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1130 BROADWAY AVE., CHULA VISTA, CA 91911

COSTCO WHOLESALE CHULA VISTA, CA #781 1130 BROADWAY AVE., CHULA VISTA, CA 91911

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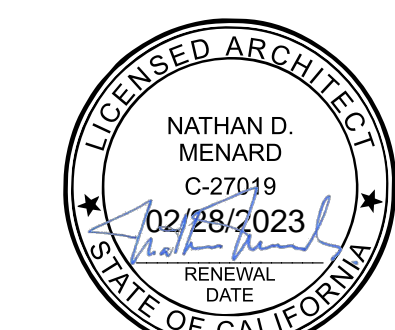
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PERMIT SET

KEY PLAN

NATHAN D. MENARD, ARCHITECT



11/15/2022

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99-5890-20 PM: ARTURO REINA DRAWN: MH

TITLE SHEET

TS101

PROJECT DIRECTORY

OWNER: COSTCO WHOLESALE, 999 LAKE DRIVE, ISSAQUAH, WA 98027. ARCHITECT: MG2 CORPORATION, 3333 MICHELSON DR., SUITE 100, IRVINE, CA 92612. STRUCTURAL ENGINEER: ENGINEERS NORTHWEST, 9725 THIRD AVE. N.E., SUITE 207, SEATTLE, WA 98115. MECHANICAL AND PLUMBING ENGINEER: T.E., INC., 830 N. RIVERSIDE DRIVE, SUITE 209, RENTON, WA 98055. ELECTRICAL ENGINEER: T.E., INC., 830 N. RIVERSIDE DRIVE, SUITE 209, RENTON, WA 98055.

PROJECT INFORMATION

ZONING DESIGNATION: C-C. ASSessor's PARCEL NUMBER: 618-200-61-00

PROJECT DESCRIPTION

DEMOLITION OF EXISTING HEARING AID CENTER. REMODEL INCLUDES THE INSTALLATION OF NEW (1) HEARING AID CENTER BOOTHS, CASEWORK, WALLS. AREA OF REMODEL: 314 S.F.

CODE ANALYSIS

- 2019 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2. 2019 CALIFORNIA ELECTRICAL CODE. 2019 CALIFORNIA MECHANICAL CODE. 2019 CALIFORNIA PLUMBING CODE. 2019 CALIFORNIA EXISTING BUILDING CODE. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN). 2019 CALIFORNIA ENERGY CODE. 2019 CALIFORNIA EXISTING BUILDING CODE. 2019 CALIFORNIA ADMINISTRATIVE CODE PART 1 AND PART 2.

FIRE GENERAL NOTES

- 1. A FIRE LIFE SAFETY INSPECTION IS REQUIRED PRIOR TO CONSTRUCTION FINAL. REQUEST INSPECTION 48-HOURS IN ADVANCE AT OXARD ORG/FIRE-PREVENTION. 2. A FIVE-YEAR CERTIFICATE INSPECTION REPORT OF THE FIRE SPRINKLER SYSTEM, BY A LICENSED C16 FIRE PROTECTION CONTRACTOR, MUST BE PROVIDED TO THE FIRE DEPARTMENT VIA WWW.THCOMPLIANCEMIBM.COM PRIOR TO FINAL INSPECTION. 3. SPRINKLER PROTECTION IS REQUIRED UNDER EXTERIOR ROOFS, CANOPIES, AND OVERHANGS OVER FOUR-FEET IN WIDTH. ADDITIONAL SPRINKLER HEADS MAY BE REQUIRED BASED ON FIELD CONDITIONS AS DEEMED NECESSARY BY THE FIRE INSPECTOR. 4. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTHS, CONCESSION STAND OR EQUIPMENT THAT EXCEED 4-FEET IN WIDTH.

ARCHITECTURAL SYMBOLS

SYMBOLS section containing DETAIL, WALL SECTION, INTERIOR ELEVATION, and WALL TYPES. Includes symbols for new construction, existing construction, and various wall materials like metal studs, steel, wood blocking, and wood member.

