PORT OF TACOMA

PIER 4 PHASE 2
RECONFIGURATION (MARINE BUILDING)
PROJECT NO. - 091251
CONTRACT NO. - 070136

PORT COMMISSIONERS:
CONSTANCE T. BACON
DON MEYER
DONALD C. JOHNSON
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CLARE PETRICH

PORT STAFF:
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Chief Executive Officer

DAKOTA CHAMBERLAIN, PE
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Development Officer

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Director of Engineering

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Senior Project Manager
Chapter 7: Administration

310 General

310.4 Referenced Codes

Codes adopted by ordinance - (Note: All codes are adopted by the State of Washington and the City of Tacoma. See: http://www.cityoftacoma.org/)

Tacoma Municipal Code and Tacoma Amendments

Building 2016 International Building Code

Electrical 2016 National Electrical Code

Mechanical 2016 International Mechanical Code

Plumbing 2016 Uniform Plumbing Code

Fire Prevention 2016 International Fire Code

Accessibility 2009 Americans with Disabilities Act (ADA) Standards


table 108 Allowable Height and Building Area

Grp A - Commercial, Type II-Laniel

Grp C - General Commercial

Grp D - Special Hazard

Grp E - Light Manufacturing

Grp F - General Industrial

Grp G - Special Hazard

Grp H - Light Manufacturing

Grp J - General Industrial

Grp K - Special Hazard

Grp L - Light Manufacturing

Grp M - General Industrial

Table 108.2 camper height and building

Grp A - Commercial, Type II-Laniel

Grp C - General Commercial

Grp D - Special Hazard

Grp E - Light Manufacturing

Grp F - General Industrial

Grp G - Special Hazard

Grp H - Light Manufacturing

Grp J - General Industrial

Grp K - Special Hazard

Grp L - Light Manufacturing

Grp M - General Industrial

Table 108.5 Building area calculations

Grp A - Commercial, Type II-Laniel

Grp C - General Commercial

Grp D - Special Hazard

Grp E - Light Manufacturing

Grp F - General Industrial

Grp G - Special Hazard

Grp H - Light Manufacturing

Grp J - General Industrial

Grp K - Special Hazard

Grp L - Light Manufacturing

Grp M - General Industrial

Chapter 8: Special Design Requirements Based on Use and Occupancy

801 Building Group B office, professional or service type occupancy. All offices on the first floor and on the entire second floor fall into this category.

802 Definitions

802.2 Definitions

Chapter 8, Definitions of "Story", "First floor" and "Basement" - See Section 802.3, "First Floor" and "Basement".

802.3 "First Floor" and "Basement"

First floor - The lowest floor of a building that has access to the exterior of the building.

Basement - The lowest floor of a building that is not accessible to the exterior of the building.

Chapter 8, Definitions of "Building Height" - "The vertical distance from grade plane to the average height of the highest roof surface.

Chapter 8, Definitions of "Development Platform" - An unencumbered, elevated platform used exclusively for the mechanical systems of industrial process equipment, including the associated elevated walkways, stairs, alternating tread stairs and guardrails necessary to access the platform (see Section 802.11).

Building group b

Office, professional or service type occupancy. All offices on the first floor and on the entire second floor fall into this category.

General Building Code

Chapter 8, Definitions of "Story", "First floor" and "Basement" - See Section 802.3, "First Floor" and "Basement".

Chapter 8, Definitions of "Building Height" - "The vertical distance from grade plane to the average height of the highest roof surface.

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Chapter 8, Definitions of "Development Platform" - An unencumbered, elevated platform used exclusively for the mechanical systems of industrial process equipment, including the associated elevated walkways, stairs, alternating tread stairs and guardrails necessary to access the platform (see Section 802.11).
Chapter 7: FIRE-RESISTANCE-RESISTANT CONSTRUCTION

7.4. Fire Resistance Rating of Structural Members

7.4.1. The fire resistance ratings of structural members and assemblies shall comply with the requirements of this section. Fire resistance requirements are detailed in Table 7.4.1 and 7.4.2.

7.4.2. The fire resistance rating of a structural member shall be determined based on the fire resistance rating of the component part of the structure. The fire resistance rating of a structural member shall be determined based on the fire resistance rating of the component part of the structure.

7.5. Building Elements

7.5.1. A building element shall be constructed to provide a fire-resistant barrier between floors. The element shall be constructed to provide a fire-resistive barrier between floors, between top story and roof, and between roof and attic. Fire-resistive building shall be installed as specified in Sections 7.5.2 and 7.5.3.

7.5.2. For this project, the building shall be provided with fire-resistive building as specified in Sections 7.5.2 and 7.5.3.

7.6. Fire Resistant Building Elements

7.6.1. A building element shall be constructed to provide a fire-resistant barrier between floors. The element shall be constructed to provide a fire-resistive barrier between floors, between top story and roof, and between roof and attic. Fire-resistive building shall be installed as specified in Sections 7.5.2 and 7.5.3.

7.7. Thermal and Sound Insulating Assemblies

7.7.1. Insulating materials, including fiberglass and carpet, shall be installed in accordance with the requirements of this section. Insulating materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.8. - Facade Materials

7.8.1. Facade materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.9. - Interior Finishes

7.9.1. Interior finishes shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.10. - Fire Protection Systems

7.10.1. Fire protection systems shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.11. - Smoke Control Systems

7.11.1. Smoke control systems shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.12. - Life Safety Systems

7.12.1. Life safety systems shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.13. - Emergency Egress Systems

7.13.1. Emergency egress systems shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.14. - Fire Safety-related Assemblies

7.14.1. Fire safety-related assemblies shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.

7.15. - Fire Safety-related Systems

7.15.1. Fire safety-related systems shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section. All materials shall be installed in accordance with the requirements of this section.
TABLE 10.11 - Curb Access Travel Distance

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Curb Access Points</th>
<th>Minimum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>50 ft</td>
</tr>
<tr>
<td>B</td>
<td>15</td>
<td>75 ft</td>
</tr>
</tbody>
</table>

TABLE 10.12 - Curb Access Travel Distance

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<th>Location</th>
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<tbody>
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</tr>
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<td>B</td>
<td>15</td>
<td>75 ft</td>
</tr>
</tbody>
</table>

(Continued)
ROOF PLAN GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES IN G SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. ROOF PENETRATIONS: ALL ROOF PENETRATIONS SHALL BE LOCATED AWAY FROM ROOF VALLEYS. ALL ROOF PENETRATIONS SHALL BE PERMANENTLY FLUSHED TO DIRECT PREVENTION TO GUTTERS AND EQUIPMENT SHALL MATCH LOCAL CODE AND NATIONAL ENGINEERING MANUFACTURER PUBLISHED STANDARDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ITEMS NOT DETAIL.

C. POSITIVE ROOF SLOPE: ALL ROOF CONSTRUCTION SHALL PROVIDE A SLOPE SUFFICIENT TO DRAIN IN COMPLIANCE WITH LOCAL CODE AND NEAREST ELEVATION TO BUILDING FOUNDATION. ROOF SLOPES MUST ADHERE TO ROOF PLAN AND SURFACE SLOPE OF INDIRECT METHOD (TYP. ALL CROCKETS MADE OF BUILT UP INSULATION SLOPE AT 1/12 SURFACE SLOPE) UNLESS OTHERWISE SPECIFIED.

D. SECTION REFERENCES: SEE ROOF PLAN FOR ADDITIONAL BUILDING AND WALL SECTION REFERENCES.

E. ROOF TYPES AND DETAILS: SEE A306 SHEETS.

F. DOWNSPOUTS: SEE ROOF PLAN AND EXTERIOR ELEVATIONS FOR EXACT DIMENSIONS. DOWNSPOUTS SHALL BE 4" PVC SCHEDULE 40. COORDINATE WITH LOCAL CODES AND SUBCONTRACTOR TO ASSURE EXACT ALIGNMENT WITH STORM SEWER LINE CONNECTION AT GRADE.

1. ALL DOWNSPOUTS SHOW-AS-DIMENSIONS REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR RESPECTIVE PENETRATION INTO BUILDING WALL AND CONNECTION TO STORM DRAINAGE SYSTEM.

G. PENETRATIONS: NOT ALL REQUIRED ROOF PENETRATIONS ARE ILLUSTRATED ON ARCHITECTURAL ROOF PLANS. PROVIDE CIRCLES, FLASHING CIRCLES, COLUMN SCHEDULES, ETC. FOR ARCHITECTURAL DETAILS. ALL PENETRATIONS REQUIRE MACHINIST AND MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

H. VENT EQUIPMENT: REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ROOF MOUNTED EQUIPMENT AND ROOF CART.

ROOF PLAN KEYNOTES

1. MECHANICAL SCREEN, HS AT DOWNSPOUT & AS NOTED ON STRUCTURAL DRAWINGS. SSD, CONFIRM CLEARANCES WITH EQUIPMENT MANUFACTURER. SEE DETAILS 2 / A50.03
2. MECHANICAL EQUIPMENT WITH CIRCLES SEE MECHANICAL DRAWINGS AND DETAILS 4 / A40.03
3. MECHANICAL SCREEN, GATE 4" CLEAR OPENING
4. LINE INDICATES 10' OFFSET FROM ROOF EDGE
5. MECHANICAL SCREEN, SEE DETAILS 2 / A40.03 AND SSD CONFIRM CLEARANCES WITH MECHANICAL MANUFACTURER. SEE DETAILS 2 / A50.03
6. MECHANICAL SCREEN, GATE 4" CLEAR OPENING
7. CONDUIT FOR ROOF ANTENNAS, COORDINATE LOCATION AND QUANTITY WITH ELECTRICAL DRAWINGS
8. ROOF ACCESS LADDER, SEE DETAIL 1 / A50.03

ROOF PLAN LEGEND

- **MEMBRANE ROOF**
- EXHAUST FAN SEE 3 / A40.03 & 4 / A40.03
- DOWNSPOUT, SEE 2 / A31.00 & 3 / A31.03
- SPLASH BLOCK, SEE 4 / A40.02
- VENT PIPE SEE 5 / A40.05
- ROOF ANCHOR ATTACH TO BEAM BELOW SSD SEE 5 / A40.03 58Ø
- 36" wide stairway pad
SECTIONS GENERAL NOTES:

1. SEE A02 SERIES SHEETS FOR BUILDING AND WALL SECTION AND WALL TYPE GENERAL NOTES
2. SEE A01 SERIES SHEETS FOR WALL TYPE DESCRIPTION AND NOTES
3. SEE ROFS FOR LAYOUT OF CEILINGS, LIGHTS, MECHANICAL DUCTS AND FIRE SPRINKLERS LINES IN OPEN TO STRUCTURE CONDITIONS

ALL INTERIOR WALL TYPES ARE 1X81 UNO
BUILDING & WALL SECTION AND WALL TYPE GENERAL NOTES

A. OTHER NOTES: SEE GENERAL NOTES ON G2 SERIES SHEETS FOR ADDITIONAL INFORMATION.

B. WALL TYPES: ALL WALL TYPES ARE NOT NECESSARILY USED; SEE FLOOR PLANS, BUILDING, WALL AND VERTICAL CIRCULATION SECTIONS FOR SCOPE. WALLS SHOWN ON FLOOR PLANS ARE ONLY THOSE WALLS THAT ALIGHT ON TOOLS OR ARE INTERSECTED BY WALL SECTIONS. SEE WALL SECTIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY MODIFY THE WALL TYPES ABOVE THE MAIN FLOOR LEVEL, IN WHICH CASE THE WALL SHELLS (SOFFIT) SHALL NOT BE REQUIRED. SEE WALL TYPES, SECTIONS AND STRUCTURAL DRAWINGS FOR MORE DETAIL AND SPECIFICATIONS.

C. WALL CONSTRUCTION: WALL CONSTRUCTION SHALL BE PER FOR MATERIALS, DETAILING, LOCATION AND SPECIFICATIONS. ALL WALLS SHALL BE CONSIDERED WALLS WITH PHasing (INCLUDING BOLTS), WHERE A FIRE RATING IS REQUIRED.

D. BACKING CONSTRUCTION PLANS CONSTRUCTION TO PROVIDE STEEL STUD WALL SHELLS ALONG WALLS WITH MOUNTED ENCLOSED, PLUS ALL NLC, FOC AND FOI ITEMS. SEE DIVISION 8 SECTION "Table of Functional Metal Framing and Division 9 Section "Non-structural Metal Framing".

