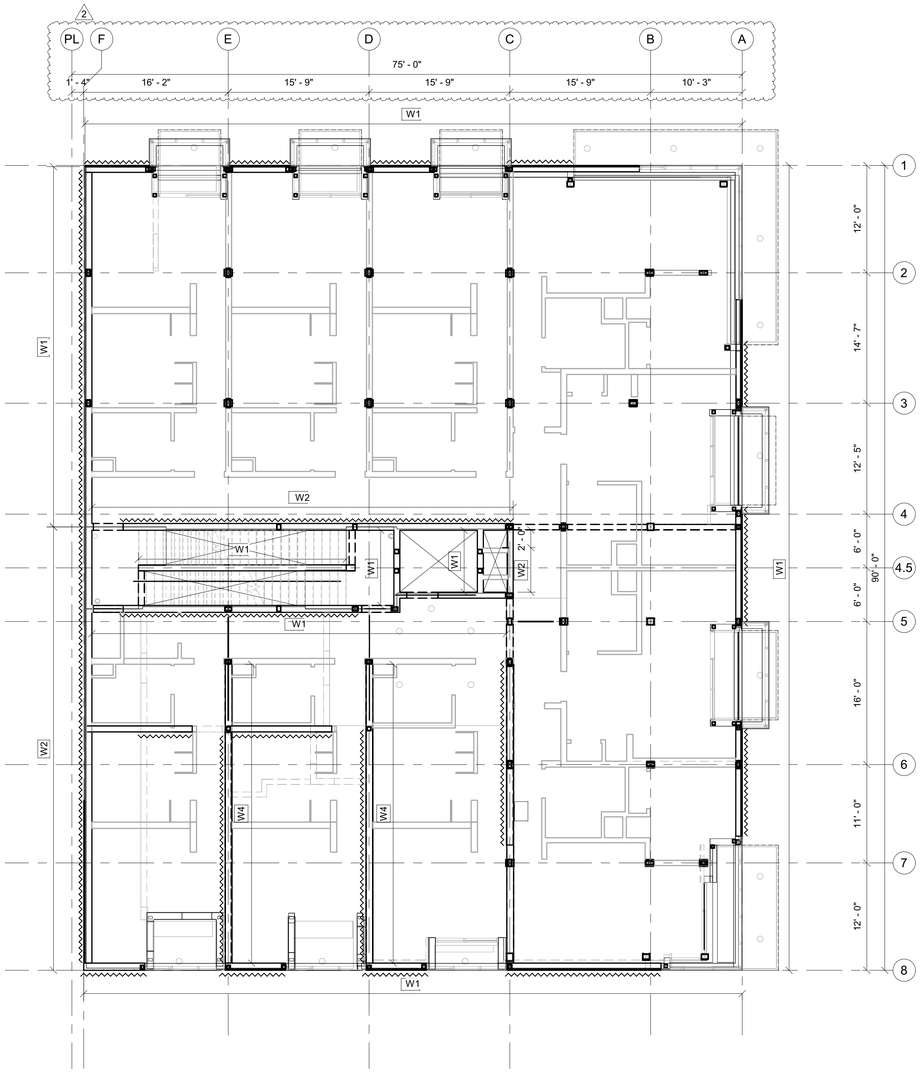
ROOF FRAMING PLAN

S204

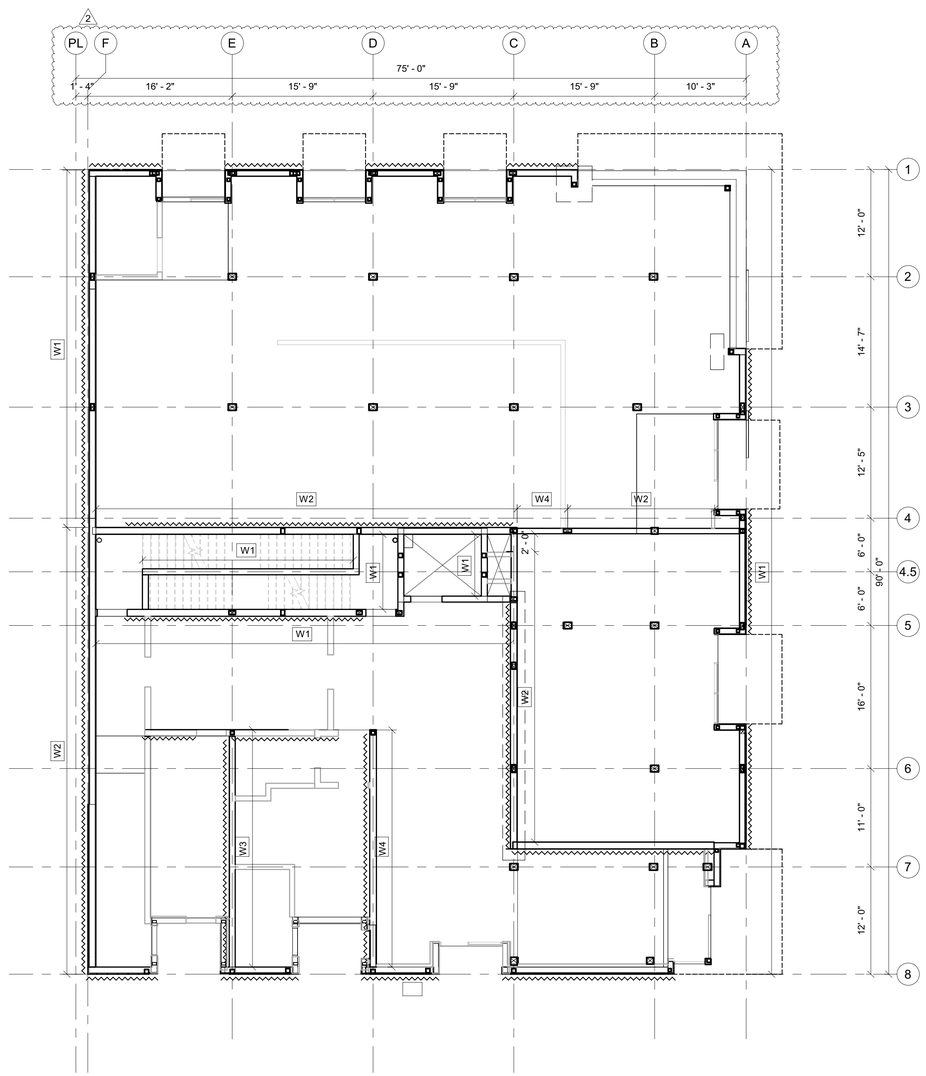
SUBMITTED 2/26/21

BEARING WALL SCHEDULE

MARK	1ST LEVEL WALL		2ND LEVEL WALL		3RD LEVEL WALL		4TH LEVEL WALL	
	STUD SIZE AND GRADE	WALL TYPE	STUD SIZE AND GRADE	WALL TYPE	STUD SIZE AND GRADE	WALL TYPE	STUD SIZE AND GRADE	WALL TYPE
W1	1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION
W2	(2)-1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION
W3	(2)-1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION
W4	(3)-1.5"x5.5" 1.5E LSL @ 16" OC	TYPICAL CONSTRUCTION	(3)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	(2)-2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION	2x6 DF#2 @ 16" OC	TYPICAL CONSTRUCTION



1 S205 2ND LEVEL TO 4TH LEVEL BEARING WALLS
1/8" = 1'-0"



2 S205 1ST LEVEL BEARING WALLS
1/8" = 1'-0"

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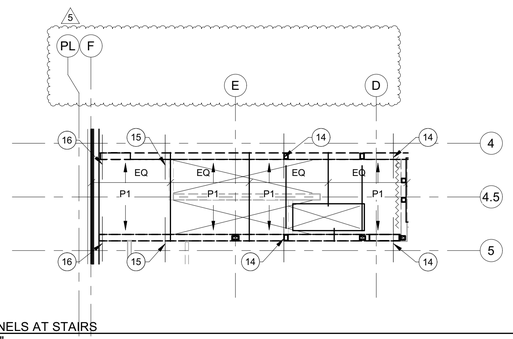
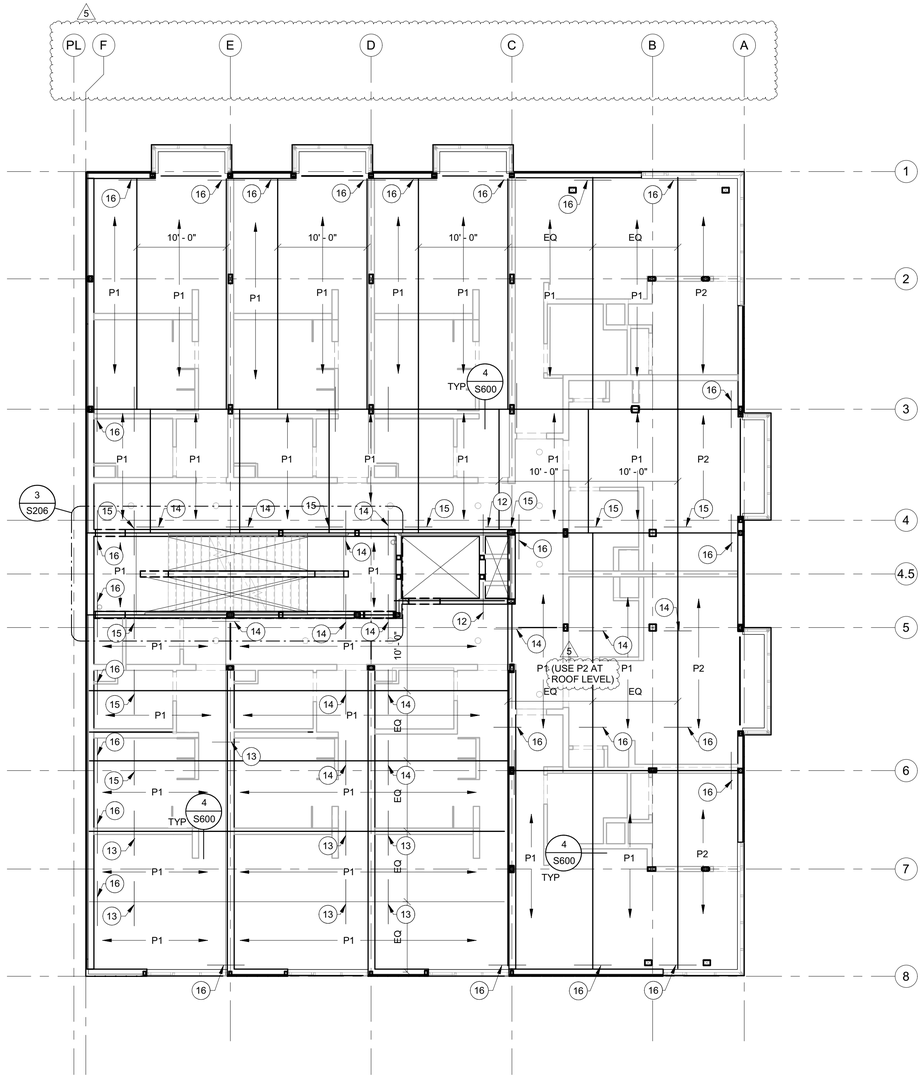
BEARING WALL LAYOUT

S205

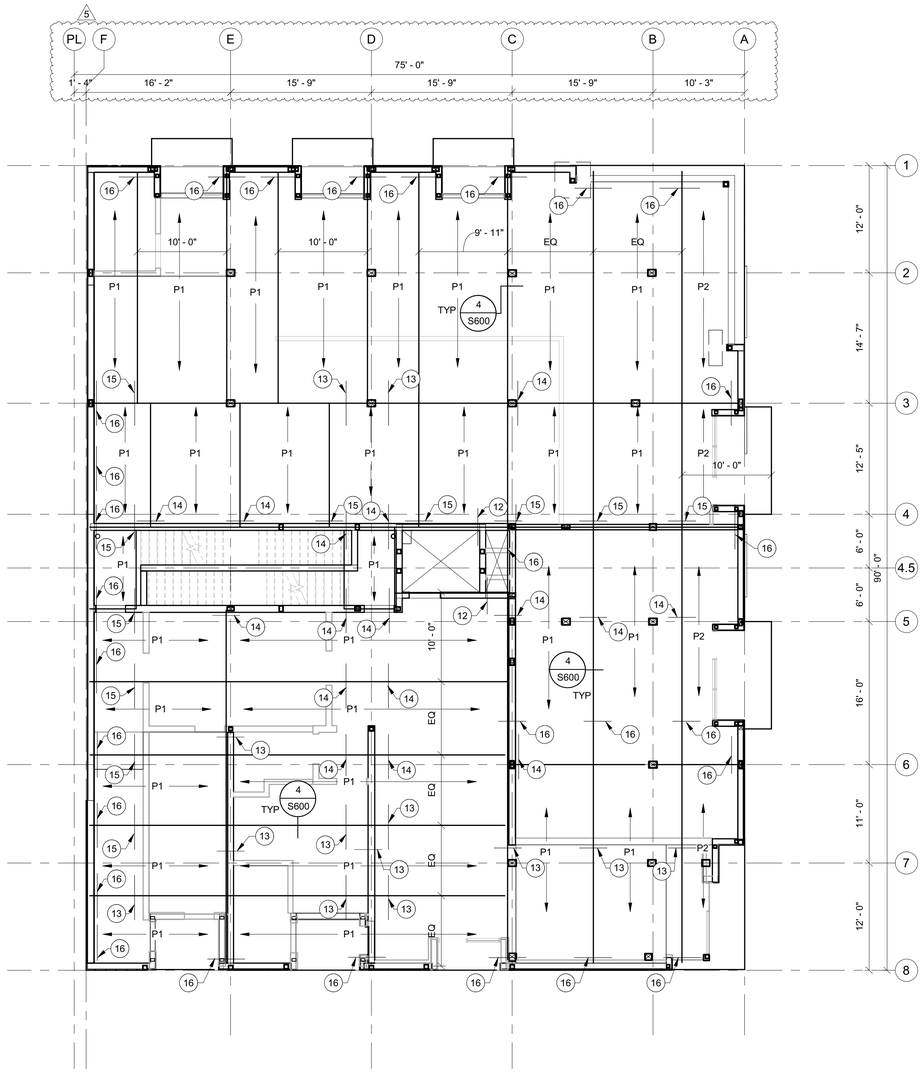
SUBMITTED 2/26/21



3 S206 ROOF PANELS AT STAIRS
1/8" = 1'-0"



1 S206 CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING 3RD - ROOF LEVEL
1/8" = 1'-0"



2 S206 CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING 2ND LEVEL
1/8" = 1'-0"

P1 INDICATES SMARTLAM BALANCED CLT PANEL. GRADE SL-V4 WITH 5-MAX LAYUP (6 7/8"). LAYOUT AND ORIENTATION OF STRONG AXIS AS SHOWN.

P2 INDICATES SMARTLAM BALANCED CLT PANEL. GRADE SL-V4 WITH 5-ALT LAYUP (6 7/8"). LAYOUT AND ORIENTATION OF STRONG AXIS AS SHOWN.

Structural Keyed Notes

12 SIMPSON ST6224 STRAP CENTERED AT CLT PANEL JOINT.
13 SIMPSON MST48 STRAP CENTERED AT CLT PANEL JOINT. PROVIDE (25) 0.162x3-1/2" NAILS EACH SIDE OF SPLACE. SEE 28/S602 FOR ALIGNMENT.
14 (2)SIMPSON MST48 STRAPS CENTERED AT CLT PANEL JOINT. PROVIDE (25) 0.162x3-1/2" NAILS EACH SIDE OF SPLACE PER STRAP. SEE 28/S602 FOR ALIGNMENT.
15 (3)SIMPSON MST48 STRAPS CENTERED AT CLT PANEL JOINT. PROVIDE (25) 0.162x3-1/2" NAILS EACH SIDE OF SPLACE PER STRAP. SEE 28/S602 FOR ALIGNMENT.
16 (4)SIMPSON MST48 STRAPS CENTERED AT CLT PANEL JOINT. PROVIDE (25) 0.162x3-1/2" NAILS EACH SIDE OF SPLACE PER STRAP. SEE 28/S602 FOR ALIGNMENT.

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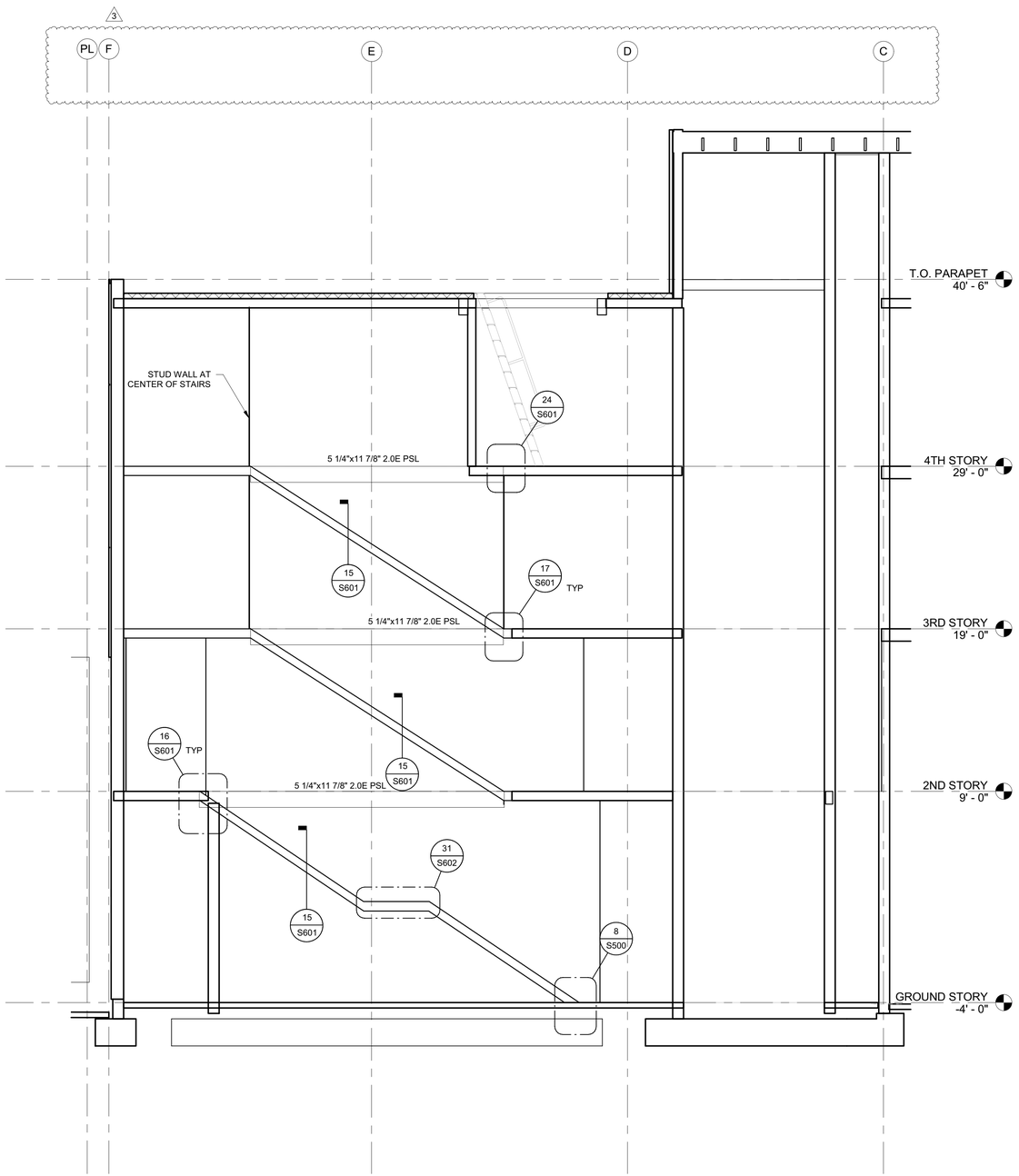
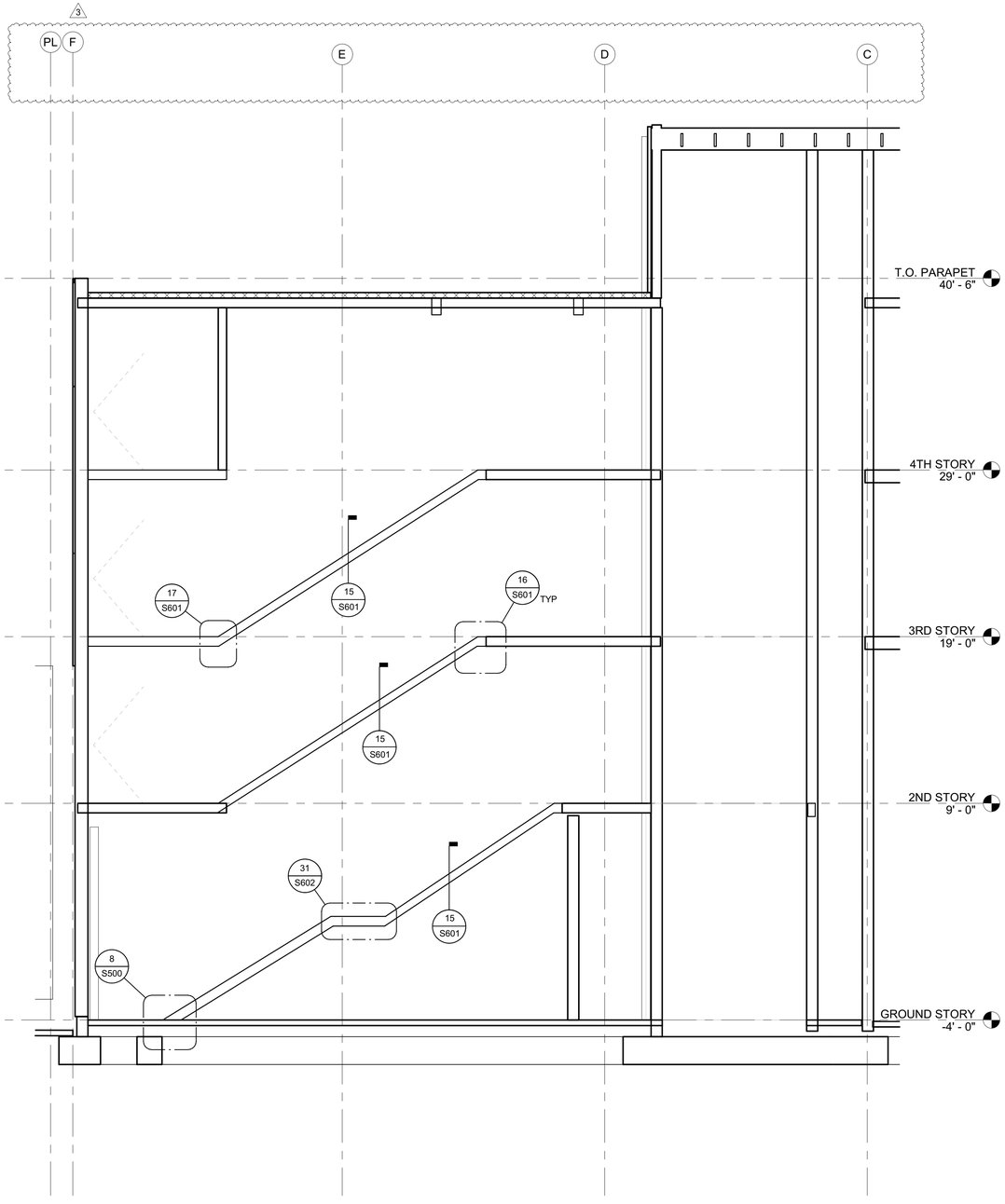
CLT PANEL LAYOUT AND DIAPHRAGM STRAPPING

S206

SUBMITTED 2/26/21



2 S300 STAIR B SECTION
1/4" = 1'-0"



1 S300 STAIR A SECTION
1/4" = 1'-0"

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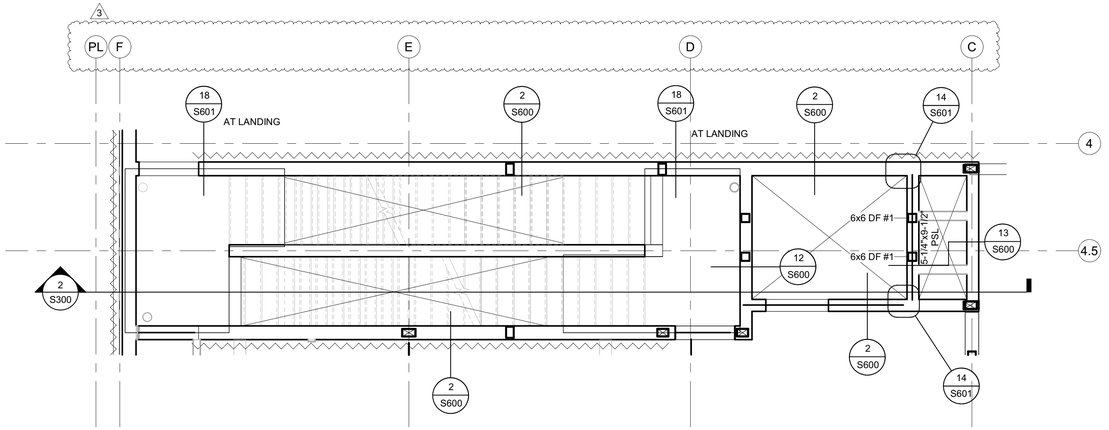
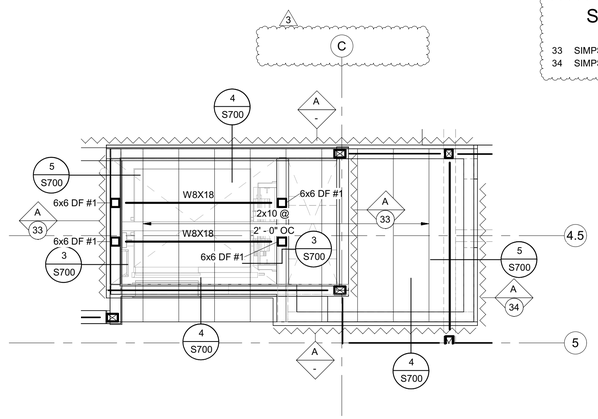
VERTICAL CIRCULATION

S300

SUBMITTED 2/26/21



3 S301 STAIR & ELEVATOR PARTIAL PLAN
1/4" = 1'-0"



3 4 S301 UPPER ROOF PARTIAL PLAN
1/4" = 1'-0"

Structural Keyed Notes

33 SIMPSON DTT2Z HOLDOWNS PER DETAIL 11/S802.
34 SIMPSON DTT2Z HOLDOWN PER DETAIL 12/S802.

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PARTIAL PLANS

S301

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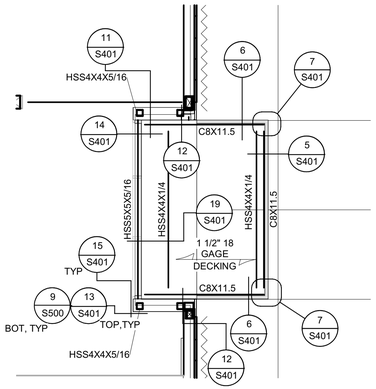
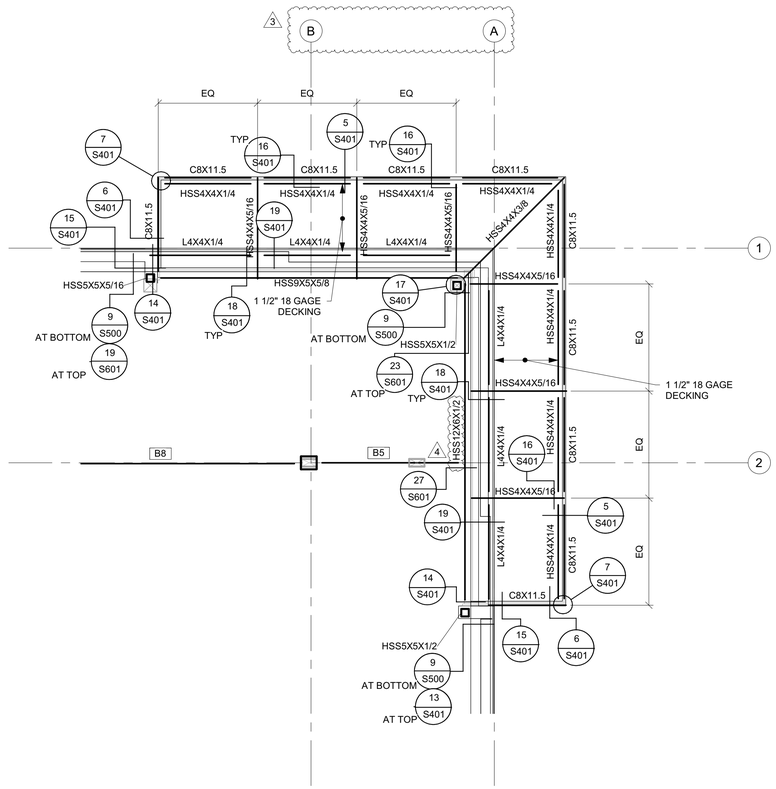
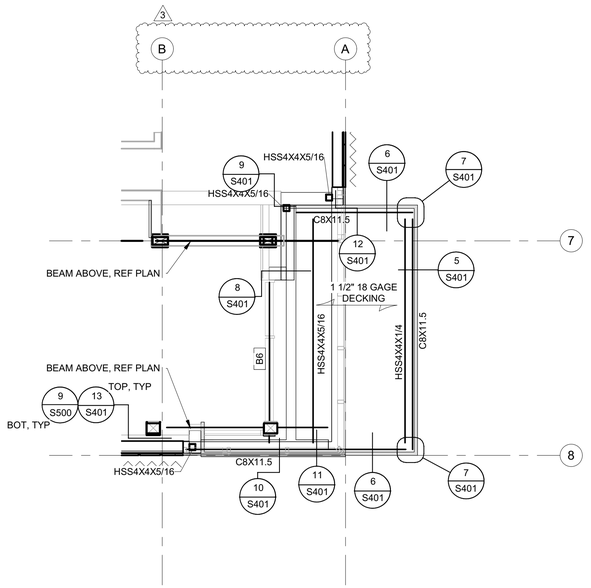


3 S400 CANOPY 3 - PARTIAL PLAN
1/4" = 1'-0"



1 S400 CANOPY 1 - PARTIAL PLAN
1/4" = 1'-0"



2 S400 CANOPY 2 - PARTIAL PLAN
1/4" = 1'-0"

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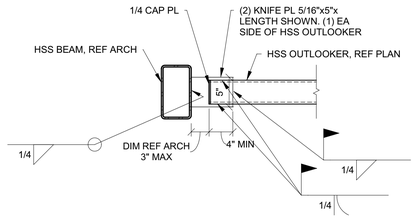
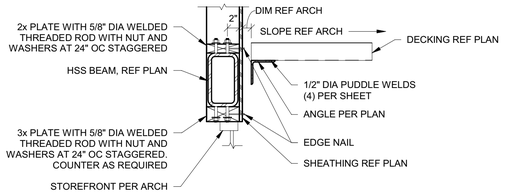
CANOPY FRAMING

S400

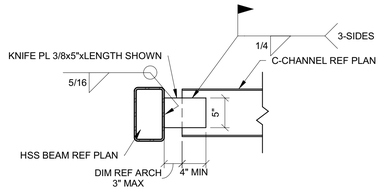
SUBMITTED 2/26/21



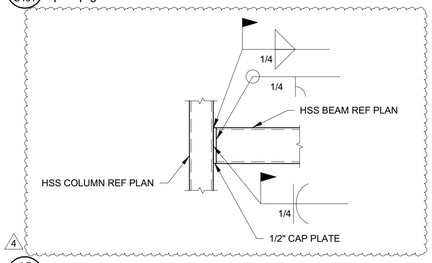
18 S401 CANOPY OUTLOOKER TO BEAM
1" = 1'-0"



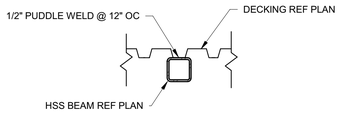
19 S401 CANOPY DECKING TO BEAM
1" = 1'-0"



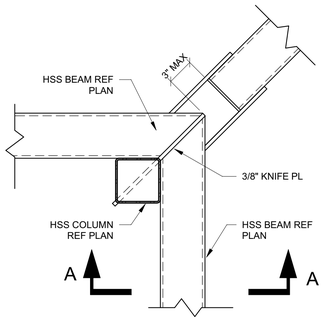
14 S401 CANOPY BEAM TO BEAM
1" = 1'-0"

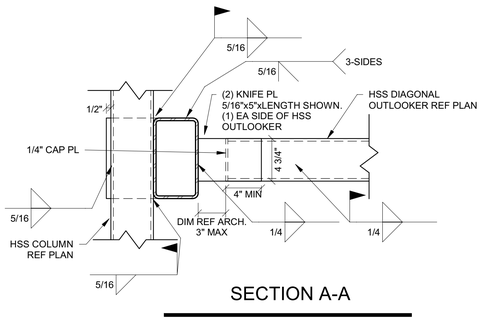


15 S401 CANOPY BEAM TO COLUMN
1" = 1'-0"



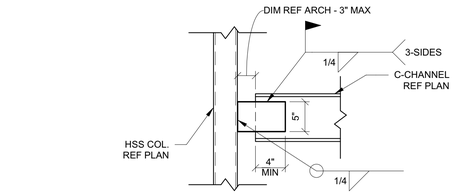
16 S401 CANOPY DECKING TO BEAM
1" = 1'-0"



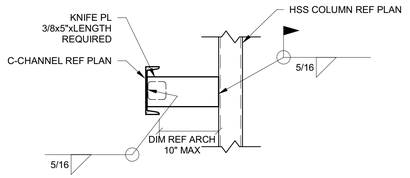


SECTION A-A

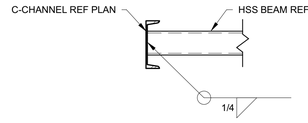
17 S401 CANOPY BEAM TO HSS COLUMN
1 1/2" = 1'-0"



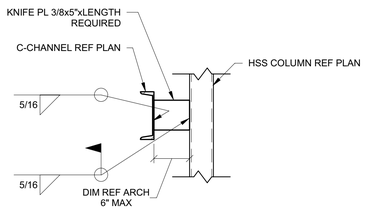
9 S401 CANOPY BEAM TO COLUMN
1" = 1'-0"



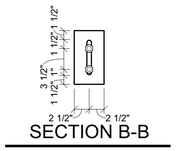
10 S401 CANOPY BEAM TO COLUMN
1" = 1'-0"



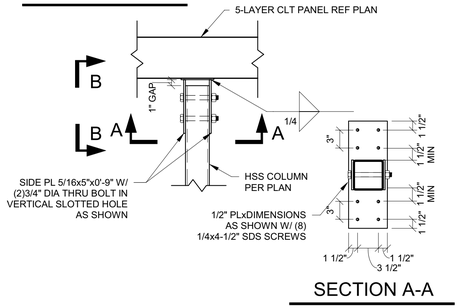
11 S401 CANOPY BEAM TO BEAM
1" = 1'-0"



12 S401 CANOPY BEAM TO COLUMN
1" = 1'-0"

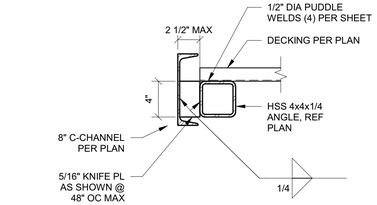


SECTION B-B

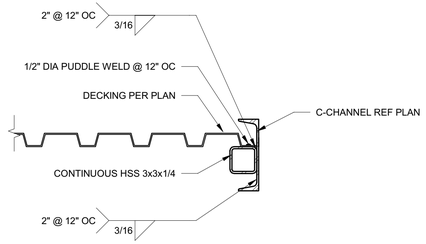


SECTION A-A

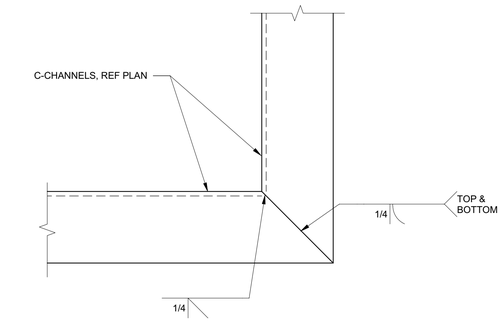
13 S401 CANOPY COLUMN TOP CONNECTION
1" = 1'-0"



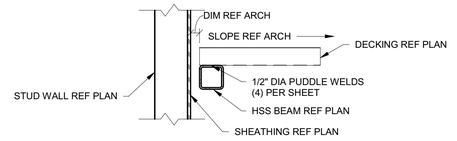
5 S401 FRAMING CONNECTION
1 1/2" = 1'-0"



6 S401 METAL DECKING TO FRAME
1 1/2" = 1'-0"



7 S401 C-CHANNEL AT CORNERS
3" = 1'-0"



8 S401 CANOPY DECKING TO BEAM
1" = 1'-0"

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CENTRAL LOFTS

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PORTLAND, OR 97203

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 29, 1998 TIMOTHY T. TERICH EXPIRES: 6.30.22

FROELICH ENGINEERS
17700 SW Upper Boones Ferry Rd.
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froelich-engineers.com | FE# 16-T149

City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

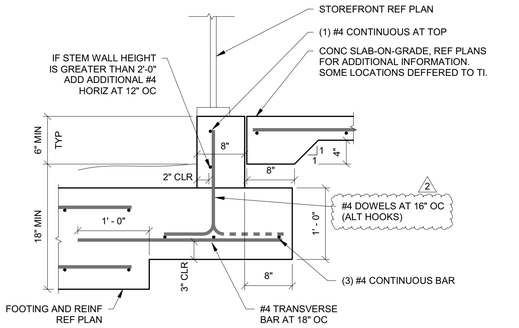
REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ADDENDUM 3	6.29.2018
3	PERMIT REVISION	11.16.2020
4	ASI 03 REV 1	02.15.2021

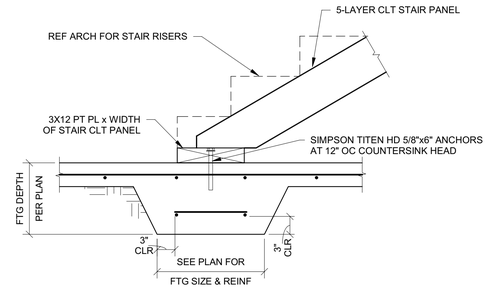
CANOPY FRAMING DETAILS

S401

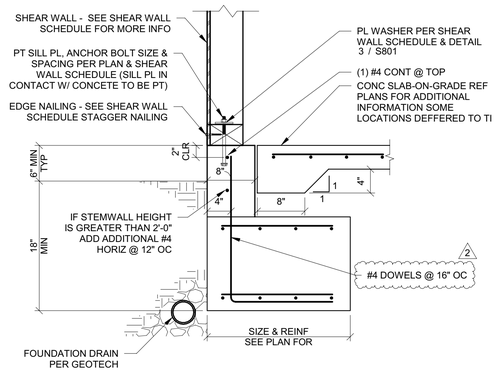
SUBMITTED 2/26/21



11 S500 EXTERIOR WALL AT FOUNDATION
1" = 1'-0"

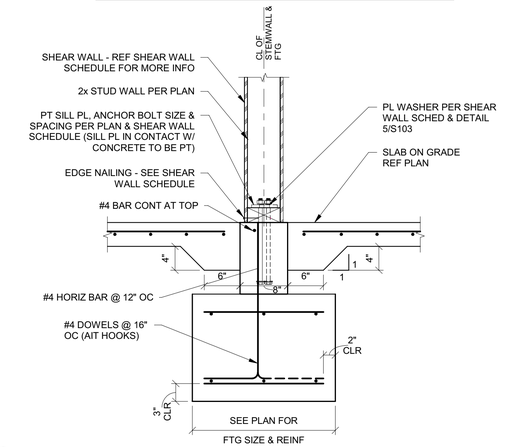


8 S500 CLT STAIR STRINGER TO THICKENED SLAB
1" = 1'-0"



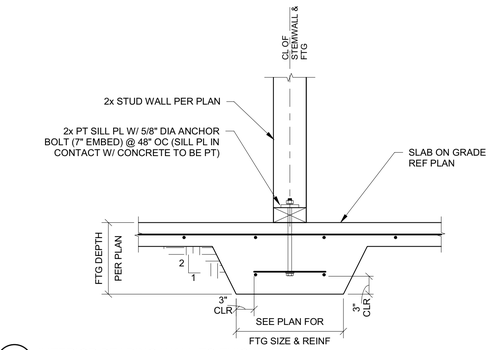
4 S500 EXTERIOR WALL AT FOUNDATION
1" = 1'-0"

CONTRACTOR'S OPTION:
REPLACE CAST-IN-PLACE ANCHOR BOLT WITH EITHER:
1. 5/8" DIA WEDGE BOLT, EMBED 5" MINIMUM (SAMPSON STRONG-BOLT OR HILTI KWIK BOLT TX)
OR
2. 5/8" DIA A307 THREADED ROD, EPOXY EMBED 5" MINIMUM (SIMPSON SET-XP OR HILTI RE 500 SD)

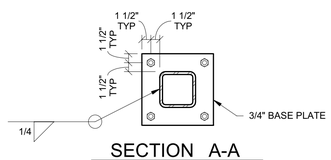


1 S500 INTERIOR SHEAR WALL TO THICKENED SLAB
1" = 1'-0"

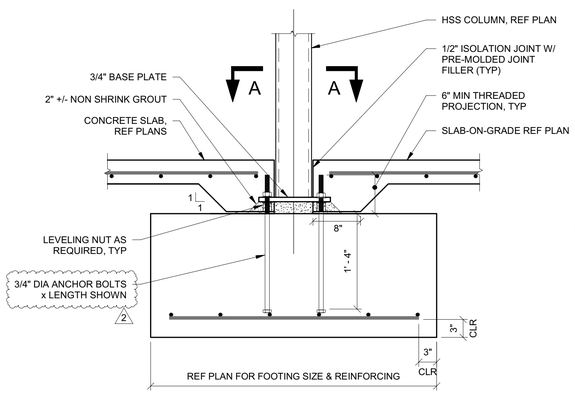
CONTRACTOR'S OPTION:
REPLACE CAST-IN-PLACE ANCHOR BOLT WITH EITHER:
1. 5/8" DIA WEDGE BOLT, EMBED 5" MINIMUM (SIMPSON STRONG-BOLT OR HILTI KWIK BOLT TX)
OR
2. 5/8" DIA A307 THREADED ROD, EPOXY EMBED 5" MINIMUM (SIMPSON SET-XP OR HILTI RE 500 SD)



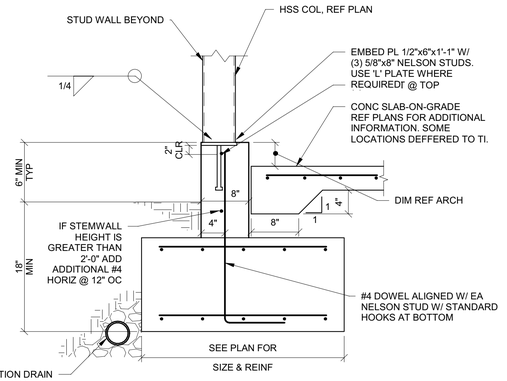
2 S500 INTERIOR BEARING WALL TO THICKENED SLAB
1" = 1'-0"



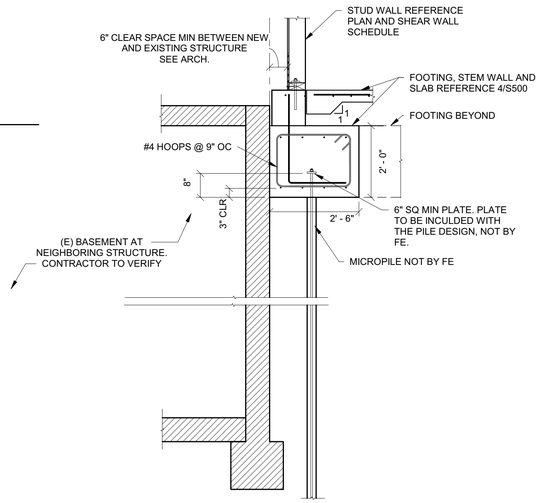
SECTION A-A



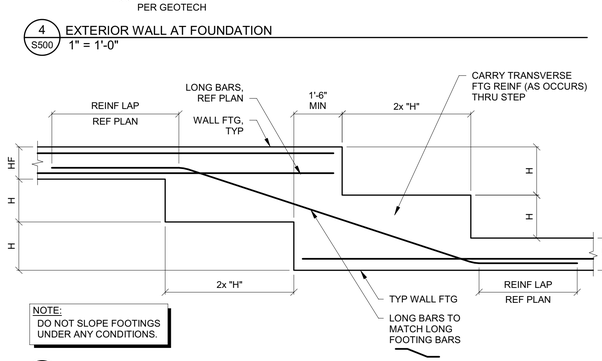
12 S500 INTERIOR HSS COLUMN TO FOOTING
1" = 1'-0"



9 S500 CANOPY COLUMN
1" = 1'-0"

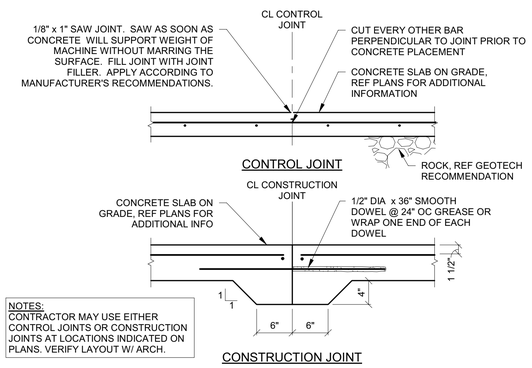


10 S500 FOUNDATION AT EXISTING STRUCTURE WITH MICRO PILES
1/2" = 1'-0"



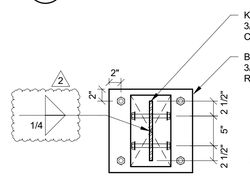
NOTE:
DO NOT SLOPE FOOTINGS UNDER ANY CONDITIONS.

5 S500 STEPPED FOOTING
1" = 1'-0"

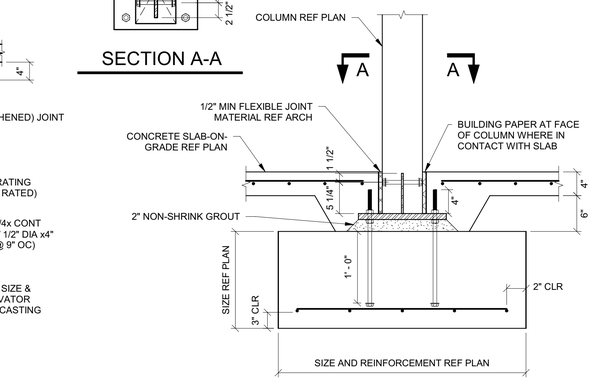


NOTES:
CONTRACTOR MAY USE EITHER CONTROL JOINTS OR CONSTRUCTION JOINTS AT LOCATIONS INDICATED ON PLANS. VERIFY LAYOUT W/ ARCH.

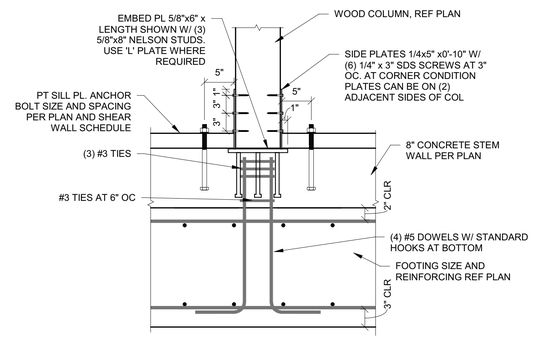
6 S500 SLAB JOINTS
1" = 1'-0"



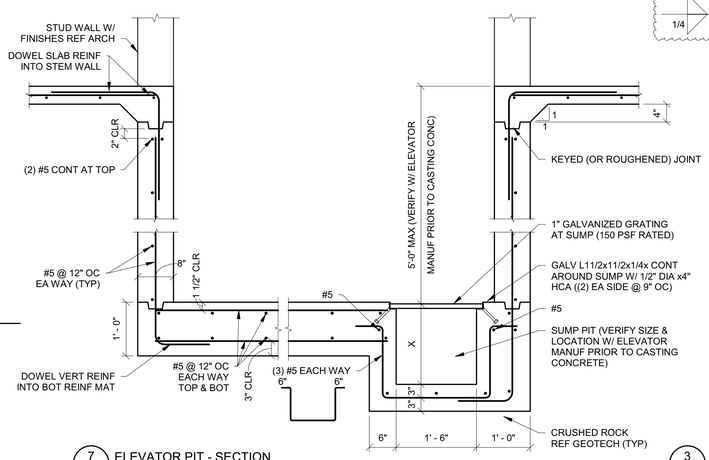
SECTION A-A



3 S500 GL COLUMN TO FOUNDATION
1" = 1'-0"



13 S500 COLUMN BASE CONNECTION AT IN-WALL CONDITION
1" = 1'-0"



7 S500 ELEVATOR PIT - SECTION
3/4" = 1'-0"

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8608 N LOMBARD ST
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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH
EXPIRES: 6.30.22

FROELICH ENGINEERS
17700 SW Upper Boones Ferry Rd Suite 115
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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PRICING SET

Issue Date: 10.12.2020

REVISIONS:

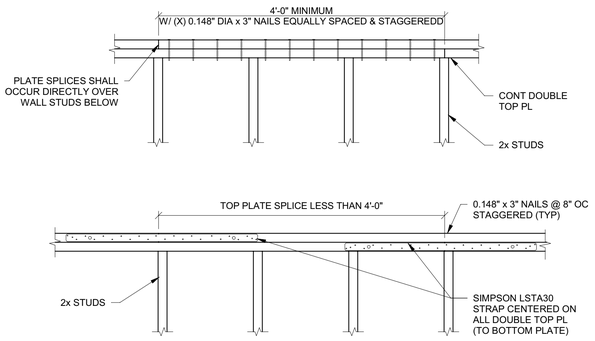
1	ADDENDUM 2	3.30.2018
2	PERMIT REVISION	11.16.2020

FOUNDATION DETAILS

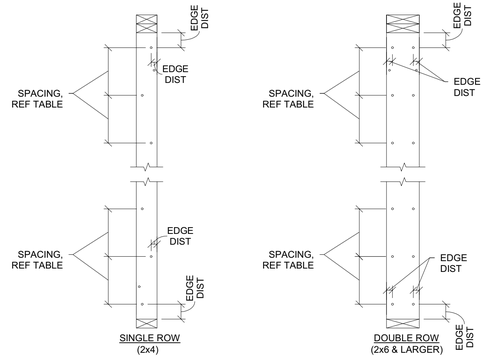
Sheet Name

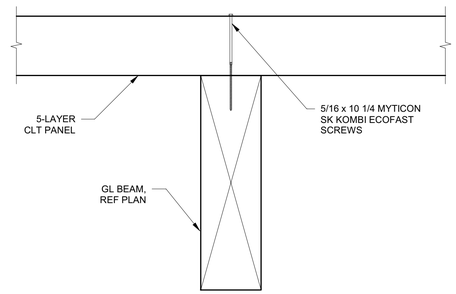
S500

Sheet Number

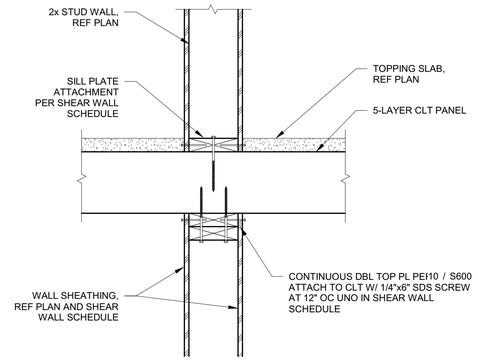


10 S600 TOP PLATE SPLICE DETAIL
1" = 1'-0"





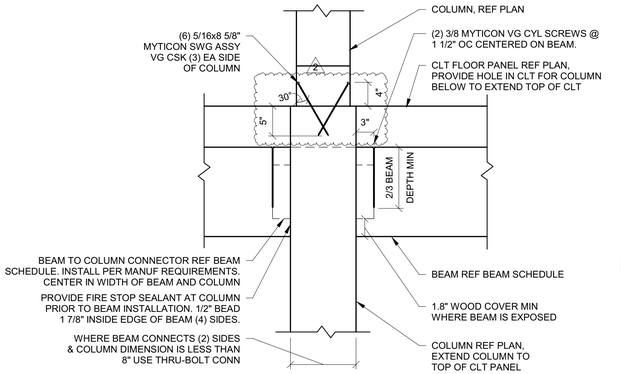
5 S600 CLT PANEL TO BEAM
1 1/2" = 1'-0"



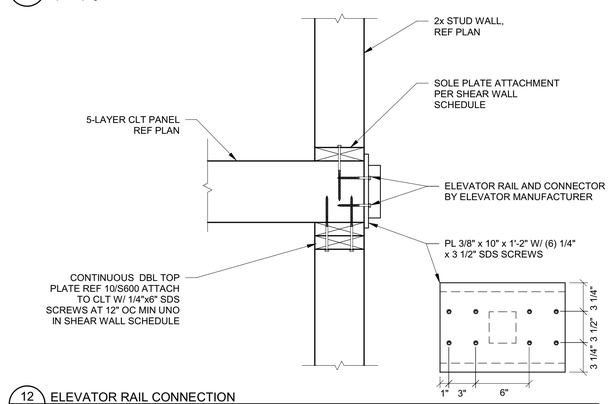
1 S600 CLT FLOOR TO INTERIOR BEARING WALL
1 1/2" = 1'-0"

BUILT-UP MEMBER	FASTENER SIZE	FASTENER SPACING	FASTENER END DIST	FASTENER EDGE DIST	ROWS OF FASTENERS
(2) 2x4	0.148"x3" NAIL	8"	2.5"	1"-1.5"	1 - STAGGER
(3) 2x4	0.148"x4 1/2" NAIL	8"	2.5"	1"-1.5"	1 - STAGGER
(4) OR MORE 2x4	1/2" DIA BOLT	9"	4"	1.5"	1 - STAGGER
(2) 2x6	0.148"x3" NAIL	8"	2.5"	1"-1.5"	2
(3) 2x6	0.148" x 4 1/2" NAIL	8"	2.5"	1"-1.5"	2
(4) OR MORE 2x6	1/2" DIA BOLT	9"	4"	1.25"	2

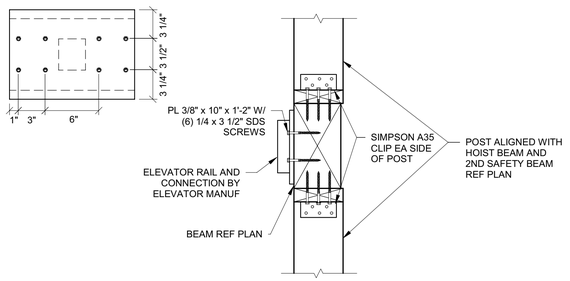
NOTES:
1. PLYWOOD SHEATHING OR GYP BOARD FASTENERS SHALL BE STAGGERED TO EACH STUD IN BUILT-UP MEMBER.
2. NAILS & SCREWS SHALL STAGGERED EACH SIDE OF BUILT-UP MEMBER.
3. BOLTS SHALL HAVE STANDARD PLATE WASHERS BETWEEN WOOD AND BOLT HEAD AND NUT HEAD.
4. NUTS TO BE TIGHTENED TO ENSURE ALL WOOD LAMS ARE IN CONTACT.
5. 1/4" DIA SDS SCREWS OF SAME LENGTH MAY BE SUBSTITUTED FOR NAILS W/ 9" SPACING AND 4" END DIST.



