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x1001	2152 2ND FLOOR

## BUILDING AND SITE DATA

<b>OCCUPANCY</b>	MUR-45
<b>CONSTRUCTION TYPE</b>	Type V-A Sprinklered NFPA13
<b>PROPOSED SITE &amp; BUILDING CONSTRUCTION</b>	
<b>SITE AREA</b>	9,744 SF
<b>BUILDING COVERAGE</b>	7,224 SF
<b>LANDSCAPE AREA</b>	1,476 SF
<b>NUMBER OF UNITS</b>	21 TYPE B, 1 TYPE A - TOTAL = 22
<b>PARKING REQUIRED</b>	19 1-BEDROOM UNITS X .75 = 11.25 3 2-BEDROOM UNITS X 1.5 = 4.5 TOTAL = 15.75 (16)
<b>PARKING PROVIDED</b>	9 STANDARD, 9 COMPACT, 1 ACCESSIBLE - TOTAL = 19
<b>OPEN SPACE REQUIRED</b>	19 1-BEDROOM UNITS X 100 = 1,900 3 2-BEDROOM UNITS X 130 = 390 TOTAL = 2,290 SQ. FT.
<b>OPEN SPACE PROVIDED PROVIDED</b>	9 STANDARD, 9 COMPACT, 1 ADA - TOTAL = 19
<b>Project Data:</b>	
Current Zone:	MUR-45'
Comp Plan Designation:	SA 2
Building Height / Stories:	45' / 4
SEPA Required:	No
Construction Type:	V-A
Occupancies:	R-2/ S-2
Seismic Design Category:	D
Risk Category:	II
Site Class:	D
Wind Speed / Exposure:	110 mph /B
Soil Bearing Capacity:	Verify
Sprinklers Required:	YES
Fire Alarm Required:	YES

## CODE SUMMARY

Shoreline Municipal Code (SMC)  
 Shoreline Comprehensive Plan (SCP)  
 City of Shoreline Engineering Development Manual  
 2012 Department of Ecology Stormwater Management Manual for Western Washington  
 2015 International Building Code (IBC) with Washington State Amendments  
 ICC/ANSI A117.1-2009 Accessibility Requirements with Washington State Amendments  
 2015 International Mechanical Code (IMC) with Washington State Amendments  
 2015 International Fuel Gas Code (IFGC) with Washington State Amendments  
 2015 International Energy Conservation Code with Washington State Amendments (WSEC)  
 2015 Uniform Plumbing Code (UPC) with Washington State Amendments  
 2015 International Fire Code (IFC) with Shoreline and Washington State Amendments



## PROJECT TEAM

<b>OWNER:</b>	<b>DESIGN ARCHITECT:</b>	<b>CONSULTANT DESIGNER:</b>	<b>LANDSCAPE :</b>
TP HOMES, LLC 5936 NE 3RD CT RENTON, WA 98059 (425) 282-7082 EMAIL: TPHOME.LLC@YAHOO.COM CONTACT: VINH QUANG	Dale Sweeney Architect 5715 143rd Place SE Bellevue, WA 98006 425-260-8969 Dale Sweeney dale.design3d@gmail.com	COLLINS PLANNING AND DESIGN, LLC 1122 HARDING ST ENUMCLAW, WA 98022 206-430-273 TIMOTHY COLLINS TIMOTHY@COLLINS.PD.COM	Archsoft Consultants <b>George Braslaw</b> Architect / Landscape Architect AIA, CSI Gbraslaw@archsoft.net (425) 820-0840
<b>STRUCTURAL :</b>	<b>CIVIL :</b>	<b>SURVEYOR</b>	<b>MECHANICAL, ELECTRICAL and PLUMBING :</b>
MC Squared Inc 1235 East 4th Ave Suite 101 Olympia, WA 360-754-9339 Michael Szramek, PE SE mike@mc2-inc.com	PBG, LLC 5130 S. 166TH LANE SEATAC, WA 98188 (206) 446-1292 EMAIL: PBG.ENGR@YAHOO.COM CONTACT: HAN PHAN, P.E.	TOUMA ENGINEERS & LAND SURVEYORS, PLLC 225 SW 41ST STREET RENTON WA 98057 (425) 251-0665 EMAIL: TOUMAENGINEERING@GMAIL.COM CONTACT: DAN TOUMA, PLS	Robison Engineering Inc. 19401 40th Avenue W, Suite 302 Lynnwood, WA 98036 T 206.384.3343 C 206.601-9564 http://www.robisonengineering.com Mechanical (primary contact) Jacob O'Brien jobrien@robisonengineering.com Plumbing David Phillips dphillips@robisonengineering.com Electrical Salvador Escalona sescalona@robisonengineering.com

## PARCEL INFORMATION

Parcel Numbers for the project is: 370590-0032

LEGAL DESCRIPTION  
 THE NORTH 121 FEET OF TRACT 6 OF JERSEY SUMMER HOMES, AS PER PLAT RECORDED IN VOLUME 21 OF PLATS, PAGE 96, RECORDS OF KING COUNTY,

EXCEPT THE EAST 64.5 FEET THEROF.

SITUATE IN THE CITY OF SHORELINE, COUNTY OF KING, STATE OF WASHINGTON.

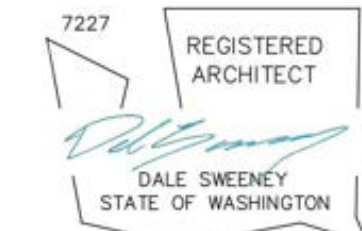
## PROJECT DESCRIPTION

CONSTRUCTION OF A NEW 22 UNIT APARTMENT BUILDING WITH PARKING ON THE AT GRADE LEVEL .

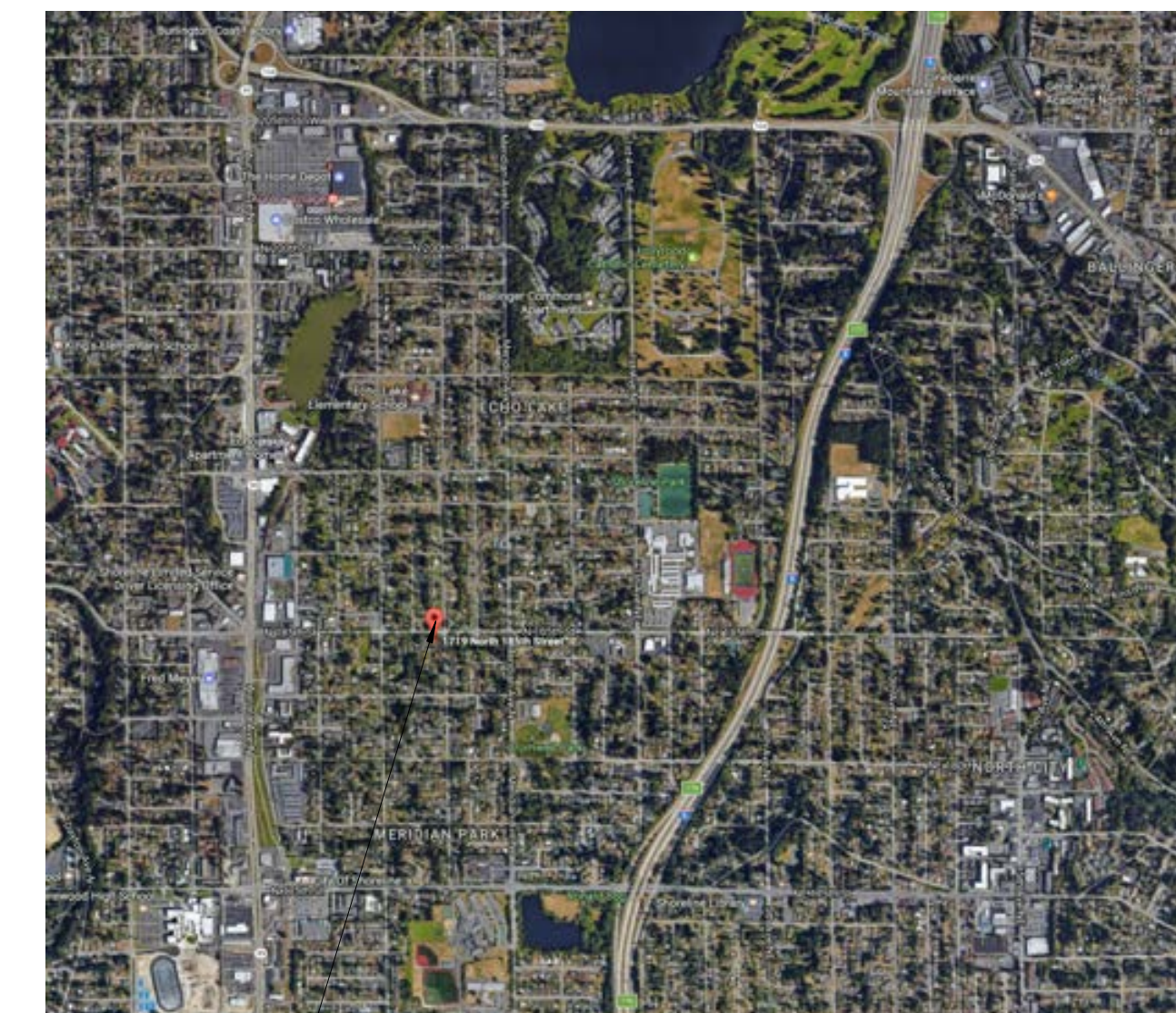
## JOB ADDRESS

2152 N 185th STREET, SHORELINE, WA 98133

THE UNDERSIGNED HAS PROVIDED BUILDING ENCLOSURE DOCUMENTS THAT IN MY PROFESSIONAL JUDGEMENT ARE APPROPRIATE TO SATISFY THE REQUIREMENTS OF RCW 64.55.005 THROUGH 64.55.090.



## VINCINITY MAP



PROJECT LOCATION

Dale Sweeney ARCHITECT

JOB NO. SHRLM-001  
DATE: 6/26/2017  
DWN BY: Author  
CHKD BY: Checker  
RVS'D:

REVISIONS  
NO. DATE Revision Description  
1 9/8/19 City Comments

TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.

COVER SHEET

SHEET NO.  
A000

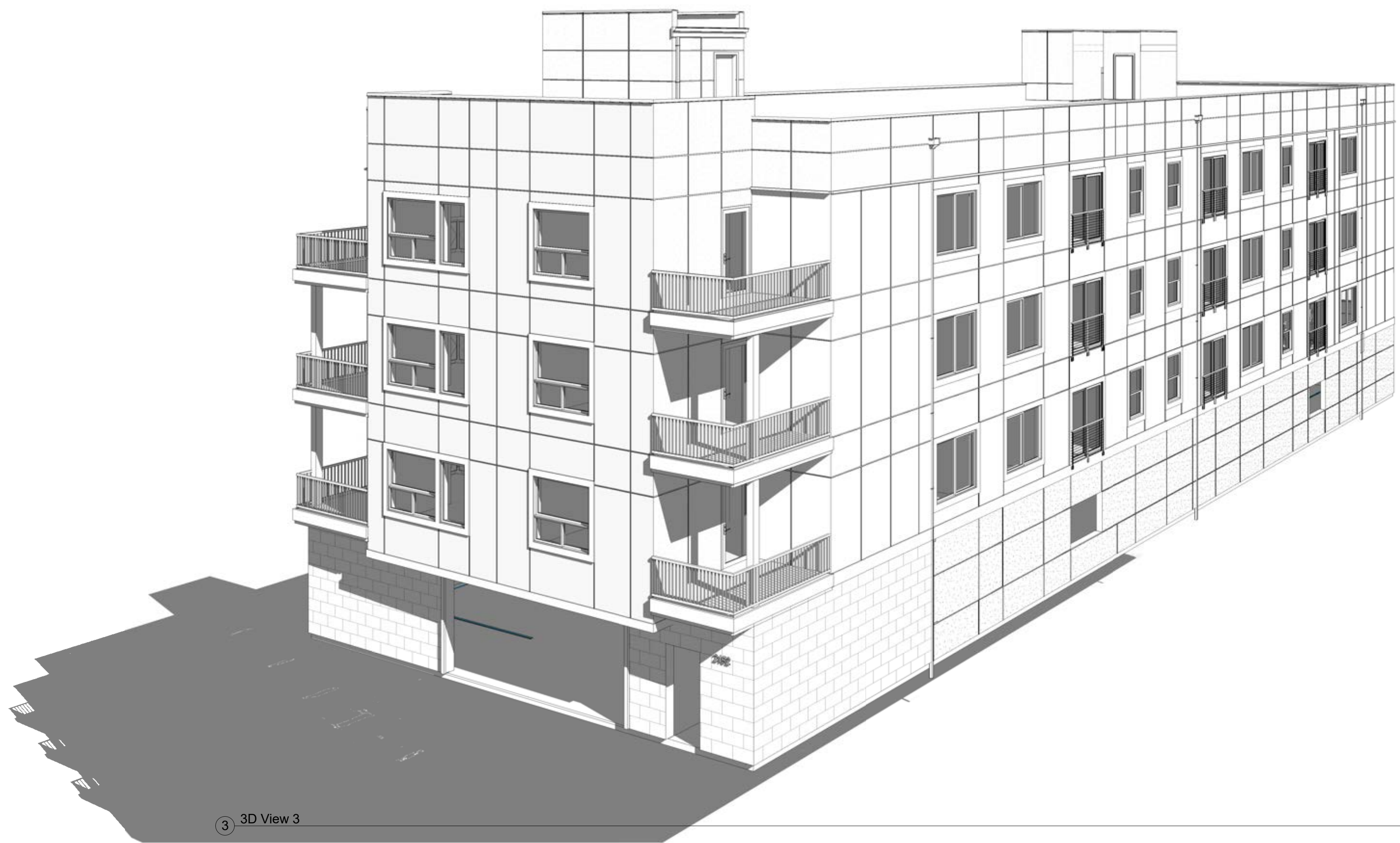
PRINT DATE:  
2/15/2021 12:45:49 PM



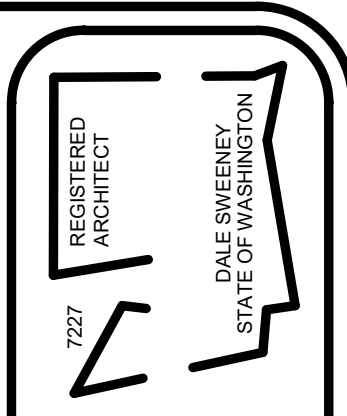
① 3D View 1



② 3D View 2



③ 3D View 3



**Dale Sweeney**  
 ARCHITECT  
 5715 143rd Place SE  
 Bellevue, WA 98006

JOB NO: SHRLN-001  
 DATE: 6/26/2017  
 DWG BY: Author  
 CHKD BY: Checker  
 RVS'D: Checker

NO.	DATE	REVISIONS Revision Description

**TP HOME 22 UNIT APTS.**  
 2152  
 TP Home LLC  
 2152 N 185TH ST.

3D Views

PRINT DATE:  
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SHEET NO.  
**A001**



**GENERAL NOTES**

1 : 1

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODES, 2015 U.P.C., THE 2015 W.S.E.C., THE 2017 W.N.E.C., WITH WASHINGTON STATE AMENDMENTS TO ALL, ALONG WITH THE 2015 I.B.C. WASHINGTON STATE HAS ADOPTED THE ICC/ANSI A 117.1 (2009) ACCESSIBILITY CODE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE BUILDING AND SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
4. ALL OPERATIONS CONDUCTED ON THE PREMISES SHALL NOT BE OBJECTIONABLE BEYOND THE PROPERTY BOUNDARY LINES BY REASON OF NOISE, STEAM, ODOR, FUMES, GASES, SMOKE, VIBRATION, HAZARD, OR OTHER CAUSES.
5. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES AND ALL AREAS SHALL BE LEFT IN A "BROOM-CLEAN" CONDITION AT ALL TIMES.
6. THE CONTRACTOR SHALL SECURE SUCH PERMITS AS REQUIRED BY THE LOCAL FIRE DEPARTMENT PRIOR TO BUILDING OCCUPATION.
7. ALL EXTERIOR BUILDING SIGNAGE SHALL BE UNDER SEPARATE PERMIT.
8. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, DETAILS, ETC., AND NOTIFY THE Designer OF ANY AND ALL DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AS ADEQUATE FOR THE PROPER COMPLETION OF THE WORK DETAILED HEREIN.
9. EXISTING DETAILS, ELEVATIONS, AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF CONDITIONS OR DETAILS DIFFER FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE Designer IMMEDIATELY SO THAT APPROPRIATE MODIFICATIONS CAN BE MADE BEFORE PROCEEDING.
10. THERE SHALL BE NO DEVIATIONS WHATSOEVER FROM THE CONTRACT DOCUMENTS WITHOUT THE Designer's WRITTEN APPROVAL THEREOF. THE CONTRACTOR AGREES TO DEFEND, INDEMNIFY, AND HOLD THE Designer HARMLESS FOR ANY CLAIMS ARISING AS A RESULT OF UNAPPROVED CHANGES.
11. THE APPROVED PLANS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY ANY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES WHICH ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
12. SEE STRUCTURAL GENERAL NOTES REGARDING: LUMBER, NAILING, CONCRETE, REINFORCING, AND STRUCTURAL STEEL.
13. ALL ITEMS MARKED "N.I.C." (NOT IN CONTRACT) OR "O.F.O.I." (OWNER FURNISHED, OWNER INSTALLED) ARE TO BE CONSIDERED AS NOT PART OF THIS CONTRACT UNLESS OTHERWISE NOTED.
14. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. THE CONTRACTOR SHALL NOTIFY THE Designer IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
15. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMN, FACE OF STUD, OR FACE OF CMU UNLESS OTHERWISE NOTED.
16. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
17. ALL WORK SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATION OR WRITTEN DIRECTIONS.
18. FIRE EXTINGUISHERS: VERIFY REQUIREMENTS AND LOCATIONS WITH FIRE MARSHALL.
19. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

EXCEPTION: THIS REQUIREMENT SHALL NOT APPLY TO THE MAIN EXTERIOR EXIT DOORS IF THERE IS A READILY VISIBLE, DURABLE SIGN MOUNTED ON OR ADJACENT TO THE DOOR WHICH STATES "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND. THE LOCKING DEVICE MUST BE A TYPE THAT WILL BE READILY DISTINGUISHABLE AS LOCKED.

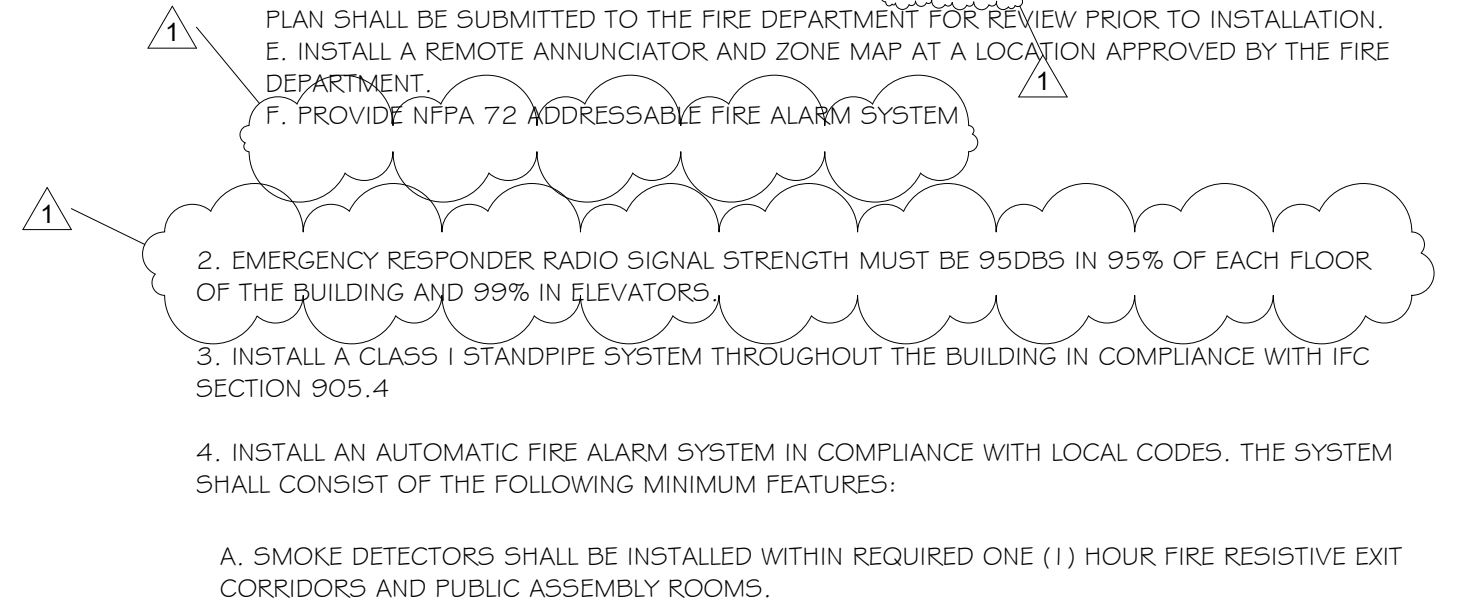
20. EXIT DOORS, EXIT LIGHTS, AND FIRE EXTINGUISHER LOCATIONS SHALL NOT BE CONCEALED OR OBSTRUCTED BY ANY DECORATIVE MATERIAL, DECOR OR FURNISHINGS.
21. MINIMUM FLAME SPREAD CLASSIFICATION OF INTERIOR FINISHES SHALL BE PER TABLE 42-B OF THE I.F.C.
22. ALL GLASS AND GLAZING SHALL COMPLY WITH CHAPTER 24 OF THE I.B.C. AND THE U.S. PRODUCT SAFETY COMMISSION: SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS (42 FR 1426; 16 CFR PART 1201)
23. INSTALL THE ASSIGNED BUILDING NUMBER ON THE STRUCTURE THAT IS CLEARLY VISIBLE FROM THE STREET. NUMBERS SHALL CLEARLY CONTRAST WITH THEIR BACKGROUND IN COLOR. IFC 905.1
24. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR INSTRUCTIONS REGARDING GRADING AND TRENCHING PRIOR TO CONTINUATION OF WORK SHOULD ANY UNUSUAL SUBSURFACE CONDITIONS BECOME APPARENT DURING GRADING FOR FOUNDATION CONSTRUCTION.
25. WATER HEATER SIZES AND LOCATIONS SHALL BE PROVIDED BY THE PLUMBING SUB-CRONTACTOR. SAID UNITS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF ASHRAE 90-75 AND SHALL BE VENTED TO THE EXTERIOR IF GAS.
26. LATHING, PLASTER, AND GYPSUM WALL BOARD SYSTEM SHALL CONFORM TO CHAPTER 23 OF THE I.B.C.
27. ALL FOUNDATION AND FOOTINGS ARE TO REST ON UNDISTURBED EARTH AND AS NOTED IN THE STRUCTURAL GENERAL NOTES. IF CONTRARY CONDITIONS OCCUR, NOTIFY THE ARCHITECT.
28. FINISH FLOOR, TOP OF CONCRETE SUB, DATUM = +0.00.
29. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED
30. REFLECTED CEILING PLANS ARE FOR THE GENERAL INFORMATION OF THE CONTRACTOR. EXACT LOCATIONS OF LIGHTING FIXTURES AND CEILING MATERIALS SHOULD BE VERIFIED PRIOR TO INSTALLATION.
31. PROVIDE SEISMIC BRACING FOR SUSPENDED ACOUSTICAL CEILING @ 1/2" OC BOTH WAYS PER I.B.C. STANDARDS 25-2.
32. EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS, AND ROOF AND OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS, FLOORS, AND DOORS, AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER-STRIPPED TO LIMIT AIR LEAKAGE AND ELIMINATE WATER PENETRATION.
33. ALL TEARS AND JOINTS IN BATT INSULATIONS TO BE SEALED WITH TAPE.
34. PLUMBING, ELECTRICAL, AND H.V.A.C. SYSTEMS ARE BIDDER-DESIGNED AND COVERED UNDER SEPARATE PERMIT. CONTRACTOR SHALL SUBMIT BIDDER-DESIGN DRAWINGS TO Designer FOR REVIEW PRIOR TO
35. ALL GENERAL NOTES HEREIN APPLY TO ALL DRAWING SHEETS IN THEIR ENTIRETY AS IF FULLY REPRINTED ON EACH SHEET. ALL GENERAL NOTES APPLY TO ALL SECTIONS OF THE WORK HEREIN DEPICTED FOR THIS PROJECT. NO ALLOWANCE WILL BE MADE FOR THE GENERAL CONTRACTORS (OR THEIR SUBCONTRACTORS') FAILURE TO READ THESE NOTES AND APPLY THEM TO ALL PORTIONS OF THE WORK DETAILED HEREIN.
36. EXACT LOCATIONS, DIMENSIONS AND UTILITY REQUIREMENTS OF ALL EQUIPMENT SHOWN SHALL BE AS INDICATED ON DRAWINGS PROVIDED BY OTHERS. INFORM THE Designer IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS ENCOUNTERED.
37. INSTALLATION OF FIXTURES AND CASEWORK INDICATED HEREIN SHALL NOT, IN ANY WAY, CONFLICT WITH THE REQUIREMENTS OF THE I.B.C. OR OTHER SUCH BUILDING CODES OR STANDARDS THAT MIGHT APPLY.
38. SINKS INDICATED IN THESE DRAWINGS ARE FOR GENERAL INFORMATION AND HEALTH DEPARTMENT INFORMATION. FINAL LOCATION OF ALL PLUMBING FIXTURES SHALL BE PER APPROVED PLUMBING PLANS FROM THE LOCAL BUILDING OFFICIAL.
39. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDING PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING.

**EMERGENCY LIGHTING.**

1. INSTALL ILLUMINATED EMERGENCY LIGHTING THROUGHOUT THE BUILDING IN COMPLIANCE WITH IBC 1006
2. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE (1 LUX) AT THE WALKING SURFACE LEVEL.
3. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:
  - CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
  - EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
  - INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1024.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
  - EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1006.1.5, FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
4. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.
5. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (1 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.

**FIRE CODE NOTES**

1. AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT THE BUILDING. THE SYSTEM SHALL INCLUDE THE FOLLOWING MINIMUM FEATURES:
  - A. THE SYSTEM SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH **NFPA 13** WITH DRY PIPES IN NON-HEATED SPACES. PLANS AND HYDRAULIC CALCULATIONS SHALL BE REVIEWED, APPROVED AND STAMPED BY A REGISTERED FIRE PROTECTION ENGINEER VERIFYING COMPLIANCE.
  - B. INSTALL A REMOTE SHUT-OFF VALVE (PIV) AND FIRE DEPARTMENT CONNECTION (FDC). THE FIRE DEPARTMENT CONNECTION SHALL BE LOCATED WITHIN 90 FEET OF A FIRE HYDRANT.
  - C. ALL SHUT-OFF VALVES, WATER FLOW AND PRESSURE SWITCHES SHALL BE ELECTRONICALLY SUPERVISED BY A FIRE ALARM PANEL IN ACCORDANCE WITH NFPA 72. SIGNALS FROM THE PANEL SHALL BE TRANSMITTED DIRECTLY TO AN APPROVED MONITORING STATION.
  - D. INSTALL APPROVED ADA HORNSTROBES IN ACCORDANCE WITH CITY STANDARDS THROUGHOUT THE BUILDING IN COMPLIANCE WITH SHORELINE ADMINISTRATIVE CODE. A FLOOR PLAN SHALL BE SUBMITTED TO THE FIRE DEPARTMENT FOR REVIEW PRIOR TO INSTALLATION.
  - E. INSTALL A REMOTE ANNUNCIATOR AND ZONE MAP AT A LOCATION APPROVED BY THE FIRE DEPARTMENT.
  - F. PROVIDE NFPA 72 ADDRESSABLE FIRE ALARM SYSTEM
2. EMERGENCY RESPONDER RADIO SIGNAL STRENGTH MUST BE 95DBS IN 95% OF EACH FLOOR OF THE BUILDING AND 99% IN ELEVATORS
3. INSTALL A CLASS 1 STANDPIPE SYSTEM THROUGHOUT THE BUILDING IN COMPLIANCE WITH IFC SECTION 905.4
4. INSTALL AN AUTOMATIC FIRE ALARM SYSTEM IN COMPLIANCE WITH LOCAL CODES. THE SYSTEM SHALL CONSIST OF THE FOLLOWING MINIMUM FEATURES:
  - A. SMOKE DETECTORS SHALL BE INSTALLED WITHIN REQUIRED ONE (1) HOUR FIRE RESISTIVE EXIT CORRIDORS AND PUBLIC ASSEMBLY ROOMS.
  - B. MANUAL PULL STATIONS SHALL BE INSTALLED AT EVERY EXIT FROM EVERY LEVEL.
  - C. INSTALL AN EMERGENCY KEY BOX (SUPRA BRAND, FLUSH MOUNTAED) AT A LOCATION APPROVED BY THE FIRE DEPARTMENT. THE BOX SHALL BE ELECTRONICALLY SUPERVISED BY THE FIRE ALARM CONTROL PANEL AND ACTIVATE A SUPERVISORY CONDITION. ALL NECESSARY BUILDING ACCESS AND FIRE PROTECTION KEYS SHALL BE PLACED INTO THE BOX PRIOR TO OCCUPANCY APPROVAL. IFC 506. FIRE ACCESS ROAD, FIRE SERVICE MAINS, WET CHEM (IF NEEDED), UNDERGROUND TANK PULL.
  - D. IN ACCORDANCE WITH INTERNATIONAL MECHANICAL CODE, SECTION 606.2, ALL HVAC UNITS OVER 2,000 CFM SHALL BE SHUT DOWN BY THE ACTIVATION OF SMOKE ON THE RETURN SIDE OF THE SYSTEM. UPON ACTIVATION OF THE SMOKE DETECTOR THE FIRE ALARM PANEL SHALL INITIATE A SUPERVISORY CONDITION.
  - E. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE, SECTION 3002.4, THE ELEVATOR CAR SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE A 24 INCH BY 84 INCH AMBULANCE STRETCHER IN THE HORIZONTAL OPEN POSITION AND SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES
  - F. INSTALL THE ASSIGNED BUILDING NUMBER ON THE STRUCTURE THAT IS CLEARLY VISIBLE FROM THE STREET. NUMBERS SHALL CLEARLY CONTRAST WITH THEIR BACKGROUND IN COLOR. IFC 905.1
  - G. ALL PORTABLE FIRE EXTINGUISHERS TO BE 2A:10B:C
  - H. INSTALL ILLUMINATED EMERGENCY LIGHTING THROUGHOUT THE BUILDING IN COMPLIANCE WITH IFC 1006.3 PERMITS ARE REQUIRED FROM FIRE MARSHALL'S OFFICE FOR SPRINKLERS AND FIRE ALARMS.
  - I. SEE IBC DATA CHART THIS SHEET FOR SPRINKLER SYSTEM TYPE(s) REQUIRED. CHARGED SPRINKLER SYSTEM.
  - J. ALARM SYSTEMS AS PER WASHINGTON CODES AND AUDIBLE AND VISUAL TO BE INSTALLED IN UNITS, NFPA 72.



**TYPICAL NOTES**

**GENERAL NOTES:**

1. ALL WORK SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE, AS AMENDED BY WASHINGTON STATE, AND ALL OTHER STATE AND LOCAL JURISDICTION RULES AND REGULATIONS. IBC SECTIONS WHICH ARE SPECIFICALLY MENTIONED SHALL INCLUDE ALL SUB-SECTIONS, TABLES, FOOTNOTES, EXCEPTIONS, ETC. A COPY OF THE 2015 IBC SHALL BE MAINTAINED ON THE SITE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.
  2. THIS SET OF WORKING DRAWINGS IS CONSIDERED A "BUILDER SET" AND AT THE OWNER'S REQUEST DOES NOT INCLUDE SPECIFICATIONS. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE AND COORDINATE SPECIFICATIONS, INCLUDING PRODUCT ELECTION AND INSTALLATION OR ASSEMBLY. THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT/DESIGNER AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT/DESIGNER. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT/DESIGNER. VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO CONSTRUCTION. DIMENSIONS ARE TO FACE OF STUD, OR TO FACE OF CONCRETE, UNLESS NOTED OTHERWISE.
  3. REPETITIVE FEATURES ARE OFTEN DRAWN (OR NOTED) ONLY ONCE AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN (OR NOTED) IN FULL.
  4. ALL EXPOSED EXTERIOR METAL SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE.
  5. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE HYDROGEOLOGIC AND GEOTECHNICAL REPORT AND RECOMMENDATIONS AS PREPARED BY THE GEOTECHNICAL ENGINEER.
- FIREBLOCKING:**
- INSTALL 2X FIREBLOCKING PER 717.2 AS FOLLOWS:
- a. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS, VERT AT THE CLG AND FLR LEVELS AND HORIZ. AT INTERVALS NOT EXCEEDING 10 FEET
  - b. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERT AND HORIZ SPACES SUCH AS OCCUR AT SOFFITS, DROP CLGS AND COVE CLGS
  - c. IN CONCEALED SPACES BTWN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
  - d. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
  - e. THE INTEGRITY OF ALL FIREBLOCKS SHALL BE MAINTAINED.

**DRAFTSTOPPING:**

DRAFTSTOPPING PER 717.4.2 AS FOLLOWS:  
a. NONE REQUIRED WHEN THE SPRINKLER SYSTEM IS INSTALLED IN THE CONCEALED SPACES.

**GUARDS:**

PRE-MANUFACTURED GUARD SYSTEMS SHALL BE DESIGNED AS BIDDER DESIGN/ DEFERRED SUBMITTAL.

**ADDRESS IDENTIFICATION:**

PROVIDE BUILDING / UNIT NUMBERS OR ADDRESSES IN CONTRAST WITH THEIR BACKGROUND MATERIAL WITH PLACEMENT TO BE IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROADWAY/ DRIVEWAY FRONTING THE BUILDING/PROPERTY PER 501.2.

**SECURITY:**

- PROVIDE PROVIDE SECURITY FROM CRIMINAL ACTIVITY PER 420.6 AS FOLLOWS:
- a. ENTRANCE DOOR SHALL BE A 1-3/8" THICK SOLID FLUSH SOLID CORE WOOD DOOR.
  - b. PROVIDE NON-SHATTERING GLAZING IN PRIMARY ENTRANCE DOOR
  - c. PRIMARY ENTRANCE DOOR SHALL BE SELF-CLOSING, SELF-LOCKING & EQUIPPED WITH A DEAD LOCKING LATCH BOLT PER 420.1.2

**AREA & HEIGHT CALCULATIONS**

**CONSTRUCTION TYPE:**

V-A - SPRINKLED - NFPA 13

**BUILDING HEIGHT:**

4 STORY

**OCCUPANCY:**

A-2/R-2/S-2

Mixed Use -Non Separated Occupancies

BUILDING AREAS LEVEL	A2	R2	S2	TOTAL
1ST FLOOR AREA	0	0	6,954	6,954
2ND FLOOR	789	5,927	0	6,716
3RD FLOOR		6,658	0	6,658
4TH FLOOR		6,658	0	6,658
TOTAL	789	19,243	6,954	26,996

**ALLOWABLE AREAS - IBC 506**

Sprinkled Multi-Story Non-Separated

No Increase

1st Floor-S2 - Allowable = 34,500  
Proposed = 6,954 < 34,500 (Ratio = .20)

2nd Floor-A-2 - Allowable = 34,500  
Proposed = 6,716 < 34,500 (Ratio = .20)

3rd Floor-R2 - Allowable = 36,000  
Proposed = 6,658 < 36,000 (Ratio = .19)

4th Floor-R2 - Allowable = 36,000  
Proposed = 6,658 < 36,000 (Ratio = .19)

Total Proposed Building Area = 26,996

Sum of Ratios = .78 < 3

**GENERAL**

THE BUILDING IS REQUIRED TO BE TOTALLY ACCESSIBLE TO THE HANDICAPPED. IBC SEC 11/ICC A 117.1. THE FOLLOWING ITEMS ARE NOTED: THIS IS NOT AN ALL INCLUSIVE LIST.

- A. ALL FLOOR COVERING SURFACES WHICH ARE PART OF AN ACCESSIBLE ROUTE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. ICC/ANSI 302.1
- B. TOILET FLUSH CONTROLS SHALL BE MOUNTED FOR USE FROM THE WIDE SIDE OF THE WATER CLOSET AREA. ICC 604.6. FAUCET CONTROL HANDLES AND FLUSH CONTROLS SHALL HAVE LEVER OR OTHER SHAPE PERMITTING OPERATION BY WRIST OR ARM PRESSURE AND NOT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING TO OPERATE. ICC 309.4. LAVATORIES SHALL BE MOUNTED TO COMPLY WITH THE FOLLOWING: MINIMUM CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON, AND 27" TO THE BOTTOM OF THE SINK; THE COUNTER OR RIM NO HIGHER THAN 34" FROM THE FLOOR; SINK SHALL BE MAX OF 6 1/2" DEEP; HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED; SHARP OR ABRASIVE SURFACES UNDER LAVATORIES ARE NOT PERMITTED. A CLEAR FLOOR SPACE AT LEAST 30"x48" SHALL BE PROVIDED IN FRONT OF LAVATORIES.
- D. THE ACCESSIBLE UNIT TUBS SHALL BE PROVIDED 2 GRAB BARS. ONE GRAB BAR SHALL BE 9" ABOVE B ANTHE RIM OF THE TUB THE OTHER 33"-36" ABOVE THE FLOOR OF THE ROOM.
- G. SWITCHES, ENVIRONMENTAL CONTROLS, ETC, SHALL BE LOCATED NOT OVER 48" (FORWARD REACH), 54" (SIDE REACH), AND NOT LESS THAN 36" ABOVE THE FLOOR. NOTE: OBSTRUCTIONS ADJACENT TO THE SWITCHES WILL CHANGE THESE HEIGHT REQUIREMENTS. SEE THE APPROPRIATE CODE SECTION. ELECTRICAL AND COMMUNICATION RECEPTACLES SHALL NOT BE LESS THAN 15" OFF THE FLOOR, MEASURED TO THE BOTTOM OF THE RECEPTACLE. ICC 309.
- I. EMERGENCY WARNING SYSTEMS, WARNINGS, AND SIGNAGE SHALL COMPLY WITH IBC 907.9. BOTH AUDIBLE AND VISUAL ALARMS SHALL BE PROVIDED.
- J. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AND BE CENTERED 60" ABOVE THE FINISHED FLOOR. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT AN 18" X 18" CLEAR FLOOR AREA, CENTERED ON THE SIGNAGE, IS PROVIDED BEYOND THE ARC OF THE DOOR. ICC 703.5.1. THE FINISH, COLOR, CHARACTER PROPORTIONS, HEIGHT, RAISED OR BRAILLE CHARACTERS, AND PICTORIAL SYMBOLS SHALL BE AS REQUIRED IN ICC 703.

**SIGNAGE**

REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS:  
-ACCESSIBLE PARKING SPACES REQUIRED BY SECTION 1106.1  
-ACCESSIBLE PASSENGER LOADING ZONES.  
-ACCESSIBLE AREAS OF REFUGE, SEE SHEET A5.7  
-ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILET OR BATHING ROOMS ARE CLUSTERED AT A SINGLE LOCATION.  
-ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE.  
-UNISEX TOILET AND BATHING ROOMS.

**DIRECTIONAL SIGNAGE**

DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:  
-INACCESSIBLE BUILDING ENTRANCES.  
-INACCESSIBLE PUBLIC TOILETS AND BATHING FACILITIES.  
-ELEVATORS NOT SERVING AN ACCESSIBLE ROUTE.  
-AT EACH SEPARATE-SEX TOILET AND BATHING ROOM INDICATING THE LOCATION OF THE NEAREST UNISEX TOILET OR BATHING ROOM WHERE PROVIDED IN ACCORDANCE WITH SECTION 1109.2.1.  
-AT EXITS AND ELEVATORS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1007.7.

**OTHER SIGNS**

SIGNAGE INDICATING SPECIAL ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AS SHOWN:  
-EACH ASSEMBLY AREA PROVIDING AN ASSISTIVE LISTENING SYSTEM.  
-AT EACH DOOR TO AN EGRESS STAIRWAY, EXIT PASSAGWAY AND EXIT DISCHARGE, SIGNAGE SHALL BE A TACTILE SIGN STATING EXIT PER ICC A 117.1, SEE SHEET A8.3.

**DRAWING NOTES**

1. THESE DRAWINGS ARE PART OF THE CONSTRUCTION DOCUMENTATION SET WHICH ALSO INCLUDE THE PROJECT MANUAL/SPECIFICATION, ARCHITECTURAL FINISHES MANUAL AND ANY OTHER REFERENCES WITHIN THESE DOCUMENTS.

2. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, PROJECT MANUAL/SPECIFICATION AND THE ARCHITECTURAL FINISHES MANUAL.

3. THE ARCHITECTURAL FINISHES MANUAL CONTAINS HOLIDAY INN EXPRESS AND STAYBRIDGE BRAND STANDARDS PRODUCT SPECIFICATIONS WITH "EXG" OR "EXP" KEY MARKS IDENTIFIED ON THE DRAWINGS. ALL OTHER PRODUCTS ARE SPECIFIED AS FOLLOWS:

- a. EXTERIOR PRODUCTS ARE INDICATED ON DRAWING A011.
- b. BUILDING AND BATHROOM ACCESSORIES ARE INDICATED ON DRAWING A400.
- c. DOOR PRODUCTS ARE INDICATED ON DRAWING A712.
- d. CEILING MISC PRODUCTS ARE NOTED ON THE REFLECTED CEILING LEGEND NOTES.
- e. ALL OTHER PRODUCT KEY MARK IDENTIFIED ON THE DRAWINGS ARE EITHER SCHEDULED IN THE DRAWING SET OR SPECIFIED IN THE PROJECT MANUAL/SPECIFICATION.
- f. SEE ALSO MECH AND ELEC DRAWINGS.

4. ALL ITEMS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE OWNER/ INTERCONTINENTAL HOTELS GROUP.  
a. IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY THE SCOPE OF OWNER /INTERCONTINENTAL HOTELS GROUP FURNISHED OR FURNISHED AND INSTALLED ITEMS.  
b. IF THE OWNER IS FURNISHING ONLY, THE CONTRACTOR SHALL INSTALL THOSE ITEMS.  
c. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING OWNER /INTERCONTINENTAL HOTELS GROUP ALL DELIVERY AND INSTALLATION ACTIVITIES.

**COMMON RECREATIONAL AREAS**

**REQUIRED AREA:**

1 BEDROOM UNITS - 19 X 100 = 1,900  
2 BEDROOM UNITS - 3 X 130 = 390  
TOTAL AREA REQUIRED 2,290

**AREAS PROVIDED:**

DECKS  
UNIT A - 83 X 3 = 249  
UNIT B - 67 X 3 = 201  
UNIT D - 95 X 3 = 285  
UNIT F/FA - 58 X 3 = 174  
UNIT H - 54 X 2 = 108  
TOTAL DECK AREAS 1,017

COMMUNITY ROOM = 789  
FITNESS ROOM = 391  
MENS RR = 52  
WOMENS RR = 56  
SUBTOTAL 1,288

TOTAL COMMON REC. AREA = 2,305

**PLUMBING CALCS.**

COMMUNITY ROOM OCCUPANT LOAD = 53  
FITNESS CENTER OCCUPANT LOAD = 8  
TOTAL COMMON AREAS OCC. LOAD = 61

**REQUIRED FIXTURES PER IBC CHAPTER 29**

**WATER CLOSETS**

	REQUIRED	PROVIDED
MEN		
WOMEN		

**LAVS**

	REQUIRED	PROVIDED
MEN		
WOMEN		

DRINKING FOUNTAINS REQUIRED - 1

**UNDER SEPARATE PERMITS**

Submittal documents for any deferred submittal items shall be submitted to the architect or engineer of record for review and written approval of general conformance with the design, intent and code requirements of the building. The following information will be provided as deferred submittals:

- |  |  |
|--|--|
| 1. ELECTRICAL                                  | 9. PRE-FABRICATED METAL-PLATE CONNECTED WOOD TRUSSES     |
| 2. FIRE SPRINKLER                              | 10. SHEARWALL HOLDOWN SYSTEM                             |
| 3. FIRE ALARM                                  | 11. SUSPENDE CEILING SYSTEMS INCL. SEISMIC               |
| 4. FIRE DETECTION/NOTIFICATION                 | 12. EXTERIOR AND INTERIOR SIGNAGE                        |
| 5. FIRE SUPPRESSION                            | 13. EMERGENCY POWER GENERATOR/BATTERY STANDPIPES         |
| 6. UNDERGROUND FIRE LINE                       | 14. UNDERGROUND FIRE SERVICE MAIN                        |
| 7. STANDPIPES                                  | 15. EMERGENCY RESPONDER RADIO SYSTEM (DAS) IF REQUIRED.  |
| 8. MEMBRANE AND THROUGH PENETRATION FIRE STOPS | 16. FIRE PROTECTION COATING FOR STRUCTURAL STEEL FRAMING |
|  | 17.  |



**Dale Sweeney**  
—ARCHITECT—  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLH-001  
DATE: 6/26/2017  
DWG. BY: TGC  
CHKD BY: DS  
RVS:

REVISIONS  
NO. DATE REVISION Description  
1 9/8/19 City Comments  
3 11/8/21 City Comments

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**GENERAL NOTES**

PRINT DATE:  
2/15/2021 12:46:12 PM

**SHEET NO.  
A003**

### Project Summary, pg 1 PROJ-SUM

2015 WSEC Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1  
Revised Oct 2017

**General Info** Project Title: **2152 N 185th Street** Date: **3/1/2019**  
 Project Street Address: 2152 N 185th Street For Building Department Use  
 Project City, County, Zip: Shoreline, WA 98133  
 Project Owner or Rep: [Blank]  
 Jurisdiction: City of Shoreline

**Project Description**  
 New Construction and Additions  
 New Building  Building Addition  
 Alteration  Change of Occupancy  Change in Space Conditioning  
 Historic Building  
 Building Elements Scope - Select all that apply  
 All  Building Envelope  Mechanical Systems  
 Service Hot Water Systems  Lighting Systems  Electrical Systems

**Occupancy Type**  
 All Commercial  Group R - R2, R3, & R4 over 3 stories and all R1  Mixed Use  
 Mixed Use - Building is greater than three stories above grade and it has both Commercial and Group R occupancies.  
 Mixed Occupancy - Building is three stories or less above grade and it has both Commercial and Group R2, R3 or R4 occupancies. Select All Commercial to document compliance for the commercial areas of the building. These residential spaces shall comply with the WSEC Residential Provisions.

**Space Conditioning Categories**  
 Select all that apply to the scope of project  
 Fully Conditioned  Semi-heated<sup>2</sup>  Refrigerated Spaces (Warehouse and/or Walk-in)<sup>3</sup>  
 Low Energy Space Category<sup>3</sup>  
 Eligible Low Energy Spaces  
 Unconditioned  Low energy heating/cooling capacity  
 Wireless service equipment shelter  Greenhouse<sup>4</sup>  Equipment building

**Floor Area and Stories**  
 Floors Above Grade: [Blank] Building Gross Conditioned Floor Area: [Blank] Project Gross Conditioned Floor Area: [Blank]

**General Compliance Path**  
 Compliance Method 1 - General  Compliance Method 2 - Total Building Performance  
 Compliance Method 1 - Projects shall demonstrate compliance with all applicable mandatory and prescriptive requirements of this code. Refer to C402.2, Item 1 for more information. Compliance forms to include with a Prescriptive submittal: All applicable ENV, LTG, and MECH.  
 Compliance Method 2 - Projects complying with total building performance (TBP) shall include a summary of results from a whole building energy model per Section C407 and shall demonstrate compliance with all applicable mandatory provisions in this code. Refer to Section C401.2, Item 2 for more information. Compliance forms to include with a TBP submittal: PROJ-SUM, ENV-CHK, LTG-EXT, LTG-CHK, and all MECH forms except MECH-ECONO and MECH-VENT (pending).  
 Note 1 - Refrigerated Spaces - They shall comply with the envelope and refrigeration equipment requirements in Section C410. Warehouse coolers and freezers shall also comply with the envelope requirements in C402. C410 takes precedent for overlapping requirements.  
 Note 2 - Semi-heated Spaces - If heated with equipment other than electric resistance may take an exemption for wall insulation. All other envelope assemblies shall comply with the thermal envelope provisions.  
 Note 3 - Exemptions For Low Energy Spaces - Low Energy spaces are exempt from all provisions in WSEC Section C402 Building Envelope, however all other applicable provisions in the Code do apply including lighting, mechanical, service water heating, etc.  
 Note 4 - Eligible Space Conditioning For Low Energy Greenhouses - Greenhouses are defined as spaces that maintain a specialized sunlit environment that is used exclusively for cultivation, protection and maintenance of plants. Cooling with outside air and/or evaporative cooling, and any form of heating equipment, are allowed under the Low Energy Greenhouse category. Greenhouses with cooling equipment that requires a condensing unit are NOT eligible.

### Project Summary, pg 2 PROJ-SUM

2015 WSEC Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1  
Revised Oct 2017

**General Info** Project Title: **2152 N 185th Street** Date: **3/1/2019**

**C406 Additional Efficiency Package Options Summary**  
 A minimum of two Options are required for new construction, and change in space conditioning or occupancy projects.  
 Select all Options included in the current project scope. Also select Options complied with under previous projects (shell and core, other tenant spaces in building, etc). Buildings with multiple tenant spaces may comply with different options (mix & match). Options are required for all space conditioning categories. Include discipline specific information for C406 options in ENV-SUM, LTG-SUM and refer to SBCC website for official interpretations regarding C406 provisions.

Current Scope	Previous Projects
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

**C406 Comments:**

### Envelope Summary ENV-SUM

2015 WSEC Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1  
Revised Oct 2017

**Project Info** Project Title: **2152 N 185th Street** Date: **03/01/2019**  
 Company Name: [Blank] For Building Department Use  
 Company Address: [Blank]  
 Applicant Name: [Blank]  
 Applicant Phone: [Blank]  
 Applicant Email: [Blank]

**Project Description**  
 New Building  Addition  Alteration  No Envelope Scope  
 Envelope Project Scope  
 All Commercial  Group R - Commercial  Mixed Use - Commercial + Group R  
 Semi-heated  Refrigerated Cooler  Refrigerated Freezer  Equipment Building

**Envelope Description**  
 Provide brief description of the project and relevant supporting documentation.  
 If project includes multiple Target Insulation Allowance areas, and/or is demonstrating compliance as an Addition + Existing, Alteration + Existing, or Addition + Alteration + Existing project, provide a brief summary of the approach to

**Air Barrier Testing**  
 Air barrier testing per Section C402.5.1.2 included in project scope  
 Additional Efficiency Package Option - C406.9 Reduced Air Infiltration  
 Testing not required. Explanation: [Blank]

**Compliance Documentation Scope and Method**  
 New Building  Addition  Alteration  No Envelope Scope

**Scope of This Calculation**  
 Fully Conditioned - Commercial, Group R, Mixed Use  
 Semi-heated  Refrigerated Cooler  Refrigerated Freezer  
 If project includes more than one Target Insulation Allowance area, and/or if project includes addition and alteration areas complying independently, for each area complete an ENV-SUM form Rows 16-46 and either an ENV-PREScriptive form, or ENV-UA + ENV-SHGC forms if demonstrating compliance via component performance.

**Envelope Compliance Path**  
 Prescriptive  Component Performance

**Component Performance Calculation Adjustments**  
 Change of Occupancy (C503.2) / Conditioning (C505) - 10% higher UA allowed  
 Additional Efficiency Package Option - C406.8 Enhanced Envelope - 15% lower UA required

**Additions**  
 Addition stand alone  Addition + Existing  
 Addition stand alone - Complete Vertical Fenestration and Skylight Area Calculation. Enter total existing to remain wall, roof, vertical fenestration and skylight areas as EXISTING. Enter total addition envelope assembly areas as NEW. If resulting total building WWR exceeds 30%, refer to C502.2.1 and C502.2.2 for prescriptive compliance alternatives. If complying via component performance, complete ENV-UA per instructions for addition stand alone projects.  
 Addition + existing - Complete ENV-UA per instructions for addition + existing projects.

**Alterations - Fenestration and Skylight**  
 Replacement windows only, or resulting total building WWR ≤ original WWR  Total building WWR increased by alteration  
 Replacement skylights only, or resulting total building SRR ≤ original SRR  Total building SRR increased by alteration  
 WWR and SRR not increased - Vertical Fenestration and Skylight Area Calculation not required.  
 WWR and/or SRR increased - Complete Vertical Fenestration and Skylight Area Calculation. Enter total existing to remain wall, roof, vertical fenestration and skylight areas as EXISTING. Enter total altered envelope assembly areas as NEW. If resulting total building WWR exceeds 30% and/or SRR exceeds 5%, refer to C503.2.2 and C503.3.3 for prescriptive compliance alternatives. If complying via component performance, complete ENV-UA per instructions for alteration + existing projects.

### Envelope Summary, pg. 2 ENV-SUM

2015 WSEC Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1  
Revised Oct 2017

**Project Title:** 2152 N 185th Street Date: 03/01/2019

**Vertical Fenestration and Skylight Area Calculation**  
 Prescriptive Path - Enter envelope of values directly into this section of ENV-SUM for vertical fenestration, skylights, net walls and roof. For Additions and Alterations, refer to these sections in ENV-SUM for further instructions.  
 Component Performance - When this fenestration Compliance Path is selected, anti-protection of this section is enabled. Enter envelope of values for all assemblies into the ENV-UA form. Envelope information from ENV-UA will auto-fill into this section of ENV-SUM.

	Total Vertical Fenestration Area (rough opening)	NET Exterior Above Grade Wall Area	Total Skylight Area (rough opening)	NET Exterior Roof Area
New	2,793	13,561	0	6,857
Existing	0	0	0	0
Total	2,793	13,561	0	6,857

Vertical Fenestration to-Wall Ratio (WWR) 17.1% Skylight-to-Roof Ratio (SRR) [Blank]

**Vertical Fenestration Area Compliance**  
 VERTICAL FENESTRATION AREA COMPLIES WITH MAXIMUM ALLOWANCE

**Skylight Area Compliance**  
 NO SKYLIGHT PROPOSED, COMPLIES WITH MAXIMUM ALLOWANCE.

**Vertical Fenestration Alternates**  
 High performance fenestration U-factors and SHGC per C402.4.1.3  
 Dedicated outdoor air system per C402.4.1.4 and C403.6  
 In buildings ≥ 3 stories, 25% or more of NET floor area is in DLZ per C402.4.1.1  
 In buildings < 3 stories, 50% or more of CONDITIONED floor area is within DLZ per C402.4.1.1

**Daylight Zone Calculations**  
 Daylight Zone Fenestration Alternates Not Selected. No Calculations Required

**Spaces in Single Story Building Requiring Skylights**  
 List all enclosed spaces that exceed 2,500 ft<sup>2</sup>, have ceiling height greater than 15 ft, and are space types required to comply with this provision. Indicate openings with "AP" prefix (AP 1, 15).  

Space	Space Area (ft <sup>2</sup> )	DLZ Area (ft <sup>2</sup> )	SRR or Aperture	Exception
[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

**Envelope Exemptions**  
 Low Energy and Semi-heated Spaces  
 Low energy spaces per C402.1.1 Item 1 are exempt from the thermal envelope provisions. Semi-heated spaces heated by systems other than electric resistance are exempt from wall insulation provision only per C402.1.1.1.  
 Complete Low Energy and Semi-Heated Spaces table in MECH-SUM to verify eligibility based on installed peak heating and cooling capacity per sf.

**Equipment Buildings**  
 Equipment buildings are exempt from the thermal envelope provisions per C402.1.2. The following shall be met to be eligible: building size ≤ 500 sf, average wall/roof U-factor ≤ 0.14/0.20, electronic equipment load ≤ 7 watts/sf, heating system output capacity ≤ 17,000 btuh. Cooling system capacity not

### Prescriptive Path, pg. 1 ENV-PREScriptive

2015 WSEC Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1  
Revised Oct 2017

**Project Title:** 2152 N 185th Street Date: 03/01/2019

**Target Insulation Allowance**  
 Fully Conditioned Space - Commercial, Group R, Mixed Use  
 Max. Target: 30.0%  
 Max. Target: 5.0%

**Fenestration Area** as % gross above-grade wall area  
 Max. Target: 30.0%  
 Max. Target: 5.0%

**Vertical Fenestration Alternates:** None Selected on ENV-SUM

**Building Component**  
 Provide plan/detail # of assembly and description  

Provide plan/detail # of assembly and description	Cavity Ins. R-Value	Ins. (C) R-Value	Penetrations in CF	Assembly U-Factor	U-Factor Source <sup>10</sup>
(1)A101) R38 insulation above deck				0.027	WSEC Table C402.1.4
(2)A201) R38 insulation above deck				0.027	WSEC Table C402.1.4
(10)A911) R21 INT framing				0.054	WSEC Table A103.3.1(5)
(A2)A900) Concrete Wall, R13 Metal Framing @ 24" OC				0.100	See Calculation
(B)A900) Concrete Wall, R12.5 w/ 1" metal clp @ 24" OC Hor. And 16" OC Vert				0.092	WSEC Table A103.3.7.1(4)
(A2)A900) Concrete Wall, R13 Metal Framing @ 24" OC				0.100	See Calculation
(B)A900) Concrete Wall, R12.5 w/ 1" metal clp @ 24" OC Hor. And 16" OC Vert				0.092	WSEC Table A103.3.7.1(4)
(7)A900) R30 Concrete Slab				0.031	WSEC Table C402.1.4
(1)A900) R30 Wood Joist				0.029	WSEC Table C402.1.4

### Prescriptive Path, pg. 2 ENV-PREScriptive

2015 WSEC Compliance Forms for Commercial Buildings including R2, R3, & R4 over 3 stories and all R1  
Revised Oct 2017

**Project Title:** 2152 N 185th Street Date: 03/01/2019

**Fenestration Area** as % gross above-grade wall area  
 Max. Target: 17.1%  
 Max. Target: 30.0%  
 Max. Target: 5.0%

**Skylight Area** as % gross roof area  
 Max. Target: 30.0%  
 Max. Target: 5.0%

**Building Component**  
 Provide plan/detail # of assembly and description  

Provide plan/detail # of assembly and description	Perim. Ins. R-Value	Full Slab CI R-Value	F-Factor	F-Factor Source <sup>10</sup>
(1)A911) R10 Vertical Slab-On-Grade			0.540	WSEC Table A106.1
(55)A104) HBI Door			0.378	WSEC Table A101.1(1)
(2)A104) Sliding Door (A, B, C, D, E, F, H, I, J)			0.40	A104
(11)A104) Swing Door			0.40	A104

**Miscellaneous - Refrigerated Spaces**  
 Provide plan/detail # of assembly and description  

Provide plan/detail # of assembly and description	Ins. R-Value	Assembly U-Factor	U-Factor Source
[Blank]	[Blank]	[Blank]	[Blank]

Provide ID from window schedule and description  

Provide ID from window schedule and description	Cooler / Freezer	Double Pane Glass	Triple Pane Glass	Inert Gas Filled	Heat Reflective Treated Glass
[Blank]	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

**Note 1** - Insulation that is continuous except for fasteners may be entered here if the cross-sectional area of metal penetration through otherwise continuous insulation is less than 0.12%.

**Note 2** - Alternative prescriptive continuous insulation R-values per Table C402.1.4, Footnote F may be used if the cross sectional area of metal penetrations exceeds 0.04% but is less than 0.12%. Calculations are required to use these alternate R-values.

**Note 3** - Opaque assembly U-factors shall come from Appendix A or calculated per approved method as specified in C402.1.5.1. Specify the table number or calculation page number.

**Note 4** - Thermal spacer blocking and iner system are required for prescriptive R-Value compliance in metal building roof assemblies. Note thermal spacer thickness and R-value in roof assembly description.

**Note 5** - Intermediate framing is required for prescriptive R-Value compliance in wood-framed wall assemblies.

**Note 6** - Proposed CMU mass walls in non-Group R that meet Table C402.1.4 Footnote C requirements can enter the target prescriptive U-value of 0.104.

**Note 7** - Mass transfer slab edges must be covered with an assembly having an overall U-factor of 0.2.

**Note 8** - Refer to Table C402.1.3, Footnote E for prescriptive R-Value requirement for steel floor joist assemblies.

**Note 9** - Prescriptive slab-on-grade insulation shall extend from top of slab to minimum length per an approved method as defined in C402.2.6.

**Note 10** - Slab-on-grade F-Factors shall come from Appendix A or calculated per approved method as specified in C402.1.5.1.

**Note 11** - Opaque door U-factors shall come from Appendix A or calculated per approved method as specified in C402.1.5.1. A door is defined as opaque if less than 50% of the door area has glazing.

**Note 12** - Refer to Equation C4-6 Projection Factor Calculation.

**Note 13** - N = Oriented within 45 degrees of true north, SEW = All other orientations.

**Note 14** - Fenestration assembly U-Factor and SHGC shall be the manufacturer's NFRC product rating, which includes the glazing and frame, or shall be the default value per Section C303.1.3.

**Note 15** - List all above-grade Group R mass walls and steel frame walls in Group R Walls section. List commercial above grade walls and all other Group R above grade walls in Opaque Walls - Above Grade.

**Note 16** - Refrigerated Coolers - All cooler roof, wall and door assemblies shall comply with the prescriptive R-values or U-factors per C410. Enter proposed information under the most similar assembly type. Slab edge insulation for slab-on-grade floors shall comply with C402. Floors that separate a cooler from a non-cooler space (unconditioned and conditioned) shall be insulated per C402. Vertical fenestration (not within cooler doors) shall comply with the prescriptive R-values or U-factors per C402. Enter only the opaque portion of retrofitted space doors. Windows within doors and reach-in display case doors shall comply with C410 prescriptive requirements.

**Note 17** - Refrigerated Freezers - All freezer roof, wall and door assemblies shall comply with the prescriptive R-values or U-factors per C410. Enter proposed information under the most similar assembly type. Freezer floor insulation shall comply with C410. Insulation is required under the entire freezer floor. If the freezer floor assembly rests on top of a standard floor, the vertical edge of the freezer floor shall be entered as and comply with the requirements for a freezer wall. If freezer floor insulation is installed as integral to or applied underneath a slab-on-grade or exposed floor, this floor shall be thermally broken from the surrounding floor area with the same amount of insulation as required for a freezer floor. Enter proposed thermal break information in the Freezer Floor section and note it as In-Floor Thermal Break. Enter only the opaque

## U-Factor Calculations

### Wall (Above Grade)

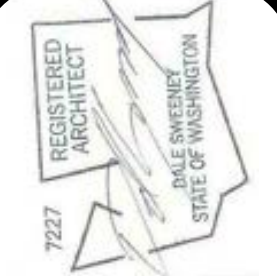
Element	Source	R-Value
(A2/A900) 8" Concrete Wall, R13 Metal Framing @ 24" OC		
Airfilm, Exterior Surface	WSEC Table A101.5	0.17
0.78 in Sheathing	WSEC Table A101.5	2.1
R34.3 Rigid Insulation w/ 0.08-0.12% metal penetrations	WSEC Table C402.1.3	24.6
0.78 in Sheathing	WSEC Table A101.5	2.1
Airfilm, Internal Horizontal Surface Heat up	WSEC Table A101.5	0.61
<b>Total R-Value</b>		<b>29.5</b>
<b>Assembly U-Factor</b>		<b>0.034</b>

### Wall (Below Grade)

Element	Source	R-Value
(A2/A900) 8" Concrete Wall, R13 Metal Framing @ 24" OC		
8" Concrete Wall	WSEC Table A101.5	0.5
Air Cavity (unventilated), other	WSEC Table A101.5	0.91
R-13 Metal Framing @ 24" OC	WSEC Table A103.3.6.2	7.2
5/8" Gypsum Board	WSEC Table A101.5	0.56
Airfilm, Internal Vertical Surface	WSEC Table A101.5	0.68
<b>Total R-Value</b>		<b>9.85</b>
<b>Assembly U-Factor</b>		<b>0.102</b>

### ENERGY CODE DATA

GENERAL INFORMATION				
Referenced Standard	WSEC 2015			
Climate Zone	4C			
BUILDING ENVELOPE DATA				
WSEC TABLE C402.1.3, C402.1.4, C402.4	R-Value Required	U-Value Required	SHGC Required	Comments
PREScription PATH	Designed	Designed	Designed	
ROOFS - INSULATION ABOVE DECK	R-38	R-38	-	-
WALLS ABOVE GRADE - WOOD FRAMED	R-19 + R8.5 CI	R-19 + R10 CI	-	-
WALLS BELOW GRADE	-	-	-	-
FLOORS - MASS	R-10 CI	R-10 CI	-	-
FLOORS - WOOD JOIST FRAMED	R-21	R-21	-	-
OPAQUE DOORS - SWING		0.37	0.37	UNHEATED PARKING
OPAQUE DOORS - NON-SWING		NA	NA	
FENESTRATION		0.30	.28	-36 WEATHERSHIELD SIGNATURE SERIES



**Dale Sweeney**  
 ARCHITECT  
 5715 143rd Place SE  
 Bellevue, WA 98006

JOB NO.: SHRLN-001  
 DATE: 6/26/2017  
 DWN BY: Author  
 CHKD BY: Checker  
 RVS: [Blank]

REVISIONS

NO.	DATE	Revision Description
1	9/8/19	City Comments

**TP HOME 22 UNIT**  
**APTS. 2152**  
**TP Home LLC**  
**2152 N 185TH ST.**

**Energy Code Data**

PRINT DATE:  
 2/15/2021 12:46:20 PM

**SHEET NO.**  
**A004**

302 Floor or Ground Surfaces

302.2 Carpet, Carpet or carpet tile shall be securely attached and shall have a firm cushion, padding or backing or no cushion or pad. Carpet tile shall have a level finish, level cut pile, or level cut/level pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have a trim on the entire length of the exposed edge. Carpet edge trim shall comply with 301.

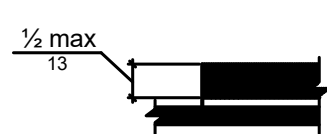


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2" (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3, and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

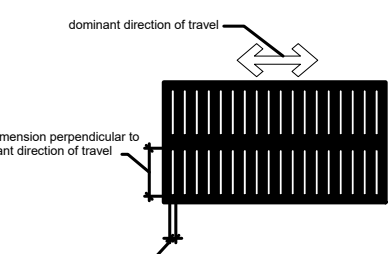


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.

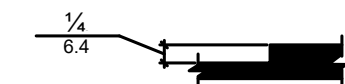


Figure 303.2 Vertical Change in Level

303.3 Ramped. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

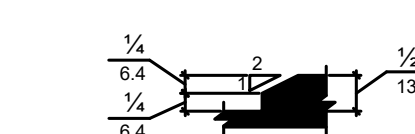


Figure 303.3 Beveled Change in Level

304 Turning Space

304.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms not less than 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or arm.

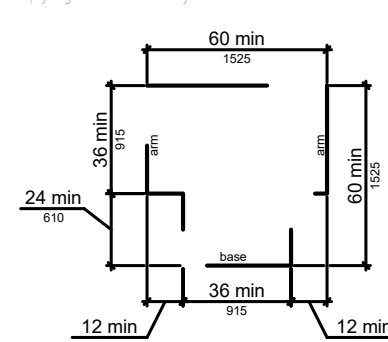


Figure 304.3.2 T-Shaped Turning Space

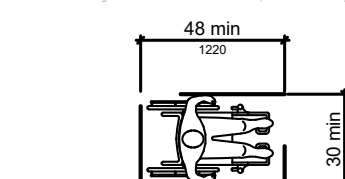


Figure 305.3 Clear Floor or Ground Space

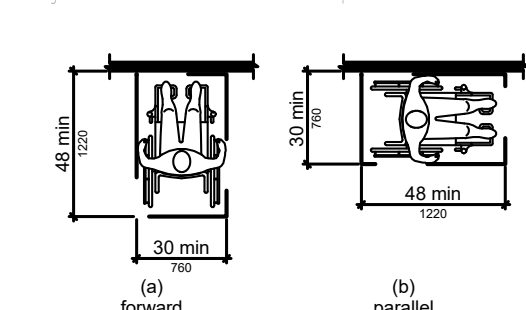


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm) wide minimum where the depth exceeds 24 inches (610 mm).

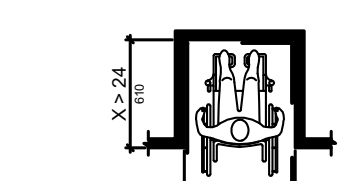


Figure 305.7.1 Moving Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).

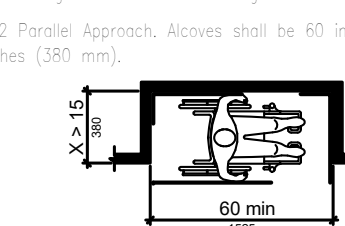


Figure 305.7.2 Moving Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance. 306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required on an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance of 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

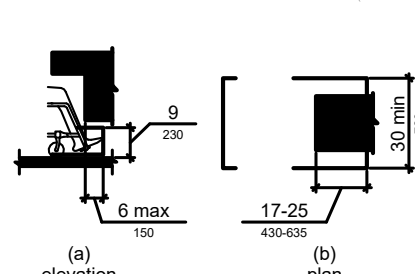


Figure 306.2 Toe Clearance

308.3 Knee Clearance

308.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 308.3.

308.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element of 9 inches (230 mm) above the finish floor or ground.

308.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 6 inches (150 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

308.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

308.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

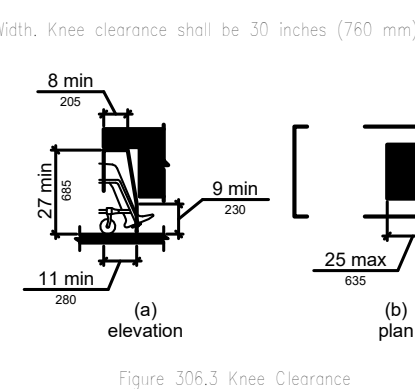


Figure 308.3 Knee Clearance

307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

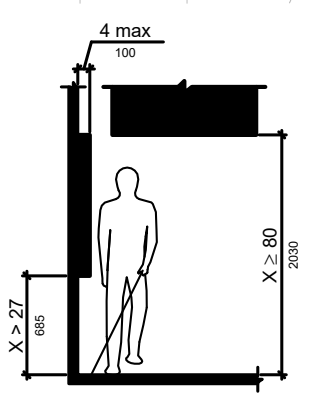


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects

307.3.1 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when mounted 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) maximum above the finish floor or ground.

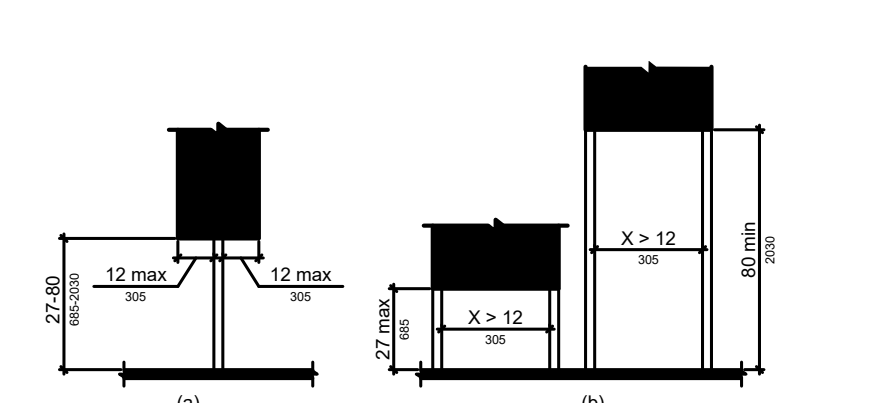


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

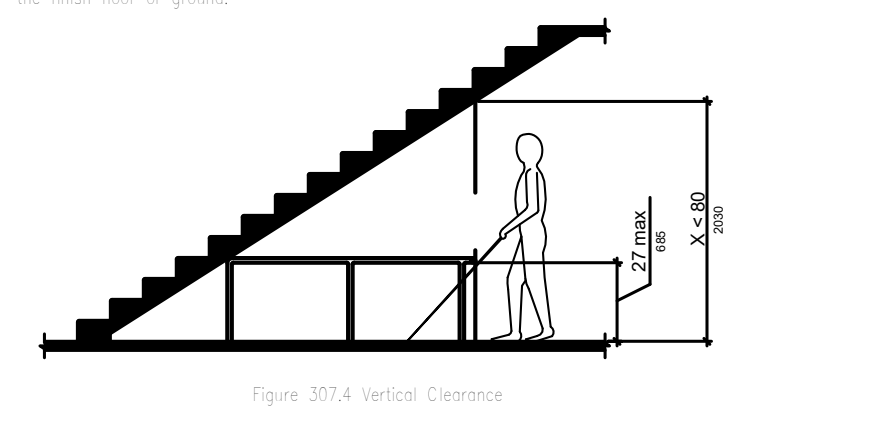


Figure 307.4 Vertical Clearance

308 Reach Ranges

Table with columns: Reach or Side Reach, High (maximum), Low (minimum), and Type. Rows include types 6 through 12.

308.2 Forward Reach

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

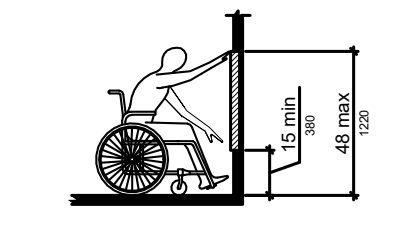


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 45 inches (1120 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

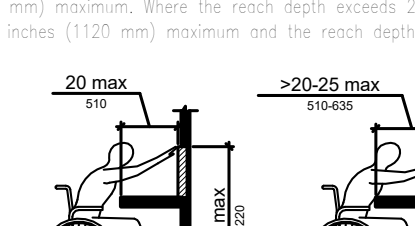


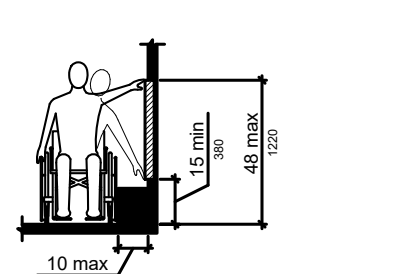
Figure 308.3.1 Unobstructed Side Reach

308.3.2 Obstructed High Reach

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.3 Side Reach

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

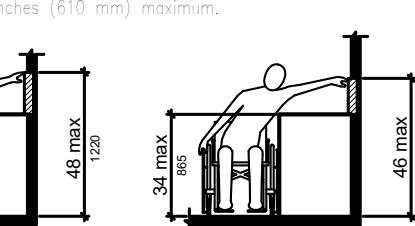


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.3 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.4 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.5 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.6 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.7 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.8 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.9 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.10 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.11 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.12 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.13 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.14 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.15 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.16 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.17 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.18 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.19 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.20 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.21 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.22 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.23 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.24 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.25 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.26 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.27 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.28 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.29 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.30 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.31 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.32 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.33 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.34 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.35 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.36 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.37 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.38 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.39 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.40 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.41 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.42 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.43 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.44 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.45 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.46 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.47 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.48 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.49 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

402.50 Components. Accessible routes shall consist of one or more of the following component walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps including the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

404.2.4.3 Recessed Doors and Gates

404.2.4.3 Recessed Doors and Gates. Minimum maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

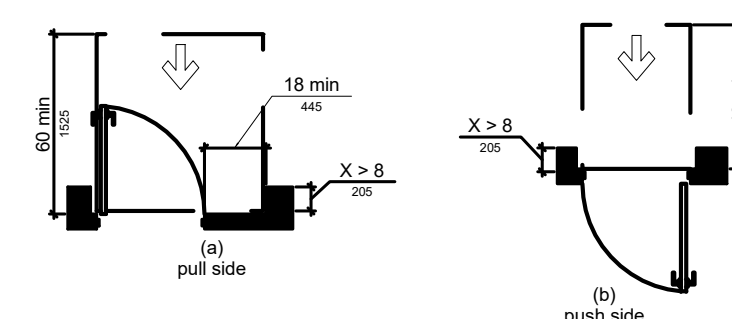


Figure 404.2.4.3 Minimum Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

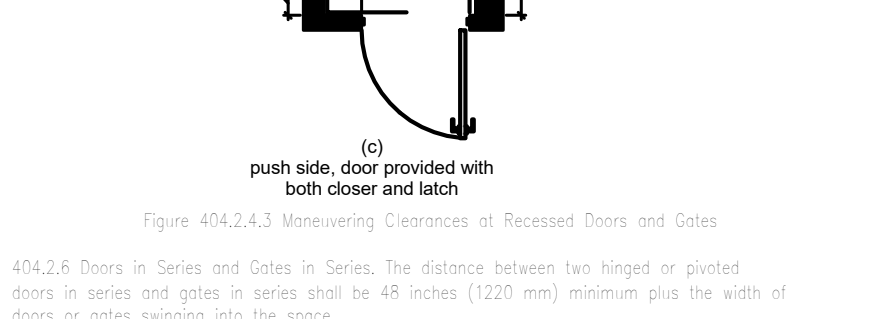


Figure 404.2.6 Doors in Series and Gates in Series

404.2.8 Door and Gate Hardware

404.2.8 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operable hardware shall be exposed and usable from both sides.

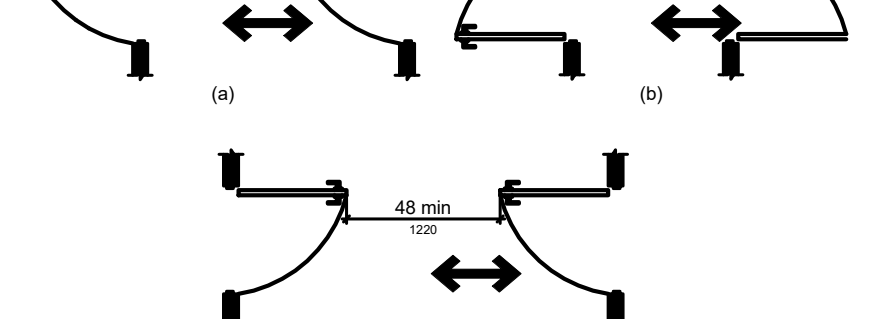


Figure 404.2.8 Door and Gate Hardware

404.2.9 Door Closers and Gate Closers

404.2.9 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

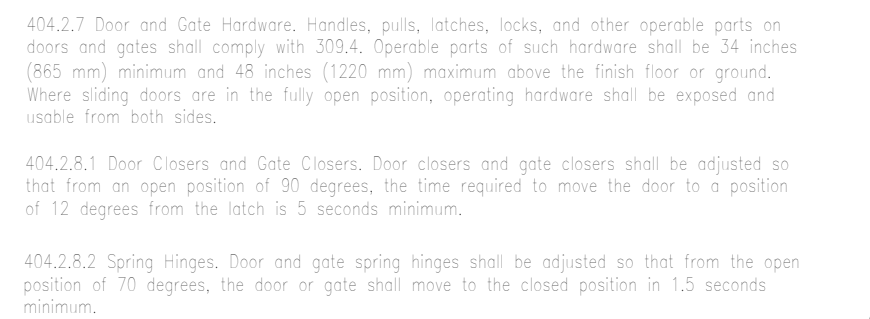


Figure 404.2.9 Door and Gate Closers

404.2.10 Spring Hinges

404.2.10 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

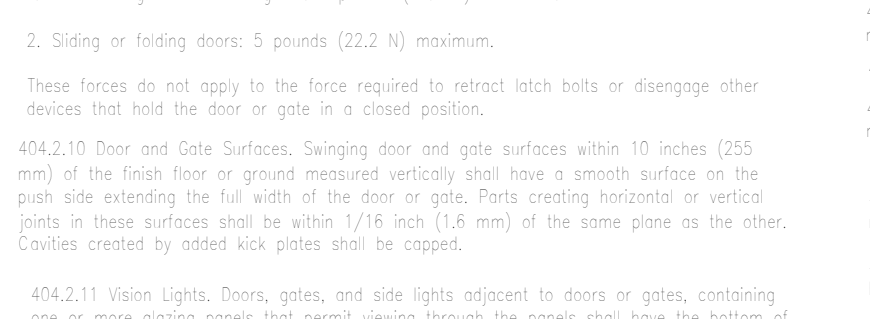


Figure 404.2.10 Spring Hinges

404.2.11 Vision Lights, Doors, Gates, and Gate

404.2.11 Vision Lights, Doors, Gates, and Gate. Vision lights, doors, gates, and gate shall be adjusted so that from an open position of 70 degrees, the door or gate shall move to the closed position in 1

**603 Toilet and Bathing Rooms**

603.2 Clearances. Clearances shall comply with 603.2.
   
 603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.
   
 603.2.2 Overlap. Required clear floor spaces, clearances at fixtures, and turning space shall be permitted to overlap.
   
 603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.
   
 603.2.4 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 20 inches (508 mm) maximum above the finish floor or ground.
   
 603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

**604 Water Closets and Toilet Compartments**

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.2.2. Water closets shall be arranged for a left-hand or right-hand approach.

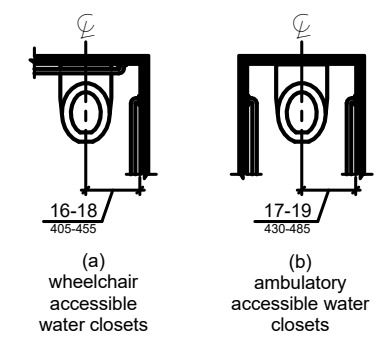


Figure 604.3 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

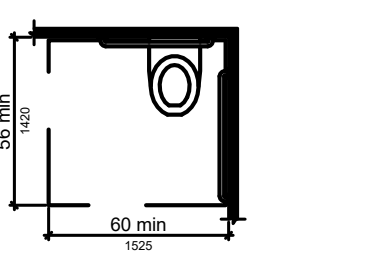


Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around a water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible toilets, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a fixed position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

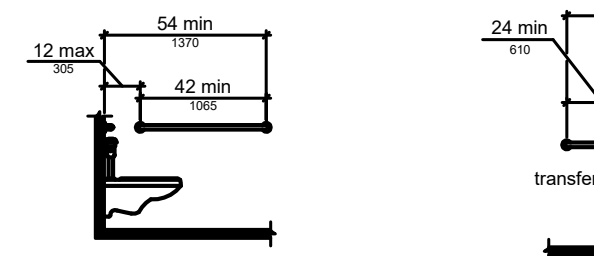


Figure 604.5.1 Side Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) minimum in one side and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 308. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.6.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 306.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be a type that controls delivery or that does not allow continuous paper flow.

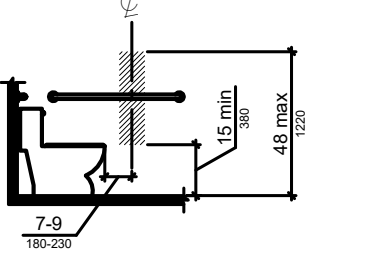


Figure 604.7 Dispenser Outlet Location

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

**606 Lavatories and Sinks**

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 308 shall be provided.
   
 606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.
   
 606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated mixing faucets shall remain open for 10 seconds minimum.
   
 606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

**607 Bathubs**

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 36 inches (915 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

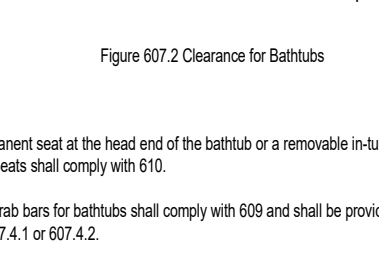


Figure 607.2 Clearance for Bathtubs

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.
   
 607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.
   
 607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

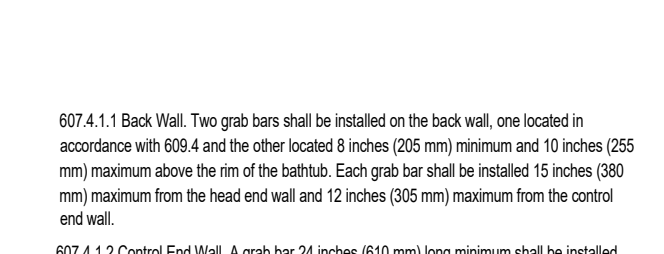


Figure 607.4.1 Back Wall Grab Bars for Standard Roll-In Type Showers

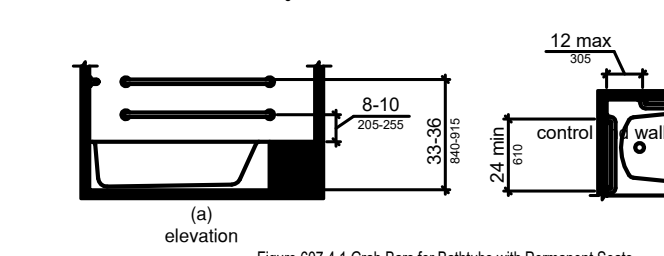


Figure 607.4.2 Grab Bars for Bathtubs with Permanent Seats

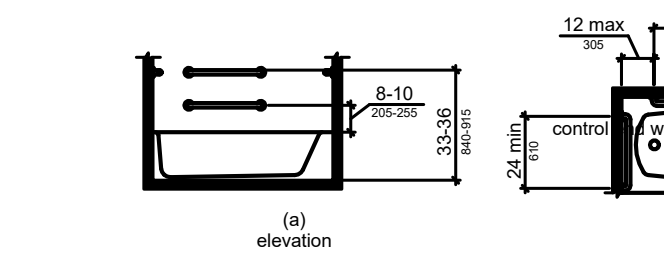


Figure 607.4.3 Grab Bars for Bathtubs with Removable In-Tub Seats

607.4.3 Bathubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.
   
 607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.
   
 607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

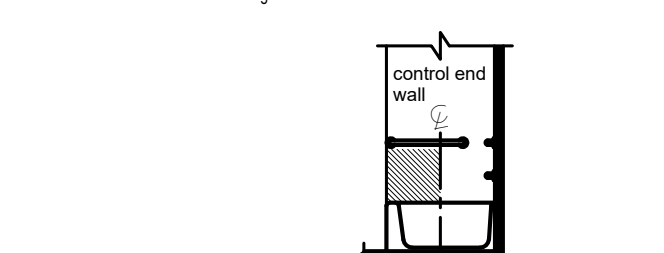


Figure 607.4.3 Bathub Control Location

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.
   
 607.6 Shower Spray Unit and Water. A shower spray unit with a hose 58 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathubs shower spray units shall deliver water that is 120°F (49°C) maximum.
   