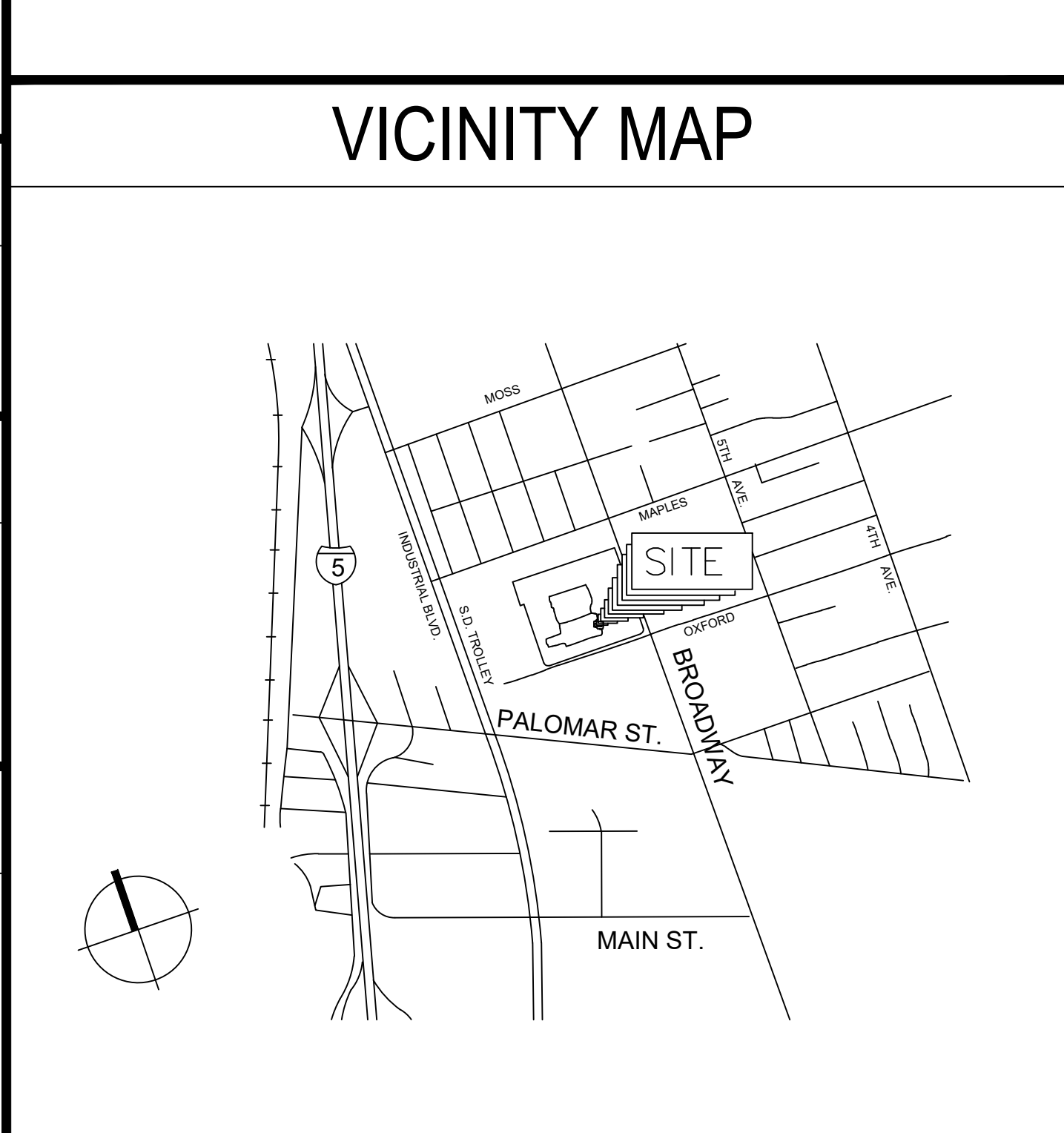
DRAWING INDEX

Table listing drawing titles and sheet numbers: TS101 TITLE SHEET, G202 EXISTING RESTROOM ACCESSIBILITY FEATURES, G203 CAL GREEN, G204 CAL GREEN, G205 CAL GREEN, A101 OVERALL CONCEPT FLOOR PLAN, A509 HEARING AID CENTER ENLARGED PLANS, ELEVATION, AND DETAILS, A601 ROOM FINISH SCHEDULE AND TYPICAL INTERIOR DETAILS, S1.1 GENERAL NOTE AND PARTIAL CEILING PLAN, MP-1 MECHANICAL AND PLUMBING PLANS, NOTES, AND LEGENDS, MP-2 MECHANICAL AND PLUMBING SCHEDULES, AND DETAILS, E-1 PARTIAL FLOOR PLAN, ENLARGED POWER PLAN, PANEL SCHEDULES, LEGEND AND NOTES.

DEFERRED SUBMITTAL

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL DOCUMENTS.

VICINITY MAP



ARCHITECTURAL ABBREVIATIONS

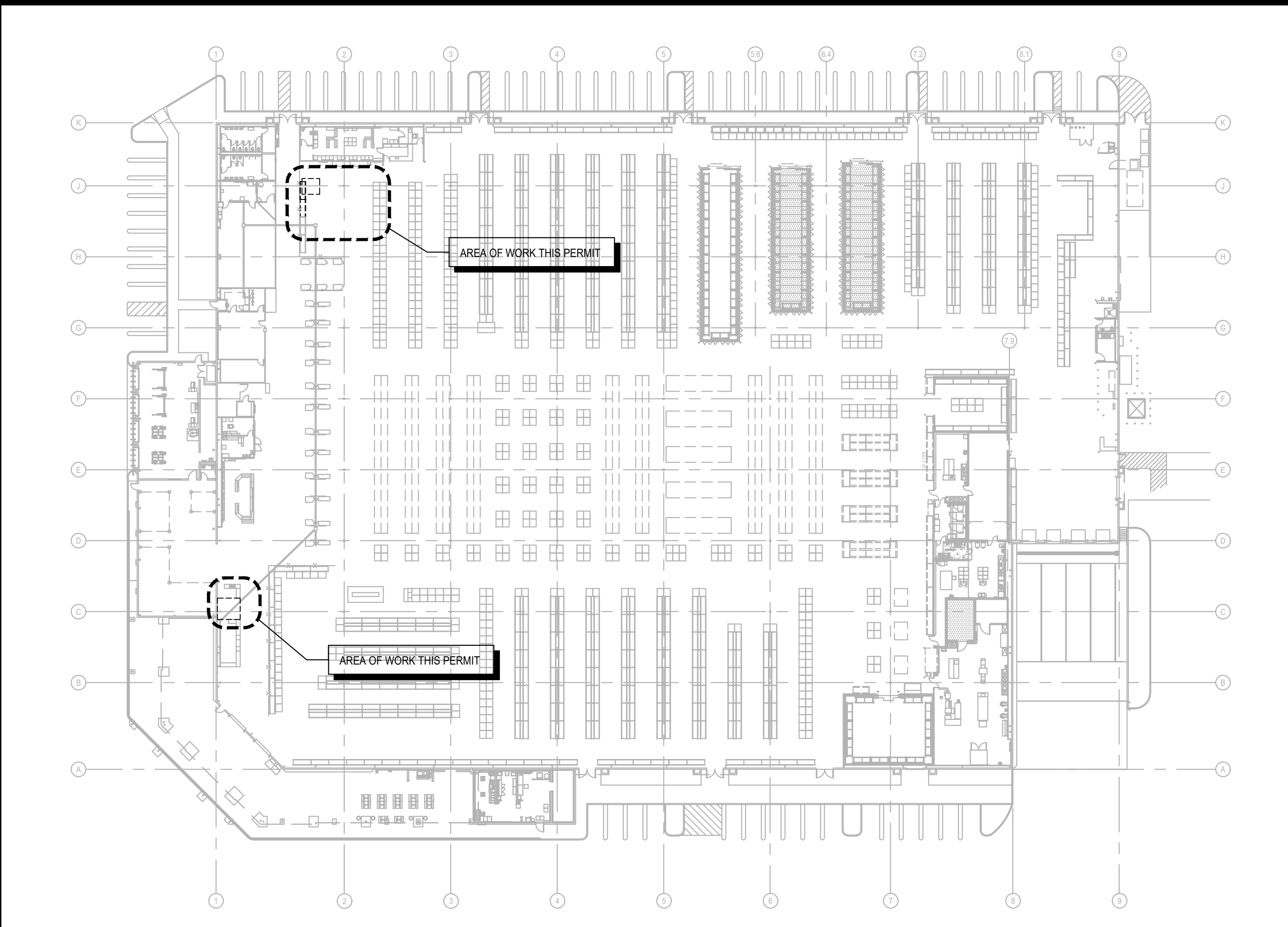
Table of architectural abbreviations: AFF ABOVE FINISHED FLOOR (SLAB), BFF BELOW FINISHED FLOOR (SLAB), BOT BOTTOM, CL CENTER LINE, CLR CLEAR, CLG CEILING, CMU CONCRETE MASONRY UNIT, COL COLUMN, CONC CONCRETE, EA EACH, ELEV ELEVATION, EQ EQUAL, EXT EXTERIOR, FF FACTORY FINISH, FRP FIBER REINFORCED PLASTIC PANEL(S), FR1 FIRE RETARDANT TREATED FINISH TO FINISH FACE, GC GENERAL CONTRACTOR, GWB GYPSUM WALLBOARD, GYPSUM HORIZONTAL, HVAC HEATING, VENTILATION, AND AIR CONDITIONING, IBC INTERNATIONAL BUILDING CODE, NTS NOT TO SCALE, OC ON CENTER, O TO O OUT TO OUT, PERR PERPENDICULAR, PLYWD PLYWOOD, R RADIUS, RCP REFLECTED CEILING PLAN, RD ROOF DRAIN, RL RAIN LEADER, REFRIG REFRIGERATION, SIO SUPPLIED AND INSTALLED BY OWNER, SIV SUPPLIED BY OWNER INSTALLED BY CONTRACTOR, SOV SUPPLIED BY OWNER INSTALLED BY VENDOR, SQ SQUARE, SS SERVICE SINK, SANITARY SEWER, SST STAINLESS STEEL.

