

DES - CLT CLASSROOMS

DEPARTMENT OF ENTERPRISE SERVICES (DES)

1801 E BLACKBURN RD, MOUNT VERNON, WA 98274

DESIGN DEVELOPMENT

09.26.2016

mahlum

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MAHLUM ARCHITECTS INC



DEPARTMENT OF ENTERPRISE SERVICES (DES) DES - CLT CLASSROOMS

1801 E BLACKBURN RD, MOUNT VERNO

ISSUE DATE: 09

PROJECT: 2106913

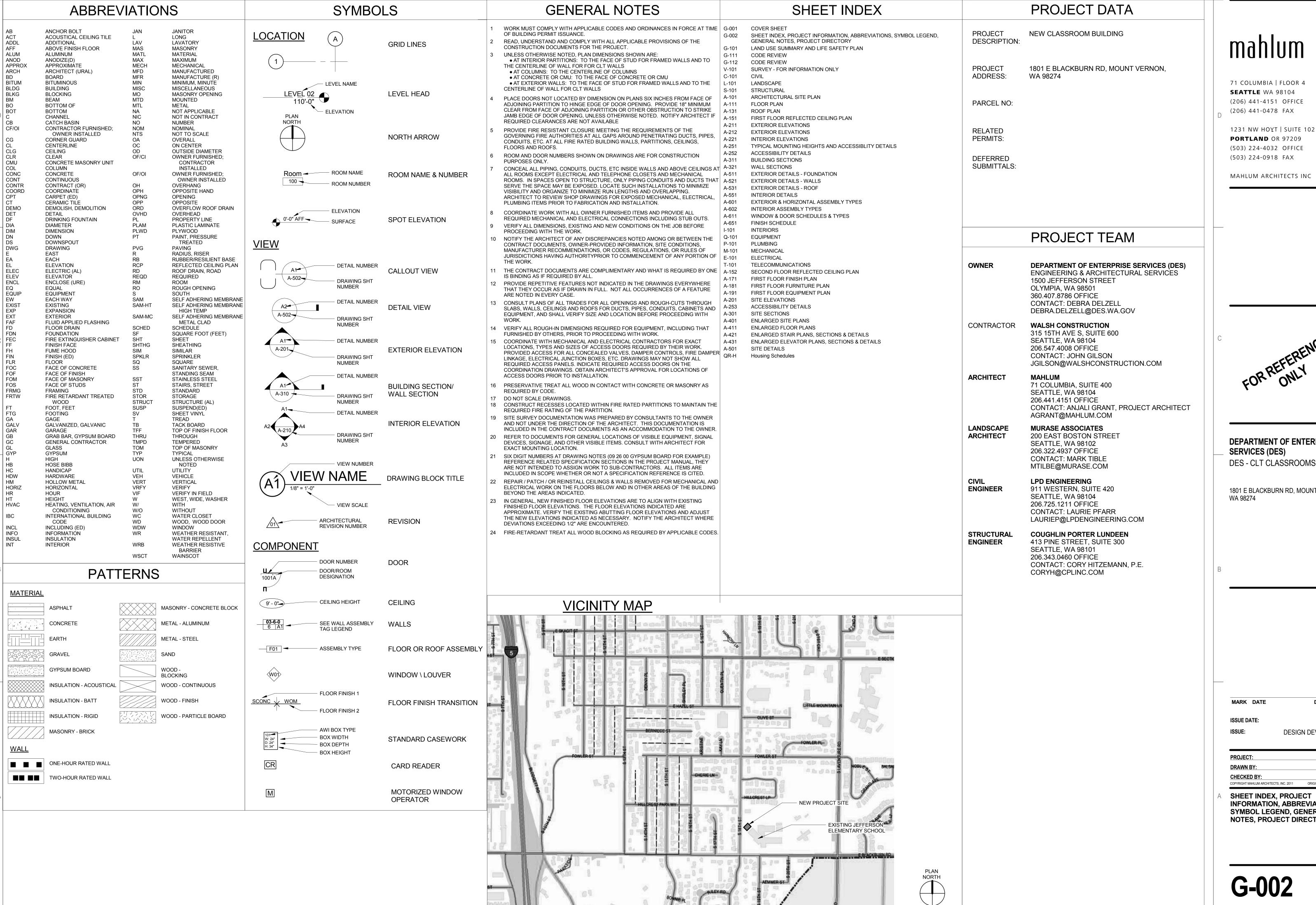
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SHEET INDEX, PROJECT INFORMATION, ABBREVIATIONS, SYMBOL LEGEND, GENERAL **NOTES, PROJECT DIRECTORY**

LAND USE SUMMARY

MOUNT VERNON MUNICIPAL...

PROJECT ADDRESS 1801 E Blackburn Rd, Mt Vernon, WA 98274

Department of Enterprise Services (DES) OWNER Mount Vernon School District

TAX PARCEL NUMBER(S) P28271

LEGAL DESCRIPTION (10.1400 ac) TAX 22 PTN S1/2 SE1/4 NE1/4 BAT INT OF ELI OF SE1/4 NE1/4 TH N ALG BURCH RD 630 FT TO N LI OF S1/2 TH E ALG N LI 691.43 FT TH S 630FT TO N LI CO RD TH W 691.43 FT TPB

JEFFERSON SCHOOL

ZONING

ACTUAL USE Educational (Classrooms)

ADJACENT ZONING R-1, 5.0 (High-Density Single Family)

SITE SIZE Existing Jefferson Elementary School Campus: 10.4 acres

SITE COVERAGE Per 17.30.050, There are no limitations on lot area and width. (Ord. 3315,

2006; Ord. 2352, 1989).

Per 17.30.071, Maximum Land Coverage repealed by Ord. 3267. (Ord.

2352, 1989).

Public (P)

PROPOSED BUILDING SITE COVERAGE 3,960 sf

EXISTING SITE IMPERVIOUS SURFACE AREA

PROPOSED IMPERVIOUS SURFACE AREA

PROPOSED BUILDING AREA

3,960 sf (TO EXTERIOR FACE OF CLADDING)

BUILDING HEIGHT

Per 17.30.080, Maximum building height in the P district shall be four stories, but not more than 50 feet. Building height in excess of four stories or 50 feet may be approved through the conditional use process. Uninhabitable portions of structures such as a church spire, fleche, campanile or high nave, a dome and lantern or a clock tower may be permitted to exceed the height limit; provided, such appurtenances are not intended as advertising devices. (Ord. 3315, 2006; Ord. 2352, 1989).

PROPOSED BUILDING HEIGHT

20'-9" (See Architectural Elevations)

SETBACKS

Per 17.30.060, Minimum setback requirements are as follows:

A. Front yard: 10 feet. Buildings on corner lots and through lots shall observe the minimum setback on both streets. For properties that front on an arterial, the minimum setback from the right-of-way shall be 25 feet. The community and economic development and public works directors can through a Type I decision process administratively reduce, for good

cause shown, this setback.

B. Side and rear yards: none, except along any property line adjoining a residentially zoned district, with no intervening street or alley, there shall

be a setback of 20 feet. (Ord. 3429 § 78, 2008).

PROPOSED SETBACKS

20'-1" (See Architectural Site Plan)

PARKING REQUIREMENTS

Per 17.30.110, Parking shall be provided pursuant to the terms of

Chapter 17.84 MVMC. (Ord. 3315, 2006; Ord. 2352, 1989).

Per 17.84.030, The minimum number of off-street parking spaces shall be as follows for the listed uses. Please note that when calculating the number of required spaces, do not round the number of spaces up or down. G. Educational Activities: 1. Elementary and middle schools: three parking spaces for each two teaching stations, plus adequate visitor

parking;

None

REQUIRED PARKING STALLS

PROPOSED STRATEGY

SIGNAGE

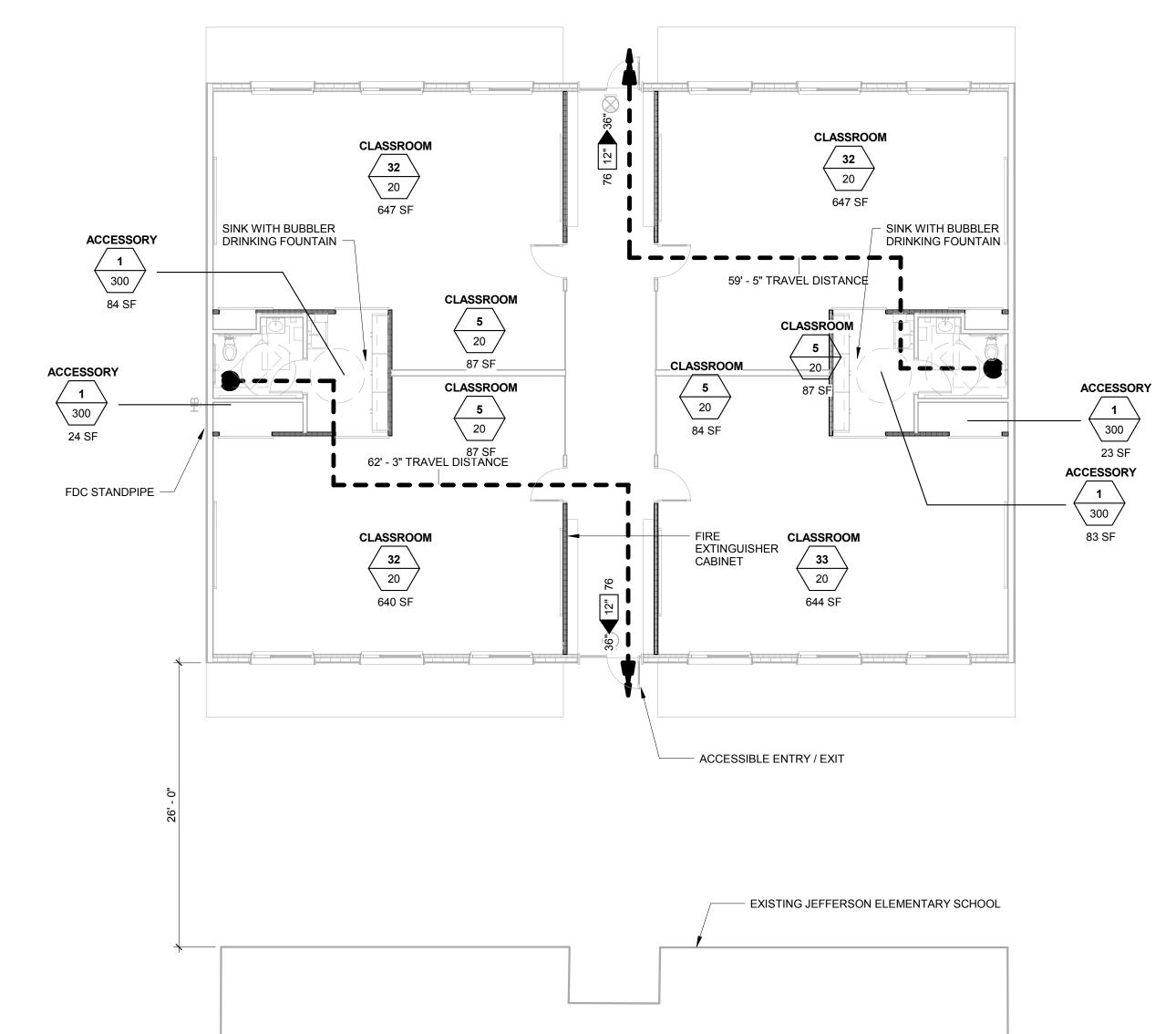
Per 17.30.120, Signs shall meet the requirements as provided in Chapter 17.87 MVMC for a comprehensive sign plan. (Ord. 3315, 2006; Ord.

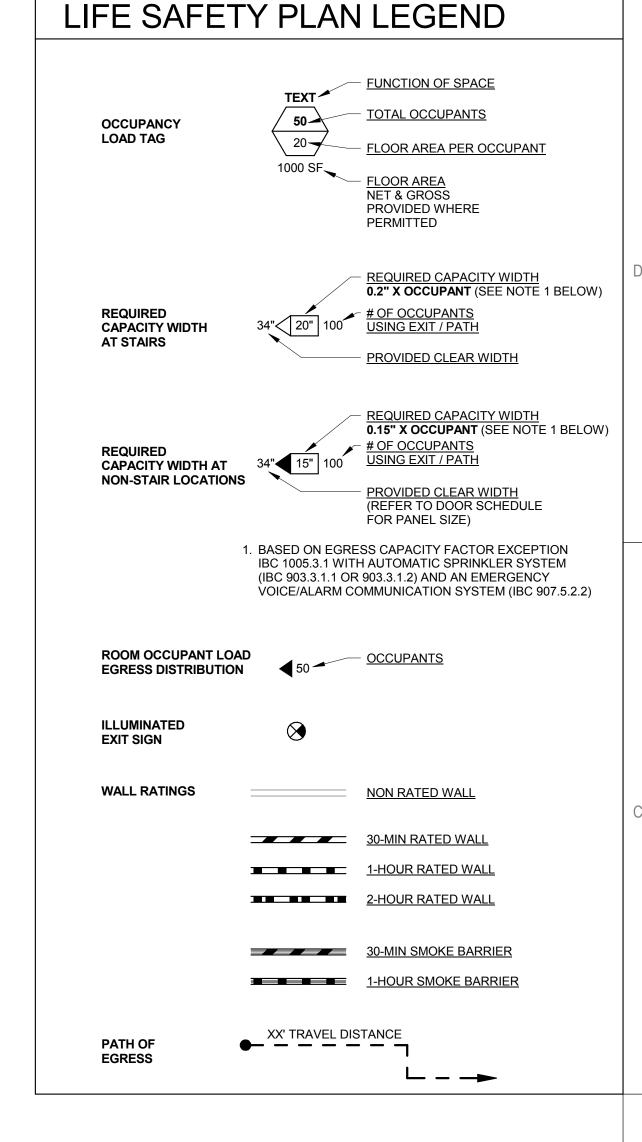
2352, 1989). No new exterior signage proposed.

ENVIRONMENTALLY CRITICAL AREAS Per 15.06.095, The city establishes the following exempt levels for minor new construction under WAC 197-11-800(1)(c) based on local conditions, except when undertaken wholly or partly on lands within designated, environmentally sensitive areas (WAC 197-11-908): For office, school, commercial, recreational, service or storage buildings in WAC 197-11-800(1)(b)(iii): up to 12,000 square feet and up to 40 parking

spaces, cumulative

SEPA REVIEW No SEPA required based on project size





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LAND USE SUMMARY AND LIFE **SAFETY PLAN**

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(A1) L01 FIRE LIFE SAFETY PLAN

1/8" = 1'-0"

PROJECT DESCRIPTION

The 3,960 sf project consists of four K-3 classrooms, two accessible shared toilet rooms and a common corridor. The project is located on the existing Jefferson Elementary School site, separated by 26 feet from the Elementary School building. The new structure is on the west side of the school campus, ajdacent to South 18th Street. The project is Type VB construction with no fire-resistive rated assemblies. The building is fully NFPA 13 sprinklered.