 607.7 Bathub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

**608 Shower Compartments**

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (762 mm) wide minimum by 80 inches (2032 mm) deep minimum clear inside dimensions, dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (762 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

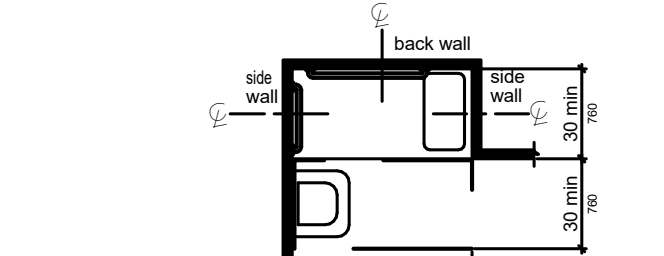


Figure 608.2.2 Standard Roll-In Type Shower Compartment Size and Clearance

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 30 inch (762 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

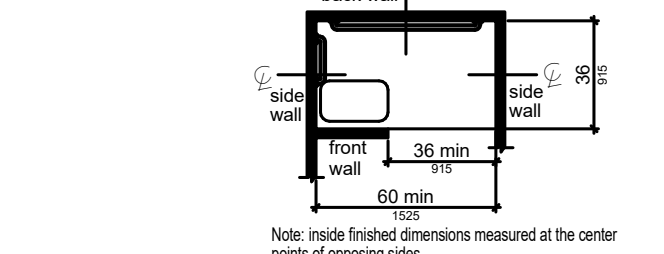


Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.



Figure 608.3 Grab Bars

608.3.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.
   
 608.3.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.
   
 608.3.3 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1.14 inches (29 mm) minimum and 2 inches (51 mm) maximum.

608.3.4 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (102 mm) minimum and 4.8 inches (120 mm) maximum.



Figure 608.3.4 Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.



Figure 609.3 Spacing of Grab Bars

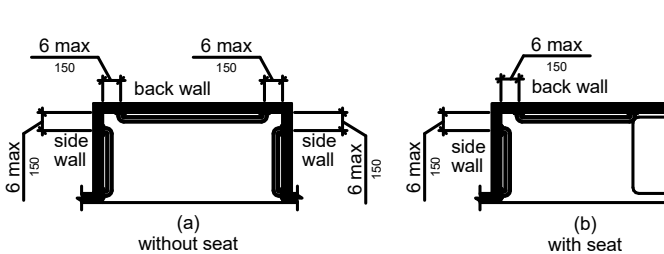


Figure 609.3.3 Grab Bars for Standard Roll-In Type Showers

609.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall furthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 8 inches (203 mm) maximum from adjacent walls.

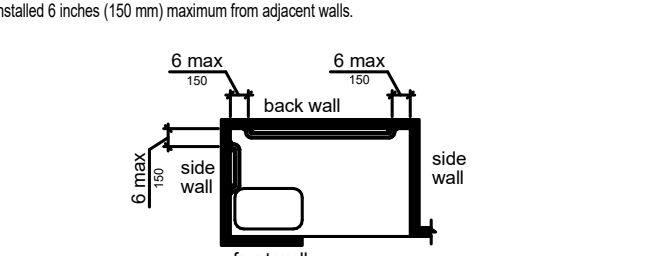


Figure 609.3.3 Grab Bars for Alternate Roll-In Type Showers

609.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 606.2. Seats shall comply with 610.

609.5 Controls, Faucets, and Shower Spray Units shall comply with 309.4.

609.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be located on the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

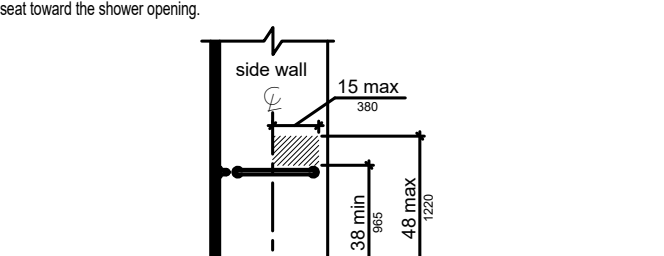


Figure 609.5.1 Transfer Type Shower Compartment Control Location

609.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 20 inches (508 mm) maximum from the seat wall.

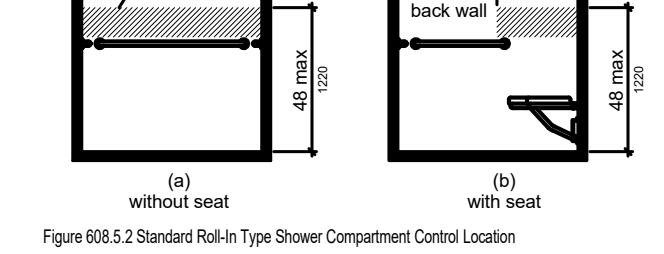


Figure 609.5.2 Standard Roll-In Type Shower Compartment Control Location

609.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located on the side wall furthest from the compartment entry.

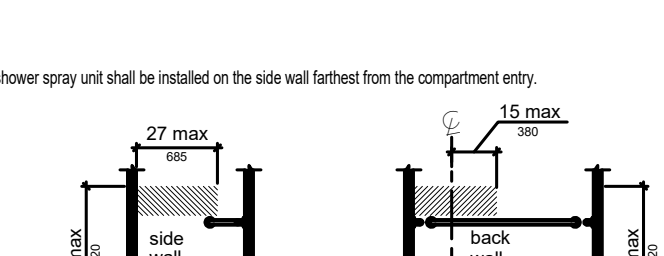


Figure 609.5.3 Alternate Roll-In Type Shower Compartment Control Location

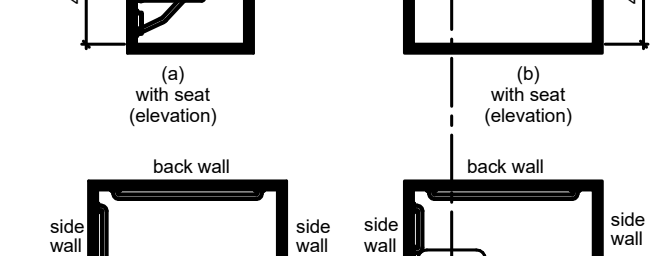


Figure 610.3.1 Rectangular Shower Seat

610.3.2 L-Shaped Shower Seat. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) minimum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

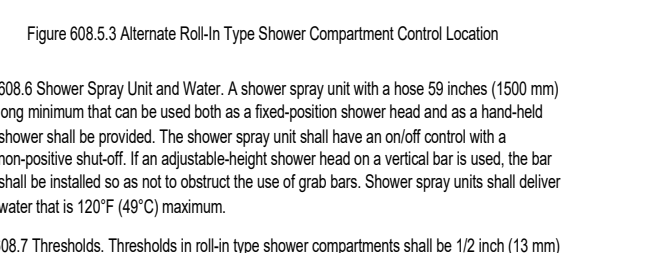


Figure 610.3.2 L-Shaped Shower Seat

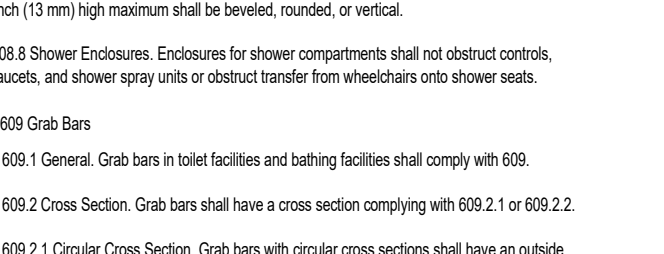


Figure 611.4 Height of Laundry Compartment Opening

611 Saunas and Steam Rooms
   
 611.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 603. Doors shall not swing into the clear floor space required by 603.2.
   
 611.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms.

**CHAPTER 6. COMMUNICATION ELEMENTS AND FEATURES**

702.0 Alarm Systems
   
 702.1 General. Fire alarm systems shall have permanently audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4.3.2.1 of NFPA 72 (1999 edition) shall have a sound level of no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4.3 and 4.4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

703 Signs
   
 703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.
   
 703.2.2 Case. Characters shall be uppercase.
   
 703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

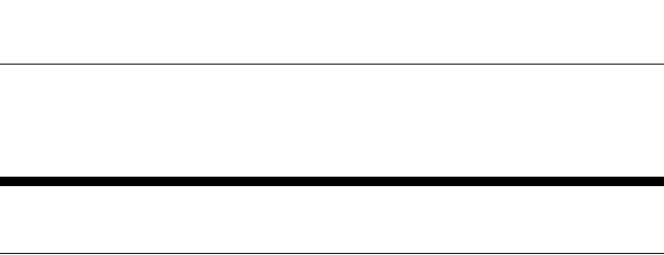


Figure 703.2.5 Height of Raised Characters

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate when they flex.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

**610 Seats**

610.2 Bathub Seats. The top of bathub seats shall be 11 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and extend from the back wall or be stepped the outer edge of the bathtub.

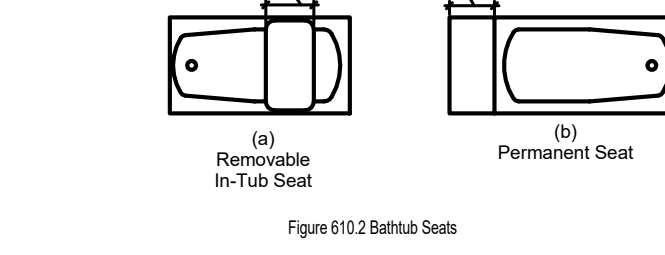


Figure 610.2 Bathub Seats

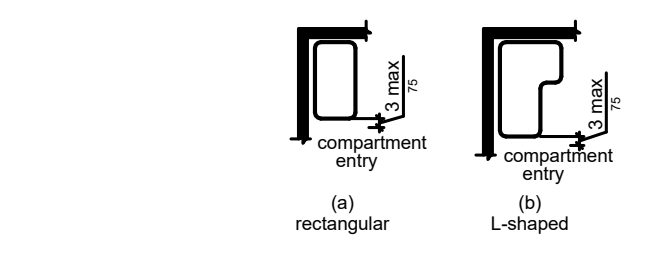


Figure 610.3 Extent of Seat

610.3.1 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

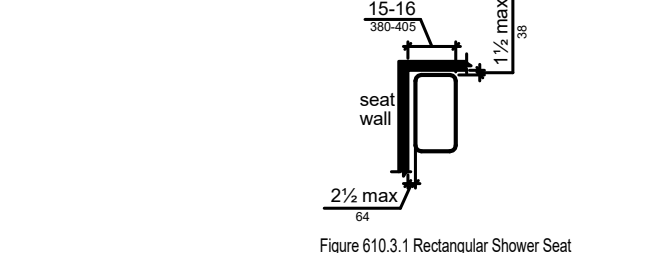


Figure 610.3.1 Rectangular Shower Seat

610.3.2 L-Shaped Shower Seat. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) minimum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

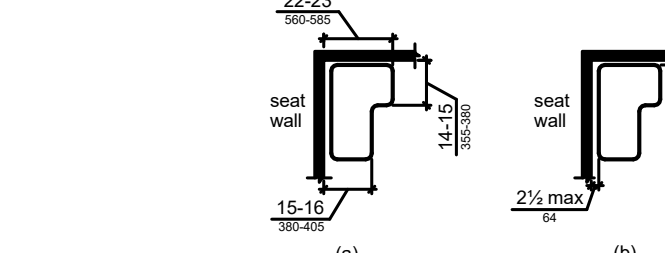


Figure 610.3.2 L-Shaped Shower Seat

610.3.2.1 Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "T" portion of the seat shall be 12 inches (305 mm) maximum from the seat wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the seat wall. The end of the "I" shall be 12 inches (305 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

**611 Washing Machines and Clothes Dryers**

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the appliance.

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 305.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

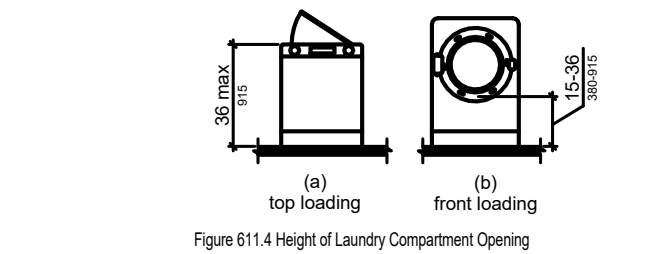


Figure 611.4 Height of Laundry Compartment Opening

612 Saunas and Steam Rooms
   
 612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall comply with 603. Doors shall not swing into the clear floor space required by 603.2.
   
 612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and steam rooms.

**CHAPTER 7. VISUAL INFORMATION AND FEATURES**

702.0 Alarm Systems
   
 702.1 General. Fire alarm systems shall have permanently audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4.3.2.1 of NFPA 72 (1999 edition) shall have a sound level of no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4.3 and 4.4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

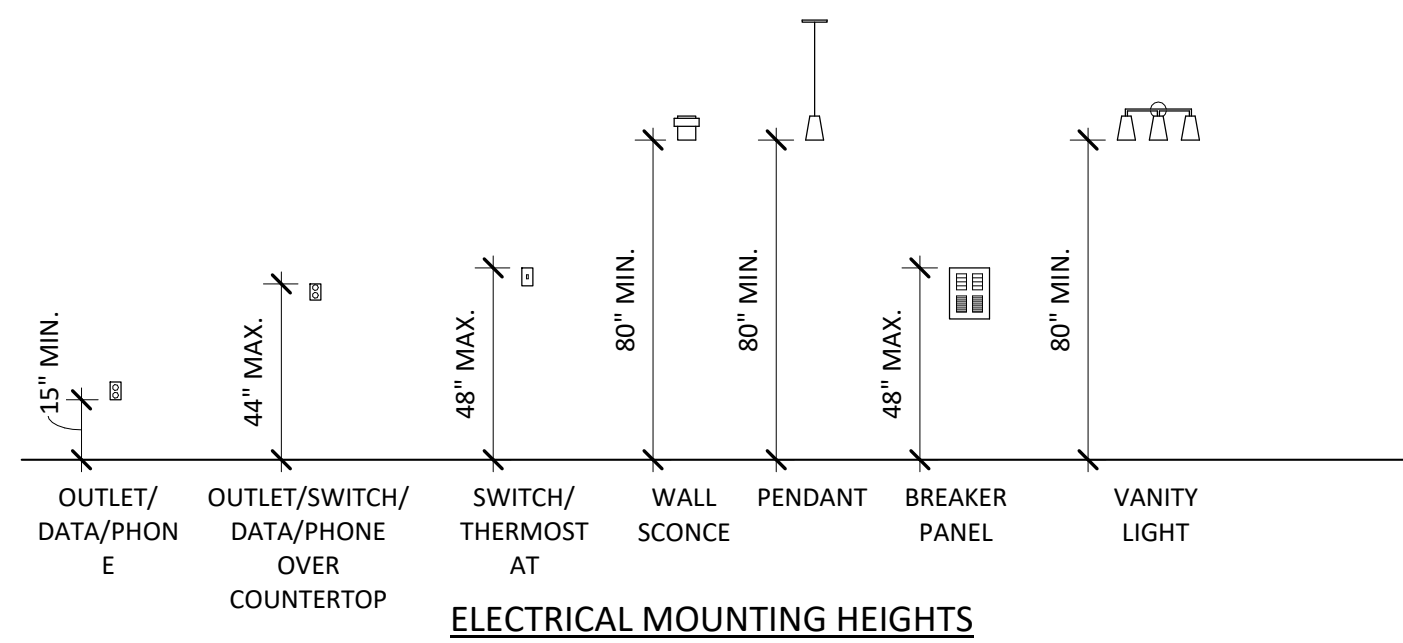
703 Signs
   
 703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.
   
 703.2.2 Case. Characters shall be uppercase.
   
 703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

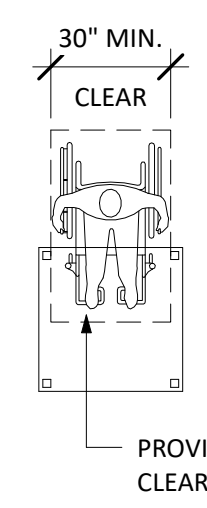
703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character



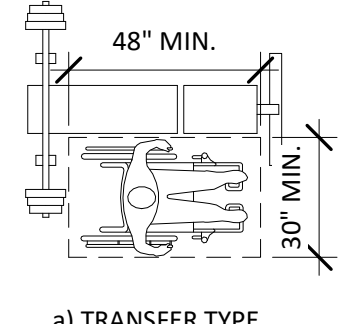
ELECTRICAL MOUNTING HEIGHTS

5 ELECTRICAL MOUNTING HEIGHT1  
1/4" = 1'-0"

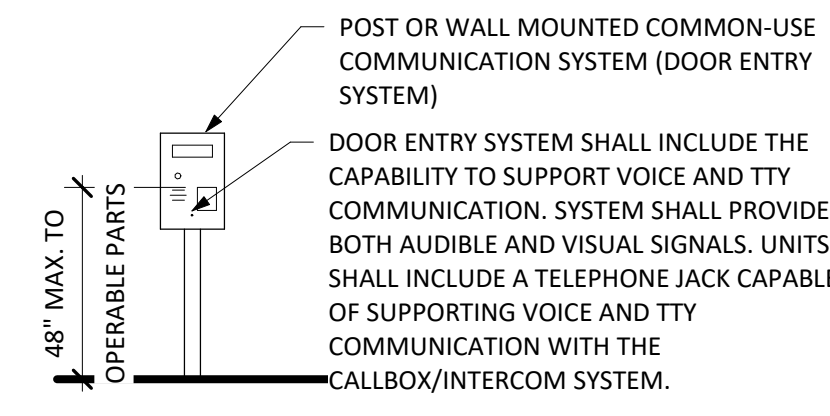


1. AT LEAST 5% OF SEATING AND STANDING SPACES AT FIXED OR BUILT-IN TABLES, COUNTERS, AND WORKSURFACES, SHALL BE ACCESSIBLE BUT NOT LESS THAN ONE AND SHALL BE DISTRIBUTED THROUGHOUT THE SPACE PER IBC SEC. 1109.10.
2. WHERE DINING SURFACES FOR THE CONSUMPTION OF FOOD AND DRINK ARE PROVIDED, AT LEAST 5% BUT NOT LESS THAN ONE, OF THE DINING SURFACES FOR THE SEATING AND STANDING SPACES SHALL BE ACCESSIBLE AND BE DISTRIBUTED THROUGHOUT THE FACILITY PER IBC SEC. 1108.2.9.1.

BREAKFAST SEATING  
IBC SEC. 1109.10

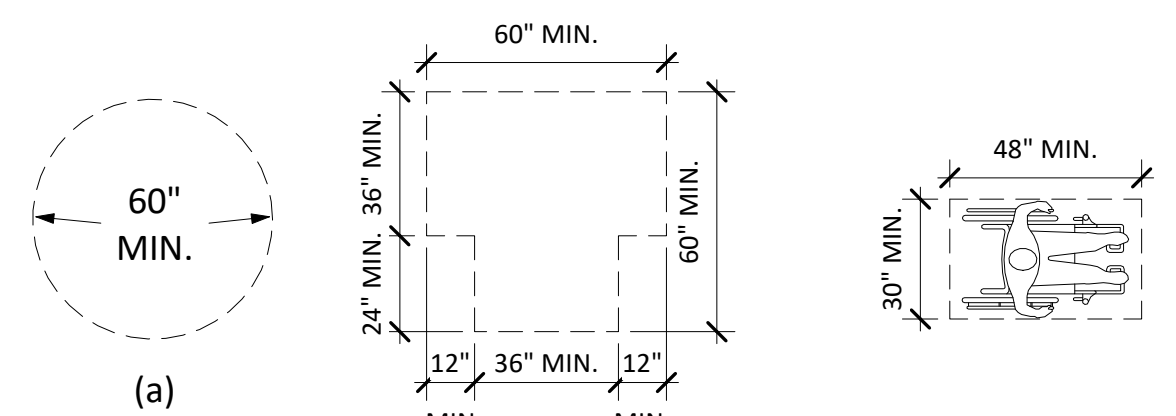


a) TRANSFER TYPE  
CLEAR FLOOR SPACE AT EXERCISE EQUIPMENT  
ADA (2010) SEC. 1004

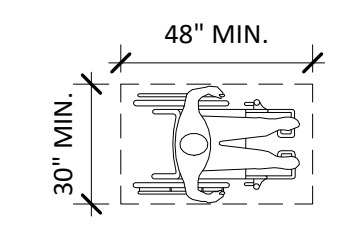


COMMON-USE COMMUNICATION SYSTEM  
ADA (2010) SEC. 230 & ICC A117.1-2009 SEC. 1005.6

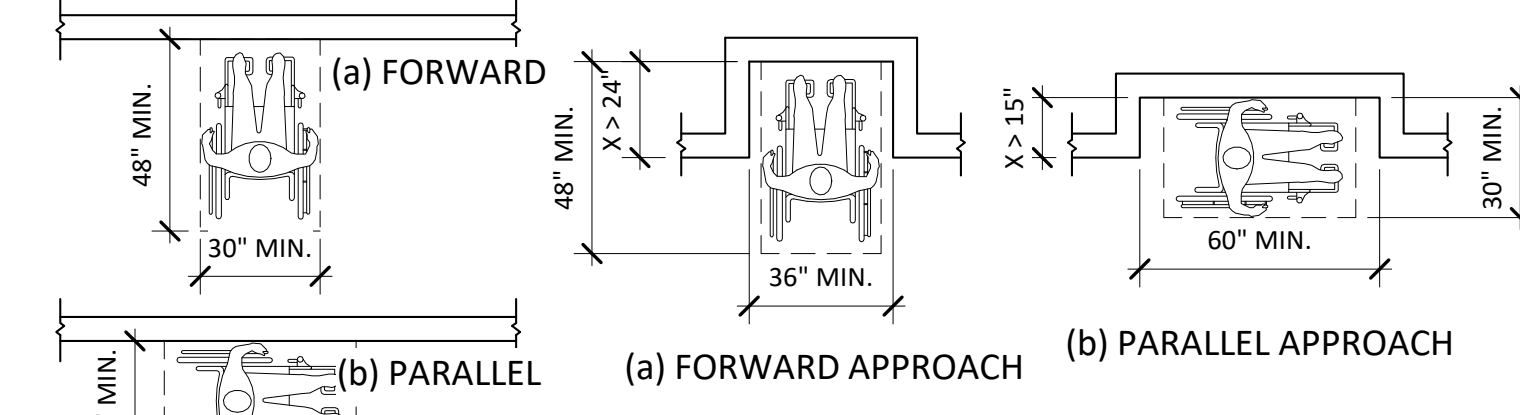
3 COMMON ACCESSIBLE ELEMENTS2  
1/4" = 1'-0"



CIRCULAR AND T-SHAPED TURNING SPACE  
FIG. 304.3



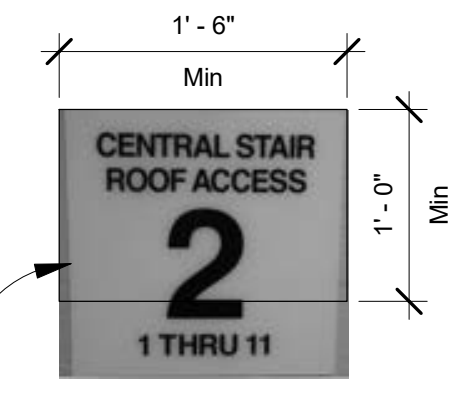
SIZE OF CLEAR FLOOR SPACE  
FIG. 305.3



MANEUVERING CLEARANCE IN ALCOVE  
FIG. 305.5

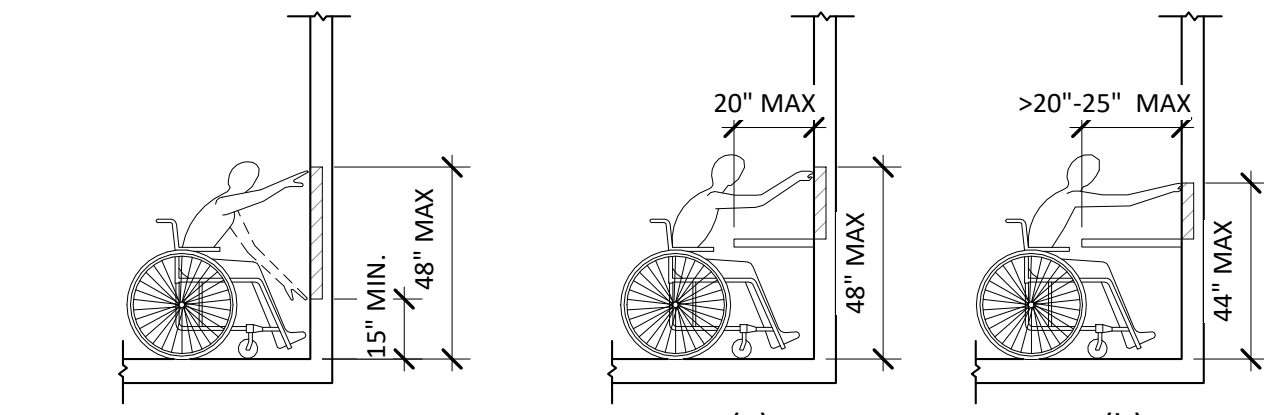
3 CLEAR FLOOR OR GROUND SPACE  
1/4" = 1'-0"

1. The signs shall be a minimum size of 18 inches (457mm) by 12 inches (305 mm).
2. The letters designating the identification of the interior exit stairway and ramp shall be not less than 1 1/2 inches (38 mm) in height.
3. The number designating the floor level shall be not less than 5 inches (127 mm) in height and located in the center of the sign.
4. Other lettering and numbers shall be not less than 1 inch (25 mm) in height.
5. Characters and their background shall have a nonglare finish. Characters shall contrast with their background, with either light characters on a dark background or dark characters on a light background.
6. Where signs required by Section 1023.9 are installed in the interior exit stairways and ramps of buildings subject to Section 1025, the signs shall be made of the same materials as required by Section 1025.4.

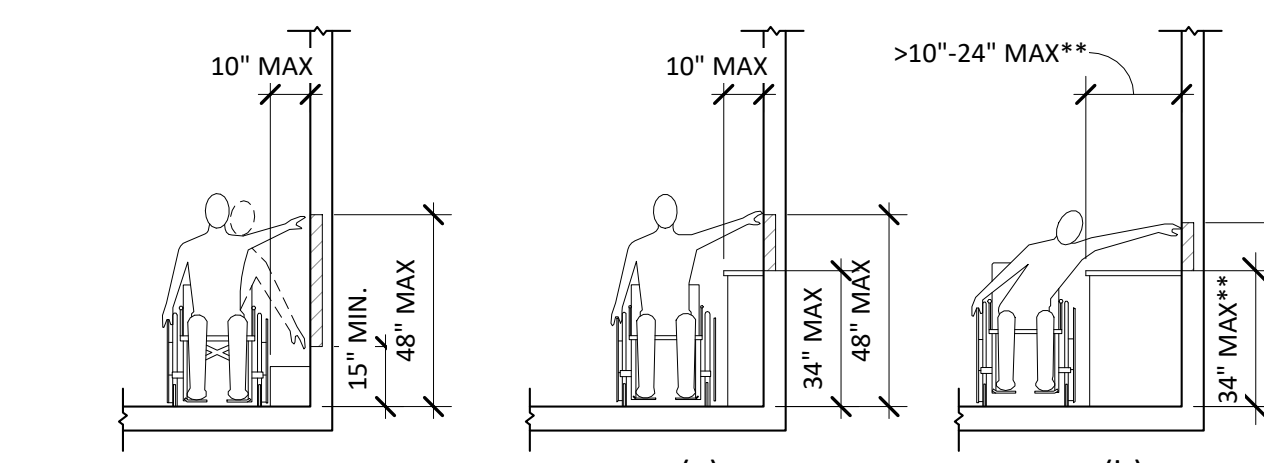


Sign Example - Contractor to design sign for each stairwell and floor.  
Note: Install sign per IBC 1023.9

4 Stair Floor Level Sign1  
1" = 1'-0"



UNOBSTRUCTED FORWARD REACH  
FIG 308.2.1  
UNOBSTRUCTED HIGH FORWARD REACH  
FIG 308.2.2



UNOBSTRUCTED HIGH SIDE REACH  
FIG. 308.3.1  
OBSTRUCTED HIGH SIDE REACH  
FIG 308.3.2

\*\* IN TYPE B UNITS WITHIN KITCHENS AND BATHROOMS, LIGHTING CONTROLS, ELECTRICAL SWITCHES AND RECEPTACLE OUTLETS ARE PERMITTED TO BE LOCATED OVER CABINETS WITH COUNTERTOPS 36" MAX. IN HEIGHT AND 25-1/2" MAX. IN DEPTH PER SEC. 1004.9 EXCEPTION 10.

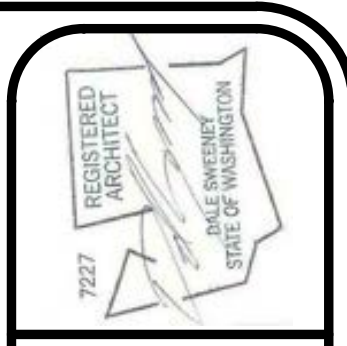
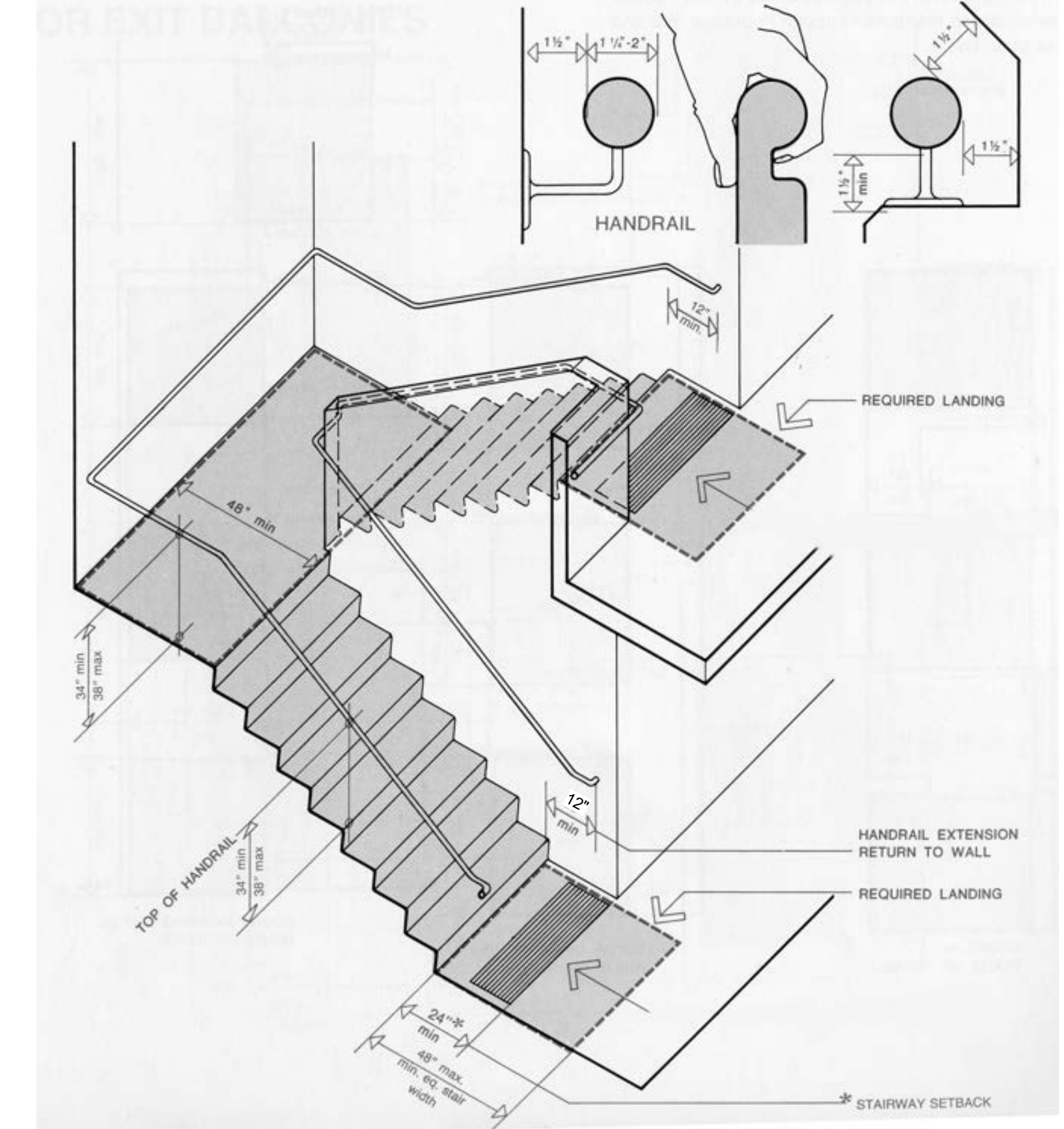
6 REACH RANGES  
1/4" = 1'-0"

ADDITIONAL BARRIER FREE NOTES

- A. ALL FLOOR COVERING SURFACES WHICH ARE PART OF AN ACCESSIBLE ROUTE SHALL BE FIRM, STABLE, AND SLIP RESISTANT. ICC/ANSI 302.1
- B. TOILET FLUSH CONTROLS SHALL BE MOUNTED FOR USE FROM THE WIDE SIDE OF THE WATER CLOSET AREA. ICC 604.6. FAUCET CONTROL HANDLES AND FLUSH CONTROLS SHALL HAVE LEVER OR OTHER SHAPE PERMITTING OPERATION BY WRIST OR ARM PRESSURE AND NOT REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING TO OPERATE. ICC 309.4. LAVATORIES SHALL BE MOUNTED TO COMPLY WITH THE FOLLOWING: MINIMUM CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON, AND 27" TO THE BOTTOM OF THE SINK; THE COUNTER OR RIM NO HIGHER THAN 34" FROM THE FLOOR; SINK SHALL BE MAX OF 6 1/2" DEEP; HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED; SHARP OR ABRASIVE SURFACES UNDER LAVATORIES ARE NOT PERMITTED. A CLEAR FLOOR SPACE AT LEAST 30"x48" SHALL BE PROVIDED IN FRONT OF LAVATORIES.
- C. UNISEX TOILET ROOMS SHALL BE PROVIDED WITH PRIVACY LOCK. IBC 1109.2.1.7
- D. THE ACCESSIBLE UNIT TUBS SHALL BE PROVIDED 2 GRAB BARS. ONE GRAB BAR SHALL BE 9" ABOVE THE RIM OF THE TUB THE OTHER 33"-36" ABOVE THE FLOOR OF THE ROOM.
- E. WHERE AN ACCESSIBLE DRINKING FOUNTAIN IS PROVIDED, AT LEAST ONE STANDARD HEIGHT DRINKING FOUNTAIN (39"-42" SPOUT HEIGHT) AND ONE AT THE ACCESSIBLE HEIGHT (MAX 36") SHALL BE PROVIDED. IBC 1109.5.
- F. ACCESSIBLE SEATING FOR PEOPLE IN WHEELCHAIRS SHALL HAVE KNEE SPACES AND TOE CLEARANCES PER ICC 306.2 & 306.3. CUSTOMER SERVICE COUNTERS SHALL INCLUDE AN ACCESSIBLE PORTION, NOT LESS THAN 36" LONG AND NOT MORE THAN 36" ABOVE THE FINISH FLOOR PER ICC 904.3. COMMON USE SINKS ARE REQUIRED TO BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34" ABOVE THE FINISH FLOOR. FAUCETS SHALL HAVE CONTROLS AND OPERATING MECHANISMS OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST PER ICC 309.4.
- G. SWITCHES, ENVIRONMENTAL CONTROLS, ETC. SHALL BE LOCATED NOT OVER 48" (FORWARD REACH), 54" (SIDE REACH), AND NOT LESS THAN 36" ABOVE THE FLOOR. NOTE: OBSTRUCTIONS ADJACENT TO THE SWITCHES WILL CHANGE THESE HEIGHT REQUIREMENTS. SEE THE APPROPRIATE CODE SECTION. ELECTRICAL AND COMMUNICATION RECEPTACLES SHALL NOT BE LESS THAN 15" OFF THE FLOOR, MEASURED TO THE BOTTOM OF THE RECEPTACLE. ICC 308.
- H. A MINIMUM OF 2 HEARING IMPAIRED ROOMS ARE REQUIRED. SEE IBC 907.3.1.2. EACH HEARING IMPAIRED ROOM SHALL BE PROVIDED A TELEPHONE COMPLYING WITH ICC 704. THE HIGHEST OPERABLE PART OF A TELEPHONE SHALL BE A MAX 54" ABOVE THE FLOOR. VOLUME CONTROLS SHALL BE HEARING AID COMPATIBLE, CAPABLE OF INCREASING VOLUME NOT LESS THAN 12 DECIBELS OR MORE THAN 20 DECIBELS ABOVE NORMAL. THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL NOT BE LESS THAN 29" LONG. ICC 703.2.2, 703.2.4, 703.3
- I. EMERGENCY WARNING SYSTEMS, WARNINGS, AND SIGNAGE SHALL COMPLY WITH IBC 907.9. BOTH AUDIBLE AND VISUAL ALARMS SHALL BE PROVIDED.
- J. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AND BE CENTERED 60" ABOVE THE FINISHED FLOOR. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT AN 18" X 18" CLEAR FLOOR AREA, CENTERED ON THE SIGNAGE, IS PROVIDED BEYOND THE ARC OF THE DOOR. ICC 703.3.1. THE FINISH, COLOR, CHARACTER PROPORTIONS, HEIGHT, RAISED OR BRAILLE CHARACTERS, AND PICTORIAL SYMBOLS SHALL BE AS REQUIRED IN ICC 703.

STAIRS:

- A. STAIRS SYSTEMS TO COMPLY WITH IBC 1022.6 AND ICC/ANSI A117.1
- B. STAIR HANDRAILS AND HANDRAIL EXTENSIONS TO BE ON BOTH SIDES OF STAIRWAYS.
- C. OPEN RISERS ARE NOT PERMITTED PER ICC/ANSI 504.3
- D. FORWARD 2" OF STAIR TREAD TO HAVE HI CONTRAST TREATMENT



Dale Swency  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLN-001  
DATE: 6/26/2017  
DWN BY: Author  
CHKD BY: Checker  
RVS'D:

NO.	DATE	Revision Description

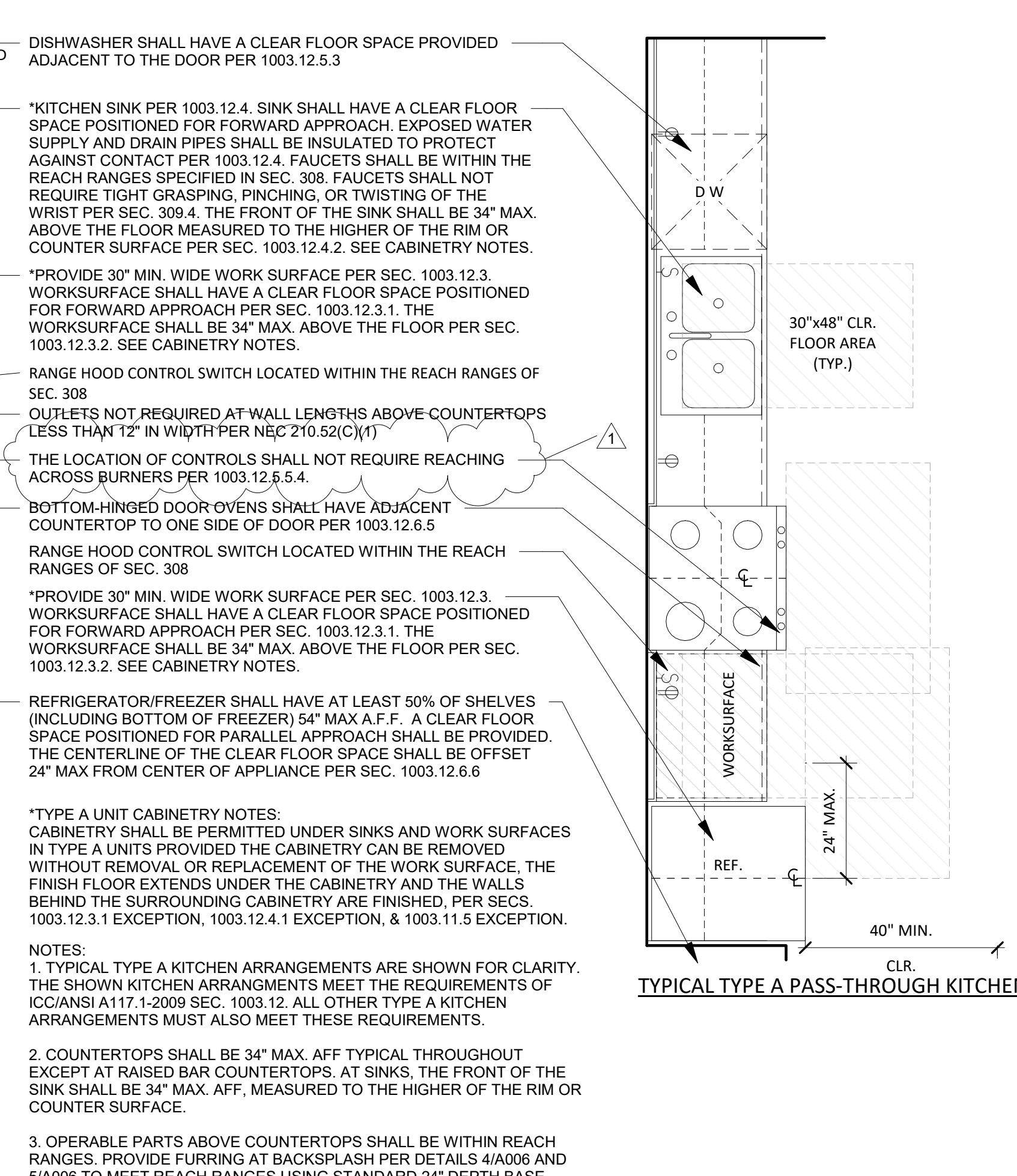
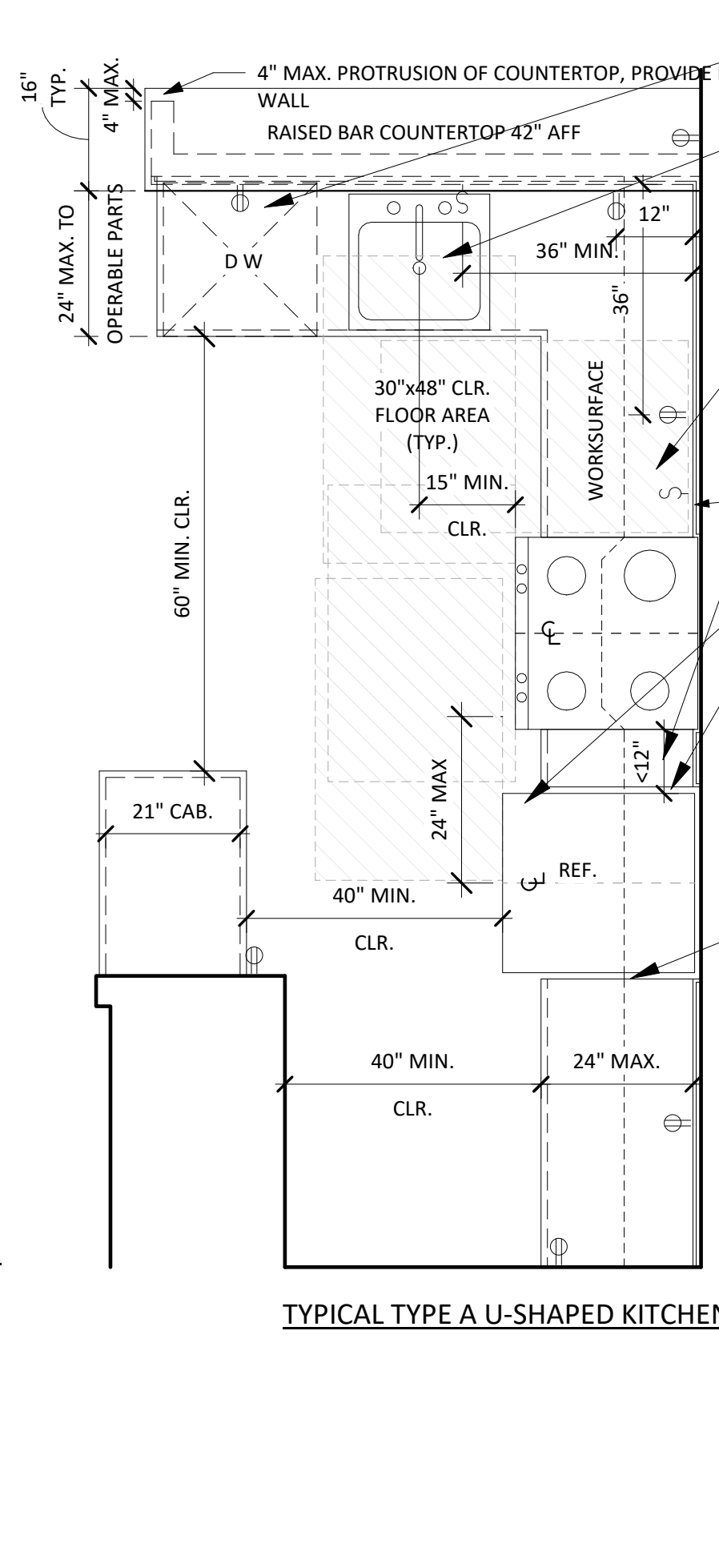
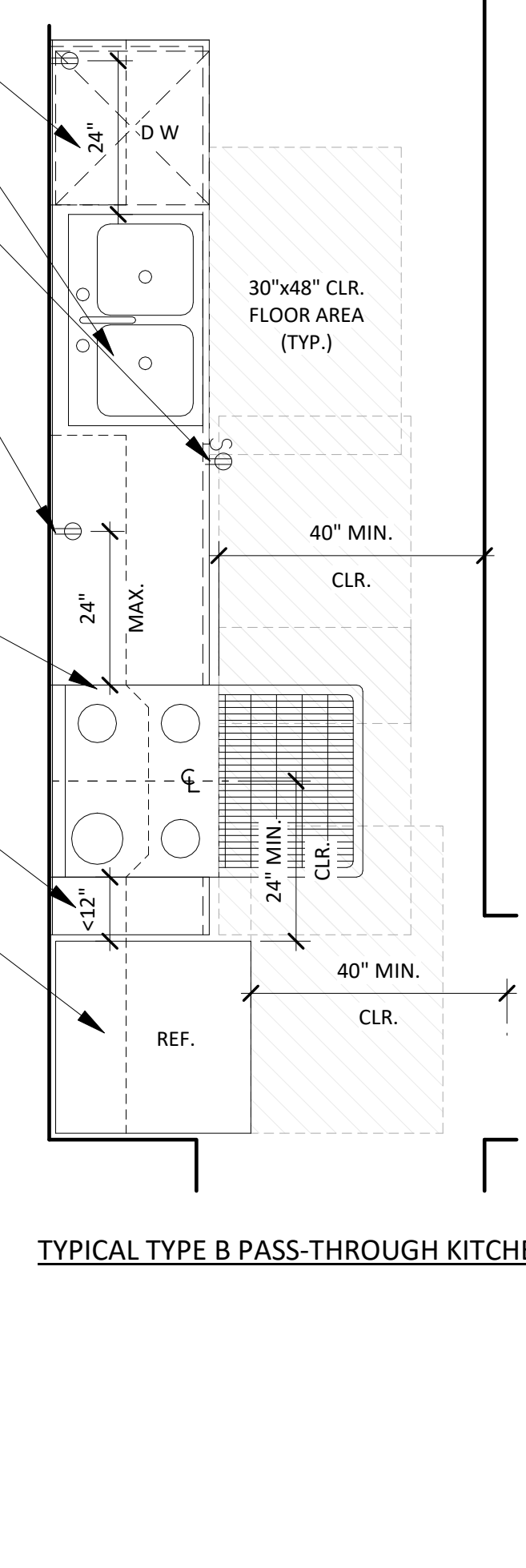
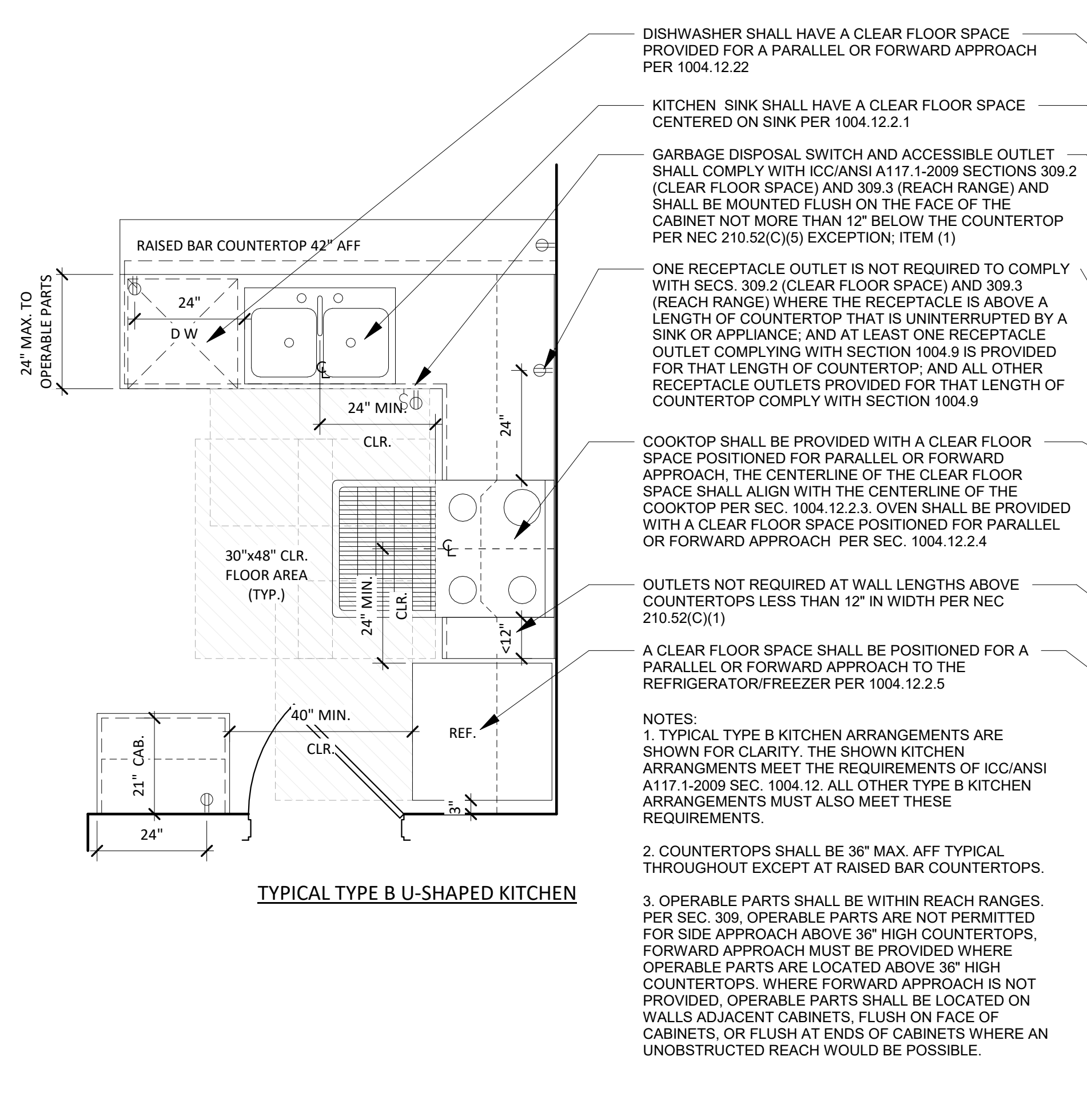
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TP HOME 22 UNIT APTS. 2152  
TP Home LLC  
2152 N 185TH ST.

Barrier Free Details

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SHEET NO.  
A009



- NOTES:**
- PROVIDE WOOD BLOCKING IN THE PARTITION WALLS AS REQ'D TO MOUNT THE ACCESSORIES SHOWN. INSTALL ACOUSTIC BATT INSUL. BEHIND ALL RECESSED OR SEMI-RECESSED ACCESSORIES.
  - PROVIDE SURFACE MOUNT ACCESSORIES AT FIRE-RATED WALL ASSEMBLIES. SURFACE MOUNTED ACCESSORIES SHALL MEET THE REQUIREMENTS FOR PROTRUDING OBJECTS. REF DETAIL 6/A004.

TOILET ACCESSORIES	
MARK	ITEM
A	TOILET PAPER DISPENSER RECESSED, DOUBLE ROLL
B	GRAB BAR - 1 1/2" DIA., S/S, PREENED GRIP, SNAP FLANGE
C	TOWEL BAR
D	MIRROR - S/S ANGLE FRAME. INSTALL 40" MAX A.F.F.
E	COAT HOOK
F	EXHAUST FAN
G	SOAP DISPENSER
H	PAPER TOWEL DISP/RECEP. RECESSED
J	TOILET PAPER HOLDER

**6 TYPICAL TYPE B KITCHEN REQUIREMENTS 1**

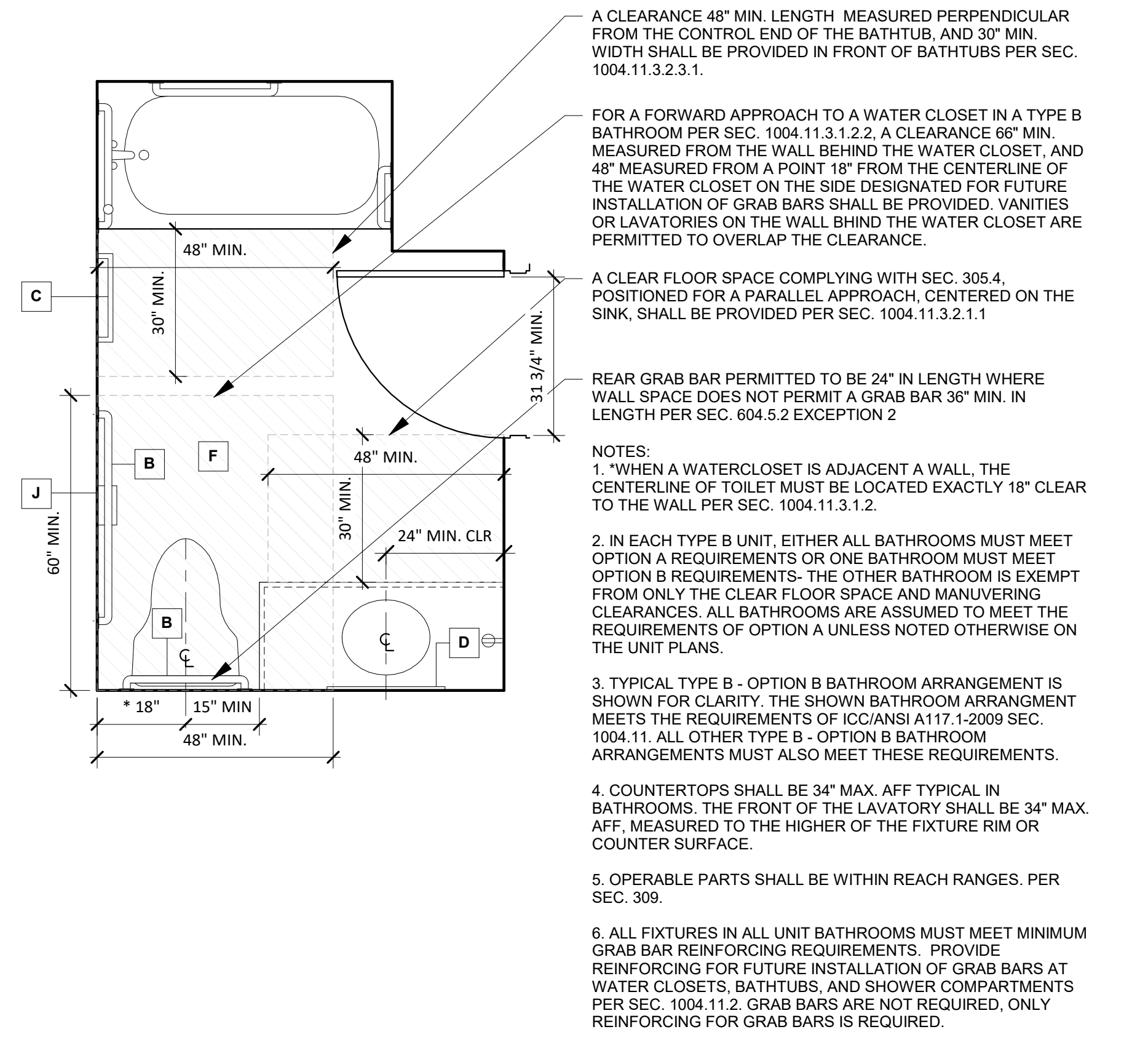
SCALE: 1/2" = 1'-0"

**5 TYPICAL TYPE A KITCHEN REQUIREMENTS 1**

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

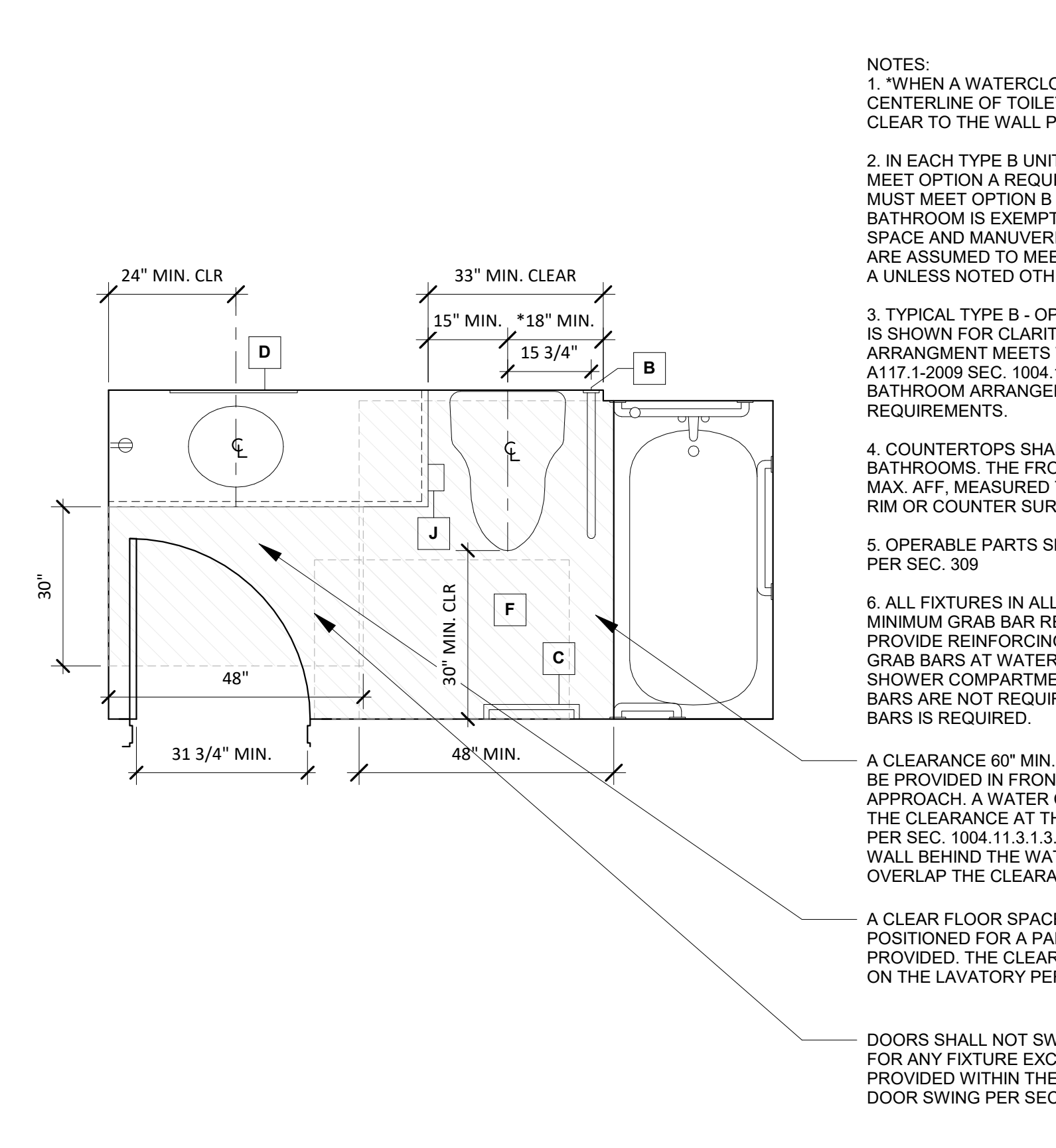
**4 TYPE A AND COMMON AREA KITCHEN CABINETS**

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



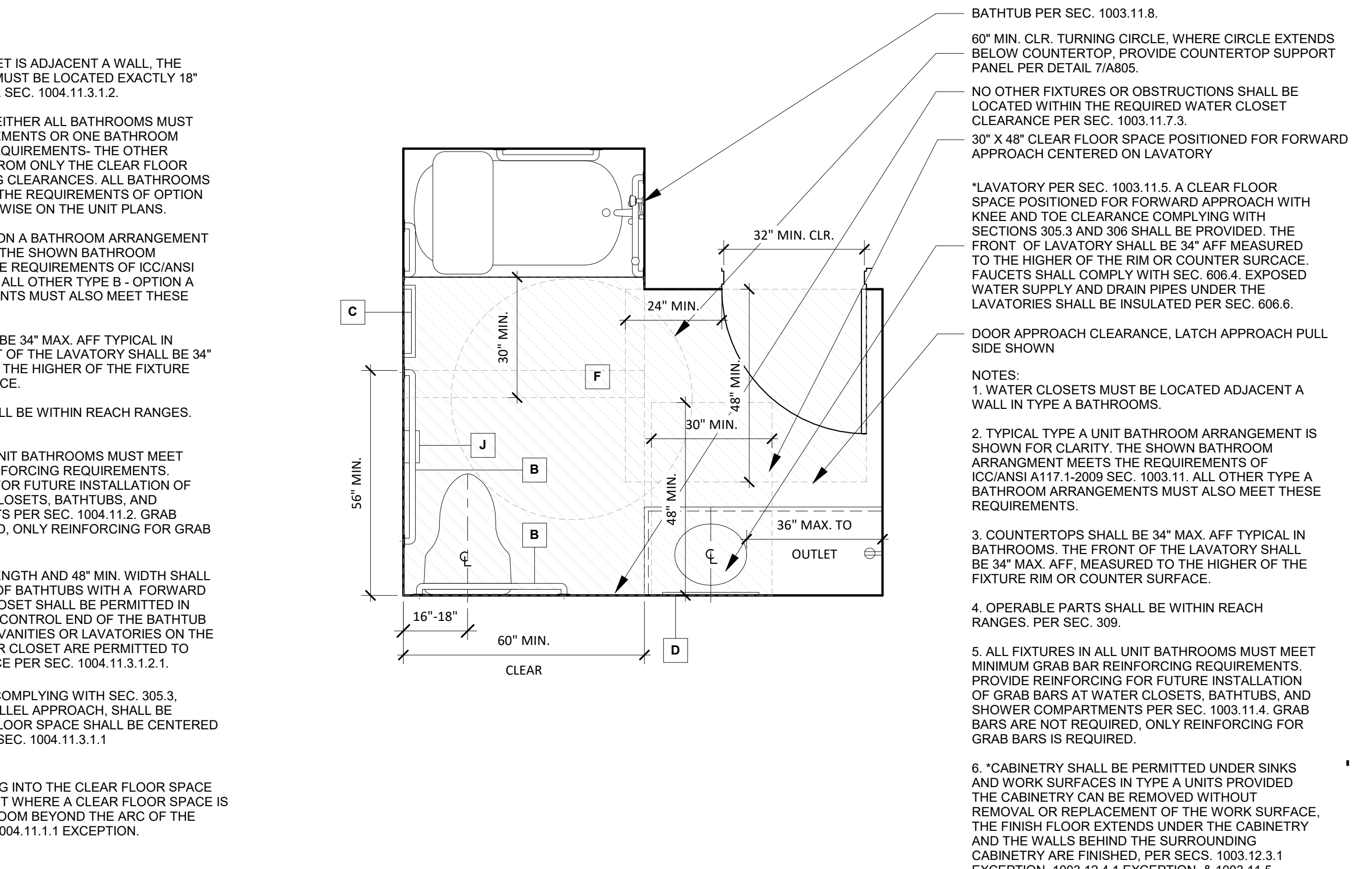
**3 TYP. CLEARANCE REQUIREMENTS AT TYPE B UNIT BATHROOM - OPTION B**

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



**2 TYP. CLEARANCE REQUIREMENTS AT TYPE B UNIT BATHROOM - OPTION A**

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



**1 TYP. CLEARANCE REQUIREMENTS AT TYPE A UNIT BATHROOM**

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

**Dale Swency ARCHITECT**  
5715 143rd Place SE  
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JOB NO. SHRLN-001  
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RVS'D:

REVISIONS  
Revision Description  
City Comments

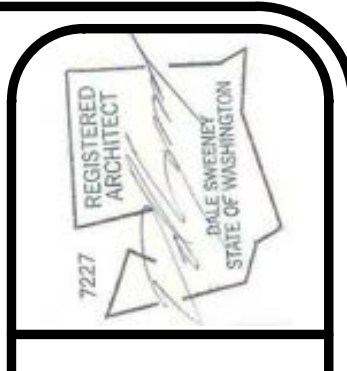
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1 9/8/19

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**Barrier Free Details**

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**SHEET NO.  
A010**



**Dale Sweeney**  
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5715 143rd Place SE  
Bellevue, WA 98006

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DATE: 6/26/2017  
DWN. BY: Author  
CHKD BY: Checker  
RVS:

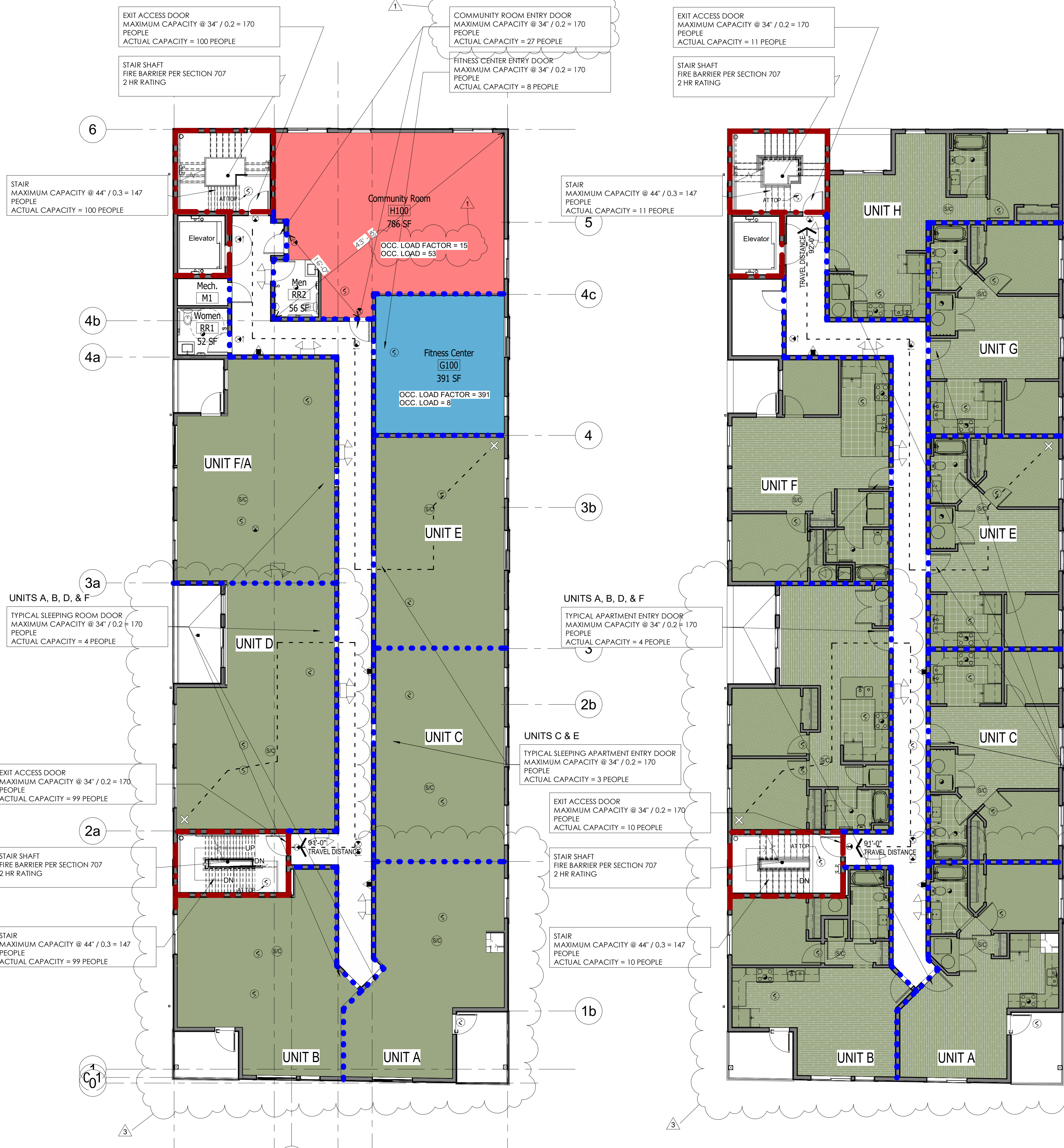
NO.	DATE	Revision Description
1	9/8/19	City Comments
2	1/15/21	City Comments

**TP HOME 22 UNIT**  
**APTS. 2152**  
TP Home LLC  
2152 N 185TH ST.

**LIFE SAFETY PLANS**  
**LEVELS 2-4**

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**A020**



### LIFE SAFETY SYMBOLS LEGEND

- TWO HOUR FIRE RESISTANCE RATED WALL
- ONE HOUR FIRE RESISTANCE RATED WALL
- MAXIMUM TRAVEL DISTANCE TO REACH EXIT
- - - - COMMON PATH OF EGRESS TRAVEL
- - - - MAXIMUM OVERALL DIAGONAL DISTANCE OF BUILDING
- - - - SEPARATION DISTANCE OF EXIT ACCESS DOORS
- ⊗ LOCATION OF MOST DISTANT OCCUPANT
- ⬇ EXIT DISCHARGE
- ☉ CEILING MOUNTED ILLUMINATED EXIT SIGN
- ☉ SMOKE DETECTOR  
NOTE: SMOKE DETECTORS ARE REQUIRED TO BE MIN. 3FT. FROM BATHROOM DOORS.
- ☉ COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
- ☉ THERMAL DETECTOR
- ☉ MULTIPURPOSE DRY CHEMICAL EXTINGUISHER: 2-A:10-B:C
- ☉ SPECIAL PURPOSE KITCHEN FIRE EXTINGUISHER UL LISTED TO 711A AND MEETS NFPA 10

### EGRESS COMPONENT IDENTIFIERS

- CP COMMON PATH OF EGRESS TRAVEL
- EA EXIT ACCESS TRAVEL DISTANCE
- PARKING S-2
- RESIDENTIAL R-1
- RESIDENTIAL - ACCESSORY USE
- ASSEMBLY

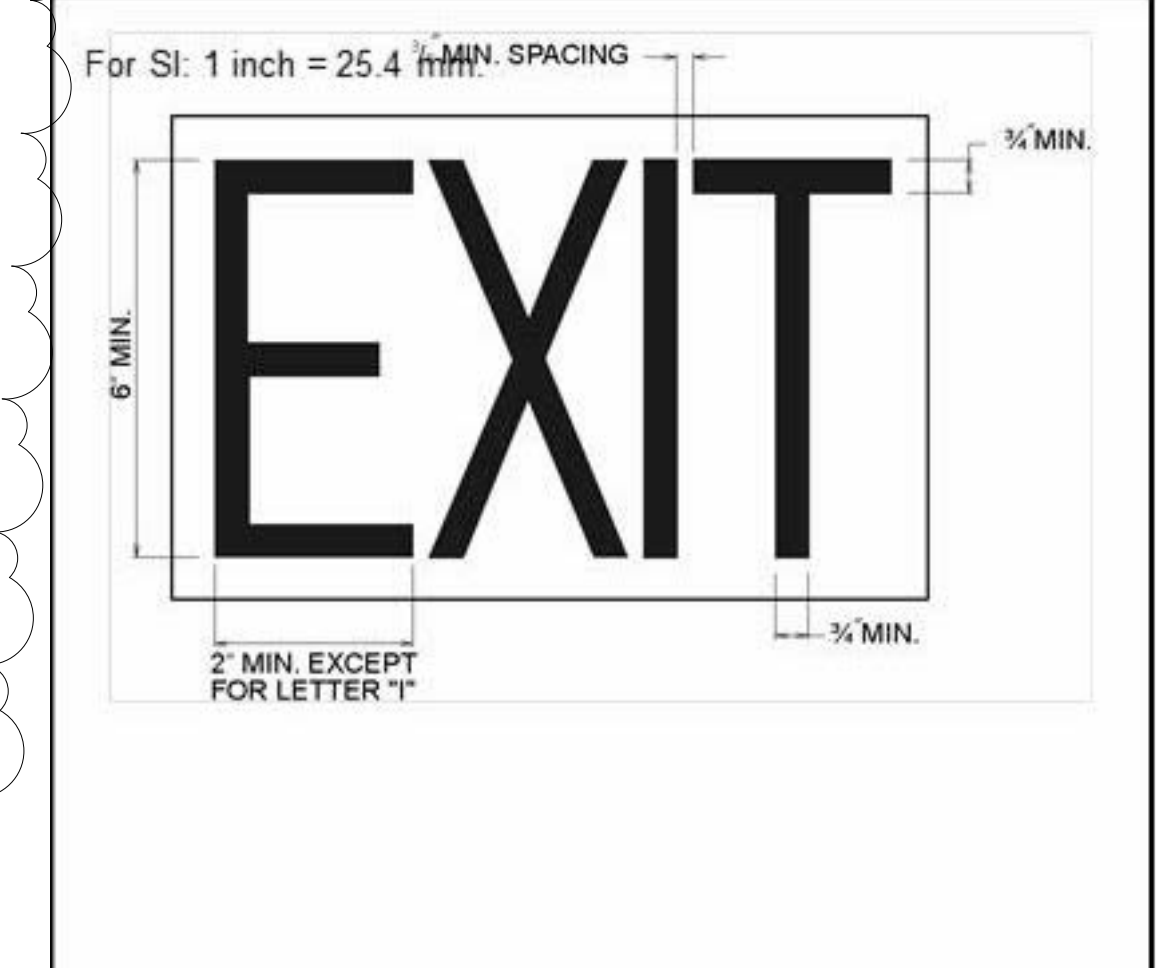
**[F] 907.2.11.3 Installation near cooking appliances.** Smoke alarms shall not be installed in the following locations unless this would prevent placement of a smoke alarm in a location required by Section 907.2.11.1 or 907.2.11.2:

- Ionization smoke alarms shall not be installed less than 20 feet (6096 mm) horizontally from a permanently installed cooking appliance.
- Ionization smoke alarms with an alarm-silencing switch shall not be installed less than 10 feet (3048 mm) horizontally from a permanently installed cooking appliance.
- Photoelectric smoke alarms shall not be installed less than 6 feet (1829 mm) horizontally from a permanently installed cooking appliance.

### OCCUPANT LOAD CALCULATIONS

FUNCTION OF SPACE	AREA SQ. FT.	LOAD FACTOR SQ. FT./PERSON TABLE 1004.1.2	OCCUPANT LOAD
<b>LEVEL 2</b>			
RESIDENTIAL	4,060	200 GROSS	21
RESIDENTIAL - ACCESSORY USE	394	50 GROSS	8
ASSEMBLY	850	5 GROSS	170
<b>TOTAL LEVEL 2</b>			<b>199</b>
<b>LEVEL 3</b>			
RESIDENTIAL	5,268	200 GROSS	21
<b>LEVEL 4</b>			
RESIDENTIAL	5,268	200 GROSS	21
<b>TOTAL OCCUPANT LOAD</b>			<b>241</b>

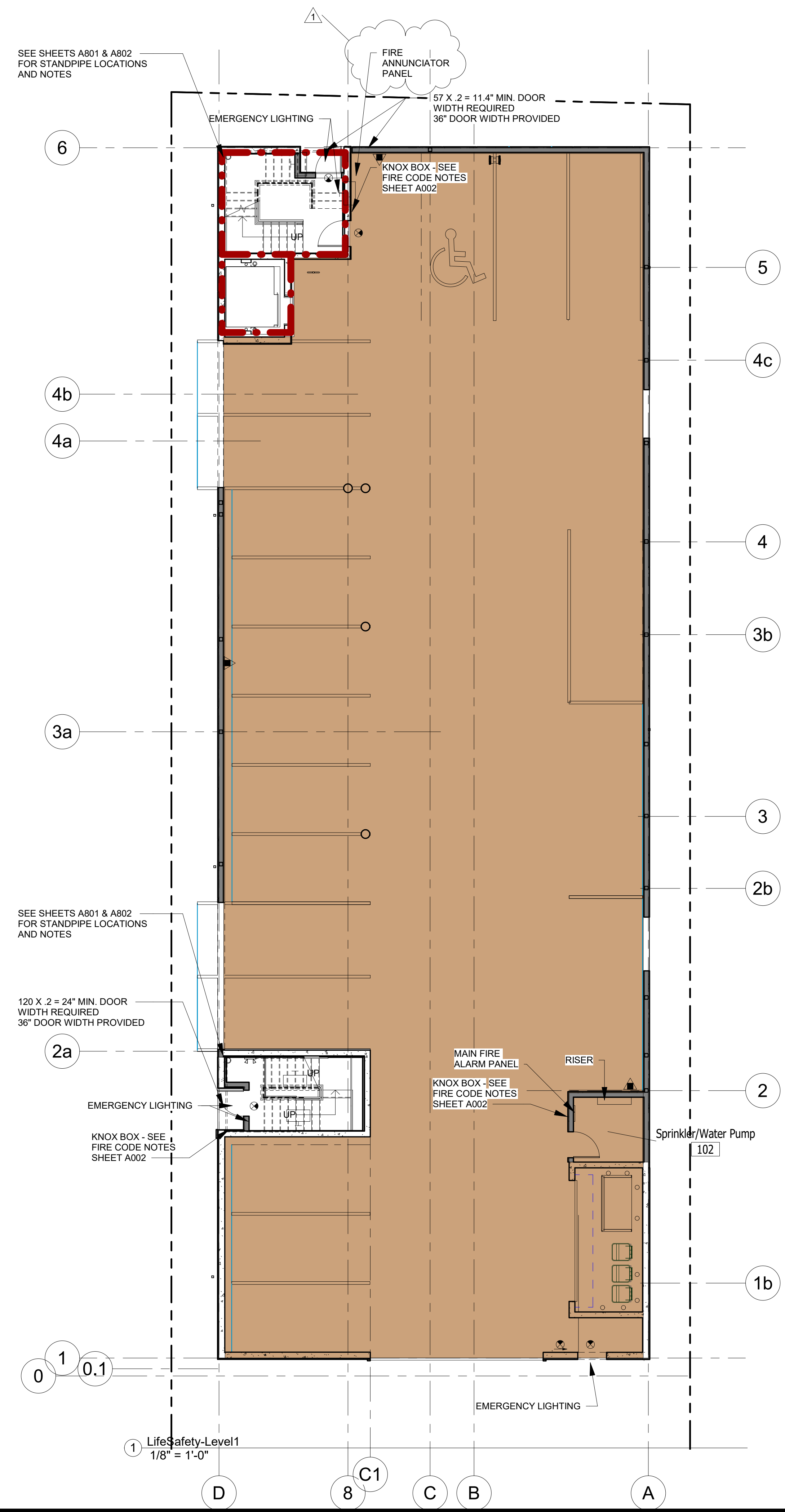
- ### LIFE SAFETY NOTES
- SEE SHEET A003 FOR BUILDING CODE INFORMATION
  - ALL PENETRATIONS THROUGH DESIGNATED FIRE RATED FLOOR/CEILING OR WALL ASSEMBLIES SHALL BE SEALED WITH A UL CLASSIFIED THROUGH PENETRATION FIRE STOP SYSTEM THAT IS SUITABLE FOR THE PENETRATION CONDITION
  - ALL BEARING WALLS ARE REQUIRED BY CODE TO BE 1-HR RATED.
  - REFER TO STRUCTURAL DRAWINGS FOR BEARING WALLS.
  - REFER TO CONSTRUCTION ASSEMBLY SCHEDULES FOR FIRE RESISTANCE RATINGS AND ASSEMBLIES.
  - ALL CORRIDORS ARE TO BE 1 HR RATED MIN. UNO
  - PARTY WALLS BETWEEN UNITS TO BE 1 HOUR RATED MIN. UNO
  - FIRE EXTINGUISHERS SHALL BE IN RECESSED CABINETS. APPROXIMATE LOCATIONS ARE SHOWN ON THE LIFE SAFETY PLAN. FIRE EXTINGUISHER TYPES, LOCATIONS AND QUANTITIES SHALL BE VERIFIED AND INSTALLED BY A LICENSED PORTABLE FIRE EXTINGUISHER COMPANY IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. ALL FIRE EXTINGUISHERS NOT LOCATED IN THE PATH OF EGRESS SHALL HAVE ADDITIONAL SIGNAGE LOCATED IN THE PATH OF EGRESS TRAVEL. SIGNAGE CHARACTERISTICS SHALL BE AS SUBMITTED BY THE G.C. AND APPROVED BY THE ARCHITECT.
  - EXIT SIGNS IN R2 AREAS ARE TO COMPLY WITH IBC 1013:
    - ADDITIONAL LOW SIGNS ARE REQUIRED. THE BOTTOM SIGN SHALL NOT BE LESS THAN 10" NOR MORE THAN 12" ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL. WHERE THE SIGN IS MOUNTED ON THE WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4" OF THE DOOR JAMB ON THE LATCH SIDE.
    - ILLUMINATION: EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013.6.1 THROUGH 1013.6.3.
  - EGRESS ILLUMINATION IS TO BE PROVIDED PER IBC 1008:
    - THE ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOTCANDLE (11 LUX) AT THE WALKING SURFACE.
    - A GENERATOR SHALL PROVIDE POWER FOR ILLUMINATION AT EXIT PASSAGEWAYS INCLUDING CORRIDORS, STAIRWAYS, AND INTERVENING ROOMS TO THE EXTERIOR OF THE BUILDING.
    - THE GENERATOR SHALL PROVIDE POWER FOR A MINIMUM OF 90 MINUTES AND SHALL BE INSTALLED AS PER IBC 2702.
  - AUDIBLE AND VISIBLE ALARMS
    - AUDIBLE ALARMS MUST BE PROVIDED TO SERVE ALL OCCUPIABLE AREAS WHERE A FIRE ALARM SYSTEM IS REQUIRED BY THE CODE.
    - VISIBLE ALARMS MUST BE PROVIDED IN AREAS WHERE THE AMBIENT NOISE LEVEL IS SUCH THAT AUDIBLE ALARMS MAY NOT BE HEARD (SECTION 907.5.2.1.2). THE MAXIMUM SOUND PRESSURE FOR AUDIBLE ALARM NOTIFICATIONS IS 110 DBA.
    - THE GENERAL ALARM NOTIFICATION MUST BE AUDIBLE WITHIN THE RESIDENTIAL UNITS. VISIBLE ALARM NOTIFICATION APPLIANCES ARE NOT REQUIRED WITHIN EACH UNIT, BUT VISIBLE NOTIFICATION CAN BE EASILY MADE AVAILABLE WHEN REQUESTED FOR PERSONS WITH HEARING IMPAIRMENTS, VIA THE SMOKE ALARMS WITHIN THEIR UNITS.
    - SINGLE- OR MULTIPLE-STATION SMOKE ALARMS ARE REQUIRED WITHIN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE OF ALL SLEEPING ROOMS, AND ON EACH FLOOR LEVEL IN A SUITE OR DWELLING UNIT (SECTION 907.2.11.2). WHEN MULTIPLE SMOKE ALARMS ARE INSTALLED IN A UNIT, THEY MUST BE INTERCONNECTED (SECTION 907.2.11.5).
    - IN GROUP R-2 FACILITIES, WHEN A BUILDING EVACUATION ALARM SYSTEM IS INSTALLED, A WIRE FROM THE GENERAL SYSTEM MUST BE PROVIDED TO ONE OF THE SMOKE DETECTORS IN THE UNIT (SECTION 907.5.2.3.3 AND ICC/ANSI A117.1, STANDARD ON ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SECTION 1006.4).



