

THE INTENTION OF THIS SHEET IS TO SHOW THE REQUIREMENTS OF THE 2010 ADA DESIGN STANDARDS. BASED ON PROJECT LOCATION, STATE OR LOCAL ACCESSIBILITY CODES MAY ALSO APPLY TO THE PROJECT. IF THERE IS A DISCREPANCY BETWEEN THE FEDERAL, STATE, OR LOCAL CODE THEN THE STRICTER OF THE CODES SHALL BE ENFORCED IN THAT SITUATION.

THE COMPLETE FEDERAL AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES CAN BE FOUND AT: http://www.access-board.gov/ada-aba/final.pdf

1. IF THE REQUIREMENTS OF THIS SHEET CANNOT BE ACHIEVED FOR ANY REASON THEN THE G.C. SHOULD NOTIFY THE ARCHITECT IMMEDIATELY.

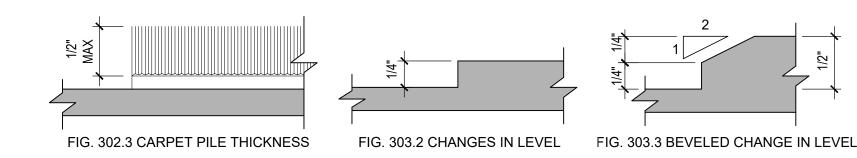
302 FLOOR OR GROUND SURFACES AND 303 CHANGES IN LEVEL

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be ½ " max. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

303.2 Vertical. Changes in level of ½ " high max shall be permitted to be vertical. 303.3 Beveled. Changes in level between ½" high min and ½" high max shall be beveled with a slope not steeper than 1:2.

CARPET PILE THICKNESS & ACCESSIBLE ROUTE



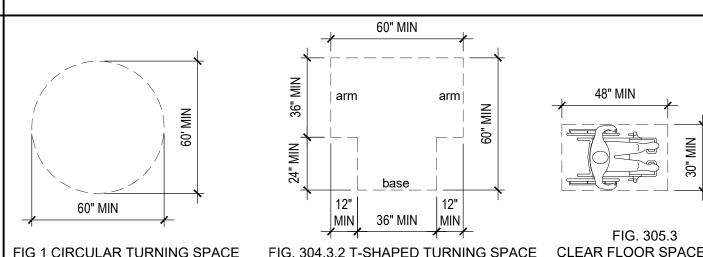
304 TURNING SPACE

304.2 Floor or Ground Surfaces. Floor or ground surfaces of a turning space shall comply with 302. Changes in level are not EXCEPTION: Slopes not steeper than 1:48 shall be

304.3.1 Circular Space. The turning space shall be a space of 60" diameter min. The space shall be permitted to include knee and toe clearance complying with 306. 304.3.2 T-Shaped Space. The turning space shall be a T-shaped

space within a 60" square min with arms and base 36" wide min. Each arm of the T shall be clear of obstructions 12" min. in each direction and the base shall be clear of obstructions 24" min. in each direction. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or 1 arm.

TURNING SPACE AND CLEAR FLOOR SPACE



305 CLEAR FLOOR OR GROUND SPACE

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30" min by 48" min.

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306. 305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

306 KNEE AND TOE CLEARANCE

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

306.2.2 Max Depth. Toe clearance shall extend 25" max under an element. 306.2.3 min Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17" min under the element 306.2.4 Additional Clearance. Space extending greater than 6" beyond the available knee clearance at 9" above the finish floor or ground

shall not be considered toe clearance. 306.2.5 Width. Toe clearance shall be 30" wide min. 306.3 Knee Clearance. 306.3.1 General. Space under an element between 9" and 27" above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Max Depth. Knee clearance shall extend 25" max under an element at 9" above the finish floor or ground. 306.3.3 min Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11" deep min at 9" above the finish floor or ground, and 8" deep min at 27" above the finish floor or ground. 306.3.4 Clearance Reduction. Between 9" and 27" above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1" in depth for each 6" in height.

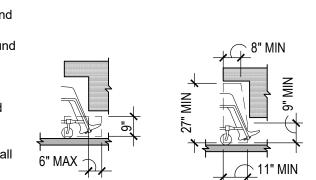


FIG. 306.2(a) TOE FIG. 306.3(a) KNEE

CLEARANCE

CLEARANCE

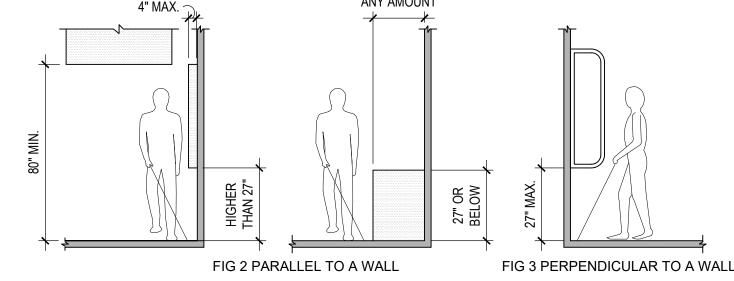
307 PROTRUDING OBJECTS

307.2 Protrusion Limits. Objects with leading edges more than 27" and not more than 80" above the finish floor or ground shall protrude 4" max horizontally into the

306.3.5 Width. Knee clearance shall be 30" wide min.

307.4 Vertical Clearance. Vertical clearance shall be 80" high min. Guardrails or other barriers shall be provided where the vertical clearance is less than 80" high. The leading edge of such guardrail or barrier shall be located 27" max above the finish floor or ground.

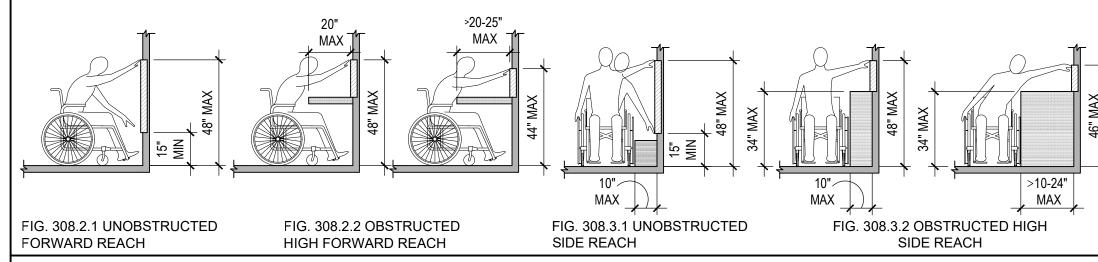
307.5 Required Clear Width. Protruding objects shall not reduce the clear width required for accessible routes.



308 REACH RANGES

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" max and the low forward reach shall be 15" min above the finish floor or ground. 308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" max where the reach depth is 20" max. Where the reach depth exceeds 20", the high forward reach shall be 44" max and the

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" max and the low side reach shall be 15" min above the finish floor or ground. 308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34" max and the depth of the obstruction shall be 24" max. The high side reach shall be 48" max for a reach depth of 10" max. Where the reach depth exceeds 10", the high side reach shall be 46" max for a reach depth of 24" max.



309 OPERABLE PARTS

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided. 309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

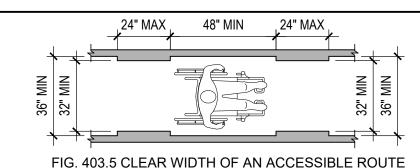
309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5

403 WALKING SURFACES

403.4 Changes in Level. Changes in level shall comply with 303.

103.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302. 403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48. 403.4 Changes in Level. Changes in level shall comply with 303. 403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302. 403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.5 CLEAR WIDTH OF AN ACCESSIBLE ROUTE



404 DOORS

104.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4. 404.2.3 Clear Width. Door openings shall provide a clear width of 32" min. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24" deep shall provide a clear opening of 36" min. There shall be no projections into the required clear opening width lower than 34" above the finish floor or ground. Projections into the clear opening width between 34" and 80" above the finish floor or ground shall not exceed 4". 104.2.4 Maneuvering Clearances. min maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway

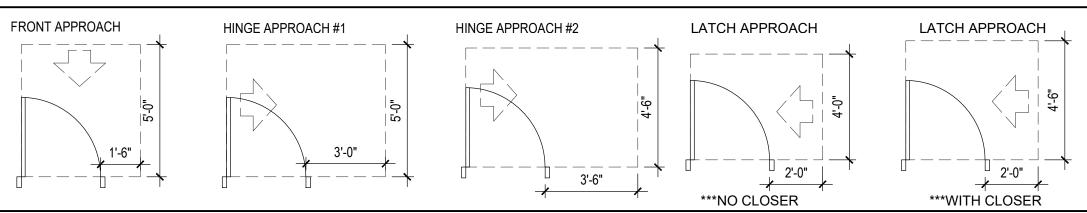
and the required latch side or hinge side clearance. 404.2.5 Thresholds. Thresholds, if provided at doorways, shall be ½ " high max. Raised thresholds and changes in level at doorways shall comply with 302 and 303. 404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48" min plus the width of doors or gates

swinging into the space. 404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34" min and 48" max above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides. 404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds min.

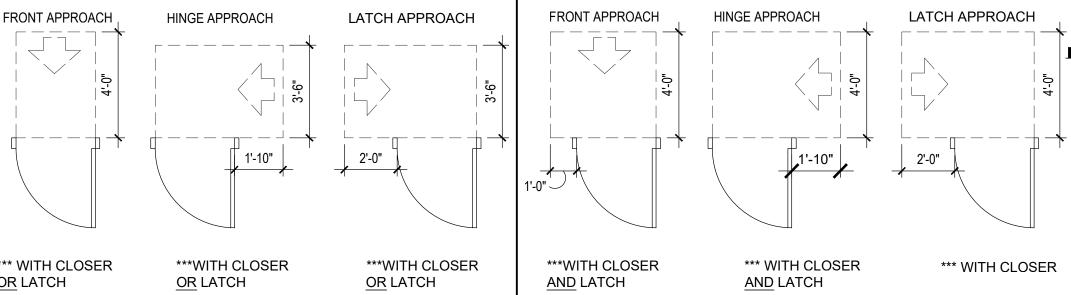
104.2.9 Door/ Gate Opening Force. Fire doors shall have a min opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door/gate other than fire doors shall be as follows: Interior hinged doors and gates: 5 pounds max. Sliding or folding doors: 5 pounds max.

CLEAR DOOR WIDTH DOORS AND GATES IN SERIES FIG. 404.2.3(a) CLEAR WIDTH FIG. 404.2.6 DOORS IN SERIES AND GATES IN SERIES

404.2.4 PULL SIDE MANEUVERING CLEARANCES AT DOOR



404.2.4 PUSH SIDE MANEUVERING CLEARANCES AT DOOR

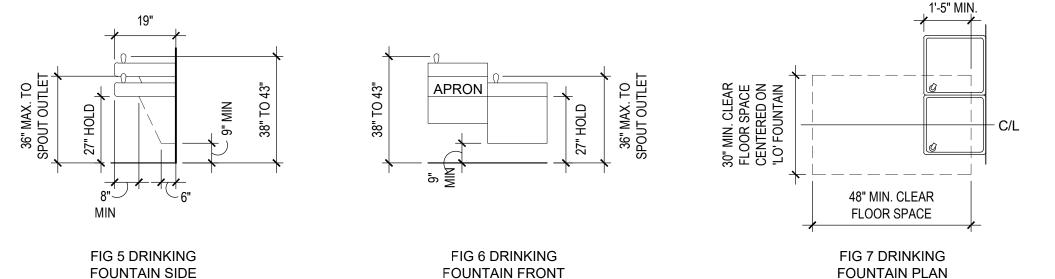


602 DRINKING FOUNTAINS

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided. 602.3 Operable Parts. Operable parts shall comply with 309. 602.4 Spout Height. Spout outlets shall be 36" max above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15" min from the vertical support and 5" max from the front edge of the unit, including bumpers. 602.6 Water Flow. The spout shall provide a flow of water 4" high min and shall be located 5" max from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3" of the front of the unit, the angle of the water stream shall be 30 degrees max. Where spouts are located between 3" and 5" max from the front of the unit, the angle of the water stream shall be 15 degrees max.

02.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38" min and 43" max above the finish floor or ground.



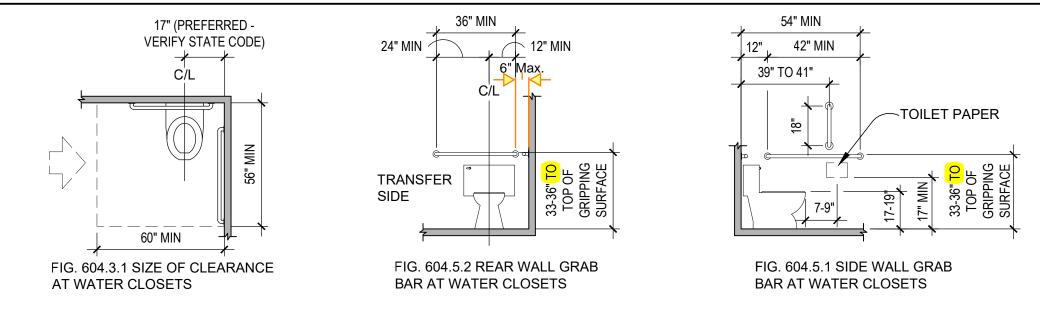
604 WATER CLOSETS

04.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16" min to 18" max from the side wall. Water closets shall be arranged for a left-hand or right-hand approach. 604.3.1 Size. Clearance around a water closet shall be 60" min measured perpendicular from the side wall and 56" min measured perpendicular from the rear wall.

shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet 504.4 Seats. The seat height of a water closet above the finish floor shall be 17" min and 19" max measured to the top of the seat. Seats shall not be sprung to return to a lifted position. 604.5.1 Side Wall. The side wall grab bar shall be 42" long min, located 12" max from the rear wall and extending 54" min from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36" long min and extend from the centerline of the water closet 12" min on one side and 24" min on the other side. 604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet 604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7" min and 9" max in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15" min and 48" max above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow

604 WATER CLOSETS

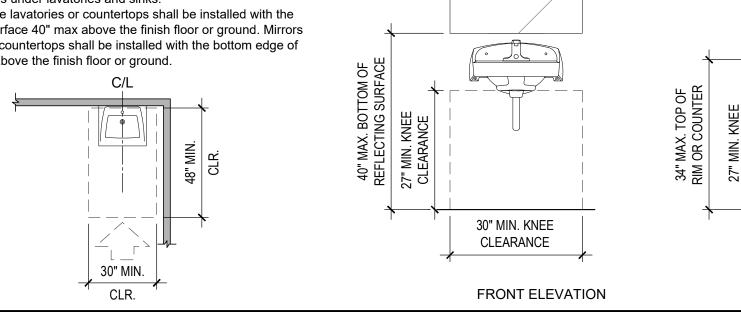


606 LAVATORIES AND MIRRORS

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided. 606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34" max above the finish floor or ground. 606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering

faucets shall remain open for 10 seconds min. 606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks. 603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40" max above the finish floor or ground. Mirrors

not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35" max above the finish floor or ground.



MIRROR-

609 GRAB BARS

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 11/4" min and 2" max. 609.3 Spacing. The space between the wall and the grab bar shall be 1½". The space between the grab bar and projecting objects below and at the ends shall be 1½ min. The space between the grab bar and projecting objects above shall be 12" min.

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33" min and 36" max above the finish floor measured to the top of the gripping surface. 609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges. 609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space. 609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the grab bar, fastener,

mounting device, or supporting structure.

703 SIGNS

B.O. TACTILE

'03.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided 703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32" min above their background. 703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent min and 110 percent max of the height of the uppercase letter "I". 703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8" min and 2" max based on the height of the uppercase letter "I". EXCEPTION: Where separate raised and visual characters with the same information are provided, raised character height shall be permitted to be 1/2" min. 703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent max of the height of the character. 703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have

rectangular cross sections, spacing between individual raised characters shall be 1/8" min and 4 times the raised character stroke width max. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch min and 4 times the raised character stroke width max at the base of the cross sections, and 1/8" min and 4 times the raised character stroke width max at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8" min.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent min and 170 percent max of the raised character height. 703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4. 703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used

before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms. 703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8" min from any other tactile characters and 3/8" min from raised borders and decorative elements.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4. 703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48" min above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60" max above the finish floor or ground surface, measured from the baseline of the highest tactile character 703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the

sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18" min by 18" min, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices. 703.5 Visual Characters. Visual characters shall comply with 703.5.

EXCEPTION: Where visual characters comply with 703.2 and are accompanied by braille complying with 703.3, they shall not be required to comply with 703.5.2 through 703.5.9. 703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background. 703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms. 703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent min and 110 percent max of the height of the uppercase letter "I". 703.5.5 Character Height. min character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40" min above the finish floor or ground. 703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent min and 30 percent max of the height of the character. 703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent min and 35 percent max of character height.

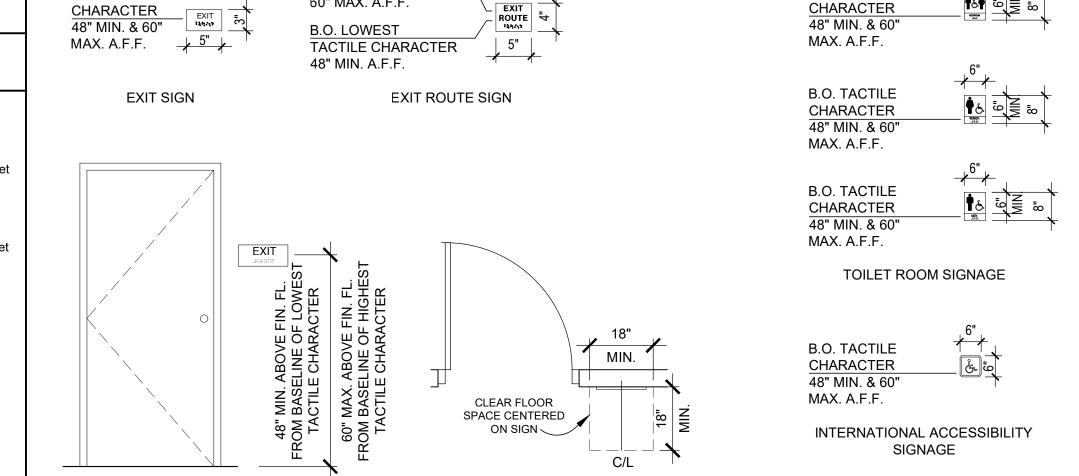
703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent min and 170 percent max of the character height. 703.6 Pictograms. Pictograms shall comply with 703.6. 703.6.1 Pictogram Field. Pictograms shall have a field height of 6" min. Characters and braille shall not be located in the pictogram field. 703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a

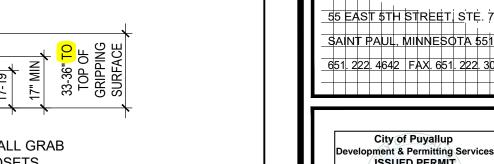
703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

B.O. HIGHEST

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.



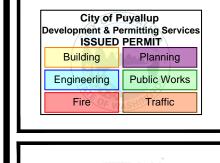


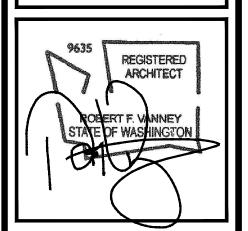
8" MIN. KNEE

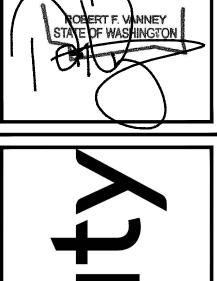
17" MIN DEPTH

SIDE ELEVATION

→ CLEARANCE

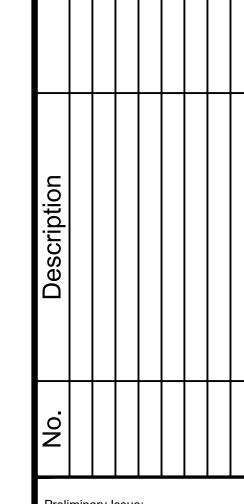








L MALL ERIDIAN AVE. 33

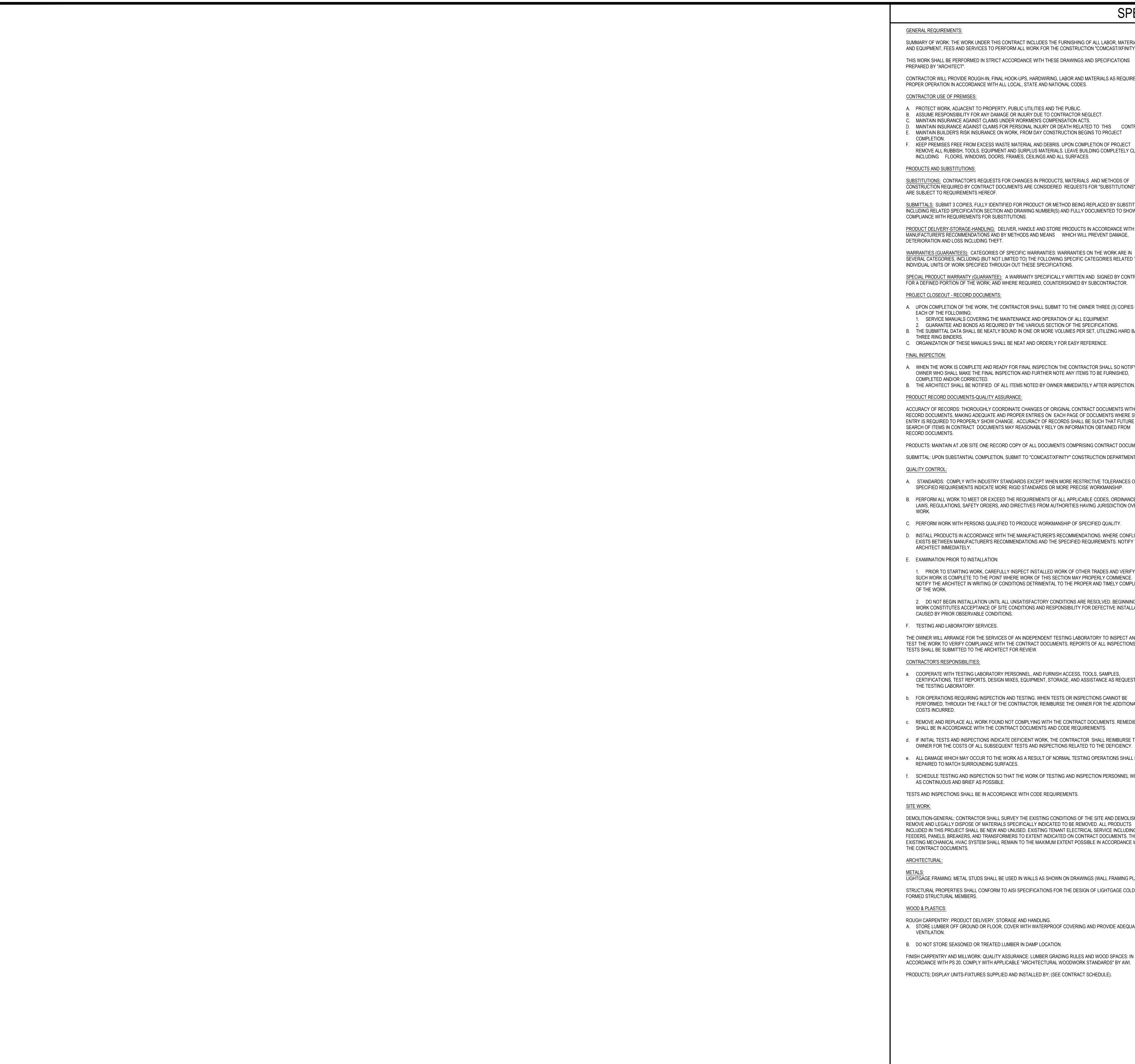


Preliminary Issue: 10/24/24 Bid Issue: 10/24/24 Landlord Issue: 10/24/24 Permit Issue: Construction Issue:

ACCESSIBILITY DETAILS

81-2294 Comm. Number 10/24/2024 Drawn By

A0.2



SPECIFICATIONS

GENERAL REQUIREMENTS:

SUMMARY OF WORK: THE WORK UNDER THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND EQUIPMENT, FEES AND SERVICES TO PERFORM ALL WORK FOR THE CONSTRUCTION "COMCAST/XFINITY".

THIS WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS PREPARED BY "ARCHITECT".

CONTRACTOR WILL PROVIDE ROUGH-IN, FINAL HOOK-UPS, HARDWIRING, LABOR AND MATERIALS AS REQUIRED FOR PROPER OPERATION IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES.

- A. PROTECT WORK, ADJACENT TO PROPERTY, PUBLIC UTILITIES AND THE PUBLIC. ASSUME RESPONSIBILITY FOR ANY DAMAGE OR INJURY DUE TO CONTRACTOR NEGLECT.
- MAINTAIN INSURANCE AGAINST CLAIMS UNDER WORKMEN'S COMPENSATION ACTS. MAINTAIN INSURANCE AGAINST CLAIMS FOR PERSONAL INJURY OR DEATH RELATED TO THIS CONTRACT.
- MAINTAIN BUILDER'S RISK INSURANCE ON WORK, FROM DAY CONSTRUCTION BEGINS TO PROJECT KEEP PREMISES FREE FROM EXCESS WASTE MATERIAL AND DEBRIS. UPON COMPLETION OF PROJECT
- REMOVE ALL RUBBISH, TOOLS, EQUIPMENT AND SURPLUS MATERIALS. LEAVE BUILDING COMPLETELY CLEAN, INCLUDING FLOORS, WINDOWS, DOORS, FRAMES, CEILINGS AND ALL SURFACES.

PRODUCTS AND SUBSTITUTIONS:

SUBSTITUTIONS: CONTRACTOR'S REQUESTS FOR CHANGES IN PRODUCTS, MATERIALS AND METHODS OF CONSTRUCTION REQUIRED BY CONTRACT DOCUMENTS ARE CONSIDERED REQUESTS FOR "SUBSTITUTIONS" AND ARE SUBJECT TO REQUIREMENTS HEREOF.

SUBMITTALS: SUBMIT 3 COPIES, FULLY IDENTIFIED FOR PRODUCT OR METHOD BEING REPLACED BY SUBSTITUTION. INCLUDING RELATED SPECIFICATION SECTION AND DRAWING NUMBER(S) AND FULLY DOCUMENTED TO SHOW COMPLIANCE WITH REQUIREMENTS FOR SUBSTITUTIONS.

PRODUCT DELIVERY-STORAGE-HANDLING: DELIVER, HANDLE AND STORE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND BY METHODS AND MEANS WHICH WILL PREVENT DAMAGE. DETERIORATION AND LOSS INCLUDING THEFT.

SEVERAL CATEGORIES, INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING SPECIFIC CATEGORIES RELATED TO INDIVIDUAL UNITS OF WORK SPECIFIED THROUGH OUT THESE SPECIFICATIONS.

SPECIAL PRODUCT WARRANTY (GUARANTEE): A WARRANTY SPECIFICALLY WRITTEN AND SIGNED BY CONTRACTOR FOR A DEFINED PORTION OF THE WORK; AND WHERE REQUIRED, COUNTERSIGNED BY SUBCONTRACTOR. PROJECT CLOSEOUT - RECORD DOCUMENTS:

- A. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SUBMIT TO THE OWNER THREE (3) COPIES OF EACH OF THE FOLLOWING:
- 1. SERVICE MANUALS COVERING THE MAINTENANCE AND OPERATION OF ALL EQUIPMENT. GUARANTEE AND BONDS AS REQUIRED BY THE VARIOUS SECTION OF THE SPECIFICATIONS. B. THE SUBMITTAL DATA SHALL BE NEATLY BOUND IN ONE OR MORE VOLUMES PER SET, UTILIZING HARD BACK
- THREE RING BINDERS. C. ORGANIZATION OF THESE MANUALS SHALL BE NEAT AND ORDERLY FOR EASY REFERENCE.

A. WHEN THE WORK IS COMPLETE AND READY FOR FINAL INSPECTION THE CONTRACTOR SHALL SO NOTIFY THE OWNER WHO SHALL MAKE THE FINAL INSPECTION AND FURTHER NOTE ANY ITEMS TO BE FURNISHED, COMPLETED AND/OR CORRECTED. B. THE ARCHITECT SHALL BE NOTIFIED OF ALL ITEMS NOTED BY OWNER IMMEDIATELY AFTER INSPECTION.

PRODUCT RECORD DOCUMENTS-QUALITY ASSURANCE:

ACCURACY OF RECORDS: THOROUGHLY COORDINATE CHANGES OF ORIGINAL CONTRACT DOCUMENTS WITHIN RECORD DOCUMENTS, MAKING ADEQUATE AND PROPER ENTRIES ON EACH PAGE OF DOCUMENTS WHERE SUCH ENTRY IS REQUIRED TO PROPERLY SHOW CHANGE. ACCURACY OF RECORDS SHALL BE SUCH THAT FUTURE SEARCH OF ITEMS IN CONTRACT DOCUMENTS MAY REASONABLY RELY ON INFORMATION OBTAINED FROM

PRODUCTS: MAINTAIN AT JOB SITE ONE RECORD COPY OF ALL DOCUMENTS COMPRISING CONTRACT DOCUMENTS. SUBMITTAL: UPON SUBSTANTIAL COMPLETION, SUBMIT TO "COMCAST/XFINITY" CONSTRUCTION DEPARTMENT

- A. STANDARDS: COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
- B. PERFORM ALL WORK TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES. LAWS, REGULATIONS, SAFETY ORDERS, AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION OVER THE
- C. PERFORM WORK WITH PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
- INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICT EXISTS BETWEEN MANUFACTURER'S RECOMMENDATIONS AND THE SPECIFIED REQUIREMENTS. NOTIFY THE
- E. EXAMINATION PRIOR TO INSTALLATION:
- 1. PRIOR TO STARTING WORK, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
- 2. DO NOT BEGIN INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF SITE CONDITIONS AND RESPONSIBILITY FOR DEFECTIVE INSTALLATION CAUSED BY PRIOR OBSERVABLE CONDITIONS.
- F. TESTING AND LABORATORY SERVICES.

THE OWNER WILL ARRANGE FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO INSPECT AND TEST THE WORK TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS. REPORTS OF ALL INSPECTIONS AND TESTS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.

CONTRACTOR'S RESPONSIBILITIES:

- a. COOPERATE WITH TESTING LABORATORY PERSONNEL, AND FURNISH ACCESS, TOOLS, SAMPLES, CERTIFICATIONS, TEST REPORTS, DESIGN MIXES, EQUIPMENT, STORAGE, AND ASSISTANCE AS REQUESTED BY
- b. FOR OPERATIONS REQUIRING INSPECTION AND TESTING. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED, THROUGH THE FAULT OF THE CONTRACTOR, REIMBURSE THE OWNER FOR THE ADDITIONAL COSTS INCURRED.
- REMOVE AND REPLACE ALL WORK FOUND NOT COMPLYING WITH THE CONTRACT DOCUMENTS. REMEDIES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CODE REQUIREMENTS.
- d. IF INITIAL TESTS AND INSPECTIONS INDICATE DEFICIENT WORK, THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR THE COSTS OF ALL SUBSEQUENT TESTS AND INSPECTIONS RELATED TO THE DEFICIENCY.
- e. ALL DAMAGE WHICH MAY OCCUR TO THE WORK AS A RESULT OF NORMAL TESTING OPERATIONS SHALL BE REPAIRED TO MATCH SURROUNDING SURFACES.
- f. SCHEDULE TESTING AND INSPECTION SO THAT THE WORK OF TESTING AND INSPECTION PERSONNEL WILL BE AS CONTINUOUS AND BRIEF AS POSSIBLE.

TESTS AND INSPECTIONS SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS.

DEMOLITION-GENERAL: CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS OF THE SITE AND DEMOLISH, REMOVE AND LEGALLY DISPOSE OF MATERIALS SPECIFICALLY INDICATED TO BE REMOVED. ALL PRODUCTS INCLUDED IN THIS PROJECT SHALL BE NEW AND UNUSED. EXISTING TENANT ELECTRICAL SERVICE INCLUDING: FEEDERS, PANELS, BREAKERS, AND TRANSFORMERS TO EXTENT INDICATED ON CONTRACT DOCUMENTS. THE EXISTING MECHANICAL HVAC SYSTEM SHALL REMAIN TO THE MAXIMUM EXTENT POSSIBLE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

LIGHTGAGE FRAMING: METAL STUDS SHALL BE USED IN WALLS AS SHOWN ON DRAWINGS (WALL FRAMING PLAN). STRUCTURAL PROPERTIES SHALL CONFORM TO AISI SPECIFICATIONS FOR THE DESIGN OF LIGHTGAGE COLD FORMED STRUCTURAL MEMBERS.

- ROUGH CARPENTRY: PRODUCT DELIVERY, STORAGE AND HANDLING. A. STORE LUMBER OFF GROUND OR FLOOR, COVER WITH WATERPROOF COVERING AND PROVIDE ADEQUATE
- B. DO NOT STORE SEASONED OR TREATED LUMBER IN DAMP LOCATION.

FINISH CARPENTRY AND MILLWORK: QUALITY ASSURANCE: LUMBER GRADING RULES AND WOOD SPACES: IN ACCORDANCE WITH PS 20. COMPLY WITH APPLICABLE "ARCHITECTURAL WOODWORK STANDARDS" BY AWI.

PRODUCTS; DISPLAY UNITS-FIXTURES SUPPLIED AND INSTALLED BY; (SEE CONTRACT SCHEDULE).

THERMAL AND MOISTURE PROTECTION: BUILDING INSULATION; SOUND BATT INSULATION MATERIALS: PROVIDE OWENS/CORNING 3 1/2" BATT ACOUSTICAL

EXECUTION: APPLICATION: INSTALL BATT INSULATION IN ACCORDANCE WITH MFG RECOMMENDATIONS

JOINT SEALANTS: PRODUCT DELIVERY, STORAGE AND HANDLING: DELIVER MATERIALS TO SITE IN MFG ORIGINAL, UNOPENED CONTAINERS WITH LABEL INTACT AND LEGIBLE.

PRODUCTS-MATERIALS:

INSULATION AS SHOWN ON DRAWINGS. (WHEN SPECIFIED)

BETWEEN STEEL AND CONCRETE OR BETWEEN ALUMINUM AND CONCRETE: 2. FOR INTERIOR JOINTS BETWEEN MASONRY AND OTHER MATERIALS: ACRYLIC LATEX CAULK, COLOR AS SELECTED BY ARCHITECT. APPLICATION: FOLLOW MFG INSTRUCTION REGARDING SURFACE PREPARATION, PRIMING APPLICATION LIFE AND APPLICATION PROCEDURE. CONSULT SEALANT MFG FOR RECOMMENDATION FOR APPLICATION OF SEALANT WHEN AIR TEMP IS BELOW 40 DEGREES F. DOORS AND WINDOWS: REFER TO DRAWINGS FOR LABELED DOORS AND/OR FRAMES REQUIRED.

A. HOLLOW METAL FRAMES:

- FABRICATE FROM 16 GA COLD-ROLLED STEEL WITH WELDED CORNERS, GROUND SMOOTH. . DEPTH: AS REQUIRED FOR EACH INDIVIDUAL INSTALLATION.
- 3. FURNISH WITH 3 ANCHORS PER JAMB AND REMOVABLE SPREADER AT BOTTOM. 4. FINISH: FACTORY BAKED-ON PRIMER.

WOOD DOORS: FURNISH DOORS WITH UL LABELS ATTACHED, SHOWING RATING, MFG AND LABELED HARDWARE REQUIREMENTS.

HARDWARE: INCLUDE EACH ITEM TO BE FURNISHED; SHOW MFG'S CATALOG NUMBERS, FINISH, ACCESSORY ITEMS, KEYING AND LOCATION BY DOOR NUMBER IN ACCORDANCE WITH SCHEDULE INDICATED ON DRAWINGS.

KEYING: ALL LOCKSETS AND CYLINDER LOCKS SHALL BE KEYED AND MASTER KEYED. STANDARD QUALITY: REFER

EXECUTION-INSTALLATION: INSTALL IN ACCORDANCE WITH MFG'S DIRECTIONS, USING TEMPLATES FURNISHED BY MANUFACTURER WHERE APPLICABLE.

GLAZING: FURNISH GLAZING MATERIALS IN ACCORDANCE WITH CPSC STANDARD NO. 16 CFR PART 1201, "ARCHITECTURAL SAFETY GLAZING STANDARD".

MIRRORS: FS DD-G-451 MIRROR QUALITY FLOAT GLASS WITH TWO COATS SILVER AND ELECTROPLATED COPPER BACKING, GROUND AND POLISHED EDGES.

A. MIRRORS: MOUNT ON WALL WITH EDGE CLIP AND GLAZING TAPE. B. INSTALL GLASS IN ACCORDANCE WITH FLAT GLASS JOBBER'S GLAZING MANUAL. USE WORKMEN SPECIALIZED IN INSTALLATION OF GLASS AND SEALANTS.

FINISHES: GYPSUM DRYWALL: PRODUCT DELIVERY, STORAGE AND HANDLING: STORE MATERIALS IN PROTECTED, DRY AREA UNTIL USED. PRODUCTS-MATERIALS:

- A. GYPSUM BOARD: ASTM A36, TYPE X 5/8 FIRECODE, GOLD BOND, U.S.G. OR AN APPROVED EQUAL WHERE
- SHOWN ON DRAWINGS. B. TRIM: PROVIDE MFG'S STANDARD METAL TRIM ACCESSORIES OF BEADED TYPE WITH FACE FLANGES FOR CONCEALMENT IN JOINT COMPOUND EXCEPT WHERE SEMI-FINISHING OR EXPOSED TYPE IS INDICATED.
- JOINT TAPE: ASTM C 475 PERFORATED. D. JOINT COMPOUND: ASTM C 475 OF THE TYPE INDICATED.

TO HARDWARE SCHEDULE ON DRAWINGS.

PRODUCT DELIVERY, STORAGE AND HANDLING: DELIVER MATERIALS IN MFG'S ORIGINAL UNOPENED CONTAINERS, WITH IDENTIFYING LABELS INTACT AND LEGIBLE.

JOB CONDITIONS: MAINTAIN MIN. 50 DEGREES F. TEMP. IN AREAS RECEIVING AND FOR MIN. 7 DAYS AFTER INSTALLATION.

PRODUCTS-MATERIALS: SEE FINISH LEGEND FOR STYLE AND COLOR

ACOUSTICAL CEILINGS: JOB CONDITIONS: DO NOT INSTALL CEILINGS UNTIL BUILDING IS SUBSTANTIALLY WATER WEATHER TIGHT AND

UNTIL OVERHEAD MECHANICAL AND ELECTRICAL WORK HAS BEEN INSPECTED AND APPROVED. PRODUCTS-MATERIALS: REFER TO REFLECTED CEILING PLAN FOR GRID AND TILE TYPES.

EXECUTION-INSTALLATION:

- B. FOLLOW APPLICABLE REQUIREMENTS OF REQUIREMENTS OF ASTM C636 AND RECOMMENDATIONS OF
- CEILING AND INTERIOR SYSTEM CONTRACTORS ASSOC. C. SPACE 12 GA. HANGER WIRES NOT OVER 4'-0" O.C.; PROPERLY LEVEL AND ALIGN MAIN AND CROSS MEMBERS, ATTACH WALL ANGLE MAX. 24" O.C.