APPLICABLE BUILDING CODES

2012 INTERNATIONAL BUILDING CODE, CHAPTERS 51-50 WAC 2012 INTERNATIONAL MECHANICAL CODE, CHAPTERS 51-52 WAC 2012 UNIFORM PLUMBING CODE, CHAPTER 51-56, 51-57 WAC 2012 INTERNATIONAL FIRE CODE 2012 INTERNATIONAL ELECTRICAL CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE, CHAPTERS 51-11R WAC 2009 ICC/ANSI A117.1 2015 NFPA 101 LIFE SAFETY CODE

CURRENT WASHINGTON ADMINISTRATIVE RULES AND BULLETINS (JUNE 15, 2015)

2012 INTERNATIONAL BUILDING CODE: REVIEW

CHAPTER 3. USE AND OCCUPANCY CLASSIFICATION

Section 305 - EDUCATIONAL GROUP E

303.1.3	ASSEMBLY GROUP A, Associated with Group E occupancies
	A room or space used for assembly purposes that is associated with a Group E occupance
	is not considered a separate occupancy.

305.1 GROUP E

Educational Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade.

CHAPTER 5. GENERAL BUILDING HEIGHTS AND AREAS

GENERAL BUILDING HEIGHT AND AREA LIMITATIONS

PROPOSED BUILDING AREAS

Building	Construction Type	Level 1	Total SF
1	Type VB	3,960 sf	3,960 sf

Table 503 Allowable Building Heights and Areas

Educational	Occupancy
-------------	-----------

Educational Occupancy			
	Height (FT)	Stories	Area (SF per floor)
Type VB	40	1	9,500

Building Height

Automatic sprinkler system increase.

Where a building is equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, the value specified in Table 503 for maximum building height is increased by 20 feet and the maximum number of stories is increased by one.

Building Area Modifications

506.1

General The Building Areas limited by Table 503 shall be permitted to be increased due to frontage I(f) and automatic sprinkler system protection I(s) in accordance with Equation 5-1:

Allowable area per story = Tabular area + Increase for frontage + Increase for sprinklers

Frontage Increase.

Area increase for frontage = (Perimeter fronting a public way / Perimeter - 0.25) * Width/30

Building	Frontage		Area Increase
1	254 ft / 25	0.75	0.50

Automatic sprinkler system increase.

Where a building is equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, the building area limitation in Table 503 is permitted to be increased by an additional 200 percent.

Adjusted Allowable Building Heights and Areas

	Building Type	Height (FT)	Stories	Area (SF per floor)	
	1 VB	60	2	19,000	
508.2	Accessory Occupan	cies			
	Accessory occupancie	es are those occupancie	s that are ar	ncillary to the main occupan	cy of
508.2.1	00 0	•		than 10 percent of the build	_

area of the story in which they are located and shall not exceed the tabular values in Table

503, without building area increases per Section 506 for such accessory occupancies. No separation is required between accessory occupancies and the main occupancy.

Table 509 - Incidental Accessory Occupancies

Furnace room with equip. over 400,000	1 hour or automatic sprinkler system
Rooms with boilers where the largest pie	1 hour or automatic sprinkler system
Laboratories and vocational shops located in E occupancies	1 hour or automatic sprinkler system
Laundry room over 100 sf	1 hour or automatic sprinkler system

CHAPTER 6. TYPES OF CONSTRUCTION

rable 501. The Resistance Rating Requirements for Banang Liements (from 5)	
Building Element	Type VB
Primary structural frame	0
Bearing walls - exterior	0
Bearing walls - interior	0
Nonbearing walls and partitions - exterior	0
Nonbearing walls and partitions - interior	0
Floor construction	0
Roof construction	0

Table 601: Fire Resistance Rating Requirements for Building Elements (Hours)

Table 602: Fire Resistance Rating Requirements for Exterior Walls Based on Fire Separation

1 hour required for separation distances 10 feet or less

CHAPTER 7. FIRE AND SMOKE PROTECTION FEATURES

Buildings on the same lot

Projections

704 704.1	Fire-Resistance Rating of Structural Members Requirements.	
	The fire-resistance ratings of structural members and assemlies shall comply with this sectin and the requirements for the type of construction as specified in Table 601. The fire-resistance ratings shall not be less than the ratings required for the fire-resistance-rated assemblies supported by the structural members.	
705	Exterior Walls	

Table 705 2 Minimum Distance of Projection	
Cornices, eave overhangs, exterior balconies and similar projections beyond the exterior wa	

Table 705.2 Minimum Distance of Projection	
Fire Separation Distance	Minimum Distance from Line Used to Determine FSD
5 feet or greater	40 inches

For the purposes of determining the required wall opening protection, projections and roof-covering requirements, buildings on the same lot shall be assumed to have an imaginar...

Allowable area of openings. The maximum area of unprotected and protected opening permitted in an exterior wall in any

story of a building shall not exceed the percentages specified in Table 705.8.

Exception: 1 - Unlimited unprotected openings are permitted in the first story above the grade plane either: 1.1: Where the wall faces a street and has a fire separation distance of more than 15 feet; or 1.2: Where the wall faces an unoccupied space. The unoccupied space shall be on the same lot or dedicated for public use, shall not be less than 30 feet n width and shall have access from street by a posted fire lane in accordance with the International Fire Code.

Exception: 2. Buildings whose exterior bearing walls, exterior nonbearing walls and exterior primary structural frame are not required to be fire-resistance rated shall be permitted to have unlimited unprotected openings.

Parapets

706

706.1

705.2

Parapets shall be provided on exterior walls of buildings, except where exempt by this section. Exceptions: A parapet need not be provided on an exterior wall where any of the following

conditions exist: 1. The wall is not required to be fire-resistance rated in accordance with Table 602 because ...

General. Each portion of a building separated by one or more fire walls that comply with the provisioins of this section shall be considered a separate building. The extent and location of such fire

walls shall provide a complete separation. Table 706.4: Fire Wall Fire-Resistance Rating (hours)

Group E: 3 Hours 707 Fire Barriers

	i iio Baiiioi
707.1	General.

Fire Walls

Fire barriers installed as required elsewhere in this code or the Internatinal Fire Code shall...

717 **DUCTS AND AIR TRANSFER OPENINGS**

717.1 General.

The provisions of this section shall govern the protection of duct penetrations and air transfer openings in assemblies required to be protected and duct penetrations in...

Ducts that penetrate nonfire-resistance-rated assemblies. The space around a duct penetrating a nonfire-ristance-rated floor assembly shall comply with Section 717.6.3

Nonfire-resistance-rated floor assemblies. Duct systems constructed of approved materials in accordance with the International Mechanical Code that penetrate nonfire-resistance-rated floor assemblies shall be protected by any f the following methods:

2. The duct connects not more than two stories, and the annular space around the penetrating duct is protected with an approved noncombustible material that resists the free passage of flame and the products of combustion

CHAPTER 8. INTERIOR FINISHES

803.9	Interior finish requirements based on group. Interior wall and ceiling finish shall have a flame
	spread index not greater than that specified in Table 803.9 for the group and location
	designated

designated. TABLE 803.9 INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY

Interior exit stairways, interior exit ramps and exit passageways		Rooms and enclosed spaces	
exit ramps and exit	exit access	spaces	

CHAPTER 9. FIRE PROTECTION SYSTEMS 903.2.3 Group E.

	An automatic sprinkler system shall be provided for Group E occupancies.
903.3.1.1	NFPA sprinkler systems.
	Where the provisions of this code require that a building or portion therof be equipped
906.1	PORTABLE FIRE EXTINGUISHERS: Where required.
	Portable fire extinguishers shall be installed in the following locations: 1. In Group E
	Table 906.3(1): Fire Extinguishers for Class A Fire Hazards
	Ordinary (Moderate) Hazard Occupancy:
	Minimum Rated Single Extinguisher: 2-A
	Maximum Floor Area Per Unit of A: 1,500 square feet
	Maximum Floor area for Extinguisher: 11,250 square feet

Maximum Travel Distance to Extinguisher: 75 feet

FIRE ALARM AND DETECTION SYSTEMS: General. This section covers the application, installation, performance and maintenance of fire alarm...

CHAPTER 10. MEANS OF EGRESS

Protruding Objects

Protruding objects shall comply with the requirements of Sections 1003.3.1 through 1003.3.4

1003.3.3 Horizontal projections.

Structural elements, fixtures or furnishings shall not project horizontally from either side more than 4 inches over any walking surface between the heights of 27 inches and 80 inches above the...

Occupant Load

Maximum Floor Area Allowances per Occupant	Table 1004.1.2
Function of Space	Floor Area in Sf/Occupant
Educational: Classroom area	20 net
Accessory storage, mechancial and equipment	300 gross

Means of Egress Sizing, Required capacity based on occupant load - Other egress

The capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity fact...

Exception: For other than H and I-2 occupancies, the capacity, in inches, of means of egress components other than stairways shall be calculated by multiplying the occupant load served by such component by a means of egress capacity factor of 0.15 inch per occupant in buildings equipped through-out with an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 and an emergency voice/alarm communication system in accordance wit...

Accessible Means of Egress required.

Accessible means of egress shall comply with this section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress are required by Section 1015.1 or 1021.1 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress.

Accessible Means of Egress: Continuity and Components.

Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components:

1 Accessible routes complying with Section 1104

8 Ramps complying with Section 1010.

Doors.

Means of egress doors shall meet requirements of this section. Doors serving a means of egress system shall meet the requirements of this section and Section 1020.2. Doors provided for egress purposes in numbers greater than require by this code shall meet the requirements of this...

Means of egress doors shall be readily distinguishable from the adjacent construction and finishes such that the doors are easily recognizable as doors. Mirrors or similar reflecting materials shall not be sued on means of egress doors. Means of egress doors shall not be...

1008.1.1 Size of doors.

The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of 32 inches.

Panic and fire exit hardware.

Doors serving a Group H occupancy and doors serving rooms or spaces with an occupant load of 50 or more in Group A or E occupancy shall not be provided with a latch or lock unless it is panic hardware or fire exit hardware.

Common path of egress travel.

The common path of egress travel shall not exceed the common path of egress travel distances in Table 1014.3.

with Sprinkler System (NFPA 13)

TABLE 1014.3 COMMON PATH OF EGRESS TRAVEL

Exit Access Travel Distance: Table 1016.2

Occupancy	with Sprinkler System (NFPA 13)
E	travel distance = 75 feet

Occupancy

Gro	up E	travel distance = 250 feet
Cor	ridors: Construction	

Corridors shall be fire-resistance rated in accordance with Table 1018.1 and shall comply with

Corridor Fire Resistance Rating: Table 1018.1

Occupancy Occ. Load with Sprinkler System (NFPA 13) Greater than 30 0-HR Fire Resistance Rating Group E 1018.2 **Corridor Width:**

Any facility not listed below: 44 inches

In Group E with a corridor having a required capacity of 100 or more: 72 inches

total required width of all means of egress leading to the exit.

Corridors: Dead Ends

Where more than one exit required, dead end corridors not to exceed 20 ft. Exceptions: In Group E occupancies 50 ft allowed in sprinklered buildings.

ASSEMBLY

1016.2

1018.1

1028.1.1 Bleachers. Bleachers, grandstands and folding and telescopic seating, that are not building elements, shall

comply with ICC 300.

Assembly main exit. In a building, room or space used for assembly purposes that has an occupant load of greater than 300 and is provided with a main exit, the main exit shall be of sufficient width to accommodate not less than one-half the occupant load, but such with shall not be less than the

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1104.2 Within a site.

At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements and accessible spaces on the same site.

ACCESSIBLE ENTERANCES

1105.1 Public enterances

In addition to accessible enterances required by Sections 1105.1.1. through 1106.1.6 at least 60 percent of all public enterances shall be accessible

OTHER FEATURES AND FACILITIES

Toilet and bathing facilities 1109.2

> Each toilet room and bathing facility shall be accessible. At least one of each type of fixture, element, control or dispenser in each accessible toilet room and bathing room shall be accessible.

Exceptions:

3. Where multiple single-user toilet rooms or bathing rooms are clustered at a single location, at least 50 percent but not less than one room for each use at each cluster shall be accessible.

6. Where toilet facilities are primarily for children's use, required accessible water closets, toilet compartments and lavatories shall be permitted to comply with children's provisions of ICC A117.1

SIGNAGE 1110

1110.1

Signs. Required accessible elements shall be identified by the International Symbol of Accessibility at the following locations:

3. Accessible rooms where multiple single-user toilet or bathing rooms are clustered at a single location.

CHAPTER 29 PLUMBING SYSTEMS TABLE 2902.1

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

PER WASHINGTON STATE AMENDMENT (MAY 16, 2014) FOR E OCCUPANCIES: THE NUMBER OF OCCUPANTS SHALL BE DETERMINED BY USING A CALCULATION OF 100 SQUARE FEET GROSS BUILDING AREA PER STUDENT FOR THE MINIMUM NUMBER...