② LifeSafety-Level 2  
1/8" = 1'-0"

③ LifeSafety-Levels 3-4  
1/8" = 1'-0"

① Life Safety  
12" = 1'-0"



SEE SHEETS A801 & A802 FOR STANDPIPE LOCATIONS AND NOTES

FIRE ANNUNCIATOR PANEL

57 X 2 = 11.4\"/>

EMERGENCY LIGHTING

KNOX BOX - SEE FIRE CODE NOTES SHEET A002

6

5

4c

4b

4a

4

3b

3a

3

2b

SEE SHEETS A801 & A802 FOR STANDPIPE LOCATIONS AND NOTES

120 X 2 = 24\"/>

2a

MAIN FIRE ALARM PANEL

RISER

2

EMERGENCY LIGHTING

Sprinkler/Water Pump 102

KNOX BOX - SEE FIRE CODE NOTES SHEET A002

1b

0

1

0.1

EMERGENCY LIGHTING

1 Life Safety-Level 1  
1/8\"/>

D

8

C1

C

B

A



**Dale Sweeney**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO.: SHRLM-001  
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RNSD:

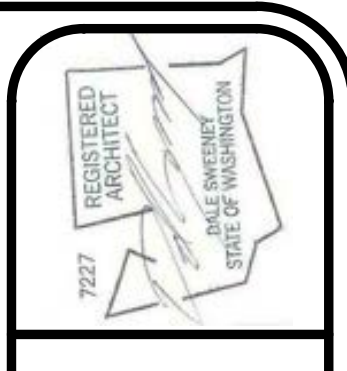
NO.	DATE	Revision Description
1	9/18/19	City Comments

**TP HOME 22 UNIT  
APTS. 2152**  
TP Home LLC  
2152 N 185TH ST.

**LIFE SAFETY PLAN LEVEL 1**

PRINT DATE:  
2/15/2021 12:46:37 PM

**SHEET NO.  
A021**



**Dale Sweeney**  
 ARCHITECT  
 5715 143rd Place SE  
 Bellevue, WA 98006

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 DATE: 6/26/2017  
 DWN. BY: Author  
 CHKD BY: Checker  
 RVS'D:

NO.	DATE	Revision Description

**TP HOME 22 UNIT  
 APTS. 2152  
 TP Home LLC  
 2152 N 185TH ST.**

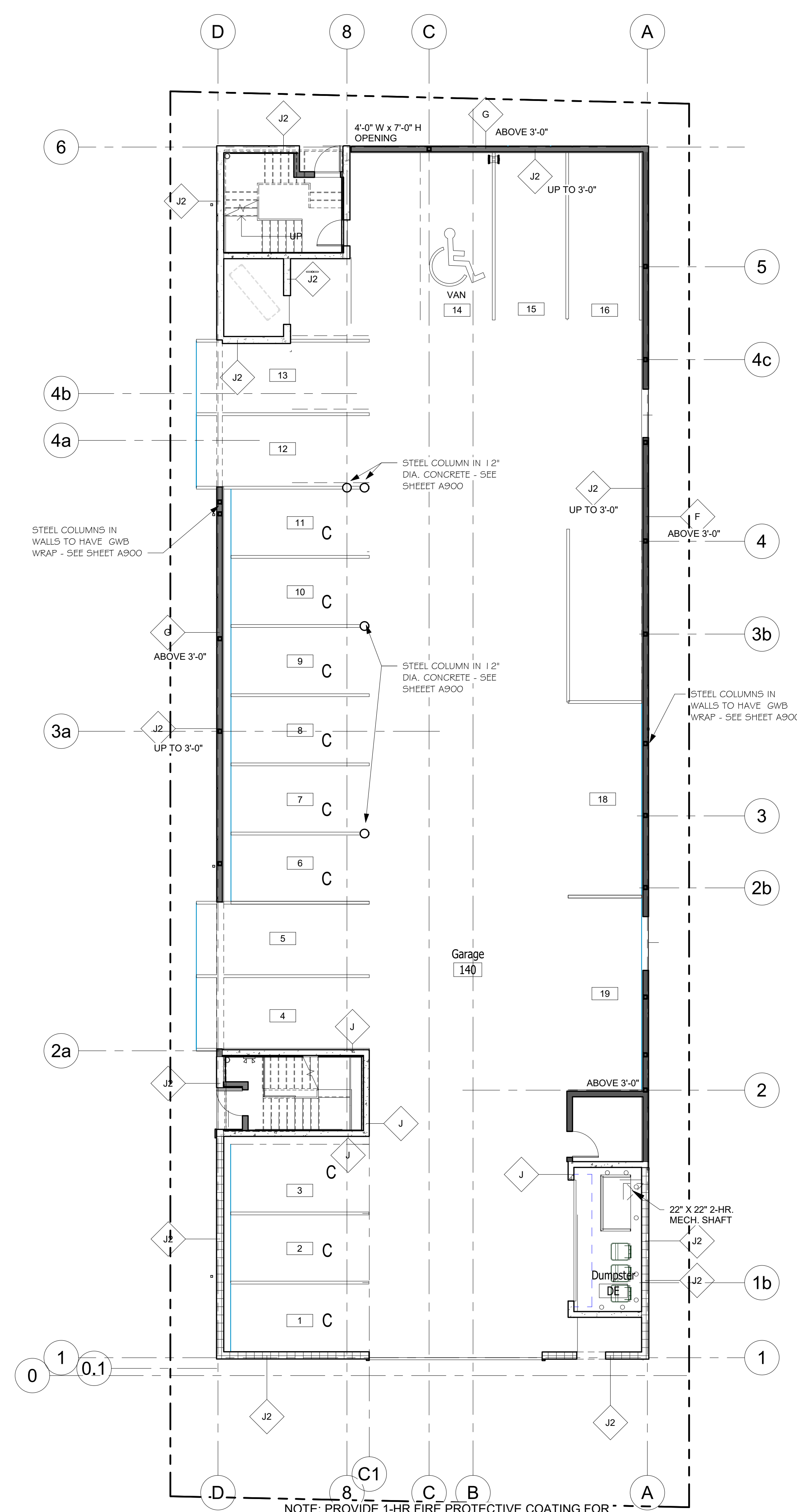
**LEVEL 1 WALL TYPES PLAN**

PRINT DATE:  
 2/15/2021 12:46:38 PM

**SHEET NO.  
 A030**

**WALL TYPE LEGEND**

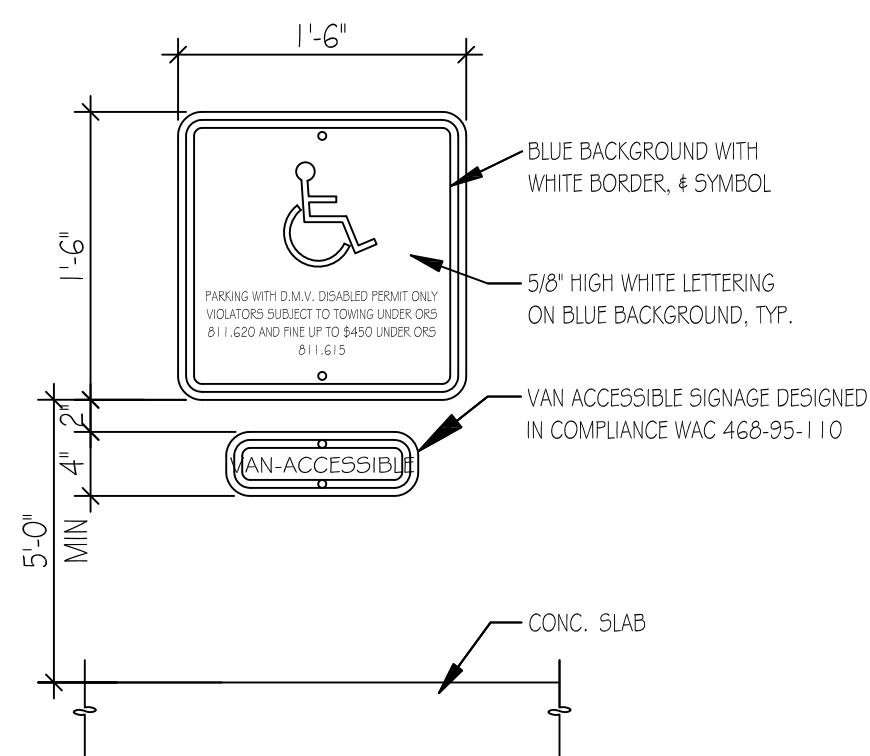
- A1 - WOOD FURRING - NON-RATED
- A2 - WOOD FURRING w/2" RIGID INSULATION - NON-RATED
- B1 - 2" MTL. FURRING - NON-RATED
- B2 - 2" MTL. FURRING w/2" RIGID INSULATION - NON-RATED
- C1 - 2 X 4 WOOD FRAMING - 1-HR
- C2 - 2 X 6 WOOD FRAMING - 1-HR
- D - 2 X 6 WOOD FRAMING - 1-HR
- E1 - 2 X 6 WOOD FRAMING w/INSUL. - 2-HR
- E2 - 2 X 6 WOOD FRAMING - NO INSUL. - 2-HR
- E3 - 2 X 4 WOOD FRAMING - NO INSUL. - 2-HR
- E4 - 2 X 8 WOOD FRAMING w/INSUL. - 2-HR
- F - EXTERIOR 2 X 6 w/INSUL. - 1-HR
- G - EXTERIOR 2 X 6 - NO INSUL. - 1-HR
- H - EXTERIOR WOOD FRAMING w/INSUL. - 2-HR.
- J - CONCRETE - 1-HR+
- J2 - CONCRETE w/EXTERIOR PANELING OR STONE VENEER - 1-HR+
- K - 2 X 4 STAGGERED STUDS ON 2 X 6 PLATES - 1-HR



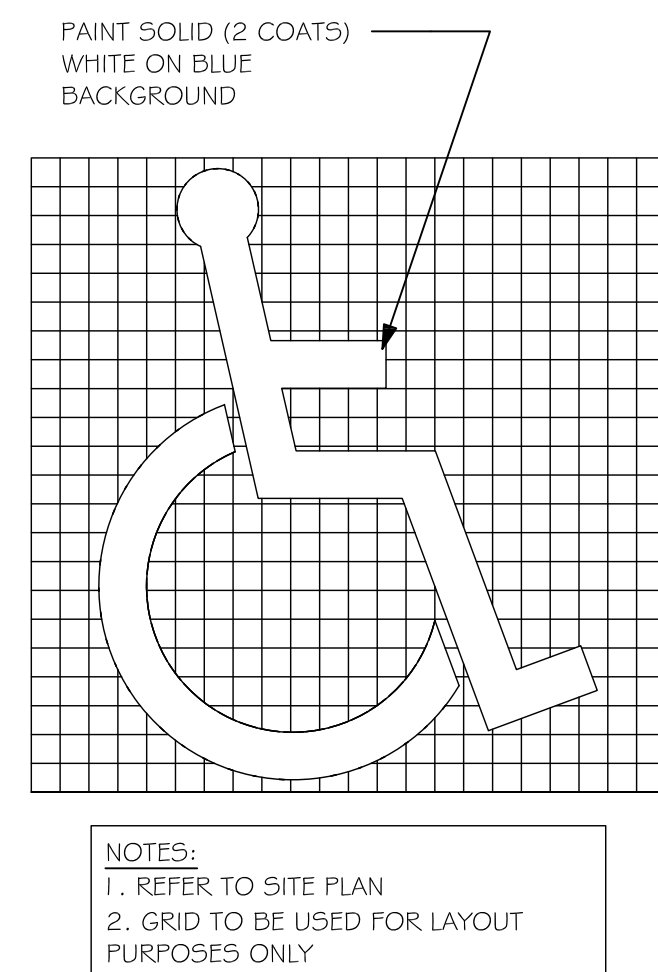
NOTE: PROVIDE 1-HR FIRE PROTECTIVE COATING FOR ANY STEEL BEAM, STEEL COLUMN, OR PORTION OF STEEL COLUMN NOT PROTECTED WITH CONCRETE OR GWB WRAP AS PER COL. A & COL. B SHEET A900

2 LEVEL 1 WALL TYPES PLAN  
 1/8" = 1'-0"

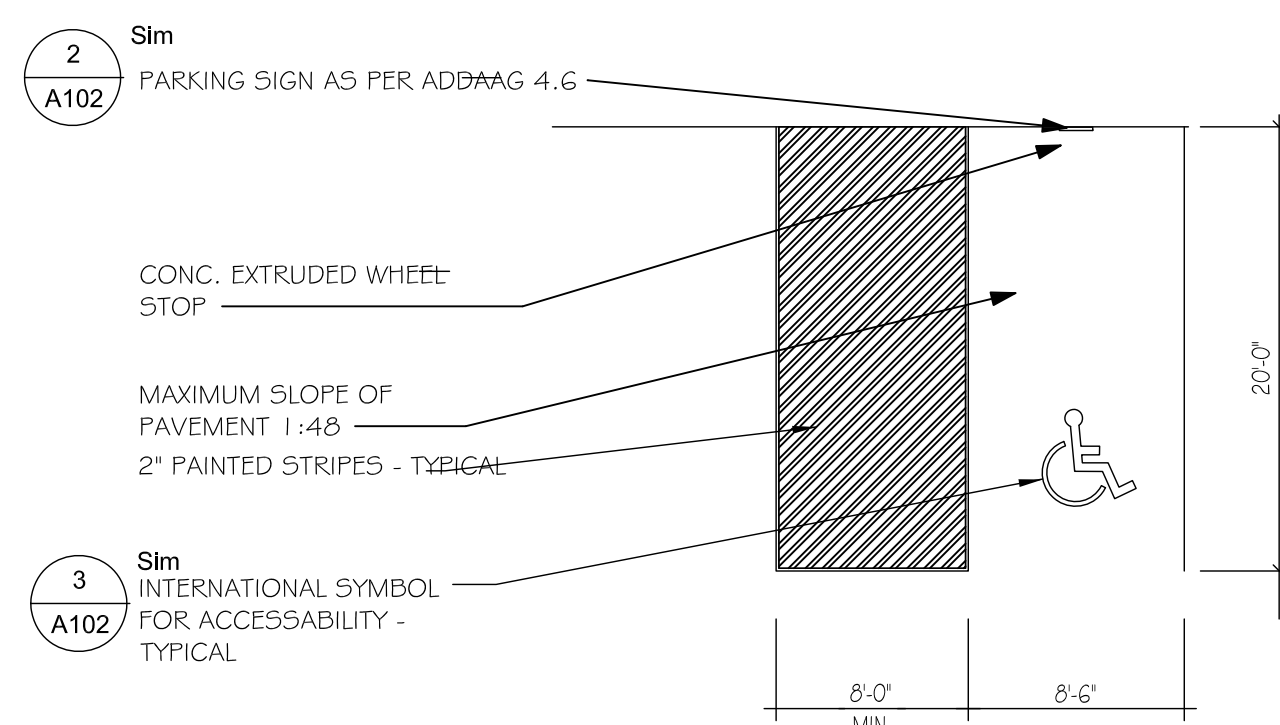




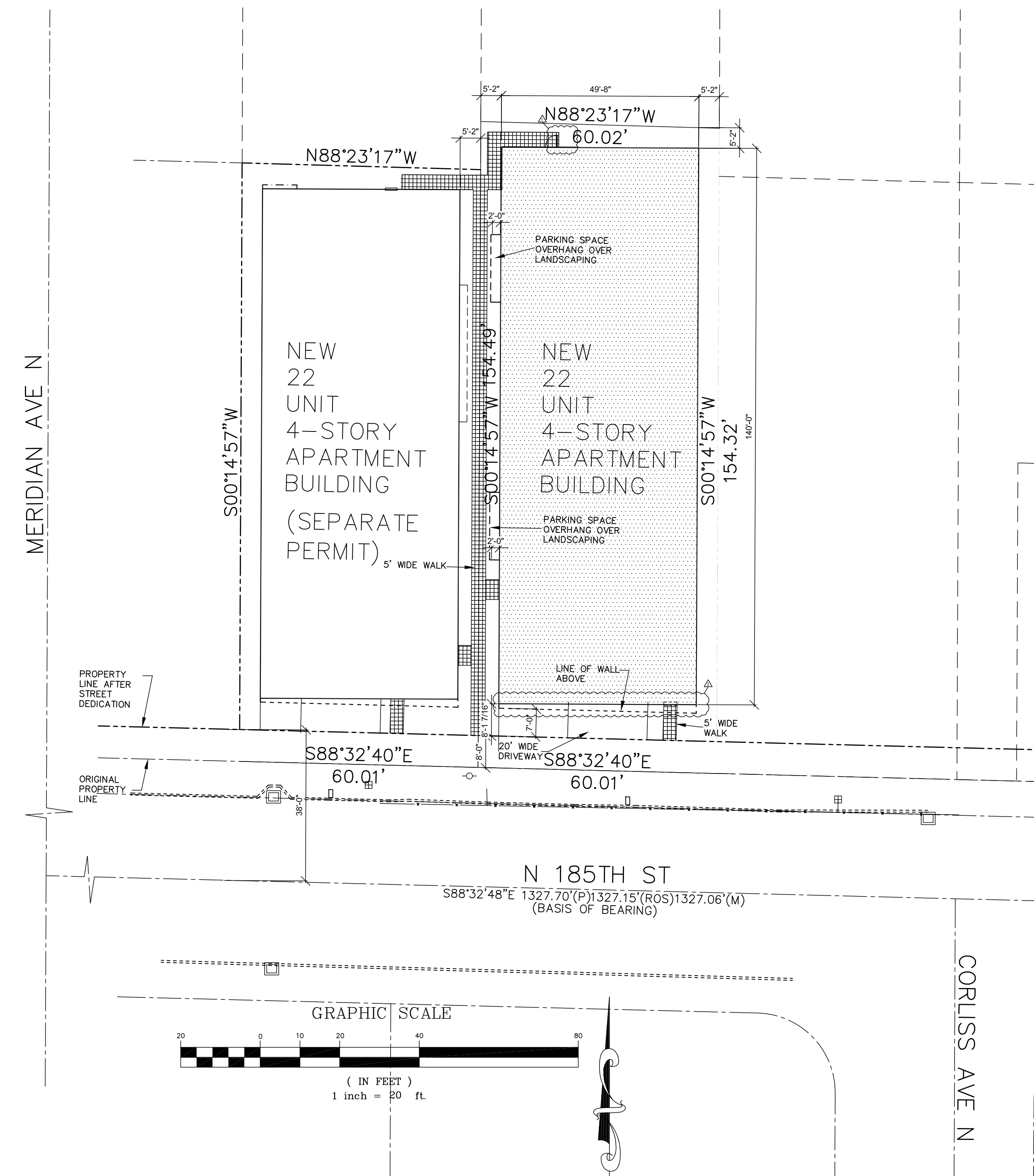
② HANDICAP / VAN ACCESSIBLE SIGN - WALL MOUNTED  
DETAIL 1  
1" = 1'-0"



③ HANDICAP SYMBOL 1  
3/4" = 1'-0"

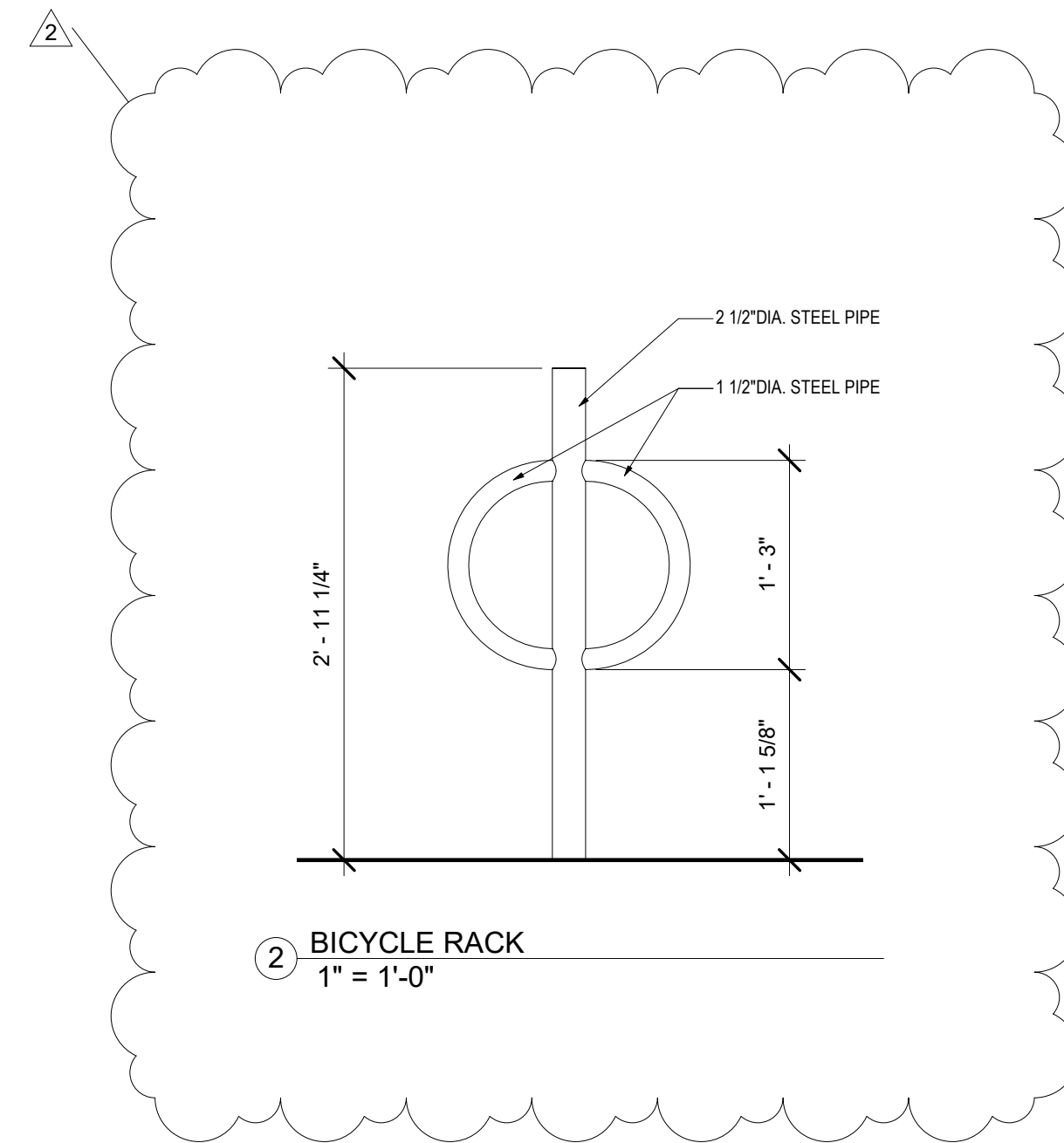


④ HANDICAP PARKING  
1/8" = 1'-0"



① SITE PLAN  
1" = 20'-0"

SITE AREA - 9,263 SQ. FT.  
BUILDING FOOTPRINT - 7,035 SQ. FT  
LOT COVERAGE = 76.0%

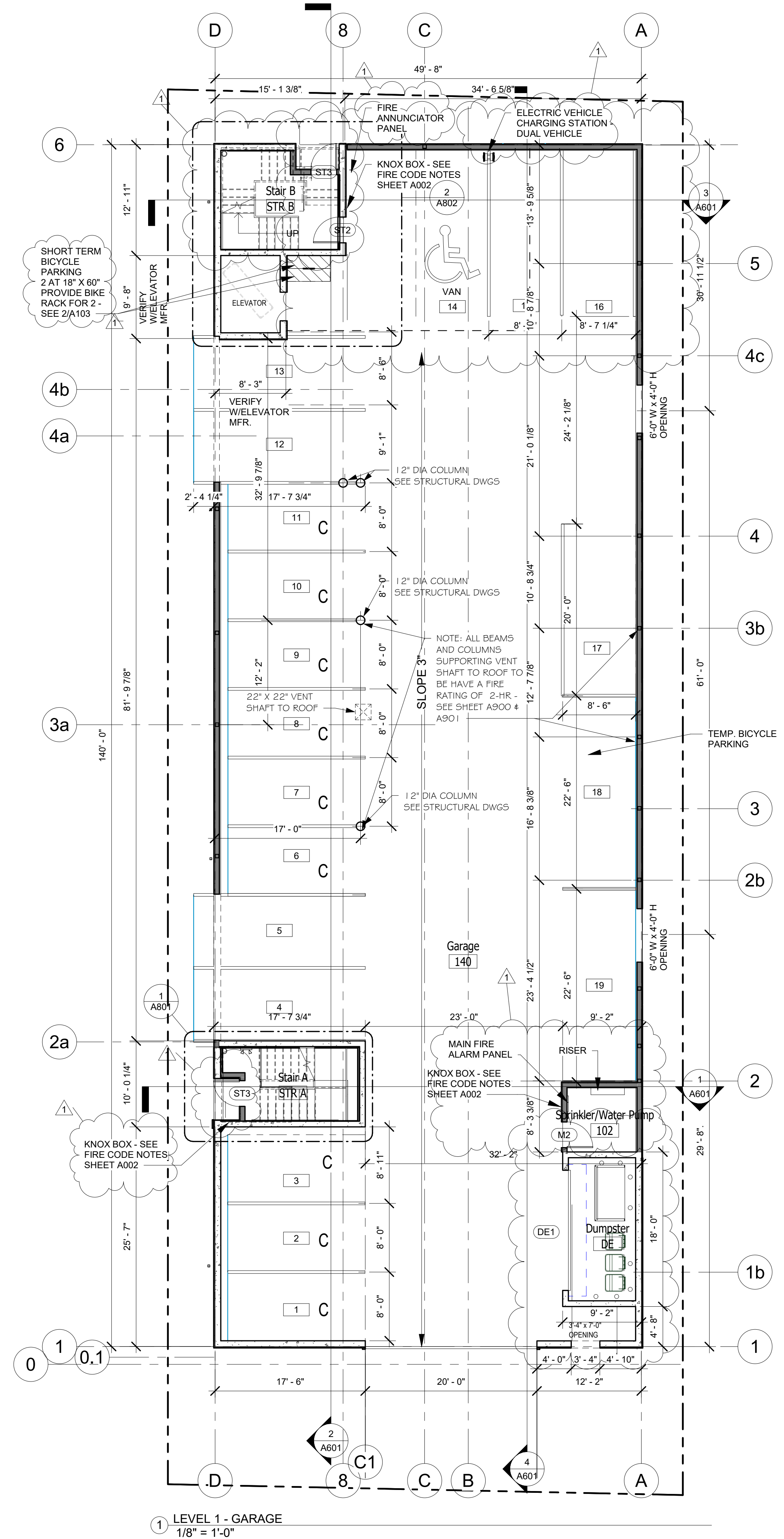


GENERAL GUESTROOM FLOOR PLAN NOTES:

- DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.) FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
- WALL CONSTRUCTION:  
TYPE VA: EXTERIOR WALLS TO BE 2X6 WOOD STUDS TYP. (U.N.O.), INTERIOR WALLS TO BE 2X WOOD STUDS AS SCHEDULED.
- FOR FLOOR/CEILING AND ROOF/CEILING TYPES AND ASSEMBLIES, SEE SHEETS A900 & A901
- FLOOR AND ROOF ASSEMBLIES TO BE OF 1 HOUR FIRE RATED CONSTRUCTION TYP. (U.N.O.)
- FOR PLATE HEIGHTS REFER TO SECTIONS.
- FOR DOOR HEAD HEIGHTS SEE DOOR SCHEDULE.
- FOR WINDOW HEAD/SILL HEIGHTS SEE WINDOW SCHEDULE.
- AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATING USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED.
- ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1, SECTION 404.2.2.
- REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS PER ICC/ANSI A117.1 SEC. 1003.11.4 AND 1004.11.2
- SEE A007 - A010 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS.

FLOOR PLAN

- X SEE WALL TYPES - SHEET A030, A031, A900
  - X SEE DOOR SCHEDULE - SHEET A601 (FOR ADDITIONAL DOOR TAGS SEE THE ENLARGED PLANS)
  - 1 SEE WINDOW SCHEDULE - SHEET A601 (FOR ADDITIONAL WINDOW TAGS SEE THE ENLARGED PLANS)
  - EXIT SIGN PER I.B.C. 1011 SEE A008
  - FIRE ALARM PULL STATION (FAPS) @ 120'-0"
  - FE# FIRE EXTINGUISHER CABINET @ 75'-0" O.C.
- SEE SHEETS A007, A008, A009, A010 FOR BARRIER FREE NOTES AND DIAGRAMS. SEE ID SHEETS FOR BARRIER FREE FIXTURES AND CLEARANCES IN GUESTROOMS



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DWN. BY: Author  
CHKD BY: Checker  
RNSD:

REVISIONS

NO.	DATE	Revision Description
1	9/8/19	City Comments
2	4/28/20	City Comments

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**TP HOME 22 UNIT  
APTS. 2152**  
TP Home LLC  
2152 N 185TH ST.

**GARAGE LEVEL**

PRINT DATE:  
2/15/2021 12:46:47 PM

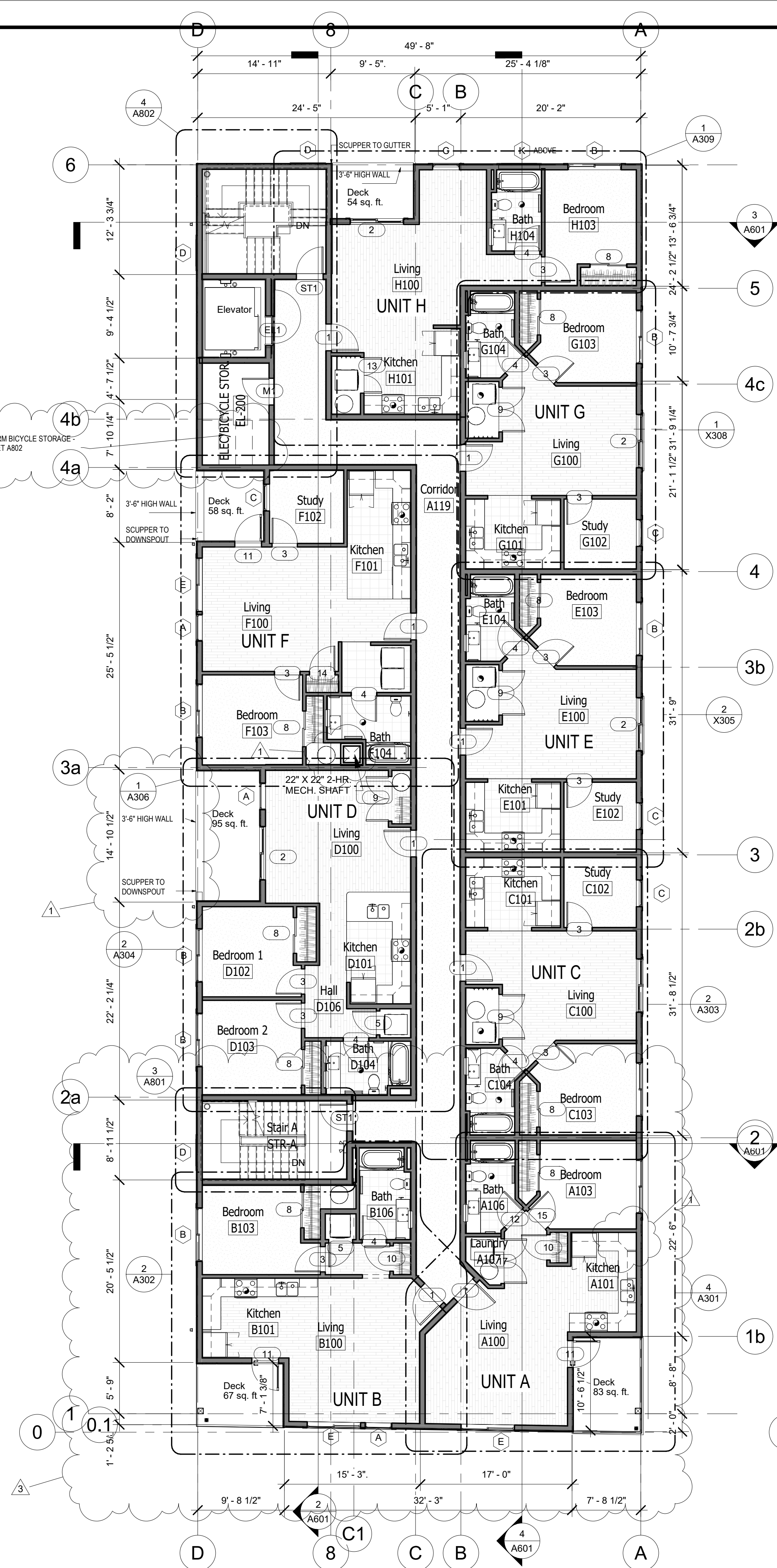
**SHEET NO.  
A103**

**GENERAL GUESTROOM FLOOR PLAN NOTES:**

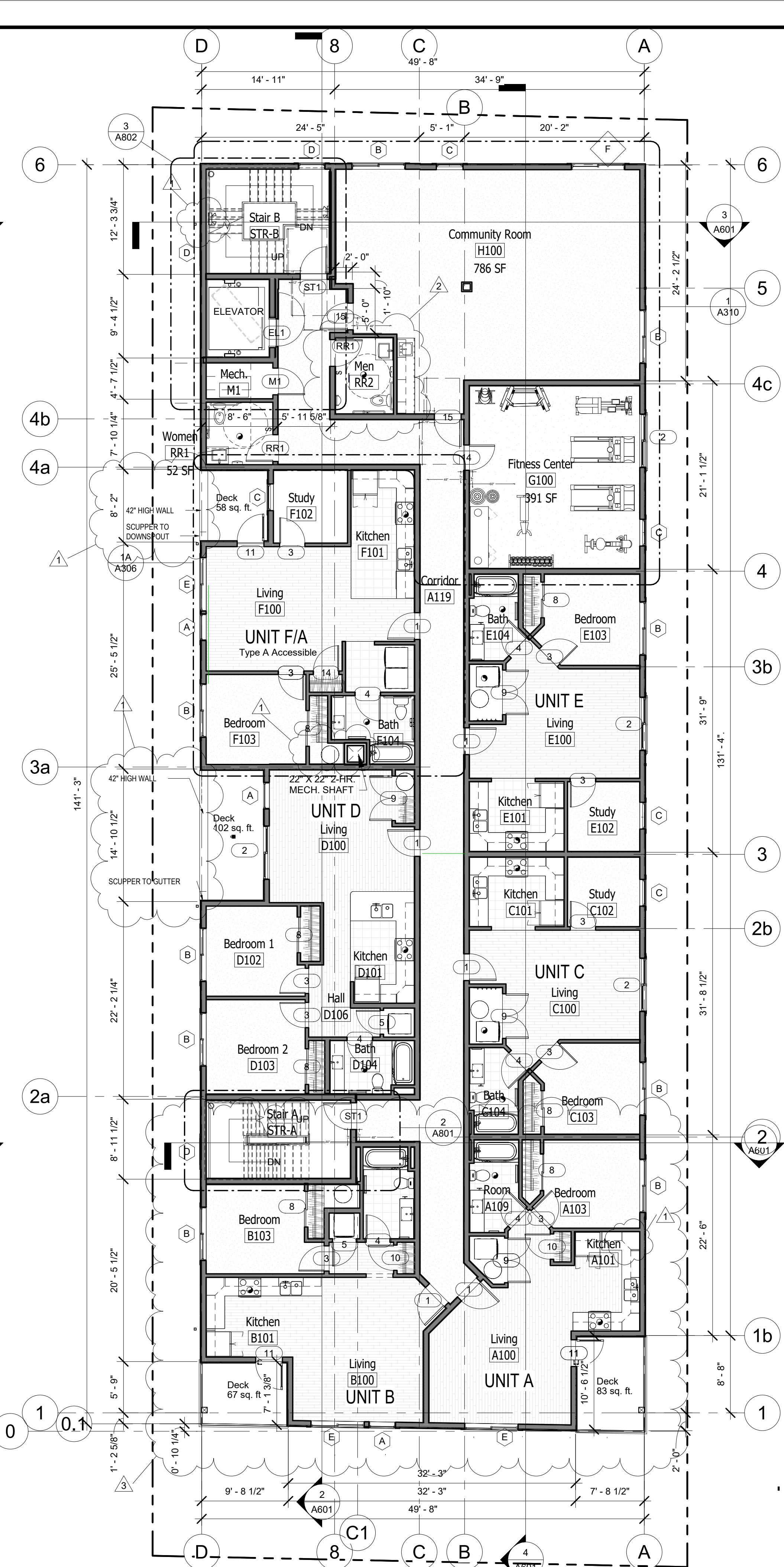
- DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.) FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
- WALL CONSTRUCTION:  
TYPE VA: EXTERIOR WALLS TO BE 2X6 WOOD STUDS TYP. (U.N.O.), INTERIOR WALLS TO BE 2X WOOD STUDS AS SCHEDULED.
- FOR FLOOR/CEILING AND ROOF/CEILING TYPES AND ASSEMBLIES. SEE SHEETS A900 & A901
- FLOOR AND ROOF ASSEMBLIES TO BE OF 1 HOUR FIRE RATED CONSTRUCTION TYP. (U.N.O.)
- FOR PLATE HEIGHTS REFER TO SECTIONS.
- FOR DOOR HEAD HEIGHTS SEE DOOR SCHEDULE.
- FOR WINDOW HEAD/SILL HEIGHTS SEE WINDOW SCHEDULE.
- AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATINGS USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED.
- ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1, SECTION 404.2.2.
- REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS PER ICC/ANSI A117.1 SEC. 1003.11.4 AND 1004.11.2
- SEE A007 - A010 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS.

**FLOOR PLAN**

- X SEE WALL TYPES - SHEET A030, A031, A900
  - X SEE DOOR SCHEDULE - SHEET A601 (FOR ADDITIONAL DOOR TAGS SEE THE ENLARGED PLANS)
  - 1 SEE WINDOW SCHEDULE - SHEET A601 (FOR ADDITIONAL WINDOW TAGS SEE THE ENLARGED PLANS)
  - EXIT SIGN PER I.B.C. 1011 SEE A008
  - FIRE ALARM PULL STATION (FAPS) @ 120'-0"
  - FE# FIRE EXTINGUISHER CABINET @ 75'-0" O.C.
- SEE SHEETS A007, A008, A009, A010 FOR BARRIER FREE NOTES AND DIAGRAMS. SEE ID SHEETS FOR BARRIER FREE FIXTURES AND CLEARANCES IN GUESTROOMS



2 Level 3.4  
1/8" = 1'-0"



1 Level 2  
1/8" = 1'-0"

**Dale Sweeney**  
ARCHITECT

5715 143rd Place SE  
Bellevue, WA 98006

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RVS'D:

REVISIONS

NO.

DATE

DESCRIPTION

1 9/8/19 City Comments

2 4/28/20 City Comments

3 1/15/21 City Comments

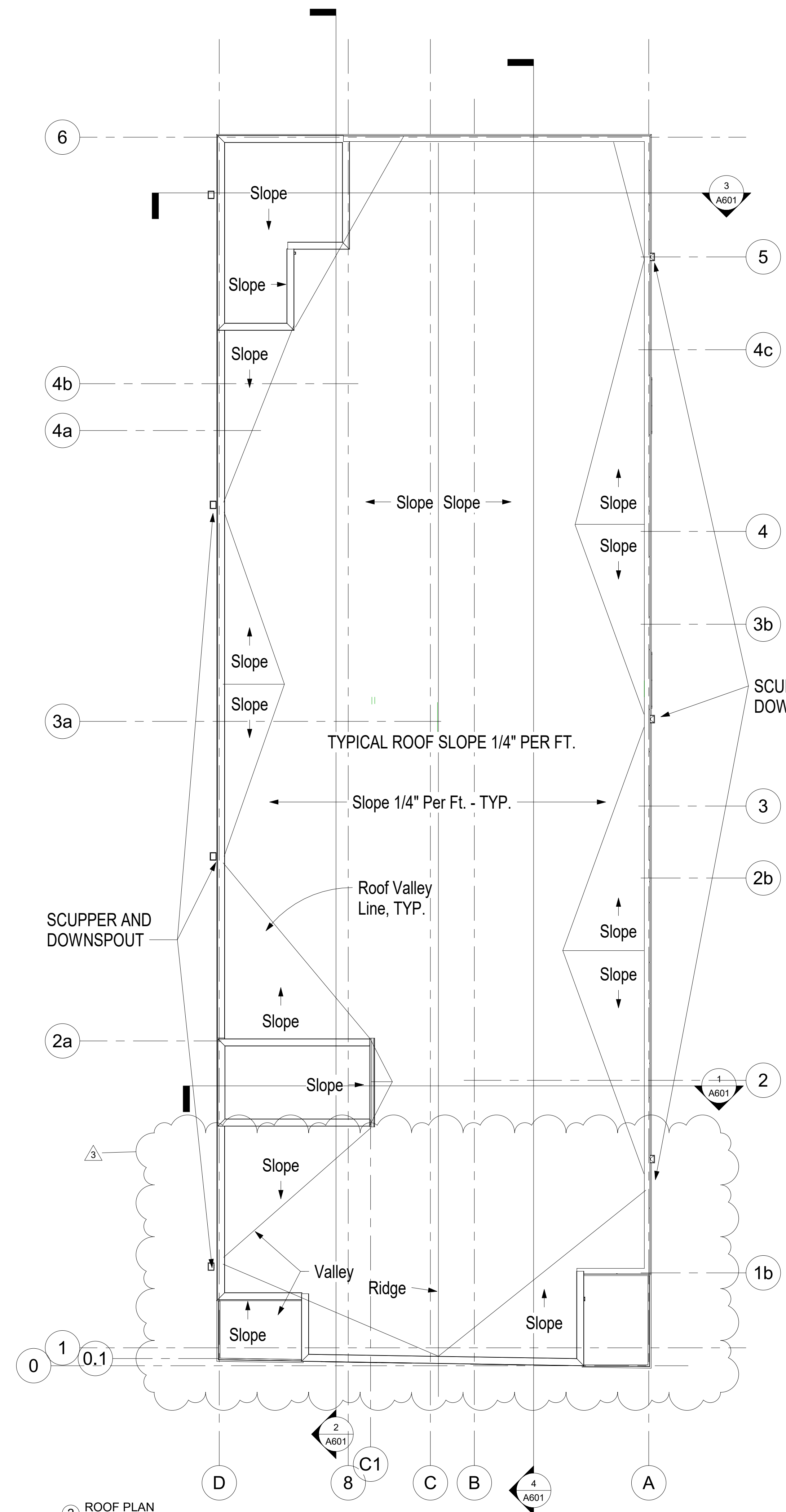
TP HOME 22 UNIT  
FLOOR PLANS LEVELS 2,3,  
& 4

TP Home LLC  
2152 N 185TH ST.

PRINT DATE:  
2/15/2021 12:46:53 PM

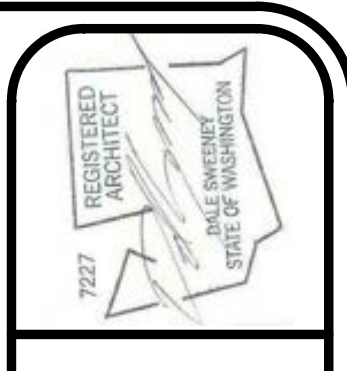
SHEET NO.

A104



**ROOF PLAN NOTES**

1. GENERAL CONTRACTOR TO INSTALL AND SEAL ROOF PENETRATIONS, CURBS AND SLEEPERS.
2. HVAC VENDOR TO PROVIDE ROOF CURBS AND VENDOR IS RESPONSIBLE FOR PROVISION/ COORDINATION OF ROOF PENETRATIONS REQUIRED FOR EQUIPMENT INSTALLATION.
3. FLASH PLUMBING VENT AND ELECTRICAL PIPES, SEE SHEET A901. SEE MECH. AND ELEC. DWGS. FOR LOCATIONS.
4. COORDINATE SIZE AND LOCATION OF SATELLITE DISH PROVIDED BY AV CONTRACTOR. COORDINATE LOADS AND REACTIONS WITH JOIST MANUFACTURER. GC TO PROVIDE SUPPORT LEGS/BLOCKING.
5. NEW ROOF MEMBRANE TO BE INSTALLED BY MANUFACTURER APPROVED LICENSED ROOFING CONTRACTOR. REFER TO DETAILS AS INDICATED ON THIS AND OTHER SHEETS.
6. GC TO PROVIDE POWER AND BLOCKING FOR ALL BUILDING SIGNAGE. COORDINATE WITH SIGN VENDOR.
7. SEE SHEETS A901 & A904 FOR ROOF DETAILS.



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3	1/15/21	City Comments

**TP HOME 22 UNIT  
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 TP Home LLC  
 2152 N 185TH ST.**

**ROOF PLAN**

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**SHEET NO.  
 A109**

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



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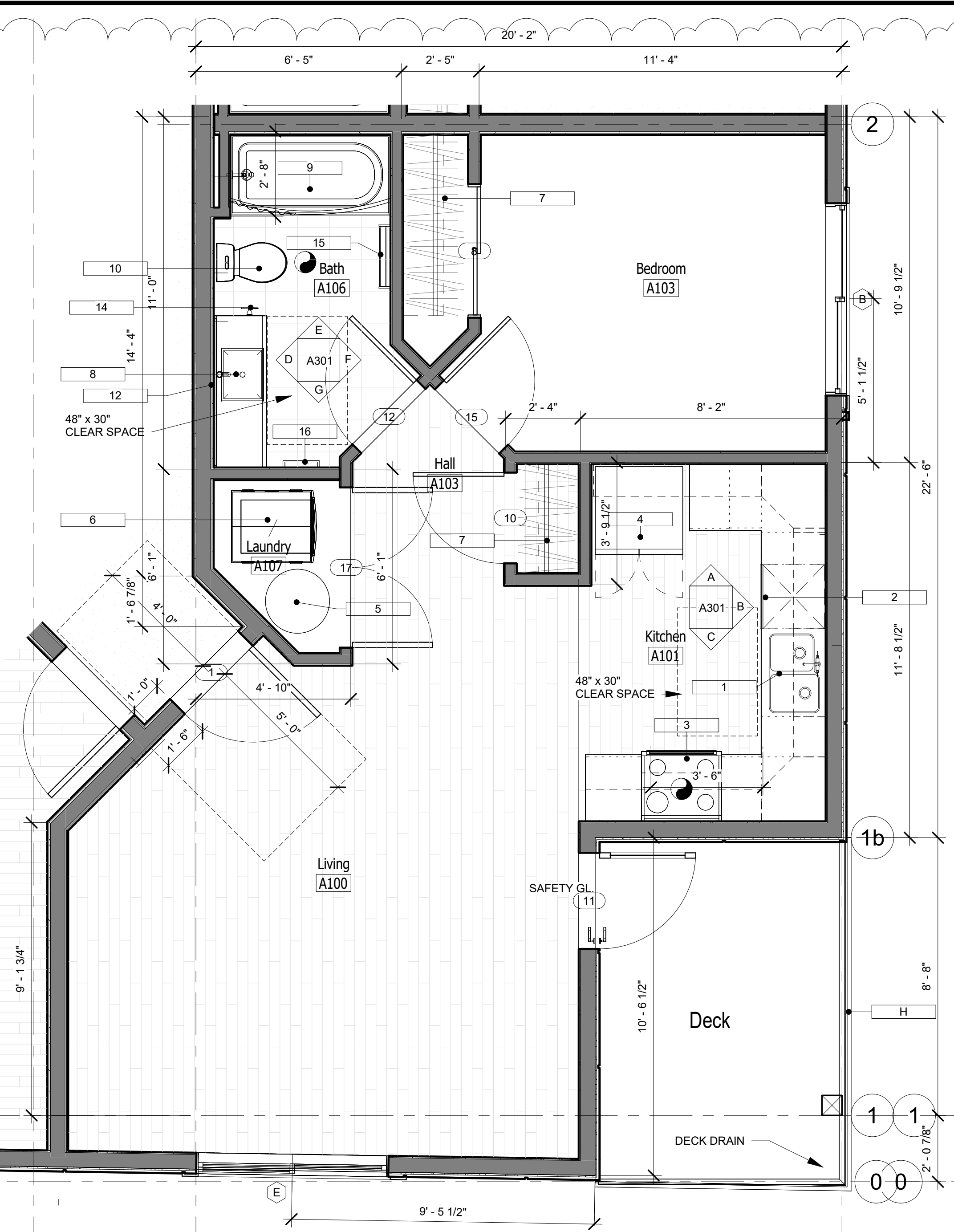
**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**UNIT PLAN A**

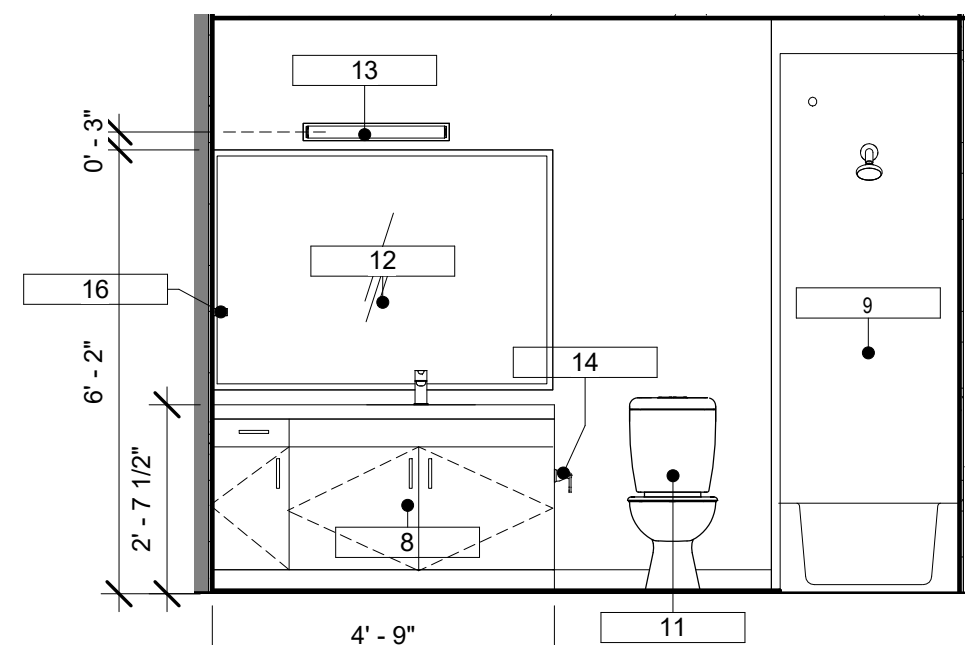
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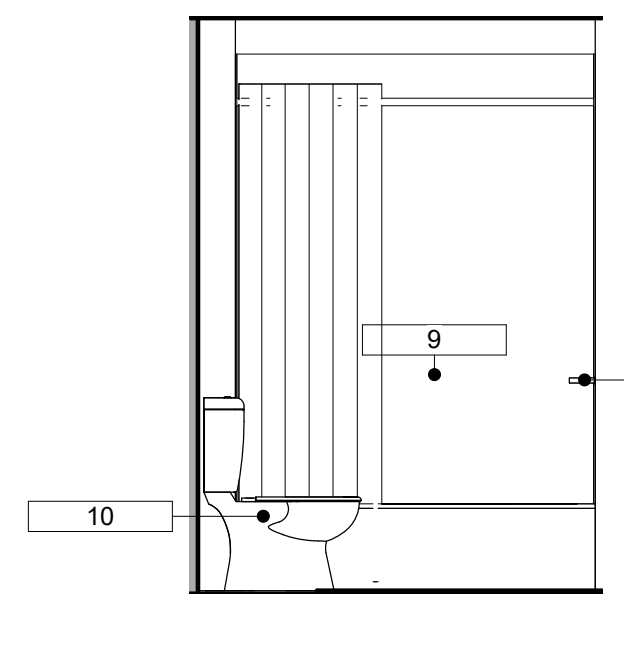
**A301**



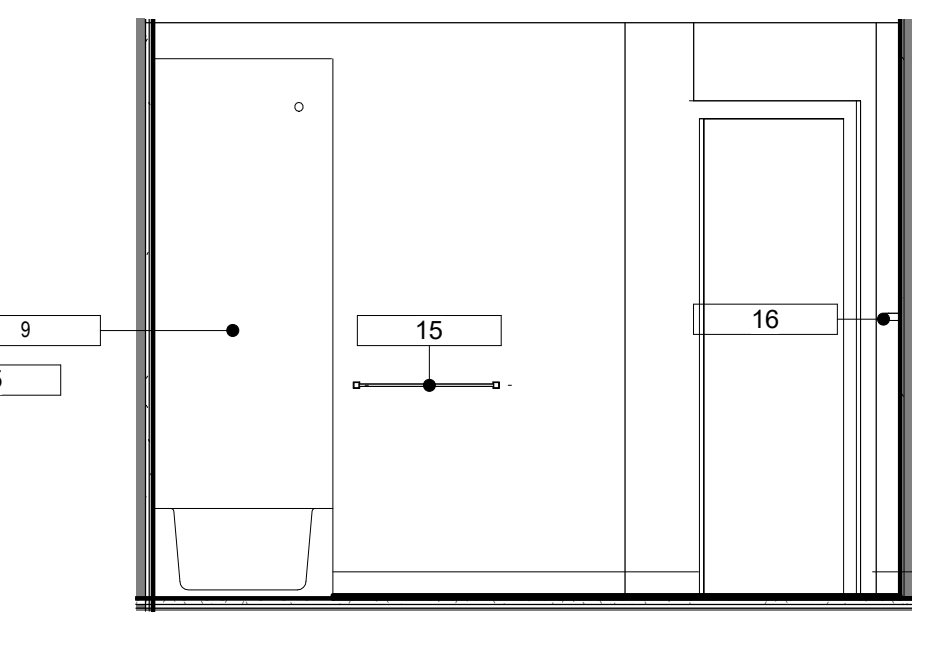
4 Unit A - Enlarged Plan  
3/8" = 1'-0"



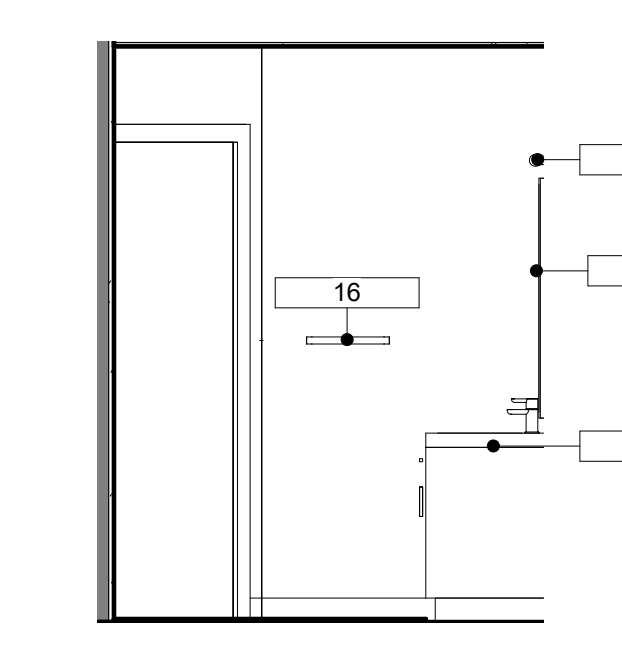
D Unit A - Bath West  
3/8" = 1'-0"



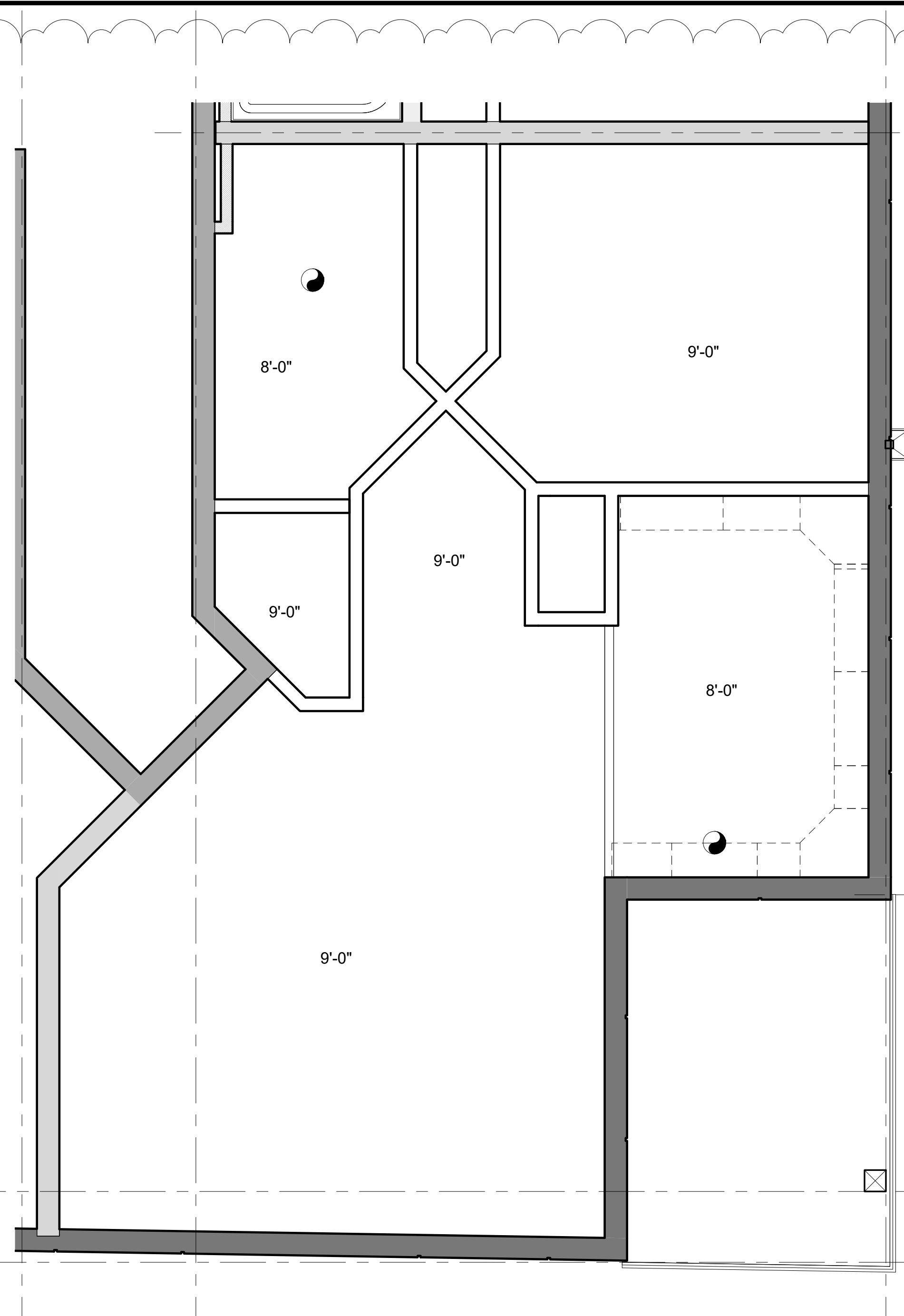
E Unit A - Bath North  
3/8" = 1'-0"



F Unit A - Bath East  
3/8" = 1'-0"



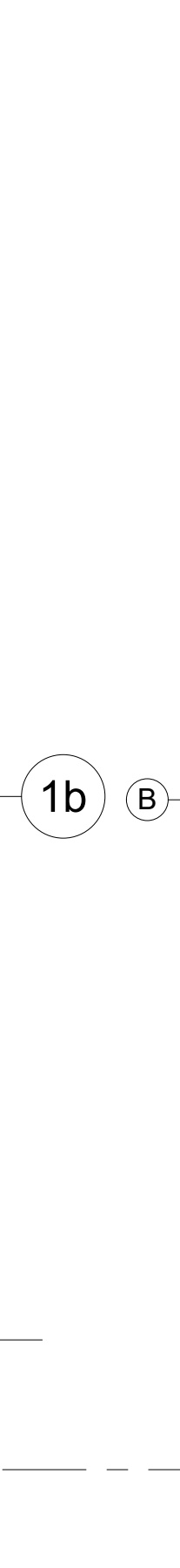
G Unit A - Bath South  
3/8" = 1'-0"



1 Unit A - Ceiling Plan  
3/8" = 1'-0"



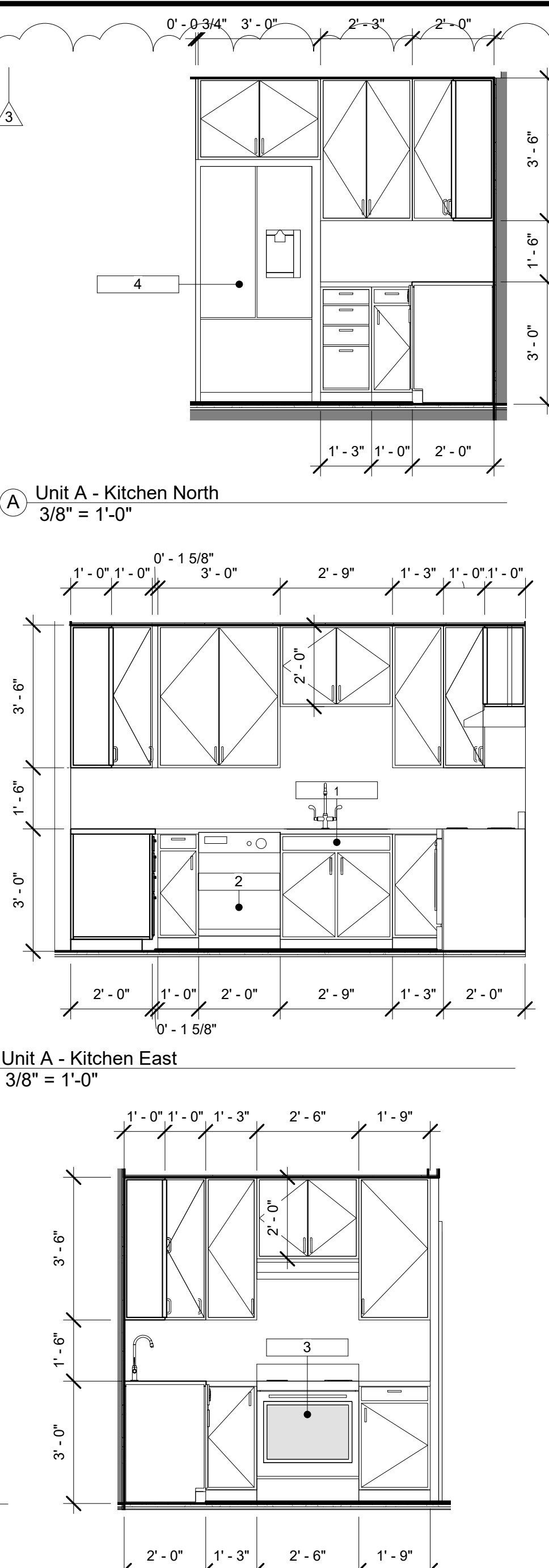
A Unit A - Kitchen North  
3/8" = 1'-0"



B Unit A - Kitchen East  
3/8" = 1'-0"



C Unit A - Kitchen South  
3/8" = 1'-0"



**PLAN NOTES**

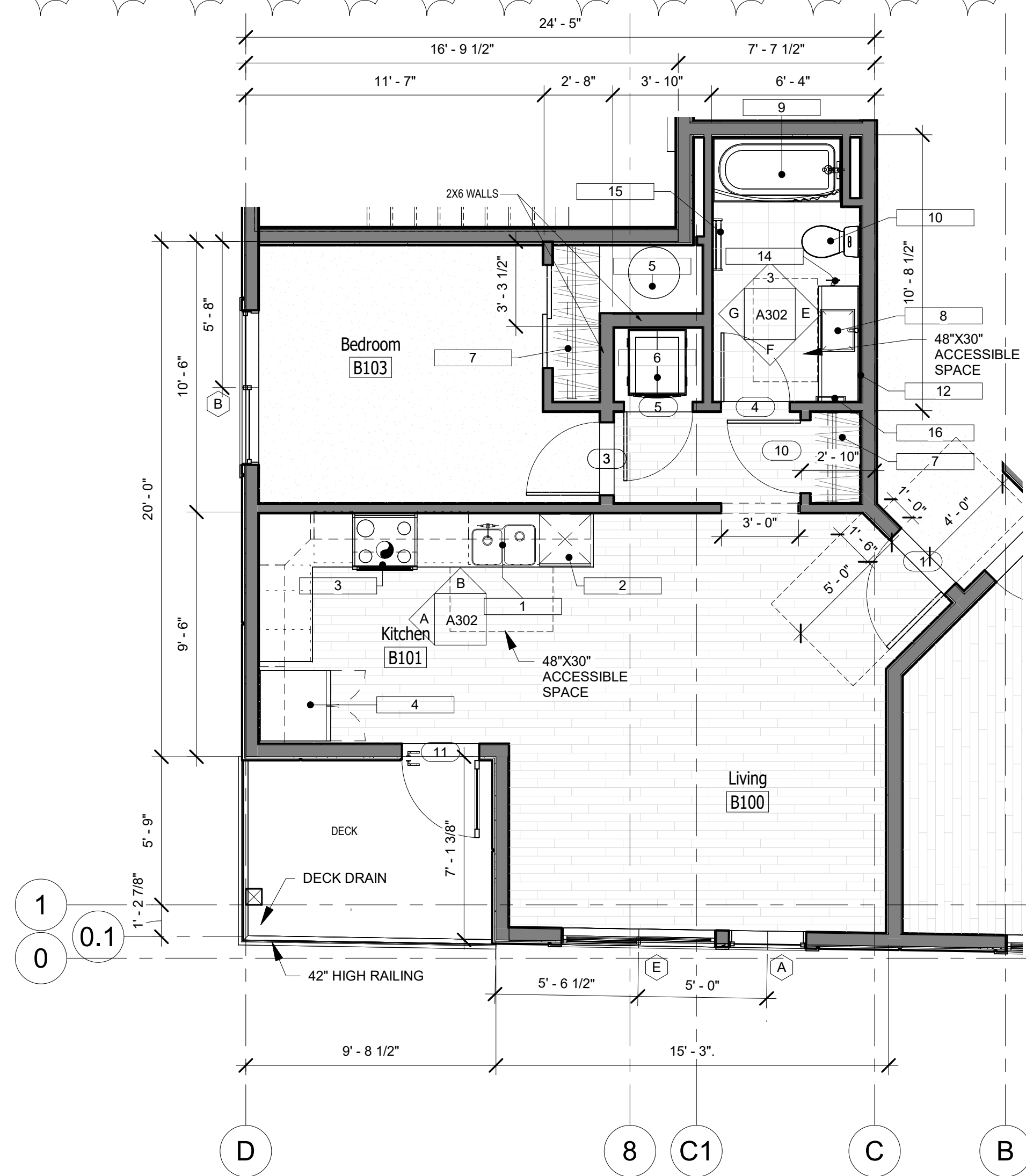
- SEE INDIVIDUAL UNIT FLOOR PLANS IN SECTION A3 FOR DETAILED INFORMATION. (DIMENSIONS, CONSTRUCTION, DOOR/WINDOW, ETC.)
- SEE ENLARGED STAIR/ELEVATOR SHEETS A801 & A802 FOR DETAILED INFORMATION.
- PROPERTY LINES SHOWN FOR GENERAL INFORMATION ONLY. SEE SITE PLAN IN SECTION A1 FOR PLACEMENT OF BUILDING.
- SEE SITE PLAN IN SECTION A100 FOR DETAILED INFORMATION OR SITE FEATURES.
- THE BUILDING IS TO BE FIRE SPRINKLERED THROUGHOUT.
- FIRE EXTINGUISHERS ARE TO BE LOCATED NO MORE THAN 75 FT OF TRAVEL TO THE NEAREST EXTINGUISHER. EXTINGUISHERS TO COMPLY WITH IFC 2009 906.1, BMC 20.08.22 AND NFPA 10.
- FIRE EXTINGUISHER BOXES TO BE SURFACE MOUNT AT GARAGE COLUMNS/CONCRETE WALLS, ELSE SEMI-RECESSED WITH 4" MAX. PROTRUSION. BASE OF CABINET TO BE 27" MIN. A.F.F.
- AUDIBLE AND VISIBLE ALARMS  
VISIBLE AND AUDIBLE NOTIFICATION DEVICES, SMOKE ALARMS AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS, AUDIBLE ALARMS (SECTION 907) MUST BE PROVIDED TO SERVE ALL OCCUPABLE AREAS WHERE A FIRE ALARM SYSTEM IS REQUIRED BY THE CODE. VISIBLE ALARMS MUST BE PROVIDED IN AREAS WHERE THE AMBIENT NOISE LEVEL IS SUCH THAT AUDIBLE ALARMS MAY NOT BE HEARD (SECTION 907.5.2.1.2).
- VISIBLE ALARMS ARE REQUIRED IN ALL PUBLIC-USE AND ALL COMMON-USE AREAS TO ALERT PEOPLE WITH HEARING IMPAIRMENTS (SECTION 907.5.2.3.1)
- GROUP R-2 RESIDENTIAL BUILDINGS (SECTION 907.5.2.3.3). WHEN A BUILDING IS REQUIRED TO HAVE A GENERAL EVACUATION ALARM, PUBLIC AREAS ROOMS ARE REQUIRED TO HAVE VISIBLE AND AUDIBLE ALARMS. THE GENERAL ALARM NOTIFICATION MUST BE AUDIBLE WITHIN THE RESIDENTIAL UNITS. VISIBLE ALARM NOTIFICATION APPLIANCES ARE NOT REQUIRED WITHIN EACH UNIT, BUT VISIBLE NOTIFICATION CAN BE EASILY MADE AVAILABLE WHEN REQUESTED FOR PERSONS WITH HEARING IMPAIRMENTS, VIA THE SMOKE ALARMS WITHIN THEIR UNITS.
- SINGLE- OR MULTIPLE-STATION SMOKE ALARMS ARE REQUIRED WITHIN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE OF ALL SLEEPING ROOMS, AND ON EACH FLOOR LEVEL IN A SUITE OR DWELLING UNIT (SECTION 907.2.11.2).
- WHEN MULTIPLE SMOKE ALARMS ARE INSTALLED IN A UNIT, THEY MUST BE INTERCONNECTED (SECTION 907.2.11.5). IN GROUP R-2 FACILITIES, WHEN A BUILDING EVACUATION ALARM SYSTEM IS INSTALLED, A WIRE FROM THE GENERAL ALARM SYSTEM MUST BE PROVIDED TO ONE OF THE SMOKE DETECTORS IN THE UNIT (SECTION 907.5.2.3.3 AND ICC/ANSI A117.1, STANDARD ON ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SECTION 1006.4).
- WHEN A PERSON WITH A HEARING IMPAIRMENT WANTS VISIBLE NOTIFICATION IN THEIR APARTMENT, IT IS EASY TO SWITCH OUT THE TYPICAL AUDIBLE SMOKE DETECTORS FOR SMOKE DETECTORS THAT HAVE VISIBLE AND AUDIBLE ALARMS (NOTE: ALARM DEVICES MUST BE LISTED FOR THE PURPOSE THEY ARE TO SERVE). THROUGH THE EXISTING WIRING, THE GENERAL BUILDING EVACUATION ALARM WILL BE CONNECTED TO THE SMOKE DETECTORS.
- DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.), FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
- AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATING USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED AT PARTY AND CORRIDOR WALLS.
- ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1-2009, SECTION 404.2.2.
- REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS. PER ICC/ANSI A117.1-2009 SEC. 1003.11.4 AND 1004.11.2
- SEE SECTION SHEETS A005, A006, AND A007 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS
- PROVIDE DENSIELD, DUROCK, OR EQUIVALENT WATER RESISTANT WALLBOARD AT TUB/SHOWER AND OTHER WET LOCATIONS.

**SYMBOLS & LEGEND:**

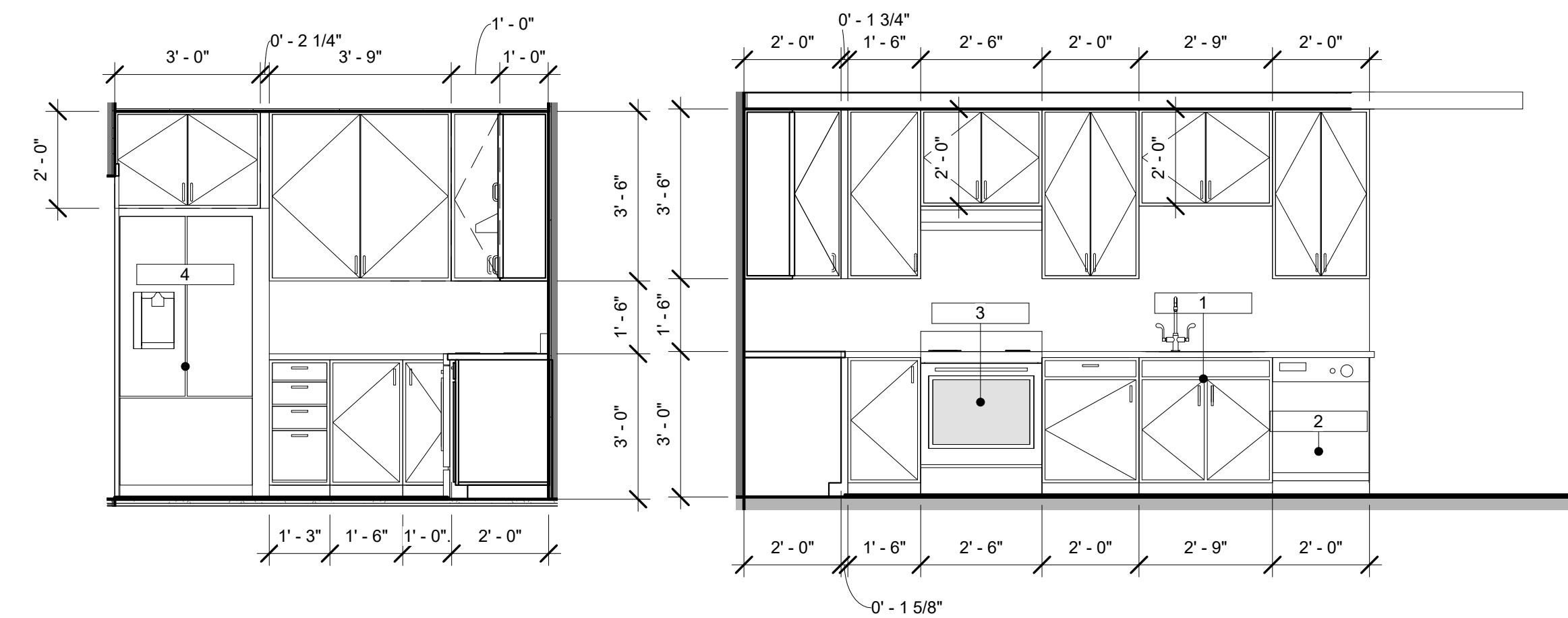
- EXHAUST FAN: SEE SECTION G FOR ENERGY COMPLIANCE.
- 110V SMOKE DETECTOR W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2. SEE UNIT PLANS.
- SD/CO DENOTES COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR. 110V W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTIONS 907.2.11.2 AND 907.2.9.3. SEE UNIT PLANS.
- ILLUMINATED EXIT SIGN AS NOTED AND PER IBC 1011.
- EMERGENCY LIGHT PER IBC 1006.
- INDICATES WALL TYPE: SEE WALL ASSEMBLY SCHEDULE
- FIRE EXTINGUISHERS PER IFC. SEE EGRESS PLANS IN SECTION G CLASS 3A TYP. U.N.O.
- INDICATES WINDOW TYPE: SEE WINDOW SCHEDULE IN SECTION A601
- INDICATES DOOR TYPE: SEE DOOR SCHEDULE IN SECTION A601
- INDICATES PARKING STALL COUNT.
- INDICATES 60" DIAMETER UNOBSTRUCTED FLOOR SPACE. SEE UNIT PLANS AND ENLARGED PLANS
- INDICATES 30" X 48" MANEUVERING SPACE. SEE UNIT PLANS AND ENLARGED PLANS.
- INDICATES CEILING OR SOFFIT 7'-6" AFF TYP. U.N.O. SOFFIT TO T.O. UPPER CABINETS @ KITCHENS TYP.
- PAINTED STRIPE AREA PER CITY REQUIREMENTS

**PLAN KEY NOTES:**

- KITCHEN SINK W/DISP.
- DISHWASHER
- RANGE WITH HOOD
- REFRIGERATOR
- WATER HEATER
- STACK WASHER/DRYER
- CLOSET ROD AND SHELF
- VANITY
- TUB/SHOWER w/STANDARD SHOWER HEAD AND VALVES
- TOILET
- TOILET WITH GRAB BARS - SEE SHEETS A005 & A006
- MIRROR
- VANITY LIGHT
- TOILET PAPER HOLDER
- 24" DOUBLE TOWEL BAR
- 15" SINGLE TOWEL BAR
- 5 FT. COAT HOOK BOARD w/ 9 MTL. HOOKS
- 3FT COAT HOOK BOARD w/ 5 MTL. HOOKS
- WASHER & DRYER SIDE-BY-SIDE - COMPLY WITH ANSI A117.1 ACCESSIBILITY - SEE SHEET A006
- ANSI A117.1 COMPLIANT SHOWER HEAD WITH SLIDING BAR
- ANSI COMPLIANT SIDE-BY-SIDE WASHER/DRYER

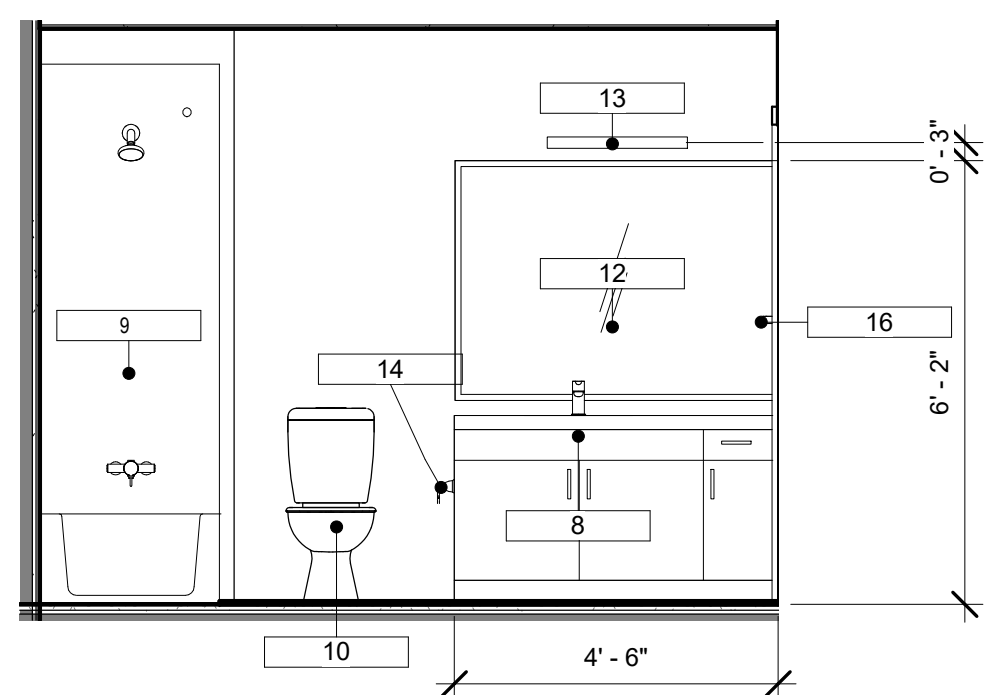


② Unit B - Enlarged Plan  
1/4" = 1'-0"

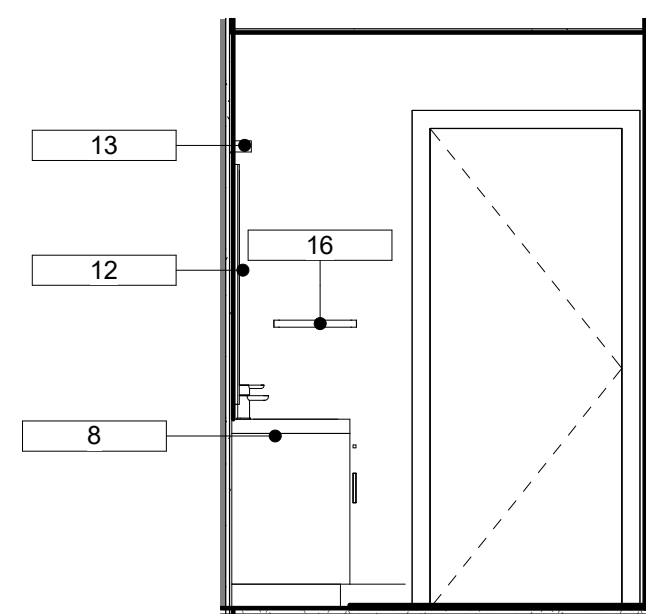


① Unit B - Ceiling Plan  
1/4" = 1'-0"

⑧ Unit B - Kitchen West  
3/8" = 1'-0"



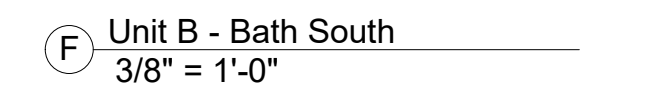
⑨ Unit B - Kitchen North  
3/8" = 1'-0"



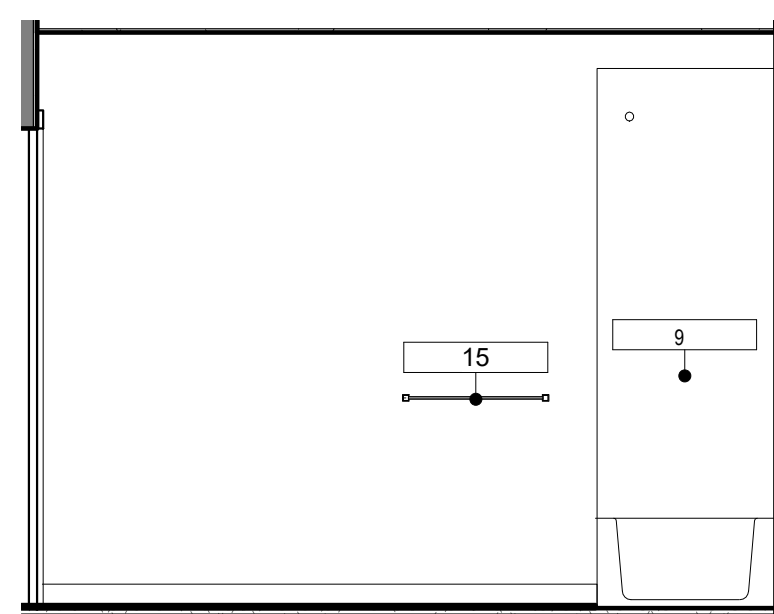
⑤ Unit B - Bath East  
3/8" = 1'-0"



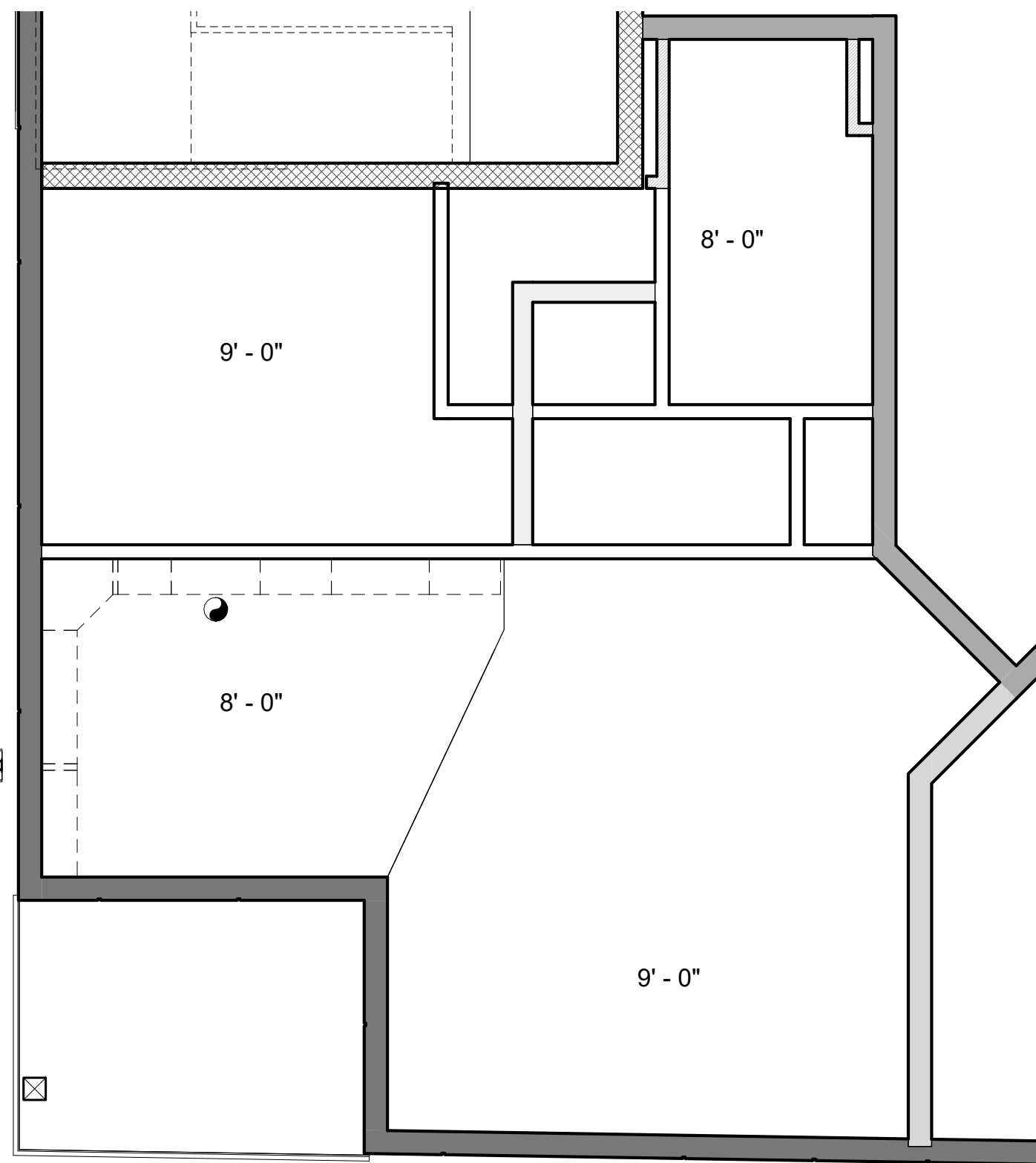
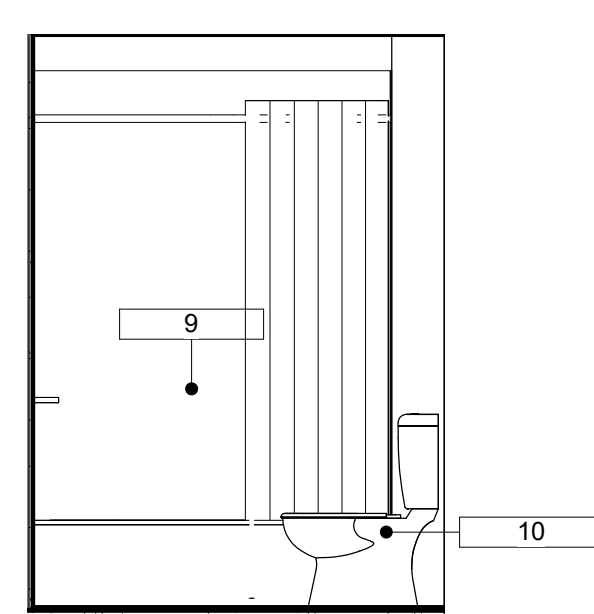
⑥ Unit B - Bath South  
3/8" = 1'-0"



⑦ Unit B - Bath West  
3/8" = 1'-0"



③ Unit B - Bath North  
3/8" = 1'-0"



**PLAN KEY NOTES:**

- 1) KITCHEN SINK W/DISP.
- 2) DISHWASHER
- 3) RANGE WITH HOOD
- 4) REFRIGERATOR
- 5) WATER HEATER
- 6) STACK WASHER/DRYER
- 7) CLOSET ROD AND SHELF
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- 9) TUB/SHOWER w/STANDARD SHOWER HEAD AND VALVES
- 10) TOILET
- 11) TOILET WITH GRAB BARS - SEE SHEETS A005 & A006
- 12) MIRROR
- 13) VANITY LIGHT
- 14) TOILET PAPER HOLDER
- 15) 24" DOUBLE TOWEL BAR
- 16) 15" SINGLE TOWEL BAR
- 17) 5 FT. COAT HOOK BOARD w/ 9 MTL. HOOKS
- 18) 3FT COAT HOOK BOARD w/ 5 MTL. HOOKS
- 19) WASHER & DRYER SIDE-BY-SIDE - COMPLY WITH ANSI A117.1 ACCESSIBILITY - SEE SHEET A006
- 20) ANSI A117.1 COMPLIANT SHOWER HEAD WITH SLIDING BAR
- 21) ANSI COMPLIANT SIDE-BY-SIDE WASHER/DRYER

**SYMBOLS & LEGEND:**

- |        |   |           |   |
|--------|---|-----------|---|
| [F]    | EXHAUST FAN: SEE SECTION G FOR ENERGY COMPLIANCE.   | [1]       | INDICATES WINDOW TYPE: SEE WINDOW SCHEDULE IN SECTION A601                                      |
| SD     | 110V SMOKE DETECTOR W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2. SEE UNIT PLANS.   | [001]     | INDICATES DOOR TYPE: SEE DOOR SCHEDULE IN SECTION A601  |
| SD/CO  | SD/CO DENOTES COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR, 110V W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2 AND 907.2.9.3. SEE UNIT PLANS. | [#]       | INDICATES PARKING STALL COUNT.  |
| [EXIT] | ILLUMINATED EXIT SIGN AS NOTED AND PER IBC 1011.  | [60]      | INDICATES 60" DIAMETER UNOBSTRUCTED FLOOR SPACE. SEE UNIT PLANS AND ENLARGED PLANS              |
| [E]    | EMERGENCY LIGHT PER IBC 1006.   | [30'x48'] | INDICATES 30' X 48" MANEUVERING SPACE. SEE UNIT PLANS AND ENLARGED PLANS.                       |
| [1]    | INDICATES WALL TYPE: SEE WALL ASSEMBLY SCHEDULE   | [Hatched] | INDICATES CEILING OR SOFFIT 7'-6" AFF TYP. U.N.O. SOFFIT TO T.O. UPPER CABINETS @ KITCHENS TYP. |
| [F.E.] | FIRE EXTINGUISHERS PER IFC. SEE EGRESS PLANS IN SECTION G CLASS 3A TYP. U.N.O.  |           |   |

**PLAN NOTES**

1. SEE INDIVIDUAL UNIT FLOOR PLANS IN SECTION A3 FOR DETAILED INFORMATION. (DIMENSIONS, CONSTRUCTION, DOOR/WINDOW, ETC.)
2. SEE ENLARGED STAIR/ELEVATOR SHEETS A801 & A802 FOR DETAILED INFORMATION.
3. PROPERTY LINES SHOWN FOR GENERAL INFORMATION ONLY. SEE SITE PLAN IN SECTION A1 FOR PLACEMENT OF BUILDING.
4. SEE SITE PLAN IN SECTION A100 FOR DETAILED INFORMATION OR SITE FEATURES.
5. THE BUILDING IS TO BE FIRE SPRINKLERED THROUGHOUT.
6. FIRE EXTINGUISHERS ARE TO BE LOCATED NO MORE THAN 75 FT OF TRAVEL TO THE NEAREST EXTINGUISHER. EXTINGUISHERS TO COMPLY WITH IFC 2009 906.1, BMC 20.08.22 AND NFPA 10.
7. FIRE EXTINGUISHER BOXES TO BE SURFACE MOUNT AT GARAGE COLUMNS/CONCRETE WALLS, ELSE SEMI-RECESSED WITH 4" MAX. PROTRUSION. BASE OF CABINET TO BE 27" MIN. A.F.F.
8. AUDIBLE AND VISIBLE ALARMS  
VISIBLE AND AUDIBLE NOTIFICATION DEVICES, SMOKE ALARMS AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS, AUDIBLE ALARMS (SECTION 907) MUST BE PROVIDED TO SERVE ALL OCCUPIABLE AREAS WHERE A FIRE ALARM SYSTEM IS REQUIRED BY THE CODE. VISIBLE ALARMS MUST BE PROVIDED IN AREAS WHERE THE AMBIENT NOISE LEVEL IS SUCH THAT AUDIBLE ALARMS MAY NOT BE HEARD (SECTION 907.5.2.1.2).
9. VISIBLE ALARMS ARE REQUIRED IN ALL PUBLIC-USE AND ALL COMMON-USE AREAS TO ALERT PEOPLE WITH HEARING IMPAIRMENTS (SECTION 907.5.2.3.1)
10. GROUP R-2 RESIDENTIAL BUILDINGS (SECTION 907.5.2.3.3). WHEN A BUILDING IS REQUIRED TO HAVE A GENERAL EVACUATION ALARM, PUBLIC AREAS ROOMS ARE REQUIRED TO HAVE VISIBLE AND AUDIBLE ALARMS. THE GENERAL ALARM NOTIFICATION MUST BE AUDIBLE WITHIN THE RESIDENTIAL UNITS. VISIBLE ALARM NOTIFICATION APPLIANCES ARE NOT REQUIRED WITHIN EACH UNIT, BUT VISIBLE NOTIFICATION CAN BE EASILY MADE AVAILABLE WHEN REQUESTED FOR PERSONS WITH HEARING IMPAIRMENTS, VIA THE SMOKE ALARMS WITHIN THEIR UNITS.
11. SINGLE- OR MULTIPLE-STATION SMOKE ALARMS ARE REQUIRED WITHIN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE OF ALL SLEEPING ROOMS, AND ON EACH FLOOR LEVEL IN A SUITE OR DWELLING UNIT (SECTION 907.2.11.2).
12. WHEN MULTIPLE SMOKE ALARMS ARE INSTALLED IN A UNIT, THEY MUST BE INTERCONNECTED (SECTION 907.2.11.5). IN GROUP R-2 FACILITIES, WHEN A BUILDING EVACUATION ALARM SYSTEM IS INSTALLED, A WIRE FROM THE GENERAL SYSTEM MUST BE PROVIDED TO ONE OF THE SMOKE DETECTORS IN THE UNIT (SECTION 907.5.2.3.3 AND ICC/ANSI A117.1, STANDARD ON ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SECTION 1006.4).
13. WHEN A PERSON WITH A HEARING IMPAIRMENT WANTS VISIBLE NOTIFICATION IN THEIR APARTMENT, IT IS EASY TO SWITCH OUT THE TYPICAL AUDIBLE SMOKE DETECTORS FOR SMOKE DETECTORS THAT HAVE VISIBLE AND AUDIBLE ALARMS (NOTE: ALARM DEVICES MUST BE LISTED FOR THE PURPOSE THEY ARE TO SERVE). THROUGH THE EXISTING WIRING, THE GENERAL BUILDING EVACUATION ALARM WILL BE CONNECTED TO THE SMOKE DETECTORS.
14. DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.), FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
15. AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATING USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED AT PARTY AND CORRIDOR WALLS.
16. ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1-2009, SECTION 404.2.2.
17. REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS PER ICC/ANSI A117.1-2009 SEC. 1003.11.4 AND 1004.11.2
18. SEE SECTION SHEETS A005, A006, AND A007 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS
19. PROVIDE DENSIFIELD, DUROCK, OR EQUIVALENT WATER RESISTANT WALLBOARD AT TUB/SHOWER AND OTHER WET LOCATIONS.