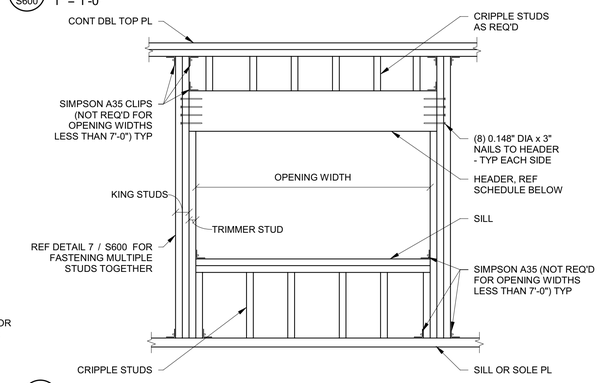
11 S600 BEAM TO COLUMN
1" = 1'-0"



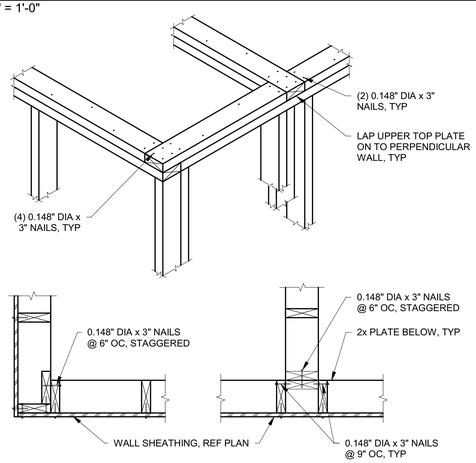
12 S600 ELEVATOR RAIL CONNECTION
1 1/2" = 1'-0"



13 S600 ELEVATOR RAIL CONNECTION
1 1/2" = 1'-0"

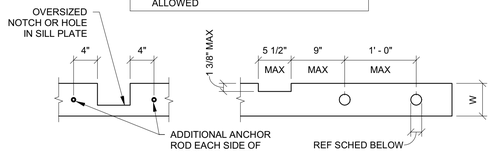


8 S600 WINDOW / DOOR HEADER DETAIL
1" = 1'-0"

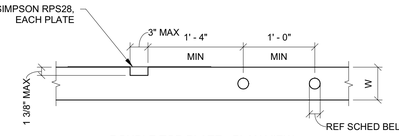


9 S600 WALL FRAMING AT CORNERS AND INTERSECTIONS
1" = 1'-0"

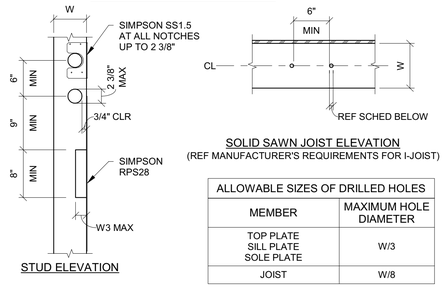
NOTES:
1. "W" INDICATES WIDTH OR DEPTH OF MEMBER
2. ALL HOLES SHALL BE DRILLED, NOT SAWN
3. ALL NOTCHES TO HAVE CORNERS PRE-DRILLED. OVERCUTS WILL NOT BE ALLOWED



SILL OR SOLE PLATE - PLAN VIEW



DOUBLE TOP PLATE - PLAN VIEW

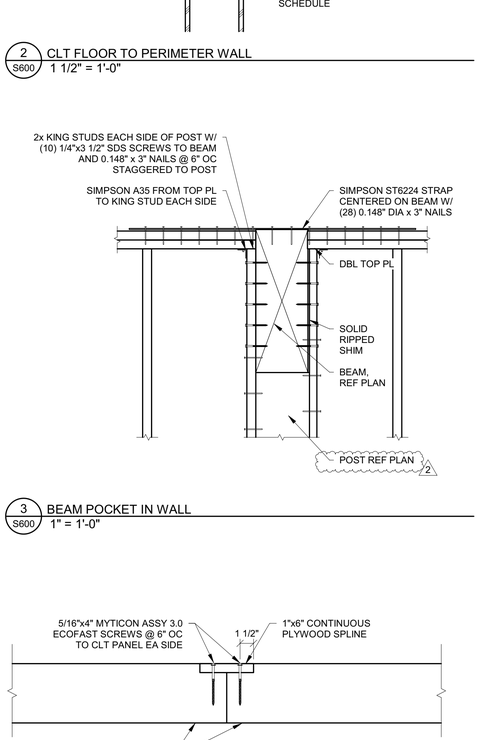


STUD ELEVATION

SOLID SAWN JOIST ELEVATION
(REF MANUFACTURER'S REQUIREMENTS FOR I-JOIST)

ALLOWABLE SIZES OF DRILLED HOLES	
MEMBER	MAXIMUM HOLE DIAMETER
TOP PLATE SILL PLATE SOLE PLATE	W/3
JOIST	W/8

6 S600 ALLOWABLE HOLES AND NOTCHES IN WOOD FRAMING
1" = 1'-0"



2 S600 CLT FLOOR TO PERIMETER WALL
1 1/2" = 1'-0"

3 S600 BEAM POCKET IN WALL
1" = 1'-0"

4 S600 CLT PANEL JOINTS
1 1/2" = 1'-0"

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CENTRAL LOFTS

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 29, 1998 TIMOTHY T. TERICH EXPIRES: 6.30.22

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froelich-engineers.com | FE# 16-T149

City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

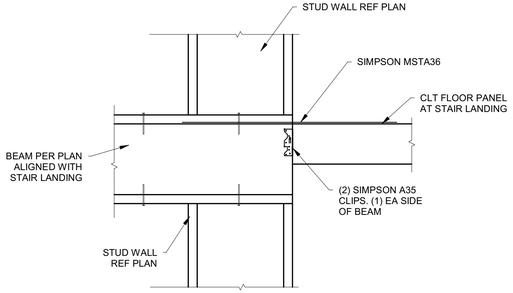
REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ASI #003	01.29.2021

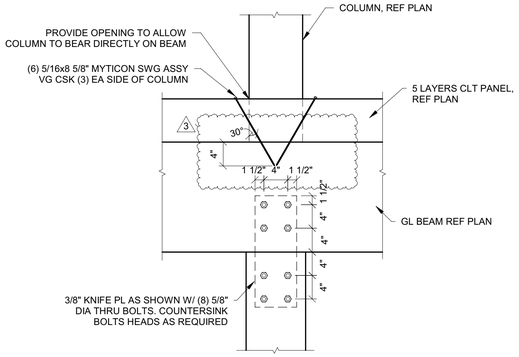
WOOD DETAILS

S600

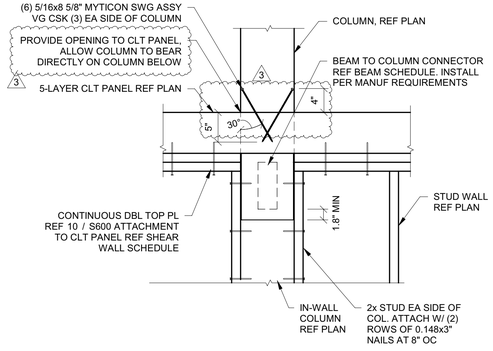
SUBMITTED 2/26/21



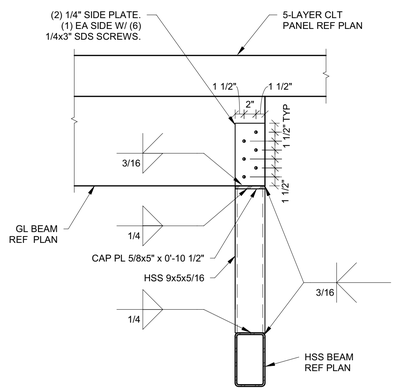
24 S601 BEAM AT MIDDLE STAIR WALL
1" = 1'-0"



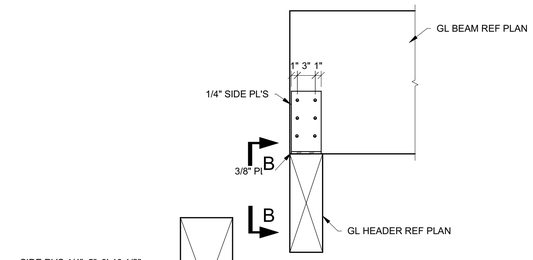
25 S601 CANTILEVERED BEAM TO COLUMN
1" = 1'-0"



26 S601 BEAM TO IN-WALL COLUMN
1" = 1'-0"

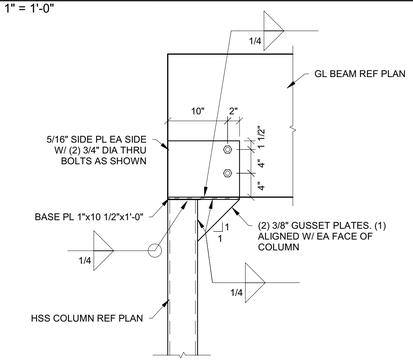


27 S601 FRAMING DETAIL
1" = 1'-0"

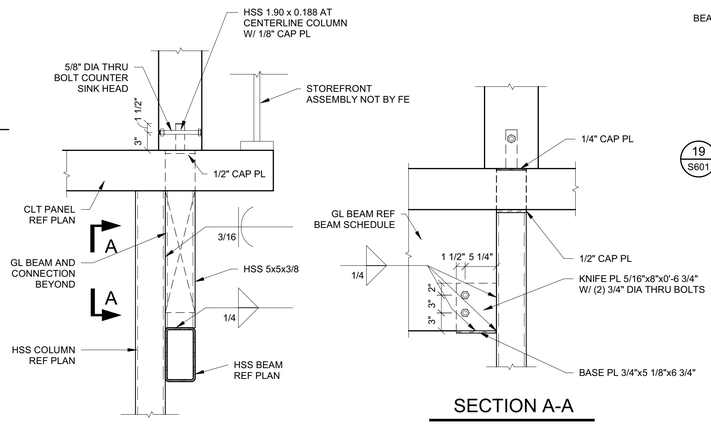


SECTION A-A

21 S601 GL BEAM TO GL HEADER
1" = 1'-0"

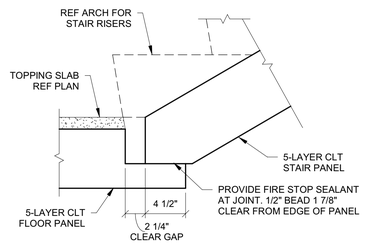


22 S601 GL BEAM TO HSS COLUMN
1" = 1'-0"

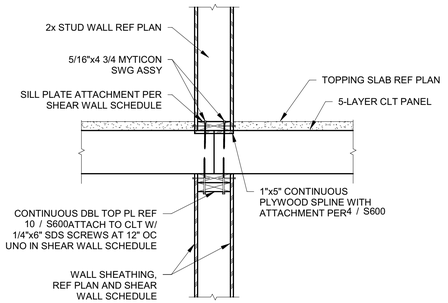


SECTION A-A

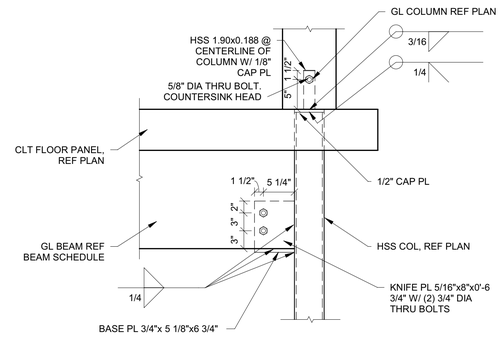
23 S601 2ND FLOOR CANOPY CONNECTION
1" = 1'-0"



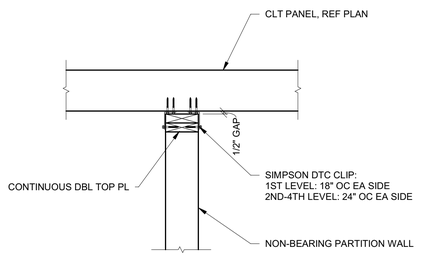
17 S601 STAIR CLT PANEL TO FLOOR PANEL
1 1/2" = 1'-0"



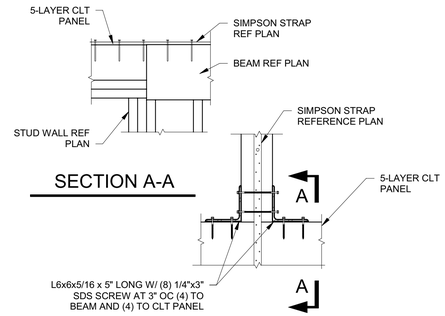
18 S601 CLT WITH SPLICE AT INTERIOR BEARING WALL
1" = 1'-0"



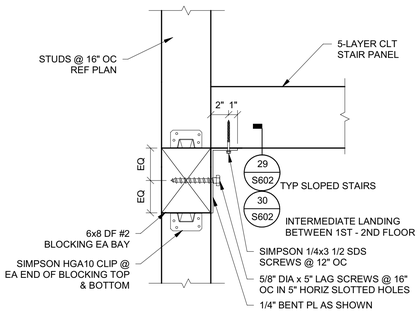
19 S601 HSS COLUMN TO WOOD STRUCTURE
1" = 1'-0"



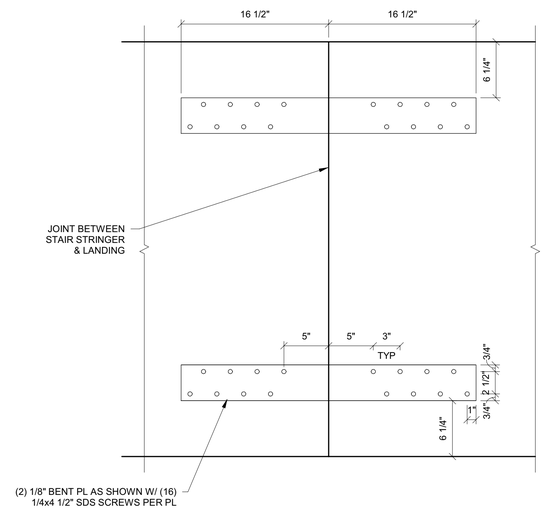
20 S601 NON-BEARING PARTITION WALLS
1" = 1'-0"

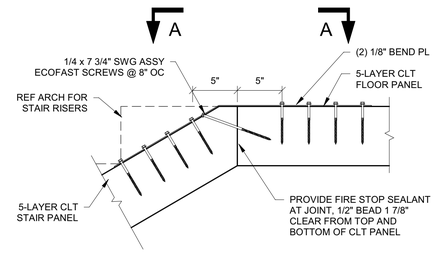


14 S601 STRAPPING AT DRAG BEAM
1" = 1'-0"



15 S601 STAIR CLT PANEL TO STUD WALL
1 1/2" = 1'-0"





16 S601 STAIR CLT PANEL TO FLOOR PANEL
1 1/2" = 1'-0"

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CENTRAL LOFTS

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH
EXPIRES: 6.30.22

FROELICH ENGINEERS
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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO
PERMIT SET

Issue Date: 2018-01-19

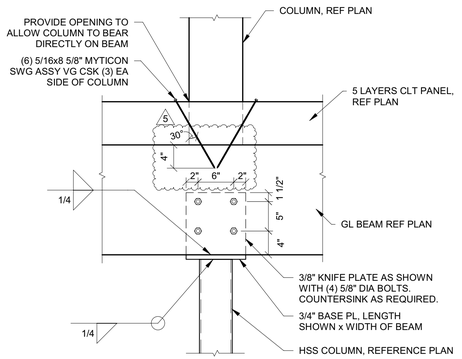
REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ADDENDUM 3	6.29.2018
3	ASI #003	01.29.2021

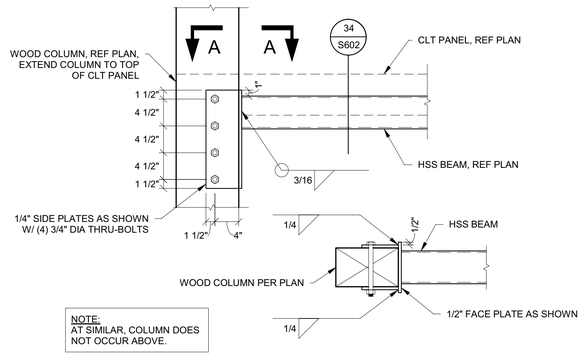
FLOOR FRAMING DETAILS

S601

SUBMITTED 2/26/21

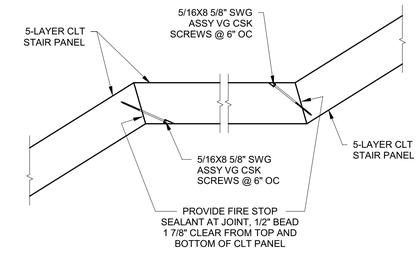


39 S602 CANTILEVERED BEAM TO COLUMN
1" = 1'-0"

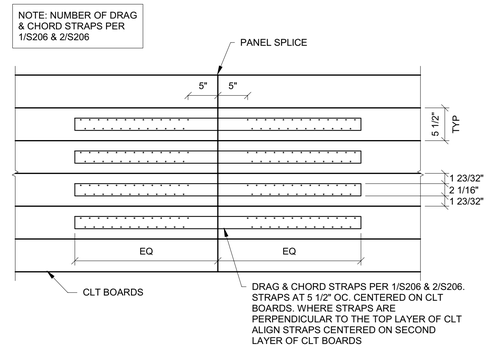


SECTION A-A

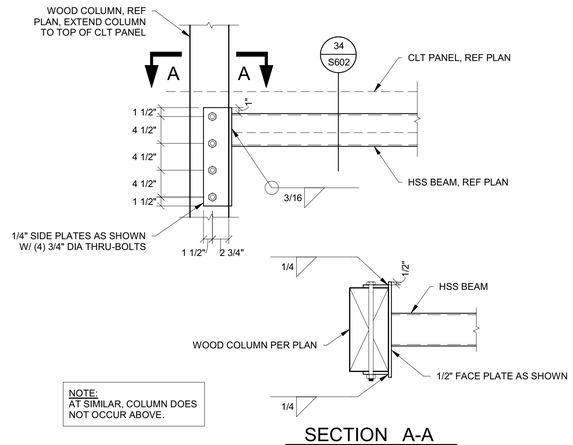
35 S602 HSS BEAM TO WOOD COLUMN
1" = 1'-0"



31 S602 INTERMEDIATE STAIR LANDING
1" = 1'-0"

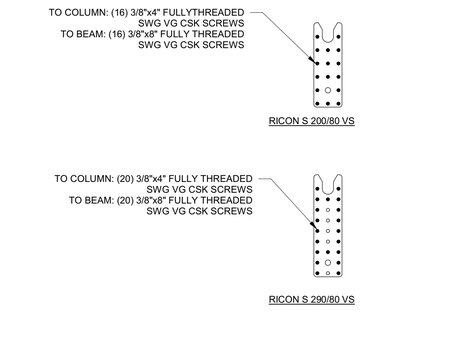


28 S602 CHORD & DRAG STRAPPING
1" = 1'-0"

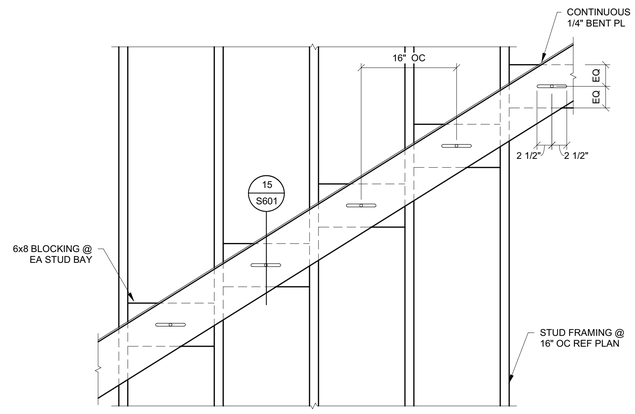


SECTION A-A

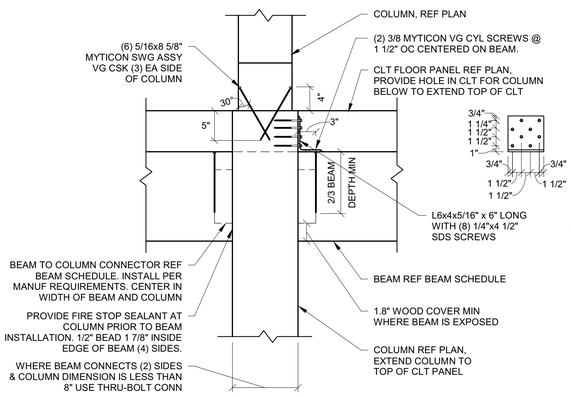
36 S602 HSS BEAM TO WOOD COLUMN
1" = 1'-0"



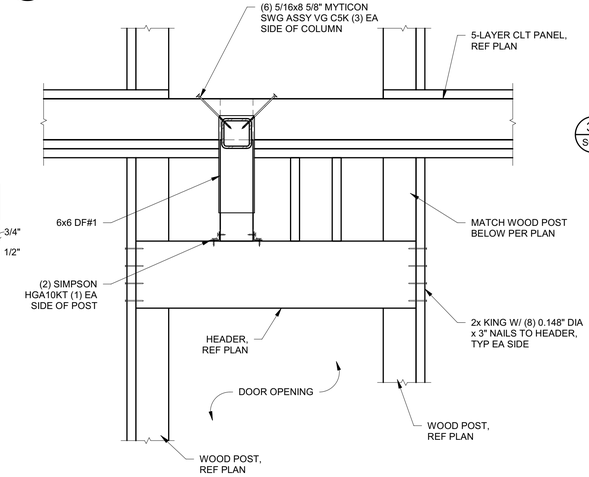
32 S602 RICON CONNECTOR SCREW LAYOUT TO BEAM & COLUMN
1 1/2" = 1'-0"



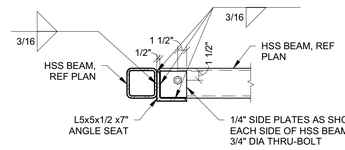
29 S602 ANGLE LEDGER AT CLT STAIR PANEL
1" = 1'-0"



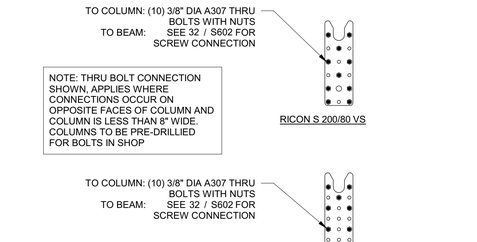
5 41 S602 1" = 1'-0"



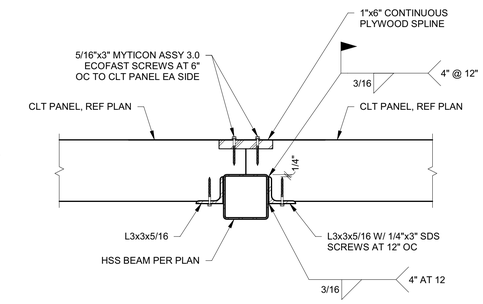
38 S602 HSS BEAM TO WOOD COLUMN
1" = 1'-0"



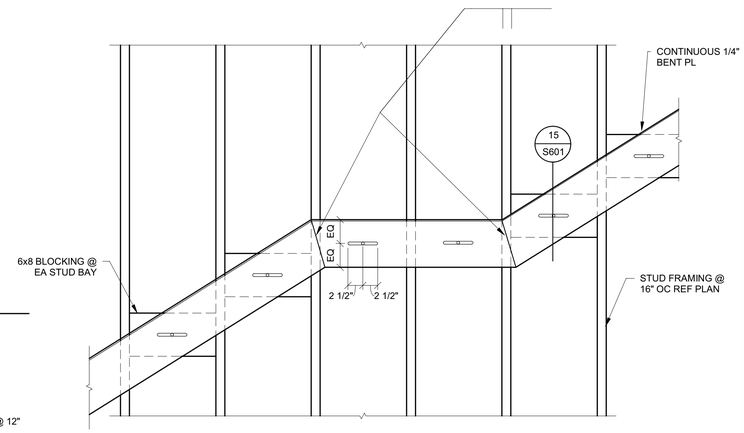
37 S602 HSS BEAM TO HSS BEAM
1" = 1'-0"



33 S602 RICON CONNECTOR THRU BOLT LAYOUT TO COLUMN
1 1/2" = 1'-0"



34 S602 HSS BEAM SUPPORT FOR CLT PANELS
1 1/2" = 1'-0"



30 S602 ANGLE LEDGER AT CLT STAIR PANEL
1" = 1'-0"

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CENTRAL LOFTS

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH
EXPIRES: 6.30.22

FROELICH ENGINEERS
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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO

PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ADDENDUM 3	6.29.2018
3	ADDENDUM 5	10.15.2019
4	PERMIT REVISION	11.16.2020
5	ASI #003	01.29.2021

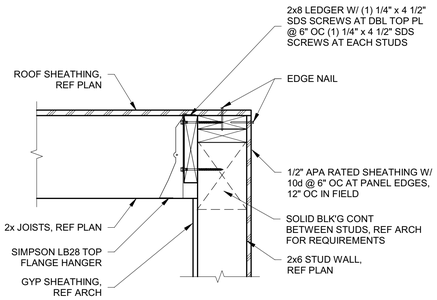
FLOOR FRAMING DETAILS

S602

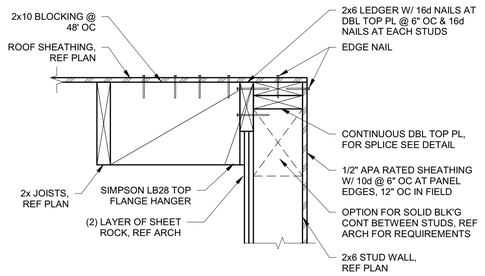
SUBMITTED 2/26/21

8 S700 NOT USED
1" = 1'-0"

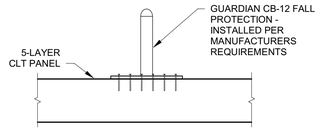
9 S700 NOT USED
1" = 1'-0"



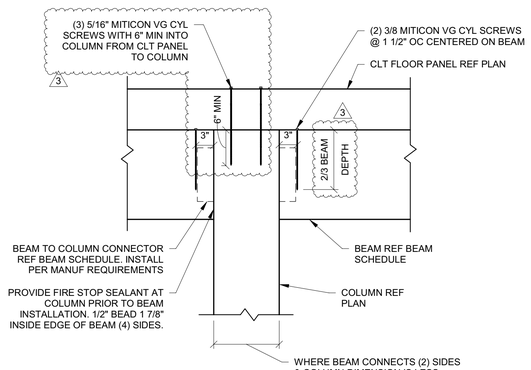
4 S700 UPPER ROOF AT WALL
1 1/2" = 1'-0"



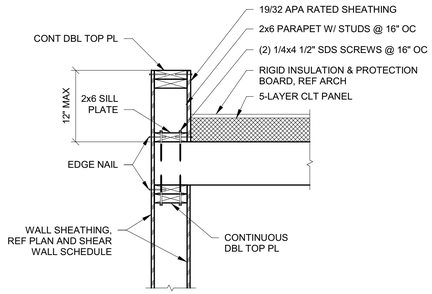
5 S700 UPPER ROOF AT WALL
1 1/2" = 1'-0"



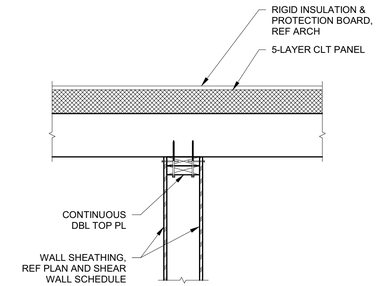
6 S700 ROOF FALL PROTECTION ANCHORAGE
1" = 1'-0"



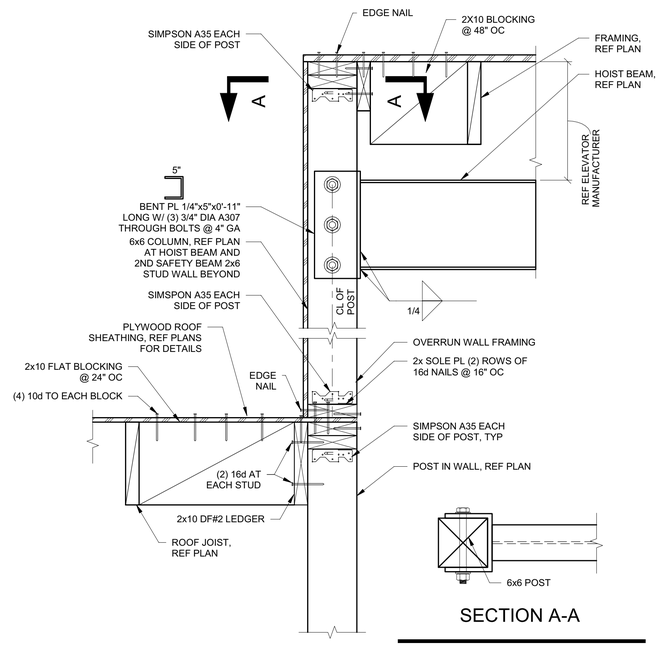
7 S700 BEAM TO COLUMN
1" = 1'-0"



1 S700 CLT ROOF TO PERIMETER WALL
1" = 1'-0"



2 S700 CLT ROOF TO PERIMETER WALL
1" = 1'-0"



3 S700 ELEVATOR OVERRUN - HOISTWAY TO COLUMN
1 1/2" = 1'-0"

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CENTRAL LOFTS

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH EXPIRES: 6.30.22

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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO

PERMIT SET

Issue Date: 2018-01-19

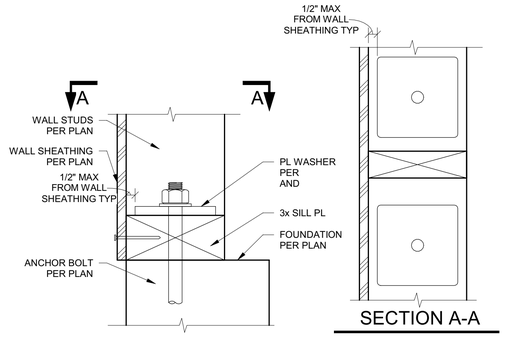
REVISIONS:

1	ADDENDUM 2	3.30.2018
2	PERMIT REVISION	11.16.2020
3	ASI #003	01.29.2021

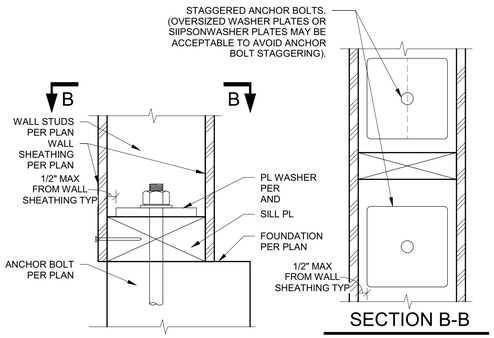
ROOF FRAMING DETAILS

S700

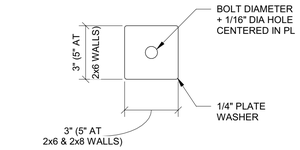
SUBMITTED 2/26/21



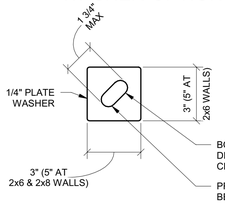
ANCHOR BOLT PLACEMENT
SINCLE SIDED SHEAR WALL



ANCHOR BOLT PLACEMENT
DOUBLE SIDED SHEAR WALL



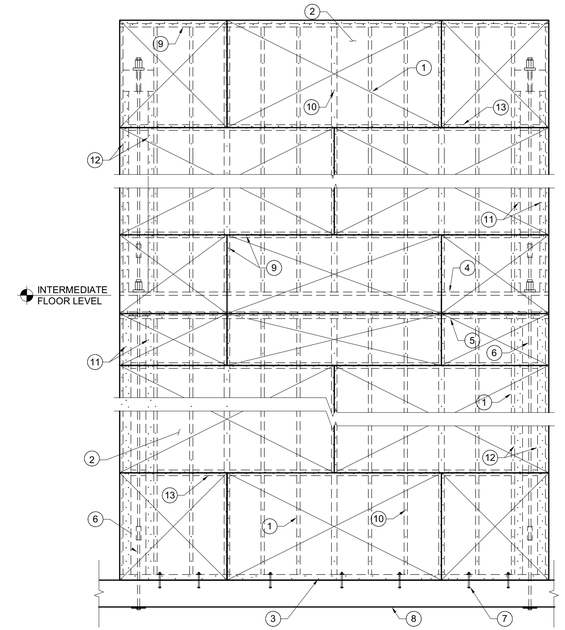
SHEAR WALL PLATE
WASHER-OPTION A



SHEAR WALL PLATE
WASHER-OPTION B

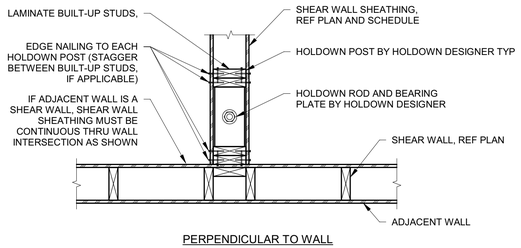
NOTES:
1. CONTRACTOR MAY USE PLATE WASHER OPTION A OR B
2. STANDARD CUT WASHER NOT REQUIRED
3. PLATE WASHER ONLY REQ'D AT SHEAR WALLS. AT NON-SHEAR WALLS PROVIDE STANDARD CUT WASHER

3 S801 SHEAR WALL PLATE WASHERS AND ANCHOR BOLT PLACEMENT
3" = 1'-0"

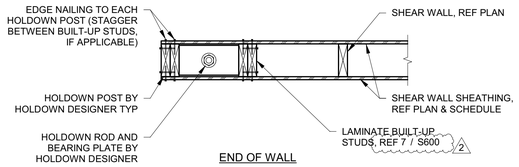


SHEAR WALL ELEVATION NOTES:
1. TYPICAL WALL STUDS.
2. WOOD STRUCTURAL PANEL SHEATHING. LAY HORIZONTALLY OR VERTICALLY. REF SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
3. PRESERVATIVE TREATED SILL PLATE.
4. SOLE PLATE.
5. DOUBLE TOP PLATE. REF 10 / S600 FOR SPLICE DETAIL.
6. CONTINUOUS ROD HOLDOWN ANCHOR
7. ANCHOR BOLTS. THERE SHALL BE A MINIMUM OF TWO BOLTS PER SILL PIECE (A HOLE IN SILL REMOVING MORE THAN 25% OF CROSS-SECTION SHALL BE CONSIDERED TO BE BREAKING PLATE) W/ ONE BOLTS LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM THE END OF EACH PIECE.
8. PT CONCRETE SLAB, REF PLAN.
9. PANEL EDGE NAILING, REF SHEAR WALL SCHEDULE.
10. INTERMEDIATE SUPPORT NAILING @ 12" OC.
11. PROVIDE EDGE NAILING TO EACH HOLDOWN POST. WHERE HOLDOWN POST CONSISTS OF BUILT UP MEMBERS PROVIDE STAGGERED NAILING TO EACH PIECE, REF
12. HOLDOWN POST.
13. ALL SHEATHING EDGES ARE TO BE BLOCKED. REF SHEAR WALL SCHEDULE FOR FRAMING THICKNESS AT ADJOINING PANEL EDGES.

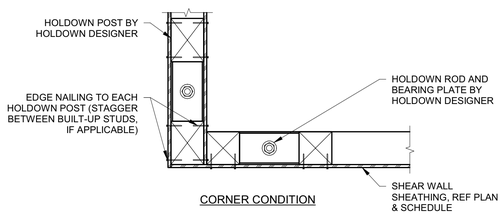
1 S801 TYPPICAL SHEAR WALL ELEVATION
3/8" = 1'-0"



PERPENDICULAR TO WALL

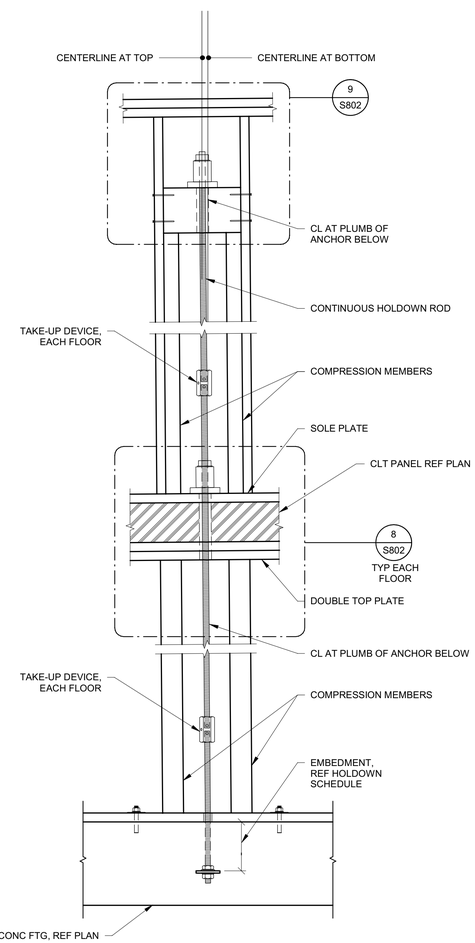


END OF WALL

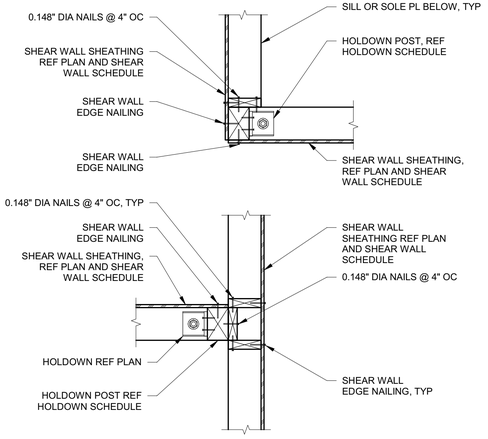


CORNER CONDITION

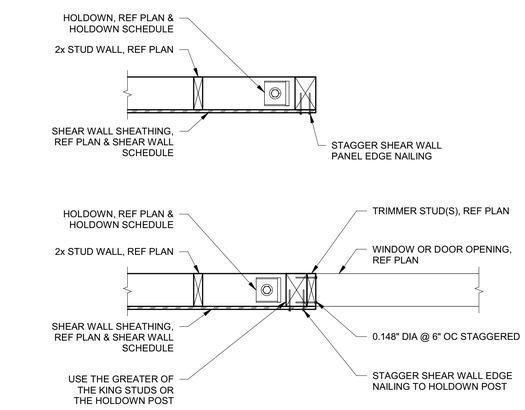
7 S801 CONTINUOUS ROD HOLDOWN PLACEMENT AT END OF WALL OR OPENING
1" = 1'-0"



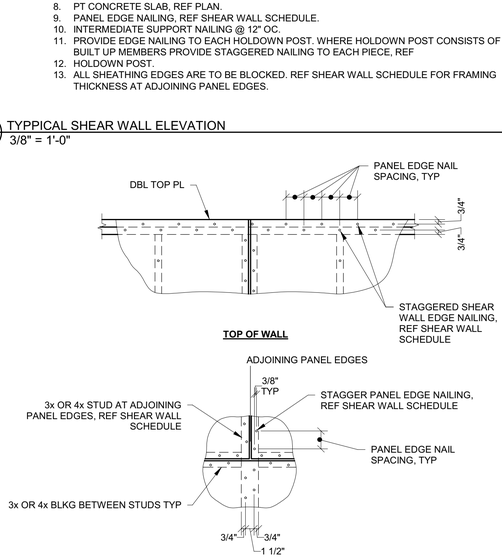
6 S801 CONTINUOUS ROD HOLDOWN ELEVATION
1" = 1'-0"



4 S801 HOLDOWN AT WALL CORNERS AND INTERSECTIONS
1" = 1'-0"

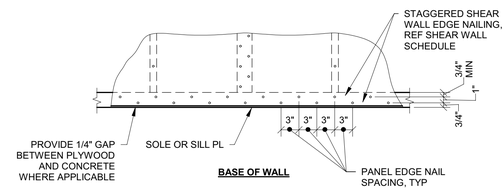


5 S801 HOLDOWN AT END OF WALL OR OPENING
1" = 1'-0"



TOP OF WALL

VERTICAL AND HORIZONTAL PANEL JOINTS OF WALL



BASE OF WALL

2 S801 SHEAR WALL PANEL EDGE NAILING
1" = 1'-0"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 51411PE OREGON SEPT. 22, 1998 TIMOTHY T. TERICH
EXPIRES: 6.30.22

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City of Portland
Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO

PRICING SET

Issue Date: 10.12.2020

REVISIONS:

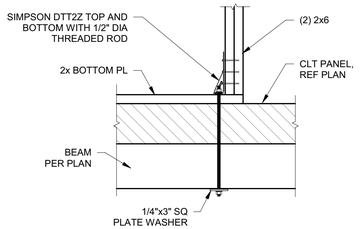
1	ADDENDUM 2	3.30.2018
2	PERMIT REVISION	11.16.2020

STANDARD SHEAR WALL

Sheet Name

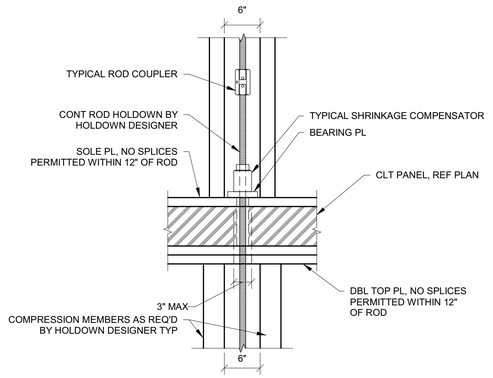
S801

Sheet Number

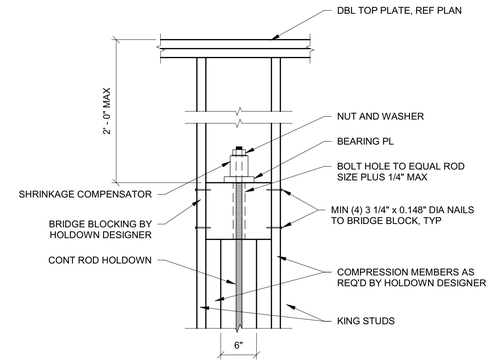


2 / 12 / S802 HOLDOWN AT ROOF
1" = 1'-0"

NOTES:
1. BOLT HOLES IN PL'S EQUAL ROD DIAMETER PLUS 1/4" MAX TYP
2. REF S003 FOR ALL LOADS AND DESIGN SPECIFICATIONS

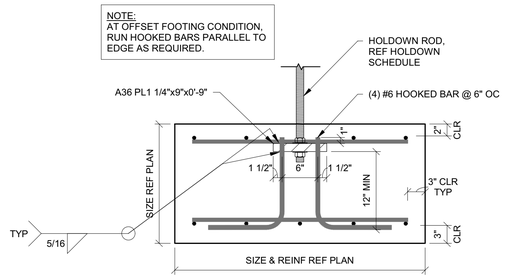


8 / S802 CONTINUOUS ROD HOLDOWN AT INTERMEDIATE FLOORS
1" = 1'-0"

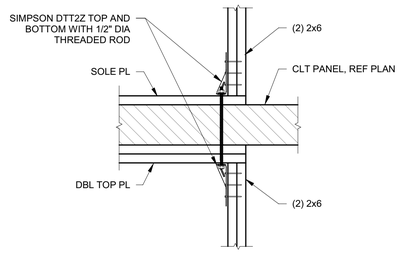


9 / S802 CONTINUOUS ROD HOLDOWN UPPER TERMINATION
1" = 1'-0"

NOTE:
AT OFFSET FOOTING CONDITION, RUN HOOKED BARS PARALLEL TO EDGE AS REQUIRED.



10 / S802 HOLDOWN AT FOOTING
1" = 1'-0"



2 / 11 / S802 HOLDOWN AT ROOF
1" = 1'-0"

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Reviewed for Code Compliance
Date: 06/04/21
Permit #: 18-114385-REV-01-CO

PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	ADDENDUM 2	3.30.2018
2	ASI #003	01.29.2021

STANDARD SHEAR WALL

S802

SUBMITTED 2/26/21

MECHANICAL BASIS OF DESIGN

A. THIS BUILDING CONSISTS OF FOUR-STORIES, OF CROSS LAMINATED TIMBER (CLT) STRUCTURE. THE FIRST LEVEL IS A C&S RETAIL SPACE, LOBBY AND SUPPORT SPACES. THE SECOND THROUGH FOURTH LEVEL CONSISTS OF STUDIO AND 1-BEDROOM APARTMENTS.

B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS AND COORDINATING WITH ARCHITECT.

1. VENTILATION AND EXHAUST:
   A. FLOORS 1: EXTERIOR LOUVERS ARE PROVIDED FOR FUTURE C&S RETAIL AREA BUILD OUT.
   B. FLOORS 2 THROUGH 4: A CONSTANT VOLUME PACKAGED ROOFTOP MAKEUP AIR UNIT PROVIDES VENTILATION TO THE CORRIDORS AND TO THE APARTMENTS. CONSTANT VOLUME KITCHEN EXHAUST FANS AND VARRIABLE VOLUME TOILET EXHAUST FANS ARE PROVIDED IN WALLS IN THE APARTMENTS. CONSTANT AIRFLOW REGULATORS ARE PROVIDED ON VENTILATION DUCTS TO EACH APARTMENT TO INSURE ADEQUATE BALANCING. EACH APARTMENT IS TO BE PROVIDED WITH CONDENSING, VENTLESS, DRYERS. DIRECT VENTING TO THE EXTERIOR IS NOT REQUIRED. 6
2. HEATING/COOLING:
   A. FLOORS 1: CORE AND SHELL RETAIL BUILD-OUT ONLY INCLUDE FREEZE PROTECTION. FULL HEATING AND COOLING EQUIPMENT SHALL BE PROVIDED BY THE TENANT DURING BUILD-OUT. LOBBY IS CONDITIONED BY MINI-SPLIT SYSTEM HEAT PUMP.
   B. FLOORS 2 THROUGH 4: MINI-SPLIT SYSTEM HEAT PUMPS WITH A CONDENSING UNIT YARD ON THE ROOF AND INDOOR WALL MOUNT FAN COIL UNITS IN THE APARTMENTS.
3. CONTROLS: DUE TO THE SIMPLICITY OF THE PROJECT NO BUILDING AUTOMATION SYSTEM (BAS) HAS BEEN SPECIFIED. EACH SYSTEM WILL OPERATE ON ITS OWN CONTROLS.

C. CODES AND STANDARDS
1. AMERICANS WITH DISABILITIES ACT (ADA)
2. NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, 2012 EDITION.
3. NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS, 2012 EDITION.
4. NFPA 99: HEALTH CARE FACILITIES CODE, 2012 EDITION.
5. NFPA 101: LIFE SAFETY CODE, 2012 EDITION.
6. OREGON BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
   A. 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC) BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC).
   B. 2014 OREGON MECHANICAL SPECIALTY CODE (OMSC) BASED ON THE 2012 INTERNATIONAL MECHANICAL CODE (IMC) AND THE 2012 INTERNATIONAL FUEL GAS CODE (IFGC) WITH STATE AMENDMENTS.
   C. 2014 OREGON PLUMBING SPECIALTY CODE (OPSC) BASED ON THE 2009 UNIFORM PLUMBING CODE (UPC).
   D. 2014 NATIONAL ELECTRICAL CODE (NEC) WITH STATE AMENDMENTS.
   E. 2014 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC) BASED ON THE 2014 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
   F. ADDITIONAL STATE AND LOCAL JURISDICTION REQUIREMENTS.

D. OUTDOOR DESIGN CONDITIONS:
1. LOCATION: PORTLAND, OR
2. SUMMER: 91.4°F DB/67.3°F WB (ASHRAE 0.4%)
3. WINTER: 25.2°F (ASHRAE 0.2% OR MEDIAN OF EXTREMES)
4. ELEVATION: 108 FT.
5. CLIMATE ZONE: 4C (2014 OEESC, CHAPTER 3)

E. INDOOR DESIGN CONDITIONS
1. ALL CONDITIONED AREAS:
   A. COOLING: 75°F+/-2°F
   B. HEATING: 70°F +/-2°F
2. EXCEPTIONS:
   A. ELEC. ROOMS: 90°F +/-2°F MAXIMUM
   B. DATA/TELECOM ROOMS: COOLING ONLY, 76°F +/- 2°F (MAXIMUM)
   C. ELEVATOR CONTROL ROOMS: COOLING ONLY, 76°F +/- 2°F (MAXIMUM)
3. HUMIDITY CONTROL
   A. ALL AREAS, UNLESS OTHERWISE NOTED: NONE

F. OREGON VENTILATION CRITERIA:
1. COMPLY WITH CHAPTER 4 OF OMSC/IMC AND ASHRAE 62.1. IF PURSUING LEED FOR HOMES, COMPLY WITH ASHRAE 62.2.

G. EXHAUST TO OUTDOORS (MINIMUM RATES) 6
1. APARTMENT TOILET ROOMS: 30/80 CFM (CONTINUOUS LOW AND INTERMITTENT CONTROL TO HIGH)
2. ~~KITCHENS: 35 CFM (CONTINUOUS)~~
4. JANITOR CLOSET: 100 CFM OR 10 AIR CHANGES PER HOUR, WHICHEVER IS GREATER.
5. BIKE STORAGE: 0.25 CFM/ SQ. FT.
6. MAIN TRASH ROOMS: 12-15 AIR CHANGES PER HOUR

H. BUILDING ENVELOPE
1. GLAZING: GLASS/FRAME COMBINATION
   A. LEVEL 1:
      1) DESCRIPTION: METAL FRAMED CURTAIN WALL
      2) U = 0.37 (WITH FRAME)
      3) SOLAR HEAT GAIN FACTOR (SHADING COEFFICIENT) = 0.35
   B. LEVELS 2 THOUGH 4:
      1) DESCRIPTION: METAL FRAMED CURTAIN WALL
      2) U = 0.33 (WITH FRAME)
      3) SOLAR HEAT GAIN FACTOR (SHADING COEFFICIENT) = 0.23
2. WALL CONSTRUCTION:
   A. WOOD FRAMING AT 16" OC
   B. INSULATION: 5.5" FIBERGLASS BATT
   C. OVERALL U-VALUE = 0.062
3. ROOF CONSTRUCTION:
   A. (5) LAYERS CLT (R-1.2/INCH)
   B. INSULATION: 4" CLOSED CELL RIGID
   C. OVERALL U-VALUE = 0.038

I. DUCTWORK DESIGN CRITERIA (MAXIMUM ALLOWABLE AIR PRESSURE DROPS AND AIR VELOCITIES) TO MEET HIGH EFFICIENCY OPERATION WITH MINIMAL ACOUSTICAL NOISE. DUCT STATIC PRESSURE FRICTION LOSS SHALL NOT EXCEED 0.2" PER 100 FEET IN MECHANICAL ROOMS AND SHAFTS. LOW PRESSURE SUPPLY DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.08" PER 100 FEET. LOW PRESSURE RETURN AND EXHAUST DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.06" PER 100 FEET. MEDIUM PRESSURE DUCTWORK SHALL NOT EXCEED A DUCT STATIC PRESSURE FRICTION LOSS BASED ON A MAXIMUM OF 0.1" PER 100 FEET.
1. MAXIMUM SUPPLY, RETURN AND EXHAUST DUCT AIR FLOW VELOCITIES SHALL NOT EXCEED THE FOLLOWING CRITERIA:
   A. MAINS ABOVE CEILING: MAXIMUM 1750 FPM VELOCITY
   B. MAINS ABOVE OPEN OCCUPIED SPACES: MAXIMUM 1450 FPM VELOCITY
   C. BRANCHES ABOVE CEILING: MAXIMUM 1400 FPM VELOCITY
   D. BRANCHES ABOVE OPEN OCCUPIED SPACES: MAXIMUM 1150 FPM VELOCITY
   E. RUN-OUTS TO DIFFUSERS: MAXIMUM 725 FPM VELOCITY
   F. IN SHAFTS: MAXIMUM 2500 FPM VELOCITY
   G. IN MECHANICAL ROOMS: MAXIMUM 3000 FPM VELOCITY
2. KITCHEN EXHAUST DUCT SHALL RANGE FROM 500 FPM IN VAV SYSTEMS (MINIMUM) TO MAXIMUM 2500 FPM VELOCITY.