E. RECESS ITEMS, EXCEPT WHERE MOUNTING DEVICES ARE TO BE RECESSED OR MOUNTED ON FIRE-RATED PARTITIONS, THE FINISH SURFACE OF A WALL WILL BE MADE TO RECESS CONTINUOUSLY THROUGH THE WALL CONSTRUCTION. CABEENTS BEFORE THEIR INSTALLATION TO MAINTAIN AVOID INSTALLING TILES, WOOD, OR ANY OTHER MATERIAL WHICH WOULD HAMPER RECESSING, BACK PLASTER OR PROTECT OTHER APPROVED ARRAYS WITHIN ALL PANELS. SUBJECT TO OTHER PENETRATIONS IN PARTITIONS AND CEILINGS IN ORDER TO MAINTAIN REQUIRED FIRE SEPARATIONS AND RATED ASSEMBLIES.

F. SOUND-INSULATION: IN WALLS WHERE SOUND INSULATION IS REQUIRED, IT SHALL BE CONTINUOUS FOR THE FULL LENGTH AND FULL HEIGHT OF THE WALL, UNLESS SPECIFICALLY NOTED OTHERWISE.

G. PANEL HEIGHT WALLS: STUD WALLS WHICH ARE NOT REQUIRED UP TO THE UNDERSIDE OF STRUCTURE ABOVE SHALL MAKE THE TOP OF THE WALL BREDGE. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS TO ACHIEVE FIRE RATING OF WALL, IF REQUIRED.

H. SLABS AT OPENINGS: AT EXTERIOR DOOR OPENINGS AND AT ALUMINUM CURTAIN WALL PARTITIONS, SYSTEMS THAT EXTEND THE SLAB BLACK TO THE OUTSIDE OF THE INTERIOR IN STOCK (AS DETAIL ON STRUCTURAL DRAWINGS) AND CONTINUE INTERIOR FLOOR SLAB OUT OVER EDGES SHALL, UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS, INSTALL 3/4" THICK (AT LEAST) 12" X 12" X 1/4" (305 X 305 X 6.4MM) GLASS WICKER ON EDGES AND 1/2" (13MM) THICK (AT LEAST) 12" X 12" X 3/16" (305 X 305 X 4.8MM) GLASS WICKER ON EDGES, UNLESS OTHERWISE NOTED. ALSO SEE STRUCTURAL DRAWINGS AND TYPICAL FINISH DETAILS AT THESE LOCATIONS.

I. DIMENSION NOTES: SEE FLOOR PLAN GENERAL NOTES ON ARCHITECTURAL SHEETS FOR INFORMATION ON DIMENSIONS.

J. WALL THICKNESS AND ALIGNMENT:

1. CONTRACTOR SHALL VERIFY AND COORDINATE WALLS AND INTERIOR WALLS THAT REQUIRE A non-THICK WALL. THICKNESS FOR NON-ACCESSIBLE, ELECTRICAL, MECHANICAL, OR OTHER REQUIREMENTS.

2. ON A CONTINUOUS WALL SURFACE WHERE CONSTRUCTION WOULD MAKE MORE THAN ONE COMPLETE PASSAGE, THICKNESS, ALIGN FACE OF FINISH, LINISH.

K. Gypsum Wall Board (GWB) AND FINISHES:

1. SEE DIVISION 8 SPECIFICATIONS OR LOCAL REQUIREMENTS.

2. SEE DIVISION 8 SPECIFICATIONS FOR COMPLETE DESCRIPTION OF TYPES OF GWB TO BE REQUIRED.

3. FOR WALL TYPES PROVIDE INTERIOR FINISHES AND RAPIDITY PER FINISH SCHEDULE AND INTERIOR EDUCTIONS.

4. AT ALL LOCATIONS NOT EXPOSED TO VIEW WHERE A RAPID AND SIGHT IS NOT REQUIRED, INSTALL A FIRE-RATED SCHEDULE, FIRE-TAPE AND PIPE TO MEET REQUIREMENTS OF FIRE AND SMOKE RATING. UNLESS NOTED OR SPECIFIED OTHERWISE.

5. FOLLOW CONSTRUCTION DETAILS AND WALL BASES ARE NOT TYPICALLY SHOWN ON WALL SECTIONS OR DETAILS. SEE FLOOR PLANS, ROOM FINISH SCHEDULE AND REFLECTED CEILING PLANS.

L. FIREPROOFING: CONTRACTOR IS RESPONSIBLE TO FIRE LABEL SEALER, PENETRATIONS OF ALL FIRE RATED, ASSEMBLIES. ALL FIRE RATE ASSEMBLIES, ALL SHORE PENETRATIONS, ALL PENETRATIONS OF FIRE RATED, SHEET METAL, ASSEMBLIES REQUIRED BY CODE TO BE DETAILED AND MANUFACTURED TO MEET CODE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO FIRE-RATE THE PENETRATION SPECIFICALLY DESCRIBED OR DETAIL SPECIFICATIONS. ALL PENETRATIONS THROUGH A WALL OR OTHER STRUCTURAL WALL OR PARTITION WALL OR PARTITION WALL, OR TO WALLS, ASsemblies, Ducts, columns, cores, etc., Penetration details, Penetration section, Penetration Fireproofing, for further Definition and Requirements. ALL PenETRATIONS OF BUILDING ASSEMBLIES ARE TO BE SEALLED FOR SOUND CONTROL PURPOSES BY GRIME AND TARE. WHERE BOTH FIRE RATED AND NON-FIRE RATED ASSEMBLIES SHALL BE INCLUDED IN THE BID. ALSO SEE NON-MERIDIAN CODE SHEETS.

M. SOUND CONTROL: AT WALLS AROUND POTENTIAL NOISE SPACES SUCH AS MECHANICAL ROOMS, ELEVATORS, ELEVATOR EQUIPMENT ROOMS, ATTIC ROOMS, AND OTHER USES AS SPECIFIED. CONTRACTOR SHALL PROVIDE SPECIFICATIONS TO ALLOW FOR THE ISOLATION OF THE NOISE AS SPECIFIED. CONTRACTOR SHALL PROVIDE SHEETS TO ALLOW FOR THE ISOLATION OF THE NOISE AS SPECIFIED. WHERE NOT SPECIFIED ELSEWHERE IN THE BID, THE WALLS TO BE ISOLATED SHALL BE NOTED IN THE BID. ALSO SEE NON-MERIDIAN CODE SHEETS.

N. SOUND CONTROL: AT WALLS AROUND POTENTIAL NOISE SPACES SUCH AS MECHANICAL ROOMS, ELEVATORS, ELEVATOR EQUIPMENT ROOMS, ATTIC ROOMS, AND OTHER USES AS SPECIFIED. CONTRACTOR SHALL PROVIDE SPECIFICATIONS TO ALLOW FOR THE ISOLATION OF THE NOISE AS SPECIFIED. CONTRACTOR SHALL PROVIDE SHEETS TO ALLOW FOR THE ISOLATION OF THE NOISE AS SPECIFIED. WHERE NOT SPECIFIED ELSEWHERE IN THE BID, THE WALLS TO BE ISOLATED SHALL BE NOTED IN THE BID. ALSO SEE NON-MERIDIAN CODE SHEETS.

O. PLACEMENT WALLS WITHIN 1-5" OF SLAB SURFACE AND APPLY CONTINUOUS ACOUSTICAL SEALANT ALONG MACE TO SEAL ALL JOINTS AND KICKS.

P. DO NOT PLACE ELECTRICAL OR OTHER OUTLINES ON OPENED-FACE TREATED WALL SHEET BACK TO BACK WITHIN THE SAME EDITION.

Q. APPLY SOUND ISOLANT TO WALL TERMINATIONS ABOVE SUSPENDED CEILINGS AT LOCATIONS WHERE THE WALL SHEET BACK TO BACK WITHIN THE SAME EDITION.

R. WHERE TOP OF WALL INTERSECTS METAL DECK, FILL PLATES WITH BURST INSTALLATION.

S. FIRE TAPE AND MID-GRADE ABOVE FINISHED CEILINGS TO FULL EXTENT OF WALL AND SEAL ALL JOINTS AND KICKS.

T. ENCLOSURE: SEE STRUCTURAL DRAWINGS.

U. ELECTRICAL REQUIREMENTS OR SPECIFICATIONS FOR MATERIALS AS SPECIFIED OR ACCESSIBLE WIRING SYSTEMS FOR EASE OF INSTALLATION.

V. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

W. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

X. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

Y. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

Z. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

AA. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

BB. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

CC. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.

DD. REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR MORE INFORMATION.
### INTERIOR WALL TYPE

1. **Actual Wall Stud Thickness per Plan**
   - 1.44" x 10" OC OH or 1.72" x 12" OC
   - 2. Blocking and/or backing at ceiling line and as required by code
   - 3. S/W F/Rmeg in 0.8" OC OH or 0.8" OC OH
   - 4. H/W stud is continuous from floor, foundation or headerbeam as applicable, to underside of floor or roof structure, UNO

2. **Construction**
   - 1. Double F/Rmeg of 1.0" OC OH or 1.25" OC OH
   - 2. Blocking and/or backing at ceiling line and as required by code
   - 3. S/W F/Rmeg in 0.8" OC OH or 0.8" OC OH
   - 4. H/W stud is continuous from floor, foundation or headerbeam as applicable, to underside of floor or roof structure, UNO

3. **Fire Rating**
   - 1. 1-hour fire rated where 1.8" stud is noted on the floor plan wall types, one hour fire rating per GA file no. WP 1072.

4. **Sound**
   - 1. STC 40/40 WR insulation per GA file no. WP 120.
   - 2. STC 40/40, with 3/8" sound insulating per GA file no. WP 1072.

5. **Notes**
   - 1. See notes on sheet A30.06 for additional requirements.

### EXTERIOR WALL TYPE

1. **Actual Wall Stud Thickness per Plan**
   - 1.44" x 10" OC OH or 1.72" x 12" OC
   - 2. Blocking and/or backing at ceiling line and as required by code
   - 3. S/W F/Rmeg in 0.8" OC OH or 0.8" OC OH
   - 4. H/W stud is continuous from floor, foundation or headerbeam as applicable, to underside of floor or roof structure, UNO

2. **Construction**
   - 1. Double F/Rmeg of 1.0" OC OH or 1.25" OC OH
   - 2. Blocking and/or backing at ceiling line and as required by code
   - 3. S/W F/Rmeg in 0.8" OC OH or 0.8" OC OH
   - 4. H/W stud is continuous from floor, foundation or headerbeam as applicable, to underside of floor or roof structure, UNO

3. **Fire Rating**
   - 1. 1-hour fire rated where 1.8" stud is noted on the floor plan wall types, one hour fire rating per GA file no. WP 1072.

4. **Sound**
   - 1. STC 40/40 WR insulation per GA file no. WP 120.
   - 2. STC 40/40, with 3/8" sound insulating per GA file no. WP 1072.

5. **Notes**
   - 1. See notes on sheet A30.06 for additional requirements.

### NOTIONS TO INTERIOR WALL TYPES

A. See sheet A30.06 for building and wall section and wall types general notes.
B. See structural drawings for framing requirements for interior wall types and legend.

**Wall Thickness:** Thickness of basic wall material, less finishes

- **Basic Wall Thickness:** Nominal size in inches (actual size for steel), UNO
- **Wall Material:** Type of material of basic wall members

### NOTES TO EXTERIOR WALL TYPES

A. See building and wall section and wall types general notes for additional information.
B. See structural drawings for non-structural stud gauge and framing requirements.