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**UNIT PLAN B**

PRINT DATE:  
2/15/2021 12:46:57 PM

**SHEET NO.  
A302**

**Dale Sweeney**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLM-001  
DATE: 6/26/2017  
DWN BY: Author  
CHKD BY: Checker  
R/S/D:

REVISIONS

NO.	DATE	Revision Description
3	1/19/21	City Comments



**Dale Sweeney**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLN-001  
DATE: 6/26/2017  
DWG. BY: Author  
CHKD BY: Checker  
RVS'D:

NO.	DATE	Revision Description

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**UNIT PLAN C (UNIT  
REVERSED)**

PRINT DATE:  
2/15/2021 12:46:59 PM

**SHEET NO.  
A303**

**PLAN NOTES**

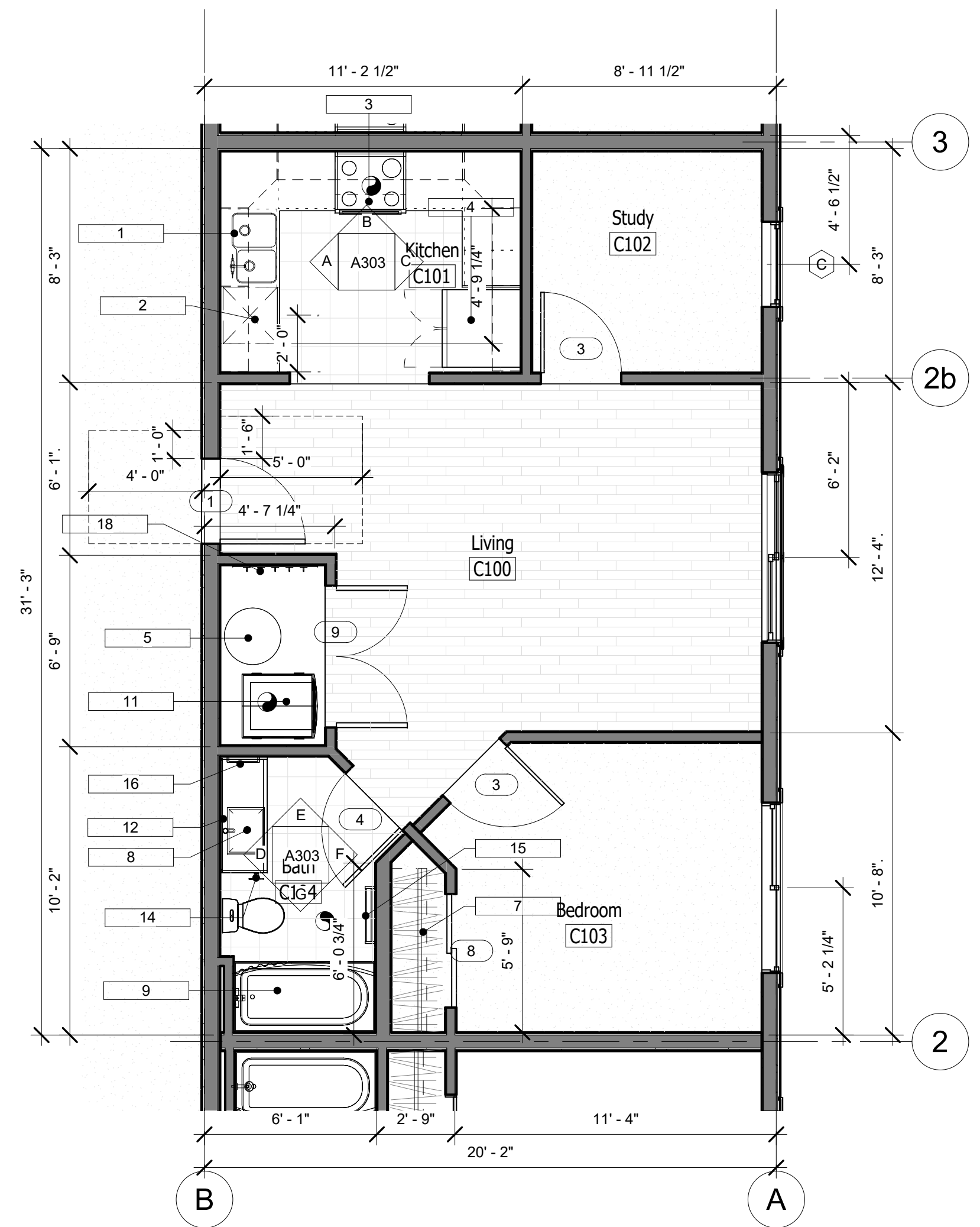
- SEE INDIVIDUAL UNIT FLOOR PLANS IN SECTION A3 FOR DETAILED INFORMATION. (DIMENSIONS, CONSTRUCTION, DOOR/WINDOW, ETC.)
- SEE ENLARGED STAIR/ELEVATOR SHEETS A801 & A802 FOR DETAILED INFORMATION.
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**PLAN KEY NOTES:**

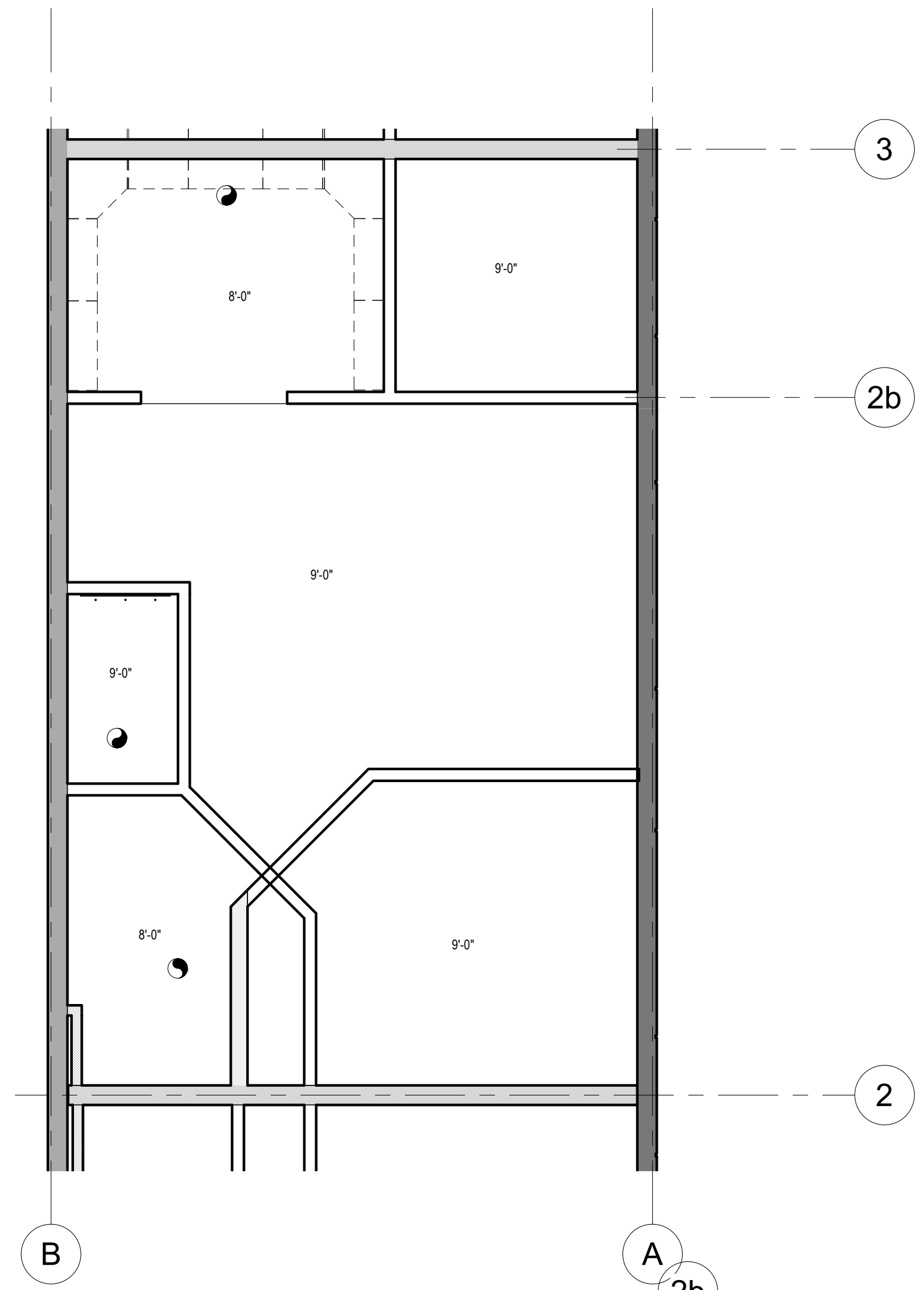
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**SYMBOLS & LEGEND:**

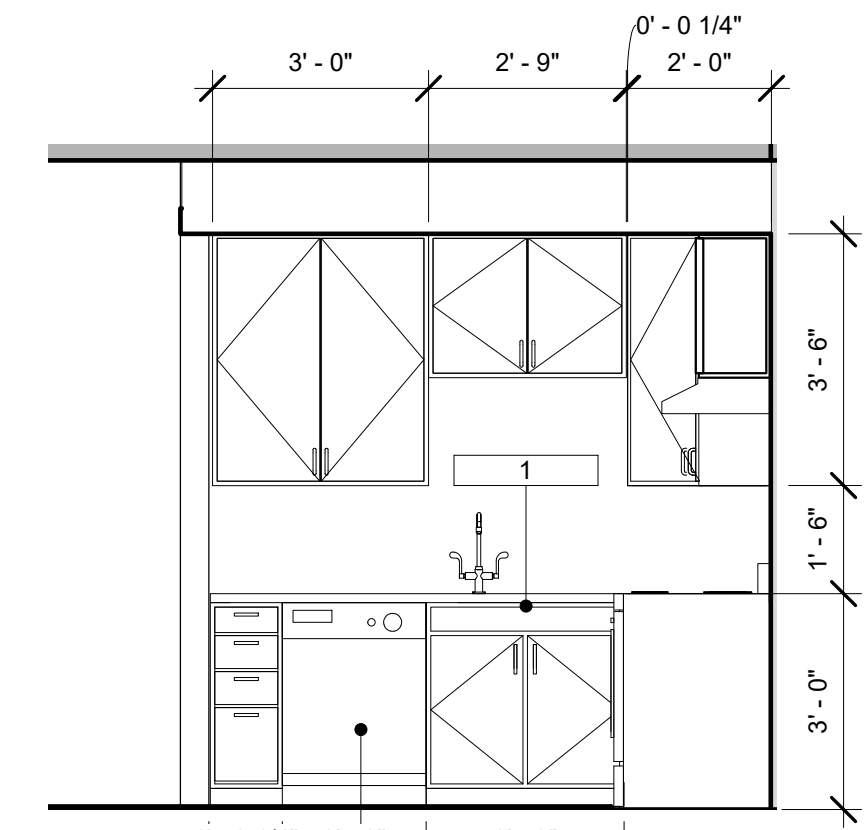
- |  |  |
|--|--|
| <b>F</b> EXHAUST FAN: SEE SECTION G FOR ENERGY COMPLIANCE  | <b>1</b> INDICATES WINDOW TYPE: SEE WINDOW SCHEDULE IN SECTION A601                                      |
| <b>SD</b> 110V SMOKE DETECTOR W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2. SEE UNIT PLANS.  | <b>001</b> INDICATES DOOR TYPE: SEE DOOR SCHEDULE IN SECTION A601  |
| <b>SD/CO</b> <b>SD/CO</b> DENOTES COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR, 110V W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTIONS 907.2.11.2 AND 907.2.9.3. SEE UNIT PLANS. | <b>#</b> INDICATES PARKING STALL COUNT.  |
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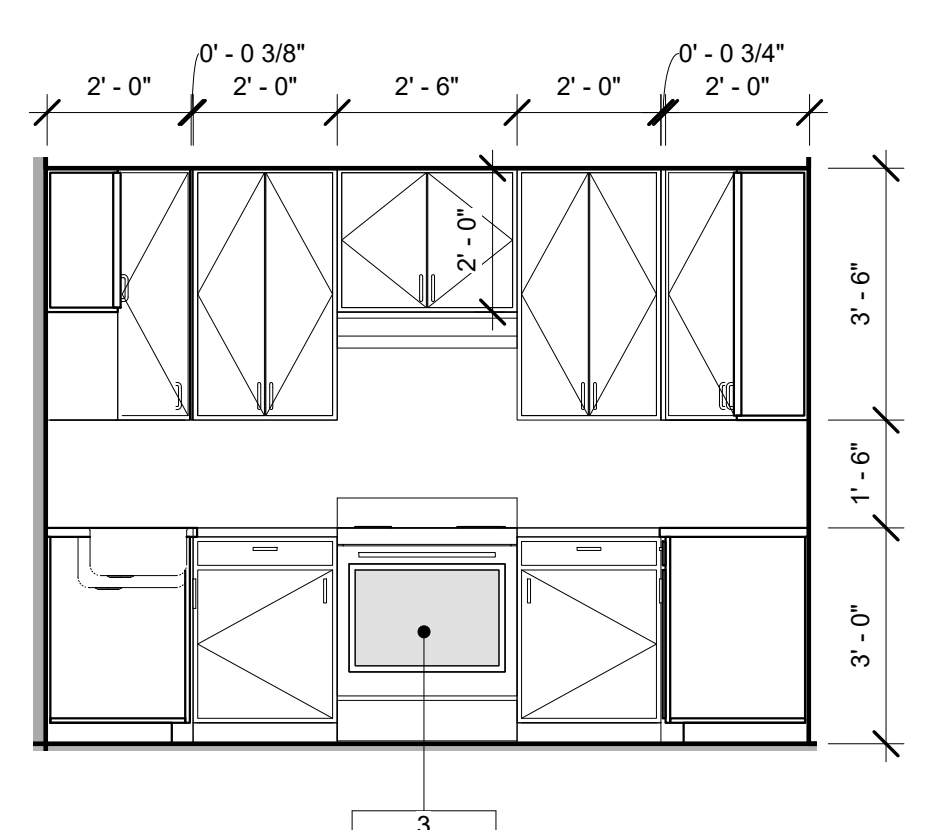
2 Unit C - Enlarged Plan  
1/4" = 1'-0"



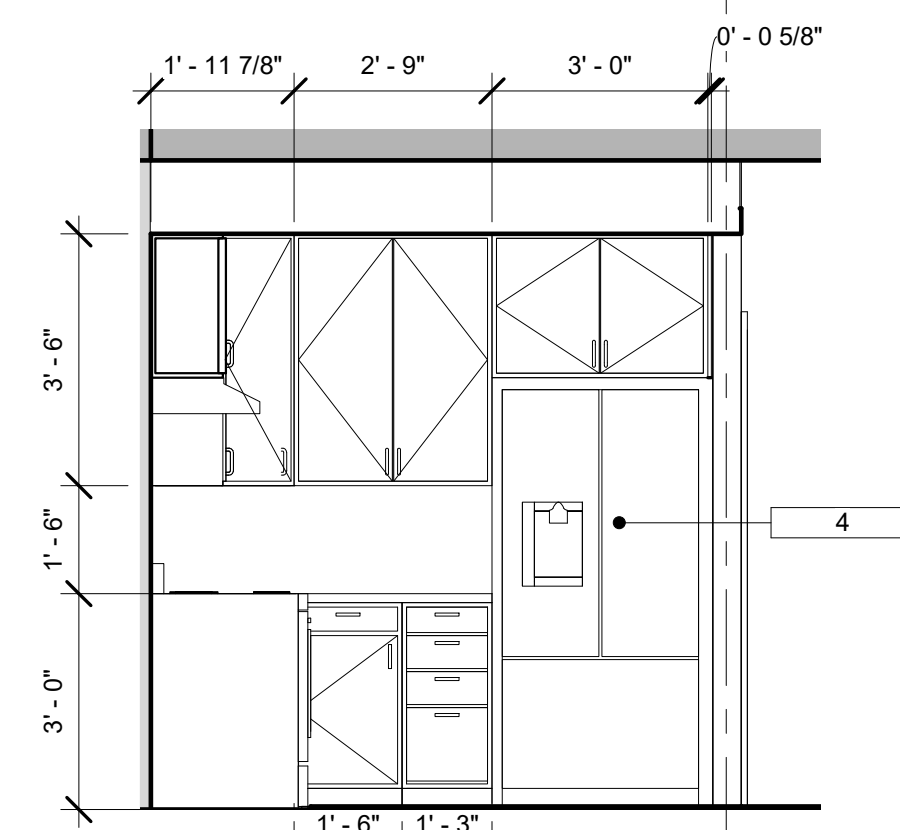
1 Unit C - Ceiling Plan  
1/4" = 1'-0"



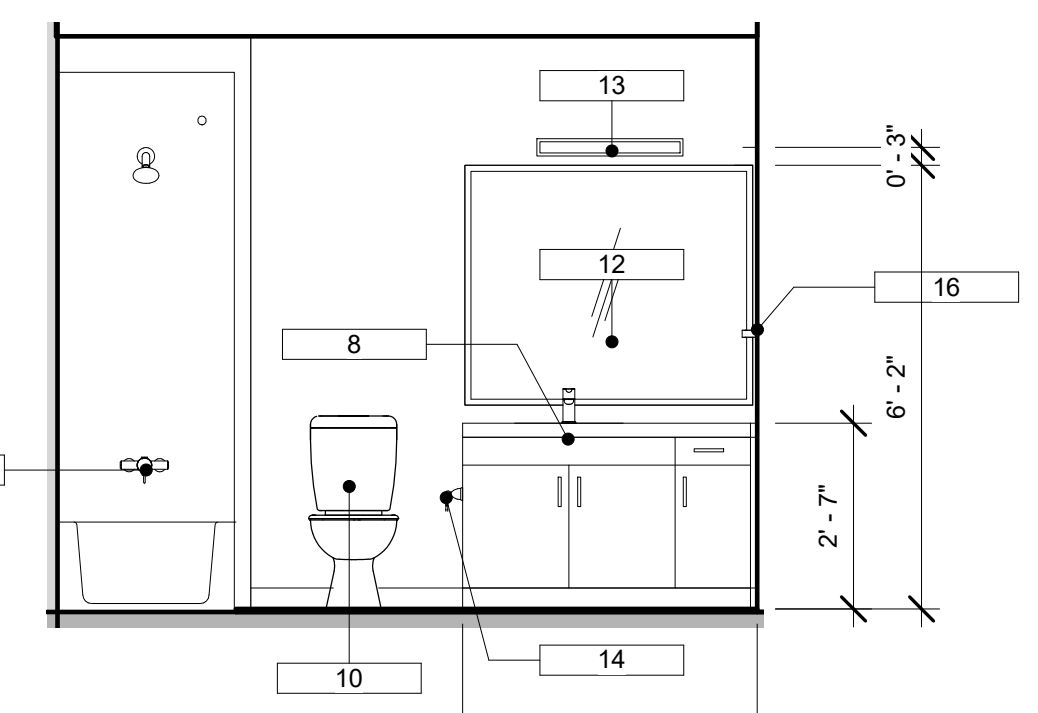
A Unit C - Kitchen West  
3/8" = 1'-0"



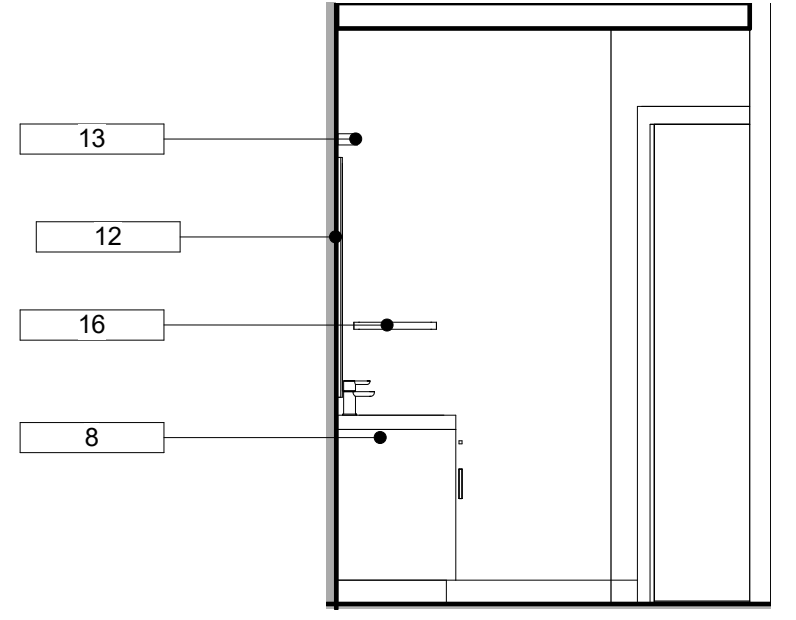
B Unit C - Kitchen North  
3/8" = 1'-0"



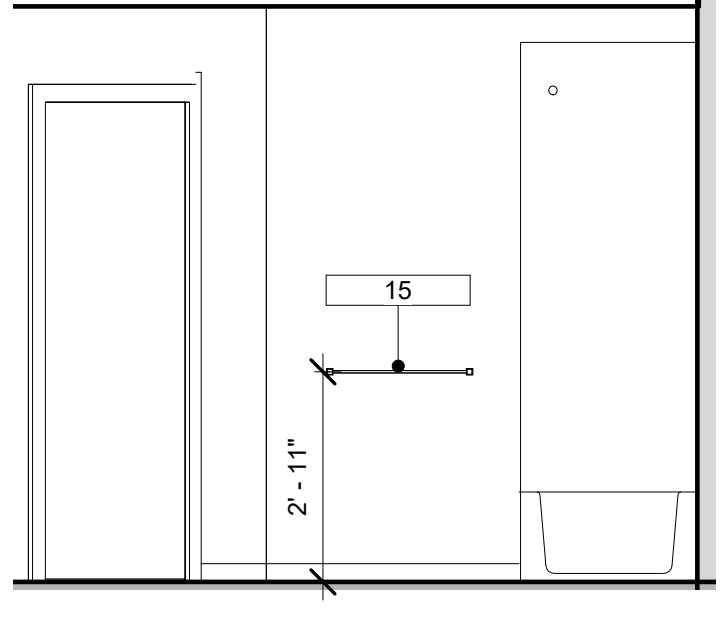
C Unit C - Kitchen East  
3/8" = 1'-0"



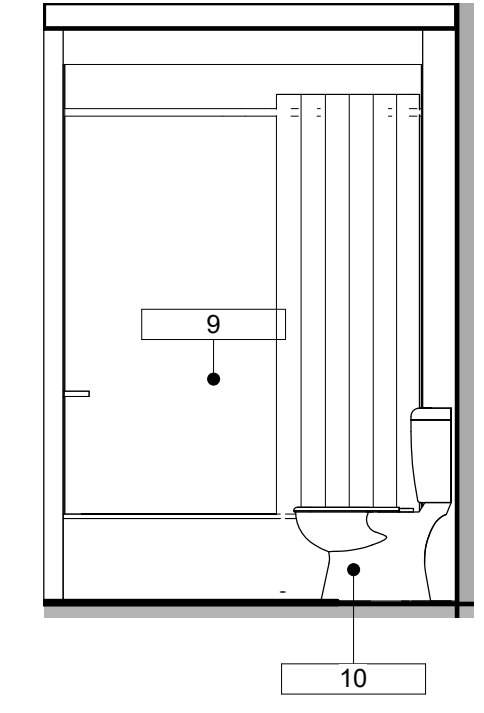
D Unit C - Bath West  
3/8" = 1'-0"



E Unit C - Bath North  
3/8" = 1'-0"



F Unit C - Bath East  
3/8" = 1'-0"



G Unit C - Bath South  
3/8" = 1'-0"

NO.	DATE	Revision Description

**PLAN NOTES**

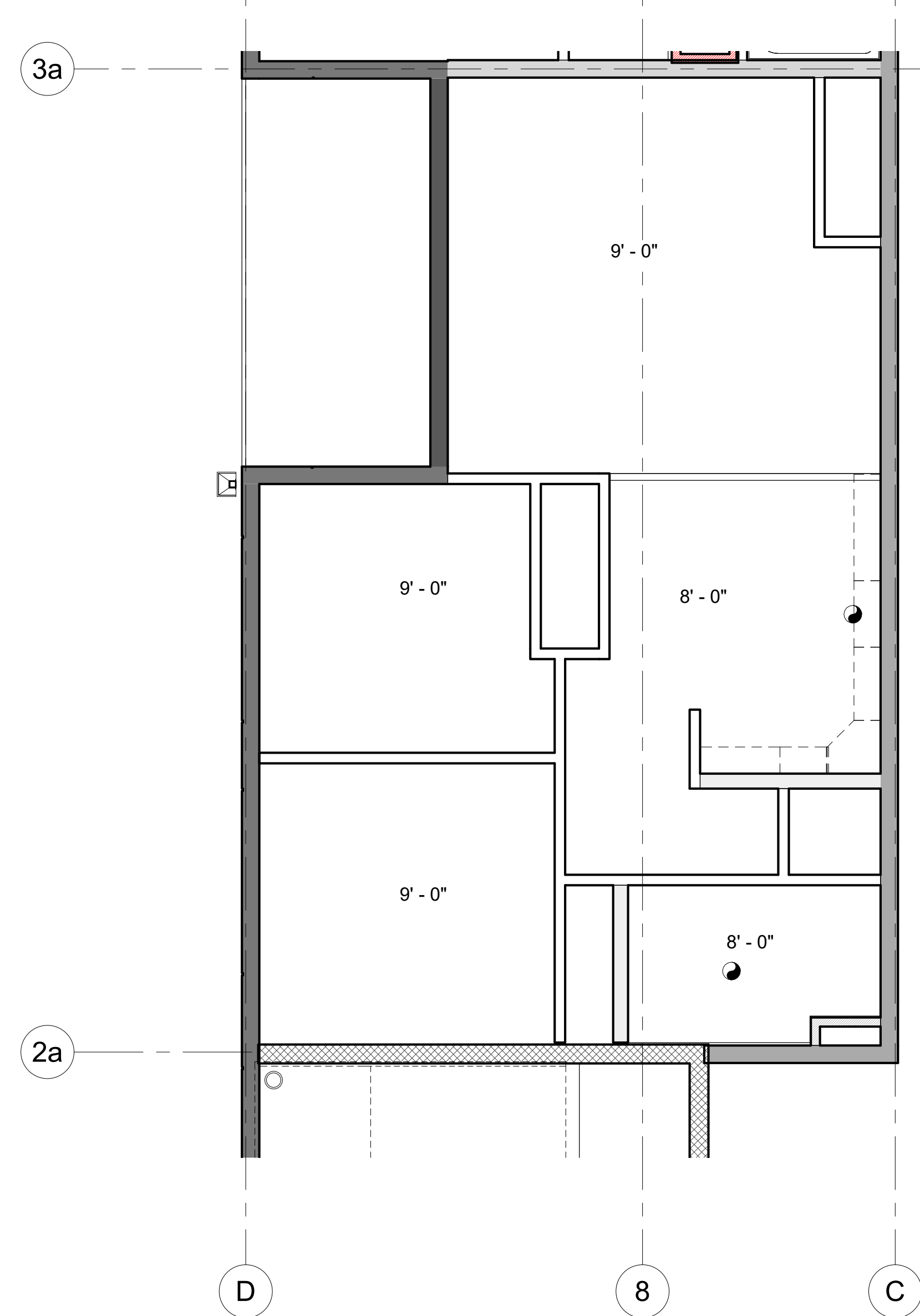
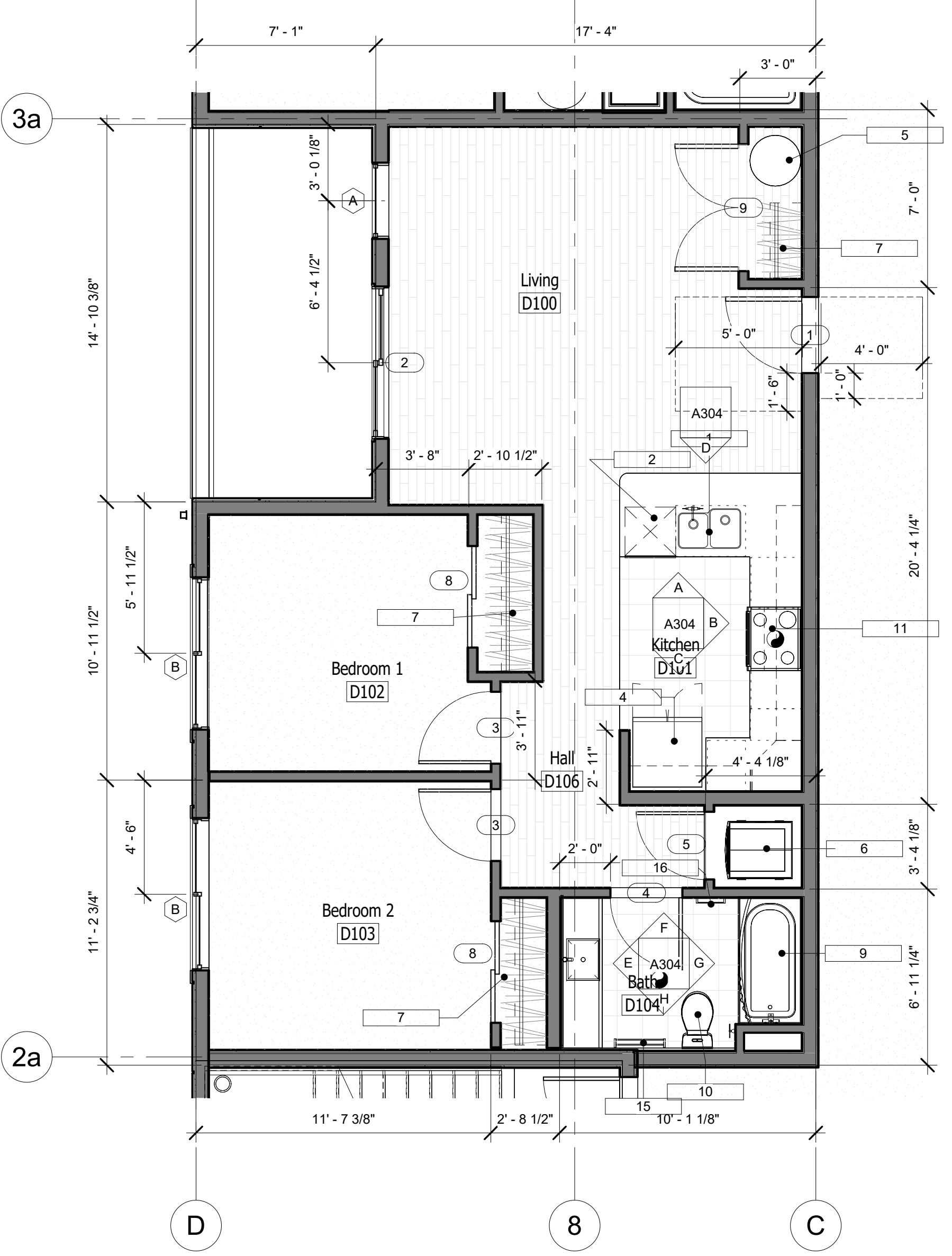
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- VISIBLE ALARMS ARE REQUIRED IN ALL PUBLIC-USE AND ALL COMMON-USE AREAS TO ALERT PEOPLE WITH HEARING IMPAIRMENTS (SECTION 907.5.2.3.1)
- GROUP R-2 RESIDENTIAL BUILDINGS (SECTION 907.5.2.3.3). WHEN A BUILDING IS REQUIRED TO HAVE A GENERAL EVACUATION ALARM, PUBLIC AREAS ROOMS ARE REQUIRED TO HAVE VISIBLE AND AUDIBLE ALARMS. THE GENERAL ALARM NOTIFICATION MUST BE AUDIBLE WITHIN THE RESIDENTIAL UNITS. VISIBLE ALARM NOTIFICATION APPLIANCES ARE NOT REQUIRED WITHIN EACH UNIT, BUT VISIBLE NOTIFICATION CAN BE EASILY MADE AVAILABLE WHEN REQUESTED FOR PERSONS WITH HEARING IMPAIRMENTS, VIA THE SMOKE ALARMS WITHIN THEIR UNITS.
- SINGLE- OR MULTIPLE-STATION SMOKE ALARMS ARE REQUIRED WITHIN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE OF ALL SLEEPING ROOMS, AND ON EACH FLOOR LEVEL IN A SUITE OR DWELLING UNIT (SECTION 907.2.11.2).
- WHEN MULTIPLE SMOKE ALARMS ARE INSTALLED IN A UNIT, THEY MUST BE INTERCONNECTED (SECTION 907.2.11.5). IN GROUP R-2 FACILITIES, WHEN A BUILDING EVACUATION ALARM SYSTEM IS INSTALLED, A WIRE FROM THE GENERAL SYSTEM MUST BE PROVIDED TO ONE OF THE SMOKE DETECTORS IN THE UNIT (SECTION 907.5.2.3.3 AND ICC/ANSI A117.1, STANDARD ON ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SECTION 1006.4).
- WHEN A PERSON WITH A HEARING IMPAIRMENT WANTS VISIBLE NOTIFICATION IN THEIR APARTMENT, IT IS EASY TO SWITCH OUT THE TYPICAL AUDIBLE SMOKE DETECTORS FOR SMOKE DETECTORS THAT HAVE VISIBLE AND AUDIBLE ALARMS (NOTE: ALARM DEVICES MUST BE LISTED FOR THE PURPOSE THEY ARE TO SERVE). THROUGH THE EXISTING WIRING, THE GENERAL BUILDING EVACUATION ALARM WILL BE CONNECTED TO THE SMOKE DETECTORS.
- DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.), FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
- AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATING USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED AT PARTY AND CORRIDOR WALLS.
- ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1-2009, SECTION 404.2.2.
- REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS PER ICC/ANSI A117.1-2009 SEC. 1003.11.4 AND 1004.11.2
- SEE SECTION SHEETS A005, A006, AND A007 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS
- PROVIDE DENSHELD, DUROCK, OR EQUIVILANT WATER RESISTANT WALLBOARD AT TUB/SHOWER AND OTHER WET LOCATIONS.

**PLAN KEY NOTES:**

- KITCHEN SINK W/DISP.
- DISHWASHER
- RANGE WITH HOOD
- REFRIGERATOR
- WATER HEATER
- STACK WASHER/DRYER
- CLOSET ROD AND SHELF
- VANITY
- TUB/SHOWER w/STANDARD SHOWER HEAD AND VALVES
- TOILET
- TOILET WITH GRAB BARS - SEE SHEETS A005 & A006
- MIRROR
- TOILET PAPER HOLDER
- 24" DOUBLE TOWEL BAR
- 15" SINGLE TOWEL BAR
- 5 FT. COAT HOOK BOARD w/ 9 MTL. HOOKS
- 3FT COAT HOOK BOARD w/ 5 MTL. HOOKS
- WASHER & DRYER SIDE-BY-SIDE - COMPLY WITH ANSI A117.1 ACCESSIBILITY - SEE SHEET A006
- ANSI A117.1 COMPLIANT SHOWER HEAD WITH SLIDING BAR
- ANSI COMPLIANT SIDE-BY-SIDE WASHER/DRYER

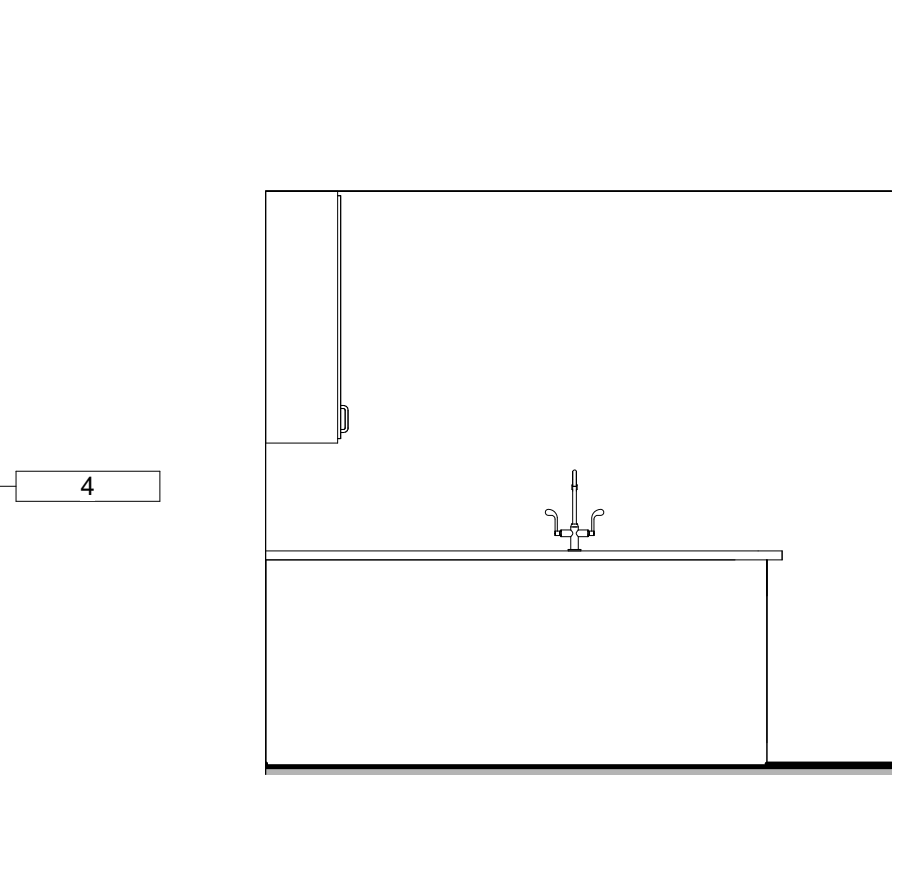
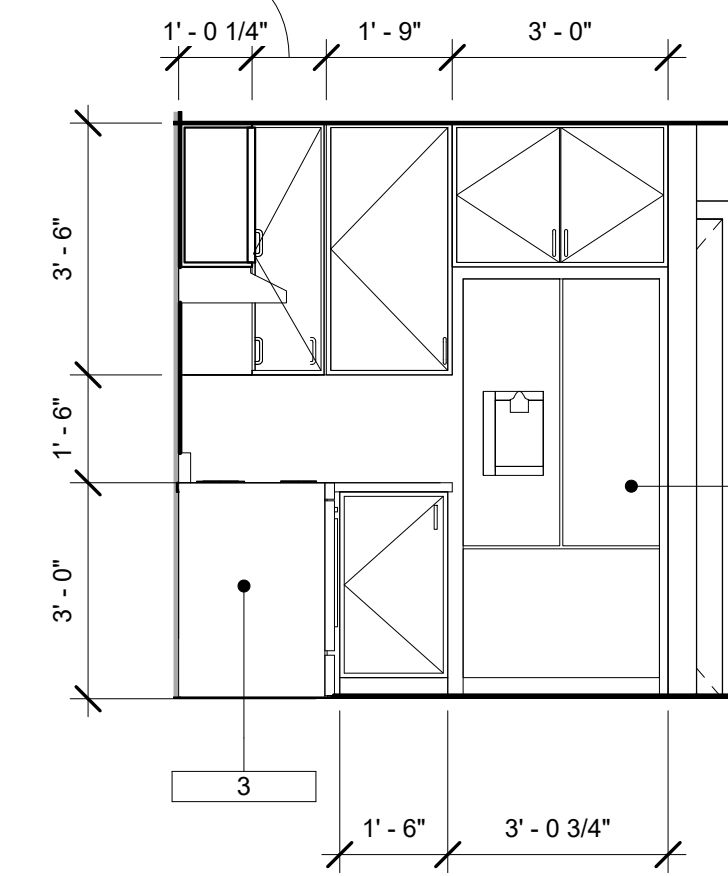
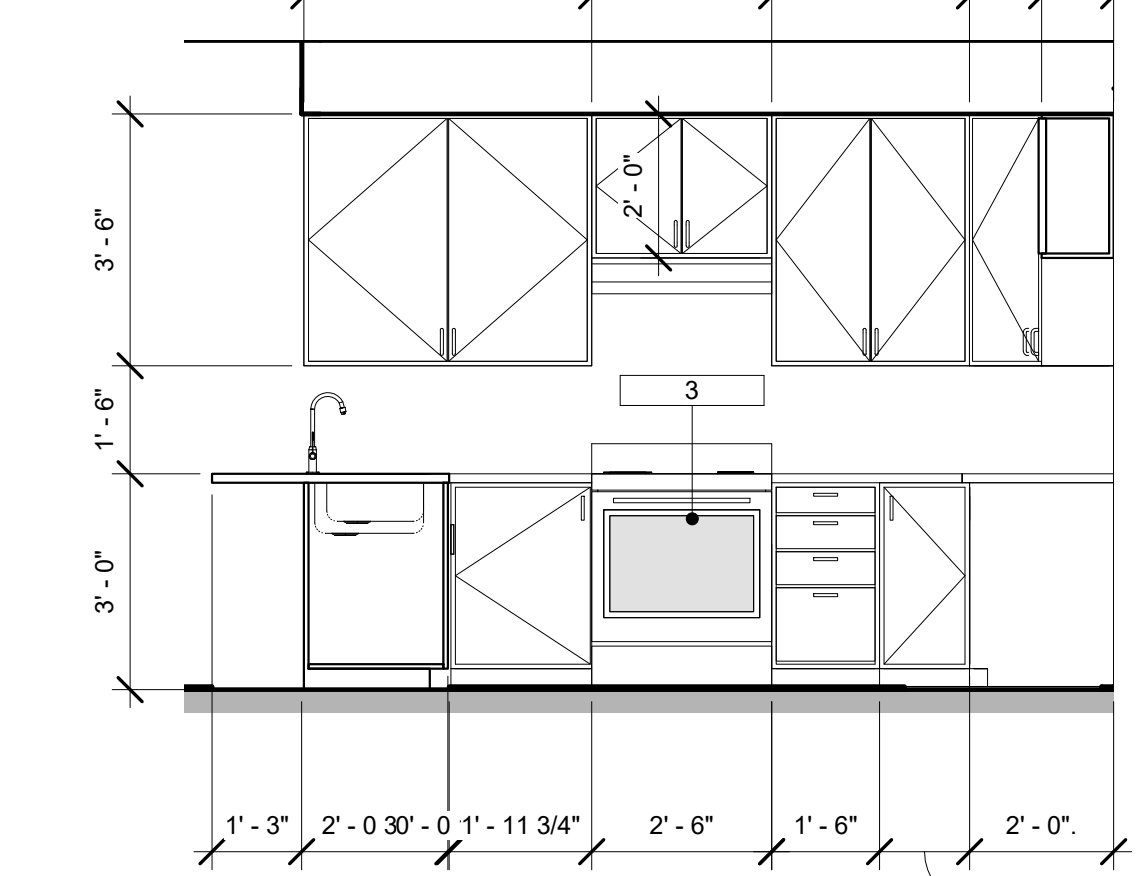
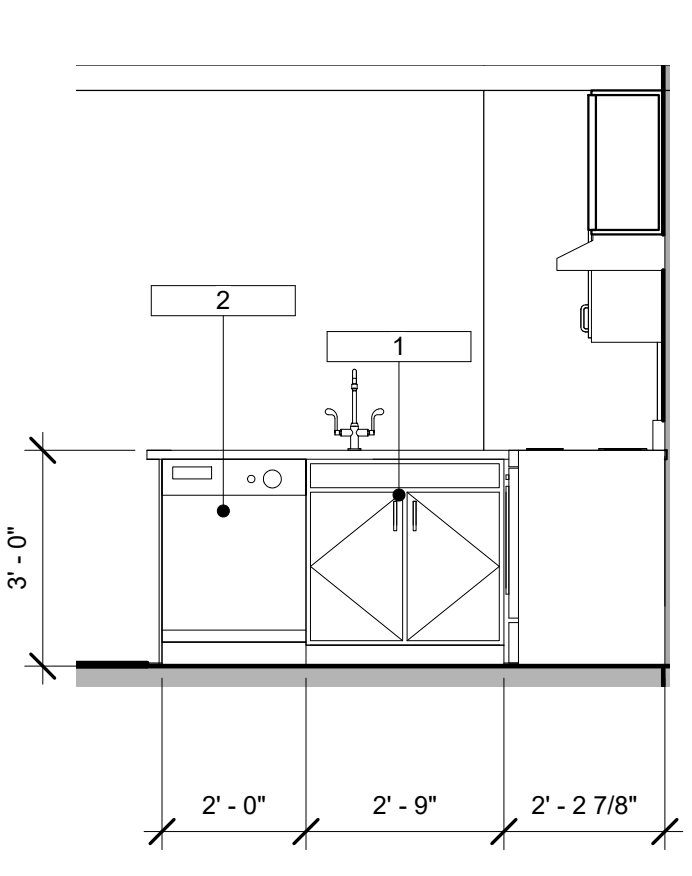
**SYMBOLS & LEGEND:**

- |        |  |       |   |
|--------|--|-------|---|
| [F]    | EXHAUST FAN: SEE SECTION G FOR ENERGY COMPLIANCE.  | [1]   | INDICATES WINDOW TYPE: SEE WINDOW SCHEDULE IN SECTION A601                                      |
| SD     | 110V SMOKE DETECTOR W/ DISCONNECTION SWITCH & BATTERY BACKUP. INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2. SEE UNIT PLANS.  | [001] | INDICATES DOOR TYPE: SEE DOOR SCHEDULE IN SECTION A601  |
| SD/CO  | SD/CO DENOTES COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR. 110V W/ DISCONNECTION SWITCH & BATTERY BACKUP. INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTIONS 907.2.11.2 AND 907.2.9.3. SEE UNIT PLANS. | [#]   | INDICATES PARKING STALL COUNT.  |
| [EXIT] | ILLUMINATED EXIT SIGN AS NOTED AND PER IBC 1011.   | [ ]   | INDICATES 60" DIAMETER UNOBSTRUCTED FLOOR SPACE. SEE UNIT PLANS AND ENLARGED PLANS              |
| [E]    | EMERGENCY LIGHT PER IBC 1006.  | [ ]   | INDICATES 30" X 48" MANEUVERING SPACE. SEE UNIT PLANS AND ENLARGED PLANS.                       |
| [1]    | INDICATES WALL TYPE: SEE WALL ASSEMBLY SCHEDULE  | [ ]   | INDICATES CEILING OR SOFFIT 7'-6" AFF TYP. U.N.O. SOFFIT TO T.O. UPPER CABINETS @ KITCHENS TYP. |
| [F.E.] | FIRE EXTINGUISHERS PER IFC. SEE EGRESS PLANS IN SECTION G CLASS 3A TYP. U.N.O.   | [ ]   | PAINTED STRIPE AREA PER CITY REQUIREMENTS   |



② Unit D - Enlarged Plan  
1/4" = 1'-0"

① Unit D - Ceiling Plan  
1/4" = 1'-0"

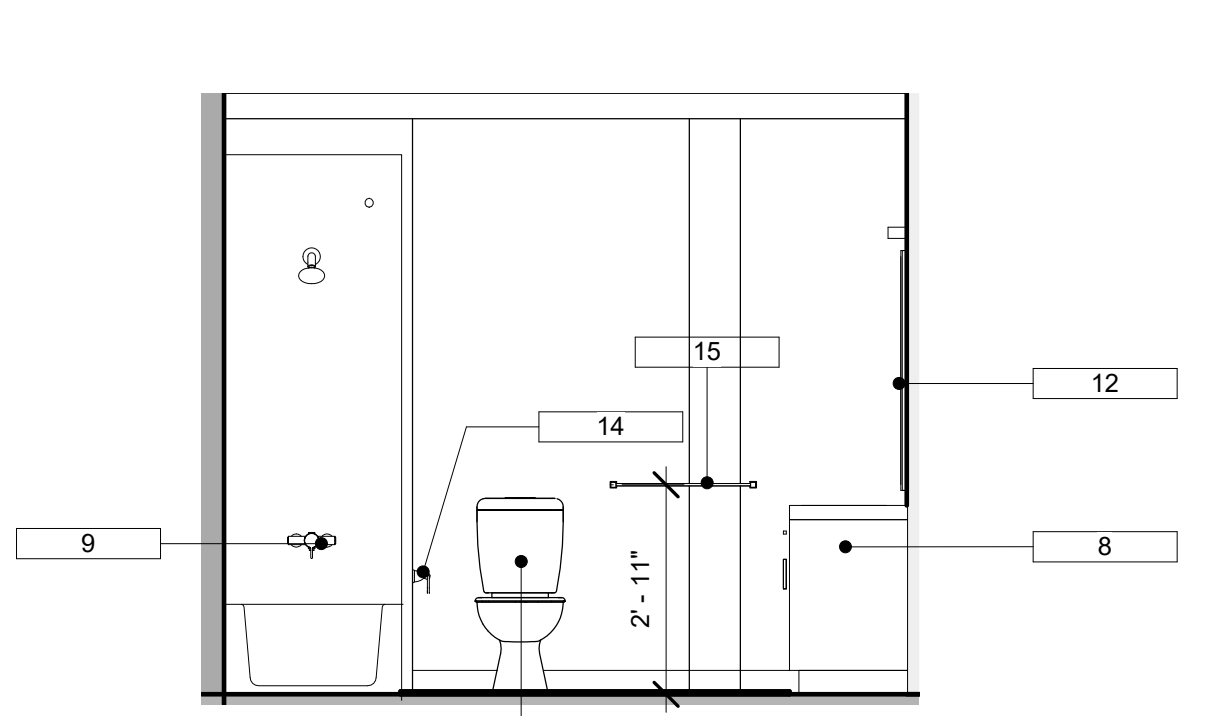
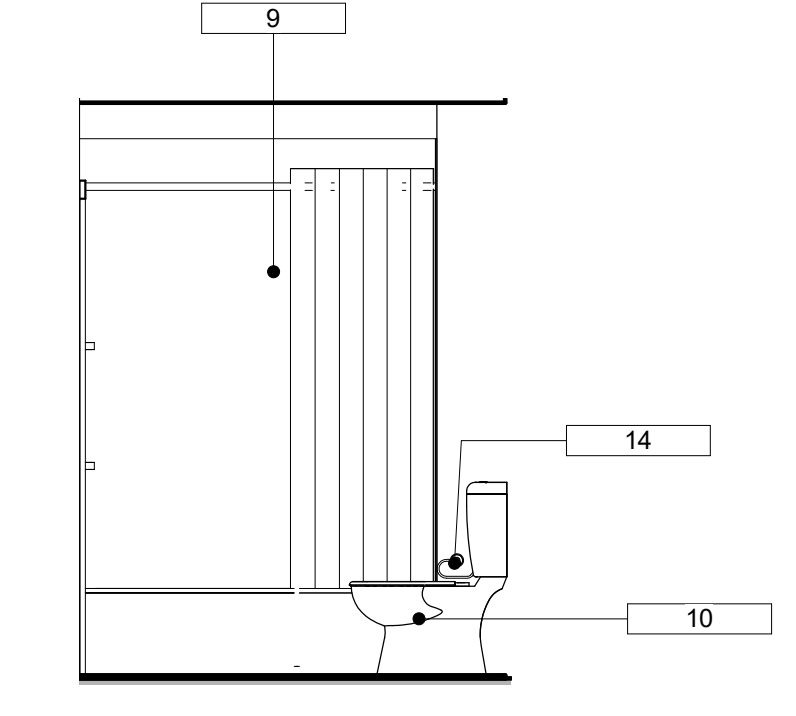
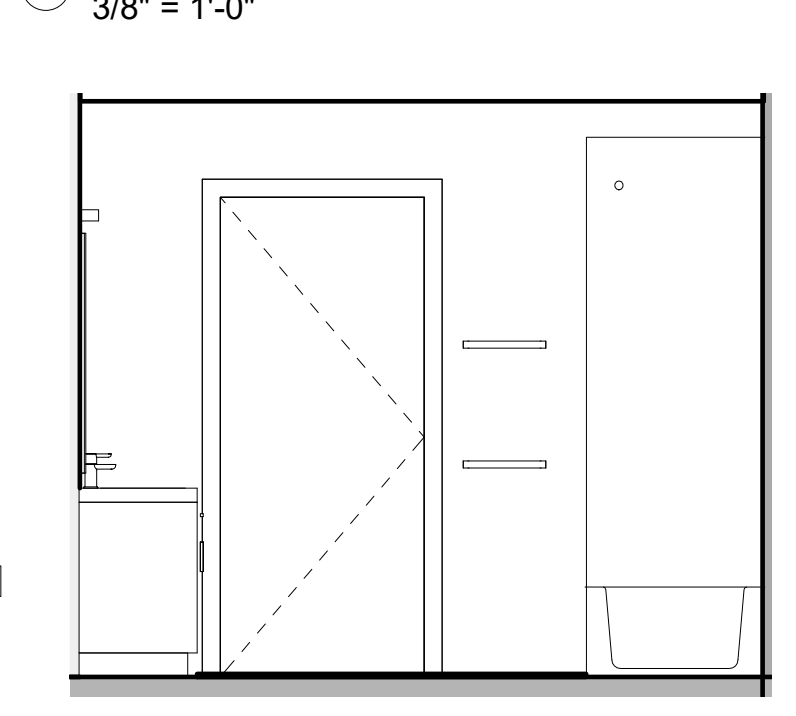
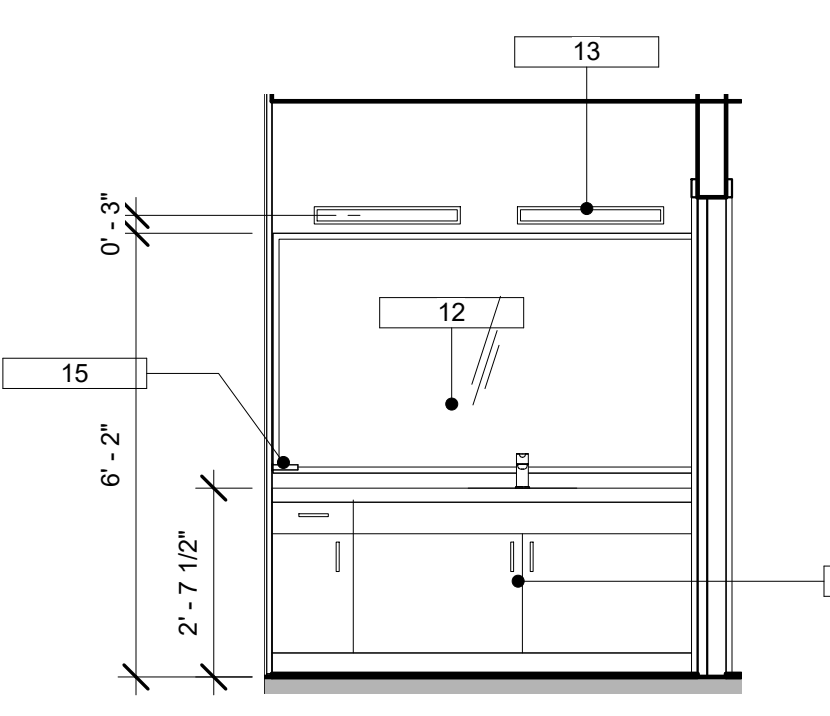


Ⓐ Unit D - Kitchen North  
3/8" = 1'-0"

Ⓑ Unit D - Kitchen East  
3/8" = 1'-0"

Ⓒ Unit D - Kitchen South  
3/8" = 1'-0"

Ⓓ Unit D - Kitchen Bar South  
3/8" = 1'-0"

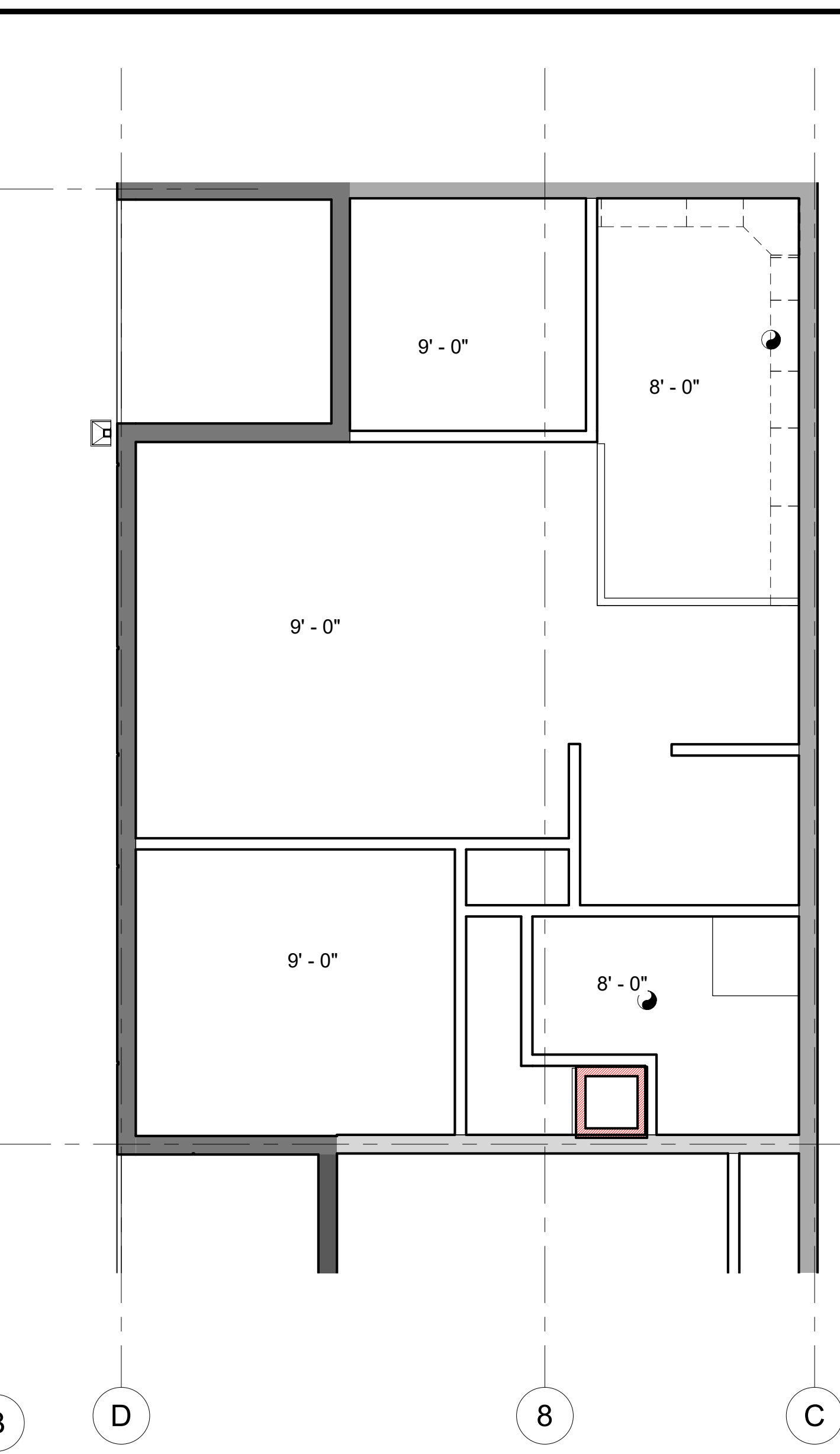
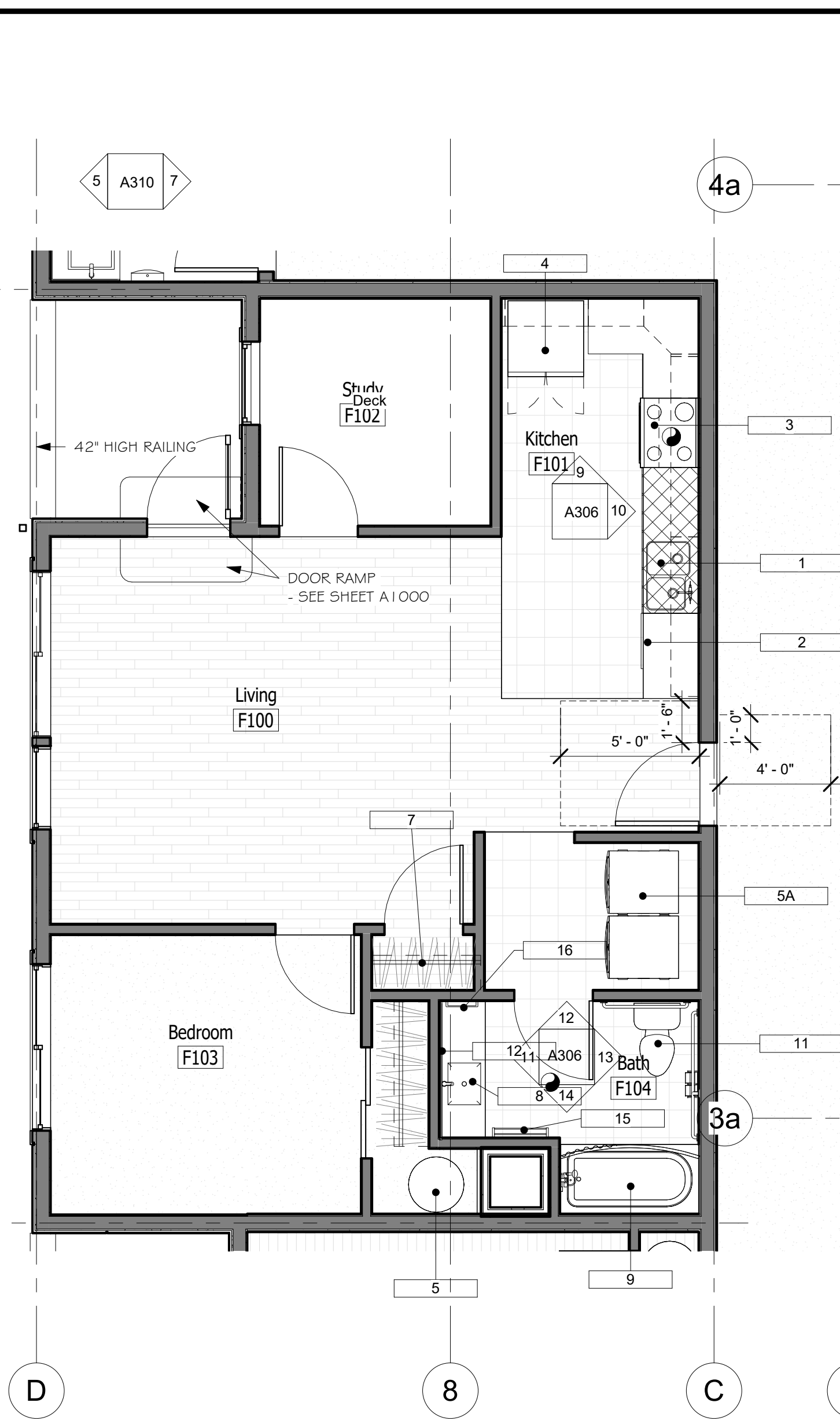
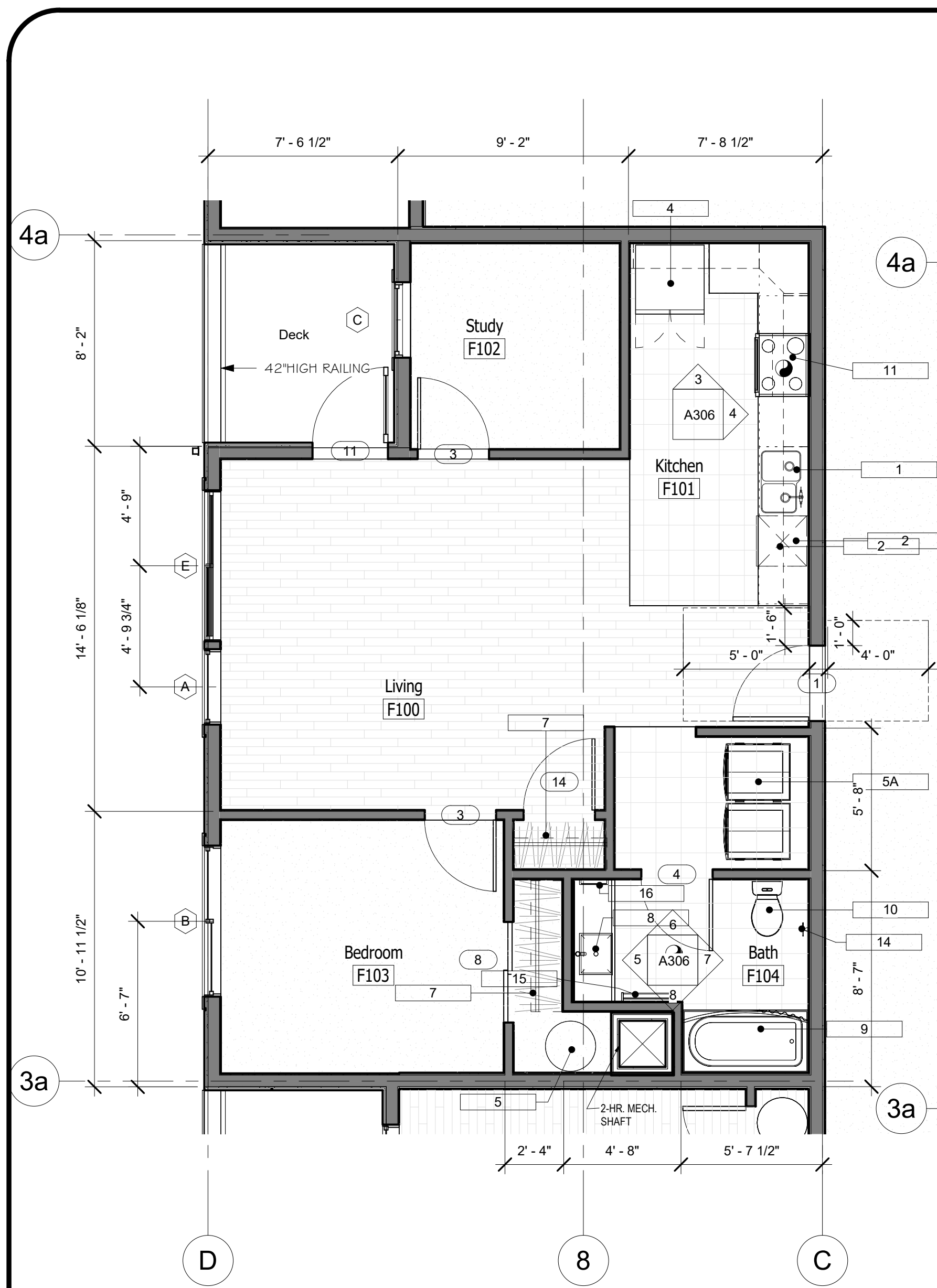


Ⓔ Unit D - Bath West  
3/8" = 1'-0"

Ⓕ Unit D - Bath North  
3/8" = 1'-0"

Ⓖ Unit D - Bath East  
3/8" = 1'-0"

Ⓗ Unit D - Bath South  
3/8" = 1'-0"



**PLAN KEY NOTES:**

- 1) KITCHEN SINK W/DISP.
- 2) DISHWASHER
- 3) RANGE WITH HOOD
- 4) REFRIGERATOR
- 5) WATER HEATER
- 6) STACK WASHER/DRYER
- 7) CLOSET ROD AND SHELF
- 8) VANITY
- 9) TUB/SHOWER w/STANDARD SHOWER HEAD AND VALVES
- 10) TOILET
- 11) TOILET WITH GRAB BARS - SEE SHEETS A005 & A006
- 12) MIRROR
- 13) VANITY LIGHT
- 14) TOILET PAPER HOLDER
- 15) 24" DOUBLE TOWEL BAR
- 16) 15" SINGLE TOWEL BAR
- 17) 5 FT. COAT HOOK BOARD w/ 9 MTL. HOOKS
- 18) 3FT COAT HOOK BOARD w/ 5 MTL. HOOKS
- 19) WASHER & DRYER SIDE-BY-SIDE - COMPLY WITH ANSI A117.1 ACCESSIBILITY - SEE SHEET A006
- 20) ANSI A117.1 COMPLIANT SHOWER HEAD WITH SLIDING BAR
- 21) ANSI COMPLIANT SIDE-BY-SIDE WASHER/DRYER

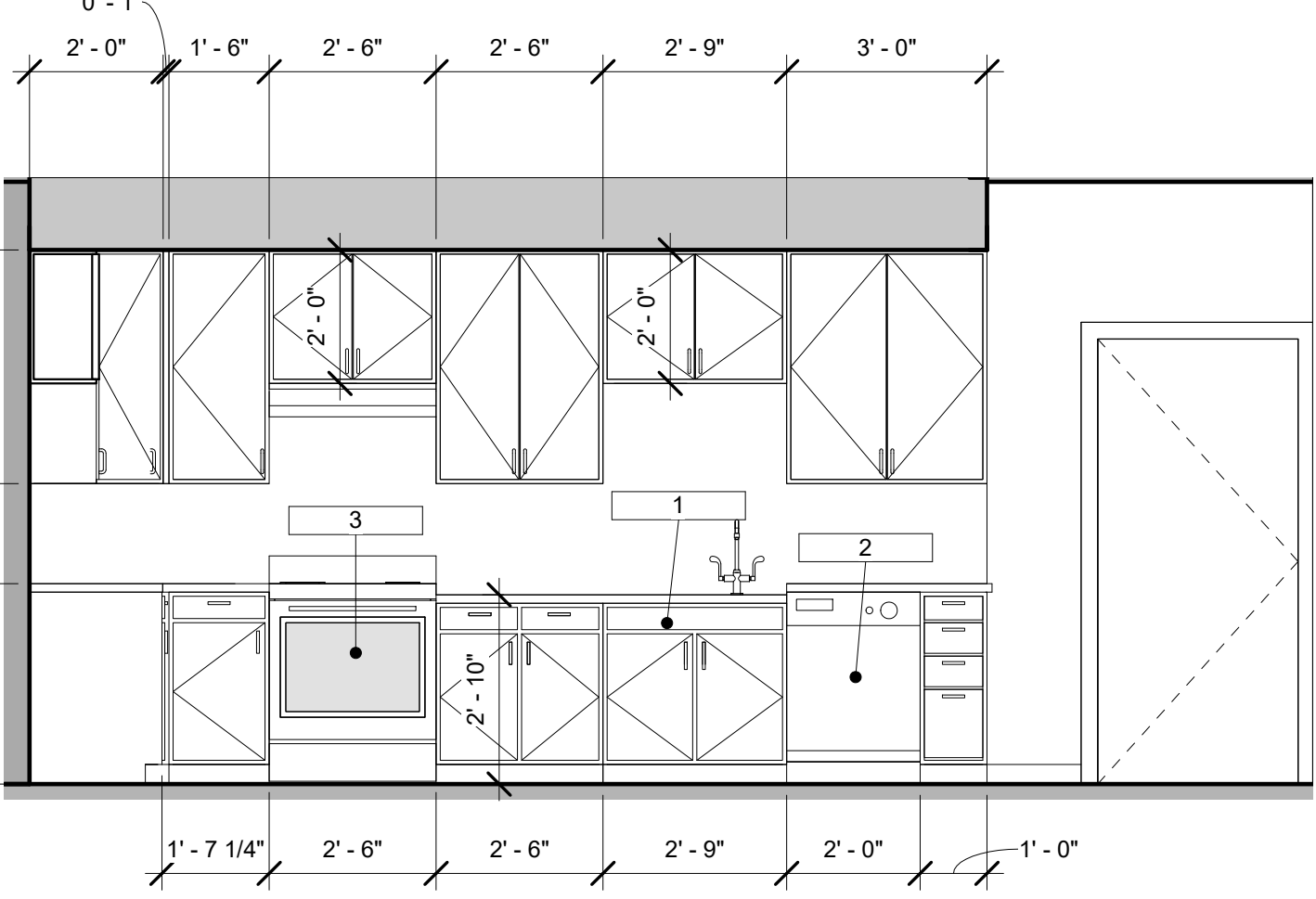
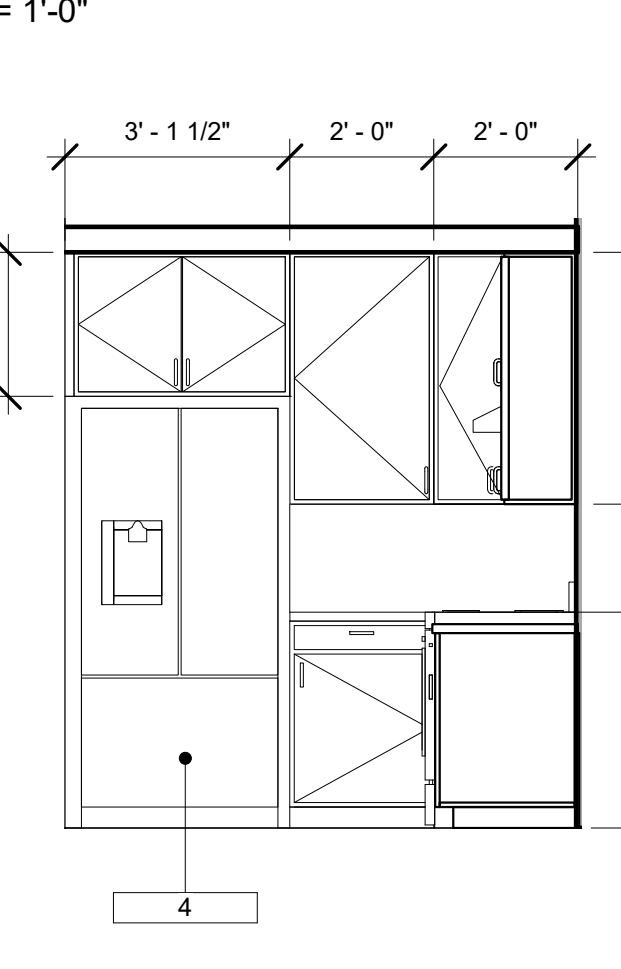
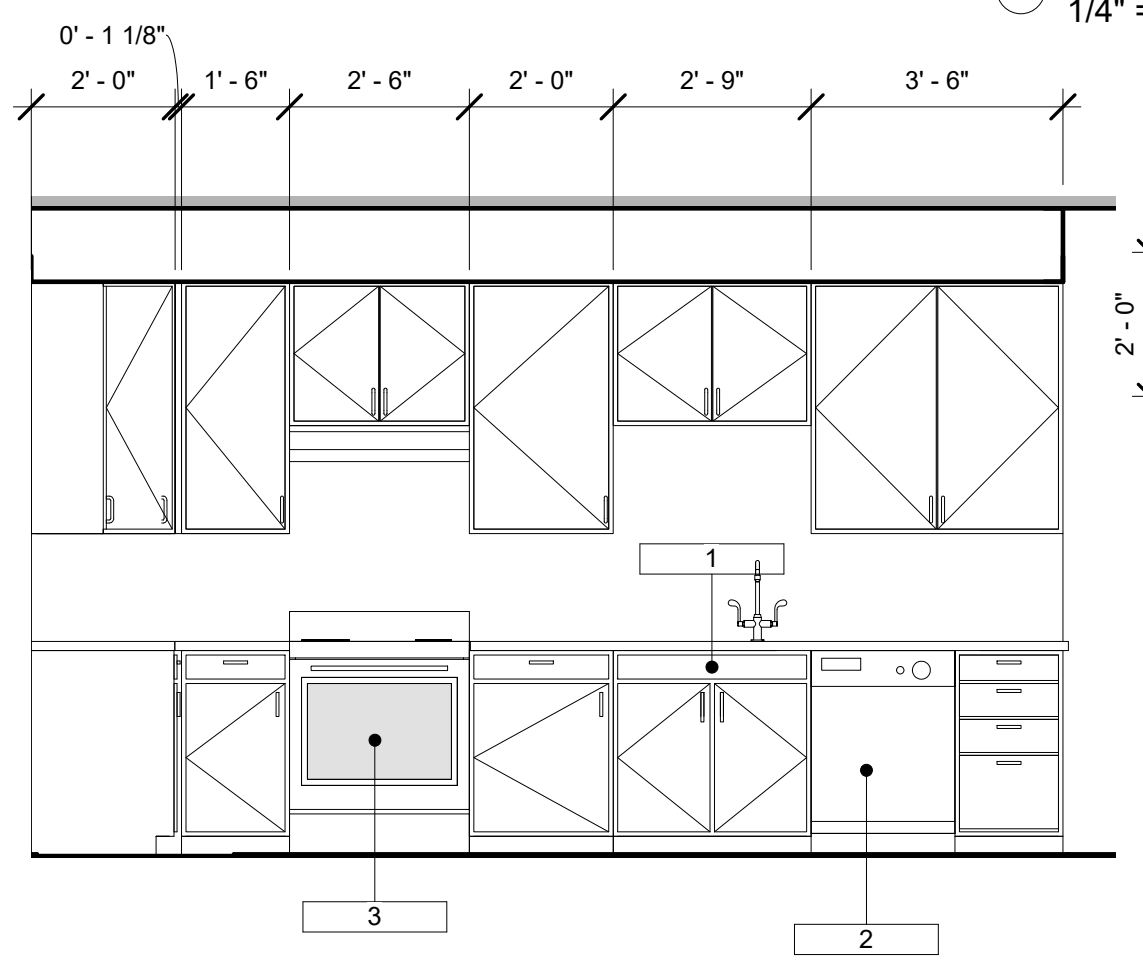
**PLAN NOTES**

1. SEE INDIVIDUAL UNIT FLOOR PLANS IN SECTION A3 FOR DETAILED INFORMATION. (DIMENSIONS, CONSTRUCTION, DOOR/WINDOW, ETC.)
2. SEE ENLARGED STAIR/ELEVATOR SHEETS A801 & A802 FOR DETAILED INFORMATION.
3. PROPERTY LINES SHOWN FOR GENERAL INFORMATION ONLY. SEE SITE PLAN IN SECTION A1 FOR PLACEMENT OF BUILDING.
4. SEE SITE PLAN IN SECTION A100 FOR DETAILED INFORMATION OR SITE FEATURES.
5. THE BUILDING IS TO BE FIRE SPRINKLERED THROUGHOUT.
6. FIRE EXTINGUISHERS ARE TO BE LOCATED NO MORE THAN 75 FT OF TRAVEL TO THE NEAREST EXTINGUISHER. EXTINGUISHERS TO COMPLY WITH IFC 2009 906.1, BMC 20.08.22 AND NFPA 10.
7. FIRE EXTINGUISHER BOXES TO BE SURFACE MOUNT AT GARAGE COLUMNS/CONCRETE WALLS, ELSE SEMI-RECESSED WITH 4" MAX. PROTRUSION. BASE OF CABINET TO BE 27" MIN. A.F.F.
8. AUDIBLE AND VISIBLE ALARMS VISIBLE AND AUDIBLE NOTIFICATION DEVICES, SMOKE ALARMS AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS. AUDIBLE ALARMS (SECTION 907) MUST BE PROVIDED TO SERVE ALL OCCUPIABLE AREAS WHERE A FIRE ALARM SYSTEM IS REQUIRED BY THE CODE. VISIBLE ALARMS MUST BE PROVIDED IN AREAS WHERE THE AMBIENT NOISE LEVEL IS SUCH THAT AUDIBLE ALARMS MAY NOT BE HEARD (SECTION 907.5.2.1.2).
9. VISIBLE ALARMS ARE REQUIRED IN ALL PUBLIC-USE AND ALL COMMON-USE AREAS TO ALERT PEOPLE WITH HEARING IMPAIRMENTS (SECTION 907.5.2.3.1)
10. GROUP R-2 RESIDENTIAL BUILDINGS (SECTION 907.5.2.3.3). WHEN A BUILDING IS REQUIRED TO HAVE A GENERAL EVACUATION ALARM, PUBLIC AREAS ROOMS ARE REQUIRED TO HAVE VISIBLE AND AUDIBLE ALARMS. THE GENERAL ALARM NOTIFICATION MUST BE AUDIBLE WITHIN THE RESIDENTIAL UNITS. VISIBLE ALARM NOTIFICATION APPLIANCES ARE NOT REQUIRED WITHIN EACH UNIT, BUT VISIBLE NOTIFICATION CAN BE EASILY MADE AVAILABLE WHEN REQUESTED FOR PERSONS WITH HEARING IMPAIRMENTS, VIA THE SMOKE ALARMS WITHIN THEIR UNITS.
11. SINGLE- OR MULTIPLE-STATION SMOKE ALARMS ARE REQUIRED WITHIN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE OF ALL SLEEPING ROOMS, AND ON EACH FLOOR LEVEL IN A SUITE OR DWELLING UNIT (SECTION 907.2.11.2).
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14. DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.), FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
15. AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATING USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED AT PARTY AND CORRIDOR WALLS.
16. ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1-2009, SECTION 404.2.2.
17. REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS PER ICC/ANSI A117.1-2009 SEC. 1003.11.4 AND 1004.11.2
18. SEE SECTION SHEETS A005, A006, AND A007 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS
19. PROVIDE DENSIELD, DUROCK, OR EQUIVALENT WATER RESISTANT WALLBOARD AT TUB/SHOWER AND OTHER WET LOCATIONS.

