CIHA: SPENARD EAST  
VOLUME 3: MULTI-FAMILY HOUSING  
ANCHORAGE, ALASKA

BID DOCUMENTS  
SEPTEMBER 4, 2020

CONTACT INFORMATION

OWNER
COOK INLET HOUSING AUTHORITY  
3510 SPENARD ROAD, SUITE 100  
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EBSC ENGINEERING, LLC  
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LANDSCAPE DESIGN
HUDDLE AK  
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STRUCTURAL ENGINEERING
PND ENGINEERS, INC  
1506 W 36TH AVE.  
ANCHORAGE, ALASKA 99503
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MECHANICAL ENGINEERING
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ELECTRICAL ENGINEERING
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ENERGY CONSULTANT
HORIZONS, LLC  
10900 CORRIE WAY  
EAGLE RIVER, ALASKA 99577
p. (907) 250-9729
DRAWING SYMBOLS

ROOM NAME AND NUMBER

ALL STORAGETYPES

DOOR NUMBER

ROOM NUMBER

NORTH ARROW

ROOM REFERENCE LINES

DRAWING SYMBOLS

ROOM NAME AND NUMBER

ALL STORAGETYPES

DOOR NUMBER

ROOM NUMBER

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DRAWING SYMBOLS

ROOM NAME AND NUMBER

ALL STORAGETYPES

DOOR NUMBER

ROOM NUMBER

NORTH ARROW

ROOM REFERENCE LINES
CODE ANALYSIS - IBC 2018

CHAPTER 704 EXTERIOR STAIRWAYS AND RAMPS

704.1 General. Exterior exit stairways and ramps shall comply with Sections 1021 and 1027, respectively. Projections shall not be permitted between the stairway or ramp and the building. Exception: Where the exit stairway is protected by a fire buffer wall, the stairway shall be constructed in fire partitions in accordance with Section 704.2.

704.2 Separation. Exterior exit stairways shall be separated from other stories by fire barriers. Fire barriers shall extend to the full height of the building and shall be constructed in fire partitions in accordance with Section 704.3.

704.3 Minimumרפף ד"ש

CHAPTER 707 SEPARATION OF OCCUPANCIES

707.4.1 Support. A fire barrier separating incidental uses from other spaces in the building shall have a fire-resistance rating of not less than 1/2-hour. A fire barrier separating incidental uses from other spaces in the building shall have a fire-resistance rating of not less than 1-hour. Support for a fire barrier separating incidental uses from other spaces in the building shall be provided in accordance with Section 707.4.2. Support for a fire barrier separating incidental uses from other spaces in the building shall be provided in accordance with Section 707.4.3. Support for a fire barrier separating incidental uses from other spaces in the building shall be provided in accordance with Section 707.4.4.

SECTION 707.5 SEPARATING MIXED OCCUPANCIES

707.5.1 General. The building shall be separated into occupied areas by fire barriers. Each occupied area shall be separated from other occupied areas by fire barriers. The fire barriers shall be in accordance with Table 707.5.1. The fire barriers shall be in accordance with Table 707.5.1. The fire barriers shall be in accordance with Table 707.5.1.

SECTION 707.6 CONSTRUCTION

707.6.1 General. The fire barriers separating incidental uses from other spaces in the building shall be constructed in accordance with Section 707.6.1.1. The fire barriers separating incidental uses from other spaces in the building shall be constructed in accordance with Section 707.6.1.1. The fire barriers separating incidental uses from other spaces in the building shall be constructed in accordance with Section 707.6.1.1.

SECTION 707.7 FIRE RESISTANCE RATINGS

707.7.1 Horizontal Assemblies. Horizontal assemblies shall comply with Table 707.7.1. Horizontal assemblies shall comply with Table 707.7.1. Horizontal assemblies shall comply with Table 707.7.1.

SECTION 707.8 FIRE PARTITIONS

707.8.1 General. A fire partition shall have a fire-resistance rating of not less than 1-hour. A fire partition shall have a fire-resistance rating of not less than 1-hour. A fire partition shall have a fire-resistance rating of not less than 1-hour.

FIELD INSTALLATION

712.1.12 Exit Access Stairways and Ramps. Stairways and ramps shall be installed in accordance with Section 712.1.12. Stairways and ramps shall be installed in accordance with Section 712.1.12. Stairways and ramps shall be installed in accordance with Section 712.1.12.

SECTION 714 GAS APPLIANCES IN ACCORDANCE WITH CHAPTER 10 OF IIC A117.1. SUCH CAPABILITY SHALL ACCOMMODATE WIRED OR WIRELESS ALARMS IN ACCORDANCE WITH NFPA 72.

SECTION 716 CONSTRUCTION

716.1 General. The fire alarm system shall be installed in accordance with Section 716.1. The fire alarm system shall be installed in accordance with Section 716.1. The fire alarm system shall be installed in accordance with Section 716.1.

SECTION 717 STAINLESS STEEL UNITS

717.1.2.4 Fire-Resistace Rating. Fire partitions shall have a fire-resistance rating of 1-hour. Fire partitions shall have a fire-resistance rating of 1-hour. Fire partitions shall have a fire-resistance rating of 1-hour.

SECTION 718 VERTICAL ASSEMBLIES

718.1 Vertical Assemblies. Vertical assemblies shall comply with Table 718.1. Vertical assemblies shall comply with Table 718.1. Vertical assemblies shall comply with Table 718.1.

SECTION 719 WALL ASSEMBLIES

719.1.4 Wall Assemblies. Wall assemblies shall comply with Table 719.1.4. Wall assemblies shall comply with Table 719.1.4. Wall assemblies shall comply with Table 719.1.4.

SECTION 720 WALL OPENINGS

720.1.3.1 Wall Openings. Wall openings shall be in accordance with Table 720.1.3.1. Wall openings shall be in accordance with Table 720.1.3.1. Wall openings shall be in accordance with Table 720.1.3.1.

SECTION 721 STAIRWELL ENCLOSURES

721.1.2 Stairwell Enclosures. Stairwell enclosures shall comply with Table 721.1.2. Stairwell enclosures shall comply with Table 721.1.2. Stairwell enclosures shall comply with Table 721.1.2.

SECTION 722 WALLS AND PARTITIONS

722.1.4 Structural Integrity. Walls and partitions shall be in accordance with Table 722.1.4. Walls and partitions shall be in accordance with Table 722.1.4. Walls and partitions shall be in accordance with Table 722.1.4.

SECTION 723 FIREPROOFING AND FIRE PROTECTION

723.1.2 Fireproofing. Fireproofing shall be in accordance with Table 723.1.2. Fireproofing shall be in accordance with Table 723.1.2. Fireproofing shall be in accordance with Table 723.1.2.

SECTION 724 WALL ASSEMBLIES

724.1.2 Fire-Resistace Rating. Fire partitions shall have a fire-resistance rating of not less than 1-hour. Fire partitions shall have a fire-resistance rating of not less than 1-hour. Fire partitions shall have a fire-resistance rating of not less than 1-hour.

SECTION 725 CEMENT BOARD

725.1.1 General. Cements shall be in accordance with Table 725.1.1. Cements shall be in accordance with Table 725.1.1. Cements shall be in accordance with Table 725.1.1.

SECTION 726 VERTICAL PORCHES

726.1 Vertical Porches. Vertical porches shall be in accordance with Table 726.1. Vertical porches shall be in accordance with Table 726.1. Vertical porches shall be in accordance with Table 726.1.

SECTION 727 WINDOW SASH AND FRAME

727.1.2 Window Sash and Frames. Window sash and frames shall be in accordance with Table 727.1.2. Window sash and frames shall be in accordance with Table 727.1.2. Window sash and frames shall be in accordance with Table 727.1.2.

SECTION 728 DOORS

728.1.3 Door Assemblies. Door assemblies shall be in accordance with Table 728.1.3. Door assemblies shall be in accordance with Table 728.1.3. Door assemblies shall be in accordance with Table 728.1.3.

SECTION 729 ENTRANCE ARCHES

729.1.4 Entrance Arches. Entrance arches shall be in accordance with Table 729.1.4. Entrance arches shall be in accordance with Table 729.1.4. Entrance arches shall be in accordance with Table 729.1.4.

SECTION 730 FIRE STAIRWAYS AND RAMPS

730.1 General. The fire stairways and ramps shall be in accordance with Section 730.1. The fire stairways and ramps shall be in accordance with Section 730.1. The fire stairways and ramps shall be in accordance with Section 730.1.

SECTION 731 EXISTING STRUCTURES

731.1.3 Existing Wall Openings. Existing wall openings shall be in accordance with Table 731.1.3. Existing wall openings shall be in accordance with Table 731.1.3. Existing wall openings shall be in accordance with Table 731.1.3.
**OCCUPANCY LOAD SCHEDULE - LEVEL 1**

**OCCUPANCY LOAD SCHEDULE - LEVEL 2**

**OCCUPANCY LOAD SCHEDULE - LEVEL 3**

### Vertical Assemblies and Egress Components
- 1/2-Hour Fire Partition
- 1-Hour Fire Partition
- Knox Box; Verify Location with Local AHJ
- FACP
- Fire Alarm Control Panel; Verify Location with Local AHJ
- FDC (Fire Department Connection); Verify Location with Local AHJ
- Wall Mounted Fire Extinguisher
- Fire Extinguishers and Fire Extinguisher Cabinets (FEC)
- Building Exit

### Use and Occupancies
- Group R-2 Use: Storage
- Group R-2 Use: Residential
- Group R-2 Use: Accessory Occupancy
- Group S-1 Use: Storage
- Group S-1 Use: Mechanical

### Life Safety Plan Notes
1. Refer to Code Analyzer for Fire-Rated Assembly Construction Requirements.
2. Fire Stopping through Rated Assemblies.
3. General Contractor shall provide and install fire extinguishers and cabinets in accordance with applicable codes and regulations. Fire extinguishers shall meet NFPA 10 and shall be of the appropriate size and type for the occupancy.
4. Fire extinguishers shall be accessible.
5. All signs shall be constructed to dimension shown and to not less than 1/2" clear vision from inside of openings.
HORIZONTAL ASSEMBLIES - LEVEL 3

HORIZONTAL ASSEMBLY LEGEND

- 1-HOUR FIRE/FLOOR ASSEMBLY AT LEVEL 1 AND LEVEL 2.
- FLOOR ASSEMBLY F3, REFER TO G3.00 FOR ASSEMBLY.
- 1-HOUR FLOOR ASSEMBLY AT LEVEL 2, REFER TO G3.00 FOR ASSEMBLY.
- ROOF ASSEMBLY AT LEVEL 3, REFER TO G3.00 FOR ASSEMBLY.
- CANOPY ASSEMBLY AT LEVEL 2, REFER TO G3.00 FOR ASSEMBLY.
- 1-HOUR FIRE/CeILING ASSEMBLY, REFER TO A7.00 SERIES FOR DETAILS.
- 1-HOUR COLUMN RATING PER 12/A6.50.

HORIZONTAL ASSEMBLIES - LEVEL 2

HORIZONTAL ASSEMBLIES - LEVEL 1
AFFORDABLE HOUSING UNITS ARE ELIGIBLE FOR A REDUCTION OF UP TO 30%.

AFFORDABLE HOUSING

30% AFFORDABLE HOUSING = -6.237

\( \text{OFFICE X .05} + (21 \times 100) = 0 + 2,100.00 \text{ SF} \)

MULTIFAMILY AND MIXED-USE DWELLINGS (50 - 149 DU) = (1) TYPE B UNIT

TABLE 21.07-06: OFF-STREET LOADING BERTHS

OFF-STREET LOADING REQUIREMENTS

THE SITE IS ELIGIBLE FOR A REDUCTION OF UP TO 10% OF THE MINIMUM REQUIRED PARKING STALLS

RESIDENCES IN CITY CENTER NEIGHBORHOODS

50% ASSIGNED PARKING WITH REDUCTIONS

10% CITY CENTER 21.07.090.F.7 = -2.31 = 20.79

STALLS

GUEST: 0.10 STALLS X 21 UNITS = 2.1 STALLS

QUALIFYING SITE DEVELOPMENT

PARKING REDUCTIONS AND ALTERNATIVES

1-BED: 1.00 STALLS X 13 UNITS = 13 STALLS

STUDIO: 1.00 STALLS X 8 UNITS = 8.0 STALLS

TOTAL = 23.1 STALLS

OFF-STREET PARKING REQUIREMENTS

OFF-STREET PARKING AND LOADING

d MECHANICAL AND ELECTRICAL EQUIPMENT - OTHER

c ROOFTOP MECHANICAL AND ELECTRICAL EQUIPMENT

LANDSCAPING, SCREENING, AND FENCES

PRIVATE OPEN SPACE IN THE B-3 RESIDENTIAL DISTRICTS:

- MINIMUM FRONT YARD: 10 FT
- MINIMUM WIDTH: 50 FT
- MINIMUM AREA: 6,000 SF
- MAXIMUM HEIGHT: 45 FT

WALKWAY CONNECTING TO 100V AND 101V ARE BOTH CONNECTED VIA WALKWAYS TO CHUGACH WAY

PARKING FACILITIES COMPRISE 46% OF THE AREA BETWEEN THE PROPERTY LINE AND STREET FACING ELEVATION

PARKING FACILITIES COMPRISE 0% OF THE AREA BETWEEN THE PROPERTY LINE AND STREET FACING ELEVATION

AREAS OF THE BUILDING FACADE.

- NORTH ELEVATION = 261 / 1385 SF | 25.4%
- SOUTH ELEVATION = 827 / 4049 SF | 20.4%
- EAST ELEVATION = 31.5', 26.25', 44.5', 13.5' = 28.94' AVERAGE
- WEST ELEVATION

-NORTH ELEVATION = 978 / 4049 SF | 24.1%
-SOUTH ELEVATION = 827 / 4049 SF | 20.4%
-EAST ELEVATION = 31.5', 26.25', 44.5', 13.5' = 28.94' AVERAGE
-WEST ELEVATION

THREE (3) PRIMARY SIDING MATERIALS ARE USED

NORTH ENTRY DEPTH = 8.00'

PARAPET DIMENSIONS = 2' AND 4' ABOVE T.O. ROOF JOIST RESPECTIVELY.

ENTRYWAY TREATMENT: PRIMARY FRONT ENTRANCES SHALL BE GIVEN EMPHASIS AND PHYSICAL ACCESS.

h DAYLIGHTING: PROVIDE A 60 DEGREE UNOBSTRUCTED DAYLIGHT PLANE FOR AT LEAST 1 WINDOW / DWELLING UNIT.

i SEPARATED WALKWAY TO THE STREET

g PEDESTRIAN ACCESS

k VARIATION OF EXTERIOR FINISHES: 2 OR MORE PRIMARY WALL SIDING MATERIALS

j SEPARATED WALKWAY TO 100V AND 101V

f VARIATION OF MATERIALS (HARDSCAPE, PLANTING, FURNITURE, ETC.)

e ORIENTATION FOR SUNLIGHT ACCESS: PROVIDE WINDOWS / ENTRANCES FOR AT LEAST 20% OF THE WALL AREA WITH A UNIBUS WINDOW - 35% MINIMUM

d ORIENTATION TO THE STREET

c ORIENTATION THROUGH WALL MODULATION AND FINISHES IS PROVIDED TO EMPHASIZE THE ENTRY.

b FACADE VARIATION THROUGH WALL MODULATION AND FINISHES IS PROVIDED TO EMPHASIZE THE ENTRY.

a OUTDOOR SHELTERING ROOF STRUCTURE SUCH AS AN OVERHANG IS PROVIDED.