J. DIVERSITY ASSUMPTIONS
1. FANS: PROVIDE FOR DUCT LEAKAGE AND 10% ADDITIONAL AIR CAPACITY FOR FUTURE EXPANSION

K. ACOUSTICAL
1. THE FOLLOWING NOISE NC/RC CRITERIA LEVELS WILL BE ACHIEVED AND AS DEFINED IN THE ASHRAE HVAC APPLICATIONS HANDBOOK. THESE LEVELS ADDRESS THE MECHANICAL SYSTEMS ONLY. ACTUAL SOUND PERFORMANCE REQUIREMENTS FOR EACH SPACE MUST BE VERIFIED WITH ACOUSTICAL CONSULTANT.
   A. CORRIDORS AND LOBBIES: 30 TO 40
   B. LIVING AREAS: 25 TO 30

L. TENANT ALLOWANCES
1. VENTILATION AIR: EXTERIOR LOUVERS SIZED FOR 5000 CFM
2. RELIEF AIR: EXTERIOR LOUVERS
3. KITCHEN MAKEUP AIR: 1000 CFM (LOUVERS) - SYSTEM AND DUCTWORK BY TENANT 6
4. GREASE EXHAUST: 5000 CFM (SHAFT/RISER) - SYSTEM AND DUCTWORK BY TENANT
5. VAPOR EXHAUST: 1500 CFM (SHAFT RISER) - SYSTEM AND DUCTWORK BY TENANT

M. SEISMIC:
1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

N. THE HVAC SYSTEM INCLUDES THE FOLLOWING SUSTAINABLE DESIGN FEATURES:
1. SELECT REFRIGERANTS AND HVAC EQUIPMENT THAT MINIMIZE AND ELIMINATE THE EMISSION OF COMPOUNDS THAT CONTRIBUTE TO OZONE DEPLETION.
2. PROVIDE INDOOR AIR QUANTITIES TO MEET MINIMUM REQUIREMENTS OF SECTIONS 4 THROUGH 7 OF ASHRAE STANDARD 62.1-2010.
3. USE VARIABLE FREQUENCY DRIVES OR EC MOTORS TO OPERATE FANS.
4. HIGH EFFICIENT SPLIT SYSTEMS
5. ALL DUCTWORK IS SEALED PER SMACNA SEAL CLASS A WITH MAXIMUM 5% LEAKAGE RATE AT 1.5X THE OPERATING PRESSURE OF THE SUPPLY FANS.

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EXPIRES: 12/31/21
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90520PE
DocuSigned by:
DECEMBER 31, 2015
JOSHUA M. CHECKIS

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PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

6	ASI 03	2021-02-02

BASIS OF DESIGN AND TABULATED DATA

Sheet Name

M001

Sheet

SUBMITTED 2/26/21

APARTMENT VENTILATION MAKE-UP AIR UNIT - GAS HEATING, DX COOLING

TAG	#	MANUFACTURER	MODEL NUMBER	NOMINAL CAPACITY (TONS)	SUPPLY AIRFLOW (CFM)	SUPPLY ESP (IN WG)	SUPPLY DRIVE	SUPPLY HP	VFD (Y/N)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	EMERG POWER (Y/N)	COOLING (AT 95°F AMBIENT) TOTAL (MBH)	COOLING SENS (MBH)	COOLING EAT DB/WB (°F)	COOLING LAT DB/WB (°F)	COOLING EER	COOLING REFRIG TYPE	COOLING REFRIG (LBS)	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING EAT DB (°F)	HEATING LAT DB (°F)	FILTER TYPE	FILTER MERV	UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
MAU	R-1	CARRIER	48HCTD08J2A5-0A0G0	7.5	2850	1.0	DIRECT	2.4	Yes	208	3	42	50	No	98	98	90/67	61/57	12	R410A	9.7	224	184	25	92	CART	8	89"x59"x47"	1052	1-14

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED - SINGLE POINT OF POWER.
2. PROVIDE INVERTER READY NEMA PREMIUM EFFICIENCY MOTOR WITH SHAFT GROUNDING SYSTEM.
3. PROVIDE VFD WITH UNIT FOR SOFTSTART.
4. PROVIDE FACTORY STANDARD 14" HIGH ROOF CURB.
5. UNIT TO HAVE HORIZONTAL DISCHARGE FOR SUPPLY
6. PROVIDE NATURAL GAS HEATING AT 11" WG MIN.
7. SMOKE DETECTOR REQUIRED IN SUPPLY AIR FOR AUTOMATIC UNIT SHUTDOWN ABOVE 2000 CFM. PROVIDED BY DIV 26, COORINDATE WITH CONTRACTOR.
8. FACTORY PROVIDE CONVIENECE OUTLET MOUNTED ON SIDE OF UNIT.
9. PROVIDE FURNACE WITH MODULATING CONTROL.
10. PROVIDE FACTORY CONTROLS - CONTROLLED ZONE TEMPERATURE.
11. PROVIDE CONDENSER COIL GUARD.
12. PROVIDE LOW AMBIENT CONTROL FOR OPERATION DOWN TO 20°F.
13. PROVIDE WITH (2) SINGLE SPEED SCROLL COMPRESSORS
14. PROVIDE V4YHD DOVE GRAY COLOR

SPLIT SYSTEM HEAT PUMP FAN COIL SCHEDULE

TAG	#	COND UNIT TAG	MANUFACTURER	MODEL NUMBER	LOCATION	COOLING CAPACITY TOTAL (MBH)	COOLING CAPACITY SENSIBLE (MBH)	TOTAL HEATING (MBH)	SUPPLY AIR FLOW (CFM)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA (A)	EMERG POWER (Y/N)	UNIT SIZE (W"xHxD")	OPER. WT. (LBS)	NOTES
FC	1-1	CU 1-1	DAIKIN	FBQ36PVJU	1ST FLOOR LOBBY	36	27	40	950	208	1	3	No	55x12x28	110	1-5
FCU	201	CU 201	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	202	CU 202	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	203	CU 203	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	204	CU 204	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	205	CU 205	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	206	CU 206	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	207	CU 207	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	208	CU 208	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	209	CU 209	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	210	CU 210	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	301	CU 301	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	302	CU 302	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	303	CU 303	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	304	CU 304	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	305	CU 305	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	306	CU 306	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	307	CU 307	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	308	CU 308	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	309	CU 309	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	310	CU 310	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	401	CU 401	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	402	CU 402	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	403	CU 403	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	404	CU 404	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	405	CU 405	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	406	CU 406	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	407	CU 407	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	408	CU 408	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	409	CU 409	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4
FCU	410	CU 410	Daikin	FAQ18PVJU	IN UNIT	18	13.7	20	500	208	1	1	No	41x12x9	35	1-4

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PROVIDE LOW VOLTAGE WIRED PROGRAMMABLE THERMOSTAT WITH TEMPERATURE SETPOINTS FOR AT LEAST FOUR SCHEDULING PERIODS WITHIN 24 HOURS.'
3. SYSTEM SHALL BE CABPLE OF REFRIGERANT PIPE RUNS UP TO 164 FT.
4. PROVIDE WITH INTERNAL MOISTURE SENSOR INTERLOCKED WITH UNIT SHUTDOWN FOR SECONDARY CONDENSATE PROTECTION.
5. PROVIDE WITH INTERNAL CONDENSATE PUMP

SPLIT SYSTEM HEAT PUMP CONDENSING UNIT SCHEDULE

TAG	#	FAN COIL TAG	MANUFACTURER	MODEL NUMBER	LOCATION	COOLING (95°F ODB/80°F IDB/67°F EWB) NOM. CAP. (MBH)	COOLING (95°F ODB/80°F IDB/67°F EWB) ERR	COOLING (95°F ODB/80°F IDB/67°F EWB) SEER	HEATING (47°F ODB/70°F IDB) NOM. CAP. (MBH)	HEATING (47°F ODB/70°F IDB) COP	HEATING (47°F ODB/70°F IDB) HSPF	REFRIG TYPE	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA (A)	ELECTRICAL MOCP (A)	EMERG POWER (Y/N)	UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
CU	1-1	FCU 1-1	Daikin	RZQ36PVJU9	ROOF	36	11.1	17.5	40	0	9.1	R410A	208	1	27	30	No	36x13x52	290	1-2
CU	201	FCU-202	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	202	FCU-204	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	203	FCU-404	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	204	FCU-410	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	205	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	206	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	207	FCU-410	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	208	FCU-410	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	209	FCU-410	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	210	FCU-409	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	301	FCU-302	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	302	FCU-304	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	303	FCU-304	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	304	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	305	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	306	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	307	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	308	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	309	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	310	FCU-407	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	401	FCU-402	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	402	FCU-404	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	403	FCU-204	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	404	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	405	FCU-410	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	406	FCU-410	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	407	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	408	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	409	FCU-408	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3
CU	410	FCU-407	Daikin	RZR18PVJU	ROOF	18	12.7	18.6	20	0	8.7	R410A	208	1	17	20	No	36x13x30	150	1-3

NOTES:
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECTS AS REQUIRED.
2. REFRIGERANT PIPE SIZES PER MANUFACTURER'S REQUIREMENTS.
3. ALL REFRIGERANT PIPING & ELECTRICAL CONNECTIONS MUST BE FROM BOTTOM OF UNIT TO ALLOW UNITS TO BE MOUNTED DIRECTLY NEXT TO EACH OTHER.

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SCHEDULES

Sheet Name

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FAN SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	SYSTEMS SERVED	DISCH	TYPE	DRIVE	AIR FLOW (CFM)	SP (IN WG)	FAN RPM	MTR RPM	ELECTRICAL						UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
													BHP	HP	VOLTS	PH	VFD (Y/N)	EMERG POWER (Y/N)			
EF	1-1	GREENHECK	SQ-100-VG	TRASH ROOM	TRASH/LAUNDRY/JANITOR/ELECTRICAL	INLINE	CENTRIFUGAL	ECM	800	0.3	1401	1725	0.13	1/4	120	1	No	No	24x17x17	60	1-6
EF	1-2	GREENHECK	SQ-85-VG	JANITOR ROOM	FIRE PUMP	INLINE	CENTRIFUGAL	ECM	300	0.5	1622	1725	0.06	0.1	120	1	No	No	19x15x15	60	1-6

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PROVIDE ECM (ELECTRONICALLY COMMUTATED MOTOR) WITH FACTORY MOUNTED POTENTIOMETER FOR SPEED ADJUSTMENT.
3. PROVIDE NEMA PREMIUM EFFICIENCY MOTOR.
4. PROVIDE NON-OVERLOADING MOTOR.
5. PROVIDE INVERTER READY MOTOR WITH SHAFT GROUNDING SYSTEM.
6. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT PER SPECIFICATIONS.
7. MOUNT PER MANUFACTURER INSTRUCTIONS.

FAN SCHEDULE - RESIDENT UNITS

1	#	MANUFACTURER	MODEL	LOCATION	AREA SERVED	TYPE	AIR FLOW (CFM)	SP (IN WG)	CFM/WATT	FAN RPM	ELECTRICAL					UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
											MCA (AMPS)	VOLTS	PH	VFD (Y/N)	EMERG POWER (Y/N)			
KEF	1	PANASONIC	FV-0511VKS2	KITCHEN	KITCHEN	SIDEWALL	35	0.1	3.8	706	0.13	120	1	No	No	3.4x13x13	35	1-2,4,5
TEF	1	PANASONIC	FV-0511VKS2	TOILET	TOILET	SIDEWALL	30/80	0.1	3.8	778	0.18	120	1	No	No	3.4x13x13	35	1-3,5

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PROVIDE WITH INTEGRAL BACK DRAFT DAMPER.
3. FAN CONTROLLED BY UNIT MOUNTED MOTION SENSOR, PROVIDED BY MANUFACTURER.
4. SET FAN TO RUN 24/7/365 PER OMSC, PROVIDING HARDWARE AS NECESSARY FOR FAN TO OPERATE CONTINUOUS SUCH AS A SPEED SELECTOR. SET MIN. AIRFLOW AT 35 CFM.
5. FAN SHALL FIT IN 2x4 STUD CAVITY.

CADET HEATER SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	ELECTRICAL				EMERG POWER (Y/N)	UNIT SIZE (W"xH"xD")	OPER. WT. (LBS)	NOTES
						HEAT CAP (KW)	VOLTS	PH	MCA (A)				
EH	204	CADET	APEX72	BEDROOM	HIGH MOUNT	1	208	1	5	No	12x8x1	10	1-4
EH	207	CADET	APEX72	BEDROOM	HIGH MOUNT	1	208	1	5	No	12x8x1	10	1-4
EH	304	CADET	APEX72	BEDROOM	HIGH MOUNT	1	208	1	5	No	12x8x1	10	1-4
EH	307	CADET	APEX72	BEDROOM	HIGH MOUNT	1	208	1	5	No	12x8x1	10	1-4
EH	404	CADET	APEX72	BEDROOM	HIGH MOUNT	1	208	1	5	No	12x8x1	10	1-4
EH	407	CADET	APEX72	BEDROOM	HIGH MOUNT	1	208	1	5	No	12x8x1	10	1-4

NOTES
1. DISCONNECT PROVIDED BY ELECTRICAL.
2. MOUNT PER MANUFACTURER'S REQUIREMENTS AND MAINTAIN REQUIRED CLEARANCES. UNIT SHALL BE MOUNTED HIGH ON WALL.
3. PROVIDE WITH WALL CAN & DECTORITIVE COVER. ARCHITECT TO CHOOSE BETWEN BLACK OR WHITE.
4. PROVIDE LINE VOLTAGE SIMPLE THERMOSTAT AND MOUNT IN ROOM. HONEYWELL LINEVOLT PRO DIGITAL OR EQUAL.

ELECTRIC UNIT HEATER SCHEDULE

TAG	#	MANUFACTURER	MODEL	LOCATION	TYPE	AIR FLOW (CFM)	ELECTRICAL				EMERG POWER (Y/N)	UNIT SIZE (L"xW"xH")	OPER. WT. (LBS)	NOTES
							HEAT CAP (KW)	VOLTS	PH	MCA (A)				
EH	1-1	INDEECO	ULIR	FIRE PUMP ROOM	UNIT	300	1.5	208	1	8	No	16x14x7.5	27	1,2,3
EH	1-2	INDEECO	ULIR	WATER ENTRY	UNIT	300	1.5	208	1	8	No	16x24x7.5	27	1,2,3
EH	1-3	QMARK	CWH ARCH	STAIR	WALL MOUNT	300	1.5	208	1	8	No	5"x11x12	25	1,2,3
EH	1-4	INDEECO	ULIR	LEVEL 1 C&S	UNIT	300	3	208	1	15	No	16x24x7.5	27	1,2,3,4
EH	1-5	INDEECO	ULIR	LEVEL 1 C&S	UNIT	300	3	208	1	15	No	16x24x7.5	27	1,2,3,4
EH	1-6	INDEECO	ULIR	LEVEL 1 C&S	UNIT	300	3	208	1	15	No	16x24x7.5	27	1,2,3,4
EH	1-7	INDEECO	ULIR	TRASH ROOM	UNIT	300	1.5	208	1	8	No	16x14x7.5	27	1,2,3
EH	1-8	INDEECO	ULIR	ELECTRICAL ROOM	UNIT	300	1.5	208	1	8	No	16x14x7.5	27	1,2,3
EH	1-9	QMARK	CWH ARCH	CORRIDOR	WALL MOUNT	300	1.5	208	1	8	No	5"x11x12	25	1,2,3

NOTES
1. DISCONNECT PROVIDED BY ELECTRICAL.
2. MOUNT PER MANUFACTURER'S REQUIREMENTS AND MAINTAIN REQUIRED CLEARANCES.
3. PROVIDE INTEGRAL THERMOSTAT.
4. TEMPORARY UNIT FOR FREEZE PROTECTION FOR CORE AND SHELL CONSTRUCTION. TO BE REMOVED FOR FUTURE TENANT.

DIFFUSER AND GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FACE TYPE	FACE SIZE (INCHES)	COLOR (NOTE #1)	MATERIAL	OBD	NOTES
SA	TITUS	272RS	AEROBLADE SUPPLY GRILLE	3/4" SPACING, DOUBLE DEFL.	SEE PLANS	WHITE	STEEL	NO	2,3,4,5,6
SB	TITUS	S300FL	SPIRAL DUCT GRILLE	3/4" SPACING, DOUBLE DEFL.	SEE PLANS	WHITE	STEEL	NO	2,3,4,5,8
SC	TITUS	TMS	SQUARE CEILING SUPPLY	3-CONE	24 x 24	WHITE	STEEL	NO	2,3,4,5,6,7
SD	TITUS	TMS	SQUARE CEILING SUPPLY	3-CONE	12 x 12	WHITE	STEEL	NO	2,3,4,5,6,7
RA	TITUS	23RL	AEROBLADE RETURN GRILLE	3/4" SPACING, 45° DEFL.	SEE PLANS	WHITE	STEEL	NO	2,3,4,5,6,7
RB	TITUS	PAR	SQUARE CEILING RETURN	PERFORATED	24 x 24	WHITE	STEEL	NO	2,3,4,5,6,7
RC	TITUS	PFRF	PERFORATED PANEL	PERFORATED	24 x 24	WHITE	STEEL	NO	2,3,4,5,6,7

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NOTES:
1. MAXIMUM TOTAL PRESSURE DROP SHALL NOT EXCEED 0.15" WG WITH DUCT TRANSITION.
2. MAXIMUM NC LEVEL SHALL BE 30.
3. ALL VISIBLE SURFACES AND DUCTWORK BEHIND FACE SHALL BE PAINTED FLAT BLACK.
4. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR BORDER TYPES.
5. NECK SIZE AND CFM SHOWN ARE ON PLANS (EXAMPLE: SB12x12-400 REFERS TO SUPPLY AIR "S" WITH TAG "B" WITH 12x12 NECK AND 400 CFM).
6. PROVIDE RECTANGULAR/SQUARE TO ROUND TRANSITION AS REQUIRED AND SIZED FOR MAXIMUM 0.01" WG TOTAL PRESSURE DROP.
7. ADJUSTABLE HORIZONTAL DISCHARGE
8. ANY GRILLE/DIFFUSER MOUNTED DIRECTLY ON EXPOSED DUCT SHALL MATCH COLOR OF DUCT (IF PAINTED) OR SHALL HAVE CLEAR ANODIZED FINISH (IF DUCT IS UNPAINTED).

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OUTDOOR AIR CALCULATION (SINGLE ZONE OR 100% OSA SYSTEM) - LEVEL 1 FUTURE TENANT

SYSTEM: AHU-# — BASED ON ASHRAE 62.1-2007 - TABLE 6-1

ROOM #	ZONE	DESCRIPTION	APPLICATION	AREA (SF)	TABLE 6-1 OUTDOOR AIR (CFM/SF)	TABLE 6-1 OCCUPANCY (P/1OOO SF)	CALCULATED OCCUPANTS	OVERRIDE # OCCUPANTS/ # FIXTURES	NUMBER OF OCCUPANTS / FIXTURES	OUTDOOR AIR REQ. (CFM/PERSON)	EXHAUST RATE REQ. (CFM/SF)	BREATHING ZONE OUTDOOR AIR FLOW (CFM) Vbz	TABLE 6-2 ZONE AIR DIST. EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	EXHAUST REQUIRED (CFM)	OSA/EXH AIRFLOW PROVIDED (CFM)
100A		FUTURE RESTAURANT	RESTAURANT DINING ROOMS	2666	0.18	70	186.6	178	178.0	7.5	-	1815	0.8	2269	-	2270
100B		FUTURE RETAIL	SALES (EXCEPT SPACES BELOW)	845	0.12	15	12.7	30	30.0	7.5	-	326	0.8	408	-	410
				3,511				Total all zones Pz:	**208.0**							**2,680**

LEED EQc2 - 30% Increased Ventilation ?: **NO**

OUTDOOR AIR INTAKE FLOW (CFM) , Vot **2677**

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OUTDOOR AIR CALCULATION (SINGLE ZONE OR 100% OSA SYSTEM)

SYSTEM: — BASED ON ASHRAE 62.1-2007 - TABLE 6-1

ROOM #	ZONE	DESCRIPTION	APPLICATION	AREA (SF)	TABLE 6-1 OUTDOOR AIR (CFM/SF)	TABLE 6-1 OCCUPANCY (P/1OOO SF)	CALCULATED OCCUPANTS	OVERRIDE # OCCUPANTS/ # FIXTURES	NUMBER OF OCCUPANTS / FIXTURES Vbz	OUTDOOR AIR REQ. (CFM/PERSON)	EXHAUST RATE REQ. (CFM/SF)	BREATHING ZONE OUTDOOR AIR FLOW (CFM)	TABLE 6-2 ZONE AIR DIST. EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	EXHAUST REQUIRED (CFM)	OSA/EXH AIRFLOW PROVIDED (CFM)
101		RESIDENTIAL LOBBY	MAIN ENTRY LOBBIES	1009	0.06	10	10.1	5	5.0	5.0	-	86	0.8	107	-	400
103		BIKE ROOM	OCCUPIIABLE STOR. FOR DRY GOODS	254	0.06	2	0.5	3	3.0	5.0	0.0	30	0.8	38	0	220
104		TRASH ROOM	(EXH) JANITOR, TRASH, RECYCLE ROOMS	175	-	-	-	0	0.0	-	1.0	0	0.8	0	175	350
105		FIRE PUMP	(EXH) JANITOR, TRASH, RECYCLE ROOMS	67	-	-	-	0	0.0	-	1.0	0	0.8	0	67	300
106		ELECTRICAL	(EXH) JANITOR, TRASH, RECYCLE ROOMS	128	-	-	-	0	0.0	-	1.0	0	0.8	0	128	250
				1,633				Total all zones Pz:	**8.0**			**1,520**				

LEED EQc2 - 30% Increased Ventilation ?: **NO**

OUTDOOR AIR INTAKE FLOW (CFM) , Vot **145**

OUTDOOR AIR CALCULATION (SINGLE ZONE OR 100% OSA SYSTEM) - TYPICAL RESIDENT UNIT

SYSTEM: R-1 — BASED ON ASHRAE 62.1-2007 - TABLE 6-1

ROOM #	ZONE	DESCRIPTION	APPLICATION	AREA (SF)	TABLE 6-1 OUTDOOR AIR (CFM/SF)	TABLE 6-1 OCCUPANCY (P/1OOO SF)	CALCULATED OCCUPANTS	OVERRIDE # OCCUPANTS/ # FIXTURES	NUMBER OF OCCUPANTS / FIXTURES	OUTDOOR AIR REQ. (CFM/PERSON)	EXHAUST RATE REQ. (CFM/SF)	BREATHING ZONE OUTDOOR AIR FLOW (CFM) Vbz	TABLE 6-2 ZONE AIR DIST. EFFECTIVENESS Ez	ZONE OUTDOOR AIR FLOW (CFM) Voz	EXHAUST REQUIRED (CFM)	OSA/EXH AIRFLOW PROVIDED (CFM)
STUDIO A - 6/FLOOR		STUDIO (520 SF)	DWELLING UNIT	520	0.06	SEE TABLE 6-1	-	2	2.0	5.0	-	41	0.8	52	-	65
STUDIO TYPE A - 2/FLOOR		STUDIO (45O SF)	DWELLING UNIT	450	0.06	SEE TABLE 6-1	-	2	2.0	5.0	-	37	0.8	46	-	65
1 BD - 2/FLOOR		1 BEDROOM	DWELLING UNIT	595	0.06	SEE TABLE 6-1	-	2	2.0	5.0	-	46	0.8	57	-	65
				1,565				Total all zones Pz:	**6.0**							-

LEED EQc2 - 30% Increased Ventilation ?: **NO**

OUTDOOR AIR INTAKE FLOW (CFM) , Vot - SEE MAKEUP AIR TABLE BELOW 6

6

RESIDENT UNIT VENTILATION - MAKEUP AIR UNIT SIZING

SPACE TYPE	VENT. CFM	LEVEL 2 COUNT	LEVEL 3 COUNT	LEVEL 4 COUNT	TOTAL COUNT	TOTAL CFM
STUDIO	65	6	6	6	18	1,170
STUDIO-TYPEA	65	2	2	2	6	390
1BD	65	2	2	2	6	390
CORRIDOR	300	1	1	1	3	900
					MAU R-1	2,850

City Of Portland

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Date: 06/04/21

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SCHEDULES

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M004

Sheet

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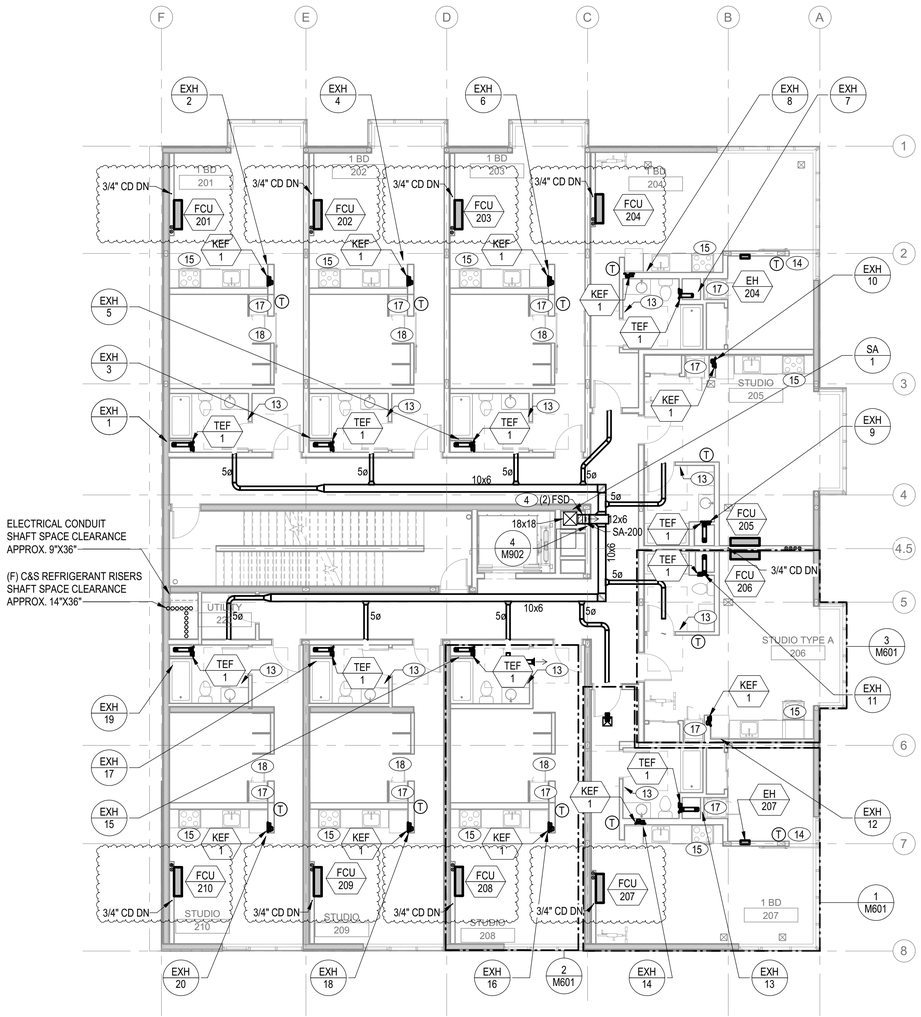
SHEET NOTES

A. REFRIGERANT LINES SETS ARE NOT ACCEPTABLE - HARD COPPER RUNS ARE REQUIRED. WHERE REFRIGERANT RUNS EXPOSED, LINE IN ALUMINUM JACKET.
B. 7' MAX. LENGTH FOR FLEX DUCTWORK
C. MAKEUP AIR VENTILATION DUCTWORK IN CORRIDORS SHALL BE PROVIDED W/O INSULATION DUE TO HEIGHT CONSTRAINTS. MAINTAIN SUPPLY AIR TEMPERATURE WITHIN 15 DEG OF SPACE TEMPERATURE PER ENERGY CODE AT ALL TIMES.
D. ALL DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH O.B.D.'S OR BALANCE DAMPERS ON BRANCH DUCTWORK REGARDLESS OF WHETHER IT IS SHOWN.
E. PROVIDE 3/4" CONDENSATE DRAIN LINES FROM ALL FAN COIL UNITS DN THROUGH WALLS TO 1ST FLOOR. SEE FIRST FLOOR FOR COLLECTION.
F. COORDINATE ACCESS PANELS TO ALL EQUIPMENT, AIRFLOW REGULATORS AND DAMPERS.

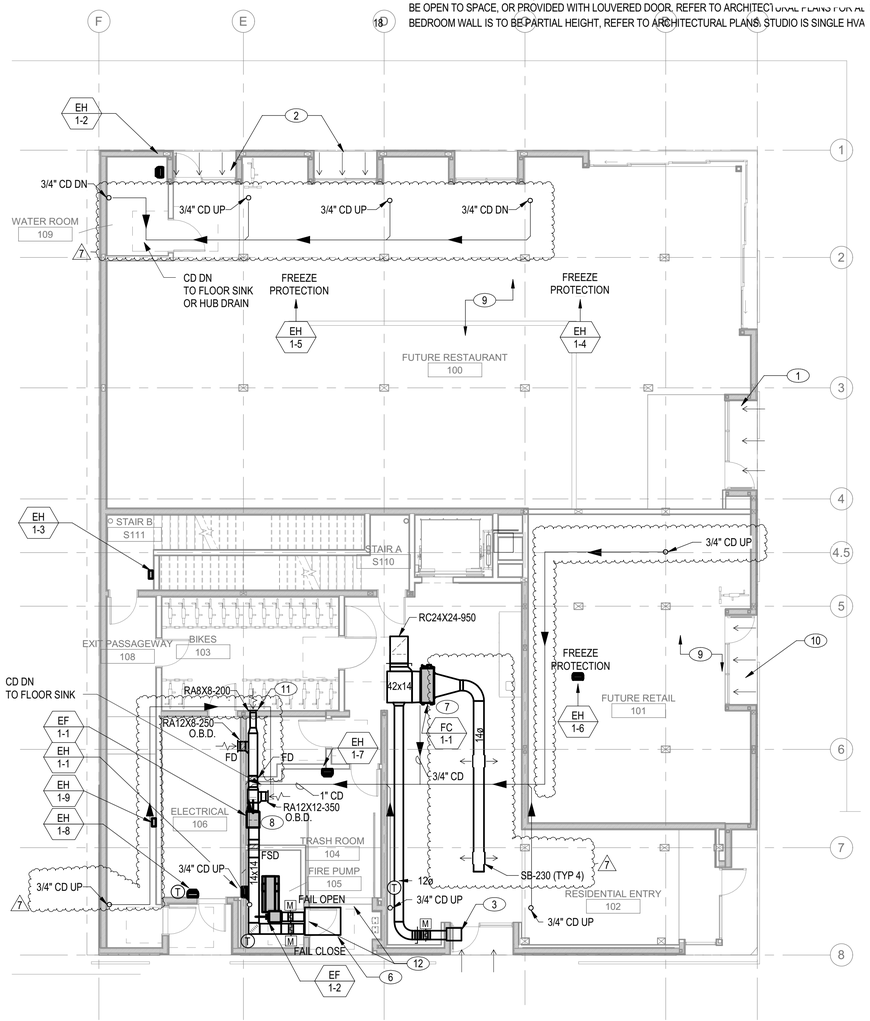
KEYED NOTES

1 ~2270 CFM VENTILATION AIRFLOW TO RESTAURANT DINING. PROVIDE 4 SQ. FT. FREE AREA LOUVE
2 ~5000 CFM KITCHEN MAKEUP AIR LOUVER (10 SQ. FT. FREE AREA)
3 400 CFM OSA AIRFLOW TO LOBBY. PROVIDE 0.8 SQ. FT. FREE AREA LOUVER MIN. PLENUM OFF ACTIVE SECTION OF LOUVER, BLANK OFF INACTIVE SECTIONS.
4 CORRIDOR SUPPLY AIR LOW, ~7' A.F.F. PROVIDE SIDEWALL GRILLE/O.B.D./FSD WITH THRU GRILLE ACCESS. REFER TO RISER DIAGRAM M5.1. AND DETAIL 4/M902. UNIT VENTILATION AIR HIGH, ROUTES IN CEILING. PROVIDE FSD AT SHAFT PENETRATION WITH ACCESS PANEL IN CEILING.
5 NOTE USED.
6 1170 CFM TOTAL EXHAUST AIRFLOW FROM GROUND FLOOR AND FIRE PUMP ROOM TO SHARED DISCHARGE PLENUM. PROVIDE THERMOSTAT CONTROL AND 3 SQ. FT. FREE AREA LOUVER MIN. PLENUM OFF ACTIVE SECTION OF LOUVER AND BLANK OFF INACTIVE SECTIONS.
7 FAN COIL UNIT SERVING RESIDENT LOBBY TO PROVIDE VENTILATION AIR THAT EXCEEDS 0.02 CFM/SF AND CONTROLLED BY THERMOSTAT SCHEDULE TO RUN EVERY 6 HOURS DURING EVENING SCHEDULE, TO MEET RADON MITIGATION REQUIREMENTS.
8 FAN TO RUN CONTINUOUSLY.
9 FUTURE TENANT SPACES TO HAVE LEASE AGREEMENT TO RUN VENTILATION ABOVE 0.02 CFM/SF. AND PROVIDE VENTILATION ON OFF HOUR SCHEDULE WITH EVERY 6 HOUR VENTILATION, PER RADON MITIGATION REQUIREMENTS.
10 ~410 CFM VENTILATION AIRFLOW TO RETAIL. PROVIDE 2 SQ. FT. FREE AREA LOUVER
11
12 LOUVERED DOOR AS PART OF MAKEUP AIR TO SPACE. LOUVERED DOOR FOR FIRE PUMP ROOM TO HAVE MINIMUM 0.4 SF FREE AREA. LOUVERED GARAGE DOOR FOR TRASH ROOM TO HAVE MINIMUM 0.5 SF FREE AREA. BASIS OF DESIGN IS GREENHECK ESU-150S. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL PLACEMENT FOR LOUVER ON DOOR.
13 TOILET EXHAUST FAN (TEF-1) TO BE CONTROLLED BY WALL MOUNTED SWITCH. LOCATION INDICATED FOR REFERENCE ONLY, FINAL LOCATION TO BE COORDINATED WITH ARCHITECT.
14 CADET WALL HEATER TO BE CONTROLLED BY WALL MOUNTED THERMOSTAT, SEE CADET HEATER SCHEDULE. LOCATION INDICATED FOR REFERENCE ONLY, FINAL LOCATION TO BE COORDINATED WITH ARCHITECT.
15 EACH RESIDENT UNIT PROVIDED RECIRCULATION KITCHEN HOOD, THESE ARE NOT TIED TO MECHANICAL EXHAUST SYSTEMS. HOODS ARE TO BE SELECTED BY ARCHITECT AND INSTALLED BY ELECTRICAL CONTRACTOR. NOTE FOR REFERENCE ONLY.
17 DRYER TO BE CONDENSING, VENTLESS STLYE UNIT. DUCTWORK IS NOT TO BE PROVIDED FOR DIRECT VENTILATION TO EXTERIOR. UNIT IS TO BE OPEN TO SPACE, OR PROVIDED WITH LOUVERED DOOR, REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL FORMATION.
18 BEDROOM WALL IS TO BE PARTIAL HEIGHT, REFER TO ARCHITECTURAL PLANS. STUDIO IS SINGLE HVA ZONE WITH DEDICATED SPLIT SYSTEM.



2 LEVEL 2 - FLOOR PLAN - MECHANICAL

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



1 GROUND - FLOOR PLAN - MECHANICAL

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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1	ADDENDUM 2	2018-03-30
2	ADDENDUM 3	2018-06-08
3	ADDENDUM 3.2	2018-07-13
4	ADDENDUM 4	2018-08-06
6	ASI 03	2021-02-02
7	ASI 03 REV 1	2021-02-19

GROUND LEVEL & 2ND FLOOR PLANS - MECHANICAL

Sheet Name

M200

Sheet

SUBMITTED 2/26/21

KEYED NOTES

1 CORRIDOR SUPPLY AIR LOW, ~7' A.F.F. PROVIDE SIDEWALL GRILLE/O.B.D./FSD WITH THRU GRILLE ACCESS. REFER TO RISER DIAGRAM M5.1. AND DETAIL 4/M902. UNIT VENTILATION AIR HIGH, ROUTES IN CEILING. PROVIDE FSD AT SHAFT PENETRATION WITH ACCESS PANEL IN CEILING.

3 18x18 RATED ACCESS PANEL & DUCT PANEL FOR GREASE CLEANOUT ACCESS FOR FUTURE TENANT

4 TOILET EXHAUST FAN (TEF-1) TO B E MULTI-SPEED (CONTINUOUS LOW AND RAMP UP TO HIGH). CONTROLLED BY UNIT MOUNTED MOTION SENSOR, PROVIDED BY MANUFACTURER.

5 CADET WALL HEATER TO BE CONTROLLED BY WALL MOUNTED THERMOSTAT, SEE CADET HEATER SCHEDULE. LOCATION INDICATED FOR REFERENCE ONLY, FINAL LOCATION TO BE COORDINATED WITH ARCHITECT.

6 EACH RESIDENT UNIT PROVIDED RECIRCULATION KITCHEN HOOD, THESE ARE NOT TIED TO MECHANICAL EXHAUST SYSTEMS. HOODS ARE TO BE SELECTED BY ARCHITECT AND INSTALLED BY ELECTRICAL CONTRACTOR. NOTE FOR REFERENCE ONLY.

7 DRYER TO BE CONDENSING, VENTLESS STLYE UNIT. DUCTWORK IS NOT TO BE PROVIDED FOR DIRECT VENTILATION TO EXTERIOR. UNIT IS TO BE OPEN TO SPACE, OR PROVIDED WITH LOUVERED DOOR. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL FORMATION.

8 BEDROOM WALL IS TO BE PARTIAL HEIGHT, REFER TO ARCHITECTURAL PLANS. STUDIO IS SINGLE HVAC ZONE WITH DEDICATED SPLIT SYSTEM.

SHEET NOTES

A. REFRIGERANT LINES SETS ARE NOT ACCEPTABLE - HARD COPPER RUNS ARE REQUIRED. WHERE REFRIGERANT RUNS EXPOSED, INSTALL IN ALUMINUM JACKET.

B. 7' MAX. LENGTH FOR FLEX DUCTWORK

C. MAKEUP AIR VENTILATION DUCTWORK IN CORRIDORS SHALL BE PROVIDED W/O INSULATION DUE TO HEIGHT CONSTRAINTS. MAINTAIN SUPPLY AIR TEMPERATURE WITHIN 15 DEG OF SPACE TEMPERATURE PER ENERGY CODE AT ALL TIMES.

D. ALL DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH O.B.D.'S OR BALANCE DAMPERS ON BRANCH DUCTWORK REGARDLESS OF WHETHER IT IS SHOWN.

E. PROVIDE 3/4" CONDENSATE DRAIN LINES FROM ALL FAN COIL UNITS DN THROUGH WALLS TO 1ST FLOOR. SEE FIRST FLOOR FOR COLLECTION.

F. COORDINATE ACCESS PANELS TO ALL EQUIPMENT, AIRFLOW REGULATORS AND DAMPERS.

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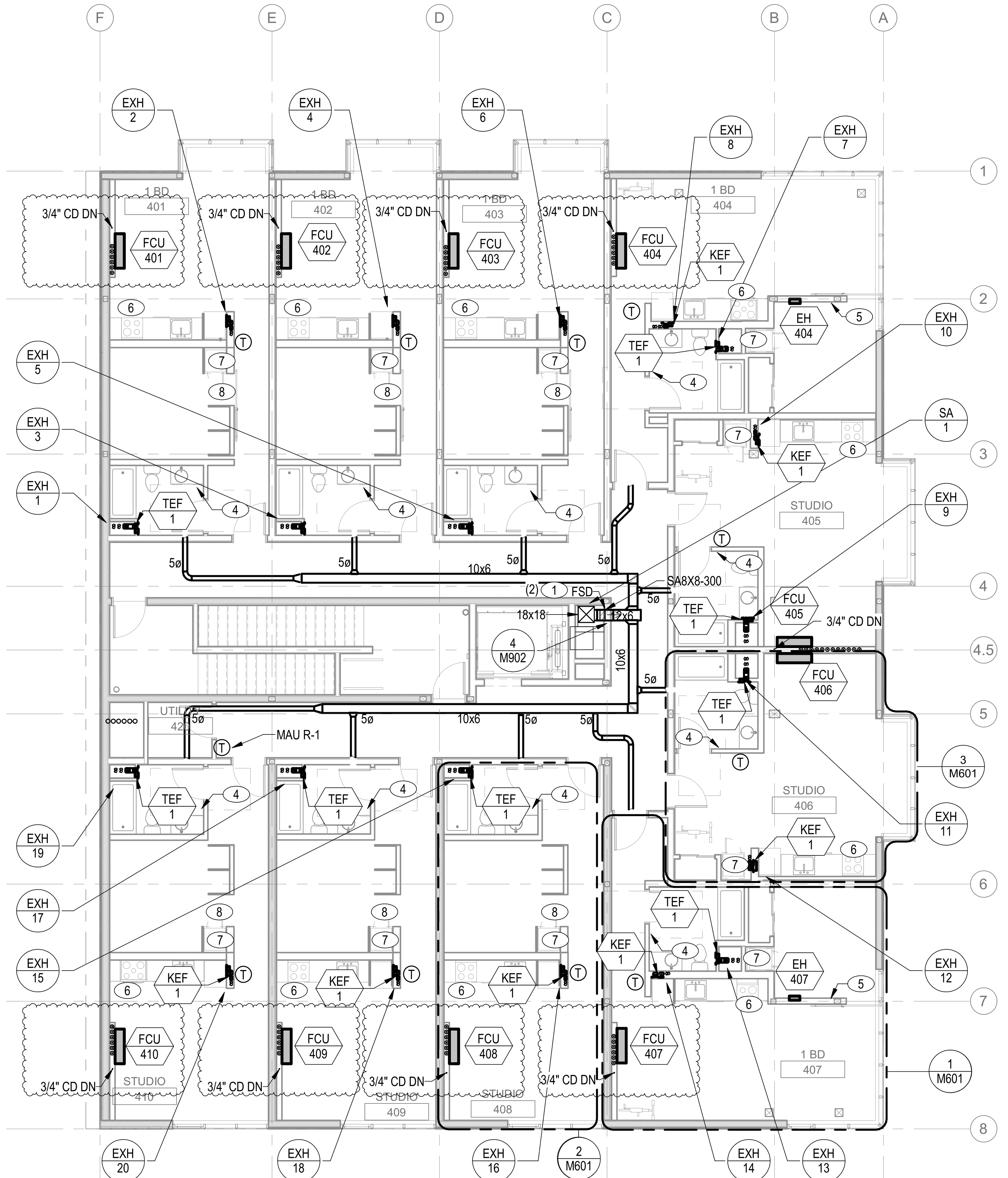
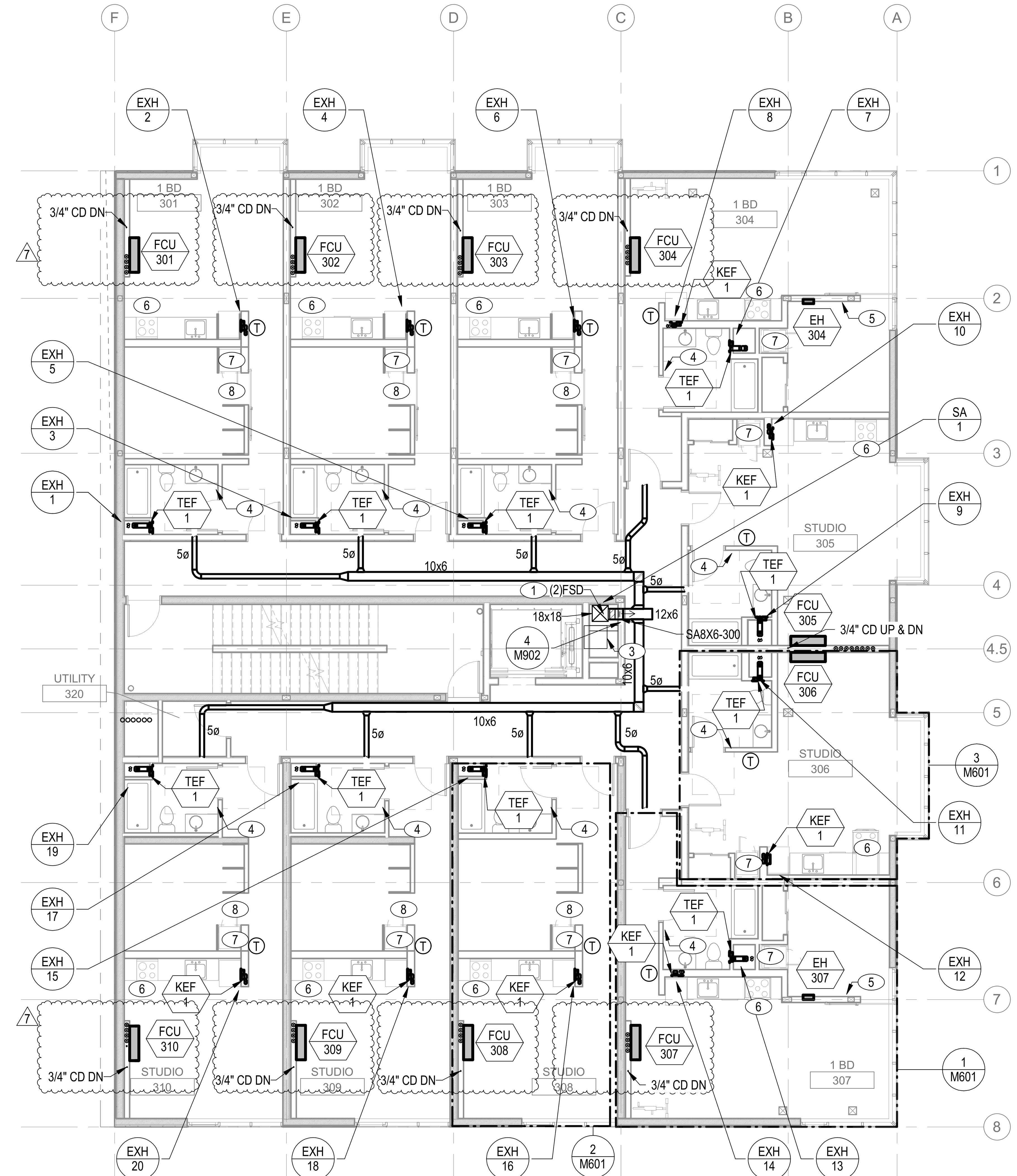
Date: 06/04/21
Permit #: 18-114385-REV-01 -CO



2 **LEVEL 4 - FLOOR PLAN - MECHANICAL**
SCALE: 1/8" = 1'-0"



1 **LEVEL 3 - FLOOR PLAN - MECHANICAL**
SCALE: 1/8" = 1'-0"

NORTH

1/8" = 1'-0"
0 8 16 24 32

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OREGON
DECEMBER 31, 2015
JOSHUA M. CHECKIS
DocuSigned by:
Joshua Checkis
BCC0D081D8EC4D6...

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6	ASI 03	2021-02-02
7	ASI 03 REV 1	2021-02-19

3RD & 4TH FLOOR PLANS - MECHANICAL

Sheet Name

M201
Sheet

SUBMITTED 2/26/21

KEYED NOTES (#)

1 GRAVITY RELIEF HOOD. GREENHECK WRH OR EQUAL. 20"x12"x12" (LxWxH) OR AS NECESSARY TO RECIEVE DUCTS/PIPES. SEE DETAIL 3/M903 FOR GRAVITY RELIEF HOODS.

2 NOT USED.

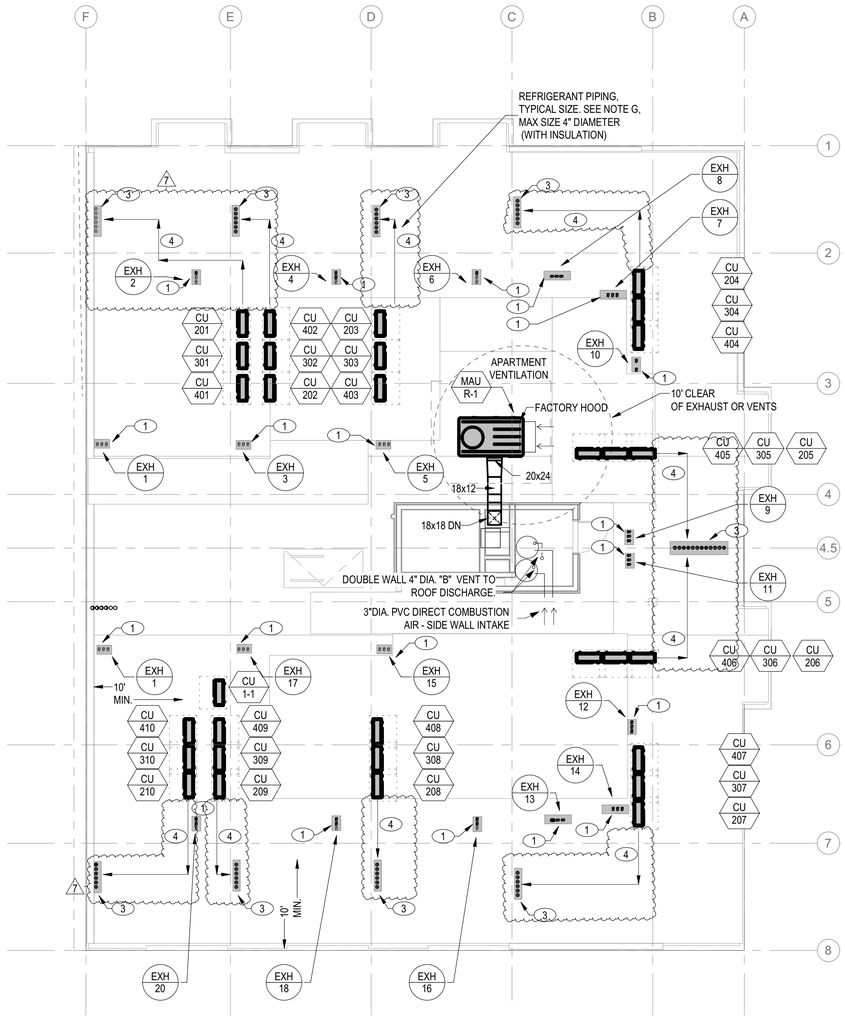
3 REFRIGERANT PIPE ROOF PENETRATION WITH SHEET METAL HOOD. SIZE OF HOOD TO MAINTAIN 6-INCH (ON CENTER) SPACING BETWEEN EACH VERTICAL PIPE RISER AND CLEARANCES AS REQUIRED. SEE DETAIL 1/M901 FOR ADDITIONAL INFORMATION.

4 REFRIGERANT PIPING TO ROUTE ON ROOF, FROM CONDENSING UNIT TO ASSOCIATED ROOF PENETRATION. CONTRACTOR RESPONSIBLE TO ROUTE AND INSTALL PIPING PER MANUFACTURER REQUIREMENTS TO NOT EXCEED MAXIMUM LINE LENGTHS.

SHEET NOTES

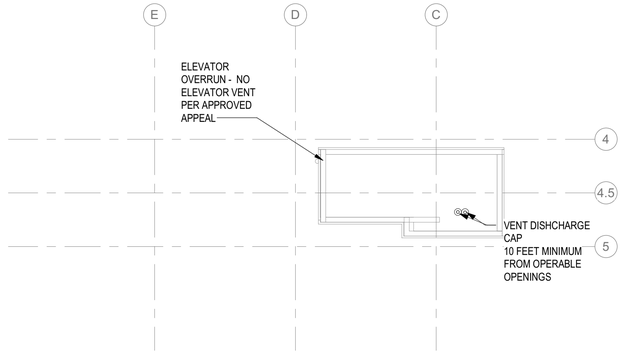
A. 10' LENGTH OF DUCTWORK DOWNSTREAM OF EXHAUST FANS AND MAKE UP AIR UNIT TO BE LINED WITH 1" FOAM ACOUSTICAL/THERMAL INSULATION.
B. REFRIGERANT LINES SETS ARE NOT ACCEPTABLE - HARD COPPER RUNS ARE REQUIRED.
C. COORDINATE ACCESS PANELS TO ALL EQUIPMENT, AIRFLOW REGULATORS AND DAMPERS.
D. FACTORY PROVIDED CURB FOR MAKE UP AIR UNIT
E. FACTORY PROVIDED CURB FOR EXHAUST FANS
F. DELEGATED DESIGN STANDS FOR CONDENSING UNITS
G. REFRIGERANT LINES ROUTED EXPOSED ON ROOF SHALL BE JACKETED WITH ALUMINUM.