1 Unit F - Enlarged Plan  
1/4" = 1'-0"

1A Unit F/A Enlarged Plan  
1/4" = 1'-0"

2 Unit F - Ceiling Plan  
1/4" = 1'-0"



**SYMBOLS & LEGEND:**

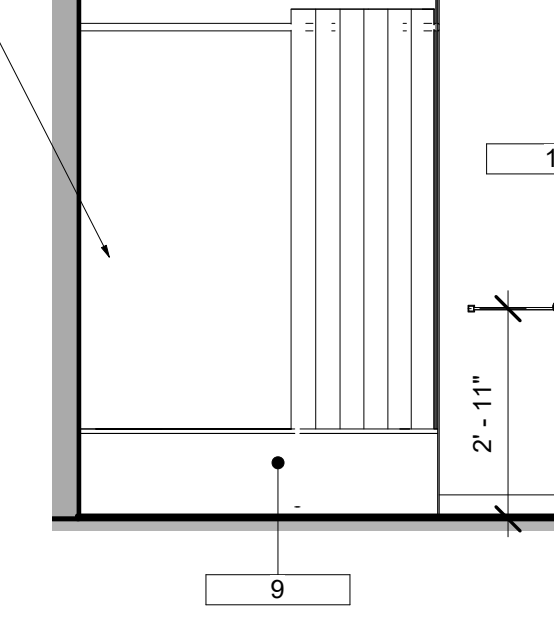
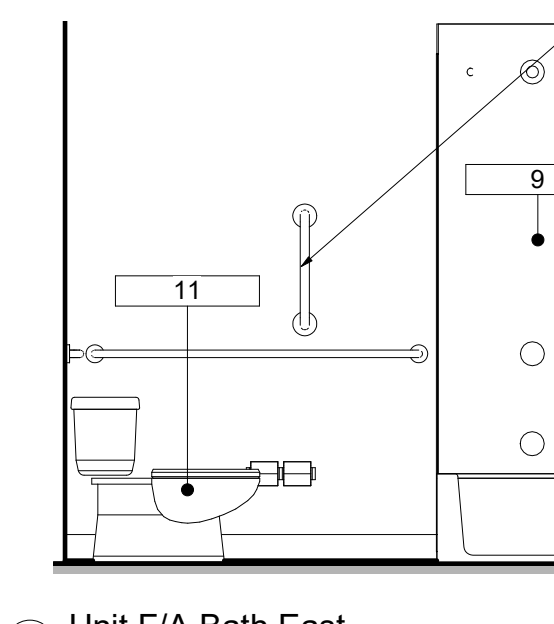
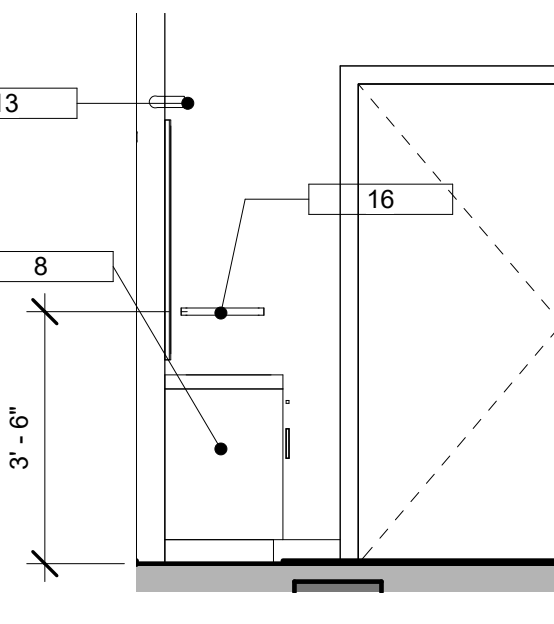
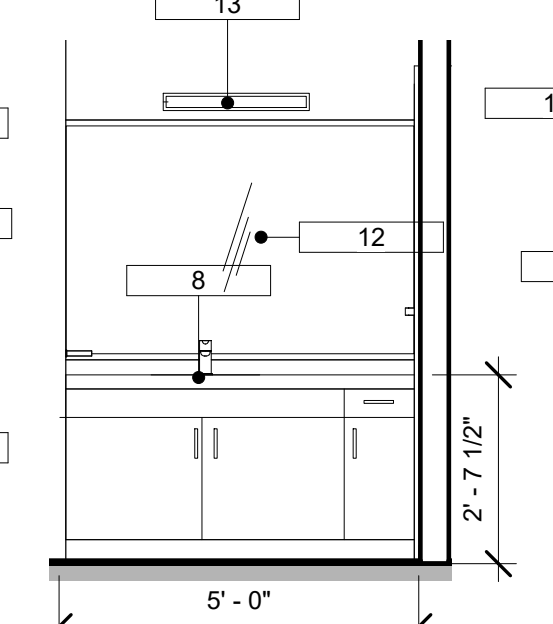
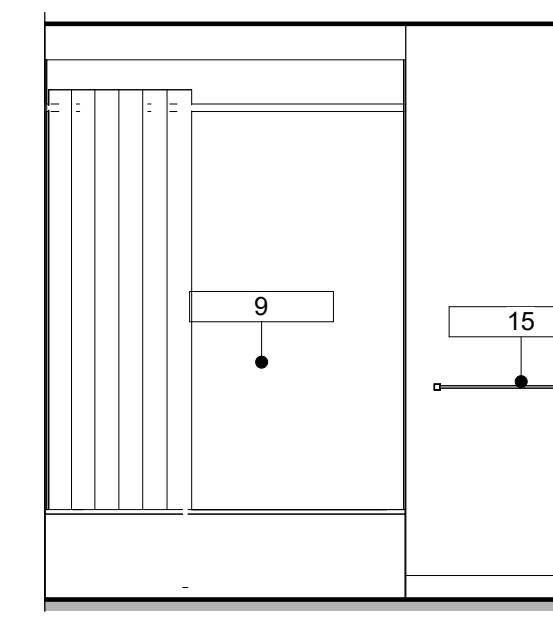
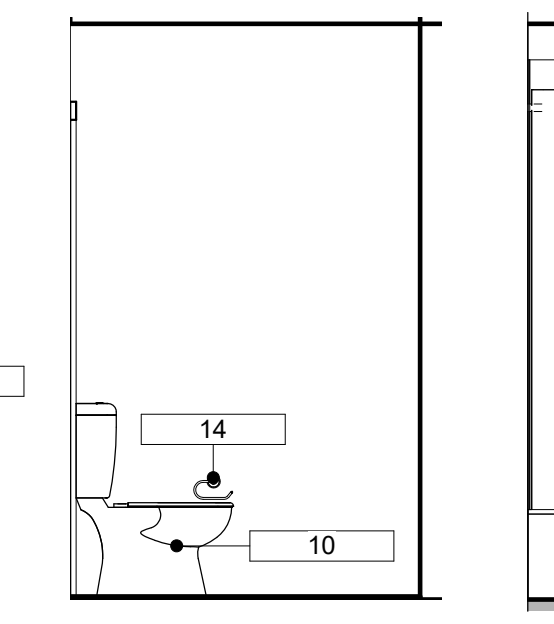
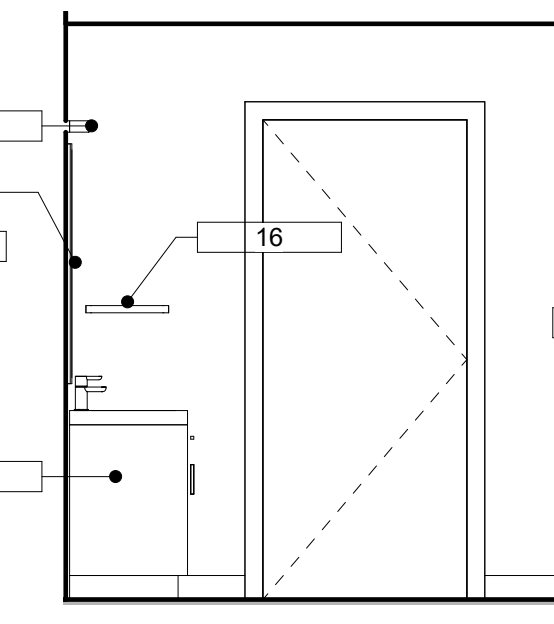
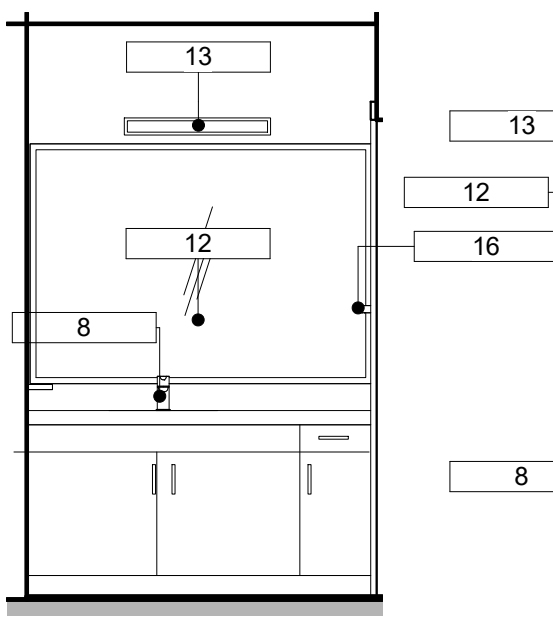
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| <ul style="list-style-type: none"> <li>[F] EXHAUST FAN: SEE SECTION G FOR ENERGY COMPLIANCE.</li> <li>SD 110V SMOKE DETECTOR W/ DISCONNECT SWITCH &amp; BATTERY BACKUP. INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2. SEE UNIT PLANS.</li> <li>SD/CO 110V W/ DISCONNECT SWITCH &amp; BATTERY BACKUP. INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTIONS 907.2.11.2 AND 907.2.9.3. SEE UNIT PLANS.</li> <li>[EXIT] ILLUMINATED EXIT SIGN AS NOTED AND PER IBC 1011.</li> <li>[E] EMERGENCY LIGHT PER IBC 1006.</li> <li>[1] INDICATES WALL TYPE: SEE WALL ASSEMBLY SCHEDULE</li> <li>[F.E.] FIRE EXTINGUISHERS PER IFC. SEE EGRESS PLANS IN SECTION G CLASS 3A TYP. U.N.O.</li> </ul> | <ul style="list-style-type: none"> <li>[1] INDICATES WINDOW TYPE: SEE WINDOW SCHEDULE IN SECTION A601</li> <li>[001] INDICATES DOOR TYPE: SEE DOOR SCHEDULE IN SECTION A601</li> <li>[#] INDICATES PARKING STALL COUNT.</li> <li>[ ] INDICATES 60" DIAMETER UNOBSTRUCTED FLOOR SPACE. SEE UNIT PLANS AND ENLARGED PLANS</li> <li>[ ] INDICATES 30" X 48" MANEUVERING SPACE. SEE UNIT PLANS AND ENLARGED PLANS.</li> <li>[ ] INDICATES CEILING OR SOFFIT 7'-6" AFF TYP. U.N.O. SOFFIT TO T.O. UPPER CABINETS @ KITCHENS TYP.</li> <li>[ ] PAINTED STRIPE AREA PER CITY REQUIREMENTS</li> </ul> |
|--|---|

3 Unit F - Kitchen North  
3/8" = 1'-0"

4 Unit F - Kitchen East  
3/8" = 1'-0"

9 Unit F/A Kitchen North  
3/8" = 1'-0"

10 Unit F/A Kitchen East  
3/8" = 1'-0"



5 Unit F - Bath West  
3/8" = 1'-0"

6 Unit F - Bath North  
3/8" = 1'-0"

7 Unit F - Bath East  
3/8" = 1'-0"


8 Unit F - Bath South  
3/8" = 1'-0"

11 Unit F/A Bath West  
3/8" = 1'-0"

12 Unit F/A Bath North  
3/8" = 1'-0"

13 Unit F/A Bath East  
3/8" = 1'-0"

14 Unit F/A Bath South  
3/8" = 1'-0"



**Dale Sweeney**  
ARCHITECT

5715 143rd Place SE  
Bellevue, WA 98006

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JOB NO. SHRLN-001  
DATE: 6/26/2017  
DWN. BY: Author  
CHKD BY: Checker  
RVS:

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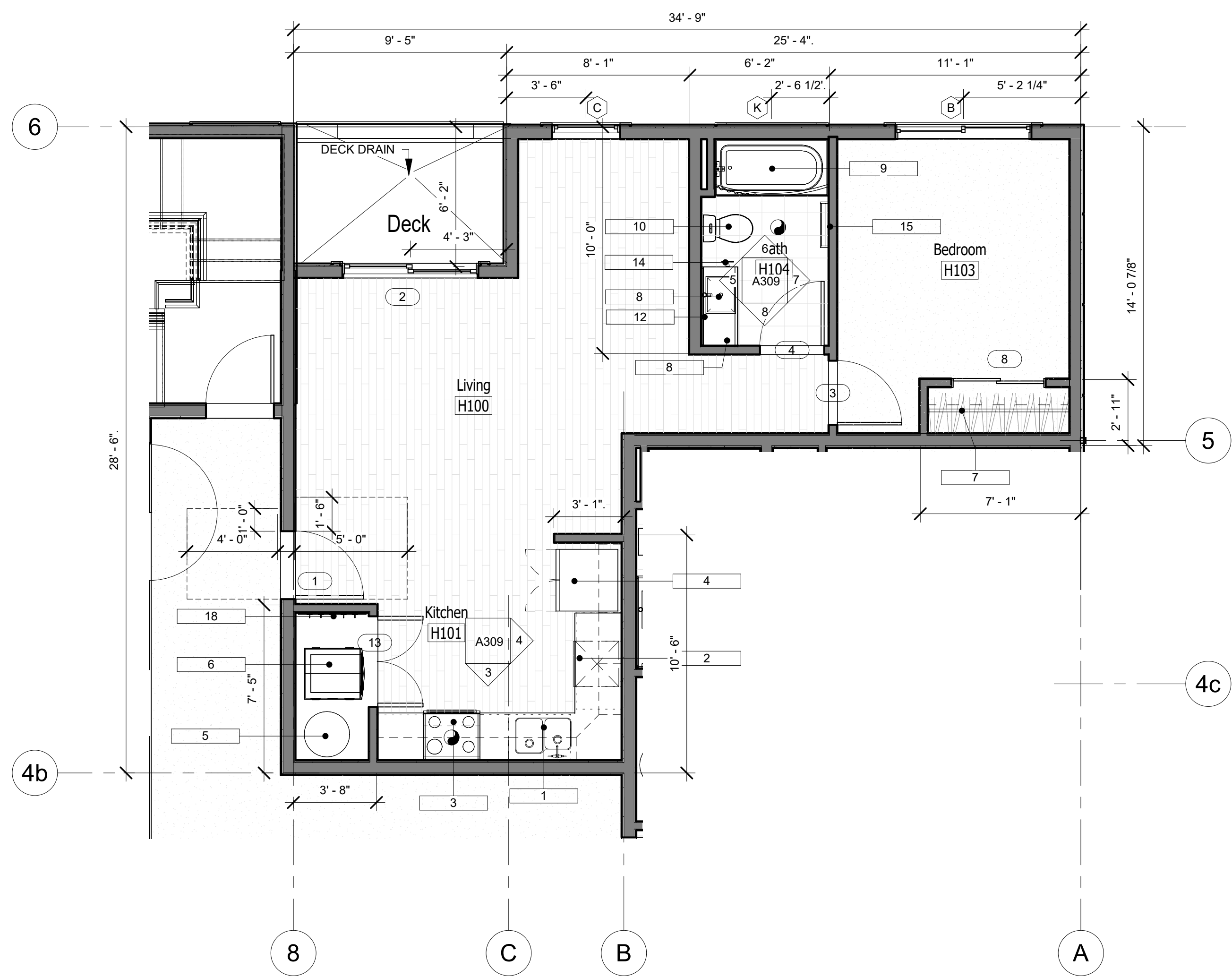
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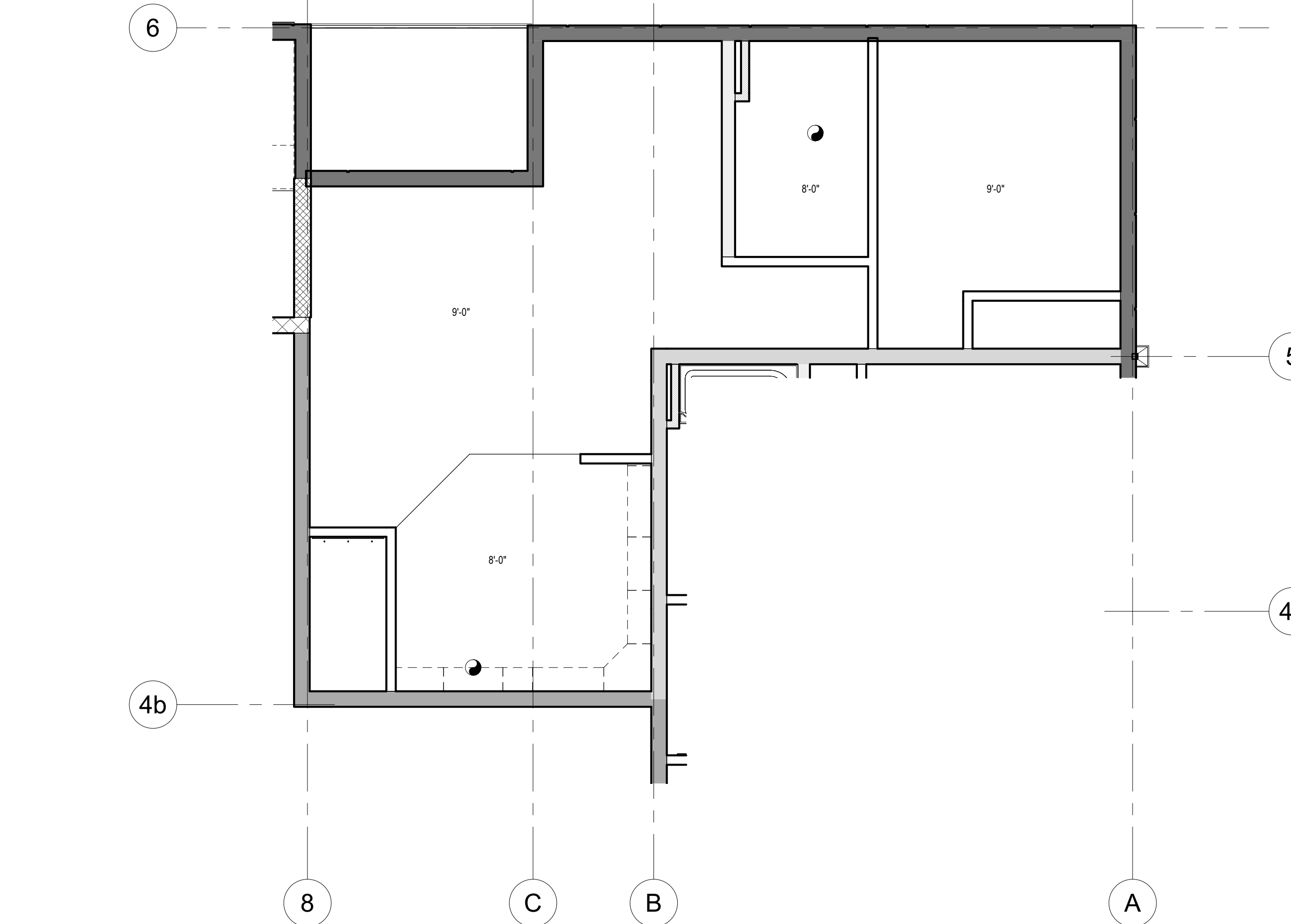
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**APTS. 2152**  
**TP Home LLC**  
**2152 N 185TH ST.**

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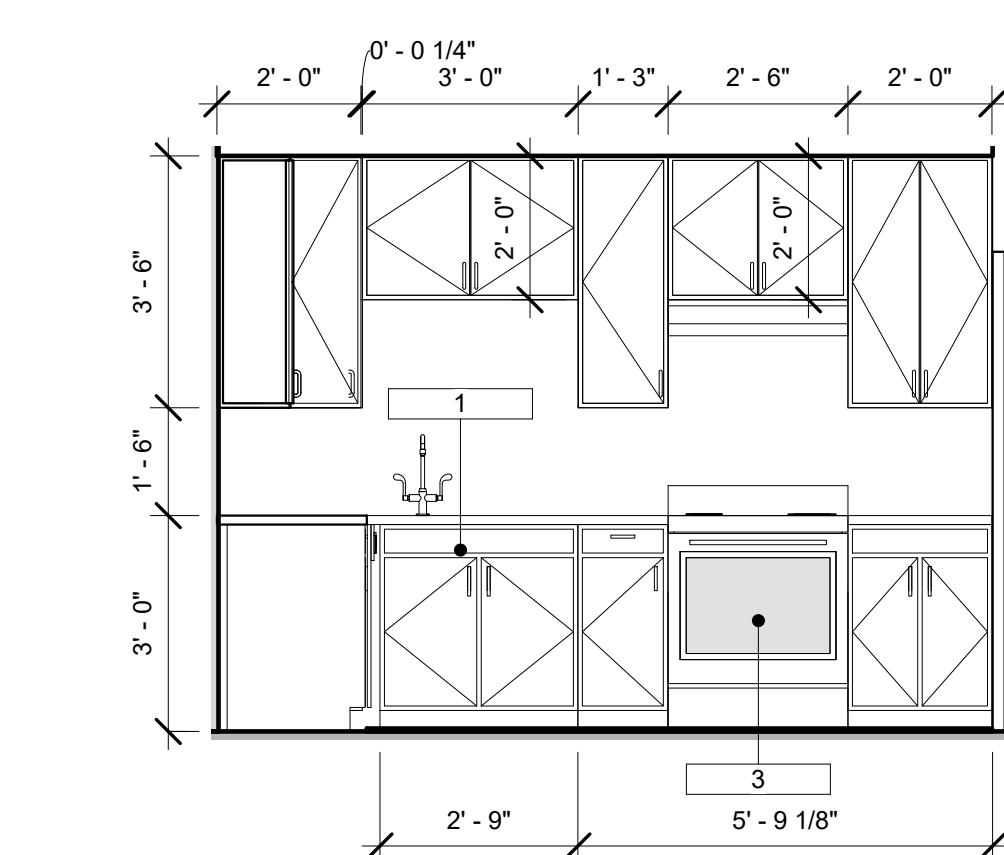
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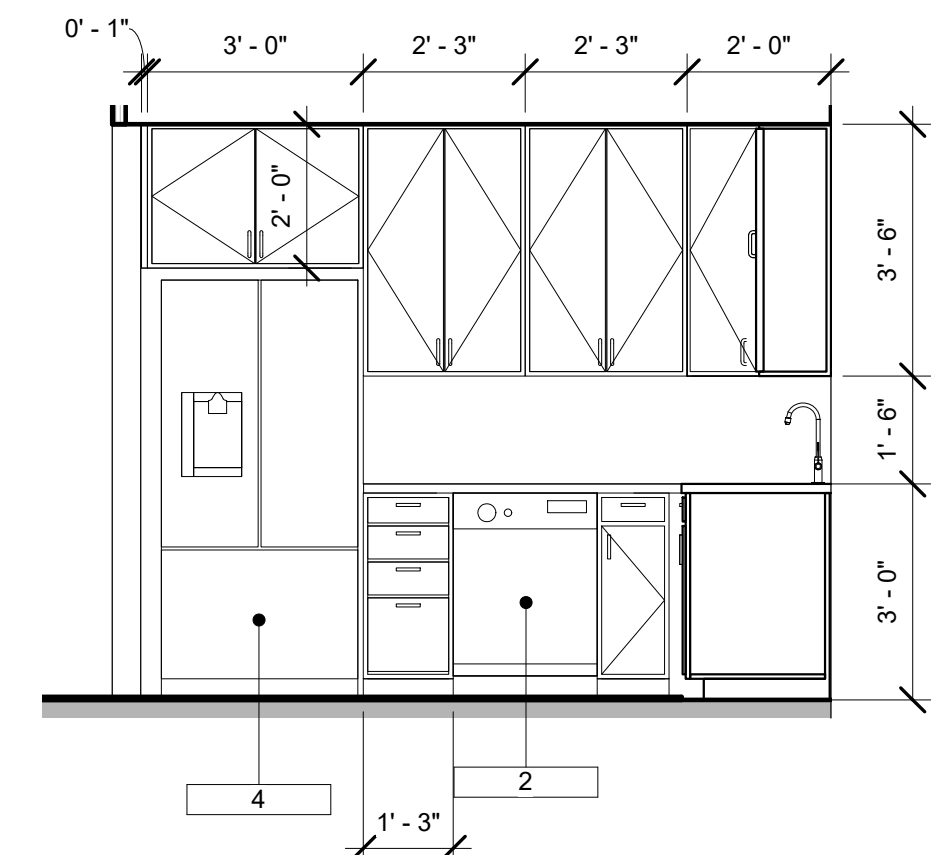
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1/4" = 1'-0"



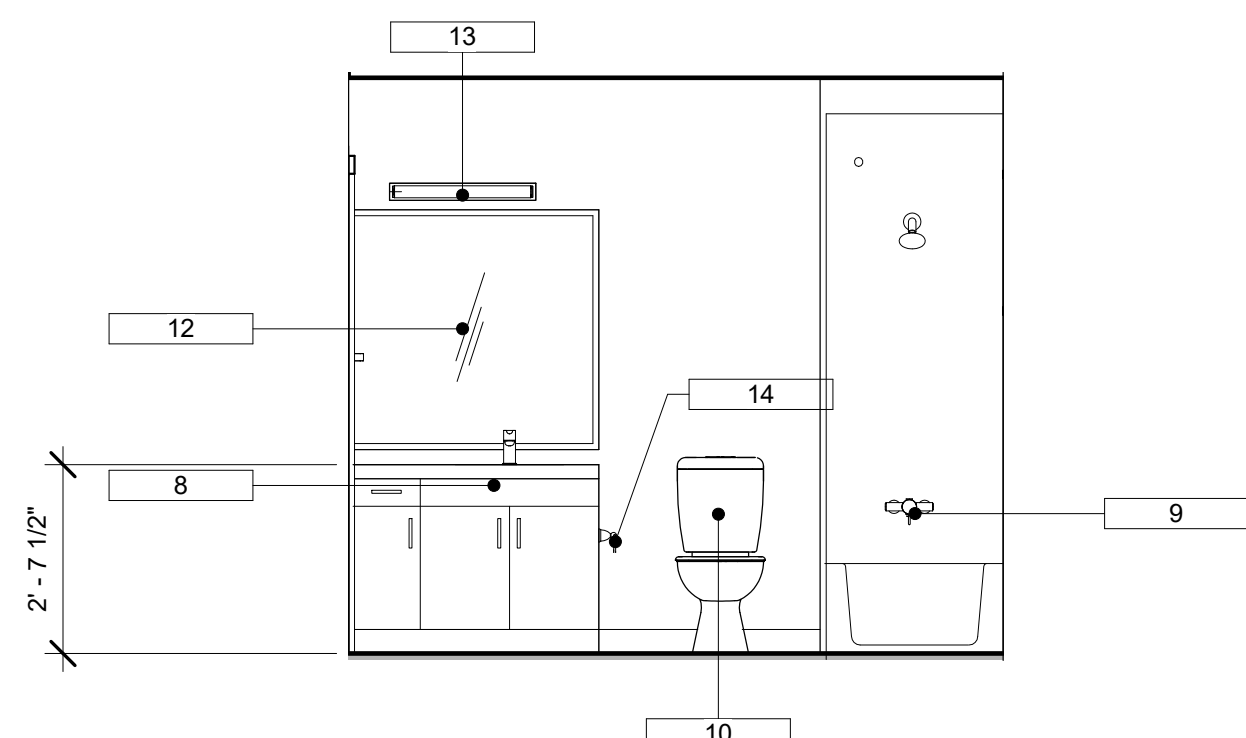
2 Unit H - Ceiling Plan  
1/4" = 1'-0"



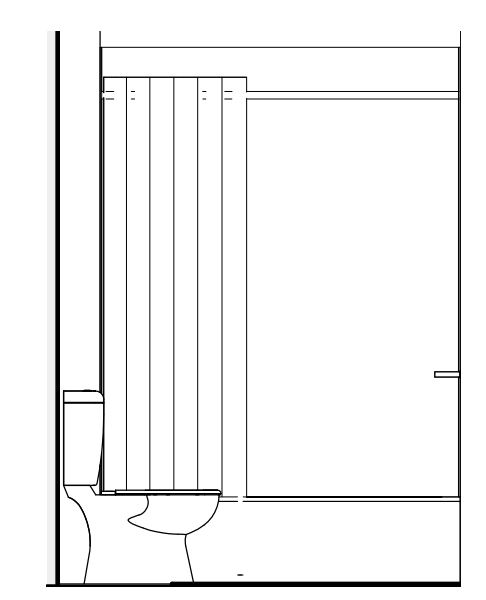
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3/8" = 1'-0"



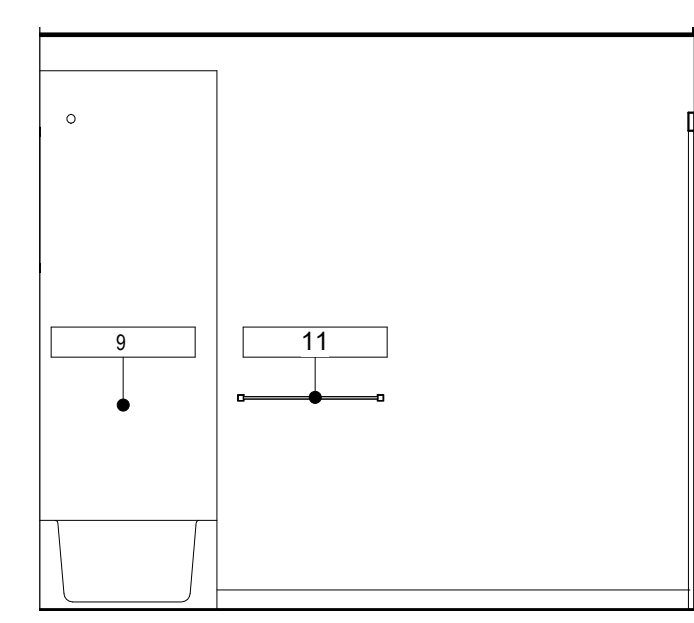
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3/8" = 1'-0"



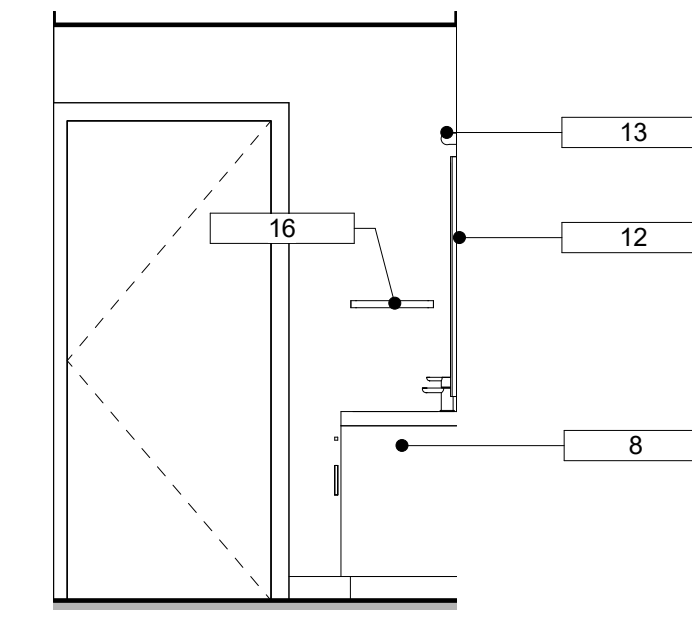
5 Unit H - Bath West  
3/8" = 1'-0"



6 Unit H - Bath North  
3/8" = 1'-0"



7 Unit H - Bath East  
3/8" = 1'-0"



8 Unit H - Bath South  
3/8" = 1'-0"

**PLAN KEY NOTES:**

- 1) KITCHEN SINK W/DISP.
- 2) DISHWASHER
- 3) RANGE WITH HOOD
- 4) REFRIGERATOR
- 5) WATER HEATER
- 6) STACK WASHER/DRYER
- 7) CLOSET ROD AND SHELF
- 8) VANITY
- 9) TUB/SHOWER w/STANDARD SHOWER HEAD AND VALVES
- 10) TOILET
- 11) TOILET WITH GRAB BARS - SEE SHEETS A005 & A006
- 12) MIRROR
- 13) VANITY LIGHT
- 14) TOILET PAPER HOLDER
- 15) 24" DOUBLE TOWEL BAR
- 16) 15" SINGLE TOWEL BAR
- 17) 5 FT. COAT HOOK BOARD w/ 9 MTL. HOOKS
- 18) 3FT COAT HOOK BOARD w/ 5 MTL. HOOKS
- 19) WASHER & DRYER SIDE-BY-SIDE - COMPLY WITH ANSI A117.1 ACCESSIBILITY - SEE SHEET A006
- 20) ANSI A117.1 COMPLIANT SHOWER HEAD WITH SLIDING BAR
- 21) ANSI COMPLIANT SIDE-BY-SIDE WASHER/DRYER

**SYMBOLS & LEGEND:**

- |         |  |       |   |
|---------|--|-------|---|
| [F]     | EXHAUST FAN: SEE SECTION G FOR ENERGY COMPLIANCE   | [1]   | INDICATES WINDOW TYPE: SEE WINDOW SCHEDULE IN SECTION A601                                      |
| [SD]    | 110V SMOKE DETECTOR W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTION 907.2.11.2. SEE UNIT PLANS.  | [001] | INDICATES DOOR TYPE: SEE DOOR SCHEDULE IN SECTION A601  |
| [SD/CO] | SD/CO DENOTES COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR. 110V W/ DISCONNECTION SWITCH & BATTERY BACKUP, INTERCONNECT WITHIN INDIVIDUAL DWELLING UNITS PER IBC SECTIONS 907.2.11.2 AND 907.2.9.3. SEE UNIT PLANS. | [#]   | INDICATES PARKING STALL COUNT.  |
| [EXIT]  | ILLUMINATED EXIT SIGN AS NOTED AND PER IBC 1011.   | [○]   | INDICATES 60" DIAMETER UNOBSTRUCTED FLOOR SPACE. SEE UNIT PLANS AND ENLARGED PLANS              |
| [E]     | EMERGENCY LIGHT PER IBC 1006.  | [□]   | INDICATES 30" X 48" MANEUVERING SPACE. SEE UNIT PLANS AND ENLARGED PLANS.                       |
| [1]     | INDICATES WALL TYPE: SEE WALL ASSEMBLY SCHEDULE  | [▨]   | INDICATES CEILING OR SOFFIT 7'-6" AFF TYP. U.N.O. SOFFIT TO T.O. UPPER CABINETS @ KITCHENS TYP. |
| [F.E.]  | FIRE EXTINGUISHERS PER IFC. SEE EGRESS PLANS IN SECTION G CLASS 3A TYP. U.N.O.   | [▨]   | PAINTED STRIPE AREA PER CITY REQUIREMENTS   |

**PLAN NOTES**

1. SEE INDIVIDUAL UNIT FLOOR PLANS IN SECTION A3 FOR DETAILED INFORMATION. (DIMENSIONS, CONSTRUCTION, DOOR/WINDOW, ETC.)
2. SEE ENLARGED STAIR/ELEVATOR SHEETS A801 & A802 FOR DETAILED INFORMATION.
3. PROPERTY LINES SHOWN FOR GENERAL INFORMATION ONLY. SEE SITE PLAN IN SECTION A1 FOR PLACEMENT OF BUILDING.
4. SEE SITE PLAN IN SECTION A100 FOR DETAILED INFORMATION OR SITE FEATURES.
5. THE BUILDING IS TO BE FIRE SPRINKLERED THROUGHOUT.
6. FIRE EXTINGUISHERS ARE TO BE LOCATED NO MORE THAN 75 FT OF TRAVEL TO THE NEAREST EXTINGUISHER. EXTINGUISHERS TO COMPLY WITH IFC 2009 906.1, BMC 20.08.22 AND NFPA 10.
7. FIRE EXTINGUISHER BOXES TO BE SURFACE MOUNT AT GARAGE COLUMN/CONCRETE WALLS. ELSE SEMI-RECESSED WITH 4" MAX. PROTRUSION. BASE OF CABINET TO BE 27" MIN. A.F.F.
8. AUDIBLE AND VISIBLE ALARMS  
VISIBLE AND AUDIBLE NOTIFICATION DEVICES, SMOKE ALARMS AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEMS. AUDIBLE ALARMS (SECTION 907) MUST BE PROVIDED TO SERVE ALL OCCUPIABLE AREAS WHERE A FIRE ALARM SYSTEM IS REQUIRED BY THE CODE.  
VISIBLE ALARMS MUST BE PROVIDED IN AREAS WHERE THE AMBIENT NOISE LEVEL IS SUCH THAT AUDIBLE ALARMS MAY NOT BE HEARD (SECTION 907.5.2.1.2).
9. VISIBLE ALARMS ARE REQUIRED IN ALL PUBLIC-USE AND ALL COMMON-USE AREAS TO ALERT PEOPLE WITH HEARING IMPAIRMENTS (SECTION 907.5.2.3.1)
10. GROUP R-2 RESIDENTIAL BUILDINGS (SECTION 907.5.2.3.3). WHEN A BUILDING IS REQUIRED TO HAVE A GENERAL EVACUATION ALARM, PUBLIC AREAS ROOMS ARE REQUIRED TO HAVE VISIBLE AND AUDIBLE ALARMS. THE GENERAL ALARM NOTIFICATION MUST BE AUDIBLE WITHIN THE RESIDENTIAL UNITS. VISIBLE ALARM NOTIFICATION APPLIANCES ARE NOT REQUIRED WITHIN EACH UNIT, BUT VISIBLE NOTIFICATION CAN BE EASILY MADE AVAILABLE WHEN REQUESTED FOR PERSONS WITH HEARING IMPAIRMENTS, VIA THE SMOKE ALARMS WITHIN THEIR UNITS.
11. SINGLE- OR MULTIPLE-STATION SMOKE ALARMS ARE REQUIRED WITHIN EACH SLEEPING ROOM, IMMEDIATELY OUTSIDE OF ALL SLEEPING ROOMS, AND ON EACH FLOOR LEVEL IN A SUITE OR DWELLING UNIT (SECTION 907.2.11.2).
12. WHEN MULTIPLE SMOKE ALARMS ARE INSTALLED IN A UNIT, THEY MUST BE INTERCONNECTED (SECTION 907.2.11.5). IN GROUP R-2 FACILITIES, WHEN A BUILDING EVACUATION ALARM SYSTEM IS INSTALLED, A WIRE FROM THE GENERAL ALARM SYSTEM MUST BE PROVIDED TO ONE OF THE SMOKE DETECTORS IN THE UNIT (SECTION 907.5.2.3.3 AND ICC/ANSI A117.1 STANDARD ON ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, SECTION 1006.4).
13. WHEN A PERSON WITH A HEARING IMPAIRMENT WANTS VISIBLE NOTIFICATION IN THEIR APARTMENT, IT IS EASY TO SWITCH OUT THE TYPICAL AUDIBLE SMOKE DETECTORS FOR SMOKE DETECTORS THAT HAVE VISIBLE AND AUDIBLE ALARMS (NOTE: ALARM DEVICES MUST BE LISTED FOR THE PURPOSE THEY ARE TO SERVE). THROUGH THE EXISTING WIRING, THE GENERAL BUILDING EVACUATION ALARM WILL BE CONNECTED TO THE SMOKE DETECTORS.
14. DIMENSIONS ARE TO THE FACE OF STUD (F.O.S.), FACE OF CONCRETE (F.O.C.), FACE OF POST (F.O.P.) OR CENTERLINE OF PARTY WALLS, CENTERLINE OF DOORS, AND CENTERLINE OF WINDOWS U.N.O. VERIFY ALL DIMENSIONS.
15. AT TUBS AND SHOWERS, EXTEND TYPE 'X' GWB TO BASE PLATE, TO ACHIEVE FIRE RATING USE WR GWB OVER SUCH TYPE 'X' LAYER AS REQUIRED AT PARTY AND CORRIDOR WALLS.
16. ALL 2'-10" DOORS SHOWN IN TYPE 'A' UNITS SHALL MAINTAIN 2'-8" CLEAR MINIMUM OPENING WHEN DOOR IS OPEN IN THE 90 DEGREE POSITION PER ICC/ANSI A117.1-2009, SECTION 404.2.2.
17. REINFORCEMENT SHALL BE PROVIDED FOR THE FUTURE INSTALLATION OF GRAB BARS AND SHOWER SEATS AT WATER CLOSETS, BATHTUBS, AND SHOWER COMPARTMENTS PER ICC/ANSI A117.1-2009 SEC. 1003.11.4 AND 1004.11.2
18. SEE SECTION SHEETS A005, A006, AND A007 FOR BARRIER-FREE REQUIREMENTS FOR COUNTERTOPS, WORKSURFACES, BATHROOMS ETC. TYPE 'A' DWELLING UNITS
19. PROVIDE DENSIELD, DUROCK, OR EQUIVALENT WATER RESISTANT WALLBOARD AT TUB/SHOWER AND OTHER WET LOCATIONS.

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**UNIT PLAN H**

**A309**

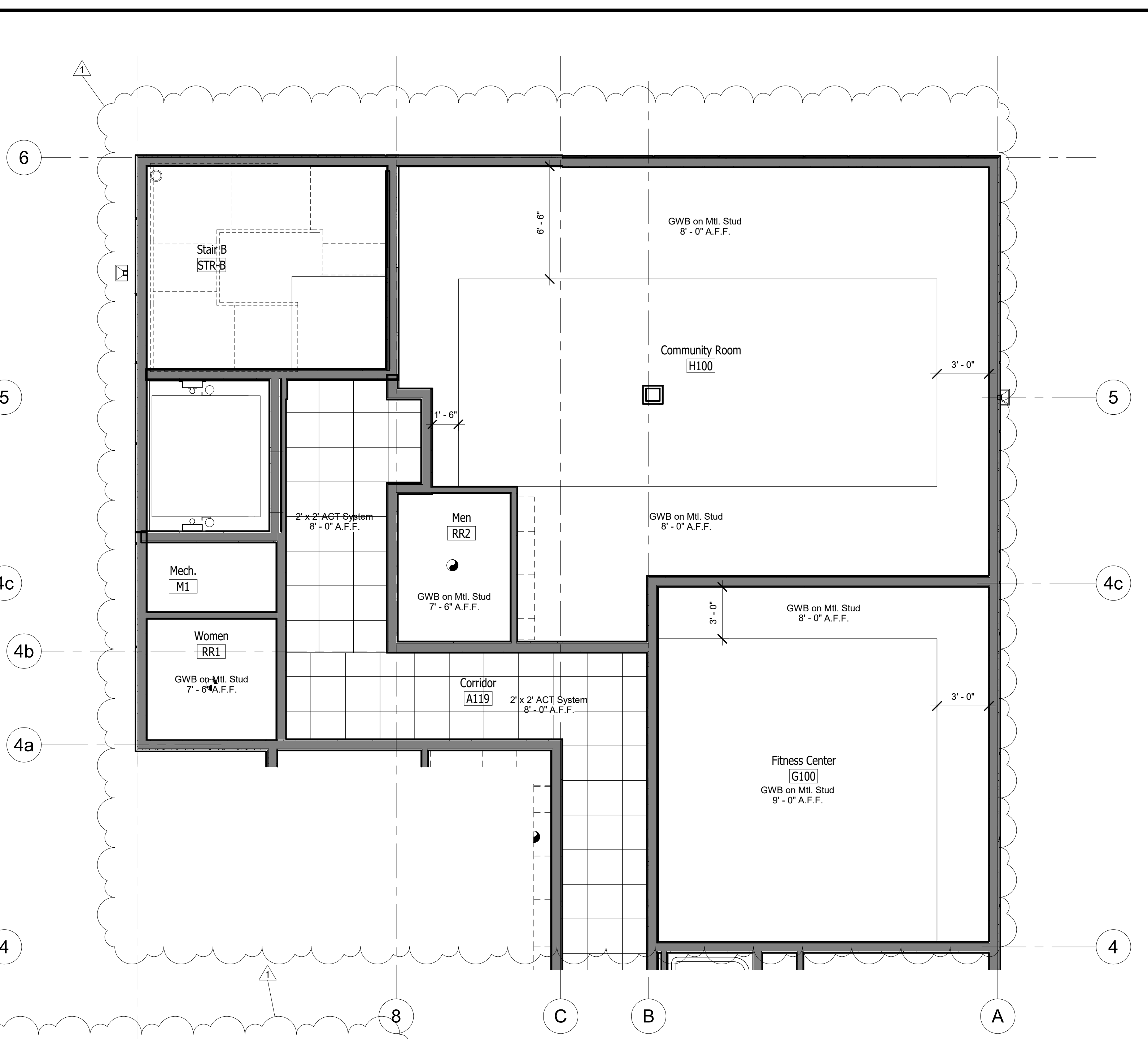
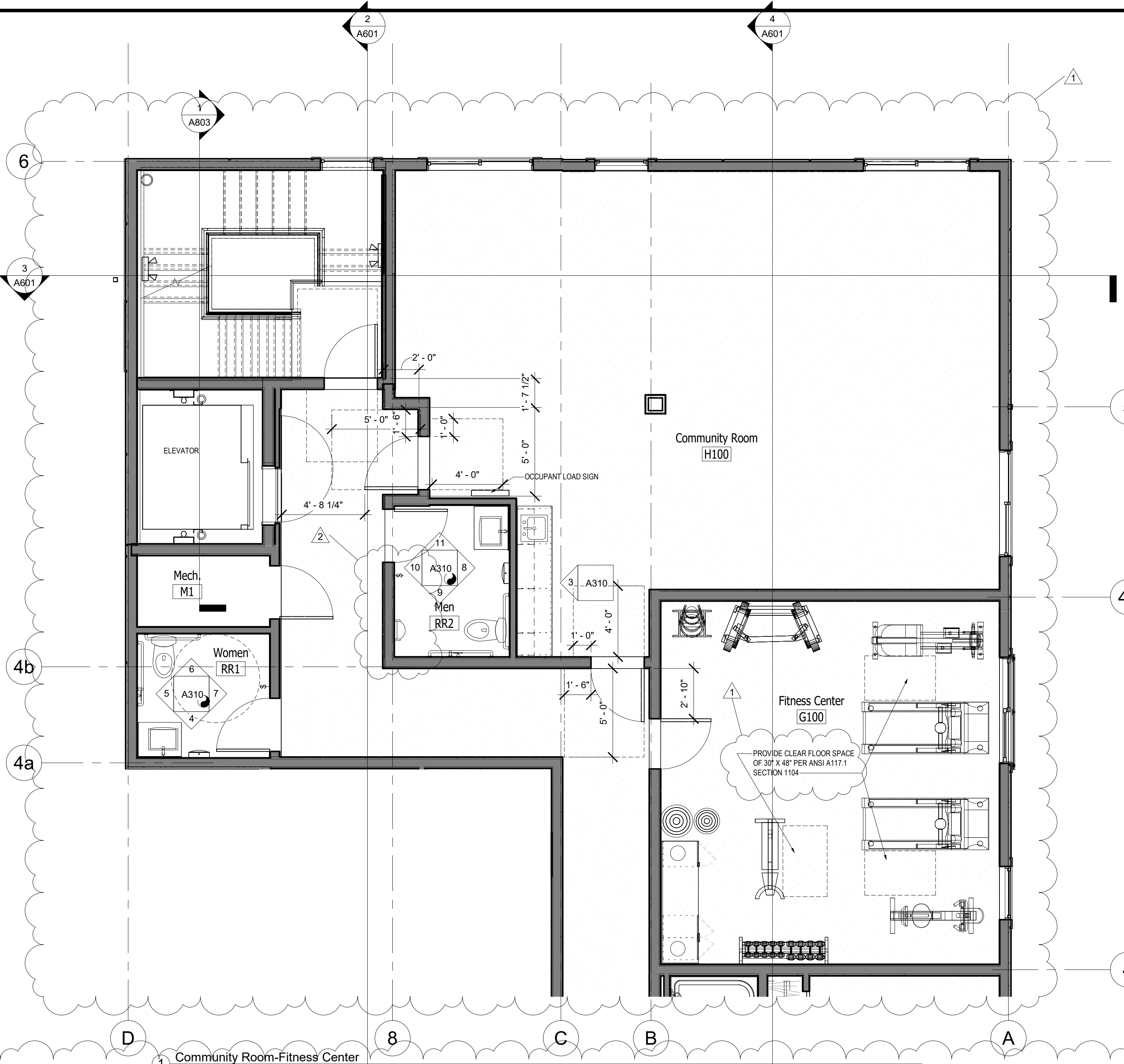
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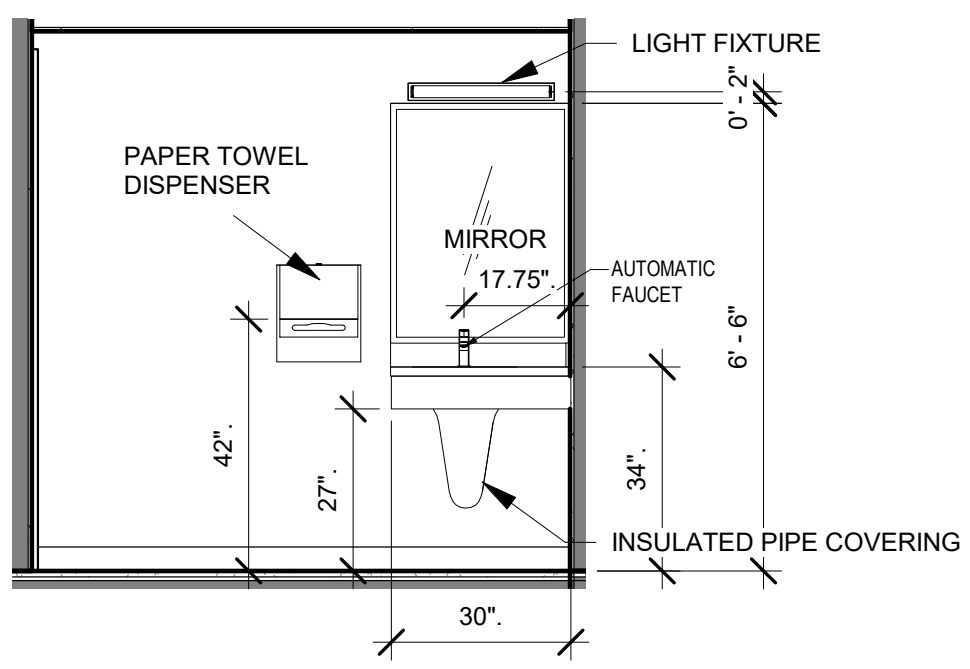
**Dale Sweeney**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLN-001  
DATE: 6/26/2017  
DWN BY: Author  
CHKD BY: Checker  
RVS:

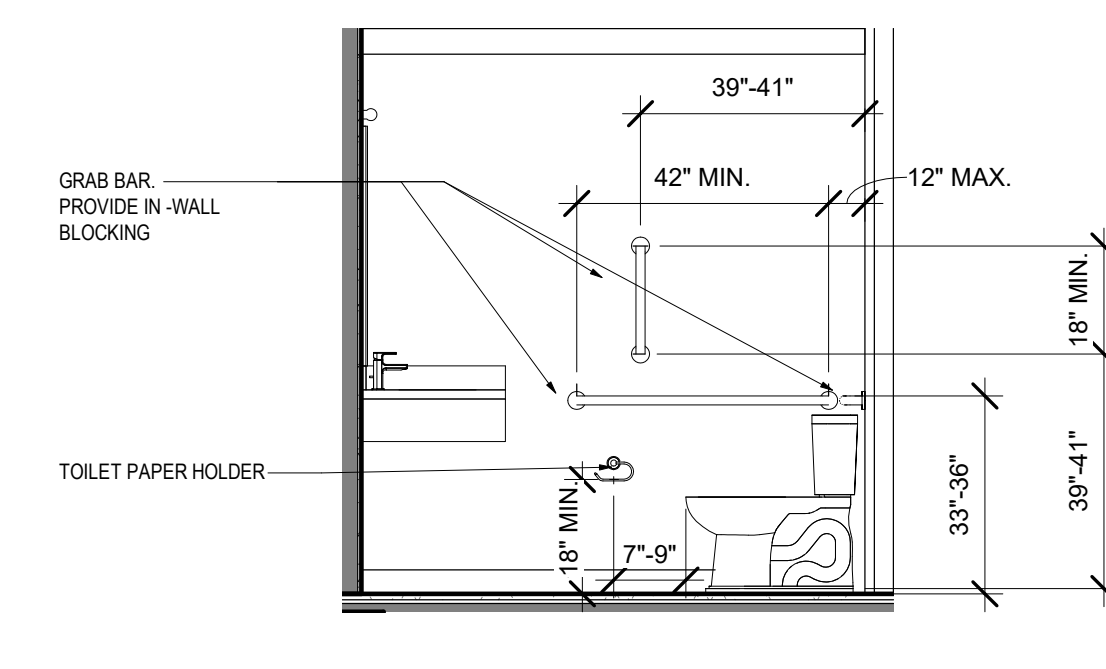
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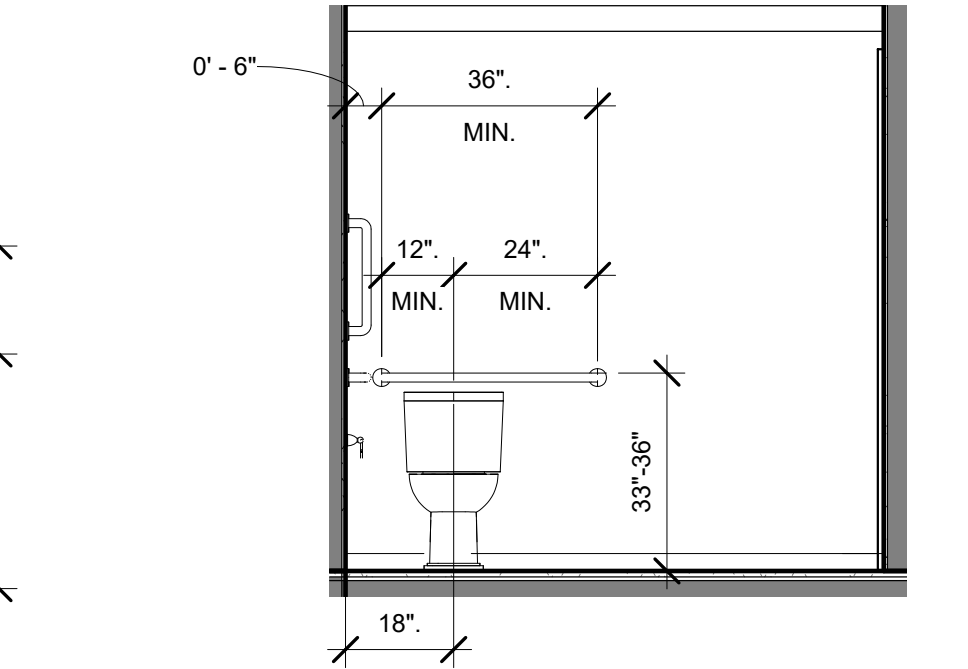
1 Community Room-Fitness Center  
1/4" = 1'-0"



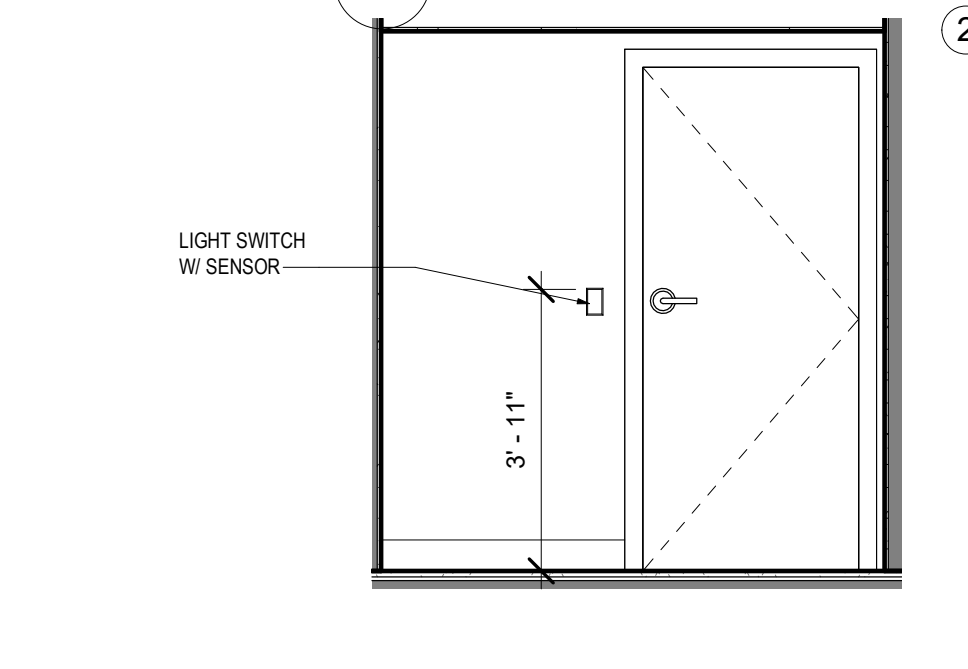
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3/8" = 1'-0"



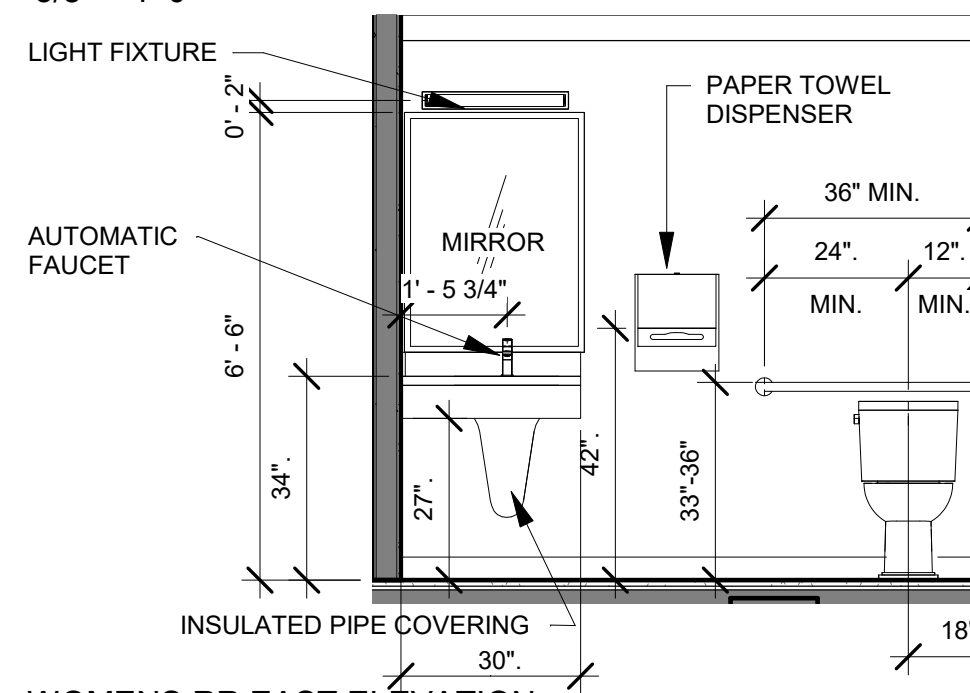
5 MENS RR WEST ELEVATION  
3/8" = 1'-0"



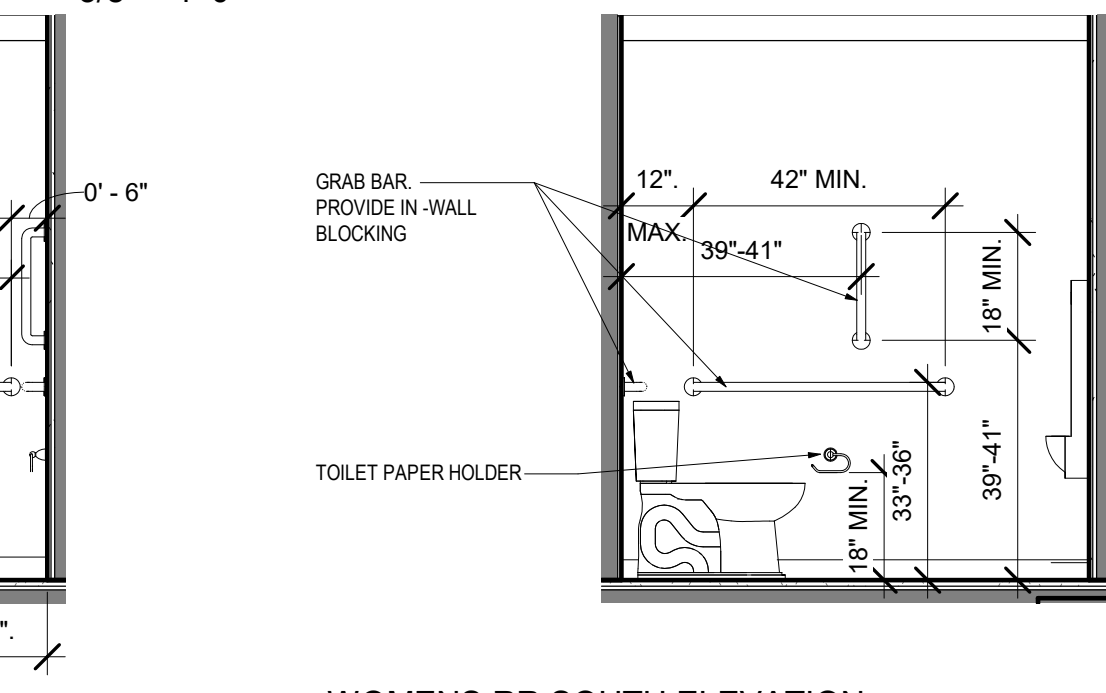
6 MENS RR NORTH ELEVATION  
3/8" = 1'-0"



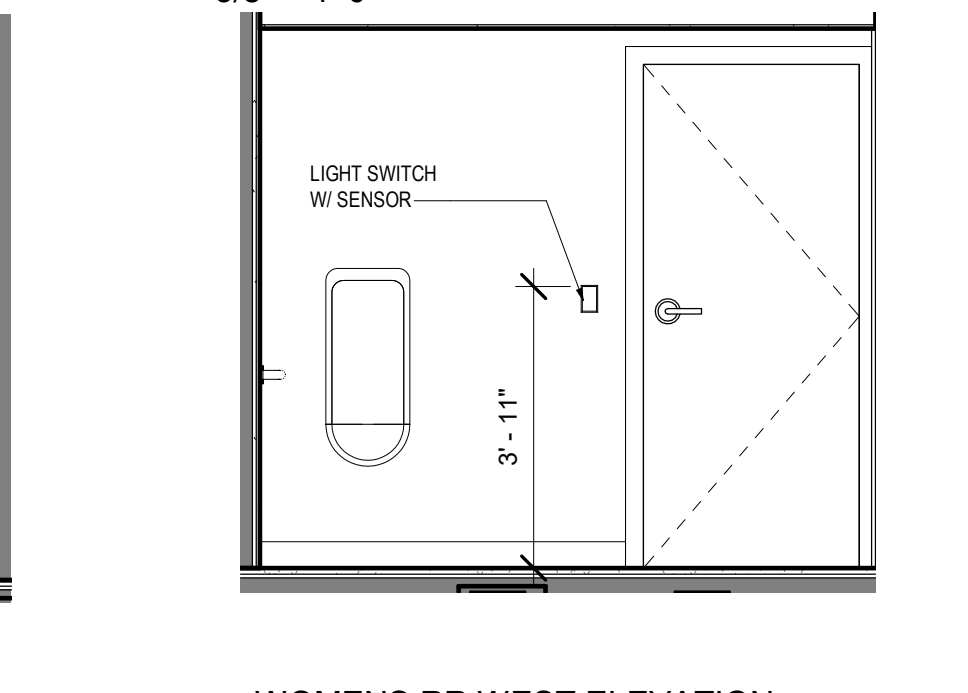
7 MENS RR EAST ELEVATION  
3/8" = 1'-0"



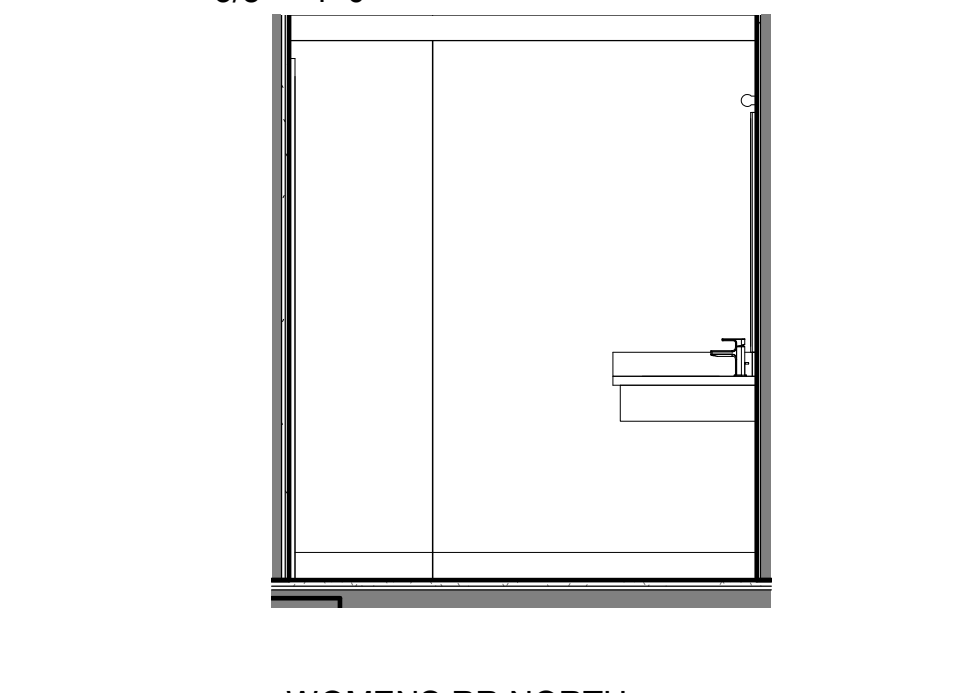
8 WOMENS RR EAST ELEVATION  
3/8" = 1'-0"



9 WOMENS RR SOUTH ELEVATION  
3/8" = 1'-0"

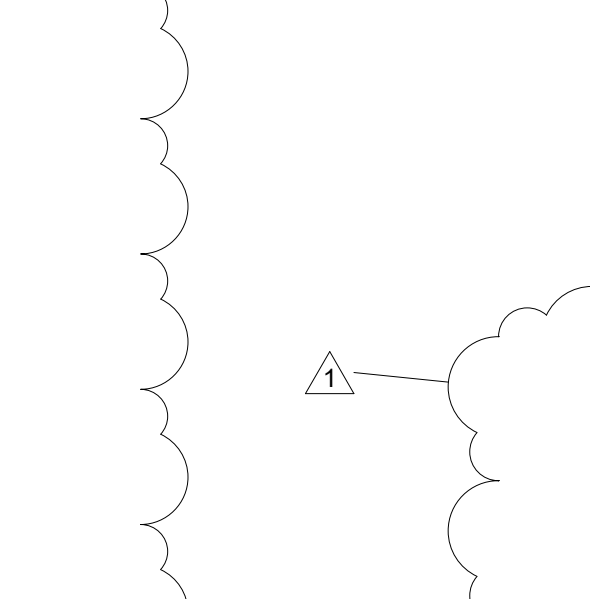


10 WOMENS RR WEST ELEVATION  
3/8" = 1'-0"

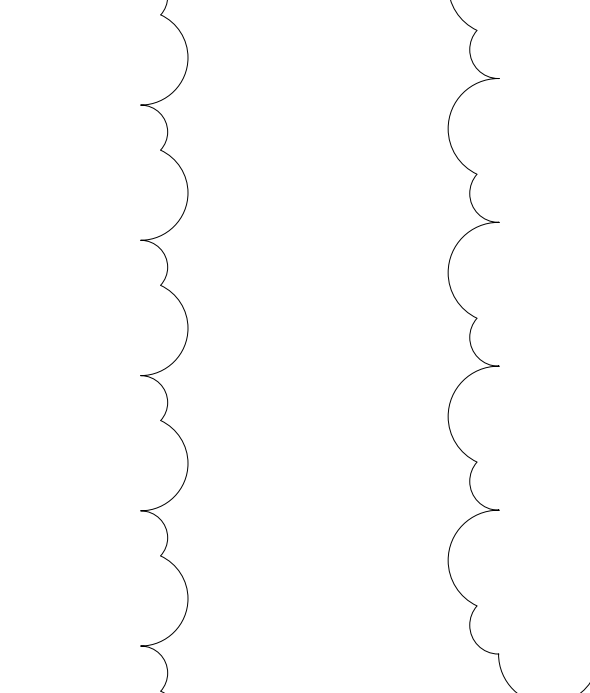


11 WOMENS RR NORTH  
3/8" = 1'-0"

2 Community/Fitness - Ceiling Plan  
1/4" = 1'-0"



7 MENS RR EAST ELEVATION  
3/8" = 1'-0"



3 COMMUNITY ROOM KITCHEN  
ELEVATION  
3/8" = 1'-0"

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 ARCHITECT  
 5715 143rd Place SE  
 Bellevue, WA 98006

JOB NO. SHRLM-001  
 DATE: 6/26/2017  
 DWN. BY: Author  
 CHKD BY: Checker  
 RNSD:

REVISIONS  
 NO. DATE Revision Description  
 1 9/8/19 City Comments  
 2 4/28/20 City Comments

**TP HOME 22 UNIT  
 APTS. 2152  
 TP Home LLC  
 2152 N 185TH ST.**

**COMMUNITY ROOM -  
 FITNESS ROOM**

PRINT DATE:  
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**SHEET NO.  
 A310**

**ELEVATION KEY NOTES:**  
BASIS OF COLORS - SHERWIN WILLIAMS

- A) HARDIE REVEAL JOINT PANEL SIDING - SW7008 ALABASTER
- B) HARDIE REVEAL JOINT PANEL SIDING - SW7023 REQUISITE GREY
- C) STONE VENEER - CORONADO STONE COLOSSEUM TRAVERTINE BLACK FOREST
- D) 1" X 11.25" S4 SMOOTH HARDIE TRIM BOARD - SW7645 THUNDER GRAY
- E) 7.5" X 2.5" SMOOTH HARDIE BATTEN BOARD - SW7645 THUNDER GRAY
- F) HARDIE CORNER TRIM - MATCH ADJACENT PANEL SIDING COLOR
- G) SCUPPER (WITH OVERFLOW) AND DOWNSPOUT - MATCH ADJACENT PANEL SIDING COLOR - SEE DETAIL 3/A904
- H) ALUM./CABLE RAILING 42" ABOVE FIN. FLOOR - 4" BALL SHALL NOT BE ABLE TO PASS THROUGH
- J) FIBER-CEMENT PANEL SIDING - HARDIE REVEAL-JOINT - SW7645 THUNDER GRAY
- K) ALUM. COPING
- L) JOINT
- M) 1" X 5.5" SMOOTH HARDIE TRIM BOARD WINDOW TRIM - SW7645 THUNDER GRAY

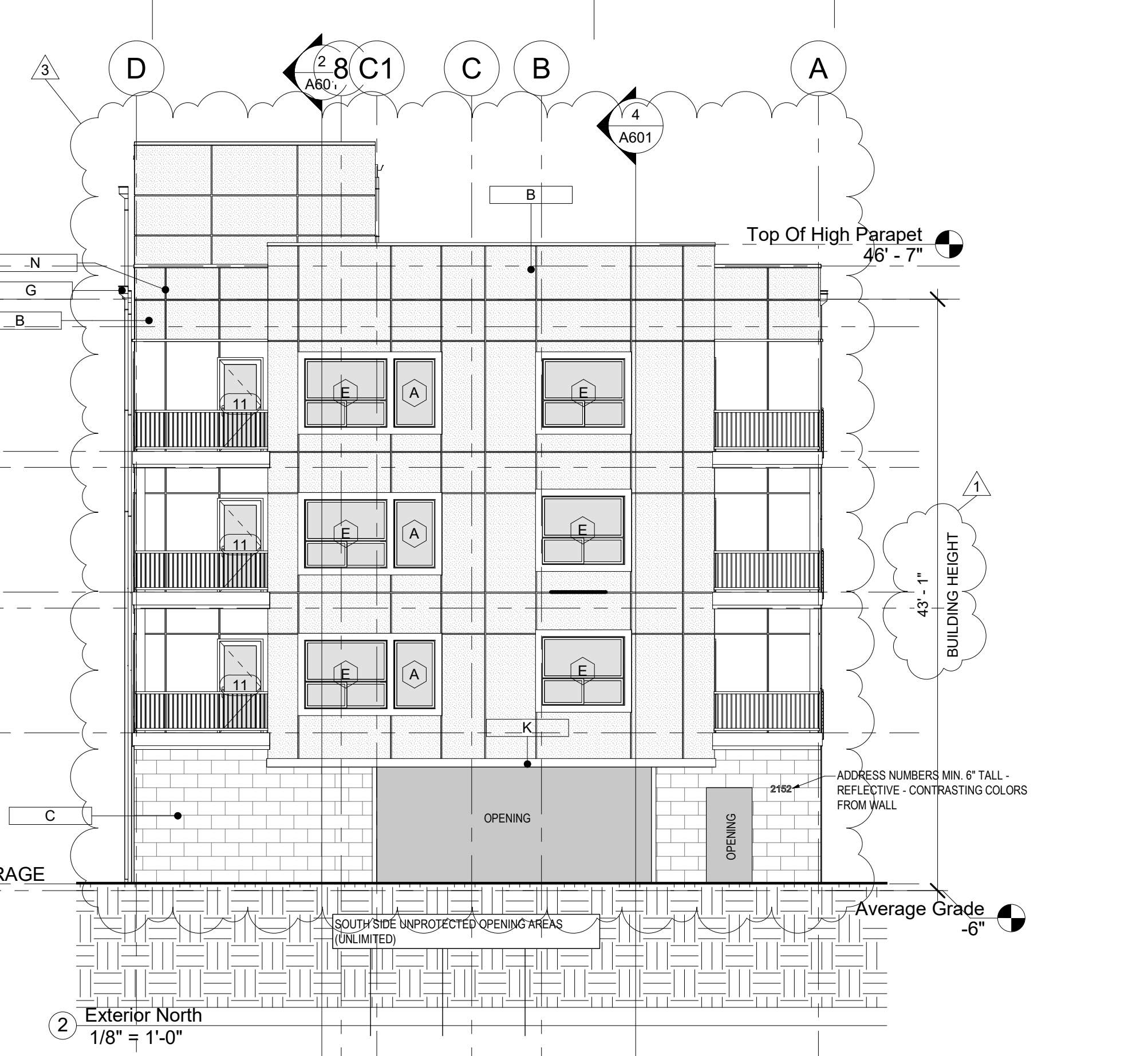
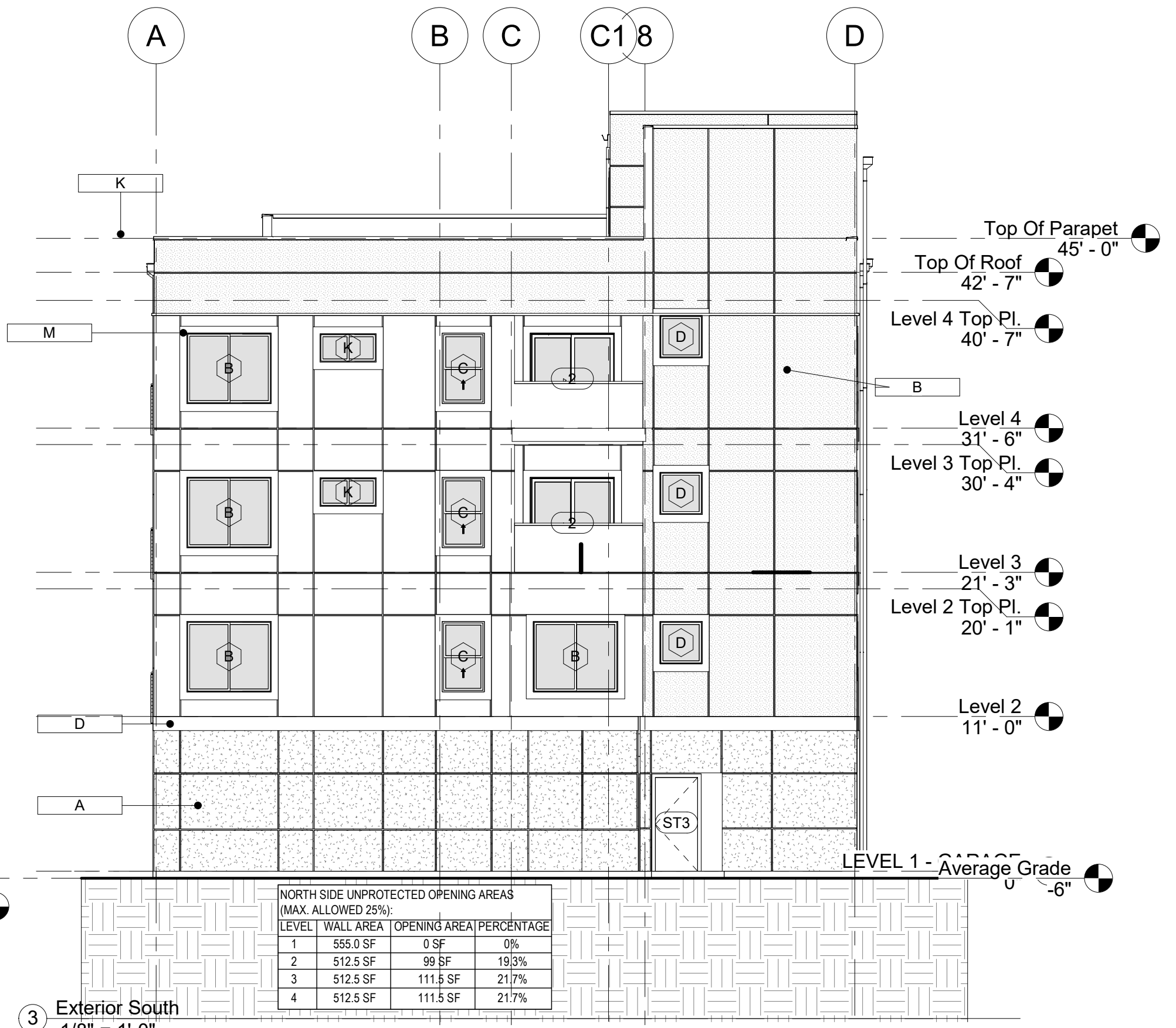
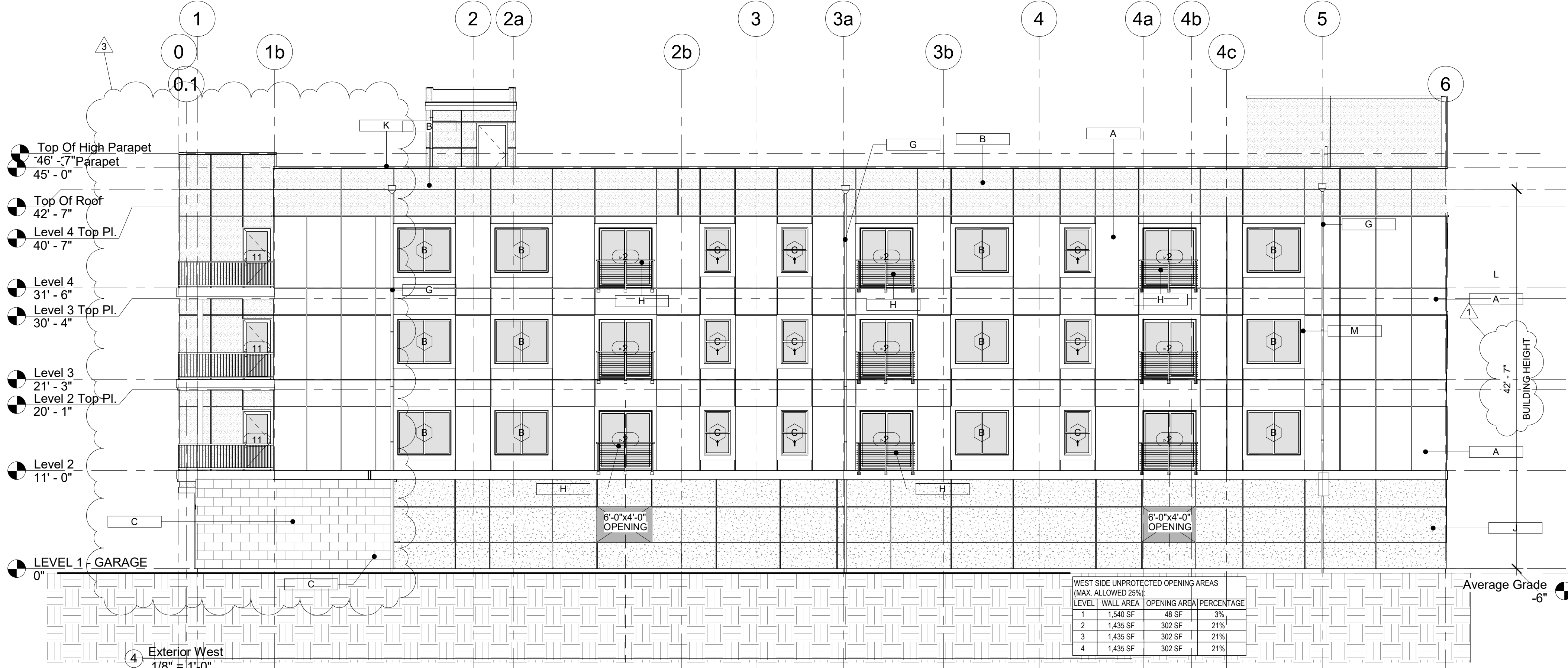


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REVISIONS

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1	9/8/19	City Comments
3	1/15/21	City Comments

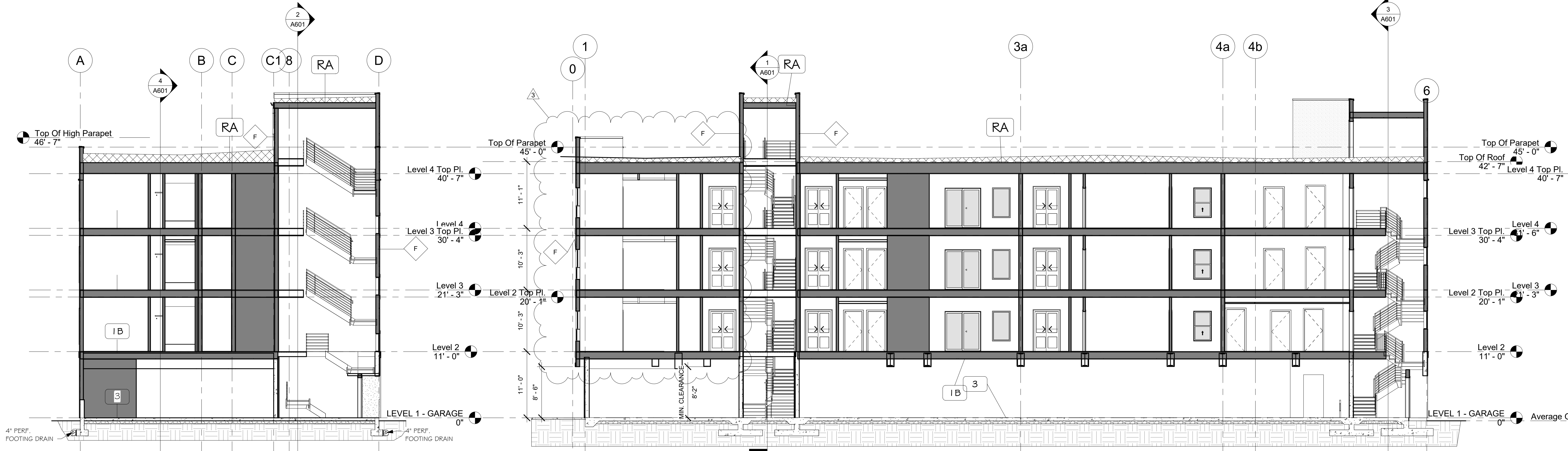


**TP HOME 22 UNIT**  
**APTS. 2152**  
TP Home LLC  
2152 N 185TH ST.

**ELEVATIONS**

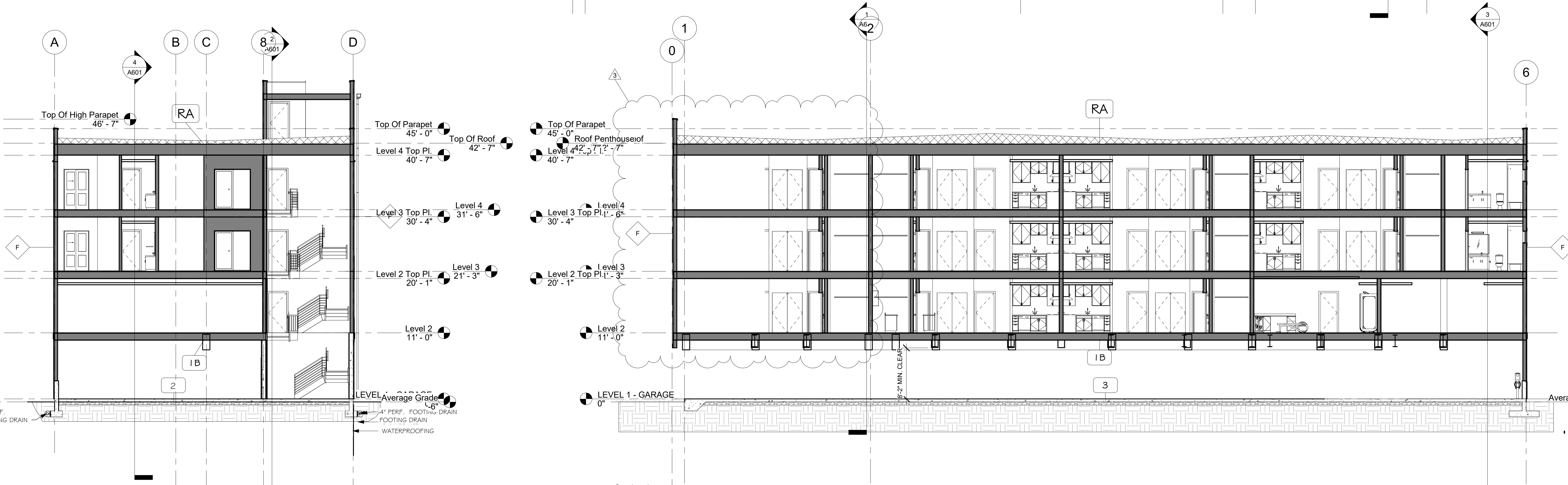
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**SHEET NO.**  
**A501**



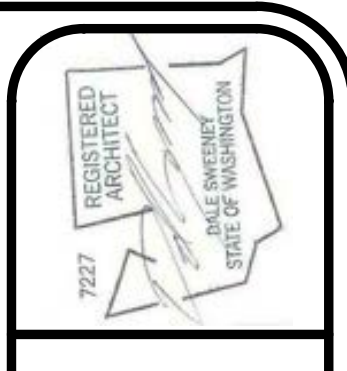
1 Section 1  
1/8" = 1'-0"

2 Section 2  
1/8" = 1'-0"



3 Section 3  
1/8" = 1'-0"

4 Section 4  
1/8" = 1'-0"



**Dale Sweeney**  
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5715 143rd Place SE  
Bellevue, WA 98006

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DWN. BY: Author  
CHKD BY: Checker  
RNSD:

NO.	DATE	REVISIONS
3	1/19/21	Revision Description City Comments

**TP HOME 22 UNIT  
APTS. 2152**  
TP Home LLC  
2152 N 185TH ST.

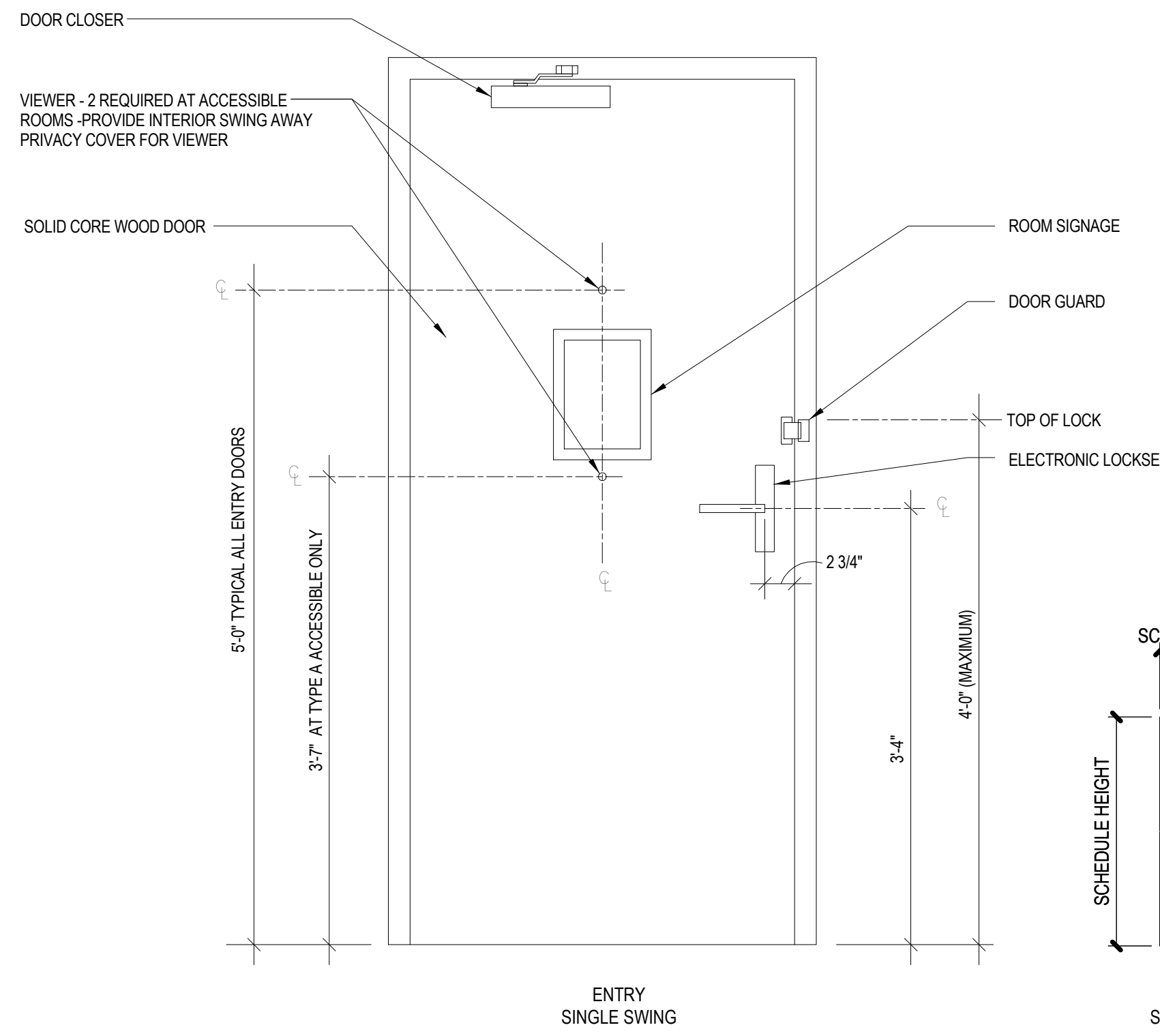
**BUILDING SECTIONS**

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SHEET NO.  
**A601**

**TYPICAL DOOR NOTES:**

- SEE ARCHITECTURAL FLOOR PLANS FOR DOORS LOCATIONS AND DESIGNATIONS.
- INTERIOR UNIT DOORS ARE CALLED OUT ON THE UNIT PLANS, AND THE NOMINAL WIDTH IS SHOWN. DOOR HEIGHTS TO BE 6'-8" TYP. (U.N.O.).
- DOOR SWINGS PER PLANS
- EXTERIOR DOORS MUST BE OPERABLE AT A MAXIMUM 8.5 POUNDS PRESSURE. INTERIOR DOORS MUST BE OPERABLE AT A MAXIMUM 5 POUNDS PRESSURE. ALL DOORS MUST BE OPERABLE BY WRIST OR ARM PRESSURE.
- SEE PLANS FOR DOOR HANDS.
- FINISH DOOR HARDWARE PER OWNER'S SPECIFICATIONS, TYP. (U.N.O.)
- PROVIDE SAFETY GLAZING PER GENERAL NOTES IN SHEET A003.
- ALL DOOR HARDWARE MUST COMPLY WITH ALL ANSI A117.1 REQUIREMENTS
- EXIT DOORS GENERAL OPERATION. LOCK/LATCH/HARDWARE SHALL BE IN CONFORMANCE WITH ALL SECTIONS OF IBC SEC. 1008 AND 1018.1, AND SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT. EXIT HARDWARE TO THE UNITS ARE TO ALLOW A SINGLE TURN OF THE KNOB (OR LEVER) TO DISENGAGE ANY SINGLE CYLINDER DEAD BOLTS CONTEMPLATED. FOR BARRIER FREE EXIT DOORS, ALSO SEE BARRIER FREE NOTES IN SHEET A007 - A010
- ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING HARDWARE SHALL ON DOORS REQUIRED TO BE ACCESSIBLE BY IBC CHAPTER 11 SHALL COMPLY WITH IBC SECTION 1008.1.9 AND NOT REQUIRE TIGHT GRASPING, TIGHT FINCHING OR TWISTING/TWISTING OF THE WRIST TO OPERATE. SEE FIGURE 1008.1.9.1 THIS SHEET.
- THERE SHALL NOT BE PROJECTIONS INTO THE CLEAR WIDTH LOWER THAN 34 INCHES ABOVE THE FLOOR OR GROUND. PROJECTIONS INTO THE WIDTH BETWEEN 34 AND 80 INCHES ABOVE THE FLOOR OR GROUND SHALL NOT EXCEED 4" PER IBC SECTION 1008.1.1.1.
- GUESTROOM ENTRY DOORS SHALL HAVE A MINIMUM STC RATING OF 30.
- ALL FIRE RATED DOORS SHALL BE EQUIPPED WITH AN ACTIVE LATCH BOLT (INTRIGAL WITH HARDWARE) THAT WILL SECURE THE DOOR WHEN CLOSED PER IBC 1008.1.10.
- ALL DOORS SHALL BE EQUIPPED WITH LEVER TYPE ACTIVATING HARDWARE PER ICC A117.1 EXCEPT WHERE PANIC HARDWARE IS PROVIDED.
- GASKETS AT ALL FIRE RATED DOORS SHALL MEET THE REQUIREMENTS OF IBC 716.9.3.1 AND THE REQUIREMENTS FOR SMOKE AND DRAFT CONTROL DOOR ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE FOOT OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE AND ELEVATED TEMPERATURE TESTS. LOUVERS ARE PROHIBITED. INSTALLATION OF SMOKE DOORS SHALL BE IN ACCORDANCE WITH NFPA 105.