SIGHT-OBSCURING LANDSCAPING CONSISTING OF SHRUBS, TREES, BERM, AND/OR HARDSCAPE MATERIALS.

SIGHT-OBSCURING FENCE, WALL, OR STRUCTURE

WALL ARTICULATION

SELECT FOUR OF THE FOLLOWING MENU CHOICES

BUILDING ARTICULATION MENU

SELECT THREE OF THE FOLLOWING MENU CHOICES

BUILDING AND SITE ORIENTATION MENU

SELECT FOUR OF THE FOLLOWING MENU CHOICES

VOLUME 3: MULTI-FAMILY BUILDING ANCHORAGE, ALASKA

DATE REVIEWED DRAWN

09.07.2020 19-059-M

ANCHORAGE, ALASKA

DIAGRAMS
FLOOR PLAN GENERAL NOTES:
1. Reference G1.00 for rated walls and/or ceilings.
2. Reference G2.00 for wall assemblies and notes.
3. Reference A5.00 for door schedule, window types and finishes.
4. All dimensions are to face of stud of new construction or to grid line.
5. All doors shall be installed 5" from adjacent face of stud, unless otherwise noted on floor plan or door schedule.
6. Provide blocking for all wall mounted casework, countertops and wall mounted accessories. General contractor shall coordinate locations with subcontractors.
7. General contractor shall coordinate requirements with mechanical, electrical, and plumbing drawings.
8. All closets to receive closet rod and shelf. Reference elevations for closet layouts.
9. Furniture, fixtures and equipment not in contract, unless otherwise noted.

ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1 HOUR RATING.

SHEET NOTES:

FLOOR PLAN LEVEL 1

LEVEL 2

LEVEL 3

LEVEL 4

LEVEL 5

LEVEL 6

LEVEL 7

LEVEL 8

LEVEL 9

LEVEL 10

LEVEL 11

LEVEL 12

LEVEL 13

LEVEL 14

LEVEL 15

LEVEL 16

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LEVEL 214
FLOOR PLAN GENERAL NOTES
1. Refer to G1.00 for rated walls and/or ceilings.
2. Refer to G2.00 for wall assemblies and notes.
3. Refer to A5.00 for door schedule, window types and finishes.
4. All dimensions are to face of stud of new construction or to grid line.
5. All doors shall be installed 5" from adjacent face of stud, unless otherwise noted on floor plan or door schedule.
6. Provide blocking for all wall mounted casework, countertops and wall mounted accessories. General contractor shall coordinate locations with subcontractors.
7. General contractor shall coordinate requirements with mechanical, electrical and plumbing drawings.
8. All closets to receive closet rod and shelf. Refer to elevations for closet layouts.
9. Furniture, fixtures and equipment not in contract, unless otherwise noted.

ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1-HOUR RATING.

CHI: SPENARD EAST
VOLUME 3: MULTI-FAMILY BUILDING
ANCHORAGE, ALASKA

SHEET NOTES
ELEVATOR SCHEDULE OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1-HOUR RATING.

JOB NO.
DATE
DRAWN
REVIEWED
SHEET NO.
SHEET NAME
DTW
HALF SCALE WHEN PRINTED AT 11x17
CERTIFICATE OF AUTHORIZATION NO: SPARK DESIGN, LLC #AECL1394
2020.09.04

BID DOCUMENTS
3/16" = 1'-0"
FLOOR PLAN GENERAL NOTES
1. REFERENCE A2.00 FOR WALL, ASSEMBLIES AND NOTES.
2. REFERENCE A2.01 FOR DOOR SCHEDULE, WINDOW TYPES AND FINISHES.
3. REFERENCE A2.00 FOR DOOR SCHEDULE, WINDOW TYPES AND FINISHES.
4. REFERENCE A2.01 FOR DOOR SCHEDULE, WINDOW TYPES AND FINISHES.
5. ALL DOORS SHALL BE INSTALLED 5" FROM ADJACENT FACE OF STUD, UNLESS OTHERWISE NOTED ON FLOOR PLAN OR DOOR SCHEDULE.
6. PROVIDE BLOCKING FOR ALL WALL MOUNTED CASEWORK, COUNTERTOPS AND WALL MOUNTED ACCESSORIES. GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS WITH SUBCONTRACTORS.
7. GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
8. ALL CLOSETS TO RECEIVE CLOSET ROD AND SHELF. REFERENCE ELEVATIONS FOR CLOSET LAYOUTS.
9. FURNITURE, FIXTURES AND EQUIPMENT NOT IN CONTRACT, UNLESS OTHERWISE NOTED.

ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1 HOUR RATING.

GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

FLOOR PLAN LEVEL 3

SHEET NOTES
ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1 HOUR RATING.

GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

FLOOR PLAN LEVEL 3

SHEET NOTES
ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1 HOUR RATING.

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FLOOR PLAN LEVEL 3

SHEET NOTES
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FLOOR PLAN LEVEL 3

SHEET NOTES
ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1 HOUR RATING.

GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

FLOOR PLAN LEVEL 3

SHEET NOTES
ELEVATOR BASIS OF DESIGN: OTIS HYDROFIT 3510 PASSENGER ELEVATOR. ALL ELEVATOR DOORS PROVIDED BY ELEVATOR MANUFACTURER TO HAVE 1 HOUR RATING.

GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
ROOF PLAN GENERAL NOTES
1. ALL ROOFS SHALL SLOPE AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED.
2. PROVIDE CRICKETS AT ROOF MOUNTED MECHANICAL EQUIPMENT AND ROOF HATCH MOUNTED MECHANICAL SLOPE AT 1/4" PER FOOT MINIMUM TOWARDS ROOF DRAIN.
3. PARAPETS AND ROOF MOUNTED EQUIPMENT SHALL BE LOCATED A MINIMUM 10'-0" FROM ALL ROOF EDGES.
4. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF DRAINS AND DUMP CLOSURES.

ROOF PLAN LEGEND
- ROOF DRAIN
- OVERFLOW DRAIN
- HIGH PARAPET
- LOW PARAPET
- CANOPY AT LEVEL 2

1/4" - 1'-0"
1. DIMENSIONS ON REFLECTED CEILING PLANS ARE FROM FACE OF FINISH TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
2. ALL CEILING MOUNTED ITEMS LOCATED IN A GNB CEILING SHALL BE PAINTED TO MATCH CEILING PAINT COLOR.
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR CEILING DEVICES.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR CEILING DEVICES.
5. CENTER LIGHT FIXTURES IN ROOM, CEILING, OR SOFFIT, UNO.
6. CENTER VANTY LIGHT OVER MIRROR, UNO.
7. ALL GWB SOFFITS IN UNITS TO BE PAINTED TO MATCH GWB PAINT COLOR.
8. ALL GWB SOFFITS IN COMMON AREAS TO BE PAINTED TO MATCH GWB PAINT COLOR.
9. GWB CEILING/SOFFIT, REFER TO FINISH SCHEDULE FOR PAINT SELECTION.

NEW PARTITION, EXTEND ABOVE CEILING MINIMUM 6".
NEW PARTITION, EXTEND TO BOTTOM OF DECK; WHERE MULTIPLE LAYERS OF GWB OCCURS, ONLY INSIDE LAYERS OF GWB SHALL EXTEND TO DECK. SECOND LAYER SHALL EXTEND MINIMUM 6" ABOVE GWB CEILING.

CEILING HEIGHT

5/8" TYPE 'X' GWB AT UNDERSIDE OF STAIRS AND INTERMEDIATE LANDINGS.
UNDERSIDE OF RATED FLOOR-CEILING ASSEMBLY PLP2, REFER TO A2.00, A2.01 AND A5.10.
REFER TO ENLARGED REFLECTED CEILING PLANS FOR DIMENSIONS AND ANNOTATIONS.
1. DIMENSIONS ON REFLECTED CEILING PLANS ARE FROM FACE OF FINISH TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
2. ALL CEILING MOUNTED ITEMS LOCATED IN A GWB CEILING SHALL BE PAINTED TO MATCH CEILING PAINT COLOR.
3. GENERAL CONTRACTOR SHALL COORDINATE CEILING REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
4. CENTER LIGHT FIXTURES IN ROOM, CEILING, OR SOFFIT, UNO.
5. CENTER VANITY LIGHT OVER MIRROR, UNO.
6. ALL GWB SOFFITS IN UNITS TO BE P1.
7. ALL GWB CEILING/SOFFITS IN COMMON AREAS TO BE P2, UNO. REFER TO REFLECTED CEILING FOR ACCENT PAINTS.
REFLECTED CEILING PLAN GENERAL NOTES

1. DIMENSIONS ON REFLECTED CEILING PLANS ARE FROM FACE OF FINISH TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
2. ALL CEILING MOUNTED ITEMS LOCATED IN A GWB CEILING SHALL BE PAINTED TO MATCH CEILING PAINT COLOR.
3. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS OR PLANS FOR CEILING DEVICES.
4. ALL GENERAL CONTRACTOR SHALL COORDINATE GWB REQUIREMENTS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
5. CENTER LIGHT FIXTURES IN ROOM, CEILING, OR SOFFIT, UNO.
6. CENTER VANITY LIGHT OVER MIRROR, UNO.
7. GWB SOFFITS IN UNITS TO BE PAINTED TO MATCH CEILING PAINT COLOR.
8. GWB CEILING / SOFFITS IN COMMON AREAS TO BE PAINTED TO MATCH CEILING PAINT COLOR.

NEW PARTITION, EXTEND ABOVE CEILING MINIMUM 6";
NEW PARTITION, EXTEND TO BOTTOM OF DECK; WHERE
THE SUPERFICIAL AREA OF GWB OCCURS, ONLY PAINT SHOWN OF GWB SHALL EXTEND TO DECK; SECOND LAYER SHALL
EXTEND MINIMUM 6" ABOVE FINISHED CEILING.

SOFFIT ACCENT COLOR

GWB CEILING / SOFFIT, REFER TO FINISH SCHEDULE FOR PAINT SELECTION

NEW PARTITION, EXTEND ABOVE CEILING MINIMUM 6"

SECOND LAYER SHALL EXTEND MINIMUM 6" ABOVE FINISHED CEILING.

CEILING HEIGHT X'-X"

6/8" TYPE 'X' GWB AT UNDERSIDE OF STAIRS AND INTERMEDIATE LANDINGS

UNDERSIDE OF RATED FLOOR-CEILING ASSEMBLY PLP2, REFER TO A2.00, A2.01 AND A5.10

REFER TO ENLARGED REFLECTED CEILING PLANS FOR DIMENSIONS AND ANNOTATIONS.
REFLECTED CEILING PLAN GENERAL NOTES

1. DIMENSIONS ON REFLECTED CEILING PLANS ARE FROM FACE OF FINISH TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
2. ALL CEILING MOUNTED ITEMS LOCATED IN A GWB CEILING SHALL BE PAINTED TO MATCH CEILING PAINT COLOR.
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR CEILING REQUIREMENTS.
4. GENERAL CONTRACTOR SHALL COORDINATE CEILING REQUIREMENTS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
5. CENTER LIGHT FIXTURES IN ROOM, CEILING, OR SOFFIT, UNLESS OTHERWISE NOTED.
6. CENTER VANITY LIGHT OVER MIRROR, UNLESS OTHERWISE NOTED.
7. GWB SOFFITS IN UNITS TO BE PAINTED P1.
8. GWB CEILING/SOFFITS IN COMMON AREAS TO BE PAINTED P2, UNLESS OTHERWISE NOTED.

RCP LEGEND

- GWB CEILING/SOFFIT, REFER TO REFLECTED CEILING FOR ACCENT PAINTS.
- REFLECTED CEILING PLAN GENERAL NOTES
- CEILING HEIGHT X' - X"
1. Dimensions on reflected ceiling plans are from face of finish to face of finish, unless otherwise noted.
2. All ceiling mounted items located in a GWB ceiling shall be painted to match ceiling paint color.
3. Reference mechanical, electrical and plumbing drawings for ceiling devices.
4. General contractor shall coordinate ceiling requirements with mechanical, electrical and plumbing drawings.
5. Center light fixtures in room, ceiling, or soffit, UNO.
6. Center vanity light over mirror, UNO.
7. All GWB soffits in units to be P1.
8. All GWB ceiling/soffits in common areas to be P2, UNO. Refer to reflected ceiling for accent paints.
9. New partition, extend above ceiling minimum 6".
10. New partition, extend to bottom of deck; where multiple layers of GWB occurs, only inside layers of GWB shall extend to deck. Second layer shall extend minimum 6" above finished ceiling.
11. GWB ceiling/soffit, refer to finish schedule for paint selection.
EXTERIOR ELEVATION GENERAL NOTES

1. REFER TO A5.10 FOR EXTERIOR MATERIALS AND COORDINATING PAINT TRIM.
2. ALL EXHAUST LOCATION REQUIRE 3'-0" MINIMUM CLEARANCE FROM ANY OPERABLE OPENING PER IMC.
3. REFER TO MECHANICAL FOR ALL VENT, LOUVER AND EXHAUST SIZE, LOCATIONS AND MOUNTING HEIGHT.
4. ALL UNISTRUT SUPPORTING UTILITY EQUIPMENT SHALL BE PAINTED TO MATCH THE BUILDING.
5. ALL BLOCKING FOR HOSE BIBS, WALL MOUNTED LIGHTS, RECEPTACLES, ETC. SHALL BE CLAD IN THE same siding material as the BUILDING. REFER TO DETAILS.