TOTAL GROSS BUILDING AREA: 3960 SF OCCUPANT LOAD: 3960 SF / 100 = 40 OCCUPANTS

3. EDUCATIONAL

SEX	OCCUPANT LOAD		PROVIDED
M	40/ 2 = 20	1 WC / 35 X 20 = 1 WC	1
		1 LAV / 85 X 20 = 1 LAV'S	1
F	40/ 2 = 20	1 WC / 25 X 20 = 1 WC	1
		1 LAV / 50 X 20 = 1 LAV	1

DRINKING FOUNTAINS: ONE DRINKING FOUNTAIN FOR FIRST 150 OCCUPANTS, THEN ONE PER EACH ADDITIONAL 500 OCCUPANTS

PROVIDED:

2 WC'S

3 LAVS

2 DRINKING FOUNTAINS PROVIDED AT WORKROOMS (ADA ACCESSIBLE HEIGHT)

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GENERAL SITE NOTES SITE INFORMATION CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO, DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES, IS BASED ON THE SURVEY BY PACE ENGINEERS, DATED SEPTEMBER 1ST, 2016 AND IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ARCHITECT TAKES NO RESPONSIBILITY FOR ITS ACCURACY.
 CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO OR DISTURBANCE OF EXISTING UTILITIES.
 PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.
 FINISH GRADES AROUND BUILDING SHALL BE 6" MINIMUM BELOW FINISH FLOOR ELEVATION OR BOTTOM OF EXTERIOR CLADDING MATERIALS, UNLESS OTHERWISE NOTED. (206) 441-0478 FAX UNLESS OTHERWISE NOTED, DIMENSIONS ON SITE PLAN ARE TO FACE OF CURBS, EXTERIOR FACE OF BUILDING FOUNDATIONS AND GRID LINES. (503) 224-0918 FAX MAHLUM ARCHITECTS INC EXISTING FIRE HYDRANT DES - CLT CLASSROOMS NEW CLASSROOM BUILDING 20' - 1" TO ROW - EXTENT OF ROOF OVERHANG FACE OF EXTERIOR WALL 178' - 0" BASE OF WALL ELEVATION 178.8' FDC STANDPIPE -RAINGARDEN / REFER TO CIVIL DRAWINGS / - EXISTING GATE EXISTING JEFFERSON ELEMENTARY SCHOOL EXISTING
ASPHALT
HARD PLAY MARK DATE ISSUE DATE: SITE PLAN

1/16" = 1'-0"

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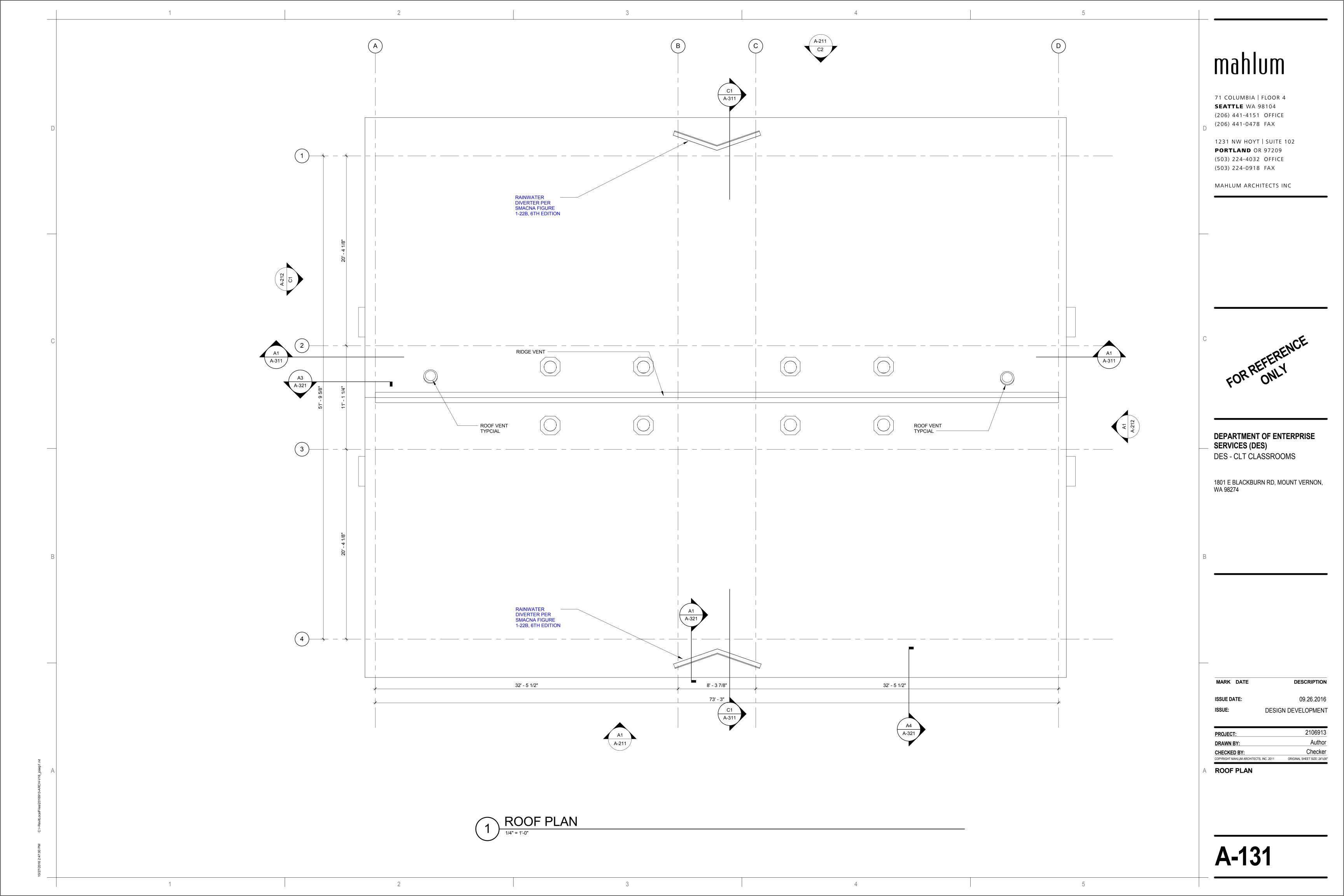
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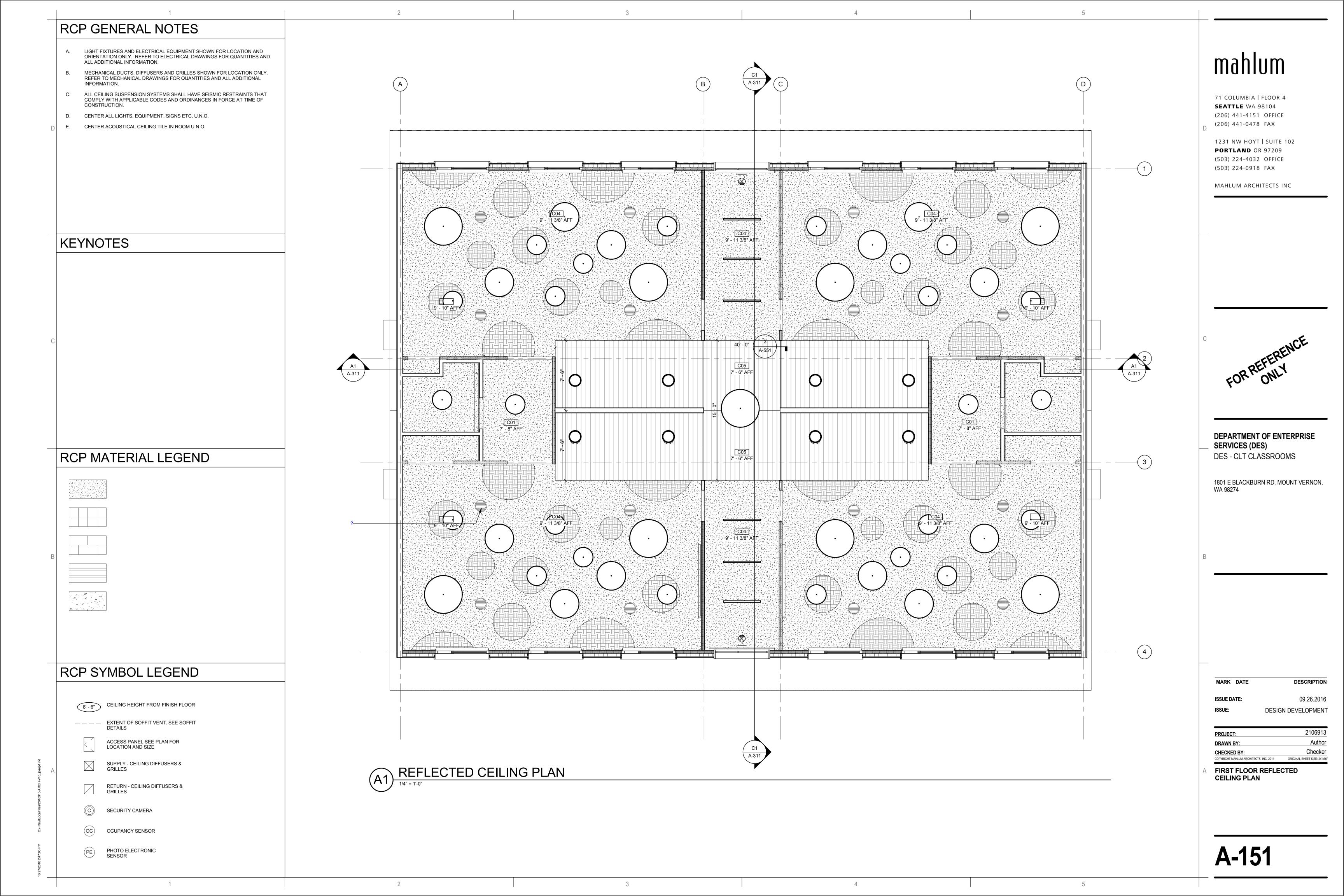
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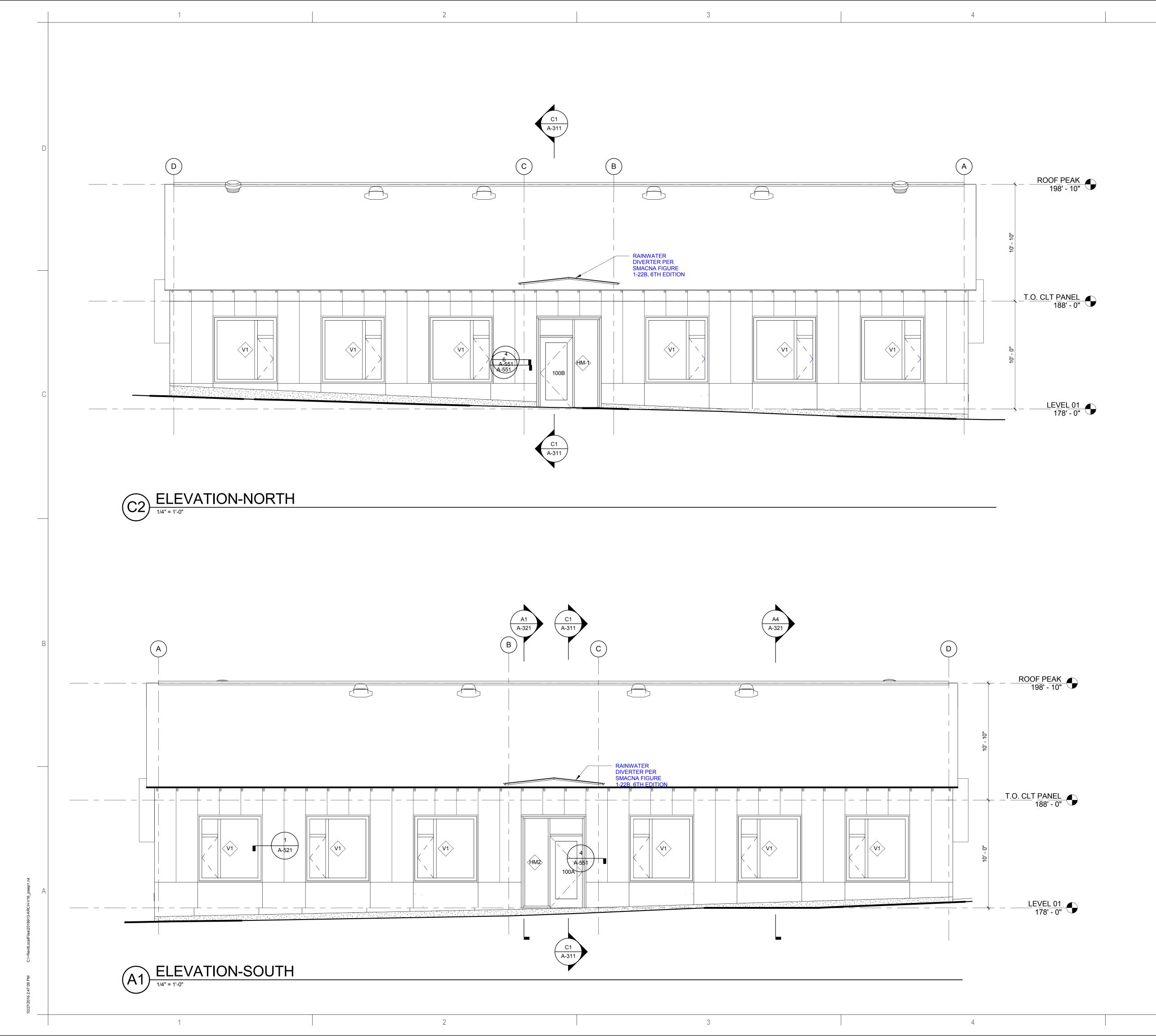
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ARCHITECTURAL SITE PLAN



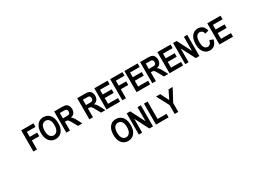






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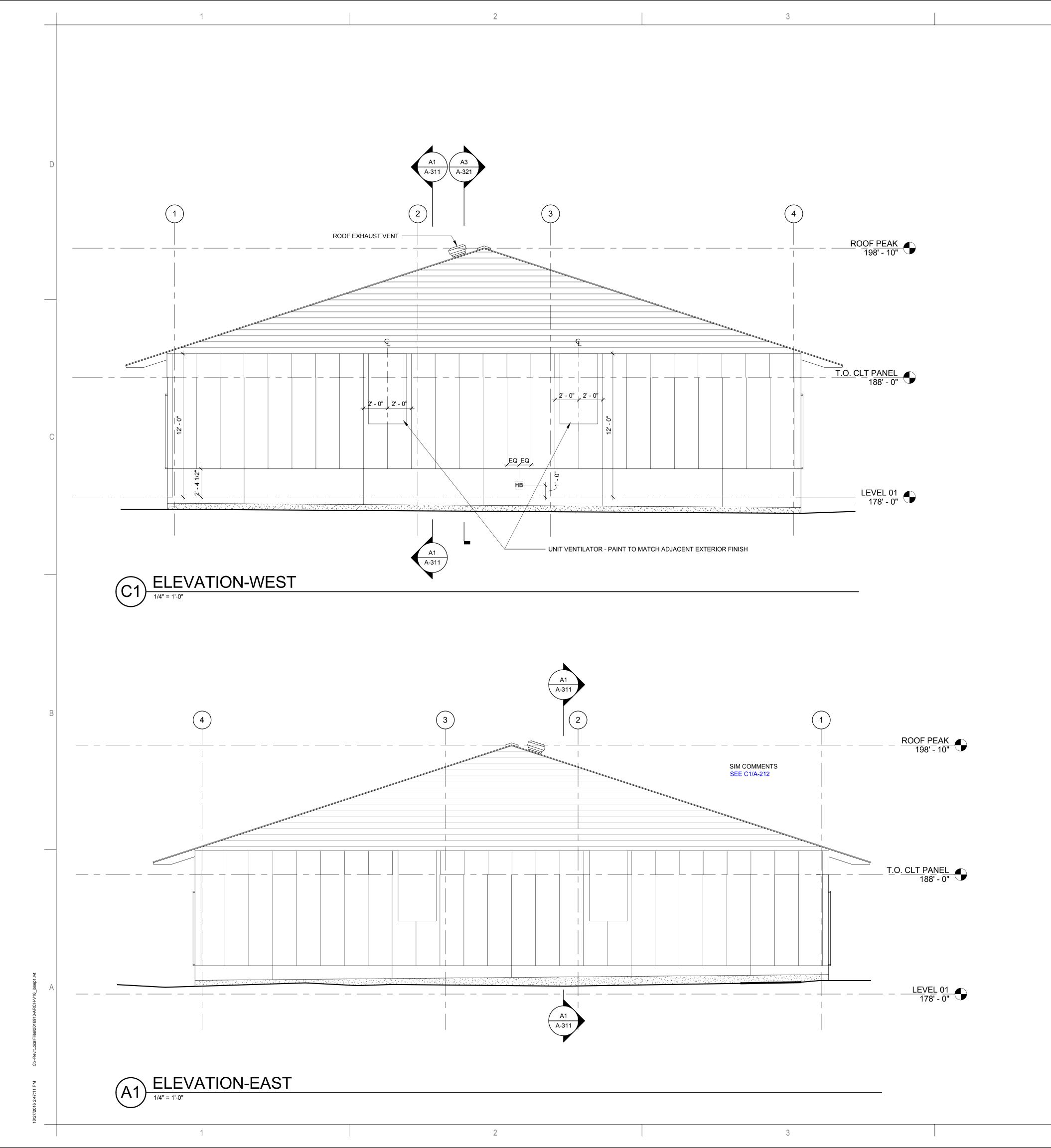
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EXTERIOR ELEVATIONS