PROJECT GENERAL NOTES

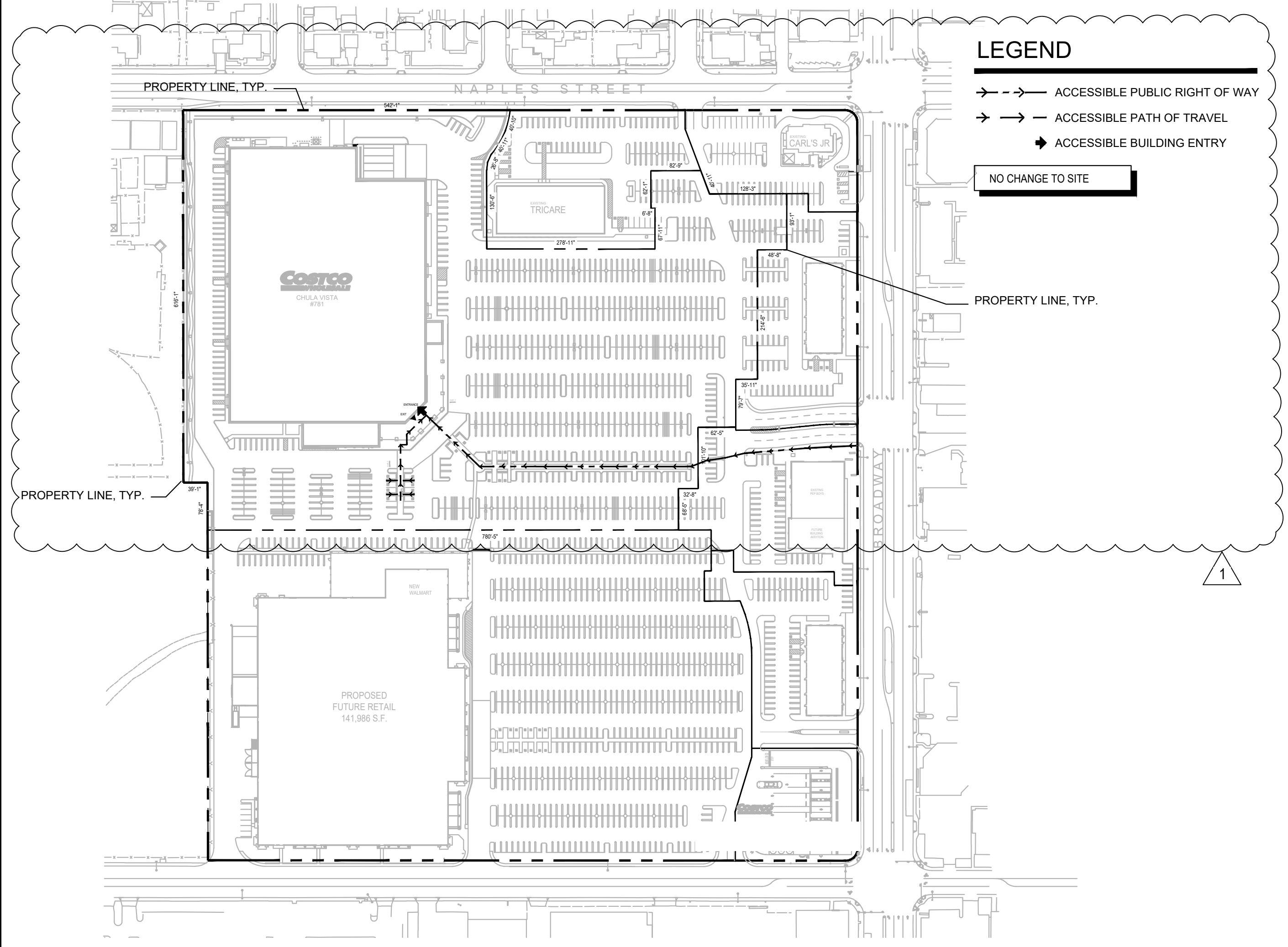
- GENERAL NOTES: 1. THESE GENERAL NOTES APPLY TO THE ENTIRE PROJECT AND APPLY TO ALL TRADES. 2. DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 30x42 INCHES. 3. CONSULT DRAWINGS OTHER THAN ARCHITECTURAL DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS. 4. CONDITIONS AND DIMENSIONS SHOWN ON SITE PLANS ARE FROM A SURVEY PREPARED BY OTHERS OR FROM AVAILABLE RECORDS. THE ARCHITECT BEARS NO RESPONSIBILITY FOR THE ACCURACY OF INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING INFORMATION SHOWN PRIOR TO STARTING THE WORK. a. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES. b. VERIFY ALL INVERT ELEVATIONS AT POINTS OF CONNECTIONS OF NEW WORK PRIOR TO STARTING ANY WORK. c. EXISTING UTILITIES SHOWN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE ONLY. d. IF NECESSARY TO COMPLETE THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY ADDITIONAL UTILITY LOCATIONS AND SIZES NOT SHOWN. 5. THE CONTRACTOR SHALL TAKE ALL POSSIBLE CARE TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIRING ANY CONTRACTOR-CAUSED DAMAGE TO THE UTILITIES. SUCH REPAIRS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE AND IN SUCH A MANNER AS TO BE LEAST-DISRUPTIVE AS POSSIBLE TO THE OWNER'S OPERATIONS. 6. DO NOT SCALE THE DRAWINGS TO OBTAIN DIMENSIONS. WRITTEN DIMENSIONS GOVERN. USE ACTUAL FIELD MEASUREMENTS. 7. DIMENSIONS ARE TO/FROM THE: a. CENTERLINE OF INTERIOR COLUMNS. b. GRID LINES ADJACENT TO THE EXTERIOR WALL (FACE OF THE COLUMN CLOSEST TO THE EXTERIOR WALL IS THE GRID LINE). c. EDGE OR CENTERLINE OF OPENINGS AS INDICATED. d. FACE OF STUDS. e. FACE OF CONCRETE OR MASONRY (NOMINAL). f. ALL HEIGHTS ARE TO BE DIMENSIONED FROM THE TOP OF THE SLAB (ALSO NOTED AS FINISHED FLOOR OR INDICATED BY THE 'DATUM' SYMBOL, UNLESS NOTED OTHERWISE. g. ALL DIMENSIONS NOTED 'CLEAR' SHALL BE MAINTAINED AND SHALL ALLOW FOR THE THICKNESS OF ALL FINISHES INCLUDING CARPETING, TILE, WOODSLOT AND TRIM. h. ALL DOORS NOT LOCATED BY DIMENSIONS ON PLANS OR DETAILS SHALL BE LOCATED SO THE EDGE OF THE DOOR OPENING IS 6-INCHES AWAY FROM THE FACE OF ANY ADJOINING INTERSECTING WALL. 8. VERIFY ALL DIMENSIONS OF EXISTING CONDITIONS. NEITHER THE ARCHITECT NOR HIS CONSULTANTS ARE RESPONSIBLE FOR THE ACCURACY OF THESE DIMENSIONS. IF EXISTING CONDITIONS OR DIMENSIONS ARE NOT AS SHOWN, IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. 9. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR, SUBCONTRACTORS, OWNER OR OTHERS. 10. THE CONTRACTOR SHALL CONSULT DRAWINGS OF ALL TRADES FOR OPENINGS THROUGH SLABS, WALLS, CEILINGS AND ROOFS FOR DUCTS, PIPES, CONDUIT, CABINETS, EQUIPMENT, ETC. AND SHALL VERIFY THE SIZES AND LOCATIONS WITH SUBCONTRACTORS. 