A. VERIFY LIGHTING FIXTURE AND AIR DISTRIBUTION LAYOUT TO ASSURE POSITIONING WITHIN FINISHED

- D. CHECK FOR FINAL LEVELING AND CENTERING OF PANELS. REPLACE DAMAGED OR SOILED PANELS.
- FLOOR COVERINGS:

JOB CONDITIONS: MAINTAIN TEMPERATURE IN SPACES TO RECEIVE TILE BETWEEN 70 DEGREES AND 90 DEGREES F. FOR 48 HOURS PRIOR TO, DURING AND FOR 48 HOURS AFTER INSTALLATION. PRODUCTS-MATERIALS:

A. SEE SCHEDULES AS PROVIDED IN DRAWINGS.

PAINTING: JOB CONDITIONS:

- A. CAREFULLY AND ADEQUATELY PROTECT, AS REQUIRED, SURFACES NOT REQUIRING PAINTING IN AREAS
- WHERE PAINTING IS BEING CARRIED ON. APPLY PAINT UNDER DRY AND DUST-FREE CONDITIONS.
- DO NOT APPLY PAINT WHEN TEMPERATURE IS LESS THAN 50 DEGREES F. OR MORE THAN 90 DEGREES F. OR WHEN EXCESSIVELY HUMID.
- ALL PAINTED SURFACES ARE TO RECEIVE A MINIMUM OF (1) PRIMER COAT AND (2) FINISH COATS. E. ALL PAINT IS TO BE APPLIED WITH BRUSH & ROLLER. NO SPRAYING.

PRODUCTS-MATERIALS:

- A. PAINTS: APPROVED COLORS SHALL BE AS SCHEDULED ON THE DRAWINGS OR SELECTED BY "COMCAST/XFINITY.
- B. GYPSUM BOARD TREATMENT: U.S.G. GYPSUM CO. "PERF-A-TAPE", "READY MIXED ALL-PURPOSE JOINT COMPOUND" AND "ALL PURPOSE TEXTURE FINISH" OR EQUAL.
- APPLY PAINT UNIFORMLY WITHOUT VISIBLE LAPS, SAGS, CURTAINS, HOLIDAYS OR OBJECTIONABLE BRUSH
- INSURE THAT PRIMER AND INTERMEDIATE COATS OF PAINT ARE UNSCARRED AND COMPLETELY INTEGRAL AT THE TIME OF APPLICATION OF EACH COAT. ALLOW SUFFICIENT TIME BETWEEN COATS TO ENSURE PROPER

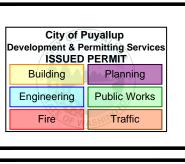
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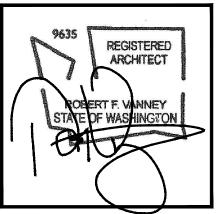
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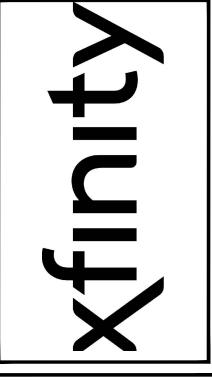
- A. PROVIDE SIGNAGE AS REQUIRED AND AS SPECIFIED ON DRAWINGS.
- B. INSTALL SIGNS AS REQUIRED BY ALL GOVERNING CODES AND MOUNT AT REQUIRED CODE HEIGHTS. FIRE EXTINGUISHERS, CABINETS AND ACCESSORIES: CABINETS AND EXTINGUISHERS SHALL MEET ALL REQUIREMENTS OF GOVERNING CODES.
- ACCEPTABLE MANUFACTURERS: POTTER-ROEMER, INC. OR LARSEN'S MFG COMPANY
- FIRE EXTINGUISHER: 2A-20BC CAPACITY: 5 lbs./10 lbs./20lbs. SIZE AND LOCATION AS REQUIRED BY LOCAL CODES.

SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ELECTRICAL AND MECHANICAL SPECIFICATIONS

55 EAST 5TH STREET, STE. 750 651. 222. 4642 FAX. 651. 222. 3034







| Description | | | | | |
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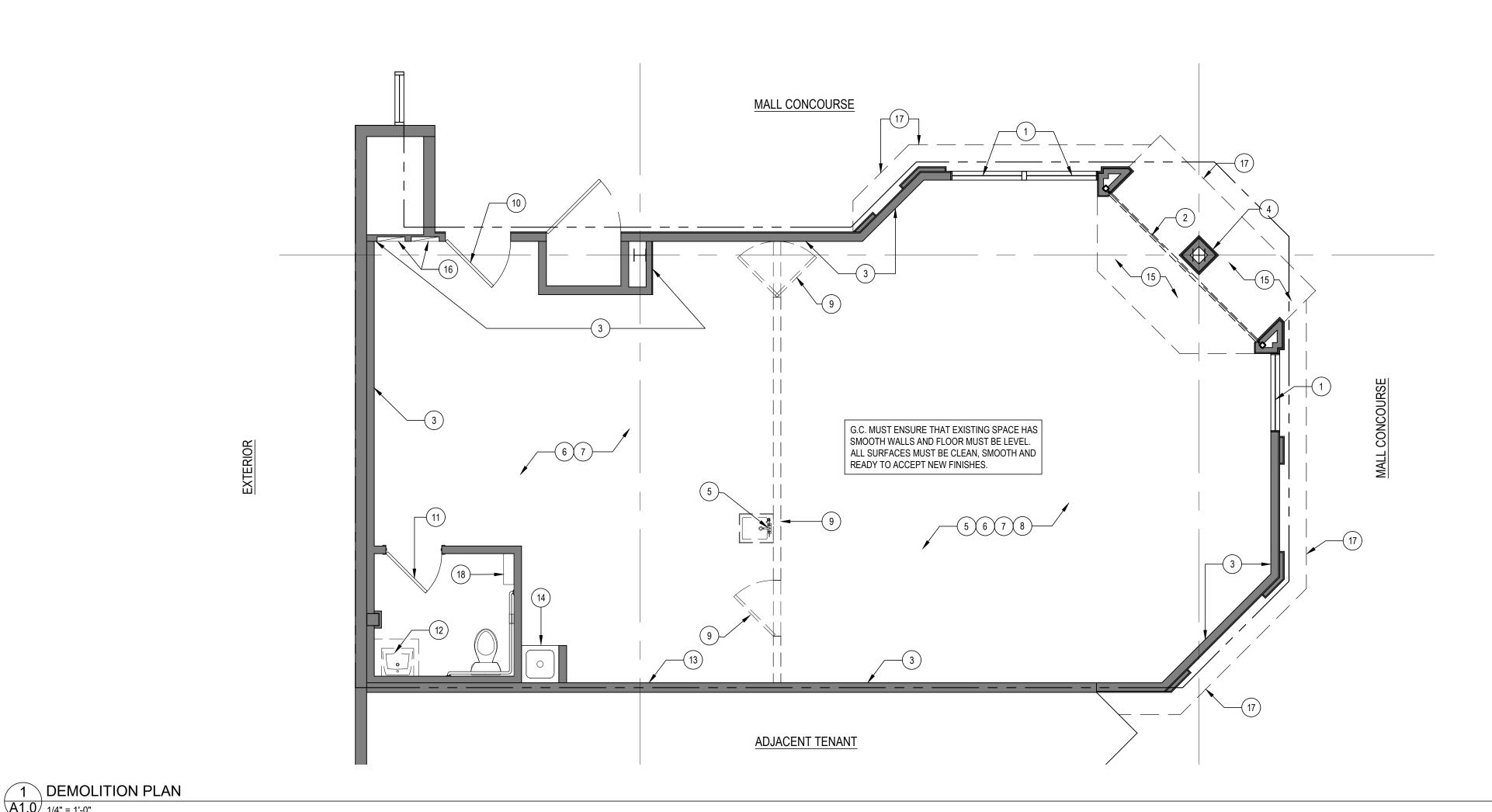
SPECIFICATIONS **RESPONSIBILITY**

SCHEDULE

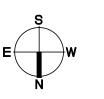
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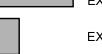
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A1.0 1/4" = 1'-0"



WALL DEMOLITION LEGEND



EXISTING COLUMN TO REMAIN

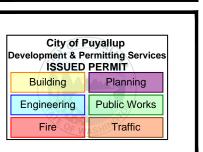
DEMOLITION NOTES

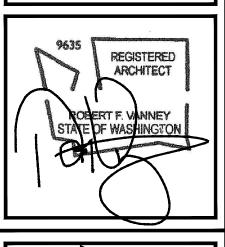
- DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA SUPPLIED BY THE OWNER TO THE ARCHITECT. THE ARCHITECT MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, FOR THE ACCURACY OF THE COMPLETENESS OF THE EXISTING INFORMATION RECORDED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE IN THE COURSE OF THE DEMOLITION WORK.
- VERIFY LOCATIONS OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL UTILITIES. LOCATE AND PROTECT UTILITIES TO REMAIN. DISCONNECT, REMOVE BACK TO NEAREST JUNCTION BOX OR PANEL, AS REQUIRED, AND CAP DESIGNATED UTILITIES WITHIN THE DEMOLITION AREA. REFER TO THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFO.
- EXISTING ELECTRICAL AND TELEPHONE OUTLETS LOCATED ON DEMOLISHED WALLS ARE TO BE REMOVED INCLUDING CONDUIT AND WIRING BACK TO JUNCTION BOX. LOCATIONS ARE TO BE PATCHED AND REPAIRED TO BE FLUSH WITH ADJACENT WALL SURFACE.
- WHERE PLUMBING FIXTURES ARE BEING REMOVED OR WHERE EXPOSED PLUMBING PIPES OCCUR, CAP LINES BEHIND FINISHED SURFACES. PATCH AND REPAIR AS REQUIRED.
- ALL EXISTING CONSTRUCTION WHERE INDICATED INCLUDING ELECTRICAL, TELEPHONE, PLUMBING AND MECHANICAL DEVICES NOT OTHERWISE INDICATED ON THESE CONSTRUCTION DRAWINGS SHALL BE REMOVED IN A CAREFUL MANNER SO AS NOT TO DAMAGE ADJOINING CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF HIS WORK.
- ALL EXISTING BUILDING UTILITIES SHALL REMAIN IN OPERATION DURING CONSTRUCTION. PROVIDE REROUTING OF UTILITIES SERVING ADJACENT AREAS THAT ARE TO MAINTAIN UNINTERRUPTED SERVICE. ANY TEMPORARY SUSPENSION OF SERVICE SHALL BE COORDINATED AND APPROVED BY THE FACILITY MANAGER, NOT LESS THAN 24-HOURS IN ADVANCE.
- THE CONTRACTOR WILL VERIFY AND CONFORM TO ALL REQUIREMENTS OF ALL UTILITY COMPANIES UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS.
- THE DEMOLITION PLAN KEYNOTES ARE DIAGRAMMATIC AND GENERAL IN NATURE. THE INTENT IS TO ILLUSTRATE THE COMPLETE DEMOLITION OF THE SPACES INDICATED UNLESS NOTED OTHERWISE. FIELD VERIFICATION OF THE EXISTING CONDITIONS AND SPECIFIC QUANTITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
-). REMOVAL AND DISPOSAL OF DEMOLITION DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY THE HAULING ROUTE THROUGH THE BUILDING, THE DEMOLITION STAGING AREA, AND THE LOCATION OF THE DUMPSTERS WITH THE OWNER PRIOR TO THE START OF DEMOLITION. DISPOSAL OF RUBBISH SHALL BE DONE IN A LEGAL MANNER.
- THE OWNER RESERVES THE RIGHT TO SALVAGE ANY DEMOLISHED ITEM. VERIFY ITEMS TO BE SALVAGED WITH THE OWNER PRIOR TO THE START OF DEMOLITION. REMOVE, PROTECT, CLEAN, REPAIR FOR THE REUSE AND TURN OVER SUCH ITEMS AS DIRECTED BY
- 2. IN ORDER TO INSTALL SOME OF THE NEW WORK (INCLUDING, BUT NOT LIMITED TO MECHANICAL, PLUMBING OR ELECTRICAL) IT WILL BE NECESSARY FOR THE CONTRACTOR AND HIS SUBCONTRACTORS TO REMOVE AND REPLACE (OR REFINISH) EXISTING WALLS, FLOORS, OR CEILING IN THE AREAS OF THE BUILDING NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL INCLUDE ALL RELATED COSTS IN HIS BASE BID, WHETHER SHOWN ON THESE PLANS OR NOT.
- PROTECT ADJACENT SPACES NOT SCHEDULED FOR DEMOLITION. PATCH AND REPAIR DAMAGED FINISHES, ITEMS AND FIXTURES TO REMAIN AND/OR REPLACE IN KIND TO MATCH EXISTING FROM DAMAGE DURING THE PROGRESS OF THE WORK. PROVIDE TEMPORARY SAFETY BARRIERS REQUIRED BY CODE AND AS INDICATED TO INSURE PUBLIC SAFETY AND TO ALLOW BUILDING OCCUPANCY. CONTRACTOR TO SUBMIT FOR APPROVAL, BARRIER LOCATIONS, AND METHOD OF CONSTRUCTION TO THE ARCHITECT PRIOR TO INSTALLATION.
- 14. NO STRUCTURAL ELEMENTS ARE INCLUDED IN THIS SCOPE OF WORK.
- 5. PROVIDE DUST BARRIERS AROUND OPENINGS, TO AND FROM THE CONSTRUCTION AREA. PROVIDE ALL MEANS NECESSARY TO INHIBIT DUST FROM ENTERING OTHER PORTIONS OF THE FACILITY. SUBMIT BARRIER LOCATIONS TO THE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION.
- PROVIDE ADEQUATE SHORING, BRACING, BARRICADES AND PROTECTIVE MEASURES AS REQUIRED TO SAFELY EXECUTE THE WORK IN THE CONSTRUCTION AREA AND THE AREAS ADJACENT TO THE CONSTRUCTION AREA. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF THE STRUCTURE APPEARS TO BE ENDANGERED. DO NOT RESUME OPERATIONS UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN.
- CONTRACTOR SHALL MAINTAIN REQUIRED MEANS OF EGRESS AND ENSURE THAT EXIT ROUTES ARE SIGNED. LIGHTED AND PROTECTED IN ACCORDANCE WITH CODE REQUIREMENTS. RELOCATE EXISTING AND/OR PROVIDE SMOKE PROTECTORS AND LIFE SAFETY EQUIPMENT FOR ADEQUATE COVERAGE.
- 18. PROVIDE TEMPORARY NON-COMBUSTIBLE CONSTRUCTION BARRIERS WHERE REQUIRED BY CODE AND THE GOVERNING FIRE AUTHORITY. MINIMUM REQUIREMENTS:
 - a. FULL HEIGHT WALL FROM FLOOR TO CEILING.
 - b. STUDS AT 24" O.C., WITH 5/8" TYPE "X" GPYSUM BOARD. c. NON-COMBUSTIBLE ACCESS DOOR WITH (3) HINGES AND SPRING CLOSER.
- APPLY CEMENT BASE FLOOR PATCH AS REQUIRED TO FILL DINGS, NAIL HOLES, CHIPS AND CRACKS.
- 20. AT FLOOR AREAS SCHEDULED TO RECEIVE NEW FLOOR COVERING, REMOVE EXISTING FLOOR COVERING AND PREPARE SUBSTRATE FOR NEW FLOOR COVERING PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
- AT ABANDONED PENETRATIONS OF FIRE RATED WALLS, CEILING OR FLOOR CONSTRUCTION, COMPLETELY SEAL VOIDS WITH FIRE RATED MATERIAL TO FULL THICKNESS OF THE PENETRATED ELEMENT. ALL PATCHING OF EXISTING WORK TO REMAIN SHALL MATCH FINISH PER SCHEDULE OR WHERE UNSCHEDULED TO MATCH EXISTING FINISHES TO REMAIN, AND SHALL MEET OR EXCEED FIRE RATING INDICATED ON FLOOR PLAN AND AS REQUIRED BY THE FIRE/LIFE SAFETY INSPECTOR.
- 22. COORDINATE EXISTING SPRINKLER LINE AND HEAD LOCATION WITH NEW PLAN. SUBMIT SPRINKLER SHOP DRAWINGS TO OWNER
- 3. CONTRACTOR IS RESPONSIBLE FOR BUILDING SECURITY DURING DEMOLITION PHASE. PROTECT ALL OPENINGS FROM WEATHER CONDITIONS AND SECURE THEM TO PREVENT VANDALISM.
- 24. DO NOT PERFORM ANY WORK THAT WILL VOID WARRANTIES OF EXISTING WEATHER EXPOSED OR MOISTURE RESISTANT ELEMENTS WITHOUT PRIOR APPROVAL FROM THE OWNER.
- ARCHITECT ASSUMES NO RESPONSIBILITY RELATING TO ANY TOXIC MATERIALS, INCLUDING ASBESTOS, AND ASSUMES NO RESPONSIBILITY TO ITS EXISTENCE OR REMOVAL. THE OWNER WILL TAKE ACTION FOR DIRECTLY CONTRACTING WITH A CONSULTANT OR SPECIALIST, LICENSED BY THE STATE, FOR SUCH SERVICES SHOULD THOSE SERVICES BE REQUIRED ON THE
- 16 . $\,$ IF THE EXISTING BUILDING CONSTRUCTION IS CLASSIFIED SUCH THAT FIREPROOFING INSULATION IS PRESENT, THEN THE CONTRACTOR, PRIOR TO STARTING ANY WORK, SHALL VERIFY THE CURRENT FIRE-RESISTANCE RATING(S) OF THE EXISTING BUILDING ELEMENT(S). IF THE EXISTING FIREPROOFING INSULATION IS DAMAGED/AFFECTED DURING THE COURSE OF THE WORK, AS DEFINED BY THIS PROJECT SCOPE, THEN THE CONTRACTOR SHALL PATCH/ REPAIR THE FIREPROOFING INSULATION TO A CONDITION THAT SHALL MATCH OR EXCEED THE ORIGINAL FIRE-RESISTANCE RATING(S) OF THE EXISTING BUILDING ELEMENT(S)
- 27. CONTRACTOR TO RELOCATE AND REUSE EXISTING DOORS AND HARDWARE WHERE POSSIBLE.
- 28. EXISTING DOORS TO REMAIN U.N.O.
- 29. CONTRACTOR SHALL MAINTAIN ALL EXISTING FIRE RATINGS OF STRUCTURAL COMPONENTS, WALLS, FLOORS, COLUMNS, ENCLOSURES, SURROUNDS, ETC. CONTRACTOR SHALL RESTORE, REINSTATE, REPAIR AND REPLACE ALL FIRE RATINGS IF DAMAGED, REMOVED, OR DISLODGED.

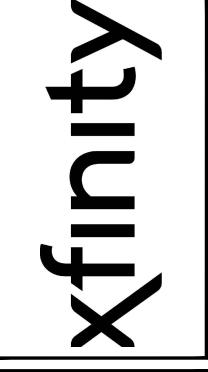
DEMOLITION PLAN KEY NOTES

- 1) EXISTING STOREFRONT GLAZING SYSTEM TO REMAIN. (V.I.F.) G.C. TO CLEAN TO A "LIKE NEW" CONDITION.
- (2) EXISTING STOREFRONT ROLLING GRILLE TO REMAIN (V.I.F.) SEE DOOR SCHEDULE, A2.0 FOR MORE INFORMATION.
- 3) EXISTING DEMISING, EXTERIOR & MALL CONCOURSE WALLS TO REMAIN. PREPARE FOR NEW FINISHES.
- (4) EXISTING COLUMN ENCLOSURE AT ENTRY TO REMAIN. PREPARE FOR NEW FINISHES. 5) REMOVE EXISTING SINK. CAP & SEAL ALL PLUMBING FLUSH WITH CONCRETE FLOOR AND/OR WALLS.
- PREPARE FOR NEW CONSTRUCTION AND FINISHES. 6)REMOVE EXISTING CEILING, LIGHT FIXTURES, HVAC DIFFUSERS AND RETURN GRILLS. EXISTING DUCTWORK TO REMAIN.
- PREPARE FOR NEW CONSTRUCTION AND FINISHES. 7) REMOVE EXISTING FLOORING FINISHES AND PREP CONCRETE SLAB FOR NEW FINISHES.
- (8) FLOOR TRENCHING TO BE COORDINATED WITH ELECTRICAL DRAWINGS AND SHEET A4.0
- 9) ALL EXISTING INTERIOR WALLS, DOORS, AND WINDOWS AS SHOWN DASHED TO BE REMOVED.
- ALL ELECTRICAL TO BE BROUGHT BACK TO NEAREST J-BOX AND MADE SAFE. (10) EXISTING REAR EXIT DOOR TO REMAIN.
- (11) EXISTING DOORS TO REMAIN
- 2) REMOVE EXISTING LAV AND COUNTER. PREPARE FOR NEW. EXISTING WATER CLOSET AND GRAB BARS TO REMAIN. G.C. TO VERIFY EXISTING FINISHES AND FIXTURES WITH OWNER AND ENSURE FUNCTIONALITY AND ACCESSIBILITY COMPLIANCE. UPGRADE / REPAIR / REPLACE AS REQUIRED.
- 13) REMOVE SHUT-OFF VALVES FOR FORMER 3-COMPARTMENT SINK. CAP & SEAL ALL PLUMBING FLUSH WITH CONCRETE FLOOR AND/OR WALLS. - PREPARE FOR NEW CONSTRUCTION AND FINISHES.
- (14) EXISTING MOP SINK TO REMAIN. G.C. TO VERIFY AND ENSURE FUNCTIONALITY. CLEAN TO "LIKE NEW" CONDITION.
- (15) EXISTING ENTRY PORTAL / SOFFIT RECESSED LIGHTING TO REMAIN. CLEAN TO "LIKE NEW"
- CONDITION. RELAMP AS REUIRED.
- (16) EXISTING ELECTRICAL EQUIPMENT TO REMAIN. SEE ELECTRICAL DRAWINGS.
- (17) EXISTING STOREFRONT ABOVE. PATCH AND MATCH AS REQUIRED.
- (18) EXISTING WATER METER TO REMAIN (V.I.F.)

55 EAST 5TH STREET, STE. 75







Preliminary Issue: 10/24/24 Bid Issue: 10/24/24 Landlord Issue: 10/24/24 Permit Issue:

DEMOLITION FLOOR PLAN

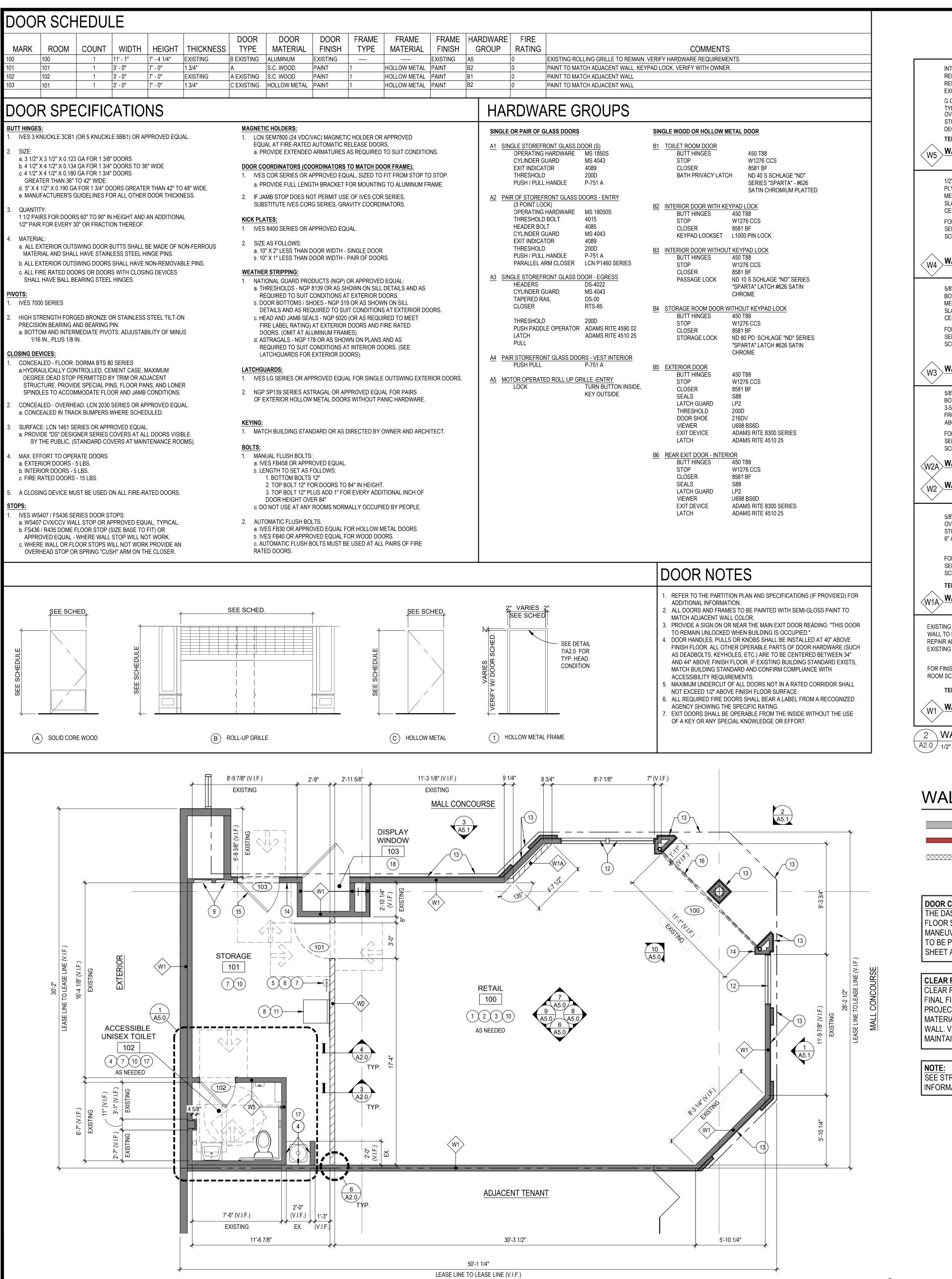
Construction Issue:

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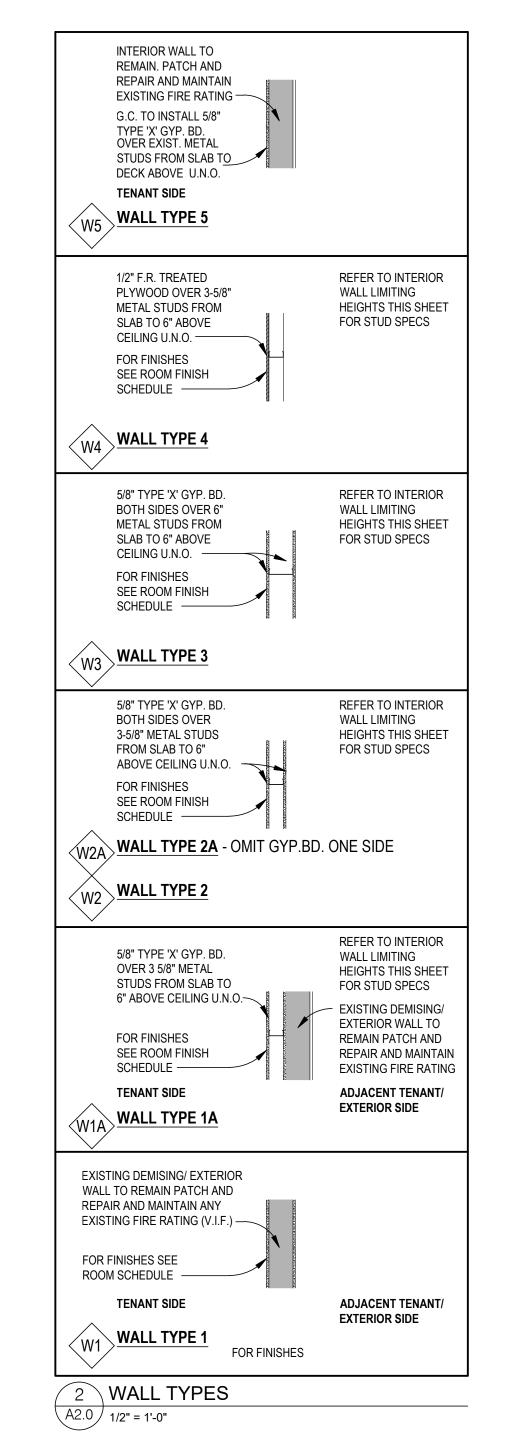
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EXISTING WALL TO REMAIN

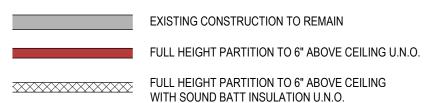


1 PARTITION PLAN

A2.0 1/4" = 1'-0"



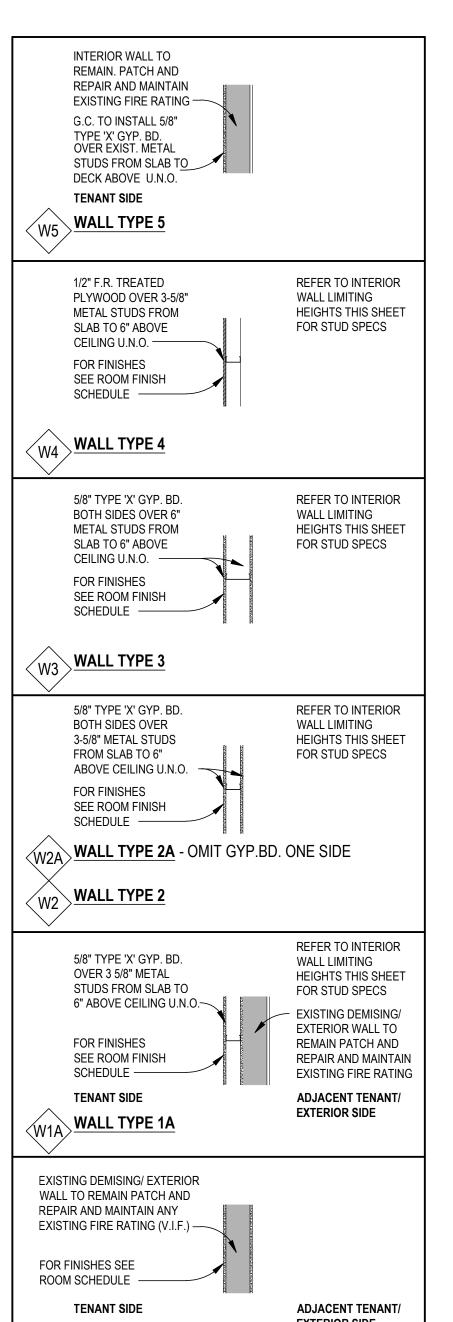
WALL LEGEND

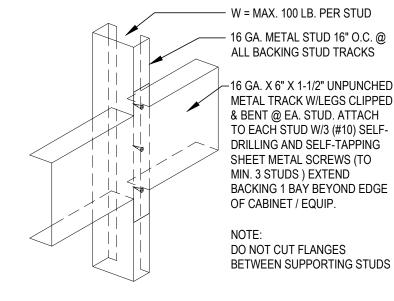


DOOR CLEARANCES FOR ACCESSIBILITY THE DASHED RECTANGLES AT DOORS INDICATE CLEAR FLOOR SPACE NEEDED FOR A HANDICAPPED PERSON TO MANEUVER. NO OBJECTS (WALLS, FIXTURES, ETC.) ARE TO BE PLACED WITHIN THE DASHED RECTANGLES. SEE SHEET A0.2 FOR ADDITIONAL INFORMATION.

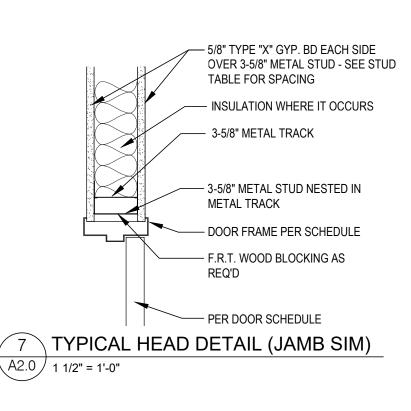
CLEAR FLOOR SPACE: CLEAR FLOOR SPACE DIMENSIONS ARE FROM FACE OF INAL FINISH MATERIAL WHICH INCLUDES ANY PROJECTING FINISHES SUCH AS: CASING, FLOOR BASE MATERIAL, CORNER GUARDS, ETC. BEYOND THE FINISH WALL. VERIFY WALL TYPES AND WALL FINISHES TO MAINTAIN PROPER CLEARANCES.

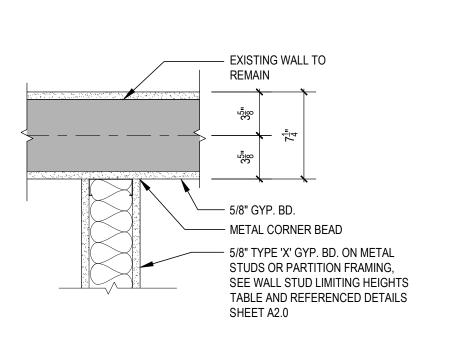
SEE STRUCTURAL DRAWINGS FOR ADDITIONAL FRAMING

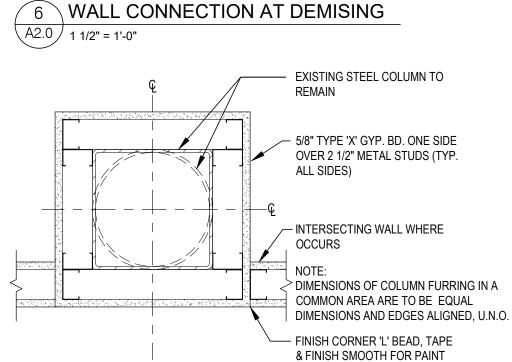




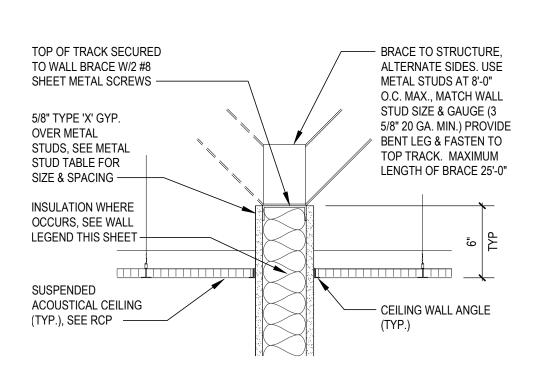
8 BACKING DETAIL FOR MISC. EQUIP. A2.0 / 1 1/2" = 1'-0"



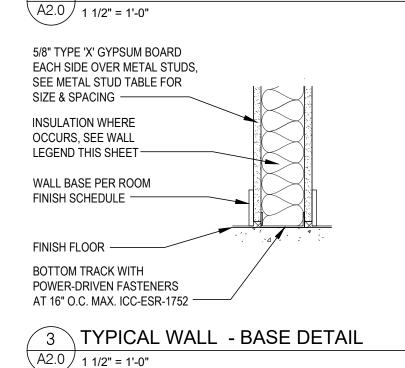




NON-RATED COLUMN FURRING A2.0 1 1/2" = 1'-0"