City Of Portland
REVIEWED FOR CODE COMPLIANCE
LAND USE REVIEW
APPROVED
JAN 14 2021 REV 01
PLOT



ROOF LEVEL - FLOOR PLAN - MECHANICAL

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



UPPER ROOF - FLOOR PLAN - MECHANICAL

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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7	ASI 03 REV 1	2021-02-19

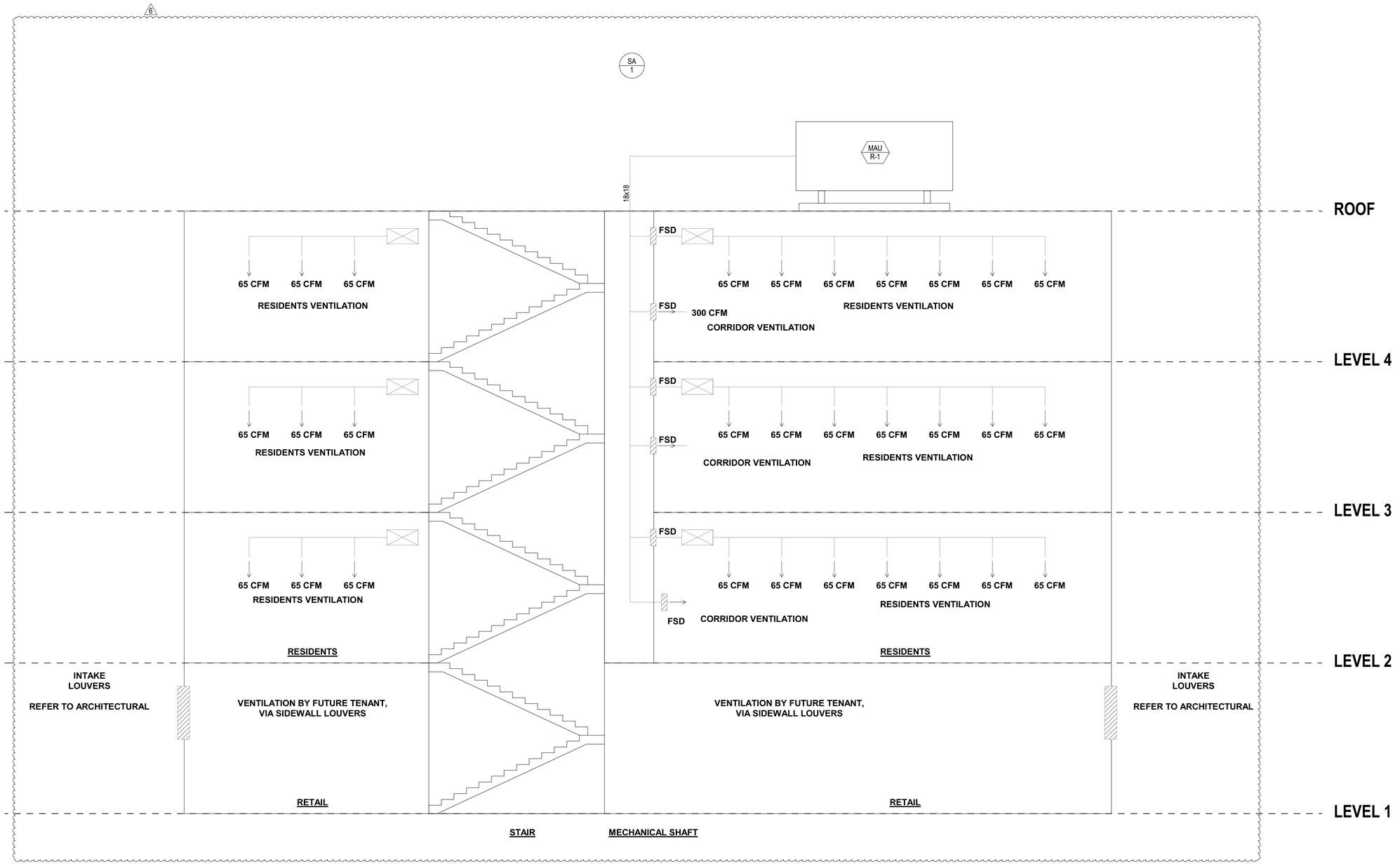
ROOF PLANS - MECHANICAL

Sheet Name

M202

Sheet

SUBMITTED 2/26/21



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SUPPLY AIR RISER

Sheet Name

M501

Sheet

SUBMITTED 2/26/21

6

DUCT RISER TO BE CONSTRUCTED IN COMPLIANCE WITH OSSC (2019) SECTION 717.6.1, EXCEPTIONS 1, 2, 3, 4, & 5. TYPICAL ALL RESIDENT EXHAUST FANS.

A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED THAT SUCH DUCT MEETS ALL OF THE FOLLOWING REQUIREMENTS:

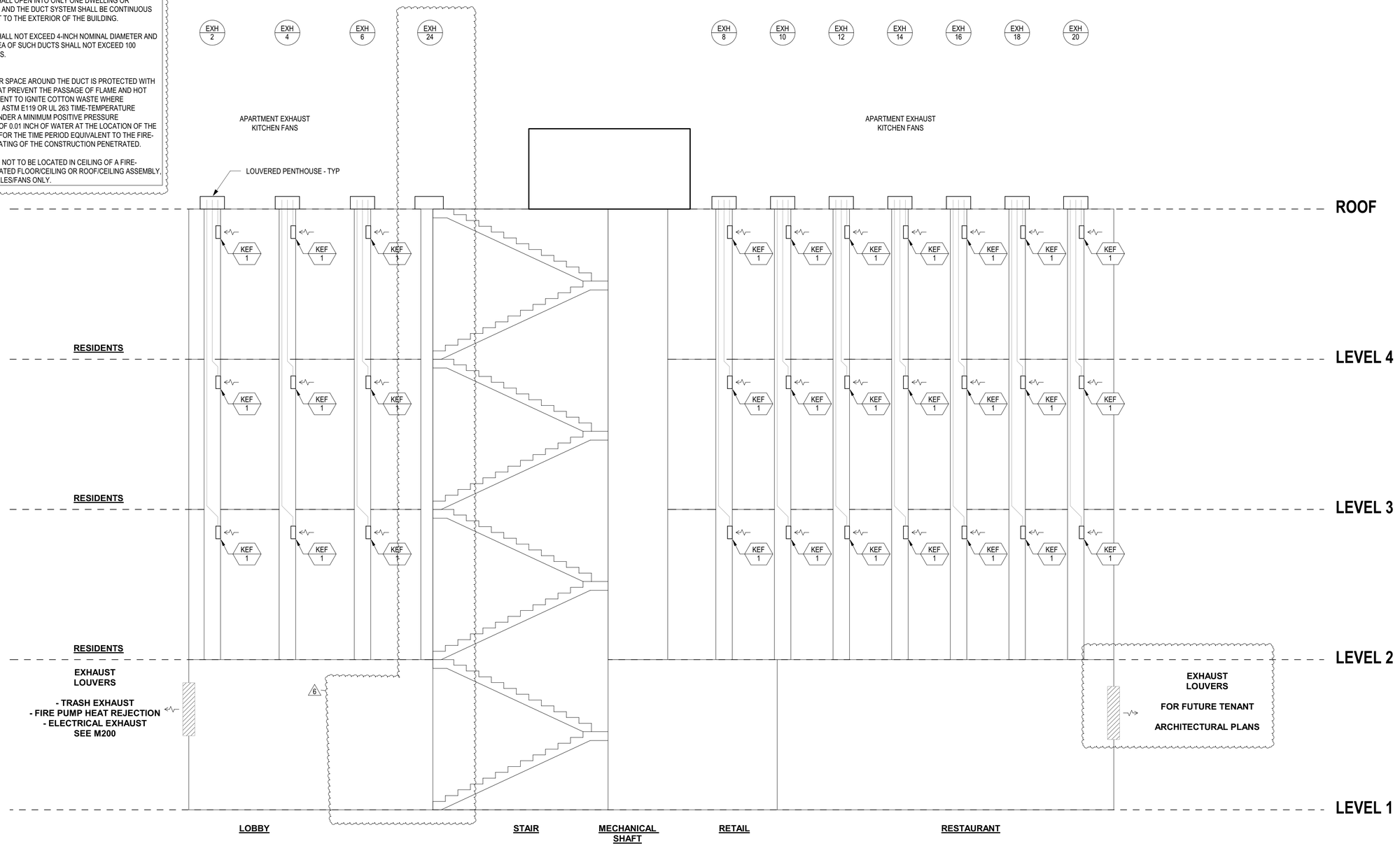
1. THE DUCT SHALL BE CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL AND SHALL BE CONSTRUCTED OF STEEL HAVING A MINIMUM WALL THICKNESS OF NO. 26 GAGE.

2. THE DUCT SHALL OPEN INTO ONLY ONE DWELLING OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING.

3. THE DUCT SHALL NOT EXCEED 4-INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES.

4. THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTM E119 OR UL 263 TIME-TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.

5. GRILLES ARE NOT TO BE LOCATED IN CEILING OF A FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY. SIDEWALL GRILLES/FANS ONLY.



1 EXHAUST AIR RISER DIAGRAM - KITCHEN & DRYER

SCALE: NONE

City Of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 06/04/21

Permit #: 18-114385-REV-01 -CO

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Issue Date: 2018-01-19

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6	ASI 03	2021-02-02

EXHAUST AIR RISER - KITCHEN

Sheet Name

M502

Sheet

SUBMITTED 2/26/21

DUCT RISER TO BE CONSTRUCTED IN COMPLIANCE WITH OSSC (2019) SECTION 717.6.1, EXCEPTIONS 1, 2, 3, 4, & 5. TYPICAL ALL RESIDENT EXHAUST FANS.

A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED THAT SUCH DUCT MEETS ALL OF THE FOLLOWING REQUIREMENTS:

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2. THE DUCT SHALL OPEN INTO ONLY ONE DWELLING OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING.

3. THE DUCT SHALL NOT EXCEED 4-INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES.

4. THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTM E119 OR UL 263 TIME-TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.

5. GRILLES ARE NOT TO BE LOCATED IN CEILING OF A FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY. SIDEWALL GRILLES/FANS ONLY.

6

EXH 1 | EXH 3 | EXH 5 | EXH 7 | EXH 9 | EXH 11 | EXH 13 | EXH 15 | EXH 17 | EXH 19

APARTMENT EXHAUST TOILET FANS

APARTMENT EXHAUST TOILET FANS

ROOF

LEVEL 4

RESIDENTS

LEVEL 3

RESIDENTS

LEVEL 2

RESIDENTS

EXHAUST LOUVERS

- TRASH EXHAUST
- FIRE PUMP HEAT REJECTION
- ELECTRICAL EXHAUST

SEE M202

EXHAUST LOUVERS

FOR FUTURE TENANT

ARCHITECTURAL PLANS

6

LEVEL 1

TEF 1

LOBBY | LAUNDRY | STAIR | MECHANICAL SHAFT | RETAIL | RESTAURANT

1 EXHAUST AIR RISER DIAGRAM - TOILET

SCALE: NONE

City Of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 06/04/21

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EXHAUST AIR RISER - TOILET

Sheet Name

M503

Sheet

SUBMITTED 2/26/21

KEYED NOTES (#)

1 FAN TO B E MULTI-SPEED (CONTINUOUS LOW AND RAMP UP TO HIGH). CONTROLLED BY UNIT MOUNTED MOTION SENSOR, PROVIDED BY MANUFACTURER.

2 ENCLOSED BEDROOMS SHALL BE VENTILATED PER OPERABLE WINDOWS. OPENABLE AREA SHALL BE EQUAL TO OR GREATER THAN 4% OF BEDROOM AREA PER OSSC. SEE ARCH DRAWINGS FOR ADDITIONAL INFORMATION.

SHEET NOTES

A. REFRIGERANT LINE SETS ARE NOT SHOWN. ALL HARD COPPER RUNS ARE RECOMMENDED. REFRIGERANT RUNS EXPOSED, LINE IN ALUMINUM JACKET.
B. 7' MAX. LENGTH FOR FLEX DUCTWORK.
C. MAKEUP AIR VENTILATION DUCTWORK IN CORRIDORS SHALL BE PROVIDED W/O INSULATION DUE TO HEIGHT CONSTRAINTS. MAINTAIN SUPPLY AIR TEMPERATURE WITHIN 15 DEG OF SPACE TEMPERATURE PER ENERGY CODE AT ALL TIMES.
D. ALL DIFFUSERS AND GRILLES SHALL BE PROVIDED WITH O.B.D.'S OR BALANCE DAMPERS ON BRANCH DUCTWORK REGARDLESS OF WHETHER IT IS SHOWN.
E. PROVIDE 3/4" CONDENSATE DRAIN LINES FROM ALL FAN COIL UNITS DN THROUGH WALLS TO 1ST FLOOR. SEE FIRST FLOOR FOR COLLECTION.
F. COORDINATE ACCESS PANELS TO ALL EQUIPMENT, AIRFLOW REGULATORS AND DAMPERS.

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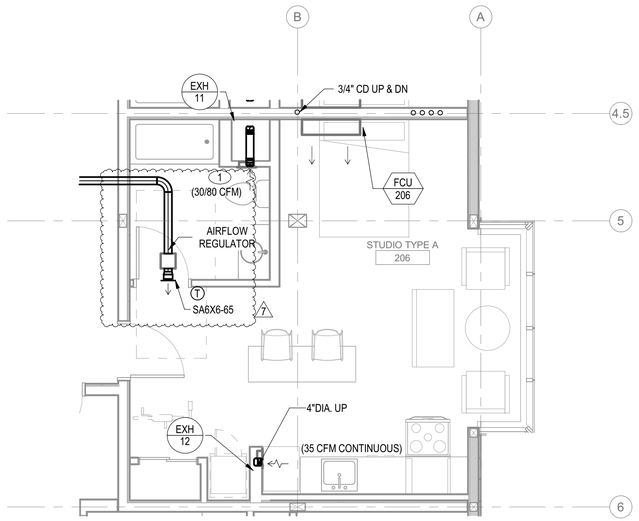
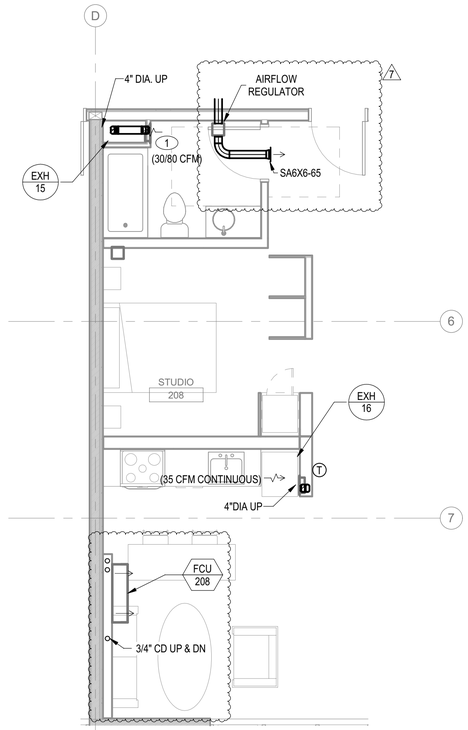
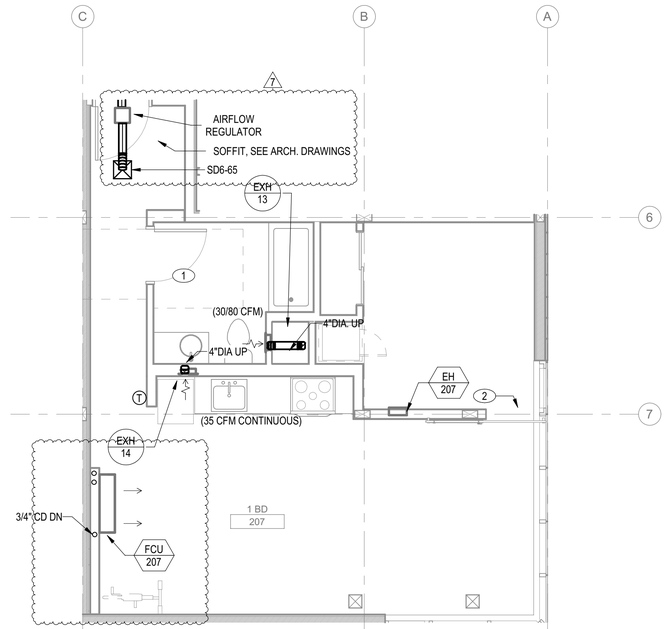


3 TYPICAL STUDIO A- MECHANICAL
SCALE: 1/4" = 1'-0"



2 TYPICAL STUDIO - MECHANICAL
SCALE: 1/4" = 1'-0"



1 TYPICAL 1BDRM - MECHANICAL
SCALE: 1/4" = 1'-0"

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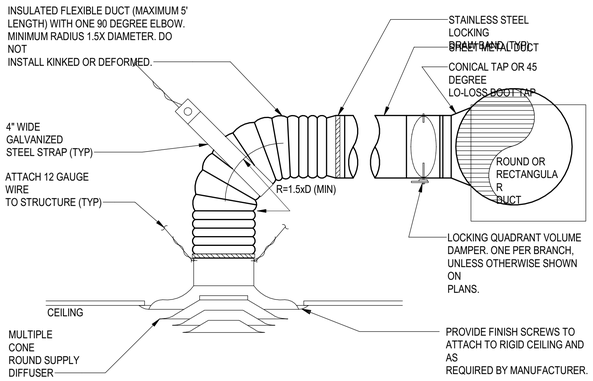
ENLARGED PLANS

Sheet Name

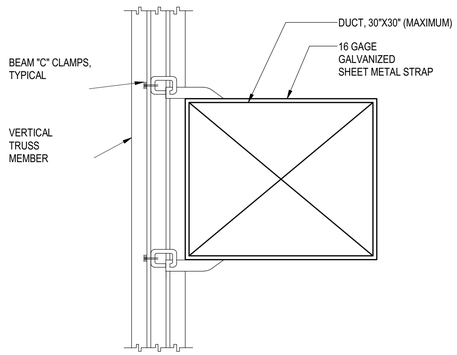
M601

SUBMITTED 2/26/21



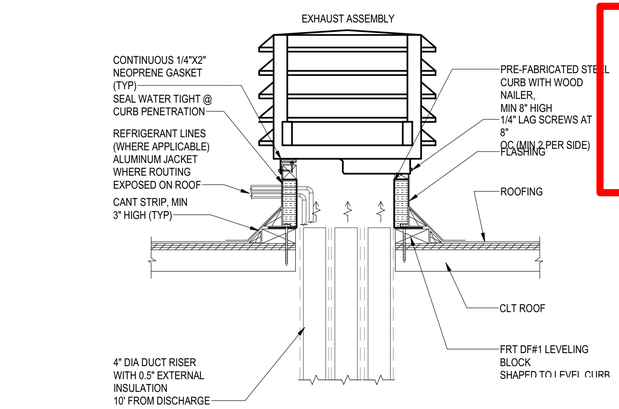
NOTES:
1. FOR INACCESSIBLE CEILING USE REMOTE FLEXIBLE STEEL SHAFT DAMPER OPERATOR OR PROVIDE 18"X18" (MIN) ACCESS DOOR.
2. IF FLEXIBLE DUCT SIZE INDICATED ON PLAN IS LARGER OR SMALLER THAN DIFFUSER NECK PROVIDE TRANSITION FITTING AT DIFFUSER NECK.
3. REFER TO STRUCTURAL DESIGN FOR ATTACHMENT REQUIREMENTS AND ADDITIONAL SUPPORT OPTIONS.

7 ROUND SUPPLY DIFFUSER-CEILING
SCALE: NONE



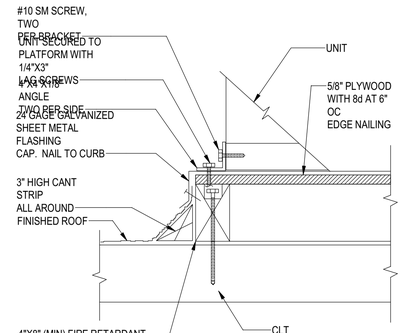
NOTES:
1. REFER TO PLANS FOR SIZES AND CONTINUATION.

5 RECT DUCT VERTICAL SUPPORT
SCALE: NONE



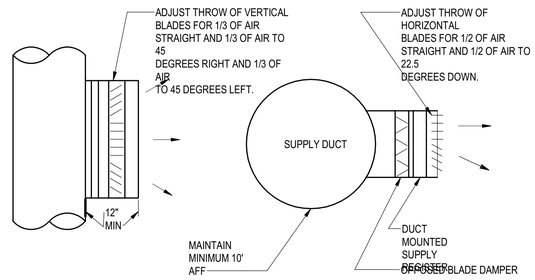
NOTES:
1. COORDINATE ROOF OPENING, BLOCKING, CURBING, CANT STRIPS & FLASHING WITH ROOFING INSTALLER. ROOF PENETRATIONS SHALL NOT VOID ROOF WARRANTY.
2. PROVIDE PACKING AND SEALING MATERIALS AS REQUIRED BY ROOF RATING.
3. ALL SIZING, LOCATION, AND ANCHORING SHALL BE COORDINATED WITH STRUCTURAL DESIGN.

3 GRAVITY RELIEF HOOD - WOOD ROOF
SCALE: NONE



NOTES:
1. COORDINATE ANCHORAGE REQUIREMENTS WITH STRUCTURAL DESIGN.

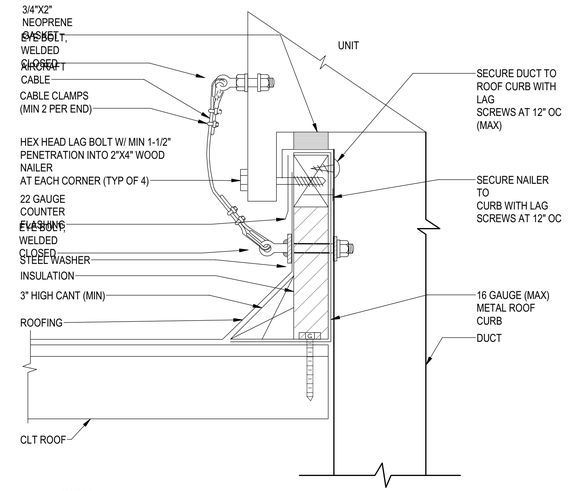
2 CONDENSING UNIT-ROOF MOUNTED
SCALE: NONE



NOTES:
1. ADJUST INITIAL AIR FLOW DIRECTIONS AS SHOWN. FINAL AIR BALANCE SHALL ADJUST FLOW DIRECTIONS TO REDUCE AIR VELOCITIES IN OCCUPIED SPACE TO 50 FPM (MAXIMUM).

1 EXPOSED DUCT SUPPLY REGISTER
SCALE: NONE

6



NOTES:
1. SEISMIC RESTRAINT ASSEMBLY SHALL BE INSTALLED DIAGONAL AT EACH CORNER FOR SMALL UNITS OR ON ALL SIDES OF LARGE UNIT, THREE ASSEMBLIES AT LONG SIDES AND ONE AT SHORT SIDE.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.
3. COORDINATE ANCHORAGE REQUIREMENTS WITH STRUCTURAL DESIGN.
4. ROOF-TOP EQUIPMENT SHALL BE INSTALLED ON THE ROOF IN A LOCATION WITH ADEQUATE STRUCTURAL STRENGTH TO SAFELY SUPPORT THE ENTIRE WEIGHT OF EQUIPMENT AND SERVICE PERSONNEL. CARE MUST BE TAKEN NOT TO DAMAGE THE ROOF, COORDINATE WITH STRUCTURAL ENGINEER.
5. IF BOLTED CONSTRUCTION IS NOT A VIABLE OPTION, PROVIDE WELDED CONNECTION PLATE.

4 CURB DETAIL-WOOD SEISMIC
SCALE: NONE

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CENTRAL LOFTS

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PORTLAND, OR 97203

EXPIRES: 12/31/21
REGISTERED PROFESSIONAL ENGINEER
90520PE
OREGON
JOSHUA M. CHECKIS
DECEMBER 31, 2015

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www.glumac.com

PERMIT SET

Issue Date: 2018-01-19

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4	ADDENDUM 4	2018-08-06
6	ASI 03	2021-02-02

MECHANICAL DETAILS

Sheet Name

M903

Sheet

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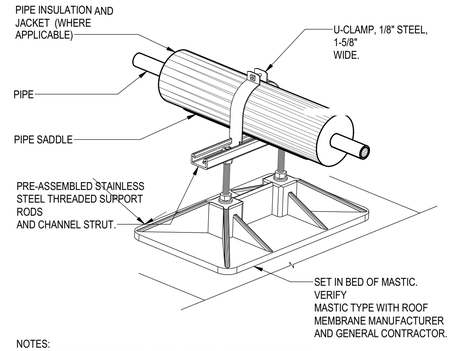
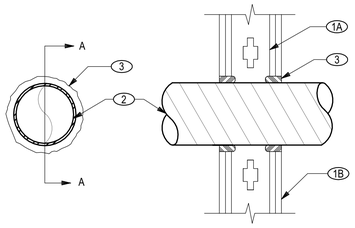


NOTES:
1. SUPPORT PIPE EVERY 6' OC (MAXIMUM) AND AT EACH ELBOW.

2 ROOF PIPE STAND

SCALE: NONE

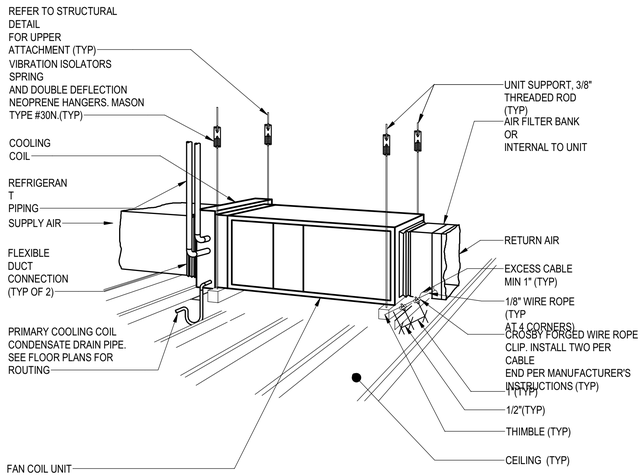


SECTION A-A

NOTES: (#)
1. WALL ASSEMBLY: THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS-WALL FRAMING SHALL CONSIST OF METAL STUDS TO BE MINIMUM 3-1/2" WIDE AND SPACED TO 24" OC.
   B. GYPSUM BOARD-TWO LAYERS OF NOMINAL 5/8" THICK GYPSUM WALLBOARD AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 17-1/2".
2. THROUGH PENETRANT: ONE STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN DUCT AND OPENING SHALL BE MIN OF 0 TO MAXIMUM OF 1-1/2". STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING SIZES OF STEEL DUCTS MAY BE USED:
   A. STEEL DUCT: NOMINAL 16" DIAMETER OR SMALLER, 24 GAUGE OR HEAVIER, SPIRAL WOUND GALVANIZED STEEL DUCT.
   B. STEEL DUCT: NOMINAL 10" DIAMETER OR SMALLER, 28 GAUGE OR HEAVIER, GALVANIZED STEEL VENT DUCT.
3. FILL, VOID OR CAVITY MATERIAL-CAULK OR SEALANT: MINIMUM 1-1/4" THICKNESS OF CAULK MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND WALLBOARD, A MINIMUM 1/4" DIAMETER BEAD OF CAULK SHALL BE APPLIED AT THE WALLBOARD/DUCT INTERFACE ON BOTH SURFACES OF THE WALL ASSEMBLY. THE HOURLY F RATING AND T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TESTED AND LISTED BY PRODUCT MANUFACTURER.

5 ROUND DUCT PENETRATION FRAMED WALL 2 HR

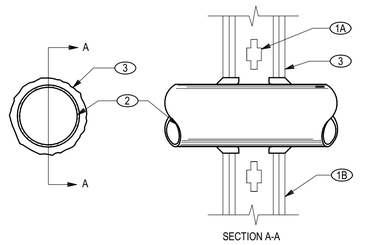
SCALE: NONE



NOTES:
1. REFER TO PLANS FOR SIZES AND CONTINUATION.
2. PROVIDE HIGH FLOAT SENSOR W/ ALARM TO SHUT DOWN UNIT IN EVENT OF PRIMARY CONDENSATE BLOCKAGE.
3. ACOUSTICALLY LINE SUPPLY AND RETURN DUCTS WITH 1" LINER 5' UPSTREAM/DOWNSTREAM OF FCU.

3 FAN COIL-SUSPENDED

SCALE: NONE



SECTION A-A

NOTES: (#)
1. WALL ASSEMBLY: THE 1 OR 2 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS.
   B. GYPSUM BOARD-NOMINAL 5/8" THICK. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
2. THROUGH PENETRANT: ONE METALLIC PIPE OR TUBE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0TO 2". PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
   A. STEEL PIPE: MAXIMUM 12" DIAMETER STEEL PIPE.
   B. IRON PIPE: MAXIMUM 12" CAST IRON OR DUCTILE IRON PIPE.
   C. COPPER TUBING: MAXIMUM 6" TYPE L OR HEAVIER COPPER TUBING OR COPPER PIPE.
   D. FLEXIBLE METAL PIPING: MAXIMUM 2" DIAMETER AS ALLOWED BY UL LISTING.
3. FILL, VOID OR CAVITY MATERIAL-CAULK OR SEALANT: MINIMUM 5/8" OR 5/8" THICKNESS OF CAULK FOR 1 AND 2 HOUR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. DIAMETER BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT MINIMUM 1/4 CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING AND T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TESTED AND LISTED BY PRODUCT MANUFACTURER. T=0 HOUR FOR PIPE DIAMETER GREATER THAN 1".
4. 3M SYSTEM #W-L-1001.

1 PIPE PENETRATION FRAMED WALL 1 OR 2 HR

SCALE: NONE

PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

6	ASI 03	2021-02-02

MECHANICAL DETAILS

Sheet Name

M904

Sheet

SUBMITTED 2/26/21

PLUMBING BASIS OF DESIGN

PLUMBING BASIS OF DESIGN

A. THIS BUILDING IS A NEW FOUR STORY RESIDENTIAL BUILDING WITH RETAIL ON THE FIRST FLOOR.

B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS AND COORDINATING WITH ALL DISCIPLINES.
1. DOMESTIC WATER BOOSTER SYSTEM: THE AVAILABLE UTILITY WATER SERVICE PRESSURE IS INADEQUATE TO SERVE BUILDING THE BUILDING. A DUPLEX COLD WATER DISTRIBUTION PUMPING SYSTEM WITH A PNEUMATIC STORAGE TANK WILL BE INSTALLED TO INCREASE THE AVAILABLE WATER PRESSURE TO 30 PSI ON THE TOP FLOOR.
2. LEED FOR HOMES: ALL HOT WATER, AND HOT WATER RECIRCULATION PIPING IS TO BE INSULATED TO MEET THE LEED AND OREGON ENERGY CODE STANDARDS. PIPING RUNS FROM EACH PEX MANIFOLD SHALL BE LIMITED TO 20FT, PER LEED REQUIREMENTS.

C. CODES AND STANDARDS
1. AMERICANS WITH DISABILITIES ACT (ADA)
2. NFPA 99: HEALTH CARE FACILITIES CODE, 2012 EDITION
3. OREGON BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
   A) 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC) BASED ON THE 2012 INTERNATIONAL BUILDING CODE WITH STATE AMENDMENTS.
   B) 2014 OREGON PLUMBING SPECIALTY CODE (OPSC) BASED ON THE 2009 UNIFORM PLUMBING CODE WITH STATE AMENDMENTS.
   C) 2014 OREGON MECHANICAL SPECIALTY CODE (OMSC) BASED ON THE 2012 INTERNATIONAL MECHANICAL CODE AND THE 2012 INTERNATIONAL FUEL GAS CODE (IMC).

D. OUTDOOR DESIGN CONDITIONS (FOR INSULATION AND GAS FIRING CRITERIA):
1. WINTER: 31°F
2. ELEVATION: 200 FT.

E. WATER SUPPLY:
1. MINIMUM AVAILABLE WATER PRESSURE (STATIC): 55 PSI AVAILABLE FROM MUNICIPAL WATER SERVICE
2. COLD WATER PIPE SIZE: 3-INCHES
3. COLD WATER TOTAL CAPACITY: 700 WFU
4. COLD WATER CONNECTED LOAD: 444.0 WFU (6)
5. ANTICIPATED FUTURE RETAIL LOAD: 50 WFU

F. DOMESTIC HOT WATER:
1. DOMESTIC HOT WATER SUPPLY TEMPERATURE: 120°F
2. DOMESTIC HOT WATER RECIRCULATION TEMPERATURE: ON: 95°F, OFF:105°F
3. DOMESTIC INCOMING COLD WATER TEMPERATURE: 50°F (USED FOR WATER HEATER SIZING)
4. DOMESTIC HOT WATER HEATER SETPOINT TEMPERATURE: 140°F
5. DOMESTIC SHOWER DEMAND PERIOD: 2 HOURS BETWEEN 6 AM AND 8 AM.
6. DEMAND PERIOD FOR PEAK SHOWER WATER USAGE: 8 MINUTES PER SHOWER, 2 SHOWERS PER UNIT, OR 16 MINUTES PER HOUR PER UNIT.

G. SANITARY SEWER:
1. BUILDING SEWER SIZE 6-INCHES AT 1% SLOPE
2. TOTAL CAPACITY: 576 DFU
3. CONNECTED LOAD: 396 DFU (6)
4. ALLOWABLE FUTURE RETAIL LOAD: 180 DFU

H. STORM DRAIN:
1. RAINFALL INTENSITY: 1.3 INCHES/HOUR
2. COMBINED STORM/OVERFLOW INTENSITY: 2.6 INCHES/HR

I. NATURAL GAS SERVICE:
1. GAS PROVIDER: NW NATURAL
2. DELIVERY OF LOW PRESSURE GAS: 2-INCHES WATER COLUMN
3. HOUSE METER: 500 CFH
4. FUTURE RETAIL METER: 1,300 CFH EACH

J. SEISMIC:
1. ANCHORAGE AND RESTRAINTS MUST BE COORDINATED WITH STRUCTURAL ENGINEER AND AUTHORITY HAVING JURISDICTION.

K. THE PLUMBING SYSTEM INCLUDES THE FOLLOWING SUSTAINABLE DESIGN FEATURES:
1. ULTRA LOW-FLOW TOILET: 1.28 GALLON PER FLUSH
2. CONDENSING-TYPE HIGH EFFICIENCY DOMESTIC HOT WATER HEATERS.

ABBREVIATIONS

ABV	ABOVE
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
ARCH	ARCHITECT
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CR	STEAM CONDENSATE RETURN
CFF	CAP FOR FUTURE
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CV	CHECK VALVE
CW	DOMESTIC COLD WATER
CWFU	COLD WATER FIXTURE UNIT
DN	DOWN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DSN	DOWNSPOUT NOZZLE
DWG	DRAWING
DWV	DRAINAGE WASTE AND VENT
E	EXISTING
ELEC	ELECTRICAL
FA	FLOW ALARM
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FDV	FIRE DEPARTMENT VALVE
FDVC	FIRE DEPARTMENT VALVE CABINET
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHV	FIRE HOSE VALVE
FIN	FINISHED
FO	FUEL OIL
FPS	FEET PER SECOND
FT	FEET
FT	FLUSH TANK
FU	FIXTURE UNIT
FV	FLUSH VALVE
G	GAS
GAL	GALLONS
GC	GAS COCK
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HD	HUB DRAIN
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER RECIRCULATION
HWFU	HOT WATER FIXTURE UNIT
IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS
IE	INVERT ELEVATION
LAV	LAVATORY
LBS	POUNDS (UNIT OF FORCE)
MAX	MAXIMUM
MBH	THOUSANDS BTU/HR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN OR NUMBER
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OW	OIL WASTE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
RI&C	ROUGH IN AND CONNECT
RP	REDUCED-PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
SD	STORM DRAIN
SF	SQUARE FEET
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
SOV	SHUT-OFF VALVE
SPR	SPRINKLER
SS	SANITARY SEWER
TP	TRAP PRIMER
TS	TAMPER SWITCH
TT	TEST TEE
TYP	TYPICAL
U	URINAL
VB	VACUUM BREAKER
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WCO	WALL CLEANOUT
W/	WITH
YB	YARD BOX

PLUMBING LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHT

SYMBOL	DESCRIPTION
	TRAP PRIMER
	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	BALANCING VALVE
	SHUT OFF VALVE IN CONCRETE YARD BOX
	ANGLE GATE VALVE
	SOLENOID VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	MIXING VALVE
	PLUG VALVE / GAS COCK
	RELIEF VALVE
	VACUUM RELIEF VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	AUTOMATIC AIR VENT
	BACKWATER VALVE
	REDUCED - PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RP)
	UNION
	STRAINER
	STRAINER WITH BLOW OFF HOSE BIBB
	PIPE ANCHOR
	PIPE ALIGNMENT GUIDE
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	CAP OR PLUG
	BLIND FLANGE
	CONCENTRIC REDUCER
	AQUASTAT
	WATER HAMMER ARRESTOR
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	CLEANOUT/WALL CLEANOUT
	FLOOR CLEANOUT
	YARD CLEANOUT
	TEST TEE
	WALL HYDRANT
	HOSE BIBB
	YARD HYDRANT
	THRUST BLOCK
	FLOOR DRAIN
	FLOOR SINK W/ GRATE AS SHOWN
	HUB DRAIN
	ROOF RECEPTOR
	STORM DRAIN
	OVERFLOW DRAIN
	DECK DRAIN, PLANTER DRAIN
	DOWN SPOUT NOZZLE

SYMBOL	DESCRIPTION
1% SLOPE	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	PIPE UP OR UP & DN
	PIPE DOWN
	PIPE DROP
	TOP CONNECTION - BRANCH LINE
	BOTTOM CONNECTION - BRANCH LINE
	COLD WATER
140	HOT WATER (120°F)
	HOT WATER RECIRCULATION (110°F)
120	HOT WATER (140°F)
	HOT WATER RECIRCULATION (122°F)
	VENT
SS	PIPING BELOW GRADE OR FLOOR
SD	PIPING ABOVE GRADE OR FLOOR
OD	SANITARY SEWER, WASTE OR SOIL
PD	STORM DRAIN, RAINWATER DRAIN PIPING
D	OVERFLOW STORM DRAIN PIPING
IW	PUMPED DISCHARGE
GW	DRAIN LINE
G	INDIRECT WASTE
MG	GREASE WASTE
LG	NATURAL GAS (7"W.C.)
CA	MEDIUM PRESSURE GAS (2 PSIG TO 5 PSIG)
(E)	LOW PRESSURE GAS
TW	COMPRESSED AIR
TWR	EXISTING PIPE
6"	TEMPERED WATER
(E)	TEMPERED WATER RETURN
(D)	PIPE SIZE (DIAMETER IN INCHES)
(F)	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
	FUTURE WORK
(RL)	RELOCATE EXISTING
	CENTER LINE
	POINT OF CONNECTION OR POINT OF DISCONNECTION
SS	SANITARY SEWER STACK
V	VENT STACKS
CW	COLD WATER RISER
HW	HOT WATER RISER
HWC	HOT WATER RECIRC. RISER
G	GAS RISER
SD	STORM DRAIN RISER
OD	OVERFLOW DRAIN RISER
CA	COMPRESSED AIR RISER
XX / X	PLUMBING EQUIPMENT
XXX	MISCELLANEOUS EQUIPMENT
#	KEYED NOTE
1 / P2	DETAIL NO. SHEET NO.
#	POUNDS OR NUMBER

FIRE PROTECTION

SYMBOL	DESCRIPTION
F	FIRE MAIN
AS	AUTOMATIC WET SPRINKLER
CSP	COMBINATION STAND PIPE
DSP	DRY STAND PIPE
	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
	DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY (DC)
	OS & Y GATE VALVE (OUTSIDE SCREW & YOKE GATE VALVE)
TS TS	OS & Y GATE VALVE WITH TAMPER SWITCH
FDC	FIRE DEPARTMENT CONNECTION
	AUTO FIRE SPRINKLER RISER
FDV	FIRE DEPARTMENT VALVE
	FIRE DEPARTMENT VALVE CABINET
	FIRE SPRINKLER FLOOR CONTROL VALVE
	SIEMESE FIRE DEPT. CONN.
	FIRE HOSE VALVE
	FIRE ALARM BELL
PS	PRESSURE SWITCH
FA	FLOW ALARM
FS	FLOW SWITCH
AS	AUTOMATIC WET SPRINKLER RISER
ASD	AUTOMATIC SPRINKLER DRAIN
WSP	WET STANDPIPE RISER

PLUMBING DRAWING LIST

SHEET NUMBER	SHEET NAME	Permit Set
P000	PLUMBING LEGEND AND ABBREVIATIONS	X
P001	SCHEDULES	X
P200	UNDERGROUND PLAN - PLUMBING	X
P201	GROUND LEVEL & 2ND FLOOR PLANS - PLUMBING	X
P202	3RD & 4TH FLOOR PLANS - PLUMBING	X
P203	ROOF PLANS - PLUMBING	X
P401	RISER DIAGRAMS	X
P402	WASTE RISER DIAGRAM	X
P601	ENLARGED PLANS AND ELEVATIONS	X
P901	PLUMBING DETAILS	X

City Of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 06/04/21

Permit #: 18-114385-REV-01 -CO

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Issue Date: 2018-01-19

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1	ADDENDUM 2	2018-03-30
6	ASI 03	2021-02-02

PLUMBING LEGEND AND ABBREVIATIONS

Sheet Name

P000

Sheet

SUBMITTED 2/26/21

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MANUFACTURER	MODEL	ADA (Y/N)	FLOW (GPF/GPM)	CONNECTION SIZE W	V	HW	CW	ELECTRICAL VOLTS	PHASE	AMPS	REMARKS
HB-1	HOSE BIBB	WOODFORD	17		0				3/4"				FREEZELESS ANTI-SIPHON HOSE BIBB W/ INTEGRAL BACKFLOW PRETECTION.
MS-1	MOP SINK	STERM WILLIAMS	CRS-2200BP	-	2.5	3"	2"	3/4"	3/4"				CHICAGO FAUCET: 897-CRCF WALL MOUNTED W/ VACUUM BREAKER, WALL BRACE, THREADED HOSE OUTLET, AND INTEGRAL STOPS
TP-1	TRAP PRIMER	PPP	OREGON #1						1/2"				FLOW ACTIVATED TRAP PRIMER
TP-2	TRAP PRIMER	PPP	PRIME TIME						1/2"	120	1	0	ELECTRONIC TRAP PRIMER
WB-1	WASHER BOX	IPS	W2802HA			2"	1 1/2"	1/2"	1/2"				
WH-1	WALL HYDRANT	WOODFORD	65C		0				3/4"				
DRAINS													
FD-1	FLOOR DRAIN (FINISHED)	JR SMITH	2010			4"							SEE PLANS FOR SIZE
FD-2	FLOOR DRAIN (MECHANICAL)	JR SMITH	2350			4"							SEE PLANS FOR SIZE
FS-1	FLOOR SINK	ZURN	FD2375										SEE PLANS FOR SIZE
OD-1	OVERFLOW DRAIN	JR SMITH	1070			3"							SEE PLANS FOR SIZE
RD-1	ROOF DRAIN	JR SMITH	1010			3"							SEE PLANS FOR SIZE
RESIDENTIAL													
L-1	LAVATORY COUNTERTOP	KOHLER	K-2202-4	YES	0.5	2"	1 1/2"	1/2"	1/2"				CHICAGO FAUCET: 2200-4E2805ABCP, GRID STRAINER
S-1	SINGLE BOWL SINK	ELKAY	DLR-2222-10	NO	1.5	2"	2"	3/4"	3/4"				CHICAGO FAUCET: 1100-GN2AE35-317AB SPREAD FITTING W/ BLADE HANDLES
S-2	SINGLE BOWL SINK	ELKAY	DLR-2222-6.5	YES	1.5	2"	2"	3/4"	3/4"				CHICAGO FAUCET: 1100-GN2AE35-317AB SPREAD FITTING W/ BLADE HANDLES
SH-1	SHOWER	FLOORSTONE	6032TS-3W	NO	1.5	2"	1 1/2"	3/4"	3/4"				FAUCET: SYMMONS 1-100-X-CHKS SAFETY MIX W/ PRESSURE BALANCING AND INTEGRAL STOPS. DRAIN: FIBER FAB V14ONC.
SH-2	SHOWER	FLOORSTONE	60-31HTS	YES	1.5	2"	1 1/2"	3/4"	3/4"				PROVIDE WITH: SYMMONS PRESSURE BALANCING MIXING VALVE, HAND HELD SHOWER HEAD WITH 60" HOSE, GRAB BARS, AND FOLDING SEAT.
WC-1	WATER CLOSET	AMERICAN STANDARD	CADET PRO 215CB.104	YES	1.28	4"	2"		1/2"				1.28 GALLONS PER FLUSH (GPF),BEMIS 1655-SSC SEAT

FIRE PUMP SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	FLOW (GPM)	HEAD (FT WG)	RPM	ELECTRICAL HP	VOLTS	PH	EMERG POWER (Y/N)	OPER. WT. (LBS)	NOTES
FP	1	PEERLESS	4AEF11	FIRE PUMP ROOM	HORIZONTAL SPLIT CASE	550	104	1760	25	208	3	No		1,2
JP	1	PEERLESS	CR2-30	FIRE PUMP ROOM	IN LINE	10	115	3450	3/4	208	3	No		1,2

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. FIRE DESIGN BY OTHERS. PUMPS SHOWN FOR COORDINATION PURPOSES ONLY.

ELEVATOR SUMP PUMP SCHEDULE

TAG	#	MANUFACTURER	MODEL	SYSTEM SERVED	PUMP TYPE	PUMP FLOW (GPM)	PUMP HEAD (FT WG)	PUMP RPM	PUMP QUAN.	ELECTRICAL HP	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL FLA	SINGLE POC (Y/N)	EMERG POWER (Y/N)	OPER. WT. (LBS)	NOTES
ESP	1	LIBERTY	291	ELEVATOR	SUBMERSIBLE	50	5	3450	1	3/4	115	1	10.4	Yes	No	35	1,2

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PROVIDE NON-OVERLOADING OIL FILLED, HERMETICALLY SEALED MOTOR.

DOMESTIC WATER HEATER SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	VOL (GAL)	RECOV (GPH)	EWT (°F)	LWT (°F)	CONNECTION SIZE CW (IN)	HW (IN)	NG (IN)	FLUE (IN)	NATURAL GAS INPUT (MBH)	NATURAL GAS EFF (AFUE%)	ELECTRICAL VOLTS	PH	FLA	UNIT SIZE (L"xW"xH")	OPER WT. (LBS)	NOTES
GWH	1	AO SMITH	BHT 250	ROOF	100	323	50	140	1 1/2"	1 1/2"	3/4"	4"	250	0.96	120	1	1	76x28x76	1507	1,2,3
GWH	2	AO SMITH	BHT 250	ROOF	100	323	50	140	1 1/2"	1 1/2"	3/4"	4"	250	0.96	120	1	1	76x28x76	1507	1,2,3

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. COORDINATE WITH MECHANICAL FOR FLUE VENTING.
3. CONDENSING TANK TYPE WATER HEATER, NATURAL GAS INPUT. PROVIDE CONCENTRIC AIR INTAKE AND EXHAUST FITTING. PROVIDE CPVC VENT PIPING.

PLUMBING EXPANSION TANK SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	TANK VOL. (GAL)	ACCEPT. VOL. (GAL)	FILL PRESS. (PSIG)	OPER. PRESS. (PSIG)	RELIEF PRESS. (PSIG)	MAX. TEMP. (°F)	SYSTEM CONN. (IN)	SIZE DIA x H (IN)	OPER. WT. (LBS)	NOTES
ET	1	WATTS	DETA-12	ROOF	VERTICAL	5	3.3	40	80	150	140	3/4"	12x12x14	55	1,2,3
HT	1	WESSELS	FXA 300	ROOF	HYDRO-PNEUMATIC	79	79	10	30	150	225	1 1/2"	24x24x55	235	1,2,3

NOTES
1. PROVIDE TANK RATED FOR ASME WORKING PRESSURE OF 125 PSIG.
2. PROVIDE TANK WITH VERTICAL CONFIGURATION.
3. ANCHOR TO HOUSEKEEPING PAD. COORDINATE WITH STRUCTURAL DESIGN.

DOMESTIC BOOSTER PUMP SKID SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	FLOW (GPM)	DISCHARGE PRESSURE (PSI)	PRESSURE BOOST (PSI)	RPM	ELECTRICAL HP	ELECTRICAL VOLTS	ELECTRICAL PH	SINGLE POC (Y/N)	EMERG POWER (Y/N)	SKID MOUNT (Y/N)	OPER. WT. (LBS)	NOTES
DWP	1	GOULDS	2B50-2-B-5-A-F-VS	WATER ENTRY	DUPLEX	102	72	49	3600	5	208	3	Yes	No	YES	410	1,2,3,4,5,6

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PROVIDE SINGLE POINT POWER CONNECTION TO SKID TO SERVE ALL PUMPS AND PROVIDE TRANSFORMER FOR CONTROL POWER.
3. PROVIDE NON-OVERLOADING NEMA PREMIUM EFFICIENCY, TOTALLY ENCLOSED FAN COOLED (TEFC), INVERTER READY MOTOR.
4. PROVIDE VARIABLE FREQUENCY DRIVE (VFD) BY MECHANICAL AND WIRED BY ELECTRICAL.
5. PROVIDE MOTOR SHAFT GROUNDING SYSTEM FOR MOTOR CONTROLLED BY VFD.
6. MAXIMUM WORKING PRESSURE 360 PSIG AND MAXIMUM OPERATING TEMPERATURE OF 225° F.

DOMESTIC RECIRCULATION PUMP SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	FLOW (GPM)	HEAD (FT WG)	RPM	CONNECTION SIZE (IN)	ON/OFF SETPOINT (°F)	ELECTRICAL WATTS	ELECTRICAL VOLTS	ELECTRICAL PH	EMERG POWER (Y/N)	OPER. WT. (LBS)	NOTES
CP	1	BELL & GOSSETT	NBF-12U	ROOF	10	5	2800	3/4"	90/105	55	120	1	No	10	1,2,3,4

NOTES
1. COORDINATE WITH ELECTRICAL FOR POWER AND DISCONNECT AS REQUIRED.
2. PUMP TO CONTAIN LESS THAN 0.25% LEAD CONTENT ON WETTED SURFACE FOR DOMESTIC DISTRIBUTION.
3. MAXIMUM WORKING PRESSURE 150 PSIG AND MAXIMUM OPERATING TEMPERATURE OF 225° F.
4. PROVIDE AQUASTAT TO OPERATE PUMP WHEN HOT WATER RETURN TEMPERATURE DROPS BELOW SETPOINT.

MIXING VALVE SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	FLOW RATE MIN (GPM)	FLOW RATE MAX (GPM)	PRESSURE DROP (PSI)	CONNECTION INLET (IN)	CONNECTION OUTLET (IN)	OUTLET SETPOINT (°F)	ELECTRICAL WATTS	ELECTRICAL VOLTS	ELECTRICAL PH	UNIT SIZE (L"xW"xH")	NOTES
MV	1	HEAT TIMER	915673-00	ROOF MECH	0.5	45	5	1 1/4"	1 1/4"	120	48	120	1	8x5x14	1,2

NOTES:
1. VALVE ASSEMBLY TO BE ASSE 1017 CERTIFIED
2. SELF REGULATING THERMOSTATIC MIXING VALVE TO MAINTAIN OUTLET TEMPERATURE OVER FULL RANGE OF FLOW.

BACKFLOW PREVENTION DEVICE SCHEDULE

TAG	#	MANUFACTURER	MODEL NUMBER	LOCATION	SYSTEM SERVED	SIZE (IN)	FLOW RATE MIN (GPM)	FLOW RATE MAX (GPM)	PRESSURE DROP (FT WG)	NOTES
DCDA	1	AMES	DERINGER 30	WATER ENTRY	FIRE	4	50	750	17	4
RPBA	1	WATTS	LF909	WATER ENTRY	DOMESTIC	3	2	250	12	1,2,3

NOTES
1. ROUTE RELIEF TO FLOOR SINK.
2. PROVIDE WITH AIRGAP.
3. PROVIDE WITH WATTS RPF-113 SHUT OFF VALVE FOR FLOOR PROTECTION.
4. BACKFLOW PREVENTOR TO BE INSTALLED IN VERTICAL ORIENTATION.