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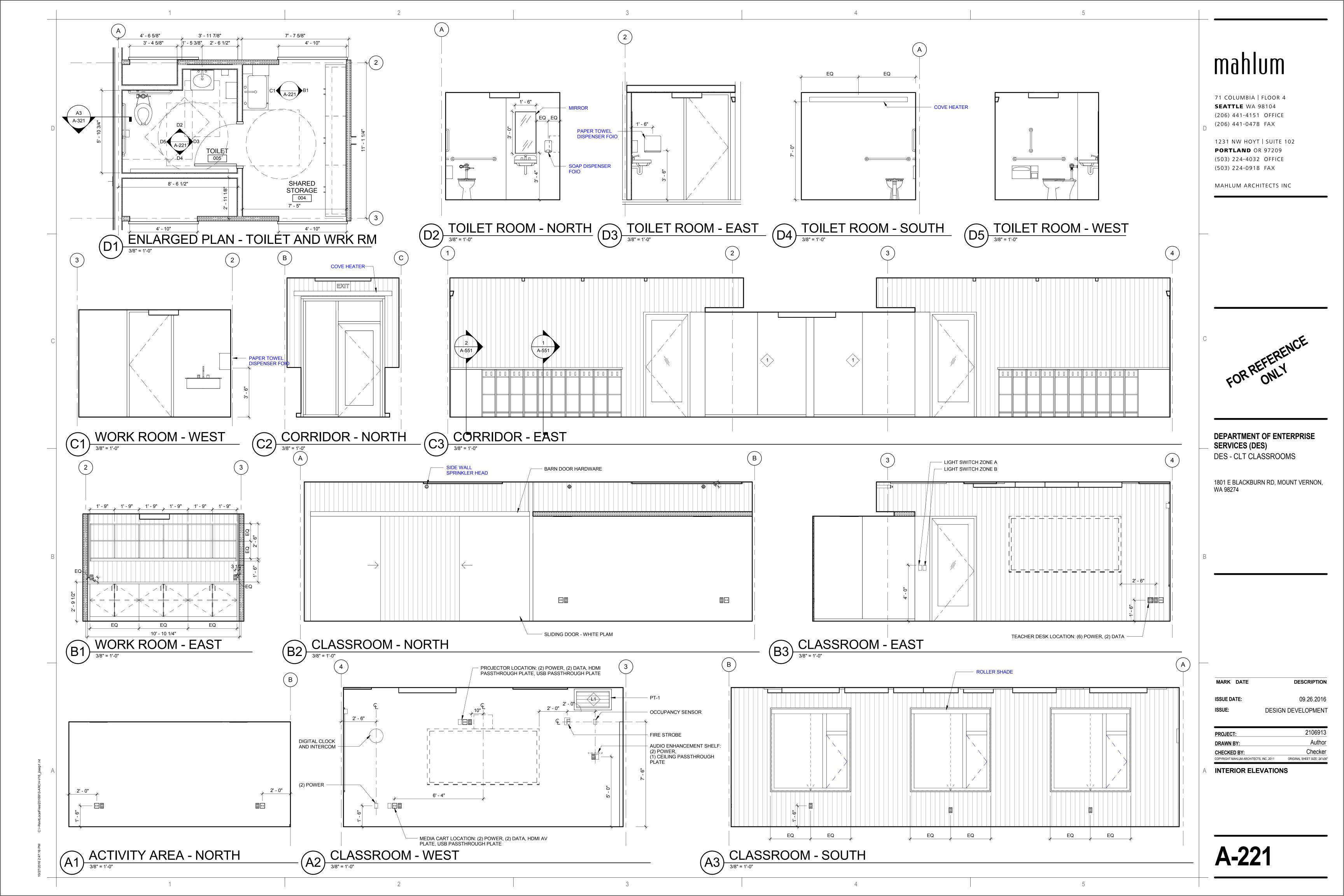
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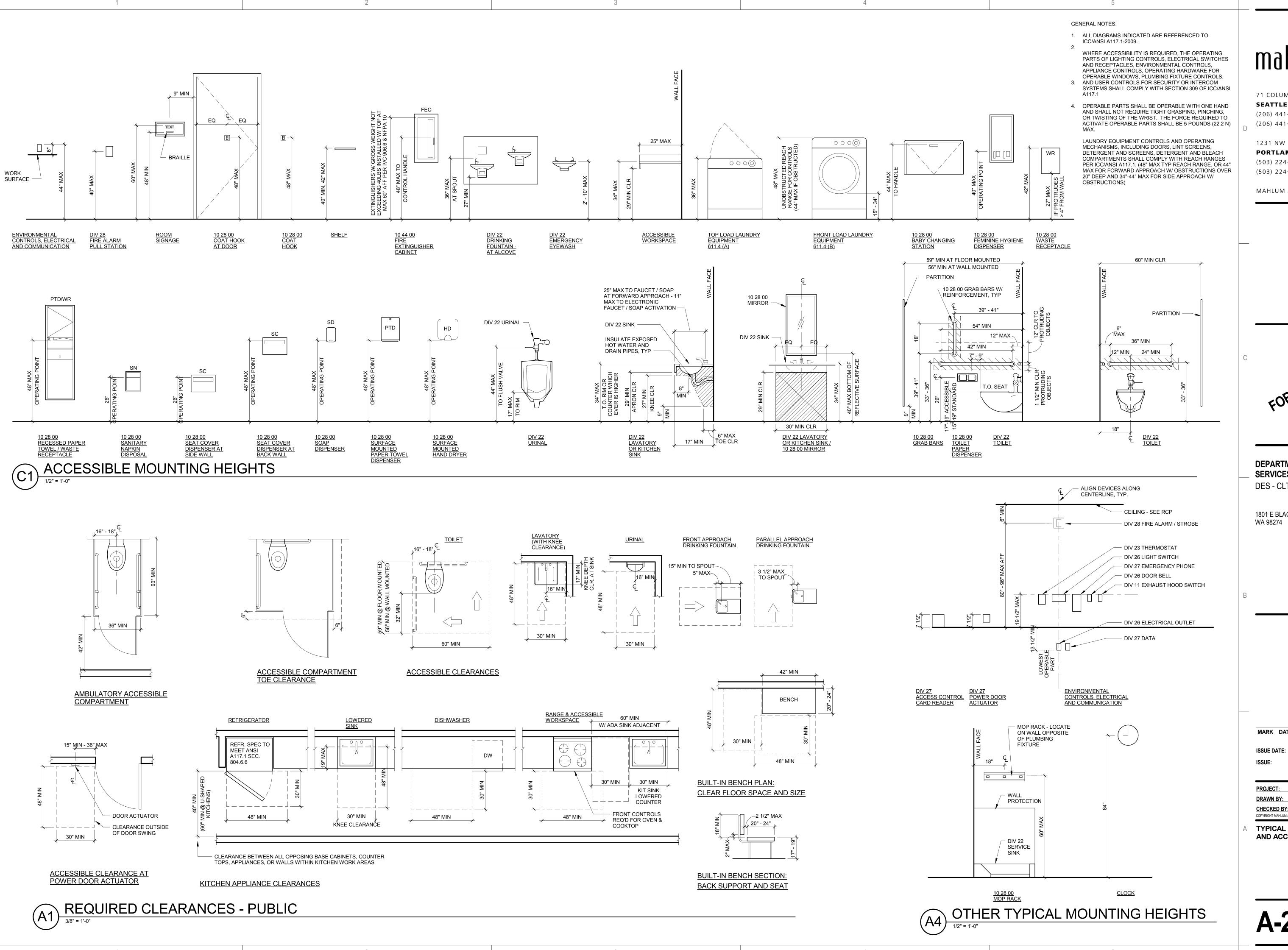
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EXTERIOR ELEVATIONS

Δ-212





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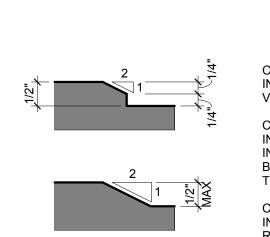
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TYPICAL MOUNTING HEIGHTS AND ACCESSIBLITY DETAILS

A-251



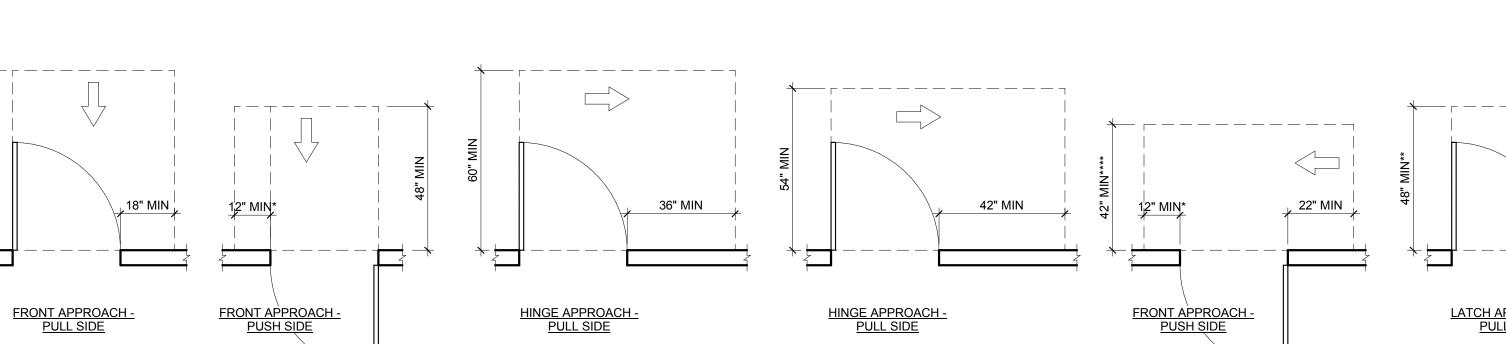
CHANGES IN LEVEL OF 1/4 INCH MAXIMUM IN HEIGHT SHALL BE PERMITTED TO BE VERTICAL.

CHANGES IN LEVEL GREATER THAN 1/4 INCH IN HEIGHT AND NOT MORE THAN 1/2 INCH MAXIMUM IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

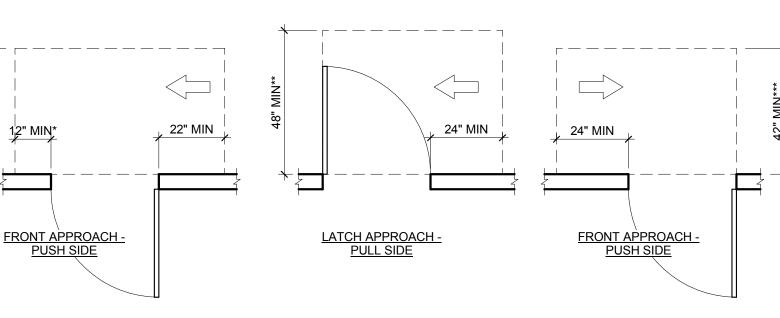
THAN 1:2.

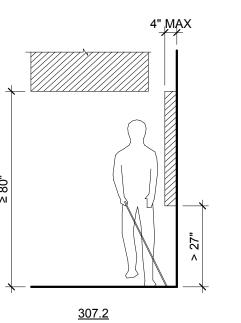
CHANGES IN LEVEL GREATER THAN 1/2
INCH IN HEIGHT SHALL COMPLY AS A
RAMP.

C1 CHANGES IN LEVEL



STOP OR LATCH APPROACH





<u>APPROACH</u>

TYPICAL SYMBOLS

60" DIA MIN

NIM "84" MIN 22" MIN 24" MIN

<u>POCKET OR</u> <u>HINGE APPROACH</u>

IF BOTH LATCH AND CLOSER ARE PROVIDED

48" MIN IF BOTH CLOSE & LATCH PROVIDED

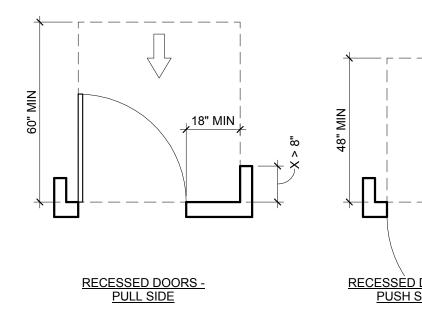
54" MIN IF CLOSER IS PROVIDED 48" MIN IF CLOSER IS PROVIDED

MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

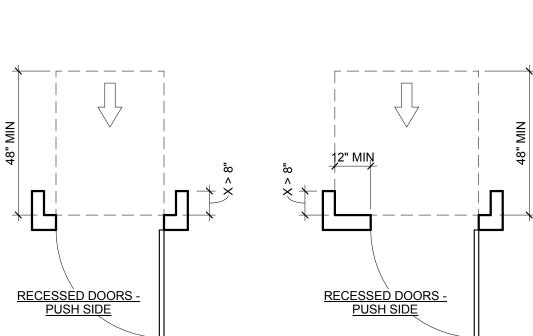
FRONT APPROACH

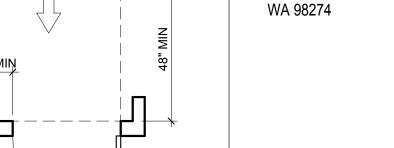
TWO DOORS IN A SERIES

MANEUVERING CLEARANCE AT SLIDING & FOLDING DOOR



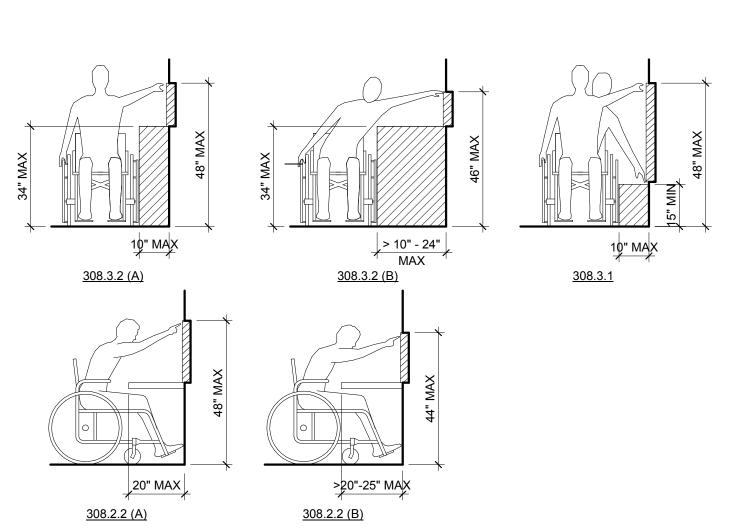
MANEUVERING CLEARANCE AT RECESSED DOORS





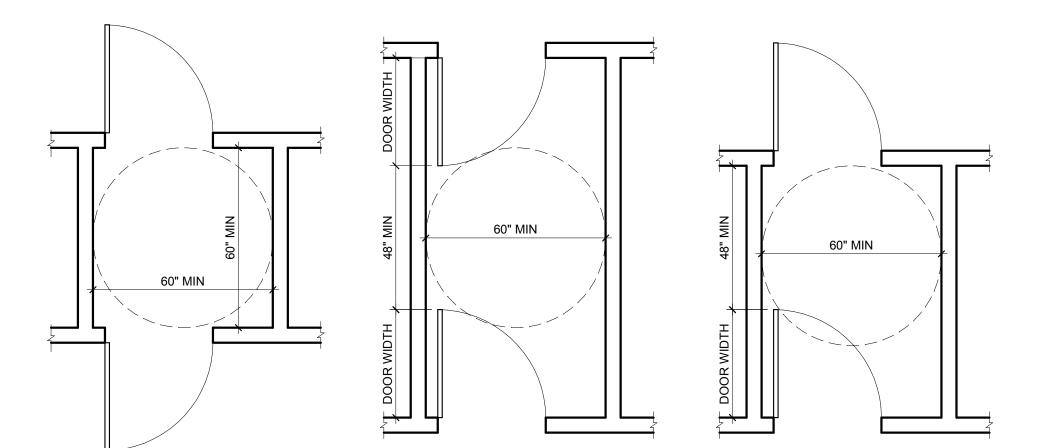
LIMITS OF PROTRUDING OBJECTS

REACH DIAGRAMS



WHEELCHAIR TURN-AROUND T-SHAPED 304.3 (B)

WHEELCHAIR CLEAR FLOOR SPACE 305.3



GENERAL DOOR NOTES:

- 1. THESE PICTOGRAPHS DO NOT DESCRIBE ALL CONDITIONS WHICH MAY BE ENCOUNTERED IN THE FIELD. THIS IS INTENDED AS A REFERENCE GUIDE FOR CODE REQUIREMENTS. SEE PLANS AND ELEVATIONS FOR SPECIFIC CONDITIONS TO APPLY THESE REQUIREMENTS. VERIFY QUESTIONS WITH ARCHITECT.
- 2. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8 POUNDS FOR EXTERIOR DOOR AND 5 POUNDS FOR INTERIOR DOORS. (WHEN ALLOWED BY THE APPROPRIATE ENFORCEMENT AGENCY, AT REQUIRED FIRE DOORS THE MAXIMUM EFFORT MAY BE INCREASED TO NOT EXCEED 15 POUNDS).
- 3. HAND ACTIVATED HARDWARE SHALL BE CENTERED BETWEEN 30 AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. SEC. 1132A.8.
- 4. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. SEC. 1126A.1, SEC 1132A.3 24.
- 5. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. SEC. 1126A.1-3, SEC 1132A.3-5 5.
- 6. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. SEC. 1126A.2.1 & FIG. 11A-81 6.
- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- 8. SLOPE WITHIN ALL DOOR CLEARANCES TO BE 1:48 MAX

MARK DATE DESCRIPTION

ISSUE DATE: 09.26.2016

ISSUE: DESIGN DEVELOPMENT

PROJECT: 2106913

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PORTLAND OR 97209

(503) 224-4032 OFFICE

MAHLUM ARCHITECTS INC

DEPARTMENT OF ENTERPRISE

1801 E BLACKBURN RD, MOUNT VERNON,

DES - CLT CLASSROOMS

SERVICES (DES)

(503) 224-0918 FAX

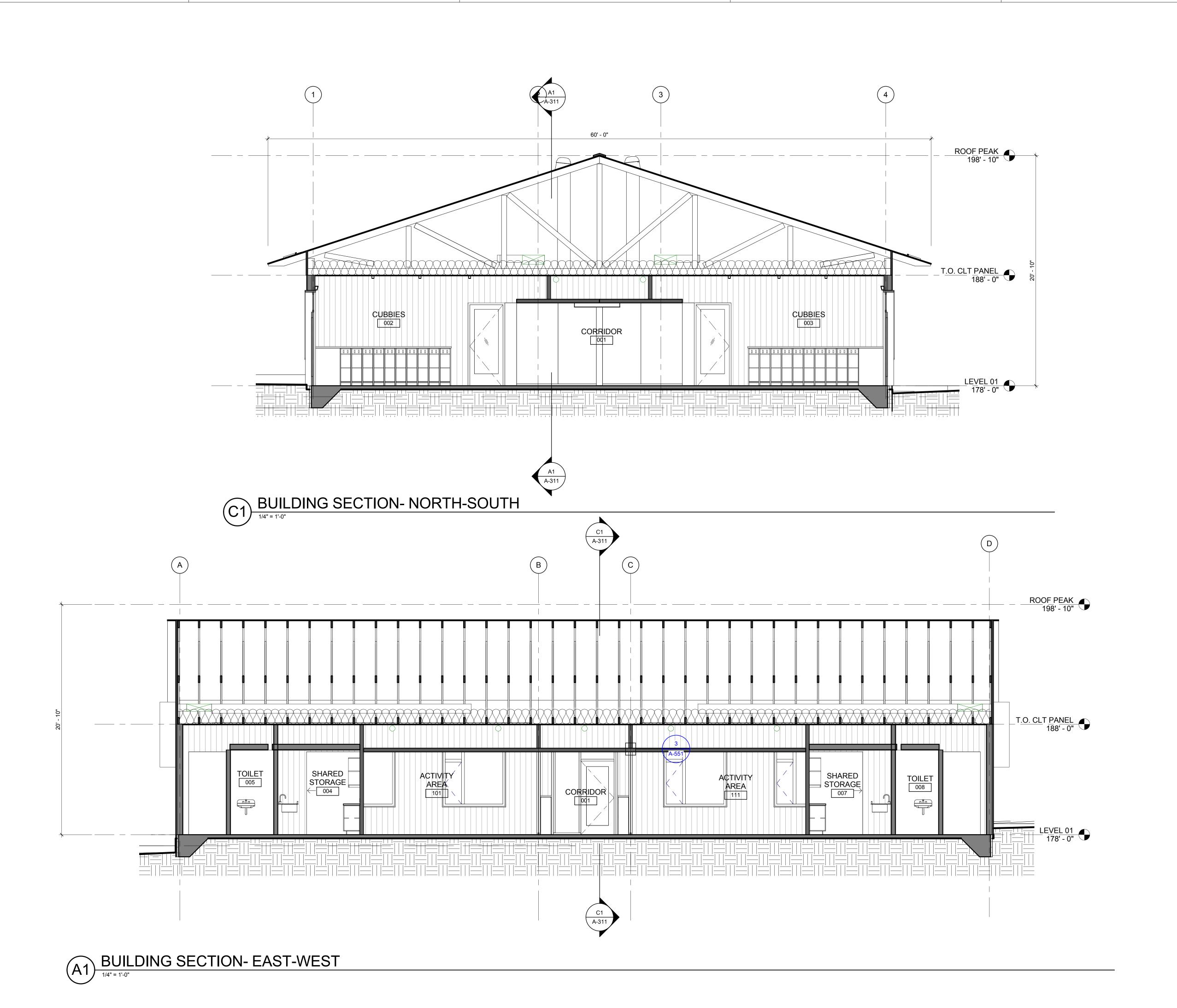
A-252

REQUIRED CLEARANCES - GENERAL

3/8" = 1'-0"

evitLocalFiles\2016913-ARCH-V16_josep1.rvt

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MAHLUM ARCHITECTS INC

FOR REFERENCE

DEPARTMENT OF ENTERPRISE SERVICES (DES) DES - CLT CLASSROOMS

1801 E BLACKBURN RD, MOUNT VERNON, WA 98274

MARK DATE

ISSUE DATE:

DESIGN DEVELOPMENT

DESCRIPTION

PROJECT: 2106913

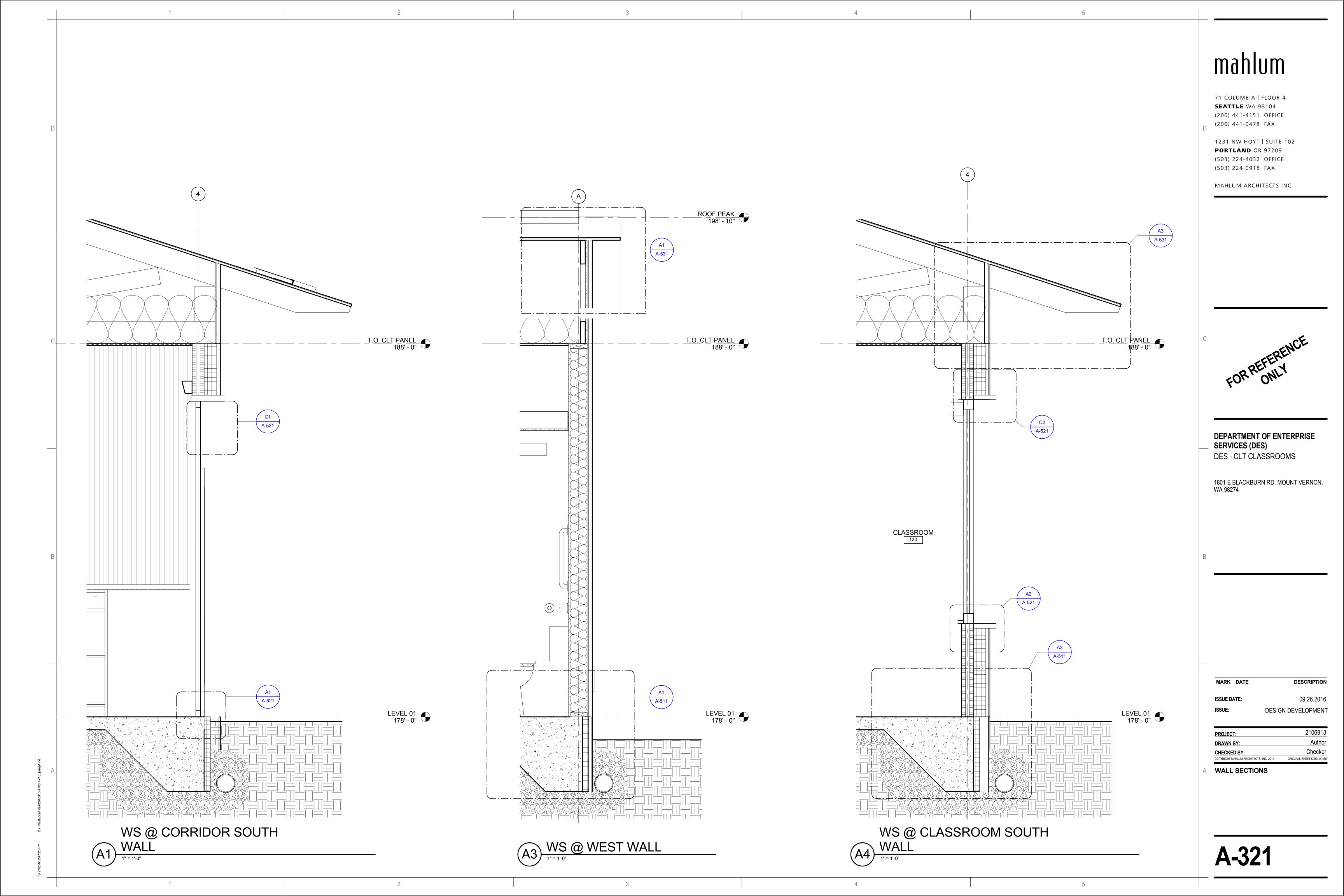
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BUILDING SECTIONS

A-31²



71 COLUMBIA | FLOOR 4 SEATTLE WA 98104 (206) 441-4151 OFFICE (206) 441-0478 FAX 1231 NW HOYT | SUITE 102 PORTLAND OR 97209 (503) 224-4032 OFFICE (503) 224-0918 FAX MAHLUM ARCHITECTS INC DEPARTMENT OF ENTERPRISE SERVICES (DES) - 07 46 46 3/4" x 3 1/2" WOOD FURRING STRIP DES - CLT CLASSROOMS - 07 31 13 #15 SATURATED FELT 07 46 46 3/4" x 3 1/2"
 WOOD FURRING STRIP ROOF UNDERLAYMENT 1801 E BLACKBURN RD, MOUNT VERNON, WA 98274 07 25 00 WRB -- 07 25 00 WRB -INSTALL PER MANUF. INSTALL PER MANUF. INSTRUCTIONS INSTRUCTIONS 07 25 00 SAF Capillary Break - 07 25 00 SAF STEEL PLATE PER STRUCTURAL 03 30 00 UNDERSLAB - 07 62 00 METAL VAPOR RETARDER Capillary Break 07 62 00 METAL **FLASHING FLASHING** 05 40 00 SILL GASKET-- 03 30 00 UNDERSLAB - 07 62 00 INSECT SCREEN 05 40 00 SILL GASKET----07 62 00 INSECT VAPOR RETARDER SCREEN LEVEL 01 178' - 0" LEVEL 01 178' - 0" - GRAVEL EDGING GRAVEL EDGING PER LANDSCAPE PER LANDSCAPE GRAVEL DRAIN 07 25 00 SAM -07 25 00 SAM -ASPHALTIC ADHERED MEMBRANE ASPHALTIC ADHERED MEMBRANE - 07 21 13 2" RIGID INSULATION MARK DATE **DESCRIPTION** - 07 21 13 2" RIGID INSULATION 09.26.2016 **ISSUE DATE:** DESIGN DEVELOPMENT - 07 25 00 DAMP PROOFING - 07 25 00 DAMP 2106913 PROJECT: PROOFING Author **DRAWN BY:** Checker **CHECKED BY:** COPYRIGHT MAHLUM ARCHITECTS, INC. 2011 ORIGINAL SHEET SIZE: 24"x36" - FOOTING DRAIN PER CIVIL **EXTERIOR DETAILS -FOUNDATION** PER CIVIL FOUNDATION AT CLT