1 DOOR TYPES  
1/4" = 1'-0"

**DOOR HARDWARE GROUPS AND FINISHES.**

Hardware finishes and base metals shall be listed below, unless otherwise indicated.

Satin stainless steel (US32D) and satin chromium plated (US26D) finishes and base metals, unless otherwise indicated.

- |                            |                                 |
|----------------------------|---------------------------------|
| 1. Exterior Hinges         | US32D on stainless steel.       |
| 2. Interior Hinges         | US26D on steel.                 |
| 3. Flush Bolts             | US26D on brass or bronze.       |
| 4. Locks -                 | US32D on stainless steel.       |
| 5. Exit Devices            | 33 Series Sprayed Aluminum-689. |
| 6. Exit Devices -          | 99 Series Sprayed Aluminum-689. |
| 7. Pulls, Push Plates/Bars | US32D on stainless steel.       |
| 8. Closers                 | Sprayed aluminum.               |
| 9. Overhead Stops/Holders  | US26D on brass or bronze.       |
| 10. Kickplate              | US32D on stainless steel.       |
| 11. Door Edge Guards       | US32D on stainless steel.       |
| 12. Stops, Holders         | US26D on brass or bronze.       |
| 13. Thresholds             | Mill on aluminum.               |
| 14. Miscellaneous          | US26D on brass or bronze.       |

Hardware on aluminum doors shall match finish of doors and frame.  
 1. US32 and US32D Solid 18-8 chromium-nickel, 300 Series, "Austenitic", non-magnetic.  
 a. Straight chrome-irons (magnetic) are not acceptable, except as hinge pins.  
 b. Items showing magnetic properties will be rejected.  
 c. For items not available in US32 or US32D provide US26 or US26D.

**Door Hardware Groups.**

**TYPE 1 - Apartment entrance door.**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Lockset/Function: Electronic mortise lockset with throw deadbolt/ dead-locking latchbolt on interior room side.  
 Privacy Door Latch: Cannot be used to keep door ajar; Can be legally installed on fire rated openings.  
 Closer: Parallel arm closer with appropriate mounting and cover. Hardware. 1 Reqd.  
 Stop: Wall Stop, 1 Reqd.  
 Gaskets: Smoke, 1 set of double gasket system for single leaf door.  
 Accessories: Swing door guard, Door Viewer: Standard (160 degree) door viewer, UL Listed Glass Lites with manufacturer provided privacy cap, 1 each per door, for ADA Room 2 each per door. - All finishes to be US32D/US26D.  
 Bottom Seal: Door bottom Seal - See ID10.20 for specification.  
 Threshold: Stone or PVC.

**TYPE 2 - Bedroom/Study/Bathroom hinged door.**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Lockset/Function: Privacy, Bathroom or Bedroom Function ANSI F76, with privacy push button.  
 Inside button locks outside lever.  
 Stop: Floor or Wall Stop, 1 Reqd.  
 Door Silencers: 3 door silencers.

**TYPE 3 - Fitness room door/Community Room**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Lockset/Function: Electronic mortise lockset with free access on interior room side.  
 Closer: Parallel arm closer with appropriate mounting and cover. 1 Reqd.  
 Stop: Floor Stop, 1 Reqd.  
 Gaskets: Door Seal. Bottom Seal: Door bottom Seal - Threshold: Stone or PVC.

**TYPE 4 - Single Swing Clost/Laundry**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.

**TYPE 5 - Double Swing Clost/Laundry**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.

**TYPE 6 - Deck Door Swing**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Lockset  
 Closer: Parallel arm closer with appropriate mounting and cover. 1 Reqd.  
 Gaskets: Weatherstripping, 1 set for single leaf door.  
 Door sweep: Neoprene with 1/2-inch sweep at door bottom with 1 1/4-inch aluminum extrusion  
 Threshold: Aluminum 5-inch saddle, 1/2-inch high.  
 Overhead Drip: 2-1/2-inch projection by full width of frame with clear anodized aluminum finish.

**TYPE 7 - Stair entry door.**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Pull: 1 Pull Plate.  
 Lockset/Function: Passage Function ANSI F75, free access both sides.  
 Exit Device: Rim type Exit device.  
 Closer: Parallel arm closer with appropriate mounting and cover. 1 Reqd.  
 Stop: Wall Stop, 1 Reqd.  
 Gaskets: Fire, 1 set for single leaf door.

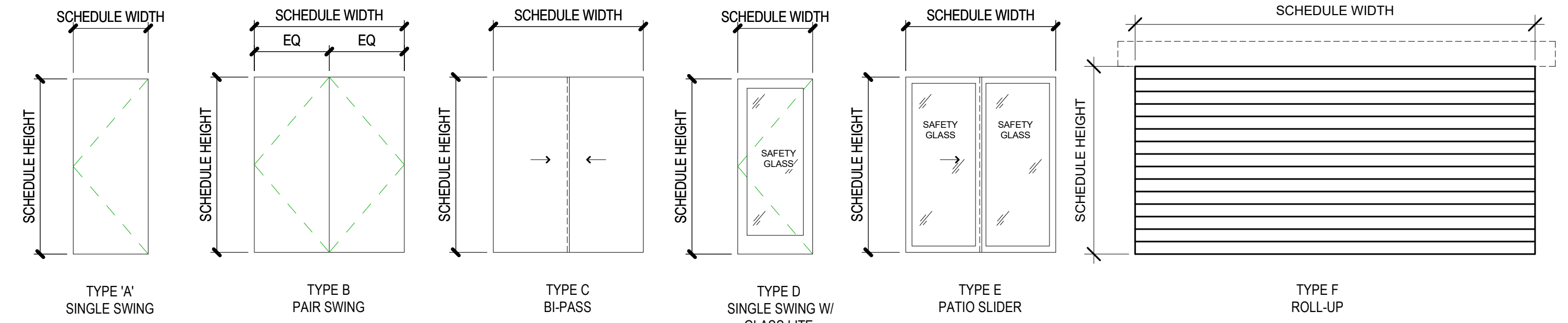
**TYPE 8 - Stair exterior exit door, PANIC HARDWARE REQ.**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Lockset/Function: ANSI 02.  
 Closer: Parallel arm closer with appropriate mounting and cover. 1 Reqd.  
 Stop: Floor Stop or Overhead Stop, 1 Reqd.  
 Gaskets: Weatherstripping, 1 set for single leaf door.  
 Door sweep: Neoprene with 1/2-inch sweep at door bottom with 1 1/4-inch aluminum extrusion  
 Threshold: Aluminum 5-inch saddle, 1/2-inch high.  
 Overhead Drip: 2-1/2-inch projection by full width of frame with clear anodized aluminum finish.  
 Comments: .

**TYPE 9 - Corridor/ Elevator Doors.**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Exit Device: Rim type Fire Rated Exit device with surface mounted top latch bolts, 2 Reqd.  
 Closer: Concealed door closer. 2 Reqd.  
 Door Hold Open Device: Wall mounted manual push release and automatic release in the event of fire alarm.  
 Stop: Wall Stop, 2 Reqd.  
 Gaskets: Smoke, 1 set of double gasket system for single leaf door.  
 Comments: Magnetic hold open connected to fire alarm.

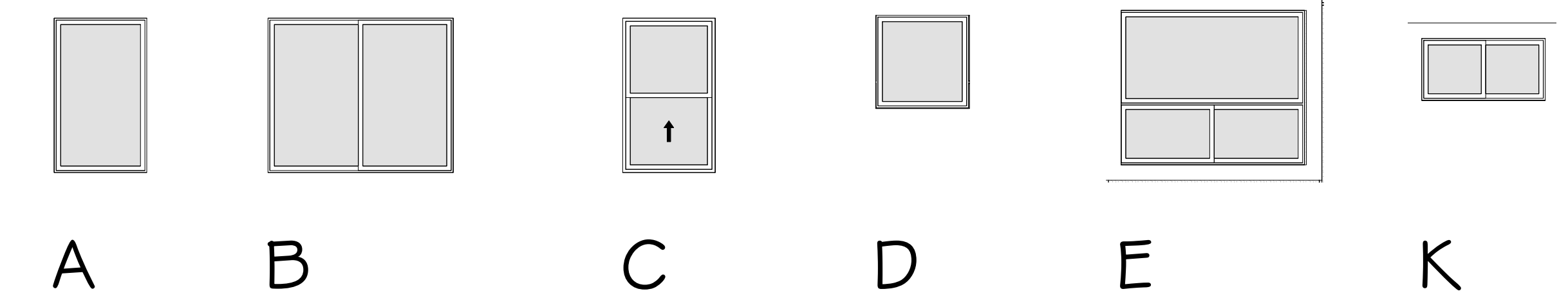
**TYPE 10 - Electrical/Mechanical Closet PANIC HARDWARE REQUIRED AT ELECTRICAL**  
 Hinges: Construction, type and quantity as specified. Qty 3 per leaf 4-1/2 by 4-1/2-inches.  
 Lockset/Function: Electronic mortise lockset.  
 Exit Device: Rim type Exit device.  
 Closer: Parallel arm closer. 1 Reqd.  
 Stop: Overhead stop, 1 Reqd.  
 Door Edge Bolts: Door edge flush bolts, top on bottom.

DOOR SCHEDULE											
MARK	TYPE	SIZE		U-Value	PANEL		Frame Material	HARDWARE	FIRE RATING	Count	Comments
		WIDTH	HEIGHT		FINISH	MATERIAL					
1	ENTRY	3' - 0"	6' - 8"		FLAM	SCWD	MTL	1, 2, 3, 4, 5	20 MIN.	22	SELF-CLOSING - SMOKE GASKET
2	E	6' - 0"	6' - 8 1/2"	.30		GLASS-VINYL	VINYL	1, 4		14	WEATHER STRIPPING
3	A	2' - 10"	6' - 8"		WD PAINT	HCWD	WD	6		36	
4	A	2' - 10"	6' - 8"		WD PAINT	HCWD	WD			19	
5	A	2' - 8"	6' - 8"		WD PAINT	HCWD	WD	6		9	
8	D	4' - 0"	6' - 8"		WD PAINT	HCWD	WD			25	
9	E	5' - 0"	6' - 8"		WD PAINT	HCWD	WD			14	
10	A	2' - 10"	6' - 8"		WD PAINT	HCWD	WD			9	
11	D	3' - 0"	6' - 8"	.30		GLASS-VINYL	VINYL			9	WEATHER STRIPPING
13	E	4' - 0"	6' - 8"		WD PAINT	HCWD	WD			2	
14	A	2' - 10"	6' - 8"		FLAM	SCWD	MTL	2, 3, 4, 5	45 MIN	1	SELF-CLOSING - SMOKE GASKET
15	A	3' - 0"	6' - 8"		FLAM	SCWD	MTL	1, 2, 3, 4, 5	45 MIN	2	SELF-CLOSING - SMOKE GASKET
EL1	A	3' - 0"	7' - 0"		FLAM	SCWD	MTL		90MIN	3	SELF-CLOSING - SMOKE GASKET
M1	A	3' - 0"	6' - 8"		FLAM	SCWD	MTL	2, 4	20 MIN	3	SELF-CLOSING - SMOKE GASKET
M2	A	3' - 0"	6' - 8"		PAINT	MTL	MTL	1, 4, 13		2	WEATHER STRIPPING
ST1	A	3' - 0"	6' - 8"		WD PAINT	SCWD	MTL	2, 3, 5	90 MIN.	7	SELF-CLOSING - SMOKE GASKET
ST3	A	3' - 0"	6' - 8"	.37	WD PAINT	SCWD	MTL	1, 3, 4	45 MIN	2	WEATHER STRIPPING
ST4	A	3' - 0"	6' - 8"	.37	PAINT	MTL	MTL	1, 4, 13	90 MIN.	1	WEATHER STRIPPING

NOTE: ALL RATED DOOR AT CORRIDORS TO BE PROVIDED WITH SMOKE AND DRAFT WITH AN "S" LABEL

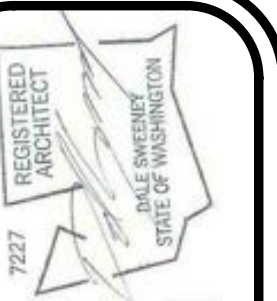


WINDOW SCHEDULE2										
MARK	Width	Height	Operation	Frame	U-Value	SHGC	COUNT	COMMENTS	Material	Type
A	3' - 0"	5' - 0"	FIXED		.30	.40	9		Vinyl	36" x 72"
B	6' - 0"	5' - 0"	SLIDER		.30	.40	28		Vinyl	72" x 60"
C	3' - 0"	5' - 0"	SINGLE HUNG		.30	.40	15		Vinyl	36" x 60"
D	3' - 0"	3' - 0"	FIXED		.30	.40	9		Vinyl	36" x 36"
E	6' - 0"	5' - 0"	BOTTOM SLIDER		.30	.40	9		Vinyl	72" x 72"
K	4' - 0"	2' - 0"	SLIDER		.30	.40			Vinyl	48" x 24"
Grand total:							72			



**1015.8 Window openings.** Windows in Group R-2 and R-3 buildings including dwelling units, where the top of the sill of an operable window opening is located less than 36 inches above the finished floor and more than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, shall comply with one of the following:

- Operable windows where the top of the sill of the opening is located more than 75 feet (22 860 mm) above the finished grade or other surface below and that are provided with window fall prevention devices that comply with ASTM F2096.
- Operable windows where the openings will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening when the window is in its largest opened position.
- Operable windows where the openings are provided with window fall prevention devices that comply with ASTM F2090.
- Operable windows that are provided with window opening control devices that comply with Section 1015.8.1.



**Dale Swency**  
 ARCHITECT  
 5715 143rd Place SE  
 Bellevue, WA 98006

JOB NO. SHRLN-001  
 DATE: 6/26/2017  
 DWN. BY: Author  
 CHKD BY: Checker  
 RVS'D:

NO.	DATE	Revision Description
1	9/8/19	City Comments
2	4/28/20	City Comments

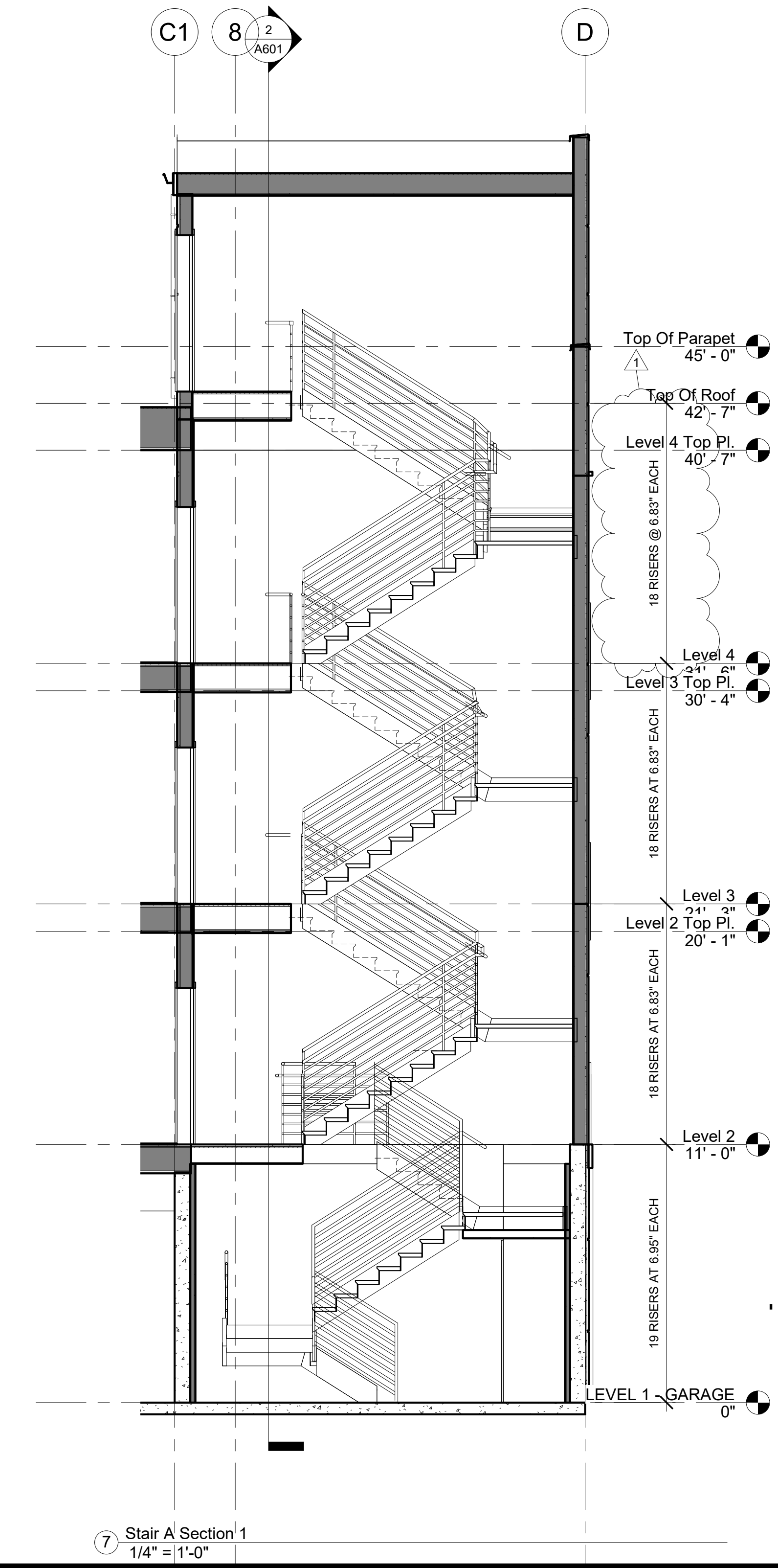
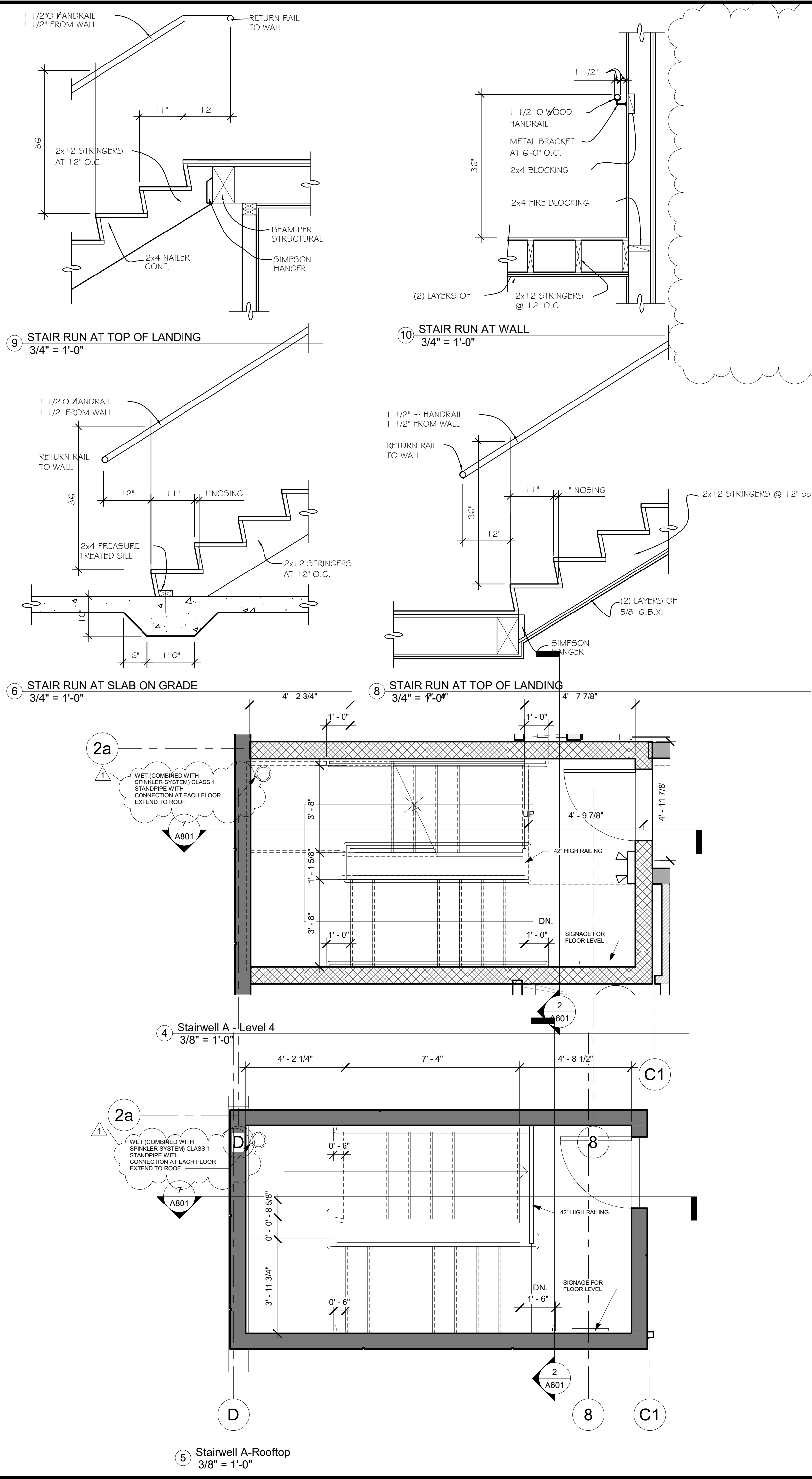
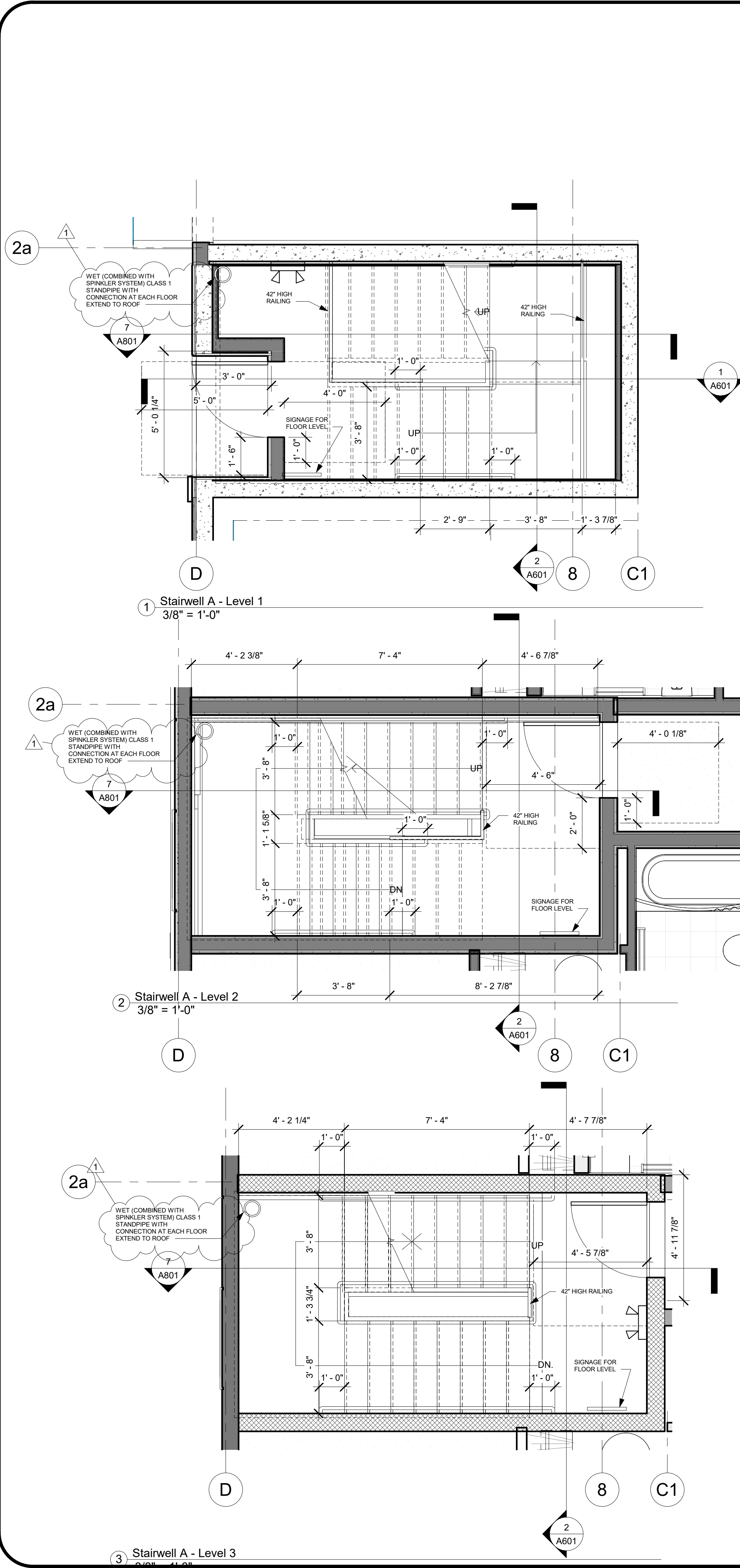
**TP HOME 22 UNIT**  
**APTS. 2152**  
 TP Home LLC  
 2152 N 185TH ST.

**SCHEDULES**

PRINT DATE:  
 2/15/2021 12:47:37 PM

**SHEET NO.**

**A701**



**STAIRWAY NOTES**

All stairways shall be built of materials consistent with the types permitted for the type of construction of the building, except that wood handrails shall be permitted for all types of construction per IBC Section 1009.9

Penetrations other than those necessary for the purpose of the exit access stairway enclosure and exit passageway shall not be permitted in exit access stairway enclosures per IBC Sections 1009.3.1.5.1 and 1023.6.

Stairways shall maintain a minimum headroom clearance of 80 inches and minimum width of 44 inches per IBC Sections 1009.4 and 1009.5 except stairways serving an occupant load of less than 50 shall have a width of not less than 36 inches.

See Sheet G2.1, G2.2 for barrier free requirements

Provide a heat source in stairwells to keep standpipe system above 40 degrees.

The leading 2" (51mm) of the tread shall have visual contrast of dark-on-lighter or light-on-dark from the remainder of the tread.

See Sheet A803 for Stair Signage Requirements

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5715 143rd Place SE  
Bellevue, WA 98006

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RVS'D:

REVISIONS  
NO. DATE Revision Description  
1 9/8/19 City Comments

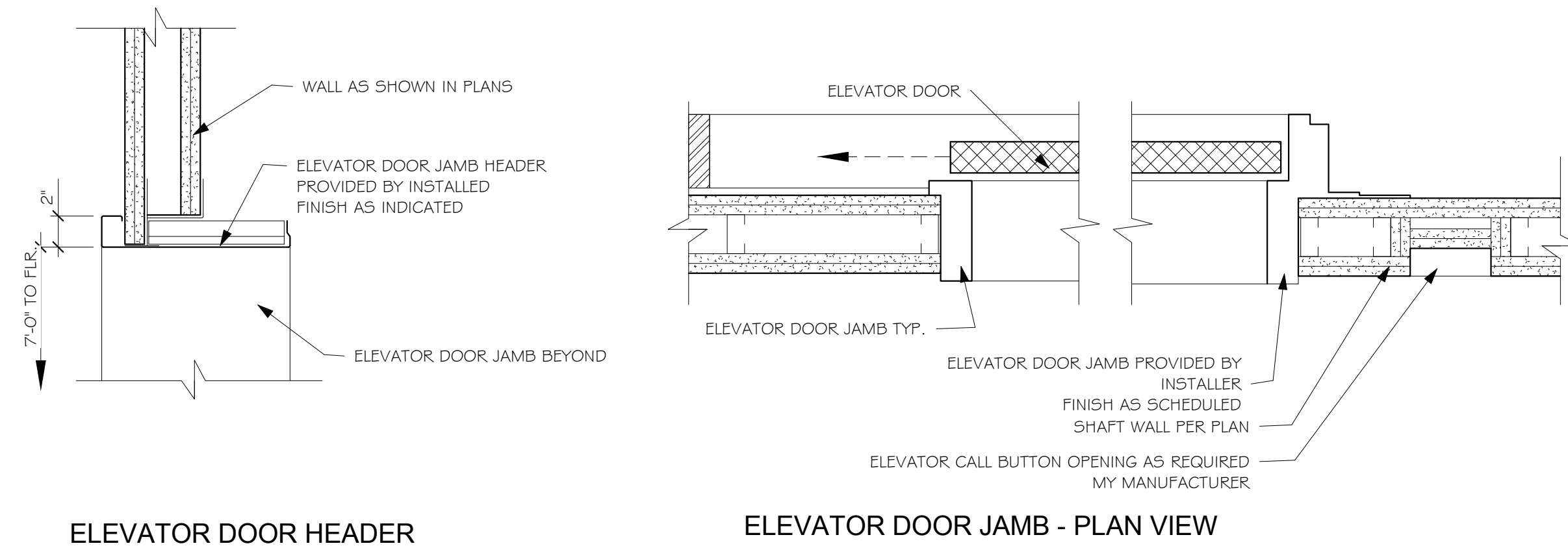
**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**STAIR A PLANS  
A801**

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SHEET NO. **A801**

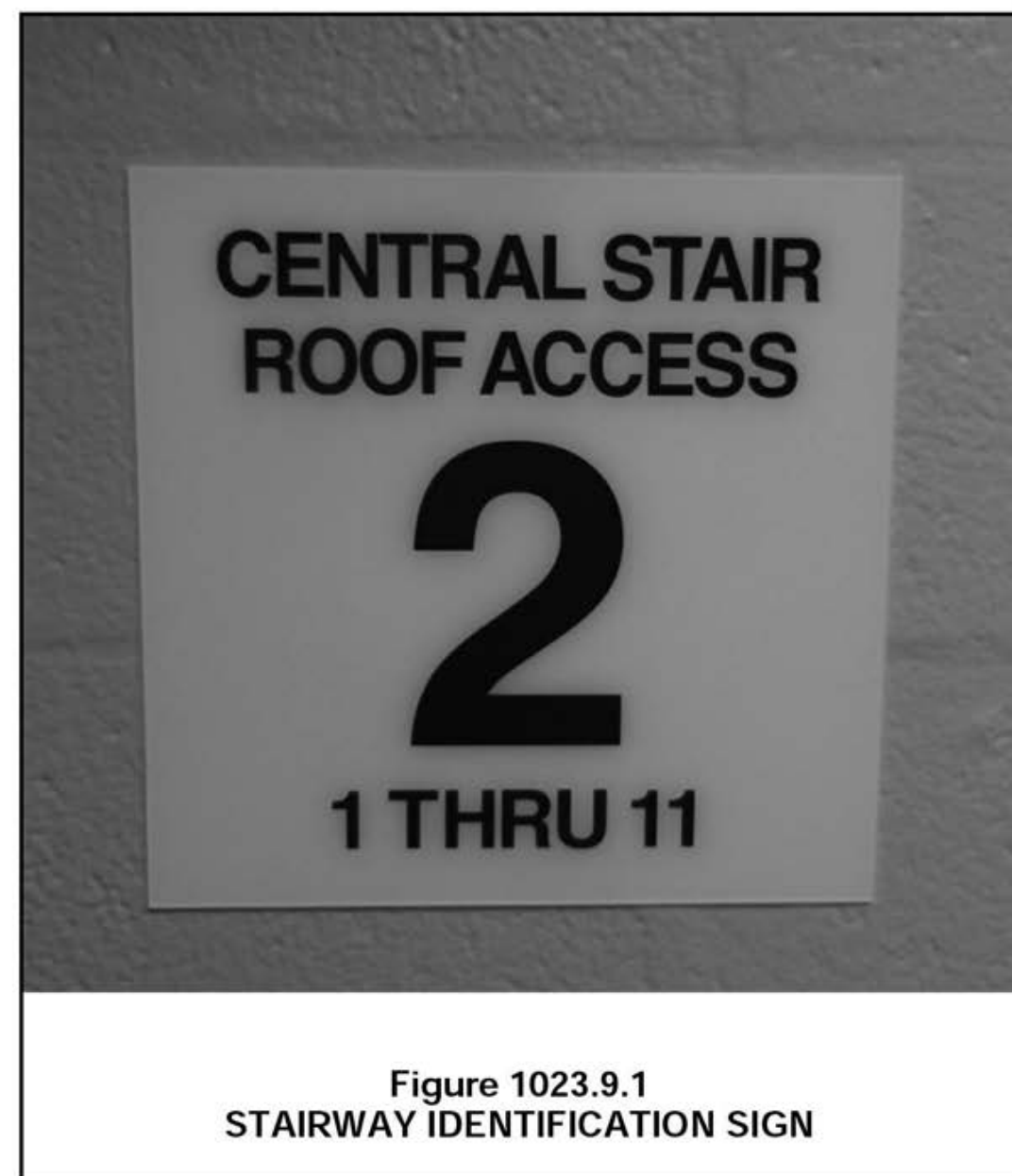




8 Elevator Opening Details  
1 1/2" = 1'-0"

**STAIR SIGNAGE REQUIREMENTS:**

**1023.9 Stairway identification signs.** A sign shall be provided at each floor landing in an *interior exit stairway* and *ramp* connecting more than three stories designating the floor level, the terminus of the top and bottom of the *interior exit stairway* and *ramp* and the identification of the *stairway* or *ramp*. The signage shall also state the story of, and the direction to, the *exit discharge* and the availability of roof access from the *interior exit stairway* and *ramp* for the fire department. The sign shall be located 5 feet (1524 mm) above the floor landing in a position that is readily visible when the doors are in the open and closed positions. In addition to the *stairway* identification sign, a floor-level sign in visual characters, raised characters and braille complying with *ICC A117.1* shall be located at each floor-level landing adjacent to the door leading from the *interior exit stairway* and *ramp* into the *corridor* to identify the floor level.



**GENERAL ELEVATOR NOTES:**

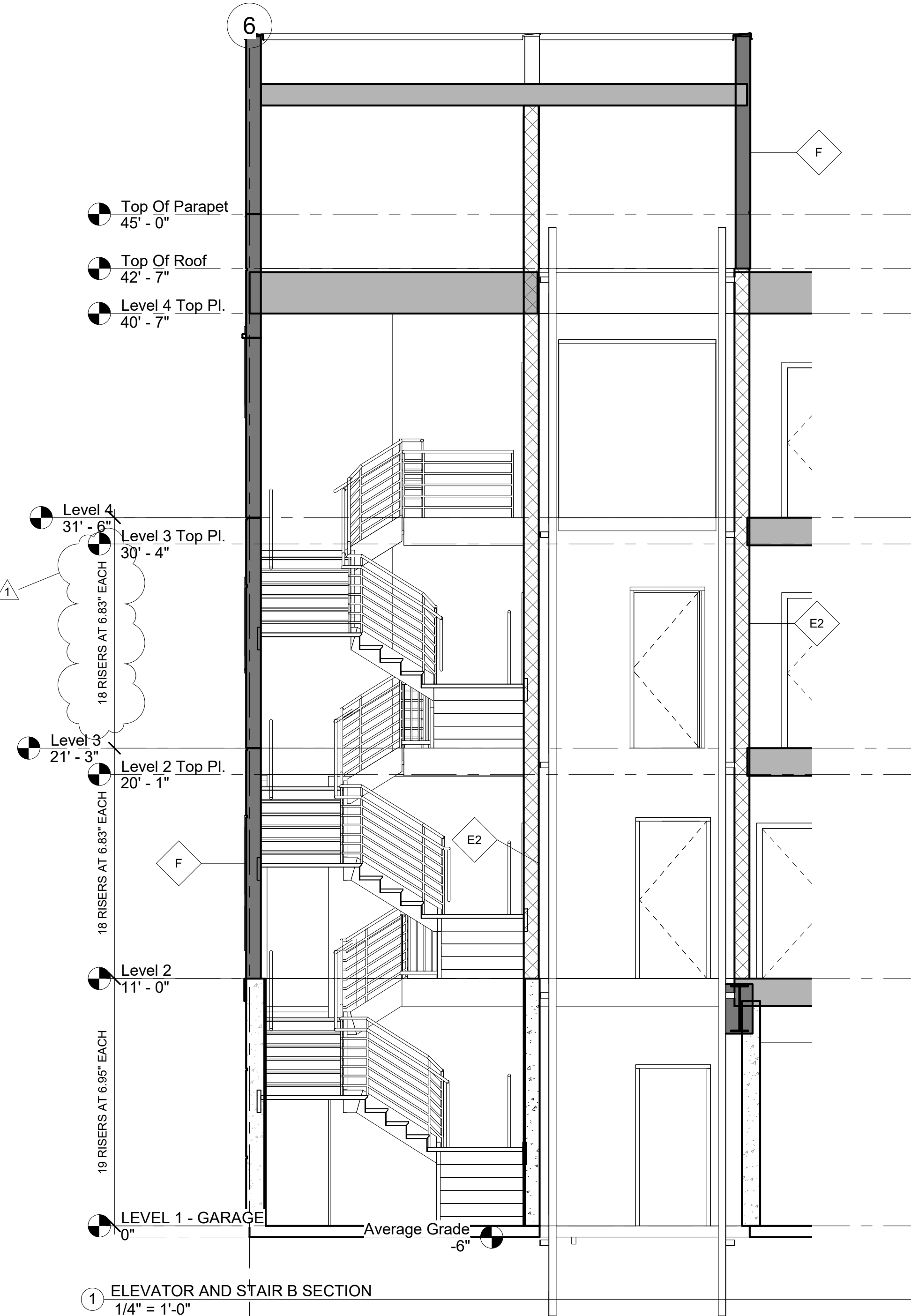
ALL ELEVATORS SHALL COMPLY WITH THE EMERGENCY OPERATION AND SIGNALING DEVICE REQUIREMENTS OF SECTION 2.27 OF ASME A17.1. STANDBY POWER SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 2702 AND 3003.

1. ELEVATOR ENCLOSURE SHALL BE SHAFT ENCLOSURES COMPLYING WITH ICC SECTION 707.
2. OPENINGS IN HOISTWAY ENCLOSURES SHALL BE PROTECTED AS REQUIRED IN CHAPTER 7.  
A. HARDWARE ON OPENING PROTECTIVES SHALL BE OF AN APPROVED TYPE INSTALLED AS TESTED, EXCEPT THAT APPROVED INTERLOCKS, MECHANICAL LOCKS AND ELECTRIC CONTACTS, DOOR AND GATE ELECTRIC CONTACTS AND DOOR-OPERATING MECHANISMS SHALL BE EXEMPT FROM THE FIRE TEST REQUIREMENTS.
3. AN APPROVED PICTORIAL SIGN OF A STANDARDIZED DESIGN SHALL BE POSTED ADJACENT TO EACH ELEVATOR CALL STATION ON ALL FLOORS INSTRUCTING OCCUPANTS TO USE THE EXIT STAIRWAYS AND NOT TO USE THE ELEVATORS IN CASE OF FIRE. THE SIGN SHALL READ: **IN FIRE EMERGENCY, DO NOT USE ELEVATOR. USE EXIT STAIRS.** THE EMERGENCY SIGN SHALL NOT BE REQUIRED FOR ELEVATORS THAT ARE PART OF AN ACCESSIBLE MEANS OF EGRESS COMPLYING WITH IBC SECTION 1009.4.
4. WHERE ELEVATORS ARE PROVIDED IN BUILDINGS FOUR OR MORE STORIES ABOVE GRADE PLANE OR FOUR OR MORE STORIES BELOW GRADE PLANE, AT LEAST ONE ELEVATOR SHALL BE PROVIDED FOR FIRE DEPARTMENT EMERGENCY ACCESS TO ALL FLOORS. THE ELEVATOR CAR SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE A 24-INCH BY 64-INCH AMBULANCE STRETCHER IN THE HORIZONTAL, OPEN POSITION AND SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES (STAR OF LIFE). THE SYMBOL SHALL NOT BE LESS THAN 3 INCHES HIGH AND SHALL BE PLACED INSIDE ON BOTH SIDES OF THE HOISTWAY DOOR FRAME.
5. PROVIDE TWO-WAY COMMUNICATION SYSTEM IN ACCORDANCE WITH WAC 1009.8.1 - SEE REFERENCE BELOW.
6. THE MACHINE ROOM VENTILATION OR AIR CONDITIONING SHALL BE CONNECTED TO THE STANDBY POWER SOURCE.
7. ELEVATORS SHALL BE PROVIDED WITH PHASE I EMERGENCY RECALL OPERATION AND PHASE II EMERGENCY IN-CAR OPERATION IN ACCORDANCE WITH ASME A17.1.
7. ALL ELEVATORS SHALL BE EQUIPPED TO OPERATE WITH A STANDARD FIRE SERVICE ELEVATOR KEY IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE PER IBC SECTION 3003.3.

**ELEVATOR USED TO ACCOMMODATE STRETCHER**

IBC 3002.4  
Where elevators are provided in buildings four or more stories above, or four or more stories below, grade plane, not fewer than one elevator shall be provided for fire department emergency access to all floors. The elevator car shall be of such a size and arrangement to accommodate an ambulance stretcher 24 inches by 64 inches (610 mm by 2134 mm) with not less than 5-inch (127 mm) radius corners, in the horizontal, open position and shall be identified by the international symbol for emergency medical services (star of life). The symbol shall be not less than 3 inches (76 mm) in height and shall be placed inside on both sides of the hoistway door frame.

**1009.8.1 System requirements.** Two-way communication systems shall provide communication between each required location and the *fire command center* or a central control point location *approved* by the fire department. Where the central control point is not a *constantly attended location*, a two-way communication system shall have a timed automatic telephone dial-out capability to a monitoring location. The two-way communication system shall include both audible and visible signals. The two-way communication system shall have a battery backup or an approved alternate source of power that is capable of 90 minutes use upon failure of the normal power source.



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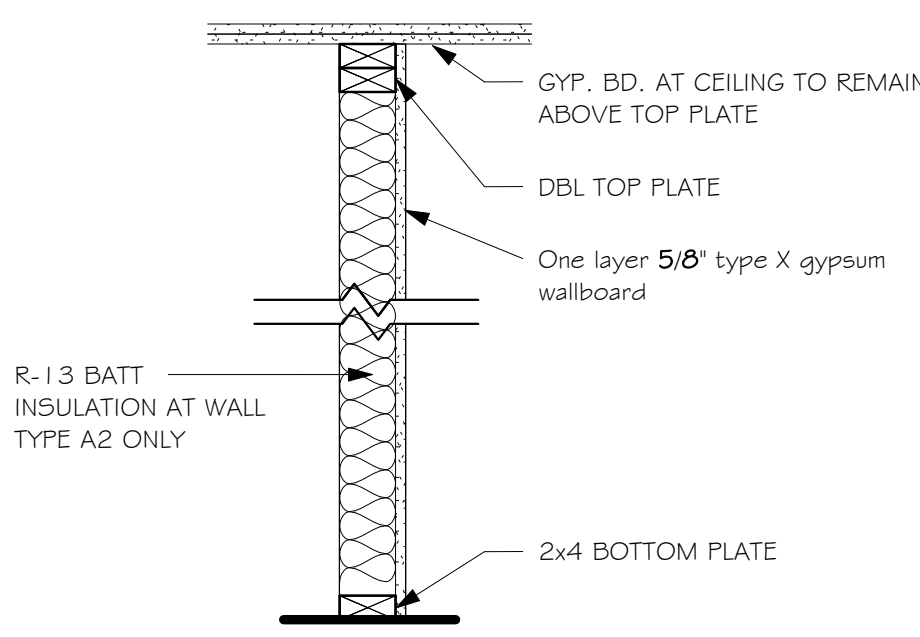
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**ELEVATOR & STAIR B  
SECTION**

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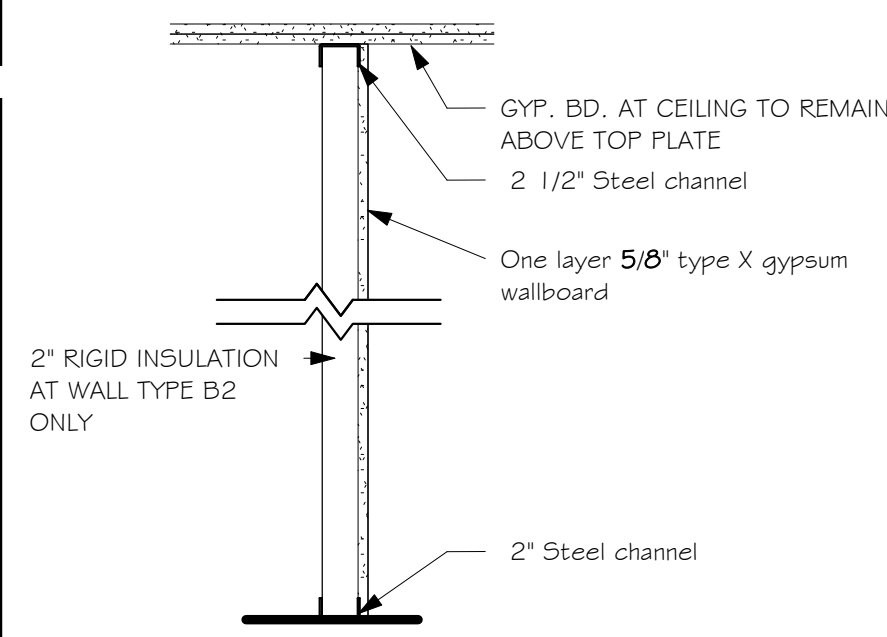
SHEET NO.  
**A803**

**NR WALL:  
WOOD STUD FURRING WALL**



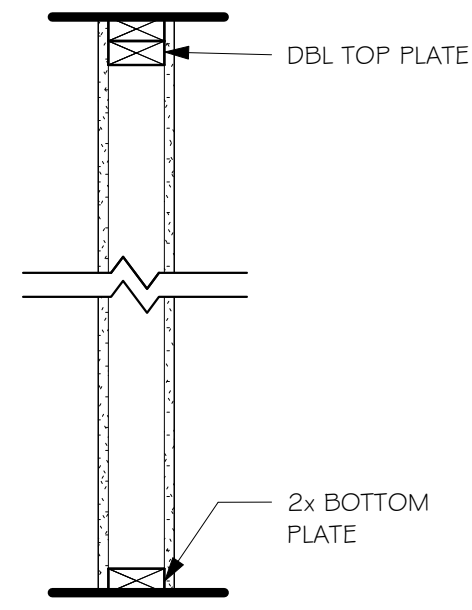
\*SEE STRUCTURAL DRAWING FOR PLYWOOD SHEARWALL LOCATIONS  
**WALL TYPE - A1**  
**WALL TYPE - A2**  
w/ 2" RIGID INSULATION

**NR WALL:  
METAL STUD FURRING WALL**



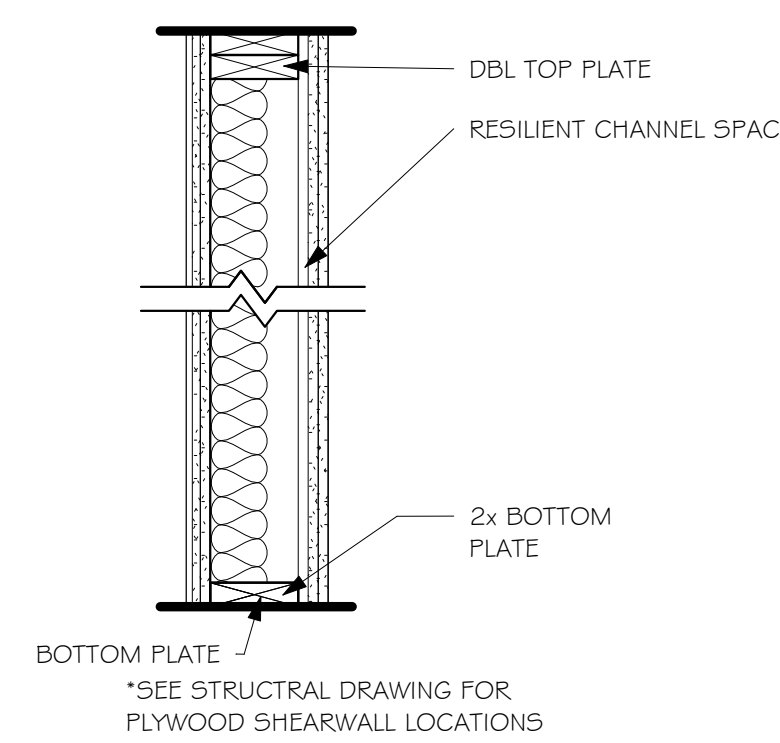
\*SEE STRUCTURAL DRAWING FOR PLYWOOD SHEARWALL LOCATIONS  
**WALL TYPE - B1**  
**WALL TYPE - B2**  
w/ 2" RIGID INSULATION

**1 HR WALL: (2x)  
GA FILE #: WP 3520  
35 TO 39 STC SOUND**



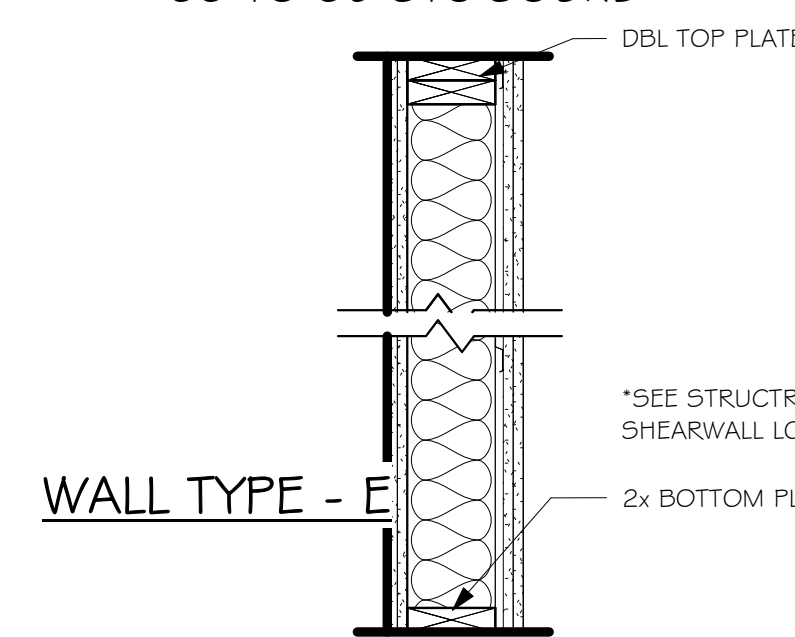
\*SEE STRUCTURAL DRAWING FOR PLYWOOD SHEARWALL LOCATIONS  
**WALL TYPE C1 - 2 X 4 FRAMING**  
**WALL TYPE C2 - 2 X 6 FRAMING**

**PARTY WALL/CORRIDOR WALL  
TYP. 1 HR WALL -LOAD BEARING  
GA FILE#: WP 3825  
55 TO 59 STC SOUND**



\*SEE STRUCTURAL DRAWING FOR PLYWOOD SHEARWALL LOCATIONS  
**WALL TYPE - D**

**ELEVATOR/STAIR (LOAD BEARING)  
2 HR INTERIOR PARTITION WALL:  
GA FILE#: WP 3825  
55 TO 59 STC SOUND**



\*SEE STRUCTURAL DRAWING FOR PLYWOOD SHEARWALL LOCATIONS  
**WALL TYPE - E**  
**WALL TYPE E1 - 2 X 6 STUDS WITH INSUL. & RC**  
**WALL TYPE E2 - 2 X 6 STUDS AND NO INSUL. OR RC**  
**WALL TYPE E3 - 2 X 4 STUDS AND NO INSUL. OR RC**  
**WALL TYPE E4 - 2 X 8 STUDS WITH INSUL. & RC**

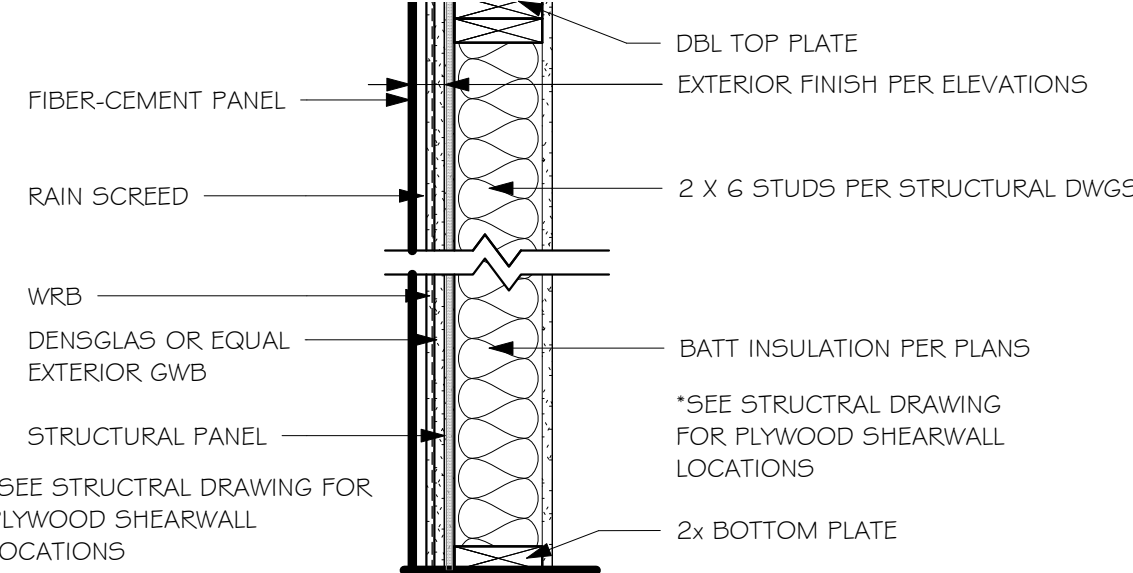
**WALL ASSEMBLY NOTES**

- Stone and Masonry veneer to be installed in strict conformance with ESR Reports (ICC) for manufacturer selected. Comply with the Masonry Veneer Manufacturers Association requirements & specifications for systems not evaluated by ICC. 2012 International Building Code requirements and industry recognized trade standards.
- U.I.O., Concrete Slab (Re: Structural for thickness and reinforcing) on 2" sand (optional, provide allowance) over 10mil vapor barrier on 4" thk. layer of gravel 1/2" to 3/4" size (also Re: soils report). Use smooth gravel where 2" sand is omitted.
- GYP PANELS:
  - Use water and mold resistant glass fiber-faced substrate at pool walls and ceilings, shower walls and plumbing walls.
  - Use moisture resistant non-paper-faced substrate at all other bathroom and restroom walls.
  - Use water, mold, and indentation resistant non-paper-faced underlayment for all carpet, vinyl, and tile interior floor covering over slab on grade where recommended by manufacturer.
- FIRE RATED ASSEMBLIES - Maintain required fire-rating of all assemblies. Many approved recessed lighting fixtures require special protection. Consult the fire test report or listing for the specific system for protection details and the opening area limitation.
- Weather Resistive Barrier to be DuPont™ Tyvek® Commercial Wrap System and system accessories, or approved equal.
- Fire-rated features take precedence over acoustical features.
- Provide Denshield or approved equal at all tub/shower locations.
- All exterior walls to receive a separate interior vapor retarder membrane at studs.

**DRAFTSTOPPING/FIREBLOCKING NOTES**

- Fireblocking to comply with IBC 718 - CONCEALED SPACES.
- Provide Fireblocking at the following locations:
  - Horizontally at all interior and exterior walls at 10'-0" O.C. max.
  - Vertically at all floor and ceiling levels.

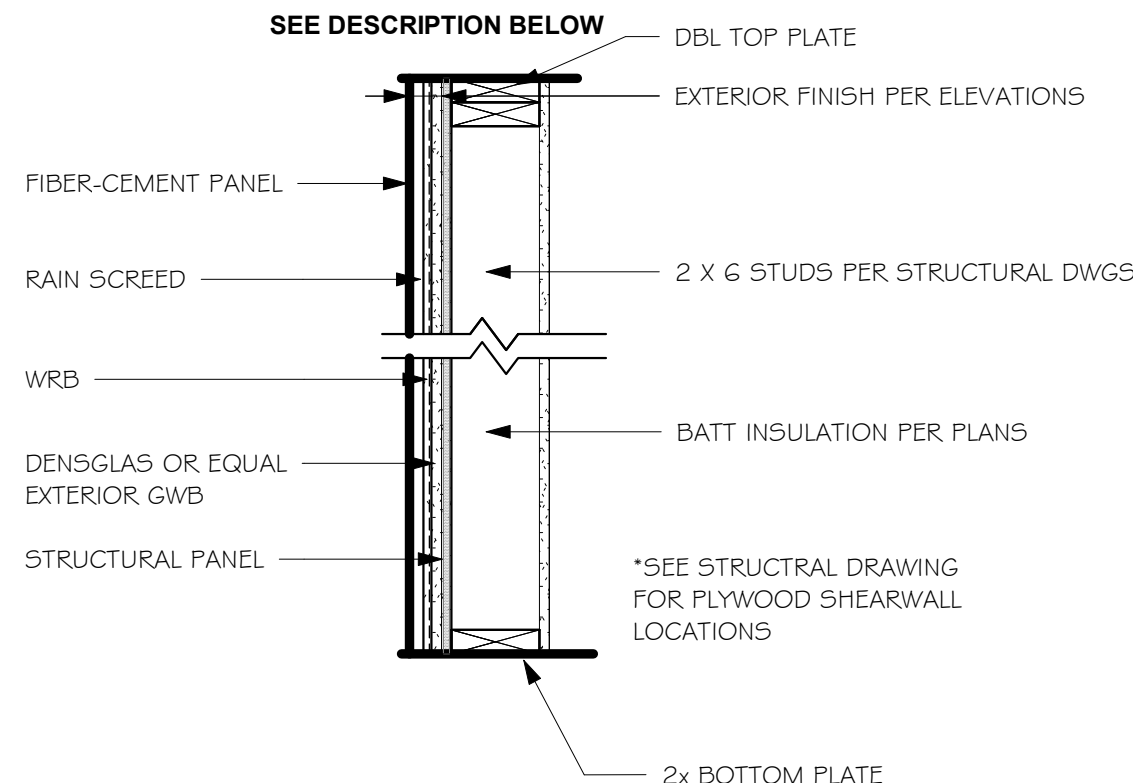
**TYP. EXTERIOR WALL (1 HR):  
GA FILE WP 8126**



**WALL TYPE - F**

GA FILE NO. WP 8126	PROPRIETARY*	1 HOUR FIRE																								
<b>GYPSUM WALLBOARD, FOAM PLASTIC BOARDS, WOOD STUDS, EXTERIOR CLADDING</b>																										
EXTERIOR SIDE: Base layer 1/2" proprietary type X gypsum sheathing or glass mat gypsum substrate applied parallel to 2 x 4 wood studs 16" o.c. with 6d cement-coated or common nails or 1 1/4" Type W drywall screws 7" o.c. Second layer maximum 1 1/2" proprietary faced polyisocyanurate foam plastic sheathing applied parallel to studs with 3" galvanized roofing nails 8" o.c. at perimeter and 12" o.c. at intermediate studs. Face layer exterior siding, fiber-cement siding, masonry veneer, stucco, or exterior insulation and finish system (EIFS).																										
INTERIOR SIDE: 1/2" proprietary type X gypsum wallboard applied at right angles to studs with 6d cement-coated or common nails or 1 1/4" Type W drywall screws 7" o.c. Unfaced 3 1/2" glass fiber, 0.72 pcf, friction fit in stud space. (LOAD-BEARING)																										
<table border="1"> <tr> <th>PROPRIETARY GYPSUM BOARD</th> <th>1/2" FireBlock® Type X</th> <th>1/2" FireBlock® Type X</th> </tr> <tr> <td>American Gypsum Company LLC</td> <td>1/2" FireBlock® Type X</td> <td>1/2" FireBlock® Type X</td> </tr> <tr> <td>CertainTeed Gypsum Inc.</td> <td>1/2" GlasRoc® Sheathing Type X Gypsum Panels</td> <td>1/2" GlasRoc® Sheathing Type X Gypsum Panels</td> </tr> <tr> <td>Georgia Pacific Gypsum LLC</td> <td>1/2" CertainTeed® Type X Gypsum Board</td> <td>1/2" DensArmor Plus® Fireguard® Interior Panel</td> </tr> <tr> <td>Lafarge North America Inc.</td> <td>1/2" DensGlass® Fireguard® Sheathing</td> <td>1/2" Weather Defense® Platinum Sheathing</td> </tr> <tr> <td>National Gypsum Company</td> <td>1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Sheathing</td> <td>1/2" Firecheck® Type X Gypsum Sheathing</td> </tr> <tr> <td>PABCO Gypsum</td> <td>1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Board</td> <td>1/2" FLAME CURB® Type X Gypsum Board</td> </tr> <tr> <td>Temple-Inland</td> <td>1/2" PABCO GLASS™ Sheathing Type X Gypsum Board</td> <td>1/2" GreenGlass Type X Gypsum Board</td> </tr> </table>			PROPRIETARY GYPSUM BOARD	1/2" FireBlock® Type X	1/2" FireBlock® Type X	American Gypsum Company LLC	1/2" FireBlock® Type X	1/2" FireBlock® Type X	CertainTeed Gypsum Inc.	1/2" GlasRoc® Sheathing Type X Gypsum Panels	1/2" GlasRoc® Sheathing Type X Gypsum Panels	Georgia Pacific Gypsum LLC	1/2" CertainTeed® Type X Gypsum Board	1/2" DensArmor Plus® Fireguard® Interior Panel	Lafarge North America Inc.	1/2" DensGlass® Fireguard® Sheathing	1/2" Weather Defense® Platinum Sheathing	National Gypsum Company	1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Sheathing	1/2" Firecheck® Type X Gypsum Sheathing	PABCO Gypsum	1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Board	1/2" FLAME CURB® Type X Gypsum Board	Temple-Inland	1/2" PABCO GLASS™ Sheathing Type X Gypsum Board	1/2" GreenGlass Type X Gypsum Board
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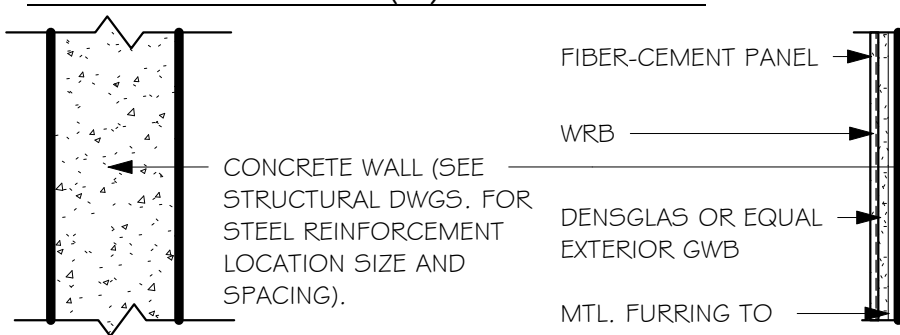
**TYP. EXTERIOR WALL (1 HR):  
GA FILE WP 8105**



**WALL TYPE - G**

GA FILE NO. WP 8105	GENERIC	1 HOUR FIRE																								
<b>GYPSUM WALLBOARD, GYPSUM SHEATHING, WOOD STUDS</b>																										
EXTERIOR SIDE: One layer 48" wide 5/8" type X gypsum wallboard applied parallel to 2 x 4 wood studs 24" o.c. with 1-3/4" galvanized roofing nails 4" o.c. at vertical joints and 7" o.c. at intermediate studs and top and bottom plates. Joints of gypsum sheathing may be left untreated. Exterior cladding to be attached through sheathing to studs.																										
INTERIOR SIDE: One layer 5/8" type X gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to studs with 6d coated nails, 1-7/8" long, 0.0915" shank, 1/4" heads, 7" o.c. (LOAD-BEARING)																										
<table border="1"> <tr> <th>PROPRIETARY GYPSUM BOARD</th> <th>1/2" FireBlock® Type X</th> <th>1/2" FireBlock® Type X</th> </tr> <tr> <td>American Gypsum Company LLC</td> <td>1/2" FireBlock® Type X</td> <td>1/2" FireBlock® Type X</td> </tr> <tr> <td>CertainTeed Gypsum Inc.</td> <td>1/2" GlasRoc® Sheathing Type X Gypsum Panels</td> <td>1/2" GlasRoc® Sheathing Type X Gypsum Panels</td> </tr> <tr> <td>Georgia Pacific Gypsum LLC</td> <td>1/2" CertainTeed® Type X Gypsum Board</td> <td>1/2" DensArmor Plus® Fireguard® Interior Panel</td> </tr> <tr> <td>Lafarge North America Inc.</td> <td>1/2" DensGlass® Fireguard® Sheathing</td> <td>1/2" Weather Defense® Platinum Sheathing</td> </tr> <tr> <td>National Gypsum Company</td> <td>1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Sheathing</td> <td>1/2" Firecheck® Type X Gypsum Sheathing</td> </tr> <tr> <td>PABCO Gypsum</td> <td>1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Board</td> <td>1/2" FLAME CURB® Type X Gypsum Board</td> </tr> <tr> <td>Temple-Inland</td> <td>1/2" PABCO GLASS™ Sheathing Type X Gypsum Board</td> <td>1/2" GreenGlass Type X Gypsum Board</td> </tr> </table>			PROPRIETARY GYPSUM BOARD	1/2" FireBlock® Type X	1/2" FireBlock® Type X	American Gypsum Company LLC	1/2" FireBlock® Type X	1/2" FireBlock® Type X	CertainTeed Gypsum Inc.	1/2" GlasRoc® Sheathing Type X Gypsum Panels	1/2" GlasRoc® Sheathing Type X Gypsum Panels	Georgia Pacific Gypsum LLC	1/2" CertainTeed® Type X Gypsum Board	1/2" DensArmor Plus® Fireguard® Interior Panel	Lafarge North America Inc.	1/2" DensGlass® Fireguard® Sheathing	1/2" Weather Defense® Platinum Sheathing	National Gypsum Company	1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Sheathing	1/2" Firecheck® Type X Gypsum Sheathing	PABCO Gypsum	1/2" Gold Bond® Brand FIRE-SHIELD® Gypsum Board	1/2" FLAME CURB® Type X Gypsum Board	Temple-Inland	1/2" PABCO GLASS™ Sheathing Type X Gypsum Board	1/2" GreenGlass Type X Gypsum Board
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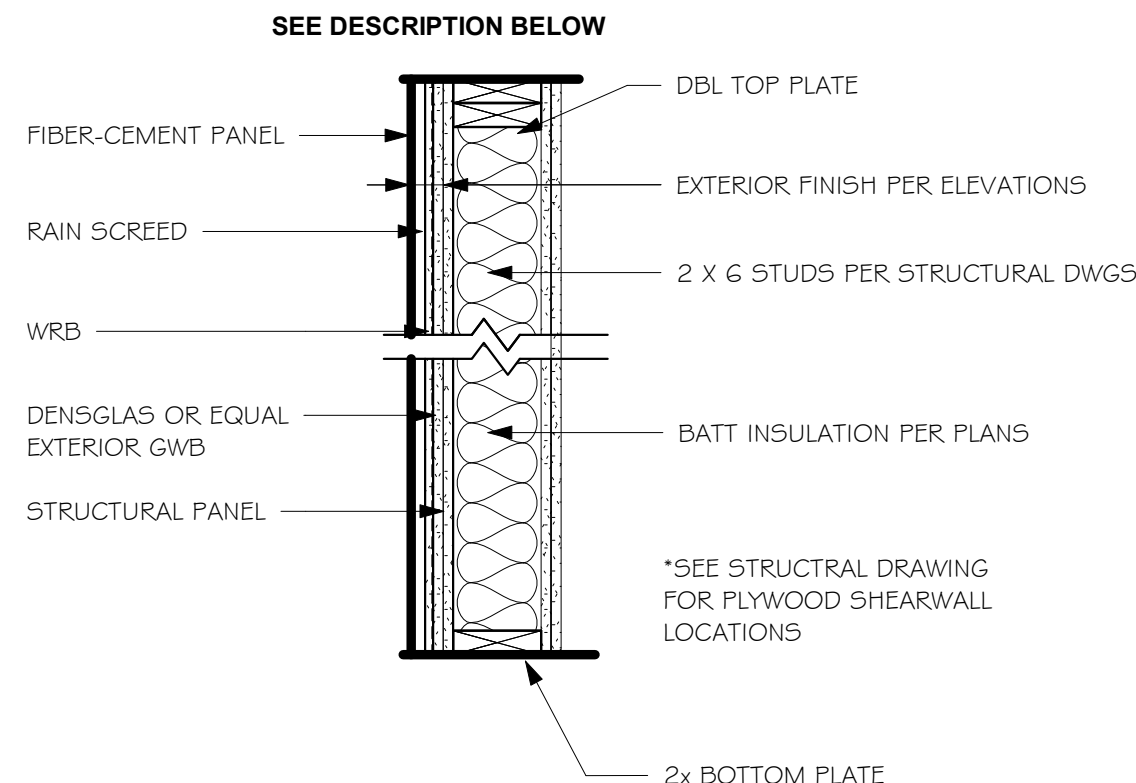
**CONCRETE WALL:  
IBC TABLE 721.1(2) ITEM: 4-1.1**



**WALL TYPE - J**

MATERIAL	ITEM NUMBER	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE-TO-FACE (inches)
4. Solid concrete	4-1.1	Siliceous aggregate concrete.	4
		Carbonate aggregate concrete.	3
		Sand/limestone aggregate concrete.	2
		Lightweight concrete.	1

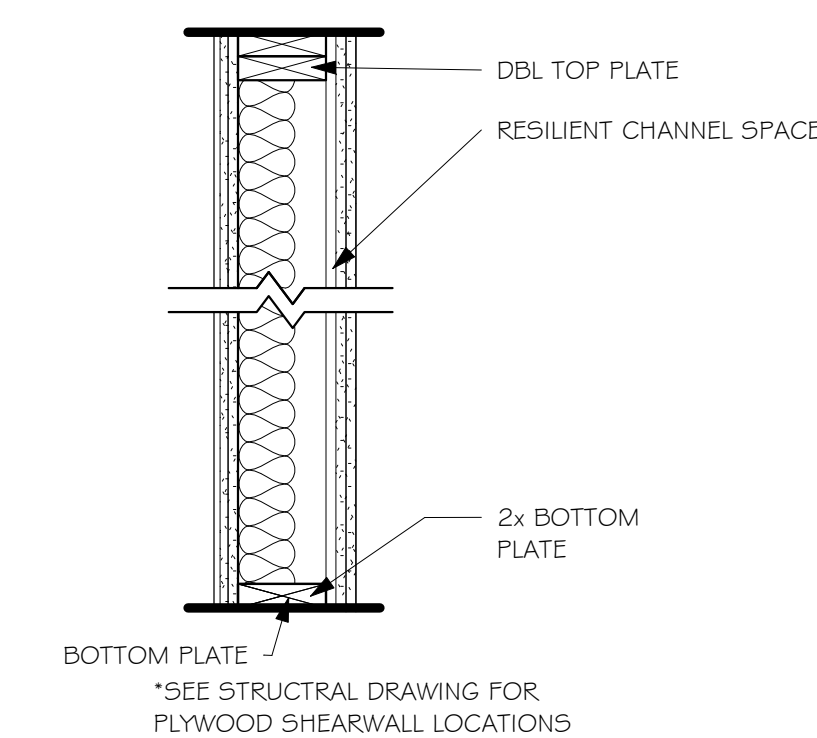
**TYP. EXTERIOR WALL (2HR):  
UL U308**



**WALL TYPE - H**

GA FILE NO. WP 5509	PROPRIETARY*	1 HOUR FIRE	55 TO 59 STC SOUND				
<b>GYPSUM WALLBOARD, WOOD STUDS</b>							
One layer 5/8" proprietary type X gypsum wallboard applied parallel or at right angles to each side of 2 x 4 wood studs 16" o.c. staggered 8" o.c. on 2 x 6 wood plates with 1-1/4" drywall screws 8" o.c. Minimum 3-1/2" glass fiber insulation, 0.80 pcf, woven in cavity. Joints staggered 24" on opposite sides.							
Sound tested with resilient channels on one side and 3-1/2" glass fiber insulation in stud cavity on both sides. (LOAD-BEARING)							
<table border="1"> <tr> <th>PROPRIETARY GYPSUM BOARD</th> <th>5/8" FireBlock® Type X Gypsum Board</th> </tr> <tr> <td>American Gypsum Company LLC</td> <td>5/8" FireBlock® Type X Gypsum Board</td> </tr> </table>				PROPRIETARY GYPSUM BOARD	5/8" FireBlock® Type X Gypsum Board	American Gypsum Company LLC	5/8" FireBlock® Type X Gypsum Board
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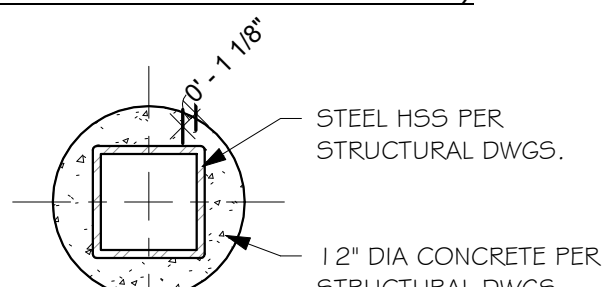
**PARTY WALL  
TYP. 1 HR WALL -LOAD BEARING  
GA FILE#: WP 5509  
55 TO 59 STC SOUND**



**WALL TYPE - K**

GA FILE NO. WP 5509	PROPRIETARY*	1 HOUR FIRE	55 TO 59 STC SOUND				
<b>GYPSUM WALLBOARD, WOOD STUDS</b>							
One layer 5/8" proprietary type X gypsum wallboard applied parallel or at right angles to each side of 2 x 4 wood studs 16" o.c. staggered 8" o.c. on 2 x 6 wood plates with 1-1/4" drywall screws 8" o.c. Minimum 3-1/2" glass fiber insulation, 0.80 pcf, woven in cavity. Joints staggered 24" on opposite sides.							
Sound tested with resilient channels on one side and 3-1/2" glass fiber insulation in stud cavity on both sides. (LOAD-BEARING)							
<table border="1"> <tr> <th>PROPRIETARY GYPSUM BOARD</th> <th>5/8" FireBlock® Type X Gypsum Board</th> </tr> <tr> <td>American Gypsum Company LLC</td> <td>5/8" FireBlock® Type X Gypsum Board</td> </tr> </table>				PROPRIETARY GYPSUM BOARD	5/8" FireBlock® Type X Gypsum Board	American Gypsum Company LLC	5/8" FireBlock® Type X Gypsum Board
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American Gypsum Company LLC	5/8" FireBlock® Type X Gypsum Board						

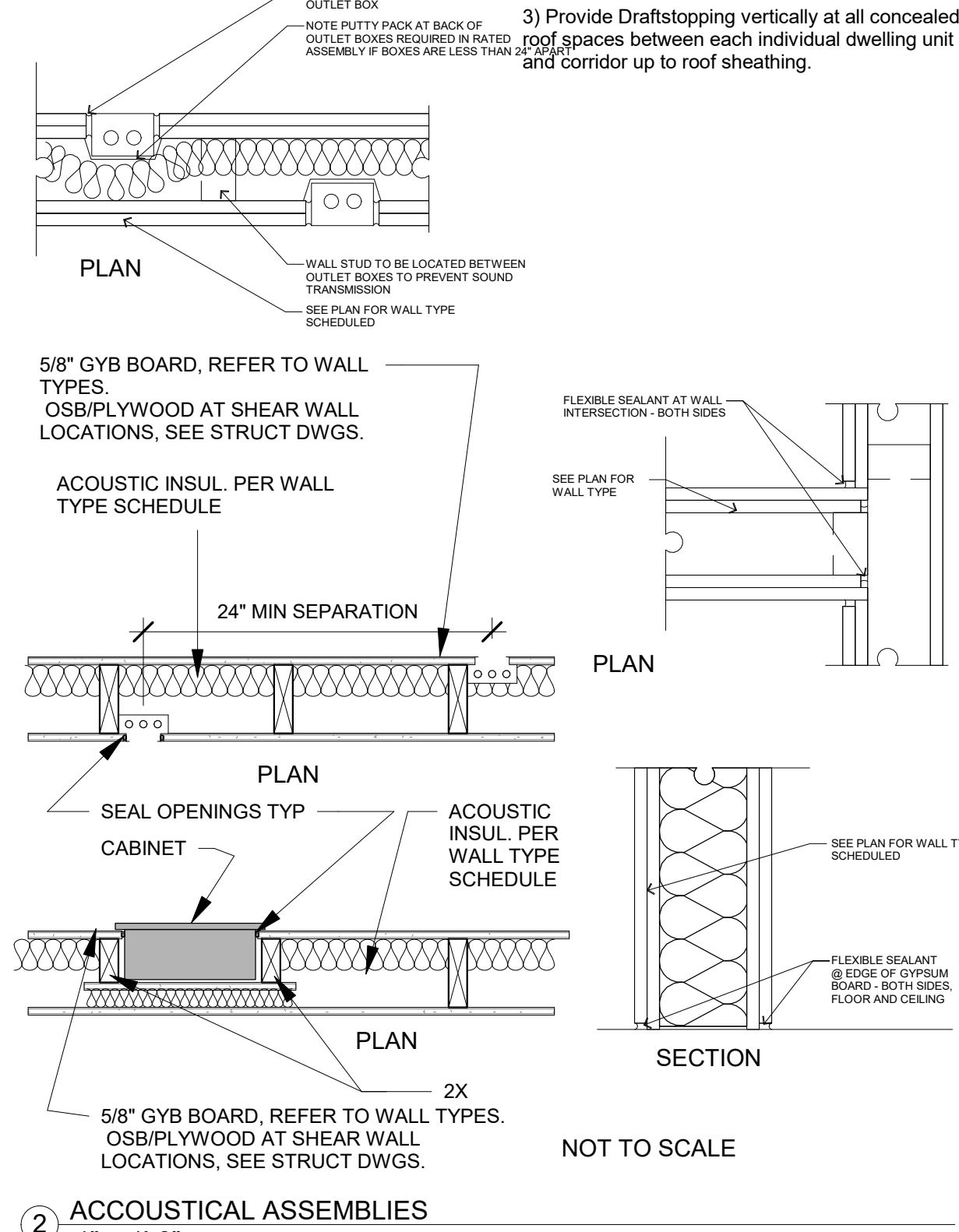
**STEEL COLUMN IN CONCRETE  
(FREE STANDING IN GARAGE)**



STRUCTURAL PARTS TO BE PROTECTED	ITEM NUMBER	INSULATING MATERIAL USED	MINIMUM THICKNESS OF INSULATING MATERIAL FOR THE FOLLOWING FIRE-RESISTANCE PERIODS (inches)
1-1.1	Carbonate, lightweight and sand-lightweight aggregate concrete, members 6" x 6" or greater (not including unbraced, granite and siliceous gravel).	1 1/2" DIA CONCRETE PER STRUCTURAL DWGS	1 hour
			2 hours
			3 hours
			4 hours

**NOTE: PROVIDE 1-HR FIRE PROTECTIVE COATING FOR ANY STEEL COLUMN OR PORTION OF STEEL COLUMN NOT PROTECTED AS SHOWN ABOVE.**

**STL. COL. A**



**STEEL COLUMN IN GWB  
(FREE STANDING ICOMMON SPACE - IN PERIMETER WALLS AT GARAGE)**

GA FILE NO. CM 1451	GENERIC	1 HOUR FIRE						
<b>GYPSUM WALLBOARD, STEEL COLUMN COVER</b>								
Base layer 1/2" type X gypsum wallboard applied around T54x4x0.188 tube steel column and held in place with paper marking tape. Second layer either 24 ga. galvanized steel column cover consisting of two L-shaped sections with lock sheet steel joints or 22 ga. galvanized steel column covers consisting of two L-shaped sections with lap joints fastened with No. 3x1/2" sheet metal screws 12" o.c. Face layer 1/2" type X gypsum wallboard applied without horizontal joints to column cover with 1" Type S drywall screws 8" o.c. spaced 1" from vertical edges. Metal cornerbead applied to all corners with 1" Type S drywall screws 12" o.c. in each length.								
<table border="1"> <tr> <th>PROPRIETARY GYPSUM BOARD</th> <th>1/2" FireBlock® Type X</th> <th>1/2" FireBlock® Type X</th> </tr> <tr> <td>American Gypsum Company LLC</td> <td>1/2" FireBlock® Type X</td> <td>1/2" FireBlock® Type X</td> </tr> </table>			PROPRIETARY GYPSUM BOARD	1/2" FireBlock® Type X	1/2" FireBlock® Type X	American Gypsum Company LLC	1/2" FireBlock® Type X	1/2" FireBlock® Type X
PROPRIETARY GYPSUM BOARD	1/2" FireBlock® Type X	1/2" FireBlock® Type X						
American Gypsum Company LLC	1/2" FireBlock® Type X	1/2" FireBlock® Type X						

MATERIAL	ITEM NUMBER	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE-TO-FACE (inches)
4. Solid concrete	4-1.1	Siliceous aggregate concrete.	4
		Carbonate aggregate concrete.	3
		Sand/limestone aggregate concrete.	2
		Lightweight concrete.	1

**NOTE: PROVIDE 1-HR FIRE PROTECTIVE COATING FOR ANY STEEL COLUMN OR PORTION OF STEEL COLUMN NOT PROTECTED AS SHOWN ABOVE.**

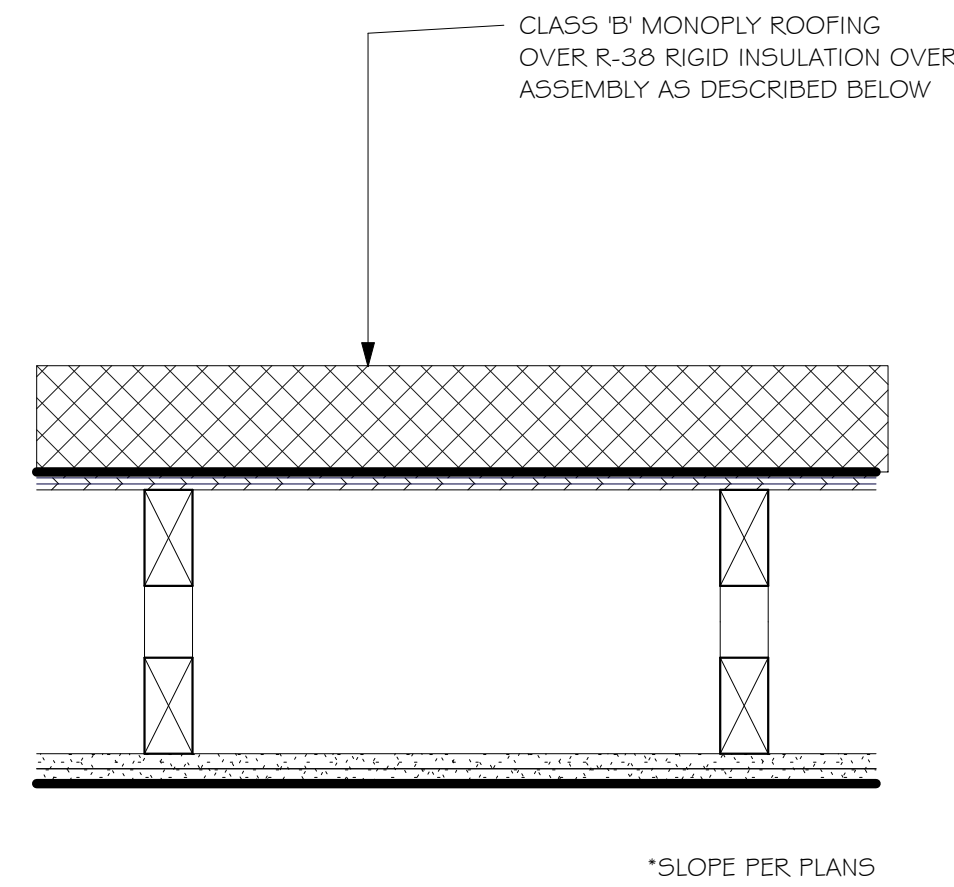
**STL. COL. B**

**Dale Sweeney ARCHITECT**  
1727  
1515 143rd Place SE  
Bellevue, WA 98006

NO.	DATE	Revision Description	Author	Checker	RVSD:
1	9/8/19	City Comments	Dale Sweeney	Dale Sweeney	

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

**WALL ASSEMBLIES**  
SHEET NO. **A900**



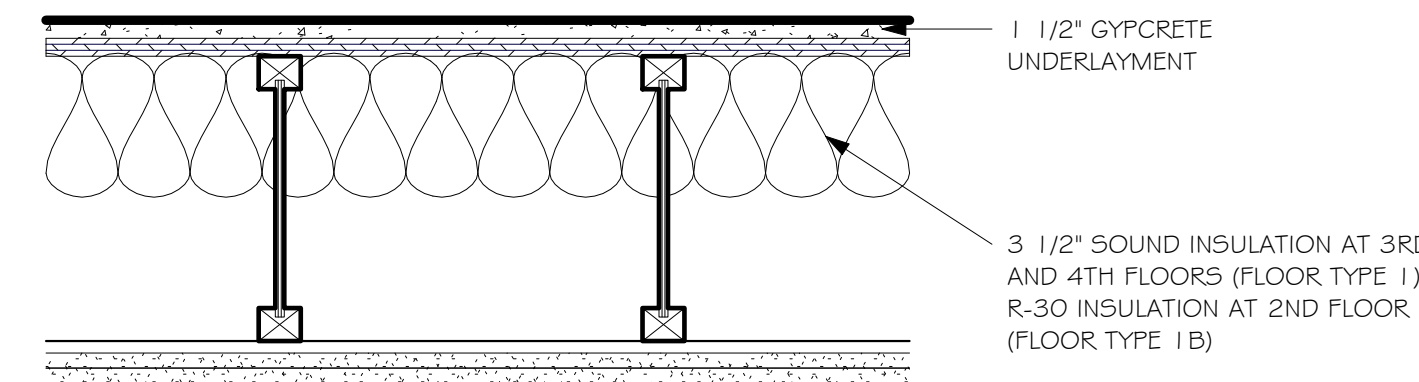
**ROOF/CLG TYPE - RA**

ROOF ASSEMBLY - IBC 721.1(3) 21

Wood joists, wood I-joists, floor trusses and flat or pitched roof trusses spaced a maximum 24" o.c. with 1/2" wood structural panels with exterior glue applied at right angles to top of joist or top chord of trusses with 8d nails. The wood structural panel thickness shall be not less than nominal 1/2" nor less than required by Chapter 23.