11. PLACE NO OBSTRUCTIONS, INCLUDING MAINS, PIPING, CONDUIT, ETC. OF ANY KIND SO AS TO IMPAIR GIVEN CEILING HEIGHTS AND CLEARANCES. RUN PIPING, CONDUITS, ETC. IN JOIST DEPTH. DO NOT RUN BELOW SKYLIGHTS. 12. ALL CONDUITS, PIPING, ETC. SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS; DO NOT RUN AT AN ANGLE TO THE WALLS. 13. IN ROOMS OR SPACES SCHEDULED TO RECEIVE WALL AND/OR CEILING FINISHES, DO NOT RUN EXPOSED CONDUITS, PIPING, ETC. ON WALLS OR CEILINGS. 14. ALL WORK IS TO BE PLUMB, LEVEL, TRUE TO LINE, AND STRAIGHT. 15. ALL JOINTS ARE TO BE TIGHT, STRAIGHT, EVEN, AND SMOOTH. 16. ALL MATERIAL IS NEW UNLESS NOTED OTHERWISE. 17. PROVIDE ALL FASTENERS AND CONNECTIONS (WHETHER INDICATED OR NOT) NECESSARY TO ASSEMBLE THE WORK. 18. PROVIDE SOLID BLOCKING/BACKING FOR ALL WALL MOUNTED FIXTURES AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, SINKS, WALL BRACKETS AND WALL-HUNG ITEMS. 19. PREPARE SURFACE AND REMOVE SURFACE FINISHES TO PROVIDE FOR PROPER INSTALLATION ON NEW WORK AND FINISHES. COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS. 20. REPAIR, PATCH, OR REPLACE PORTIONS OF WORK THAT ARE DAMAGED, LIFTED, DISCOLORED, OR SHOWING OTHER IMPERFECTIONS. 21. PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH AN APPROVED MATERIAL AS APPROVED BY THE JURISDICTION. 22. CONSTRUCTION ACTIVITIES SHALL NOT AFFECT THE OWNER'S OPERATIONS. LOUD ACTIVITIES (JACK-HAMMERING, SAW-CUTTING, ETC.) AND ANY WORK REQUIRING INTERRUPTIONS OF UTILITIES (WATER, ELECTRICITY, GAS, FIRE, SPRINKLERS/ALARM, SEWER, ETC.) SHALL BE PERFORMED DURING NON-BUSINESS HOURS AS APPROVED BY THE OWNER. ENSURE UNINTERRUPTED SECURITY AND PHONE SYSTEMS OPERATION. 23. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY AND SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNS, REFLECTORS, LIGHTS, ETC. TO PROPERLY IDENTIFY AREAS CLOSED TO THE PUBLIC AND FOR PROVIDING SAFETY ALERTS DURING CONSTRUCTION. 24. ALL WORK IS TO COMPLY WITH THE APPLICABLE CODES. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING REGULATION. 25. PROVIDE SEALANT AND BACKER ROD ALL AROUND EXTERIOR WALL PENETRATIONS (CONDUITS, FIXTURES, ETC.) AND OPENINGS (DOOR FRAMES, WINDOWS, ETC.). 26. THE CONTRACTOR SHALL CONFIRM IF CONCRETE SLABS ARE POST-TENSIONED. IF ANY SLAB IS POST-TENSIONED, THE CONTRACTOR SHALL ACCURATELY LOCATE TENDONS, CONDUITS, PIPES, ETC. USING NON-DESTRUCTIVE TESTING METHODS SUCH AS IMAGING, INDUCED CURRENT METAL DETECTOR, ETC. AS RECOMMENDED BY THE POST-TENSIONING INSTITUTE. IF ANY PROPOSED PENETRATION IS IN CONFLICT WITH TENDONS, ETC., IMMEDIATELY NOTIFY THE ARCHITECT PRIOR TO PERFORMING ANY WORK.