### ABBREVIATIONS TO THE WALL ASSEMBLIES

- **Exterior Material:** Exterior wall finish
  - **VMS:** Vertically oriented metal siding
  - **HMS:** Horizontally oriented metal siding
  - **Metal Siding**

- **Stud Material:**
  - **IP:** Wood stud
  - **CH:** Light gauge channels, steel stud

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*Image and text content provided for illustrative purposes.*
WINDOW, LOUVER, FRAME & DOOR
SCHEDULE ABBREVIATIONS

A. FENESTRATION PRODUCTS SHALL BE LABELED WITH RATED U-FACTOR, SHGC, VT, AND LEAKAGE RATING.
B. SEE SHEET G-32 AND G-32 FOR GENERAL NOTES, ABBREVIATIONS AND TYPICAL MOUNTING HEIGHTS. ALSO SEE THIS SHEET FOR ADDITIONAL ABBREVIATIONS SPECIFIC TO THESE SCHEDULES.
C. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
D. SEE LOUVER, WINDOW, FRAME, AND DOOR DETAILS ON AS-464 SERIES SHEETS. DETAILS MAY BE GENERIC/WRECK, REFER TO SECTIONS AND WALL TYPES FOR WALL CONSTRUCTION AT SPECIFIC LOCATIONS. ADDITIONAL LAYERS OF DIMENSION DIMENSIONS WILL BE REQUIRED/ILLUSTRATED IN W.R. TECHNICAL DRAWINGS. ALSO SEE INTERIOR AND EXTERIOR ELEVATIONS.
E. WALL, LOUVERS, FRAMES, WINDOWS, AND DAGERS ARE REFERENCED ON THE FLOOR PLANS AND/OR EXTERIOR ELEVATIONS.
F. FINISHES: REFER TO APPROPRIATE SECTIONS IN SPECIFICATIONS.
G. FRAMES SHALL NOT BE FASTENED AT HEAD CONDITIONS UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER AND DETAILED TO ACCOMMODATE DEFLECTION OF THE WALL ABOVE.
H. ALL METAL AND GLASS WORK SHALL ALLOW FOR HORIZONTAL AND VERTICAL THERMAL EXPANSION AND CONTRACTION.
I. DIMENSIONS
1. DIMENSIONS CALLED OUT ON DRAWINGS ARE ROUGH OPENING DIMENSIONS AT LOUVERS, AND ALUMINUM VLY, WINDOWS, UNLESS METAL DIMENSIONS ARE GIVEN AS ACTUAL FRAME DIMENSIONS. DIMENSIONS SHOWN ON FRAME SCHEDULE AND TYPES ARE GENERALLY ROUGH OPENING DIMENSIONS. DIMENSIONS SHOWN ON WALL CONSTRUCTION ARE ACTUAL FRAME DIMENSIONS.
2. SCHEDULES SHOW DETAILS REQUIRED FOR INSTALLATION, ALIGNMENT, GAP CAN VARY. SEE TOLERANCES, INSTALLATION, AND RECESSING SPECIFICATIONS ON THE DRAWING SHEETS OR SPECIFICATIONS IN THIS DOCUMENT.
3. ALL OPENINGS THAT OCCUR IN METAL WALL PANELS ARE TO ALIGN WITH PANEL JOINTS, UNLESS FIELD VERIFY EXACT SIZE AND CONFIGURATION AND INDICATE ON SHOP DRAWINGS.
4. DIMENSIONS FOR GLAZING ON FRAME TYPES INDICATE CLEAR OPENING. GLASS SIZE.
5. WHERE SCHEDULE SHOWS DIMENSIONS, BOTH VERTICAL AND HORIZONTAL, AS A X B, THIS INDICATES THE ACTUAL GLAZING DIMENSIONS. OTHER THAN AS SPECIFIED ON THE DRAWINGS, ALL OTHER GLAZING UNITS SHALL BE PROPPED FOR EASE OF MAINTENANCE.
6. WHERE THERE ARE ANY VISIBLE CLEARANCES BETWEEN FRAME AND WALL, THEY SHALL BE COVERED BY A TIGHT FIT.
7. WHEREVER METALS OF DIFFERENT GALVANIZED RANGE ARE TO BE IN CONTACT, SUCH AS ALUMINUM THRESHOLDS AND HOLLOW METAL DOOR FRAMES, ETC., PROVIDE INDUSTRY-APPROVED SEPARATION BY THERMAL PAINT COATS OR OTHER APPROVED METHOD AS APPROVED BY ENGINEER.
L. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL FRAMING OF OPENINGS. STRUCTURAL DRAWINGS SHALL SUPERSEDE FRAMING SHOWN ON ARCHITECTURAL DETAILS.
M. ALL ELEVATIONS ARE SHOWN AS VIEWS FROM EXTERIOR. DETAILS SHOWN MAY BE OPPOSITE HAND OF ACTUAL CONDITION.
N. VERIFY MOUNTING LOCATION FOR ALL BLINDS AND SHADERS WITH THE ENGINEER PRIOR TO INSTALLATION.
O. LOUVERS - NO L
P. HOLLOW METAL FRAMES
1. DOOR FRAME (SIDE SIDES) SHALL BE 4 1/2" FROM ADJACENT PERPENDICULAR WALL, UNLESS SMALLEST ALLOWABLE DIMENSION FROM ADJACENT WALL ATITIES TO PERPENDICULAR WALL, TO BE NO LESS THAN 3 1/2" UNLESS SPECIFIED.
2. ALL STUD WALL THERMS WILL REQUIRE ATTACHMENT TO WALL AT EXTERIOR WALL, OR WINDOW NOTES ON DETAILS.
3. ALL FRAME DETAIL SHEETS REQUIRE DETAILS TO BE CONFIRMED/ADJUSTED AS REQUIRED.
4. FRAMES WITHOUT RAILS ARE REFERENCED ON THE DOOR SCHEDULE ONLY. FRAMES WITH ATTACHED RAILS ARE REFERENCED ON THE DOOR SCHEDULE. RAILS WITHOUT ASSOCIATED FRAMES ARE REFERENCED ON THE 38x50 PLAN ONLY.
5. FURTHER DETAIL SHEETS REQUIRED WHERE U-FACTOR NOT GREATER THAN 0.35, A SHGC NOT GREATER THAN 0.45, AND A VT NOT LESS THAN 4.0.
6. HOLLOW METAL FRAME ASSEMBLIES WITH GLAZING SHALL HAVE A MINIMUM AIR INFLATION RATE OF 0.2 CFM.
7. SEE AS-464 SERIES DRAWINGS FOR SCHEDULES, DETAILS AND ADDITIONAL INFORMATION.
Q. ALUMINUM FRAME & WINDOWS
1. ALUMINUM FRAME AND WINDOWS SHALL BE-twitter. SEE SHEET G-32 AND G-32 FOR GENERAL NOTES, ABBREVIATIONS AND TYPICAL MOUNTING HEIGHTS. ALSO SEE THIS SHEET FOR ADDITIONAL ABBREVIATIONS SPECIFIC TO THESE SCHEDULES.
2. SEE EXTERIOR ELEVATIONS FOR THE RELATIONSHIP OF WINDOWS TO CORRIGENT JOINTS AND BRICKWORK/BRICK.- SEE SHEET G-32 AND G-32 FOR GENERAL NOTES, ABBREVIATIONS AND TYPICAL MOUNTING HEIGHTS. ALSO SEE INTERIOR AND EXTERIOR ELEVATIONS.
3. ALUMINUM FRAME AND WINDOWS SHALL BE-twitter. SEE SHEET G-32 AND G-32 FOR GENERAL NOTES, ABBREVIATIONS AND TYPICAL MOUNTING HEIGHTS. ALSO SEE INTERIOR AND EXTERIOR ELEVATIONS.
4. ALL GLAZING TYPES AND DETAILS ARE REFERENCED ON THE DOOR SCHEDULE ONLY. FRAMES WITH ATTACHED RAILS ARE REFERENCED ON THE DOOR SCHEDULE. RAILS WITHOUT ASSOCIATED FRAMES ARE REFERENCED ON THE 38x50 PLAN ONLY.
5. FURTHER DETAIL SHEETS REQUIRED WHERE U-FACTOR NOT GREATER THAN 0.35, A SHGC NOT GREATER THAN 0.45, AND A VT NOT LESS THAN 4.0.
6. HOLLOW METAL FRAME ASSEMBLIES WITH GLAZING SHALL HAVE A MINIMUM AIR INFLATION RATE OF 0.2 CFM.
7. SEE AS-464 SERIES DRAWINGS FOR SCHEDULES, DETAILS AND ADDITIONAL INFORMATION.
8. ALL WINDOW ASSEMBLIES SHALL HAVE A U-FACTOR NOT GREATER THAN 0.35. A SHGC GREATER THAN 0.45, AND A VT NOT LESS THAN 4.0.
9. ALL WINDOW ASSEMBLIES SHALL HAVE A MAXIMUM AIR INFLATION RATE OF 0.2 CFM.
R. GLAZING
1. PROVIDE TEMPERED GLASS FOR INTERIOR LOCATIONS AND INSULATED TEMPERED GLASS AT ALL LOCATIONS REQUIRED BY CODE. WHETHER NOT NOTED IN THIS SECTION NOT ADDITIONALLY, PROVIDE TEMPERED AND INSULATED TEMPERED GLASS IN ALL LOCATIONS SHOWN IN THIS SCHEDULE, DETAILS, AND SCHEDULES.
2. PROVIDE INSULATION TAPE, SHIMS, ETC. AS INDICATED IN SECTION 88B00 OF PROJECT MANUAL. THESE ITEMS ARE NOT NECESSARY SHOW IN DETAILS.
3. FOR GLASS TYPES AND LOCATIONS SEE FRAME TYPES AND SCHEDULES ON AS-464 SERIES SHEETS.
4. ALL EXTERIOR GLAZING TO BE AROSA PULL- AND HORSE COATING. SEE NOTES P. AND P. FOR ASSEMBLY L 1. ACCESS DOORS, VT, AND AIR INFLATION REQUIREMENTS.
### Door Types

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**Common Frame Types**

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### Window Schedule

#### Aluminum Storefront

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#### Insulated Composite Spandrel Panel, Color to Frame Color

#### ABB 1 (Sloped)

#### ABB 2

### Window Schedule

#### Interior Hollow Metal

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### Finish Schedule Legend

- **OK**: Coril over medium density overlay (MDO)
- **P1F**: Ceramic tile to washcoat, resinboard backer
- **GWB**: Composite wall board, plain; see specifications for floor level
- **PLAM**: Plastic laminate washcoat over medium density overlay (MDO)
- **RB**: 4" rubber base
- **SC**: Sealed concrete
- **PC**: Polished concrete
- **IT**: Porcelain tile
- **RBMT**: Resilient iso-based tile

### Finish Schedule General Notes

A. **Other Notes**: See general notes on G2 series sheets for additional information.
B. **Wall Types**: See floor plans on G2 series sheets for wall type callouts.
C. **General Notes**: See floor plan general notes on G2 series sheets and wall & building section and wall type notes on A1 and sheets for specific portions of building.
D. **Ceilings**: See reflected ceiling plans on A1 series sheets for ceiling heights and finishes.
E. **Floor and Base Details**: See A21 series sheets for details.
F. **Color and Material Schedule**: See A11 series sheets.
G. **Varying Finish Materials**: See plans and interior elevations for location and exact type of material used. Finishes in area more than one material, or otherwise.
H. **Recessed Panels**: Provide plywood backing panels for telephone and electrical runs and equipment, paint white. Coordinate with electrical and telecommunications drawings and specifications.
I. **Exposed Steel**: Steel shall be listed on the room finish schedule. See opening schedules for specific requirements. All materials are fully used. See these assemblies no material on finish is noted on the finish schedule.
J. **Exposed Structure and Miscellaneous Steel Finish**: All exposed steel shall be finished with high-performance coatings (where exposed, unless specifically noted otherwise). Generally, exposed steel that is visible to the public is not scheduled on the finish schedule.
K. **Oxidized Wall Board (GWB)**:
   1. All GWB shall be type V, unless noted otherwise. Reference finish schedule and specifications for specific exposure.
   2. Water resistant GWB to be used at restrooms, toilet rooms, showers, attics and walls behind or adjacent to MDF furniture, and as scheduled.
   3. Provide corner bead at GWB edges wherever edges terminate against a different material or at a reveal. Provide corner bead at all GWB corners. Typical to all sections of this drawing set.