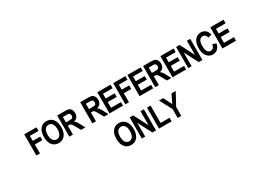
3" = 1'-0" FOUNDATION AT STUD WALL

3" = 1'-0"



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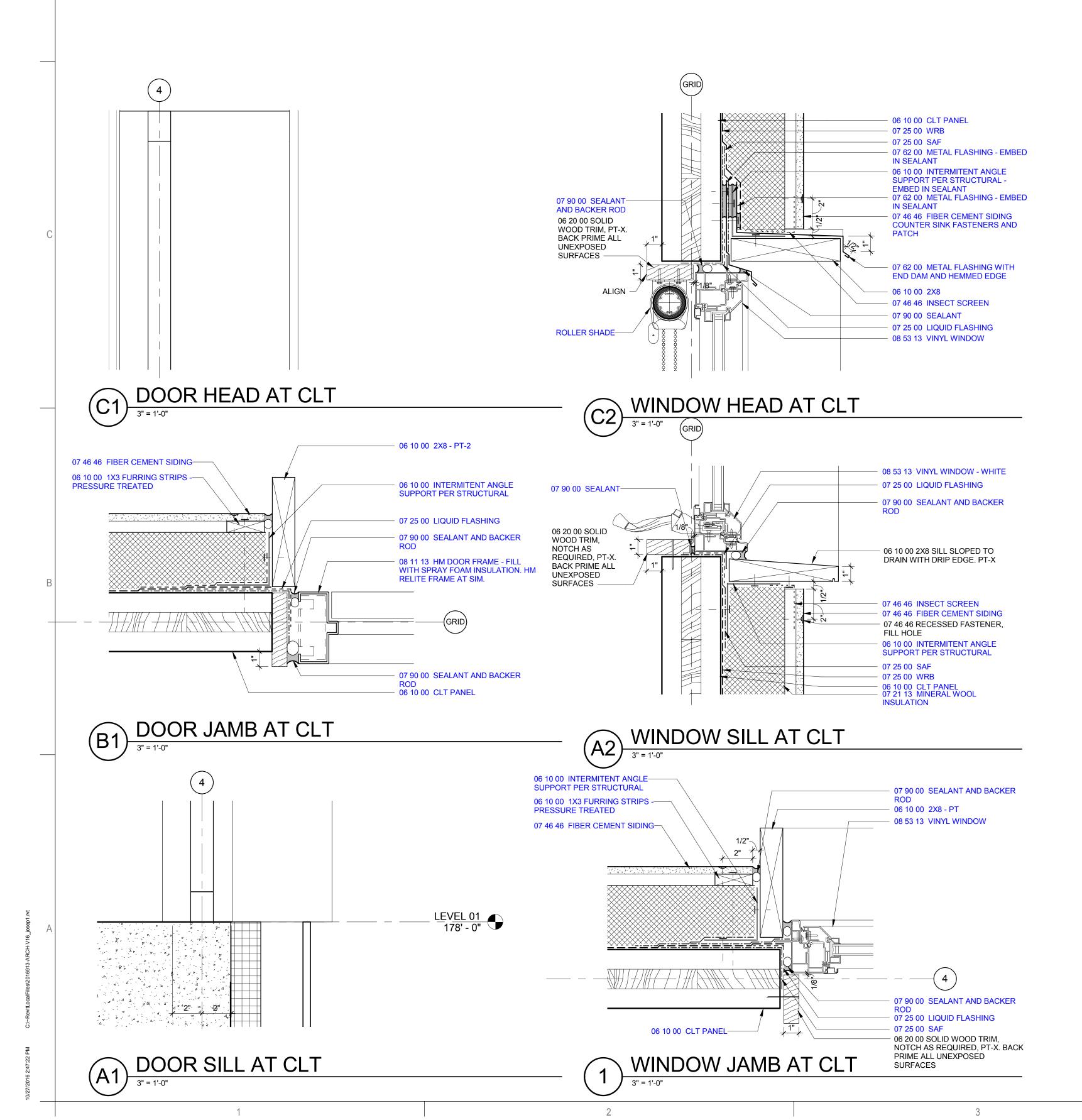
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EXTERIOR DETAILS - WALLS

A-521





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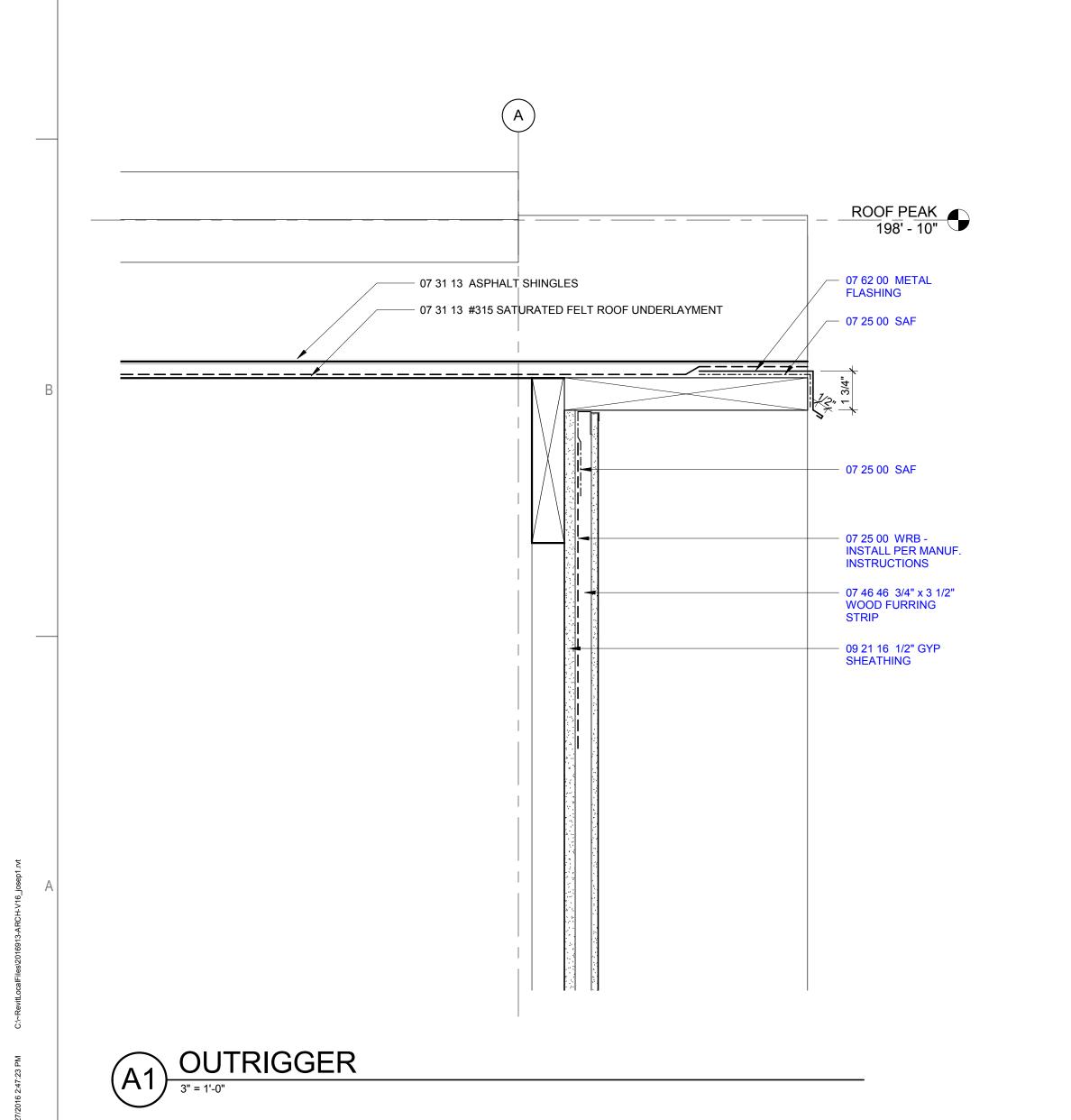
09.26.2016

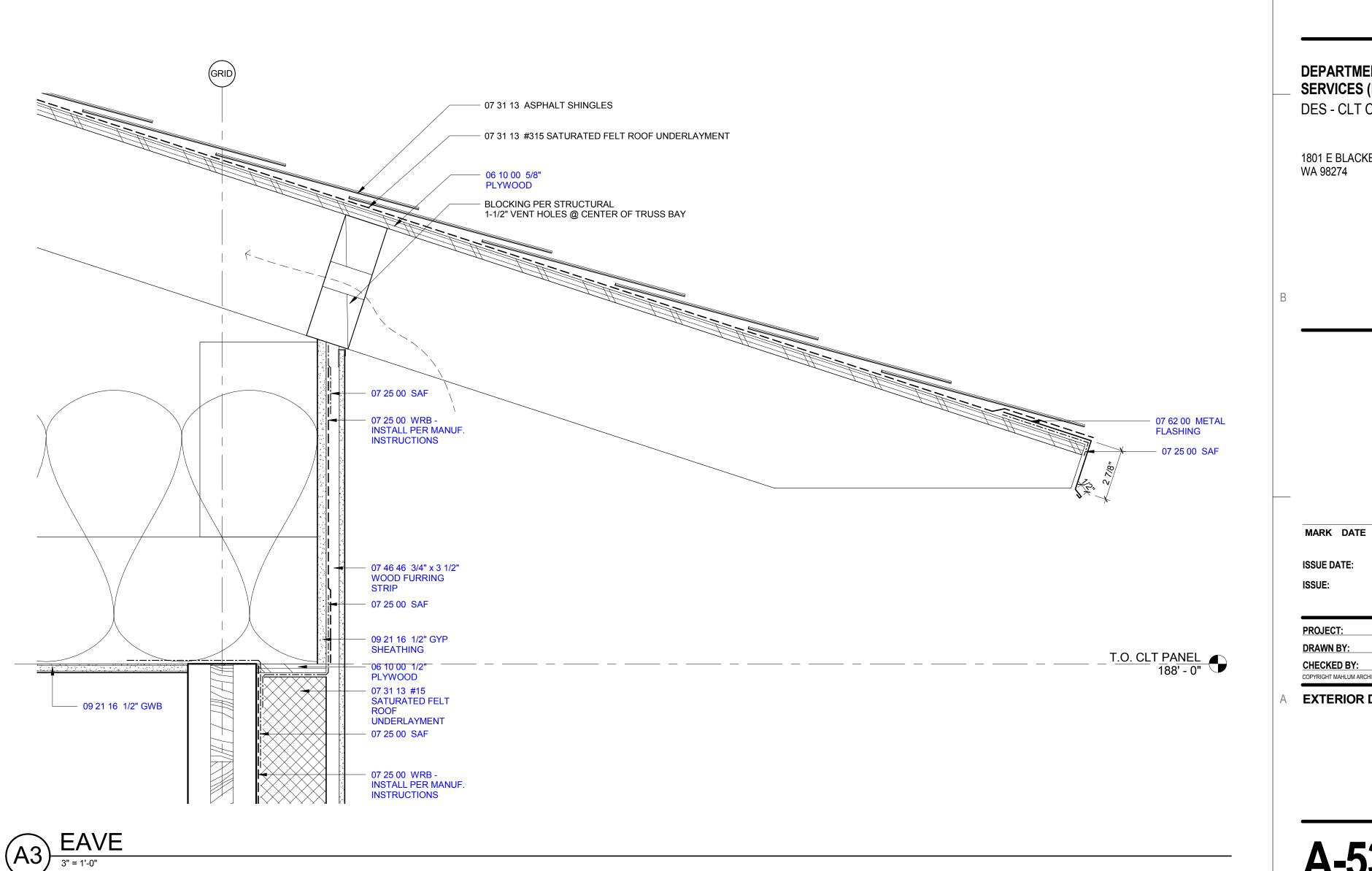
ISSUE DATE: ISSUE:

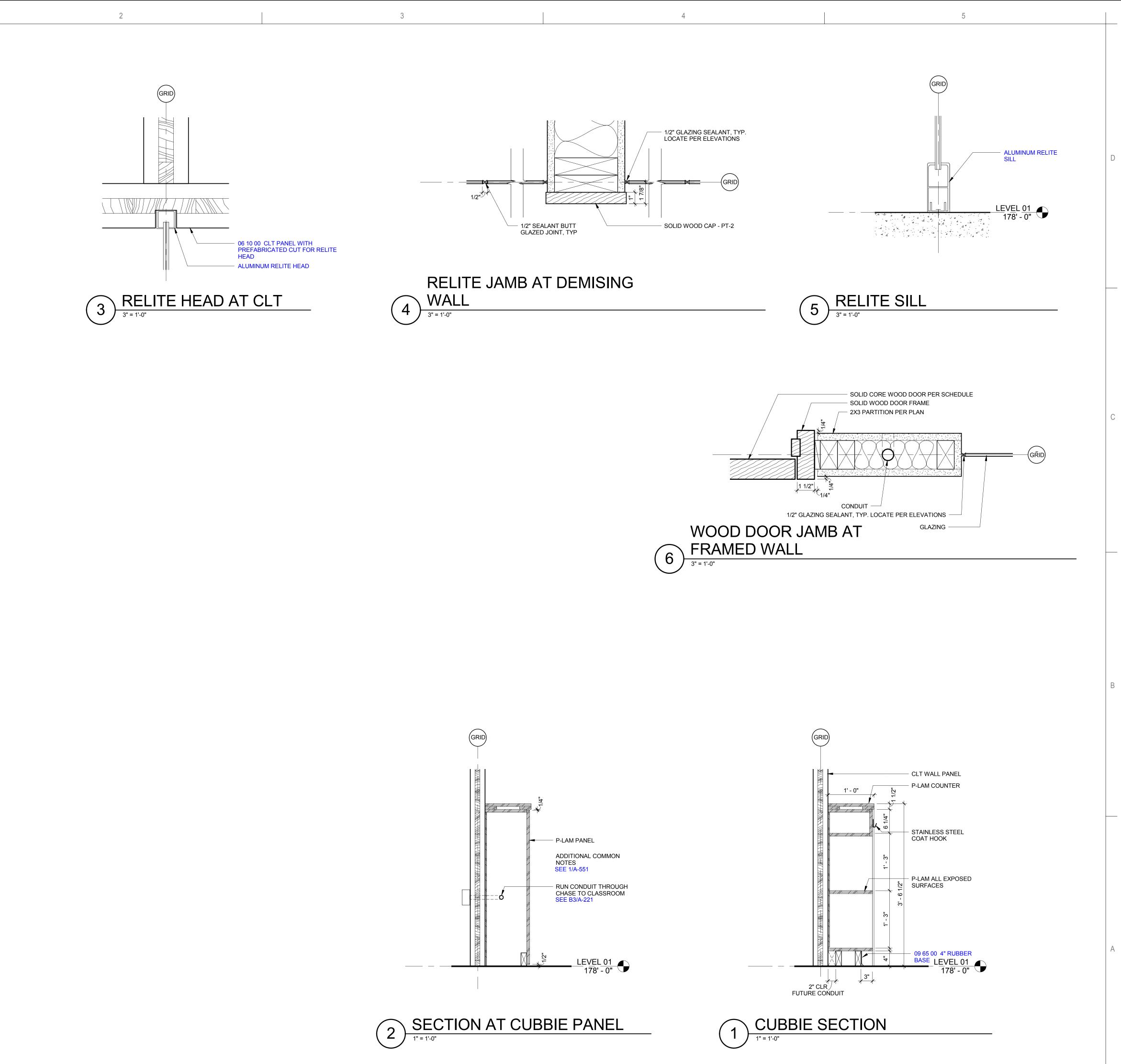
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EXTERIOR DETAILS - ROOF