GREASE INTERCEPTOR SCHEDULE REMOVED

City Of Portland
REVIEWED FOR CODE COMPLIANCE
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Permit#: 18-114385-REV-01-CO

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2	ADDENDUM 3	2018-06-08
5	ASI 02	2020-12-31
6	ASI 03	2021-02-02
7	ASI 03 REV 1	2021-02-19

SCHEDULES

Sheet Name

P001

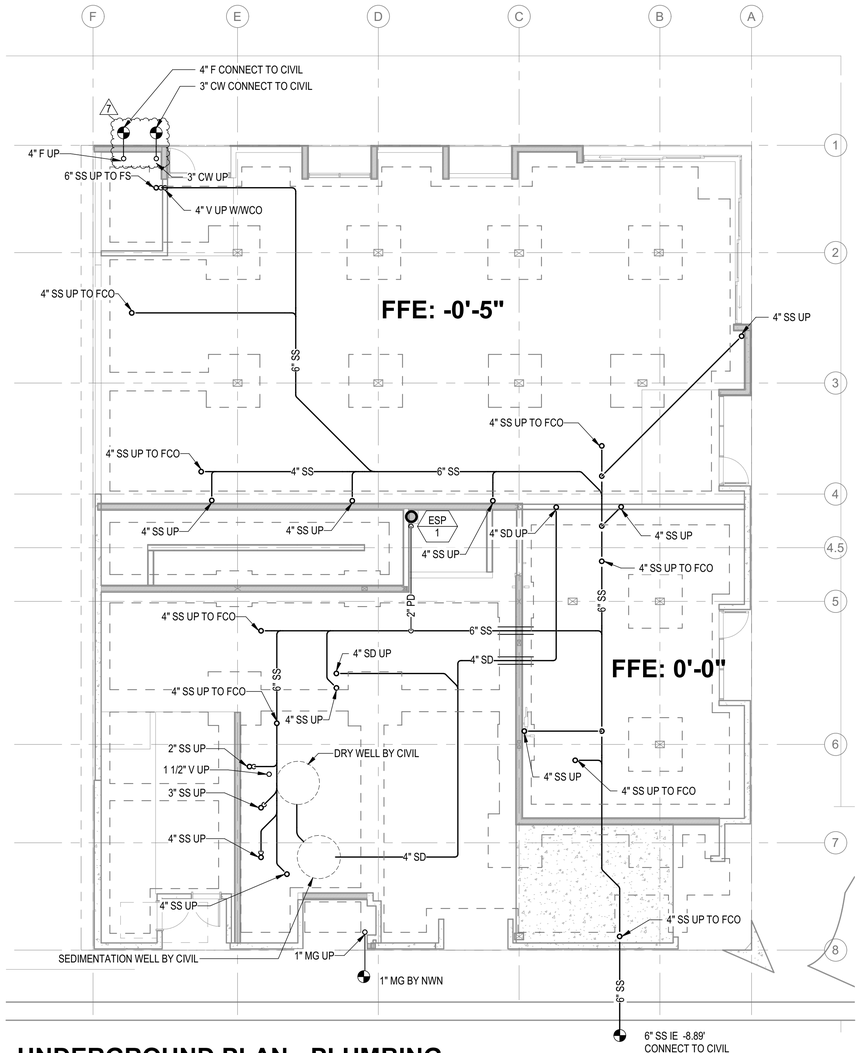
Sheet

SUBMITTED 2/26/21

SHEET NOTES

A. SLOPE HORIZONTAL STORM PIPING AT 2% SLOPE UNLESS OTHERWISE NOTED.

B. SLOPE HORIZONTAL SANITARY PIPING AT 1% SLOPE UNLESS OTHERWISE NOTED.



1 UNDERGROUND PLAN - PLUMBING

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

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6	ASI 03	2021-02-02
7	ASI 03 REV 1	2021-02-19

UNDERGROUND PLAN - PLUMBING

Sheet Name

P200

Sheet

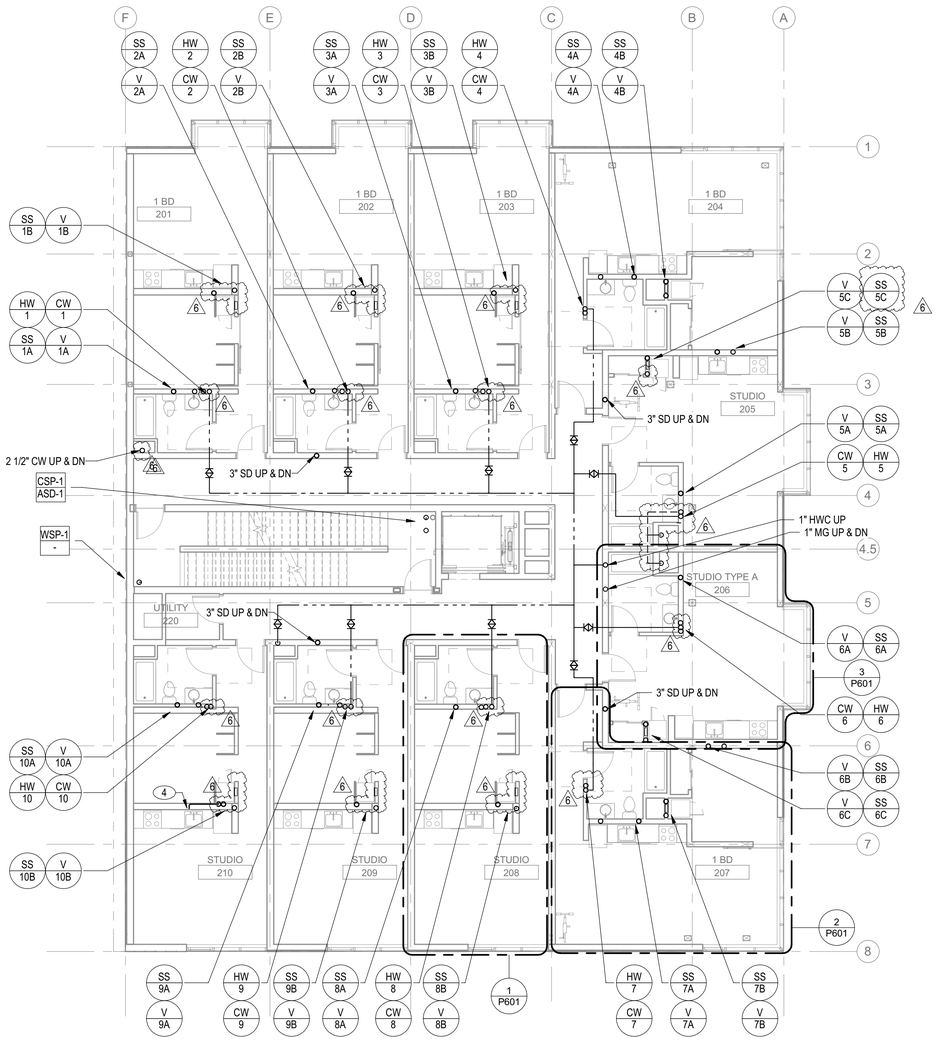
SUBMITTED 2/26/21

KEYED NOTES (#)

1 2" SS UP
2 4" SS UP
3 PROVIDE DRIP PAN UNDER PIPING IN ELECTRICAL ROOM.
4 PROVIDE HORIZONTAL OFFSET ON LEVEL 2 FOR KITCHEN SINK.
5 FLOOR CLEANOUT WITHIN RAMP TO BE LEVEL WITH FINISH FLOOR.
6 1-1/2" V UP

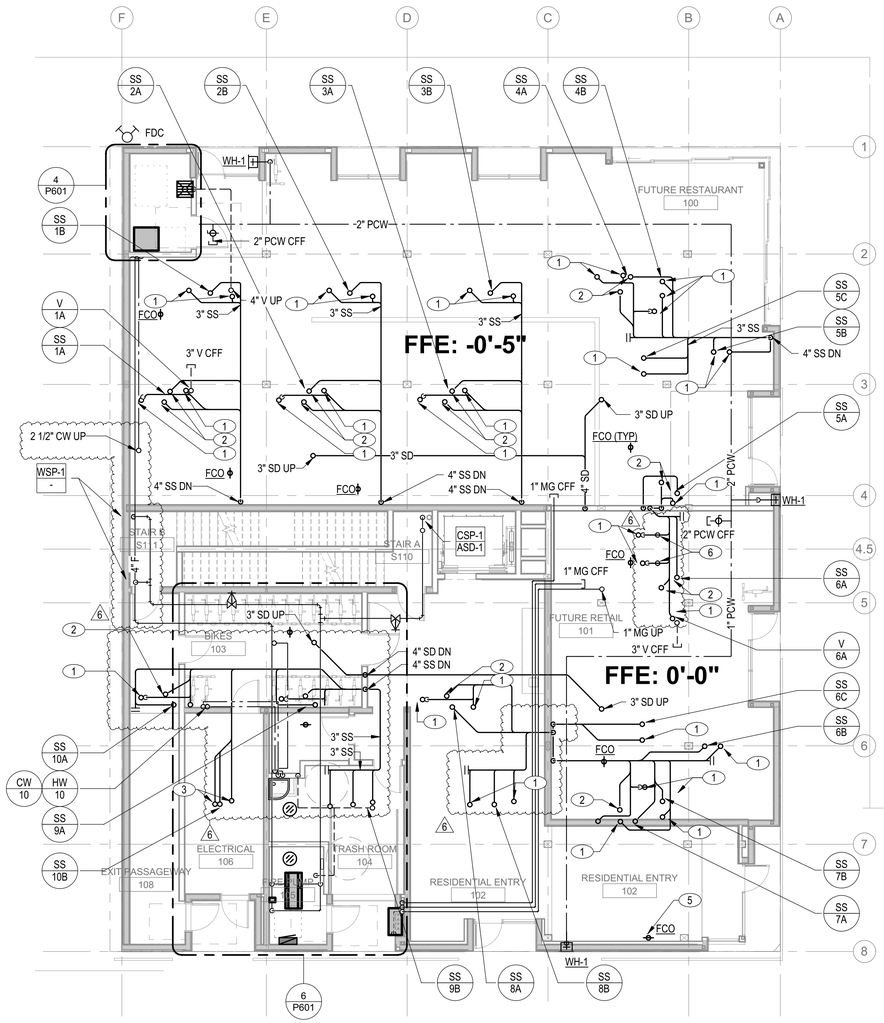
SHEET NOTES

A. REFER TO RISER DIAGRAM FOR PIPE SIZES NOT SHOWN.
B. SLOPE HORIZONTAL STORM PIPING 1/4" PER FOOT UNLESS OTHERWISE NOTED.



2 LEVEL 2 - FLOOR PLAN - PLUMBING

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



1 GROUND - FLOOR PLAN - PLUMBING

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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GROUND LEVEL & 2ND FLOOR PLANS - PLUMBING

Sheet Name

P201

Sheet

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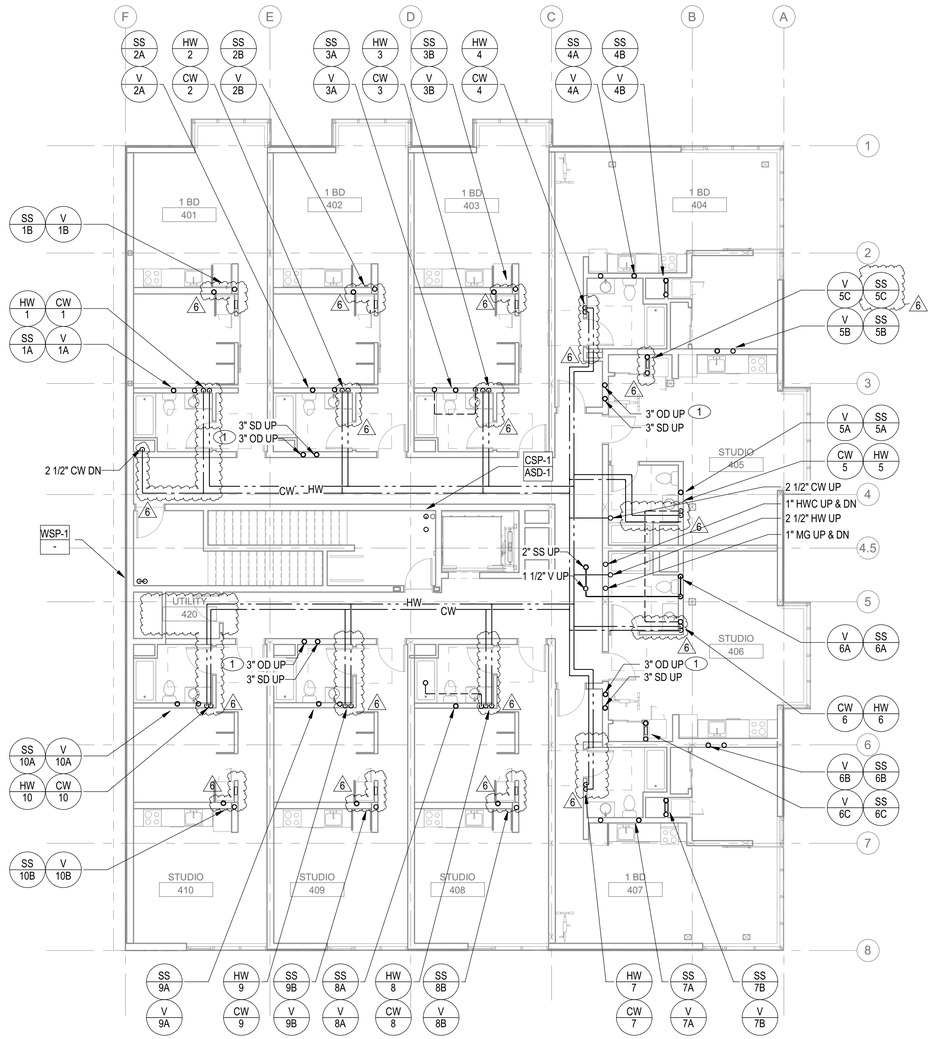
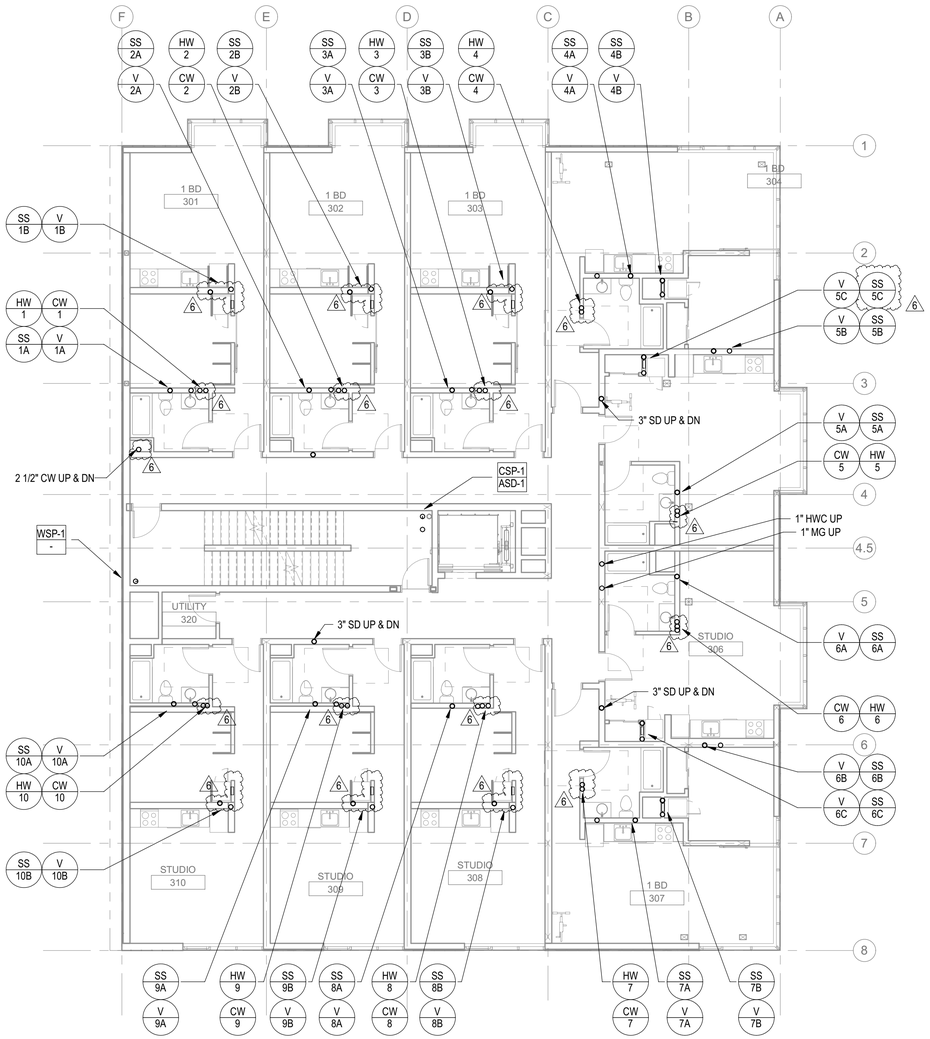


2 LEVEL 4 - FLOOR PLAN - PLUMBING

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



1 LEVEL 3 - FLOOR PLAN - PLUMBING

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

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3RD & 4TH FLOOR PLANS - PLUMBING

Sheet Name

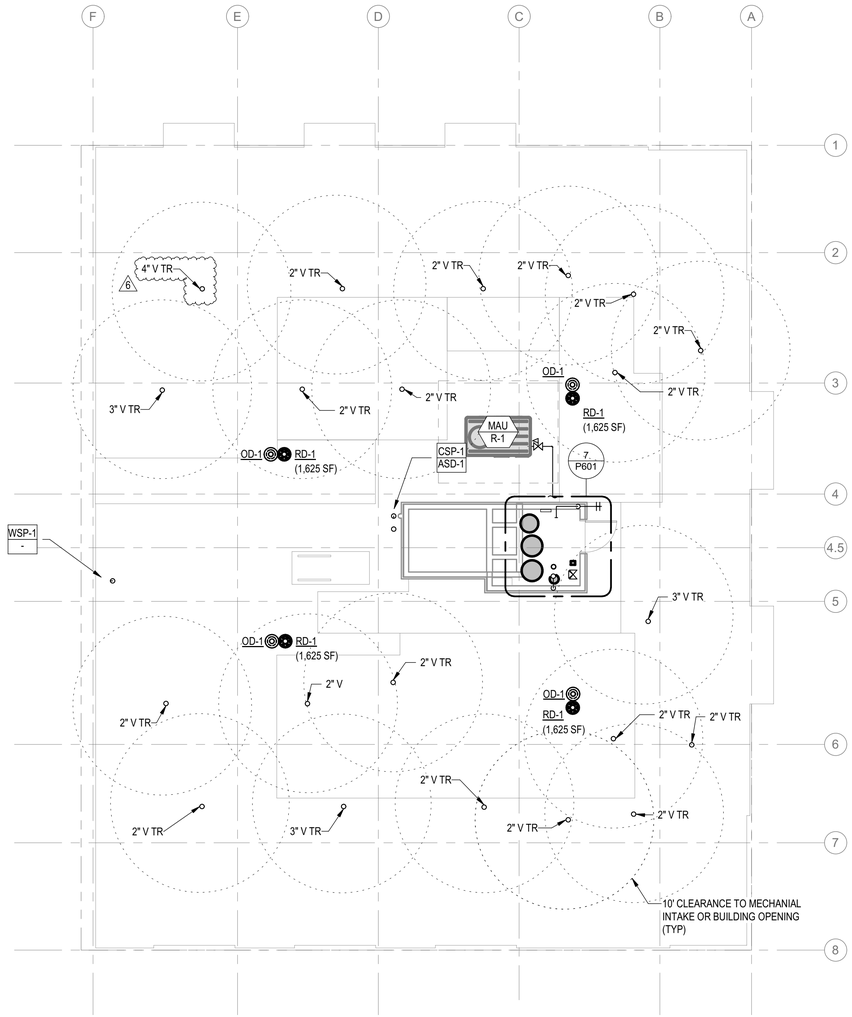
P202

Sheet

SUBMITTED 2/26/21

KEYED NOTES (#)

1 COMBINE SD AND OD IN VERTICAL



1 ROOF LEVEL - FLOOR PLAN - PLUMBING

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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ROOF PLANS - PLUMBING

Sheet Name

P203

Sheet

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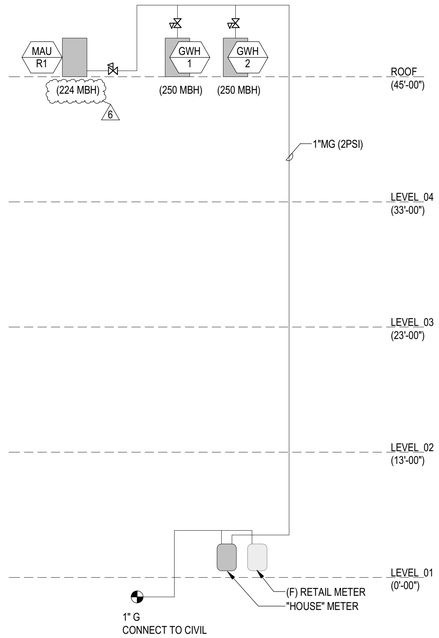
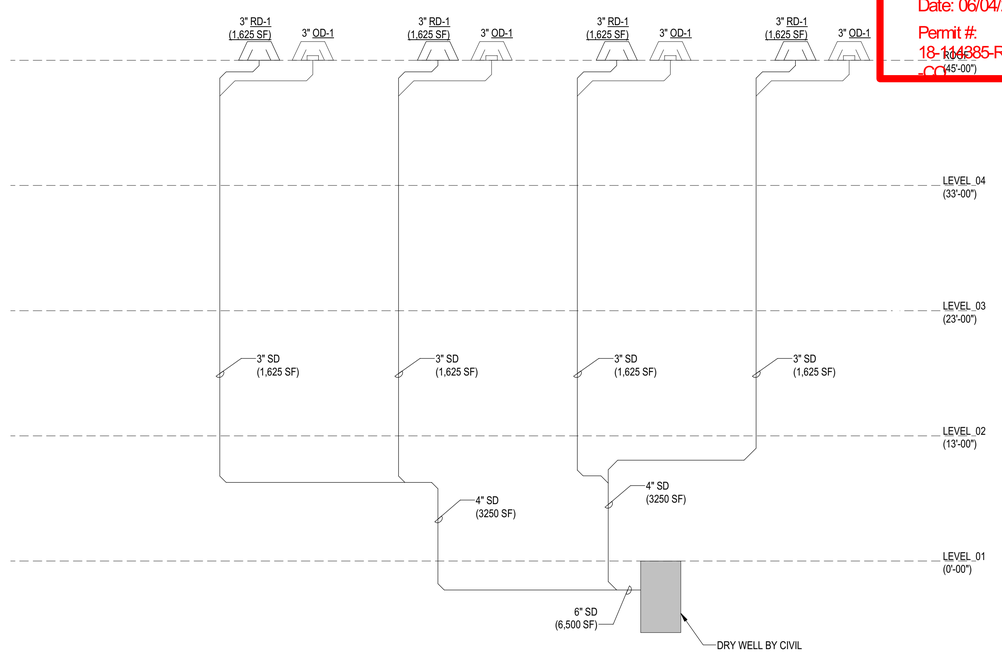


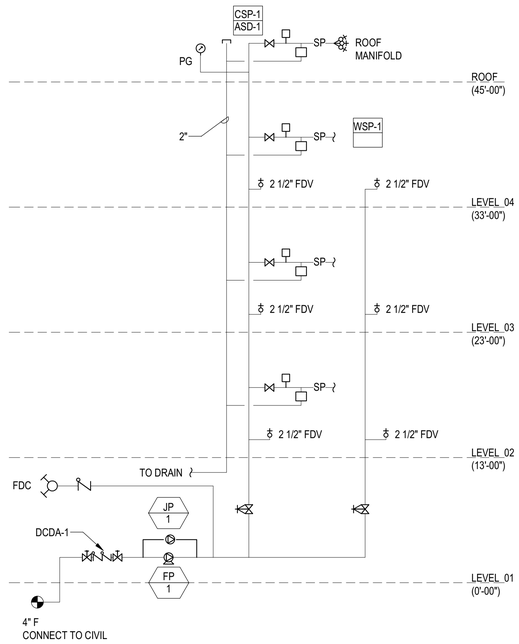
4 GAS RISER DIAGRAM

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



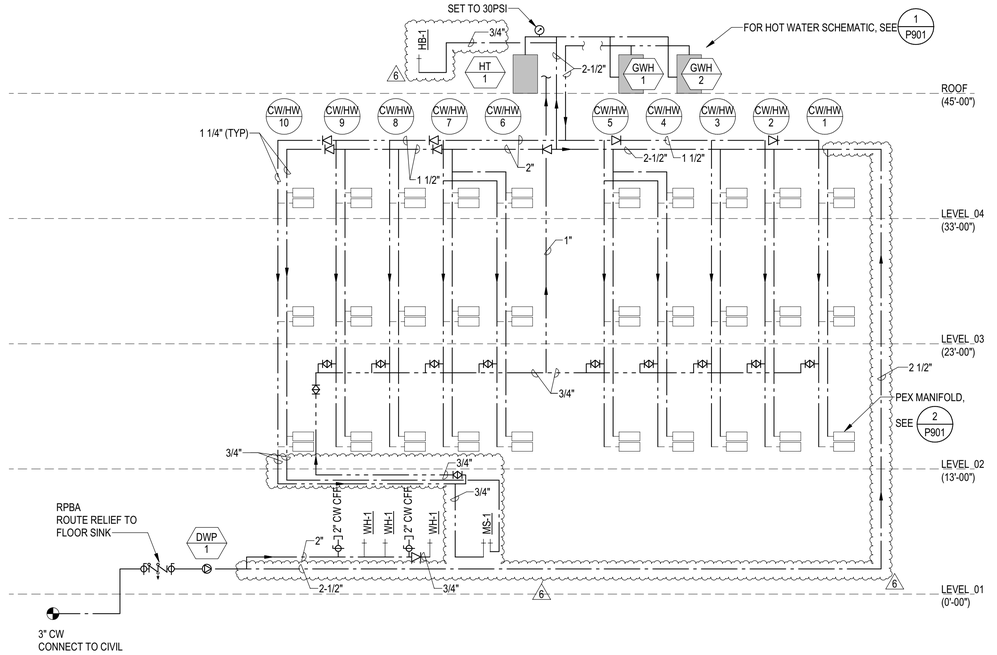
2 STORM RISER DIAGRAM

SCALE: NONE



3 FIRE RISER DIAGRAM

SCALE: NONE



1 WATER RISER DIAGRAM

SCALE: NONE

City Of Portland

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RISER DIAGRAMS

Sheet Name

P401

Sheet

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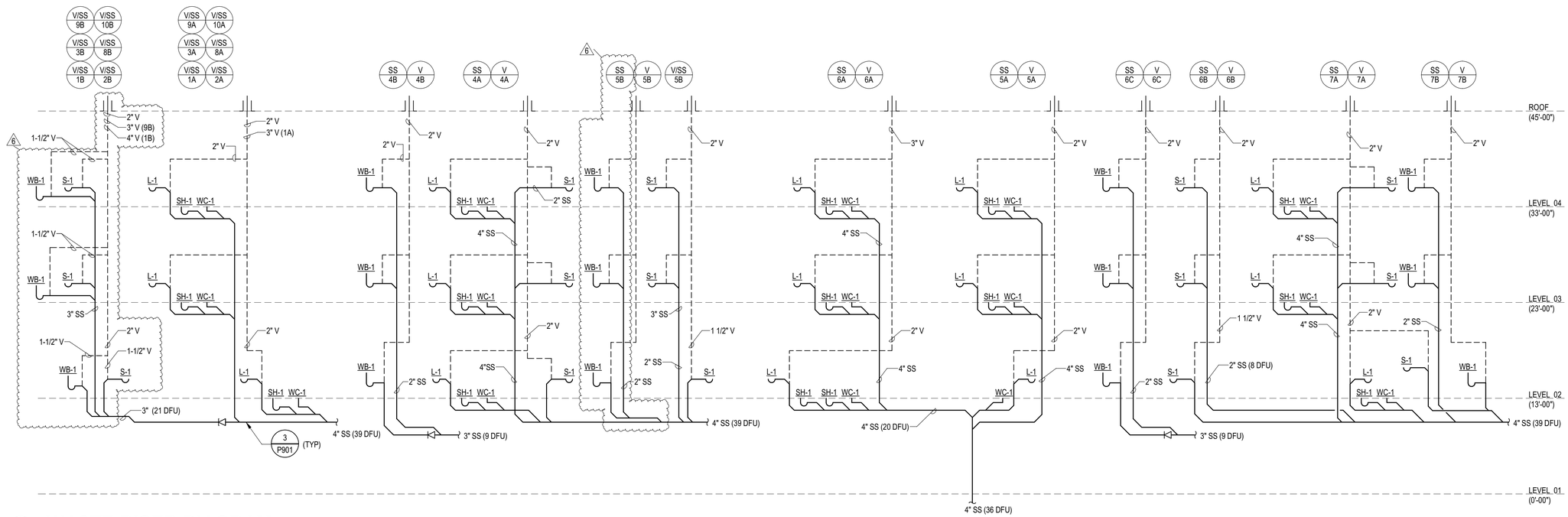

1 WASTE RISER DIAGRAM

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

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WASTE RISER DIAGRAM

Sheet Name

P402

Sheet

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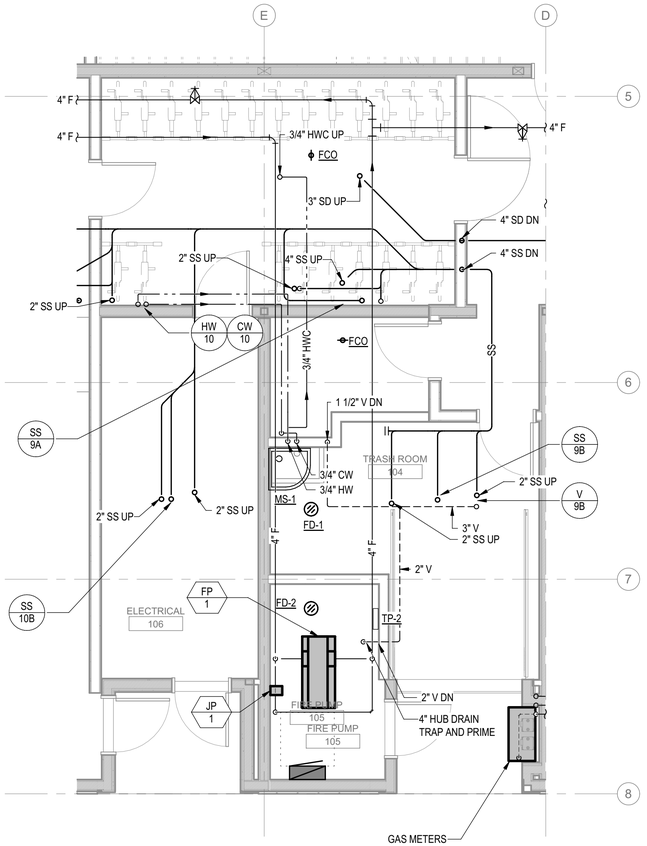
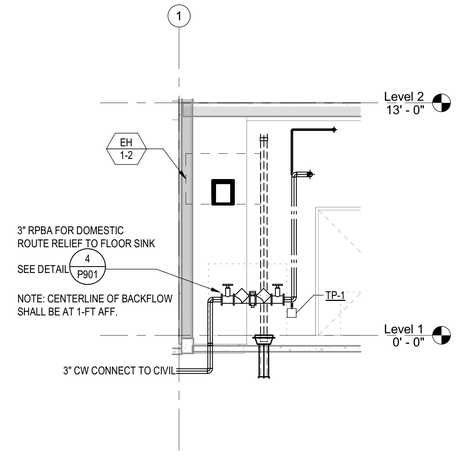


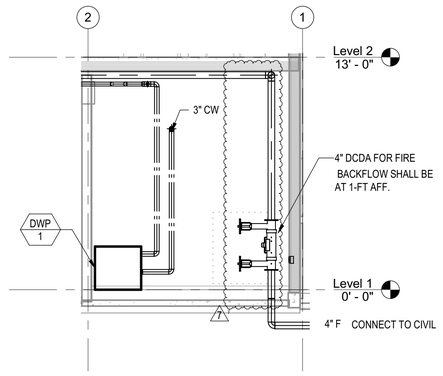
6 ENLARGED FIRE PUMP ROOM PLUMBING

SCALE: 1/4" = 1'-0"



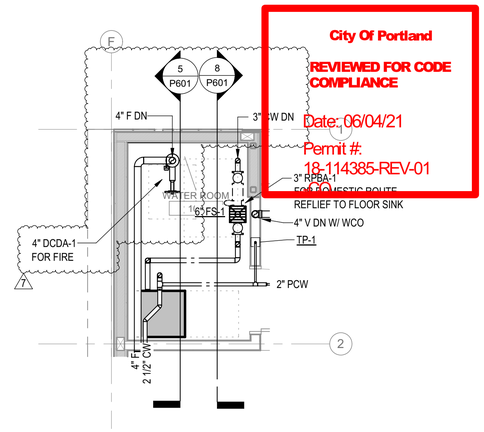
8 WATER ENTRY ROOM ELEVATION

SCALE: 1/4" = 1'-0"



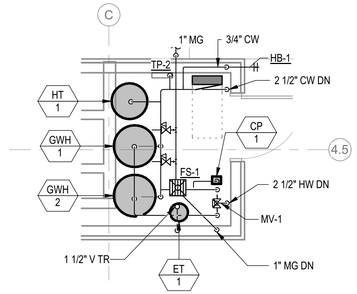
5 WATER ENTRY ROOM ELEVATION

SCALE: 1/4" = 1'-0"



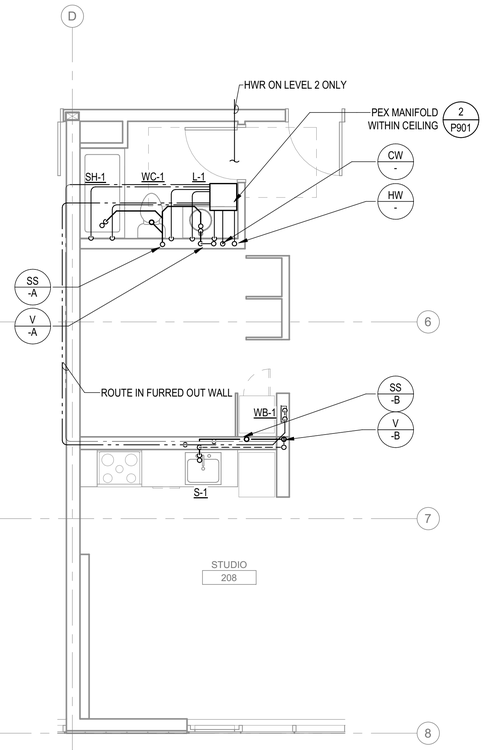
4 ENLARGED WATER ENTRY PLUMBING

SCALE: 1/4" = 1'-0"



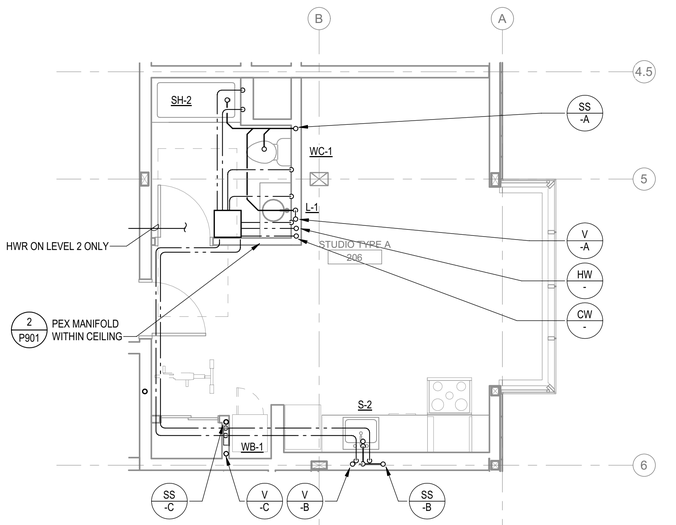
7 ENLARGED WATER HEATING ROOM - PLUMBING

SCALE: 1/4" = 1'-0"



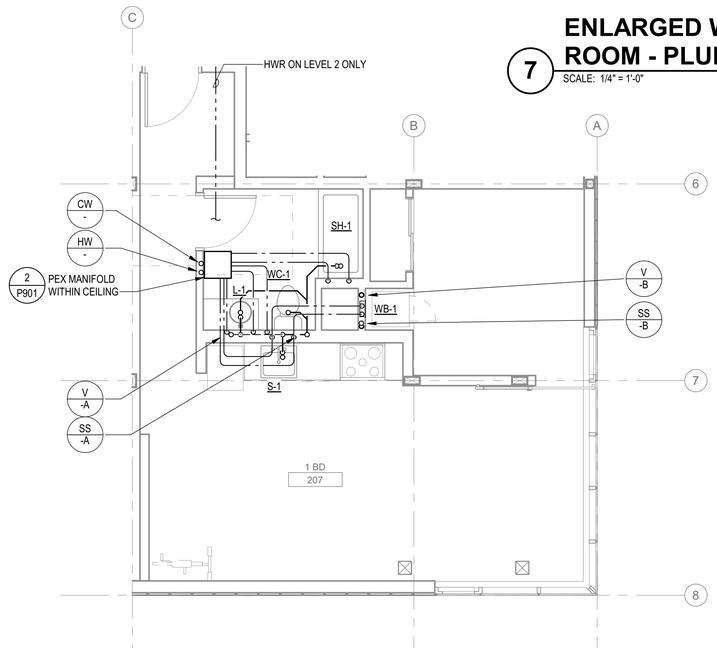
1 ENLARGED TYPICAL STUDIO A - PLUMBING

SCALE: 1/4" = 1'-0"



3 ENLARGED TYPICAL STUDIO B- PLUMBING

SCALE: 1/4" = 1'-0"



2 ENLARGED TYPICAL 1BDRM - PLUMBING

SCALE: 1/4" = 1'-0"

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PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	ADDENDUM 2	2018-03-30
2	ADDENDUM 3	2018-06-08
5	ASI 02	2020-12-31
6	ASI 03	2021-02-02
7	ASI 03 REV 1	2021-02-19

ENLARGED PLANS AND ELEVATIONS

Sheet Name

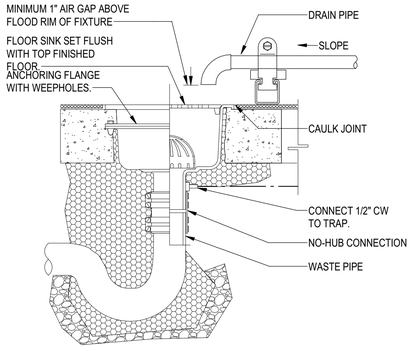
P601

Sheet

SUBMITTED 2/26/21

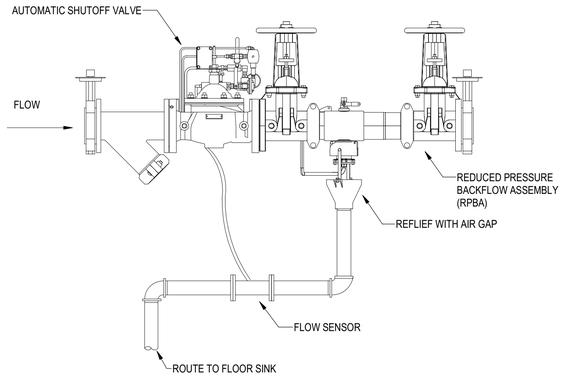
1/4" = 1'-0"

0 4 8 12 16

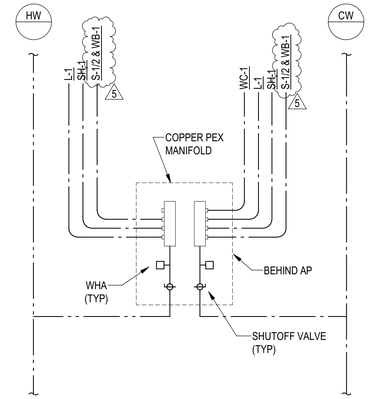


NOTES:
1. REFER TO PLANS FOR SIZES ND CONTINUATION.

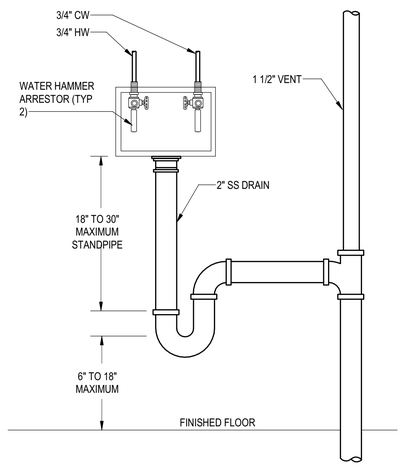
6 FLOOR SINK
SCALE: NONE



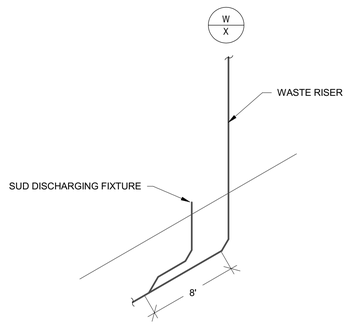
4 RPBA WITH AUTO SHUTOFF
SCALE: NONE



2 PEX MANIFOLD
SCALE: NONE

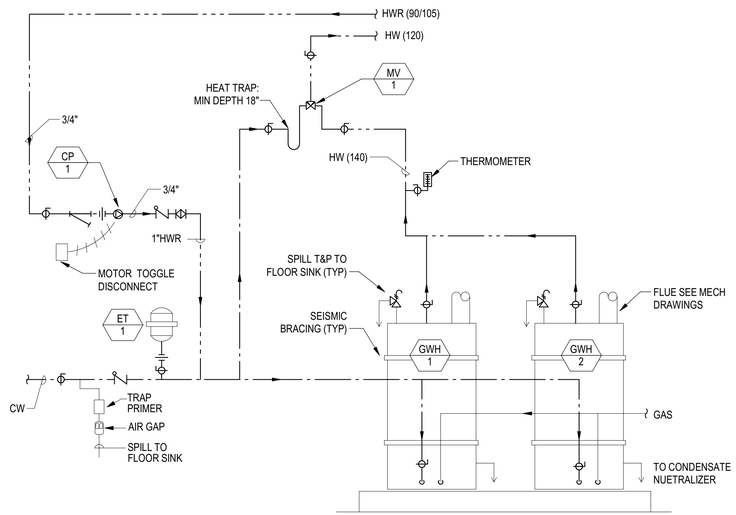


5 WASHING MACHINE CONNECTIONS
SCALE: NONE



NOTES:
1. PROVIDE ON ALL SUDSING FIXTURES

3 SUDSING DRAIN CONNECTION
SCALE: NONE



1 WATER HEATERS
SCALE: NONE

City Of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 06/04/21

Permit #: 18-114385-REV-01 -CO

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PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	ADDENDUM 2	2018-03-30
5	ASI 02	2020-12-31

PLUMBING DETAILS

Sheet Name

P901

Sheet

SUBMITTED 2/26/21

ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

DISTRIBUTION & EQUIPMENT

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CLEARANCES SHOWN
	CONNECTION TO MOTOR PROVIDED BY OTHERS
VFD	CONNECTION TO VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
F	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
C	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT PROVIDED BY OTHERS. SHADED = ON ALTERNATE POWER SOURCE NOTED
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
DM	DAMPER MOTOR
	BUSWAY RISER
C F	BUSWAY STAB-IN TYPE CIRCUIT BREAKER OR FUSE DISCONNECT. SIZE AS NOTED.

SWITCHING CONTROLS

SYMBOL	DESCRIPTION
S^a	SINGLE POLE SWITCH (SUPERSCRIPT DENOTES SIMILARLY MARKED LUMINAIRES CONTROLLED TOGETHER)
S_2	TWO POLE SWITCH
S_3	THREE WAY SWITCH
S_4	FOUR WAY SWITCH
S_K	KEY OPERATED SWITCH
D	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD.
D	DIMMER SWITCH UNDER SEPARATE COVERPLATE
S_P	SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON").
S_{PL}	SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF").
S_{TS}	TIMER SWITCH
S^{LA}	LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES.
S_{WP}	WEATHERPROOF SWITCH
S_V	LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES.
S_T	MOTOR-RATED THERMAL OVERLOAD SWITCH
S_{OR1}	LIGHTING CONTROL OVERIDE SWITCH. NUMBER = ZONE CONTROLLED
PC	PHOTOCELL
	EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECRTICAL, UON.
TC	PUSHBUTTON OR PUSHBUTTONS.
OS	TIME CLOCK
OS	OCCUPANCY SENSOR - WALL MOUNTED
OS	360 DEGREE OCCUPANCY SENSOR - CEILING MTD.
OS	180 DEGREE OCCUPANCY SENSOR - CEILING MTD.
OS	CORRIDOR/AISLE OCCUPANCY SENSOR - CEILING MOUNTED
a OS b	COMBINATION OCCUPANCY SENSOR & SWITCH GANGED UNDER A COMMON COVER PLATE. OCCUPANY SENSOR TO CONTROL ALL LUMINAIRES IN ROOM WITH 1/2 LIGHT REDUCTION CONTROLLED BY SWITCH.
T T	THERMOSTAT - WALL, CEILING.
S_{EPO}	EMERGENCY POWER OFF, HEAVY-DUTY, OIL-TIGHT RED MUSHROOM-HEAD PUSHBUTTON WITH GUARD.
	LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE CONTROL POWER AS REQUIRED OR AS INDICATED.

POWER DEVICES

SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.
	SPECIAL PURPOSE RECEPTACLE -WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED
AB	RECEPTACLE TYPE SHOWN -WALL -ABOVE COUNTER BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.
"ON ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED
	DUPLEX RECEPTACLE - WALL - HALF SWITCHED
C C	CONTROLLED DUPLEX / DOUBLE DUPLEX RECEPTACLE
S	COMBINATION SWITCH/DUPLEX RECEPTACLE
GFI	DUPLEX RECEPTACLE - WALL - WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
WP	RECEPTACLE TYPE SHOWN W/ WEATHERPROOF COVER AND INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
+42"	RECEPTACLE TYPE SHOWN AT SPECIAL HEIGHT
	WALL MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 IG) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.
	CLOCK HANGER RECEPTACLE
	FLUSH FLOOR BOX DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	POKE THRU UNIT WITH DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
	POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
	COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND TELEPHONE OUTLET - FLUSH, PEDESTAL MOUNTED.
	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR - SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.
	POKE THRU UNIT WITH JUNCTION BOX. RACEWAY COMPONENTS RC-700 SERIES.
	TELE/POWER POLE, POWER POLE
	TELE/POWER POLE WITH WHIP CONNECTION TO ELECTRIFIED FURNITURE
TX	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, BACK LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED. TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS REQUIRED. REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER. CONCEAL FROM VIEW.

REFERENCE SYMBOLS

SYMBOL	DESCRIPTION
XX	KEYED NOTE REFERENCE
125.4	BRANCH CIRCUIT OR FEEDER TAG; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULE FOR WIRE AND CONDUIT SIZES & QUANTITY.
1 E4.1	REFER TO DETAIL ON DRAWING INDICATED
2 E4.1	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED
A M-1	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED
K112	KITCHEN EQUIPMENT TAG, REFER TO KITCHEN EQUIPMENT SCHEDULE
CH 1 EQUIP NAME	MECHANICAL EQUIPMENT IDENTIFICATION TAG
	EQUIPMENT BY OTHERS IDENTIFICATION TAG

WIRING

SYMBOL	DESCRIPTION
	NEW WORK
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW.
(E)	EXISTING WORK TO REMAIN
(D)	EXISTING WORK TO BE REMOVED
(F)	FUTURE WORK
T	TELEPHONE SYSTEM CONDUIT
MV	MEDIUM VOLTAGE CONDUIT
G	BARE GROUNDING GRID OR CONDUCTORS, UON.
GC	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
	GROUND
	HOT
	NEUTRAL
L1A-1,3	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
HD1A	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
	BASKET TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
	LADDER TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
PB	PULL BOX, MIN. SIZE PER NEC., UON.
P	UNDERFLOOR RACEWAY
	FLEXIBLE CONDUIT CONNECTION
	POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN

LIGHTING

SYMBOL	DESCRIPTION
	RECESSED 2X4 LUMINAIRE
	SURFACE MOUNTED 2X4 LUMINAIRE
	RECESSED 1X4 LUMINAIRE
	SURFACE MOUNTED 1X4 LUMINAIRE
	RECESSED 2X2 LUMINAIRE
	SURFACE MOUNTED 2X2 LUMINAIRE
	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
	SUSPENDED LINEAR LUMINAIRE (SIZE VARIES)
	WALL MOUNTED LINEAR LUMINAIRE (SIZE VARIES)
	SUSPENDED PENDANT LUMINAIRE (SIZE VARIES)
	RECESSED DOWNLIGHT, CEILING MOUNTED
	SURFACE DOWNLIGHT, CEILING MOUNTED
WW DIRECTION	RECESSED WALLWASH
WW DIRECTION	SURFACE WALLWASH
	RECESSED LINEAR WALLWASH
	SURFACE LINEAR WALLWASH
	RECESSED WALL MOUNTED LUMINAIRE
	TRACK LIGHTING WITH HEADS AS INDICATED.
	RECESSED CEILING ADJUSTABLE POINT SOURCE
	SURFACE CEILING ADJUSTABLE POINT SOURCE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED DIRECTIONAL (SIZE VARIES)
	FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION. LENGTH AS SHOWN.
	WALL MOUNTED FLUORESCENT STRIPLIGHT
	UNDERCABINET FLUORESCENT STRIPLIGHT
	CONTINUOUS LINEAR SOURCE (LED, COLD CATHODE, NEON, FIBER OPTIC, ETC...)
	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.
	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
	BOLLARD
	POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD
	INDICATES ROTATED OPTICS
	POST TOP MOUNTED LUMINAIRE
	IN-GRADE POINT SOURCE
	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS
HA 3c	LUMINAIRE MARKING CONVENTION LEGEND: HA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE LETTER) THAT SERVES THE LUMINIARE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE
HA 3A	

ELECTRICAL EQUIPMENT NAMING CONVENTION LEGEND

EXAMPLES/LEGEND

MCC-		1	A	
DP-	H	1	A	
XFR-		1	A	
SWBD-	M	1	A	
PNL-	T	2	B	
EQUIP. TYPE	POWER SYSTEM DESIG.	FLOOR	SEQ. LETTERS	

EQUIPMENT TYPE

SUB - UNIT SUBSTATION
SWBD - SWITCHBOARD
SWGR - SWITCHGEAR
DP - DISTRIBUTION PANEL
PNL - BRANCH PANEL
ATS - AUTOMATIC TRANSFER SWITCH
BIATS - BYPASS ISOLATION ATS
MTS - MANUAL TRANSFER SWITCH
XFR - TRANSFORMER
UTX - UTILITY MAIN TRANSFORMER
MCC - MOTOR CONTROL CENTER
CB - ENCLOSED CIRCUIT BREAKER
FSW - FUSED DISCONNECT SWITCH
DSW - NON-FUSED DISCONNECT SW.

POWER SYSTEMS

BLANK - RESIDENTIAL LOADS
M - MAIN UTILITY SERVICE
H - HOUSE
T - TENANT

FLOOR

B - BASEMENT/PIT
1 - FIRST FLOOR
M - MEZZANINE
R - ROOF

ABBREVIATIONS

(E)	EXISTING TO REMAIN	IMC	INTERMEDIATE METAL CONDUIT
(F)	FUTURE	KCMIL	THOUSAND CIRCULAR MILS
(R)	EXISTING TO BE REMOVED	KN	KEYED NOTE
(RL)	EXISTING TO BE RELOCATED	KO	KNOCK OUT
AB	ABOVE COUNTER BACKSPLASH	KW	KILOWATTS
ACU	AIR CONDITIONING UNIT	KVA	KILOVOLT-AMPERES
AC	ALTERNATING CURRENT	LTG	LIGHTING
A, AMP	AMPERES	LCP	LIGHTING CONTROL PANEL
ADJ	ADJACENT	MAX	MAXIMUM
AF	AMPERE (RATED) FUSE OR CB FRAME	MCA	MINIMUM CIRCUIT AMPERES
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MFR	MANUFACTURER
AHJ	AUTHORITY HAVING JURISDICTION	MIN	MINIMUM
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)	MISC	MISCELLANEOUS
		MLO	MAIN LUGS ONLY
AL	ALUMINUM (ALLOY)	MO	MANUAL OPERATOR
ALC	AUTOMATIC LIGHTING CONTROL	MTD	MOUNTED
AS	AMPERE (RATED) SWITCH	MTR	MOTOR
AT	CIRCUIT BRKR TRIP SETTING (AMPS)	N	NEUTRAL (GROUNDED CONDUCTOR)
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AUTO	AUTOMATIC	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	-,NEG	NEGATIVE
AWG	AMERICAN WIRE GAUGE	NEMA	NATIONAL ELECTRICAL MFGR'S ASSOC.
BATT	BATTERY	NL	NIGHT LIGHT (UNSWITCHED)
BC	BARE COPPER	NO	NORMALLY OPEN
BG	BELOW GRADE	NTS	NOT TO SCALE
BRKR	CIRCUIT BREAKER	NP	NAMEPLATE
C	CONDUIT (CIRCULAR RACEWAY)	OC	ON CENTER
CAB	CABINET	OD	OUTSIDE DIAMETER
CB	CIRCUIT BREAKER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CFM	CUBIC FEET PER MINUTE		
CKT	CIRCUIT	OFOI	OWNER FURNISHED, OWNER INSTALLED
CLG	CEILING	OS	OCCUPANCY SENSOR
CO	CONDUIT ONLY	P	POLE
CPT	CONTROL POWER TRANSFORMER	PB	PUSHBUTTON
CT	CURRENT TRANSFORMER	PH, Ø	PHASE
CU	COPPER	PNL	PANEL
DC	DIRECT CURRENT	+,POS	POSITIVE
DISC	DISCONNECT	PRI	PRIMARY
DIA	DIAMETER	REQD	REQUIRED
DIV	DIVISION	RNC	RIGID NON-METALLIC CONDUIT (PVC)
DP	DISTRIBUTION PANEL	RS	RAPID START
DPDT	DOUBLE POLE DOUBLE THROW	RST	REMOTE STATION TRANSMITTER
DPST	DOUBLE POLE SINGLE THROW	SAD	SEE ARCHITECTURAL DRAWINGS
DWG	DRAWING	SEC	SECONDARY
E,EMERG	EMERGENCY	SN	SHEET NOTE
EF	EXHAUST FAN	SOL	SOLENOID
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTION DEVICE
ENCL	ENCLOSURE	SPDT	SINGLE POLE DOUBLE THROW
EO	ELECTRICALLY OPERATED	SPST	SINGLE POLE SINGLE THROW
EOL	END OF LINE	SUB	SUBSTATION
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
EWH	ELECTRIC WATER HEATER	SWGR	SWITCHGEAR
FA	FIRE ALARM	TB	TERMINAL BOARD
FAA	FIRE ALARM ANNUNCIATOR	TDC	TIME DELAY CLOSING
FACP	FIRE ALARM CONTROL PANEL	TDO	TIME DELAY OPENING
FBO	FURNISHED BY OTHERS	TEL	TELEPHONE
FC	FOOT CANDLES	TYP	TYPICAL
FF	FLUSH FLOOR MOUNTED	UF	UNDERFLOOR
FLA	FULL LOAD AMPERES	UG	UNDERGROUND
FLEX	FLEXIBLE	UL	UNDERWRITERS LAB
FPB	FAN POWERED BOX	UON	UNLESS OTHERWISE NOTED
FSD	FIRE/SMOKE DAMPER	UPS	UNINTERRUPTIBLE POWER SUPPLY
FW	FLUSH WALL MOUNTED	UTX	UTILITY TRANSFORMER
FU	FUSE	V	VOLTS
GEN	GENERATOR	VA	VOLT-AMPERES
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
G, GND	GROUND	W	WATT
GRAP	GENERATOR REMOTE ANNUNCIATOR	W/	WITH
GRC	PANEL	W/O	WITHOUT
HLO	GALVANIZED RIGID STEEL CONDUIT	WP	WEATHERPROOF
HP	HANDLE LOCK-ON(OFF)	XFR	TRANSFORMER
HPF	HORSEPOWER	XP	EXPLOSION PROOF
HTR	HIGH POWER FACTOR	Z	ZONE
HZ	HEATER	" IN	INCHES
IES	HERTZ (CYCLES PER SECOND)	', FT	FEET
IBC	ILLUMINATING ENGINEERING SOCIETY	Ø	PHASE
ID	INDIVIDUAL BRANCH CIRCUIT	>	GREATER THAN
IG	INSIDE DIAMETER	<	LESS THAN
	ISOLATED GROUND	≥	GREATER THAN OR EQUAL TO

ELECTRICAL DRAWING LIST

SHEET NUMBER	SHEET NAME	Permit Set	ASI 03
E000	ELECTRICAL LEGEND AND ABBREVIATIONS	X	X
E001	SCHEDULES	X	X
E002	MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE	X	X
E200	GROUND LEVEL & 2ND FLOOR PLANS - POWER AND SIGNAL	X	X
E201	3RD & 4TH FLOOR PLANS - POWER AND SIGNAL	X	X
E202	ROOF PLANS - POWER AND SIGNAL	X	X
E501	ELECTRICAL SINGLE LINE DIAGRAM	X	X
E502	PANELBOARD SCHEDULES	X	X
E601	ENLARGED UNIT PLANS	X	X
E602	UNIT PANELBOARD SCHEDULES	X	X
E603	ENLARGED PLANS	X	6
E901	ELECTRICAL DETAILS	X	X
E902	ELECTRICAL DETAILS	X	X
E903	ELECTRICAL DETAILS	X	X
E904	ELECTRICAL DETAILS	X	X
E905	ELECTRICAL DETAILS	X	X

JONES
JONES ARCHITECTURE
120 NW 9th Ave. Ste. 210
Portland, OR 97209
T 503 477 9165
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CENTRAL LOFTS

7373 N PHILADELPHIA AVE
PORTLAND, OR 97203

EXPIRES: 12/31/22
REGISTERED PROFESSIONAL ENGINEER
95270PE
DocuSigned by: Mimi Petersen
OREGON
NOVEMBER 10, 2015
MIMI A. PETERSEN

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PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

6	ASI 03	2021-02-02

ELECTRICAL LEGEND AND ABBREVIATIONS

Sheet Name

E000

Sheet

SUBMITTED 2/26/21

ELECTRICAL SERVICE RESPONSIBILITY

	ELEC. CONTR.	UTILITY CO.
SECONDARY CONDUIT	X	
SECONDARY CONDUCTORS		X
TRANSFORMER (UTX)		X
UTX CONNECTIONS		X
ELECTRIC RM DOOR LOCK	X	
BOX (OBTAIN FROM POWER COMPANY)		
PRIMARY GROUNDING		X
CT ENCLOSURE	X	
CT's		X
METER BASE	X	
METER		X
METER GROUNDING	X	

UTILITY CONTACTS

NOTES:

1. CONTACT AND COORDINATE ALL REQUIREMENTS AND RESPONSIBILITIES WITH SERVING UTILITY COMPANIES PRIOR TO SUBMITTING BIDS.
2. ALL SERVICE INSTALLATION WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITY.
3. GLUMAC HAS CONTACTED THE UTILITIES BUT HAS NOT RECEIVED IN WRITING THE FINAL REQUIREMENTS FROM THE POWER UTILITY, TELEPHONE UTILITY OR THE CATV UTILITY. THESE DRAWINGS INDICATE OUR BEST ESTIMATION OF THEIR REQUIREMENTS. PRIOR TO ANY CONSTRUCTION CONTACT THE UTILITIES AND OBTAIN IN WRITING THEIR REQUIREMENTS.