### Room Finish Schedule

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<td>102</td>
<td>FBR Bed Room</td>
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<td>RB</td>
<td>RBMT</td>
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<td>103</td>
<td>BATH</td>
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### GMB Plan Layout

- **GMB Plan Trim**
- **GMB Plan**
- **MDO**
- **B1**
- **B2**
- **B3**
- **B4**

### MDO to GWB Transition at Plam

1. **MDO TO GWB TRANSITION AT PLAM**

### Floor Tile Layout

- **Accent Tile (GMA)**
- **4" x 4" Dimensions**

### Diagram

Diagram showing the transition between MDO and GWB, with accents and floor tile layout.
### COLOR & MATERIAL SCHEDULE

<table>
<thead>
<tr>
<th>DIVISION/SECTION</th>
<th>ITEM</th>
<th>MANUFACTURER</th>
<th>PRODUCT</th>
<th>COLOR</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>090600 High Performance Coatings</td>
<td>MRC-1</td>
<td>Trimaco</td>
<td>Color (Select)</td>
<td>To Match Shown Villa BM (trim)</td>
<td>See Materials &amp; Methods</td>
</tr>
<tr>
<td>090600 High Performance Coatings</td>
<td>MRC-4</td>
<td>Trimaco</td>
<td>Adobe</td>
<td>Same as High Performance Coatings</td>
<td>See Materials &amp; Methods</td>
</tr>
</tbody>
</table>

### 090600 High Performance Coatings

#### 090610 Signage
- Dimensional Lettering: Exterior
- Panel Type: Rigid, Laser-Cut Metal
- Color: To match MRC-1

#### 090620 Signage
- Dimensional Lettering: Exterior
- Panel Type: Rigid, Laser-Cut Metal
- Color: To match MRC-4

#### 090630 Signage
- Dimensional Lettering: Exterior
- Panel Type: Rigid, Laser-Cut Metal
- Color: To match MRC-4

#### 090640 Signage
- Dimensional Lettering: Exterior
- Panel Type: Laser-Cut Metal
- Color: To match MRC-4

### 091100 Steel Columns
- Structural: Exterior
- Color: Silver Mirror

### 091100 Steel Columns
- Structural: Exterior
- Color: Black Mirror

### 091100 Steel Columns
- Structural: Exterior
- Color: Bronze Mirror

### 091100 Steel Columns
- Structural: Exterior
- Color: Copper Mirror

### 091100 Steel Columns
- Structural: Exterior
- Color: Gold Mirror

### 091100 Steel Columns
- Structural: Exterior
- Color: Blue Mirror

### 091100 Steel Columns
- Structural: Exterior
- Color: Green Mirror
### TABLE 1 - REQUIRED GEOTECHNICAL SPECIAL INSPECTIONS

<table>
<thead>
<tr>
<th>System or Material</th>
<th>ISO Code/Reference</th>
<th>Inspection Code</th>
<th>Frequency Class</th>
<th>Required Reference</th>
<th>Frequency Class</th>
<th>Required Reference</th>
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### TABLE 2 - REQUIRED STRUCTURAL SPECIAL INSPECTIONS

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<th>Inspection Code</th>
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### INSPECTION

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</table>

### REMARKS

- Verify materials being utilized in foundations are able to achieve the design bearing capacity.
- Verify bearing and end-plate connections for proper depth and have required proper materials.
- Performed classification and testing of composite material.
- Perform use of proper materials, quantities and lifting procedures during placement and compaction of compacted fill.
- Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.
- Where fabrication of structural components takes place, the specifications of WELDING PROCEDURE SPECIFICATIONS (WPS) shall be shown on the shop drawings.REFERENCES:
- TB 1794.5, TB 1794.6, TB 1794.7, TB 1794.8, TB 1794.9, TB 1795.0, TB 1795.1, TB 1795.2, TB 1795.3
- TB 1750.4, TB 1750.5, TB 1750.6, TB 1750.7, TB 1750.8, TB 1750.9, TB 1750.10
### TABLE 2A - REQUIRED STRUCTURAL SPECIAL INSPECTIONS for Seismic Resistance

<table>
<thead>
<tr>
<th>INSPECTION</th>
<th>IC CODE</th>
<th>CODE OF STANDARD REFERENCE</th>
<th>FREQUENCY (NOTE 1)</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>GENERAL</td>
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<td>CONTINUOUS PERIODS</td>
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<td>VISUAL INSPECTION AFTER WELDING</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>PLACEMENT OF REINFORCING CONCRETE</td>
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<tr>
<td>SEISMIC FORCE RESISTING SYSTEMS (SFRS) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, OR E</td>
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<tr>
<td>INSPECTION OF COMPOSITE STRUCTURES PRIOR TO CONCRETE PLACEMENT</td>
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<tr>
<td>INSPECTION OF COMPOSITE STRUCTURES DURING CONCRETE PLACEMENT</td>
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### TABLE 2B - REQUIRED STRUCTURAL SPECIAL INSPECTIONS for Wind Resistance

<table>
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<th>FREQUENCY (NOTE 1)</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>ROOF CLADDING AND ROOF FRAMING CONNECTIONS</td>
<td>X</td>
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<tr>
<td>INSPECTING CASING AND ROUNDING TO TRANSITION TO ROOF ANCHORS SHAPER AND PASSING</td>
<td>X</td>
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<tr>
<td>ROOF AND RAIN DRAINING SYSTEMS INCLUDING COLLECTION AND RECOVERY SYSTEMS</td>
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<tr>
<td>TYPICAL INFASTRUCTURAL SYSTEMS INCLUDING BRACKED FRAMES, MOMENT FRAMES AND SHEAR WALLS</td>
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### TABLE 2C - REQUIRED STRUCTURAL INSPECTIONS for Special Cases

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<td>FABRICATION AND ERECTION</td>
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### TABLE 3 - REQUIRED STRUCTURAL TESTING

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<td>CONCRETE</td>
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## Table 1: Required Architectural Special Inspections

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<th>System or Material</th>
<th>BC Code Reference</th>
<th>Code or Standard Reference</th>
<th>Frequency</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Sprayed Fire-Resistant Materials and Intumescent Fire-Resistant Coatings</td>
<td>1790.12</td>
<td>1790.12</td>
<td>CEC Elevation</td>
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<td>Application</td>
<td>1790.12</td>
<td>1790.12</td>
<td>Elevation</td>
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<tr>
<td>Exterior Insulation and Finish Systems</td>
<td>2705.10</td>
<td>2705.10</td>
<td>1790.12</td>
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<tr>
<td>Installation</td>
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<td>2705.10</td>
<td>1790.12</td>
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<tr>
<td>Fire-Resistant Penetrations and Joints</td>
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<td>1790.12</td>
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<tr>
<td>Smoke Control Systems</td>
<td>2705.10</td>
<td>2705.10</td>
<td>1790.12</td>
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### Statement of Special Inspections for Non-Structural Special Inspections and Testing

**Surface Conditions**

- Spayed Fire-Resistant Materials and Intumescent Fire-Resistant Coatings
- Application
- Exterior Insulation and Finish Systems
- Installation
- Fire-Resistant Penetrations and Joints
- Smoke Control Systems

**Table 2: Required Non-Structural Special Inspections for Seismic Resistance**

<table>
<thead>
<tr>
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<th>BC Code Reference</th>
<th>Code or Standard Reference</th>
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<th>Remarks</th>
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<tr>
<td>Installation and Anchorage of Loading and Intersections Where Seismic Moment More Than 3 PIP &amp; Minimum Wider Than 1 1/2 PIP, Subject to Threading Anchors Welded</td>
<td>710.2</td>
<td>710.2</td>
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<tr>
<td>Installation and Anchorage of Exterior Beam and Column</td>
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<tr>
<td>Installation and Anchorage of Storage Tanks</td>
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<td>710.2</td>
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<tr>
<td>Installation and Anchorage of Damaged Architectural Systems and Their Components</td>
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<tr>
<td>Installation and Anchorage of Damaged Electrical Equipment</td>
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<tr>
<td>Installation and Anchorage of Damaged Mechanical Components of a Contractor Responsibility, and as Listed in the Reference Information</td>
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**Table 3: Non-Structural Testing**

<table>
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<th>Frequency</th>
<th>Remarks</th>
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<td>Thickness of Floor, Roof, and Wall Assemblies</td>
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<td>ASTM D4</td>
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<tr>
<td>Bond Strength at Floor, Roof, and Wall Assemblies</td>
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<td>ASTM D1</td>
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<tr>
<td>Intumescent Fire-Resistant Coatings</td>
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<td>ASTM D1</td>
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<tr>
<td>Smoke Control Systems</td>
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<td>ASTM D1</td>
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### Reference Information

- Architectural
- Electrical
- Process Mechanical
- Building Mechanical
- Additional Information
A TYP EXTERIOR NON-BEARING WALL FRAMING DETAIL

C TYPICAL ANCHORAGE AT MUDSILL

NOTES:
1. BRACKETS NOT SHOWN SHALL BE AS INDICATED IN TABLE 30A.1.
2. DELL PLATE TO BE PRESSURE TREATED WHERE IN CONTACT WITH CONCRETE.
3. SEE SECTION D-d FOR MAT RAIL EDGE DIMENSION AND REINF NAM.

TOP PLATE ANCHORAGE PER SECTIONS ON PLANS

2x4 STUD 24" OC AT 1ST KING STUD
2x4 STUD AT 12" OC, TYP
1x4 @ 24" OC AT DELL PLATE
3x4 LBAR
1@ 1X6 HIRL PLATE TO STUD, TYP
DELL 2x4 TOP HIRL PLATE TO STUD, TYP
3x6 DELL 2x4 FLAT HIRL HEADER, TYP
3x6 DELL 2x4 FLAT HIRL HEADER, TYP
3x6 DELL 2x4 FLAT HIRL HEADER, TYP
5/4" O 4" ANCHOR BOLTS PER CF/STUD, TYP.

NOTES:
- SEE SECTIONS ON PLANS FOR MAT RAIL EDGE DIMENSION AND REINF NAM.
**PLUMBING FIXTURE SCHEDULE**

<table>
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<th>UNIT NO</th>
<th>FIXTURE</th>
<th>MOUNTING</th>
<th>MANUFACTURER AND MODEL NUMBERS</th>
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<th>V</th>
<th>HM</th>
<th>CF</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>P-1</td>
<td>WATER CLOSET</td>
<td>WALL</td>
<td>AMERICAN STANDARD PNWAL, 3301.128</td>
<td>4&quot;</td>
<td>2&quot;</td>
<td>1&quot;</td>
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<td>PROVIDE BOLT CAPS</td>
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<td>P-1A</td>
<td>WATER CLOSET-ADA</td>
<td>WALL</td>
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<td>ADA COMPANY, TOC MUST BE 1&quot; HIGH PER ADA BOLT CAPS</td>
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<td>4&quot;</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td></td>
<td>ADA COMPANY, 99&quot; W IN TO BE 1&quot; ABOVE FINISHED FLOOR</td>
</tr>
<tr>
<td>P-3</td>
<td>LAUNDRY</td>
<td>WALL</td>
<td>FIDELI, THIS 3360.059 3306.059 3360.059</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td></td>
<td>ADA COMPANY, PROVIDE TOG RPD, INSTITUTIONAL ADA REGULATOR KIT</td>
</tr>
<tr>
<td>P-3A</td>
<td>MULTI-STATION LAUNDRY-ADA</td>
<td>WALL</td>
<td>BRADLEY, QUADRA-FRONT 691500-0A-85</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td></td>
<td>ADA COMPANY, PROVIDE WAF, POWER, AND SUPPLY STOPS, STRAINER AND P-TRAP, TO GET MAX. HOT WATER DELIVERY TEMPERATURE AT 105°F, MOUNTING HEIGHT PER ARCHITECTURAL ELEVATION, COLOR TO BE BROWN GRAY, LEAD FREE</td>
</tr>
<tr>
<td>P-4</td>
<td>KITCHEN DOUBLE DISPOSAL Sink</td>
<td>FLOOR</td>
<td>JUST GLASS A1-1533-2-SR</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td></td>
<td>PREVENT W/OFFSET TRAPS, ADA INSTALLER KIT &amp; EBC L201, LENGTH 64&quot;</td>
</tr>
<tr>
<td>P-5</td>
<td>JANITOR Sink</td>
<td>FLOOR</td>
<td>FLORESTONE 438-2424</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td></td>
<td>MOUNT FITTINGS AT 42&quot; H, PROVIDE 48&quot; HOSE AND CLAMP, PROVIDE WITH W/BE LOW SEAL</td>
</tr>
<tr>
<td>P-6</td>
<td>TWO-LEVEL ADA WASTE COOLER</td>
<td>WALL</td>
<td>ELLIOT LINCOLNSH</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td></td>
<td>BARRIER FREE, DUAL HEIGHT, FINISH WITH TRAY SERVICE SUPPLY STOP AND SUPPORT SYSTEM 115V, 2 FLA, 2 FLA WITH BOTTLE FLUID</td>
</tr>
<tr>
<td>P-7</td>
<td>HOSE BOX</td>
<td>WALL</td>
<td>ZURN 21321</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td></td>
<td>FREEZE PROOF TYPE</td>
</tr>
</tbody>
</table>