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WA 98274

MARK DATE

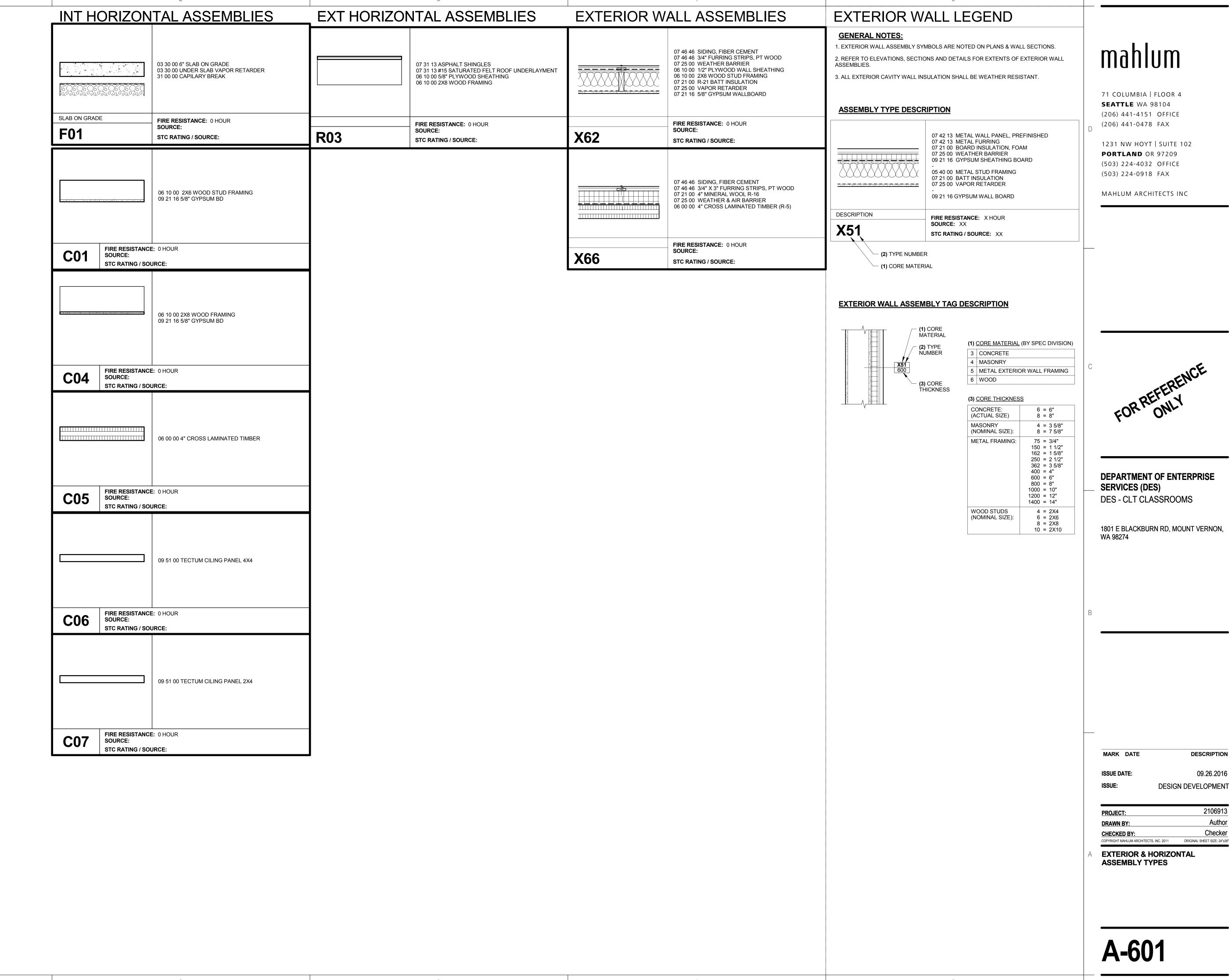
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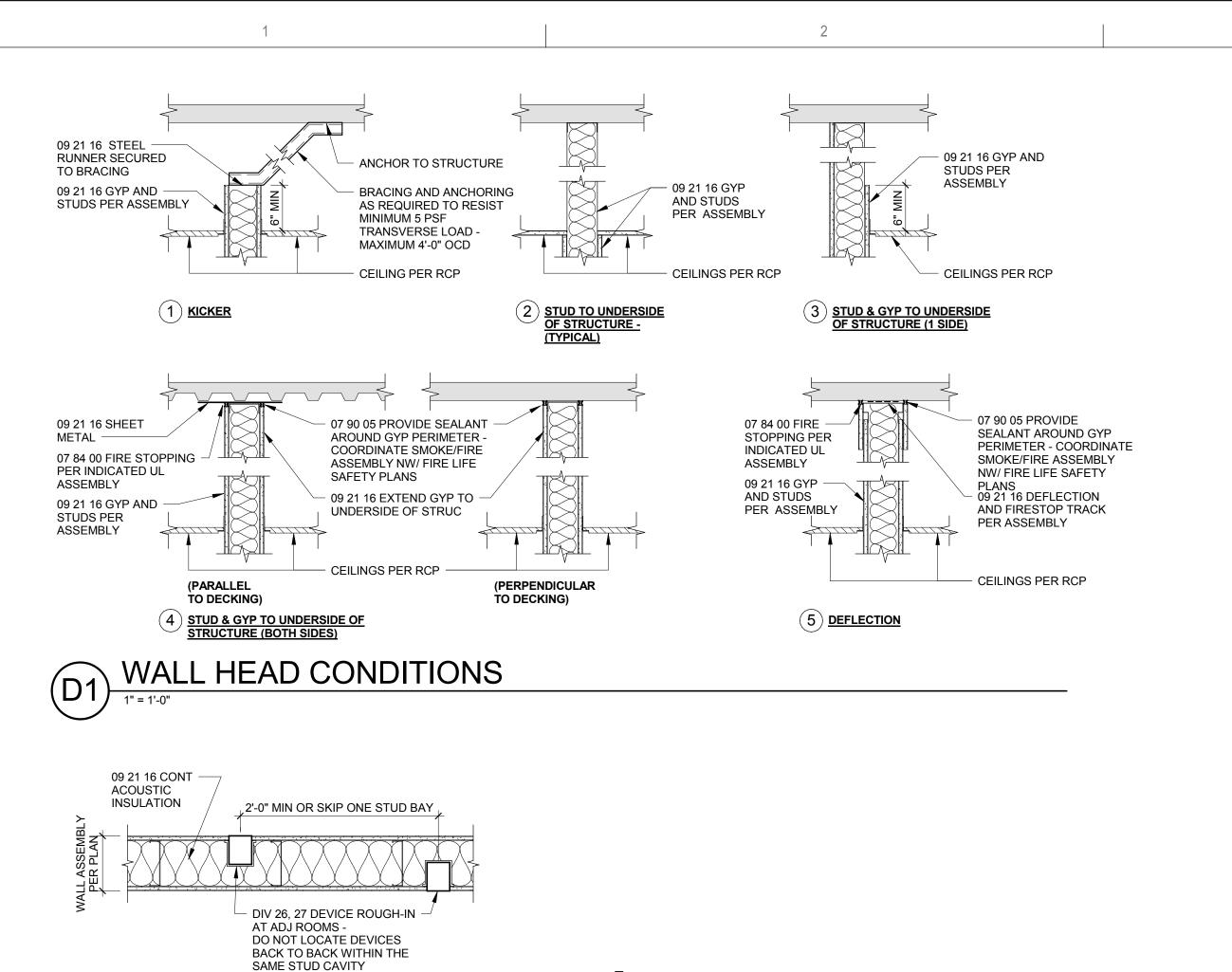
2106913 PROJECT: Author

DESCRIPTION

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ACOUSTIC

INSULATION

SKIP ONE STUD BAY

DIV 26, 27 DEVICE ROUGH-IN

DO NOT LOCATE DEVICES

BACK TO BACK WITHIN THE

AT ADJ ROOMS -

SAME STUD CAVITY

BACK TO BACK RECEPTACLES

09 21 16 CONT

ACOUSTIC

- 09 21 16 ACOUSTICAL PUTTY

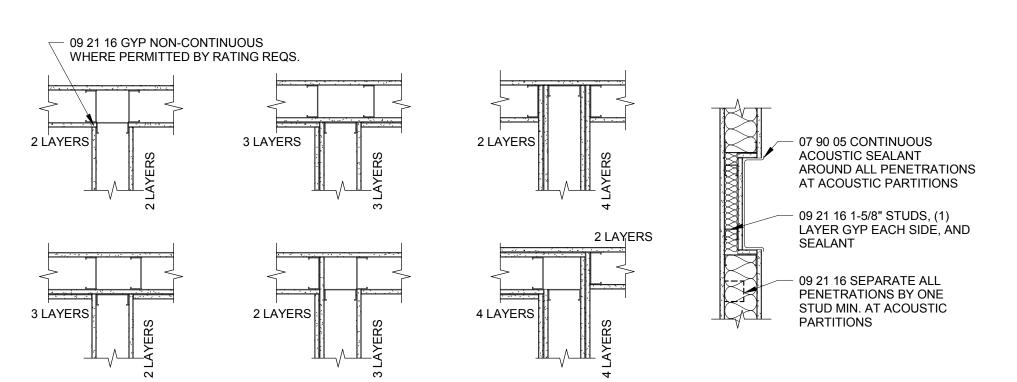
OPPOSITE SIDE OF THE

PARTITION WITHIN 2'-0"

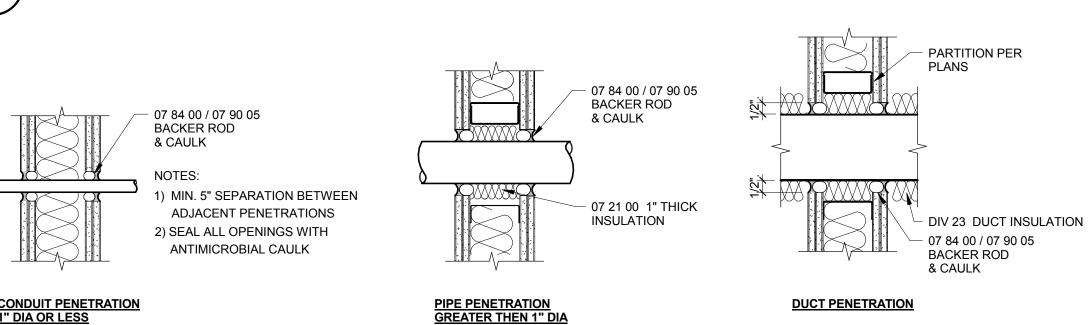
PAD ON JUNCTION BOXES ON

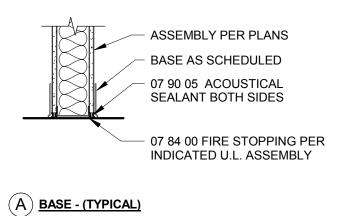
ONE SIDE OF PARTITION WITH

ANY JUNCTION BOXES ON THE



TYPICAL PARTITION INTERSECTIONS





PARTITION PENETRATIONS



INTERIOR WALL LEGEND

GENERAL NOTES:

1. TYPICAL INTERIOR WALLS SHALL BE WALL TYPE XXXX, UNLESS NOTED OTHERWISE ON

2. PARTITION TYPE SYMBOLS ARE NOTED ON THE FLOOR PLANS.

3. STUDS ARE 16" ON CENTER, UNLESS NOTED OTHERWISE

4. PROVIDE ALL NECESSARY ANCHORAGE BLOCKING, BACKING AND FRAMING FOR WALL MOUNTED CABINETS, SHELVING, MIRRORS, EQUIPMENT, DOORSTOPS, HOLD-OPENS, TOILET ROOM PARTITIONS & ACCESSORIES AND OTHER LOCATIONS AS REQUIRED BY MANUFACTURER SPECIFICATIONS OR INDUSTRY STANDARDS.

5. PROVIDE BRACING AT ALL LOCATIONS PER US GYPSUM GUIDELINES FOR PARTITION

6. PROVIDE WATER RESISTANT GYPSUM BOARD TYPICAL ON ALL WALLS BEHIND WATER SOURCES, TOILETS, SINKS, MOP SINKS, SHOWERS, ETC.

7. SUBSTITUTE THE OUTERMOST LAYER OF GYP WALL BD FOR CEMENTITIOUS BACKING BOARD AT TILE SHOWER AND WET LOCATIONS

8. SEAL COMPLETELY AROUND THROUGH WALL PENETRATIONS. FILL DEPTH OF GAPS AROUND CUT-OUTS FOR ELECTRICAL BOXES, PIPES AND PLUMBING, AND OTHER PENETRATIONS. PROVIDE INSULATION BETWEEN THE CONCEALED FACE OF FINISH MATERIALS (WITHIN THE STUD OR JOIST CAVITY) AND PIPES, PLUMBING, THE BACK OF BOXES, OR OTHER RECESSED FIXTURES. SEE A1/A-602. FOR BACK TO BACK RECEPTACLES SEE C1/A-602.

9. REFERENCE PROJECT SPECIFICATIONS:

- 01 60 11 BRACING AND ANCHORING 06 10 00 ROUGH CARPENTRY FOR BLOCKING REQUIREMENTS
- 07 21 00 BATT INSULATION
- 07 84 00 FIRE STOPPING
- 07 90 05 JOINT AND ACOUSTIC SEALANTS
- 09 21 16 GYPSUM BOARD ASSEMBLIES SEE NOTED ASSEMBLY DETAIL FOR ALL OTHER SECTIONS

10. WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER DUCTS, PIPING, CONDUIT, ETC. THE LARGER STUD SIZE OR FURRING SHALL BE PROVIDED AND SHALL EXTEND THE FULL SURFACE OF THE WALL LENGTH AND HEIGHT WHERE THE FURRING

11. FRAME AND FINISH OPENINGS FOR MECHANICAL AND ELECTRICAL SYSTEMS AS REQUIRED BY MECHANICAL/ELECTRICAL DOCUMENTS.

12. COORDINATE WITH STRUCTURAL DRAWINGS FOR REQUIRED SHEARWALL SHEATHING. PROVIDE IN ADDITION TO COMPONENTS INDICATED ON WALL TYPE DETAILS

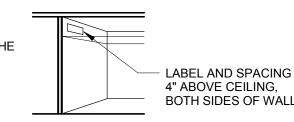
13. REFERENCE FIRE LIFE SAFETY PLANS FOR LOCATION AND EXTENTS OR LIMITS OF RATED PARTITIONS.