POWER UTILITY CONTACT:

Andrew Rollstin
PORTLAND GENERAL ELECTRIC
3700 S.E. 17TH AVE.
PORTLAND, OREGON 97202
PHONE: 503-736-5418
EMAIL: andrew.rollstin@pgn.com

6

BRANCH CIRCUIT SCHEDULE

CIRCUIT TAG	CONDUITS MET	CONDUITS SETS	CONDUITS RNC	CONDUCTORS PER SET PHASE/NEUTRAL	CONDUCTORS PER SET GROUND	WIRING CONFIG.	NOTES
60.2N	0.75"	1	1.00"	(2) #6, (1) #6N	#10	1,2W,N	_
60.2	0.75"	1	1.00"	(2) #6	#10	1Ø,2W	_
60.1	0.75"	1	1.00"	(1) #6, (1) #6N	#10	1Ø,1W,N	_
50.2N	0.75"	1	1.00"	(2) #6, (1) #6N	#10	1Ø,2W,N	_
50.2	0.75"	1	1.00"	(2) #6	#10	1Ø,2W	_
50.1	0.75"	1	1.00"	(1) #6, (1) #6N	#10	1Ø,1W,N	_
40.2N	0.75"	1	1.00"	(2) #8, (1) #8N	#10	1Ø,2W,N	_
40.2	0.75"	1	1.00"	(2) #8	#10	1Ø,2W	_
40.1	0.75"	1	1.00"	(1) #8, (1) #8N	#10	1Ø,1W,N	_
30.2N	0.75"	1	1.00"	(2) #10, (1) #10N	#10	1Ø,2W,N	_
30.2	0.75"	1	1.00"	(2) #10	#10	1Ø,2W	_
30.1	0.75"	1	1.00"	(1) #10, (1) #10N	#10	1Ø,1W,N	_
20.2N	0.50"	1	1.00"	(2) #12, (1) #12N	#12	1Ø,2W,N	7,8
20.2	0.50"	1	1.00"	(2) #12	#12	1Ø,2W	7,8
20.1	0.50"	1	1.00"	(1) #12, (1) #12N	#12	1Ø,1W,N	7,8

NOTES:

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
2. THIS SCHEDULE SHALL BE USED ON ALL BRANCH CIRCUITS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. USE THE "MOTOR CIRCUIT SCHEDULE" FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC., WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER.
3. PROVIDE GROUND WIRE NOTED ABOVE IN ALL BRANCH CIRCUITS.
4. NOT ALL BRANCH CIRCUITS SHOWN ABOVE ARE NECESSARILY USED ON THIS PROJECT.
5. "MET"= EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.
6. THIS SCHEDULE APPLIES TO STANDARD LENGTH CIRCUITS ONLY. CONTRACTOR TO UPSIZE WIRING AS REQUIRED TO MEET MINIMUM VOLTAGE DROP REQUIREMENTS INDICATED IN SPECIFICATIONS. GROUND CONDUCTOR WILL ALSO NEED TO BE INCREASED PROPORTIONATELY AS REQUIRED BY NEC.
7. THESE BRANCH CIRCUITS TAGS ARE TYPICALLY NOT SHOWN ON PLANS FOR CLARITY REASONS. CONTRACTOR SHALL USE THIS INFORMATION AS IT APPLIES FOR ALL CONDUITS CONTAINING ONE OR MORE 20A/1P CIRCUITS.
8. CONTRACTOR MAY COMBINE 20A 1 AND 2-POLE CIRCUITS, UP TO A MAXIMUM OF (3) PHASE CONDUCTORS, IN ONE CONDUIT. ALL 3-PHASE AND CIRCUITS LARGER THAN 20A SHALL BE IN DEDICATED CONDUITS, UON. PROVIDE DEDICATED NEUTRALS FOR EACH 1-POLE CIRCUIT.
9. ALL HOMERUNS SHALL USE 0.75" CONDUIT SIZE MINIMUM.

3-PHASE MOTOR DISCONNECT SWITCH SCHEDULE

MOTOR HP.	480V MOTOR DISCONNECT SWITCH RATING	208V MOTOR DISCONNECT SWITCH RATING	NOTES
1/2	30	30	
3/4	30	30	
1	30	30	
1-1/2	30	30	
2	30	30	
3	30	30	
5	30	30	
7-1/2	30	60	
10	30	60	
15	30	100	
20	60	100	
25	60	100	
30	60	200	
40	100	200	
50	100	200	
60	100	400	
75	200	400	
100	200	400	
125	200	600	
150	400	600	
200	400	NA	

NOTES:

1. THIS SCHEDULE APPLIES TO ALL, 600V AND LOWER, DISCONNECT SWITCHES THAT SERVE MOTORS ONLY. DISCONNECT SWITCHES THAT SERVE PACKAGE SYSTEMS SUCH AS A/C UNITS, HEAT PUMPS, ETC. SHALL BE HEAVY-DUTY FUSED TYPE AND SIZED PER MANUFACTURER'S RECOMMENDATIONS.
2. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE. NEMA 1 FOR INDOORS, NEMA 3R FOR OUTDOORS, UNLESS OTHERWISE NOTED.
3. USE THIS SCHEDULE IN CONCERT WITH MECHANICAL EQUIPMENT SCHEDULES, PANEL, AND MCC SCHEDULES TO DETERMINE CORRECT SIZE DISCONNECT SWITCHES TO PROVIDE. SIZES SHOWN ON DRAWINGS SUPERSEDES SIZES SHOWN ABOVE IF THEY ARE LARGER.
4. ON DISCONNECT SWITCHES ON THE LOAD SIDE OF VFD'S PROVIDE AUXILIARY SET OF CONTACTS AND CONTROL WIRING TO STOP VFD PRIOR TO OPENING POWER CONTACTS. REFER TO DETAIL.
5. FOR MOTORS THAT REQUIRE 6 LEADS, SUCH AS WHEN USING 2S2W AND DELTA-WYE TYPE STARTERS, PROVIDE 6-POLE MOTOR DISCONNECT SWITCHES.

MOTOR CIRCUIT SCHEDULE

FEEDER TAG	CONDUITS ① MET	CONDUITS SETS	CONDUITS RNC	CONDUCTORS PER SET PHASE	CONDUCTORS PER SET GROUND ②	REMARKS
1600.3M	3.00"	5	4.00"	(3) 400 KCMIL	400 KCMIL	-
1400.3M	3.00"	4	4.00"	(3) 500 KCMIL	400 KCMIL	-
1200.3M	2.50"	4	4.00"	(3) 350 KCMIL	350 KCMIL	-
1000.3M	2.50"	3	4.00"	(3) 400 KCMIL	250 KCMIL	-
800.3M	3.00"	2	4.00"	(3) 500 KCMIL	#4/0	-
700.3M	2.50"	2	4.00"	(3) 400 KCMIL	#4/0	-
600.3M	2.50"	2	3.50"	(3) 350 KCMIL	#2/0	-
500.3M	2.50"	2	3.00"	(3) 250 KCMIL	#2/0	-
450.3M	2.50"	2	3.00"	(3) #4/0	#1/0	-
400.3M	3.00"	1	4.00"	(3) 500 KCMIL	#1	-
350.3M	2.50"	1	4.00"	(3) 400 KCMIL	#1	-
300.3M	2.50"	1	3.00"	(3) 350 KCMIL	#2	-
275.3M	2.50"	1	3.00"	(3) 300 KCMIL	#2	-
250.3M	2.50"	1	3.00"	(3) 250 KCMIL	#2	-
225.3M	2.00"	1	3.00"	(3) #4/0	#3	-
200.3M	2.00"	1	2.00"	(3) #3/0	#3	-
175.3M	2.00"	1	2.00"	(3) #2/0	#4	-
150.3M	1.50"	1	2.00"	(3) #1/0	#4	-
125.3M	1.25"	1	1.50"	(3) #1	#4	-
110.3M	1.25"	1	1.50"	(3) #2	#6	-
100.3M	1.25"	1	1.50"	(3) #2	#6	-
90.3M	1.00"	1	1.25"	(3) #4	#6	-
80.3M	1.00"	1	1.25"	(3) #4	#6	-
70.3M	1.00"	1	1.25"	(3) #4	#6	-
60.3M	0.75"	1	1.00"	(3) #6	#8	-
50.3M	0.75"	1	1.00"	(3) #6	#8	-
40.3M	0.75"	1	1.00"	(3) #8	#8	-
30.3M	0.75"	1	1.00"	(3) #10	#10	-
20.3M	0.75"	1	1.00"	(3) #12	#12	-

GENERAL NOTES

A. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.

B. THIS MOTOR BRANCH CIRCUIT SCHEDULE SHALL BE USED FOR ALL CIRCUITS WHERE THE CIRCUIT BREAKER SIZE PROTECTING THE LOAD IS LARGER THAN THE AMPACITY OF THE CIRCUIT CONDUCTORS. EXAMPLES ARE: MOTORS, CHILLERS, ELEVATORS, FANS, PUMPS, ETC.

C. PROVIDE NOTED SIZE GROUND CONDUCTOR IN EACH CONDUIT OF CIRCUITS CONSISTING OF MULTIPLE SETS OF PARALLEL CONDUCTORS.

D. NOT ALL CIRCUITS ARE NECESSARILY USED ON THIS PROJECT.

E. NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75°C TERMINATIONS.

SCHEDULE REMARKS

① "MET"= EMT, GRC (RIGID), RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.

② PROVIDE GROUND WIRE NOTED IN ALL MOTOR BRANCH CIRCUITS.

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RESIDENTIAL EQUIPMENT ABBREVIATIONS & MOUNTING HEIGHTS

STD. DUPLEX ABOVE BACKSPLASH	**AB**	SEE ARCH. ELEVATIONS
DISHWASHER	**DW**	+20" AFF.
DISPOSAL	**DI**	+20" AFF
MICROWAVE ABOVE COUNTER	**MWA**	CENTERED ON OPENING
MICROWAVE ON COUNTER	**MW**	AB
MICROWAVE BELOW COUNTER	**MWB**	CENTERED ON OPENING
REFRIGERATOR	**RF**	+32" AFF
REFRIGERATOR BELOW COUNTER	**RFB**	CENTERED ON OPENING
TELEVISION LOW	**TV**	SAME AS STD. DUPLEX
TELEVISION HIGH	**TVH**	+46" AFF, UON.
RANGE	**RG**	+24" AFF
CLOTHES DRYER	**CD**	+30" AFF
CLOTHES WASHER	**CW**	+30" AFF
MDU PANEL POWER	**MP**	AS DIRECTED BY MFR
OVEN	**OV**	+24" AFF, UON.
COOKTOP	**CT**	+30" AFF, UON.

NOTES:

1. HEIGHTS SHOWN ARE TYPICAL TO TOP OF BOX, UNLESS OTHERWISE NOTED.
2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE NOTED ABOVE. CONTRACTOR SHALL ALWAYS REFER TO ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING J-BOXES AND BACKBOXES. INFORM ENGINEER AND ARCHITECT OF CONFLICTS.

COPPER FEEDER SCHEDULE

FEEDER TAG	CONDUITS MET	CONDUITS SETS	CONDUITS RNC	CONDUCTORS PER SET PHASE/NEUTRAL	CONDUCTORS PER SET GROUND	NOTES
4000.4	3.50"	11	4.00"	(4) 500 KCMIL	500 KCMIL	-
4000.3	3.00"	11	4.00"	(3) 500 KCMIL	500 KCMIL	-
3500.4	3.50"	10	4.00"	(4) 500 KCMIL	500 KCMIL	-
3500.3	3.00"	10	4.00"	(3) 500 KCMIL	500 KCMIL	-
3000.4	3.50"	8	4.00"	(4) 500 KCMIL	400 KCMIL	-
3000.3	3.00"	8	4.00"	(3) 500 KCMIL	400 KCMIL	-
2500.4	3.50"	7	4.00"	(4) 500 KCMIL	350 KCMIL	-
2500.3	3.00"	7	4.00"	(3) 500 KCMIL	350 KCMIL	-
2000.4	3.00"	6	4.00"	(4) 400 KCMIL	250 KCMIL	-
2000.3	3.00"	6	4.00"	(3) 400 KCMIL	250 KCMIL	-
1600.4	3.00"	5	4.00"	(4) 400 KCMIL	#4/0	-
1600.3	3.00"	5	4.00"	(3) 400 KCMIL	#4/0	-
1200.4	3.00"	4	4.00"	(4) 350 KCMIL	#3/0	-
1200.3	3.00"	4	3.00"	(3) 350 KCMIL	#3/0	-
1000.4	3.00"	3	4.00"	(4) 400 KCMIL	#2/0	-
1000.3	3.00"	3	4.00"	(3) 400 KCMIL	#2/0	-
800.4	3.00"	3	3.00"	(4) 300 KCMIL	#1/0	-
800.3	2.50"	3	3.00"	(3) 300 KCMIL	#1/0	-
700.4	3.50"	2	4.00"	(4) 500 KCMIL	#1/0	-
700.3	3.00"	2	4.00"	(3) 500 KCMIL	#1/0	-
600.4	3.00"	2	4.00"	(4) 350 KCMIL	#1	-
600.3	2.50"	2	3.00"	(3) 350 KCMIL	#1	-
500.4	2.50"	2	3.00"	(4) 250 KCMIL	#2	-
500.3	2.50"	2	2.50"	(3) 250 KCMIL	#2	-
450.4	2.50"	2	3.00"	(4) #4/0	#2	-
450.3	2.00"	2	2.50"	(3) #4/0	#2	-
400.4	2.00"	2	2.50"	(4) #3/0	#2	-
400.3	2.00"	2	2.50"	(3) 3/0	#2	-
350.4	3.50"	1	4.00"	(4) 500 KCMIL	#2	-
350.3	2.50"	1	4.00"	(3) 500 KCMIL	#2	-
300.4	3.00"	1	3.00"	(4) 350 KCMIL	#4	-
300.3	2.50"	1	3.00"	(3) 350 KCMIL	#4	-

FEEDER TAG	CONDUITS MET	CONDUITS SETS	CONDUITS RNC	CONDUCTORS PER SET PHASE/NEUTRAL	CONDUCTORS PER SET GROUND	NOTES
250.4	2.50"	1	3.00"	(4) 250 KCMIL	#4	-
250.3	2.50"	1	3.00"	(3) 250 KCMIL	#4	-
225.4	2.50"	1	3.00"	(4) #4/0	#4	-
225.3	2.00"	1	2.50"	(3) #4/0	#4	-
200.4	2.00"	1	2.50"	(4) #3/0	#6	-
200.3	2.00"	1	2.50"	(3) #3/0	#6	-
175.4	2.00"	1	2.50"	(4) #2/0	#6	-
175.3	1.50"	1	2.00"	(3) #2/0	#6	-
150.4	2.00"	1	2.00"	(4) #1/0	#6	-
150.3	1.50"	1	2.00"	(3) #1/0	#6	-
125.4	1.50"	1	1.50"	(4) #1	#6	-
125.3	1.25"	1	1.50"	(3) #1	#6	-
110.4	1.25"	1	1.50"	(4) #2	#6	-
110.3	1.25"	1	1.50"	(3) #2	#6	-
100.4	1.25"	1	1.50"	(4) #2	#8	-
100.3	1.25"	1	1.50"	(3) #2	#8	-
90.4	1.25"	1	1.50"	(4) #2	#8	-
90.3	1.25"	1	1.50"	(3) #2	#8	-
80.4	1.25"	1	1.50"	(4) #4	#8	-
80.3	1.00"	1	1.50"	(3) #4	#8	-
70.4	1.25"	1	1.50"	(4) #4	#8	-
70.3	1.00"	1	1.50"	(3) #4	#8	-
60.4	1.00"	1	1.00"	(4) #6	#10	-
60.3	0.75"	1	1.00"	(3) #6	#10	-
50.4	1.00"	1	1.00"	(4) #6	#10	-
50.3	0.75"	1	1.00"	(3) #6	#10	-
40.4	0.75"	1	1.00"	(4) #8	#10	-
40.3	0.75"	1	1.00"	(3) #8	#10	-
30.4	0.75"	1	1.00"	(4) #10	#10	-
30.3	0.75"	1	1.00"	(3) #10	#10	-
20.4	0.75"	1	1.00"	(4) #12	#12	-
20.3	0.75"	1	1.00"	(3) #12	#12	-
---.K						7
XFR						8
SCHD						9

NOTES:

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION.
2. THIS SCHEDULE SHALL BE USED ON ALL FEEDERS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. USE THE "MOTOR CIRCUIT SCHEDULE" FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC., WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER.
3. PROVIDE GROUND WIRE NOTED ABOVE IN ALL FEEDERS AND BRANCH CIRCUITS. WHERE MULTIPLE CONDUITS ARE INDICATED PROVIDE NOTED GROUND WIRE IN EACH CONDUIT.
4. NOT ALL FEEDERS ARE NECESSARILY USED ON THIS PROJECT.
5. NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75 DEG..C TERMINALS.
6. "MET"= EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.
7. OVERSIZED (173% MIN.) NEUTRAL FOR FEEDERS CONNECTED TO A K-4 OR HIGHER RATED TRANSFORMER.
8. REFER TO TRANSFORMER SCHEDULE FOR STANDARD PRIMARY AND SECONDARY FEEDER SIZES.
9. REFER TO MCC OR PANEL SCHEDULES FOR FEEDER SIZES TO EQUIPMENT NOTED WITH THIS TAG.

VOLTAGE DROP TABLE

VOLT	AMP	MAXIMUM ALLOWED RUN LENGTH (FT) #12	#10	#8	#6	#4
120	2	500	800	1200	2000	3250
	4	250	400	600	1000	1625
	6	175	250	400	650	1100
	8	125	200	325	500	800
	10	100	150	250	400	650
	12	85	125	200	350	550
	14	75	110	175	300	450
	16	60	100	150	250	400
277	2	1100	1800	2750		
	4	550	900	1375		
	6	350	600	950		
	8	275	450	700		
	10	225	350	550		
	12	175	300	475		
	14	150	250	400		
	16	140	225	360		

DWELLING UNIT FEEDER SCHEDULE

FEEDER TAG	ALUMINUM CONDUCTORS PER CABLE PH./NEUTRAL	ALUMINUM GRND	ALUMINUM ~DIA.	COPPER CONDUCTORS PER CABLE PH./NEUTRAL	COPPER GRND	COPPER ~DIA.	NOTES
225.2N	(2) #300KCM H, (1) #300KCM N	#1	1.85"	(2) #4/0 H, (1) #4/0 N	#4	1.6"	-
200.2N	(2) 250KCM-H, (1) 250KCM-N	#2	1.75"	(2) #3/0 H, (1) #3/0 N	#4	1.5"	-
175.2N	(2) #4/0 H, (1) #4/0 N	#2	1.6"	(2) #2/0 H, (1) #2/0 N	#6	1.4"	-
150.2N	(2) #3/0 H, (1) #3/0 N	#4	1.4"	(2) #1/0 H, (1) #1/0 N	#6	1.3"	-
125.2N	(2) #2/0 H, (1) #2/0 N	#4	1.3"	(2) #1 H, (1) #1 N	#6	1.2"	-
100.2N	(2) #1 H, (1) #1 N	#4	1.2"	(2) #2 H, (1) #2 N	#6	1.2"	-

NOTES:

1. THIS SCHEDULE SHALL ONLY BE USED FOR FEEDERS SERVING DWELLING UNIT SERVICE PANELS, UNLESS OTHERWISE NOTED.
2. REFER TO BASIS OF DESIGN TO DETERMINE CHOICE OF COPPER OR ALUMINUM CONDUCTORS AND WHETHER METAL-CLAD (MC) CABLE OR "SER" TYPE CABLE SHALL BE USED. "SER" TYPE CAN NOT BE USED IN TYPE I OR TYPE II BUILDINGS.
3. ALUMINUM CONDUCTORS SHOWN IN THIS SCHEDULE ARE BASED ON AA-8000 AL. ALLOY CONDUCTORS WITH XHHW-2 INSULATION.
4. COPPER CONDUCTORS SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH THHN/THWN-2 INSULATION.
5. CONDUCTOR SIZES ARE BASED ON 60/75 C. OR 75 C. CIRCUIT BREAKER TERMINATION RATINGS.
6. "~DIA." COLUMN VALUES ARE THE APPROXIMATE OUTSIDE DIAMETER OF THE CABLE. USE FOR DETERMINING BLOCK-OUT SIZES AND CABLE BUNDLE SIZES.

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SCHEDULES

Sheet Name

E001

SUBMITTED 2/26/21

MECHANICAL AND PLUMBING EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE

TAG NAME	TAG #	EQUIPMENT DESCRIPTION	LOAD HP	LOAD KVA	LOAD FLA	LOAD CLASS	VOLTS	Ø	ALT POWER	CIRCUITING INFORMATION PANEL	CIRCUIT	OCP	POLES	FEEDER	DISCONNECT DIV.	DISCONNECT TYPE	STARTER DIV	STARTER TYPE	LEVEL	NOTES
CP	1	CIRCULATION PUMP	0.1 hp	0.06 kVA	1 A	M	120 V	1	No	H5	4	20 A	1	20.1	DIV. 26	SWITCH	DIV. 22	N/A	Roof Level	
CU	1-1	CONDENSING UNIT	0 hp	4.99 kVA	24 A	C	208 V	1	No	H5	7,9	30 A	2	30.2	DIV. 26	FUSED	DIV. 23	N/A	Roof Level	
(F) CU	1-FA	CONDENSING UNIT	0 hp	4.99 kVA	24 A	Spare	208 V	1	No	T1	13,15	30 A	2	30.2	DIV. 26	FUSED	DIV. 23	N/A	Roof Level	FUTURE EQUIPMENT
(F) CU	1-FB	CONDENSING UNIT	0 hp	4.99 kVA	24 A	Spare	208 V	1	No	T1	17,19	30 A	2	30.2	DIV. 26	FUSED	DIV. 23	N/A	Roof Level	FUTURE EQUIPMENT
(F) CU	1-FC	CONDENSING UNIT	0 hp	4.99 kVA	24 A	Spare	208 V	1	No	T2	5,7	30 A	2	30.2	DIV. 26	FUSED	DIV. 23	N/A	Roof Level	FUTURE EQUIPMENT
DWP	1	DUPLEX BOOSTER PUMP	10 hp	12.03 kVA	33 A	M	208 V	3	No	H1	13,15,17	60 A	3	60.3M	DIV. 26	VFD	DIV. 22	N/A	Level 1	
EF	1-1	EXHAUST FAN	0.3 hp	0.7 kVA	6 A	M	120 V	1	No	H1	46	20 A	1	20.1	DIV. 26	SWITCH	DIV. 23	VFD	Level 1	
EF	1-2	EXHAUST FAN	0.1 hp	0.36 kVA	3 A	M	120 V	1	Yes	H1	44	20 A	1	20.1	DIV. 26	SWITCH	DIV. 23	VFD	Level 1	
(F) EF	R-1	EXHAUST FAN	7.5 hp	8.72 kVA	24 A	Spare	208 V	3	No	T1	1,3,5	50 A	3	50.3M	DIV. 26	SWITCH	DIV. 23	VFD	Upper Roof	FUTURE EQUIPMENT
(F) EF	R-2	EXHAUST FAN	5 hp	6.02 kVA	17 A	Spare	208 V	3	No	T1	7,9,11	30 A	3	30.3M	DIV. 26	SWITCH	DIV. 23	VFD	Upper Roof	FUTURE EQUIPMENT
EH	1-1	ELECTRIC HEATER	0 hp	1.5 kVA	0 A	C	208 V	1	No	H1	19,21	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-2	ELECTRIC HEATER	0 hp	1.5 kVA	0 A	C	208 V	1	No	H1	23,25	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-3	ELECTRIC HEATER	0 hp	1.5 kVA	0 A	C	208 V	1	No	H1	27,29	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-4	ELECTRIC HEATER	0 hp	3 kVA	0 A	C	208 V	1	No	T1	21,23	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-5	ELECTRIC HEATER	0 hp	3 kVA	0 A	C	208 V	1	No	T1	25,27	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-6	ELECTRIC HEATER	0 hp	3 kVA	0 A	C	208 V	1	No	T2	1,3	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-7	ELECTRIC HEATER	0 hp	1.5 kVA	0 A	C	208 V	1	No	H1	31,33	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-8	ELECTRIC HEATER	0 hp	1.5 kVA	0 A	C	208 V	1	No	H1	35,37	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
EH	1-9	ELECTRIC HEATER	0 hp	1.5 kVA	0 A	C	208 V	1	No	H1	39,41	20 A	2	20.2	DIV. 26	SWITCH	DIV. 23	THERMOSTAT	Level 1	
ELEV	1	ELEVATOR	15 hp	16.64 kVA	46 A	E	208 V	3	No	H5	11,13,15	60 A	3	60.3	DIV. 26	FUSED SHUNT TRIP	DIV. 11	CONTROLLER	Level 4	
FCU	1-1	FAN COIL UNIT	0 hp	0.62 kVA	3 A	C	208 V	1	No	H1	34,36	20 A	2	20.2	DIV. 26	FUSED	DIV. 23	N.A	Level 1	
FP	1	FIRE PUMP	20 hp	21.4 kVA	59 A	M	208 V	3	No	SWBD-1	5	TAP	3	100.3M	DIV. 22	VFD	DIV. 22	VFD	Level 1	
GWH	1	GAS WATER HEATER	0 hp	0.12 kVA	1 A	N	120 V	1	No	H5	2	20 A	1	20.1	DIV. 26	SWITCH	DIV. 22	N/A	Roof Level	
GWH	2	GAS WATER HEATER	0 hp	0.12 kVA	1 A	N	120 V	1	No	H5	2	20 A	1	20.1	DIV. 26	SWITCH	DIV. 22	N/A	Roof Level	
JP	1	JOCKEY PUMP	1.5 hp	2.38 kVA	7 A	M	208 V	3	No	H1	14,16,18	20 A	3	20.3M	DIV. 26	NON-FUSED	DIV. 22	N/A	Level 1	
MUA	R-1	MAKE-UP AIR UNIT	0 hp	15.49 kVA	43 A	N	208 V	3	No	H5	1,3,5	50 A	3	50.3	DIV. 26	FUSED	DIV. 23	N/A	Roof Level	
MV	1	MIXING VALVE	0.1 hp	0.06 kVA	1 A	N	120 V	1	No	H5	4	20 A	1	20.1	DIV. 26	SWITCH	DIV. 22	N/A	Roof Level	

6

MECHANICAL AND PLUMBING EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE - DWELLING UNITS

TAG NAME	TAG #	EQUIPMENT DESCRIPTION	LOAD HP	LOAD KVA	LOAD FLA	LOAD CLASS	VOLTS	Ø	ALT POWER	CIRCUITING INFORMATION PANEL	CIRCUIT	OCP	POLES	FEEDER	DISCONNECT DIV.	DISCONNECT TYPE	STARTER DIV	STARTER TYPE	LEVEL	NOTES
CU	203	CONDENSING UNIT	0 hp	3.12 kVA	15 A	C	208 V	1	No	STUDIO NORTH	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Roof Level	
CU	206	CONDENSING UNIT	0 hp	3.12 kVA	15 A	C	208 V	1	No	STUDIO TYPE A	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Roof Level	
CU	207	CONDENSING UNIT	0 hp	3.12 kVA	15 A	C	208 V	1	No	ONE BEDROOM	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Roof Level	
CU	208	CONDENSING UNIT	0 hp	3.12 kVA	15 A	C	208 V	1	No	STUDIO SOUTH	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Roof Level	
EH	207	ELECTRIC HEATER	0 hp	1 kVA	8 A	C	208 V	1	No	ONE BEDROOM	13,15	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	THERMOSTAT	Level 2	
FCU	203	FAN COIL UNIT	0 hp	0.19 kVA	0 A	C	208 V	1	No	STUDIO NORTH	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Level 2	
FCU	206	FAN COIL UNIT	0 hp	0.19 kVA	0 A	C	208 V	1	No	STUDIO TYPE A	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Level 2	
FCU	207	FAN COIL UNIT	0 hp	0.19 kVA	0 A	C	208 V	1	No	ONE BEDROOM	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Level 2	
FCU	208	FAN COIL UNIT	0 hp	0.19 kVA	0 A	C	208 V	1	No	STUDIO SOUTH	5,7	20 A	2	20.2	DIV. 26	NON-FUSED	DIV. 23	N/A	Level 2	
KEF	203	KITCHEN EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	STUDIO NORTH	2	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	INTEGRAL MOTION SENSOR	Level 2	POWERED FROM OUTDOOR UNIT
KEF	206	KITCHEN EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	STUDIO TYPE A	2	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	INTEGRAL MOTION SENSOR	Level 2	POWERED FROM OUTDOOR UNIT
KEF	207	KITCHEN EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	ONE BEDROOM	2	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	INTEGRAL MOTION SENSOR	Level 2	POWERED FROM OUTDOOR UNIT
KEF	208	KITCHEN EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	STUDIO SOUTH	2	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	INTEGRAL MOTION SENSOR	Level 2	POWERED FROM OUTDOOR UNIT
TEF	203	TOILET EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	STUDIO NORTH	9	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	N/A	Level 2	
TEF	206	TOILET EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	STUDIO TYPE A	9	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	N/A	Level 2	
TEF	207	TOILET EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	ONE BEDROOM	9	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	N/A	Level 2	
TEF	208	TOILET EXHAUST FAN	0 hp	0.48 kVA	1 A	N	120 V	1	No	STUDIO SOUTH	9	20 A	1	20.1	DIV. 26	LOCKABLE BREAKER	DIV. 23	N/A	Level 2	

NOTES:
A. EQUIPMENT SHOWN ARE REPRESENTATIVE OF TYPICAL UNITS AS SHOWN ON E603. TYPICAL FOR ALL UNITS. CONTRACTOR TO REFER TO FLOORPLANS AND PROVIDE FINAL QUANTITIES OF EQUIPMENT.

6

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MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE

Sheet Name

E002

Sheet

SUBMITTED 2/26/21

SHEET NOTES

A WHERE POSSIBLE, BOXES SHALL BE IN SEPARATE STUD SPACES FROM BOXES SERVING OTHER ROOMS TO MINIMIZE SOUND TRANSFER.

B COORDINATE EXACT MECHANICAL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE CONDUIT REQUIREMENTS FOR ALL HVAC EQUIPMENT WITH CONTROLS CONTRACTOR.

C PROVIDE 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

D REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON NAMED ELECTRICAL EQUIPMENT SHOWN.

E REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT, UON.

F REFER TO ARCHITECTURAL FLOOR PLANS, INTERIOR ELEVATIONS AND DETAIL DRAWINGS PRIOR TO ROUGH-IN FOR EXACT LOCATION OF RECEPTACLES, FLOOR BOXES AND OUTLETS. INFORM ENGINEER OF CONFLICTS.

G CONTRACTOR IS RESPONSIBLE TO REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM CEILING TYPES IN ALL ROOMS (ACCESSIBLE, EXPOSED, OR "HARD") AND TO USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. INSURE ALL J-BOXES ARE ACCESSIBLE AFTER ALL OTHER TRADE'S WORK IS COMPLETED. DO NOT LOCATE ANY J-BOXES ON "HARD" CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH DEVICE ONLY IN "DAISEY-CHAIN" METHOD OR WITH DEDICATED HOMERUNS TO EACH DEVICE. J-BOXES MAY BE LOCATED ABOVE OTHER TRADE'S ACCESS DOORS IF FEASIBLE AND DOES NOT INTERFERE WITH ACCESS.

H FLOOR PLANS INDICATE THE APPROXIMATE LOCATIONS (PLUS/MINUS A FEW FEET) AND THE MINIMUM QUANTITY OF CONDUIT-TO-SOFT-WIRING TRANSITION POINTS TO BE PROVIDED UNDER THIS CONTRACT. CONTRACTOR MAY ADD ADDITIONAL CONDUIT-ONLY CONNECTED TRANSITION POINTS AS NECESSARY.

I CIRCUIT SIZES ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL USE CIRCUIT SIZES INDICATED IN NOTES OR RESPECTIVE SCHEDULES (PNL, MCC, ETC.) AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.

J INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC.

K PROVIDE #10 AWG NEUTRALS TO ALL 15A AND 20A RECEPTACLES THAT SHARE A COMMON NEUTRAL, UNLESS OTHERWISE NOTED.

L PROVIDE SPECIAL RECEPTACLES THAT MATCH CORD AND CAP PROVIDED WITH EQUIPMENT, UON. USE ADJACENT NEMA CONFIGURATION NUMBER, IF ONE IS SHOWN.

M ALL NEW RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED; CUT AND PATCH EXISTING WALLS TO ACCOMODATE NEW RACEWAY INSTALLATION. ALL CONDUITS TO BE INSTALLED 90° TO BUILDING LINES.

N FOR ELECTRICAL CONNECTIONS AND CIRCUITING TO MECHANICAL EQUIPMENT SHOWN ON THIS SHEET, REFER TO MECHANICAL-ELECTRICAL EQUIPMENT SCHEDULE.

O ALL DEVICES CIRCUITED TO PANEL H1 UON. (6)

KEYED NOTES (#)

1 NOT USED.

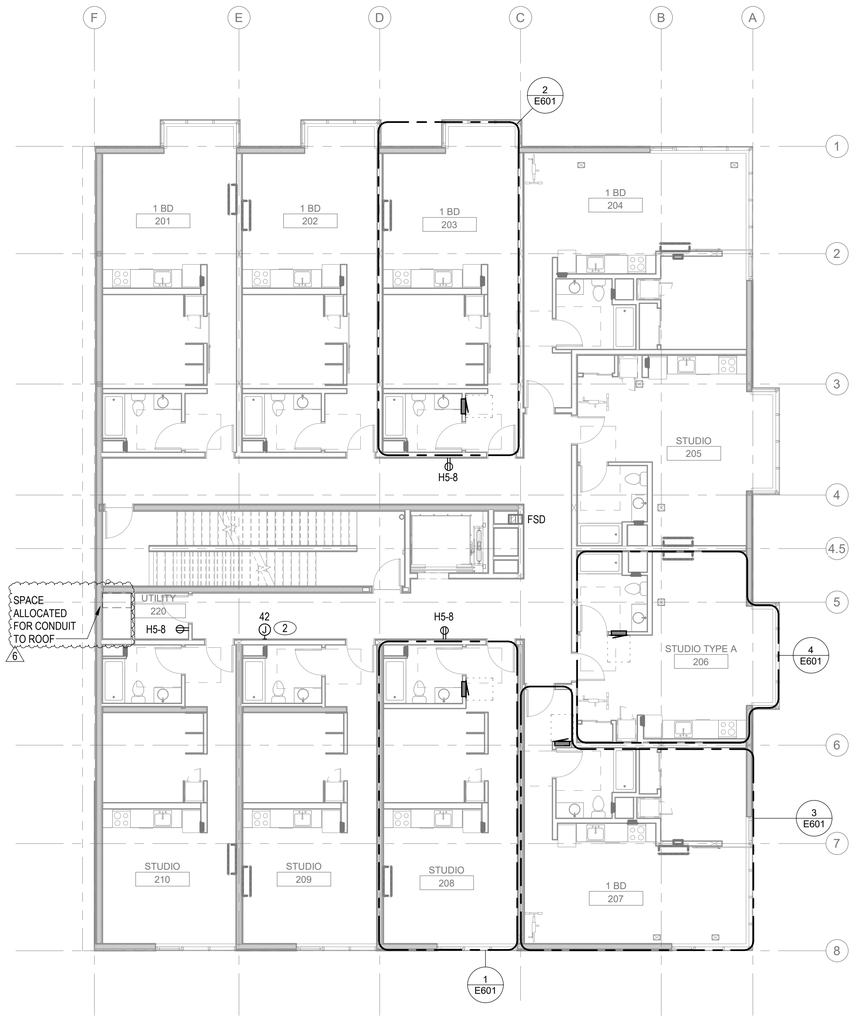
2 SEE ARCHITECTURAL PLANS FOR LUMINAIRE SPECIFICATIONS AND LAYOUT, INCLUDING EXIT SIGN LOCATIONS. CONNECT LUMINAIRES TO CIRCUITS SHOWN. REFER TO ARCHITECT FOR EGRESS LIGHTING LOCATIONS.

3 PROVIDE 2.8KVA 120V EMERGENCY LIGHTING INVERTER. MYERS ILLUMINATOR EM 1-EM-2-S-BA2001 OR APPROVED EQUAL.

4 PROVIDE 4 RELAY 120V LIGHTING CONTROL PANEL WITH ASTRONOMICAL TIME CLOCK AND PHOTOCELL CONTROL.

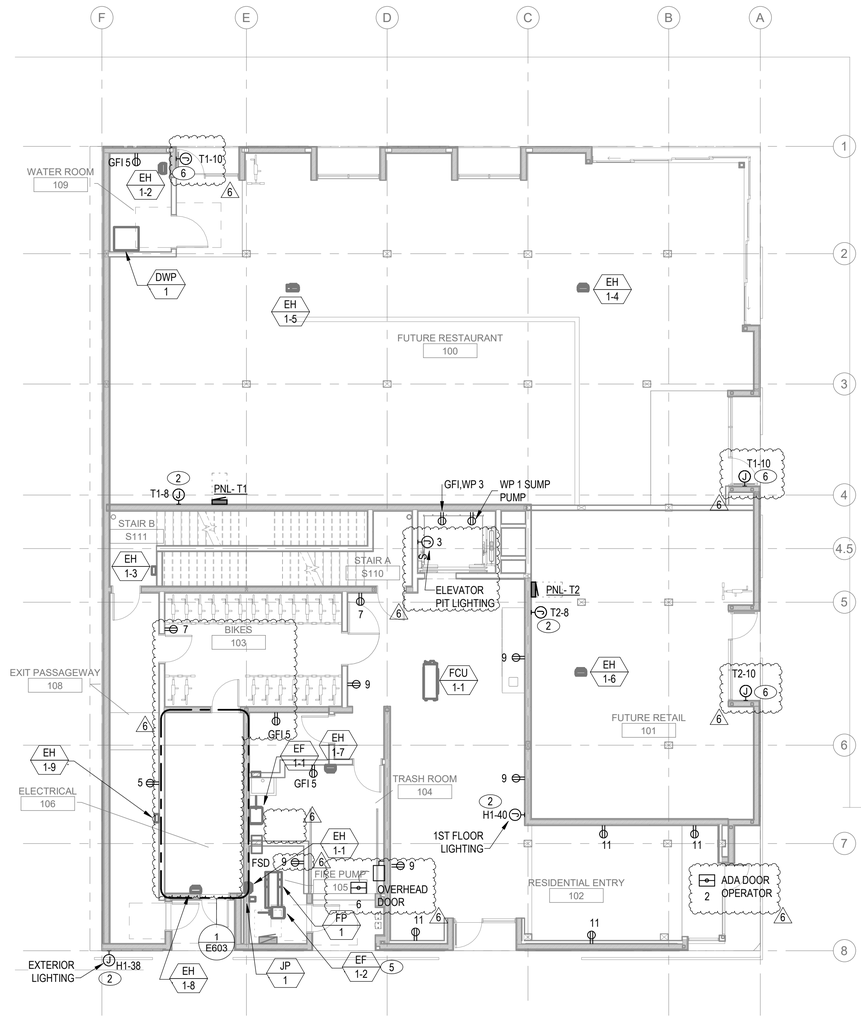
5 CONNECT TO EMERGENCY EGRESS LIGHTING INVERTER VIA UL924 RELAY.

6 CONNECTION TO FUTURE RETAIL SIGNAGE. (6)



3 LEVEL 2 - FLOOR PLAN - POWER AND SIGNAL

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



1 GROUND - FLOOR PLAN - POWER AND SIGNAL

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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GROUND LEVEL & 2ND FLOOR PLANS - POWER AND SIGNAL

Sheet Name

E200

Sheet

SUBMITTED 2/26/21

SHEET NOTES

A WHERE POSSIBLE, BOXES SHALL BE IN SEPARATE STUD SPACES FROM BOXES SERVING OTHER ROOMS TO MINIMIZE SOUND TRANSFER.

B COORDINATE EXACT MECHANICAL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE CONDUIT REQUIREMENTS FOR ALL HVAC EQUIPMENT WITH CONTROLS CONTRACTOR.

C PROVIDE 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

D REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON NAMED ELECTRICAL EQUIPMENT SHOWN.

E REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT, UON.

F REFER TO ARCHITECTURAL FLOOR PLANS, INTERIOR ELEVATIONS AND DETAIL DRAWINGS PRIOR TO ROUGH-IN FOR EXACT LOCATION OF RECEPTACLES, FLOOR BOXES AND OUTLETS. INFORM ENGINEER OF CONFLICTS.

G CONTRACTOR IS RESPONSIBLE TO REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM CEILING TYPES IN ALL ROOMS (ACCESSIBLE, EXPOSED, OR "HARD") AND TO USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. INSURE ALL J-BOXES ARE ACCESSIBLE AFTER ALL OTHER TRADE'S WORK IS COMPLETED. DO NOT LOCATE ANY J-BOXES ON "HARD" CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH DEVICE ONLY IN "DAISEY-CHAIN" METHOD OR WITH DEDICATED HOMERUNS TO EACH DEVICE. J-BOXES MAY BE LOCATED ABOVE OTHER TRADE'S ACCESS DOORS IF FEASIBLE AND DOES NOT INTERFERE WITH ACCESS.

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J INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC.

K PROVIDE #10 AWG NEUTRALS TO ALL 15A AND 20A RECEPTACLES THAT SHARE A COMMON NEUTRAL, UNLESS OTHERWISE NOTED.

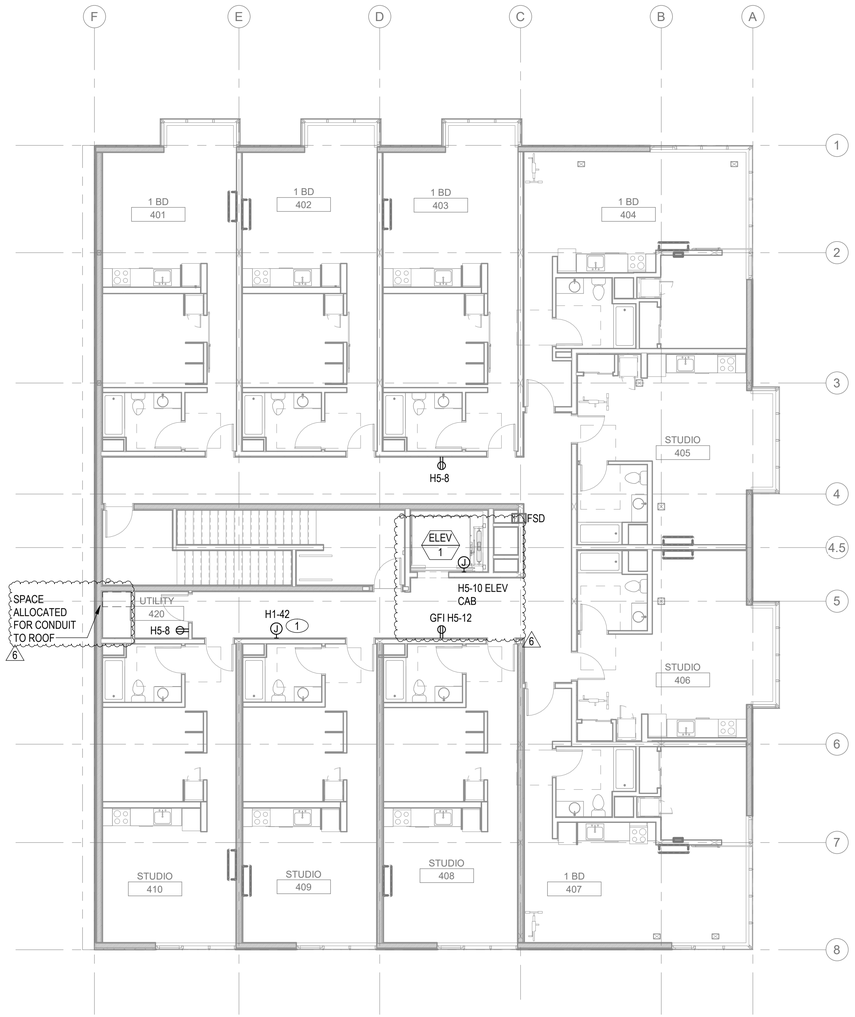
L PROVIDE SPECIAL RECEPTACLES THAT MATCH CORD AND CAP PROVIDED WITH EQUIPMENT, UON. USE ADJACENT NEMA CONFIGURATION NUMBER, IF ONE IS SHOWN.

M ALL NEW RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED; CUT AND PATCH EXISTING WALLS TO ACCOMODATE NEW RACEWAY INSTALLATION. ALL CONDUITS TO BE INSTALLED 90° TO BUILDING LINES.

N FOR ELECTRICAL CONNECTIONS AND CIRCUITING TO MECHANICAL EQUIPMENT SHOWN ON THIS SHEET, REFER TO MECHANICAL-ELECTRICAL EQUIPMENT SCHEDULE.

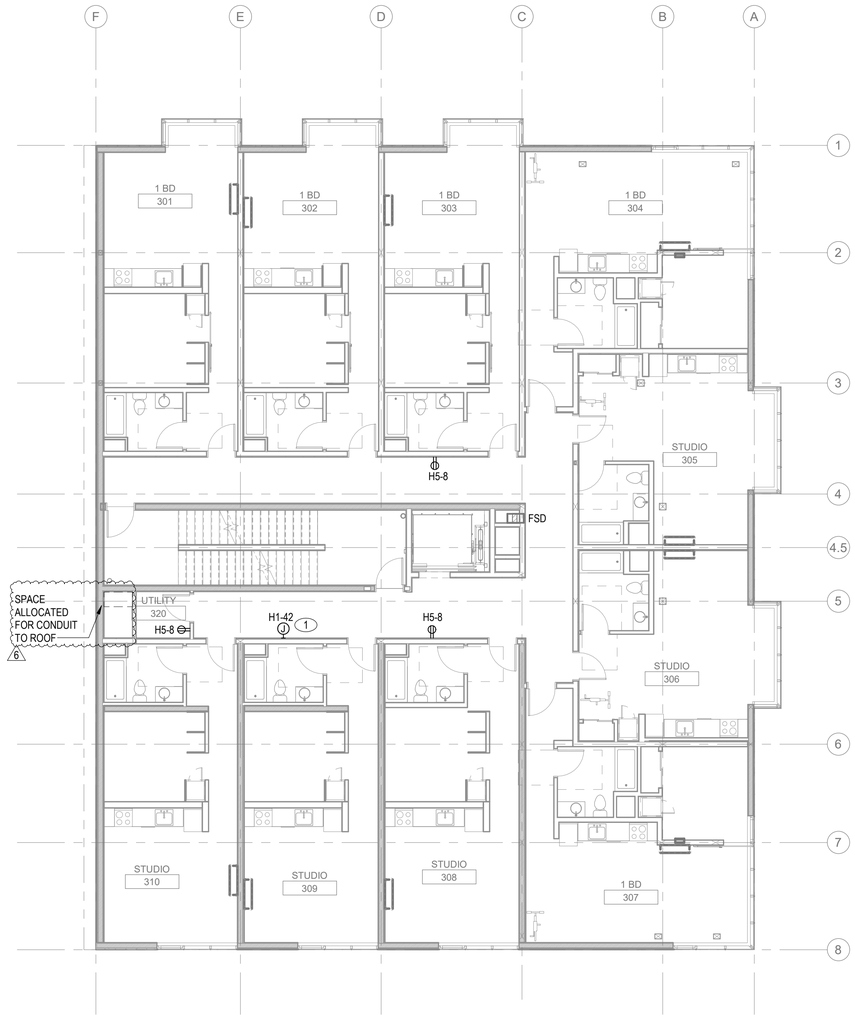
KEYED NOTES (#)

1 SEE ARCHITECTURAL PLANS FOR LUMINAIRE SPECIFICATIONS AND LAYOUT. CONNECT LUMINAIRES TO CIRCUITS SHOWN.



2 LEVEL 4 - FLOOR PLAN - POWER AND SIGNAL

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



1 LEVEL 3 - FLOOR PLAN - POWER AND SIGNAL

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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3RD & 4TH FLOOR PLANS - POWER AND SIGNAL

Sheet Name

E201

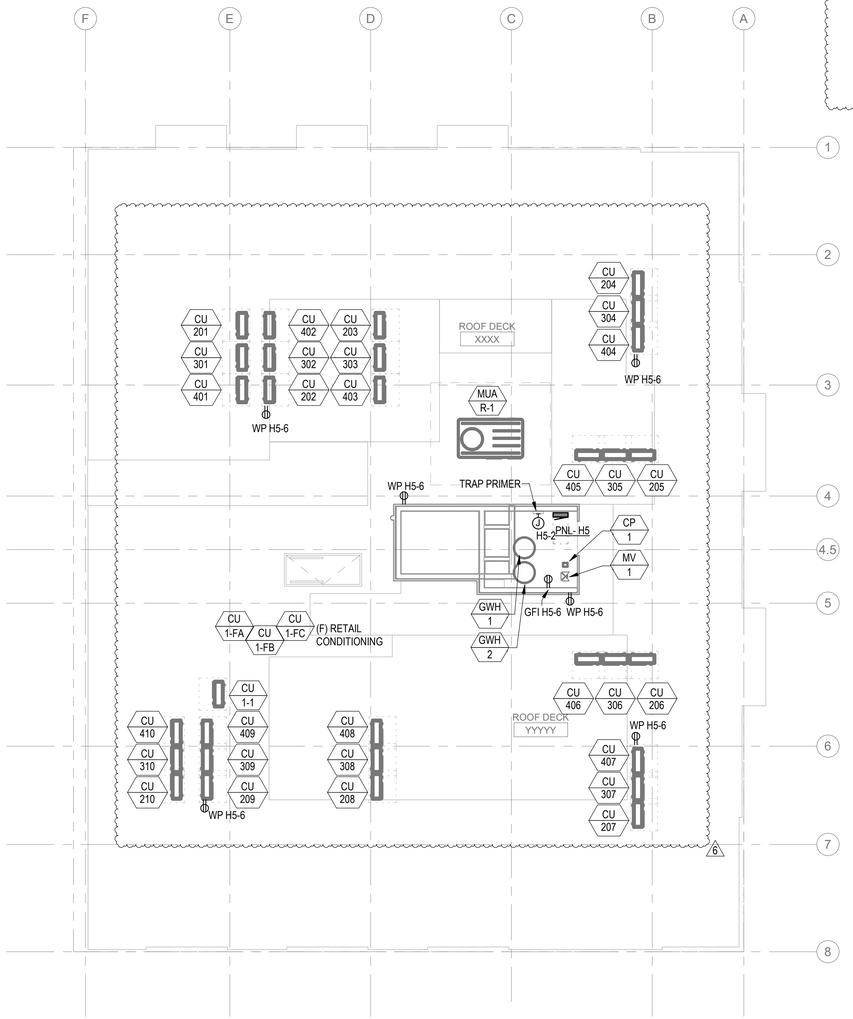
Sheet

SUBMITTED 2/26/21

SHEET NOTES

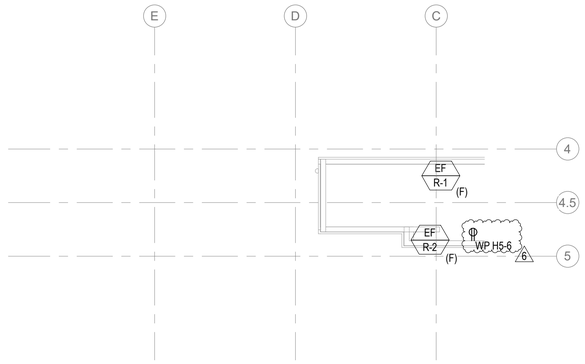
A. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT, UON.
B. DO NOT ROUTE CONDUIT ON ROOF. RUN ALL HORIZONTAL CONDUIT BELOW ROOF.
C. REFER TO MECHANICAL DRAWINGS FOR MOUNTING AND EQUIPMENT DETAILS.
D. ALL EXTERIOR MOUNTED EQUIPMENT AND CONDUIT SHALL BE WEATHERPROOF RATED, MINIMUM NEMA 3R.
E. ROUTE ALL CONDUITS UP THROUGH EQUIPMENT CURBS. COORDINATE LOCATION TO AVOID CONFLICTS AND ALLOW FOR CODE CLEARANCES AND MAINTENANCE ACCESS.
F. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC.
G. DUCT SMOKE DETECTORS FURNISHED AND WIRED BY DIVISION 26, INSTALLED BY DIVISION 23. COORDINATE WITH MECHANICAL CONTRACTOR FOR SAMPLING TUBE LENGTHS. DIVISION 23 TO WIRE TO VFD SHUTDOWN TERMINALS.
H. CIRCUIT SIZES ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL USE CIRCUIT SIZES INDICATED IN NOTES OR RESPECTIVE SCHEDULES (PNL, MCC, ETC.) AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.