4 TYPICAL WALL AND CEILING DETAIL



| (C) CTUD MEMBED | ODAOINO (IN.) O O | | 5 PSF | | | 7.5 PSF | | | 10 PSF | | | JBEK | |
|--|--------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------|--------------------|
| (S) STUD MEMBER 162S125-18 | SPACING (IN.) O.C. | L/120 9'-0" | L/240 7'-8" | L/360 6'-8" | L/120 7'-4" | L/240 6'-8" | L/360 5'-10" | L/120 6'-4" | L/240 6'-1" | L/360 5'-4" | | VANN | RV |
| 162S125-18 162S125-18 | 16 24 | 7'-9" 6'-4" | 6'-11" 6'-1" | 6'-1" 5'-4" | 6'-4" 5'-2" | 6'-1" 5'-2" | 5'-4" 4'-8" | 5'-6" 4'-6" | 5'-6" 4'-6" | 4'-10" 4'-3" | | VI #AI VI VI. | ĽŲΨ∷ Titit |
| 162S125-27 162S125-27 162S125-27 | 12 16 24 | 11'-3" 10'-3" 8'-4" | 8'-11" 8'-2" 7'-1" | 7'-10" 7'-1" 6'-3" | 9'-8" 8'-4" 6'-10" | 7'-10" 7'-1" 6'-3" | 6'-10" 6'-3" 5'-5" | 8'-4" 7'-3" 5'-11" | 7'-1" 6'-5" 5'-8" | 6'-3" 5'-8" 4'-11" | · · · <u>/</u> · · · · · | МОПП | |
| 162S125-30 162S125-30 162S125-30 | 12 16 24 | 11'-8" 10'-7" 8'-11" | 9'-3" 8'-5" 7'-4" | 8'-1" 7'-4" 6'-5" | 10'-2" 8'-11" 7'-3" | 8'-1" 7'-4" 6'-5" | 7'-1" 6'-5" 5'-7" | 8'-11" 7'-9" 6'-4" | 7'-4" 6'-8" 5'-10" | 6'-5" 5'-10" 5'-1" | | | |
| 162S125-33 162S125-33 162S125-33 | 12 16 24 | 12'-0" 10'-11" 9'-6" | 9'-6" 8'-8" 7'-7" | 8'-4" 7'-7" 6'-7" | 10'-6" 9'-6" 7'-10" | 8'-4" 7'-7" 6'-7" | 7'-3" 6'-7" 5'-9" | 9'-6" 8'-3" 6'-9" | 7'-7" 6'-11" 6'-0" | 6'-7" 6'-0" 5'-3" | | ST 5TH STREE | |
| 250S125-18 250S125-18 250S125-18 | 12 16 24 | 11'-8" 10'-2" 8'-3" | 10'-6" 9'-7" 8'-3" | 9'-2" 8'-4" 7'-4" | 9'-7" 8'-3" 6'-9" | 9'-2" 8'-3" 6'-9" | 8'-1" 7'-4" 6'-5" | 8'-3" 7'-2" 5'-10"e | 8'-3" 7'-2" 5'-10"e | 7'-4" 6'-8" 5'-10"e | 651. 22 | 22. 4642 FAX. 6 | 51. 222. 3034 |
| 250S125-27 250S125-27 250S125-27 | 12 16 24 | 15'-7" 13'-6" 11'-0" | 12'-4" 11'-3" 9'-10" | 10'-10" 9'-10" 8'-7" | 12'-9" 11'-0" 9'-0" | 10'-10" 9'-10" 8'-7" | 9'-5" 8'-7" 7'-6" | 11'-0" 9'-7" 7'-10" | 9'-10" 8'-11" 7'-10" | 8'-7" 7'-10" 6'-10" | | City of Puyall | lup |
| 250S125-30 250S125-30 250S125-30 | 12 16 24 | 16'-1" 14'-5" 11'-10" | 12'-9" 11'-7" 10'-2" | 11'-2" 10'-2" 8'-10" | 13'-7" 11'-10" 9'-8" | 11'-2" 10'-2" 8'-10" | 9'-9" 8'-10" 7'-9" | 11'-10" 10'-3" 8'-4" | 10'-2" 9'-2" 8'-1" | 8'-10" 8'-1" 7'-0" | | ISSUED PERI | |
| 250S125-33 250S125-33 250S125-33 | 12 16 24 | 16'-7" 15'-1" 12'-8" | 13'-2" 12'-0" 10'-6" | 11'-6" 10'-6" 9'-2" | 14'-6" 12'-8" 10'-4" | 11'-6" 10'-6" 9'-2" | 10'-1" 9'-2" 8'-0" | 12'-8" 11'-0" 8'-11" | 10'-6" 9'-6" 8'-4" | 9'-2" 8'-4" 7'-3" | En | | olic Works Traffic |
| 250S125-43 250S125-43 250S125-43 | 12 16 24 | 18'-1" 16'-5" 14'-4" | 14'-4" 13'-0" 11'-5" | 12'-6" 11'-5" 9'-11" | 15'-10" 14'-4" 12'-4" | 12'-6" 11'-5" 9'-11" | 10'-11" 9'-11" 8'-8" | 14'-4" 13'-0" 10'-8" | 11'-5" 10'-4" 9'-0" | 9'-11" 9'-0" 7'-11" | | | |
| 362S125-18 362S125-18 | 12 16 | 14'-0" 12'-2" | 14'-0" 12'-2" | 12'-6" 11'-4" | 11'-6" 9'-11"e | 11'-6" 9'-11"e | 10'-11" 9'-11"e | 9'-11"e 8'-7"e | 9'-11"e 8'-7"e | 9'-11"e 8'-7" | | | ISTERED CHITECT |
| 362S125-18 362S125-27 362S125-27 | 24 12 16 | 9'-11"e 18'-10" 16'-4" | 9'-11"e 16'-6" 15'-0" | 9'-11"e 14'-5" 13'-1" | 8'-1"e 15'-5" 13'-4" | 8'-1"e 14'-5" 13'-1" | 8'-1"e 12'-7" 11'-5" | 7'-0"e 13'-4" 11'-7" | 7'-0"e 13'-1" 11'-7" | 7'-0"e 11'-5" 10'-5" | | ROBERT F. V | \ |
| 362S125-27 362S125-30 362S125-30 | 24 12 16 | 13'-4" 20'-3" 17'-7" | 13'-1" 17'-0" 15'-6" | 11'-5" 14'-10" 13'-6" | 10'-11" 16'-7" 14'-4" | 10'-11" 14'-10" 13'-6" | 10'-0" 13'-0" 11'-10" | 9'-5" 14'-4" 12'-5" | 9'-5" 13'-6" 12'-3" | 9'-1" 11'-10" 10'-9" | | STATE OF WAS | HINGTON |
| 362S125-30 362S125-33 362S125-33 | 24 12 16 | 14'-4" 21'-11" 18'-11" | 13'-6" 17'-7" 16'-0" | 11'-10" 15'-4" 14'-0" | 11'-8" 17'-10" 15'-6" | 11'-8" 15'-4" 14'-0" | 10'-4" 13'-5" 12'-2" | 10'-2" 15'-6" 13'-5" | 10'-2" 14'-0" 12'-8" | 9'-4" 12'-2" 11'-1" | | | |
| 362S125-33 362S125-43 | 24 12 | 15'-6" 24'-2" | 14'-0" 19'-2" | 12'-2" 16'-9" | 12'-8" 21'-1" | 12'-2" 16'-9" | 10'-8" 14'-8" | 10'-11" 18'-10" | 10'-11" 15'-3" | 9'-8" 13'-4" | H | \Rightarrow | <u> </u> |
| 362S125-43 362S125-43 362S125-54 (50 KSI) | 16 24 12 | 21'-11" 18'-10" 25'-10" | 17'-5" 15'-3" 20'-6" | 15'-3" 13'-4" 17'-11" | 18'-10" 15'-4" 22'-7" | 15'-3" 13'-4" 17'-11" | 13'-4" 11'-7" 15'-8" | 16'-4" 13'-4" 20'-6" | 13'-10" 12'-1" 16'-3" | 12'-1" 10'-7" 14'-2" | | | |
| 362S125-54 (50 KSI) 362S125-54 (50 KSI) | 16 24 | 23'-5" 20'-6" | 18'-7" 16'-3" | 16'-3" 14'-2" | 20'-6" 17'-11" | 16'-3" 14'-2" | 14'-2" 12'-5" | 18'-7" 16'-3" | 14'-9" 12'-11" | 12'-11" 11'-3" | il | | |
| 362S125-68 (50 KSI) 362S125-68 (50 KSI) 362S125-68 (50 KSI) | 12 16 24 | 27'-7" 25'-1" 21'-11" | 21'-11" 19'-11" 17'-5" | 19'-2" 17'-5" 15'-2" | 24'-1" 21'-11" 19'-2" | 19'-2" 17'-5" 15'-2" | 16'-9" 15'-2" 13'-3" | 21'-11" 19'-11" 17'-5" | 17'-5" 15'-10" 13'-10" | 15'-2" 13'-10" 12'-1" | 1 | + | |
| 400S125-18 400S125-18 400S125-18 | 12 16 24 | 14'-9"e 12'-10"e 10'-5"e | 14'-9"e 12'-10"e 10'-5"e | 13'-6"e 12'-3"e 10'-5"e | 12'-1"e 10'-5"e 8'-6"e | 12'-1"e 10'-5"e 8'-6"e | 11'-9"e 10'-5"e 8'-6"e | 10'-5"e 9'-1"e 7'-5"e | 10'-5"e 9'-1"e 7'-5"e | 10'-5"e 9'-1"e 7'-5"e | 1 | | |
| 400S125-27 400S125-27 400S125-27 | 12 16 24 | 19'-11" 17'-3" 14'-1" | 17'-10" 16'-2" 14'-1" | 15'-7" 14'-2" 12'-4" | 16'-3" 14'-1" 11'-6" | 15'-7" 14'-1" 11'-6" | 13'-7" 12'-4" 10'-9" | 14'-1" 12'-2" 9'-11" | 14'-1" 12'-2" 9'-11" | 12'-4" 11'-3" 9'-10" | 1 | | _ |
| 400S125-30 400S125-30 400S125-30 | 12 16 24 | 21'-5" 18'-6" 15'-2" | 18'-5" 16'-8" 14'-7" | 16'-1" 14'-7" 12'-9" | 17'-6" 15'-2" 12'-4" | 16'-1" 14'-7" 12'-4" | 14'-0" 12'-9" 11'-2" | 15'-2" 13'-1" 10'-8" | 14'-7" 13'-1" 10'-8" | 12'-9" 11'-7" 10'-1" | 11 . | | - - |
| 400\$125-33 400\$125-33 400\$125-33 | 12 16 24 | 23'-2" 20'-0" 16'-4" | 19'-0" 17'-3" 15'-1" | 16'-7" 15'-1" 13'-2" | 18'-11" 16'-4" 13'-4" | 16'-7" 15'-1" 13'-2" | 14'-6" 13'-2" 11'-6" | 16'-4" 14'-2" 11'-7" | 15'-1" 13'-9" 11'-7" | 13'-2" 12'-0" 10'-6" | ' | Ŧ | |
| 400\$125-43 400\$125-43 400\$125-43 | 12 16 24 | 26'-1" 23'-9" 19'-11" | 20'-9" 18'-10" 16'-5" | 18'-1" 16'-5" 14'-4" | 22'-10" 19'-11" 16'-3" | 18'-1" 16'-5" 14'-4" | 15'-10" 14'-4" 12'-7" | 19'-11" 17'-3" 14'-1" | 16'-5" 14'-11" 13'-1" | 14'-4" 13'-1" 11'-5" | 1 | × | |
| 400S125-54 (50 KSI) 400S125-54 (50 KSI) 400S125-54 (50 KSI) | 12 16 24 | 27'-11" 25'-4" 22'-2" | 22'-2" 20'-2" 17'-7" | 19'-4" 17'-7" 15'-4" | 24'-5" 22'-2" 19'-4" | 19'-4" 17'-7" 15'-4" | 16'-11" 15'-4" 13'-5" | 22'-2" 20'-2" 17'-7" | 17'-7" 16'-0" 13'-11" | 15'-4" 13'-11" 12'-2" | | | <u> </u> |
| 400\$125-68 (50 KSI) 400\$125-68 (50 KSI) 400\$125-68 (50 KSI) | 12 16 24 | 29'-10" 27'-2" 23'-8" | 23'-8" 21'-6" 18'-10" | 20'-8" 18'-10" 16'-5" | 26'-1" 23'-8" 20'-8" | 20'-8" 18'-10" 16'-5" | 18'-1" 16'-5" 14'-4" | 23'-8" 21'-6" 18'-10" | 18'-10" 17'-1" 14'-11" | 16'-5" 14'-11" 13'-0" | | | |
| 600S125-27 600S125-27 | 12 16 | 24'-10"e 21'-6"e | 24'-4"e 21'-6"e | 21'-3"e 19'-4"e | 20'-4"e 17'-7"e | 20'-4"e 17'-7"e | 18'-7"e 16'-10"e | 17'-7"e 15'-3"e | 17'-7"e 15'-3"e | 16'-10"e 15'-3"e | | | |
| 600S125-27 600S125-30 600S125-30 | 24 12 16 | 17'-7"e 26'-10" 23'-3" | 17'-7"e 25'-2" 22'-11" | 16'-10"e 22'-0" 20'-0" | 14'-4"e 21'-11" 18'-11" | 14'-4"e 21'-11" 18'-11" | 14'-4"e 19'-3" 17'-6" | 12'-5"e 18'-11" 16'-5" | 12'-5"e 18'-11" 16'-5" | 12'-5"e 17'-6" 15'-10" | | | |
| 600S125-33 600S125-33 600S125-33 | 24 12 16 | 18'-11" 29'-0" 25'-2" | 18'-11" 26'-2" 23'-9" | 17'-6" 22'-10" 20'-9" | 15'-6" 23'-8" 20'-6" | 15'-6" 22'-10" 20'-6" | 15'-3" 19'-11" 18'-1" | 13'-5"e 20'-6" 17'-9" | 13'-5"e 20'-6" 17'-9" | 13'-5"e 18'-1" 16'-6" | | щ | ~ |
| 600\$125-33 600\$125-43 600\$125-43 | 24 12 16 | 20'-6" 35'-6" 30'-9" | 20'-6" 28'-9" 26'-1" | 18'-1" 25'-1" 22'-10" | 16'-9" 29'-0" 25'-1" | 16'-9" 25'-1" 22'-10" | 15'-10" 21'-11" 19'-11" | 14'-6" 25'-1" 21'-9" | 14'-6" 22'-10" 20'-9" | 14'-5" 19'-11" 18'-1" | K | \geq | 373 |
| 600S125-43 600S125-54 (50 KSI) | 12 | 25'-1" 38'-9" | 22'-10" 30'-9" | 19'-11" 26'-10" | 20'-6" 33'-10" | 19'-11" 26'-10" | 17'-5" 23'-6" | 17'-9" 30'-9" | 17'-9" 24'-5" | 15'-10" 21'-4" | | AL AN | |
| 600\$125-54 (50 KSI) 600\$125-54 (50 KSI) 600\$125-68 (50 KSI) | 16 24 12 | 35'-3" 30'-9" 41'-7" | 27'-11" 24'-5" 33'-0" | 24'-5" 21'-4" 28'-10" | 30'-9" 26'-10" 36'-4" | 24'-5" 21'-4" 28'-10" | 21'-4" 18'-8" 25'-2" | 27'-11" 24'-1" 33'-0" | 22'-2" 19'-5" 26'-2" | 19'-5" 16'-11" 22'-10" | RT | MA DI⊿ | \triangleleft |
| 600S125-68 (50 KSI) 600S125-68 (50 KSI) 800S125-43 | 16 24 12 | 37'-9" 33'-0" 40'-11" | 30'-0" 26'-2" 36'-1" | 26'-2" 22'-10" 31'-6" | 33'-0" 28'-10" 33'-5" | 26'-2" 22'-10" 31'-6" | 22'-10" 20'-0" 27'-6" | 30'-0" 26'-2" 28'-11" | 23'-9" 20'-9" 28'-8" | 20'-9" 18'-2" 25'-0" | PA | | 8 ≥ |
| 800S125-43 | 16 24 | 35'-5" 28'-11" | 32'-9" 28'-8" | 28'-8" 25'-0" | 28'-11" 23'-8" | 28'-8" 23'-8" | 25'-0" 21'-10" | 25'-1" 20'-6" | 25'-1" 20'-6" | 22'-9" 19'-10" | | | #50 UP |
| 800S125-43 | | 48'-10" | 38'-9" | 33'-10" | 42'-8" | 33'-10" 30'-9" | 29'-7" 26'-10" | 38'-9" 34'-1" | 30'-9" 27'-11" | 26'-10" 24'-5" | и Ш | | ∵## → |
| | 12 16 24 | 44'-4" 38'-9" | 35'-2" 30'-9" | 30'-9" 26'-10" | 38'-9" 32'-1" | 26'-10" | 23'-6" | 27'-10" | 24'-5" | 24-5 | | I (| ' Ш |

INTERIOR WALL LIMITING HEIGHTS NON-COMPOSITE - FULLY BRACED

WEB CRIPPLING CHECK BASED ON 1" END BEARING. STUDS ARE ASSUMED TO BE ADEQUATELY BRACED AT MAXIMUM SPACING OF Lu TO DEVELOP FULL ALLOWABLE MOMENT.

PARTITION PLAN GENERAL NOTES

VERIFY DIMENSION WITH MILLWORKER PRIOR TO FRAMING.

G.C. TO CHALK ALL PARTITIONS & REVIEW WITH REGIONAL MANAGER PRIOR TO FRAMING.

UNLESS OTHERWISE NOTED, ALL GYPSUM BOARD SURFACES, WALLS, AND CEILINGS SHALL BE TAPED, SANDED SMOOTH TO A "LEVEL 4" FINISH, SO AS TO RECEIVE PAINT OR WALL COVERING MATERIAL

PARTITION PLAN KEY NOTES

) IF EXISTING COLUMNS ARE LOCATED IN SALES AREA COLUMNS TO BE FURRED WITH METAL STUDS & (1) LAYER 5/8" GYP. BOARD TO 6" ABOVE CEILING. SIZE OF COLUMN FURRING TO BE CONSISTENT AND ALIGN WITH OTHERS. SEE DETAIL

PROVIDE BACKING SUPPORT BEHIND WALL-MOUNTED EQUIPMENT AND FIXTURES. SEE SHEET A4.0 FOR FIXTURE PROVIDED BY

LOCATIONS AND BLOCKING LEGEND.

5) PROVIDE LEVEL FLOOR FOR LEVEL INSTALLATION OF MILLWORK AND FLOOR FINISHES.

PROVIDE WATERPROOF MEMBRANE AT ALL AREAS WHEN THEY ARE ABOVE OTHER SPACES. 5) PROVIDE FIRE EXTINGUISHER BY POTTIER-ROEMER. EXTINGUISHER TO BE #3005, 2A:10B:C.

6) LOCATIONS AND CLASSIFICATIONS OF FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH STATE & LOCAL FIRE CODES AND PLACEMENT IS SUBJECT TO THE APPROVAL OF THE FIRE INSPECTOR. VERIFY QUANTITY & EXACT LOCATION WITH FIRE DEPARTMENT PRIOR TO ORDERING.

PROVIDE AND INSTALL ALL NECESSARY WALL BACKING, STIFFENERS,BRACING, BACK-UP PLATES AND/OR SUPPORTING BRACKETS AS REQUIRED FOR THE INSTALLATION OF WALL-MOUNTED OR SUSPENDED EQUIPMENT OR BUILT-IN ITEMS.

VERIFY REQUIREMENTS WITH MANUFACTURERS PRIOR TO INSTALLATION. SUPPLY CATALOG CUT SHEETS FOR ARCHITECT'S APPROVAL. SEE DETAIL 8/A2.0.

(8) ELECTRONIC EQUIPMENT TO BE PROVIDED BY TENANT'S VENDORS.

(9) ELECTRICAL EQUIPMENT. SEE ELECTRICAL

(10) PREPARE ALL FLOOR SURFACES AS REQUIRED TO RECEIVE FINISHES AS NOTED ON FINISH PLAN. ENLARGED FINISH PLANS & FINISH LEGEND.

(11) (2) SERVER RACKS. MOUNT ONE ABOVE THE OTHER ON 3/4" FRP PLYWOOD PAINTED TO MATCH ADJACENT WALL.

(12) EXISTING GLAZING AND STOREFRONT FRAME TO REMAIN - CLEAN TO "LIKE NEW" CONDITION.

 $(13)\,$ EXISTING STOREFRONT FINISHES TO REMAIN. PATCH AND MATCH AS REQUIRED.

(14) "EXIT" TACTILE SIGNAGE REQUIRED AT ALL EXITS. SEE SHEET A0.2 FOR REQUIREMENTS.

(15) EXIT DOORS - T.G.C. SHALL ENSURE STOOP, THRESHOLD AND ALL CODE REQUIRED ELEMENTS COMPLY WITH ADA REQUIREMENTS AND MEET ALL LOCAL, STATE, AND NATIONAL CODES FOR ACCESSIBILITY AND EGRESS.

(16) EXISTING ROLLING GRILLE TO REMAIN. G.C. TO VERIFY ROLLING GRILLE TO BE IN GOOD WORKING ORDER. REPAIR AS REQUIRED. (V.I.F.).

(17) G.C. SHALL VERIFY EXISTING CONDITION OF FRP PANELS. REPLACE DAMAGED AREAS AS REQUIRED. (V.I.F.) (18) EXISTING DISPLAY WINDOW TO REMAIN. PATCH AND MATCH AS REQUIRED. (V.I.F.).

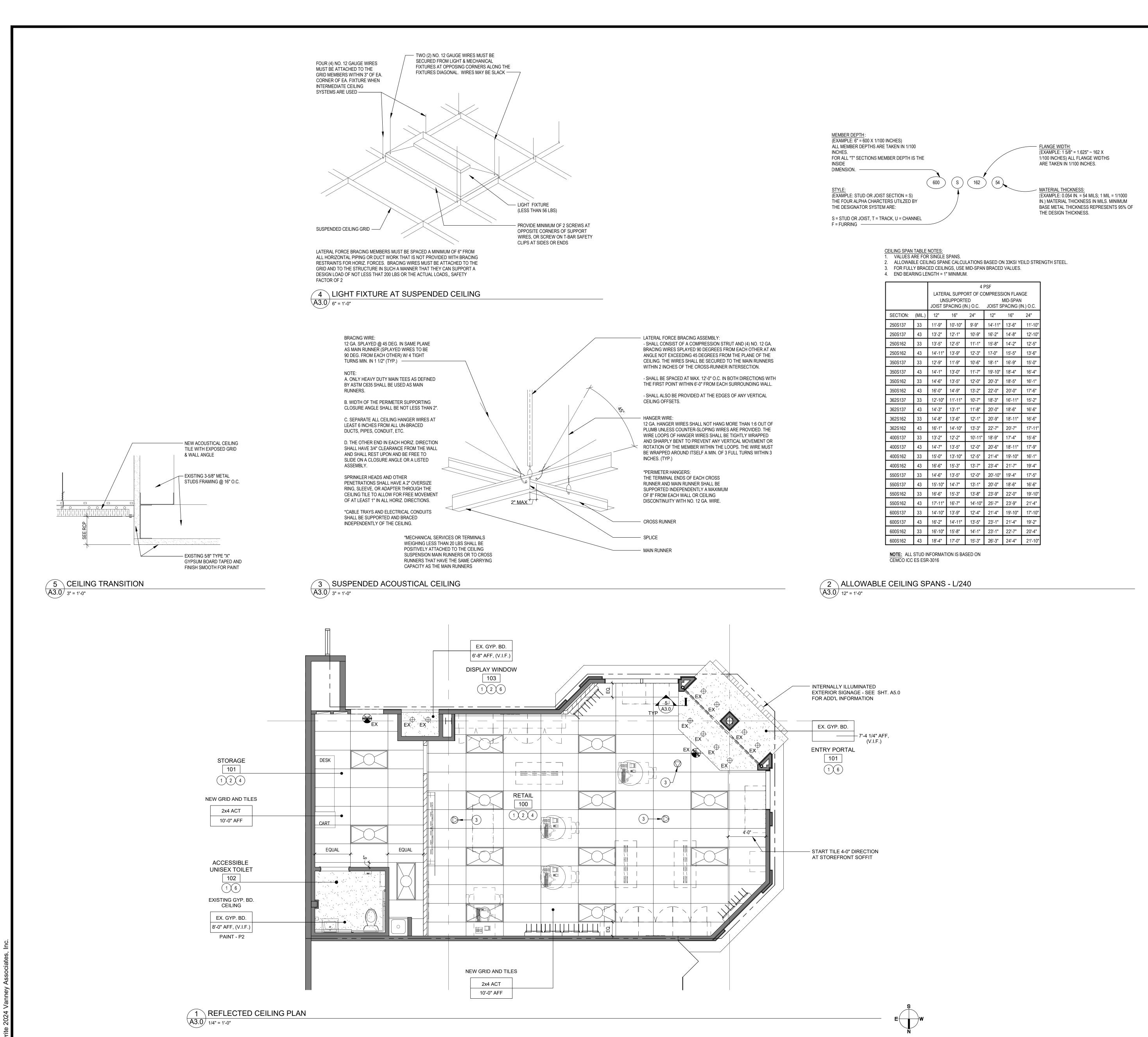
4) USE WATER RESISTANT GYPSUM BOARD/FIBER BOARD AT ALL AREAS SUBJECT TO MOISTURE OR WHERE TILE IS USED. Preliminary Issue: 10/24/24

10/24/24 _andlord Issue: 10/24/24 Permit Issue: Construction Issue:

PARTITION PLAN

81-2294 Comm. Number 10/24/2024

Drawn By RFV Checked By



REFLECTED CEILING PLAN GENERAL NOTES

- FIELD VERIFY CEILING GRID LOCATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES ON PLANS.
- FIELD VERIFY ALL CLEARANCES OF DUCTS, PIPES, SPRINKLERS, ETC. AND NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF LIGHTS, ETC.
- CONDUITS ABOVE CEILING MUST BE A MINIMUM OF 12" ABOVE THE CEILING GRID.
- ALL JUNCTION BOXES AND MECHANICAL EQUIPMENT REQUIRING ACCESS FOR SERVICE SHALL BE LOCATED OVER ACOUSTICAL CEILINGS. NO ACCESS HATCHES SHALL BE INSTALLED IN GYPSUM BOARD CEILINGS WITHOUT PRIOR APPROVAL BY OWNER.
- SPRINKLER HEADS ARE TO BE CENTERED BETWEEN LIGHTS IN A UNIFORM ARCHITECTURAL
- LOCATE RECESSED DOWN LIGHTS, WALL WASHERS, SMOKE DETECTORS, EXIT SIGNS, SPEAKERS, FIRE SPRINKLERS, ETC. IN CENTER OF 24"X24" SECTION OF SECOND LOOK CEILING TILES.
- PROVIDE BACK-UP POWER FOR EXIT SIGNS PER STATE & LOCAL CODES. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED TO A LEVEL OF

NOT LESS THAN ONE FOOT CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE

- EMERGENCY LIGHTING SHALL HAVE (2) SEPARATE SOURCES OF POWER & SHALL COMPLY WITH
- 0. CONTRACTOR SHALL PROVIDE EMERGENCY LIGHTING, STROBE LIGHTS, AUDIO-VISUAL ALARMS & OCCUPANCY SENSORS TO MEET ALL APPLICABLE CODES.
- CONTRACTOR SHALL PROVIDE LAMPS WITH TYPE IC RATED HOUSING WHERE FIXTURES COME IN DIRECT CONTACT WITH INSULATION.
- 2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES & SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT
- 3. INSTALL SUSPENDED CEILING GRID PER DETAIL 4/A3.0, TYP.

SERVED BY THE MEANS OF EGRESS IS OCCUPIED.

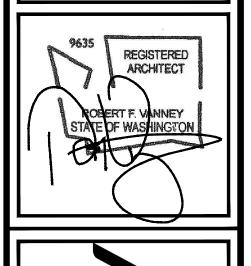


- 1) ALL FIRE SPRINKLERS TO BE SEMI-RECCESSED. COLOR: WHITE SPRINKLER HEADS TO BE WHITE. AVOID STROBES IN SOFFITS. CENTER SPRINKLER HEAD IN 24" X 24" SECTION OF SECOND LOOK CEILING TILE.
- 2) ALL LIGHT FIXTURES ATTACHED TO CEILING GRID MUST ALSO BE INDEPENDENTLY SUPPORTED. SEE DETAIL 4/A3.0.
- (3) CEILING MOUNTED DATA.

LESS THAN 90 MINS.

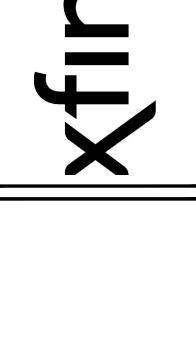
- (4) NEW CEILING GRID/ TILE TO BE CENTERED IN THIS ROOM.
- (5) NOT USED.
- (6) EXISTING LIGHTING TO REMAIN. VERIFY FUNCTIONALITY. CLEAN TO "LIKE NEW" CONDITION. REPLACE/REPAIR/RELAMP AS REQUIRED.

55 EAST 5TH STREET, STE. 75 651. 222. 4642 FAX. 651. 222. 303 City of Puyallup
Development & Permitting Services
ISSUED PERMIT Building Planning Engineering Public Works



Traffic

Fire



I HILL MALL MERIDIAN AVE. #503

LIGHTING LEGEND

CEILING MOUNTED EXIT SIGN WITH RED LETTER IN CLEAR BACKGROUND - BEST LIGHTING PRODUCTS - REF. ELXTEU-R-C-A-EM

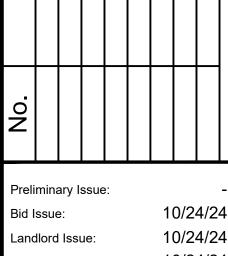
2'X4' LAY-IN LED LIGHT FIXTURE MANF. SOLAIS REF: FP24-40K-5100-WH

2'X4' ARMSTRONG PRODUCT SAHARA SCORED II ACOUSTICAL TILE WITH TEGULAR EDGE IN WHITE -

SET WITHIN PRELUDE ML EXPOSED T-GRID

5/8" TYPE "X" GYPSUM BOARD CEILING

4" ROUND RECESSED DOWN LIGHT MANF. SOLARIS REF: XR4nc-d-xM24-40-40K/2400-SV/SV

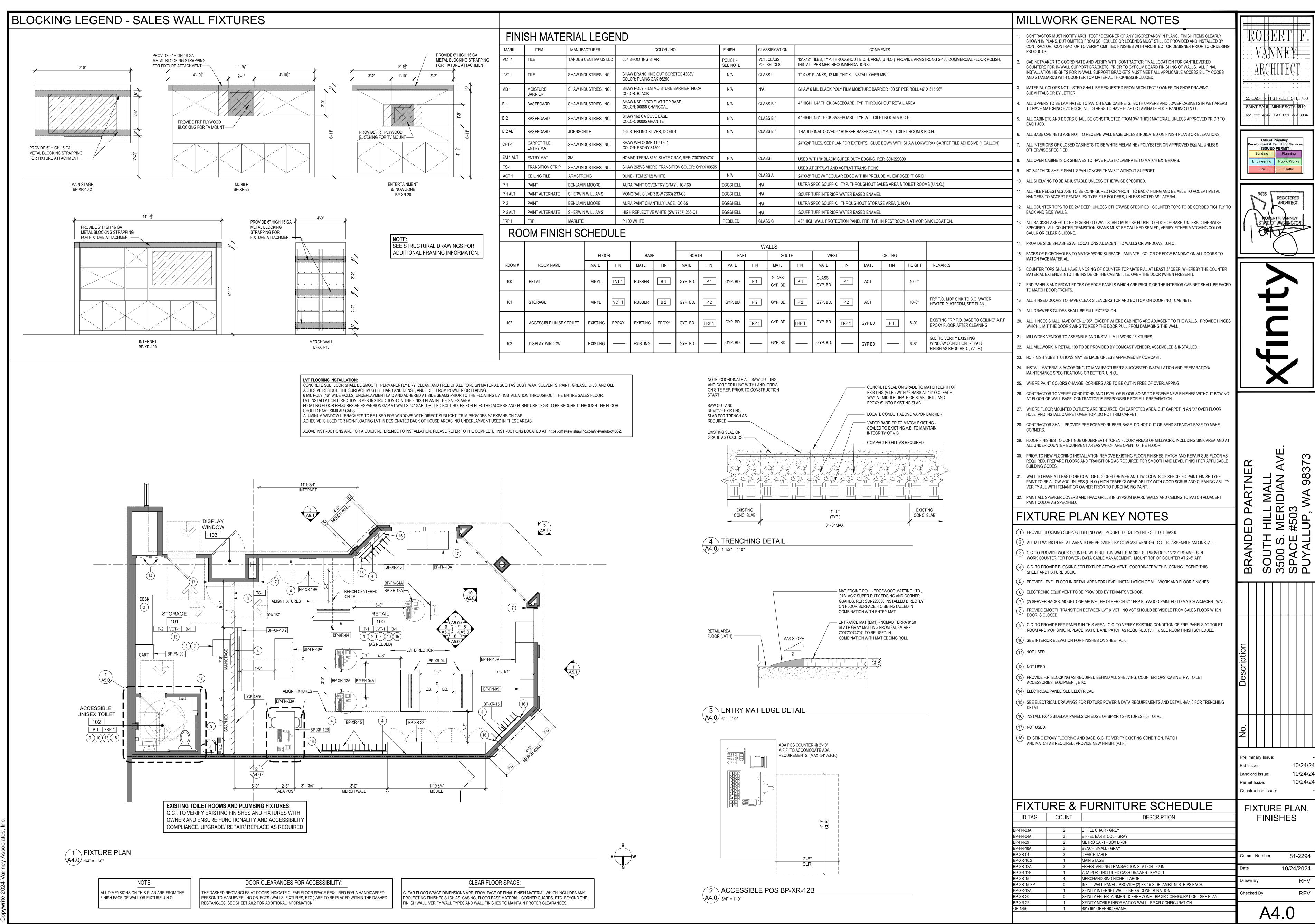


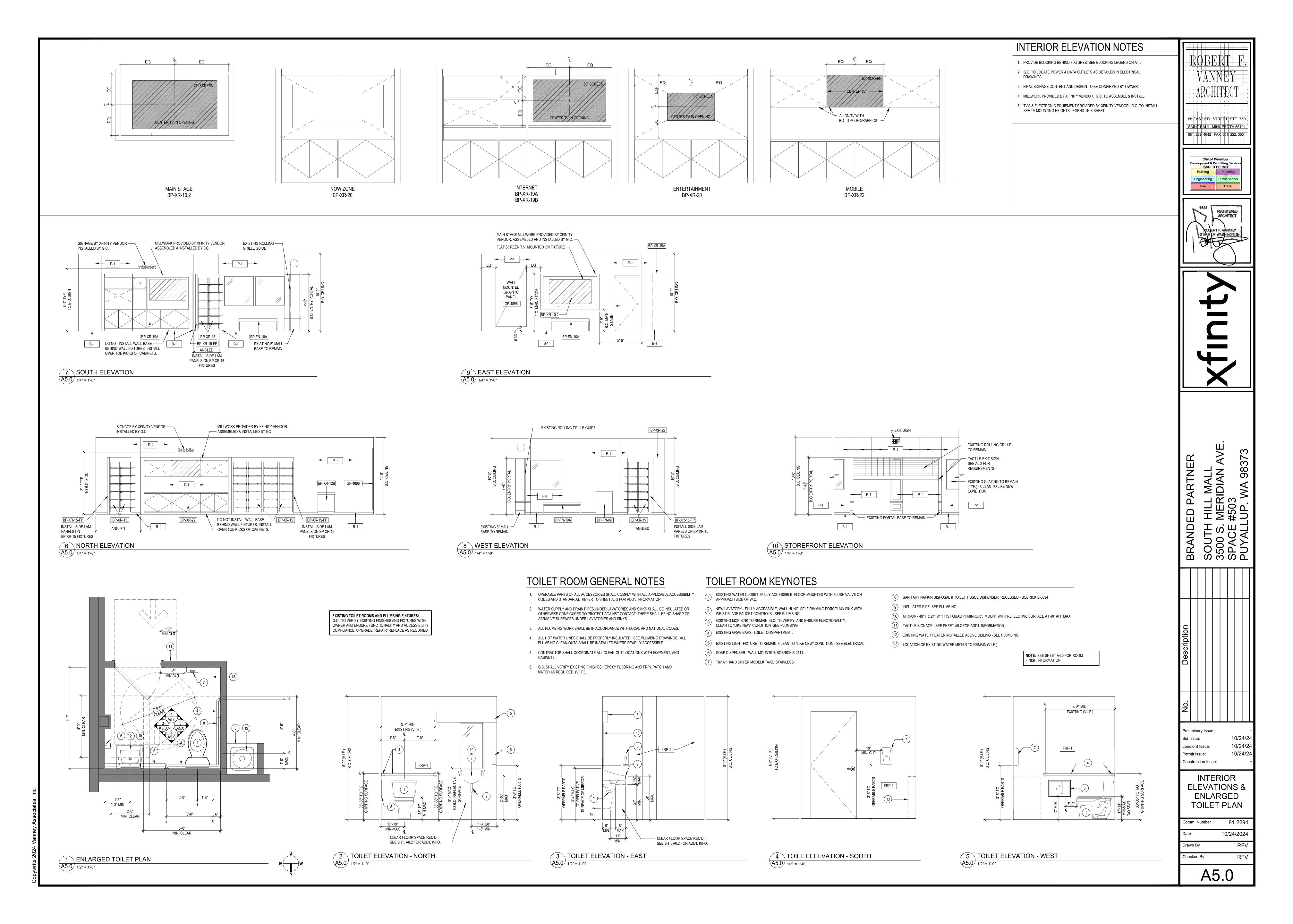
10/24/24 Permit Issue: Construction Issue: REFLECTED