- DEMOLITION AND REMODEL CONSTRUCTION GENERAL NOTES: 1. THE BUILDING WILL BE OCCUPIED AND IN FULL USE BY THE OWNER DURING CONSTRUCTION. 2. CONSTRUCTION THAT MAY AFFECT THE PUBLIC SHALL BE DONE DURING OFF-HOURS. 3. AREAS OF DEMOLITION SHALL INCLUDE, BUT ARE NOT LIMITED TO, ANY STRUCTURAL, PLUMBING, ELECTRICAL, MECHANICAL, FIRE SPRINKLER, ETC. ITEMS NECESSARY TO COMPLETE THE DEMOLITION WORK. THE CONTRACTOR IS TO REMOVE ALL WALLS, BOLLARDS, MISC. STEEL, PLUMBING, ELECTRICAL, RAISED CONCRETE SLAB, CURBS, REBARS, ETC. ASSOCIATED WITH DEMOLITION OF AREAS SHOWN. 4. ALL REMOVED ITEMS NOT DESIGNATED FOR REUSE SHALL BE OFFERED IN GOOD CONDITION TO THE OWNER. DURING THE BIDDING PERIOD, COORDINATE AND VERIFY WITH THE OWNER AS TO WHICH ITEMS ARE TO BE SALVAGED. 5. DO NOT INTERRUPT ANY SERVICES (WATER, PLUMBING, FIRE SPRINKLER, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER. 6. MAINTAIN FIRE SPRINKLER AND FIRE ALARM SYSTEM IN OPERATING CONDITION AT ALL TIMES. NOTIFY THE OWNER AND COORDINATE AT LEAST 48-HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING THE FIRE SPRINKLER OR FIRE ALARM SYSTEMS. PROVIDE FIRE WATCH AS REQUIRED BY JURISDICTION. 7. PROVIDE AND MAINTAIN EGRESS PATHS THROUGHOUT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, EXIT SIGNS, LIGHTING, FIRE SPRINKLERS, ETC. OBTAIN FIRE MARSHAL APPROVAL PRIOR TO CLOSING ANY EGRESS OPENINGS AND/OR EGRESS PATHS DURING DEMOLITION/CONSTRUCTION. 8. THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES WITHIN PROXIMITY OF THE WORK AREA PRIOR TO EXCAVATION. 9. EXISTING UTILITIES SHOWN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE ONLY. VERIFY ALL INVERT ELEVATIONS AT POINTS OF CONNECTIONS OF NEW WORK TO EXISTING PRIOR TO STARTING ANY WORK. 10. PROVIDE TEMPORARY DUST PARTITIONS AS REQUIRED TO PREVENT DUST AND DEBRIS FROM SETTLING ON ADJACENT AREAS NOT UNDER CONSTRUCTION. REVIEW WITH AND OBTAIN OWNER'S APPROVAL FOR LOCATIONS. 11. CAP ALL UTILITIES AND DRAIN LINES BELOW THE FLOOR AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR FLOOR PATCHING. 12. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION. 13. WHEN CUTTING AND PATCHING, THE CONTRACTOR SHALL USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS RETAINED OR ADJOINING SURFACES. CUT HOLES AND SLOTS AS SMALL AS PRACTICAL/POSSIBLE. NEATLY TO SIZE REQUIRED AND WITH MINIMUM DISTURBANCES OF ADJACENT MATERIALS. 14. WHERE EXISTING IS COVERED, CUT OR OTHERWISE DISTURBED, PATCH TO MATCH THE EXISTING ADJACENT SURFACES. SEAMS TO BE AS INVISIBLE AS PRACTICAL. REPAIRED FINISHES SHALL BE EXTENDED TO THE NEAREST VISUAL BREAK LINES SUCH AS CORNERS, CEILING LINES, TOP OF BASE, ETC. 15. WHERE NEW WORK IS ADJACENT TO EXISTING, PERFORM A SMOOTH AND EVEN TRANSITION. PATCHED WORK TO MATCH EXISTING ADJACENT WORK IN TEXTURE AND APPEARANCE. 16. REMOVE AND REPLACE AREAS, SURFACES OR ITEMS THAT CANNOT BE SATISFACTORILY PATCHED. 17. AS A MINIMUM, THE LEVEL OF WORKMANSHIP SHOULD MATCH THE GENERAL LEVEL OF EXISTING WORKMANSHIP. 18. WHERE REQUIRED, TRIM EXISTING WOOD DOORS AS NECESSARY TO CLEAR FLOORING. SEAL CUT EDGES. 19. UNLESS SHOWN ON THE DRAWINGS OTHERWISE, DO NOT SUPPORT OR SUPPORT ITEMS, EQUIPMENT, HANGERS, ETC. FROM EXISTING STRUCTURAL MEMBERS (BEAMS, TRUSSES, JOIST, ETC.) WITHOUT WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER. 20. DO NOT CUT OR DRILL ANY STRUCTURAL MEMBER (PARTICULARLY ROOF JOIST) WITHOUT WRITTEN APPROVAL OF A LICENSED STRUCTURAL ENGINEER. 21. CHORING OF STRUCTURAL FOUNDATIONS, STRUCTURES, AND/OR TRENCHING REQUIRED TO COMPLETE THE WORK DESCRIBED IN THE DOCUMENTS IS CONSIDERED A MEANS, METHOD OR TECHNIQUE AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF A REGULATORY AGENCY REQUIRES A LICENSED ENGINEER TO SUPERVISE, APPROVE, AND/OR PROVIDE DRAWINGS FOR STRUCTURAL FOUNDATIONS, STRUCTURES, AND/OR TRENCHING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTRACT WITH THE ENGINEER DIRECTLY AND THE COST SHALL BE INCLUDED IN THE BASE BID. 22. ALL SYSTEMS AND SERVICES ARE TO BE LEFT OPERATIONAL PRIOR TO THE END OF EACH WORKDAY. 23. THE CONTRACTOR SHALL REMOVE ALL RUBBLE AND DEBRIS FROM THE JOBSITE DAILY AND LEAVE THE BUILDING AND GROUND BROOM CLEAN UPON COMPLETION OF THE WORK.