**MECHANICAL LEGEND**

- **Hvac**
  - **Symbol**
    - DESCRIPTION: SUPPLY DUCT UP
    - SYM: 00001
      - FLEXIBLE DUCT
      - SUPPLY DUCT DOWN
      - VOLUME DAMPER (V)
      - RETURN, RELOC, TRANSFER, ADA DUCT UP
      - MOTORIZED DAMPER
      - RETURN, RELOC, TRANSFER, ADA DUCT DOWN
      - FLEXIBLE CONNECTION (Duct)
      - EXHAUST DUCT UP
      - TURNING VANES (TV)
      - EXHAUST DUCT DOWN
      - BACKFLOW SHAPER (BS)
      - RECTANGULAR DUCT SQUARE ELUMIN
      - THERMOSTAT (TSTK)
      - RECTANGULAR DUCT, RADIUS ELUMO
      - SPACE PRESSUR SENSOR
      - RECTANGULAR DUCT, SQUARE ELUMIN
      - ROUND DUCT
      - RECTANGULAR DUCT, RADIUS ELUMO
      - Duct AIR TERMINAL SIZE, TYPE & CFM
      - ROUND DUCT ELUMIN
      - SQUARE DUCT
      - CEILING AIR TERMINAL – SQUARE

- **Plumbing**
  - **Symbol**
    - DESCRIPTION: CHECK VALVE (CV)
      - CV-62
      - DOMESTIC COLD WATER (CW)
      - TEM/PRESS. RELIEF VALVE (TAPRV)
      - Cv-62
      - DOMESTIC HOT WATER (HW)
      - BALL VALVE
      - Cv-62
      - SOIL, WASTE (SW)
      - Cv-62
      - PIPE DOWN
      - Cv-62
      - VENT (V), OR MOBILIZED BELOW
      - Cv-62
      - PCV UP
      - Cv-62
      - COND
      - Cv-62
      - BRANCH-TO-CONNECT
      - Cv-62
      - O DRAIN OR VENT UP
      - Cv-62
      - BRANCH-BOTTOM CONNECTION
      - Cv-62
      - WALL CLEANOUT
      - Cv-62
      - FLUSH CONNECTION (FCO/SCO)
      - Cv-62
      - BRANCH-SIDE CONNECTION
      - Cv-62
      - IN LINE WASTE CONNECTION
      - Cv-62
      - UNION
      - Cv-62
      - BRANCH PIPE DOWN
      - Cv-62
      - BRANCH UP
      - Cv-62
      - TEE OR UP
      - Cv-62
      - FLOOR DRAIN
      - Cv-62
      - ELSWH, 8" & 4"
      - Cv-62
      - PIP CONTINUATION
      - Cv-62
      - DAP
      - Cv-62
      - MC MECHANICAL CONDUCTOR
      - Cv-62
      - DRAKE
      - Cv-62
      - ELECTRICAL, CONTRACTOR
      - Cv-62
      - AFT ABOVE FINISHED FLOOR
      - Cv-62
      - VENT THROUGH ROOF
      - Cv-62
      - GENERAL CONTRACTOR
      - Cv-62
      - DRAIN FLOOR
      - Cv-62
      - MCW WALL CLEANOUT

**GRILLES–REGISTERS–DIFFUSERS SCHEDULE**

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>DESCRIPTION</th>
<th>MFR</th>
<th>MODEL</th>
<th>CFM</th>
<th>AIR PATTERN</th>
<th>MOUNTING</th>
<th>FACE SIZE</th>
<th>NECK SIZE</th>
<th>COLOR</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>S01</td>
<td>SUPPL. DEFLECTOR</td>
<td>TITUS</td>
<td>300 RL</td>
<td>PER PLANS</td>
<td>DRL-DEFLECTOR</td>
<td>SURFACE</td>
<td>24&quot; x 24&quot;</td>
<td>12&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>E01</td>
<td>SUPPL. DEFLECTOR</td>
<td>TITUS</td>
<td>SOF-A</td>
<td>PER PLANS</td>
<td>DRL-DEFLECTOR</td>
<td>SURFACE</td>
<td>24&quot; x 24&quot;</td>
<td>12&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>RH1</td>
<td>SUPPL. DEFLECTOR</td>
<td>TITUS</td>
<td>SOF-A</td>
<td>PER PLANS</td>
<td>DRL-DEFLECTOR</td>
<td>SURFACE</td>
<td>24&quot; x 24&quot;</td>
<td>12&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CD01</td>
<td>SUPPL. DEFLECTOR</td>
<td>TITUS</td>
<td>SOF-A</td>
<td>PER PLANS</td>
<td>DRL-DEFLECTOR</td>
<td>SURFACE</td>
<td>24&quot; x 24&quot;</td>
<td>12&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>RD01</td>
<td>SUPPL. DEFLECTOR</td>
<td>TITUS</td>
<td>300-RL</td>
<td>PER PLANS</td>
<td>DRL-DEFLECTOR</td>
<td>SURFACE</td>
<td>24&quot; x 24&quot;</td>
<td>12&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CD1</td>
<td>SUPPL. DEFLECTOR</td>
<td>TITUS</td>
<td>TDC-4</td>
<td>PER PLANS</td>
<td>T-DEFLECTOR</td>
<td>SURFACE</td>
<td>24&quot; x 24&quot;</td>
<td>12&quot;</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTES FOR GRILLES, REGISTERS, DIFFUSERS SCHEDULE**

1. FURNISH WITH "TOPOGRAPHIC DUTY" (DUTY) COOL COLOR TO BE MILL FOR ALUMINUM.
2. FURNISH WITH HORIZONTAL FRONT FRAMES.
3. GRILLE TO BE FIELD PAINTED TO MATCH ADJACENT CEILING COLOR.

**ELECTRIC WATER HEATER SCHEDULE**

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>INFRONT OF</th>
<th>EFFICIENCY</th>
<th>CAPACITY</th>
<th>RECUPERATIVE</th>
<th>WET WEIGHT</th>
<th>ELECTRICAL STARTER</th>
<th>DISCONNECTED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWH-1</td>
<td>AD WSM</td>
<td>ORE-120 JAANITORE</td>
<td>JAANITORE</td>
<td>108R</td>
<td>25</td>
<td>1330</td>
<td>6 460</td>
<td>12.5</td>
<td>ELECTRICAL KAR</td>
<td>DISCONNECTED</td>
<td>REMARKS</td>
</tr>
</tbody>
</table>

**NOTES FOR WATER HEATER SCHEDULE**

1. PROVIDE WITH SINGLE POLE CONTACTOR, FF TO PROVIDE DISCONNECT.
2. HEATING ELEMENTS SHALL BE NON-SIMULTANEOUS OPERATING ONLY.
3. PROVIDE WITH AMTRID, EXPANSION TANK MODEL, S1-12.

**ELECTRIC WALL HEATER SCHEDULE**

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIR TREATMENT</th>
<th>capacity</th>
<th>TEMPERATURE</th>
<th>ELECTRICAL start</th>
<th>DISCONNECTED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWH-1</td>
<td>KING</td>
<td>UCO1024</td>
<td>STAIRWELL</td>
<td>14.4</td>
<td>4900</td>
<td>277</td>
<td>1</td>
<td>DISCONNECTED</td>
<td>REMARKS</td>
</tr>
<tr>
<td>EWH-2</td>
<td>KING</td>
<td>RACS215</td>
<td>FIRE RITTER</td>
<td>500</td>
<td>120</td>
<td>1</td>
<td>DISCONNECTED</td>
<td>REMARKS</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES FOR ELECTRIC WALL HEATER SCHEDULE**

1. PROVIDE WITH SINGLE POLE THERMOSTAT KIT.

**CIRCULATION PUMP SCHEDULE**

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AIR TREATMENT</th>
<th>CAPACITY</th>
<th>TEMPERATURE</th>
<th>ELECTRICAL start</th>
<th>DISCONNECTED</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-1</td>
<td>ARMSTG</td>
<td>87.2B</td>
<td>JAANITORE</td>
<td>125</td>
<td>3400</td>
<td>15</td>
<td>1.5</td>
<td>120</td>
<td>DISCONNECTED</td>
</tr>
</tbody>
</table>

**NOTES FOR CIRCULATION PUMP SCHEDULE**

1. ELECTRIC CONNECTION AQD SIZE SET POINT IS 109F
2. TO PROVIDE A MANUAL STARTER (INCLUDING DISCONNECT), W/C TO PROVIDE AND INSTALL A MOTOR WIRE RELAY FOR CONTROLS INTERLOCK.
# Heat Pump Rooftop Packaged Unit Schedule

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>AREA SERVED</th>
<th>CMF</th>
<th>CYCLE</th>
<th>COOLING CAPACITY</th>
<th>ELECTRICAL</th>
<th>AUX HEATポンプ</th>
<th>STARTED FURN.</th>
<th>DISCONNECT FURN.</th>
<th>DUCT SMOKE DETECTOR</th>
<th>FURN. BY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPU-1</td>
<td>TRANE</td>
<td>WSC120E4XRA</td>
<td>ROOF</td>
<td>LEVEL 1</td>
<td>11.2</td>
<td>67</td>
<td>80 126 94.66</td>
<td>100%</td>
<td>107</td>
<td>70 3400</td>
<td>1640 0.5</td>
<td>1407 80.2 90 480 3</td>
<td>36  MFR EC</td>
<td>0 0 0 0 0</td>
</tr>
<tr>
<td>RPU-2</td>
<td>TRANE</td>
<td>WSC120E4XRA</td>
<td>ROOF</td>
<td>LEVEL 2</td>
<td>11.2</td>
<td>67</td>
<td>80 126 94.66</td>
<td>100%</td>
<td>107</td>
<td>70 3400</td>
<td>1640 0.5</td>
<td>1407 80.2 90 480 3</td>
<td>36  MFR EC</td>
<td>0 0 0 0 0</td>
</tr>
</tbody>
</table>

Notes for Rooftop Packaged Unit Schedule:
1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION KIT.
2. UNITS OVER 2000 CFM WILL INCLUDE DUCT SMOKE DETECTOR IN BOTH SUPPLY AND RETURN DUCTS. MC TO PROVIDE SMOKE DETECTION LOCATION CONFORMS TO ALL LOCAL CODES.
3. UNITS MUST BE PROVIDED WITH FACTORY MULTI-SPEED FANS PER MSEC.

## Exhaust Fan Schedule

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>CONFIGURATION</th>
<th>AREA SERVED</th>
<th>MOTOR HP</th>
<th>PERFORMANCE</th>
<th>BACKFACHT DAMPER</th>
<th>SPEED CONTROL</th>
<th>DRIVE TYPE</th>
<th>ELECTRICAL VOLTS</th>
<th>PANEL FURN. BY</th>
<th>DISCONNECT FURN. BY</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF 1</td>
<td>GREENWICH</td>
<td>G-065-VG</td>
<td>DOMEBLAST</td>
<td>KITCHEN</td>
<td>1/8</td>
<td>166 0.25</td>
<td>1663 Y</td>
<td>ECM DIRECT</td>
<td>120 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1</td>
<td></td>
</tr>
<tr>
<td>EF 2</td>
<td>GREENWICH</td>
<td>G-095-VG</td>
<td>DOMEBLAST</td>
<td>RESTROOMS</td>
<td>1/6</td>
<td>660 0.30</td>
<td>1577 Y</td>
<td>ECM DIRECT</td>
<td>120 1 1 1 1 1</td>
<td>1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1</td>
<td>1 1 1 1 1 1 1</td>
<td></td>
</tr>
</tbody>
</table>

Notes for Exhaust Fan Schedule:
1. PROVIDE SINGLE POINT POWER CONNECTION.
2. TO BE INTERLOCKED W/ ASSOCIATED MOTORIZED DAMPER SUCH THAT DAMPER OPENS W/ FAN IS ON; DAMPER CLOSED ALL OTHER TIMES.
3. INTERLOCK WITH RPU-1 OCCUPIED W/O.

## Relief Roof Hood Schedule

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>CURR SIZE</th>
<th>HOOD SIZE</th>
<th>TROUGH SIZE</th>
<th>HEIGHT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RR-1</td>
<td>GREENWICH</td>
<td>MNR</td>
<td>ROOF</td>
<td>24&quot; 12&quot; 22&quot;</td>
<td>30 28 16</td>
<td>14 12.25&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes for Relief Hood Schedule:
1. PROVIDE WITH MOTORIZED DAMPER CONFORMING TO MSEC.