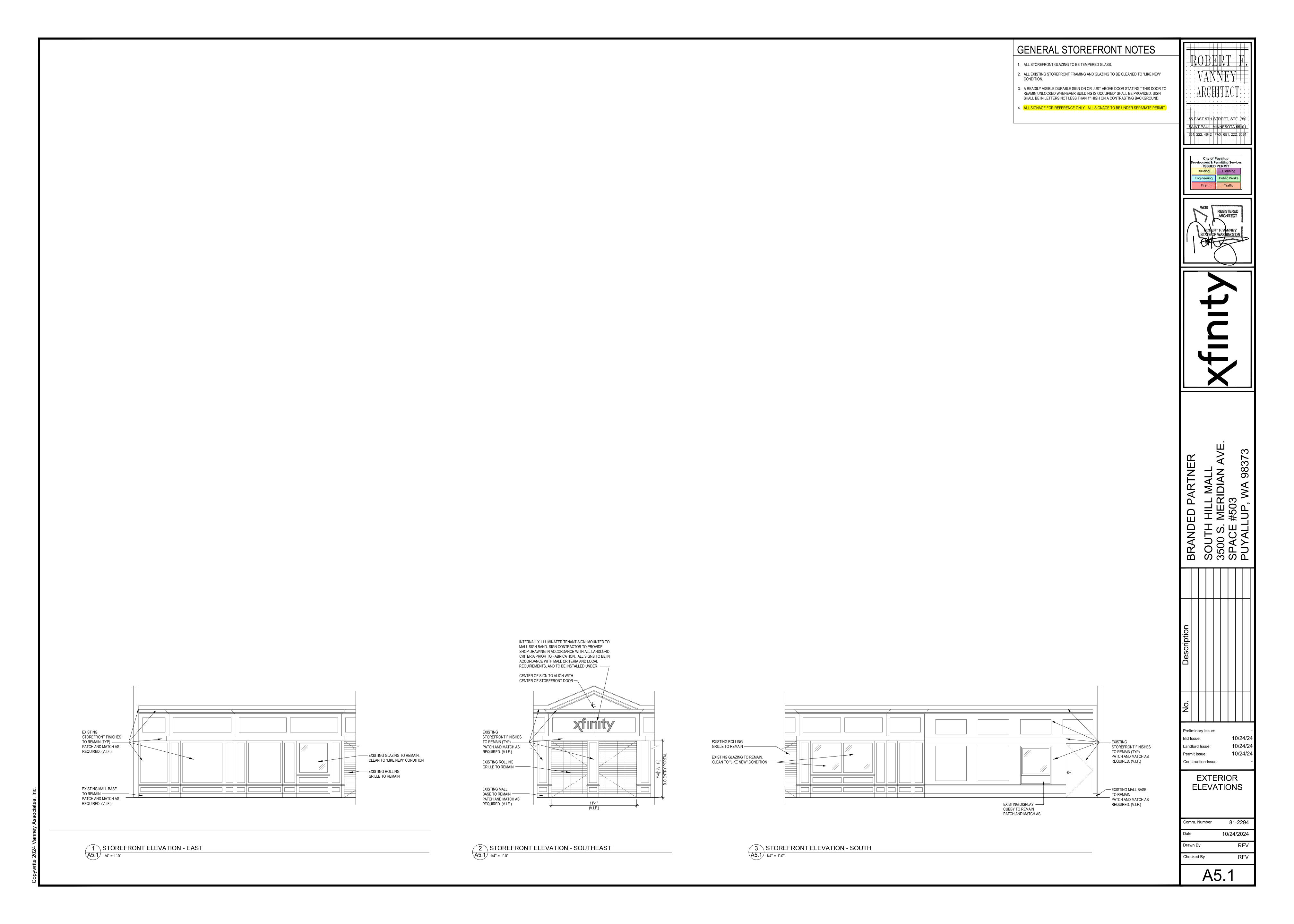
CEILING PLAN

81-2294 10/24/2024

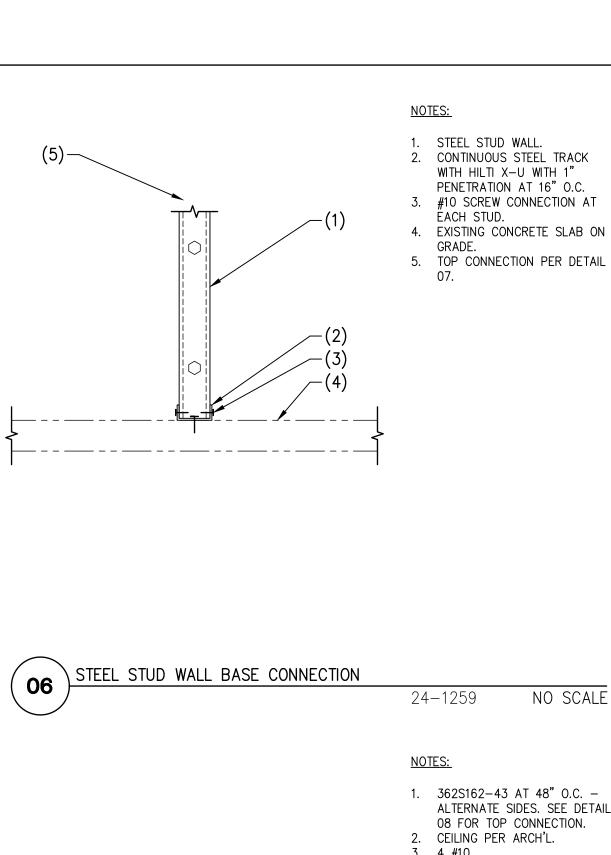
A3.0

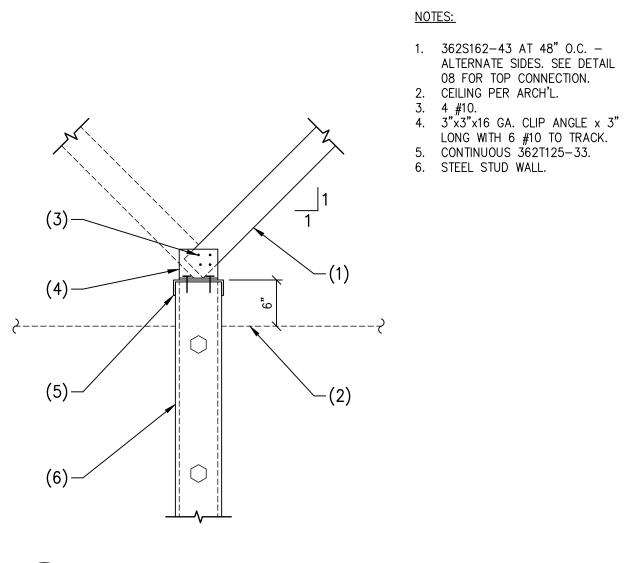






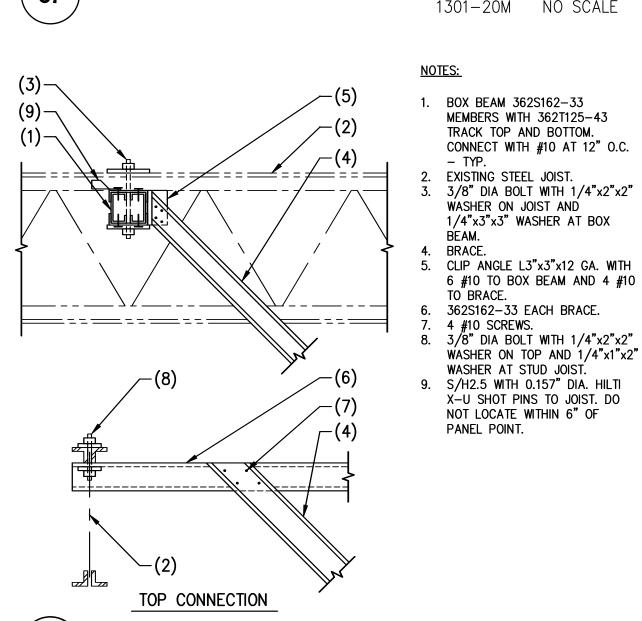
FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS. **ABBREVIATIONS** ABBREV2 NOTE: ABBREVIATIONS MAY OR MAY NOT HAVE — OCCUPATIONAL SAFETY AND PERIODS, BUT SHALL BE READ AS SAME. **HEALTH ADMINISTRATION** DWG(S) — DRAWING(S) — POWDER ACTUATED FASTENER — ANCHOR BOLT — END TO ČENTERLINE - SIMPSON POWDER DRIVEN PIN --- END TO END A.B.C. — AGGREGATE BASE COURSE 'A' TOP HAT - SIMPSON POWDER DRIVEN PIN E.O.S. — EDGE OF SLAB - AIR CONDITIONER WITH TOP HAT (0.300" HEAD) — FQUAI - PRECAST/PRESTRESSED CONCRET - ABOVE FINISHED FLOOR EQUIP — EQUIPMENT EXP. BOLT (E.B.) — EXPANSION BOLT - AMERICAN INSTITUTE OF STEEL AISC-INSTITUTE CONSTRUCTION EXP. JT (E.J.) — EXPANSION JOINT PRECAST CONCRETE - AMERICAN IRON AND STEEL — POUNDS PER CUBIC FOOT — FINISHED FLOOR INSTITUTE — POUNDS PER LINEAR FOOT - AMERICAN INSTITUTE OF TIMBER — FACE OF MEMBER - PLUS OR MINUS CONSTRUCTION F.O.S. — FACE OF STEEL — ALTERNATE F.O.W. ——— —— FACE OF WALL — POUNDS PER SQUARE FOOT —— GAGE (UNIT OF MEASUREMENT) - AMERICAN NATIONAL STANDARDS GALV — GALVANIZED —— POST—TENSIONING INSTITUTE - AMERICAN PLYWOOD ASSOCIATION | - GENERAL STRUCTURAL NOTES G.S.N. ——— GLB (GLULAM) —— GLUED-LAMINATED BEAM ARCH'L ------ ARCHITECTURAL REINF ----- REINFORCING - STEEL DECK INSTITUTE — HEM FIR HORIZ ----— SHORT LEG HORIZONTA AND MATERIALS - AMERICAN WELDING SOCIETY —— SHORT LEG VERTICAL ----- INTERNATIONAL BUILDING CODE - STEEL JOIST INSTITUTE A.W.H.S. — AUTOMATIC WELDED HEADED - INTERNATIONAL CONFERENCE OF ICBO — - AUTOMATIC WELDED THREADED BUILDING OFFICIALS ---- SQUARE - INTERNATIONAL CODE COUNCIL STUDS - STEEL STUD MANUFACTURERS - INSULATED CONCRETE FORMS ASSOCIATION I.F.W.——INSIDE FACE OF WALL B.F.F ———— BELOW FINISHED FLOOR --- STANDARD — BLOCK I.O.D.—— — INTERPRETATION OF DRAWINGS --- STEEL - BOTTOM OF BEAM JST — JOIST B.O.B. — TOTAL LOAD K(KIP) — 1000 POUNDS T.O.B. — TOP OF BEAM B.O.D. — BOTTOM OF DECK KLF KIPS PER LINEAR FOOT B.O.F. -— BOTTOM OF FOOTING T.O.C.T. — TOP OF CONCRETE TOPPING LBS (#) ——— POUNDS T.O.D. TOP OF DECK — BFARING I GR ———— I FDGFR T.O.F. — TOP OF FOOTING LGS — LIGHT GAGE STEEL CENTERLINE TO CENTERLINE T.O.L. — TOP OF LEDGER LGSEA — LIGHT GAGE STEEL ENGINEERS T.O.M.—— TOP OF MASONRY CFS — COLD FORMED STEEL — CENTER OF GRAVITY —— TOP OF PLATE L.O.D.——LOCATION OF DETAILS T.O.P.C. — TOP OF PRECAST CONCRETE C.I.P. ——— CAST IN PLACE LL — LIVE LOAD C.L. CENTERLINE T.O.S. — TOP OF STEEL LLH ——— LONG LEG HORIZONTAL C.L.B. — CENTERLINE OF BEAM T.O.W.——— TOP OF WALL LLV ———— LONG LEG VERTICAL C.L.C. — CENTERLINE OF COLUMN TPI TRUSS PLATE INSTITUTE MAS — MASONRY C.L.F. — CENTERLINE OF FOOTING TYP TYPICAL MAS C.J. — MASONRY CONTROL JOINT C.L.W. — CENTERLINE OF WALL — TONGUE AND GROOVE MAX — MAXIMUM —— UNIFORM BUILDING CODE CIR------- CLEAR --- METAL BUILDING MANUFACTURERS | U.N.O.---------- UNLESS NOTED OTHERWISE CONC — CONCRETE ASSOCIATION CONC C.J. ——— CONCRETE CONTROL JOINT VERT — VERTICAL REINFORCING MECH'L — MECHANICAL CONC S.J. — CONCRETE SAWCUT JOINT WCLA — WEST COAST LUMBER ASSOCIATION C.M.U. — CONCRETE MASONRY UNIT MFR'D — MANUFACTURERED WCLIB WEST COAST LUMBER INSPECTION MFR('S) — MANUFACTURER('S) — CONNECTION MIN MINIMUM W.W.F.— WELDED WIRE FABRIC ------ CONTINUOUS N/A — NOT APPLICABLE - CONCRETE REINFORCING STEEL WWPA WESTERN WOOD PRODUCTS CRSI---N.T.S. — NOT TO SCALE ASSOCIATION O.C. — ON CENTER D.F. (D.F.L.) — DOUGLAS FIR LARCH w/ _____ wth O.F.W.——OUTSIDE FACE OF WALL DL ______ DEAD LOAD W/C — WATER TO CEMENT RATIO OPP — OPPOSITE w/o — without





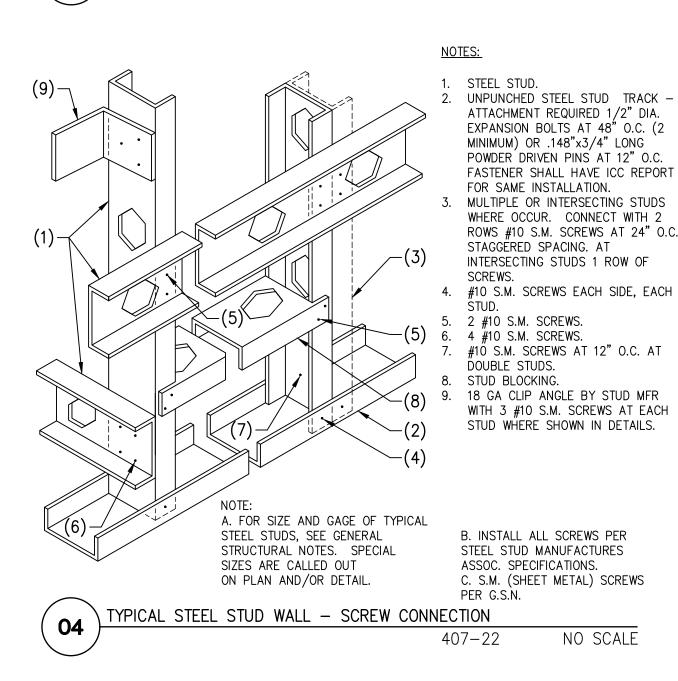
STUD WALL TOP CONNECTION

BRACE TO EXISTING JOIST



1301-60

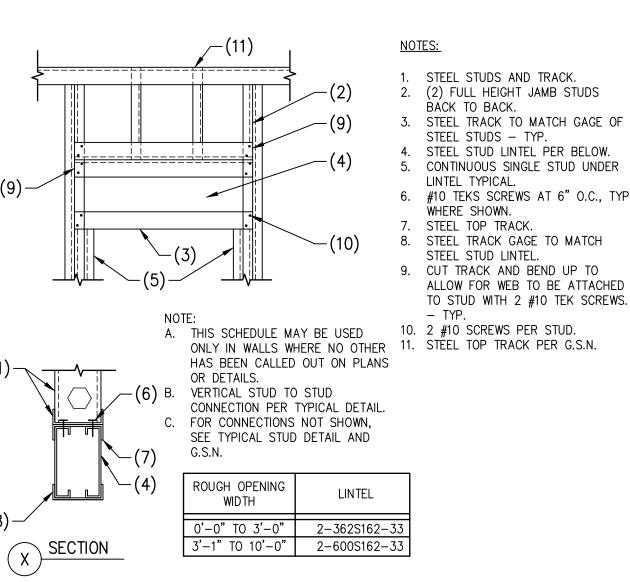
NO SCALE



MAX WALL HEIGHT

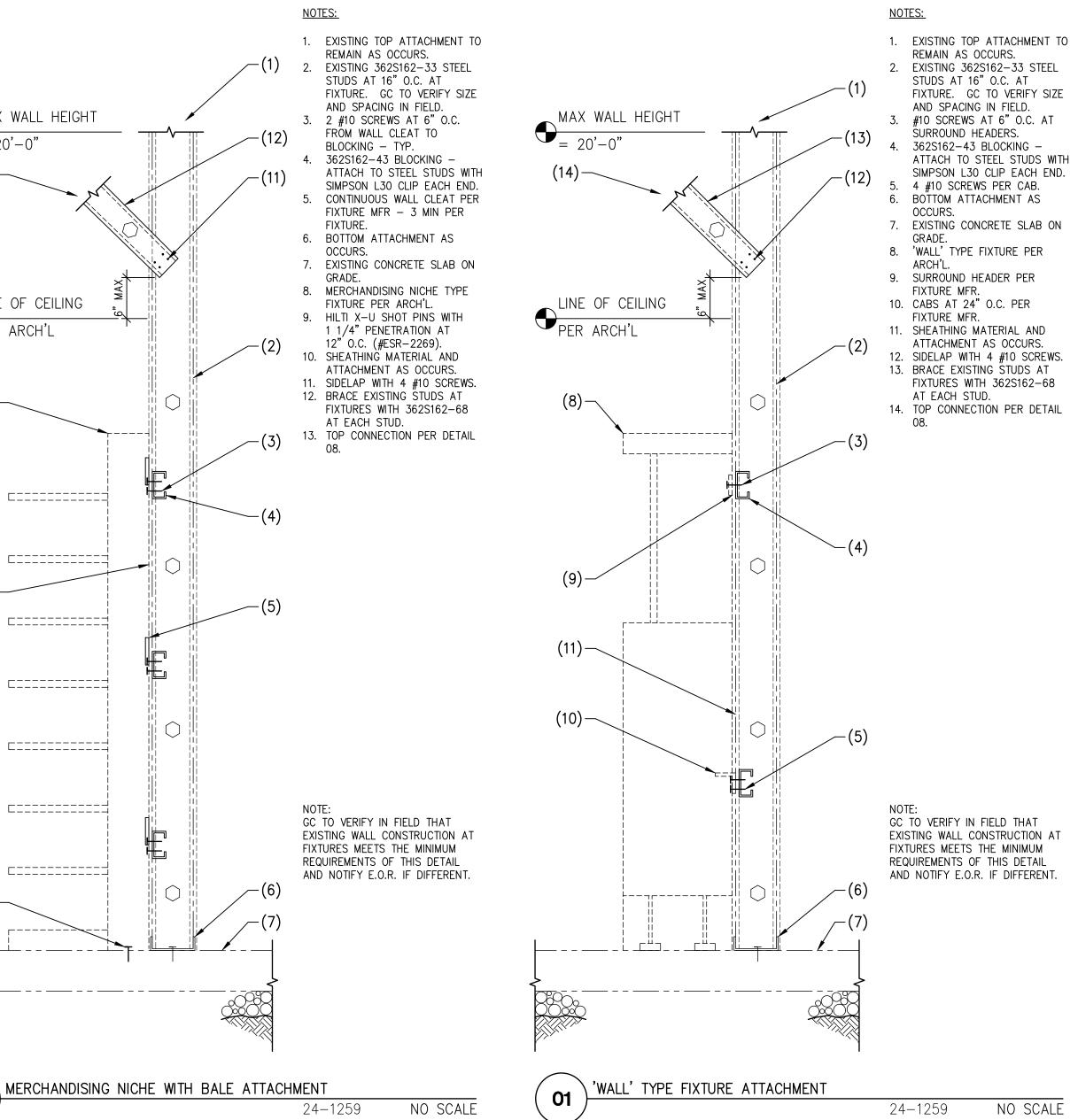
LINE OF CEILING

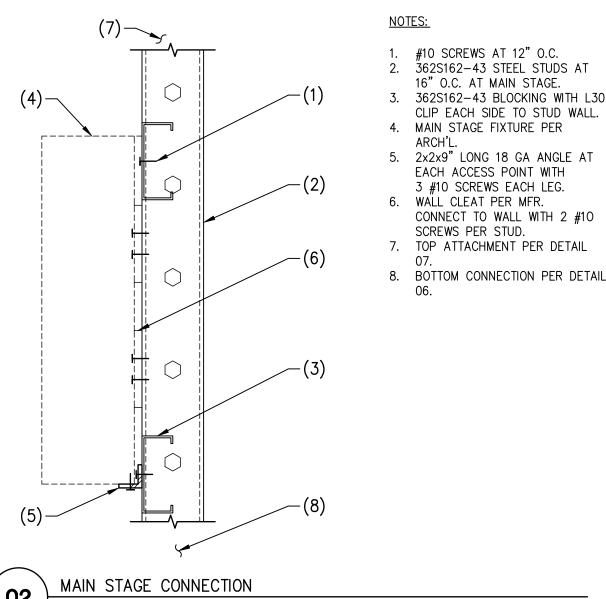
PER ARCH'L



TYPICAL LINTELS IN STRUCTURAL STEEL STUD WALL

24-1259 NO SCALE





3. 362S162-43 BLOCKING WITH L30 8. BOTTOM CONNECTION PER DETAIL

24-1259

NO SCALE

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL

CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY -NOT FOR

PROJECT NUMBER 24-1259 PROJECT MANAGER RAD

CARUSO - TURLEY - SCOTT - INC

consulting structural engineers

1215 West Rio Salado Parkway, Suite 200

Tempe, Arizona 85281 (480) 774-1700 (774-1701 FAX) www.ctsaz.com

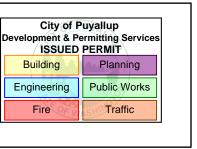
STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

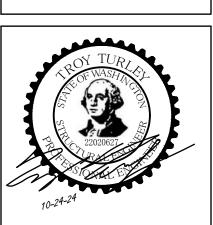
PROJECT ENGINEER NSC PROJECT DRAFTER

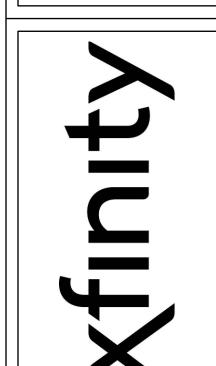
RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

55 EAST 5TH STREET, STE. 750

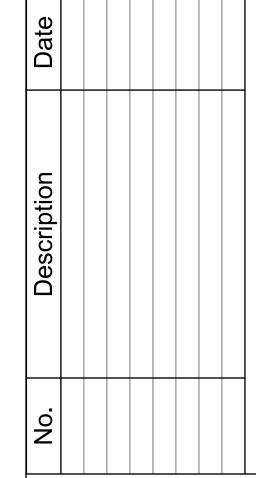
SAINT PAUL, MINNESOTA 55101 651. 222. 4642 FAX. 651. 222. 3034







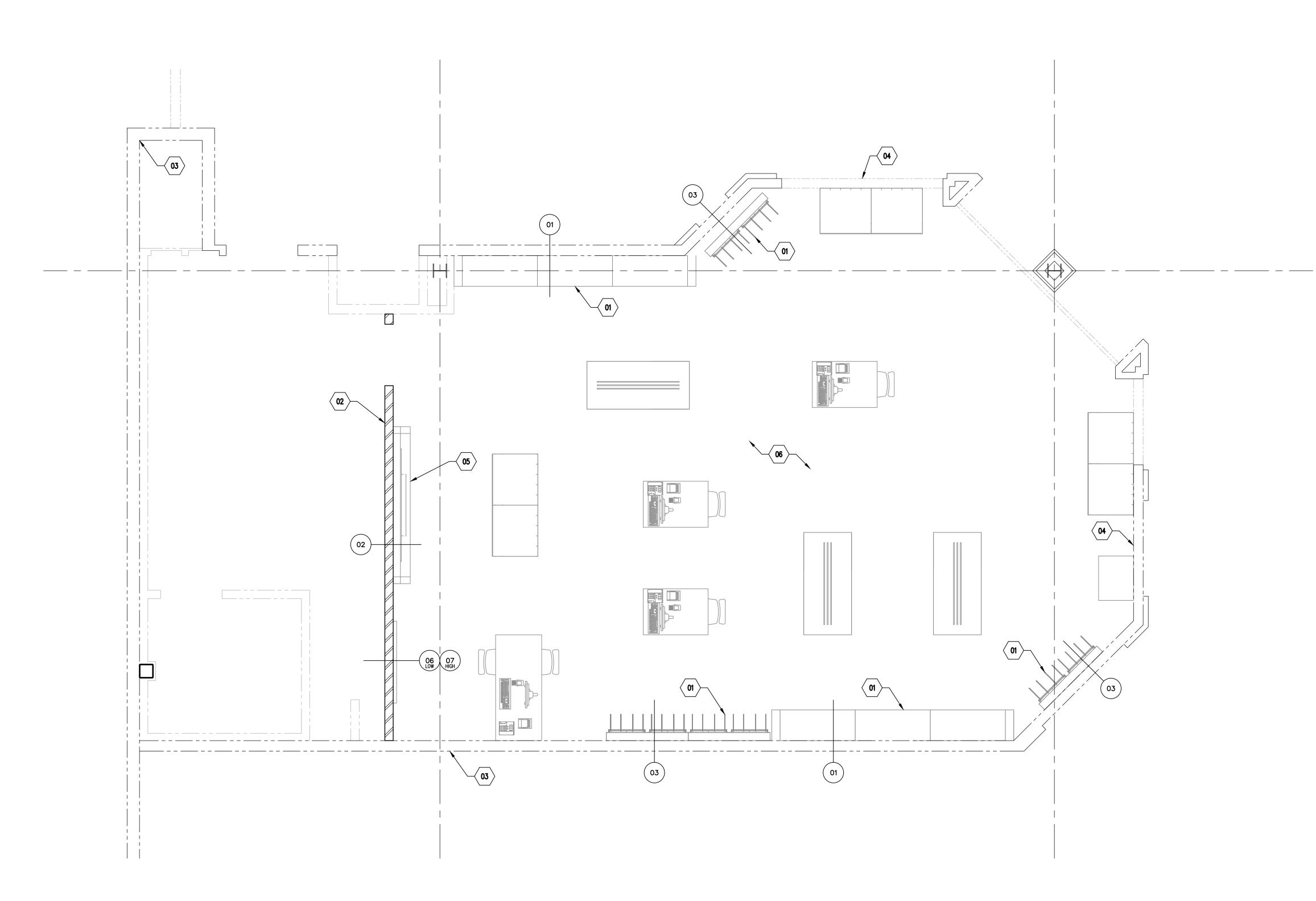
L R M 28 တက္ကေတ



Preliminary Issue: 10/24/24 Bid Issue: 10/24/24 _andlord Review: 10/24/24 Permit Issue: Construction Issue:

G.S.N. AND TYPICAL DETAILS

81-2294 Comm. Number 10/24/2024 Drawn By NSC Checked By



FIXTURE PLAN

SCALE: 3/8" = 1'-0"

FLOOR PLAN NOTES - TYP U.N.O.:

VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. BUILDING DIMENSIONS, WHERE SHOWN, WERE PROVIDED BY THE ARCHITECT AND SHALL BE VERIFIED WITH SAME PRIOR TO PROCEEDING WITH THE WORK. DO NOT USE CONC C.J. FOR LOCATING BUILDING ELEMENTS.

2. (1), (2), ETC. — AS SHOWN ON PLAN INDICATES KEYNOTES, SEE FLOOR PLAN KEYNOTES ON THIS SHEET. KEYNOTE DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

- 3.

 AS SHOWN ON PLAN INDICATES STEEL STUD WALL, SEE PLAN FOR SIZES AND SPACING. FOR LINTELS IN STEEL STUD WALLS, SEE DETAIL 05 TYP U.N.O. FOR BASE AND TOP CONNECTIONS, SEE DETAILS 06 AND 07. SEE G.S.N., TYPICAL DETAILS, PLANS AND OTHER DETAILS FOR ADDITIONAL INFORMATION.
- 5. THE EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY.

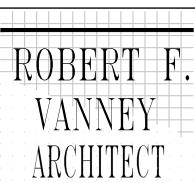
FIXTURE FLOOR PLAN KEYNOTES

940–1

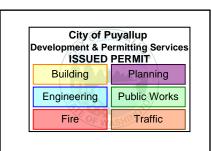
- 1 WALL FIXTURE PER ARCH'L.
- igg(2igg) NEW OR EXISTING STEEL STUD WALLS PER ARCH'L.
- 3 EXISTING BUILDING WALLS TO REMAIN.
- EXISTING STOREFRONT TO REMAIN.
- 5 WALL MOUNTED MAIN STAGE.
- 6 EXISTING CONCRETE SLAB ON GRADE.

EXISTING CONDITIONS NOTE - TYP U.N.O.:

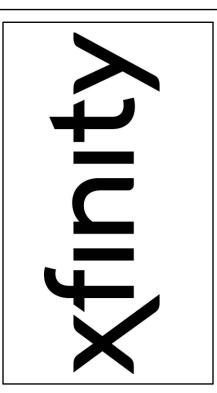
THE EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE ASSUMPTIONS BASED ON THE BEST AVAILABLE INFORMATION PROVIDED BY ARCHITECT AT TIME OF DESIGN AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY. REDESIGN AND ANALYSES MAY BE REQUIRED.



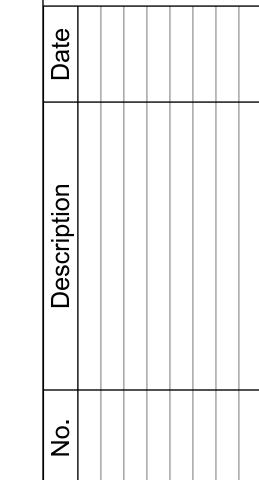
55 EAST 5TH STREET, STE. 750 SAINT PAUL, MINNESOTA 55101 651, 222, 4642 FAX, 651, 222, 3034







SOUTH HILL MALL 3500 S. MERIDIAN AVE. SPACE #503 PUYALLUP, WA 98373



Preliminary Is

Bid Issue: 10/2
andlord Review: 10/2
Permit Issue: 10/2

Construction Issue: --

FIXTURE PLAN

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY -NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER 24-1259 PROJECT MANAGER RAD PROJECT ENGINEER NSC PROJECT DRAFTER HN

CARUSO • TURLEY • SCOTT • INC consulting structural engineers
1215 West Rio Salado Parkway, Suite 200
Tempe, Arizona 85281 (480) 774-1700 (774-1701 FAX)
www.ctsaz.com

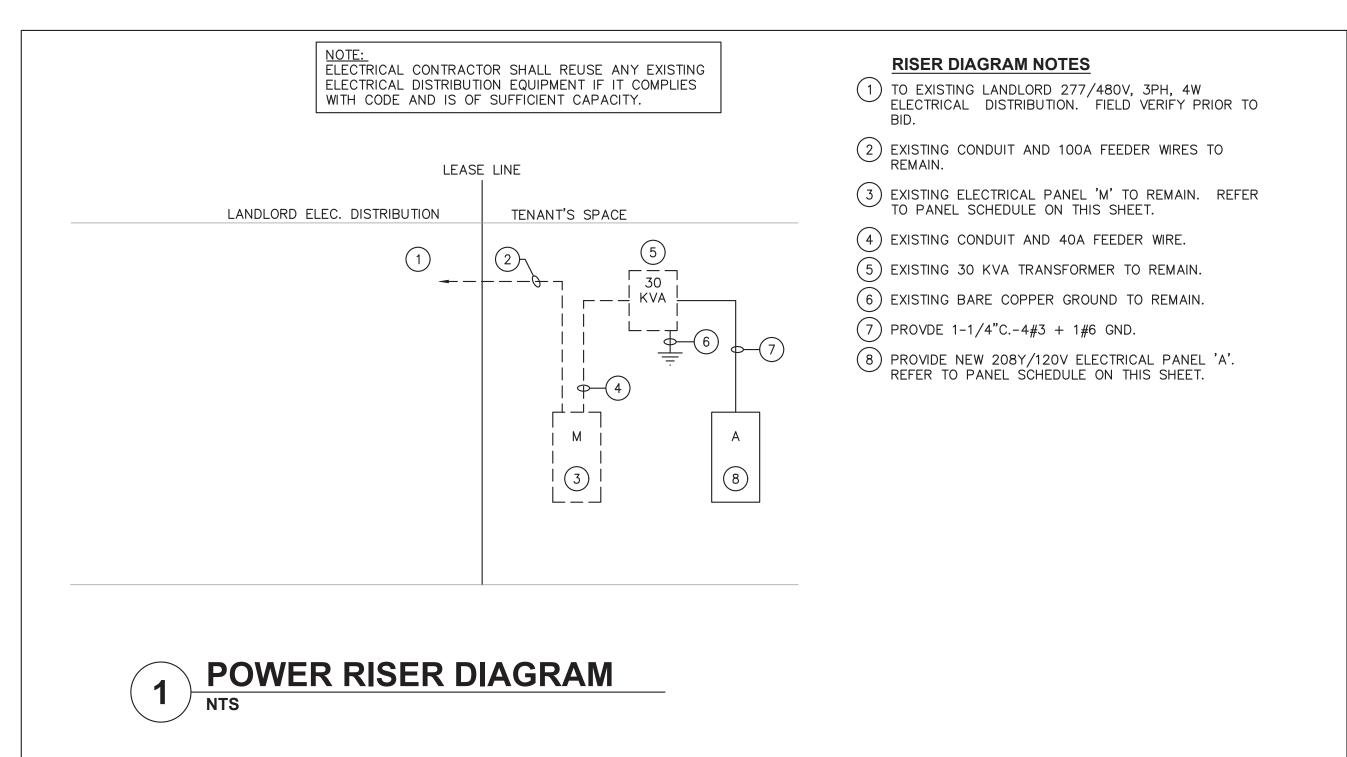
 Comm. Number
 81-2294

 Date
 10/24/2024

 Drawn By
 HN

 Checked By
 NSC

S2.1



NOTE:
EXISTING CONDITIONS WERE TAKEN FROM SITE SURVEY INFORMATION AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS. COORDINATE WITH LANDLORD CONSTRUCTION PROJECT MANAGER PRIOR TO INSTALLATION AND BIDS.

| | | | | EXIS | NIT | G P | ANE | L 'M | • | | | |
|-------------------------------------|------------|------|----------|------|-----------|-----------|-----------|------|---------|---|------------|-----------------------------|
| Location: Storage Mounting: Surface | | | EXISTING | | | | | | | 480Y/277 Volt, 3ø, 4w Main: MLO 125A | | |
| Circuit Description | KVA | СВ | NO. | NOTE | Α | В | С | NOTE | NO. | СВ | KVA | Circuit Description |
| SPACE | | | 1 | | Χ | | | | 2 | | | SPACE |
| SPARE | | 20/1 | 3 | | | X | | | 4 | | | SPACE |
| SPARE | | 20/1 | 5 | | | | X | | 6 | | | SPACE |
| XRTU-1 | 5.7 5.7 | 30/3 | 7 | C | Х | Х | | D | 8 10 | 40/3 | 6.0 9.4 | EXISTING 30 KVA TRANSFORMER |
| | 5.7 | | 11 | | | | X | | 12 | 1004 (101-1004 L-101-1004) | 7.3 | |
| CONNECTED KVA: | 39.8 | | | | A 11.7 | B 15.1 | C 13.0 | | | | | DESIGN DEMAND KVA: 44.7 |
| CONNECTED HIGH PHASE AMPS: | 54.5 | | | | | | • | | | | | DESIGN DEMAND AMPS: 53.7 |

PANEL NOTES:

A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE. B - PROVIDE GFCI CIRCUIT BREAKER.

C - EXISTING CIRCUIT BREAKER TO REMAIN. NO NEW LOAD. BALANCE PHASE LOADS TO WITHIN 10%

| P. | ANEL M LOAD SU | MMARY | |
|-----------------------|----------------|--------|---------------|
| | CONNECTED | DESIGN | DESIGN DEMAND |
| | KVA | FACTOR | KVA |
| LIGHTING | 1.1 | 1.25 | 1.4 |
| RECEPTACLES | 3.3 | 1.0 | 3.3 |
| SIGN | 1.2 | 1.25 | 1.5 |
| WATER HEATER | 9.3 | 1.0 | 9.3 |
| HVAC - LARGEST | 17.1 | 1.25 | 21.4 |
| HVAC - REMAINING | 0.1 | 1.0 | 0.1 |
| HVAC - NON COINCIDENT | 0.0 | 1.0 | 0.0 |
| MISCELLANEOUS | 7.7 | 1.0 | 7.7 |
| | • | | • |
| TOTAL KVA: | 39.8 | | 44.7 |
| TOTAL AMPS: | 47.9 | | 53.7 |

| | | | | N | ΞW | PAN | IEL ' | A' | | | | |
|---------------------------------|------|------|-----|------|-----------------------|--------|--------|------|-----|------|----------------|------------------------------------|
| Location: Storage | | | | AIC | DATIA | 10: 40 | 000 44 | 4DC | | | | 208Y/120 Volt, 3ø, 4w |
| Mounting: Surface | | | | AIC | C RATING: 10,000 AMPS | | | | | | Main: MCB 100A | |
| Circuit Description | KVA | СВ | NO. | NOTE | Α | В | С | NOTE | NO. | СВ | KVA | Circuit Description |
| | 3.1 | | 1 | | X | | | Α | 2 | 20/1 | 0.1 | SALES AREA EXIT / EMERGENCY LIGHTS |
| XEWH-1 | 3.1 | 50/3 | 3 |] [| | X | | | 4 | 20/1 | 1.2 | STOREFRONT SIGN |
| | 3.1 | | 5 | | | | Χ | | 6 | 20/1 | | SPARE |
| DUCT SMOKE DETECTOR | 0.1 | 20/1 | 7 | | X | | | | 8 | 20/1 | 0.4 | SALES AREA 2X4 LIGHTING |
| STORAGE AREA RECEPTS / DOORBELL | 0.6 | 20/1 | 9 | | | X | | | 10 | 20/1 | 0.4 | SHOW WINDOW RECEPTACLES |
| RESTROOM LIGHTS/ EF-1 | 0.2 | 20/1 | 11 | | | | Χ | | 12 | 20/1 | 0.4 | SALES CONVENIENCE RECEPTACLES |
| BREAK COUNTER RECEPTACLE | 0.2 | 20/1 | 13 | | Χ | | | | 14 | 20/1 | 0.2 | HVAC RECEPTACLE |
| MANAGER DESK RECEPTACLES | 0.9 | 20/1 | 15 | | | X | | | 16 | 20/1 | 0.4 | ADA POS STATION |
| TIME CLOCK | 0.2 | 20/1 | 17 | Α | | | X | С | 18 | 20/1 | 0.6 | REFRIGERATOR |
| ENTRY DOWN LIGHTS | 0.3 | 20/1 | 19 | | Χ | | | | 20 | 20/1 | 0.4 | INTERNET ZONE WALL / FLOOR OUTLETS |
| SERVER RACK | 0.8 | 20/1 | 21 | Α | | X | | | 22 | 20/1 | 0.4 | MAIN STAGE |
| STORAGE ROOM LIGHTS | 0.2 | 20/1 | 23 | | | | X | | 24 | 20/1 | 0.6 | MOBILE WALL FIXTURE |
| SERVER RACK | 0.8 | 20/1 | 25 | Α | X | | | | 26 | 20/1 | 0.4 | DEVICE TABLES (x2) |
| HAND DRYER | 1.0 | 20/1 | 27 | | | X | | | 28 | 20/1 | 0.6 | DEVICE TABLE / POS TABLE |
| MICROWAVE | 1.2 | 20/1 | 29 | | | | X | | 30 | 20/1 | 0.8 | POS TABLE (x2) |
| SPACE | | | 31 | | Χ | | | | 32 | | | SPACE |
| SPACE | | | 33 | | | X | | | 34 | | | SPACE |
| SPACE | | | 35 | | | | X | | 36 | | | SPACE |
| SPACE | | | 37 | | X | | | | 38 | | | SPACE |
| SPACE | | | 39 | | | X | | | 40 | | | SPACE |
| SPACE | | | 41 | | | | Χ | | 42 | | | SPACE |
| | | | | | Α | В | С | | | | | |
| CONNECTED KVA: | 22.7 | | | L | 6.0 | 9.4 | 7.3 | | | | | DESIGN DEMAND KVA: 23.3 |
| CONNECTED HIGH PHASE AMPS: | 78.3 | | | | | | | | | | | DESIGN DEMAND AMPS: 64.7 |

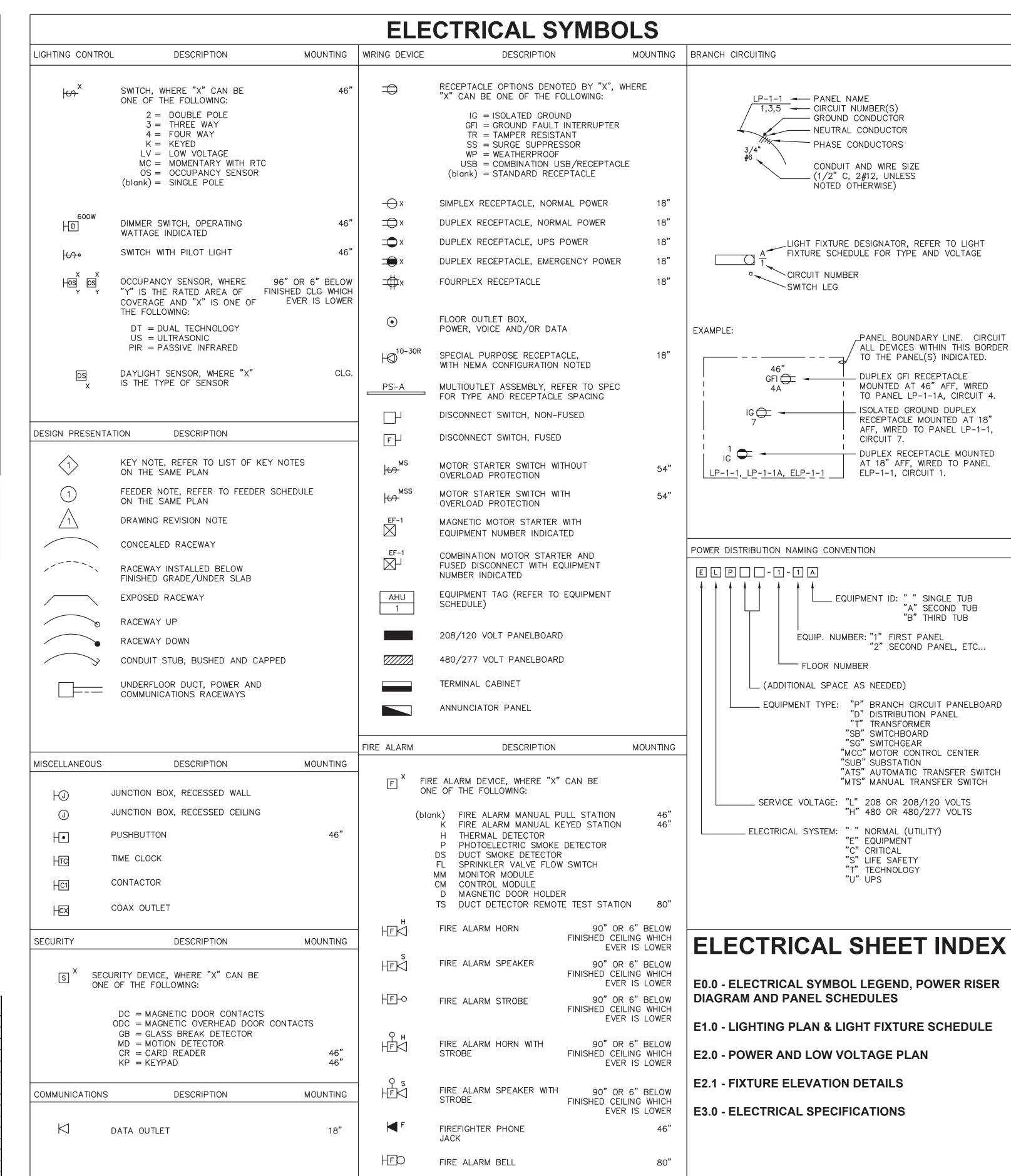
PANEL NOTES:

A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.

B - PROVIDE HACR CIRCUIT BREAKER. C - PROVIDE GFCI CIRCUIT BREAKER.