OPERATIONAL PHASING NOTES: 1. THE PHASING INDICATED ON THE DRAWING IS THE OWNER'S PREFERRED OPERATIONAL SEQUENCES. THE CONTRACTOR SHALL CONFIRM THE OPERATIONAL PHASING WITH THE OWNER PRIOR TO STARTING CONSTRUCTION. 2. THE PHASING SHOWN IS NOT INTENDED TO REPRESENT OR DICTATE CONSTRUCTION PHASING, MEANS, METHODS OR TECHNIQUES. 3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION PHASING SO AS NOT TO IMPACT THE OWNER'S OPERATIONS. 4. REMOVE WALLS, BOLLARDS, PLUMBING, ELECTRICAL, ETC. AND CAP UTILITIES BELOW THE FLOOR AS REQUIRED TO ACHIEVE THE OPERATIONAL PHASING. 5. PROVIDE TEMPORARY UTILITIES AS REQUIRED DURING PHASING. 6. WHEN THE WORK INCLUDES DEMOLITION OF OR TEMPORARILY COVERING OF THE EXISTING EXTERIOR SIGNAGE, THE CONTRACTOR SHALL PROVIDE A TEMPORARY 'COSTCO WHOLESALE' SIGNAGE (OF SIZE COMPARABLE TO EXISTING SIGN) UNTIL PERMANENT SIGN IS INSTALLED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. PROVIDE ILLUMINATION FOR THE TEMPORARY SIGN. CONFIRM LOCATIONS WITH THE OWNER.



EXISTING FLOOR PLAN SCALE: NOT TO SCALE



EXISTING SITE PLAN SCALE: NOT TO SCALE





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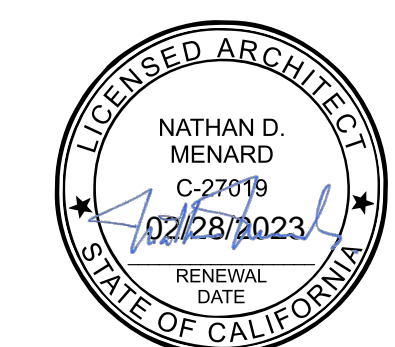
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CAL GREEN

G203

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)



Main body of the document containing various sections: CHAPTER 3 GREEN BUILDING, SECTION 301.1 SCOPE, SECTION 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS, SECTION 302 MIXED OCCUPANCY BUILDINGS, SECTION 303 PHASED PROJECTS, ABBREVIATION DEFINITIONS, CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES, SECTION 5.101 PLANNING AND DESIGN, SECTION 5.102 DEFINITIONS, SECTION 5.106 SITE DEVELOPMENT, SECTION 5.106.12 SHADE TREES, SECTION 5.106.12.1 SURFACE PARKING AREAS, SECTION 5.106.12.2 LANDSCAPE AREAS, DIVISION 5.2 ENERGY EFFICIENCY, SECTION 5.201 GENERAL, DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION, SECTION 5.301 GENERAL, SECTION 5.302 DEFINITIONS, SECTION 5.303 INDOOR WATER USE. Includes multiple tables for parking spaces, lighting, and water closets.

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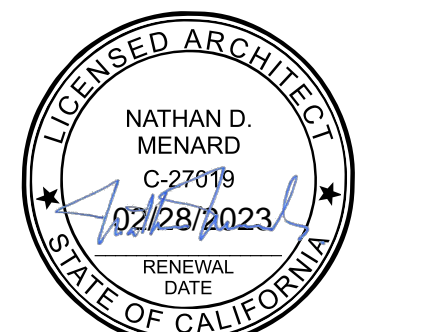
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CAL GREEN

G204



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2020, Includes August 2019 Supplement)

Main table with 4 columns: Y, N/A, RESPON, PARTY. Contains detailed building code sections 5.303.3.4 through 5.410.4.3.1, including sections on faucets, water resistance, moisture control, construction waste, and building maintenance.

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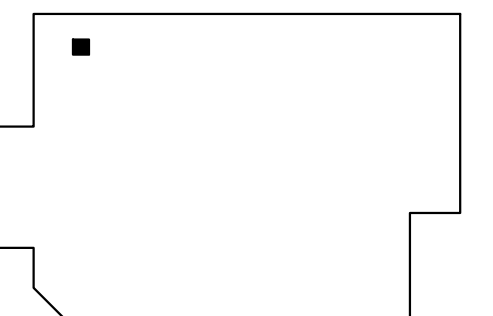
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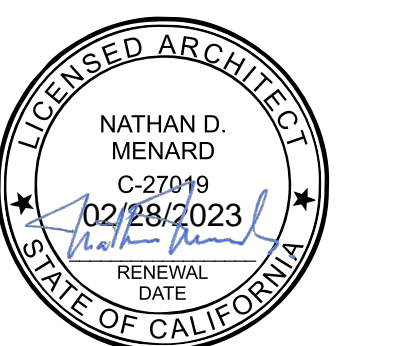


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CAL GREEN

G205

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2020, Includes August 2019 Supplement)



Table with 2 columns: Y, N/A, RESPON. PARTY. Contains checkboxes for compliance status.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.
5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

Table 5.504.4.1 - ADHESIVE VOC LIMIT. Lists various adhesive types and their current VOC limits in grams per liter.

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 116B.

Table 5.504.4.2 - SEALANT VOC LIMIT. Lists various sealant types and their current VOC limits in grams per liter.

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 116B.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PVMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances.

Table 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS. Lists various coating categories and their current VOC limits.

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:
1. Carpet and Rug Institute's Green Label Plus Program.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.
5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- 1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European EN 338 SS standards.
5. Other methods acceptable to the enforcing agency.

Table with 2 columns: Y, N/A, RESPON. PARTY. Contains checkboxes for compliance status.

Table 5.504.4.5 - FORMALDEHYDE LIMITS. Lists various material types and their current formaldehyde limits in parts per million.

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1533. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:
1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or
4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations, or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL
5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY
5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT
5.507.4 ACUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1532, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [PSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

- 1. Within the 65 CNEL noise contour of an airport.
Exceptions:
1. Lw or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICLUZ) plan.
2. Lw or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
2. Within the 65 CNEL or Lw noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB Lw, +1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1h) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.tootbase.org/PDF/CaseStudiesList\_loc\_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY
5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO2), and potentially other refrigerants.

Table with 2 columns: Y, N/A, RESPON. PARTY. Contains checkboxes for compliance status.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves and fittings shall comply with the California Mechanical Code and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for 24 hours using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS
702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program.