EXTERIOR ELEVATION LEGEND

- EAVES
- MECHANICAL WALL CAPS, ROUND
- PLP
- JOINT LAYOUT PER EXTERIOR ELEVATIONS
- PLP IOINT LAYOUT PER EXTERIOR ELEVATIONS AND ROOF
- PLP ALL JOINTS SHALL ALIGN WITH PV PANEL
- WP VERTICAL INSTALLATION

VOLUME 3: MULTI-FAMILY BUILDING
ANCHORAGE, ALASKA

WINDOW AREA:
ELEVATION AREA:
TOTAL PERCENTAGE:
528 SF
2140 SF
23.0 %

WINDOW AREA:
ELEVATION AREA:
TOTAL PERCENTAGE:
791 SF
4049 SF
19.5 %

PV PANEL
REFER TO ELECTRICAL FOR BOD

EXTERIOR ELEVATION GENERAL NOTES

1. REFER TO A5.10 FOR EXTERIOR MATERIALS AND COORDINATING PAINT TRIM.
2. ALL EXHAUST LOCATION REQUIRE 3'-0" MINIMUM CLEARANCE FROM ANY OPERABLE OPENING PER IMC.
3. REFER TO MECHANICAL FOR ALL VENT, LOUVER AND EXHAUST SIZE, LOCATIONS AND MOUNTING HEIGHT.
4. ALL UNISTRUT SUPPORTING UTILITY EQUIPMENT SHALL BE PAINTED TO MATCH THE BUILDING.
5. ALL BLOCKING FOR HOSE BIBS, WALL MOUNTED LIGHTS, RECEPTACLES, ETC. SHALL BE CLAD IN THE same siding material as the BUILDING. REFER TO DETAILS.
LEVEL 1

BUILDING SLOPE GRADE

SILL WS1

RIM JOISTS

FOUNDATION WALL AND FOOTING PER STRUCTURAL

SILL PLATE AS NECESSARY TO ACCOMMODATE OFFSET TOPS

2" MINIMUM CLOSED CELL SPRAY FOAM INSULATION AT ALL RIM JOISTS

HEADER VOID, TYP

FOAM INSULATION AT CLOSED CELL SPRAY FOAM INSULATION

PREFINISHED PANEL TOP

PREPARED PANEL TOP

CLOSED CELL SPRAY FOAM INSULATION

DAMP PROOFING, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

FOAM INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

BASEBOARD

HEATER, REFER TO MECH

FLOOR PLAN FOR WINDOW, REFER TO RCP

CELL SPRAY FOAM 3" MINIMUM CLOSED CELL TOPPING

GYPCRETE

TYPE DOUBLE SILL PLATE

TO FLOOR PLAN

3' - 0"

WALL SECTION

LEVEL 2

BEDROOM

STORAGE

D104-B1

D204-B1

D304-B1

F1

F2

F3

R1

LEVEL 3

GREAT ROOM

BEDROOM

STORAGE

B107-G

B207-G

B307-G

LEVEL 0

HALLWAY

HALLWAY

LEVEL 1

LEVEL 2

LEVEL 3

ROOF

WALL SECTION

FOOTING PER STRUCTURAL

OF FOUNDATION TO TOP OF FOOTING

7" MINIMUM CLOSED CELL SPRAY FOAM INSULATION AT ALL RIM JOISTS

7" MINIMUM CLOSED CELL SPRAY FOAM INSULATION AT ALL RIM JOISTS

7" EPS INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

7" EPS INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

HEADER VOID, TYP

FOAM INSULATION AT CLOSED CELL SPRAY FOAM INSULATION

PREFINISHED PANEL TOP

PREPARED PANEL TOP

CLOSED CELL SPRAY FOAM INSULATION

DAMP PROOFING, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

FOAM INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

BASEBOARD

HEATER, REFER TO MECH

FLOOR PLAN FOR WINDOW, REFER TO RCP

CELL SPRAY FOAM 3" MINIMUM CLOSED CELL TOPPING

GYPCRETE

TYPE DOUBLE SILL PLATE

TO FLOOR PLAN

3' - 0"

WALL SECTION

LEVEL 2

BEDROOM

STORAGE

D104-B1

D204-B1

D304-B1

F1

F2

F3

R1

LEVEL 3

GREAT ROOM

BEDROOM

STORAGE

B107-G

B207-G

B307-G

LEVEL 0

HALLWAY

HALLWAY

LEVEL 1

LEVEL 2

LEVEL 3

ROOF

WALL SECTION

FOOTING PER STRUCTURAL

OF FOUNDATION TO TOP OF FOOTING

7" MINIMUM CLOSED CELL SPRAY FOAM INSULATION AT ALL RIM JOISTS

7" MINIMUM CLOSED CELL SPRAY FOAM INSULATION AT ALL RIM JOISTS

7" EPS INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

7" EPS INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

HEADER VOID, TYP

FOAM INSULATION AT CLOSED CELL SPRAY FOAM INSULATION

PREFINISHED PANEL TOP

PREPARED PANEL TOP

CLOSED CELL SPRAY FOAM INSULATION

DAMP PROOFING, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

FOAM INSULATION, EXTEND FROM TOP OF FOUNDATION TO BASE OF FOOTING

BASEBOARD

HEATER, REFER TO MECH

FLOOR PLAN FOR WINDOW, REFER TO RCP

CELL SPRAY FOAM 3" MINIMUM CLOSED CELL TOPPING

GYPCRETE

TYPE DOUBLE SILL PLATE

TO FLOOR PLAN

3' - 0"

WALL SECTION

LEVEL 2

BEDROOM

STORAGE

D104-B1

D204-B1

D304-B1

F1

F2

F3

R1

LEVEL 3

GREAT ROOM

BEDROOM

STORAGE

B107-G

B207-G

B307-G

LEVEL 0

HALLWAY

HALLWAY
### DOOR AND FRAME SCHEDULE - COMMON AREAS

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<th>DOOR NUMBER</th>
<th>TYPE</th>
<th>MATL</th>
<th>FINISH</th>
<th>GLASS TYPE</th>
<th>SIZE</th>
<th>HEAD</th>
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<th>FIRE RATING</th>
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### DOOR AND FRAME SCHEDULE - RESIDENTIAL UNITS

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</table>
1. All glazing shall comply with Chapter 24.
2. Safety glazing shall be provided per Chapter 24.
3. Refer to location regulations for location and direction of all curtain wall frames.
4. Exterior seal color to be white except window types B and H. Window types B and H shall include spandrel color.
5. Interior vinyl color to be white.
6. All operable windows shall be provided with window fall prevention devices that comply with ASTM F2090.
7. All windows shall be double glazed.
8. All windows shall be white.
9. Interior of window jams and head shall be wrapped with foil. Faced to match adjacent jambs.
10. Basis of design: triple pane, low-e Argon filled, maximum u-factor of 0.20 (or as specified to achieve Bees Rating).
11. Basis of design: double pane, low-e Argon filled, maximum u-factor of 0.30 (or as specified to achieve Bees Rating).

**VINYL WINDOW GENERAL NOTES**

1. All glazing shall comply with Chapter 24.
2. Safety glazing shall be provided per Chapter 24.
3. Refer to location for glazing types.
4. All windows to be IG1 unless noted otherwise.
5. All interior glazing to be G2 unless noted otherwise.
6. Mullion finish to be clear anodized.
7. Storefront Mullion Profile Body: 2" x 4 1/2" thermally broken
8. Curtain Wall Mullion Profile Body: 2" x 6" thermally broken

---

**GLAZING LEGEND**

01. Insulated Glazing Unit (IGU)
02. Double Glazing Unit (DGU)
03. Tempered Insulated Glazing Unit (TIGU)
04. Insulated Glass Unit (IGU)
05. Glass Coating: Clear
06. Glass Coating: Clear
07. Glass Coating: Clear
08. Glass Coating: Clear
09. Glass Coating: Reflective 30%
10. Glass Coating: Reflective 30%
11. Glass Coating: Reflective 30%
12. Glass Coating: Reflective 30%
13. Glass Coating: Reflective 30%
14. Glass Coating: Reflective 30%
15. Glass Coating: Reflective 30%
16. Glass Coating: Reflective 30%
17. Glass Coating: Reflective 30%
18. Glass Coating: Reflective 30%
19. Glass Coating: Reflective 30%
20. Glass Coating: Reflective 30%

---

**VINYL WINDOW DETAILS**

A: Typical Vinyl Window at PLP Head
B: Typical Vinyl Window at PLP Jamb
C: Typical Vinyl Window at PLP Sill
D: Typical Vinyl Window at MP Head
E: Typical Vinyl Window at MP Jamb
F: Typical Vinyl Window at MP Sill

---

**STOREFRONT/CURTAIN WALL TYPES**

1. All glazing shall comply with Chapter 24.
2. Safety glazing shall be provided per Chapter 24.
3. Refer to location for glazing types.
4. All exterior glazing to be IG1 unless noted otherwise.
5. All interior glazing to be IG1 unless noted otherwise.
6. Mullions to be clear anodized.
7. Storefront Mullion Profile Body: 2" x 1 1/2" thermally broken
8. Curtain Wall Mullion Profile Body: 2" x 4" thermally broken

---

**STOREFRONT/CURTAIN WALL GENERAL NOTES**

1. All glazing shall comply with Chapter 24.
2. Safety glazing shall be provided per Chapter 24.
3. Refer to location for glazing types.
4. All exterior glazing to be IG1 unless noted otherwise.
5. All interior glazing to be IG1 unless noted otherwise.
6. Mullions to be clear anodized.
7. Storefront Mullion Profile Body: 2" x 1 1/2" thermally broken
8. Curtain Wall Mullion Profile Body: 2" x 4" thermally broken

---

**STOREFRONT DETAILS**

A: Storefront Typical Jamb at MP
B: Storefront Typical Head Detail at MP
C: Storefront Mullion at Roof Joist
D: Storefront Window Detail at MP
E: Storefront General Detail at MP
F: Storefront All Details at MP

---

**GLAZING LEGEND**

01. Insulated Glazing Unit
02. Double Glazing Unit
03. Tempered Insulated Glazing Unit
04. Insulated Glass Unit
05. Glass Coating: Clear
06. Glass Coating: Reflective 30%
07. Glass Coating: Reflective 30%
08. Glass Coating: Reflective 30%
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14. Glass Coating: Reflective 30%
15. Glass Coating: Reflective 30%
16. Glass Coating: Reflective 30%
17. Glass Coating: Reflective 30%
18. Glass Coating: Reflective 30%
19. Glass Coating: Reflective 30%
20. Glass Coating: Reflective 30%

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**VIEWING GUIDES**

CREATE PDF REFERENCE TO SUBJECT
CREATE PDF REFERENCE TO SUBJECT

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**BID DOCUMENTS**

A5.02
### COLOR AND MATERIAL LEGEND - INTERIOR FINISHES

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<th>MARK</th>
<th>MATERIAL</th>
<th>MANUFACTURER</th>
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### APPLIANCES / TOILET ROOM ACCESSORIES / SPECIALTY EQUIPMENT

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<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>MANUFACTURER</th>
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### MATERIAL GENERAL NOTES

1. WALL / CEILING PAINT AND TEXTURE

   - **A.** FIRST COAT: BENJAMIN MOORE ADVANCE WATERBORNE INTERIOR ALKYD PAINT - PRIMER (790) OR EQUAL.
   - **B.** SECOND COAT: PRODUCT AS SPECIFIED IN COLOR AND MATERIAL LEGEND.

### SPECIALTY EQUIPMENT - LOBBY

- **EC1** - ELEVATOR CAB BUMPERS/BASE OTIS - SATIN STAINLESS STEEL 6" - FLAT BUMPERS/BASE ON 3 SIDES
- **EC2** - ELEVATOR CAB CEILING OTIS - PAINTED WHITE - 4 LED FLUSH CEILING (FC-4)
- **EC3** - ELEVATOR CAB HANDRAILS OTIS - SATIN STAINLESS STEEL 2" - FLAT HANDRAIL (DH-155)
- **EC4** - ELEVATOR CAB DOORS OTIS - SATIN STAINLESS STEEL - 1 HOUR RATED
- **EC5** - ELEVATOR CAB BUMPERS/BASE OTIS - SATIN STAINLESS STEEL 6" - FLAT BUMPERS/BASE ON 3 SIDES

### SPECIALTY EQUIPMENT - STORAGE

- **EP1** - EXTERIOR PAINT SHERWIN WILLIAMS ALL SURFACE ENAMEL CITYSCAPE SW7067 ENAMEL TO MATCH MP1
- **EP2** - EXTERIOR PAINT SHERWIN WILLIAMS ALL SURFACE ENAMEL HEARTY ORANGE SW6622 - ENAMEL TO MATCH PLP4-A
- **EP3** - EXTERIOR PAINT SHERWIN WILLIAMS ALL SURFACE ENAMEL TALL BLACK SW7731 - ENAMEL TO MATCH PLP3

### SPECIALTY EQUIPMENT - LOBBY

- **EP4** - EXTERIOR PAINT SHERWIN WILLIAMS ALL SURFACE ENAMEL AURIC SW6692 - ENAMEL TO MATCH PLP4-C
- **EP5** - EXTERIOR PAINT SHERWIN WILLIAMS ALL SURFACE ENAMEL ANTIQUE COPPER SW6692 - ENAMEL TO MATCH PLP3

### APPLIANCE GENERAL NOTES

1. UNIT APPLIANCES (ALL UNITS)

   - **RG1** - RANGE GE APPLIANCES JB258DMWW WHITE 30" FREE-STANDING, SELF-CLEANING ELECTRIC RANGE, ELECTRIC COILS
   - **RG2** - DROP-IN RANGE (UFAS)
   - **RG3** - RANGE (NON-UFAS 1-BEDROOM)

2. UNIT APPLIANCES (ALL EFFICIENCY UNITS)

   - **REF1** - REFRIGERATOR GE APPLIANCES GIE22JTNRWW WHITE 21.9 CU. FT. TOP-FREEZER REFRIGERATOR WITH ICE MAKER, ENERGY STAR QUALIFIED, ADA COMPLIANT
   - **REF2** - REFRIGERATOR (UFAS) GE APPLIANCES GSE23GGKWW WHITE ENERGY STAR QUALIFIED, ADA COMPLIANT, 23.2 CU. FT. SIDE-BY-SIDE
   - **REF3** - COMPACT REFRIGERATOR GE APPLIANCES GPE12FGKKW WHITE 11.6 FT. TOP-FREEZER REFRIGERATOR, ENERGY STAR QUALIFIED, ADA COMPLIANT

3. UNIT APPLIANCES (NON-UFAS 1-BEDROOM)

   - **DR1** - DROP-IN RANGE (UFAS)
   - **DR3** - RANGE HOOD PER MECHANICAL PER CODE DESCRIPTION MANUFACTURER MODEL FINISH COMMENTS
1. REFER TO A5.00 FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULES.
2. ALL WALLS AND CEILINGS IN UNITS TO RECEIVE P1 UNLESS OTHERWISE INDICATED.
3. ALL WALLS AND CEILINGS IN PUBLIC AREAS TO RECEIVE P2 UNLESS OTHERWISE INDICATED.
4. ALL FLOORING SHALL EXTEND UNDER CASEWORK WHERE NO FIXED BASE CABINETS ARE PROVIDED.
5. NO RUBBER BASE SEAM SHALL OCCUR WITHIN 12" OF A WALL CORNER.
6. ALL CHANGES IN FLOOR MATERIAL SHALL OCCUR AT THE CENTER LINE OF DOOR UNLESS OTHERWISE NOTED.
7. ALL ACCESS PANELS TO MATCH ADJACENT SURFACE PAINT COLOR.
8. ALL CABINET CASEWORK FILLERS SHALL MATCH ADJACENT FACE OF CABINETS.
9. CASEWORK DOOR / DRAWER PULL BASIS OF DESIGN: LIBERTY CABINET BAR PULL, SATIN NICKEL, ADA COMPLIANT.

REFER TO ENLARGED FINISH PLANS FOR FLOOR, BASE, CEILING AND WALL FINISHES.