Base layer 5/8" Type X gypsum wallboard applied at right angles to joist or truss 24" o.c. with 1 1/8" Type S or Type W drywall screws 24" o.c. Face layer 5/8" Type X gypsum wallboard or veneer base applied at right angles to joist or truss through base layer with 1 7/8" Type S or Type W drywall screws 12" o.c. at joints and intermediate joist or truss. Face layer Type G drywall screws placed 2" back on either side of face layer end joints, 12" o.c.

TYPICAL 1-HR. WD. FLOOR  
GA FILE #: FC-5011  
STC 60-64



**FLOOR TYPE - 1**  
**FLOOR TYPE - 1B**  
**R-30 BATT INSULATION**

GA FILE NO. FC 5011

PROPRIETARY\*

1 HOUR FIRE

60 to 64 STC SOUND

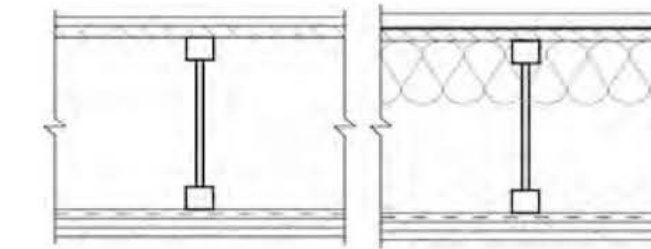
WOOD I-JOISTS, WOOD STRUCTURAL PANELS, GYPSUM FLOOR TOPPING, RESILIENT CHANNELS, GLASS FIBER BATT OR LOOSE FILL INSULATION, GYPSUM WALLBOARD

Base layer 1/2" proprietary type X gypsum wallboard or gypsum veneer base applied at right angles to resilient furring channels 24" o.c. (16" o.c. when insulation is used) with 1" Type S drywall screws 16" o.c. Gypsum board end joints located midway between continuous channels and attached with screws 8" to additional pieces of channel 60" long located 3" back on either side of end joint. Resilient channels applied at right angles to minimum 10" deep wood I joists spaced a maximum of 19" o.c. with 1 1/4" Type S drywall screws. Face layer 1/2" proprietary type X gypsum wallboard or gypsum veneer base applied at right angles to resilient furring channels 19/8" Type S drywall screws 8" o.c. and 1 1/2" Type G screws 8" o.c. at the butt joints located mid-span between the resilient channels. Glass fiber insulation secured to subfloor or loose fill insulation applied directly over gypsum board. Wood I joists supporting 19/32" wood structural panel subfloor applied at right angles to joists with construction adhesive and 6d ring shank nails 12" o.c. Minimum 1/2" proprietary gypsum floor topping applied over subfloor.

STC rated with I joists spaced 24" o.c., 3 1/2" glass fiber insulation in joist spaces, 3/4" proprietary gypsum floor topping poured over 1/4" proprietary sound reduction mat, and with finish flooring of sheet vinyl, engineered wood laminate, and ceramic tile. (STC 64 when sheet vinyl or engineered wood laminate is applied to floor; STC 66 when tested with ceramic tile applied to floor.)

PROPRIETARY GYPSUM COMPONENTS

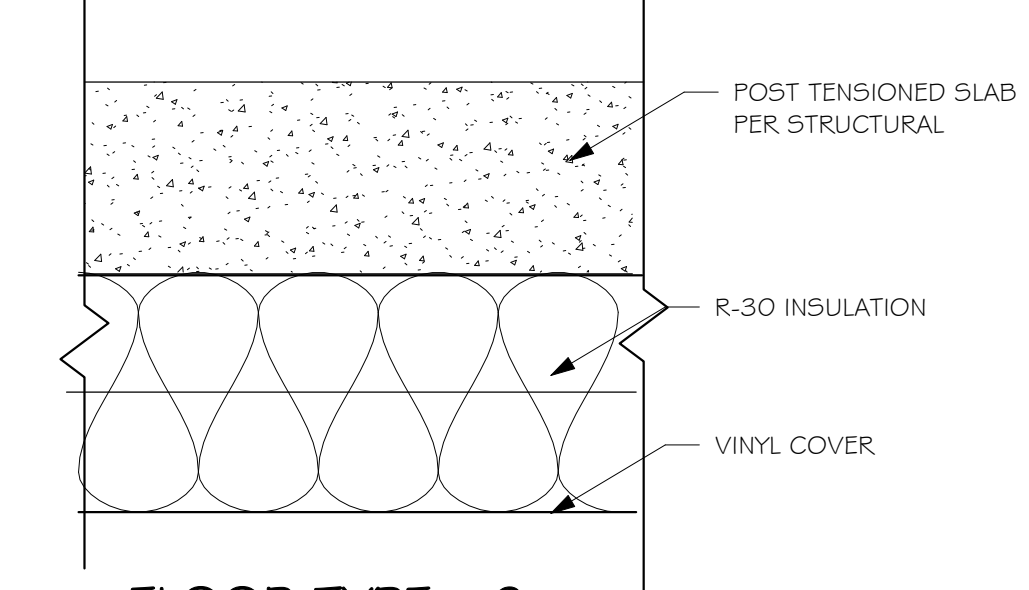
United States Gypsum Company - 1/2" SHEETROCK® Brand FIRECODE® C Core Gypsum Panels  
NOTE: R-30 INSULATION AT LEVEL 2  
LEVELROCK® Brand Floor Underlayment



Approx. Ceiling Weight: 3 psf  
Fire Test: UL R1319, 05NK04589, 2-4-05; UL R1319, 05NK09496, 3-31-05; UL Design L570  
Sound Test: RAL OT03-05, 4-22-03; RAL OT03-07, 4-29-03; RAL OT03-09, 6-18-03 (58 sheet vinyl); RAL OT03-06, 4-22-03; (62 engineered wood laminate) RAL OT03-08, 4-29-03; (54 ceramic tile) RAL OT03-10, 6-18-03  
IIC & Test:

POST TENSION DECK ABOVE BASEMENT  
IBC 721.1.2(3)#1

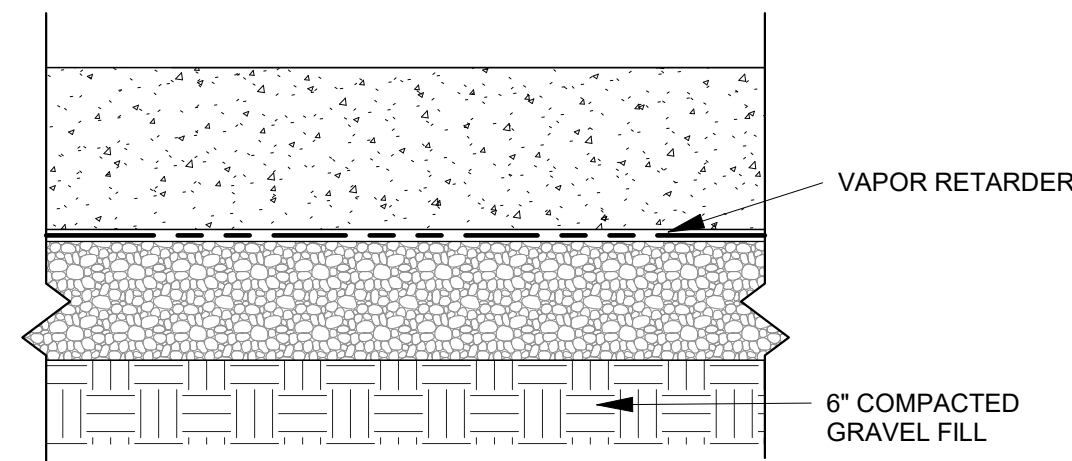
2 HOUR-RATED, FLOOR ASSEMBLY



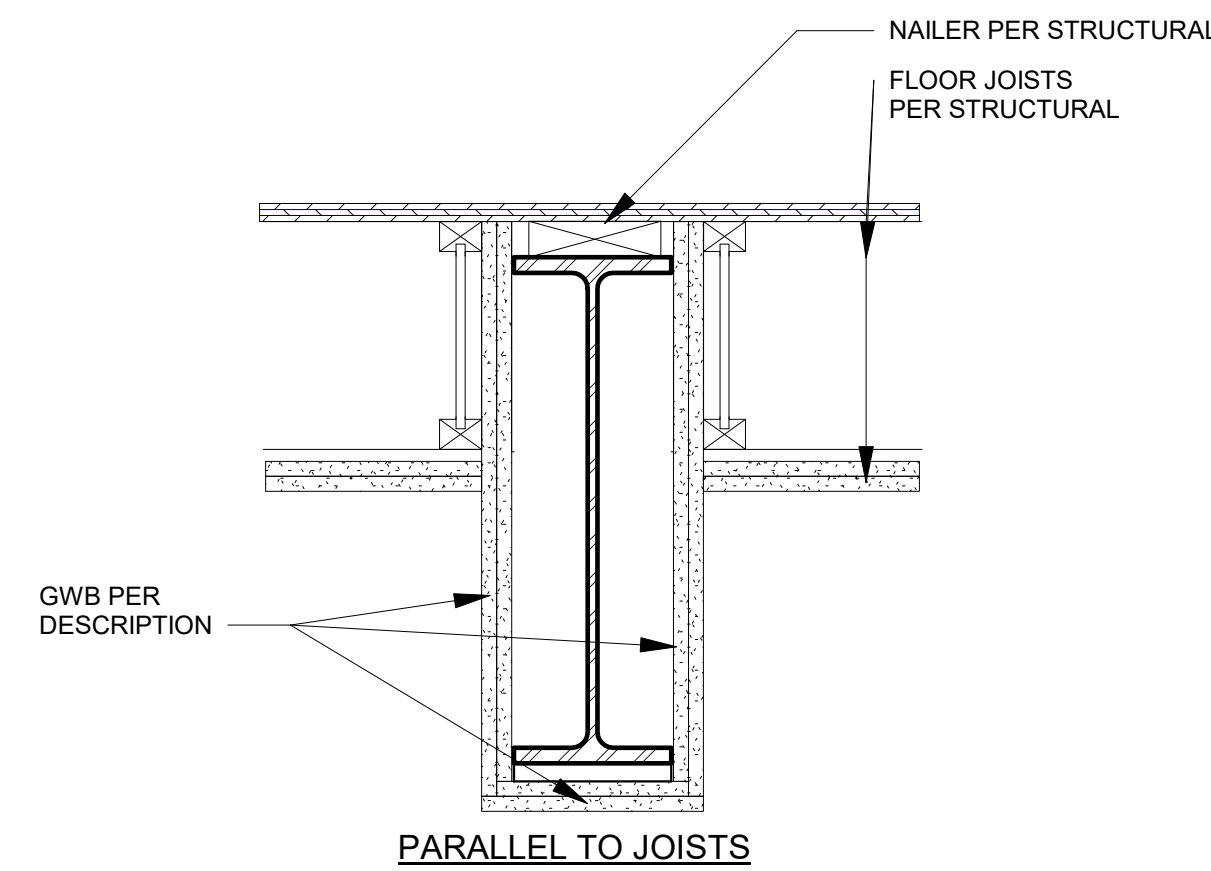
**FLOOR TYPE - 2**

FLOOR OR ROOF CONSTRUCTION	ITEM NUMBER	CEILING CONSTRUCTION	THICKNESS OF FLOOR OR ROOF SLAB (inches)			MINIMUM THICKNESS OF CEILING (inches)		
			4 hours	3 hours	2 hours	4 hours	3 hours	2 hours
5. Reinforced concrete	5-1.1	Slab with suspended ceiling of vermiculite gypsum plaster over metal lath attached to 3/4" cold-rolled channels spaced 12" on center. Ceiling located 6" minimum below joists.	3	2	—	—	1	3/4
	5-2.1	3/8" Type X gypsum wallboard attached to 0.018 inch (No. 25 carbon sheet steel gage) by 7/8" deep by 2 1/2" hat-shaped galvanized steel channels with 1" long No. 6 screws. The channels are spaced 24" on center, span 35" and are supported along their length at 33" intervals by 0.033" (No. 21 galvanized sheet gage) galvanized steel flat strap hangers having formed edges that engage the lips of the channel. The strap hangers are attached to the side of the concrete joists with 3/4" by 1 1/2" long power-driven fasteners. The wallboard is installed with the long dimension perpendicular to the channels. End joints occur on channels and supplementary channels are installed parallel to the main channels, 12" each side, at end joint occurrences. The finished ceiling is located approximately 12" below the soffit of the floor slab.	—	—	2 1/2	—	—	3/8

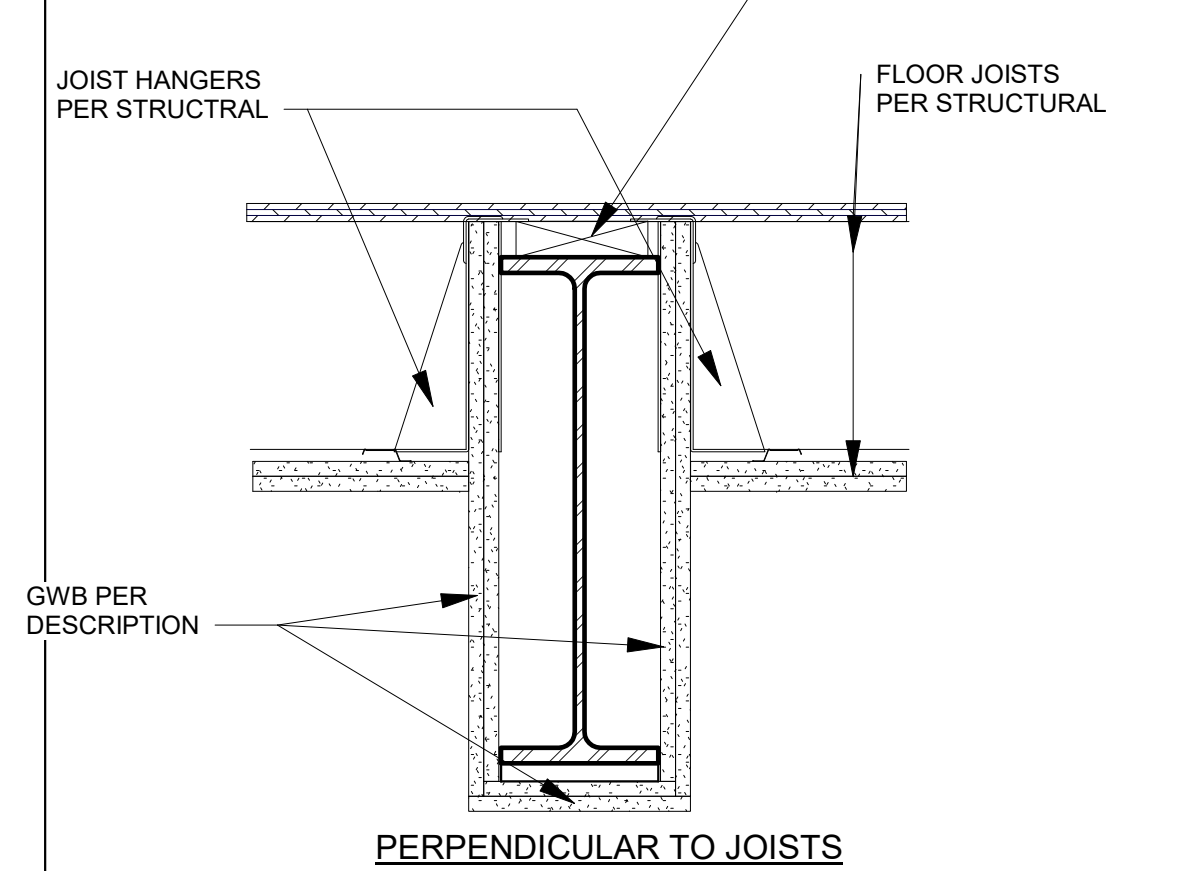
TYPICAL SLAB ON GRADE  
NON-RATED, FLOOR ASSEMBLY



**FLOOR TYPE - 3**



**BM-2**



PERPENDICULAR TO JOISTS

**BEAMS, GIRDERS, AND TRUSSES, NONCOMBUSTIBLE**

GA FILE NO. BM 1137

PROPRIETARY\*

1 HOUR FIRE

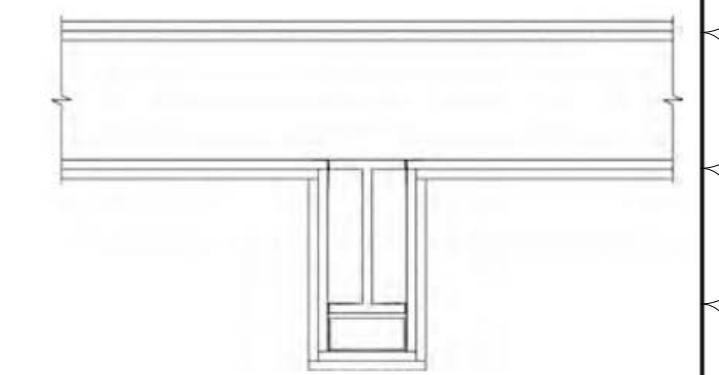
STEEL FRAME, GYPSUM WALLBOARD

Base layer 1/2" proprietary type X gypsum wallboard applied to beam cage with 1" Type S-12 drywall screws 12" o.c. Face layer 1/2" proprietary type X gypsum wallboard applied to beam cage with 1 1/8" Type S-12 drywall screws 12" o.c. Joints offset from base layer joints.

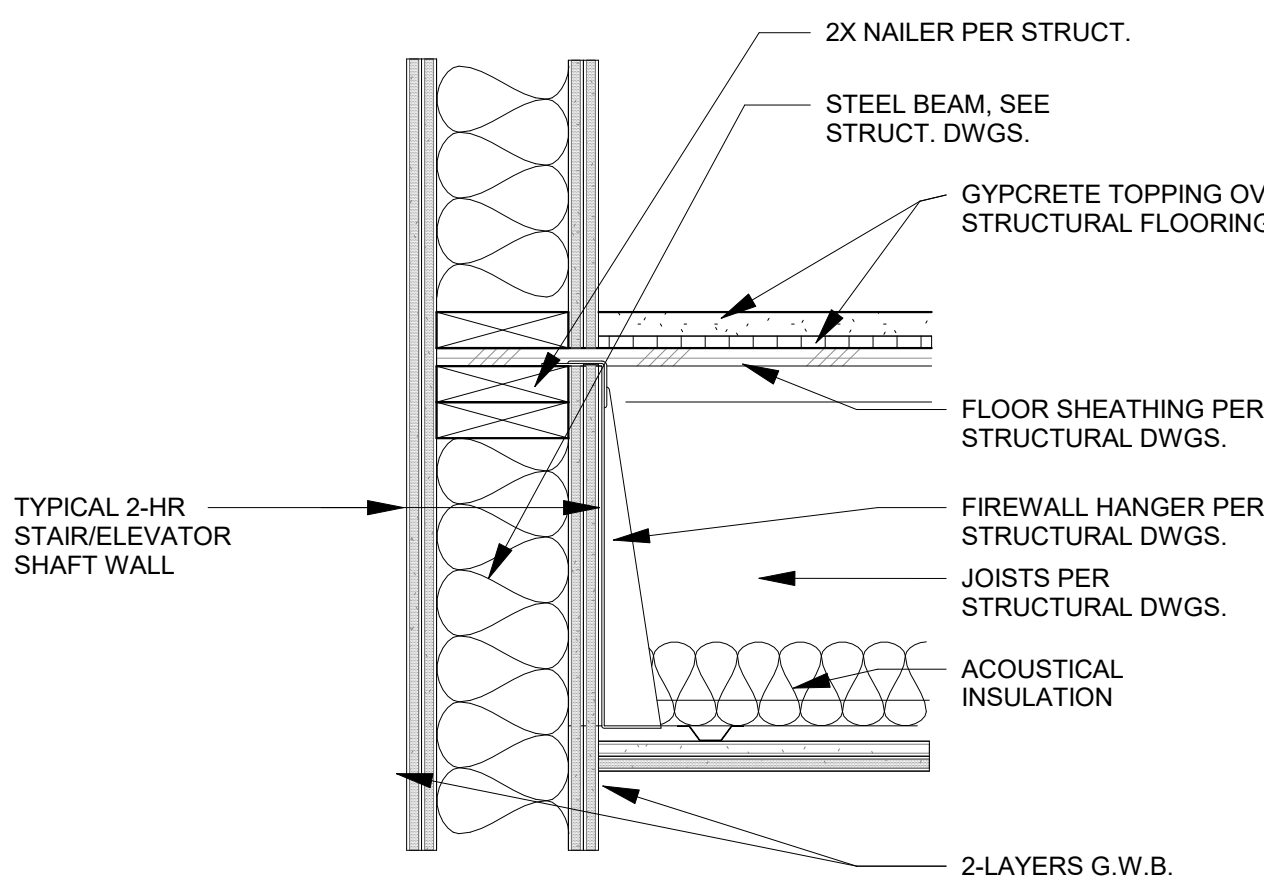
Beam cage fabricated from 24 ga 7/8" x 1 1/8" steel angles screw attached to steel joists at beam top flange and 25 ga 2 1/2" steel runners hooked over beam lower flange and supporting 1 1/8" steel studs 24" o.c. Minimum beam size W8x15. (One hour unrestrained beam.)

PROPRIETARY GYPSUM BOARD

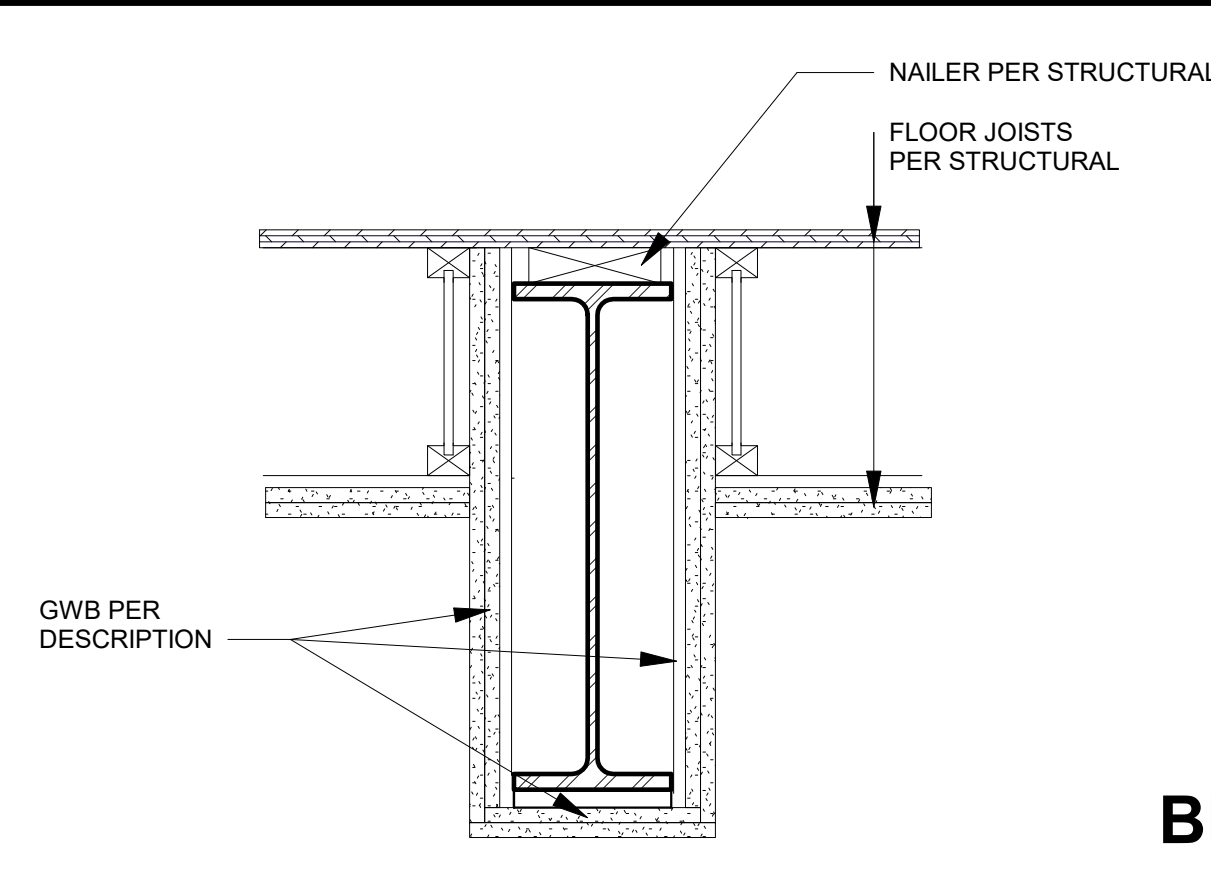
American Gypsum Company LLC - 1/2" FireBloc® Type C  
CertainTeed Gypsum Inc. - 1/2" CertainTeed® Type C Gypsum Board  
Georgia Pacific Gypsum LLC - 1/2" ToughRock® Fireguard C® Gypsum Board  
Lafarge North America Inc. - 1/2" Firecheck® Type C  
National Gypsum Company - 1/2" Gold Bond® Brand FIRE-SHIELD C™ Gypsum Board  
PABCO Gypsum - 1/2" FLAME CURB® Super C™ Gypsum Board  
Temple-Inland - 1/2" TG-C  
United States Gypsum Company - 1/2" SHEETROCK® Brand FIRECODE® C Core Gypsum Panels



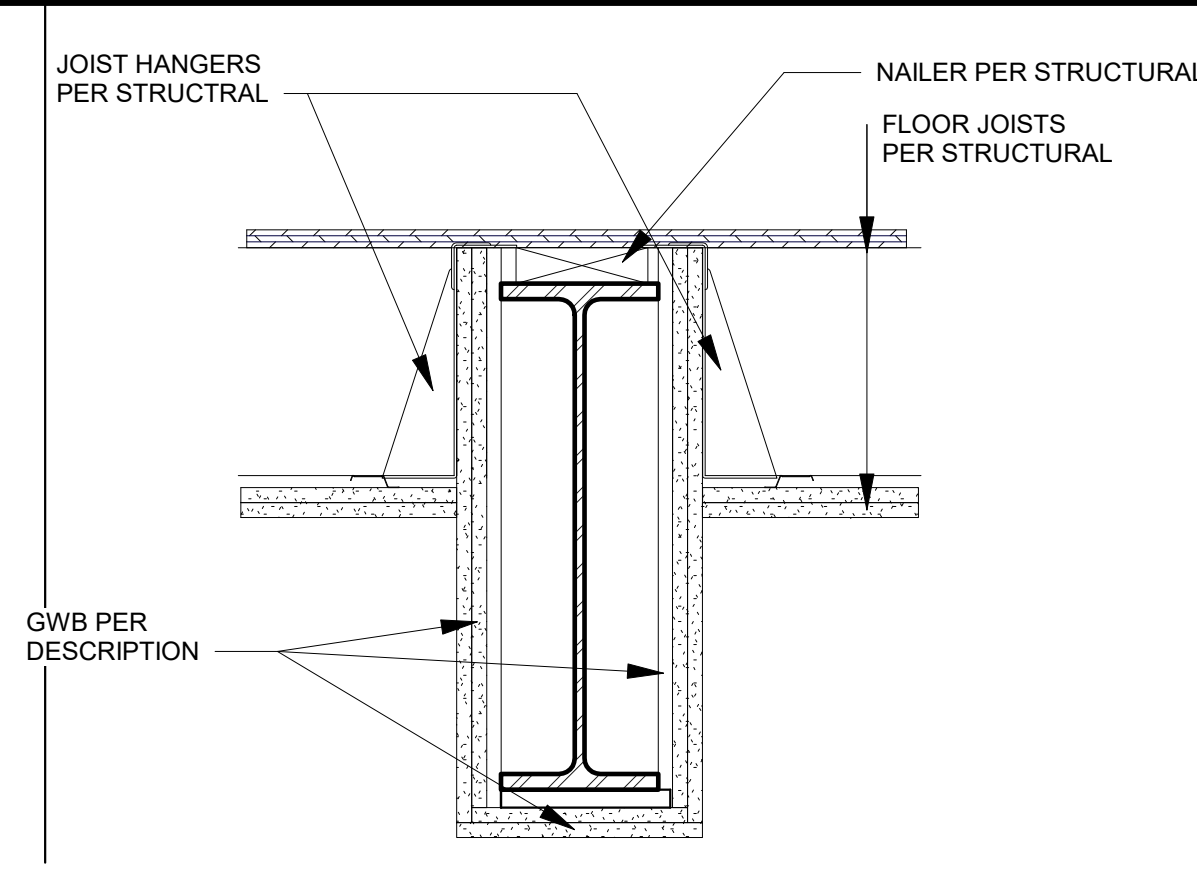
Fire Test: UL R1319-133, 7-16-75; Based on UL R3660-7 & -8, 11-12-87; UL Design L524



② FIREWALL HANGER  
1 1/2" = 1'-0"



**BM-3**



PERPENDICULAR TO JOISTS

**STEEL BEAM PROTECTION**

GA FILE NO. BM 2120

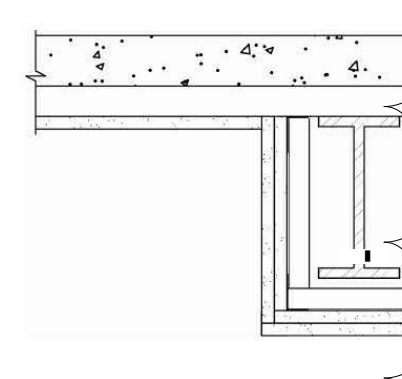
GENERIC

2 HOUR FIRE

STEEL FRAME, GYPSUM WALLBOARD

Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied to beam cage with 1-1/4" Type S drywall screws 16" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied to beam cage with 1-3/4" Type S drywall screws 8" o.c.

Beam cage fabricated from horizontally installed steel angles (25 ga. steel having 1" and 2" legs) located not less than 1/2" from beam flanges. 1" legs of the upper angles secured to steel deck units with 1/2" Type S pan head screws 12" o.c. "U" shaped brackets formed of 25 ga. "U" shaped steel channels (11/16" wide with 1" legs) 24" o.c. suspended from upper angles with 1/2" Type S pan head screws and supported 1" x 2" angles at lower corners attached to brackets with 1/2" Type S pan head screws. Outside corners of gypsum board protected by 0.020" thick metal cornerbeads crimped or nailed. Minimum beam size W8x24. (Two-hour restrained or unrestrained beam.)



Fire Test: UL R4024.5, 9-14-00; UL Design L524 (SHEET NO. ULC Design O501)

**ROOF-CEILING-FLOOR ASSEMBLIES**

**A901**

**TP HOME 22 UNIT  
APTS. 2152  
TP Home LLC  
2152 N 185TH ST.**

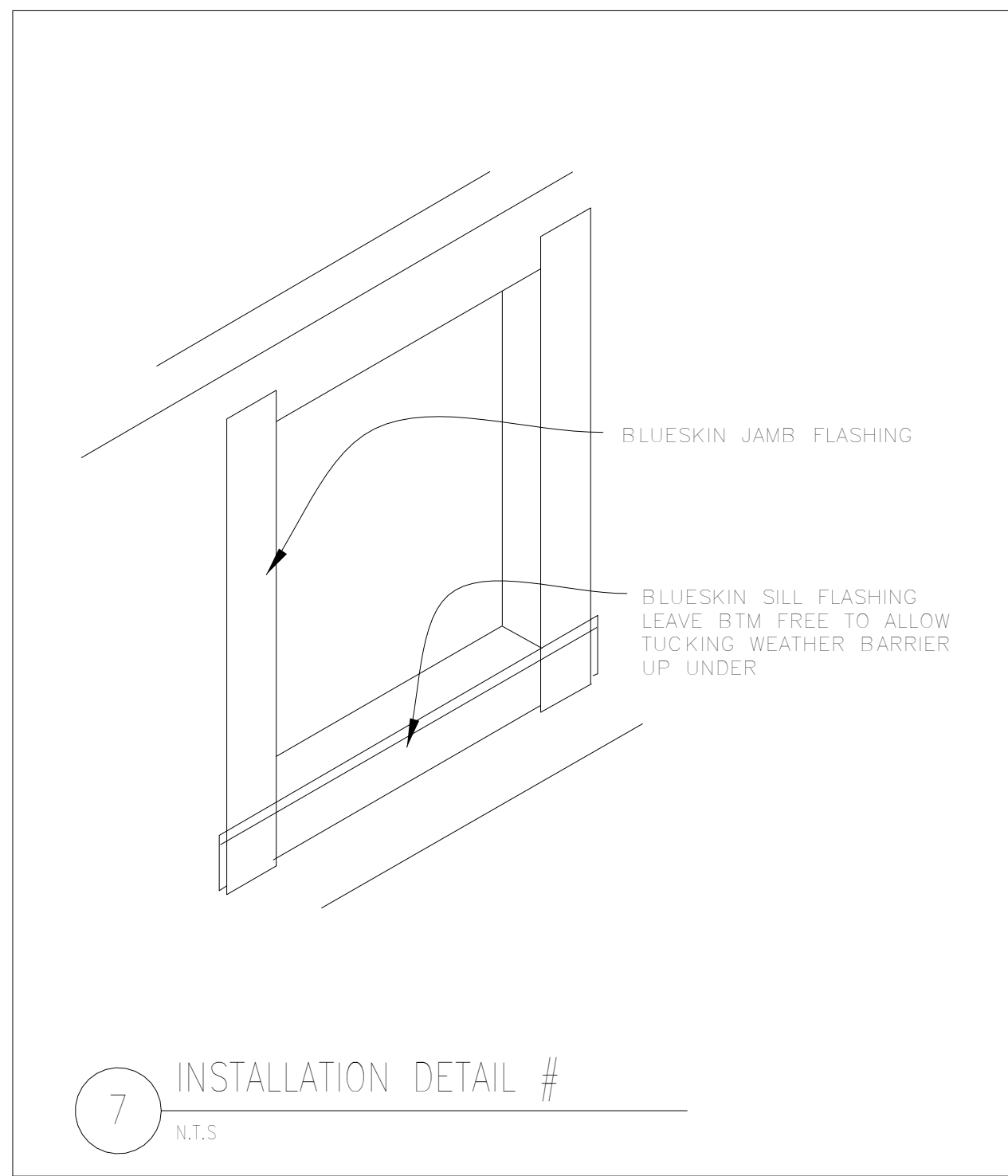
**Dale Sweeney**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLN-001  
DATE: 6/26/2017  
DWN BY: Author  
CHKD BY: Checker  
RNSD:

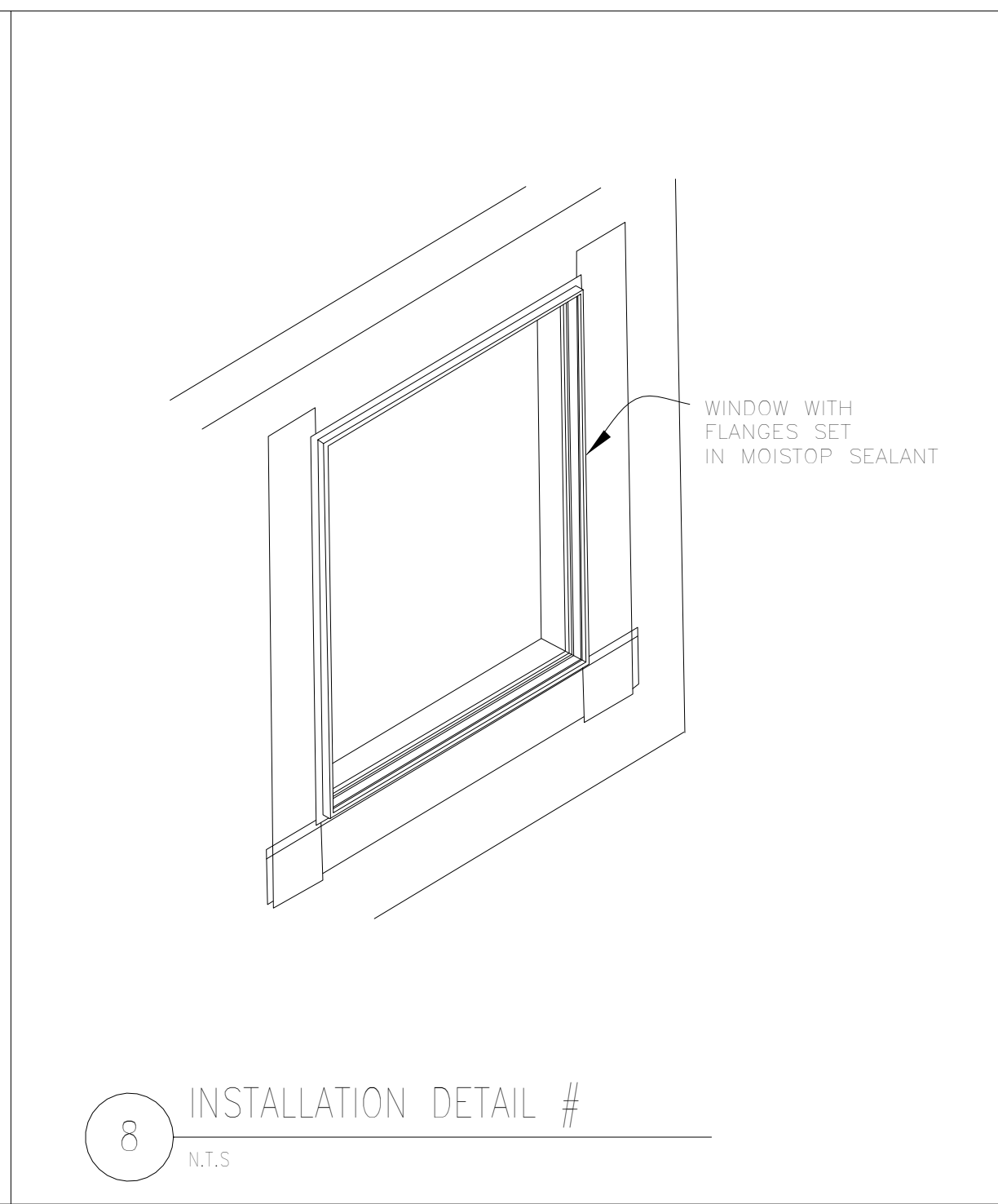
REVISIONS  
Revision Description  
City Comments

NO. DATE  
1 9/8/19

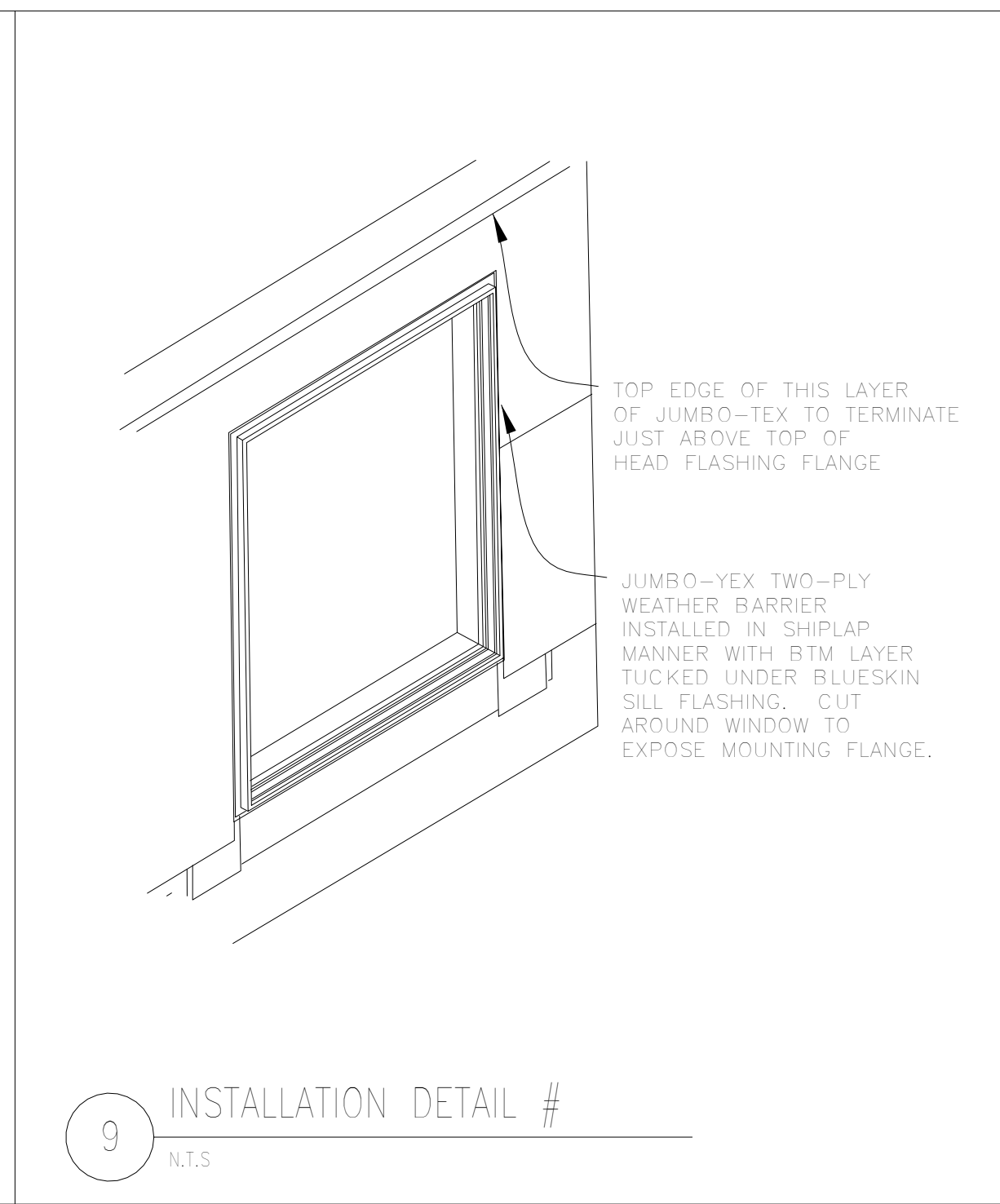
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2/15/2021 12:47:47 PM



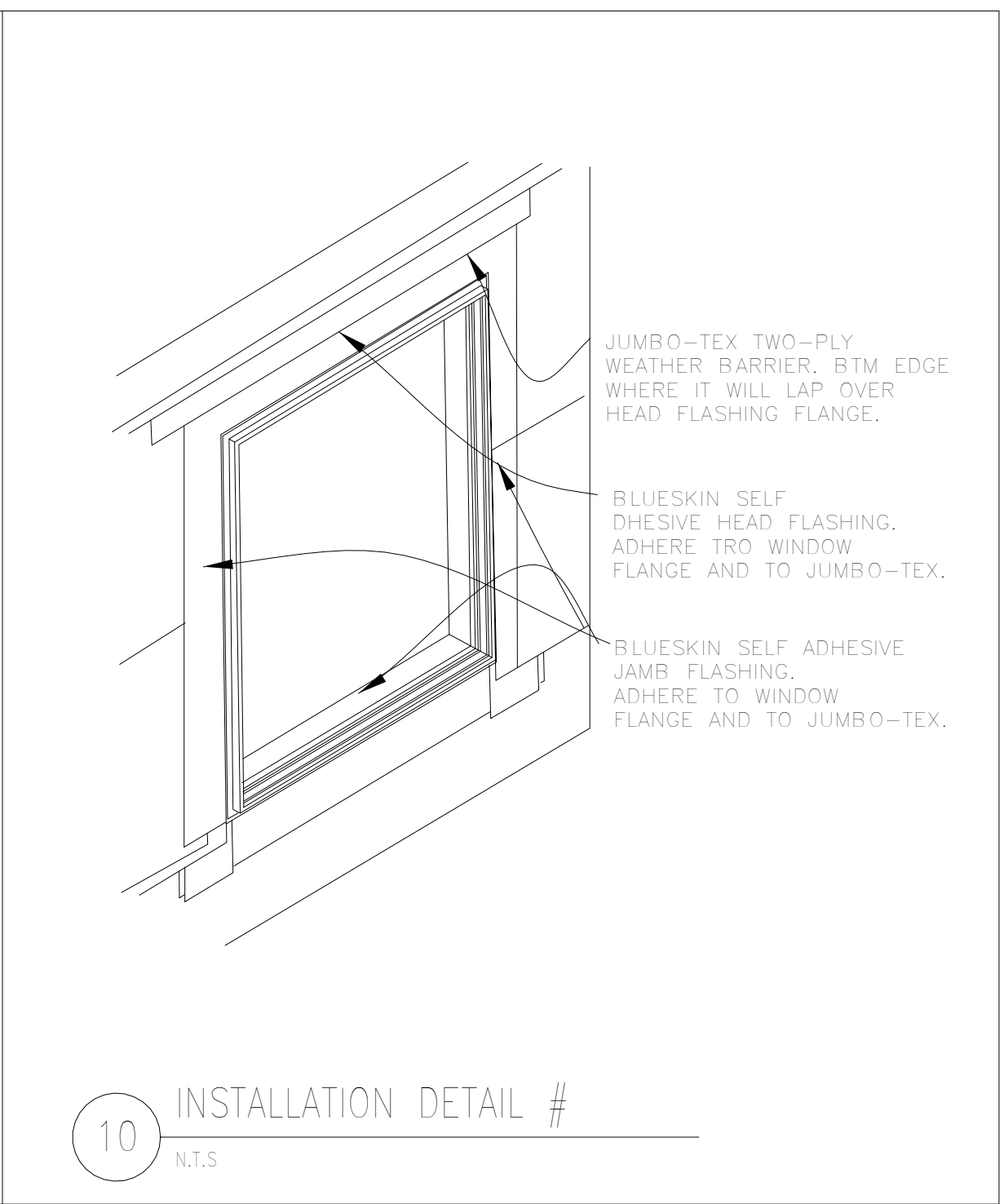
7 INSTALLATION DETAIL #  
N.T.S.



8 INSTALLATION DETAIL #  
N.T.S.

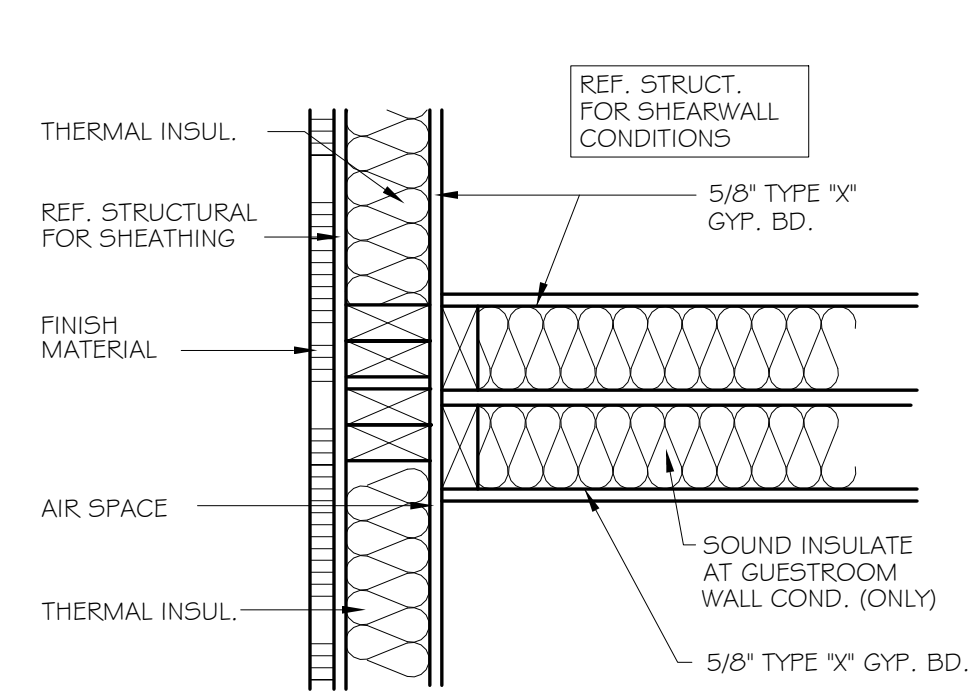


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N.T.S.

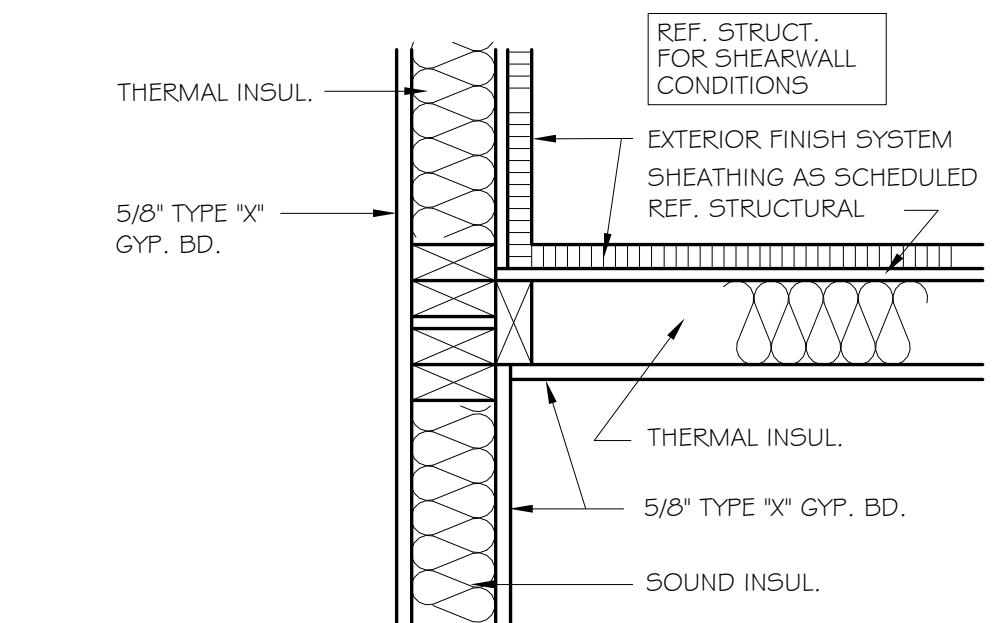


10 INSTALLATION DETAIL #  
N.T.S.

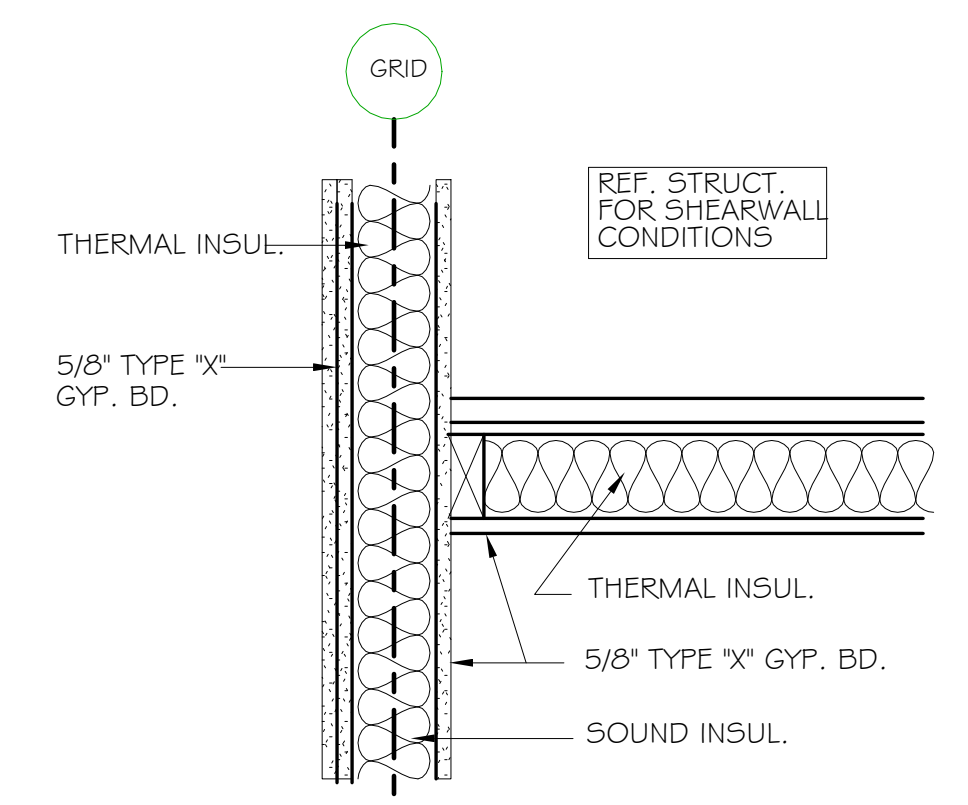
20 WINDOW FLASHING INSULATION DETAIL  
SCALE: 1" = 1'-0"



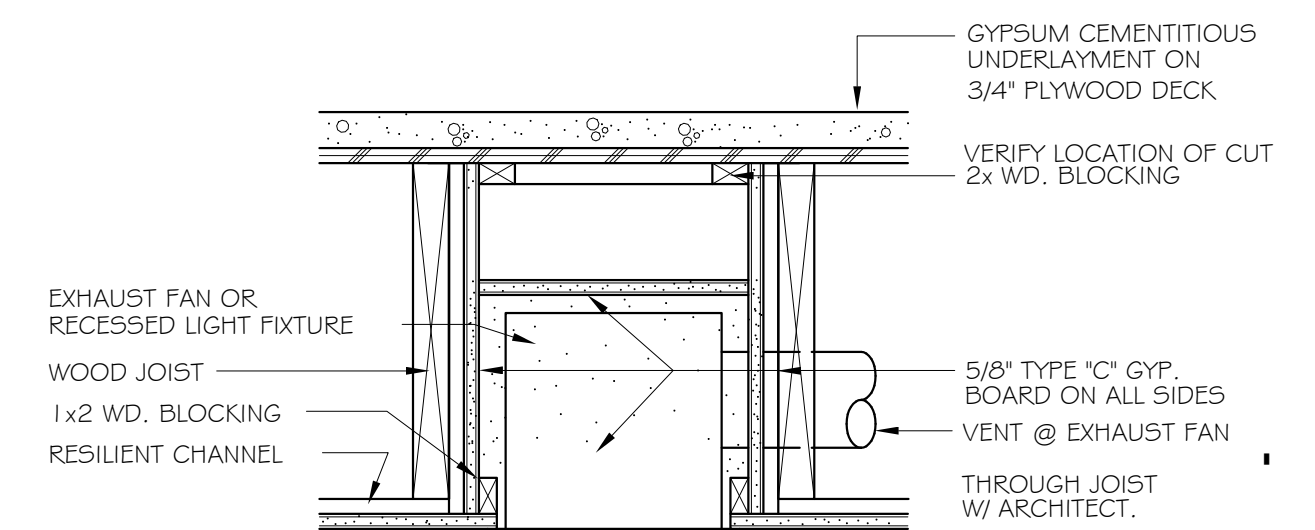
3 WALL AT INT. CORNER  
SCALE: 1 1/2" = 1'-0"




2 EXT. INSIDE CORNER  
SCALE: 1 1/2" = 1'-0"



4 DET AT PARTY WALL  
1 1/2" = 1'-0"



1 ENCL. AROUND REC. LIGHT FIXT.  
SCALE: 1 1/2" = 1'-0"



**Dale Sweeney**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO. SHRLM-001	DATE: 6/26/2017	DWN. BY: CDP	CHKD BY:
NO.	DATE	REVISION Description	RVS'D:

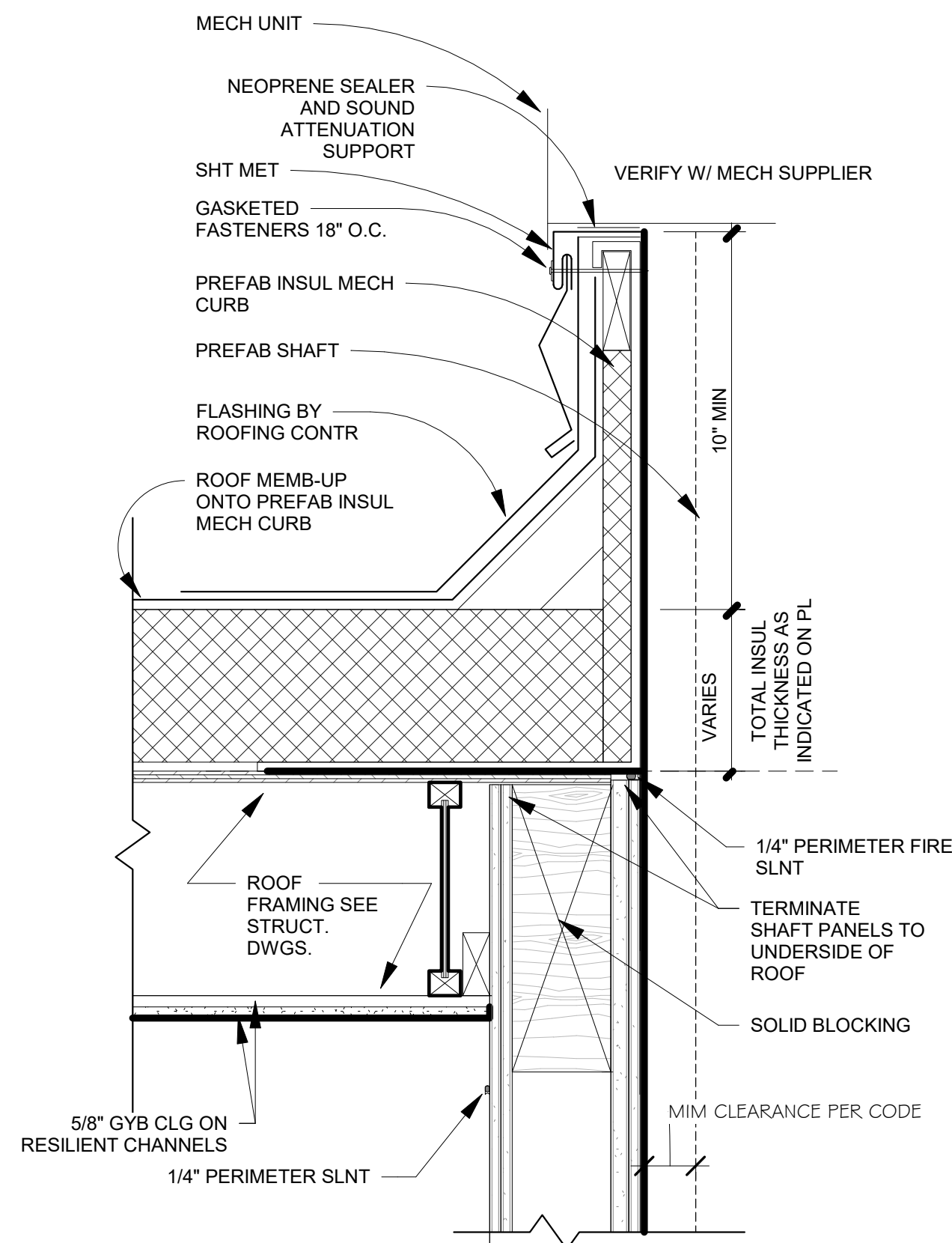
**TP HOME 22 UNIT**  
**APTS. 2152**  
**TP Home LLC**  
**2152 N 185TH ST.**

**DETAILS**

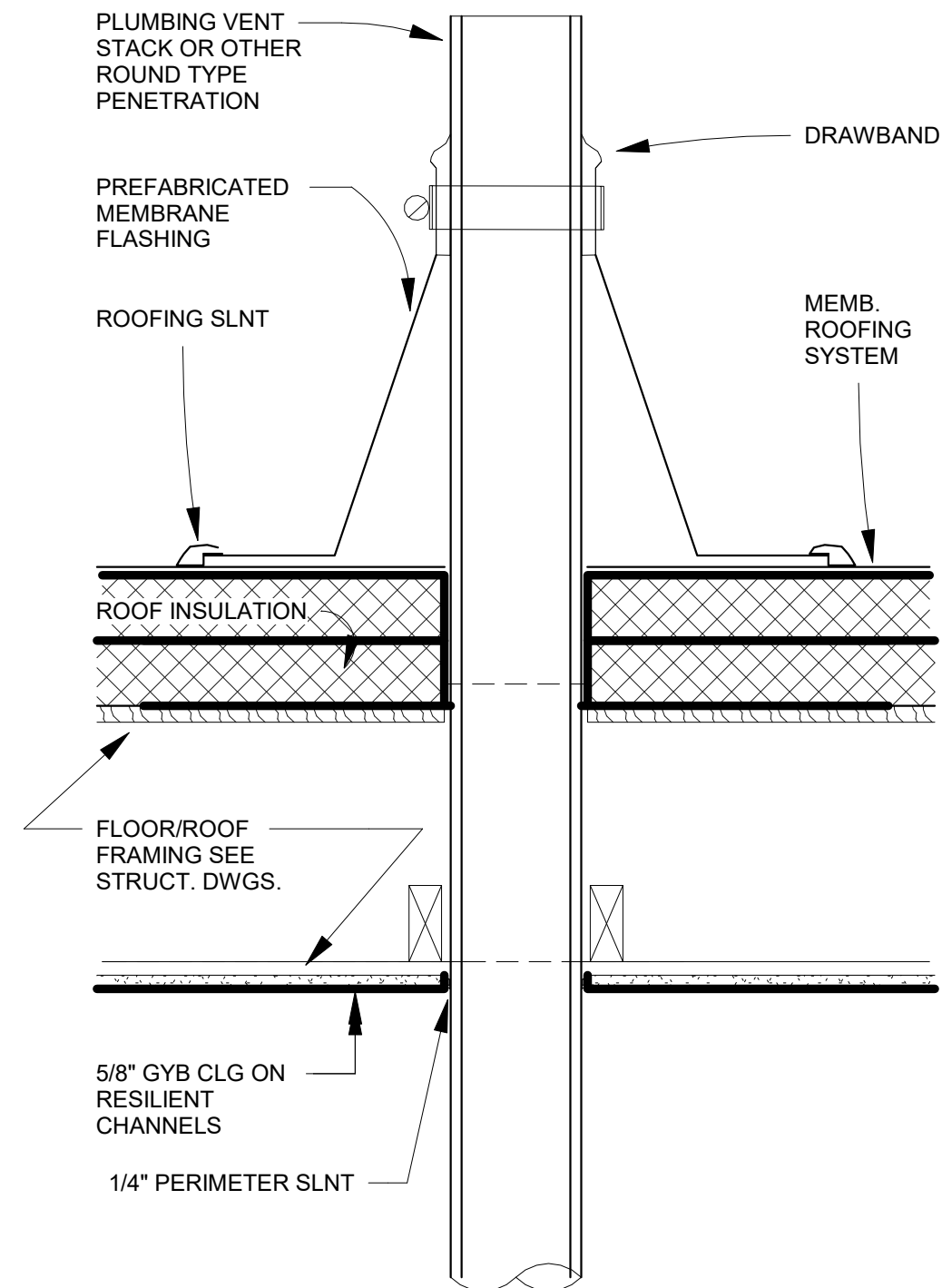
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**SHEET NO.**  
**A902**

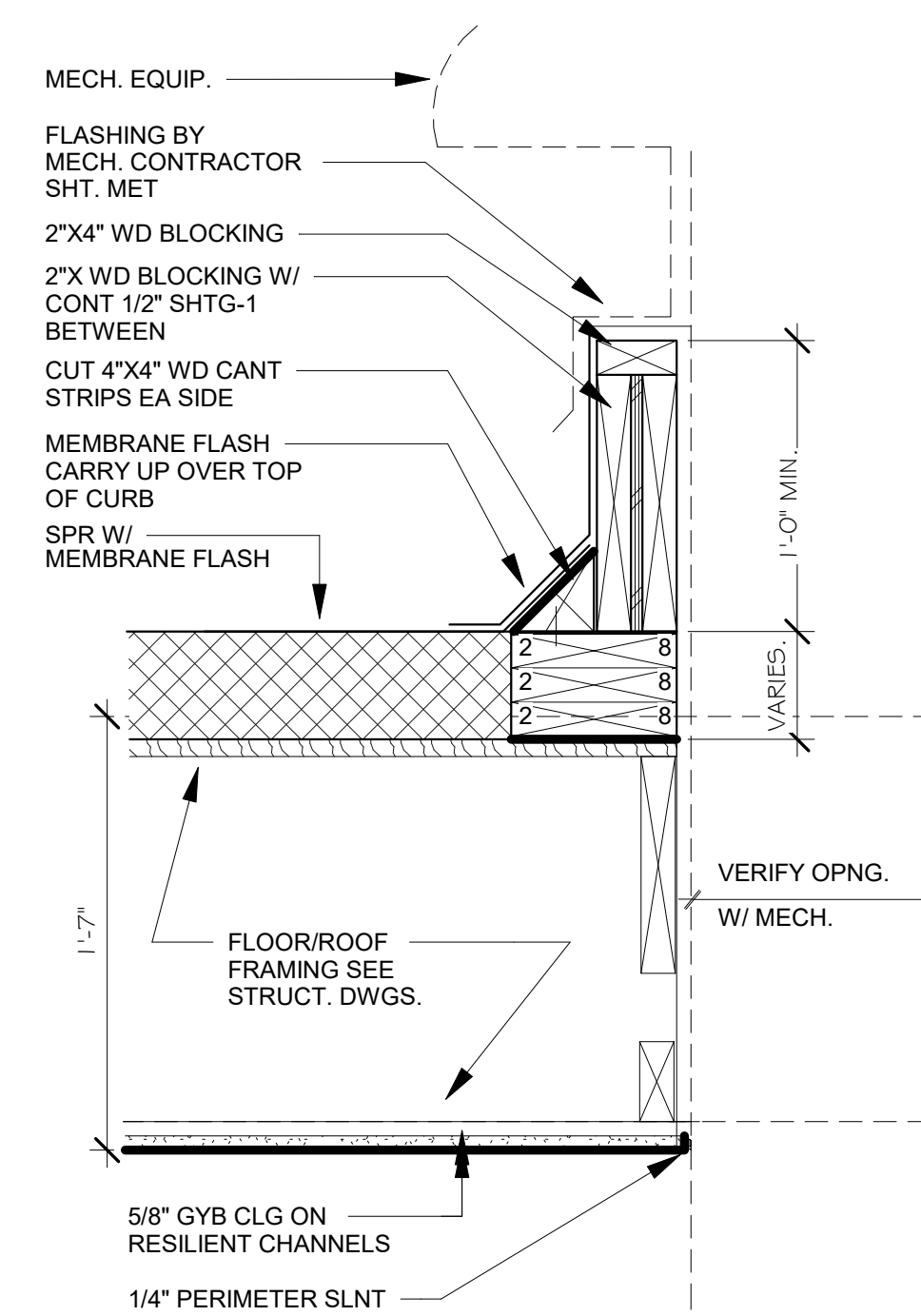




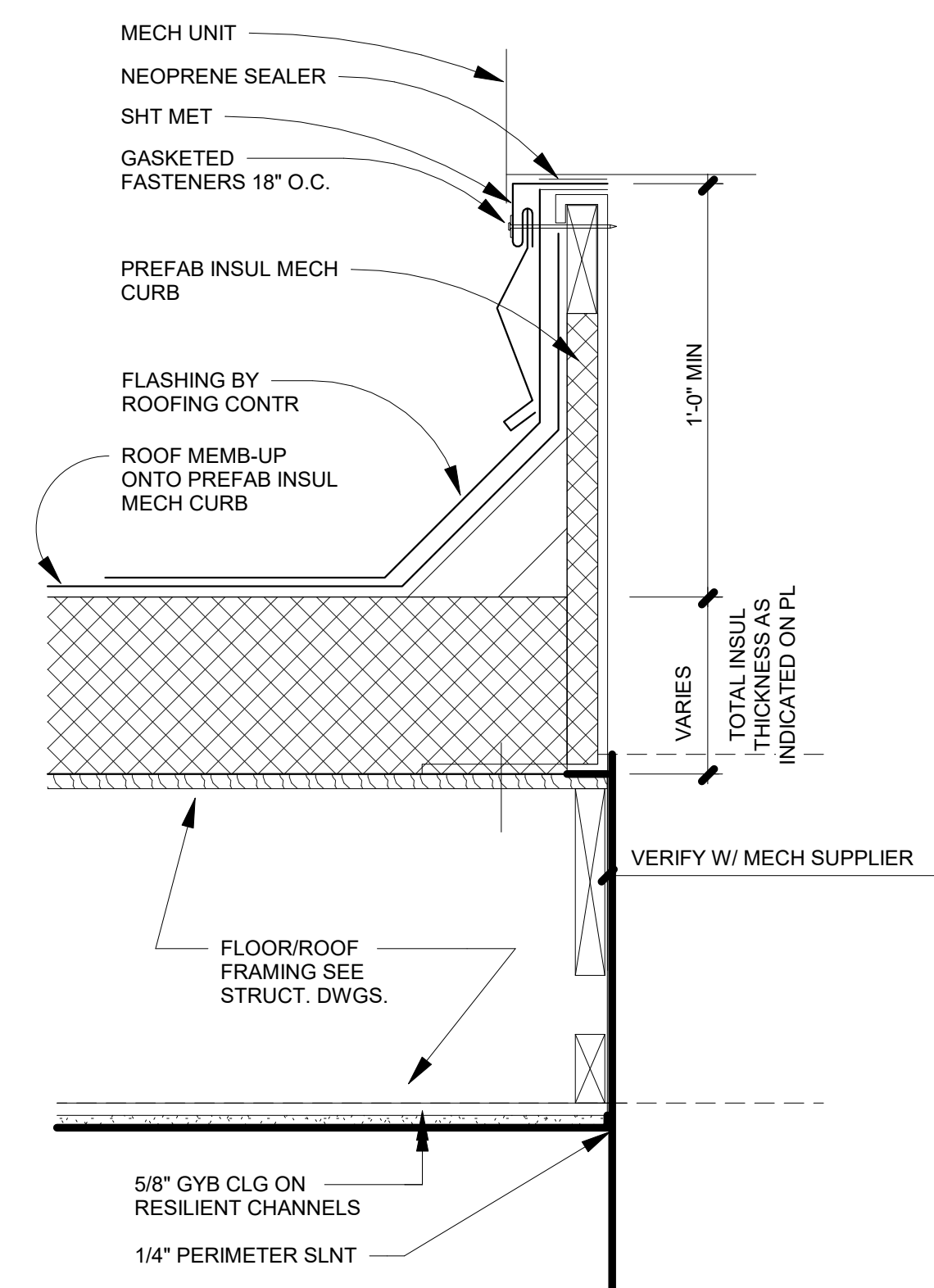
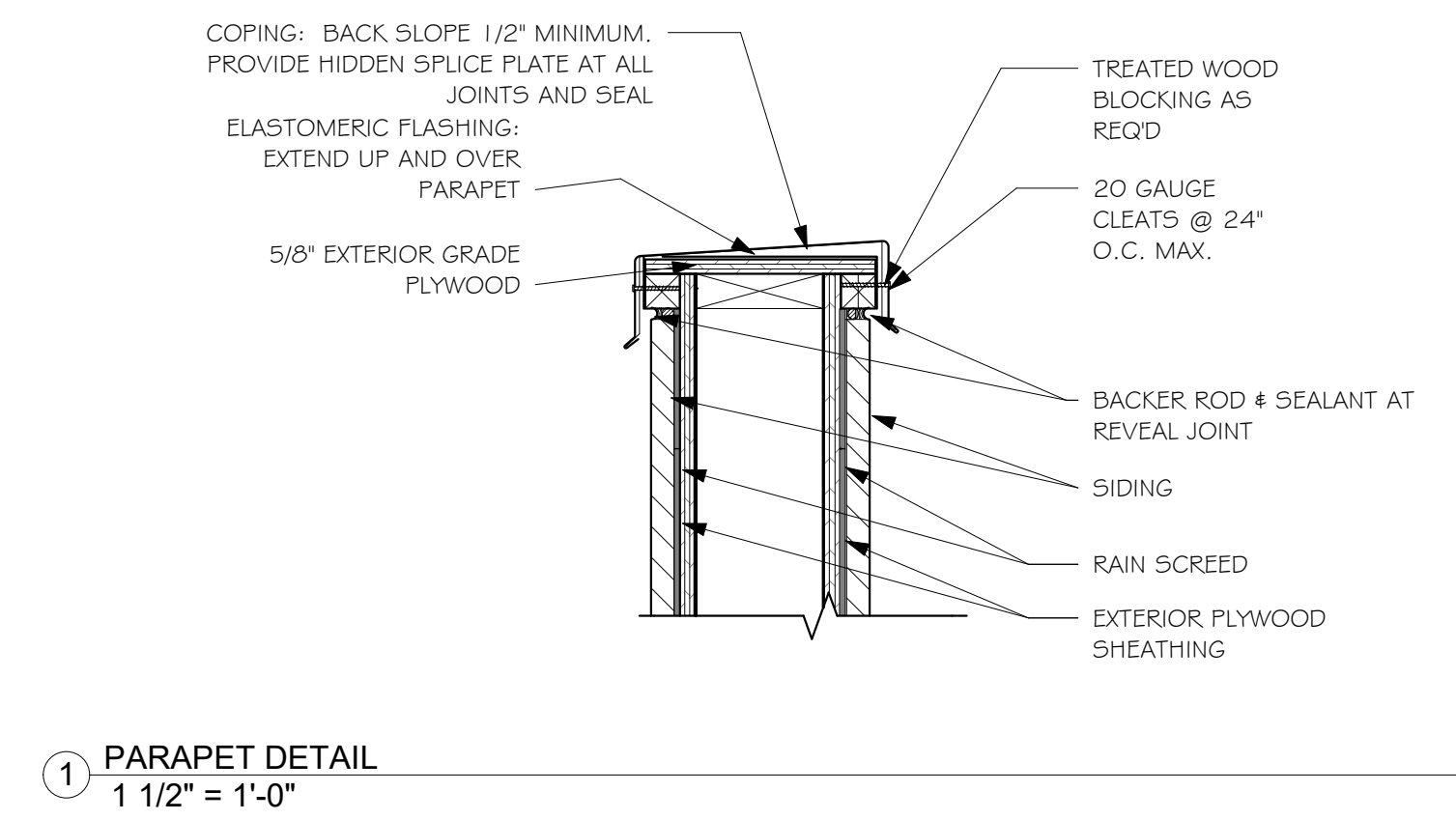
12 ROOF AHU CURB @ RATED SHAFT  
1 1/2" = 1'-0"



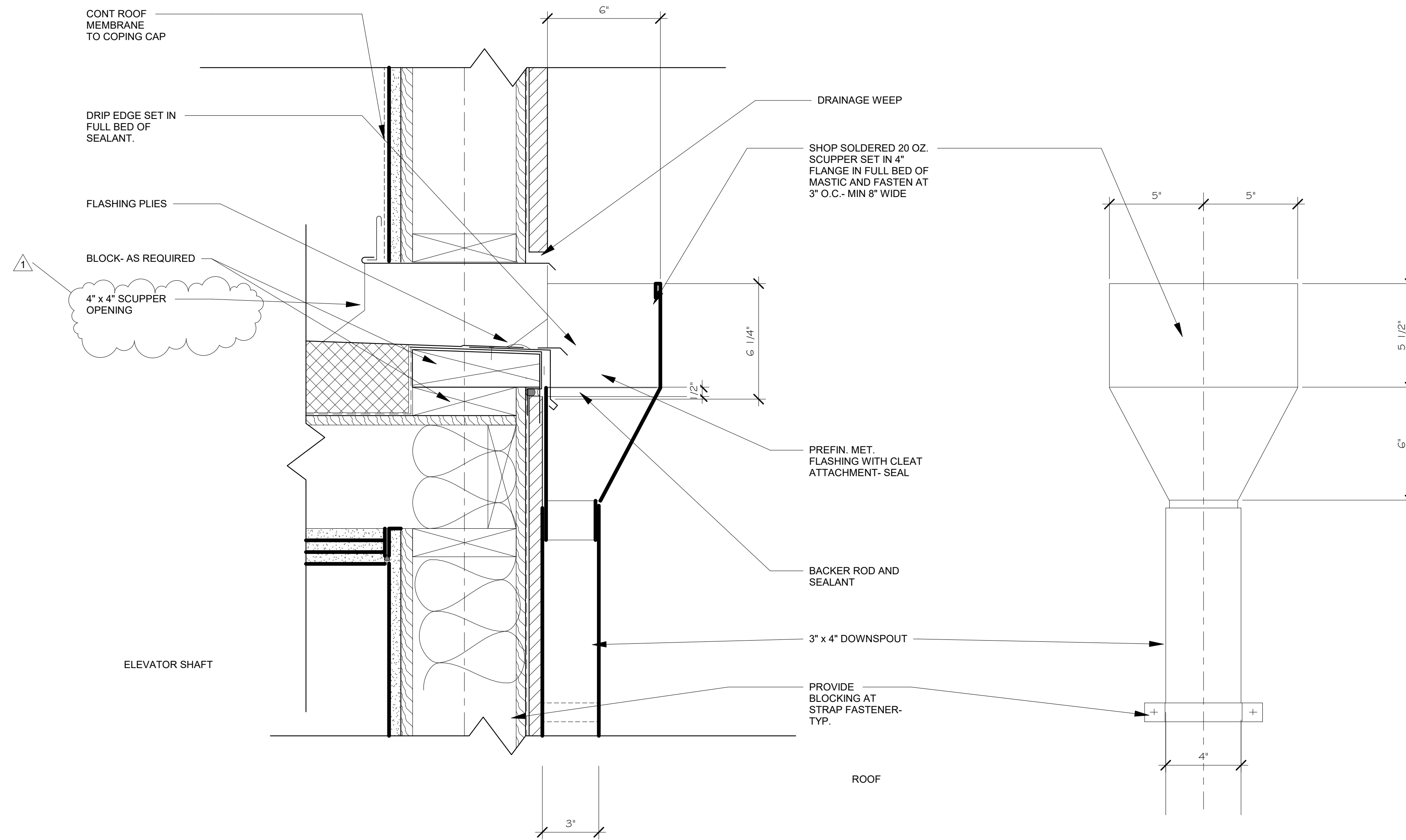
10 ROOF VENT  
1 1/2" = 1'-0"



7 ROOF EQUIP CURB  
1 1/2" = 1'-0"



4 ROOF AHU CURB  
1 1/2" = 1'-0"



3 ROOF SCUPPER  
3" = 1'-0"

JOB NO.	SHRLN-001
DATE	8/26/2017
DWN BY	
CHKD BY	
RVS'D	

TP HOME 22 UNIT APTS.  
2152  
TP Home LLC  
2152 N 185TH ST.

EXTERIOR DETAILS (ROOF)  
A904

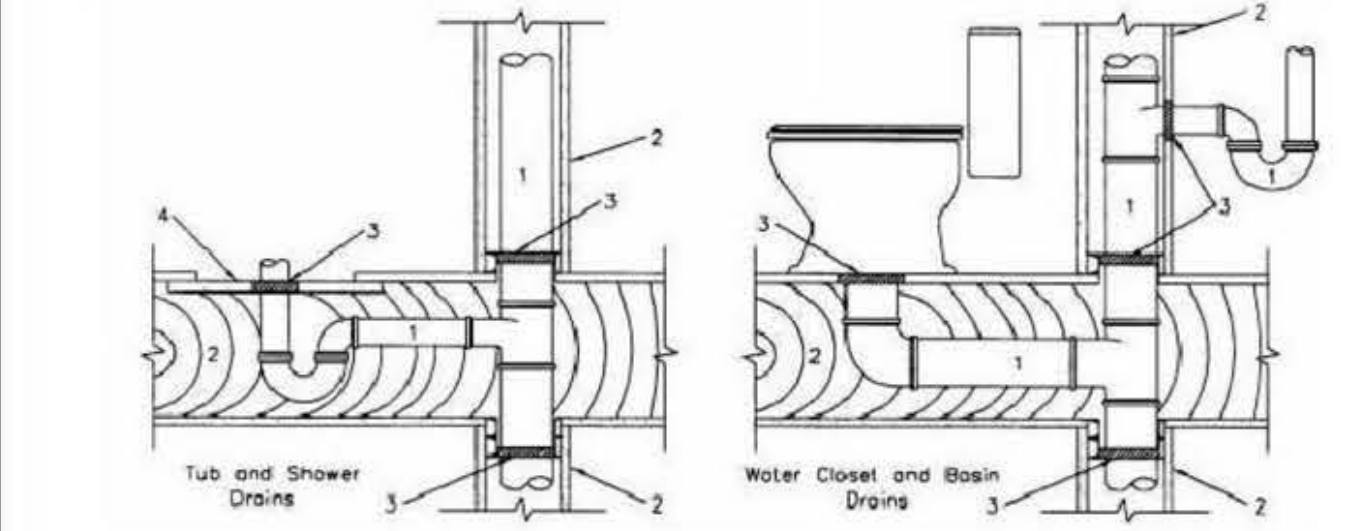
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SHEET NO.