Unidentified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- 1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN CODE). DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

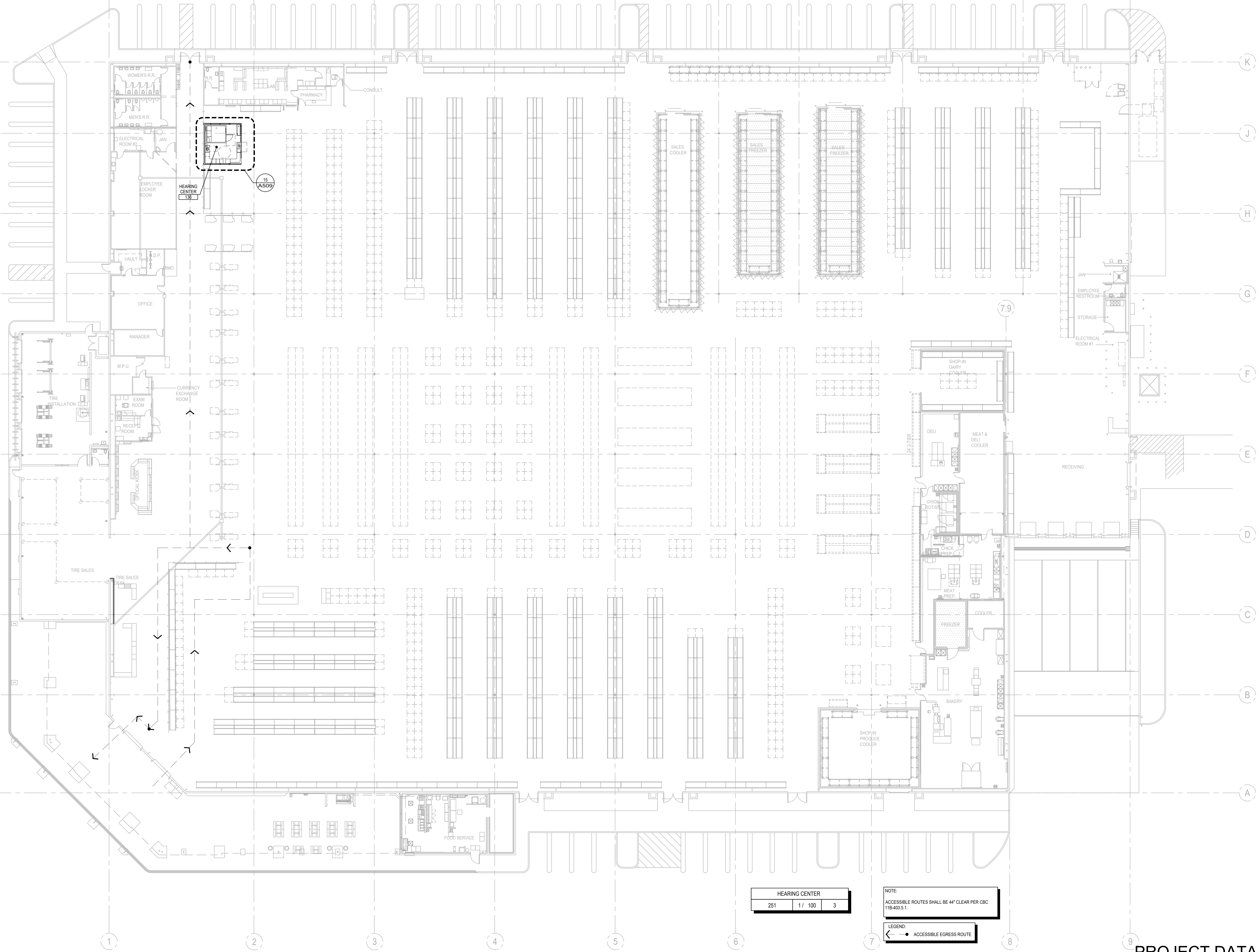
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**COSTCO WHOLESALE**  
 CHULA VISTA, CA #781  
 1130 BROADWAY AVE., CHULA VISTA, CA 91911

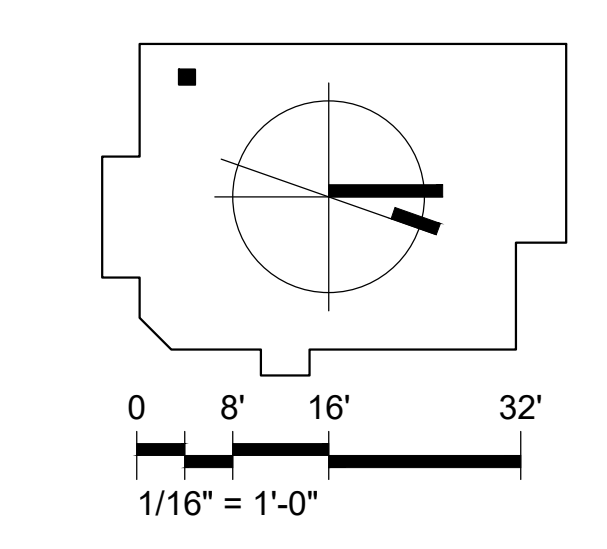
**COSTCO WHOLESALE CORPORATION**  
 999 LAKE DRIVE  
 ISSAQUAH, WA 98027  
 T: 425.313.8100  
 www.costco.com

1101 Second Ave, Ste 100  
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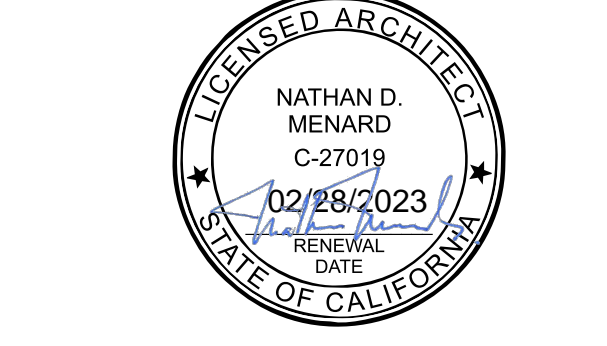
**MG2**  
 PERMIT SET



**KEY PLAN**



NATHAN D. MENARD, ARCHITECT



11/15/2022

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DATE	DESCRIPTION
08/01/22	PERMIT ISSUE
1 09/30/22	PLAN CHECK COMMENT #1