PAGE 1 OF 1

RETURN TO BASE FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULES.
ALL WALLS AND CEILINGS IN UNITS TO RECEIVE P1 UNLESS OTHERWISE INDICATED.
ALL WALLS AND CEILINGS IN PUBLIC AREAS TO RECEIVE P2 UNLESS OTHERWISE INDICATED.
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ALL CABINET CASEWORK FILLERS SHALL MATCH ADJACENT FACE OF CABINETS.
CASEWORK DOOR / DRAWER PULL BASIS OF DESIGN: LIBERTY CABINET BAR PULL, SATIN NICKEL, ADA COMPLIANT.

REFER TO A5.00 FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULES.
ALL WALLS AND CEILINGS IN UNITS TO RECEIVE P1 UNLESS OTHERWISE INDICATED.
ALL WALLS AND CEILINGS IN PUBLIC AREAS TO RECEIVE P2 UNLESS OTHERWISE INDICATED.
ALL FLOORING SHALL EXTEND UNDER CASEWORK WHERE NO FIXED BASE CABINETS ARE PROVIDED.
NO RUBBER BASE SEAM SHALL OCCUR WITHIN 12" OF A WALL CORNER.
ALL CHANGES IN FLOOR MATERIAL SHALL OCCUR AT THE CENTER LINE OF DOOR UNLESS OTHERWISE NOTED.
ALL ACCESS PANELS TO MATCH ADJACENT SURFACE PAINT COLOR.
ALL CABINET CASEWORK FILLERS SHALL MATCH ADJACENT FACE OF CABINETS.
CASEWORK DOOR / DRAWER PULL BASIS OF DESIGN: LIBERTY CABINET BAR PULL, SATIN NICKEL, ADA COMPLIANT.
FINISH PLAN GENERAL NOTES:
1. REFER TO A5.00 FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULES.
2. ALL WALLS AND GWB CEILINGS IN UNITS TO RECEIVE P2 UNLESS OTHERWISE INDICATED.
3. ALL WALLS AND GWB CEILINGS IN PUBLIC AREAS TO RECEIVE P2 UNLESS OTHERWISE INDICATED.
4. NO RUBBER BASE SEAM SHALL OCCUR WITHIN 12" OF A WALL CORNER.
5. ALL CHANGES IN FLOOR MATERIAL SHALL OCCUR AT THE CENTER LINE OF DOOR UNLESS OTHERWISE NOTED.
6. ALL ACCESS PANELS TO MATCH ADJACENT SURFACE PAINT COLOR.
7. ALL CABINET CASEWORK FILLERS SHALL MATCH ADJACENT FACE OF CABINETS.
8. CASEWORK DOOR / DRAWER PULL BASIS OF DESIGN:
   - LIBERTY CABINET BAR PULL, SATIN NICKEL, ADA COMPLIANT (LEVEL 3)
   - CPT1 (LEVEL 2)
   - CPT2 (LEVEL 3)
   - CPT3 (LEVEL 3)
   - WP1
   - WP2
   - RF1
   *WOM TREAD WITH RUBBER STAIR NOSING AND RISER AT ALL STAIRS

REFER TO ENLARGED FINISH PLANS FOR FLOOR, BASE, CEILING AND WALL FINISHES.

FINISH LEGEND:
- WB = WOOD FINISH
- MW = MASONRY FINISH
- CW = CONCRETE
- WR = WOOD REFERENCE

LEVEL 2 FINISH SCHEDULE

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>FLOOR</th>
<th>BASE</th>
<th>WALLS</th>
<th>CEILING</th>
<th>COMMENTS/NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 COMMONS</td>
<td>200</td>
<td>CPT 2 / CPT 3</td>
<td>RB2</td>
<td>P2 / P3 / P5</td>
<td>REFER TO FINISH PLAN FOR CARPET INSTALLATION PATTERN. REFER TO RCP FOR SOFFIT PAINT COLORS AND LOCATIONS</td>
</tr>
<tr>
<td>200H HALLWAY</td>
<td>200</td>
<td>CPT 2 / CPT 3</td>
<td>RB2</td>
<td>P2 / P3 / P5</td>
<td>REFER TO FINISH PLAN FOR CARPET INSTALLATION PATTERN. REFER TO RCP FOR SOFFIT PAINT COLORS AND LOCATIONS</td>
</tr>
<tr>
<td>200J JANITOR</td>
<td>200</td>
<td>RF2</td>
<td>RB2</td>
<td>WP2 / P2</td>
<td>WP2 TO 8' AFF WITH P2 ABOVE.</td>
</tr>
<tr>
<td>200R REFUSE</td>
<td>200</td>
<td>RF2</td>
<td>RB2</td>
<td>WP2 / P2</td>
<td>WP2 TO 4' AFF WITH P2 ABOVE.</td>
</tr>
<tr>
<td>S01 STAIR</td>
<td>200</td>
<td>WOM / RSR1 / RSN1</td>
<td>RB2</td>
<td>P2</td>
<td>WOM TREADS WITH RUBBER NOSING AND RISER</td>
</tr>
<tr>
<td>S02 STAIR</td>
<td>200</td>
<td>WOM / RSR1 / RSN1</td>
<td>RB2</td>
<td>P2</td>
<td>WOM TREADS WITH RUBBER NOSING AND RISER</td>
</tr>
</tbody>
</table>

REVISION SCHEDULE:
<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION</th>
<th>DATE</th>
</tr>
</thead>
</table>
FINISH PLAN GENERAL NOTES

1. REFER TO A5.00 FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULES.
2. ALL WALLS AND CEILINGS IN UNITS TO RECEIVE P1 UNLESS OTHERWISE INDICATED.
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6. ALL CHANGES IN FLOOR MATERIAL SHALL OCCUR AT THE CENTER LINE OF DOOR UNLESS OTHERWISE NOTED.
7. ALL ACCESS PANELS TO MATCH ADJACENT SURFACE PAINT COLOR.
8. ALL CABINET CASEWORK FILLERS SHALL MATCH ADJACENT FACE OF CABINETS.
9. CASEWORK DOOR / DRAWER PULL BASIS OF DESIGN: LIBERTY CABINET BAR PULL, SATIN NICKEL, ADA COMPLIANT

LEVEL 3 FINISH PLAN

<table>
<thead>
<tr>
<th>ROOM NAME</th>
<th>FLOOR</th>
<th>WALLS</th>
<th>CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMONS</td>
<td>300</td>
<td>CPT2</td>
<td>CPT3</td>
</tr>
<tr>
<td>HALLWAY</td>
<td>300H</td>
<td>CPT2</td>
<td>CPT3</td>
</tr>
<tr>
<td>JANITOR</td>
<td>300J</td>
<td>RF2</td>
<td>RB2</td>
</tr>
<tr>
<td>REFUSE</td>
<td>300R</td>
<td>RF2</td>
<td>RB2</td>
</tr>
</tbody>
</table>

STAIR 1 (WOM / RSR1 / RSN1)  
STAIR 2 (WOM / RSR1 / RSN1)  

*WOM TREAD WITH RUBBER STAIR NOSING AND RISER AT ALL STAIRS

REFER TO ENLARGED FINISH PLANS FOR FLOOR, BASE, CEILING AND WALL FINISHES.

LEVEL 3 FINISH SCHEDULE

<table>
<thead>
<tr>
<th>RM</th>
<th>NUMBER</th>
<th>ROOM NAME</th>
<th>FLOOR</th>
<th>BASE</th>
<th>WALLS</th>
<th>CEILING</th>
<th>FINISH</th>
<th>COMMENTS/NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>COMMONS</td>
<td>300</td>
<td>L3</td>
<td>P7</td>
<td>P2</td>
<td>P3</td>
<td>CPT2</td>
<td>REFER TO FINISH PLAN FOR CARPET INSTALLATION PATTERN. REFER TO RCP FOR SOFFIT PAINT COLORS AND LOCATIONS</td>
</tr>
<tr>
<td>300H</td>
<td>HALLWAY</td>
<td>300H</td>
<td>L3</td>
<td>P7</td>
<td>P2</td>
<td>P3</td>
<td>CPT2</td>
<td>REFER TO FINISH PLAN FOR CARPET INSTALLATION PATTERN. REFER TO RCP FOR SOFFIT PAINT COLORS AND LOCATIONS</td>
</tr>
<tr>
<td>300J</td>
<td>JANITOR</td>
<td>300J</td>
<td>L3</td>
<td>P2</td>
<td>P2</td>
<td>P2</td>
<td>RF2</td>
<td>WP2 TO 8' AFF WITH P2 ABOVE.</td>
</tr>
<tr>
<td>300R</td>
<td>REFUSE</td>
<td>300R</td>
<td>L3</td>
<td>P2</td>
<td>P2</td>
<td>P2</td>
<td>RF2</td>
<td>WP2 TO 4' AFF WITH P2 ABOVE.</td>
</tr>
</tbody>
</table>

REVISION SCHEDULE

<table>
<thead>
<tr>
<th>#</th>
<th>DESCRIPTION</th>
<th>DATE</th>
</tr>
</thead>
</table>

FINISH LEGEND

- P1: WHITE
- P2: CHARCOAL
- P3: TAUPE
- P4: CEMENT
- P5: PAGODA
- P6: PALLADIUM
- CPT1: CORK
- CPT2: LUXE
- CPT3: CONCRETE
- RF1: LIGHT GREY
- RF2: DARK GREY
- RB2: PEWTER
- CO1: COOL WHITE
- FM: FROSTED MILLWORK
- FF: WOOD FINISH
### Room Finish Schedule

<table>
<thead>
<tr>
<th>Room Name</th>
<th>Floor</th>
<th>Base</th>
<th>Walls</th>
<th>Ceiling</th>
<th>Comments / Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bath</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bedroom</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Closet</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great Room</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kitchen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General Notes

1. Refer to A5.00 for material, appliance and toilet accessory schedules.
2. All walls and door surrounds in units to receive PI unless otherwise indicated.
3. All walls and door surrounds in public areas to receive PI unless otherwise indicated.
4. All flooring shall extend under casework where no fixed base cabinets are provided.
5. No rubber base seam shall occur within 12" of a wall corner.
6. All changes in floor material shall occur at the center line of door unless otherwise noted.
7. All access panels to match adjacent surface paint color.
8. All cabinet casework fillers shall match adjacent face of cabinets.
10. ENLARGED FINISH PLANS FOR FLOOR, BASE, CEILING AND WALL FINISHES.

### Certificate of Authorization

Spark Design, LLC #AECL1394

2020.09.04

BID DOCUMENTS

1/4" = 1'-0"
1. REFER TO A5.00 FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULES.
2. ALL WALLS AND GWB CEILINGS IN UNITS TO RECEIVE P1 UNLESS OTHERWISE INDICATED.
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8. ALL CABINET CASEWORK FILLERS SHALL MATCH ADJACENT FACE OF CABINETS.
9. CASEWORK DOOR / DRAWER PULL BASIS OF DESIGN: LIBERTY CABINET BAR PULL, SATIN NICKEL, ADA COMPLIANT (LEVEL 2)
   CPT1 (LEVEL 3)
   RF1 (LEVEL 1)

REFER TO ENLARGED FINISH PLANS FOR FLOOR, BASE, CEILING AND WALL FINISHES.

FINISH LEGEND

FINISH PLAN GENERAL NOTES

ROOM FINISH SCHEDULE 1-BEDROOM

ROOM NAME | FLOOR | BASE | WALLS | CEILING | COMMENTS / NOTES
----------|-------|------|-------|---------|-----------------
BATH      | 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1
BEDROOM   | 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1
CLOSET    | 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1
GREAT ROOM| 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1
KITCHEN   | 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1

ROOM FINISH SCHEDULE STUDIO

ROOM NAME | FLOOR | BASE | WALLS | CEILING | COMMENTS / NOTES
----------|-------|------|-------|---------|-----------------
BATH      | 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1
GREAT ROOM| 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1
KITCHEN   | 1     | 1-P1 | 1-P1  | 1-P1    | 1-P1

VOLUME 3: MULTI-FAMILY BUILDING
ANCHORAGE, ALASKA

ENLARGED UFAS FINISH PLANS

SPARK DESIGN, LLC
#AECL1394
2020.09.04

BID DOCUMENTS
CASEWORK - ISLAND SINK

CASEWORK - SINK BASE CABINET

1 1/2" = 1'-0"

CASEWORK - ISLAND SINK

CASEWORK - SINK BASE CABINET

1 1/2" = 1'-0"
1 1/2" PAINTED STEEL HANDRAIL, RETURN TO WALL, TYP
1 1/2" PAINTED STEEL HANDRAIL, RETURN TO FLOOR

8 EQ TREADS AT 11" MIN EACH
7' - 4"

1 TREAD AT 11" MIN
11"

1/2" = 1'-0"

STAIR 02 - LEVEL 1
STAIR 02 - LEVEL 2
STAIR 02 - LEVEL 3

BID DOCUMENTS
INTERIOR ELEVATION / FINISH GENERAL NOTES

1. REFER TO A5.10 FOR MATERIAL, APPLIANCE AND TOILET ACCESSORY SCHEDULE.
2. REFER TO A8.00 FOR STANDARD MOUNTING HEIGHTS.
3. ALL WALLS TO BE PI.
4. ALL CEILING, TOILET, CABINET, AND APPLIANCE SPACES TO BE MAPPED ON THE DRAWING.
5. ALL WALLS TO BE PI EXCEPT IN BATHROOMS AND LAUNDRY ROOMS.
6. CONTRACTOR TO PROVIDE null
table
8. 'FE' NOTATION ON CASEWORK ELEVATION INDICATES A FINISHED END PANEL ON EXPOSED SIDE OF CABINET.
9. ALL FULL HEIGHT END PANELS TO BE 24" DEEP AND FINISHED ON BOTH SIDES.
10. CABINET/DRAWER PULLS BASIS OF DESIGN: 4" WIRE PULLS, BRUSHED OR SATIN NICKEL.
11. WHERE 34" HEIGHT IS NOTED, THE 34" HEIGHT SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE TOP OF FLOOD RIM OF THE FIXTURE OR THE SINK, WHICHERVER IS GREATER.
12. CLOSET AND STORAGE SHELVING MAY BE PAINTED MDF OR WHITE MELAMINE FINISH, MINIMUM SHELF DEPTH IS 15". CLOSET SHALL HAVE A WHITE MELAMINE SHELF AND ROD COMBINATION, PANTRIES AND LINEN CLOSETS ARE TO HAVE A MINIMUM OF (5) FIXED SHELVES, SHELVES CAN REST ON LEADER BOARDS OF A CLOSET SYSTEM.
13. INSULATE PIPES AT ALL SINK LOCATIONS WITH EXPOSED PIPING IN UFAS UNITS.
14. CONTRACTOR SHALL BACK CHECK APPLIANCE CUT SHEETS WITH ALL CASEWORK TO CONFIRM ADEQUATE CLEARANCE IS PROVIDED.
15. CONTRACTOR TO PROVIDE AND INSTALL BLOCKING FOR ALL WALL MOUNTED TOILET ACCESSORIES.
16. PROVIDE BLOCKING FOR FUTURE GRAB BARS IN NON-UFAS UNITS. REFER TO A8.00 FOR LOCATIONS.
# Schedule of Construction Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Application Type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCRETE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exterior Concrete (Exposed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interior Slabs (Not Exposed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Footings, Foundation Walls</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Structural Design Criteria Schedule

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Value</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRC</td>
<td>Analysis Procedure</td>
<td>ELF</td>
<td>PER ADEA 7-16</td>
</tr>
</tbody>
</table>

### Structural Observations

- The contractor shall maintain a current set of drawings on site, modified to reflect all design changes to the original drawing set.
- PND engineers are not responsible for safety programs, methods, or procedures of operation, or the construction of the design shown in these drawings. Drawings are for use on this project only and are not intended for reuse without written approval from PND. Drawings are also not to be used in any manner that would constitute a detriment directly or indirectly to PND.