△6



1 ROOF LEVEL - FLOOR PLAN - POWER AND SIGNAL

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



2 UPPER ROOF - FLOOR PLAN - POWER AND SIGNAL

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

NORTH

1/8" = 1'-0"

0 8 16 24 32

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PERMIT SET

Issue Date: 2018-01-19

REVISIONS:

1	ADDENDUM 2	2018-03-30
6	ASI 03	2021-02-02

ROOF PLANS - POWER AND SIGNAL

Sheet Name

E202

Sheet

SUBMITTED 2/26/21

SWITCHBOARD- SWBD-1

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: PAD
MAIN AMPS/ TYPE: 1,200 A/MLO
BUS AMPS: 1,200 A
INTEGRAL SPD No
NEMA RATING: TYPE 1
AIC RATING: 42 KAIC
POWER SOURCE TYPE: NORMAL
LOCATION:
SUPPLY FROM: UTILITY

CKT	CIRCUIT DESCRIPTION	NO.of POLES	LOAD TYPE	FRAME SIZE	TRIP RATING	FEEDER TAG	A	B	C	REMARKS
1	PANEL 'H1'	3	L; M;...	400 A	400 A	400.4	24.77 kVA	24.71 kVA	23.66 kVA	
2	PANEL 'T1'	3	L; C;...	400 A	400 A	400.4	22.79 kVA	22.22 kVA	20.15 kVA	
3	PANEL 'T2'	3	L; C;...	200 A	200 A	200.4	8 kVA	5.8 kVA	6.42 kVA	
4	RESIDENTIAL UNITS	3	N	800 A	800 A	800.4	77.33 kVA	77.33 kVA	77.33 kVA	
5	FIRE PUMP	3	M	0 A	0 A	100.3M	7.13 kVA	7.13 kVA	7.13 kVA	
6										
7										
8										
9										
10										
SPECIAL SWITCHBOARD FEATURES:					Total Connected Load:		138.42 kVA	135.48 kVA	133.28...	
					Total Connected Amps:		1156.3 A	1131.8 A	1110.7 A	

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND/ ADJUSTED	LEGEND	PANEL TOTALS	KVA	AMPS
M	16.78 kVA	100%	16.78 kVA	R = RECEPTACLE			
R	6.6 kVA	125%	8.25 kVA	L = LIGHTING	TOTAL CONNECTED LOAD:	406.38 kVA	1128 A
C	25.12 kVA	125%	31.4 kVA	M = MECH/EQUIP	TOTAL DEMAND LOAD:	420.51 kVA	1167.2 A
N	244.85 kVA	100%	244.85 kVA	K = KITCHEN	SPARE CAPACITY :	0%	0%
L	3.91 kVA	125%	4.89 kVA	C = CONTINUOUS	**REQUIRED CAPACITY:**	**420.51 kVA**	**1,167 A**
E	16.64 kVA	100%	16.64 kVA	N = NON-CONTINUOUS			
Motor	21.4 kVA	125%	26.75 kVA	E = ELEVATOR			
Spare	48 kVA	100%	48 kVA	SPARE = FUTURE			

DWELLING UNIT SERVICE CALCULATIONS

Optional NEC 220.82 Calculation Per Each Unit	STUA	STUB	1BRM+	1BRM-	
Lighting & Receptacle Load =	1.4	1.4	1.8	1.2	
Kitchen and Laundry Circuits =	4.5	4.5	4.5	4.5	
Fixed Equipment =	1.5	1.5	1.5	1.5	
Dryer =	5.0	5.0	5.0	5.0	
Cooking Equipment =	8.0	8.0	8.0	8.0	
Total General CONNECTED Load =	**20.4**	**20.4**	**20.8**	**20.2**	
NEC 220.82(B): 1st 10kVA @ 100% =	10.0	10.0	10.0	10.0	
NEC 220.82(B): Remain kVA @ 40% =	4.1	4.2	4.3	4.1	
SubTotal General DEMAND kVA =	**14.1**	**14.2**	**14.3**	**14.1**	
HVAC Connected kVA =	2.8	2.8	3.8	2.8	
NEC 220.82(C): HVAC Demand Factor =	100%	100%	91%	100%	
SubTotal HVAC Demand kVA =	**2.8**	**2.8**	**3.5**	**2.8**	
UNIT TOTAL DEMAND kVA W/ SPARE =	**19.5**	**19.5**	**20.5**	**19.4**	
Amps @ 208, 1 Phase with Spare =	**94**	**94**	**98**	**93**	
Utility Meter Size =	**125**	**125**	**125**	**125**	
Main Breaker Size =	**100**	**100**	**100**	**100**	
Panel Feeder Size, UON =	**100.2N**	**100.2N**	**100.2N**	**100.2N**	

1/7/21 12:07 PM

UNIT VOLTAGE: 208 **UNIT PHASES:** 1

UNIT PNL SPARE CAPACITY: 15% **BLDG PHASES:** 3

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Central Lofts - METER STACK CALCS

MS1 SERVES ALL RESIDENTIAL UNITS

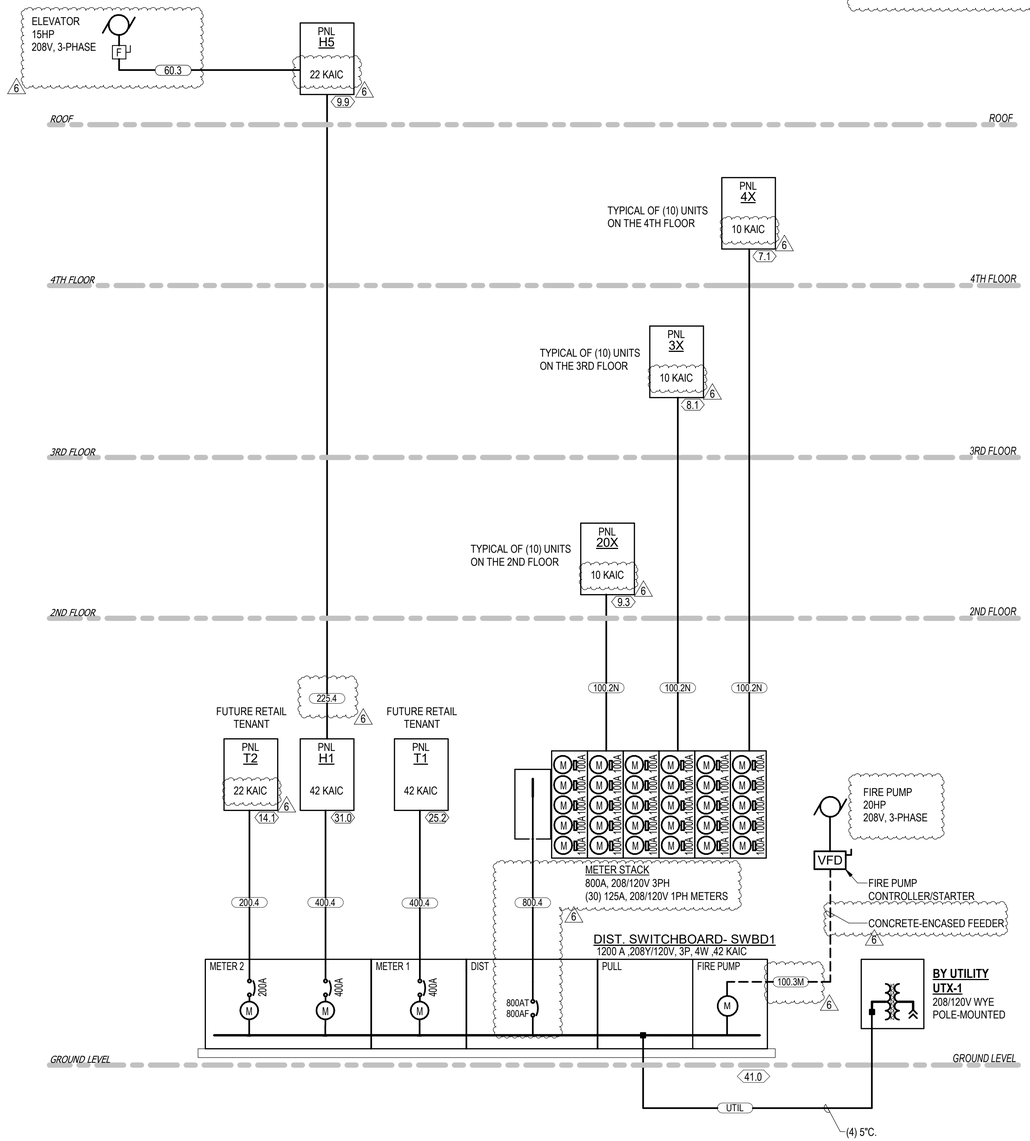
UNIT TYPE	UNIT QTY	REMARKS	EACH UNIT INFORMATION: CONN. KVA	METER AMPS	FEEDER AMPS	SQFT	VA/ SQFT	EXTENDED TOTALS: TOTAL KVA	TOTAL AMPS
STUA	**1**	STUDIO - TYPE A	23.2	125	100	450	51.5	23	64
STUB	**14**	STUDIO	23.3	125	100	475	49.0	326	904
1BRM+	**6**	1 BEDROOM - CORNER	24.6	125	100	597	41.2	148	410
1BRM-	**9**	1 BEDROOM	23.0	125	100	400	57.6	207	575
	30	**:TOTAL METERS**				CONNECTED kVA & 208V, 3 PHASE AMPS:		704	1,954
						ADD 8KW PER UNIT DUE TO NEC 220.32(2) EXCEPTION FOR NON-ELECTRIC COOKING:			
						SUBTOTAL:		704	1,954
30	= Qty. Of 125A Meters (6 -Stacks: 5 High)					DIVERSITY FACTOR:		33%	33%
	= Qty. Of 200A Meters (0 -Stacks: 5 High)					**DEMANDED kVA & 208V, 3 PHASE AMPS:**		232	645
9'-5"	= Meter Width With 33" Termination, No Corner					**15% SPARE CAPACITY ADDED:**		**267**	**741**
						OCPD AMP SIZE SERVING METER STACK:		**800**	

RETAIL TENANT LOAD CALCULATIONS

PROJECT: **Central Lofts** OCCUPANCY
SUBJECT: **Permit Set** **COMMERCIAL**

1.2 Retail

LOAD SERVED	AREA SQ. FT.	LIGHITNG LOADS VA/ SQ.FT.	LIGHITNG LOADS KVA	RECEPTACLE LOADS VA/ SQ.FT.	RECEPTACLE LOADS KVA	HVAC LOADS VA/ SQ.FT.	HVAC LOADS KVA	KITCHEN TOTAL KVA	TOTAL CONN. KVA	TOTAL AMPS
Retail T1	2,586	1	2.6	5.00	12.9	8.00	20.7		36	100
Retail T2	846	1	0.8	5.00	4.2	8.00	6.8		12	33
CONN. KVA TOTALS ---->			3		17		27		48	133
				1ST 10KVA @ 100%:	10	TOTAL kVA:	27	DEMAND FACTOR	----	----
CODE DEMAND	TOTAL kVA:	3.4		REMAIN @ 50%:	4		4	65%	----	----
FACTORS ---------->	+ 25% CONT. LOAD	0.9							----	----
DEMAND KVA TOTALS ---------->		4		14			27		45	126
SPARE CAPACITY ---------->		**25%**		**25%**			**25%**	**25%**		
TOTAL DESIGN KVA LOAD -->		**5**		**17**			**34**		**57**	**157**



1 Electrical Single Line Diagram

SCALE: NONE

SHEET NOTES

A. REFER TO SCHEDULES FOR FEEDER SIZES.
B. REFER TO DETAILS SHEETS FOR GROUNDING DETAILS.
C. THE VALUES INCLUDED IN HEX SYMBOLS INDICATE THE AVAILABLE FAULT CURRENT AT THAT PIECE OF EQUIPMENT, IN THOUSANDS OF AMPS, BASED ON ASSUMED FAULT CURRENT AT UTILITY. VERIFY AVAILABLE FAULT CURRENT WITH UTILITY AND PROVIDE FAULT CURRENT STUDY BASED ON INSTALLED EQUIPMENT AND CONDUCTORS.
D. ALL COMPONENTS SHALL BE FULLY RATED. SERIES RATED IS NOT ALLOWED.
E. PROVIDE CABLE SUPPORTS FOR CONDUCTORS IN VERTICAL RACEWAYS PER NEC 300.19.
F. PROVIDE SURGE PROTECTION DEVICES IN ALL EMERGENCY EQUIPMENT PER NEC 700.8.
G. PROVIDE ARC ENERGY REDUCTION MAINTENANCE SWITCH AND INDICATING LIGHT ON ALL OCPD DEVICES RATED OR ABLE TO BE ADJUSTED TO 1200A OR HIGHER PER NEC 240.87.

6

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1	ADDENDUM 2	2018-03-30
6	ASI 03	2021-02-02

ELECTRICAL SINGLE LINE DIAGRAM

Sheet Name

E501

Sheet

SUBMITTED 2/26/21

PANEL: H1

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 400 A
MAIN AMPS: 400 A MLO
AIC RATING: 42 KAIC
NEMA RATING: Type 1
INTEGRAL TVSS: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION:
SUPPLY FROM: SWBD-1

CKT	TRIP	POLE	DESCRIPTION	TYPE	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	20 A	1	RECEPT - ELEVATOR SUMP PUMP	M	1.3	0.1					M	ADA DOOR OPERATOR	1	20 A	2
3	20 A	1	RECEPT,LTG - ELEVATOR PIT	R; C			0.48	0			--	FIRE SMOKE DAMPERS	1	20 A	4
5	20 A	1	RECEPT - ELEC 106, JAN 107, CORR...	R					1.08	0.1	M	TRASH ROOM - OVERHEAD DOOR	1	20 A	6
7	20 A	1	RECEPT - LAUNDRY ROOM 103	R	0.36	0					--	SPARE	1	20 A	8
9	20 A	1	RECEPT -LOBBY	R			0.9	0			--	SPARE	1	20 A	10
11	20 A	1	RECEPT -LOBBY	R					0.72	0	--	SPARE	1	20 A	12
13	60 A	3	DOMESTIC BOOSTER PUMP (DWP-1)	M	4.01	0.79					M	JOCKEY PUMP	3	20 A	14
15	--	--	--	--			4.01	0.79			--	--	--	--	16
17	--	--	--	--					4.01	0.79	--	--	--	--	18
19	20 A	2	UNIT HEATER #1 (EH 1-1)	C	0.75	0					--	SPARE	1	20 A	20
21	--	--	--	--			0.75	0			--	SPARE	1	20 A	22
23	20 A	2	UNIT HEATER #2 (EH 1-2)	C					0.75	0	--	SPARE	1	20 A	24
25	--	--	--	--	0.75	0					--	SPARE	1	20 A	26
27	20 A	2	UNIT HEATER #3 (EH 1-3)	C			0.75	0.6			C	RECEPT - TELCO	1	20 A	28
29	--	--	--	--					0.75	0.6	C	RECEPT - TELCO	1	20 A	30
31	20 A	2	UNIT HEATER #7 (EH 1-7)	C	0.75	0					--	SPARE	1	20 A	32
33	--	--	--	--			0.75	0.31			C	FAN COIL UNIT (FCU 1-1)	2	20 A	34
35	20 A	2	UNIT HEATER #8 (EH 1-8)	C					0.75	0.31	--	--	--	--	36
37	--	--	--	--	0.75	0.29					L	EXTERIOR LIGHTING	1	20 A	38
39	20 A	2	UNIT HEATER #9 (EH 1-9)	C			0.75	1.2			L	1ST FLOOR LIGHTING	1	20 A	40
41	--	--	--	--					0.75	1.26	L	LVL 2 - 4 CORRIDOR LIGHTS	1	20 A	42
43	20 A	1	SPARE	--	0	0.63					L; M	EMERGENCY LIGHTING INVERTER	1	30 A	44
45	20 A	1	SPARE	--			0	0.7			M	EXHAUST FANS	1	20 A	46
47	20 A	1	SPARE	--					0	0.5	C	FIRE ALARM PANEL	1	20 A	48
49	20 A	1	SPARE	--	0	14.82					M; ...	PANEL 'H5'	3	225 A	50
51	20 A	1	SPARE	--			0	13.47			--	--	--	--	52
53	20 A	1	SPARE	--					0	12.05	--	--	--	--	54
SPECIAL PANEL FEATURES					24.77 kVA		24.71 kVA		23.66 kVA		CIRCUIT NOTES				
					207.8 A		207.3 A		197.2 A						

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND/AD...	LOAD TYPE KEY	PANEL TOTALS	KVA	AMPS
C	16.16 kVA	125%	20.2 kVA	R = RECEPTACLE			
L	2.75 kVA	125%	3.44 kVA	L = LIGHTING	TOTAL CONNECTED LOAD:	72.4 kVA	201 A
M	4.78 kVA	100%	4.78 kVA	M = MECH/EQUIP	TOTAL DEMAND LOAD:	81.49 kVA	226.2 A
N	15.78 kVA	100%	15.78 kVA	K = KITCHEN	SPARE CAPACITY:	15%	15%
R	6.6 kVA	125%	8.25 kVA	C = CONTINUOUS	**REQUIRED CAPACITY:**	**93.72 kVA**	**260 A**
E	16.64 kVA	100%	16.64 kVA	N = NON-CONTINUOUS			
Motor	12.03 kVA	125%	15.04 kVA				

PANEL: H5

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 225 A
MAIN AMPS: 225 A MLO
AIC RATING: 22 KAIC
NEMA RATING: Type 1
INTEGRAL TVSS: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION:
SUPPLY FROM: H1

CKT	TRIP	POLE	DESCRIPTION	TY...	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	50 A	3	MAKE-UP AIR UNIT (MUA R-1)	N	5.16	0.53					R; N	GAS WATER HEATERS (GWH-1,2)	1	20 A	2
3	--	--	--	--			5.16	0.12			M; N	CIRC PUMP (CP-1) & (MV-1)	1	20 A	4
5	--	--	--	--					5.16	1.44	R	RECEPT - ROOF MAINTENENCE	1	20 A	6
7	30 A	2	LOBBY CONDENSING UNIT (CU 1-1)	C	2.5	1.44					R	LVL 2 - 4 CORRIDOR RECEPT	1	20 A	8
9	--	--	--	--			2.5	0.3			C	ELEVATOR CAB	1	20 A	10
11	60 A	3	ELEVATOR	E					5.55	0.18	R	ELEVATOR LOBBY RECEPT	1	20 A	12
13	--	--	--	--	5.55	0					--	SPARE	1	20 A	14
15	--	--	--	--			5.55	0			--	SPARE	1	20 A	16
17	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	18
19	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	20
21	--	--	SPACE	--			0	0			--	SPACE	--	--	22
23	--	--	SPACE	--					0	0	--	SPACE	--	--	24
25	--	--	SPACE	--	0	0					--	SPACE	--	--	26
27	--	--	SPACE	--			0	0			--	SPACE	--	--	28
29	--	--	SPACE	--					0	0	--	SPACE	--	--	30
31	--	--	SPACE	--	0	0					--	SPACE	--	--	32
33	--	--	SPACE	--			0	0			--	SPACE	--	--	34
35	--	--	SPACE	--					0	0	--	SPACE	--	--	36
37	--	--	SPACE	--	0	0					--	SPACE	--	--	38
39	--	--	SPACE	--			0	0			--	SPACE	--	--	40
41	--	--	SPACE	--					0	0	--	SPACE	--	--	42
SPECIAL PANEL FEATURES					14.82 kVA		13.47 kVA		12.05 kVA		CIRCUIT NOTES				
					125.3 A		114.1 A		100.4 A						

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND/ADJUST...	LOAD TYPE KEY	PANEL TOTALS	KVA	AMPS
C	5.28 kVA	125%	6.6 kVA	C = CONTINUOUS			
M	0.06 kVA	100%	0.06 kVA	E = ELEVATOR	TOTAL CONNECTED LOAD:	40.33 kVA	111.9 A
N	15.78 kVA	100%	15.78 kVA	K = KITCHEN	TOTAL DEMAND LOAD:	42.33 kVA	117.5 A
R	3.36 kVA	125%	4.2 kVA	L = LIGHTING	SPARE CAPACITY:	10%	10%
E	16.64 kVA	100%	16.64 kVA	LH = WAREHOUSE LIGHTING	**REQUIRED CAPACITY:**	**46.56 kVA**	**129 A**
				LM = HOTEL/MOTEL LIGHTING			
				LW = WAREHOUSE LIGHTING			
				M = MECH/EQUIP			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

PANEL: T1

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 400 A
MAIN AMPS: 400 A MCB
AIC RATING: 42 KAIC
NEMA RATING: Type 1
INTEGRAL TVSS: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION:
SUPPLY FROM: SWBD-1

CKT	TRIP	POLE	DESCRIPTION	TY...	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	50 A	3	FUTURE EXHAUST FAN	Sp...	2.91	12					--	(F) RETAIL TENANT LOAD	3	20 A	2
3	--	--	--	--			2.91	12			--	--	--	--	4
5	--	--	--	--					2.91	12	--	--	--	--	6
7	30 A	3	FUTURE EXHAUST FAN	Sp...	2.01	0.17					L	LIGHTS	1	20 A	8
9	--	--	--	--			2.01	0.6			L	(F) SIGNAGE	1	20 A	10
11	--	--	--	--					2.01	0	--	SPARE	1	20 A	12
13	30 A	2	FUTURE CONDENSING UNIT	Sp...	2.5	0					--	SPARE	1	20 A	14
15	--	--	--	--			2.5	0			--	SPARE	1	20 A	16
17	30 A	2	FUTURE CONDENSING UNIT	Sp...					2.5	0	--	SPARE	1	20 A	18
19	--	--	--	--	2.5	0					--	SPARE	1	20 A	20
21	20 A	2	UNIT HEATER #4 (EH 1-4)	C			1.5	0			--	SPARE	1	20 A	22
23	--	--	--	--					1.5	0	--	SPARE	1	20 A	24
25	20 A	2	UNIT HEATER #5 (EH 1-5)	C	1.5	0					--	SPARE	1	20 A	26
27	--	--	--	--			1.5	0			--	SPARE	1	20 A	28
29	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	30
31	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	32
33	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	34
35	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	36
37	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	38
39	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	40
41	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	42
SPECIAL PANEL FEATURES					22.79 kVA		22.22 kVA		20.15 kVA		CIRCUIT NOTES				
					192.6 A		187.8 A		167.9 A						

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND/ADJUST...	LOAD TYPE KEY	PANEL TOTALS	KVA	AMPS
C	6 kVA	125%	7.5 kVA	C = CONTINUOUS			
L	0.77 kVA	125%	0.96 kVA	E = ELEVATOR	TOTAL CONNECTED LOAD:	65.15 kVA	180.8 A
Motor	8.72 kVA	125%	10.9 kVA	K = KITCHEN	TOTAL DEMAND LOAD:	68.77 kVA	190.9 A
Spare	36 kVA	100%	36 kVA	L = LIGHTING	SPARE CAPACITY:	10%	10%
				LH = WAREHOUSE LIGHTING	**REQUIRED CAPACITY:**	**75.65 kVA**	**210 A**
				LM = HOTEL/MOTEL LIGHTING			
				LW = WAREHOUSE LIGHTING			
				M = MECH/EQUIP			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

PANEL: T2

VOLTAGE: 208Y/120V, 3PH, 4W
MOUNTING: SURFACE
BUS RATING: 200 A
MAIN AMPS: 200 A MCB
AIC RATING: 22 KAIC
NEMA RATING: Type 1
INTEGRAL TVSS: No
ISOL GROUND BAR: No
FEED-THRU LUGS: No
DOUBLE-LUGS: No
LOCATION:
SUPPLY FROM: SWBD-1

CKT	TRIP	POLE	DESCRIPTION	TY...	A (kVA)		B (kVA)		C (kVA)		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	20 A	2	UNIT HEATER #6 (EH 1-6)	C	1.5	4					--	(F) RETAIL TENANT LOAD	3	20 A	2
3	--	--	--	--			1.5	4			--	--	--	--	4
5	30 A	2	FUTURE CONDENSING UNIT	Sp...					2.5	4	--	--	--	--	6
7	--	--	--	--	2.5	0.09					L	LIGHTS	1	20 A	8
9	20 A	1	SPARE	--			0	0.3			L	(F) SIGNAGE	1	20 A	10
11	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	12
13	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	14
15	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	16
17	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	18
19	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	20
21	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	22
23	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	24
25	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	26
27	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	28
29	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	30
31	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	32
33	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	34
35	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	36
37	20 A	1	SPARE	--	0	0					--	SPARE	1	20 A	38
39	20 A	1	SPARE	--			0	0			--	SPARE	1	20 A	40
41	20 A	1	SPARE	--					0	0	--	SPARE	1	20 A	42
SPECIAL PANEL FEATURES					8 kVA		5.8 kVA		6.42 kVA		CIRCUIT NOTES				
					67.5 A		48.3 A		54.3 A						

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND/ADJUST...	LOAD TYPE KEY	PANEL TOTALS	KVA	AMPS
C	3 kVA	125%	3.75 kVA	C = CONTINUOUS			
L	0.39 kVA	125%	0.49 kVA	E = ELEVATOR	TOTAL CONNECTED LOAD:	20.19 kVA	56 A
Spare	12 kVA	100%	12 kVA	K = KITCHEN	TOTAL DEMAND LOAD:	21.04 kVA	58.4 A
				L = LIGHTING	SPARE CAPACITY:	10%	10%
				LH = WAREHOUSE LIGHTING	**REQUIRED CAPACITY:**	**23.14 kVA**	**64 A**
				LM = HOTEL/MOTEL LIGHTING			
				LW = WAREHOUSE LIGHTING			
				M = MECH/EQUIP			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

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6	ASI 03	2021-02-02

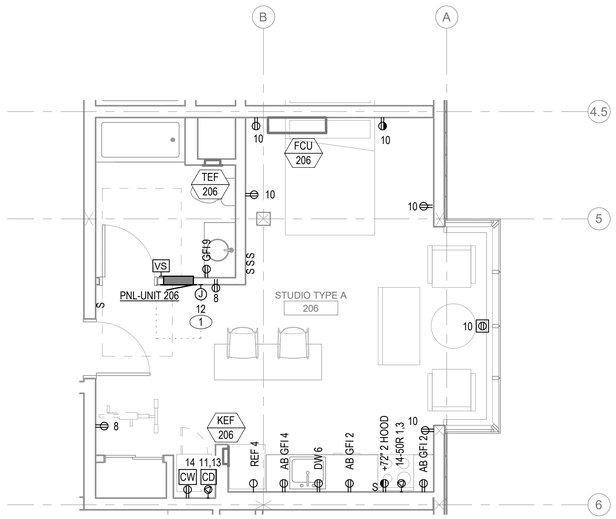
PANELBOARD SCHEDULES

Sheet Name

E502

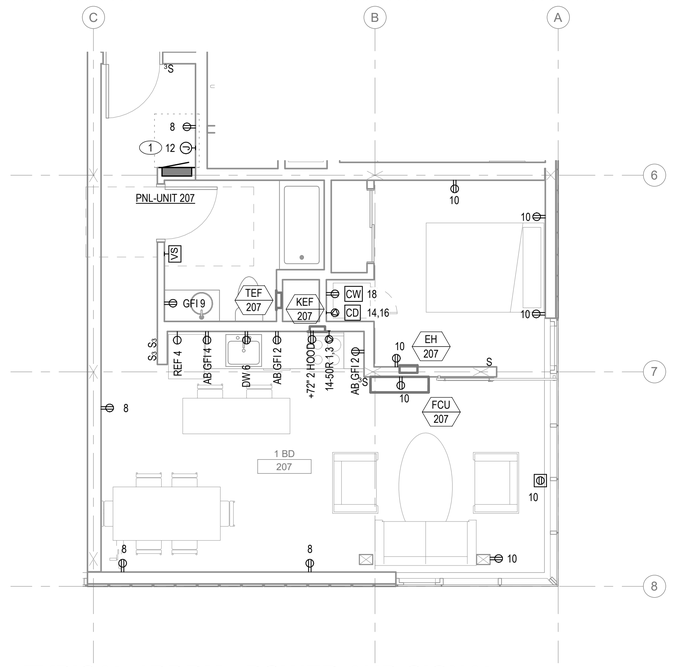
Sheet

SUBMITTED 2/26/21



4 TYPICAL STUDIO A POWER AND SIGNAL

SCALE: 1/4" = 1'-0"

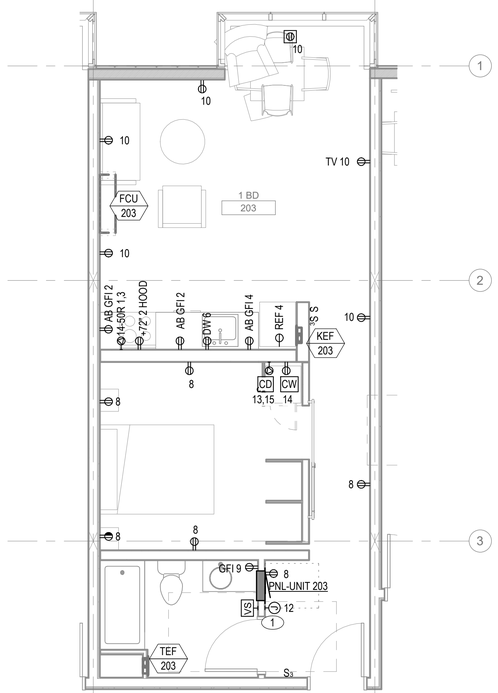


3 TYPICAL 1BDRM - POWER AND SIGNAL

SCALE: 1/4" = 1'-0"

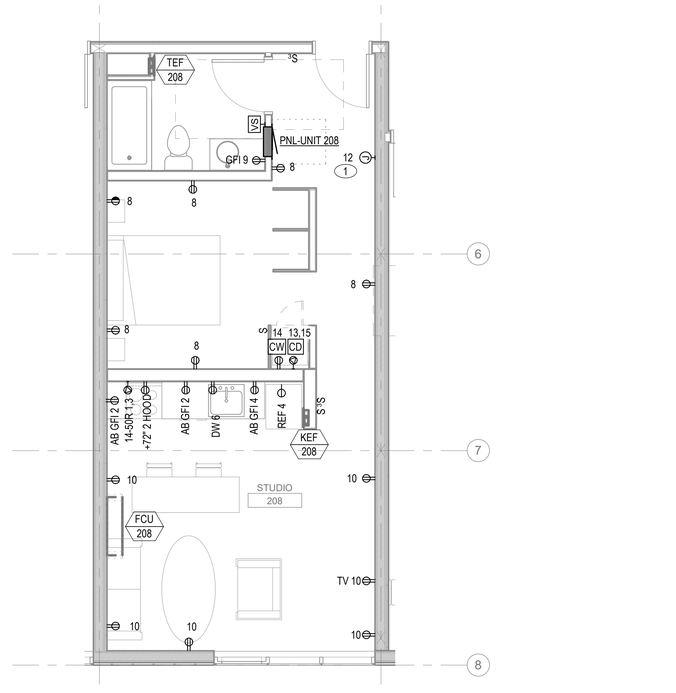
KEYED NOTES

1 SEE ARCHITECTURAL PLANS FOR LUMINAIRE SPECIFICATIONS AND LAYOUT. CONNECT LUMINAIRES TO CIRCUITS SHOWN.



2 TYPICAL STUDIO NORTH - POWER AND SIGNAL

SCALE: 1/4" = 1'-0"



1 TYPICAL STUDIO SOUTH - POWER AND SIGNAL

SCALE: 1/4" = 1'-0"

DWELLING UNIT CIRCUITING REQUIREMENTS

A. TYPICAL DWELLING UNIT FLOOR PLANS ARE SHOWN. ELECTRICAL, LIGHTING AND RECEPTACLE LAYOUT SHALL BE ADJUSTED TO MATCH SPECIFIC UNIT REQUIREMENTS AND TO ACCOMMODATE GENERAL CONSTRUCTION ISSUES, SUCH AS ACTUAL STUD LOCATIONS & PIPING, WHILE COMPLYING WITH ALL STATE AND LOCAL CODES. THE CODES AND THEIR VERSIONS THAT THIS DESIGN IS BASED ON ARE NOTED IN THE BASIS OF DESIGN. NEC CODE REFERENCES ARE SHOWN IN BRACKETS BELOW [ ]

B. INSTALL ALL ELECTRICAL EQUIPMENT AND LIGHTING PER MANUFACTURER'S REQUIREMENTS, REVISING ELECTRICAL DESIGN AS REQUIRED.

C. PROVIDE ONE CIRCUIT MINIMUM FOR INDIVIDUAL DWELLING UNIT LIGHTING, OR GREATER IF SHOWN ON FLOOR PLANS.

D. DWELLING UNIT PANEL SHALL BE 24-POLE, 208V, SINGLE-PHASE, THREE-WIRE, 10KAIC RATED WITH BUS AMPACITY AS NOTED ON SINGLE LINE DIAGRAM OR IN DWELLING UNIT SUMMARY. MAIN LUG ONLY, UNLESS OTHERWISE NOTED IN PANEL SCHEDULES. ALL CIRCUIT BREAKERS SHALL BE RATED 60/75 C. OR 75 C. SERIES RATING WITH DWELLING UNIT METER CIRCUIT BREAKER IS ALLOWED. ALL OTHER BREAKERS SHALL BE FULLY RATED, UON.

E. ALL 120V, 15-AMP AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER RESISTANT TYPE. RECEPTACLES > 5'-6" AFF. ARE EXEMPT. [406.12; 210.52; 550.13]

F. ALL 15-AMP AND 20-AMP BRANCH CIRCUIT WIRING SHALL USE SOLID, COPPER CONDUCTORS.

G. UP TO (8) GENERAL PURPOSE RECEPTACLES MAY BE COMBINED ON ONE 15-AMP RECEPTACLE CIRCUIT. #14 AWG. CONDUCTORS ARE ALLOWED FOR ALL 15-AMP CIRCUITS.15A CIRCUITS ARE ONLY ALLOWED INSIDE DWELLING UNITS

H. RECEPTACLES SHALL BE INSTALLED SUCH THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE OF ANY WALL SPACE IS MORE THAN 6' FROM A RECEPTACLE. ANY WALL SPACE THAT IS UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS, FIREPLACES, ARCHWAYS, AND SIMILAR OPENINGS MUST BE INCLUDED IN THE MEASUREMENT. [210.52(A)(1)]

I. ANY SPACE 2' OR MORE IN WIDTH, UNBROKEN ALONG THE FLOOR LINE MUST INCLUDE A RECEPTACLE [210.52(A)(2)(1)]

J. PROVIDE FLOOR-MOUNTED RECEPTACLE, WITHIN 18" OF WALL TO MEET THE REQUIRED RECEPTACLE SPACING IN FRONT OF FIXED GLASS PANELS IN EXTERIOR WALLS, WHERE THERE IS NO SPACE BELOW GLASS TO INSTALL A WALL RECEPTACLE. THESE FIXED GLASS PANELS ARE COUNTED AS WALL SPACE. [210.52(A)(2)]

K. PROVIDE ONE WALL SWITCH CONTROLLED LIGHTING OUTLET IN EVERY HABITABLE ROOM: LIVING ROOM, DINING ROOM, BATHROOM, KITCHEN AND ALL BEDROOMS. REFER TO FLOOR PLANS IF SWITCHED RECEPTACLES IN BEDROOMS ARE TO BE PROVIDED, IN LIEU OF, OR IN ADDITION TO LIGHTING OUTLETS, PER EXCEPTION NO. 1 [210.70(A)(1)]

L. PROVIDE CIRCUIT BREAKER STYLE, COMBINATION-TYPE ARC FAULT CIRCUIT INTERRUPTER (AFCI) FOR ALL 120V, SINGLE-PHASE, 15-AMP AND 20-AMP BRANCH CIRCUITS SUPPLYING RECEPTACLES, LIGHTING OUTLETS OR DEVICES IN ALL BEDROOMS AND LIVING AREAS. DO NOT PROVIDE FOR DEDICATED CIRCUITS SERVING APPLIANCES, OR FOR DEVICES KNOWN TO CAUSE UNWANTED TRIPPING OF AFCI DEVICES. DO NOT USE RECEPTACLE TYPE. [210.12(A)(1)]

M. PERMANENTLY CONNECTED ELECTRIC EQUIPMENT, SUCH AS WALL HEATERS, SHALL BE PROVIDED WITH LOCKABLE BREAKER IN THE PANEL. [422.31]

N. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DEDICATED BREAKER AND CIRCUIT SIZES FOR DWELLING UNIT HVAC AND PLUMBING EQUIPMENT.

O. PROVIDE KITCHEN COUNTERTOPS WITH A MINIMUM OF (2) 20-AMP SMALL APPLIANCE CIRCUITS [210.52(B)(3)]; PROVIDE EACH CIRCUIT WITH A SINGLE GFCI RECEPTACLE THAT SERVES ALL DOWNSTREAM RECEPTACLES SERVING KITCHEN COUNTERTOPS AND ISLANDS [210.8(A)(6)]

P. PROVIDE WALL SWITCH CONTROLLED LIGHTING OUTLET FOR KITCHEN AND BATHROOMS. SWITCHED RECEPTACLES NOT PERMITTED. [210.52(A)(2)(1)]

Q. UP TO (4) GENERAL PURPOSE KITCHEN COUNTERTOP RECEPTACLES MAY BE COMBINED ON EITHER OF THE 20-AMP KITCHEN CIRCUITS. NO MORE THAN (8) TOTAL ON EITHER CIRCUIT INCLUDING THE ROOMS NOTED BELOW.

R. IN KITCHENS, A RECEPTACLE SHALL BE INSTALLED AT EACH COUNTERTOP SPACE THAT IS 12" OR WIDER. [210.52(C)(1)] REFER TO [210.52(C)(2),(3)] FOR RECEPTACLES SERVING ISLANDS AND PENINSULAR COUNTERTOPS.

S. IN KITCHENS, RECEPTACLES SHALL BE INSTALLED SO THAT AT NO POINT ALONG THE WALL LINE IS MORE THAN 24" MEASURED HORIZONTALLY FROM ANOTHER RECEPTACLE OR MORE THAN 24" FROM THE END OF A COUNTER. COUNTERTOPS DIVIDED BY SINK, COOKTOP, RANGE, REFRIGERATOR OR OTHER PERMANENT EQUIPMENT IN COUNTER IS CONSIDERED A DIVISION, I.E. BEGRIMING AND END OF A COUNTER. [210.52 (C) (1)]

T. ALL KITCHEN GENERAL PURPOSE RECEPTACLES SHALL BE LOCATED ABOVE, BUT NOT MORE THAN 20" ABOVE COUNTER BACKSPLASH AND NOT MORE THAN 12" BELOW COUNTERTOP ON ISLANDS AND PENINSULAS. ALL REQUIRE CONNECTION TO GFCI CIRCUIT UNLESS OTHERWISE NOTED. [210.52(C.)(5)]

U. THIS DESIGN IS BASED ON CONNECTING THE REFRIGERATOR TO ONE OF THE (2) 20-AMP KITCHEN CIRCUITS. PROVIDE RECEPTACLE BEHIND REFRIGERATOR, CONNECTED TO THE CIRCUIT THAT HAS THE LEAST NUMBER OF RECEPTACLES. PROVIDE SIMPLEX RECEPTACLE LABELED AS "NOT GFCI PROTECTED" PER OREGON NEC AMENDMENTS. HOWEVER, CONTRACTOR SHALL PROVIDE SEPARATE 15A OR 20A CIRCUIT BREAKER AND RECEPTACLE FOR REFRIGERATOR, IF REQUIRED BY ACTUAL REFRIGERATOR INSTALLATION INSTRUCTIONS. [210.52(B)(1) EXCEPTION NO.2]

V. PROVIDE DEDICATED 15A CIRCUITS FOR DISHWASHER; AND MICROWAVE IF ABOVE OR BELOW COUNTER INCLUDING COOKTOP VENT HOOD. PROVIDE 20-AMP BREAKER AND WIRING WHERE THE INSTALLATION INSTRUCTIONS INDICATE THE TOTAL AMPERAGE IS > 12 AMPS OR WHERE IT IS SPECIFICALLY INDICATES THAT THE USE OF 20-AMP CIRCUIT IS REQUIRED.

W. PROVIDE SEPARATE GFCI TYPE CIRCUIT BREAKER FOR THE DISHWASHER (15-AMP) AND FOR THE CLOTHES WASHER (20-AMP) BRANCH CIRCUITS. [210.11(C)(2); 210.8(A)(10); 210.8(D)]

X. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS TO AVOID USING MULTI-POLE CIRCUIT BREAKERS. [210.4]

Y. NEUTRAL CONDUCTORS ON AFCI CIRCUITS MUST BE DEDICATED FOR EACH CIRCUIT BREAKER. THEY CANNOT BE SHARED OR MIXED WITH OTHER NEUTRALS.

Z. DEDICATED 20-AMP LAUNDRY CIRCUIT SHALL NOT BE SHARED OUTSIDE LAUNDRY ROOM/ CLOSET. [210,11(C)(2)]

AA. PROVIDE LIGHTING OUTLET IN SPACES CONTAINING EQUIPMENT THAT REQUIRES SERVICING. [210.70(A)(3)]

BB. PROVIDE 30-AMP, 208V, SINGLE-PHASE DEDICATED CIRCUIT FOR UNIT DRYER. VERIFY EXACT RECEPTACLE CONFIGURATION WITH APPLIANCE PRIOR TO ROUGH-IN. PROVIDE OUTLET WITH INSULATED GROUNDED (NEUTRAL) CONDUCTOR AND AN EQUIPMENT GROUNDING CONDUCTOR. [250.138]

CC. PROVIDE A DEDICATED 20-AMP CIRCUIT FOR EACH BATHROOM TO SERVE RECEPTACLE(S), LIGHTS, AND EXHAUST FAN. [210.11(C)(3)]. THIS CIRCUIT SHALL NOT BE SHARED OUTSIDE BATHROOM(S).

DD. PROVIDE BATHROOM(S) WITH MINIMUM OF ONE WALL SWITCH CONTROLLED LIGHTING OUTLET. [210.70(A)(1)]

EE. ALL RECEPTACLES WITHIN BATHROOM(S) SHALL HAVE GFCI RECEPTACLE-TYPE PROTECTION. [210.8(A)(1)]

FF. PROVIDE AT LEAST ONE RECEPTACLE WITHIN 36 INCHES FROM ONE OF THE OUTSIDE EDGES OF ALL SINKS WITHIN BATHROOMS. [210.52(D)]

GG. HALLWAYS OF 10' OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE. [210.52 (H)]

HH. PROVIDE HALLWAYS AND STAIRWAYS WITH MINIMUM OF ONE WALL SWITCH CONTROLLED LIGHTING OUTLET. SWITCHED RECEPTACLES NOT PERMITTED. [210.70(A)(2)(a)]

II. PROVIDE WALL SWITCH CONTROLLED LIGHTING OUTLET AND UNSWITCHED WEATHERPROOF GFCI TYPE RECEPTACLE FOR EXTERIOR BALCONY, DECK AND PATIO TYPE SPACES, WHERE APPLICABLE. MOUNT AT HEIGHT NOTED (RECEPTACLE CANNOT BE HIGHER THAN 6'-6") [210.52(E)(3)

JJ. FOR APPLIANCES THAT HAVE BOTH MOTOR HORSEPOWER AND FULL LOAD CURRENT VALUES, THE FULL LOAD CURRENT VALUE SHALL BE USED TO DETERMINE THE AMPACITY AND RATING OF THE CIRCUIT BREAKER AND BRANCH CIRCUIT CONDUCTORS. [430.6(A)(1) EXCEPTION NO. 3]

KK. PROVIDE COMBINATION SMOKE DETECTOR / CO2 SENSORS AND LOW-FREQUENCY SOUNDER BASES AS PART OF THE FIRE ALARM SYSTEM. LOCATE J-BOXES PER NFPA 72.

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Issue Date: 2018-01-19

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1	ADDENDUM 2	2018-03-30
2	ADDENDUM 3	2018-06-08
6	ASI 03	2021-02-02

ENLARGED UNIT PLANS

Sheet Name

E601

Sheet

SUBMITTED 2/26/21

PANEL: STUDIO TYPE A

VOLTAGE: 208V/120, 1PH, 3W
MOUNTING: RECESSED
BUS RATING: 125 A
MAIN AMPS: 100 A MCB
AIC RATING: 10 KAIC

CKT	TRIP	POLE	DESCRIPTION	TYPE	A		B		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	50 A	2	RANGE {3}	K	4	2.25			R; N	KITCHEN RECEPTS, KEF-1	1	20 A	2
3	--	--	--	--			4	1.8	R; N	KITCHEN RECEPTS	1	20 A	4
5	20 A	2	OUTDOOR CONDENSING UNIT	C	1.65	1.5			K	DISHWASHER	1	20 A	6
7	--	--	--	--			1.65	0.36	R	BEDROOM/HALL RECEPTS {1}	1	20 A	8
9	20 A	1	BATHROOM RECEPT, TEF-1 {1}	R; N	1.66	1.8			R; N;...	LIVING ROOM RECEPTS {1}	1	20 A	10
11	30 A	2	DRYER	N			2.75	1	L	LIGHTING {1}	1	20 A	12
13	--	--	--	--	2.75	0.18			N	WASHER {2}	1	20 A	14
15	20 A	1	SMOKE/CO2 DETECTOR	--			0	0	--	SPARE	1	20 A	16
17	20 A	1	SPARE	--	0	0			--	SPARE	1	20 A	18
19	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	20
21	20 A	1	SPARE	--	0	0			--	SPARE	1	20 A	22
23	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	24
					15.7 kVA		11.48 kVA						
					145.5 A		110.4 A						

SPECIAL PANEL FEATURES
MOUNT PANEL SUCH THAT THE CENTER LINE OF THE HIGHEST BREAKER IS INSTALLED AT A MAXIMUM OF 48" AFF.

CIRCUIT NOTES
{1} PROVIDE ARC-FAULT CIRCUIT BREAKER
{2} PROVIDE GFCI CIRCUIT BREAKER
{3} PROVIDE LOCKABLE BREAKER

PANEL: ONE BEDROOM

VOLTAGE: 208V/120, 1PH, 3W
MOUNTING: RECESSED
BUS RATING: 125 A
MAIN AMPS: 100 A MCB
AIC RATING: 10 KAIC

CKT	TRIP	POLE	DESCRIPTION	TYPE	A		B		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	50 A	2	RANGE {3}	K	4	2.25			R; N	KITCHEN RECEPTS, KEF-1	1	20 A	2
3	--	--	--	--			4	1.8	R; N	KITCHEN RECEPTS	1	20 A	4
5	20 A	2	OUTDOOR CONDENSING UNIT	C	1.65	1.5			K	DISHWASHER	1	20 A	6
7	--	--	--	--			1.65	0.72	R	BEDROOM/HALL RECEPTS {1}	1	20 A	8
9	20 A	1	BATHROOM RECEPT, TEF-1 {1}	R; N	1.66	1.26			R;...	LIVING ROOM RECEPTS {1}	1	20 A	10
11	20 A	1	BEDROOM RECEPTS {1}	R			0.18	1	L	LIGHTING {1}	1	20 A	12
13	20 A	2	ELECTRIC HEATER {3}	C	0.5	2.75			N	DRYER	2	30 A	14
15	--	--	--	--			0.5	2.75	--	--	--	--	16
17	20 A	1	SMOKE/CO2 DETECTOR	--	0	0.18			N	WASHER {2}	1	20 A	18
19	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	20
21	20 A	1	SPARE	--	0	0			--	SPARE	1	20 A	22
23	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	24
					15.58 kVA		12.44 kVA						
					145.8 A		119.6 A						

SPECIAL PANEL FEATURES
MOUNT PANEL SUCH THAT THE CENTER LINE OF THE HIGHEST BREAKER IS INSTALLED AT A MAXIMUM OF 48" AFF.

CIRCUIT NOTES
{1} PROVIDE ARC-FAULT CIRCUIT BREAKER
{2} PROVIDE GFCI CIRCUIT BREAKER
{3} PROVIDE LOCKABLE BREAKER

PANEL: STUDIO NORTH

VOLTAGE: 208V/120, 1PH, 3W
MOUNTING: RECESSED
BUS RATING: 125 A
MAIN AMPS: 100 A MCB
AIC RATING: 10 KAIC

CKT	TRIP	POLE	DESCRIPTION	TYPE	A		B		TYPE	DESCRIPTION	POLE	TRIP	CKT
1	50 A	2	RANGE {3}	K	4	2.25			R; N	KITCHEN RECEPTS, KEF-1	1	20 A	2
3	--	--	--	--			4	1.8	R; N	KITCHEN RECEPTS	1	20 A	4
5	20 A	2	OUTDOOR CONDENSING UNIT	C	1.65	1.5			K	DISHWASHER	1	20 A	6
7	--	--	--	--			1.65	1.08	R	BEDROOM/HALL RECEPTS {1}	1	20 A	8
9	20 A	1	BATHROOM RECEPT, TEF-1 {1}	R; N	1.66	1.2			R; C;...	LIVING ROOM RECEPTS {1}	1	20 A	10
11								1	L	LIGHTING {1}	1	20 A	12
13	30 A	2	DRYER	N	2.75	0.18			N	WASHER {2}	1	20 A	14
15	--	--	--	--			2.75	0	--	SPARE	1	20 A	16
17	20 A	1	SMOKE/CO2 DETECTOR	--	0	0			--	SPARE	1	20 A	18
19	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	20
21	20 A	1	SPARE	--	0	0			--	SPARE	1	20 A	22
23	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	24
					15.1 kVA		12.2 kVA						
					141.5 A		117.3 A						

SPECIAL PANEL FEATURES
MOUNT PANEL SUCH THAT THE CENTER LINE OF THE HIGHEST BREAKER IS INSTALLED AT A MAXIMUM OF 48" AFF.

CIRCUIT NOTES
{1} PROVIDE ARC-FAULT CIRCUIT BREAKER
{2} PROVIDE GFCI CIRCUIT BREAKER
{3} PROVIDE LOCKABLE BREAKER

PANEL: STUDIO SOUTH

VOLTAGE: 208V/120, 1PH, 3W
MOUNTING: RECESSED
BUS RATING: 125 A
MAIN AMPS: 100 A MCB
AIC RATING: 10 KAIC

CKT	TRIP	POLE	DESCRIPTION	TYPE	A		B		TYPE	DESCRIPTION	POLE	TRIP	CKT
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3	--	--	--	--			4	1.8	R; N	KITCHEN RECEPTS	1	20 A	4
5	20 A	2	OUTDOOR CONDENSING UNIT	C	1.65	1.5			K	DISHWASHER	1	20 A	6
7	--	--	--	--			1.65	1.08	R	BEDROOM/HALL RECEPTS {1}	1	20 A	8
9	20 A	1	BATHROOM RECEPT, TEF-1 {1}	R; N	1.66	1.08			R; C	LIVING ROOM RECEPTS {1}	1	20 A	10
11								1	L	LIGHTING {1}	1	20 A	12
13	30 A	2	DRYER	N	2.75	0.18			N	WASHER {2}	1	20 A	14
15	--	--	--	--			2.75	0	--	SPARE	1	20 A	16
17	20 A	1	SMOKE/CO2 DETECTOR	--	0	0			--	SPARE	1	20 A	18
19	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	20
21	20 A	1	SPARE	--	0	0			--	SPARE	1	20 A	22
23	20 A	1	SPARE	--			0	0	--	SPARE	1	20 A	24
					14.98 kVA		12.2 kVA						
					140.5 A		117.3 A						

SPECIAL PANEL FEATURES
MOUNT PANEL SUCH THAT THE CENTER LINE OF THE HIGHEST BREAKER IS INSTALLED AT A MAXIMUM OF 48" AFF.