14. ALL FIRE-RATED ASSEMBLIES ARE BASED UPON IBC, U.L. AND U.S. GYPSUM ASSOCIATION (GA) TEST DATA. FIRE RATED PARTITIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TESTING AGENCIES. REFER TO SPECIFIC TEST REPORTS INDICATED FOR REQUIRED COMPONENTS AND ASSEMBLY

15. WALL RATING CONTINUES THROUGH INTERSECTIONS WITH NON-RATED WALLS,

16. MAINTAIN FIRE RESISTANCE RATING FOR ALL CONSTRUCTION INDICATED AT THROUGH-WALL PENETRATIONS, BUILT-IN WALL FIXTURES, ACCESSORIES, AND BEHIND MAILBOXES, FIRE EXTINGUISHER CABINETS, PLUMBING FIXTURES, ELECTRIC PANELS AND SIMILAR ITEMS, IN COMPLIANCE WITH REQUIREMENTS OF APPLICABLE CODES. COORDINATE CONSTRUCTION OF FIRE-RATED ASSEMBLIES WITH DESIGNATED DESIGN

17. PROVIDE LABELS AT RATED WALLS PER SPEC SECTION 07 84 00 AND TO THE DIAGRAM AT THE RIGHT.



SAFETY PLANS) (FW)

WALL RATING PLAN SYMBOL

(SEE FIRE LIFE S.	AFETY PLANS FOR MORE INFO	ORMATION)	
	NON RATED WALL		1-HOUR FIRE BARRIER
	SMOKE PARTITION (SP)		2-HOUR FIRE BARRIER
	SMOKE BARRIER (SB)		3-HOUR FIRE BARRIER

1/2-HOUR FIRE PARTITION RATING VARIES (SEE FIRE LIFE 1-HOUR FIRE PARTITION (FP)

D6 DOUBLE WOOD INT WALL FRAMING E STUDS @ 24" OC F USER DEFINED D9 DOUBLE METAL INT WALL FRAMING G USER DEFINED S | STAGGERED STUDS (FOS TO FOS) H USER DEFINED (6) CORE THICKNESS

CONCRETE: (ACTUAL SIZE)

MASONRY

(NOMINAL SIZE):

STAGGERED

WOOD STUDS:

09 21 16 GYPSUM WALLBOARD

09 21 16 GYPSUM WALLBOARD

09 21 16 METAL STUD FRAMING

09 21 16 GYPSUM WALLBOARD

09 21 16 ACOUSTICAL BATT INSULATION

(1) CORE MATERIAL

(3) TAG SIDE MATERIAL

(5) MODIFIER (IF USED)

(IF BLANK SEE TYPICAL)

(IF BLANK SEE TYPICAL)

(5) MODIFIERS (IF NEEDED)

C | HIGH IMPACT GYP BD

D STUDS @ 12" OC

A | CEMENTITIOUS BACKER BD

B WATER RESISTANT GYP BD

4 = 35/8"

75 = 3/4"

 $150 = 1 \frac{1}{2}$ "

162 = 15/8"

250 = 2 1/2" 362 = 3.5/8"

400 = 4"

600 = 6"

800 = 8"

1000 = 10"

1200 = 12"

1400 = 14"

6 = 2X6

8 = 2X8

10 = 2X10

6/4 = 6" NOM SILL

PLATE W/ 4"

STAGGERED STUDS

(6) CORE THICKNESS

(4) OPPOSITE SIDE MATERIAL

(8) HEAD CONDITION - SEE D1/A-602

(7) BASE CONDITION - SEE A2/A-602

(2) FIRE RATING

(2) FIRE RATING 0 NON-RATED 1 1 HOUR 2 2 HOUR 3 HOUR 4 4 HOUR 5 30 MINUTE

GWB GWB PLY

8 USER USER USER

9 USER USER USER

ASSEMBLY TYPE DESCRIPTION

FIRE RESISTANCE: 1 HOUR

(4) OPPOSITE SIDE MATERIAL

(3) TAG SIDE MATERIAL

(2) FIRE RATING

ASSEMBLY TAG DESCRIPTION

- (1) CORE MATERIAL

(4) OPP SIDE (1) (3) TAG SIDE

MATERIALS CORE MATERIALS

INTERIOR WALL ASSEMBLY LEGEND

(1) CORE MATERIAL (BY SPEC DIVISION)

9 METAL INTERIOR WALL FRAMING

3 CONCRETE

4 MASONRY

C CH STUD

6 WOOD

SOURCE: GA-WP-1072-(NLB) / GA-WP-1206-(LB)

STC RATING / SOURCE: 40-49, NRCC-816-NV / NGC-2385

3	3 HOUR				, ,
_	0110011				METAL FRAMING:
4	4 HOUR				WETALTRAWING.
5	30 MINUTE	=			
(3)	& (4) <u>INTER</u>	IOR WALL	LAYERS		
0	-	-	-		
1	-	-	GWB		
2	-	GWB	GWB	Æ	
3	-	GWB	RC/FURR	CORE	WOOD STUDS
4	GWB	GWB	RC/FURR		(NOMINAL SIZE):
5	-	-	PLY	SSEMBLY	,
6	-	GWB	PLY	SSE	



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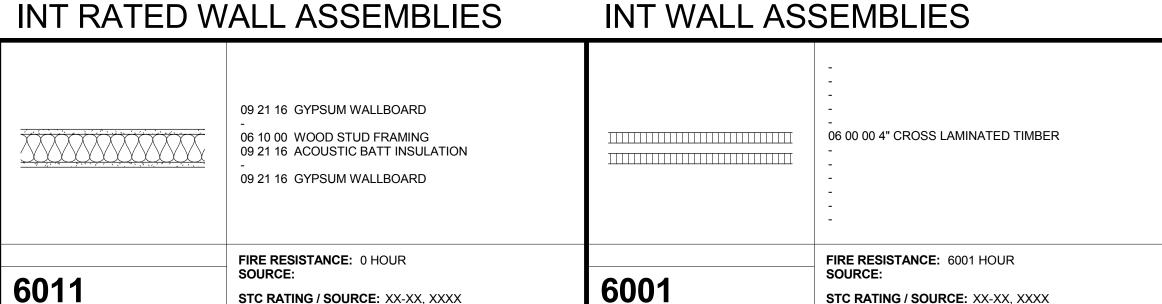
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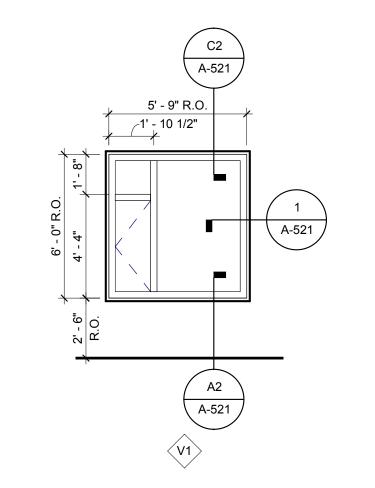
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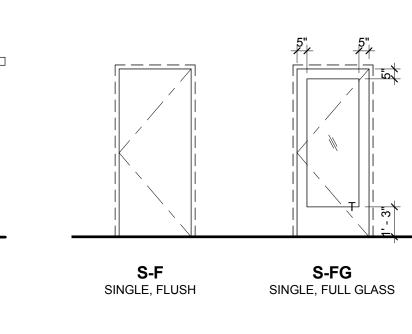
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DESIGN DEVELOPMENT

INTERIOR ASSEMBLY TYPES



VINYL WINDOW TYPE 1/4" = 1'-0"



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

BARN DOOR SLIDING TRACK

2"AS SCHED2"

WD-1

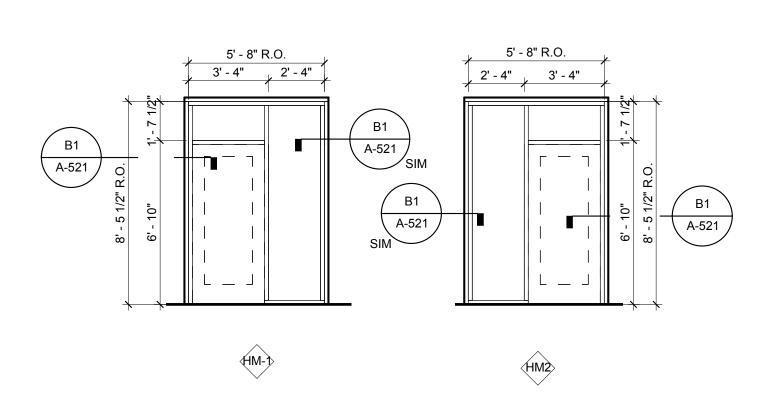
SOLID CORE WOOD

2"AS SCHED2"

HM-1

HOLLOW METAL



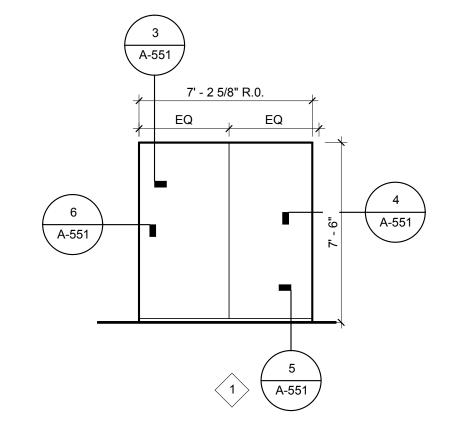


EXTERIOR FRAME TYPE



	LOUVER SCHEDULE													
	TYPE MARK	ROUGH OPENING			GLAZING		DETAILS							
Mark		WIDTH	HEIGHT	HEAD HEIGHT	TYPE	FINISH	SILL	COMMENTS						
	L1	2' - 8"	1' - 6"	9' - 10 1/8"										
	L1	2' - 8"	1' - 6"	9' - 10 1/8"										
	L1	2' - 8"	1' - 6"	9' - 10 1/8"										
	I 1	2' - 8"	1' - 6"	9' - 10 1/8"										

	DOOR & FRAME SCHEDULE															
DOOR	DOOR PANEL						DOOR	DOOR FRAME					III I ADEI	070	LIDVA	00141451170
		1	THICKNESS	TYPE	MATL	FINISH	TYPE	FINISH	MATL	HEAD	JAMB	SILL	UL LABEL	STC	HDW	COMMENTS
100A	3' - 0"	6' - 8"	0' - 1 3/4"	S-FG	HM	PT	HM-1	PT	HM							
100B	3' - 0"	6' - 8"	0' - 1 3/4"	S-FG	HM	PT	HM-1	PT	НМ							
200A	3' - 0"	7' - 6"	0' - 1 3/4"	S-FG	WD		WD-1		WD							
200B	3' - 0"	7' - 6"	0' - 1 3/4"	S-FG	WD		WD-1		WD							
200C	3' - 0"	7' - 6"	0' - 1 3/4"	S-FG	WD		WD-1		WD							
200D	3' - 0"	7' - 6"	0' - 1 3/4"	S-FG	WD		WD-1		WD							
300A	5' - 0"	7' - 6"	0' - 2"	S-S	WD	PLAM	BD-1	PLAM	WD							
300B	5' - 0"	7' - 6"	0' - 2"	S-S	WD	PLAM	BD-1	PLAM	WD							
300C	5' - 0"	7' - 6"	0' - 2"	S-S	WD	PLAM	BD-1	PLAM	WD							
300D	5' - 0"	7' - 6"	0' - 2"	S-S	WD	PLAM	BD-1	PLAM	WD							
400A	3' - 0"	7' - 6"	0' - 1 3/4"	S-F	WD	PT	WD-1	PT	WD							
400B	3' - 0"	7' - 6"	0' - 1 3/4"	S-F	WD	PT	WD-1	PT	WD							



Relite Schedule

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WINDOW & DOOR SCHEDULES & TYPES

A-611

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ROOM FINISH SCHEDULE							
ROOM NO.	ROOM NAME	FLOOR FINISH BASE FINISH	WALL FINISH				COMMENTS
			NORTH	EAST	SOUTH	WEST	COMMENTS
Not Placed							
131	ACTIVITY AREA						
LEVEL 01							
001	CORRIDOR						
002	CUBBIES						
003	CUBBIES						
004	SHARED STORAGE						
005	TOILET						
006	MECH						
007	SHARED STORAGE						
800	TOILET						
009	ELEC						
100	CLASSROOM						
101	ACTIVITY AREA						
110	CLASSROOM						
111	ACTIVITY AREA						
120	CLASSROOM						
121	ACTIVITY AREA						
130	CLASSROOM						
131	ACTIVITY AREA						

ROOM FINISH SCHEDULE LEGEND

PLACE KEY TO NUMBERED ROOM FINISH SCHEDULE COMMENTS COLUMN AND A ROOM FINISH SCHEDULE SPECIFIC ABREVIATION LIST HERE. MODIFY AND/OR DUPLICATE THIS LEGEND VIEW TO FIT PROJECT REQUIREMENTS

COMMENT 1. COMMENT 2. COMMENT 3.

ACOUSTICAL CEILING PANEL
ACOUSTICAL WALL PANEL
CARPET TILE
CERAMIC TILE
FIBERGLASS REINFORCED PANEL
GYPSUM BOARD
PAINT
QUARRY TILE
RUBBER BASE
POLISHED CONCRETE
RESILIENT FLOOR
CONCRETE 095100 AP 098400 AWP 096813 CPT 093000 CT 066400 FRP 092116 GB 099000 PT 093000 QT 096500 RB 033513 R-CONC 096500 RF CONCRETE WALK OFF MAT 033000 CONC 124813 WOM

71 COLUMBIA | FLOOR 4 SEATTLE WA 98104 (206) 441-4151 OFFICE (206) 441-0478 FAX

1231 NW HOYT | SUITE 102 PORTLAND OR 97209 (503) 224-4032 OFFICE (503) 224-0918 FAX

MAHLUM ARCHITECTS INC

DEPARTMENT OF ENTERPRISE SERVICES (DES) DES - CLT CLASSROOMS

1801 E BLACKBURN RD, MOUNT VERNON, WA 98274

MARK DATE

ISSUE DATE:

DESIGN DEVELOPMENT 2106913

DESCRIPTION

CHECKED BY: Checker

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FINISH SCHEDULE