## DEFERRED SUBMITTALS

- Seismic restraint of architectural, mechanical, and electrical components
- Elevator support
- Roofing attachments

## Notes

1. See design criteria sheet for wind pressures.
### REQUIRED INSPECTION OF SOILS

<table>
<thead>
<tr>
<th>Required Inspection of Soils</th>
<th>Frequency of Inspection</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Verify materials below sealed foundation are adequate to achieve the design bearing capacity</td>
<td>Periodic</td>
<td></td>
</tr>
<tr>
<td>Verify excavations extend to proper depth and have reached proper material</td>
<td>Periodic</td>
<td></td>
</tr>
<tr>
<td>Perform classification and testing of fill materials</td>
<td>Periodic</td>
<td></td>
</tr>
<tr>
<td>Verify use of proper materials, dimensions, and lift thicknesses during placement and compaction of compacted fill</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td>Perform placement of compacted fill, observe subgrade and verify that the site has been prepared properly</td>
<td>Periodic</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIAL INSPECTION FOR WIND RESISTANCE

<table>
<thead>
<tr>
<th>Special Inspection for Wind Resistance</th>
<th>Frequency of Inspection</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Wood: Roof, Siding, Anchoring and Fastening of Wood Shear Walls, Drag Struts, Holdowns and Diaphragms</td>
<td>Periodic</td>
<td></td>
</tr>
<tr>
<td>Architectural Components: Roof and Wall Cladding</td>
<td>Periodic</td>
<td></td>
</tr>
</tbody>
</table>

### SPECIAL INSPECTION FOR SEISMIC RESISTANCE

<table>
<thead>
<tr>
<th>Special Inspection for Seismic Resistance</th>
<th>Frequency of Inspection</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Wood: Roof, Siding, Anchoring and Fastening of Wood Shear Walls, Drag Struts, Holdowns and Diaphragms</td>
<td>Periodic</td>
<td></td>
</tr>
<tr>
<td>Architectural Components: Roof and Wall Cladding; Interior and Exterior Non-Bearing Walls; Interior and Exterior Veneer Systems</td>
<td>Periodic</td>
<td></td>
</tr>
<tr>
<td>Structural Steel: In accordance with the Quality Assurance Plan Requirements of AISC, 1910.6</td>
<td>Periodic</td>
<td></td>
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</table>
WOOD STUD WALL SCHEDULE

<table>
<thead>
<tr>
<th>STUD</th>
<th>MATERIAL</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTL</td>
<td>15</td>
<td>TRIMMER STUDS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>KING STUDS</td>
</tr>
<tr>
<td>2x6</td>
<td>9 1/2&quot;</td>
<td>27'</td>
</tr>
<tr>
<td>1'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MATERIAL

15 TRIMMER STUDS
(3) 2x6 9 1/2" 27'

NOTE: WALL FRAMING IS 6W UNLESS NOTED OTHERWISE ON PLAN.

HEADER SCHEDULE

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SIZE</th>
<th>TRIMMER STUD</th>
<th>KING STUD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTL</td>
<td>1'</td>
<td>12'</td>
<td>12'</td>
</tr>
</tbody>
</table>

WIREMESH LUMBER INDEX

118 12' FOR BEARING WALLS

REMARKS

SERIES

5 1/2" x 21" 27' 15 1'

CAST

(2) 2x6 16" 7' 1' 1' 1' 100 - 9 1/2"

DIMENSION LUMBER

21 GLB

WOOD FRAMING SCHEDULES AND TYPICAL DETAILS

LOAD BEARING WALLS, SEE SCHEDULE

99503 AVENUE AK, NOTE: ALL HEADERS ARE LOCATED AT THE TOP OF OPENING.

SEE HEADER SCHEDULE

9 - 8 - 2020 ENGINEERS

CERTIFICATE OF AUTHORIZATION NO: SPARK DESIGN, LLC #AECL1394

BASIS OF DESIGN FOR WOOD I-JOIST IS BOISE CASCADE BCI.

MAX. LL DEFLECTION IS L/480 FLOORS AND L/240 FOR ROOFS.

JOIST HANGERS ARE SIMPSON IUS/ITS OR EQUAL.

3/4" = 1'-0"5 TYPICAL TIMBER POST CAP DETAIL

NOTE: HEADER IS REQ'D AT ALL WINDOW, DOOR, AND MECHANICAL
POSITION WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

WOOD POST BASE

NEW OR EXIST TREATED SILL PLATE

NEW OR EXIST
STUD WALL AND SHEATHINGS

8" HEADED
ANCHOR BOLT @ 32" DC

NEW CONC
STUD WALL ON THICKENED SLAB

NOTE:
1. ANCHOR SIZE AND SPACING AND SILL PLATE SIZE SPECIFIED THIS DETAIL FOR ALL NON-
SHEAR STRUCTURAL BEARING WALLS. SIZE AND SPACING FOR SHEAR WALLS CAN BE
FOUND IN THE SHEAR WALL SCHEDULE.
2. ALL ANCHORS SHALL BE HOT DIPPED GALVANIZED ASTM A307 BOLTS OR THREADED RODS
3. ALL ANCHORS SHALL HAVE A GALV STD WASHER BETWEEN SILL PLATE AND NUT.
ANCHORS SHALL BE PLACED A MINIMUM OF 3" AWAY FROM EDGE OF CONC AND LOCATED NO CLOSER THAN 6" FROM END OF WALL.

WOOD I-JOIST SCHEDULE

<table>
<thead>
<tr>
<th>I-JOIST</th>
<th>DESIGN OCD</th>
<th>MAX MIN</th>
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</thead>
<tbody>
<tr>
<td>2x6</td>
<td>9 1/2&quot;</td>
<td>27'-0&quot;</td>
</tr>
<tr>
<td>2x6</td>
<td>16&quot;</td>
<td>15'-0&quot;</td>
</tr>
<tr>
<td>2x6</td>
<td>1&quot;</td>
<td>7'-0&quot;</td>
</tr>
<tr>
<td>2x6</td>
<td>2&quot;</td>
<td>5'-0&quot;</td>
</tr>
<tr>
<td>2x6</td>
<td>3&quot;</td>
<td>3'-0&quot;</td>
</tr>
</tbody>
</table>

WOOD I-JOIST Detail

WOOD BEAM SCHEDULE

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MATERIAL</th>
<th>DESIGN OCD</th>
<th>MAX MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>6x6</td>
<td>9 1/2&quot;</td>
<td>21'-0&quot;</td>
<td>27'-0&quot;</td>
</tr>
<tr>
<td>6x6</td>
<td>16&quot;</td>
<td>15'-0&quot;</td>
<td>21'-0&quot;</td>
</tr>
<tr>
<td>6x6</td>
<td>1&quot;</td>
<td>7'-0&quot;</td>
<td>15'-0&quot;</td>
</tr>
<tr>
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<td>2&quot;</td>
<td>5'-0&quot;</td>
<td>15'-0&quot;</td>
</tr>
<tr>
<td>6x6</td>
<td>3&quot;</td>
<td>3'-0&quot;</td>
<td>15'-0&quot;</td>
</tr>
</tbody>
</table>

WOOD POST SCHEDULE

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MATERIAL</th>
<th>DESIGN OCD</th>
<th>MAX MIN</th>
</tr>
</thead>
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</table>

NOTES:

1. ALL SAWN LUMBER POSTS ARE D.F. No. 1.
2. PROVIDE WEB STIFFENERS AS REC'D BY MANUFACTURER AT BEARINGS AND FOR STABILITY AT JOIST HANGERS
3. 3/4" MIN. CLEARANCE
4. WOOD BEAM SCHEDULE
5. SEE TYP DETAILS
6. THICKENED SLAB
7. NEW OR EXIST SHEATHINGS
8. NOTE: I-JOIST WEB STIFFENERS
9. SUPPLIED AND INSTALLED

WOOD FRAMED STUD WALL

SIMPSON SDS25412 EA SIDE OF WEB

SEE SHEET S1.00 FOR BEAM PROPERTIES.

ROOF OR FLOOR JOIST

"SIMPSON STC" JOIST

(WOOD I-JOIST)

I-JOIST AND RIM BOARD FASTENING

NON-BEARING PARTITION DETAILS

WOOD POST BASE

NEW OR EXIST STUD WALL AND SHEATHINGS

NEW CONC
STUD WALL ON THICKENED SLAB

NOTE:
1. ANCHOR SIZE AND SPACING AND SILL PLATE SIZE SPECIFIED THIS DETAIL FOR ALL NON-
SHEAR STRUCTURAL BEARING WALLS. SIZE AND SPACING FOR SHEAR WALLS CAN BE
FOUND IN THE SHEAR WALL SCHEDULE.
2. ALL ANCHORS SHALL BE HOT DIPPED GALVANIZED ASTM A307 BOLTS OR THREADED RODS
3. ALL ANCHORS SHALL HAVE A GALV STD WASHER BETWEEN SILL PLATE AND NUT.
ANCHORS SHALL BE PLACED A MINIMUM OF 3" AWAY FROM EDGE OF CONC AND LOCATED NO CLOSER THAN 6" FROM END OF WALL.

WOOD POST BASE

CAST IN PLACE

POST INSTALLED

FLOOR

FLOOR

NEW OR EXIST TREATED SILL PLATE

NEW OR EXIST STUD WALL AND SHEATHINGS

8" HEADED
ANCHOR BOLT @ 32" DC

NEW CONC
STUD WALL ON THICKENED SLAB

NOTE:
1. ANCHOR SIZE AND SPACING AND SILL PLATE SIZE SPECIFIED THIS DETAIL FOR ALL NON-
SHEAR STRUCTURAL BEARING WALLS. SIZE AND SPACING FOR SHEAR WALLS CAN BE
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WOOD SHEAR WALL SCHEDULE

<table>
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<tr>
<th>WALL TYPE</th>
<th>WALL SCHEDULE</th>
<th>AREA DESCRIPTION</th>
<th>SHEATHING</th>
<th>SHEAR WALL</th>
<th>BID DESCRIPTION</th>
<th>FORCE TRANSFER STRAP</th>
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<td>4&quot; x 6&quot; Struct 2x CS20 w/ (2) 8d @ 8&quot; O.C.</td>
<td>APA Grade</td>
<td>Span Rating</td>
<td>Field Service</td>
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NOTES:
1. SHEAR WALLS MOUNT IN WITHE WELD REACTIONS TO THE GENERAL WALL SHEAVING REQUIREMENTS, THE SHEARING WALLS MAY BE INSTALLED HORIZONTALLY OR VERTICALLY. DOUBLE SHAPED WALLS SHALL HAVE PANELS APPLIED TO BOTH FACES.
2. PANEL EDGES SHALL BE LOCATED AT STUDS, BLOCKING, AND AT PLATE OR JOIST SPACE. WHERE SHEATHING IS APPLIED TO BOTH FACES OF WALL, OFFSET PANEL EDGES TO FALL ON DIFFERENT STUDS.
3. STRAIGHT PANEL EDGE WALK AT PANEL JOINTS.
4. ANCHOR RODS SHALL NOT BE LEFT IN UN-DAMAGED ASTM-KA HEADED BOLTS. FIRST AND LAST ANCHORS SHALL BE LOCATED "O" BOX END OF EACH WALL SEGMENT OR ENL WALL HOLLOW.
5. PANEL EDGES SHALL BE LOCATED AT STUDS, BLOCKING, AND AT PLATE OR JOIST SPACE. WHERE SHEATHING IS APPLIED TO BOTH FACES OF WALL, OFFSET PANEL EDGES TO FALL ON DIFFERENT STUDS.
6. SEE HOLDOWN SCHEDULE FOR HOLDOWNS AND BOUNDARY POST SIZES.
7. WOOD PANEL SHEAR WALL SCHEDULE:

WOOD DIAPHRAGM SCHEDULE

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<th>WALL TYPE</th>
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<th>AREA DESCRIPTION</th>
<th>SHEATHING</th>
<th>SHEAR WALL</th>
<th>BID DESCRIPTION</th>
<th>PANEL EDGE BLOCKING</th>
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<td>APA Grade</td>
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<td>Field Service</td>
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6. SEE HOLDOWN SCHEDULE FOR HOLDOWNS AND BOUNDARY POST SIZES.
7. WOOD PANEL SHEAR WALL SCHEDULE:

NOTES:
1. PANELS ARE SHOWN VERTICAL, BUT MAY BE PLACED HORIZONTAL.
2. MIN. EDGE DISTANCE FOR NAIL SHALL BE 1/2".
3. MIN. SHEATHING SHEET SIZE SHALL BE 2" x 4" x 12.".
4. NAILS SHALL NOT BE/articles.
5. NAILS SHALL BE COMMON WIRE TYPE OR EQUIVALENT.

1. SHEAR WALL NAILING DETAIL
2. WALL BLOCKING DETAILS
3. SHEAR WALL TYPES
4. EXTERIOR SHEAR WALLS
5. INTERIOR SHEAR WALLS
6. SHEAR WALL TRANSFER AT FLOORS
7. SHEAR WALL TYPES
8. WALL BLOCKING DETAILS
9. SHEAR WALL NAILING DETAIL
10. SHEAR WALL TRANSFER AT FLOORS
### Holdown and Strap Schedule

<table>
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<tr>
<th>Mark</th>
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<th>Boundary Post Size</th>
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<td>710</td>
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<td>2-24</td>
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<tr>
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<tr>
<td>714</td>
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<td></td>
<td>1-5</td>
<td>1-5</td>
<td>SEE NOTES</td>
</tr>
</tbody>
</table>

**NOTES:**
1. Holdowns are Simpson Strong-Tie or equal.
2. Anchor rods shall be galvanized ASTM F1554 Grade 36 headed bolts or ASTM A36 threaded rods with 2x8 nut and plate washer at bottom.
3. Rod couplers with 125% strength of the rod may be used to extend rods.
4. Boundary posts are of No. 1 UNO.
5. Coordinate with header schedule for verification that the boundary post size and type meets the requirements for king stud number, type, and size.
6. Nail all boundary post ply together with 16d nails at 4" O.C. staggered face to face.

---

### Exterior Walls

1. Holdown Strap Detail

### Interior Walls

2. Typical Holdown Detail at Foundation
STEEL COL SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>LINES</th>
<th>POST BASE</th>
<th>POST CAP</th>
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<tr>
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<td>See Typ Details</td>
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<tr>
<td>2</td>
<td>Diagonal</td>
<td>See Typ Details</td>
<td>See Typ Details</td>
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NOTES:

- CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.