A904

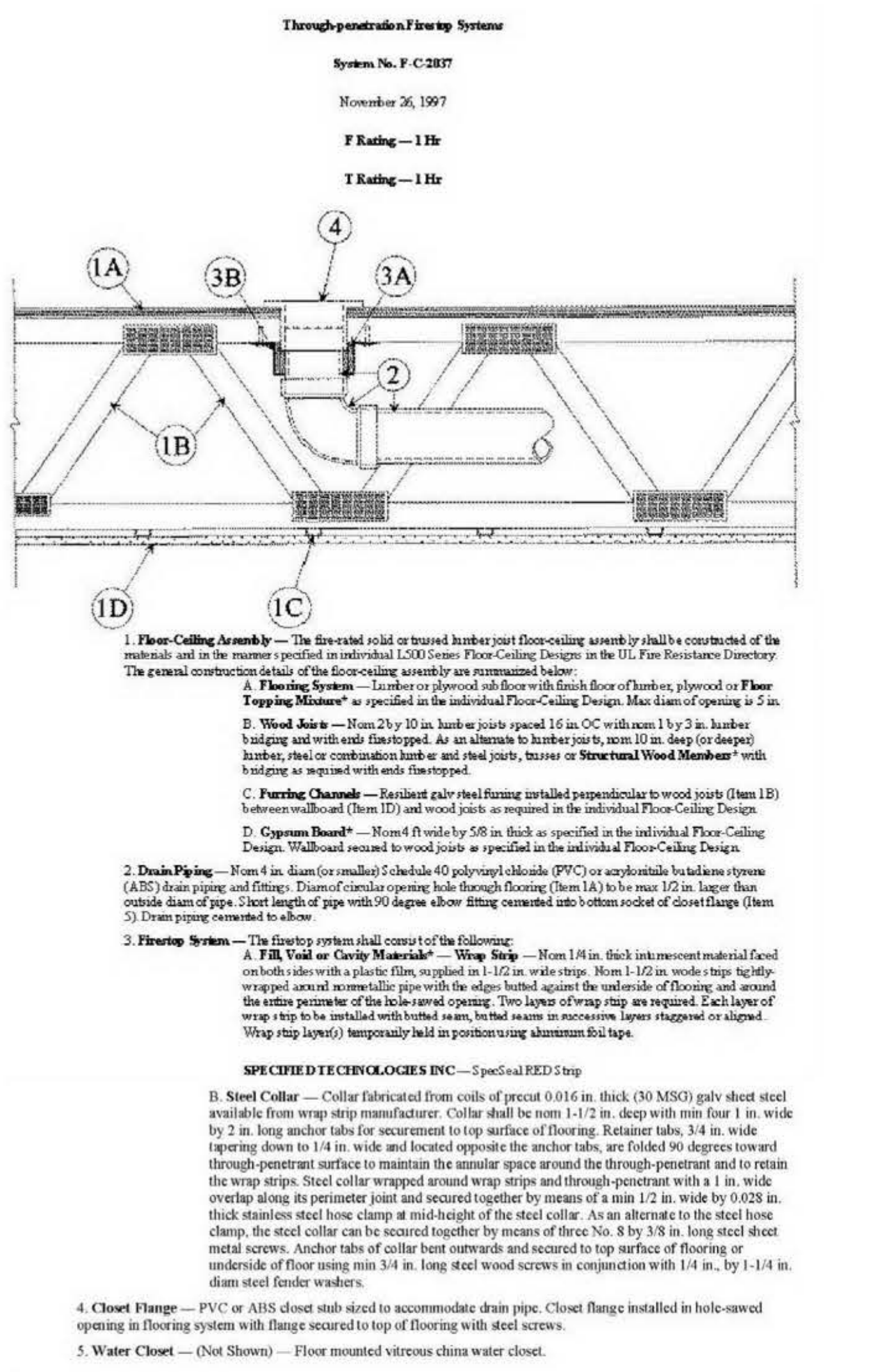
**Single Penetrations**  
 Horizontal or Vertical (floors/ceiling and walls)  
 Test Standards: ASTM E814, UL 1479 for all penetrations;  
 ULC S115-M95 for metallic open and closed systems only  
 Test Furnace Internal Positive Pressure Differential - 2.5 Pa (0.01 in. of water) Minimum

Penetrating Material & Size	Max Hole Size	Annular Space	Fire Rating	Firestop Rating	Temp Rating
ccABS Plastic Pipe to 4" (open and closed systems)	7"	1/8" - 3/4"	Up to 1 Hr	Up to 1 Hr	45 Mn
ABS Plastic Pipe to 4" (open and closed systems)	7"	1/8" - 3/4"	Up to 1 Hr	Up to 1 Hr	45 Mn
PVC Plastic Pipe to 4" (open and closed systems)	5 1/2"	0" - 3/4"	Up to 2 Hr	Up to 2 Hr	Up to 2 Hr
CPVC Plastic Pipe to 4" (open and closed systems)	5 1/2"	0" - 3/4"	Up to 2 Hr	Up to 2 Hr	Up to 2 Hr
CPVC Plastic Pipe to 4" (open and closed systems)	5 1/2"	0" - 3/4"	Up to 2 Hr	Up to 2 Hr	Up to 2 Hr
Polyethylene Plastic Pipe to 1" (closed system)	7"	3/4" - 5/8"	Up to 1 Hr	Up to 1 Hr	Up to 1 Hr
Copper Pipe and Tubing up to 4" ID	7"	3/4" - 5/8"	Up to 2 Hr	Up to 2 Hr	23 Mn
Cast Iron Pipe up to 4" ID	7"	3/4" - 5/8"	Up to 2 Hr	Up to 2 Hr	55 Mn



- System Design Instructions**
- Penetrating Item:** Centered or offset in hole, see table above. Elbows, Tee's and couplings can penetrate the fire stop system.
  - Floor/Ceiling or Wall Fire Separations:**
    - 1 and 2 hour rated ASTM E 119 or CAN/ULC S101 metal or wood framed gypsum wall board (GWB) floor/ceiling/wall assemblies with or without concrete topping.
    - 1 or 2 hour rated metal or wood framed gypsum wallboard wall assemblies.
    - Wood framed floor/ceiling assemblies.
      - 1 Hour Assembly with minimum nominal 1 1/2" depth wood floor joists.
      - 2 Hour Assembly with minimum nominal 1 1/2" depth wood floor joists.
    - Concrete floor assemblies minimum 4 1/2" (114mm) depth provided the penetrating item is contained within a fire rated wall assembly.
  - Firestop System Component 1:** PFP Partners - Firestop 4800DW or 3600EX\* fully filling the annular space to the full depth of the membrane. Fill all header and sill plates contained within the wall assembly to a 1" (25mm) depth. On 0" to 3/4" (0mm) annular spaces a 3/8" (10mm) diameter fillet bead must be placed around the penetrating item on the surface of the GWB assembly.
  - Firestop System Component 2:** One layer of GGF Type "K" gypsum wallboard and filler material securely fastened with drywall screws on 4" (100mm) centers to reduce tub drain hole sizes up to 12" x 16" (300 x 400mm). Caulk a 3/8" (10mm) bead around perimeter edges of GWB insert after installation.

\*WH Labeled Component



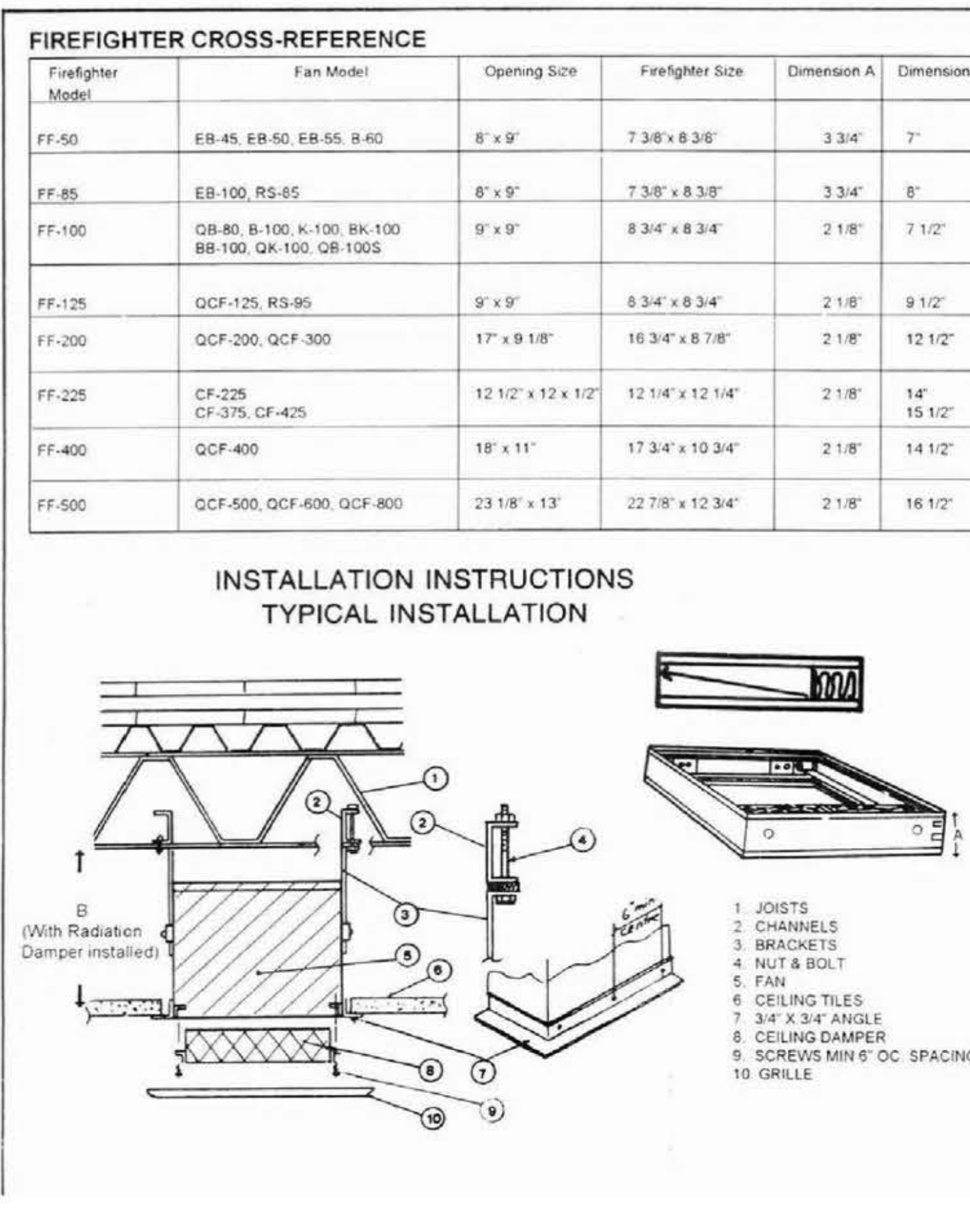
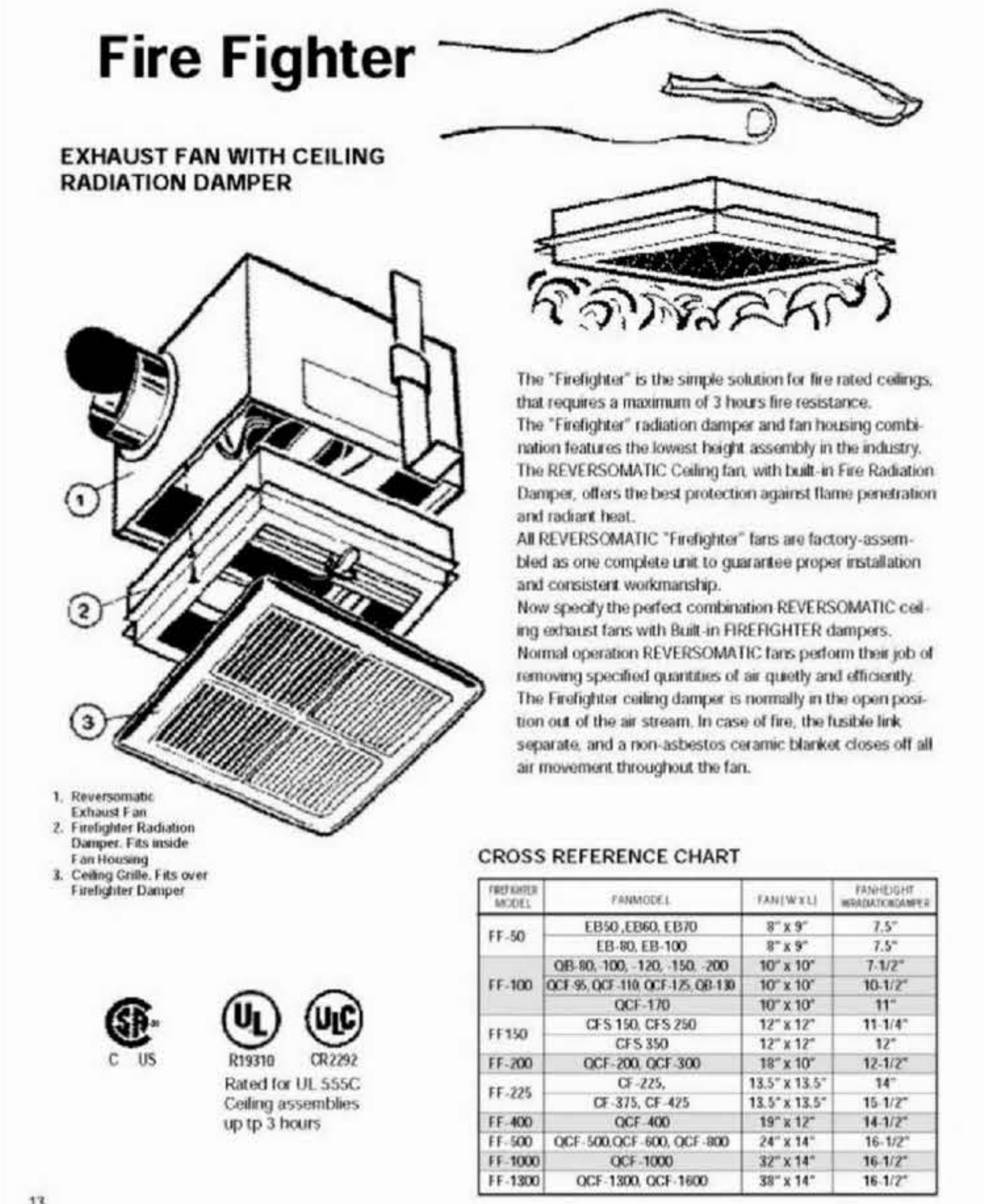
\*Bearing the UL Classification Marking

- System No. W-L-7028**  
 F Rating - 1 and 2 Hr (See Item 1)  
 T Rating - 0 Hr
- 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 and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. **Studs** - Wall framing shall consist of min 3-5/8 in. wide steel channel studs spaced max 24 in. OC. Additional 3-5/8 in. wide steel studs shall be used to completely frame the opening.  
 B. **Wallboard, Gypsum** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 Series Design in the UL Fire Resistance Directory. Max area of opening is 362 sq in. with a max dimension of 22-5/8 in.  
 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
  - Steel Duct** - Nom 18 by 12 in. (or smaller) No. 24 gauge (or heavier) steel duct to be installed within the framed opening. Steel duct to be rigidly supported on both sides of the wall assembly.
  - Batt and Blankets** - Max 1-1/2 in. thick glass fiber batt or blanket (min 3/4 pct) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the batt or blanket, the batt or blanket may be compressed such that the annular space within the firestop system shall be min 1/2 in. to max 2 in.  
 See **Batts and Blankets (BKNV)** category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
  - Firestop System** - The firestop system shall consist of the following:  
 A. **Fill, Void or Cavity Material** - **Wrap Strip** - Nom 1/4 in. thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. wide strips. Single layer of wrap strip wrapped around the through penetrant with the ends butted and held in place by means of two layers of foil tape. Wrap strip installed such that 1-1/4 in. of the wrap strip extends into the wall. One set of wrap strips to be installed on each side of the wall.  
 Specified Technologies Inc. - SpecSeal RED Wrap Strip  
 B. **Fill, Void or Cavity Material** - **Sealant** - Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of the wall. A min 1/4 in. bead of fill material shall be applied at the wrap strip/insulated through-penetrant interface on both sides of the wall.  
 Specified Technologies Inc. - SpecSeal Series 100 Sealant  
 \*Bearing the UL Classification Marking

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 FOD-3252

- System No. W-L-7025**  
 F Ratings - 1 and 2 Hr (See Item 1)  
 T Rating - 0 Hr
- 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 and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. **Studs** - Wall framing shall consist of min 3-5/8 in. wide steel channel studs spaced max 24 in. OC. Additional 3-5/8 in. wide steel studs shall be used to completely frame the opening.  
 B. **Wallboard, Gypsum** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U400 Series Design in the UL Fire Resistance Directory. Max area of opening is 1357-1/2 sq in. with max dimensions of 45-1/4 in.  
 The hourly F Rating of the firestop system is equal to the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
  - Steel Duct** - Nom 42 by 28 in. (or smaller) No. 24 gauge (or heavier) steel duct to be installed within the opening. The space between the steel duct and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. Steel duct to be rigidly supported on both sides of the wall assembly.
  - Firestop System** - The firestop system shall consist of the following:  
 A. **Packing Material** - (Optional) - Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction-fit into annular space for 2 hr rated wall assemblies only. Packing material to be recessed from both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/4 in. diam bead of sealant shall be applied at the wallboard/steel duct interface on both surfaces of the wall assembly.  
 Specified Technologies Inc. - SpecSeal Series 100 Sealant  
 B. **Fill, Void or Cavity Material** - **Sealant** - Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/4 in. diam bead of sealant shall be applied at the wallboard/steel duct interface on both surfaces of the wall assembly.  
 Specified Technologies Inc. - SpecSeal Series 100 Sealant  
 C. **Retaining Angles** - Min No. 16 gauge galv steel angles sized to lap steel duct a min of 2 in. and lap wall surfaces a min 1 in. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. long sheet metal screws spaced a max of 1 in. from each end of steel duct and spaced a max 6 in. OC.  
 \*Bearing the UL Classification Marking

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 FOD-3255



- System No. F-C-2157**  
 F Rating - 1 Hr  
 T Rating - 1 Hr
- Floor-Ceiling Assembly** - The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual U500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the ratings of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:  
 A. **Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Diam of opening hole-sawed in flooring shall be 1 in. larger than diam of branch piping (Item 4).  
 B. **Wood Joists** - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.  
 C. **Wallboard, Gypsum** - Nom 4 ft. wide by 5/8 in. thick, attached as described in the individual Floor-Ceiling Design.  
 D. **Chase Wall** - The through-penetrant (Item 3) shall be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified in the individual U500 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. **Studs** - Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.  
 B. **Sole Plate** - Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted. Diam of opening cut in sole plate shall be 1/2 in. larger than diam of through penetrant (Item 3).  
 C. **Top Plate** - The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Diam of opening cut in double top plate shall be 1/2 in. larger than diam of through penetrant (Item 3).  
 D. **Wallboard, Gypsum** - Thickness, type, number of layers and fasteners shall be as specified in individual Wall or Partition Design.  
 E. **Through Penetrant** - One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. The annular space within the opening shall be a min 0 in. (point contact) to a max 1/2 in. The following types and sizes of nonmetallic pipes may be used:  
 A. **Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
 B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
 C. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
 D. **Branch Piping** - (Optional) - One nonmetallic pipe connected to through penetrant (Item 3) within concealed space above ceiling and contained within opening in flooring. The following types and sizes of nonmetallic pipes may be used:  
 A. **Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
 B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
 C. **Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.  
 D. **Fill, Void or Cavity Material** - **Sealant** - Min 3/4 in. thickness of fill material applied within annular space around perimeter of through penetrant (Item 3), flush with top surface of sole plate and flush with bottom surface of double top plate. Min 3/4 in. thickness of fill material applied within annular space around branch piping (Item 4), flush with top surface of flooring. At point contact locations within the chase wall assembly, apply min 1/4 in. diam bead of fill material at nonmetallic pool wood plate interface on top and bottom surface of chase wall assembly.  
 Specified Technologies Inc. - SpecSeal 100, 101, 102 or 105 Sealant  
 \*Bearing the UL Classification Marking

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 FOD-3307

**MIFAB**  
 INSULATED FIRE RATED ACCESS DOOR WITH DRYWALL BEAD

Internet address: www.mifab.com Toll Free: 1-800-465-2736 Canada Toll Free: 1-800-387-3880

**MPFR-DW**  
 INSULATED FIRE RATED ACCESS DOOR WITH DRYWALL BEAD FRAME

**SERIES MPFR-DW**  
 INSULATED FIRE RATED ACCESS DOOR WITH DRYWALL BEAD FRAME

**DESCRIPTION**  
 The MIFAB MPFR-DW fire rated access door is approved by Underwriters Laboratories Inc. for 1-1/2 hours, "B" label walls and is approved by Warrick Hershey for 2 hours in ceilings and 3 hours in walls. It meets ANS-L 108 standards. The same door can be used in walls and ceilings. Tests were conducted using mild steel and type 304 stainless steel. The MPFR-DW incorporates a drywall bead type of frame for a concealed frame application.

**SPECIFICATIONS**  
 Material: MPFR Series is 20 gauge galvanized steel door and 16 gauge galvanized steel frame. The MPFR-DW-SS stainless steel Series is 20 gauge #304 stainless steel door and 16 gauge #304 stainless steel frame. Stainless steel doors have a primed white finish. Stainless steel doors have a #4 brush satin finish. Flush to frame. Self-closing. Can be opened from the inside or back of the door with MIFAB's unique thumb-turn latch. Four piece welded frame with masonry mounting studs and drywall bead frame for concealed drywall applications. Concealed pivot pins. Heavy duty. An extra spring is provided with every door. 14" x 14" (15" x 15") for ceiling installation. Both springs must be attached to the door to ensure that the door will close when installed in the ceiling. Standard - Flush mounted, interchangeable turn-operator and key-operator latch. Optional - cylinder key lock. All MIFAB's cylinder locks are keyless style. Fire Rating: 1 hour non-combustible ceilings and walls, 1 1/2 hours non-combustible ceilings and 3 hour non-combustible walls. Ceiling fire ratings are up to and including the 24" x 36" (610 x 914) size. Door #1280 (2" 50) thick and fire retardant.

**Key Operator** Turn Operator

**OPTIONAL VARIATIONS:**  
 Cylindrical key lock suffix - C  
 Stainless steel suffix - SS

**NOTE:** The hinge is always furnished on the "A" or height (longer) dimension, unless otherwise specified.

MIFAB's factory is certified to the ISO 9001-91 Design and Manufacturing Standard. Design and dimensions are subject to modification.  
 Page A11

**Dale Sweeney ARCHITECT**  
 5715 143rd Place SE  
 Bellevue, WA 98006

JOB NO.: SHRLN-001  
 DATE: 6/26/2017  
 DWN BY: Author  
 CKD BY: Checker  
 RSD BY:

NO. DATE REVISION DESCRIPTION

**TP HOME 22 UNIT**  
**APTS. 2152**  
**TP Home LLC**  
**2152 N 185TH ST.**

**FIRESTOP DETAILS 1**

**A905**

PRINT DATE: 2/15/2021 12:47:51 PM

### Product Information

## CP 606 Flexible Firestop Sealant

**Product description**

- An acrylic based firestop sealant that provides movement capability in fire rated joints and seals through penetrations applications

**Product features**

- Silicone free
- Halogen, asbestos and solvent free
- UV-resistant

**Areas of application**

- Sealing construction/expansion joints
- Top of wall joints
- Metal pipes
- Cable bundles
- HVAC penetrations

**For use with**

- Various base materials such as masonry, concrete, metal, etc.
- Wall and floor assemblies rated up to 3 hours

**Examples**

- Where a gypsum wall assembly meets the underside of a metal or concrete deck
- Sealing expansion joints to impede the passage of fire, smoke and toxic fumes
- Sealing around HVAC penetrations through fire-rated assemblies

**System Advantage / Customer Benefits**

- Portable
- Meets 500 cycle requirements (ASTM E 1966 & UL 2079)
- Smoke, fume and water resistant
- Easy clean up with water
- Single component systems available
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

**Installation instructions for CP 606**

**Opening**

1. Clean the opening. Surfaces to which CP 606 will be applied should be cleared of loose debris, dirt, oil, wax and grease. The surface should be moisture and frost free.
2. If installation is for floor applications, not to be used in walls.

**Application of firestop**

1. Install CP 606 into the opening (backer as required).
2. Apply firestop over backer.
3. Smooth firestop sealant with a trowel before the skin forms. Once cured, CP 606 can only be removed mechanically.
4. For maintenance reasons, a penetration seal can be permanently marked with an identification plate and fastened in a visible position next to the seal.

**Notice about approvals**

- For maintenance reasons, a penetration seal can be permanently marked with an identification plate and fastened in a visible position next to the seal.

**Storage**

- Store only in the original packaging in a location protected from moisture at a temperature of 40°F to 77°F (5°C to 25°C)
- Observe expiration date on package

**UL Classified**

**FM Approved**

**British Standard BS 476**

**35**

**35**

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### Product Information

## CP 642 Firestop Collar

**Product description**

- Galvanized sheet steel containing sections of intumescent material (designed to expand when exposed to fire) for firestopping large combustible pipes

**Product features**

- Ready-to-use collar, no construction required, therefore fast installation time
- Adjustable/movable fastening tabs

**Tested in accordance with**

- UL 1479
- ASTM E 814
- UL 1479
- ASTM E 814

**Installation instructions for CP 642**

1. Clean plastic pipe
2. Close remaining gap to pipe with smoke and gas tight seal
3. Close collar
4. Attach fastening hooks
5. Fasten collar and identification plate (if required)

**Dimensions**

Designation	Pipe outside dia. (in.)	Collar outside dia. (in.)	Collar Height (in.)	No. of books and fasteners
CP 642-160K"	6.6	8.2	4.4	6
CP 642-200K"	8.8	10.0	6.5	7
CP 642-250K"	10.9	12.4	9.1	9

**Approvals**

ICBO Evaluation Service, Inc. Report No. 5071  
 California State Fire Marshal Listing No. 4485-1200-105  
 City of New York Report No. MEA 115-96-M

**Notice about approvals**

- When working a pipe seal using Hilti CP 642 Intumescent Firestop Collar, please refer to the UL directory or Hilti Firestop Manual for instructions as to opening size, type and thickness of wall or floor, maximum pipe diameter, etc.

**Not for use...**

- With metal pipes
- In highly corrosive surroundings
- With unapproved anchors/fasteners

**Safety precautions**

- Keep out of the reach of children
- Read the Material Safety Data Sheet

**Storage**

- Store only in the original packaging in a location protected from moisture

**UL Classified**

**FM Approved**

**British Standard BS 476**

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**Storage**

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**UL Classified**

**FM Approved**

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### Product Information

## CP 601S Elastomeric Firestop Sealant

**Product description**

- A silicone based firestop sealant that provides maximum movement in fire-rated joint applications and pipe penetrations

**Product features**

- Halogen and solvent free
- Adhesive free
- Simple to use and apply
- Good adhesion without use of a primer
- Smoke, fume, water, weather and UV resistant
- Excellent movement capability, meets 500 cycle requirements (ASTM E 1966 & UL 2079)
- Meets Class I W-rating requirements
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

**Areas of application**

- Sealing construction/expansion joints
- Top of wall joints
- Metal pipes
- Cable bundles
- HVAC penetrations

**For use with**

- Various base materials such as masonry, concrete, metal, glass, etc.
- Wall and floor assemblies rated up to 4 hours

**Examples**

- Where a gypsum wall assembly meets the underside of a metal or concrete deck
- Sealing expansion joints to impede the passage of fire, smoke and toxic fumes
- Sealing HVAC penetrations through fire-rated assemblies

**System Advantage / Customer benefits**

- Sealant connects for quick and easy closure without use of a tool
- Adjustable position tabs for convenient fastening
- Ready to use out of the package

**UL Classified**

**FM Approved**

**British Standard BS 476**

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### Product Information

## CP 604 Self-Leveling Firestop Sealant

**Product description**

- Self-leveling, single-component, silicone-based firestop sealant for use with through-penetrations as well as construction joints in floors

**Product features**

- Self-leveling—requires no tooling
- Excellent elongation/compression properties
- Resistant to smoke and water
- Meets 500 cycle requirements (ASTM E 1966 & UL 2079)
- Smoke, fume and water resistant
- Meets Class I W-rating requirements
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

**Areas of application**

- Sealing construction/expansion joints
- Sealing around penetrations in small or large openings

**For use with**

- Concrete floors rated up to 3-hours

**Examples**

- Penetrations for metal pipes between floor levels
- Construction joints and expansion joints in floors

**UL Classified**

**FM Approved**

**British Standard BS 476**

**35**

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### Product Information

## CP 618 Firestop Putty Stick

**Product description**

- An intumescent, non-hardening, firestop putty for cable and pipe

**Product features**

- Contains no volatile solvents or asbestos
- Easy to re-penetrate

**Areas of application**

- Single or bundled cables
- Non-combustible pipe
- Blank openings
- Reusable
- Easy to add or subtract cables
- Fast installation

**For use with**

- Concrete, masonry and gypsum wall assemblies
- Wall and floor assemblies rated up to 3 hours

**Examples**

- Where telecommunication and data lines penetrate gypsum wall assemblies
- Where steel conduit and EMT penetrate concrete and block wall assemblies
- Where blank openings exist in concrete and block wall assemblies

**UL Classified**

**FM Approved**

**British Standard BS 476**

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### Product Information

## CP 617, CP 617XL & CP 617XL Firestop Putty Pad

**Product description**

- A moldable firestop putty designed to help protect electrical outlet

**Product features**

- Applied by hand
- Fast installation

**Areas of application**

- Protection of electrical outlet boxes

**For use with**

- Gypsum wall assemblies with wood or metal studs

**Examples**

- Where two outlets are within a single stud/cavity or within 24" (not back to back)

**UL Classified**

**FM Approved**

**British Standard BS 476**

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### Product Information

## FS-ONE High Performance Intumescent Firestop Sealant

**Product description**

- Intumescent sealant when exposed to fire firestop sealant that helps protect combustible and non-combustible penetrations for up to 4 hours fire rating

**Product features**

- Smoke, gas and water resistant after material has cured
- Contains no halogen, solvents or asbestos
- High fire rating properties
- Water based, easy to clean
- Protects most typical firestop penetration applications
- Can be painted
- Single component systems available
- Meets LEED™ requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

**Areas of application**

- Steel, copper and EMT pipes
- Insulated steel and copper pipes
- Cable bundles
- Closed or vented plastic pipes
- HVAC penetrations

**For use with**

- Concrete, masonry, drywall and wood floor assemblies
- Wall and floor assemblies rated up to 4 hours

**Examples**

- Sealing around combustible and non-combustible penetrations in fire rated construction

**UL Classified**

**FM Approved**

**British Standard BS 476**

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 ARCHITECT  
 5715 143rd Place SE  
 Bellevue, WA 98006

JOB NO.: SHRLN-001  
 DATE: 6/26/2017  
 DWG. BY: Author  
 CHKD BY: Checker  
 RSD:

NO. DATE

TP HOME 22 UNIT  
 APTS. 2152  
 TP Home LLC  
 2152 N 185TH ST.

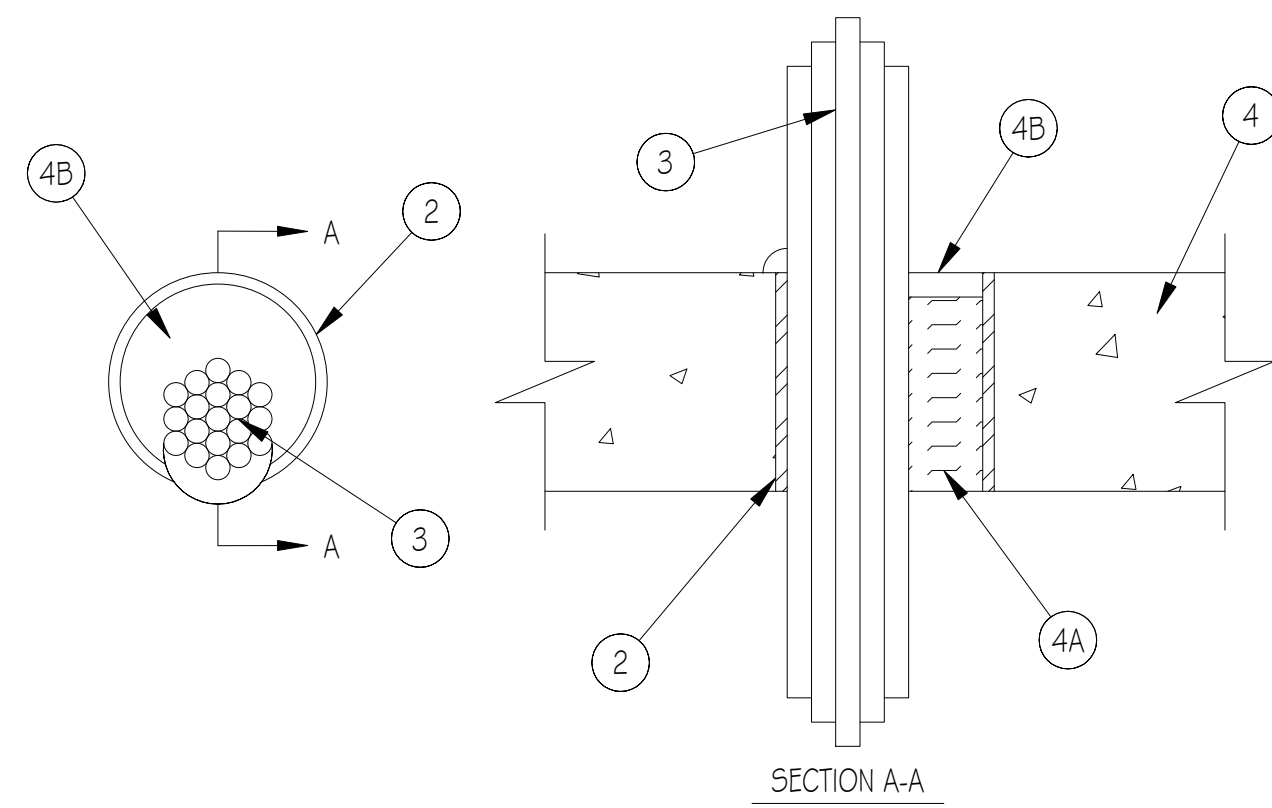
FIRESTOP DETAILS 2

PRINT DATE:  
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SHEET NO.  
 A906

System No. C-AJ-181  
F Rating - 3 Hr  
T Rating - 0 Hr

CAJ181



- Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 4 in. See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.
- Steel Sleeve -- (Optional) - Nom 4 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve, cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall assembly.
- Cables -- Aggregate cross-sectional area of cables in sleeve or opening to be min 25% to max 60% of the cross-sectional area inside the sleeve or opening. The annular space between cables and periphery of opening shall be min of 0 in. (point contact) to max 1-7/8 in. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of cable may be used:
  - Max 300 par No. 24 AWG copper conductor telephone cables with polyvinyl chloride (PVC) insulation and jacket.
  - Max 500 kcmil cable with polyvinyl chloride (PVC) insulation and jacket.
  - Max 7/8 in. 12 AWG copper conductor power cable with polyvinyl chloride (PVC) insulation and jacket.

- Max 24 fibers 1/2 in. diam fiber optic cable.
  - Max 3/8 in. 12 AWG metal-clad cable.
  - Max 3/8 in. ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
  - RGLU coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of 1/8 in.
4. Firestop System -- The details of the firestop system shall be as follows:
- Packing Material -- Min. 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
  - Fill, Void or Cavity Materials\* - Caulk -- Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between penetrant and sleeve or concrete, a min 1/2 in. diam bead of fill material applied at the sleeve/cables or concrete/cables interface on the top surface of floor or both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 606 Flexible Firestop Sealant \*Bearing the UL Classification Mark



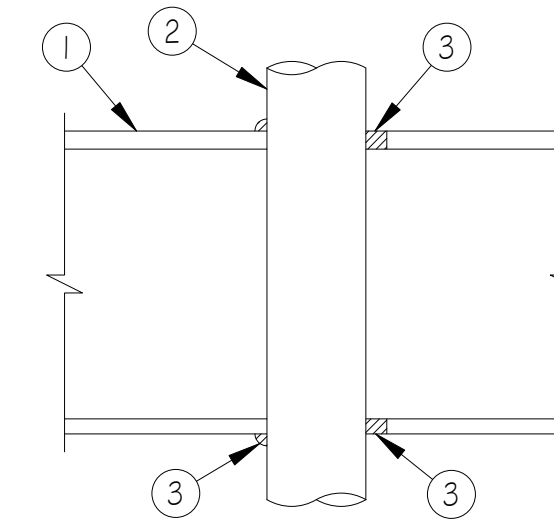
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System No. F-C-1106  
F Rating -- 1 Hr  
T Rating -- 1/4 Hr

FC1106



- Floor-Ceiling Assembly -- The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
  - Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture\* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).
  - Wood Joists\* -- Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members\* with brdgng as required and with ends firestopped.
  - Gypsum Board\* -- Min 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).
- Chase Wall -- (Optional, Not Shown) -- The through penetrants (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Sole Plate -- Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm), 2 by 8 in. (51 by 203 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
  - Top Plate -- The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or 2 by 8 in. (51 by 203 mm) lumber plates or double nom 2 by 4 in. (51 by 102 mm) lumber plates tightly butted together. Circular opening to be centered in top plate. Top plate to be min 1 in. (25mm) wider than diam of opening. Max diam of opening in top plate is 5-1/2 in. (140 mm).
  - Gypsum Board\* -- Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
- Through Penetrants -- One metallic pipe, conduit or tubing, to be installed concentrically or eccentrically within the opening. The diam of the opening shall be 1 in. larger than the nom diam of the penetrant. The annular space between the pipe, conduit or tubing and the periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - Copper Tube -- Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
  - Copper Pipe -- Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
  - Steel Pipe -- Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Iron Pipe -- Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
  - Conduit -- Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.



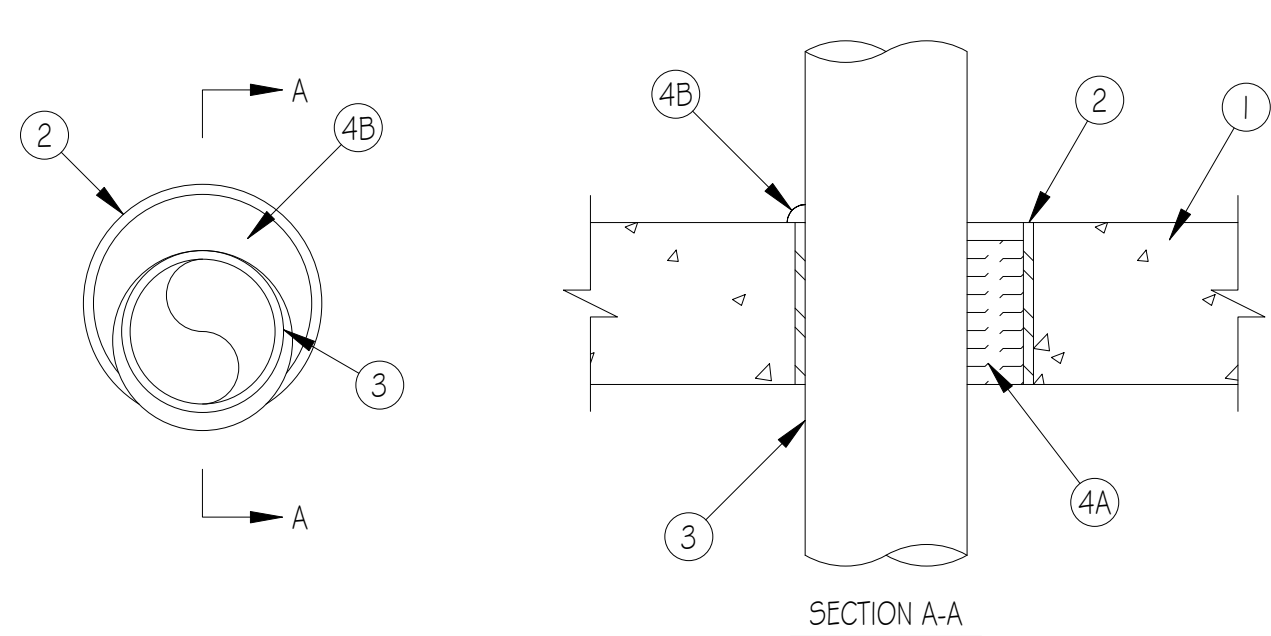
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Page: 1 of 2

System No. C-AJ-1453  
F Rating -- 2 Hr  
T Rating -- 1/4 Hr  
L Rating At Ambient -- Less Than 1 CFM/sq ft  
L Rating At 400° F -- 4 CFM/sq ft

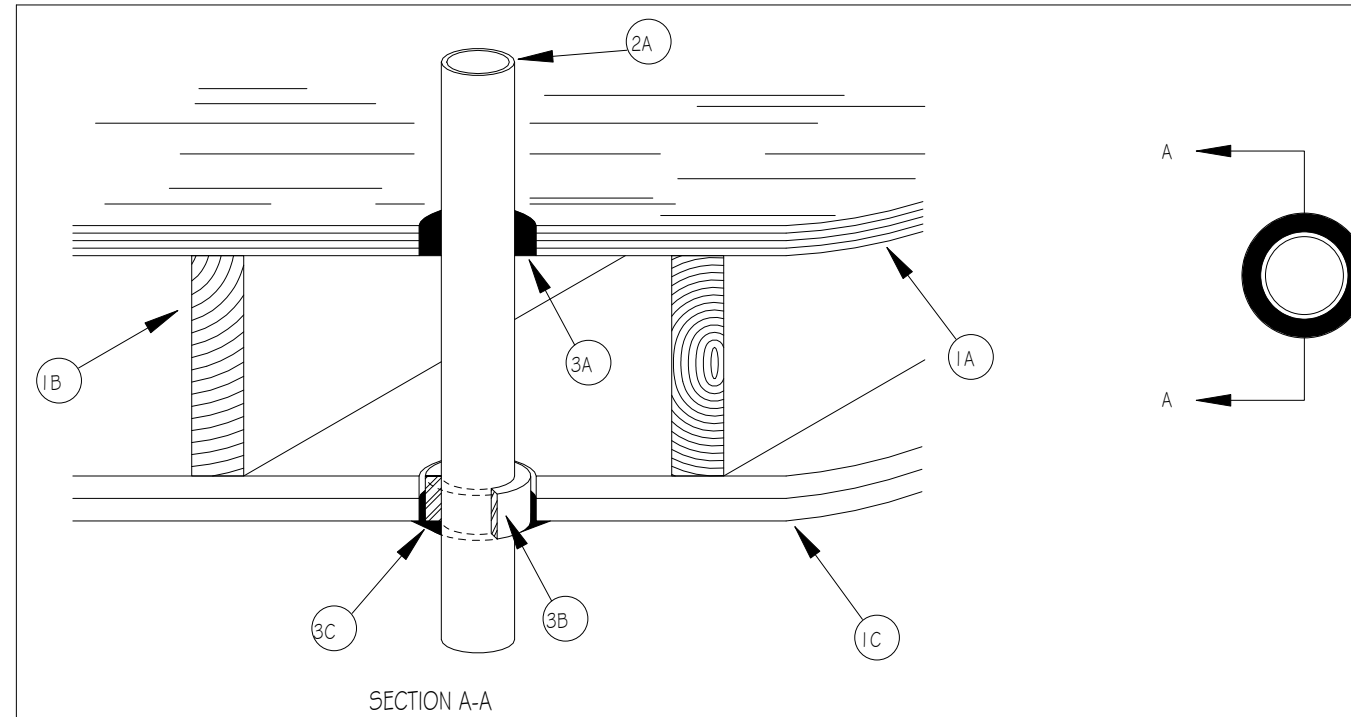
CAJ1453



- Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 31-7/8 in. See Concrete Blocks (CAZT) in the Fire Resistance Directory for names of manufacturers.
- Metallic Sleeve -- (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- Through Penetrants -- One metallic pipe, conduit or tubing to be installed concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space between pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1-7/8 in. The following types and sizes of pipe, conduit or tubing may be used:
  - Steel Pipe -- Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
  - Conduit -- Nom 6 in. diam (or smaller) rigid steel conduit.
  - Conduit -- Nom 4 in. diam (or smaller) steel electrical metallic conduit.
  - Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
  - Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System -- The firestop system shall consist of the following:
  - Packing Material -- Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from the top surface of the floor to accommodate the required thickness of fill material.
  - Fill, Void or Cavity Materials\* - Sealant -- Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor. At point contact, a min 1/4 in. diameter bead of fill material shall be applied at the pipe/sleeve interface on the top surface of the floor or both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 606 Flexible Firestop Sealant \*Bearing the UL Classification Mark



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- Floor-ceiling assembly -- ULL500 Series Design
  - Min. 3/4 in. lumber or plywood subfloor with a max. 3 in. diameter penetrant opening.
  - Normal 2x10 in. lumber joists or trusses (wood or steel).
  - One layer of gypsum wallboard capable of providing a 1 hr. rating or two layers of gypsum wallboard capable of providing a 2 hr. rating.
- Penetrant
  - Max. 2 in. rigid nonmetallic conduit, ABS, PVC, or CPVC piping as an open (vented) or closed system.
- Firestopping -- FlameSafe FS 1900 Series Sealant. FlameSafe FS100 Wrap Strip.
  - At floor surface, apply FS 1900 3/4 in. deep into annular space and add a 3/8 in. crown.
  - At ceiling surface wrap one layer of FSWS 100 around penetrant secured with masking tape and into annulus protruding 1/4 in. below ceiling surface.
  - At ceiling surface, apply FS 1900 sealant 5/8 in. deep into annular space and add a 3/8 in. crown.

Notes

- This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
- System design related to the UL 1479 (ASTM E814) Fire Tests of Through-Penetrations Firestops.
- Please refer to the UL Fire Resistance Directory for components requiring UL Classification.

GRACE Construction Products

Firestop Assembly	Product:	FlameSafe FS100 Wrap Strip FlameSafe FS 1900 Series Sealant	F Rating:	1 & 2 HOUR	UL System:	FC2084	Grace Diag #	FC2084
Project:	Installer:	Approval:	Date:	Rev. #	000			
2-206								

W.R. Grace & Co. - Conn  
62 Whittemore Ave  
Cambridge, MA 02140  
Phone: 800-334-8796  
Fax: 617-498-1419  
E-mail: info@flame-safe.com

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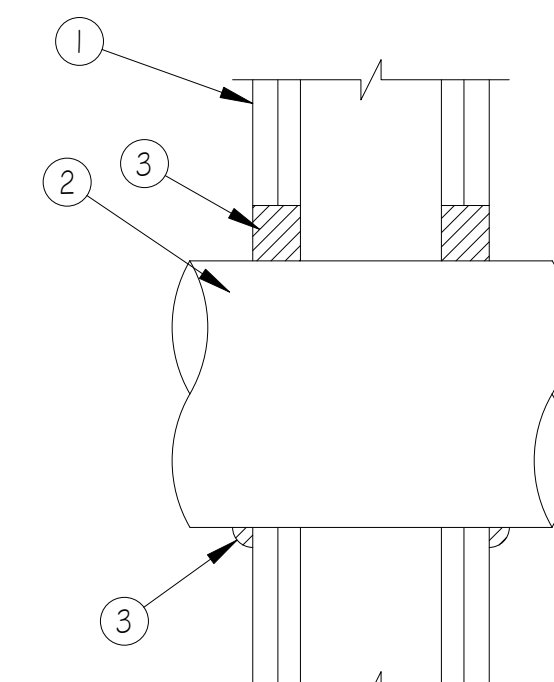


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WL1297

System No. W-L-1297  
F Ratings -- 1 and 2 Hr (See Item 1)  
T Rating -- 0 Hr  
L Rating at Ambient -- Less than 1 CFM/sq ft  
L Rating at 400° F -- Less than 1 CFM/sq ft



- Wall Assembly -- The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs -- Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
  - Gypsum Board\* -- Nom 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the Fire Resistance Directory. Max diam of opening is 32 in. (813 mm).
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant -- One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in (0 mm, point contact) to max 2 in. (51 mm) in 2 hr fire-rated walls and min 0 in (0 mm, point contact) to max 1 in. (25 mm) in 1 hr fire-rated walls. The following types and sizes of metallic pipes, conduit or tube may be used:
  - Steel Pipe -- Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
  - Iron Pipe -- Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
  - Conduit -- Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
  - Copper Tube -- Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
  - Copper Pipe -- Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material\* - Sealant -- Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall, for 1 hr and 2 hr fire-rated wall assemblies, respectively. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface at the point contact location. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP606 Flexible Firestop Sealant \*Bearing the UL Classification Mark



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**Dale Swency**  
ARCHITECT  
5715 143rd Place SE  
Bellevue, WA 98006

JOB NO.:	SHRLN-001
DATE:	6/26/2017
DWN BY:	Author
CHKD BY:	Checker
RVSF:	

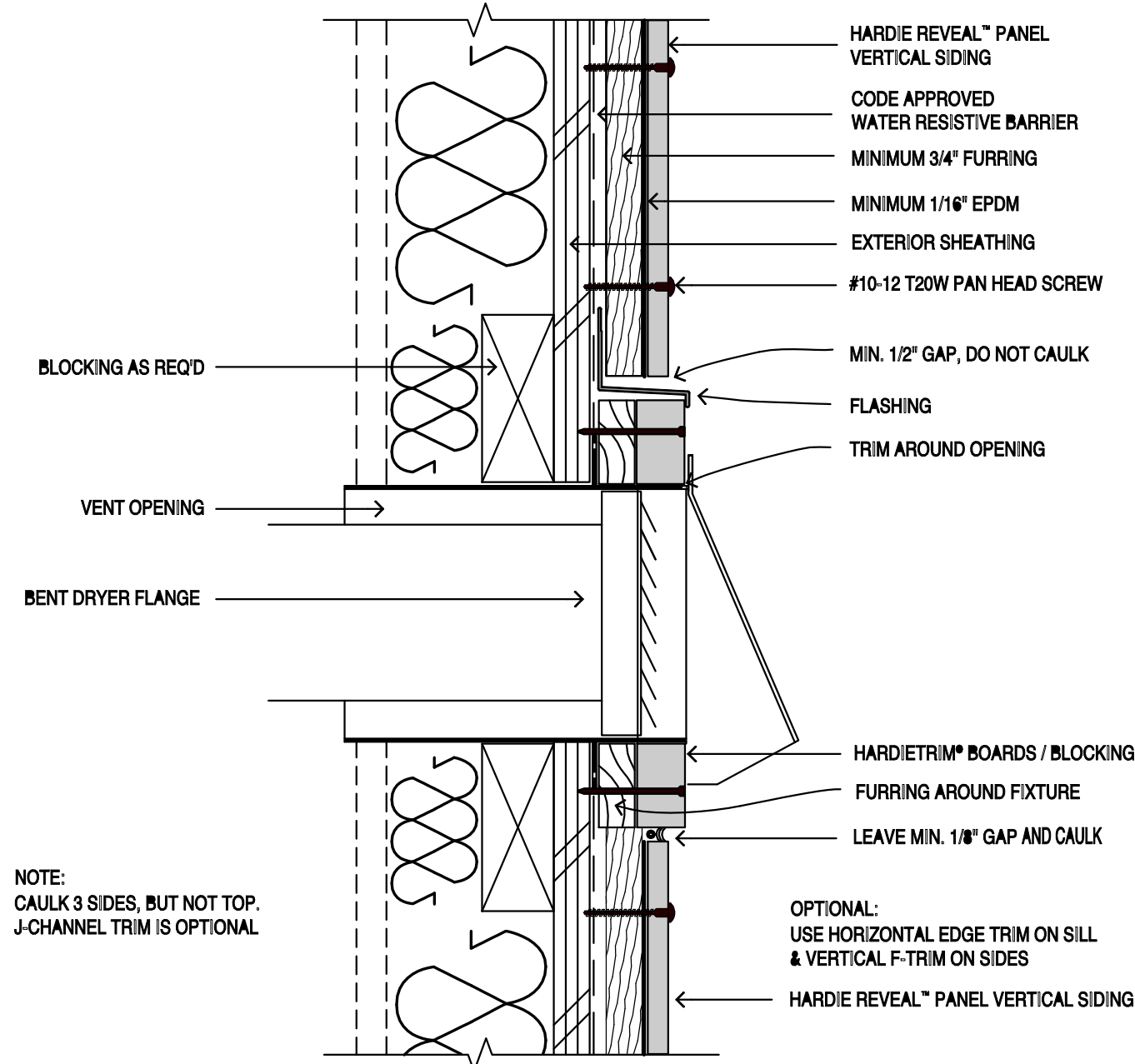
NO.	DATE	REVISIONS	Revision Description

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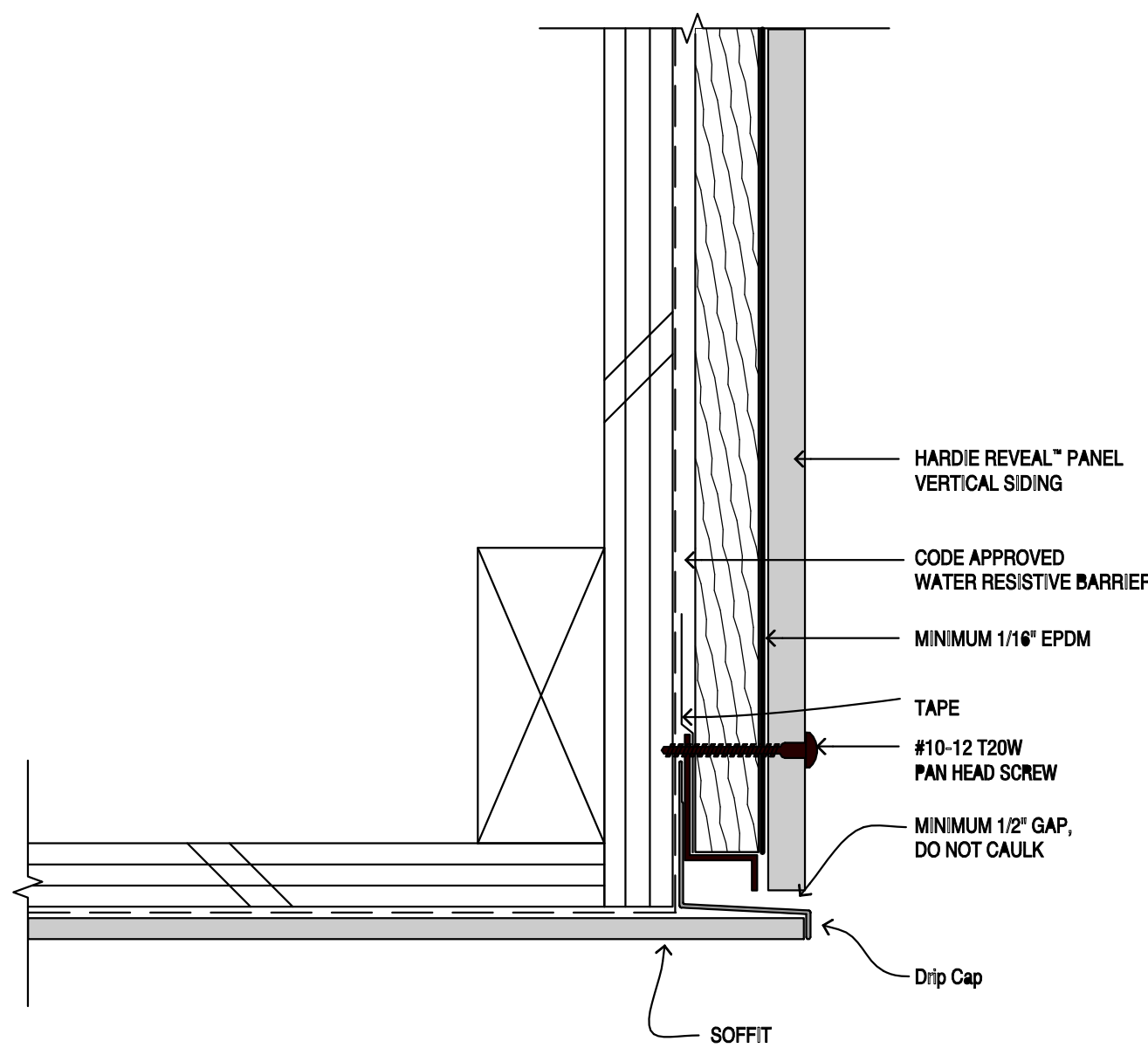
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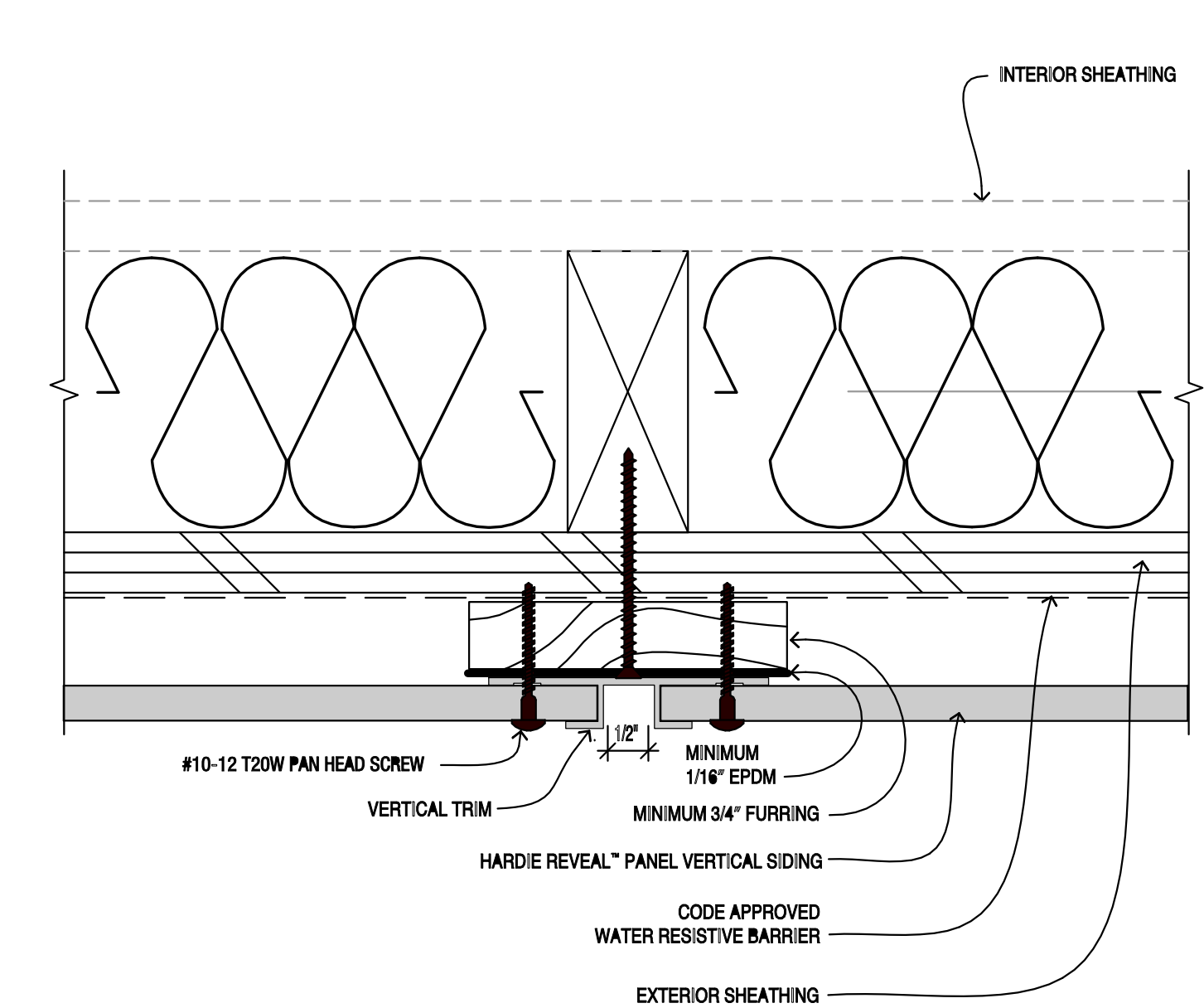
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A910**



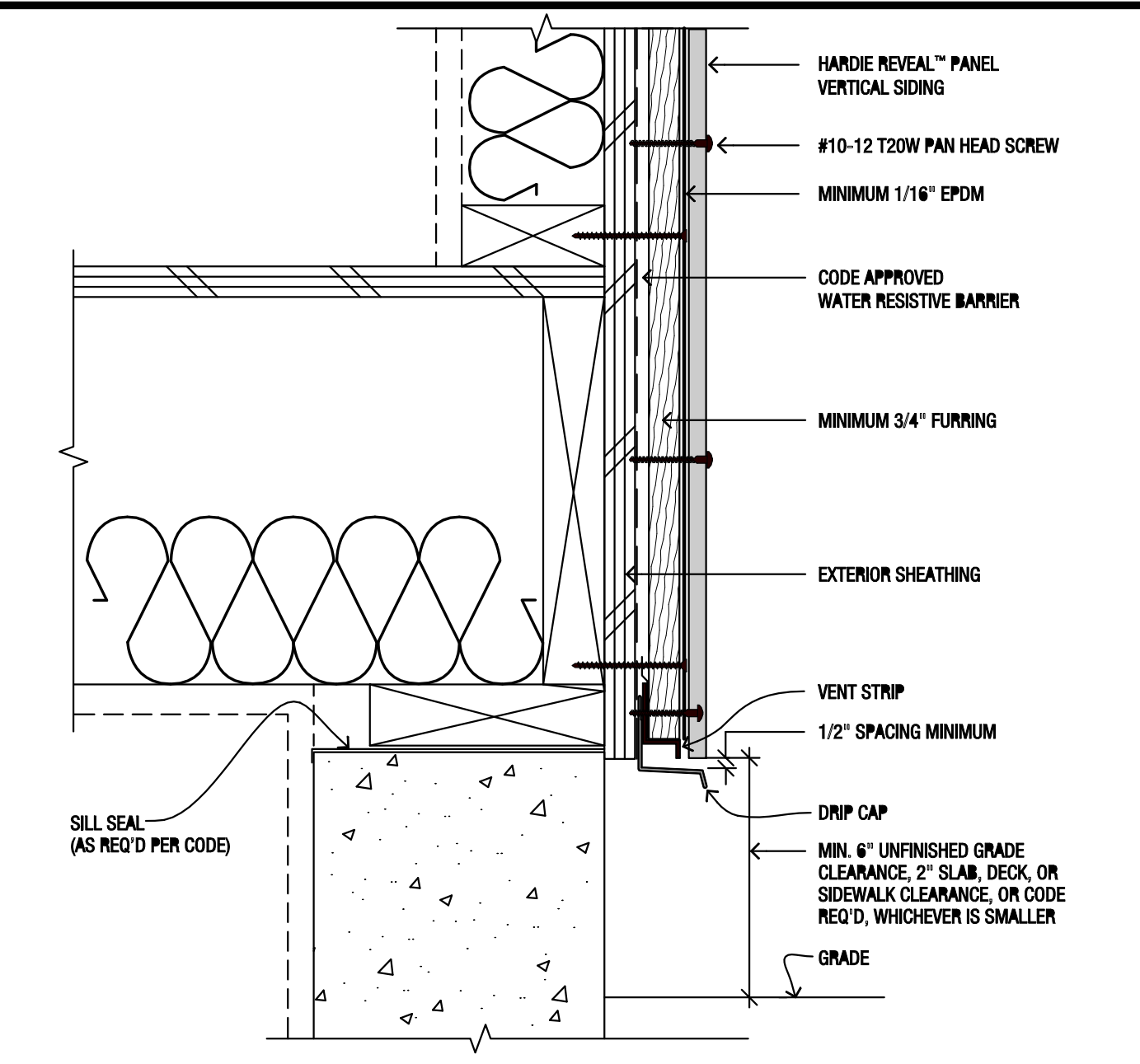
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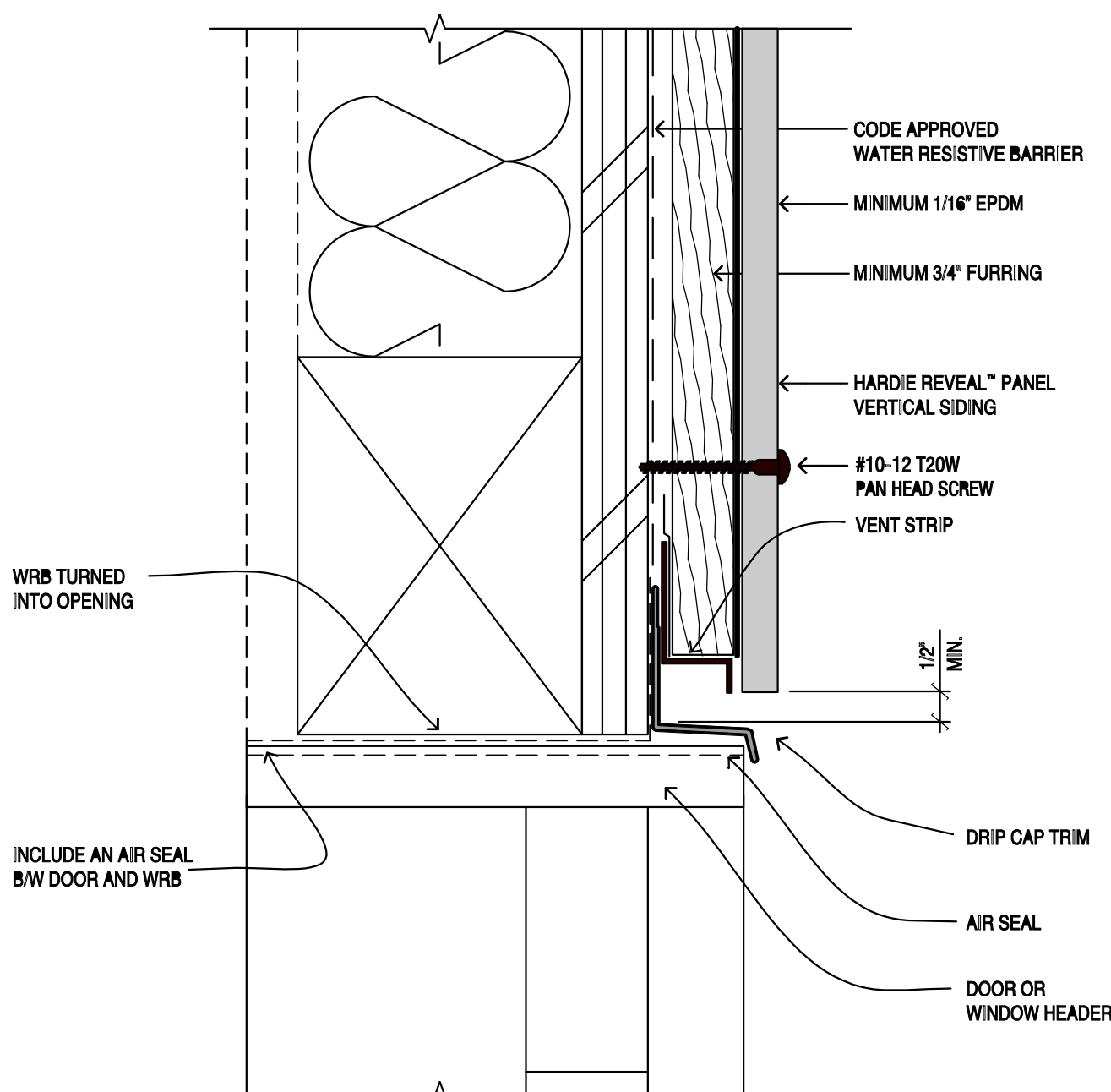
9 HARDIE PANEL OVER SOFFIT



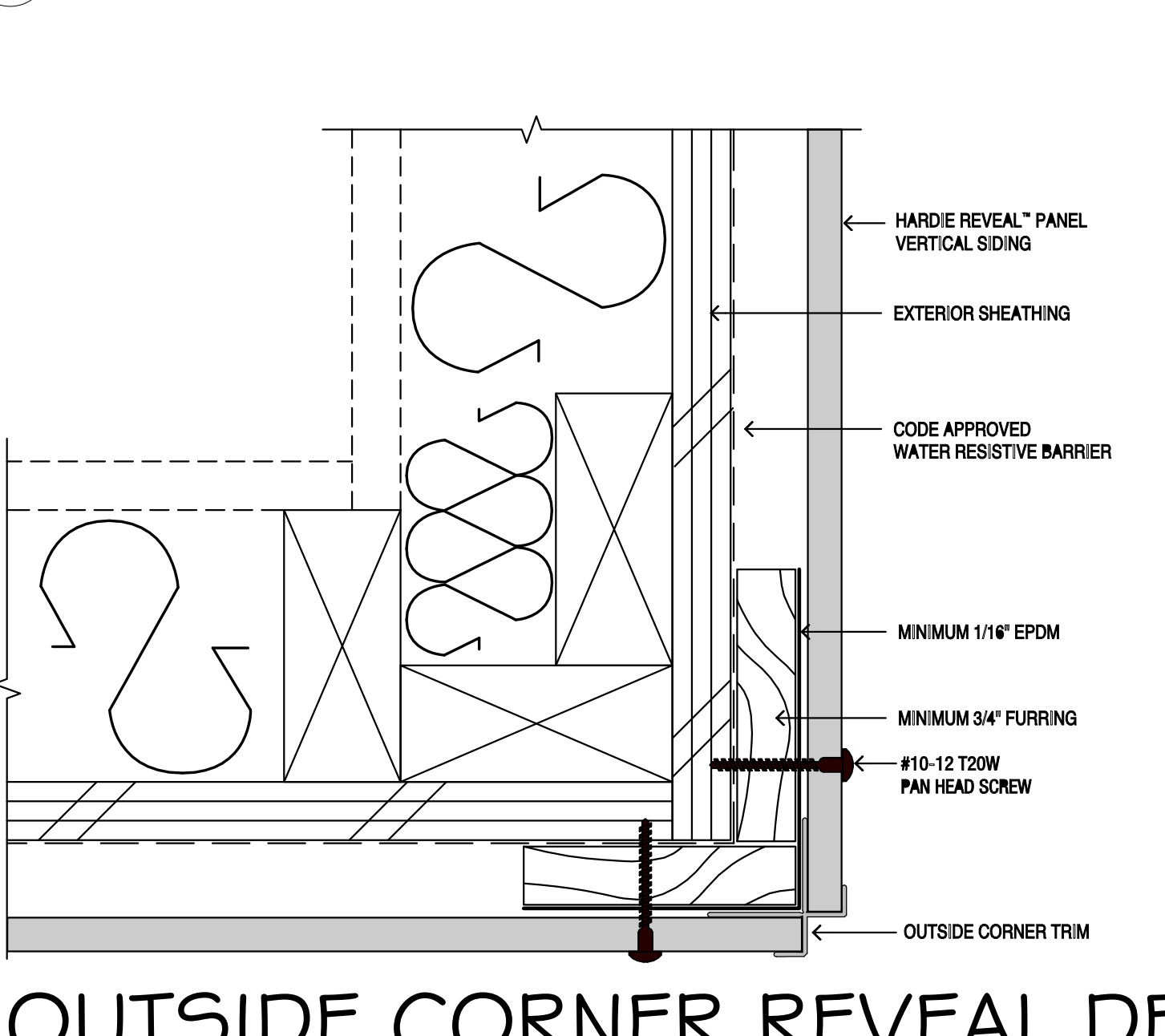
4 VERTICAL REVEAL DETAIL



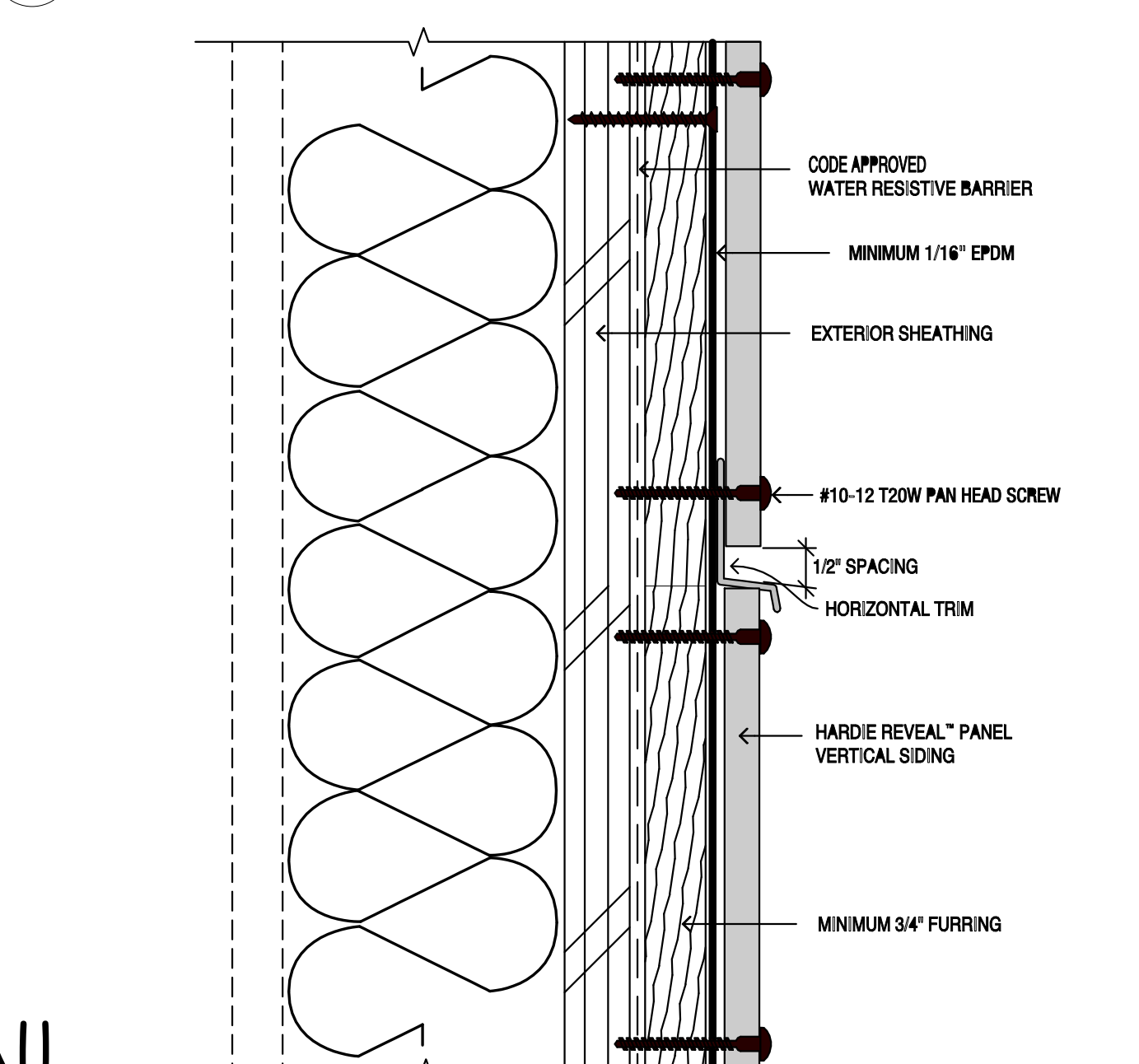
1 HARDIE PANEL AT GRADE



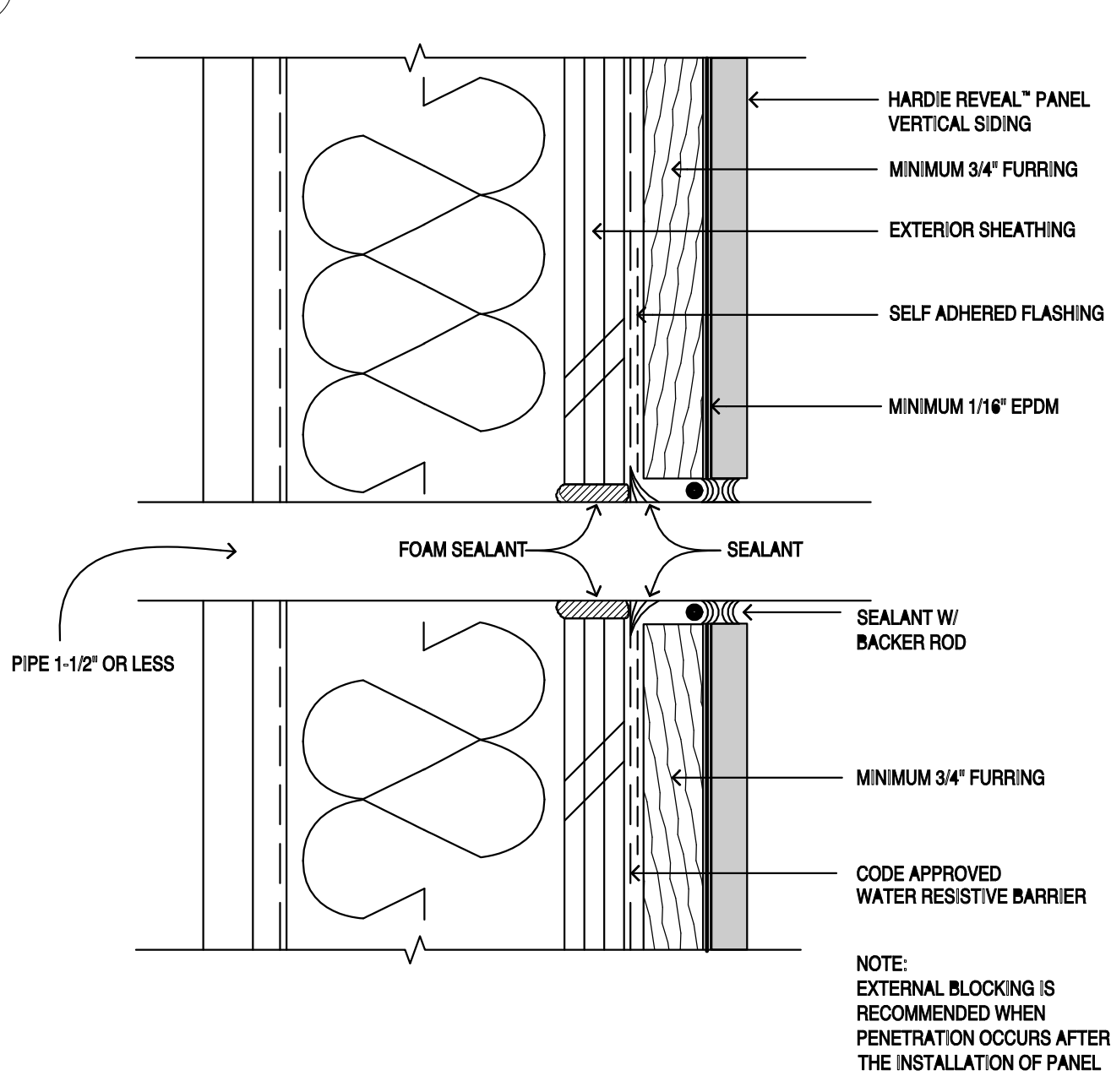
10 HARDIE PANEL OVER DOOR



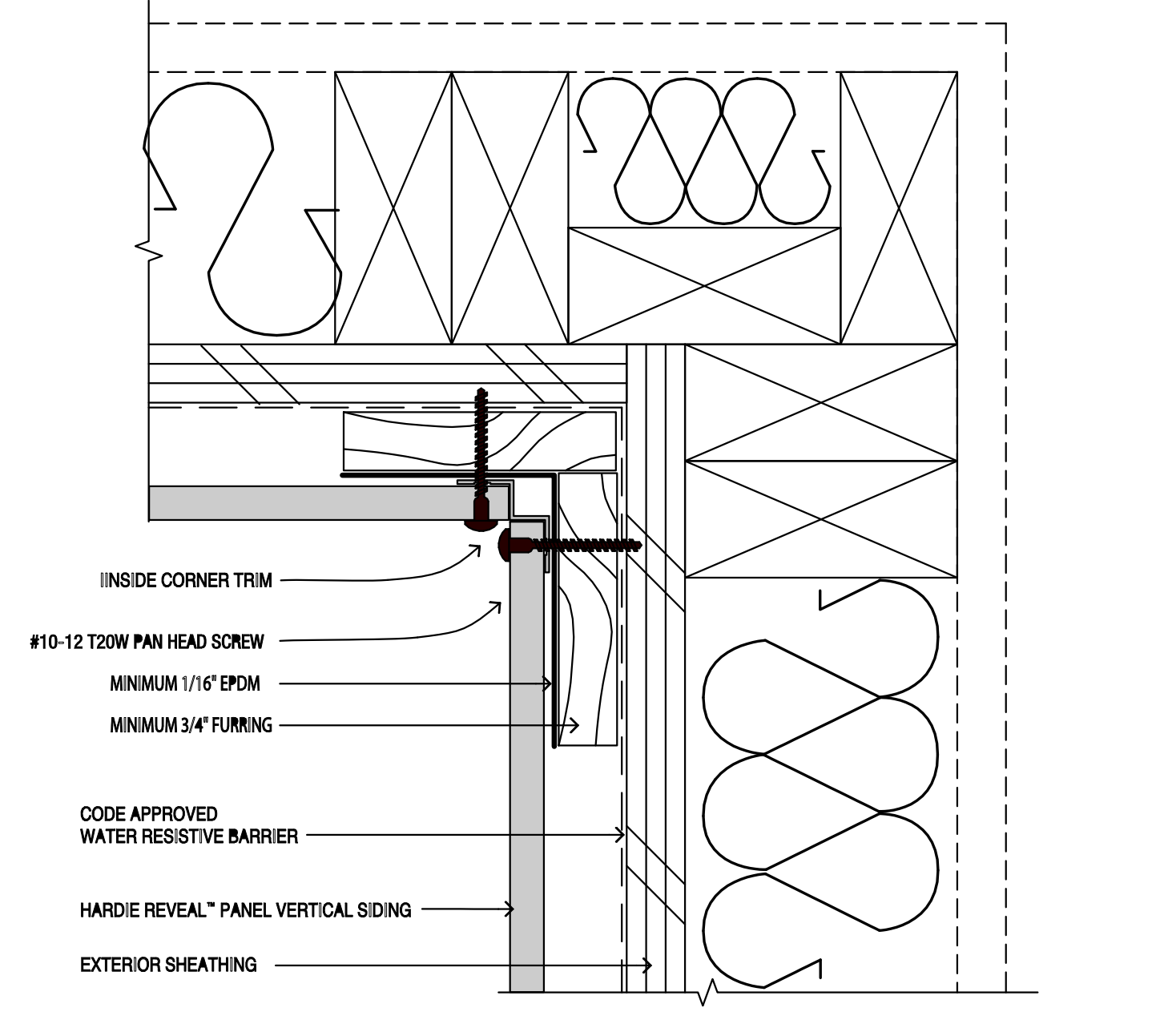
5 OUTSIDE CORNER REVEAL DETAIL



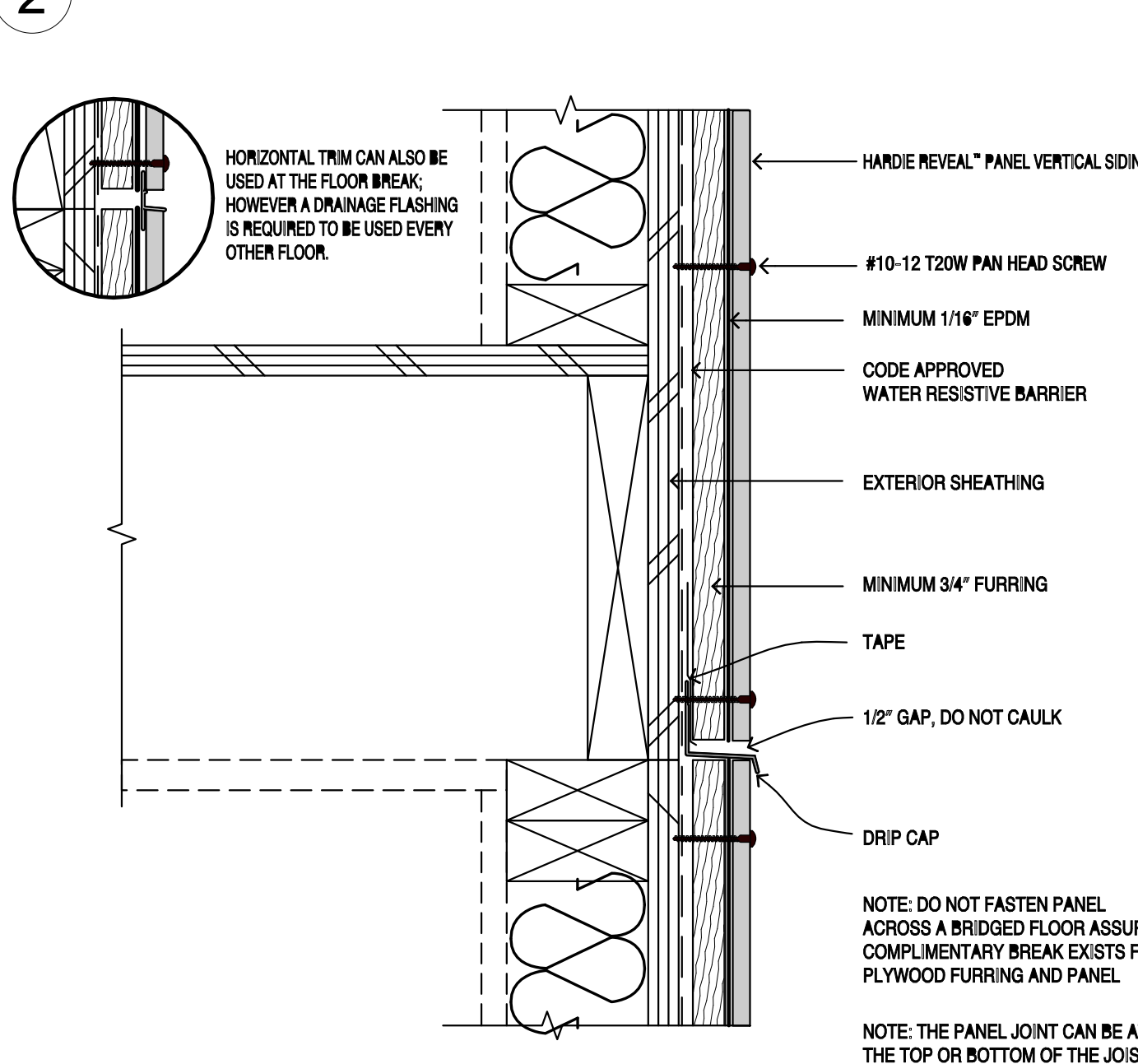
2 HARDIE PANEL DETAIL 1



15 HARDIE PANEL WITH PIPE



6 INSIDE CORNER REVEAL DETAIL



3 HARDIE PANEL DETAIL 2

NO.	DATE	REVISIONS
JOB NO. SHRLM-001	DATE: 6/26/2017	REVISION Description
DWN BY: Author	CHKD BY: Checker	
RVS:		