## Split System Outdoor Unit Schedule

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>CMF</th>
<th>ELECTRICAL</th>
<th>DISCONNECT FURN. BY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSU-1</td>
<td>MITSUBISHI</td>
<td>PUX-A24A645S</td>
<td>ROOF</td>
<td>163</td>
<td>10 30 206 1</td>
<td>EC.</td>
<td>0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

Notes for Split System Outdoor Unit Schedule:
1. PROVIDE SINGLE POINT POWER CONNECTION.

## Split System Indoor Unit Schedule

<table>
<thead>
<tr>
<th>UNIT NO</th>
<th>MFR</th>
<th>MODEL</th>
<th>LOCATION</th>
<th>CMF</th>
<th>ELECTRICAL</th>
<th>DISCONNECT FURN. BY</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISU-1</td>
<td>MITSUBISHI</td>
<td>PUX-A24A845S</td>
<td>IT A90</td>
<td>24 17</td>
<td>46 1 36 238 1</td>
<td></td>
<td>0 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

Notes for Split System Indoor Unit Schedule:
1. COOLING TEMPERATURE SETPOINT TO BE 77°F.
2. FURNISH WITH MFR. SUPPLIED CONDENSATE PUMP.
3. INDOOR UNIT POWER CIRCUIT IS SUPPLIED FROM OUTDOOR UNIT.
LEVEL 1 UNDERGROUND PLUMBING PLAN

LEVEL 2 SANITARY WASTE PLAN

GENERAL NOTES
1. ALL PIPING HAS BEEN SHOWN OFFSET FOR CLARITY; ROUTE PIPING AS CLOSE TO PLANS AS BUILDING CONDITIONS PERMIT.
2. ALL WASTE PIPING TO BE SLOPED AT 3/8" PER FOOT. ALL CONDENSATE AND VENT PIPING TO BE SLOPED AT 1/8" PER FOOT.
3. ALL PIPING TO BE RUN CONCEALED WHERE WALLS AND CEILING ARE AVAILABLE.

CONSTRUCTION NOTES
1. 4"W DOWN TO FIRST FLOOR. SEE LEVEL 1 UNDERGROUND PLUMBING PLAN FOR CONTINUATION.
2. 4"W RISER FROM SECOND FLOOR FIXTURES, PROVIDE WITH MANHOLE CLEANOUT IN WENS ROOM TO 1ST.
3. 3"W TO MAIN (E=+24.75" B.F.F.), SEE CIVIL PLANS FOR CONTINUATION.
4. 4"W TO MAIN (E=+44.75" B.F.F.), SEE CIVIL PLANS FOR CONTINUATION.
5. 3"W UP TO RISER. SEE SHEET M.A.17 FOR CONTINUATION.
6. SEE CIVIL PLANS FOR CONTINUATION.
GENERAL NOTES
1. ALL HVAC SYSTEMS SHALL BE EQUIPPED WITH CONTROLS CAPABLE OF SETBACK OR EQUIPMENT SHUTDOWNS AND SHALL COMPLY WITH THE REQUIREMENTS OF M. S. E. C. CHAP 2 AND 3.4.3.2.
2. AIR STREETS AND VENTS FOR UNITS WITH HEATING AND COOLING SHALL HAVE A MINIMUM 5 FT DEADBAND CAPABILITY.
3. COMMISSIONING OF SYSTEMS TO COMPLY WITH M. S. E. C. SECTION 4.3.2.
4. ALL DUCTS TO COMPLY WITH M. S. E. C. SECTIONS 4.3.2.5.2 AND 4.3.2.4.
5. DUCT WORK SHOWN OFFSET FOR CLARITY; ROUTE DUCT WORK AS CLOSE TO PLUMBS AS BUILDING DESIGNER DEEMS APPROPRIATE.
6. ALL EXPOSED DUCT TO BE ALUMINUM SPIRAL, WITH NO EXPOSED SEALANT. EXPOSED DUCT TO BE MACKED UP ON SITE, SHOWING A JOINT FOR ARCHITECT'S APPROVAL.

CONSTRUCTION NOTES
1) 12/14 DUCT UP TO EF-2.
2) DUCT UP TO BR-2.
3) DUCT UP TO EF-1.
4) DUCT RETURN AND SUPPLY UP MACH, CHASE TO BPC-1, PROVIDE WITH FIRE PROOF DUCT TO MATCH UNIT CONNECTIONS.
5) DUCT EXTRACT UP THROUGH ELEC. CLOSET TO LEVEL 2 CEILING SPACE. SEE LEVEL 2 MECH. HVAC PLAN FOR COORDINATION.
6) TRANSITION TO 24/22 SQUARE DUCT BETWEEN FIRST FLOOR AND SECOND FLOOR IN CHASE. PROVIDE PARTIAL FINISH RING FROM FIRST LEVEL CEILING TO CHASE.
7) EXHAUST DUCT FROM LEVEL 1 HVAC PLAN.
GENERAL CONTROL NOTES
1. ALL HVAC SYSTEMS SHALL BE EQUIPPED WITH CONTROLS CAPABLE OF DETECTING OR EQUIPMENT SHUTDOWN AND SHALL COMPLY WITH THE REQUIREMENTS OF W.S.E.C. C402.1.4.5.3.
2. ALL THERMOCOUPLES CONTROLLING ZONES WITH HEATING AND COOLING SHALL HAVE A MINIMUM BY-PRODUCT CAPABILITY.
3. COMMISSIONING OF SYSTEMS TO COMPLY WITH W.S.E.C. SECTION C402.
4. ALL DAMPERS TO COMPLY WITH W.S.E.C. SECTIONS C402.4.5.1 AND C403.2.4.4.

CONSTRUCTION NOTES
1. PROVIDE WITH MFR. RECOMMENDED CONDENSATE PUMP.
2. PIPE DOWN INSIDE WALL AND TERMINATE OUTSIDE WITH DOWN TURNED ELBOW 4" ABOVE ROOF.
CONSTRUCTION NOTES
1. SEE VENT THROUGH ROOF DETAIL ON SHEET M4.07.
2. SEE ROOFTOP UNIT INSTALLATION DETAIL ON SHEET M4.08.
3. SEE ROOFTOP EXHAUST FAN INSTALLATION DETAIL ON SHEET M4.09.

GENERAL NOTES
1. PROVIDE UNITS WITH MANUFACTURER REQUIRED MAINTENANCE CLEARANCES.
2. ALL EXHAUST OUTLETS TO BE MIN 10" 0" FROM BUILDING EQUIPMENT INTAKES/OEPNINGS.
**MISCELLANEOUS CONTROLS**

A. GENERAL: PROVIDE AND INSTALL ALL NECESSARY DEVICES, RELAYS, SWITCHES, SENSORS, DAMPERS, CONDUIT, AND WIRING TO PROVIDE A COMPLETE AND OPERATING STAND ALONE CONTROL SYSTEM.

B. FIRE ALARM SYSTEM SHUTDOWN:
1. PROVIDE NECESSARY CONDUIT, WIRING, AND ACCESSORIES TO SHUTDOWN EACH UNIT UPON ACTIVATION OF THE UNIT'S SMOKE DETECTORS (SMOKE DETECTORS WITH SPOT AREA BY DIVISION 1.4. CONNECTIONS SHALL BE HARDWIRED, INDEPENDENT OF ANY CONTROL SYSTEM LOOP, SO THAT FAILURE OF CONTROL SYSTEM OR LOSS OF CONTROL SYSTEM WILL IN NO WAY PREVENT THE ALARMED SMOKE DETECTORS SHUTDOWN OF THE SYSTEM. IN ADDITION TO SHUTTING DOWN THE UNIT WITH THE ALARMED SMOKE DETECTOR.

C. INTERLOCKS: PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING AND PROGRAMMING FOR INTERLOCK OF EQUIPMENT AS SHOWN ON THE EQUIPMENT SCHEDULES.

D. WATER HEATERS: WATER HEATERS SHALL BE CONTROLLED BY THERMOSTAT PROVIDED WITH UNIT, SET FOR 120 DEGREES.

E. DOMESTIC HW REcirculation Pumps: Pumps shall be enabled to operate via a time clock. When enabled, pump shall be controlled in conjunction with a smoking alarm sensor at the hot water recirculation line. Water must fall to 5 degrees F below setpoint. Pump shall run when temperature returns to setpoint. Pump shall be off. Setpoint and differential shall be adjustable. Initial setpoint shall be 5 degrees less than associated water heater.

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**CONTROL LEGEND**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>THERMOSTAT (TSIK)</td>
<td>20</td>
<td>ABOVE FINISHED FLOOR</td>
</tr>
<tr>
<td>2</td>
<td>TEMPERATURE SENSOR</td>
<td>21</td>
<td>BELOW FINISHED FLOOR</td>
</tr>
<tr>
<td>22</td>
<td>RETURN AIR</td>
<td>23</td>
<td>POOL/HEAT SOURCE</td>
</tr>
<tr>
<td>24</td>
<td>SUPPLY AIR</td>
<td>25</td>
<td>MECHANICAL CONTRACTOR</td>
</tr>
<tr>
<td>26</td>
<td>OUTSIDE AIR</td>
<td>27</td>
<td>ELECTRICAL CONTRACTOR</td>
</tr>
<tr>
<td>28</td>
<td>EXHAUST AIR</td>
<td>29</td>
<td>GENERAL CONTRACTOR</td>
</tr>
<tr>
<td>30</td>
<td>MOTORIZED DAMPER</td>
<td>31</td>
<td>CONTROL RELAY</td>
</tr>
<tr>
<td>32</td>
<td>CURRENT SENSOR</td>
<td>33</td>
<td>OCCUPANCY SENSOR</td>
</tr>
</tbody>
</table>

---

**SINGLE ZONE AIR TO AIR HEAT PUMPS**

1. A (W) IS AN ABBREVIATION THAT INDICATES THE PROCESSING UNIT IS AN AIR TO AIR HEAT PUMP, SINGLE ZONE AIR TO AIR HEAT PUMPS WORKING IN OPPOSITION.

2. EACH HEAT PUMP CONTROLLER IS CONTROLLED BY A DESIGNATED THERMOSTAT.

3. SPACE TEMPERATURE SENSORS ARE INSTALLED TO PROVIDE UNOCCUPIED OVERRIDE REQUEST AND SPACE TEMPERATURE SETPOINT ADJUSTMENTS AS REQUIRED.

4. MULTIPLE COMPRESSORS REQUIRE INDIVIDUAL START/STOPs AND STATUS.

---

**ECONOMIZER**

1. ECONOMIZER CONSISTS OF THE WASTE AIR DAMPER AND OUTSIDE AIR DAMPER WORKING IN OPPOSITION.

2. ECONOMIZER DAMPER SPRINGS ARE CLOSED AND MIXED AIR DAMPER SPRINGS ARE OPEN.

3. ECONOMIZER DAMPER SPRINGS ARE CLOSED AND MIXED AIR DAMPER SPRINGS ARE OPEN.

4. ECONOMIZER SELF-CLOSES AS FIRST STAGE OF COOLING TO MAINTAIN SPACE TEMPERATURE SETPOINT (VAR).

5. ECONOMIZER DAMPER POSITION WHEN OUTSIDE TEMPERATURE EXCEEDS RETURN AIR TEMPERATURE.

---

**Mechanical Heating**

1. COMPRESSOR IS OFF WHEN FAN STATUS IS OFF.

2. USE REVERSING VALUE AND COMPRESSOR FOR FIRST STAGE HEATING TO MAINTAIN SPACE TEMPERATURE SETPOINT.

3. USE ALARMACTIVE HEAT AS SECOND STAGE IF AVAILABLE.

4. USE DELAY TIMERS TO PREVENT SHORT CYCLING.

---

**Mechanical Cooling**

1. COMPRESSOR IS OFF WHEN FAN STATUS IS OFF.

2. USE REVERSING VALUE AND COMPRESSOR FOR SECOND STAGE COOLING TO MAINTAIN SPACE TEMPERATURE SETPOINT.

3. USE DELAY TIMERS TO PREVENT SHORT CYCLING.

---

**Temperature Setpoint**

1. SET HEATING MODE ACTIVATION TEMPERATURE AT 69 DEGREES F (VAR).

2. SET COOLING MODE ACTIVATION TEMPERATURE AT 74 DEGREES F (VAR).

3. SUPPLY AIR TO MAIN IS BETWEEN 50 DEGREES F AND 80 DEGREES F (VAR). LOW LIMIT FOR SUPPLY TEMPERATURE IN HEATING OR DEHUMID MODE IS 70F (VAR)