ANCHOR-ROD HOLES IN BASE PLATES

<table>
<thead>
<tr>
<th>ANCHOR-ROD DIA., IN.</th>
<th>STEEL COL. HOLE DIA., IN.</th>
<th>WASHER SIZE, IN.</th>
<th>MIN. WASHER THICKNESS, IN.</th>
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<td>1 1/4</td>
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<td>2 1/2</td>
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STEEL COL BASE PLATE

1 STEEL COL BASE PLATE

2 TYPICAL STEEL COL CAPS

3 GLB TO STEEL COL SIDE CONNECTION
1. DATUM ELEVATION/TOP OF SLAB ELEVATION = EL. 14'. SEE CIVIL FOR ACTUAL ELEVATION.

2. ALL STRIP FOOTINGS ON THIS SHEET ARE 2' 6" WIDE (SF1) AND TOP OF STRIP FOOTING ELEVATION = -6'. UNLESS NOTED OTHERWISE. SEE S1.20 FOR FOOTING SCHEDULE.

3. ALL CONCRETE STEM WALLS THIS SHEET ARE 8" CONC. CIP (8C) UNLESS NOTED OTHERWISE.

4. ALL CONCRETE PIERS ARE 18" SQUARE. SEE TYPICAL DETAIL 4 (S1.20 FOR REINFORCING)

FOUNDATION PLAN

HALF SCALE WHEN PRINTED AT 11x17

CAMAL: SPENARD EAST
VOLUME 3: MULTI-FAMILY BUILDING
ANCHORAGE, ALASKA

SPARK DESIGN, LLC
WWW.SPARKDESIGNLLC.COM
SLAB SHEET NOTES

1. DATUM ELEVATION/TOP OF CONCRETE SLAB ELEVATION = EL. 0'-0".
2. FLOOR SLAB IS 4" CONC SLAB ON GRADE, SEE S1.20 FOR REINFORCING.
3. INSTALL CONTROL/CONSTRUCTION JOINTS AS SHOWN.
4. P# INDICATES A WOOD POST. SEE SCHEDULE ON S1.30
5. C# INDICATES A STEEL COLUMN. SEE SCHEDULE ON S1.44

HALF SCALE WHEN PRINTED AT 11x17
CERTIFICATE OF AUTHORIZATION NO: SPARK DESIGN, LLC #AECL1394
1506 WEST 36th AVENUE ANCHORAGE, AK, 99503
PH 907.561.1011 WWW.PNDENGINEERS.COM
9-8-2020

SLAB PLAN

REVISION SCHEDULE
# DESCRIPTION DATE
SHEET NOTES

1. # Indicates shear wall type. See schedule on Sheet S1.52 for requirements. All exterior walls are Type 4 if undesignated.

2. HD# Indicates shear wall holdown located at the bottom of the shear wall. See schedule for size and anchor requirements.

1st STORY SHEAR WALL PLAN
1. Floor sheathing is 3/4" T&G plywood. Orient panels perpendicular to framing members. See diaphragm schedule for blocking and nailing requirements at panel joints.

2. Top of joist elevation is 11'-4".

3. (J#) indicates floor joist. See joist schedule on sheet S1.30 for series designation.

4. (H#) indicates wood header at top of opening. See header schedule on sheet S1.30.

5. (B#) indicates glu-lam beam. See schedule on sheet S1.30. Top of all wood beams are at bottom of joist unless noted with an "F" indicating beam is flush with top of joist.

6. (P#) indicates wood posts. See schedule on sheet S1.35.

7. (C#) indicates steel columns. See schedule on sheet S1.40.

SHEET NOTES
SHEET NOTES

1. # INDICATES SHEAR WALL TYPE. SEE SCHEDULE ON SHEET S1.31 FOR REQUIREMENTS.

2. HD# INDICATES SHEAR WALL HOLDOWN LOCATED AT THE BOTTOM OF THE SHEAR WALL. SEE SCHEDULE FOR SIZE AND ANCHOR REQUIREMENTS.

3. ST# INDICATES SHEAR WALL STRAP LOCATED AT THE BOTTOM OF THE SHEAR WALL. SEE SCHEDULE FOR SIZE.
1. FLOOR SHEATHING IS 3/4" T&G PLYWOOD. ORIENT PANELS PERPENDICULAR TO FRAMING MEMBERS. SEE DIAPHRAGM SCHEDULE FOR BLOCKING AND NAILING REQUIREMENTS AT PANEL JOINTS.

2. TOP OF PLYWOOD SUBFLOOR IS 22'-10".

3. (J#) INDICATES FLOOR JOIST. SEE JOIST SCHEDULE ON SHEET S1.30 FOR SERIES DESIGNATION.

4. (H#) INDICATES WOOD HEADER AT TOP OF OPENING. SEE HEADER SCHEDULE ON SHEET S1.30.

5. (B#) INDICATES GLU-LAM BEAM. SEE SCHEDULE ON SHEET S1.30. TOP OF ALL WOOD BEAMS ARE AT BOTTOM OF JOIST UNLESS NOTED WITH AN "F" INDICATING BEAM IS FLUSH WITH TOP OF JOIST.

6. (P#) INDICATES WOOD POSTS. SEE SCHEDULE ON SHEET S1.30.

7. (C#) INDICATES STEEL COLUMNS. SEE SCHEDULE ON SHEET S1.40.
SHEET NOTES

1. △ INDICATES SHEAR WALL TYPE. SEE SCHEDULE ON SHEET S1.31 FOR REQUIREMENTS.
   ALL EXTERIOR WALLS ARE TYPE 4 IF UNDESIGNATED.

2. ST# INDICATES SHEAR WALL STRAP LOCATED AT THE BOTTOM OF THE SHEAR WALL. SEE SCHEDULE FOR SIZE.
1. Roof sheathing is 5/8" plywood or OSB. Orient panels perpendicular to framing members. See diaphragm schedule for blocking and nailing requirements at panel joints.

2. Top of roof joist elevation is 34'-6".

3. (J#) indicates floor joist. See joist schedule on sheet S1.30 for series designation.

4. (H#) indicates wood header at top of opening. See header schedule on sheet S1.30.

5. (B#) indicates glu-lam beam. See schedule on sheet S1.30. Top of all wood beams are at bottom of joist unless noted with an "F" indicating beam is flush with top of joist.

6. (P#) indicates wood posts. See schedule on sheet S1.30.

7. (C#) indicates steel columns. See schedule on sheet S1.40.
### Air Separator Schedule

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### Pump Schedule

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### Boiler Schedule

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### Unit Heater Schedule

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### Energy Recovery Ventilation Unit Schedule

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SEQUENCE OF OPERATIONS

DOMESTIC HOT WATER SYSTEM

PUMP SHALL OPERATE CONTINUOUSLY.

BOILERS AND BoILER CIRCULATION PUMPS

PROVIDE ADEQUATE FLOW THROUGHOUT THE SYSTEM AND PROVIDE APPROPRIATE PRESSURE TO THE DISTRIBUTION SYSTEM.

MECHANICAL ROOM COOLING

GENERAL

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, POWER, WIRING, CONDUIT, PIPING, MATERIALS, ACTUATORS, AND ASSOCIATED CONTROL COMPONENTS FOR CONSISTENT AND PROPER OPERATION.

REMARKS

INTEGRAL CONTROLS SHALL OPERATE PUMP TO MAINTAIN SYSTEM PRESSURE AND PROVIDE APPLICABLE CONTROLS AS REQUIRED FOR THE SYSTEM.

GENERAL

PUMP SHALL OPERATE CONTINUOUSLY.

BOILERS AND BoILER CIRCULATION PUMPS

PUMP SHALL OPERATE CONTINUOUSLY.

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REMARKS

INTEGRAL CONTROLS SHALL OPERATE PUMP TO MAINTAIN SYSTEM PRESSURE AND PROVIDE APPLICABLE CONTROLS AS REQUIRED FOR THE SYSTEM.
PRESSURE GAUGES SHALL MEET ASME B40.1 GRADE 1A WITH METAL CASING, BLACK OPERATING PIECE OF EQUIPMENT.

PLUMBING VENT THROUGH ROOFS SHALL BE INSULATED WITH 1" PRE-FORMED FACTORY APPLIED VAPOR BARRIER ALL SERVICE JACKET AND PREMANUFACTURED INSULATION. LOW POINT DRAINS SHALL BE PROVIDED AT ALL LOW POINTS OF THE PIPING SYSTEMS. ISOLATION VALVES SHALL BE BALL VALVES OR BUTTERFLY VALVES. GATE VALVES AND TURNING VANES SHALL BE PROVIDED AT SQUARE DUCTWORK ELBOWS. ACOUSTICAL FLEXIBLE CLOSED CELL ELASTOMERIC PIPING INSULATION, ASTM C534 - TYPE 1 - GRADE 50 OR LESS SMOKE DEVELOPED RATING.

WATER HAMMER ARRESTOR DEVICES SHALL BE INDICATED ON THE DRAWINGS AND PROVIDED ON ALL TERMINAL HEATING UNITS AND WHERE INDICATED ON THE PLANS TO PROVIDE SOUND ATTENUATION.

SEISMIC CONSTRUCTION:

DUCT SIZES INDICATED ON THE DRAWINGS REPRESENT THE INSIDE DIMENSIONS. FOR CORRECT SEISMIC DESIGN, ALL SUPPORTS SHALL BE SECURED TO BUILDING STRUCTURAL ELEMENTS. ALL SUPPORTS SHALL BE SECURED TO BOTH STEEL AND CONCRETE STRUCTURES.

SEISMIC IDENTIFICATION

DIRECT LINE CONNECTIONS INCLUDING BUT NOT LIMITED TO ACROSS GIRDERS, BEAMS, AND FLOOR JOISTS SHALL BE SECURED TO BOTH STEEL AND CONCRETE STRUCTURES.

DUCT PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PROVIDED WITH AN INSULATED AND LIQUID TIGHT FIRESTOPS.

ACOUSTICAL FLEXIBLE CLOSED CELL ELASTOMERIC PIPING INSULATION, ASTM C534 - TYPE 1 - GRADE 50 OR LESS SMOKE DEVELOPED RATING.

PLUMBING, DUCTWORK, AND EQUIPMENT SHALL BE ADEQUATELY SUPPORTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND ASCE 7-10, CHAPTER 13; THE STATE OF ALASKA. EQUIPMENT, PIPING, AND DUCTWORK SYSTEMS SHALL BE SEISMICALLY RESTRAINED IN CONFORMANCE WITH INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, START-UP PROCEDURE. NOTIFY THE ENGINEER OF ANY PROBLEMS ENCOUNTERED DURING THE BALANCING PROCESS. TWO POSITION SHUTOFF VALVES SHALL BE LINE SIZE AND WEIGHT. QUARTER TURN, STRAIGHT OR ANGLED.

COORDINATE COMBINATION FIRE/SMOKE DAMPER'S ELECTRIC MOTOR CONNECTION PROVIDE AUTOMATIC FLOW LIMITING VALVES AT TERMINAL HEATING UNITS AND WHERE INDICATED ON THE PLANS TO PROVIDE SOUND ATTENUATION. AUTOMATIC VENTS SHALL BE PROVIDED AT ALL HIGH POINTS OF PIPING SYSTEM. ACOUSTICAL FLEXIBLE CLOSED CELL ELASTOMERIC PIPING INSULATION, ASTM C534 - TYPE 1 - GRADE 50 OR LESS SMOKE DEVELOPED RATING.

TEST AND START-UP

FIRE PROTECTION

MODULATING VALVES. TWO POSITION SHUTOFF VALVES SHALL BE LINE SIZE AND WEIGHT. QUARTER TURN, STRAIGHT OR ANGLED.

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FIRE PROTECTION

MODULATING VALVES. TWO POSITION SHUTOFF VALVES SHALL BE LINE SIZE AND WEIGHT. QUARTER TURN, STRAIGHT OR ANGLED.

COORDINATE COMBINATION FIRE/SMOKE DAMPER'S ELECTRIC MOTOR CONNECTION PROVIDE AUTOMATIC FLOW LIMITING VALVES AT TERMINAL HEATING UNITS AND WHERE INDICATED ON THE PLANS TO PROVIDE SOUND ATTENUATION. AUTOMATIC VENTS SHALL BE PROVIDED AT ALL HIGH POINTS OF PIPING SYSTEM. ACOUSTICAL FLEXIBLE CLOSED CELL ELASTOMERIC PIPING INSULATION, ASTM C534 - TYPE 1 - GRADE 50 OR LESS SMOKE DEVELOPED RATING.

TEST AND START-UP

FIRE PROTECTION

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SHEET NOTES

1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE INDICATED ON THE FIXTURE SCHEDULE UNLESS OTHERWISE INDICATED.

2. PROVIDE CLEANOUT ON ALL INDIVIDUAL SINK RISERS.

3. STORM DRAIN PIPING SHALL BE SLOPED AT 1/8" PER LINEAR FOOT MINIMUM.

KEY NOTES

1. PROVIDE 1/2" COLD WATER UP TO TRAP PRIMER CONNECTION, SEE 8/M6.01.

2. UP TO WATER CLOSET, WC-1.

3. UP TO WATER CLOSET, WC-2.

4. UP TO LAUNDRY, LG-1.

5. UP TO LAUNDRY, LG-1.

6. UP TO WASHER BOX, WB-1.

7. UP TO WASHER BOX, WB-1 WITH 2" WALL CLEANOUT ON RISER, SEE 9/M6.01.

8. UP TO WASHER BOX, WB-1.

9. UP TO WASHER BOX, WB-1 WITH 2" WALL CLEANOUT ON RISER, SEE 9/M6.01.

10. UP TO LAUNDRY, LG-1.

11. UP TO LAUNDRY, LG-1.

12. UP TO WASHER BOX, WB-1.

13. UP TO WASHER BOX, WB-1.

14. UP TO LAUNDRY, LG-1.

15. UP TO LAUNDRY, LG-1.

16. UP TO WASHER BOX, WB-1.

17. UP TO WASHER BOX, WB-1.

18. UP TO LAUNDRY, LG-1.

19. UP TO LAUNDRY, LG-1.

20. UP TO WASHER BOX, WB-1.

21. UP TO WASHER BOX, WB-1.

22. UP TO LAUNDRY, LG-1.

23. UP TO LAUNDRY, LG-1.

24. UP TO WASHER BOX, WB-1.

25. UP TO WASHER BOX, WB-1.

26. UP TO LAUNDRY, LG-1.

27. UP TO LAUNDRY, LG-1.

28. UP TO WASHER BOX, WB-1.

29. UP TO WASHER BOX, WB-1.

30. UP TO LAUNDRY, LG-1.

31. UP TO LAUNDRY, LG-1.

32. UP TO WASHER BOX, WB-1.

33. UP TO WASHER BOX, WB-1.

34. UP TO LAUNDRY, LG-1.

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40. UP TO WASHER BOX, WB-1.

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42. UP TO LAUNDRY, LG-1.

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44. UP TO WASHER BOX, WB-1.