BALANCE PHASE LOADS TO WITHIN 10%

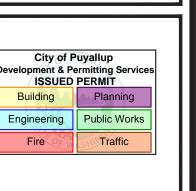
| F | PANEL 'A' LOAD SUI | MMARY | |
|-----------------------|--------------------|--------|---------------|
| | CONNECTED KVA | DESIGN | DESIGN DEMAND |
| | | FACTOR | KVA |
| LIGHTING | 1.1 | 1.25 | 1.4 |
| RECEPTACLES | 3.3 | 1.0 | 3.3 |
| SIGN | 1.2 | 1.25 | 1.5 |
| WATER HEATER | 9.3 | 1.0 | 9.3 |
| HVAC - LARGEST | 0.0 | 1.25 | 0.0 |
| HVAC - REMAINING | 0.1 | 1.0 | 0.1 |
| HVAC - NON COINCIDENT | 0.0 | 1.0 | 0.0 |
| MISCELLANEOUS | 7.7 | 1.0 | 7.7 |
| | | | |
| TOTAL KVA: | 22.7 | | 23.3 |
| TOTAL AMPS: | 63.1 | | 64.7 |

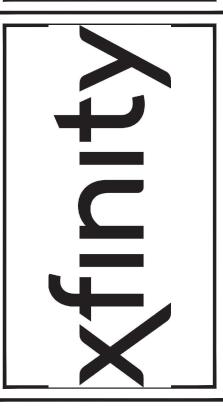


| | MECHANICAL EQUIPMENT SCHEDULE | | | | | | | | | | | | | | |
|------------------|-------------------------------|----------------|-----|------|----|--------|--|----|----------------------------------|------------------------|------------------------------|-------|-------------------|--------------|------|
| EQUIPMENT TAG | EQUIPMENT NAME | VOLT/ PHASE | MCA | MOCP | HP | KW | CONDUIT - WIRE | 1 | STARTER TYPE STARTER LOCATION | DISC. BY DISC. SIZE | DISC. TYPE DISC. LOCATION | PANEL | CIRCUIT NUMBER | FUSE SIZE | NOTE |
| XEWH-1 | EXISTING WATER HEATER | 120/1 | | | | EXIST. | INTERCEPT AND EXTEND EXISTING CONDUIT AND FEEDER WIRES TO NEW PANEL 'A' | - | _ | DIVISION 16 30A/1P | NEMA 1 AT UNIT | A | 1,3,5 | NA | |
| XEF-1 | EXISTING EXHAUST FAN | 120/1 | | | | EXIST. | INTERCEPT AND EXTEND EXISTING CONDUIT AND FEEDER WIRES TO NEW PANEL 'A' | NA | NA | NA | WALL SWITCH | A | 11 | NA | 1 |

SPRINKLER VALVE POSITION







A HILL MALL MERIDIAN / #503 LUP, WA 983 SOUTH 3500 S. I SPACE #

'NER

10/24/2024 Preliminary Issue: 10/24/2024 Bid Issue: 10/24/2024 Landlord Issue: 10/24/2024 Permit Issue: Construction Issue:

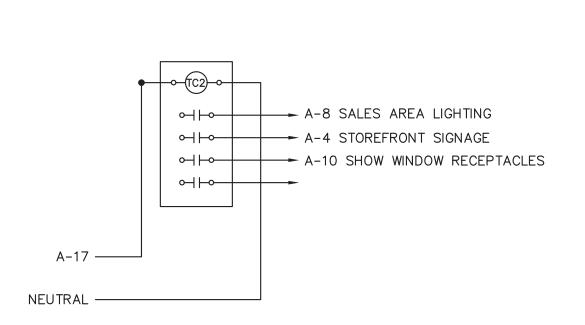
ELECTRICAL SYMBOL LEGEND AND TITLE SHEET

Comm. Number R24-4856.028 10/24/2024

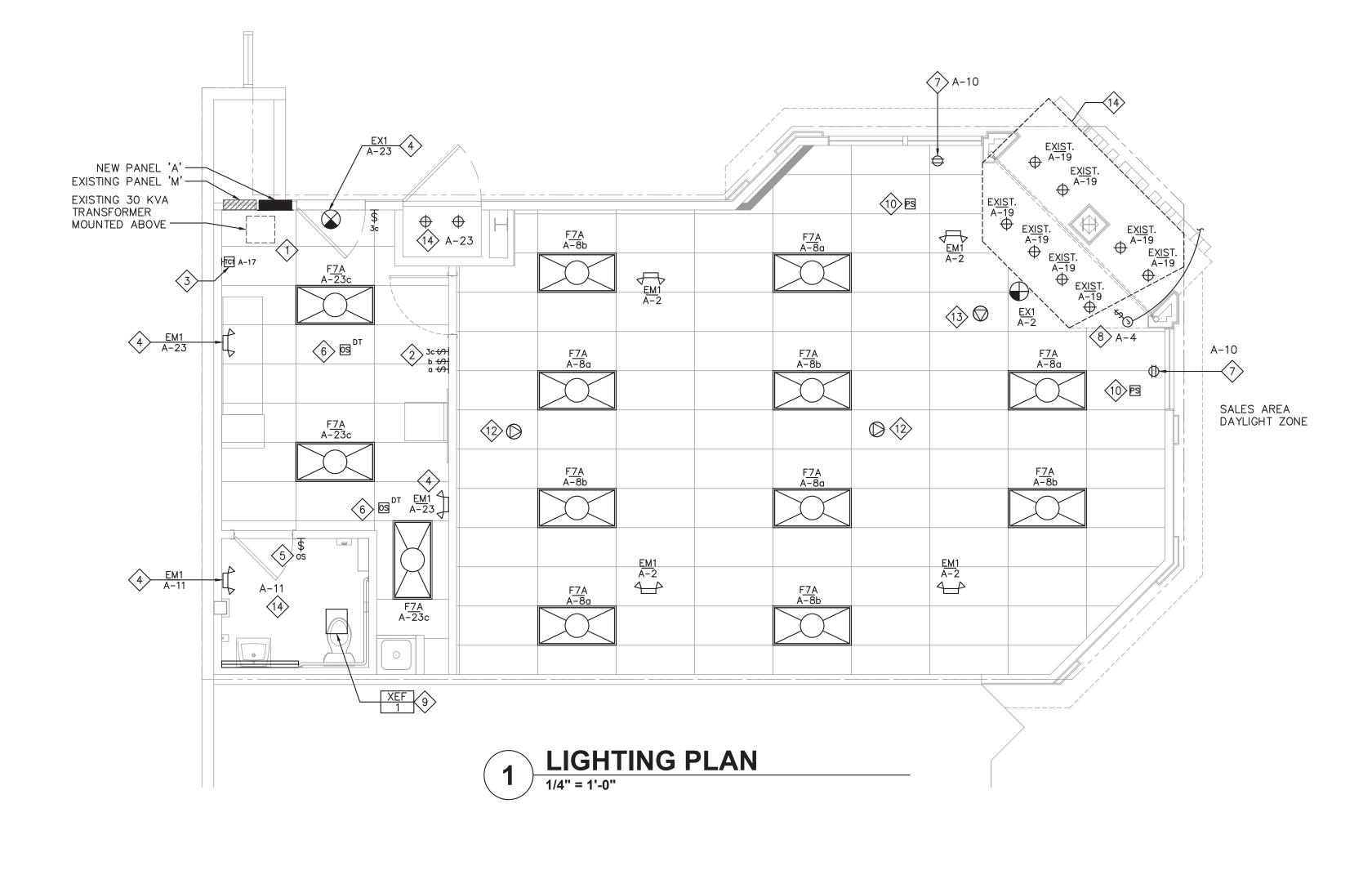
E0.0

NOTES:

1. EXHAUST FAN TO BE CONTROLLED WITH LOCAL LIGHTING CONTROL. REFER TO SHEET E1.0.







LIGHTING PLAN GENERAL NOTES

- A. MOUNTING TYPES INDICATED FOR EXIT LIGHTS (WALL, CEILING, ETC.) ARE INTENDED TO BE DIAGRAMMATIC ONLY TO INDICATE REQUIRED LOCATIONS. ELECTRICAL CONTRACTOR SHALL PROVIDE SPECIFIC TYPES OF MOUNTING HARDWARE AS REQUIRED BY FIELD CONDITIONS.
- B. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE THE TYPE OF CONSTRUCTION INTO WHICH EACH LIGHTING FIXTURE WILL BE INSTALLED AND TO FURNISH THE APPROPRIATE MOUNTING HARDWARE AND ACCESSORIES. SUCH APPURTENANCES ARE FURNISHED AND INSTALLED FOR ALL LIGHTING FIXTURES WHETHER SUPPLIED BY OWNER OR BY CONTRACTOR.
- C. EXPOSED RACEWAYS SUPPLYING LIGHTING FIXTURES (AND ALL OTHER ITEMS)
 SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. WHERE
 OFFSETS, "KICKS", ETC. ARE REQUIRED TO AVOID OBSTACLES ARE REQUIRED,
 THESE SHALL BE DONE IN A WORKMANLIKE MANNER WITHOUT KINKS, "DOGLEGS",
 ETC.
- D. INSTALLATION OF LIGHTING FIXTURES SHALL BE CAREFULLY COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS TO AVOID CONFLICTS WITH DUCTWORK, ARCHITECTURAL FEATURES, ETC.. WHERE CONFLICTS ARISE, CLARIFY WITH ARCHITECT PRIOR TO PROCEEDING WITH INSTALLATION.
- E. BASED ON LIGHTING MANUFACTURERS PUBLISHED DATA, EMERGENCY BATTERY LIGHTS ARE LOCATED TO PROVIDE ONE (1) FOOT CANDLE ALONG THE MEANS OF
- F. THIS CONTRACTOR SHALL MEET IN THE FIELD WITH FIRE INSPECTOR TO AIM AND ADJUST EMERGENCY LIGHTS AS HE DEEMS NECESSARY. CONTRACTOR SHALL ADD ADDITIONAL BATTERY LIGHTS AND EXIT SIGNS WHERE THE FIRE INSPECTOR SO DESIRES.
- G. RECESSED AND HIDDEN CONDUIT WILL BE AT ALL TENANT CONSTRUCTED DROPPED CEILINGS/SOFFITS, FITTING ROOM AREAS AND BACK DOOR/OFFICE
- H. RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, DUCT WORK, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRMLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS. PROVIDE TWO (2) HOLE MOUNTING STRAPS, MINIMUM THREE (3) FEET ON CENTER, FOR ALL SURFACE CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR. PLACE CONDUITS AT LEAST 8" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC HOT WATER LINES.
- I. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.J. REFER TO EO.O, ELECTRICAL SYMBOL LEGEND FOR BRANCH CIRCUITING AND FIXTURE LABELING CHARACTERICS.
- K. ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75' SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF 1 CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP REQUIREMENTS.
- L. 'NL' ADJACENT TO LIGHT FIXTURES INDICATES THAT LIGHT FIXTURE IS TO BE UTILIZED AS A NIGHT LIGHT FIXTURE AND SHALL REMAIN ON 24/7.

LIGHTING PLAN KEYED NOTES (#>

- LOCATION OF TENANT ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL PANELS SCHEDULE AND POWER RISER DIAGRAM ON SHEET E0.0 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE WALL SWITCHES 'a' AND 'b' FOR CONTROL OF SALES AREA LIGHTING. LOWER CASE LETTER INDICATES LIGHT FIXTURE TO BE CONTROLLED.
- 3. PROVIDE (1) 4 CHANNEL TIMECLOCKS (TC1) INTERMATIC MODEL #ET2145C FOR MASTER CONTROL OF EXTERIOR SIGN, SHOW WINDOW RECEPTACLES AND SALES AREA LIGHTING. REFER TO DETAIL 2 THIS SHEET. COORDINATE SETTINGS WITH STORE OPERATIONS.
- 4. EXIT SIGNS AND EMERGENCY LIGHTING CIRCUITS ARE TO BE WIRED AHEAD OF ALL SWITCHING AND CONTACTORS.
- 5. IF NOT EXISTING, PROVIDE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER: DW-100-24. PROVIDE BZ-50 POWER PACKS AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES. LIGHTING AND EXHAUST FAN ARE TO BE CONTROLLED BY NEW OCCUPANT SENSING WALL SWITCH.
- 6. PROVIDE CEILING MOUNTED 360° DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER: DT-305. PROVIDE BZ-200 POWER PACKS, AND ADDITIONAL WIRING AS REQUIRED. COORDINATE WITH MANUFACTURER. SET OCCUPANCY SENSOR TIMER TO 15 MINUTES.
- 7. PROVIDE (1) DUPLEX RECEPTACLE ABOVE SHOW WINDOW FOR EACH 12 FEET OR MAJOR FRACTION THEREOF OF SHOW WINDOW AREA MEASURED HORIZONTALLY AT ITS MAXIMUM WIDTH. COORDINATE EXACT MOUNTING METHOD AND LOCATION.
- 8. PROVIDE J-BOX AND DISCONNECTING MEANS FOR CONNECTION TO NEW TENANT SIGNAGE. COORDINATE EXACT REQUIREMENTS WITH SIGN VENDOR. SIGN CIRCUITS TO BE CONTROLLED BY TIMECLOCK 'TC1'. REFER TO KEY NOTE 3 AND DETAIL 2 THIS SHEET FOR FURTHER INFORMATION.
- 9. MECHANICAL EQUIPMENT. SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E0.0.
- 10. PROVIDE LIGHTSAVER SWITCHING PHOTOSENSOR (PS). WATTSTOPPER LS-102 DAYLIGHTING CONTROLLER AND BZ-150 POWER PACK FOR ON/OFF DAYLIGHT CONTROL OF GENERAL LIGHTING WITHIN THIS AREA. EXIT, EMERGENCY, AND DISPLAY LIGHTING IN THIS AREA ARE NOT REQUIRED TO BE CONTROLLED BY DAYLIGHT SENSOR.
- 11. NOT USED.
- 12. DATA OUTLET CEILING MOUNTED FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE CAT6 LOW VOLTAGE CABLE FROM DEVICE TO COMCAST SERVER RACK.
- 13. DATA OUTLET CEILING MOUNTED FOR SHOPPER TRAK SYSTEM. PROVIDE CAT6 LOW VOLTAGE CABLE FROM DEVICE TO BRANDED PARTNER SERVER RACK.
- 14. EXISTING LIGHT FIXTURE IN THIS AREA TO REMAIN. INTERCEPT AND EXTEND EXISTING CIRCUITRY TO NEW PANEL 'A'. REPLACE, REPAIR, OR RELAMP AS

| LIGHT FIXTURE SCHEDULE |
|------------------------|
|------------------------|

| LIGHT TYPE | DESCRIPTION | MANUFACTURER MODEL NUMBER | MOUNTING | LAMP QTY | LAMP TYPE | WATTS | VOLTAGE |
|---------------|---|------------------------------------|-----------------|-------------|-------------------|-------|---------|
| F7A | LAY-IN 2X4 LED LIGHT | SOLAIS FP24/840/50S/WH | RECESSED | 1 | 44W LED PANEL | 44W | 120 |
| EM1 | EMERGENCY BUGEYE, 2X3W LED HEADS. | LIGHT ALARMS EVHC-6 | SURFACE | 2 | INTEGRAL 3W LED | 6W | 120 |
| EX1 | EDGELIT LED EXIT SIGN, SINGLE FACE RED LETTERS, CLEAR PANEL, ALUMINUM HOUSING. EMERGENCY BATTERY BACK-UP. | BEST LIGHTING ELXTEU-1-R-C-A-EM | ACT/ SURFACE | 1 | INTEGRAL 2.3W LED | 2.3W | 120 |

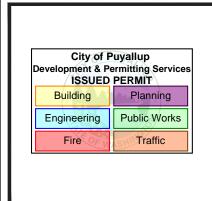
<u>LIGHT FIXTURE SCHEDULE NOTES:</u> 1. VOLTAGES TO BE REVIEWED AND CONFIRMED.

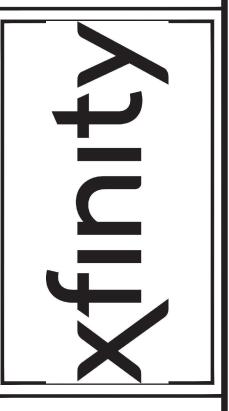
- 2. ALL FINISHES TO BE CONFIRMED BY ARCHITECT.
- 3. ALL LIGHTS ARE TO BE PROVIDED WITH REQUIRED HARDWARE FOR MOUNTING, AND ANY AUXILLIARY DRIVERS OR GEAR FOR A

FULLY FUNCTIONAL LUMINAIRE READY FOR FINAL HOOK-UP PROVIDED BY CONTRACTOR.

4. FOR ANY LUMINAIRES REQUIRING A PAINT FINISH OR MATERIAL FINISH CONFIRMATION, MANUFACTURER TO PROVIDE FINISH SAMPLES FOR APPROVAL PRIOR TO PRODUCTION.







BRANDED PARTNER
SOUTH HILL MALL
3500 S. MERIDIAN AVE.
SPACE #503
PUYALLUP, WA 98373

| Description | | | | | | PRC 1120241698 | |
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 Landlord Issue:
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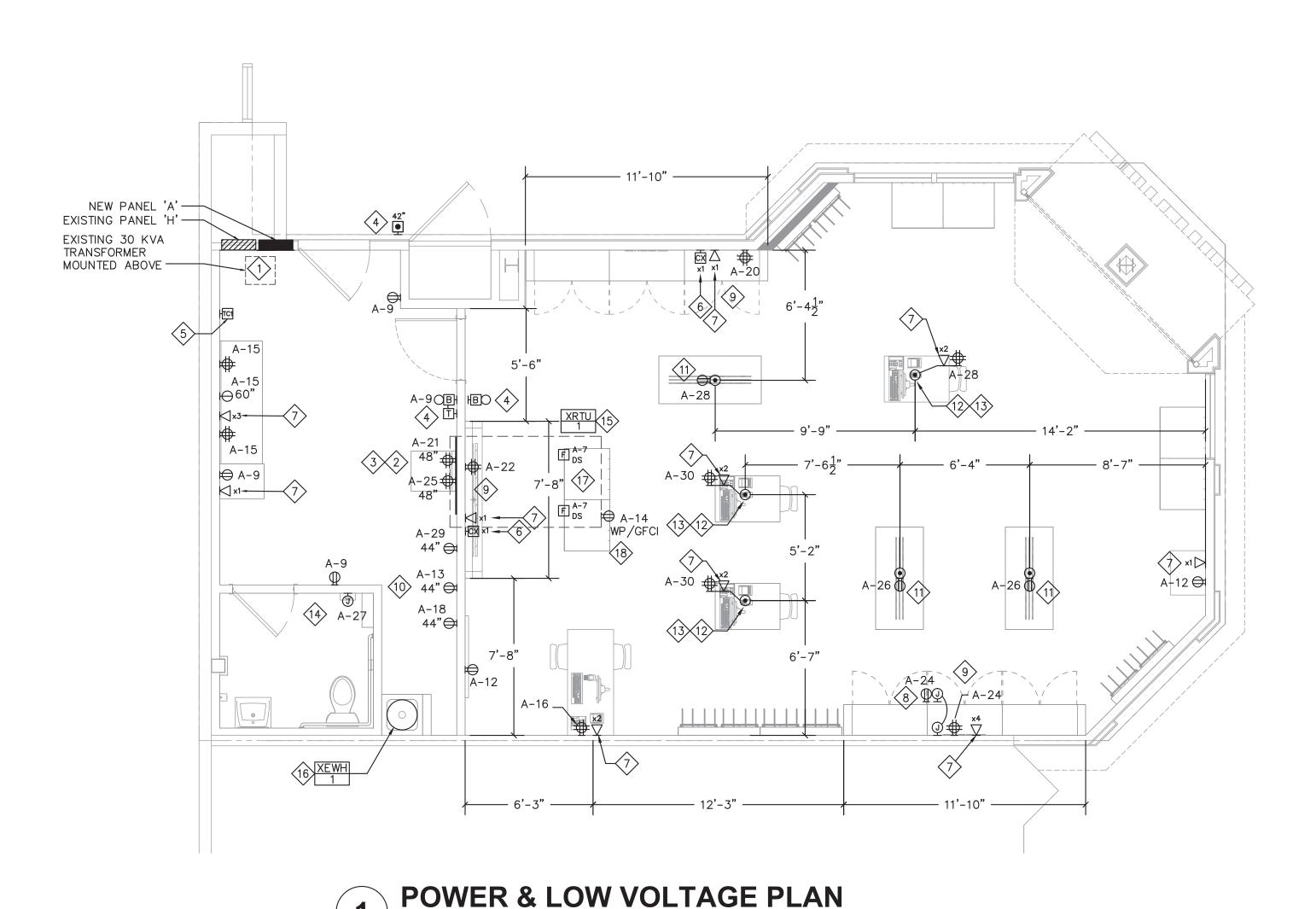
 Permit Issue:
 10/24/2024

 Construction Issue:

LIGHTING PLAN

| Comm. Number | R24-4856.028 |
|--------------|--------------|
| Date | 10/24/2024 |
| Drawn By | LV |
| Checked By | DJQ/PJF |

E1.0



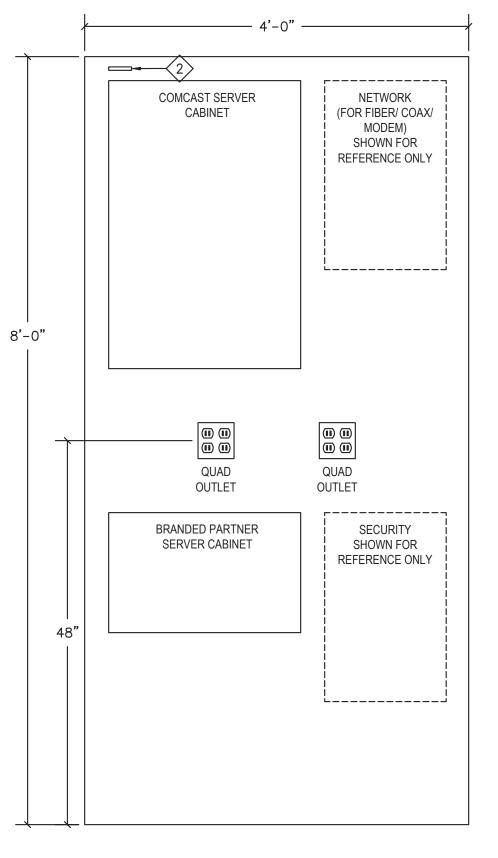
POWER AND LOW VOLTAGE PLAN GENERAL NOTES

- A. ALL JUNCTION BOXES AND DISCONNECT SWITCHES LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE MADE ACCESSIBLE THROUGH THE INSTALLATION OF ACCESS PANELS. COORDINATE EXACT REQUIREMENTS WITH G.C. ON SITE. E.C. SHALL ROUTE CONDUIT IN ORDER TO MINIMIZE THE NEED FOR EXTRANEOUS JUNCTION
- B. CONTRACTOR SHALL SCHEDULE ANY POWER SHUTDOWNS WITH THE LANDLORD AT LEAST ONE MONTH PRIOR.
- PENETRATIONS OF FIRE RATED WALLS SHALL BE SEALED TO PRESERVE THE INTEGRITY OF THE FIRE RATING FOR WHICH THE WALL IS DESIGNED. MATERIALS AND METHODS USED FOR FIRESTOPPING SHALL COMPLY WITH APPLICABLE BUILDING AND FIRE CODES.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND QUANTITIES FOR ELECTRICAL DEVICES. CONTRACTOR SHALL COORDINATE OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ANY INSTALLATIONS.
- ELECTRICAL WORK IN THE SALES AND PUBLIC AREAS SHALL BE CONCEALED. NO EXPOSED CONDUIT OR JUNCTION BOXES. COORDINATE WITH ARCHITECTURAL DETAILS FOR ROUTING OF CONDUITS AND BOX LOCATIONS.
- AC, BX, AND ROMEX TYPE WIRING IS NOT ALLOWED. MC CABLE ALLOWED IN CONCEALED AREAS.
- RECESSED AND HIDDEN CONDUIT WILL BE AT ALL TENANT CONSTRUCTED DROPPED CEILINGS/SOFFITS AND BACK DOOR/OFFICE AREA.
- H. RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, DUCT WORK, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRMLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS. PROVIDE TWO (2) HOLE MOUNTING STRAPS, MINIMUM THREE (3) FEET ON CENTER, FOR ALL SURFACE CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR. PLACE CONDUITS AT LEAST 8" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC HOT WATER LINES. REFER TO SHEET EO.O, ELECTRICAL SYMBOL LEGEND FOR BRANCH CIRCUITING AND FIXTURE LABELING CHARACTERISTICS.
- ALL 120 VOLT BRANCH CIRCUITS IN EXCESS OF 75' SHALL HAVE CONDUCTOR SIZE INCREASED A MINIMUM OF 1 CONDUCTOR SIZE. INSTALLING CONTRACTOR SHALL DETERMINE ACTUAL CONDUCTOR SIZE TO BE INSTALLED TO ADHERE TO VOLTAGE DROP REQUIREMENT.
- K. VERIFY WITH THE AHJ IF A LOW VOLTAGE PERMIT IS REQUIRED. COORDINATE CEILING MOUNTED DEVICES WITH LIGHTING AND OTHER CEILING MOUNTED DEVICES.
- M. CONTRACTOR SHALL SCHEDULE ANY FIRE ALARM SHUTDOWNS WITH MANAGEMENT AT LEAST ONE MONTH PRIOR.
- N. OPENINGS AROUND ALL PENETRATIONS THROUGH CEILINGS, FLOOR SLABS AND FIRE RATED WALLS, SHALL BE SEALED WITH APPROVED FIRE STOPPING MATERIAL.
- O. FIRE ALARM SYSTEM TO BE COMPATIBLE AND ADDRESSABLE WITH BASE BUILDING
- P. FIRE ALARM SYSTEM DESIGN AND EQUIPMENT ARE BY THE FIRE ALARM
- Q. INSTALL CONDUIT WITH NO MORE THAN (2) 90° BENDS BETWEEN PULL BOXES, AND NO MORE THAN 100'-0" BETWEEN PULL BOXES. PULL BOXES SHALL BE INSTALLED FOR STRAIGHT THRU PULLS ONLY.
- R. OTHER THAN FLAT UNDER CARPET CABLES, ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
- COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF POWER AND DATA DEVICES WITH MILLWORK MANUFACTURER.
- COORDINATE EXACT SECURITY DEVICE PLACEMENT & TERMINATION OF EMT WITH SECURITY SYSTEM PROVIDER/INSTALLER.
- U. FIELD COORDINATE WHERE EACH L.V. CABLE IS TO TERMINATE.
- V. REFER TO SHEET E2.1 FOR ELEVATIONS OF THE WALL FIXTURES.

POWER AND LOW VOLTAGE PLAN KEYED NOTES <#>

- LOCATION OF TENANT ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL PANELS SCHEDULE AND POWER RISER DIAGRAM ON SHEET EO.O FOR ADDITIONAL INFORMATION.
- PROVIDE "TTB", 4'-0" WIDE BY 8'-0" HIGH X 3/4" THICK FIRE-TREATED PLYWOOD BACKBOARD FOR TELEPHONE EQUIPMENT. PROVIDE COPPER BAR MOUNTED HIGH ON PHONEBOARD WITH SUFFICIENT SPACE FOR TERMINATIONS. SQUARE D GROUND BAR KIT #PK7GTA OR APPROVED EQUAL.
- . LOCATION OF COMCAST SERVER EQUIPMENT, BRANDED PARTNER SERVER EQUIPMENT & SHARED SPACE. REFER TO DETAIL 2 THIS SHEET. COORDINATE EXACT POWER AND DATA REQUIREMENTS PRIOR TO BID.
- PROVIDE DOOR BELL SYSTEM WITH (1) TRANSFORMER (SIZED FOR TWO BELLS), (1) SURFACE MOUNTED W.P. PUSHBUTTON AT REAR DOOR, (1) BELL LOCATED IN BACK OF HOUSE AND (1) BELL LOCATED IN THE SALES AREA. LOCATIONS SHOWN FOR REFERENCE ONLY AND NEED TO BE COORDINATED PRIOR TO
- ROUGH-IN. 5. LOCATION OF TIME CLOCK. REFER TO SHEET E1.0 FOR FURTHER INFORMATION.
- 6. PROVIDE RG6 COAXIAL CABLE TO COMCAST SERVER RACK. QUANTITY AS NOTED.
- 7. PROVIDE LOW VOLTAGE CAT6 CABLE FROM DEVICE TO COMCAST SERVER RACK.
- 8. PROVIDE (2) J-BOXES CONNECTED BY 1" CONDUIT WITH PULL STRING. PROVIDE DECOR COVER PLATE WITH BRUSH PLATE DECOR INSERT FOR EACH J-BOX. SEE FIXTURE ELEVATION DETAILS ON SHEET E2.1 FOR ADDITIONAL INFORMATION.
- . COORDINATE EXACT POWER AND DATA LOCATIONS WITH FIXTURE ELEVATION DETAILS ON SHEET E2.1 AND MILLWORK MANUFACTURER.
- 10. LOCATION OF RECEPTACLES FOR BREAK COUNTER. COORDINATE MOUNTING HEIGHTS WITH BREAK COUNTER MILLWORK INSTALLER AND EXACT LOCATION WITH ARCHITECTURAL PLANS.
- TRENCH FLOOR TO LOCATION SHOWN FOR ROUTING OF CONDUITS TO FLOOR FIXTURE. PROVIDE (1) 1" CONDUIT FOR POWER (P) CABLE, AND (1) 1" CONDUIT WITH PULL STRING FOR FUTURE LOW VOLTAGE (LV) CABLING. SEE CABLE TYPE KEY FOR LV CABLE REQUIREMENTS. E.C. TO FURNISH AND INSTALL A RECESSED, FLUSH LEGRAND RATCHET-PRO SERIES, RPNFB ROUND PVC FLOOR BOX, AND #RP4CTCAL MULTIPLE SERVICE FLOOR BOX COVER KIT. PROVIDE 2#12 & 1#12 GROUND FROM ELECTRICAL PANEL TO RECESSED FLOOR BOX. CIRCUIT AS INDICATED. PROVIDE CONDUIT STUBBED 6" ABOVE CEILING, DOWN WALL AND OVER TO FLOOR FIXTURE. FIXTURE PLUGS INTO FLOOR BOX DUPLEX RECEPTACLE. NO CONNECTIONS MADE WITHIN FIXTURE. COORDINATE EXACT REQUIREMENTS WITH FIXTURE VENDOR.
- 2. PROVIDE CAT6 LOW VOLTAGE CABLES TO EACH LOCATION AS INDICATED. QUANTITY OF LV CABLES IS NOTED AT EACH FIXTURE. ROUTE LOW VOLTAGE CABLE FROM DEVICE TO COMCAST SERVER RACK. SEE CABLE SCHEDULE THIS SHEET FOR CABLE TYPE. COORDINATE EXACT REQUIREMENTS WITH FIXTURE VENDOR FOR COAX LOW VOLTAGE AND POWER REQUIREMENTS AT FLOOR FIXTURE.
- 13. TRENCH FLOOR TO LOCATION SHOWN FOR ROUTING OF CONDUITS TO FLOOR FIXTURE. PROVIDE (1) 1" CONDUIT FOR POWER (P) CABLE, AND (1) 1" CONDUIT FOR LOW VOLTAGE (LV) CABLING IN TRENCH AND STUB UP AT LOCATION SHOWN. SEE CABLE TYPE KEY FOR LV CABLE REQUIREMENTS. E.C. TO FURNISH AND INSTALL A RECESSED, FLUSH LEGRAND RATCHET-PRO SERIES, RPNFB ROUND PVC FLOOR BOX, AND #RP4CTCAL MULTIPLE SERVICE FLOOR BOX COVER KIT. PROVIDE 2#12 & 1#12 GROUND FROM ELECTRICAL PANEL. CIRCUIT AS INDICATED. PROVIDE CONDUIT STUBBED 6" ABOVE CEILING, DOWN WALL AND OVER TO FLOOR FIXTURE. COORDINATE EXACT REQUIREMENTS WITH FIXTURE VENDOR.
- 14. ELECTRICAL CONTRACTOR TO PROVIDE 3/4"C.-2#12 FOR DIRECT CONNECTION TO 120V. 915 WATT HAND DRYER. PROVIDE AND INSTALL THIN AIR MODEL #TA-ABS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO
- 15. EXISTING MECHANICAL EQUIPMENT TO REMAIN. MAINTAIN EXISTING CIRCUITRY.
- 16. EXISTING WATER HEATER TO REMAIN. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET EO.O FOR FURTHER INFORMATION.
- 17. IF NOT EXISTING, MECHANICAL CONTRACTOR TO FURNISH AND INSTALL DUCT SMOKE DETECTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERFACE CONNECTION TO BUILDING FIRE ALARM SYSTEM AS REQUIRED. COORDINATE WITH LANDLORD'S FIRE ALARM CONTRACTOR. PROVIDE 120V CIRCUIT TO DUCT SMOKE
- 18. IF NOT EXISTING, PROVIDE WEATHER PROOF, GFCI DUPLEX RECEPTACLE ADJACENT TO HVAC UNIT FOR MAINTENANCE.

| | | | | | CA | BLE TYPE | KEY | | | |
|---------------|--------------|-------|---|-----|------------------------|---|-------------------------------|--------------------------|--|--------------------------|
| CABLE CODE | MANUFACTURER | PART# | DESCRIPTION | AWG | INSULATION MATERIAL | OUTER SHIELD | OUTER JACKET DIAMETER (IN) | STANDARD JACKET COLOR | USED FOR | UL FLAME TEST |
| CAT6 | BELDEN | 2413 | MULTI-CONDUCTOR-ENHANCED CATEGORY 6 NONBONDED-PAIR CABLES | 23 | FRPO/FEP | UNSHIELDED | 0.22400 | GRAY | PREMISE HORIZONTAL CABLE, GIGABIT ETHERNET, POE, POE+, 100BASETX, 100BASEVG ANYLAN, 155 ATM, 622 ATM, 250MHZ CATEGORY 6 | NFPA 262 PLENUM FLAME |
| RG6 | BELDEN | 7916 | COAX SERIES 6 | 18 | FPE | BONDED ALUMINUM FOIL-POLYESTER TAPE-ALUMINUM FOIL | 7.569 (MM) | BLACK-WHITE | HDTV, DBS, BROADBAND CATV, CABLE MODEM | UL1685 |



TELEPHONE BOARD



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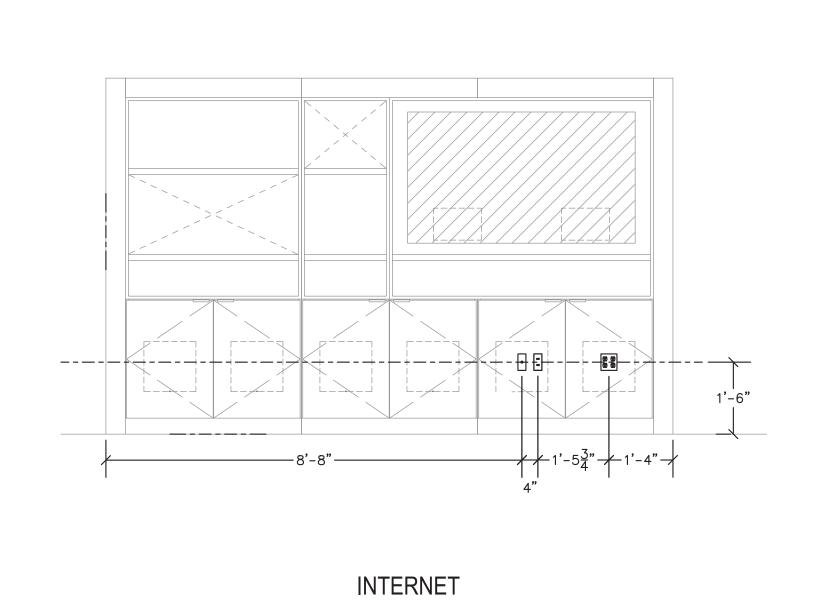


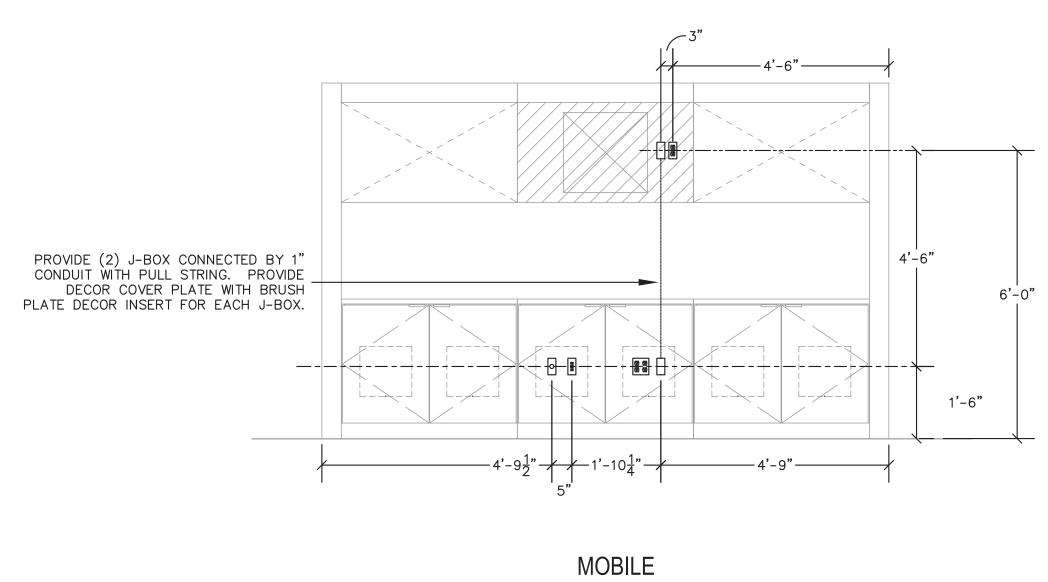
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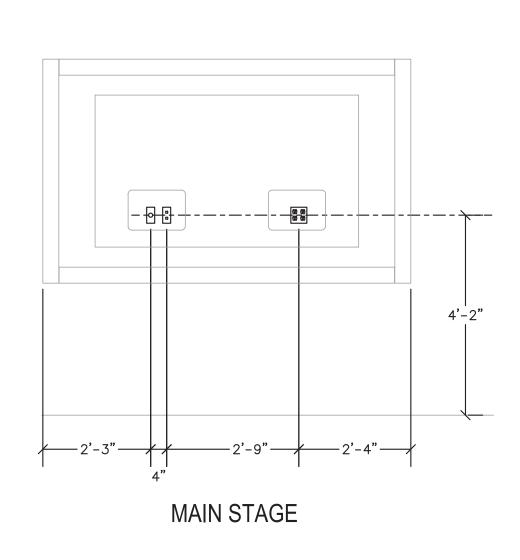
10/24/2024 Preliminary Issue: Bid Issue: 10/24/2024 Landlord Issue: 10/24/2024 10/24/2024 Permit Issue: Construction Issue:

POWER AND LOW **VOLTAGE PLAN**

Comm. Number R24-4856.028 10/24/2024 Drawn By DJQ/PJF Checked By

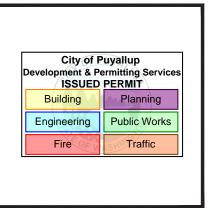


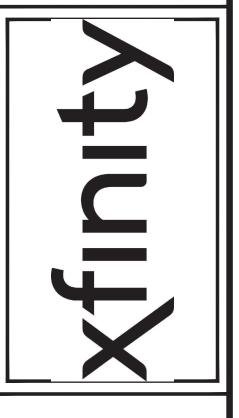




1 FIXTURE ELEVATION DETAILS
1/2" = 1'-0"







BRANDED PARTNER
SOUTH HILL MALL
3500 S. MERIDIAN AVE.
SPACE #503
PUYALLUP, WA 98373

| | PRC 1120241698 | _ ፓ |
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Preliminary Issue: 10/24/2024
Bid Issue: 10/24/2024
Landlord Issue: 10/24/2024
Permit Issue: 10/24/2024
Construction Issue: -

FIXTURE ELEVATION DETAILS

Comm. Number R24-4856.028

Date 10/24/2024

Drawn By LV

E2.1

TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS I. THE TERMS DEFINED BELOW APPLY TO ALL WORK INCLUDED IN DIVISION 16. 1. THE WORK - AS DEFINED IN THE 1997 AIA DOCUMENT A201: "THE TERM 'WORK' MEANS THE CONSTRUCTION AND SERVICES REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR, MATERIALS, EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO FULFILL THE CONTRACTOR'S OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT." FURNISH - TO OBTAIN IN NEW CONDITION READY FOR INSTALLATION INTO THE WORK.