---

**Space**

1. **DIMENSIONS**

   - W: 552.0
   - H: 34.0

2. **DIAGRAM**

   - **INTERLOCKED EXHAUST FAN CONTROL SEQUENCE**
     1. DAMPER AND EXHAUST FAN SHALL BE INTERLOCKED WITH THE AHU SO THAT WHEN THE AHU IS IN OPERATION, SO IS THE EXHAUST FAN; DAMPERS SHALL BE FULLY OPEN BEFORE FANS START.
<table>
<thead>
<tr>
<th>FIRE PROTECTION LEGEND</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYMBOL</td>
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<table>
<thead>
<tr>
<th>MINIMUM FIRE PROTECTION DESIGN CRITERIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROOM NAME</td>
</tr>
<tr>
<td>FOREMAN OFFICE, BRK ROOMS</td>
</tr>
<tr>
<td>MEN'S RESTROOM, STAIRS</td>
</tr>
<tr>
<td>WOMEN'S RESTROOM, TOILETS</td>
</tr>
<tr>
<td>SUPERINTENDENT, OFFICE, LINENS</td>
</tr>
<tr>
<td>CORRIDOR, WORKER'S LOUNGE</td>
</tr>
<tr>
<td>KITCHENETTE</td>
</tr>
<tr>
<td>JANITOR'S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SYSTEM MODIFICATIONS THAT ARE REQUIRED TO BE PERFORMED ON THE MINIMUM REMOTE AREA SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER OF MODIFICATION</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

FLOW TEST INFORMATION

BASE HYDRAULIC CALCULATIONS FOR THE BID ON A FLOW TEST PERFORMED ON OCTOBER 15TH, 1982, IN THE CITY OF TACOMA WATER DEPARTMENT. AFTER AWARD OF THE PROJECT, THE CONTRACTOR SHALL VERIFY AVAILABILITY OF WATER SUPPLY WITH A FLOW TEST PERFORMED WITHIN SIX MONTHS OF BID DATE. SEE PROJECT SPECIFICATIONS FOR MORE DETAIL.

TEST HYDRANT

| STATIC PRESSURE | 80 F.S.I. |
| RESIDUAL PRESSURE | 75 F.S.I. |
| RESIDUAL FLOW | 4,375 G.P.M. |

FLOWING HYDRANT

<table>
<thead>
<tr>
<th>PORT #</th>
<th>FLOW D.P.S.I.</th>
<th>FLOW G.P.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT #1</td>
<td>485 D.P.S.I.</td>
<td>1,160 G.P.M.</td>
</tr>
<tr>
<td>PORT #2</td>
<td>485 D.P.S.I.</td>
<td>1,160 G.P.M.</td>
</tr>
</tbody>
</table>

TOTAL FLOW, 3,375 G.P.M.

STRAIGHT-THROUGH Meters WERE USED ON ALL PORTS WITH AN INTERNAL DIAMETER OF 2 1/2" AND A COEFFICIENT OF 1.00.

TEST HYDRANT ELEVATION: APPROXIMATELY 45 FEET AND OBTAINED FROM GOOGLE EARTH.

TEST HYDRANT IS LOCATED AT THE INTERSECTION OF VACATED-ADDITION WAY AND PORT OF TACOMA ROAD.

FLOW HYDRANTS ARE LOCATED AT THE INTERSECTION OF 14TH STREET EAST AND PORT OF TACOMA ROAD.

TEST INFORMATION PROVIDED BY THE CITY OF TACOMA WATER DEPARTMENT.
FLOOR PLAN SPECIAL NOTES

1. The contractor shall review all architectural drawings to determine if the installation work is to be "performed." The contractor shall have the necessary accommodations on the submittal drawings to conform with the architect's "thinking plan.

2. The contractor is responsible for making all elevation and horizontal adjustments in the PIPING required to follow the building structure, ceiling heights, and architectural finishes. The contract documents are conceptual in nature and show the proposed PIPING routing, but do not include all required fittings or offsets that allow the PIPING to be installed as shown on the contract documents.

3. The only Kwik Bolt listed and approved for support in concrete or brick is Kwik Bolt Model KB-12. All other Kwik Bolts will not be allowed.

4. See the "General Fire Protection" specification section for definition of abbreviations used on the fire protection contract documents.

FLOOR PLAN GENERAL NOTES

1. Contractor shall coordinate all short term schedules with engineers prior to commencing work.

2. The contractor shall, time-wise, develop the configuration of the area being protected and shall layout the sprinkler heads to be installed.

3. All piping in finished areas shall be installed concealed above the ceiling space unless specifically noted otherwise. Any portion of the sprinkler system installed exposed that is not indicated on these documents shall be addressed in writing with sketches prior to the piping being fabricated or installed to the engineer to evaluate.

4. The fire protection system piping shall be installed as tight to structure as possible and shall be minimized against excessive movement for project specifications.

5. All sprinkler branch lines shall be restrained against excessive movement for project specifications.

6. All sprinkler branch lines that allow the sprinkler head to move more than 1 ft from the standard position or to continue to oscillate back and forth without readily clearing shall be restrained against excessive movement for project specifications.

7. All sprinkler heads shall be restrained against excessive movement for project specifications.

8. All sprinkler heads shall be restrained against excessive movement for project specifications.

9. All sprinkler heads shall be restrained against excessive movement for project specifications.
FIRE ALARM LEGEND

FIRE ALARM SYSTEM PLAN GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, INSTALLATION LABOR, AND DESIGN FOR A COMPLETE INTELLEGENT ADDRESSABLE DIGITAL LOW VOLTAGE SYSTEM, AND FULLY OPERATIONAL FIRE ALARM SYSTEM. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENCY MANUFACTURERED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SERIAL NUMBER. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72), AND THE LAWS AND REGULATIONS OF WASHINGTON STATE AND THE LOCAL AUTHORITY HAVING JURISDICTION.

2. BOB SHALL INCLUDE ALL CORE DRILLING REQUIRED TO FACILATE ALL CONDUIT WORK. CORE DRILLED HOLES SHALL NOT PREDOMINATE THROUGH ANY STRUCTURALメンバー, MEMBER, OR CONDUIT CONTAINED WITHIN THE CONCRETE SLABS AND WALLS THAT COULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING. CORE DRILLED LOCATIONS MAY NEED TO BE ADJUSTED TO ACCOMMODATE OBSTRUCTIONS.

3. THE FIRE ALARM SYSTEM SHALL BE REQUIRED TO PASS THE MINIMUM SOUND LEVEL TESTING REQUIREMENTS DETERMINED IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE ALARMING CAPABILITY (ALARM OR GRABBER) ON THE LOCATION OR ADJUST THE LOCATION OR ADJUST THE "TELEFON" UNIT, THE MINIMUM LEVELS ARE OBTAINED.

4. EACH SATELLITE FIRE ALARM SYSTEM SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.

5. POST INDICATING DEVICE (FIRE) TAMPER SWITCH MONITORING IS REQUIRED, SEE DRAWINGS FOR LOCATIONS.

6. ALL MANUAL SATELLITE STATIONS SHALL BE DUAL ACTION KEY OPERABLE. THE USE OF BREAK GLASS FRONT STATIONS ARE NOT ALLOWED.

7. THE BASIS FOR THE VISUAL NOTIFICATION APPARATUS (STROBE) PLACEMENT IS THE UTILIZATION OF THE CANDLES (NC) AT A 45 X 45 X 45 X 45 FOR SPACING FOR CEBERS IDENTIFIED VISUAL APPLIANCES AND 45 X 45 X 45 FOR SPACING FOR BUILT-IN VISUAL APPLIANCES. IF THE CONTRACTOR DESIRES TO INSTALL LOWER OUTPUT VISUAL APPLIANCES, IT BECOMES THE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE MINIMUM CANDLES (NC) RATING AT THE LISTED MAXIMUM ROOM SIZE IDENTIFIED IN TABLE 10.1.5.1A FOR BUILDING IDENTIFIED VISUAL APPLIANCES ON TABLE 15.5.1.5A FOR BUILT-IN VISUAL APPLIANCES IN THE 2016 EDITION OF NFPA 72.

8. PROVIDE CLOSE CIRCUIT AND LABELING AND CIRCUIT FOR PANELS AND ALARMS AND OR (MISSING BY THIS CONTRACT)

9. ALL ADDRESSABLE DEVICES ARE TO BE PERMANENTLY AND CLEARLY LABELED WITH THE DEVICE ADDRESSES IN A READABLE EASILY VISIBLE LOCATION DIRECTLY ON THE DEVICE AND ON THE DETECTOR BASE.

10. WHERE DUCT SMOKE DETECTOR LIGHT EMITTING DIODES (LEDS) ARE NOT VISIBLE FROM THE FIRE, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL LIGHT UNIT ON THE FIRE SYSTEM AND USE THE DUTY LIGHTING DUTY AND REMOTE TEST SWITCH THAT IS VISIBLE FROM THE FIRE.

11. PROVIDE ALL NECESSARY EQUIPMENT, INTERFACES, OTHER APPURTENANCES, AND PROGRAMMING AS REQUIRED FOR COMMUNICATION TO THE EXISTING CENTRAL MONITORING COMPANY.

FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS:

1. FIRE ALARMS:

1.1. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM IS PROVIDED WITH A MINIMUM OF 20 HOURS OF STAND-BY OPERATION FOLLOWED BY AN ADDITIONAL 2,500 HOURS OF ALARM OPERATION (ALL BATTERIES ARE TO BE INDERT). TO PROVIDE AT LEAST 2% ADDITIONAL SPARE CAPACITANCE. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1.2. FIRE ALARM SYSTEM CONTROL PANEL, EACH AREA MAY INCLUDE INTRUDER POWER SUPPLY (FIRE ALARM SYSTEM POWER SUPPLY PROVIDE 35% FOR RECHARGING ONLY, PROVIDE THE ADDITIONAL QUANTITY OF POWER SUPPLIES AS REQUIRED FOR A COMPLETE INDIVIDUAL SYSTEM FUNCTIONAL.

1.3. PROVIDE 1% SPARE CAPACITY FOR NOTIFICATION POWER SUPPLIES, NOTIFICATION APPLIANCES, AND INITIATING DEVICE UNIT.

1.4. PROVIDE SMOKE PROTECTION ON ALL INCOMING PRIMARY POWER SUPPLIES SERVING FIRE ALARM SYSTEM PANELS.

1.5. PROVIDE AUDIO AMPLIFIERS, SWITCHES, AND OTHER APPURTENANCES, AS REQUIRED.

1.6. PROVIDE BATTERY CALCULATIONS FOR THE FIRE ALARM SYSTEM.

FIRE ALARM SYSTEM CABLING AND CONDUIT REQUIREMENTS:

1. ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE CLASSIFIED WIRING.

2. ALL SHIELDING AND INITIATING DEVICE CIRCUITS SHALL BE MINIMUM OF 6 GAUGE.

3. ALL WIRE RING-diARMING DOCMENT IS REQUIRED FOR THEIR INSTALLATIONS.

4. ALL WIRE TERMINATIONS SHALL BE BY WIRE TIES OR BT STRIP TYPE TERMINAL BLOCKS.

5. THE USE OF PREGO CONNECTORS, CONNECTORS OF WIRE. ECT. SHALL NOT BE ALLOWED IN BOXES, TERMINAL CABINETS, OR ENCLOSURES.

6. ALL WIRES OUTSIDE OF BOXES, TERMINAL CABINETS, OR ENCLOSURES SHALL BE FREE OF SPACES.

7. FIRE ALARM CABLES INSTALLED ABOVE CEILINGS, SHALL BE ABLE TO BE INSTALLED AS OPEN CABLING PROVIDE "F" RING-HANDER FOR ALL OPEN CABLING, AT A MINIMUM OF 2" OR 3" CONC

8. CONDUITS SHALL NOT EXCEED FILL RATING OF 40% AS DEFINED BY THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70).