45. UP TO WASHER BOX, WB-1.

46. UP TO LAUNDRY, LG-1.

47. UP TO LAUNDRY, LG-1.

48. UP TO WASHER BOX, WB-1.

49. UP TO WASHER BOX, WB-1.

50. UP TO LAUNDRY, LG-1.

51. UP TO LAUNDRY, LG-1.

52. UP TO WASHER BOX, WB-1.
FOR ENLARGED TYPICAL STUDIO PLUMBING PLAN, SEE 1M4.04
FOR ENLARGED TYPICAL 1-BED UNIT PLUMBING PLAN, SEE 2M4.04

SHEET NOTES
1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE INDICATED ON THE PLUMBING FIXTURE SCHEDULE UNLESS OTHERWISE INDICATED.
2. PROVIDE CLEANOUT ON ALL INDIVIDUAL SINK RISERS.
3. STORM DRAIN PIPING SHALL BE SLOPED AT UP TO 7/8 PER LINEAR FOOT MINIMUM.

KEY NOTES
1. CONNECT 1/2" COLD AND HOT WATER INTO NEAREST 3/4" OR LARGER COLD AND HOT WATER PIPING.
2. CONNECT 2" VENT INTO NEAREST 2" OR LARGER VENT PIPING.

SCALE: 3/16" = 1'-0"
LEVEL 3 PLUMBING PLAN
**SHEET NOTES**

1. BRANCH PIPING TO RESIDENTIAL TERMINAL HEATING UNITS OF 2 GPM OR LESS SHALL BE 3/4" UNLESS OTHERWISE INDICATED ON PLANS OR SCHEDULES.

2. PROVIDE PIPE GUIDES PER EXPANSION LOOP MANUFACTURER'S RECOMMENDATIONS.

**KEY NOTES**

1. 3/4" HEATING GLYCOL SUPPLY AND RETURN MANUFACTURER'S SEQUENCE SIMILAR TO M6.02.

2. PROVIDE 1/2" HEATING GLYCOL SUPPLY AND RETURN MANUFACTURER'S SEQUENCE SIMILAR TO M6.02.

**LEVEL 1 HEATING PLAN**

**SCALE:** 3/16" = 1'-0"
SHEET NOTES
1. BRANCH DUCTWORK TO INDIVIDUAL DIFFUSERS SHALL EQUAL THE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED.
2. COORDINATE FINAL DIFFUSER AND GRILLE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, ELECTRICAL LIGHTING PLANS AND SPRINKLER PLANS.

KEY NOTES
1. SOUNDLINED 16/12 RETURN AIR DUCT ABOVE CEILING.
2. FOR ENLARGED TYPICAL 1-BED UNIT VENTILATION PLAN, SEE 4 M4.02.
3. FOR ADDITIONAL WORK IN THIS AREA, SEE 1 M4.01.
4. FOR TYPICAL INLINE EXHAUST FAN DETAIL, SEE 2 M6.03.
5. EF-1, EF-2, EF-3, EF-4, EF-5, EF-6, EF-7, EF-8.
8. RA, RB, RC.
9. SB.

SCALE: 3/16" = 1'-0"
SHEET NOTES

1. Branch pipes to individual, terminal, ventilation units of 3 GPM or less shall be 3/4" unless otherwise indicated on plans or schedules.

2. Branch ductwork to individual diffusers shall equal the diffuser neck size unless otherwise indicated.

3. Coordinate final diffuser and grille locations with the architectural reflected ceiling plans, electrical lighting plans and sprinkler plans.

KEY NOTES

1. 3/4" WRAPPED ELECTRIC SUPPLY INSULATION

2. 3/4" SEAMLESS UP/DOWN AIR SUPPLY/DRAIN AIR DUCTS, 3/4" SEAMLESS SUPPLY/DRAIN AIR DUCTS, AND 3/4" SEAMLESS SUPPLY/DRAIN AIR DUCTS 5/8" THICK INSULATION REQUIRED

3. When current unit heating, 3/4" OFF DRAINAGE FROM PRIMARY PIPING TO ROUTE BELOW FLOOR (TYP.

SCALE: 3/16" = 1'-0"
**SHEET NOTES**

1. Branch piping to individual terminal heating units of 3 GPM or less shall be 3/4" unless otherwise indicated on plans or schedules.

2. Branch ductwork to individual diffusers shall equal the diffuser neck size unless otherwise indicated.

3. Coordinate final diffuser and grille locations with the architect, electrical, and sprinkler plans.

**KEY NOTES**

1. 1 1/2" Heating Glycol Supply and Return up to ERV-1.

2. Soundlined 20"Ø Supply and Return Air Up, Soundlined 18"Ø Supply and Return Air Down.

3. Mount Cabinet Unit Heater, CUH-5, 12" off finished floor from bottom of unit.

4. Valve sequence similar to 5/M6.02.

5. Coordinate final diffuser and grille locations with the architectural reflected ceiling plans, electrical lighting plans, and sprinkler plans.

6. 12" Ø Refinished Duct Box Up, 18" Ø Refinished Duct Box Down.

7. Wall Cap with Backdraft Damper (Typ.).
For roof drain detail, see (typ.) 4" M6.01.

For roof hatch, see architectural RD-1 OD-1 RD-1 OD-1 RD-1 OD-1 RD-1 OD-1.

10' radius 4" VTR.

ERV-1 M5.05.

Scale: 3/16" = 1'-0"
1. Branch piping to individual plumbing fixtures shall equal the size indicated on the plumbing fixture schedule unless otherwise indicated.

2. Provide cleanout on all individual sink risers.

3. Install washer box behind washer. Coordinate washer/dryer arrangement with architectural interior elevations.

4. Provide access door to valves located in GWB ceiling. Coordinate with electrical such that the electrical panel is not located below piping.

PROVIDE 1/2" COLD WATER LINE TO RECESSED WATER CONNECTION BOX, RB-1, TO SERVE REFRIGERATOR. PROVIDE CONNECTION BETWEEN RB-1 AND APPLIANCE PER APPLIANCE MANUFACTURER'S RECOMMENDATIONS.

PROVIDE WATER LINE TO DISHWASHER PER MANUFACTURER'S RECOMMENDATION. PROVIDE AIR GAP FITTING AT ADJACENT SINK FOR DISHWASHER DRAIN. CONNECT PER EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATION.

ROUTE 1/2" COLD WATER AND 1/2" HOT WATER DOWN WALL AND THROUGH CABINETRY OR PONY WALL TO SINK. DO NOT ROUTE PIPING IN STAIRWELL WALL. SHOWN OFFSET FOR CLARITY.
1. BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL BE ACCORDING TO THE PLUMBING FIXTURE SCHEDULE SHOWN ON SHEET LEGEND.

2. PROVIDE CLEANOUT ON ALL INDIVIDUAL SINK RISERS.

3. BIO-TOILET VIEWER HOODS BEHIND VIEWER, ESTABLISH STANDARDS PER RECOMMENDATION OF ACP.

4. PROVIDE ACCESS DOOR TO VALVES LOCATED IN CEILING OR WALL SUCH THAT THE ELECTRICAL PANEL IS NOT LOCATED BELOW PIPING.

5. PROVIDE 1/2" COLD WATER LINE TO RECESSED WATER CONNECTION BOX, RB-1, TO SERVE REFRIGERATOR. PROVIDE CONNECTION BETWEEN RB-1 AND APPLIANCE PER APPLIANCE MANUFACTURER'S RECOMMENDATIONS.

6. PROVIDE AIR GAP FITTING AT ADJACENT SINK FOR DISHWASHER DRAIN. CONNECT PER EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATION.

7. ROUTE 1/2" COLD WATER AND 1/2" HOT WATER DOWN WALL AND THROUGH CABINETRY OR PONY WALL TO SINK. DO NOT ROUTE PIPING IN STAIRWELL WALL. SHOWN OFFSET FOR CLARITY.

TYPICAL LEVEL 2
STUDIO PLUMBING PLANS

TYPICAL LEVEL 2
1-BED UNIT PLUMBING PLANS
Sheet Notes:

1. Branch pipes to individual plumbing fixtures shall be sized in accordance with the Plumbing Fixtures Schedule.
2. Provide access to all interior wall boxes.

Key Notes:

1. Provide access door to valves located in ceiling or wall. Coordinate with electrical such that the electrical panel is not located below piping.
2. Provide 1/2" cold water line to recessed water connection box, RB-1, to serve refrigerator. Provide connection between RB-1 and appliance per appliance manufacturer’s recommendations.
3. Provide water line to dishwasher per manufacturer’s recommendations. Provide air gap fitting at adjacent sink for dishwasher drain. Connect per equipment manufacturer’s requirements. Coordinate with architectural drawings for location.
4. Route 1/2" cold water and 1/2" hot water down wall and through cabinetry or pony wall to sink. Do not route piping in stairwell. Shown offset for clarity.

Typical Level 3

1. Branch piping to individual plumbing fixtures shall equal the size indicated on the plumbing fixture schedule unless otherwise indicated.
2. Provide cleanout on all individual sink risers.
3. Install washer box behind washer. Coordinate washer/dryer arrangement with architectural interior elevations.
4. Provide access door to valves located in ceiling or wall. Coordinate with electrical such that the electrical panel is not located below piping.
5. Provide 1/2" cold water line to recessed water connection box, RB-1, to serve refrigerator. Provide connection between RB-1 and appliance per appliance manufacturer’s recommendations.
6. Provide water line to dishwasher per manufacturer’s recommendations. Provide air gap fitting at adjacent sink for dishwasher drain. Connect per equipment manufacturer’s requirements. Coordinate with architectural drawings for location.
7. Route 1/2" cold water and 1/2" hot water down wall and through cabinetry or pony wall to sink. Do not route piping in stairwell. Shown offset for clarity.
1. Branch piping to individual plumbing fixtures shall equal the size indicated on the plumbing fixture schedule unless otherwise indicated.

2. Provide cleanout on all individual sink risers.
1. Branch piping to individual plumbing fixtures shall equal the size indicated on the plumbing fixture schedule unless otherwise indicated.

2. Provide cleanout on all individual sink risers.
**Protective Shield Plate**

4 foot minimum ventilation pipe space. See architectural seal penetration. Exterior wall, see architectural seal penetration.

**Exhaust Fan**

Exhaust fan, with radiation damper where required. Exterior wall, see architectural seal penetration.

**Exhaust Inline Fan**

Refer to appliance manufacturer's instructions for additional requirements.

**Exhaust Duct Box**

Coordinate box installation location with dryer exhaust outlet location.

**Boiler Flue**

Suspend from structure. Exterior wall, see architectural seal penetration.
ELECTRICAL SPECIFICATIONS

10. SECTION 30 10: ACCESS CONTROL

1. General. The access control system shall be designed for the security of the facility. The access control system shall be interconnected to the fire alarm system and security systems and shall be coordinated with HVAC, communication, and security systems. The access control system shall be capable of being monitored and controlled remotely from a central station. The access control system shall be designed to provide secure access to all areas of the building. The access control system shall be compatible with the existing security systems and shall be capable of being integrated with the building automation system. The access control system shall be designed to provide for the protection of life and property. The access control system shall be capable of being monitored and controlled remotely from a central station. The access control system shall be designed to provide secure access to all areas of the building. 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GENERAL NOTES:
1. MINIMUM BURIAL DEPTH OF LIGHTING & POWER SYSTEM CONDUITS SHALL BE 24" MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. REFERENCE ALSO COIL, EMERGENCY AND SPECIAL SYSTEMS FOR ADDITIONAL TRENCHING AND BACKFILL REQUIREMENTS.
2. ALL EXTERIOR FEEDER AND BRANCH CIRCUITS SHALL UTILIZE CONDUCTORS WITH TYPE SW900 NYLON INSULATION.
3. MINIMUM BURIAL DEPTH OF TELECOMMUNICATIONS SYSTEM CONDUITS SHALL BE 36" MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE. REFERENCE ALSO COIL, EMERGENCY AND SPECIAL SYSTEMS FOR ADDITIONAL TRENCHING AND BACKFILL REQUIREMENTS.

SHEET NOTES:
1. PROPOSED LOCATION FOR UTILITY PADMOUNT TRANSFORMER.
2. PROVIDE TWO 4" PVC CONDUITS FOR COMMERCIAL TELEPHONE AND TELECOMMUNICATION SERVICES AND ONE 2" PVC CONDUIT FOR COMMERCIAL TELEVISION SERVICES TO EACH BUILDING AS INDICATED AS PER CONTRACT (1 PER BUILDING), COORDINATE LOCATION WITH APPROPRIATE UTILITY. CAP AND PROVIDE LOCATIONS FOR FUTURE USE, STUB UP CONDUCTORS BEYOND TELECOMMUNICATION ENCLOSURES IN EACH ELECTRICAL ROOM AS INDICATED ON FLOOR PLANS.
3. CONTROL SITE LIGHTING CIRCUIT H1-8 VIA PHOTOCELL, FIELD LOCATE. SEE FIRST FLOOR LIGHTING PLAN FOR ADDITIONAL FIXTURES ON CIRCUIT H1-8.
4. ADDITIVE ALTERNATE B: MONUMENT SIGN. PROVIDE 1" RIGID CONDUIT TO WEATHERPROOF DISCONNECT AND JUNCTION BOX FOR MONUMENT SIGN. CONTROL VIA PHOTOCELL, FIELD LOCATE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL & COIL PRIOR TO ROUGH IN.

EXTERIOR ILLUMINATION SUMMARY:

<table>
<thead>
<tr>
<th>MINIMUM BURIAL DEPTH (IN.)</th>
<th>COLUMN FOR HARDWARE (IN.)</th>
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<tbody>
<tr>
<td>MINIMUM ILLUMINATION (Lx)</td>
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<tr>
<td>ILLUMINATION FOR ENTRANCE (Lx)</td>
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<tr>
<td>ILLUMINATION FOR LIGHTING (Lx)</td>
<td>7.5</td>
</tr>
<tr>
<td>ILLUMINATION FOR VENTS (Lx)</td>
<td>7.5</td>
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</tbody>
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REASONS TO CONFORM:
1. SYSTEMS AS DESIGNED TO REMOVE HAZARDS TO PUBLIC SAFETY AND PROTECT PROPRIETORS.
2. SYSTEMS DESIGNED TO MEET CURRENT REQUIREMENTS OF STATE AND LOCAL CODES.

SPECIAL NOTES:

- SHEET 1 E1.01
- ELECTRICAL SITE PLAN
- SCALE: 1" = 10'-0"
GENERAL DETAIL NOTES

1. CONTROLLER DETAIL IS DIAGRAMMATIC. CONTRACTOR TO PROVIDE CONTROL SYSTEM SUITABLE TO PROVIDE HEADBOLT HEATER CIRCUITS AS INDICATED ON DRAWINGS. PROVIDE CONTACTOR & CONNECTIONS AS REQUIRED. A SPLIT BUS PANELBOARD WITH CONTROLS IS AN ACCEPTABLE CONTROL SCHEME.