INSTALL - TO STORE, SET IN PLACE, CONNECT AND PLACE INTO OPERATION INTO THE WORK. PROVIDE - TO FURNISH AND INSTALL. CONNECT - TO BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENT INCLUDING NECESSARY SWITCHES, OUTLETS, BOXES, TERMINATIONS, ETC. 6. CONDUIT - INCLUDES IN ADDITION TO CONDUIT, ALL FITTINGS, PULL BOXES, HANGERS AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH CONDUIT. CONCEALED - HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAWL SPACES OR BURIED.

J. THE DRAWING AND SPECIFICATIONS CONSTITUTE THE CONTRACT DOCUMENTS. ANY ITEM NOTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS IS INCLUDED IN THE CONTRACT DOCUMENTS. K. ALL ELECTRICAL DETAILS AND DRAWINGS ARE DIAGRAMMATIC, UNLESS SPECIFICALLY NOTED. FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES, IN WRITING, PRIOR TO INSTALLATION. L. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS REQUIRED WITH THIS WORK IN

8. EXPOSED: NOT INSTALLED UNDERGROUND NOR CONCEALED AS DEFINED ABOVE.

ACCORDANCE WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER GOVERNING AGENCIES. M. DO NOT REMOVE OR DISTURB ANY ASBESTOS CONTAINING MATERIALS FROM THE PROJECT. IMMEDIATELY STOP WORK AND NOTIFY THE TENANT IF ASBESTOS CONTAINING MATERIALS ARE

N. BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND THE AMOUNT OF WORK INVOLVED NOR BIDDERS LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHICH COULD HAVE BEEN DISCOVERED OR REASONABLY ANTICIPATED PRIOR TO BIDDING. CONDUITS, PIPES, DUCTS, LIGHTS, DEVICES, SPEAKERS, ETC., SHOWN ON THE DRAWINGS AS EXISTING HAVE BEEN BASED ON EXISTING PLANS AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT

DETERMINATION OF THE EXISTENCE, LOCATION AND CONDITION OF SUCH FACILITIES PRIOR TO

SUBMITTING A BID. CONSULT THE DRAWINGS AND SPECIFICATIONS OF MECHANICAL AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH OTHER TRADES. VERIFY DIMENSIONS AND CONDITIONS (I.E., FINISHED CEILING HEIGHTS, FOOTING AND FOUNDATION ELEVATIONS, BEAM DEPTHS, ETC.) WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT CANNOT BE RESOLVED, IN THE FIELD, BY AFFECTED TRADES. REPLACEMENT OF WORK DUE TO LACK OF COORDINATION AND FAILURE TO VERIFY EXISTING CONDITIONS WILL BE COMPLETED AT NO COST TO THE TENANT. Q. INSTALL ALL CONDUIT, CABLE TRAY, BUSDUCT, EQUIPMENT, ETC. ALLOWING PROPER CODE AND

MAINTENANCE CLEARANCES AND TO AVOID BLOCKING PASSAGEWAYS AND ACCESS PANELS. WHERE WORK MUST BE REPLACED DUE TO THE FAILURE OF THE CONTRACTOR TO VERIFY THE CONDITIONS EXISTING ON THE JOB, SUCH REPLACEMENT MUST BE ACCOMPLISHED AT NO COST TO THE TENANT. THIS APPLIES TO SHOP FABRICATED WORK AS WELL AS TO WORK FABRICATED IN

THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE INSTALLATION MAY BE REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE TENANT, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO THE PROPER INSTALLATION AND OPERATION WITHIN THE INTENT OF THE CONTRACT DOCUMENTS. THIS DOES NOT INCLUDE WORK ALREADY COMPLETED. T. OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE

PERSON FURNISHING THE EQUIPMENT U. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE IS AS BINDING AS IF CALLED FOR IN BOTH.

V. INCLUDE THE BETTER QUALITY, GREATER QUANTITY OR HIGHER COST FOR AN ITEM OR ARRANGEMENT WHERE A DISAGREEMENT EXISTS IN THE DRAWINGS AND SPECIFICATIONS. W. GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY ISSUANCE OF THE FINAL CERTIFICATE BY THE ARCHITECT. X. DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE TENANT AND ARCHITECT AND ENGINEER. INCLUDE

DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS. Y. REPLACE ALL RECEPTACLES, SWITCHES, COVERPLATES, ETC., DAMAGED BY ANY CONTRACTOR DURING THE COURSE OF CONSTRUCTION. Z. MATERIALS FURNISHED FOR THE TEMPORARY LIGHT AND POWER SYSTEM REMAIN CONTRACTORS PROPERTY. REMOVE WHEN THERE IS NO LONGER ANY NEED FOR TEMPORARY LIGHT AND POWER

OR WHEN DIRECTED BY THE ARCHITECT. AA. COORDINATE/SCHEDULE ALL WORK WITH THE TENANT TO MINIMIZE ANY DISRUPTIONS. CONFINE ALL INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY CONNECTIONS IF

REQUIRED TO PROVIDE CONTINUITY OF SERVICE BB. INSPECT ALL AREAS AFFECTED BY THE INTERRUPTIONS AND RETURN ALL AUTOMATICALLY CONTROLLED EQUIPMENT, ELECTRICALLY OPERATED EQUIPMENT TO THE SAME OPERATING

CONDITION PRIOR TO THE INTERRUPTION. CC. NO FIRE ALARM SYSTEMS ARE TO REMAIN INACTIVE AT THE END OF THE WORK DAY. ASSURE THAT THE FIRE ALARM SYSTEM IS OPERATIONAL AT THE END OF EACH WORK DAY. COORDINATE WITH THE LANDLORD DD. DO NOT DISTURB NORMAL USE OF THE FACILITY, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION

AREA. KEEP WALKS, DRIVEWAYS, ENTRANCES, ETC. FREE AND CLEAR OF EQUIPMENT, MATERIAL EE. STORE ALL EQUIPMENT AND MATERIAL IN A PLACE AND MANNER THAT MINIMIZES CONGESTION AND

IS APPROVED BY THE TENANT. FF. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER. GG. PROVIDE THE HIGHEST QUALITY WORKMANSHIP AND PERFORM ALL WORK ONLY BY SKILLED

MECHANICS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, INSTRUCTIONS AND CURRENT NECA STANDARDS HH. THE TENANT RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS, BEFORE OR AFTER INSTALLATION.

II. PERFORM ALL CUTTING AND PATCHING NECESSARY TO WORK, UNLESS SPECIFICALLY DELEGATED TO THE GENERAL CONTRACTOR. OBTAIN SPECIAL PERMISSION FROM THE LANDLORD BEFORE CUTTING STRUCTURAL MEMBERS OR FINISHED MATERIAL. PERFORM ALL PATCHING IN SUCH A MANNER AS TO LEAVE NO VISIBLE TRACE AND RETURN THE AREA AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PERFORM ALL PATCHING BY WORKERS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED. INFERIOR WORK WILL NOT BE ACCEPTED.

JJ. PATCH ALL HOLES LEFT AS A RESULT OF DEMOLITION OF ELECTRICAL EQUIPMENT AND DEVICES. KK. PREVENT THE SPREAD OF DUST, DEBRIS, AND OTHER MATERIAL INTO ADJACENT LL. REPLACE ALL CEILING TILES DAMAGED DURING INSTALLATION OF WORK, WITH NEW TILE. MM. PROVIDE MINIMUM 4" HIGH CONCRETE PADS FOR ALL FLOOR MOUNTED EQUIPMENT NN. SIZE PAD TO PROVIDE A MINIMUM 2" OVERLAP AROUND PERIMETER OF EQUIPMENT OO. REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING AND OR INSTALLATION TO ITS ORIGINAL CONDITION. REMOVE ALL RUST: PRIME, AND PAINT PER MANUFACTURER'S

RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL. PP. PAINT ALL NEW RACEWAY SYSTEMS IN EXPOSED FINISHED AREAS QQ. AFTER TESTS HAVE BEEN MADE AND ACCEPTED, CLEAN LIGHT FIXTURES, PANELS AND OTHER EQUIPMENT INSTALLED BY THE CONTRACTOR, LEAVING THE ENTIRE WORK AREA IN A CLEAN AND

COMPLETE WORKING ORDER. RR. OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL INSPECTION AND OWNER INSTRUCTIONS. NOTIFY THE ENGINEER, IN WRITING. THAT ALL SYSTEMS HAVE BEEN TESTED AND ARE FUNCTIONING AND OPERATING

SS. INCLUDE DOCUMENTATION OF INSTRUCTIONS IN THE OPERATION AND MAINTENANCE MANUALS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT OR MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE TENANT. KEEP ALL EQUIPMENT CLEAN MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE TENANT.

EXAMINE THE BUILDING TO DETERMINE ACTUAL CONDITIONS AND EXTENT OF WORK PRIOR TO BIDDING THE PROJECT. REFER ANY UNCLEAR DETAILS OR CONFLICTS TO THE ARCHITECT/ENGINEER

FOR CLARIFICATION PRIOR TO BIDDING THE DRAWINGS. VERIFY THAT FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN OF DRAWINGS. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS. COORDINATE PHASING OF THE DEMOLITION WORK WITH THE CONSTRUCTION SEQUENCE SCHEDULE. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. COORDINATE UTILITY SERVICE OUTAGES WITH LANDLORD. IDENTIFY EXISTING ELECTRICAL EQUIPMENT SUCH AS CONDUITS, BOXES, PULLBOXES, CONDUIT

BODIES, AND CONDUIT RACKS THAT WILL NEED ADDITIONAL SUPPORT DUE TO THE DEMOLITION OF THE EXISTING SUPPORTS. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS, INCLUDING TELEPHONE AND DATA SYSTEMS, IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH

EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM TENANT, ARCHITECT/ENGINEER AT LEAST 24 HOURS BEFORE PARTIALLY OR DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. K. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM LANDLORD, ARCHITECT/ENGINEER AND LOCAL FIRE SERVICE AT LEAST

24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREA ADJACENT TO WORK AREA. EXISTING TELEPHONE/DATA SYSTEM: MAINTAIN EXISTING SYSTEMS IN SERVICE UNTIL NEW SYSTEMS ARE COMPLETE AND READY FOR SERVICE AND ACCEPTED. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM LANDLORD. ARCHITECT/ENGINEER AND TELEPHONE UTILITY COMPANY AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER AND THIS SECTION, AND AS INDICATED ON THE DRAWINGS. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. N. PROVIDE SUPPORTS FOR ALL EXISTING ELECTRICAL EQUIPMENT THAT WAS SUPPORTED PREVIOUSLY

BY DEMOLISHED WALLS, FLOORS, CEILING OR OTHER STRUCTURES. PROVIDE NEW SUPPORTS FROM STRUCTURAL MEMBERS NOT SLATED FOR DEMOLITION, PRIOR TO ANY DEMOLITION. TENANT RESERVES THE RIGHT OF FIRST REFUSAL TO OBTAIN MATERIAL SHOWN TO BE REMOVED UNDER THIS CONTRACT. ITEMS NOT RETAINED BY THE TENANT BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE PREMISES.

P. DEMOLISH AND REMOVE ALL ELECTRICAL SYSTEMS INDICATED FOR DEMOLITION. NO PORTION OF THESE SYSTEMS MAY BE ABANDONED IN PLACE. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY

R. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT IN WALLS, FLOORS, OR COLUMNS BACK TO A POINT WHERE PATCHING CAN BE ADEQUATELY PERFORMED AND PATCH SURFACES. S. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR

ABANDONED OUTLETS, WHICH ARE NOT REMOVED. T. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT. U. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. V. DISCONNECT AND REMOVE ABANDONED LUMINARIES. REMOVE BRACKETS, STEMS, HANGERS, AND

OTHER ACCESSORIES. LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISUNDERSTANDING AS TO W. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION X. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS, WHICH REMAIN ACTIVE. MODIFY

INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE. Y. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED. RELOCATE AND REROUTE CONDUIT AND WIRING AS REQUIRED FOR CONDUIT CONCEALED IN WALLS OR STRUCTURE BEING ALTERED AS PART OF THE REMODELING. MAINTAIN CONTINUITY TO ALL DEVICES IN AND DOWNSTREAM OF REMODELED WORK. REROUTE EXISTING RACEWAY AND WIRING, WHICH IS EXPOSED DUE TO REMOVAL OF EXISTING

CONSTRUCTION. CONCEAL NEW RACEWAY AND WIRING AND MAINTAIN OPERATION. AA. IF CONDUCTORS ARE REQUIRED TO BE REMOVED FROM EXISTING RACEWAYS, INSTALL WITH NEW CONDUCTORS.

BB. PROVIDE NEW COVERPLATES THROUGHOUT THE REMODELED AREAS. CC. DISPOSE OF FLUORESCENT LAMPS, BALLASTS, AND OTHER HAZARDOUS MATERIALS IN

ACCORDANCE WITH STATE AND FEDERAL REGULATIONS DD. PRIOR TO REINSTALLATION OF USED EQUIPMENT, THOROUGHLY INSPECT EACH ITEM AND REPORT ANY DEFECTS TO THE ENGINEER/ARCHITECT IN WRITING. INSTRUCTIONS FOR CORRECTIVE MEASURES WILL BE GIVEN AT THE TIME AND THE CONTRACT AMOUNT ADJUSTED ACCORDINGLY. IF NO DEFECTS ARE REPORTED, THE MATERIAL WILL BE INCLUDED UNDER THE CONTRACTOR'S ONE-YEAR GUARANTEE AS OUTLINED IN SECTION 16010.

EE. PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT. FF. LUMINARIES: REMOVE EXISTING LUMINARIES FOR CLEANING. USE MILD DETERGENT TO CLEAN ALL EXTERIOR AND INTERIOR SURFACES; RINSE WITH CLEAN WATER AND WIPE DRY. REPLACE LAMPS,

BALLASTS, AND BROKEN ELECTRICAL PARTS. GG. INSTALL RELOCATED MATERIALS AND EQUIPMENT AS INDICATED ON THE DRAWINGS. 16050 - BASIC MATERIALS AND METHODS

A. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL D. CONDUCTORS. B. ENCASE ALL CONDUCTORS IN A CONTINUOUS RACEWAY SYSTEM. PROVIDE PULL AND JUNCTION BOXES AS REQUIRED BY THE NEC. SIZE ALL RACEWAY PER THE NEC WITH OVERSIZE CONDUITS AS INDICATED. PROVIDE MINIMUM 3/4" CONDUIT FOR BRANCH CIRCUIT HOMERUNS, PROVIDE MINIMUM 1/2" CONDUIT, UNLESS, NOTED OTHERWISE.

C. PROVIDE EMT FOR ALL CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE CONCRETE-TIGHT STEEL COMPRESSION OR STEEL SETSCREW TYPE FITTINGS, COUPLINGS AND BUSHINGS. CAST OR INDENTOR TYPE DEVICES ARE NOT ACCEPTABLE. ALL FITTINGS USED IN PLENUM APPLICATIONS SHALL BE RATED FOR SUCH USE.

PROVIDE IMC OR CONCRETE-ENCASED PVC CONDUIT FOR SERVICE ENTRANCE CONDUCTORS. E. PVC CONDUIT MAY BE USED UNDERGROUND OR BELOW CONCRETE SLABS. PROVIDE COATED RIGID STEEL ELBOWS FOR ALL ELBOWS WHERE PVC IS USED. F. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO TRANSFORMERS, MOTORS AND OTHER VIBRATING PIECES OF EQUIPMENT. PROVIDE LIQUID-TIGHT CONDUIT FOR ALL CONNECTIONS IN DAMP OR WET LOCATIONS. PROVIDE GROUND TYPE FITTINGS AND GROUNDING CONDUCTOR INSIDE ALL FLEXIBLE CONDUIT. ADJUST CONDUIT SIZE IF REQUIRED. G. PROVIDE RECESSED OUTLET BOXES AND JUNCTION BOXES IN ALL NEW CONSTRUCTION. CONCEAL

ALL CONDUIT WORK IN NEW CONSTRUCTION, EXCEPT MECHANICAL ROOMS. CONDUIT AND BOXES IN MECHANICAL ROOMS MAY BE RUN EXPOSED H. PROVIDE EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS. RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRMLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS. PROVIDE TWO (2) HOLE MOUNTING STRAPS, MINIMUM THREE (3) FEET ON CENTER, FOR ALL SURFACE CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR. PLACE CONDUITS AT LEAST 8" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC

PROVIDE GALVANIZED CODE GAUGE STEEL JUNCTION AND PULL BOXES WITH SCREW ON COVERS OF TYPE, SHAPE AND SIZE REQUIRED TO SUIT EACH INSTALLATION. PROVIDE GASKETING IN DAMP AND DUSTY LOCATIONS. PROVIDE CAST BOXES IN WEATHERPROOF, VAPOR TIGHT AND EXPLOSION PROOF ENVIRONMENTS. K. PROVIDE 4" BOXES THROUGHOUT. PROVIDE 3 1/2" DEEP BOXES WHERE INSTALLED IN MASONRY, 2 1/2" MINIMUM ELSEWHERE. PROVIDE SINGLE GANG MUD OR TILE RING FOR SINGLE DEVICES. MOUNT OUTLETS BOXES IN EXPOSED MASONRY WALLS WITH THE BOTTOM OF THE BOX ON THE TOP OF THE MORTAR JOINT AND THE VERTICAL LINE OF THE BOX EITHER ON THE MORTAR JOINT

OR ON THE CENTER LINE OF THE MASONRY UNIT. PLUMB AND ACCURATELY ALIGN ALL WALL OUTLETS IN ROWS. MOUNT CEILING BOXES SYMMETRICAL WITH WALLS, BEAMS AND/OR TILES. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE FROM THE CENTER OF THE OUTLET BOX TO THE FINISHED FLOOR DIRECTLY BELOW THE OUTLET. EXTERIOR HEIGHTS ARE FROM INSIDE ADJACENT DOOR, OR IF NO DOOR, FROM THE FIRST FLOOR ABOVE GRADE, UNLESS NOTED OTHERWISE.

M. COORDINATE THE LOCATION OF ALL OUTLETS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS BEFORE INSTALLATION. COORDINATE ALL DOOR SWINGS IN THE FIELD BEFORE LOCATING SWITCHES. N. PROVIDE NEW WIRING DEVICES IN EACH OUTLET INDICATED ON THE DRAWINGS. PROVIDE ALL DEVICES FROM ONE MANUFACTURER. COLOR TO MATCH ADJACENT SURFACE.

| 00A (100 077 WALL CWITCHES | | | | | | | | | | | | |
|----------------------------|---------------------------|-------------------|---------|---------|---------|-----------------|-----------------|--|--|--|--|--|
| | 20A/120-277 WALL SWITCHES | | | | | | | | | | | |
| MFR. | 1-POLE | 1-POLE W/PILOT | 2-POLE | 3-WAY | 4-WAY | KEYED 1 POLE | MOM. CONTACT | | | | | |
| COOPER | 2221 | 2221PL | 2222 | 2223 | 2224 | 2221L | 1995 | | | | | |
| HUBBELL | HBL1221 | HBL1221PL | HBL1222 | HBL1223 | HBL1224 | HBL1221L | HBL1557 | | | | | |
| P&S | PS20AC1 | PS20AC1-RL | PS20AC2 | PS20AC3 | PS20AC4 | PS20AC1-L | 1251 | | | | | |
| LEVITON | 1221-2 | 1221-2PL | 1222-2 | 1223-2 | 1224-2 | 1221-2L | 1257 | | | | | |
| | | | | /: | | _ | | | | | | |

P. APPROVED STANDARD RECEPTACLE MANUFACTURERS/MODEL NUMBERS:

O. APPROVED TOGGLE SWITCH MANUFACTURERS/MODEL NUMBERS:

| | 20A/125V STANDARD RECEPTACLES | | | | | | | | | | |
|--------------|-------------------------------|-------------------|-----------|---------|-----------|---------------------|--|--|--|--|--|
| MFR. SIMPLEX | | DUPLEX | GFI | IG | TVSS | TAMPER RESISTANT | | | | | |
| COOPER | 5361 | 5362 | XGF20 | IG536-2 | 5362S | TR8300 | | | | | |
| HUBBELL | HBL536-1 | HBL536-2 | GFR5352-A | IG536-2 | HBL5360SA | HBL8300SG A | | | | | |
| P&S | 5361 | 5362A OR PT5362-A | 2094 | IG630-0 | 8300SP | TR63H | | | | | |
| LEVITON | 5361 | 5362 | 8899 | 5362-IG | 7380 | 8300-SG | | | | | |

*PROVIDE THE CORRESPONDING HOSPITAL GRADE DEVICE WHEN THIS DEVICE IS USED.

PROVIDE NEW COVERPLATES OVER ALL BOXES WITH THE FOLLOWING SPECIFICATIONS: ALL FINISHED 16500 - LIGHTING AREAS AND UNFINISHED AREAS PROVIDE PLASTIC COVERS, COLOR TO MATCH ADJACENT SURFACE A. OR AS SELECTED BY THE ARCHITECT. PROVIDE APPROPRIATE COVERS OVER SPECIAL PURPOSE RECEPTACLES. PROVIDE NEW WEATHERPROOF COVERPLATES FOR OUTLETS AND SWITCHES AS INDICATED ON THE DRAWINGS AND FOR ALL EXTERIOR DEVICES.

PROVIDE WIRE AND CABLE WITH INSULATION VOLTAGE RATING EQUAL TO OR GREATER THAN THE D. APPLIED SYSTEM VOLTAGE. PROVIDE SOLID OR STRANDED COPPER CONDUCTORS WITH TYPE THWN, E. THHN, OR XHHN INSULATION FOR NO. 12 AWG AND NO. 10 AWG CONDUCTORS. PROVIDE STRANDED COPPER CONDUCTORS WITH TYPE THWN, THHN, OR XHHW INSULATION FOR NO. 8 AWG AND LARGER CONDUCTORS. PROVIDE MINIMUM NO. 12 AWG CONDUCTOR SIZE, UNLESS NOTED OTHERWISE. USE THE MINIMUM CONDUCTOR SIZE WHEN NO SIZE IS INDICATED. ALL CONDUCTORS TO BE COLOR-CODED AS FOLLOWS; 120/208 VOLT SYSTEMS-PHASE A(BLACK), PHASE B(RED), PHASE C(BLUE), NEUTRAL(WHITE). 277/480 VOLT SYSTEMS-PHASE A(BROWN), PHASE B(ORANGE), A. PHASE C(YELLOW), NEUTRAL(WHITE WITH TRACER OR GRAY). GROUNDING SYSTEM(GREEN).

PRIOR TO TURNING THE BUILDING OVER TO THE OWNER TURN ON ALL EQUIPMENT IN THE BUILDING $^{\mathrm{G}_{\mathrm{c}}}$ INCLUDING LIGHTING AND WITH A MULTIMETER, READ THE CURRENT DRAWN ON EACH HOT LEG OF FEEDER SUPPLYING EACH DISTRIBUTION PANEL. IF THE CURRENT IN ANY ONE LEG VARIES MORE THAN 5% (PLUS OR MINUS) FROM THE ARITHMETIC AVERAGE OF THE CURRENT IN ALL THE HOT LEGS, RECONNECT THE BRANCH CIRCUITS TO OBTAIN A BALANCED LOADING. PROVIDE FIRE BARRIERS AROUND CONDUIT, PIPE, TUBING, BUS DUCTS AND CABLES PASSING THROUGH SMOKE AND FIRE RATED FLOORS AND WALLS. PROVIDE CP 25, 303 AND PSS7904 SERIES BY 3M, OR "FLAME-SAFE" SYSTEM BY THOMAS AND BETTS CORP FOR FIRE SEALS.

MAKE CONNECTIONS TO ALL MOTORS AND EQUIPMENT FURNISHED AND SET IN PLACE BY OTHERS. PROVIDE STARTERS, MANUAL CONTROLS AND AUXILIARY EQUIPMENT WHERE INDICATED IN SCHEDULES AND SPECIFIED HEREIN. PROVIDE ALL DISCONNECT SWITCHES AS INDICATED IN SCHEDULES, SPECIFIED HEREIN AND REQUIRED BY CODE.

FREE RUN CABLES TO BE SECURED TIGHT AGAINST STRUCTURE. BUNDLE ALL LOW VOLTAGE CABLES TOGETHER WHENEVER POSSIBLE.

A. PROVIDE FUSES OF THE FOLLOWING TYPES (BUSSMAN USED AS REFERENCE): 1. 600 AMPS AND ABOVE: TIME-DELAY TYPE DESIGNED TO HOLD 500% OF RATED CURRENT FOR A MINIMUM OF 4 SECONDS AND CLEAR 20 TIMES CURRENT IN 0.01 SECONDS OR LESS WITH INTERRUPTING RATINGS OF 200.000 AMPERES RMS SYMMETRICAL AND PEAK LET-THROUGH CURRENT AND ENERGY LET-THROUGH VALUES ESTABLISHED BY U.L. STANDARD FOR CLASS L FUSES. PROVIDE KRP-C FUSES. 2. BELOW 600 AMPS: DUAL-ELEMENT CONSTRUCTION WITH INTERRUPTING RATING OF 200,000

AMPERES RMS SYMMETRICAL AND PEAK LET-THRU CURRENT ESTABLISHED BY U.L. STANDARD FOR CLASS RK-1 FUSES. PROVIDE LPN-RK/LPS-RK. 3. MOTOR CIRCUITS: PROTECT ALL INDIVIDUAL MOTOR CIRCUITS WITH FULL LOAD AMPERE RATING (FLA) OF 480 AMPERES OR LESS WITH DUAL-ELEMENT TIME-DELAY FUSES. PROVIDE LPN-RK/LPS-RK. PROTECT LARGER HORSEPOWER MOTORS WITH TIME-DELAY FUSES. PROVIDE

KRP-C FUSES. PROVIDE U.L. CLASS RK1, DUAL-ELEMENT TIME-DELAY FOR ALL OTHER 4. MOTOR CONTROLLERS: PROTECT NEMA AND IEC STYLE MOTOR CONTROLLERS WITH DUAL-ELEMENT, TIME-DELAY FUSES TO PROVIDE TYPE 2 COORDINATION FOR THE

CONTROLLER. PROVIDE LPS-RK FUSES. 5. PROTECT CIRCUIT BREAKER PANELS WITH U.L. CLASS RK1, CLASS L FUSES. PROVIDE LPN-RK, LPS-RK, OR KRP-C FUSES.

ACCEPTABLE MANUFACTURERS: BUSSMAN, FERRAZ-SHAWMUT OR LITTELFUSE OR PRE-APPROVED EQUAL. PROVIDE PANELBOARD ASSEMBLIES ADHERING TO THE FOLLOWING SPECIFICATIONS: 1. ENCLOSURES CONSTRUCTED OF GALVANIZED SHEET STEEL OF THICKNESS AS REQUIRED BY CODE, WITH ENAMELED STEEL TRIM, DISTRIBUTED BUSING, HINGED STEEL DOORS LATCHES,

PROVIDE FUSE SIZES AS INDICATED ON THE DRAWINGS.

LOCKS AND ADJUSTABLE TRIM CLAMPS. PROVIDE NEMA 3R ENCLOSURES FOR EXTERIOR PROVIDE WELDED METAL FRAME WITH TYPED CIRCUIT DIRECTORY FOR EACH PANEL. COMPLIANT TO THE FOLLOWING STANDARDS: UL 50, UL 67, NEMA PB-1, NFPA 70 AND FED. SPEC W-P-115C, UL 489, NEMA AB-1, FED. SPEC. W-C-375B/GEN, IEC 157-1 AND BS

4. COMPLIANT TO ARTICLE 408 OF THE NEC: SWITCHBOARDS AND PANELBOARDS PROVIDE PANELBOARDS WITH SHORT CIRCUIT CURRENT RATINGS AS SHOWN ON THE PLANS. 6. PROVIDE 240 VOLT AC RATED PANELBOARDS FOR 208/120 AND 240 VOLT AC SYSTEMS.

PROVIDE 480/277 VOLT RATED PANELBOARDS FOR 480/277 VOLT SYSTEMS. PROVIDE TIN-PLATED COPPER BUS BARS OR TIN-PLATED ALUMINUM BUS BARS PROVIDE PROPER LUGS (75° C. MINIMUM TEMPERATURE RATING) AND GUTTER SPACE FOR CABLE SIZE INDICATED ON THE PLANS.

PROVIDE ALL PANELS BY THE SAME MANUFACTURER. 10. PROVIDE SCREW MOUNTED, ENGRAVED NAMPLATES FOR EACH PANELBOARD. 11. PROVIDE MOLDED CASE, NON-ADJUSTABLE, THERMAL-MAGNETIC, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE CIRCUIT BREAKERS. REFER TO THE SCHEDULES ON THE PLANS FOR SIZES AND QUANTITIES.

12. PROVIDE MULTI-POLE BREAKERS WHERE INDICATED ON THE SCHEDULES. HANDLE TIES ON SINGLE POLE BREAKERS ARE NOT ACCEPTABLE 13. SERIES RATING OF CIRCUIT BREAKERS IS NOT ALLOWED.

14. PROVIDE SECONDARY GROUND BUS IN EACH 208/120V PANEL BOARD. 15. ACCEPTABLE MANUFACTURERS: C. 240 VOLT

SQUARE D TYPE NQOD OF NF SIEMENS TYPE S1 SERIES EATON POW-R-LINE 1A SERIES GENERAL ELECTRIC AQ SERIES 5. PRE-APPROVED EQUAL

SQUARED D TYPE NF SIEMENS TYPE S2 SERIES EATON POW-R-LINE 2A SERIES

4. GENERAL ELECTRIC AE SERIES

5.PRE-APPROVED EQUAL PROVIDE PANEL IDENTIFICATION LABEL FOR EACH PANEL INCLUDING PANEL NAME, VOLTAGE AND FEEDER. FOR EXAMPLE: "HDP-1-1, 480/277 V, 3£, 4 WIRE, 2"C - 4 # 4/0 THWN". MOUNT PANELBOARDS AND CABINETS TO BUILDING STRUCTURE OR INTERIOR WALL CONSTRUCTION. MOUNT INDEPENDENT OF CONDUIT AND RACEWAYS ENTERING BOXES.

MOUNT PANELBOARDS WITH CABINET TOP AT 78" ABOVE FINISHED FLOOR. PROVIDE 3/4"EMPTY CONDUITS FROM EACH FLUSH MOUNTED PANELBOARD. WHEN THE FLOOR IS ON GRADE, PROVIDE THREE (3) CONDUITS INTO THE CEILING CAVITY ABOVE. WHEN THE FLOOR HAS ACCESSIBLE SPACE BELOW, PROVIDE TWO (2) CONDUITS INTO THE CEILING SPACE ABOVE AND TWO (2) CONDUITS INTO THE ACCESSIBLE SPACE BELOW THE FLOOR. ENDS SHALL BE CAPPED AND SHALL BE TAGGED AT BOTH ENDS WITH PERMANENT TAGS. PROVIDE A CIRCUIT DIRECTORY COMPLETELY TYPED ON THE INTERIOR OF EACH PANEL DOOR.

EQUIPMENT GROUND - SOLIDLY GROUND ALL CONDUIT SYSTEMS, SWITCH BOXES, CABINETS, MOTOR FRAMES, SWITCHGEAR, TRANSFORMERS, AND ALL OTHER PERMANENTLY INSTALLED EQUIPMENT IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE TO FORM A CONTINUOUS, PERMANENT AND EFFECTIVE GROUNDING SYSTEM. BOND EXPANSION JOINTS AND METAL RACEWAY SECTIONS. PROVIDE GROUND CONDUCTOR AS INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN. WHEN CONNECTING SINGLE PHASE CIRCUITS AND EQUIPMENT TO A THREE (3) PHASE SYSTEM

DISTRIBUTE THE LOADS ON THE PHASES TO ACHIEVE AN APPROXIMATELY BALANCED LOADING OF THE THREE-PHASE SYSTEM.

PROVIDE "ON-OFF" TOGGLE TYPE MANUAL STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION E CONNECT EMERGENCY LIGHTS TO THE UNSWITCHED BRANCH CIRCUIT(S) IN THE AREA PROVIDE FOR SINGLE PHASE MOTORS, WHERE MANUAL CONTROL IS INDICATED. PROVIDE EACH SWITCH

WITH A RED PILOT LIGHT INDICATING WHEN MOTOR IS ON. PROVIDE FULL VOLTAGE TYPE STARTERS AND THERMAL OVERLOAD PROTECTION AND EXTERNAL MANUAL RESET FOR ALL THREE-PHASE MOTORS, UNLESS INDICATED OTHERWISE. EQUIP EACH STARTER WITH 120 VOLT COIL, CONTROL POWER TRANSFORMER, SECONDARY FUSE BLOCK AND FUSES, AUXILIARY CONTACTS AS INDICATED, RED "ON" PILOT LIGHT, AND "HAND-OFF-AUTO" ACCEPTABLE MANUFACTURERS FOR MAGNETIC STARTERS: ALLEN-BRADLEY BULL. 509 & 512, SQUARE D CLASS 8536, EATON, GENERAL ELECTRIC, SIEMENS EQUIVALENT OR PRE-APPROVED

PROVIDE MANUAL MOTOR STARTING SWITCH OR TYPE "SS" FUSED DISCONNECT ADJACENT TO EACH 120 VAC SINGLE PHASE MOTOR LOCATED OUT OF SIGHT AND/OR IN EXCESS OF 50'-0" FROM THE CONTROLLER, OR AS INDICATED ON THE DRAWINGS..

INTER LOCK ROOFTOP HVAC UNIT FAN STARTER WITH DUCT DETECTOR TO SHUT DOWN FAN UPON DETECTOR ACTIVATION.

PROVIDE VENTILATED, INDOOR, DRY-TYPE DISTRIBUTION TRANSFORMER WITH THE CAPACITY AND VOLTAGE CHARACTERISTICS INDICATED ON THE DRAWINGS. TRANSFORMERS 15 KVA AND ABOVE WILL BE DESIGNED TO OPERATE WITH A 115 DEGREES C. TEMPERATURE RISE ABOVE 40 DEGREES C. AMBIENT. PROVIDE ALL INSULATING MATERIALS FOR A 220 DEGREES C. INSULATION SYSTEM. PROVIDE TRANSFORMERS MEETING OR EXCEEDING NEMA CLASS 1 EFFICIENCY REQUIREMENTS AS REQUIRED IN THE LOCAL ENERGY CODE.

PROVIDE VOLTAGE TAPS AS INDICATED BELOW: 1. PROVIDE TWO 5% FCBN TAPS FOR ALL SINGLE AND 3 PHASE TRANSFORMERS 9 KVA AND PROVIDE TWO 2 1/2% FCBN AND TWO 2 1/2% FCAN TAPS FOR ALL 3 PHASE

TRANSFORMERS 15 KVA AND BELOW. PROVIDE FOUR 2 1/2% FCBN AND TWO 2 1/2% FCAN TAPS FOR ALL 3 PHASE TRANSFORMERS ABOVE 15 KVA.

PROVIDE SOUND RATINGS NOT EXCEEDING THE FOLLOWING LEVELS: . 0 TO 15 KVA, 40 DECIBELS.

15 TO 50 KVA. 45 DECIBELS. 50 TO 150 KVA, 50 DECIBELS.

150 KVA OR GREATER, 50 DECIBELS. PROVIDE CONTINUOUS COPPER OR ALUMINUM COIL CONDUCTORS WITH BRAZED OR WELDED TERMINATIONS

ISOLATE TRANSFORMER CORE AND COIL FROM THE ENCLOSURE USING VIBRATION - ABSORBING MOUNTS. PROVIDE TRANSFORMERS 75 KVA OR LESS WITH ENCLOSURES SUITABLE FOR WALL, FLOOR OR TRAPEZE MOUNTING. PROVIDE TRANSFORMER LARGER THAN 75 KVA WITH ENCLOSURES SUITABLE FOR FLOOR OR TRAPEZE MOUNTING.

H. PROVIDE MAXIMUM CASE TEMPERATURES NOT EXCEEDING A 35C TEMPERATURE RISE ABOVE A 40

DEGREE C AMBIENT. I. ACCEPTABLE MANUFACTURERS: EATON, GENERAL ELECTRIC, SIEMENS, SORGEL, HEVI-DUTY JEFFERSON ELECTRIC OR PRE-APPROVED EQUAL.

COMPLY WITH NEC AS APPLICABLE TO THE INSTALLATION AND CONSTRUCTION OF LIGHT FIXTURES. COMPLY WITH IBC AS APPLICABLE TO THE INSTALLATION AND CONSTRUCTION OF LIGHT FIXTURES. PROVIDE LIGHT FIXTURES THAT ARE LISTED AND LABELED BY U.L. OR ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE APPLICATION.

COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENERGY CODES. PROVIDE FIXTURES WITH LAMPS, FOR EACH OUTLET SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. SEE FIXTURES LIST ON THE PLAN. PROVIDE SOLID STATE, SLIDE-TYPE DIMMERS SUITABLE FOR MOUNTING BEHIND A STANDARD DEPTH FACEPLATE AND FOR OPERATION ON COMMON NEUTRAL CIRCUITS. PROVIDE 600 WATTS CAPACITY PER DIMMER UNLESS NOTED OTHERWISE ON THE PLANS.

1. PROVIDE SOLID STATE, PROGRAMMABLE 24 HOUR OR 7-DAY, ELECTRIC TIME SWITCH WITH

ACCEPTABLE MANUFACTURERS: LUTRON NOVA T-STAR SERIES PRE-APPROVED EQUAL

FOUR (4) SPST CONTACT RATED 20A AT 240 VOLTS. PROVIDE LONG LIFE LITHIUM BATTERY BACKUP TO MAINTAIN TIME AND MEMORY SETTING DURING A POWER OUTAGE. PROVIDE ASTRONOMICAL CONTROL.

ACCEPTABLE MANUFACTURERS:

SOLID STATE TYPE TIME SWITCHES

PARAGON EC7000 SERIES TORK MODEL D100 SERIES

PRE-APPROVED EQUAL PROVIDE LIGHTING CONTACTORS THAT ADHERE TO THE FOLLOWING SPECIFICATIONS, WHERE LIGHTING CONTROL RELAYS OR CONTACTORS ARE CALLED OUT ON THE DRAWINGS: 1. ELECTRICALLY HELD RELAY, 30 AMP BALLAST RATED, 20 AMPS TUNGSTEN RATED @ 277

2 POLE MINIMUM (REFER TO PLANS FOR REQUIRED POLES)

INSTALLED IN NEMA 1 ENCLOSURE INDOORS, NEMA 3R ENCLOSURE OUTDOORS. COIL VOLTAGE: 24VAC

COORDINATE ACCESSORIES WITH DIVISION 15'S EMS CONTRACTOR. APPROVED MANUFACTURERS:

SQUARE D CLASS 8903, TYPE 'L' SERIES. ASCO 917 SERIES SIEMENS TYPE CLM

PRE-APPROVED EQUAL PROVIDE PHOTOELECTRIC SWITCH CONTROL WITH A SET OF SPST CONTACTS RATED AT 120 VOLT AC, 1800VA IN A NEMA 3R ENCLOSURE.