CIRCUIT NOTES
{1} PROVIDE ARC-FAULT CIRCUIT BREAKER
{2} PROVIDE GFCI CIRCUIT BREAKER
{3} PROVIDE LOCKABLE BREAKER

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Issue Date: 2018-01-19

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1	ADDENDUM 2	2018-03-30
2	ADDENDUM 3	2018-06-08
6	ASI 03	2021-02-02

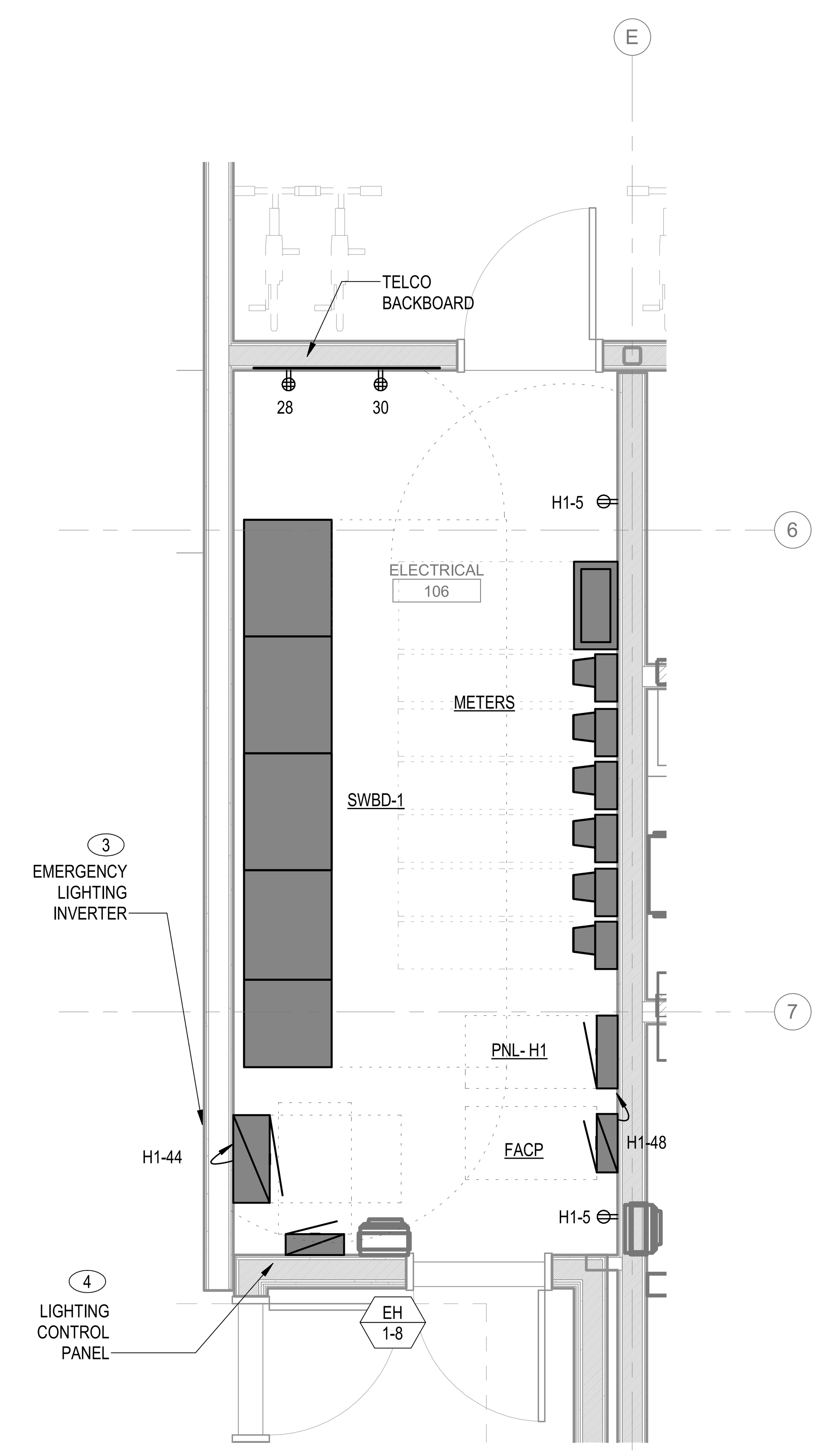
UNIT PANELBOARD SCHEDULES

Sheet Name

E602

Sheet

SUBMITTED 2/26/21



ENLARGED PLAN - MAIN ELECTRICAL ROOM - POWER AND SIGNAL

1

SCALE: 3/8" = 1'-0"

6

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CENTRAL LOFTS

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EXPIRES: 12/31/22
REGISTERED PROFESSIONAL ENGINEER
95270PE
OREGON
SEPT. 10, 2019
MIMI A. PETERSEN
DocuSigned by:
Mimi Petersen
2A4CF63F2E064F0...

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6	ASI 03	2021-02-02

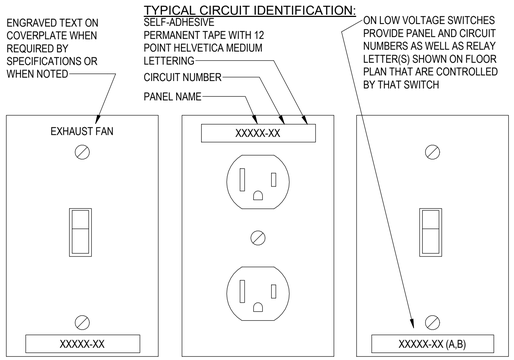
ENLARGED PLANS

Sheet Name

E603

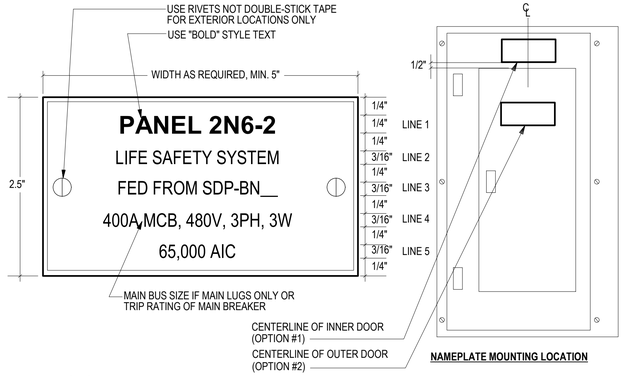
Sheet

SUBMITTED 2/26/21



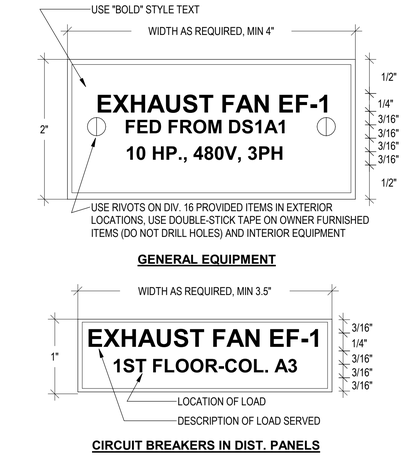
NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND COLORS OF TAPE REQUIRED FOR DIFFERENT SYSTEMS.
2. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH INSTALLATION.
3. LABEL DEVICES IN SURFACE METAL RACEWAYS, POWER POLES, FLOOR BOXES, CONCEALED MULTI-SERVICE POWER BOXES, ETC. SIMILARLY.
4. WHERE MULTIPLE SWITCHES ARE GROUPED UNDER COMMON COVERPLATE AND ARE SERVED FROM SAME CIRCUIT, PROVIDE ONLY ONE LABEL FOR MIDDLE SWITCH. PROVIDE MULTIPLE LABELS IF DIFFERENT CIRCUITS ARE USED.
5. LABELS ARE NOT REQUIRED FOR DEVICES IN APARTMENTS AND CONDOS.

6 DEVICE & SWITCH LABELING
SCALE: NONE



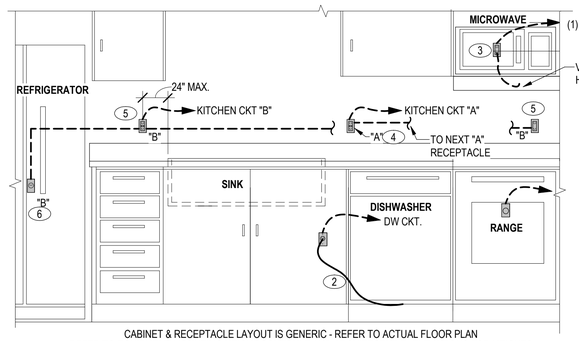
NOTES
1. SEE DRAWINGS FOR ADDITIONAL NAMEPLATE INFORMATION AND COLORS OF NAMEPLATES FOR DIFFERENT SYSTEMS.
2. PROVIDE ONE NAMEPLATE FOR EACH PANEL OR MCC SECTION. WHERE SECTION NUMBER TWO AND ABOVE ARE WITHIN SAME ROOM AND WITHIN 10' OF EACH OTHER SMALLER SIZE NAMEPLATE CAN BE USED.
3. CENTER ALL TEXT HORIZONTALLY.
4. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS
5. DRILL HOLES ON EXTERIOR NAMEPLATES ONLY.
6. PROVIDE TYPED PANEL SCHEDULES IN DOOR SLEEVES FOR ALL PANELS. INDICATE LOAD DISCRIPTION AND BREAKER.
7. NAMEPLATES ARE NOT REQUIRED FOR APARTMENT AND CONDO PANELS.

8 POWER & LIGHTING PANEL NAMEPLATES
SCALE: NONE



NOTES:
1. SEE DRAWINGS FOR ADDITIONAL NAMEPLATE INFORMATION AND COLORS OF NAMEPLATES FOR DIFFERENT SYSTEMS.
2. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS.
3. CENTER ALL TEXT HORIZONTALLY

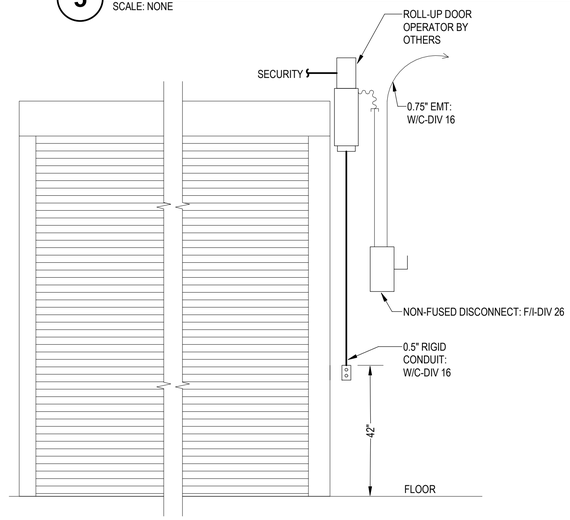
7 EQUIPMENT IDENTIFICATION NAMEPLATES
SCALE: NONE



CABINET & RECEPTACLE LAYOUT IS GENERIC - REFER TO ACTUAL FLOOR PLAN
REFER TO EQUIPMENT MOUNTING HEIGHT SCHEDULE AND ARCHITECTURAL ELEVATIONS FOR HEIGHTS

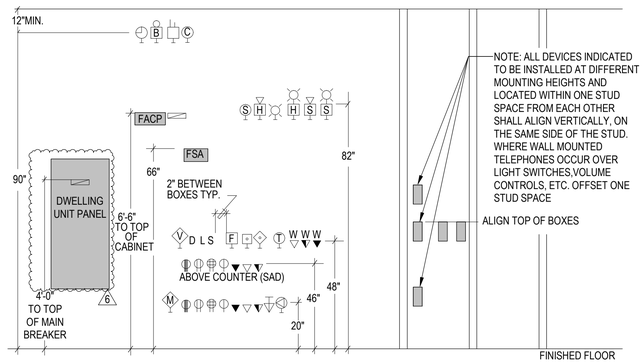
KEYED NOTES: (XX)
1. NOT USED.
2. NON-GFCI TYPE, DUPLEX RECEPTACLE SERVED FROM DEDICATED 15-AMP, 120V CIRCUIT BREAKER. LOCATE UNDER SINK TOWARD SIDE OF DISPOSER. COORDINATE WITH SINK PLUMBING. DO NOT LOCATE BEHIND DW. PROVIDE 6'-0" LONG "SO" CORD WITH NEMA 5-15 GROUNDED PLUG AND INSTALL ON DW, PER NEC 422.16(2). DRILL HOLE IN CABINET SIDE.
3. WHERE SHOWN ON FLOOR PLAN, PROVIDE DEDICATED NON-GFCI DUPLEX RECEPTACLE ON DEDICATED 120V BRANCH CIRCUIT FOR MICROWAVE AND VENT HOOD. HARDWIRE TO HOOD. DUPLEX SHALL BE AT LEAST 5'-6" AFF.
4. GFCI DUPLEX RECEPTACLE. CONNECT USING FEED-THRU TERMINALS ON GFCI TO PROTECT ALL OTHER DOWNSTREAM COUNTER RECEPTACLES. "A" & "B" RECEPTACLES SHALL ALTERNATE ACROSS COUNTER TOP AND BE APPROXIMATELY THE SAME NUMBER OR LESS ON THE "B" CIRCUIT SERVING THE REFRIGERATOR.
5. NON-GFCI DUPLEX RECEPTACLE PROTECTED BY FIRST GFCI RECEPTACLE
6. REFRIGERATOR RECEPTACLE SHALL BE CONNECTED TO HOMERUN PART OF THE CIRCUIT AT THE RECEPTACLE, I.E. NOT DOWNSTREAM OF GFCI. PROVIDE SIMPLEX RECEPTACLE DEDICATED TO REFRIGERATOR, WITH NOTE "NOT GFCI PROTECTED." (6)

5 DWELLING UNIT KITCHEN CIRCUITING
SCALE: NONE



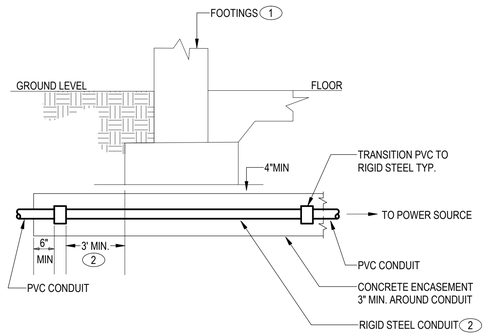
NOTE:
REFER TO SECURITY DETAIL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.

2 ROLL-UP DOOR WIRING
SCALE: NONE



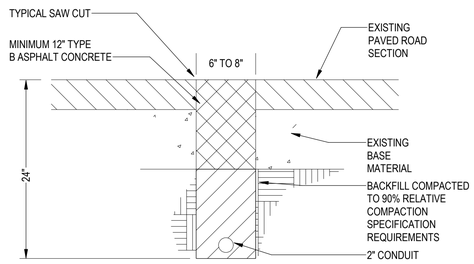
NOTES:
A. HEIGHTS SHOWN ARE TYPICAL TO TOP OF BOX, UNLESS OTHERWISE NOTED.
B. WHERE EVER DEVICES ARE INDICATED TO BE ABOVE DOORS, DEVICE SHALL BE CENTERED VERTICALLY BETWEEN TOP OF DOOR TRIM AND CEILING LINE AND CENTERED HORIZONTALLY ON DOOR OPENING, UNLESS OTHERWISE NOTED.
C. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE. CONTRACTOR SHALL ALWAYS REFER TO ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING J-BOXES AND BACKBOXES. INFORM ENGINEER AND ARCHITECT OF CONFLICTS.
D. DO NOT MOUNT THERMOSTATS OR TEMPERATURE SENSORS ABOVE DIMMERS. INFORM ENGINEER OF CONFLICTS.

1 ELECTRICAL TELECOM DEVICE MOUNTING
SCALE: NONE



KEYED NOTES: (XX)
1. SEE STRUCTURAL DRAWINGS FOR FOOTING TYPE AND DIMENSIONS.
2. 3'-0" BEYOND SPREAD FOOTING FOUNDATION, BOTH SIDES.

4 CONDUIT ENTRY BELOW FOOTING
SCALE: NONE



3 BURIED CONDUIT INSTALLATION
SCALE: NONE

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6	ASI 03	2021-02-02

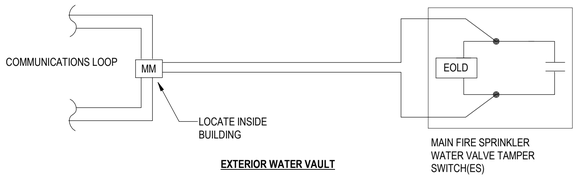
ELECTRICAL DETAILS

Sheet Name

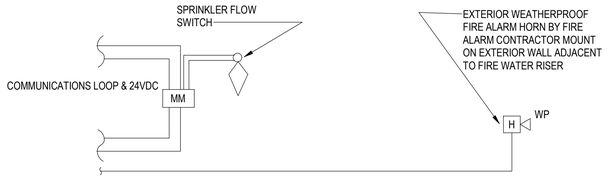
E901

Sheet

SUBMITTED 2/26/21



EXTERIOR WATER VAULT



FIRE SPRINKLER BELL

LEGEND

EOLD	END OF LINE SUPERVISORY DEVICE
CM	ADDRESSABLE REMOTE CONTROL MODULE
MM	ADDRESSABLE MONITOR MODULE FOR WATER FLOW SWITCH.
H	FIRE SPRINKLER HORN AT FIRE MARSHAL APPROVED LOCATION

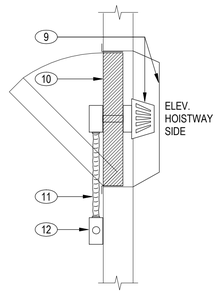
GENERAL NOTES

A. FLOW & TAMPER SWITCHES SHALL BE FURNISHED & INSTALLED BY DIVISION 15 AND CONNECTED BY DIVISION 16.

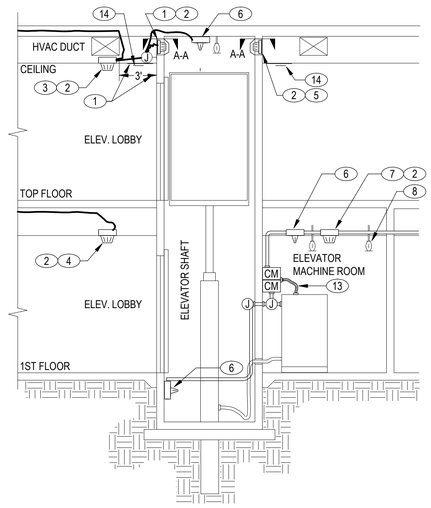
B. CORE DRILL WALL AS REQUIRED.

4 VAULT TAMPER & SPRINKLER BELL

SCALE: NONE



SECTION AT HOISTWAY A-A

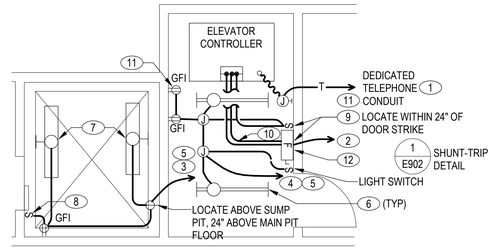


KEYED NOTES: (XX)

1. LOCATE ELEVATOR SHAFT ACCESS DOOR IN LOCATION WITH A MINIMUM OF 3'-0" CLEARANCE IN FRONT OF DOOR. PROVIDE ACCESS DOOR THROUGH CEILING TO ALLOW ACCESS TO HOISTWAY ACCESS DOOR.
2. SMOKE DETECTOR USED FOR ELEVATOR RECALL. RECALL SHALL BE INITIATED BY THESE DESIGNATED SMOKE DETECTORS ONLY.
3. ALTERNATE FLOOR ELEVATOR RECALL SMOKE DETECTOR. ONLY APPLIES IF TRAVEL IS GREATER THAN 25' OR THREE STORIES.
4. MAIN FLOOR ELEVATOR RECALL SMOKE DETECTOR. IF SMOKE IS DETECTED ON THIS FLOOR THEN ELEVATOR SHALL RECALL TO ALTERNATE FLOOR.
5. ALTERNATE LOCATION OF ELEVATOR SHAFT SMOKE DETECTOR IF CLEARANCE TO SHAFT ON OTHER SIDE IS BLOCKED.
6. ELEVATOR SYSTEM HEAT DETECTOR. PROVIDE 135 DEGREE F. RATE COMPENSATION TYPE. ACTIVATION SHALL INITIATE SHUNT TRIPPING OF ELEVATOR MOTOR DISCONNECT. LOCATE WITHIN 2'-0" OF ALL SPRINKLER HEADS. INCLUDE ONLY WHERE SPRINKLERS OCCUR IN MACHINE ROOM AND HOISTWAY.
7. SMOKE DETECTOR IN ELEVATOR MACHINE ROOM.
8. SPRINKLER HEAD IN ELEVATOR MACHINE ROOM.
9. ELEVATOR SHAFT SMOKE DETECTOR. PROVIDE CHICKEN WIRE SCREEN AROUND OPENING IN SHAFT TO PREVENT OBJECTS FROM FALLING.
10. FIRE RATED 24" SQUARE ACCESS DOOR TO ALLOW ACCESS TO SMOKE DETECTOR. MATCH FIRE RATING OF ELEVATOR HOISTWAY WALL.
11. 1/2" FLEXIBLE CONDUIT.
12. J-BOX WITH FIRE ALARM CONDUIT.
13. FIRE ALARM CONTROL MODULES FOR ACTIVATING PRIMARY AND ALTERNATE FLOOR ELEVATOR RECALL AND SHUNT-TRIPPING DISCONNECT.
14. WHITE NAMEPLATE WITH 3/16" HIGH RED LETTERS, "ELEVATOR SHAFT SMOKE DETECTOR ACCESS POINT".

2 ELEVATOR SYSTEMFIRE ALARM INSTALLATION (ANSI C17)

SCALE: NONE



NOTE:

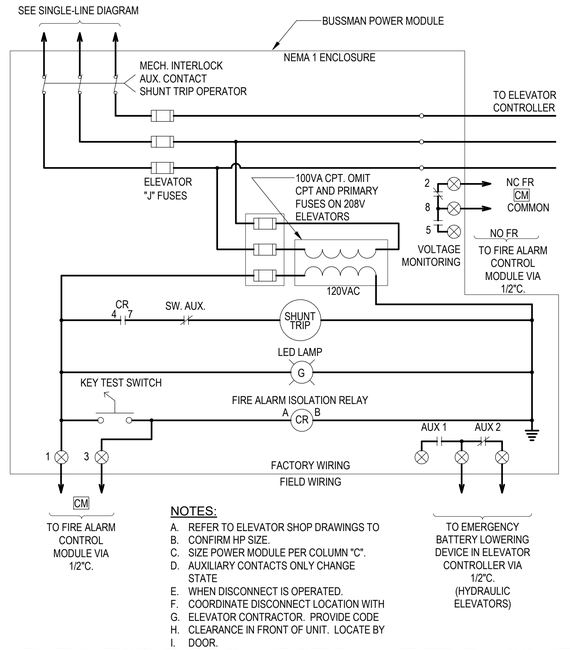
FLOOR PLAN IS DIAGRAMMATIC - INSTALL PER CODE AND ELEVATOR SHOP DRAWINGS.

KEYED NOTES: (XX)

1. PROVIDE 0.75" CONDUIT TO TELECOM CLOSET.
2. SEE SINGLE LINE DIAGRAM FOR ELEVATOR FEEDER WIRING.
3. PROVIDE THREE DEDICATED 120V, 20A CIRCUITS TO: 1) ELEVATOR PIT LIGHTING; 2) ELEVATOR PIT RECEPTACLE; 3) PERMANENT SUMP PUMP SIMPLEX RECEPTACLE.
4. PROVIDE FOUR DEDICATED 120V, 20A CIRCUITS TO: 1) ELEVATOR CONTROLLER; 2) MACHINERY ROOM LIGHTING; 3) MACINERY ROOM RECEPTACLE; 4) INTERCOM SYSTEM, IF INSTALLED.
5. REFER TO CIRCUITING SHOWN ON FLOOR PLAN TO DETERMINE NUMBER OF HOMERUN CONDUITS REQUIRED. DO NOT COMBINE WITH HOMERUNS FROM OTHER ROOMS/AREAS.
6. REFER TO ARCHITECTURAL PLANS FOR LIGHTING LAYOUT. (6)
7. NOT USED.
8. MOUNT PIT LIGHT SWITCH ADJACENT TO LADDER. USE ILLUMINATED HANDLE TYPE.
9. PROVIDE LOCKABLE DISCONNECTS. LABEL "ELEVATOR CAR LTG & FAN" AND "ELEVATOR MOTOR".
10. PROVIDE INTERFACE WIRING TO EMERGENCY LOWERING BATTERY UNIT (IF USED) TO PREVENT LOWERING OF ELEVATOR CAR WHEN FEEDER DISCONNECT IS OPENED.
11. INTERCOM SYSTEM GFCI RECEPTACLE. CONNECT THE 120VAC EMERGENCY LOWERING UNIT, IF INSTALLED, TO SAME CIRCUIT AS INTERCOM. FIELD VERIFY LOCATIONS.
12. ELEVATOR FEEDER SHUNT TRIP/FUSED DISCONNECT UNIT PER DETAIL NOTED. COORDINATE LOCATION WITH ELEVATOR CONTRACTOR AND MAINTAIN CODE CLEARANCES.

3 ELEVATOR INSTALLATION

SCALE: NONE



NOTES:

A. REFER TO ELEVATOR SHOP DRAWINGS TO
B. CONFIRM HP SIZE.
C. SIZE POWER MODULE PER COLUMN "C".
D. AUXILIARY CONTACTS ONLY CHANGE STATE
E. WHEN DISCONNECT IS OPERATED.
F. COORDINATE DISCONNECT LOCATION WITH
G. ELEVATOR CONTRACTOR. PROVIDE CODE
H. CLEARANCE IN FRONT OF UNIT. LOCATE BY
I. DOOR.

1 ELEVATOR DISCONNECT SHUNT TRIP - SCHEMATIC

SCALE: NONE

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1	ADDENDUM 2	2018-03-30
6	ASI 03	2021-02-02

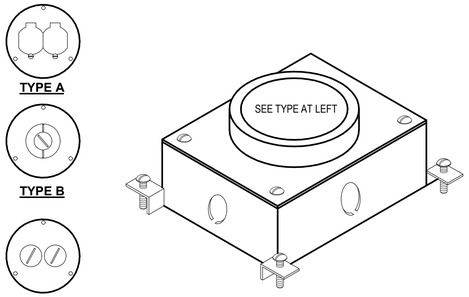
ELECTRICAL DETAILS

Sheet Name

E902

Sheet

SUBMITTED 2/26/21



NOTES

A. HOUSING SHALL BE CONCRETE TIGHT AND FULLY ADJUSTABLE: HUBBELL #B25 SERIES OR EQUAL. USE CAST IRON FOR SLAB-ON-GRADE APPLICATIONS AND STEEL MAY BE USED OR ABOVE-GRADE FLOORS.

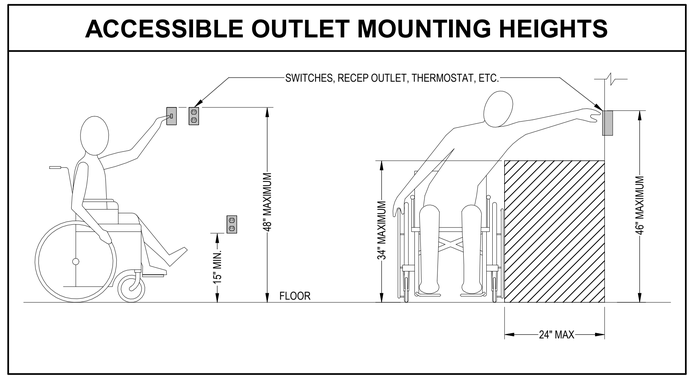
B. FIELD VERIFY TOPPING SLAB THICKNESS AND PROVIDE DEEPEST BOX HEIGHT POSSIBLE, I.E. USE SHALLOW BOX ONLY WHERE REQUIRED.

C. PROVIDE BRASS, TILE OR CARPET COVER PLATES; TYPE AS INDICATED OR REQUIRED FOR EACH APPLICATION.

5 ROUND CAST-CONCRETE FLUSH FLOOR BOX FOR TILE OR CARPETED AREAS

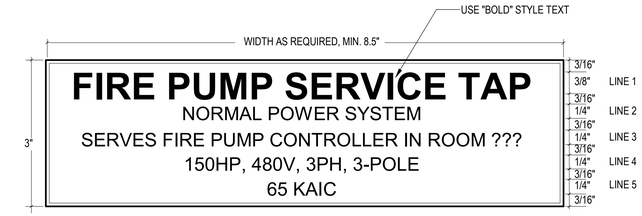
SCALE: NONE

6



3 ADA MOUNTING HEIGHTS

SCALE: NONE



NOTES

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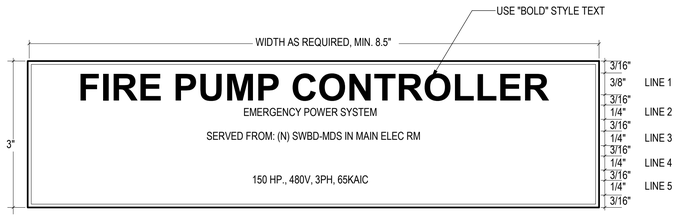
2. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS. REPLACE QUESTION MARKS WITH CORRECT NUMBERS.
3. CENTER ALL TEXT HORIZONTALLY
4. THIS DETAIL APPLIES TO ALL FIRE PUMPS

4 FIRE PUMP NORMAL SOURCE NAMEPLATE

SCALE: NONE



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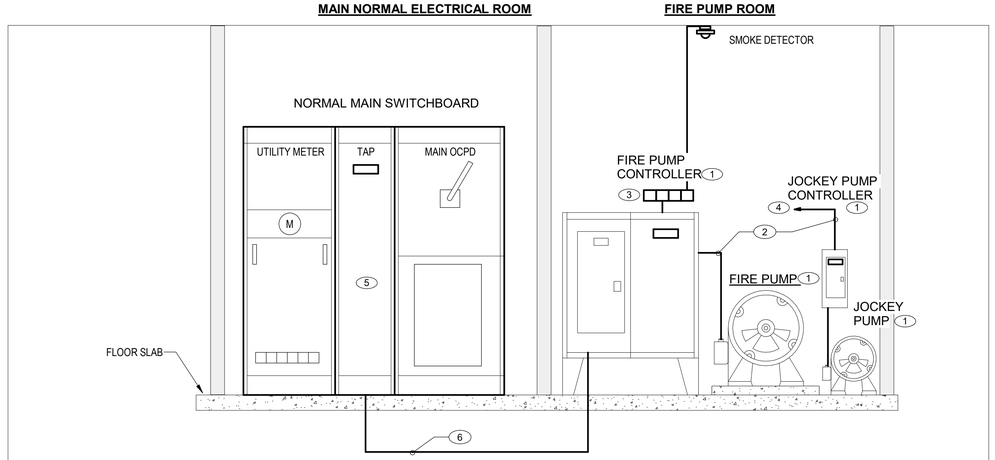
4. THIS DETAIL APPLIES TO ALL FIRE PUMPS

2 FIRE PUMP CONTROLLER NAMEPLATE

SCALE: NONE



NOTES:

1. FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER ARE PROVIDED BY OTHERS AND INSTALLED AND CONNECTED BY DIVISION 26. FIRE PUMP AND JOCKEY PUMP ARE PROVIDED AND INSTALLED BY OTHERS AND CONNECTED BY DIVISION 26.
2. PROVIDE STANDARD EMT WIRING PER SINGLE LINE DIAGRAM AND FEEDER SCHEDULE FOR WIRING INSIDE THE FIRE PUMP ROOM.
3. PROVIDE FIRE ALARM SYSTEM MONITOR MODULES FOR THE FOLLOWING POINTS PER NFPA-2013, 10.4.7:
   A. PUMP RUNNING
   B. LOSS OF PHASE
   C. PHASE REVERSAL
   D. CONNECTED TO ALTERNATE SOURCE
4. CONNECT TO NORMAL POWER. REFER TO FLOOR PLAN FOR CIRCUITING.
5. DEDICATED VERTICAL SECTION FOR NORMAL POWER TAP, AHEAD OF MAIN BREAKER, PER NEC 230.82 & 695.3.(A).(1)
6. CONCRETE ENCASED OR CONSIDERED "ROUTED OUTSIDE" NORMAL FEEDER FROM A TAP CONNECTION PER NEC 230.6 & 695.6(C).

1 DIAGRAMMATIC ELECTRIC FIRE PUMP INSTALLATION

SCALE: NONE

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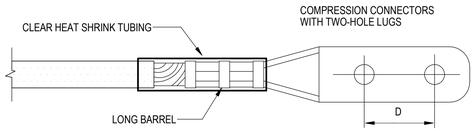
ELECTRICAL DETAILS

Sheet Name

E903

Sheet

SUBMITTED 2/26/21



TWO-HOLE, LONG BARREL LUG SCHEDULE								
T & B					BURNDY			
WIRE SIZE	CATALOG NO.	D	BOLT SIZE	NO. OF CRIMPS	CATALOG NO.	G	HOLE SIZE	NO. OF CRIMPS
NO. 6 AWG	-	-	-	-	YA6C-2N	1-3/4"	1/2"	2
NO. 4 AWG	-	-	-	-	YA4C-2N			
NO. 2 AWG	54856BE	3/4"	1/4"	2	YA2C-2N	1-3/4"	1/2"	2
NO. 1 AWG	54812BE		1/4"		YA1C-2N			
1/0 AWG	54813BE		5/16"		YA25-2N			
2/0 AWG	54862BE-PH	1-3/4"	1/2"	2	YA26-2N	1-3/4"	1/2"	2
3/0 AWG	54864BE-PH				YAZ27-2N			
4/0 AWG	54866BE-PH				YAZ28-2N			
250 MCM	54868BE-PH				YAZ29-2N			
350 MCM	54872BE-PH	1-3/4"	1/2"	4	YAZ31-2N	1-3/4"	1/2"	4
500 MCM	54876BE-PH				YAZ34-2N			
750 MCM	54880BE-PH				YAZ39-2N			

GENERAL NOTES

A. TYPICAL FOR ALL GROUND BAR TERMINATIONS AND POWER TERMINATIONS FOR #6 AWG AND LARGER EXCEPT INTEGRAL CIRCUIT BREAKER LUGS MAY BE MECHANICAL TYPE.

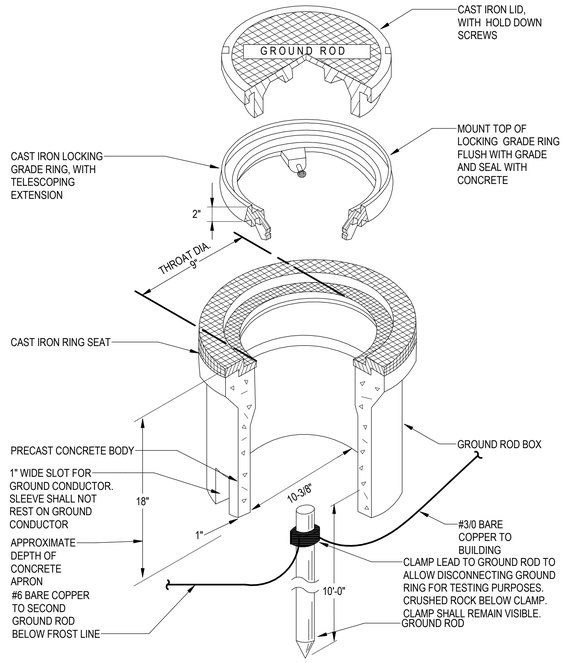
B. PROVIDE CLEAR HEAT SHRINK TUBING OVER CRIMP PORTION OF LUG.

C. USE 12-15 TON RATED CRIMPING TOOL WITH DIES MADE BY MANUFACTURER OF LUGS .

D. ALL LUGS MUST BE LONG BARREL, 2-HOLE TYPE WITH CONDUCTOR VIEWING WINDOW OPTION ON SIZES #2/0 AND LARGER;

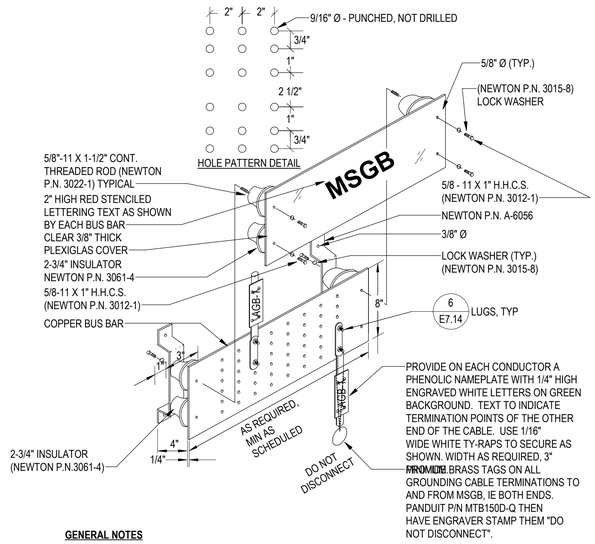
4 POWER & GROUNDING TERMINATIONS

SCALE: NONE



3 GROUND ROD TEST WELL

SCALE: NONE



GENERAL NOTES

A. BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 2-3/4" INSULATOR (NEWTON P.N. 3061-4) SUPPORT.

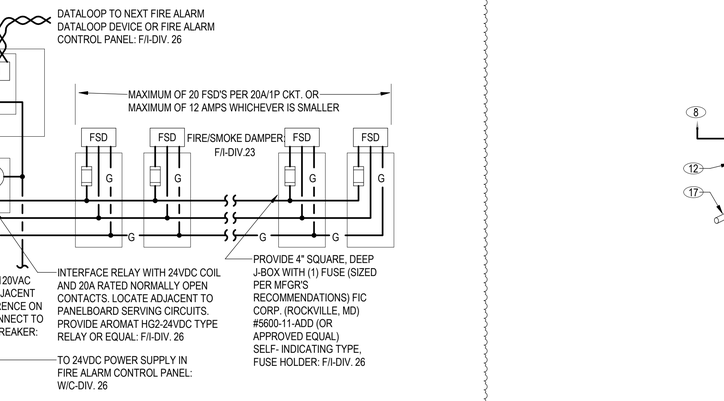
B. MOUNT AT HEIGHT SCHEDULED ON GROUNDING DIAGRAMS, E6 SERIES.

C. COORDINATE WITH ARCHITECT TO PROVIDE METAL BACKING BEHIND SHEET ROCK WALLS.

D. TERMINATE CONDUCTORS COMING FROM ABOVE ON TOP THREE ROWS OF HOLES AND USE BOTTOM THREE ROWS FOR CONDUCTORS COMING FROM BELOW.

2 MSGB & AGB GROUND BAR INSTALLATION

SCALE: NONE



NOTES

A. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL CONSTRUCTION DOCUMENTS FOR EXACT LOCATION AND QUANTITY OF FIRE/ SMOKE DAMPERS.

B. PROVIDE CONNECTION TO EACH FSD. PROVIDE SEPARATE CIRCUIT FOR FSD'S ON EACH FLOOR, I.E., DO NOT CONNECT FSD'S ON DIFFERENT FLOORS TO SAME CIRCUIT.

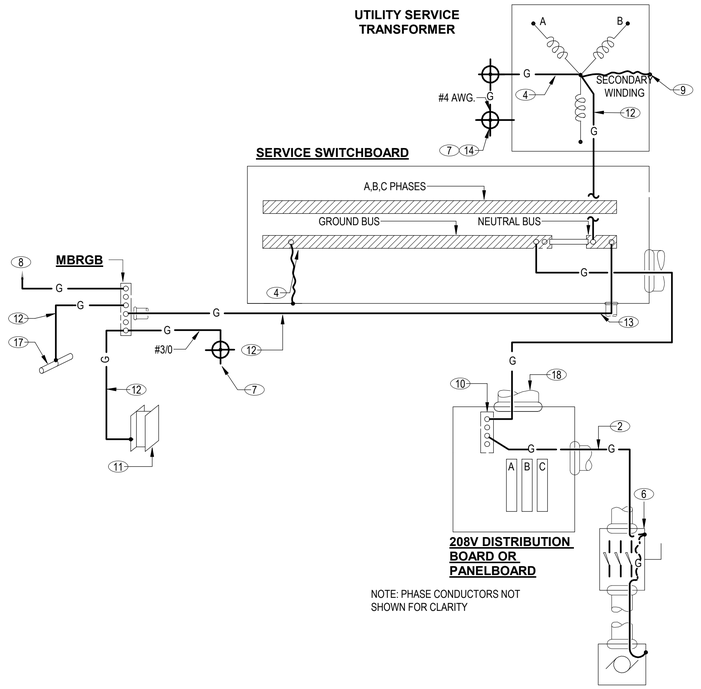
C. SHOW BRANCH CIRCUITING AND PANEL/ CIRCUIT DESIGNATIONS ON RECORD DRAWINGS.

D. UPDATE PANEL SCHEDULE LOADS AND DESCRIPTIONS BASED ON ACTUAL CIRCUITS USED.

E. FIRE ALARM CONTRACTOR TO DETERMINE MAXIMUM NUMBER OF INTERFACE RELAYS PER EACH 24VDC CIRCUIT.

5 FIRE SMOKE DAMPERS (FSD)

SCALE: NONE



NOTE: PHASE CONDUCTORS NOT SHOWN FOR CLARITY

NOTES

1. ALL EQUIPMENT GROUNDING CONDUCTORS FOR RECEPTACLE BRANCH CIRCUITS SHALL BE SIZED PER N.E.C. TABLE 250.122. MULTIPLE BRANCH CIRCUITS IN EACH HOMERUNS SHALL USE ONLY ONE EQUIPMENT GROUNDING CONDUCTOR, UON.
2. SIZE EQUIPMENT GROUNDING CONDUCTORS FOR FEEDER CIRCUITS PER FEEDER SCHEDULE OR IF NOT SHOWN PER N.E.C. TABLE 250.122.
3. ROUTE ONE COPPER GROUNDING ELECTRODE CONDUCTOR, SIZED PER N.E.C. TABLE 250.66, IN CONDUIT TO GROUNDING ELECTRODES SHOWN.
4. UTILITY SERVICE GROUNDING SHALL BE IN ACCORDANCE WITH N.E.C. 250.24(A).
5. TYPICAL RECEPTACLE WITH EQUIPMENT GROUNDING CONDUCTOR. GROUND PER N.E.C. 250.146.
6. CONNECT EQUIPMENT GROUNDING CONDUCTORS TO GROUND LUG BONDED TO THE ENCLOSURE.
7. GROUND ROD OR OTHER MADE ELECTRODES PER N.E.C. 250.52.56 AND AS SHOWN ON DRAWINGS AND SPECIFICATIONS. PROVIDE 10'-0" MINIMUM BETWEEN RODS.
8. GROUND CONNECTION TO COMMUNICATION BACKBOARDS, ETC. REFER TO EACH SYSTEM FOR SIZE AND QUANTITY. PROVIDE #6 AWG. MIN. U.O.N.
9. MAIN BONDING JUMPER: SIZE PER N.E.C. 250-30(A)(1) AND TABLE 250-66.
10. EQUIPMENT COPPER GROUNDING BAR BONDED TO ENCLOSURE.
11. NEAREST EFFECTIVELY GROUNDED BUILDING STEEL.
12. GROUNDING ELECTRODE COPPER CONDUCTOR: #4/0 AWG, U.O.N.
13. EQUIPMENT BONDING JUMPER PER N.E.C. 250.28(C), 250.102(B), 250.92 AND TABLE 250.66.
14. CONNECT TO MAIN BUILDING REFERENCE GROUND BUS IF IN SAME ROOM.
15. GROUNDED CONDUCTOR (NEUTRAL) BROUGHT TO SERVICE EQUIPMENT PER N.E.C. 250.24(b).
16. MAIN BUILDING REFERENCE GROUND BUS. REFER TO SPECIFICATIONS AND DETAIL NOTED.
17. COLD WATER PIPE PER N.E.C.250.52(A)(1).

BOND PARALLEL METALLIC CONDUITS TOGETHER USING GROUNDING BUSHINGS AND ONE GROUNDING CONDUCTOR IDENTICAL IN SIZE TO GROUNDING CONDUCTOR IN EACH OF THE PARALLEL CONDUIT RUNS.

1 ELECTRICAL DISTRIBUTION SYSTEM GROUNDING SCHEMATIC

SCALE: NONE

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1	ADDENDUM 2	2018-03-30
6	ASI 03	2021-02-02

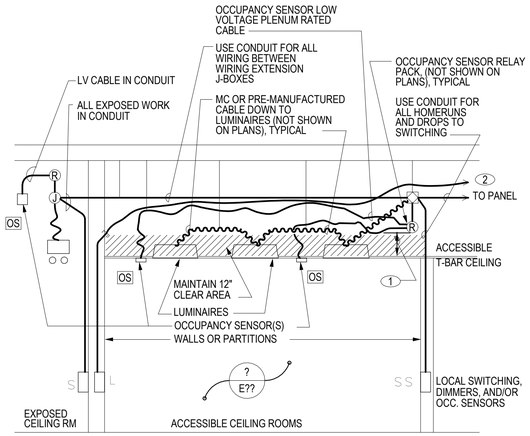
ELECTRICAL DETAILS

Sheet Name

E904

Sheet

SUBMITTED 2/26/21



GENERAL NOTES

A. SUPPORT ALL MC AND PRE-MANUFACTURED CABLES, J-BOXES, WIRING EXTENSION J-BOXES AND LOW VOLTAGE CABLES 12" CLEAR OF SUSPENDED CEILINGS WITH CADDY CLIPS ON DEDICATED SUPPORT WIRES OR THREADED RODS; ROUTE CABLES PARALLEL TO BUILDING LINES.

B. USE CONDUIT AND WIRE IN LIEU OF MC OR PRE-MANUFACTURED CABLE IN ROOMS WITH "HARD" CEILINGS.

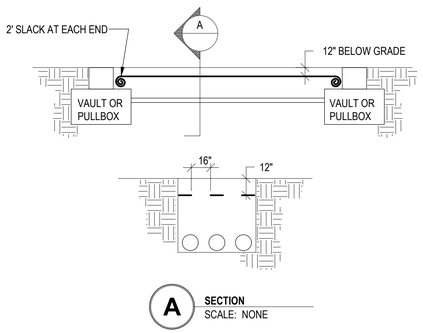
NOTES

(1) MOUNT RELAY FROM 12" TO A MAXIMUM OF 24" ABOVE CEILING TILE DIRECTLY ABOVE LOCAL SWITCHING CONTROLS.

(2) LOW VOLTAGE PLENUM RATED CABLE TO LCP FROM LOW VOLTAGE RELAY SWITCHES. USE CONDUIT DOWN INSIDE WALLS TO SWITCHES.

4 LIGHTING SYSTEM WIRING LIGHTING - AUTOMATIC CONTROL BYPASS

SCALE: NONE



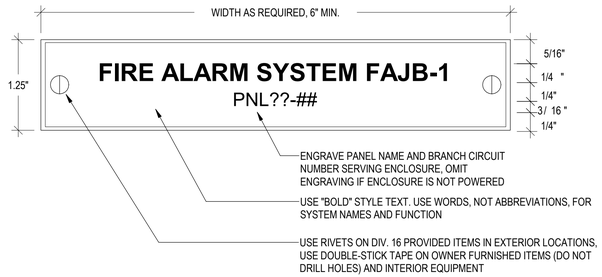
A SECTION
SCALE: NONE

NOTES:

1. PROVIDE TAPE SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES.
2. TAPE SHALL BE POLYETHYLENE FILM, 6 INCHES WIDE, 0.004 INCHES THICK, AND A MINIMUM STRENGTH OF 1,750 PSI.
3. TAPE SHALL CARRY CONTINUOUS INSCRIPTION NAMING THE SPECIFIC UTILITY. COLOR SHALL BE: ELECTRIC - RED PHONE & SIGNAL - ORANGE.
4. TAPE SHALL HAVE FOIL BACKING OR WIRES SUFFICIENT FOR DETECTION BY METAL DETECTOR TO A DEPTH OF 5 FEET.
5. TAPE SHALL BE PLACED IN PARALLEL RUNS WITH ONE STRIP ON EACH SIDE OF TRENCH AND STRIPS NO GREATER THAN 18" ON CENTER ACROSS WIDTH OF TRENCH.
6. TAPE TO BE RUN CONTINUOUS FROM MANHOLE TO MANHOLE AND HAVE 2 FEET SLACK ROLLED UP AT EACH END. RECORD LOCATION ON AS-BUILT DRAWINGS.
7. TAPE SHALL BE A MIN. OF 12" ABOVE CONDUITS.

2 UNDERGROUND UTILITIES WARNING TAPE

SCALE: NONE

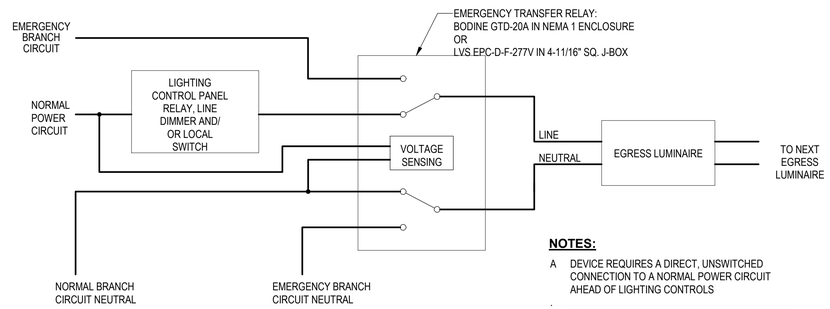


NOTES:

1. REFER TO SPECIFIACTIONS FOR FOR ADDITIONAL INFORMATION AND COLORS FOR DIFFERENT SYSTEMS.
2. PROVIDE ONE NAMEPLATE FOR EACH ENCLOSURE OR J-BOX LARGER THAN 4"
3. CENTER ALL TEXT HORIZONTALLY AND VERTICALLY IF ONLY ONE LINE.
4. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIRED TO MATCH EQUIPMENT SPECIFICATIONS.

5 ENCLOSURE INDENTIFICATION NAMEPLATES

SCALE: NONE



NOTES:

A DEVICE REQUIRES A DIRECT, UNSWITCHED CONNECTION TO A NORMAL POWER CIRCUIT AHEAD OF LIGHTING CONTROLS

B DEVICE REQUIRES UNSWITCHED CONNECTION TO EMERGENCY CIRCUIT.

C. DURING NORMAL OPERATION, LIGHTING LOAD IS POWERED AND/OR CONTROLLED VIA LIGHTING CONTROLS (SWITCHES, DIMMERS OR LCP RELAYS) ON THE PRIMARY SOURCE.

D. DURING EMERGENCY OPERATION, I.E. LOSS OF PRIMARY MONITORED CIRCUIT, THE LIGHTING LOAD (HOT AND NEUTRAL) IS TRANSFERRED TO THE SECONDARY SOURCE.

CIRCUIT NAMING CONVENTION

1a/2/(1)

- UNCONTROLLED PRIMARY POWER MONITORED CIRCUIT
- EMERGENCY OPERATION: LUMINAIRES TRANSFERRED TO THIS SECONDARY CIRCUIT
- NORMAL OPERATION: LUMINAIRES CONTROLLED BY THIS PRIMARY SOURCE SWITCHED CIRCUIT

3 CONTROLLED EMERGENCY EGRESS LIGHTING - AUTOMATIC TRANSFER RELAY

SCALE: NONE

ROOM TYPE	CONTROL TYPE							
	PHOTOCELL (AS APLICABLE)	OCCUPANCY SENSOR			ZONE CONTROL	WALLSTATIONS	UL924 EMERGENCY DEVICES	REMARKS
		ON OPERATION	OFF OPERATION	TIMEOUT				
LIGHTING								
COMMON AREAS	30FC	AUTOMATIC ON @ 100% OUTPUT	OCCUPANCY OFF @ 25% OUTPUT	30 MIN MAXIMUM	REFER TO PLANS FOR KEYED ZONING BY LOWERCASE LETTER	ALL ZONES DIMMED VIA 0-10V CONNECTION.	REFER TO PLANS FOR KEYED ZONING BY LOWERCASE LETTER FOR NORMAL OPERATION. 100% OUTPUT UPON LOSS OF NORMAL POWER.	-
CORRIDORS	20FC							

NOTES:

1. EC TO PROVIDE ALL STARTUP REQUIRED TO ASSURE EQUIPMENTS PERFORMS TO SEQUENCE OF OPERATIONS AS NOTED HEREIN. CONFIRM ADDITIONAL CONTROL PROGRAMMING REQUIREMENTS WITH OWNER AS APPLICABLE.
2. ROOM TYPES INDICATED HEREIN ARE INTENDED TO MATCH ALL INCLUDED ROOM TYPES.
3. NOTIFY ARCHITECT / ENGINEER / OWNER IF ANY ADDITIONAL CLARIFICATION IS REQUIRED PRIOR TO STARTUP.

1 LIGHTING CONTROL SYSTEM - SEQUENCE OF OPERATION

SCALE: NONE

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1	ADDENDUM 2	2018-03-30
6	ASI 03	2021-02-02

ELECTRICAL DETAILS

Sheet Name

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