2. PROVIDE LABELING AT CONTACTOR TO READ 'HEADBOLT HEATER CONTACTOR'.

DETAIL NOTES

1. PROVIDE ADJUSTABLE THERMOSTATIC CONTROL, COORDINATE WITH OWNER FOR DESIRED ACTIVATION TEMPERATURE. FIELD LOCATE.

2. PROVIDE CYCLE TIMER CONTROL TO BE APPLIED UPON THERMOSTATIC ACTIVATION. COORDINATE WITH OWNER FOR DESIRED CYCLE LENGTH PRIOR TO ORDERING. FIELD LOCATE.
GENERAL NOTES
1. CONNECT EXIT SIGNS TO UNSWITCHED LEG OF INVERTER EMERGENCY LIGHTING CIRCUIT INDICATED.

FIELD LOCATE ELEVATOR PIT LIGHT SWITCH & FIXTURES TO ACCESSIBLE LOCATIONS AND TO AVOID MAJOR ELEVATOR & STRUCTURAL MEMBERS.

2. EXTERIOR FIXTURES ON CIRCUIT H1-8 ARE TO BE CONTROLLED BY PHOTOCELL. SEE SITE PLAN FOR ADDITIONAL EXTERIOR FIXTURES ON CIRCUIT.

SHEET NOTES
1. FIELD LOCATE LIGHTING FIXTURES & SWITCHES TO ACCESSIBLE LOCATIONS PRIOR TO ASSEMBLING FIXTURES & STRUCTURAL MEMBERS.

2. EXTERIOR FIXTURES ON CIRCUIT H1-8 ARE TO BE CONTROLLED BY PHOTOCELL. SEE SITE PLAN FOR ADDITIONAL EXTERIOR FIXTURES ON CIRCUIT.
GENERAL NOTES

1. CONNECT EXIT SIGNS TO UNSWITCHED LEG OF INVERTER EMERGENCY LIGHTING CIRCUIT INDICATED.

2. REFUSE ROOM LIGHT SWITCHshall control light component of fan/light combination unit specified by mechanical. Fan component controlled by occupancy sensor.

SHEET NOTES

1. BEDROOM LIGHT SWITCH shall control light component of fan/light combination unit specified by mechanical. Fan component controlled by occupancy sensor.

2. Wanut type # fixture note - Y-P- to bottom.

SCALE: 3/16" = 1'-0"
GENERAL NOTES

1. Connect Exit Signs to Unswitched Leg of Inverter Emergency Lighting Circuit Required.

SHEET NOTES

1. Provide local switch to override recessed downlights in elevator control area to 100% on. Provide labeling to read "Elevator Control Area Light Switch."

2. Mount Type 'M1' fixture noted +7'-9" to bottom.


4. Provide Type B Emergency Lights with 90 Minute Rating per Local Code Requirements.

5. Provide Recessed Downlights per Schedule. Provide Type B Emergency Lights with 90 Minute Rating per Local Code Requirements.

6. T3 ALASKA, LLC AECL #: 1625
CIHA: SPENARD EAST
ANCHORAGE, ALASKA
VOLUME 3: MULTI-FAMILY BUILDING

THIRD FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"
1. PROVIDE POWER TO ACCESS CONTROL. ALL POWER CONTROLS TO BE COORDINATED WITH ARCHITECTURAL AND SUPPLIED EQUIPMENT FOR EXACT CONNECTION LOCATIONS & REQUIREMENTS.
2. PROVIDE POWER TO ACCESS CONTROL. ALL ACCESS CONTROLS TO BE COORDINATED WITH ARCHITECTURAL AND SUPPLIED EQUIPMENT FOR EXACT CONNECTION LOCATIONS & REQUIREMENTS.
3. PROVIDE POWER AND Connect To MECHANICAL ROOM EXITS FOR BOILER EMERGENCY SHUTOFF. CONNECT TO BOILER SHUNT TRIP BREAKERS & COORDINATE WITH architectural AND SUPPLIED EQUIPMENT FOR EXACT CONNECTION LOCATIONS & REQUIREMENTS.
4. PROVIDE POWER TO ACCESS CONTROL. ALL ACCESS CONTROLS TO BE CIRCUITED TO ALL 120V, 20A RECEPTACLES IN UNITS SHALL BE LISTED TAMPER RESISTANT TYPE.
5. PROVIDE POWER TO AUTOMATIC DOOR CONTROLS. ALL DOOR CONTROLS TO BE CONNECTED TO MECHANICAL DESIGN. EXTEND HEAT TRACE TO THREADED "Y" FITTING PROVIDED UNDER MECHANICAL DESIGN. EXTEND HEAT TRACE TO FULL LP OF SCUPPER AND CAP PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE POWER TO ACCESS CONTROL. ALL ACCESS CONTROLS TO BE COORDINATED WITH ARCHITECTURAL AND SUPPLIED EQUIPMENT FOR EXACT CONNECTION LOCATIONS & REQUIREMENTS.
7. PROVIDE POWER TO ACCESS CONTROL. ALL ACCESS CONTROLS TO BE CIRCUITED TO ALL 120V, 20A RECEPTACLES IN UNITS SHALL BE LISTED TAMPER RESISTANT TYPE.

GENERAL NOTES

1. SHEET NOTES

2. ALL 208V, 250V RECEPTACLES UNITS SHALL BE LETER TAMPER RESISTANT TYPE.

POWER & SIGNAL LAYOUTS & CIRCUITRY

1. PANEL H1

2. PANEL MDP

3. PANEL CP

4. PANEL STUDIO B

5. PANEL CP-1A

6. PANEL VESTIBULE

7. PANEL H1-33

8. PANEL H1-31

9. PANEL E3.01
GENERAL NOTES
1. PROVIDE GFCI PROTECTION FOR REFRIGERATOR RECEPTACLE.
2. SYSTEM DETECTORS AND STROBES/HORN STROBES, TYPICAL.
3. INSTALL RECEPTACLE WITH DUAL INTEGRAL USB OUTLETS.
4. POWER AND PUSH BUTTON FOR AUTOMATIC DOOR CONTROLS. COORDINATE WITH ARCHITECTURAL AND SUPPLIED EQUIPMENT FOR EXACT CONNECTION LOCATIONS & REQUIREMENTS.
5. INSTALL RANGE HOOD SWITCH AND DUPLEX RECEPTACLE TOGETHER IN DOUBLE GANG BOX ABOVE COUNTER.
6. COORDINATE EXACT PANELBOARD LOCATION WITH MECHANICAL TO AVOID DUCTING ABOVE.
7. CABINET UNIT HEATER IS TO BE INSTALLED IN UNITS 101, 201, 208, 209, 301, 308, & 309 ONLY PER MECHANICAL.
8. PROVIDE STROBE NOTED IN UNITS 103, 202, 203, 204, 302, & 303 ONLY.

EQUIPMENT SCHEDULE

1. RANGE: 8,900W, 208V, 1Ø. 1"C, 4#8.
2. RANGE HOOD RH-1: 1.4A, 120V, 1Ø. COORDINATE REMOTE RANGE HOOD CONNECTION WITH ARCHITECTURAL AND MECHANICAL PRIOR TO ROUGH IN.
3. WASHER: 1,500W, 120V, 1Ø.
5. DISHWASHER: 6.7A, 120V, 1Ø.
6. DRYER BOOSTER FAN DF-1: 0.54A, 120V, 1Ø.
7. CUH-4: FR HP, 120V, 1Ø.
8. CUH-5: FR HP, 120V, 1Ø.

SHEET NOTES

1. PROVIDE SPOILPROOF FOR REFRIGERATOR RECEPTACLE.
2. SYSTEM DETECTORS AND STROBES/HORN STROBES, TYPICAL.
3. INSTALL RECEPTACLE WITH DUAL INTEGRAL USB OUTLETS.
4. POWER AND PUSH BUTTON FOR AUTOMATIC DOOR CONTROLS.
5. INSTALL RANGE HOOD SWITCH AND DUPLEX RECEPTACLE TOGETHER IN DOUBLE GANG BOX ABOVE COUNTER.
6. COORDINATE EXACT PANELBOARD LOCATION WITH MECHANICAL TO AVOID DUCTING ABOVE.
**SHEET NOTES**

1. **ELEVATOR**: 65A, 208V, 3Ø, MDP-2,4,6. DISCONNECT AND CONNECTION TO ELEVATOR CONTROLLER. SEE SINGLE LINE DIAGRAM AND FEEDER SCHEDULE FOR FEEDER & CONDUIT SIZE.

2. **DEDICATED 20A CIRCUIT AND FUSED DISCONNECT CAPABLE OF BEING LOCKED IN THE OPEN POSITION FOR CONNECTION OF CAR LIGHTS, CAR TOP RECEPTACLE, AUXILIARY LIGHTING POWER SOURCE, AND CAR VENTILATION. COORDINATE CONNECTION LOCATION WITH ELEVATOR EQUIPMENT PRIOR TO ROUGH IN.

3. **LOCKABLE 125V, 15A FUSED DISCONNECT FOR REMOTE ELEVATOR MONITORING (REM). COORDINATE CONNECTION LOCATION WITH ELEVATOR EQUIPMENT PRIOR TO ROUGH IN.

4. **POWER AND PUSH BUTTON FOR AUTOMATIC DOOR CONTROLS. COORDINATE WITH ARCHITECTURAL AND SUPPLIED EQUIPMENT FOR EXACT CONNECTION LOCATIONS AND REQUIREMENTS.**

5. **PROVIDE TELEPHONE/DATA CONNECTION FOR ELEVATOR CONTROL.**

6. POWER AND SIGNALS FOR AUTOMATIC ELEVATOR CONTROL, ELEVATOR OCCUPANCY, ALARM, AND SAFETY SYSTEMS. COORDINATE CONNECTION LOCATION WITH ELEVATOR EQUIPMENT PRIOR TO ROUGH IN.

**SCALE:** 3/16" = 1'-0"
1. RISER SHOWN IS A CONCEPTUAL SCHEMATIC DIAGRAM ONLY. SUPPLIER TO PROVIDE AN INSTALLATION SHOP DRAWING & SUBMITTAL FOR APPROVAL DETAILING EQUIPMENT LAYOUT WITH WIRING DIAGRAMS AND SHOWING ALL NECESSARY EQUIPMENT, CABLING, & ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

2. SUPPLIER TO PROVIDE SYSTEM SET-UP, PROGRAMMING, TESTING, COMMISSIONING, & TRAINING SERVICES AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO PROVIDE FOR A FULLY OPERATIONAL SYSTEM.

3. PROVIDE ELECTRICAL CONNECTIONS AND FUNCTIONALITY TO ACTIVATE ENTRY DOORS STRIKE RELEASE FUNCTIONS FROM ENTRY PANELS AND TENANT STATIONS.

4. SYSTEM DESIGN BASED ON AIPHONE GT SERIES, WITH 1 MASTER STATION (ENTRANCE PANEL) AND 21 TENANT STATIONS.

- 10-KEY AUDIO ENTRANCE PANEL: AIPHONE #GTA-DESB
- DISTRIBUTION POINT WIRING TERMINAL STRIP: AIPHONE #GTW-DP
- AUDIO BUS CONTROL UNIT: AIPHONE #GT-BC
- AUDIO OVER VOICE TENANT STATION: AIPHONE #GT-1A

5. COMM EQUIPMENT SCHEDULE

- COMM RISER EQUIPMENT

6. COMM EQUIPMENT SCHEDULE

- COMM RISER EQUIPMENT

- COMM EQUIPMENT SCHEDULE

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NOTE: TENANT CONNECTIONS SHALL BE DAIKY CHAINED TO NEXT OUTLET.

- ENTRY INTERCOM & COMMUNICATIONS RISER DIAGRAMS

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THOMAS C. ALLEN
EE-9877
09/02/20
PHOTOVOLTAIC RISER DIAGRAM

PV SYSTEM GENERAL NOTES

1. TOTAL OF 870 MODULES, SEE SCHEDULE - LAYOUT AS SHOWN IN LAYOUT. THE CONTRACTOR SHALL PROVIDE A PINNACLE LAYOUT AND CONNECTION DOCUMENTATION MANUFACTURER'S REQUIREMENTS. BRANCH FEEDER CONNECTIONS SHALL ALWAYS BE麹一 IN THE MID-SECTIONS OF THE PV CIRCUIT TO MINIMIZE BALANCE DISTORTIONS.

2. PV SYSTEM SHALL BE TYPICAL, SEE PANEL REQUIREMENTS.

3. PROVIDE AND COMPLY WITH ALL NEC REQUIREMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   a. LABEL ALL SYSTEMS, 120, 208, 240, 208.

PV SYSTEM GENERAL NOTES

6. HARDWARE AS SHOWN IS REQUIRED IN REFERENCE TO MANUFACTURER'S INSTRUCTIONS. STEEL TIE BARS连接 ALUMINUM TO EQUIPMENT SHELVING TO IMPROVE ELECTRICAL PERFORMANCE.

7. ALL CONNECTIONS CONNECTED TO THE PV SYSTEM AND BACK TO THE MDP SHALL BE RATED FOR BACK-FEEDING.

LABELING PER NEC 690.13, 690.18, &690.51

3.a. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE PV SYSTEM AND BACK TO THE MDP

THE FOLLOWING:

GROUNDING.

REQUIREMENTS OF NEC 690.35. GROUNDING CONNECTION AS SHOWN IS FOR EQUIPMENT PV SYSTEM SHALL MEET UL 1741/IEEE 1574 AND NEC REQUIREMENTS.

REFERENCE FEEDER SCHEDULE, E5.01.

SEE E5.01 FOR ELECTRICAL RISER DIAGRAM.

THE ENPHASE MICROINVERTER HAS INTEGRATED GROUND AND NO GEC IS REQUIRED.

RAPID SHUTDOWN AS REQUIRED BY 690.12 IS PROVIDED AS AN INTEGRAL PART OF THE TOTAL OF 67 PV MODULES, (20.1kW SYSTEM),  LAYOUT AS SHOWN IS GENERIC THE
## DRILLING FACILITY

### SINGLE UNIT WORKSPACE ELECTRICAL LOAD CALCULATION

<table>
<thead>
<tr>
<th>LINE DESCRIPTION</th>
<th>UNITS</th>
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</table>

**TOTAL ELECTRICAL LOAD**

- 21,000 VA

**TOTAL ELECTRICAL LOAD PER UNIT**

- 5,250 VA

**TOTAL ELECTRICAL LOAD PER FLOOR**

- 24,750 VA

**TOTAL ELECTRICAL LOAD PER BUILDING**

- 4,450 VA

### TYPICAL 1-BEDROOM PANEL A

- **ROOMS DESCRIBED**
  - 1. **SPEAKER**
  - 2. **MAILボックス**
  - 3. **HEATER**
  - 4. **WATER HEATER**
  - 5. **SPACE**

- **ELECTRICAL LOAD**
  - 2.400 VA

### TYPICAL EFFICIENCY UNIT PANEL B

- **ROOMS DESCRIBED**
  - 1. **SPEAKER**
  - 2. **MAILボックス**
  - 3. **HEATER**
  - 4. **WATER HEATER**
  - 5. **SPACE**

- **ELECTRICAL LOAD**
  - 1.200 VA