UL LISTED. APPROVED MANUFACTURERS: A. PARAGON CW/210 SERIES

TORK 2101 SERIES 3. IF USED AS A SENSOR INPUT TO THE LIGHTING CONTROL SYSTEM, PROVIDE PHOTOCELL CONTROLLERS FULLY-COMPATIBLE WITH THE LIGHTING CONTROL PANELS USED ON THIS

PROJECT. REFER TO SECTION 16915. PROVIDE ALL HANGERS, RODS, MOUNTING BRACKETS, SUPPORTS, FRAMES, ETC. FOR PROPER AND SAFE FIXTURE INSTALLATION. INSTALL ALL FIXTURES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE FIXTURES COMPLETE WITH ALL AUXILIARIES REQUIRED FOR PROPER, SAFE AND DISTORTION FREE INSTALLATION IN THE VARIOUS CEILING CONSTRUCTIONS IN WHICH THEY APPEAR.

COORDINATE CEILING TYPES WITH THE ARCHITECTURAL DRAWINGS AND PROVIDE COMPATIBLE PROVIDE FELT OR FIBERGLASS GASKETS ON ALL INCANDESCENT LIGHTING FIXTURES WHERE NECESSARY TO PREVENT LIGHT LEAKAGE AT THE CEILING LINE. M. SECURELY SUPPORT ALL LIGHT FIXTURES DIRECTLY FROM BUILDING STRUCTURAL MEMBERS OR 11/2" OR LARGER STEEL CEILING FRAMING CHANNELS. USE STEEL CHANNEL EQUIVALENT TO KINDORF #6029 WHERE IT IS NECESSARY TO SPAN THE BUILDING STRUCTURAL MEMBERS FOR FIXTURE SUPPORT. WOOD SUPPORTING MEMBERS OR WIRES WILL NOT BE ACCEPTABLE. PROVIDE MINIMUM 1/4" DIAMETER LAG SCREWS WHEN ANCHORING INTO WOOD STRUCTURAL MEMBERS. PENETRATE WOOD STRUCTURAL MEMBERS A MINIMUM OF 2" WITH ALL SCREWS. PROVIDE STEEL OR LEAD. EXPANDABLE TYPE, ANCHORS WITH MINIMUM PENETRATION OF 11/2" WHEN ANCHORING TO CONCRETE. WHEN INSTALLING LIGHT FIXTURES IN A SEISMIC ZONE, SECURE TO MEET ALL REQUIREMENTS.

DO NOT SUSPEND ANY CONDUIT, LIGHT FIXTURES, OR BALLASTS FROM METAL ROOF DECK OR FROM THE CEILING SUSPENSION WIRES. SUPPORT ALL LAY-IN FIXTURES INDEPENDENT OF THE CEILING SUPPORT SYSTEM. PROVIDE FASTENING CLIPS ON EACH CORNER OF EACH FIXTURE IN ACCORDANCE WITH THE IBC AND STATE BUILDING CODES. EQUIP ALL FIXTURES USING CONDUIT STEMS WITH BALL SWIVEL HANGERS. IN FINISHED AREAS, PROVIDE CANOPIES FOR THE HANGERS. SUPPORT ALL SURFACE MOUNTED FLUORESCENT FIXTURES WITH A MINIMUM OF ONE HANGER PER

FIXTURE PLUS ONE PER ROW. SUPPORT INDIVIDUAL FIXTURES WITH A MINIMUM OF TWO HANGERS. ATTACH FIXTURE HANGERS TO THE CEILING GRID PER CODE. SUPPORT ALL SUSPENDED FLUORESCENT FIXTURES WITH A MINIMUM OF TWO FIXTURE HANGERS. ATTACH EACH HANGAR TO A DEDICATED ANCHOR. LOCATE HANGARS DIRECTLY ABOVE THE CORNERS OF THE LIGHT FIXTURES.

WIRE ALL RECESSED LAY-IN FIXTURES WITH 6 FEET OF FLEXIBLE METAL CONDUIT WITH TYPE "THHN/THWN" WIRE TO THE OUTLET BOX. PROVIDE GROUNDING TYPE CONNECTORS FOR ALL CONDUIT AND CABLE. PROVIDE OUTLET BOXES ADJACENT TO EACH RECESSED FIXTURE OUTLET IN SUSPENDED CEILINGS TO PERMIT EACH FIXTURE TO BE ADJUSTED TO FIT CEILING PATTERN AND TO PERMIT "FEED

THROUGH" WIRING. S. AT THE TIME OF SUBSTANTIAL COMPLETION, ALL FIXTURES MUST BE INSTALLED AND LAMPED WITH NEW LAMPS. INSTALL ALL FIXTURES COMPLETE WITH LENSES, DIFFUSERS, REFLECTORS, LOUVERS

AND OTHER REQUIRED ACCESSORIES. REPLACE ANY DAMAGED REFLECTORS, DIFFUSERS, LOUVERS OR OTHER COMPONENTS AT NO EXPENSE TO THE OWNER. CLEAN ALL FIXTURES FREE OF DUST, FINGER PRINTS, PAINT, ETC.

PERFORM AIMING AND ADJUSTMENT OF ALL LIGHTING FIXTURES IN ACCORDANCE WITH INSTRUCTIONS ISSUED BY THE ENGINEER/TENANT. ADJUST ALL DIRECTIONAL TYPE FIXTURES (INTERIOR AND EXTERIOR) AFTER DARK UNDER THE DIRECTION OF THE ARCHITECT, ENGINEER, AND/OR TENANT W. INSTALL DIMMERS WHERE INDICATED ON THE DRAWINGS.

WHERE DIMMERS ARE SHOWN GANGED WITH OTHER DIMMERS AND/OR OTHER DEVICES, SIZE OUTLET SUCH THAT DIMMERS WILL NOT BE UNDERATED X. INSTALL PHOTOCELL(S) PER MANUFACTURER'S RECOMMENDATIONS.

AIM AWAY FROM ARTIFICIAL LIGHT SOURCES SUCH AS STREET LIGHTS OR SECURITY LIGHTS. SEAL PENETRATIONS THROUGH ROOF OR PENTHOUSE WALL. INSTALL TIME SWITCHES ADJACENT TO THE SOURCE LIGHTING PANEL, UNLESS SPECIFICALLY LOCATED ELSEWHERE ON THE PLANS.

 SET LONGITUDE AND LATITUDE SETTINGS AND THE ASTRONOMICAL TIME. PROVIDE TIME SETTINGS PER THE TENANT'S DIRECTION. PROVIDE "NAMEPLATES" A SPECIFIED IN SECTION 16050 FOR ALL CONTACTORS AND TIME SWITCHES. LABEL CONTACTORS AND TIME SWITCHES TO INDICATE LOAD SERVED (E.G., CANOPY LIGHTS, STORE SIGN, ETC.).

PROVIDE AUTOMATIC BATTERY POWERED LIGHTING UNITS AS INDICATED ON THE DRAWINGS. PROVIDE EMERGENCY LIGHTING AS SHOWN ON THE PLANS TO ILLUMINATE THE EGRESS CORRIDORS AND OTHER REQUIRED AREAS. REFER TO THE LIGHT FIXTURE SCHEDULE ON THE DRAWINGS FOR PROVIDE AN INTENSITY OF NOT LESS THAN 1.0 FOOTCANDLE AT THE FLOOR LEVEL ALONG THE

PATH OF EGRESS.

HANDLE-LOCK DEVICE FOR THAT CIRCUIT. PROVIDE 4" SQUARE BOXES FOR EACH RECESSED OUTLET BOX. PROVIDE 3½" DEEP MASONRY

PROVIDE AN EXIT LIGHT AT EACH EXIT AND ALONG THE EGRESS PATH AS REQUIRED

TYPE IN RECESSED MASONRY INSTALLATIONS. PROVIDE MUD OR TILE RING AS REQUIRED FOR ALL CONTROL SWITCH. PROVIDE COMBINATION STARTER/DISCONNECT WHEN INDICATED ON THE PLANS. B. PROVIDE THE FOLLOWING IN ACCESSIBLE CEILINGS AS FOLLOWS: PROVIDE AN EMPTY BOX WITH (2) 1-1/2" CONDUITS STUBBED INTO CEILING SPACE FOR EACH TELEPHONE OUTLET INDICATED ON THE DRAWINGS; PROVIDE AN EMPTY BOX WITH (2) 1-1/2" CONDUITS STUBBED INTO CEILING SPACE FOR EACH DATA, VOICE/DATA OR FIBER OPTIC OUTLET INDICATED ON THE DRAWINGS; PROVIDE AN EMPTY BOX WITH WITH (2)1" CONDUITS STUBBED INTO CEILING SPACE FOR VOICE/DATA OUTLET AT SEASONAL REGISTER LOCATIONS INDICATED ON THE DRAWINGS. PROVIDE THE FOLLOWING IN INACCESSIBLE CEILINGS (PLASTER, SPLINE, GYPSUM, SECURITY GRID

PLANK, ETC.) AS FOLLOWS: PROVIDE AN EMPTY BOX WITH (2) 1-1/2" CONDUITS ROUTED TO THE NEAREST TELEPHONE BACKBOARD LOCATION FOR EACH TELEPHONE OUTLET, UNLESS NOTED OTHERWISE ON THE PLANS; PROVIDE AN EMPTY BOX WITH (2) 1-1/2" CONDUITS ROUTED TO THE NEAREST COMMUNICATIONS CLOSET BACKBOARD LOCATION FOR EACH DATA, VOICE/DATA, OR FIBER OPTIC OUTLET, UNLESS NOTED OTHERWISE ON THE PLANS; PROVIDE AN EMPTY BOX WITH (2) 1" CONDUITS ROUTED TO THE NEAREST COMMUNICATIONS CLOSET BACKBOARD LOCATION FOR VOICE/DATA OUTLET AT SEASONAL REGISTER LOCATIONS, UNLESS NOTED OTHERWISE ON THE PLANS.

HALLBERG **ENGINEERING** Mechanical/Electrical Consulting Engineers 1750 Commerce Court White Bear Lake, MN 55110 (651) 748-1100 Fax (651) 748-9370 **EXPIRES** 04/30/2026

> City of Puyallup elopment & Permitting Service
> ISSUED PERMIT Building Planning Engineering | Public Works Fire Traffic

10/25/2024



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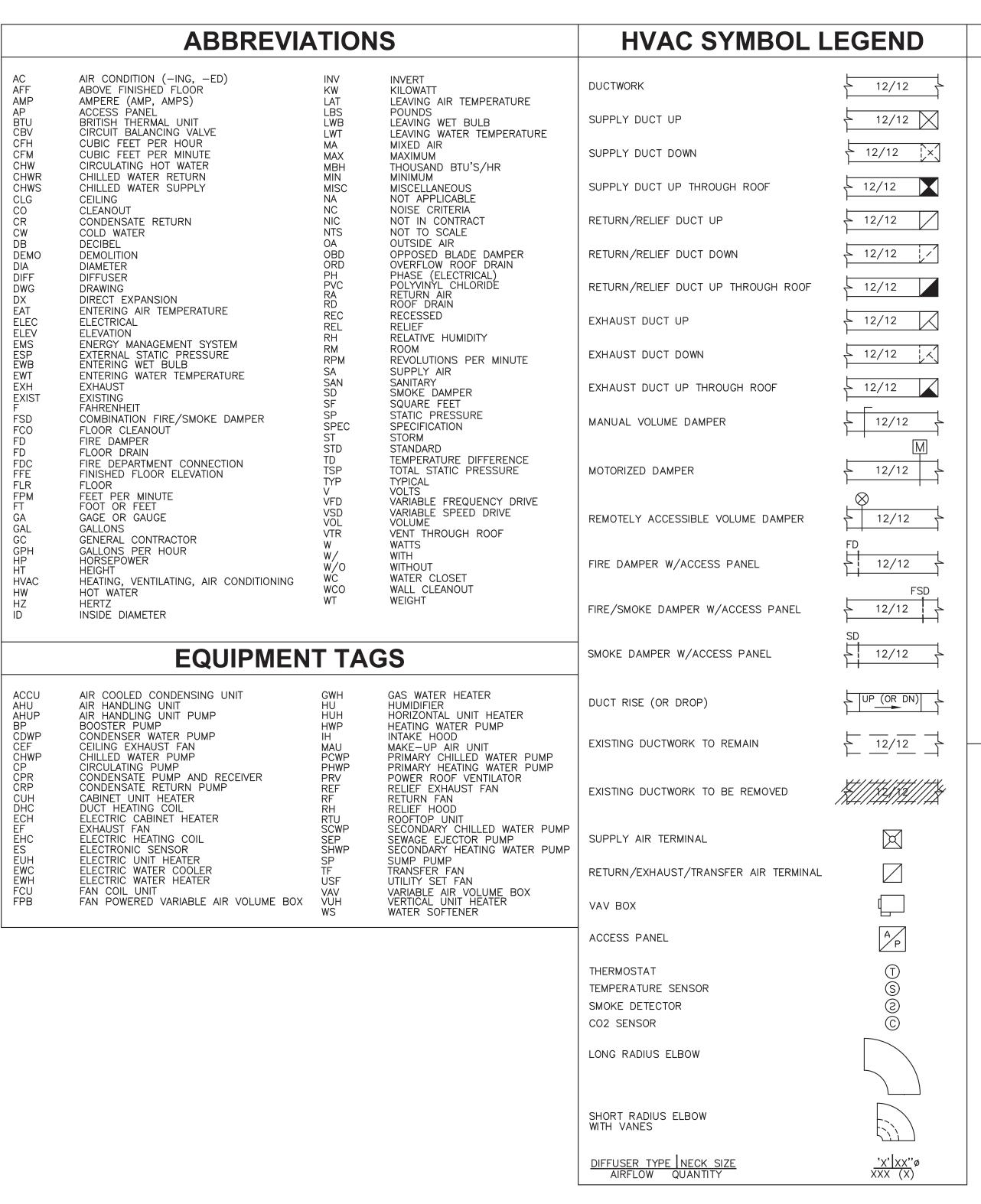
10/24/202 Preliminary Issue: 10/24/202 Bid Issue: 10/24/202 Landlord Issue: 10/24/2024 Permit Issue: Construction Issue:

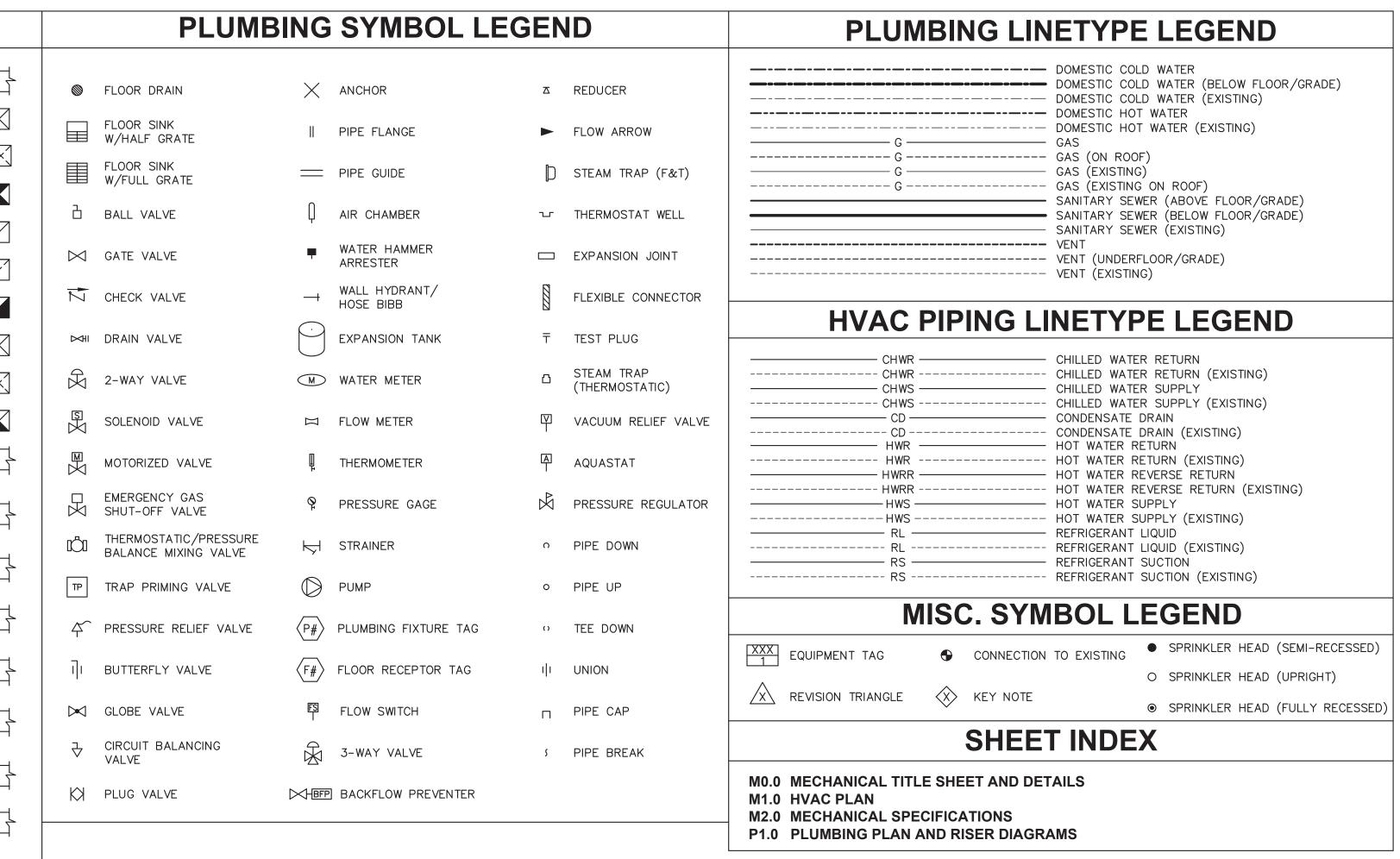
ELECTRICAL SPECIFICATIONS

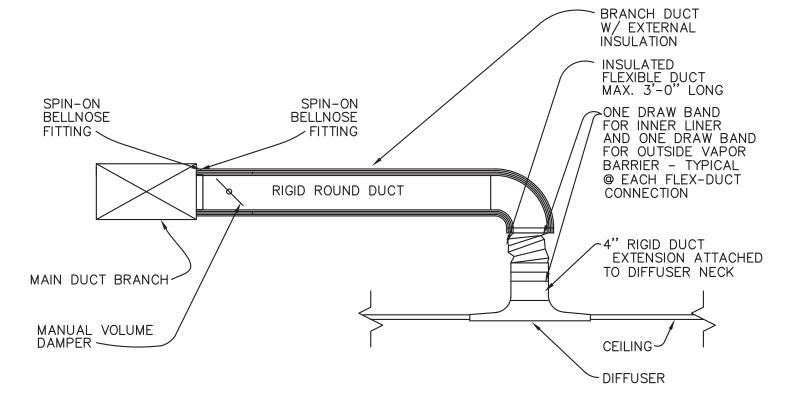
Comm. Number R24-4856.028 10/24/2024 Drawn By

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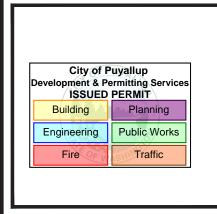






1 TYP. DIFFUSER/DUCT CONNECTIONS
NO SCALE







BRANDED PARTNER
SOUTH HILL MALL
3500 S. MERIDIAN AVE.
SPACE #503
PUYALLUP, WA 98373

No. Description
PRCTI20241698

 Preliminary Issue:
 10/24/2024

 Bid Issue:
 10/24/2024

 Landlord Issue:
 10/24/2024

 Permit Issue:
 10/24/2024

 Construction Issue:
 10/24/2024

MECHANICAL TITLE SHEET AND DETAILS

Comm. Number R24-4856.028

Date 10/24/2024

Drawn By

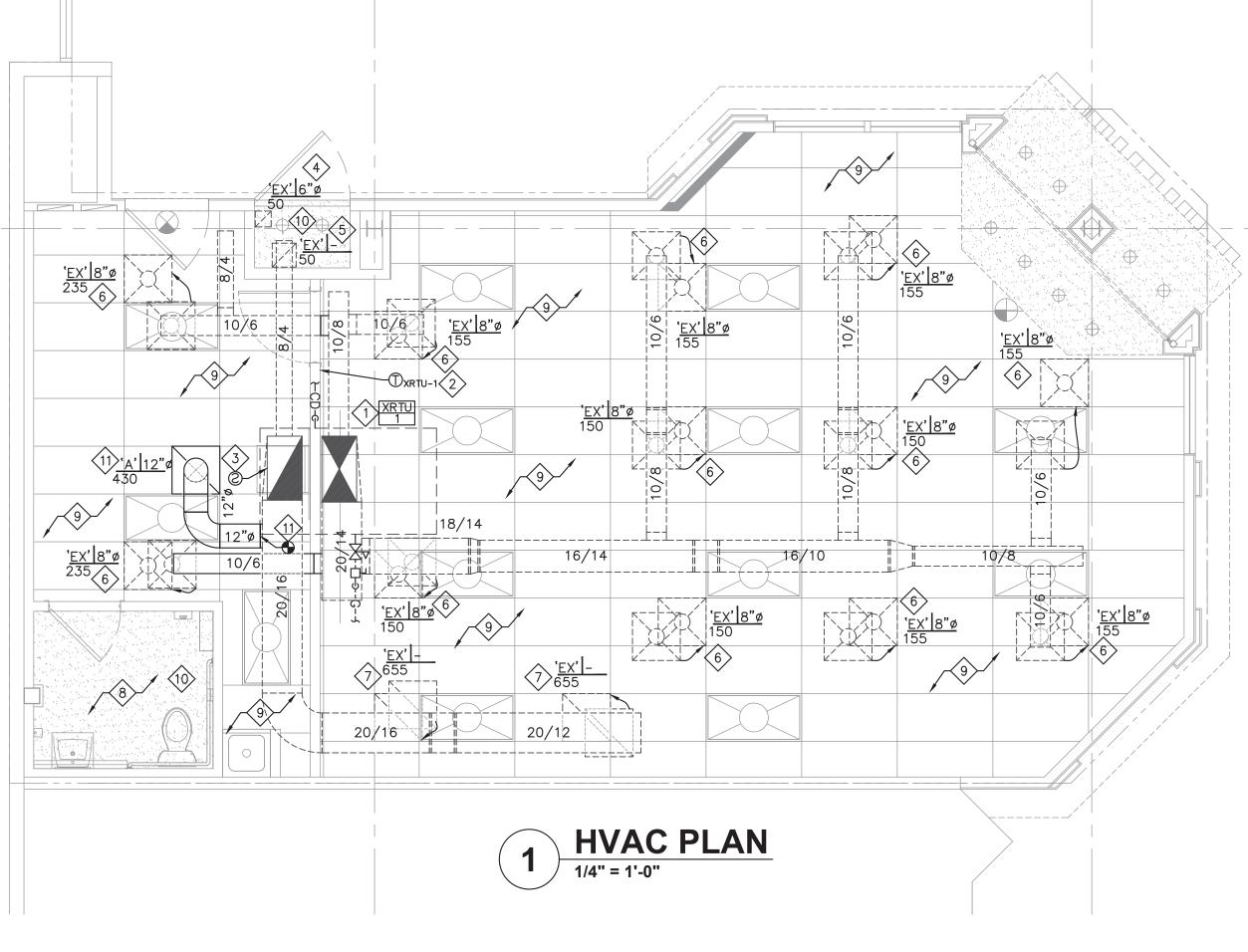
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GENERAL MECHANICAL NOTES

- A. ALL REFERENCES ON THE DRAWINGS AND IN THE SPECIFICATIONS TO "CONTRACTOR" AND "MECHANICAL CONTRACTOR" REFER TO THE TENANT'S MECHANICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
- B. ALL WORK SHOWN AND SPECIFIED HEREIN SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, UNLESS SPECIFICALLY NOTED
- C. THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID, INCLUDING ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, STUB-INS, TAPS, ETC. NO CLAIMS FOR EXTRAS DUE TO LACK OF FAMILIARITY WITH SITE CONDITIONS WILL BE APPROVED.
- D. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS FOR ALL DIVISIONS OF WORK AND SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL HIS SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
- E. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL FIT THE WORK TO THE JOB, CAREFULLY INVESTIGATING STRUCTURAL, MECHANICAL, ELECTRICAL AND FINISH CONDITIONS AFFECTING THE WORK, AND SHALL FURNISH AND INSTALL ALL NECESSARY BENDS, OFFSETS, FITTINGS, JUNCTIONS, ETC. WHETHER OR NOT SPECIFICALLY SHOWN OR CALLED FOR, AND SEE THAT THERE ARE NO INTERFERENCES BETWEEN THIS WORK AND THE WORK OF OTHER TRADES.
- F. PROVIDE ALL EQUIPMENT AND MATERIALS, AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY APPLICABLE CODES.
- G. INSTALL ALL MECHANICAL EQUIPMENT, MATERIALS AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, THE CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- H. ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LANDLORD CRITERIA.
- I. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS THAT ARE NOT DIMENSIONED ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS SHALL BE BASED ON SITE CONDITIONS. INSTALL ALL EQUIPMENT AS REQUIRED TO MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
- J. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING, AND OTHER CEILING-MOUNTED ITEMS, AND MAKE MINOR ADJUSTMENTS IN DIFFUSER LOCATIONS AND DUCTWORK AS REQUIRED.
- K. ALL ROOF CUTTING, PATCHING AND FLASHING REQUIRED TO INSTALL THE MECHANICAL SYSTEMS SHALL BE BY A LANDLORD-APPROVED ROOFING CONTRACTOR AT THIS CONTRACTOR'S EXPENSE. COORDINATE ROOF PENETRATIONS WITH LANDLORD AND GENERAL CONTRACTOR.
- L. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO LANDLORD'S BASE BUILDING SYSTEMS. RE-USE EXISTING CONNECTION POINTS WHERE POSSIBLE. COORDINATE ALL REQUIREMENTS IN FIELD WITH LANDLORD.
- M. NOTIFY TENANT'S PROJECT MANAGER IF ANY EXISTING DUCTWORK OR PIPING CONNECTION POINTS ARE SMALLER THAN SIZES SHOWN ON DRAWINGS.
- N. CONTRACTOR SHALL CLEAN AND SERVICE ALL EXISTING MECHANICAL EQUIPMENT THAT IS BEING RE-USED. REPAIR OR REPLACE UNIT COMPONENTS AS REQUIRED TO MAKE UNIT FULLY FUNCTIONAL, INCLUDING BUT NOT LIMITED TO: FANS, MOTORS, DRIVES, BELTS, BEARINGS, COILS, HEAT EXCHANGERS, REFRIGERATION, DAMPERS, DAMPER MOTORS, VALVES, AND OPERATING AND SAFETY CONTROLS. CHANGE FILTERS UPON COMPLETION OF SERVICE WORK AND JUST PRIOR TO JOB TURNOVER.
- O. EXISTING DUCTWORK MAY BE RE-USED WHERE EXISTING DUCT SIZES AND CONDITIONS MEET OR EXCEED THOSE SHOWN AND SPECIFIED. DUCT SIZES SHOWN ON DRAWINGS ARE MINIMUM REQUIRED SIZES. CLEAN ALL RE-USED DUCTWORK THOROUGHLY PRIOR TO CONNECTION TO NEW. INSULATE EXISTING DUCTWORK BEING RE-USED AS REQUIRED TO MEET SPECIFICATIONS FOR NEW DUCTWORK. DO NOT RE-USE LINED DUCTWORK.
- P. REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING SYSTEMS, CONTROLS, ETC. NOT BEING RE-USED. DO NOT ABANDON IN PLACE. MAINTAIN SERVICES PASSING THROUGH SPACE TO OTHER TENANT SPACES.
- Q. CONTRACTOR MAY, AT HIS OPTION, INSTALL ROUND SPIRAL DUCTWORK OF EQUIVALENT CAPACITY IN LIEU OF RECTANGULAR DUCTWORK SHOWN AS LONG AS CEILING HEIGHTS ARE NOT AFFECTED.
- R. FIBERGLASS DUCTBOARD IS NOT ALLOWED.

REPORT TO TENANT, LANDLORD AND ENGINEER.

- S. BRANCH DUCT RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK, UNLESS SHOWN OTHERWISE.
- T. RIGID DUCTWORK SHALL BE UTILIZED FOR ALL RUNOUTS TO DIFFUSERS IN OPEN CEILING AREAS.
- U. ADJUST DISCHARGE PATTERN OF ADJUSTABLE-THROW DIFFUSERS TO FULL VERTICAL POSITION.
- V. CONTRACTOR SHALL BALANCE ALL HVAC SYSTEMS IN ACCORDANCE WITH THE MECHANICAL SPECIFICATIONS. SUBMIT COPIES OF TEST & BALANCE



HVAC CONTROLS

ROOFTOP HEAT PUMP UNIT WITH SUPPLEMENTAL ELECTRIC HEAT:

RELOCATE EXISTING THERMOSTAT AS SHOWN. PROVIDE CLEAR LOCKING COVER.

SEQUENCE OF OPERATION COOLING CYCLE - OCCUPIED HOURS:

TO THE MINIMUM POSITION.

UPON A RISE IN SPACE TEMPERATURE ABOVE THE OCCUPIED COOLING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. THE OUTDOOR AIR DAMPER SHALL BE OPEN TO THE MINIMUM POSITION.

HEATING CYCLE - OCCUPIED HOURS: UPON A DROP IN SPACE TEMPERATURE BELOW THE OCCUPIED HEATING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. UPON A FURTHER CALL FOR HEAT, THE SUPPLEMENTAL ELECTRIC HEATING COIL SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY AND THE OUTDOOR AIR DAMPER SHALL BE OPEN

COOLING CYCLE - UNOCCUPIED HOURS: UPON A RISE IN SPACE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL CYCLE AS REQUIRED AND THE OUTDOOR AIR DAMPER SHALL BE CLOSED.

HEATING CYCLE - UNOCCUPIED HOURS: UPON A DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT OF THE THERMOSTAT, THE REFRIGERATION SYSTEM SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. UPON A FURTHER CALL FOR HEAT, THE SUPPLEMENTAL ELECTRIC HEATING COIL SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE AT THE THERMOSTAT SETPOINT. THE SUPPLY FAN SHALL CYCLE AS REQUIRED AND THE OUTDOOR AIR DAMPER SHALL BE CLOSED.

GRILLE AND DIFFUSER SCHEDULE (1)

FIRE PROTECTION

ALL SPRINKLER HEADS LOCATED IN CEILING GRID ARE TO MATCH EXISTING.

SEE SHEET M2.0 SECTION 15300 FOR FIRE PROTECTION SPECIFICATIONS.

24-HOUR NOTICE REQUIRED FOR SYSTEM DRAIN DOWN FOR WORK.

RETURN

LAY-IN

TITUS

PAR

STD. WHITE FINISH

24"X24" FACE W/

DESCRIPTION

REMARKS

MANUFACTURER

MODEL NUMBER

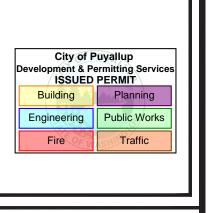
| 1. | EXISTING HEAT PUMP ROOFTOP UNIT TO REMAIN (TRANE WSC006 |
|----|--|
| | 5 TONS) RE-BALANCE UNIT TO 2050 CFM SUPPLY AIR AND |
| | 260 CFM OUTDOOR AIR. SEE GENERAL NOTES FOR EQUIPMENT |
| | REFURBISHING REQUIREMENTS. FIELD VERIFY EXACT LOCATION IN FIELD. |

- 2. RELOCATE EXISTING THERMOSTAT TO LOCATION SHOWN. CLEAN
- 3. IF NOT ALREADY EXISTING FURNISH AND INSTALL DUCT SMOKE DETECTORS IN MAIN RETURN DUCT. INTERLOCK WITH HVAC UNIT FOR AUTOMATIC SHUTDOWN OF UNIT UPON DETECTION OF SMOKE. CONNECTION OF DUCT DETECTOR TO FIRE ALARM
- 4. REUSE EXISTING SUPPLY DIFFUSER. RE-BALANCE TO CFMS
- 5. REUSE EXISTING RETURN GRILLE. RE-BALANCE TO CFMS SHOWN.
- 6. REUSE AND RELOCATE EXISTING SUPPLY DIFFUSER TO FIT INTO NEW CEILING LAYOUT AS SHOWN. RE-BALANCE TO CFMS
- 7. REUSE AND RELOCATE EXISTING RETURN GRILLE TO FIT INTO NEW CEILING LAYOUT AS SHOWN. RE-BALANCE TO CFMS
- 10. EXISTING SPRINKLER SYSTEM TO REMAIN. CLEAN AND REPAIR
- 11. PROVIDE NEW RETURN GRILLE AS SCHEDULED. EXTEND NEW

KEY NOTES

- AND REPAIR TO LIKE NEW CONDITION.
- SYSTEM, IF REQUIRED, WILL BE BY ELECTRICAL CONTRACTOR.
- SHOWN. CLEAN AND REPAIR TO LIKE NEW CONDITION.
- CLEAN AND REPAIR TO LIKE NEW CONDITION.
- SHOWN. CLEAN AND REPAIR TO LIKE NEW CONDITION.
- SHOWN. CLEAN AND REPAIR TO LIKE NEW CONDITION.
- 8. EXISTING TOILET ROOM EXHAUST SYSTEM TO REMAIN. CLEAN AND REPAIR TO LIKE-NEW CONDITION.
- 9. MODIFY EXISTING SPRINKLER SYSTEM AS REQUIRED FOR NEW CEILING. CLEAN AND REPAIR TO LIKE NEW CONDITION.
- TO LIKE NEW CONDITION.
- RETURN DUCTWORK TO EXISTING. FIELD VERIFY EXACT LOCATION OF EXISTING DUCTWORK IN FIELD.

HALLBERG **ENGINEERING** Mechanical/Electrical Consulting Engineers 1750 Commerce Court White Bear Lake, MN 55110 (651) 748-1100 Fax (651) 748-9370 EXPIRES: 02/25/2026 10/25/2024





A HILL MALL MERIDIAN / #503 LUP, WA 983 SOUTH 3500 S. I SPACE 7

10/24/2024 Preliminary Issue: 10/24/2024 Bid Issue: Landlord Issue: 10/24/2024 10/24/2024 Permit Issue:

HVAC PLAN

Construction Issue:

Comm. Number R24-4856.028 10/24/2024

15000 GENERAL PROVISIONS

- 0.01 DEFINITIONS: THE TERMS LISTED BELOW ARE DEFINED AS FOLLOWS WHEN USED IN DIVISION 15 WORK AND ONLY DIVISION 15 WORK.
- A. WORK: LABOR AND MATERIALS OF THE CONTRACTOR AND/OR SUBCONTRACTOR. B. FURNISH: OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE
- JOBSITE IN NEW CONDITION AND GUARANTEE. C. INSTALL: RECEIVE AT THE JOB-SITE, UNLOAD, STORE, SET IN PLACE, CONNECT, PLACE IN OPERATION AND GUARANTEE.
- PROVIDE: FURNISH AND INSTALL. CONNECT: BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENTS INCLUDING
- NECESSARY PIPE FITTINGS, DUCTWORK, TRANSITIONS, ETC. F. CONCEALED: HIDDEN FROM SIGHT IN CHASES, FURRED SPACES, SHAFTS, ABOVE CEILING,
- EMBEDDED IN CONSTRUCTION. IN CRAWL SPACES OR BURIED. G. EXPOSED: NOT INSTALLED UNDERGROUND OR CONCEALED AS DEFINED ABOVE. H. REMOVE: REMOVE ALL EQUIPMENT AND MATERIALS NOT BEING RE-USED. DISPOSE OF OFF-SITE IN A LEGAL AND ENVIRONMENTALLY CONCIOUS MANNER.
- 0.02 PERFORMANCE: MECHANICAL CONTRACTOR SHALL PERFORM ALL WORK SPECIFIED, INDICATED AND REQUIRED UNLESS OTHERWISE NOTED, INCLUDING FINAL CONNECTIONS, IN A WORKMANLIKE MANNER USING WORKERS SKILLED AND EXPERIENCED IN THE TRADE.
- 0.03 SITE EXAMINATION: EXAMINE SITE BEFORE BIDDING. CLAIM NO EXTRAS RESULTING FROM LACK OF KNOWLEDGE OF SITE CONDITIONS. IF SITE CONDITIONS REQUIRE MODIFICATION OF THE SYSTEMS INDICATED IN THESE DOCUMENTS, SO ADVISE ENGINEER, AND IF ACCEPTED BY ENGINEER, INCLUDE COST OF SUCH MODIFICATIONS IN BID.
- 0.04 JOBSITE CONDITIONS: ACCEPT SOLE AND COMPLETE RESPONSIBILITY FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE
- 0.05 FULL FUNCTION: PROVIDE ALL MINOR ITEMS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
- 0.06 ADMINISTRATION: PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PERFORM OTHER ADMINISTRATIVE FUNCTIONS, AS REQUIRED.
- 0.07 PERMITS: PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- 0.08 UTILITY SERVICES: ARRANGE FOR ALL REQUIRED UTILITY SERVICES AND PAY ALL UTILITY SERVICE FEES. 0.09 COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS
- MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND ELECTRICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES. 0.10 CUTTING AND PATCHING: CUT AND PATCH AS REQUIRED. CUT OR WELD STRUCTURAL
- MEMBERS ONLY WITH APPROVAL OF STRUCTURAL ENGINEER. PATCHING SUBJECT TO APPROVAL BY ARCHITECT.
- 0.11EXISTING FLOORS: TRENCH OR CORE BORE EXISTING FLOORS PER LANDLORD REQUIREMENTS. 0.12 ROOF PENETRATIONS: ALL ROOFING WORK SHALL BE PERFORMED BY LANDLORD-APPROVED ROOFING CONTRACTOR AT THIS CONTRACTOR'S COST. COORDINATE WITH LANDLORD.
- 0.13 EQUIPMENT SUBSTITUTIONS: REIMBURSE ELECTRICAL CONTRACTOR, AT NO CHARGE TO TENANT, FOR HIS COSTS INCURRED DUE TO SUBSTITUTION OF MECHANICAL EQUIPMENT HAVING ELECTRICAL REQUIREMENTS DIFFERING FROM THOSE INDICATED.
- 0.14 ADJUSTMENTS: MAKE MINOR ADJUSTMENTS TO WORK WHERE REQUESTED BY TENANT, WHEN SUCH ADJUSTMENTS ARE NECESSARY TO PROPER OPERATION AND WITHIN THE INTENT OF THE
- 0.15 REFERENCE STANDARDS: COMPLY WITH APPLICABLE STANDARDS OF NFPA, ANSI, UL, ASHRAE, AND SMACNA, EXCEPT AS SUPERSEDED BY LOCAL AUTHORITY. CONFORM WITH CONTRACT DOCUMENTS WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.
- 0.16 LOCAL REQUIREMENTS: COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES, LANDLORD, SERVING UTILITIES, AND THE LOCAL AUTHORITY HAVING JURISDICTION. SECURE APPROVAL OF INSTALLATION BY LANDLORD. LOCAL AUTHORITY, AND OTHERS AS REQUIRED.
- 0.17 MATERIALS AND EQUIPMENT: PROVIDE NEW, UL LISTED, COMMERCIAL GRADE MATERIALS, DEVICES, EQUIPMENT, AND FIXTURES, SUITABLE FOR ENVIRONMENT. REUSE EXISTING ONLY WHEN COMPLIANT WITH THE CONTRACT DOCUMENTS, IN GOOD CONDITION, AND APPROVED BY THE ENGINEER.
- 0.18 SHOP DRAWINGS: BEFORE ORDERING EQUIPMENT AND MATERIALS, SUBMIT NOT LESS THAN FIVE CERTIFIED COPIES OF ALL SHOP AND EQUIPMENT DRAWINGS FOR ENGINEER'S REVIEW, WHO WILL RETAIN TWO COPIES. ONLY FURNISH SYSTEMS AND EQUIPMENT IN COMPLIANCE WITH ACCEPTED SHOP DRAWINGS.
- 0.19 INSTALLATION: INSTALL ALL MATERIALS, EQUIPMENT AND SYSTEMS IN FULL ACCORD WITH MANUFACTURER'S INSTRUCTIONS.
- 0.20 LAYOUT: INSTALL ALL PIPING AND DUCTWORK TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING CONSTRUCTION. MAINTAIN HEADROOM AND EQUIPMENT CLEARANCE, AND GRADIENT WHERE REQUIRED. ALLOW FOR EXPANSION AND
- 0.21 ACCESS DOORS: PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, DAMPERS, CONTROLS, DEVICES, AND OTHER ITEMS REQUIRING INSPECTION OR MAINTENANCE. ACCESS PANELS SERVING HVAC COMPONENTS SHALL BE 12-INCHES BY 12-INCHES MINIMUM OR LARGER TO PROVIDE SUFFICIENT WORKING CLEARANCE FOR COMPONENT BEING ACCESSED.
- 0.22 COMMISSIONING: THOROUGHLY TEST AND DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS AND EQUIPMENT FURNISHED OR INSTALLED UNDER THIS CONTRACT.
- 0.23 RECORD DRAWINGS: PREPARE AND SUBMIT TO GENERAL CONTRACTOR RECORD DRAWINGS SHOWING ALL SIGNIFICANT DEVIATIONS FROM CONSTRUCTION DOCUMENTS. INCLUDE MANUFACTURER AND MODEL NUMBERS FOR ALL EQUIPMENT INSTALLED.
- 0.24 O & M MANUALS: AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER OR OPERATOR. THE MANUAL SHALL INCLUDE BASIC DATA RELATING TO THE OPERATION AND MAINTENANCE OF HVAC SYSTEMS AND EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. WHERE APPLICABLE, HVAC CONTROLS INFORMATION SUCH AS DIAGRAMS, SCHEMATICS, CONTROL SEQUENCE DESCRIPTIONS, AND MAINTENANCE AND CALIBRATION INFORMATION SHALL BE INCLUDED.
- 0.25 WARRANTY: UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE, EXCEPT WARRANT AIR CONDITIONING COMPRESSORS FOR FIVE YEARS AND GAS-FIRED HEAT EXCHANGERS FOR 10 YEARS. DURING WARRANTY PERIOD, REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT OR WORKMANSHIP WITHOUT COST TO TENANT.
- 0.26 EQUIPMENT IDENTIFICATION: IDENTIFY ALL APPLICABLE ROOFTOP EQUIPMENT WITH TENANT'S NAME, SPACE NUMBER AND UNIT NUMBER, USING 2" HIGH PAINTED CHARACTERS OR STAMPED METAL TAG. LABEL INDOOR EQUIPMENT WITH UNIT NUMBER IN LIKE MANNER.
- 0.27 DRAWINGS ARE DIAGRAMMATIC: VERIFY ALL DIMENSIONS AND LENGTHS, AND ADJUST EQUIPMENT, PIPE AND DUCT LOCATIONS TO AVOID CONFLICTS WITH OTHER CONSTRUCTION AND
- 0.28 DOCUMENT PRIORITY: DRAWING INDICATIONS AND NOTATIONS SUPERSEDE THESE SPECIFICATIONS.
- 0.29 RATINGS: REFER TO DRAWINGS AND SCHEDULES FOR ADDITIONAL RATINGS AND REQUIREMENTS.
- 0.30 PROJECT REQUIREMENTS: REFER TO DRAWINGS FOR PARTICULAR PROJECT REQUIREMENTS. AS NOT ALL ITEMS INCLUDED IN THESE SPECIFICATIONS MAY BE REQUIRED FOR THIS PROJECT.
- 0.31 DOCUMENT ERRORS: NOTIFY THE ENGINEER OF ANY ERRORS, DISCREPANCIES OR OMISSIONS BEFORE CONSTRUCTION OR FABRICATION OF AFFECTED WORK, OR, FAILING SUCH NOTICE, BE RESPONSIBLE FOR CORRECTING SAME WITHOUT COST TO TENANT, ARCHITECT OR ENGINEER.