9. CABLING INSTALLED IN WAREHOUSES, CABLING IS INSTALLED IN A WAREHOUSES TO BE SUBJECT TO DAMAGE. CABLING THAT IS INSTALLED ABOVE WAREHOUSES IS SCALED TO BE INSTALLED IN CONDUIT. CABLING INSTALLED TO BE VIEWED SHALL BE INSTALLED IN WAREHOUSES. SURFACE RACEWAY.

10. ALL CONDUIT SHALL BE INSTALLED IN PARALLELS, OR PERPENDICULAR PARALLEL OR CID TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL GUIDE ROUTINES.

11. WHERE DESIGNED TO VIEW THE FINISHED BOXES, PIXEL CONDUIT, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.

12. COMMUTATING PASSING THROUGH BUILDING CONSTRUCTION EXPANSION JUNCTION BOXES SHALL MAKE JUNCTION BOXES AT EACH SIDE OF THE HALL EXPANSION CONJT BOXES'S CENTER OF EXISTING STRUCTURE BETWEEN JUNCTION BOXES. PROVIDE MOUNTING BRACKETS W/grid MOUNTING CABLE TO MANAGE CONTRACTION BETWEEN JUNCTION BOXES.

13. ALL SURFACE MOUNTED BOXES SHALL BE WIREMOLD OR SIMILAR INSTALLATION ON ELECTRICAL METALLIC TUBING MATINEE. ARE NOT TO BE ALLOWED.

14. ALL NEW FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PRINTED RED AND ANNOTATED "Y" ON THE COVER IN BLACK BOLD PRINT HAVING MINIMUM CHARACTER FON SIZE 2" TALL X 1" HIGH.
FIRE ALARM SYSTEM RISER DIAGRAM

CONSTRUCTION NOTES

1. The fire alarm system shall be fully functional without the use of primary power. The fire alarm system shall be provided with a minimum of 12 hours of standby operation following an additional 60 minutes of alarm operation. All batteries shall be sized to provide at least 24 additional hours. See the specifications for additional information.

2. Provide all necessary equipment, interfaces, other appurtenances and programming as required for communication to the monitoring station.

3. All wire run underground shall be suitable for "M" style installations.

4. Provide system power supplies, where required.

5. Fire sprinkler system switches should be wired and connected to the fire alarm system. See the fire sprinkler system drawings for exact quantities and locations of all fire sprinkler switches, which shall be monitored by the fire alarm system.

6. The 24 volts D C. sprinkler system alarm bell (electric bell) shall be activated upon the failure of an actuator by the water flow switch and/or pressure switch alarm and powered by the fire alarm system control panel. Allowing the alarm bell to be on battery backup.

7. Provide system cables for a fully functional system. As required.

8. The riser diagram is diagrammatic in nature. It does not show all devices and does not represent actual conduit or cable routing.

9. Provide alarm system remote annunciator panel installed at break room 100 entry.

10. The fire alarm system contractor shall install 1/2" metal conduit from termination of 1/2" P VC conduit up to the post indicating valve.
## Electrical Legend

<table>
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<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>![Lighting symbol]</td>
<td>Surface or pendant mount light fixture (circle indicates recessed or concealed junction box)</td>
</tr>
<tr>
<td>![Lighting symbol]</td>
<td>Wall mounted light fixture</td>
</tr>
<tr>
<td>![Lighting symbol]</td>
<td>Surface or pendant mount strip light (circle indicates recessed or concealed junction box)</td>
</tr>
<tr>
<td>![Lighting symbol]</td>
<td>Egress fixture with UL 924 90 minutes emergency battery pack. Provide unswitched hot leg.</td>
</tr>
<tr>
<td>![Lighting symbol]</td>
<td>Wall mounted exit light fixture (provide direction arrows as indicated) Provide unswitched hot leg.</td>
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</tbody>
</table>

### Switches

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<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>![Switch symbol]</td>
<td>Single pole switch</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Combination switch / dual technology vacancy sensor</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Combination switch / dual technology occupancy sensor</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Three way switch</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Four way switch</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Multi-ganged switch (lower case letters indicates switching)</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Momentary contact switch for low voltage control, panel</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Momentary contact switch for ceiling mounted vacancy sensor</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Room controller low voltage control switch (number indicates quantity of switch buttons) See sheet E3.01 for lighting control detail.</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Room controller vacancy sensor control. See sheet E3.01 for lighting control detail.</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Room controller photosensor control. See sheet E3.01 for lighting control detail.</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Ceiling mounted vacancy sensor</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Ceiling mounted occupancy sensor</td>
</tr>
<tr>
<td>![Switch symbol]</td>
<td>Standalone daylight harvesting photosensor. See sheet E3.01 for lighting control detail.</td>
</tr>
</tbody>
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### Miscellaneous

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<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tr>
<td>![Miscellaneous symbol]</td>
<td>Construction notes</td>
</tr>
<tr>
<td>![Miscellaneous symbol]</td>
<td>Indicates weatherproof for all devices. Provide locking cover on receptacles.</td>
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<tr>
<td>![Miscellaneous symbol]</td>
<td>Mechanical equipment connection</td>
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### Telecommunications

<table>
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<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>![Telecommunications symbol]</td>
<td>Communication / data outlet - wall mount with (a) data ports and (b) cat5 cables (a,5/box with single gang opening and cover plate). (1) to accessible ceiling space, mount at +18&quot; A.F.F. unless noted otherwise. (c) indicates mounted above counter.</td>
</tr>
<tr>
<td>![Telecommunications symbol]</td>
<td>Telephone outlet - wall mount with (1) data port and (1) cat5 cable/box with single gang opening and cover plate) with one (1) 1&quot; conduit to accessible ceiling space, mount at +18&quot; A.F.F. unless noted otherwise.</td>
</tr>
<tr>
<td>![Telecommunications symbol]</td>
<td>Telephone outlet - wall mount with (2) data ports and (2) cat5 cables (1) two port block with 25&quot; service loop above accessible ceiling space. One location with owner's IT department.</td>
</tr>
<tr>
<td>![Telecommunications symbol]</td>
<td>exterior wall mounted, cctv camera (rough in only) - (1) 1&quot; conduit to accessible ceiling space, (2) data ports and (2) cat5 cables (1) two port block with 25&quot; service loop, coordinate exact location with owner's IT department.</td>
</tr>
<tr>
<td>![Telecommunications symbol]</td>
<td>interior ceiling mounted, cctv camera (rough in only) - provide (2) data ports and (2) cat5 cables (1) two port block with 25&quot; service loop above accessible ceiling space, coordinate exact location with owner's IT department.</td>
</tr>
<tr>
<td>![Telecommunications symbol]</td>
<td>Radio antenna - (rough in only) (4,5/box with single gang opening and cover plate) with one (1) 1&quot; conduit with full string to (1) room only, mount at +18&quot; A.F.F. unless noted otherwise.</td>
</tr>
</tbody>
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**E001**

**Exterior Elevation**

**Building: Marine Building**

**Electrical Plan**

**Per 4 PHASE 2**

**Building: Marine Building**

**Electrical Plan**
GENERAL NOTES
1. Conductors, wire size and wire hash marks are shown for circuit clarity but may not necessarily represent the complete wiring layout or sizes for connecting circuits shown. Include in the bid all required wiring sizes and number to install all circuits shown, for all circuit nominal, contractor can choose to upsized feeder size or provide separate conductors. See NEC Table 310.15(B.3.a).

2. Contractor to verify exact equipment locations, mounting heights and disconnect fuse size with mechanical drawings before rough-in.

3. 120V circuits over 120 feet in length and 277V circuits over 230 feet in length shall be #10 conductors.

4. Provide conduits and conductors as required, electrical contractor to have responsibility for sizing conduits and conductors.

5. Contractor shall provide any necessary equipment and devices for a complete and operational all electrical systems.

CONSTRUCTION NOTES
1. Provide ceiling mounted dedicated receptacle for future projector, coordinate exact location with the engineer.

2. 3) Microwaves built-in to casework, provide dedicated GFCI receptacles, coordinate mounting and exact location with casework installer and the engineer.

3. Provide 120V, 20A connection to hand dryers.

4. Provide receptacle at bottom left on rear side, coordinate exact location with data rack.

5. Provide receptacle for water cooler, coordinate exact receptacle location with mechanical contractor.

6. Provide dedicated receptacle for vending machine.

7. Provide dedicated receptacle for copy machine.

8. Manual transfer switch, disconnect switch, and emergency power receptacle location, see one line diagram on sheet 6E0.01 for additional information.

9. Circuit continues on 2nd floor.

10. Circuit continues on 1st floor.

11. Elevator shaft trip controls, coordinate exact location with elevator provider.

12. Provide connection to fire alarm control panel, coordinate exact location and requirement with fire alarm contractor.

13. Provide intermatic #ET18250CR, Astronomic Timeclock, lighting control panel, provide with nearest 39 enclosure, see sheet 6E.01 for lighting plan.

14. Field verify and coordinate exact conduit routing below window with structure.
GENERAL NOTES
1. CIRCUITS, WIRE SIZE AND WIRE HASH MARKS ARE SHOWN FOR CIRCUIT CLARITY BUT MAY NOT NECESSARILY REPRESENT THE COMPLETE WIRING COUNT OR SIZES FOR CONNECTING CIRCUITS SHOWN, INCLUDE IN THE BD ALL REQUIRED WIRING SETS AND NUMBER TO INSTALL ALL CIRCUITS SHOWN. PROVIDE UPSTREAM FEEDER SIZE OR PROVIDE SEPARATE CONDUITS. SEE NEC TABLE 510.15(B)(3)(a).
2. CONTRACTOR TO VERIFY EXACT EQUIPMENT LOCATIONS, MOUNTING HEIGHTS AND DISCONNECT FUSE SIZE WITH MECHANICAL DRAWINGS BEFORE ROUGH-IN.
3. 120V CIRCUITS OVER 120 FEET IN LENGTH AND 277V CIRCUITS OVER 230 FEET IN LENGTH SHALL BE #10 CONDUCTORS.
4. PROVIDE CONDUITS AND CONDUCTORS AS REQUIRED. CONTRACTOR TO HAVE RESPONSIBILITY FOR SIZING CONDUITS AND CONDUCTORS.
5. CONTRACTOR SHALL PROVIDE ANY NECESSARY EQUIPMENT AND DEVICES FOR A COMPLETE AND OPERATIONAL ALL ELECTRICAL SYSTEMS.

CONSTRUCTION NOTES
1. MOUNT EQUIPMENT RECEPTACLE ADJACENT TO THE MECHANICAL EQUIPMENT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. SURFACE MOUNT AND PROVIDE WATERPROOF CONDUIT AND FITTINGS.
CONSTRUCTION NOTES

1. PROVIDE 2"X3"X12" NEMA 4X ENCLOSURE ABOVE ROOF FOR RADIO ANTENA CABLEING. WALL MOUNT ON MECHANICAL EQUIPMENT SCREEN WALL.

2. PROVIDE (2) 4" CONDUIT FOR ANTENNA CABLEING.

ROOF SYSTEMS PLAN
TELECOMMUNICATIONS OUTLET LABEL IDENTIFICATION FORMAT

TYPICAL CAT6 HORIZONTAL CABLE LABELING

TYPICAL TELECOMMUNICATION OUTLET (ACCESSIBLE CEILING SPACE APPLICATIONS)

TELECOMMUNICATIONS OUTLET - CONSTRUCTION NOTES (DETAILED 1 THROUGH 5)

1. SEE SECTION 27 2000 FOR TELECOMMUNICATIONS OUTLET TYPE, STYLE, AND COLOR.

2. THE CATS DATA PORT COMPUTER SYMBOLS, PORT ICON COLOR SHALL BE THE SAME COLOR AS THE JACK. SEE SECTION 27 2000 FOR THE MODULAR PORT COLOR.

3. PROVIDE (2) CATS CABLE FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATIONS ROOM, UNLESS OTHERWISE NOTED. PROVIDE THE CATS CABLE COLOR AS SPECIFIED IN SECTION 27 2000.

4. PROVIDE A 25 FOOT SERVCE LOOP IN THE ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE NOTED.

5. PROVIDE (3) CATS CABLES FROM THE TELECOMMUNICATION OUTLET TO THE NEAREST TELECOMMUNICATIONS ROOM. PROVIDE THE CATS CABLE COLOR AS SPECIFIED IN SECTION 27 2000.
## Panel Notes - Panels E12

**Construction Notes**

Provide factory lockable circuit breaker box per NEC requirements. Each circuit breaker may occupy a 2-1/4" circuit breaker space. Adjust circuit numbering as required.