15050 DEMOLITION

0.51 FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED FOR CUTTING, DEMOLITION, REMOVAL, PATCHING, AND RESTORATION WORK NECESSARY TO ACCOMPLISH AND COMPLETE ALL DEMOLITION, INCLUDING ANY RELOCATION OR REUSE OF EXISTING MATERIALS, EQUIPMENT AND SYSTEMS. DO NOT ABANDON IN PLACE. DISPOSE OF ALL REMOVED MATERIALS AND DEBRIS IN LEGAL MANNER.

- 0.52 ACCOMPLISH ALL WORK OF CUTTING, REMOVAL, DEMOLITION, RELOCATION, PATCHING, AND RESTORATION BY USING ONLY MECHANICS SKILLED IN THE TRADE REQUIRED. PROVIDE FOR THE SAFETY OF THE EXISTING BUILDING AND PERSONNEL, AS WELL AS FOR NEW CONSTRUCTION AS A RESULT OF WORK, PROCEDURES, OPERATIONS OR ACTIVITIES UNDER THIS CONTRACT.
- 0.53 WHERE REMOVAL, DEMOLITION, CUTTING AND SIMILAR WORK INVOLVES STRUCTURAL CONSIDERATIONS, CONSULT WITH STRUCTURAL ENGINEER. EXERCISE EXTREME CARE TO AVOID DAMAGE, AND PRESERVE THE SAFETY OF THE STRUCTURE AND ALL PERSONNEL. PARTICULAR CARE SHALL BE TAKEN WHERE THE DEMOLITION OR REMOVALS OCCUR ADJACENT TO OCCUPIED
- 0.54 UTILIZE COMPETENT AND QUALIFIED TECHNICAL ASSISTANCE TO DEVELOP SAFE METHODS AND TECHNIQUES TO ACCOMPLISH THE WORK, INCLUDING TEMPORARY SHORING AND SUPPORTS METHODS OF REMOVAL AND OTHER CONSIDERATIONS. DESIGN AND PLACE ALL PERMANENT OR TEMPORARY SUPPORTS TO CARRY ALL LOADS DOWN TO SOUND BEARING.

15100 BASIC MATERIALS AND METHODS

- 1.10PIPE HANGERS AND SUPPORTS: PROPERLY SUPPORT ALL PIPING FROM JOISTS (TOP CHORD) OR OTHER STRUCTURAL MEMBERS. FOR PIPES UP TO 4" O.D., USE GRINNELL FIG. 260 CLEVIS HANGERS WITH 3/8" ROD, OR FIG. 195 BRACKETS.
- 1.20 INSULATION SHIELDS: PROVIDE 18 GAUGE X 12" LONG GALVANIZED INSULATION SHIELDS AT SUPPORT POINTS FOR INSULATED PIPES.
- 1.30 PIPE SUPPORT SPACING: SUPPORT PIPE NOT LESS THAN 6 FT. ON CENTER FOR COPPER PIPE UP TO 2" O.D., OR NOT LESS THAN 10 FT. ON CENTER FOR STEEL PIPE UP TO 4" O.D. 1.40 COPPER CONTACT: PROVIDE COPPER PLATED HANGERS AND SUPPORTS WHERE IN CONTACT
- WITH COPPER PIPE. 1.50 PIPE SLEEVES: SLEEVE ALL HORIZONTAL PIPING WHICH PENETRATES WALLS WITH STANDARD WEIGHT STEEL PIPE OF 1" GREATER DIAMETER THAN PIPE OR INSULATION O.D. CUT SLEEVE
- FLUSH WITH WALL. FINISH BOTH SIDES. 1.60 SEALANT: SEAL PIPE SLEEVES WITH ROPE AND EXPANDO NON-SHRINK SEALANT. FIRE/SMOKE
- SEAL PENETRATIONS OF RATED CONSTRUCTION TO MAINTAIN RATING. 1.70 WALL PLATES: FIT UNCOVERED PIPE PASSING THROUGH WALLS WITH WALL PLATES, CRANE NO. 10 OR EQUAL.

15200 THERMAL AND ACOUSTIC INSULATION

- 2.10 VIBRATION ISOLATION: PROVIDE EFFECTIVE VIBRATION ISOLATION DEVICES. AND FLEXIBLE CONNECTIONS, FOR ALL MOVING MACHINERY. PROVIDE DEVICES IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE ASHRAE HANDBOOK, HVAC APPLICATIONS (LATEST EDITION), CHAPTER "SOUND AND VIBRATION CONTROL".
- 2.20 NOISE TRANSMISSION: INSTALL PIPING AND DUCTWORK FREE FROM CONTACT WITH STRUCTURE OR EQUIPMENT TO PREVENT NOISE TRANSMISSION.
- 2.30 INSULATION REQUIREMENTS: INSULATE SYSTEMS AS SPECIFIED ONLY AFTER THEY HAVE BEEN TESTED AND INSPECTED. CLEAN ALL SURFACES THOROUGHLY OF MOISTURE, FOREIGN MATERIAL, GREASE, AND RUST. INSTALL INSULATION CONTINUOUS THROUGH WALL AND FLOOR
- 2.31 EXISTING SYSTEMS BEING RE-USED: INSULATE EXISTING PIPE AND DUCT SYSTEMS BEING RE-USED SAME AS SPECIFIED FOR NEW SYSTEMS. REPAIR/REPLACE EXISTING INSULATION TO LIKE-NEW CONDITION AS REQUIRED.
- 2.32 INSULATION HAZARDS: USE ONLY INSULATION, JACKETS, ADHESIVES, SEALERS, AND COATINGS WITH FIRE HAZARD RATING NOT TO EXCEED 25/50/50 FLAME SPREAD, FUEL CONTRIBUTED, AND SMOKE DEVELOPED, IN ACCORDANCE WITH UL 723 AND ASTM E84.
- 2.33 INSULATED PLUMBING SYSTEMS: INSULATE HOT AND COLD WATER PIPING WITH 1" THICK CLOSED CELL, SELF SEALING FLEXIBLE TUBING, ARMAFLEX 2000 OR EQUAL
- 2.35 ACOUSTICALLY LINED SUPPLY AND RETURN DUCT: UNLESS OTHERWISE INDICATED ON THE PLANS, LINE SUPPLY AND RETURN DUCTWORK WITHIN 10-FEET OF THE DISCHARGE AND INTAKE OF AIR MOVING EQUIPMENT WITH 1" THICK GLASS FIBER ACOUSTICAL DUCT LINER BOARD. OWENS-CORNING, OR EQUAL. INCREASE DUCT SIZE INDICATED ON PLANS 2" EACH DIMENSION TO ACCOMMODATE DUCT LINER. MATERIAL SHALL BE RATED FOR 4.000 FPM AIR VELOCITY AND SHALL HAVE A MOLD-, HUMIDITY-, AND CORROSION-RESISTANT SURFACE THAT MEETS THE REQUIREMENTS OF UL 181.
- 2.36 EXTERNALLY INSULATED SUPPLY AND RETURN DUCT: INSULATE SHEET METAL DUCTWORK WITH 1-1/2" THICK FIBERGLASS INSULATION WITH AN INTEGRAL VAPOR BARRIER FACING, OWENS-CORNING, OR EQUAL. INSULATION INSTALLED ON DUCTWORK WITHIN THE CONDITIONED SPACE OR RETURN AIR PLENUM SHALL HAVE MINIMUM R=6 HR-SQ.FT.-DEG. F/BTU-IN. THERMAL RESISTANCE. INSULATION INSTALLED ON EXTERIOR DUCTWORK SHALL HAVE MINIMUM R=8.0 HR-SQ.FT.-DEG. F/BTU-IN. THERMAL RESISTANCE. PORTIONS OF DUCTWORK WHICH ARE INTERNALLY LINED SHALL ALSO BE EXTERNALLY INMSULATED. EXTERNAL INSULATION INSTALLED ABOVE CEILINGS OR OTHERWISE OUT OF VIEW SHALL BE BLANKET TYPE. EXPOSED INSULATION SHALL BE RIGID TYPE. DO NOT INSULATE SUPPLY AIR DUCTWORK IN CONDITIONED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS (RETURN AIR PLENUMS ARE NOT CONSIDERED CONDITIONED SPACES). RETURN AIR DUCTWORK INSTALLED IN A RETURN AIR PLENUM NEED NOT BE EXTERNALLY INSULATED. EXTERIOR DUCTWORK AND INSULATION SHALL BE PROTECTED WITH A WEATHER-PROOF JACKET.
- 2.37 INSULATED OUTDOOR AIR AND EXHAUST DUCTWORK: EXTERNALLY INSULATE ALL OUTDOOR AIR DUCTWORK AND EXHAUIST DUCTWORK WITHIN 10-FEET OF THE BUILDING ENVELOPPE PENETRATION WITH 2" THICK GLASS FIBER INSULATION WITH KRAFT FOIL VAPOR BARRIER, MINIMUM R=8.0 HR-SQ.FT.-DEG. F/BTU-IN. THERMAL RESISTANCE, OWENS-CORNING, OR EQUAL.
- 2.40 INSULATED FLEXIBLE DUCT: GENERAL ENVIRONMENTAL CORPORATION TYPE G30A OR EQUAL. 5'-0" MAXIMUM LENGTH WITH A MINIMUM ELBOW RADIUS OF 1.5 X D AND A MINIMUM R = 5 HR SQ. FT.- DEG. F/BTU-IN. THERMAL RESISTANCE. USE ONLY FOR FINAL CONNECTIONS TO CEILING DIFFUSERS. DO NOT USE FOR VAV BOX INLET CONNECTIONS.

15300 FIRE PROTECTION

- 3.10 WORK INCLUDED: CONTRACTOR SHALL DESIGN, FURNISH, FABRICATE AND INSTALL A COMPLETE NEW OR MODIFIED FIRE PROTECTION SYSTEM THROUGHOUT THE ENTIRE SPACE. PROVIDE AN ENGINEERED AND HYDRAULICALLY CALCULATED DESIGN, UNLESS OTHERWISE REQUIRED BY THE LANDLORD OR THE AUTHORITY HAVING JURISDICTION, AND SECURE ALL NECESSARY APPROVALS.
- FOR A COMPLETE, OPERABLE AND APPROVED FIRE PROTECTION SYSTEM. 3.20 CODES AND STANDARDS: COMPLY WITH NFPA 13, OTHER APPLICABLE NFPA STANDARDS. ALL PERTINENT REQUIREMENTS OF FACTORY MUTUAL INSURANCE COMPANY, THE OWNER'S INSURANCE

3.15 INCLUDED ARE AUTOMATIC SPRINKLER SYSTEMS COMPLETE WITH PIPING, VALVES, HANGERS AND

SUPPORTS, SPRINKLER HEADS, FLOW SWITCHES, SLEEVES, APPURTENANCES AND ACCESSORIES

- COMPANY, AND ALL LOCAL AND STATE CODES AND ORDINANCES, AND THE FIRE MARSHALL HAVING JURISDICTION. 3.40 SHOP DRAWINGS: PRIOR TO ANY MATERIALS BEING DELIVERED TO JOBSITE, SUBMIT COMPLETE SPRINKLER SYSTEM SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO LANDLORD'S REPRESENTATIVE AND AUTHORITY HAVING JURISDICTION. DO NOT BEGIN INSTALLATION OF
- SYSTEM UNTIL APPROVALS FROM BOTH PARTIES HAVE BEEN OBTAINED. 3.60 SPRINKLER HEADS: UNLESS NOTED OTHERWISE ON DRAWINGS, SPRINKLER HEADS SHALL BE AS FOLLOWS:
- A. AREAS WITH FINISHED CEILING FRONT-OF-HOUSE: FULLY CONCEALED TYPE WITH COVERPLATE FACTORY-PAINTED TO MATCH CEILING COLOR. B. AREAS WITH FINISHED CEILING - BACK-OF-HOUSE: SEMI-RECESSED PENDANT TYPE WITH ESCUTCHEON PLATE, POLISHED CHROME FINISH. C. AREAS WITH NO FINISHED CEILING: STANDARD UPRIGHT TYPE, BRASS FINISH.
- 3.70 INSTALLATION: SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS, AND FLUSHED IN ACCORDANCE WITH NFPA STANDARDS.
- 3.80 TESTING: UPON COMPLETION OF INSTALLATION, TEST AND RE-TEST THE COMPLETE SYSTEM, MAKE ALL REQUIRED ADJUSTMENTS, AND SECURE APPROVAL OF LANDLORD AND AUTHORITY HAVING JURISDICTION.

15400 PLUMBING

- 4.10 DRAIN, WASTE AND VENT PIPING: A. BELOW GRADE:
 - 1. PVC PIPE ASTM D2665, WITH PVC FITTINGS AND ASTM D2855 SOLVENT WELD JOINTS WITH ASTM D2564 SOLVENT CEMENT.
 - NO-HUB CAST IRON SANITARY SYSTEM PER CISPI 301-69T.
 - SERVICE WEIGHT CAST IRON HUB AND SPIGOT WITH NEOPRENE GASKET, PER CISPI HSN-68T.

B. ABOVE GRADE:

- 1. NO-HUB CAST IRON SANITARY SYSTEM PER CISPI 301-69T.
- GALVANIZED PIPE WITH CAST IRON DRAINAGE FITTINGS. INDIRECT DRAINS: COPPER TUBE, ASTM B306, DWV, WITH COPPER FITTINGS AND SOLDERED JOINTS.

4.20 DOMESTIC (POTABLE) WATER SUPPLY PIPING:

I. TRAP SEAL PRIMER: JOSAM NO. 88250

- A. BELOW GRADE: TYPE K SOFT TEMPER COPPER TUBE, WITH NO JOINTS. B. ABOVE GRADE: TYPE L HARD TEMPER COPPER TUBE PER ASTM B88, WITH WROUGHT COPPER FITTINGS PER USASI B16.18 AND .18A.
- C. JOINTS: USE ONLY 95/5 LEAD-FREE SOLDER IN POTABLE WATER PIPING. PROVIDE DIELECTRIC UNIONS AT EVERY JUNCTION OF TWO DISSIMILAR METAL PIPE MATERIALS. 4.40 VALVES: FURNISH AND INSTALL VALVES WHERE INDICATED ON PLAN AND AS NECESSARY FOR
- PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. PROVIDE VALVES RATED FOR 125 PSIG OR GREATER WORKING PRESSURE IN WATER PIPING. A. CHECK VALVE UP TO 3": CRANE NO. 37, OR EQUAL B. GLOBE VALVE UP TO 3": CRANE NO. 1, 17TF, OR EQUAL
- GATE VALVE UP TO 3": CRANE NO. 428, 1334, OR EQUAL BALL VALVE UP TO 3": APOLLO SERIES 70-100, 70-200, OR EQUAL
- SHOCKSTOP: WADE W-5 (HOT), WADE W-10 (COLD), OR EQUAL
- BACKFLOW PREVENTER: WATTS NO. 9BD, OR EQUAL G. VACUUM RELIEF VALVE: WATTS NO. N36 - 3/4", OR EQUAL H. PRESSURE REDUCING VALVE: WATTS NO. U5 SERIES, OR EQUAL
- 4.50 PLUMBING FIXTURES AND EQUIPMENT: FURNISH AND INSTALL PLUMBING FIXTURES AND EQUIPMENT AS SCHEDULED ON DRAWINGS, OR APPROVED EQUAL.
- 4.60 INSTALLATION: A. INSTALL AND SECURE FIXTURES IN PLACE WITH WALL CARRIERS AND BOLTS. PROVIDE BRACKETS, BRACES AND REINFORCING ANGLES AS REQUIRED IN ALL PARTITIONS NOT
- SUFFICIENT IN THEMSELVES TO SUPPORT PLUMBING FIXTURES OR OTHER WALL-HUNG FQUIPMENT. B. INSTALL EACH FIXTURE WITH CHROME PLATED, 17 GAUGE TUBING TRAP WITH CLEANOUT EASILY REMOVABLE FOR SERVICING AND CLEANING.
- C. INSTALL COMPONENTS LEVEL, PLUMB AND SECURE SEAL FIXTURES TO WALL AND FLOOR SURFACES WITH SEALANT, COLOR TO MATCH FIXTURE. E. ROUTE PIPING IN ORDERLY MANNER. INSTALL PIPING TO CONSERVE BUILDING SPACE AND NOT INTERFERE WITH USE OF SPACE. GROUP PIPING AT COMMON ELEVATION WHENEVER PRACTICAL. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED FIXTURES/EQUIPMENT. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS. PROVIDE ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. SLOPE PIPING AND ARRANGE TO DRAIN
- AT LOW POINTS. F. INSTALL NON-CONDUCTING DIELECTRIC CONNECTIONS WHENEVER JOINING DISSIMILAR METALS. G. PROVIDE SHUT-OFF VALVES AT ALL SUPPLY CONNECTIONS TO FIXTURES AND EQUIPMENT. H. INSULATE SUPPLY AND WASTE PIPES OF ALL HANDICAP FIXTURES.
- I. EXPOSED WATER PIPING SHALL BE CHROME-PLATED BRASS. 4.95 CLEANING AND TESTING: CLEAN, DISINFECT, AND TEST ALL PLUMBING AND PIPING SYSTEMS.

15500 HVAC PIPING AND SPECIALTIES

5.65 MISCELLANEOUS DRAIN LINES, RECEIVING COOLING COIL CONDENSATE, DRIP FOR HUMIDIFIERS, ETC.: TYPE "DWV" COPPER, WITH WROUGHT COPPER FITTINGS AND SOLDERED JOINTS. 15600 HVAC EQUIPMENT

A. FURNISH AND INSTALL HVAC EQUIPMENT AS SCHEDULED ON DRAWINGS, OR APPROVED

- B. ALL EQUIPMENT SHALL BE NEW, OF COMMERCIAL QUALITY, AND MANUFATURED BY AN APPROVED, NATIONALLY RECOGNIZED MANUFACTURER AS SCHEDULED ON DRAWINGS.
- C. ALL EQUIPMENT SHALL BE UL LISTED, AND CERTIFIED BY ARI, AMCA, OR OTHER APPLICABLE INDUSTRY STANDARD ORGANIZATION. D. INSTALLATION:
- 1. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

EQUIPMENT SHALL BE FLSHED INTO THE ROOF SYSTEM.

- 2. MAINTAIN SERVICE CLEARANCES RECOMMENDED BY MANUFACTURER. ALL EQUIPMENT SHALL BE SUPPORTED WITH VIBRATION ISOLATORS. 4. ALL ROOF-MOUTED EQUIPMENT SHALL BE SUPPORTED WITH FACTORY-FABRICATED FULL PERIMETER CURBS, UNLESS NOTED OTHERWISE. ALL SUPPORTS FOR ROOF-MOUNTED
- 5. CHANGE FILTERS ON ALL HVAC EQUIPMENT PRIOR TO TURN-OVER TO TENANT. 6.20 EXISTING EQUIPMENT BEING RE-USED SHALL BE CLEANED AND REFURBISHED AS NOTED ON

15800 DUCTWORK AND APPURTENANCES

8.10 SHEET METAL DUCTWORK:

- A. FABRICATE AND INSTALL AS RECOMMENDED IN LATEST EDITIONS OF <u>SMACNA HVAC D</u> CONSTRUCTION STANDARDS--METAL AND FLEXIBLE AND THE ASHRAE GUIDE AND DATA BOOK FOR SHEET METAL DUCTWORK SERVING SUPPLY, RETURN AND EXHAUST SYSTEMS OPERATING BETWEEN -2.0 IN.-W.G. AND +2.0 IN.-W.G. MAXIMUM PRESSURE. INSTALL WHERE INDICATED ON THE PLANS. DUCT SIZES SHOWN ON THE DRAWINGS ARE NOMINAL INSIDE CLEAR DIMENSIONS. WHERE INTERNAL INSULATION IS PROVIDED, DUCT SIZES SHALL BE INCREASED APPROPRIATELY TO MAINTAIN THE INDICATED CLEAR INSIDE DIMENSIONS. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH AND INSTALL ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A
- COMPLETEAND PROPERLY OPERATING SYSTEM. B. FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ANSI/ASTM A-527, LOCKFORMING QUALITY, WITH ANSI/ASTM A-525 G90 ZINC COATING; MILL PHOSPHATIZED FOR EXPOSED LOCATIONS. MINIMUM SHEET THICKNESS AND REINFORCING SHALL BE AS
- DUCTS UP TO 12" WIDEST DIMENSION OR DIAMETER: 26 GAUGE. DUCTS 13" TO 24" WIDEST DIMENSION: 24 GAUGE. DUCTS 25" TO 42" WIDEST DIMENSION: 22 GAUGE.
- DUCTS 43" TO 84" WIDEST DIMENSION: 20 GAUGE. C. DUCT SEALANT: UNITED DUCT SEALER, OR EQUAL
- D. SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS STRAPS, TRIM AND ANGLES FOR SUPPORT OF
- E. ANY SUPPLY DUCTWORK AND PLENUMS THAT ARE DESIGNED TO OPERATE AT STATIC PRESSURE FROM 0.25 INCHES TO 2 INCHES WATER COLUMN INCLUSIVE WHICH ARE LOCATED OUTSIDE OF THE CONDITIONED SPACE OR IN RETURN PLENUMS SHALL HAVE JOINTS SEALED IN ACCORDANCE WITH SEAL CLASS C AS DEFINED IN THE SMACNA HVAC DUCT LEAKAGE TEST MANUAL. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT WHERE SUCH DUCTS ARE DESIGNED TO OPERATE AT STATIC PRESSURES OF 1 INCH WATER COLUMN OR GREATER.
- F. EXPOSED DUCTWORK: EXPOSED DUCTWORK SHALL HAVE A PAINTABLE FINISH ON THE EXTERIOR SURFACE.
- 8.20 DUCTWORK ACCESSORIES: A. BALANCING DAMPERS: AIR BALANCE, INC., LOUVERS & DAMPERS, INC., RUSKIN OR EQUAL, PROVIDE MANUAL, SINGLE OR MULTIBLADE DAMPERS, AS INDICATED AND AS CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
- B. DAMPERS SHALL HAVE RIGID 2" X 1/2" X 10 GAUGE CHANNEL FRAMES, BALL OR BRONZE SLEEVE BEARINGS, 1/2" POLISHED STEEL AXLES, 16-GAUGE, REINFORCED, FELT-EDGED BLADES (NOT OVER 8" WIDE) AND STOP FRAMES AROUND THE ENTIRE PERIMETER. VOLUME DAMPERS IN DUCTS LARGER THAN 12" X 6" SHALL BE THE OPPOSED BLADE TYPE. DAMPERS IN ROUND DUCTS AND DUCTS 12" X 6" AND SMALLER SHALL BE BUTTERFLY TYPE. ROUND BUTTERFLY TYPE VOLUME DAMPERS SHALL BE 30 GAUGE, GALVANIZED STEEL
- THROUGH 12" DIAMETER; 28 GAUGE FOR ABOVE 12" C. ALL DAMPERS SHALL BE EQUIPPED WITH STANDARD QUADRANTS OF SUITABLE SIZE IN EQUIPMENT ROOMS/AREAS AND YOUNG #301A, OR EQUAL, RECESSED-TYPE IN FINISHED AREAS. PROVIDE QUADRANT LOCKING DEVICE FOR EACH DAMPER ON ONE END OF THE SHAFT AND AN END BEARING PLATE ON THE OTHER END FOR DAMPER LENGTHS OVER 12". PROVIDE EXTENDED QUADRANT LOCKS AND EXTENDED BEARING PLATES FOR EXTERNALLY INSULATED DUCTWORK. APPROVED MANUFACTURERS ARE VENTFABRICS, AND YOUNG
- D. DAMPERS SHALL BE COATED WITH RED ZINC CHROMATE PRIMER OVER A BOND COAT. VOLUME DAMPERS, SPLITTERS AND DEFLECTORS SHALL BE PROVIDED IN ALL DUCTS TO PERMIT ACCURATE BALANCING OF THE SYSTEM. THE DAMPERS, SPLITTERS AND DEFLECTORS SHALL BE ADJUSTED TO SATISFY THE HEATING AND VENTILATING REQUIREMENTS OF THE
- CONDITIONED SPACE AND LOCKED IN PLACE. F. WHERE SHOWN ON DRAWINGS AND IN CASES OF INACCESSIBLE VOLUME DAMPERS, PROVIDE REMOTELY ADJUSTABLE VOLUME DAMPERS, YOUNG REGULATOR, OR EQUAL.

- 8.40 AIR OUTLETS AND INLETS: FURNISH AND INSTALL AIR TERMINALS AS SCHEDULED ON DRAWINGS, OR APPROVED EQUAL. THE CONTRACTOR SHALL PROVIDE MISCELLANEOUS ITEMS AS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPES OF WALLS AND CEILINGS USED ON THE PROJECT. THIS SHALL INCLUDE SUCH ITEMS AS FASTENERS, PLASTER
- 8.60 FLEXIBLE CONNECTIONS: PROVIDE FLEXIBLE DUCT CONNECTIONS WHEREVER DUCTWORK CONNECTS TO VIBRATION ISOLATED EQUIPMENT AND WHERE SHOWN OR NOTED. MAKE AIR-TIGHT JOINTS. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR THERMAL, AXIAL, TRANSVERSE

AND TORSIONAL MOVEMENT.

9.10 SPACE TEMPERATURE CONTROL: FURNISH AND INSTALL, UNLESS NOTED OTHERWISE, ALL THERMOSTATS, SENSORS, CONTROLLERS, RELAYS, CONTACTORS, DAMPERS, ACTUATORS, TUBING, CONTROL WIRING AND ALL OTHER ITEMS AND MATERIALS NECESSARY FOR A COMPLETE AND PROPERLY OPERATING TEMPERATURE CONTROL SYSTEM AS SPECIFIED. ALL THERMOSTATS AND OTHER CONTROL COMPONENTS SHALL BE HONEYWELL, OR APPROVED EQUAL, UNLESS SPECIFIED

- THROTTLING BY FIRST ADJUSTING FAN SPEED, THEN ADJUSTING DAMPERS IN MAIN DUCTS, AND THEN ADJUSTING DAMPERS IN BRANCH DUCTS IN ORDER TO MEET DESIGN FLOW CONDITIONS. FOR VAV SYSTEMS, ENSURE THAT ALL VAV BOXES ON THIS AIR HANDLER ARE ADJUSTED TO
- 9.53 HVAC CONTROL SYSTEMS SHALL BE TESTED TO ASSURE THAT CONTROL ELEMENTS ARE
- A. MECHANICAL CONTRACTOR SHALL HIRE A COMMISSIONING AGENT APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PROVIDE THE COMMISSIONING OF THE FOLLOWING
- MECHANICAL EQUIPMENT. B. COMMISSIONING AGENT SHALL PROVIDE WRITTEN REPORT ON ALL SYSTEMS COMMISSIONED. THIS REPORT SHALL BE PROVIDED TO THE TENANT, LANDLORD AND AUTHORITY HAVING

RINGS, SUPPORTS, ETC.

15900 SYSTEM CONTROL AND OPERATION

OTHERWISE. ALL CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR AND SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH DIVISION 16.

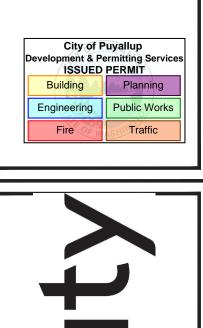
9.11THERMOSTATS: REFER TO "HVAC CONTROLS" ON DRAWINGS.

9.20 SEQUENCE OF OPERATION: REFER TO "HVAC CONTROLS" ON DRAWINGS.

15950 TESTING, ADJUSTING, BALANCING

- 9.51 NEBB, AABC, OR TABB CERTIFIED TESTING AND BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING AND BALANCING OF EVERY HEATING, VENTILATING AND AIR CONDITIONING SYSTEM. THE PERSON OR AGENCY RESPONSIBLE FOR BALANCING OF THE SYSTEMS SHALL DOCUMENT IN WRITING THE AMOUNT OF OUTDOOR AIR BEING PROVIDED AND DISTRIBUTED FOR THE BUILDING OCCUPANTS AND ANY OTHER SPECIALTY VENTILATION. TWO (2) COPIES OF A WRITTEN REPORT IN FORMAT LISTED ABOVE SHALL BE SUBMITTED TO THE OWNER, TWO (2) COPIES SHALL BE SUBMITTED TO THE LANDLORD PRIOR TO OCCUPANCY, AND TWO (2) COPIES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- 9.52 AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO MINIMIZE LOSSES FROM DAMPER THEIR RESPECTIVE MAXIMUM SETPOINTS DURING BALANCING TO ENSURE PROPER AIRFLOW WHEN SYSTEM IS OPERATING AT MAXIMUM (PEAK) COOLING CAPACITY. COORDINATE SETTING OF VAV BOXES IN OTHER TENANT SPACES IN FIELD WITH LANDLORD'S FIELD REPRESENTATIVE.
- CALIBRATED, ADJUSTED, AND IN PROPER WORKING ORDER
 - SYSTEMS (AS APPLICABLE FOR THIS PROJECT): 1. AIR SYSTEMS BALANCING. 2. FUNCTIONAL PERFORMANCE TESTING.
 - CONTROLS.
 - JURISDICTION AS REQUIRED.

HALLBERG **ENGINEERING** Mechanical/Electrical Consulting Engineers 1750 Commerce Court White Bear Lake, MN 55110 (651) 748-1100 Fax (651) 748-9370 EXPIRES: 02/25/2026 10/25/2024



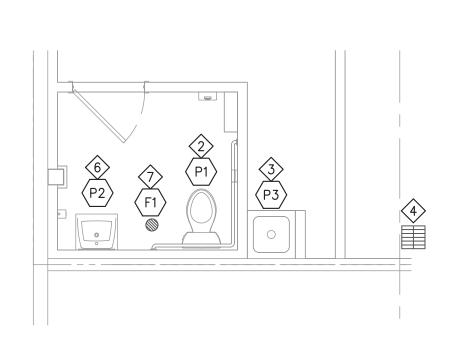
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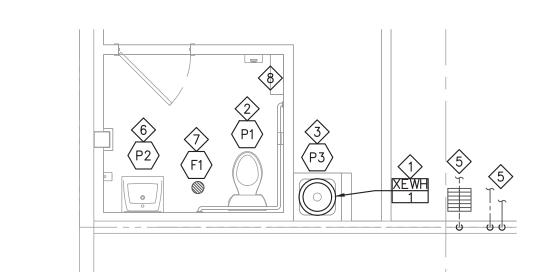
10/24/202 Preliminary Issue: 10/24/2024 Bid Issue: Landlord Issue: 10/24/202 10/24/2024 Permit Issue: Construction Issue:

MECHANICAL SPECIFICATIONS

Comm. Number R24-4856.028 10/24/202 Drawn Bv

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GENERAL NOTES

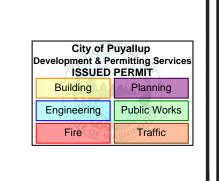
- A. SUBCONTRACTOR TO VERIFY POINT OF CONNECTION AND SCOPE OF WORK TO INSTALL ALL PLUMBING PIPING & EQUIPMENT TO SPACE PRIOR TO BID. IF INCONSISTENCIES OCCUR BETWEEN PLANS AND LANDLORD CRITERIA, OWNER'S CONSTRUCTION MANAGER SHALL BE NOTIFIED PRIOR TO BID SUBMITTAL.
- B. IN THE EVENT THAT THE GENERAL CONTRACTOR MUST PENETRATE THE ROOF, THE OWNER APPROVED ROOFER SHALL BE USED.
- C. ALL FLOOR DRAINS MUST HAVE TRAP SEAL PROTECTION.
- D. NO PLUMBING ALLOWED WITHIN TENANT DEMISING WALLS.
- E. NO UTILITIES, PIPING, WIRING, ETC. SHALL BE ABANDONED IN PLACE. REMOVE BACK TO NEAREST POINT OF USE AND MAKE SAFE.

KEY NOTES

- EXISTING WATER HEATER TO REMAIN, VERIFY EXACT LOCATION IN FIELD. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
- EXISTING WATER CLOSET TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
- 3. EXISTING MOP SINK TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
- 4. REMOVE EXISTING FLOOR SINK AND ASSOCIATED SANITARY PIPING BACK TO MAINS AND CAP. PATCH FLOOR TO MATCH EXISTING.
- 5. REMOVE EXISTING CW, HW AND VENT PIPING SERVING REMOVED SINK BACK TO TO MAINS AND CAP. PATCH WALL TO MATCH EXISTING.
- 6. REPLACE EXISTING LAVATORY WITH NEW LAVATORY AS SCHEDULED. MODIFY EXISTING PLUMBING AS REQUIRED TO MAKE NEW CONNECTIONS. NEW LOCATION IS APPROXIMATELY 5" FROM EXISTING LOCATION. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF NEW LAVATORY.
- 7. EXISTING FLOOR DRAIN TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.
- 8. EXISTING WATER METER TO REMAIN. ENSURE FUNCTIONALITY, CLEAN, AND REPAIR TO LIKE NEW CONDITION.

| | PLUMBING FIXTURE SCHEDULE | | | | | | | | | | |
|----------------|---------------------------|--------------------|-----------------------------|---------------------------|--------------|--------|--------|--------------------|------|------|---|
| FIXTURE NO. | FIXTURE TYPE | MANUFACTURER | TYPE & MODEL NO. | TRIM/FAUCET NO. | SUPPORT | TRAP | WASTE | PIPE SIZES VENT | CW | HW | REMARKS |
| P1 | WATER CLOSET | EXISTING TO REMAIN | - - | - - | _ _ | - | - | - | - | - | CLEAN EXISTING TO LIKE NEW CONDITION. |
| P2 | LAVATORY | AMERICAN STANDARD | LUCERNE (WHITE) 0355.012 | CHICAGO FAUCET 894-317 | WALL HUNG | 1-1/2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | PROVIDE INSULATED CAST BRASS P-TRAP, HANDICAP INSULATION KIT, (2) CHICAGO FAUCET 1016 ANGLE VALVES, WALL CARRIER, 0.5 GPM FLOW LIMIT, ASSE 1070 APPROVED POINT OF USE THERMOSTATIC MIXING VALVES. |
| P3 | MOP SINK | EXISTING TO REMAIN | - | - - | _ _ | - | - | - | _ | _ | CLEAN EXISTING TO LIKE NEW CONDITION. |
| F1 | FLOOR DRAIN | EXISTING TO REMAIN | - | - | - | - | _ | _ | - | _ | CLEAN EXISTING TO LIKE NEW CONDITION. |







BRANDED PARTNER
SOUTH HILL MALL
3500 S. MERIDIAN AVE.
SPACE #503
PUYALLUP, WA 98373

| Description | | | HO001 | PRC 1120241698 | |
|-------------|--|------|----------|----------------|-------|
| No. | | | | <u> </u> | |
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 10/24/2024

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PLUMBING PLAN AND RISER DIAGRAMS

 Comm. Number
 R24-4856.028

 Date
 10/24/2024

 Drawn By
 LAK

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