99-5890-20  
 PM: ARTURO REINA  
 DRAWN: JL

**OVERALL FLOOR PLAN**  
**A101**

**OVERALL FLOOR PLAN**  
 SCALE: 1/16" = 1'-0"

HEARING CENTER		
251	1/	100 3

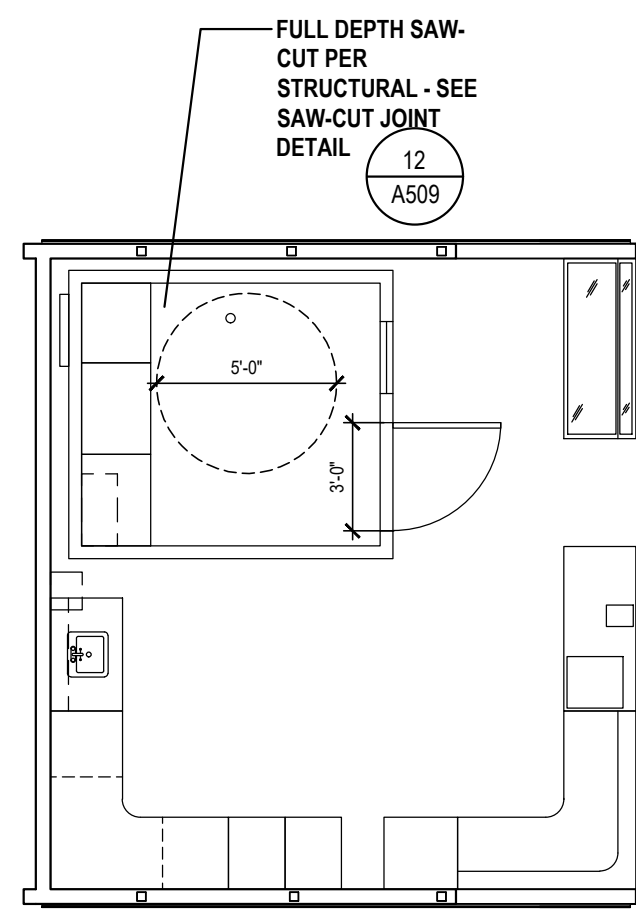
NOTE:  
 ACCESSIBLE ROUTES SHALL BE 4" CLEAR PER CBC 11B-403.1.1.

LEGEND:  
 ← → ACCESSIBLE EGRESS ROUTE

**PROJECT DATA**

EXIST. BUILDING DATA:	
BUILDING AREA	143,463 S.F.
TIRE CENTER	5,200 S.F.
FOOD SERVICE	1,113 S.F.
TOTAL BUILDING	149,776 S.F. (NO CHANGE)

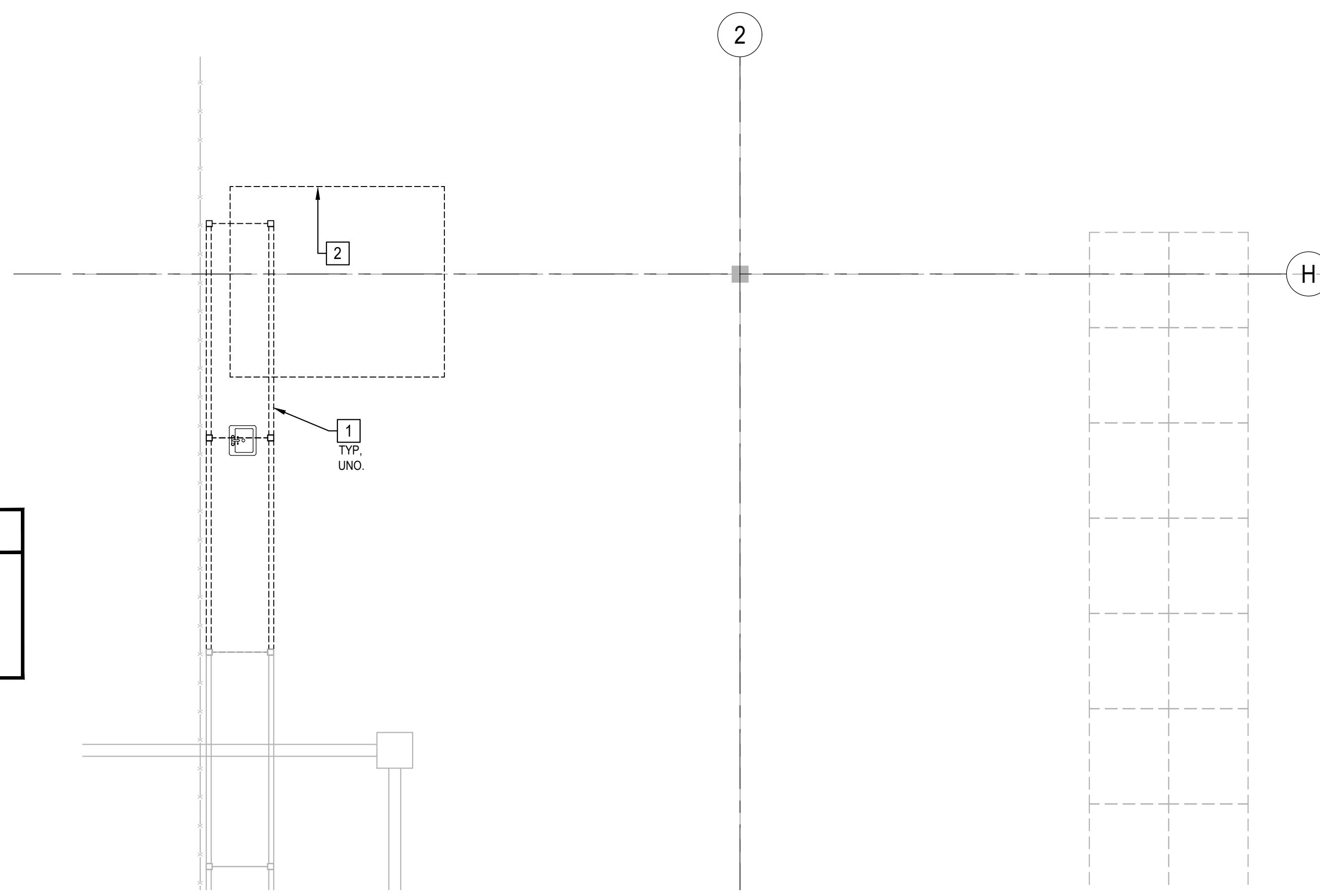
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**KEYPLAN SAW-CUT JOINT LAYOUT**

SCALE: 3/16" = 1'-0" 0322

DEMOLITION KEY NOTES	
1	REMOVE EXISTING RACKS, PALLETS, EXTERIOR DOOR AND FENCE.
2	G.C. TO SAW-CUT JOINT PER STRUCTURAL.
3	G.C. TO REMOVE EXISTING HEARING BOOTHS, WALL, SINK, HATCH, AND ADJACENT WORK STATION. PATCH AND REPAIR AS NEEDED.



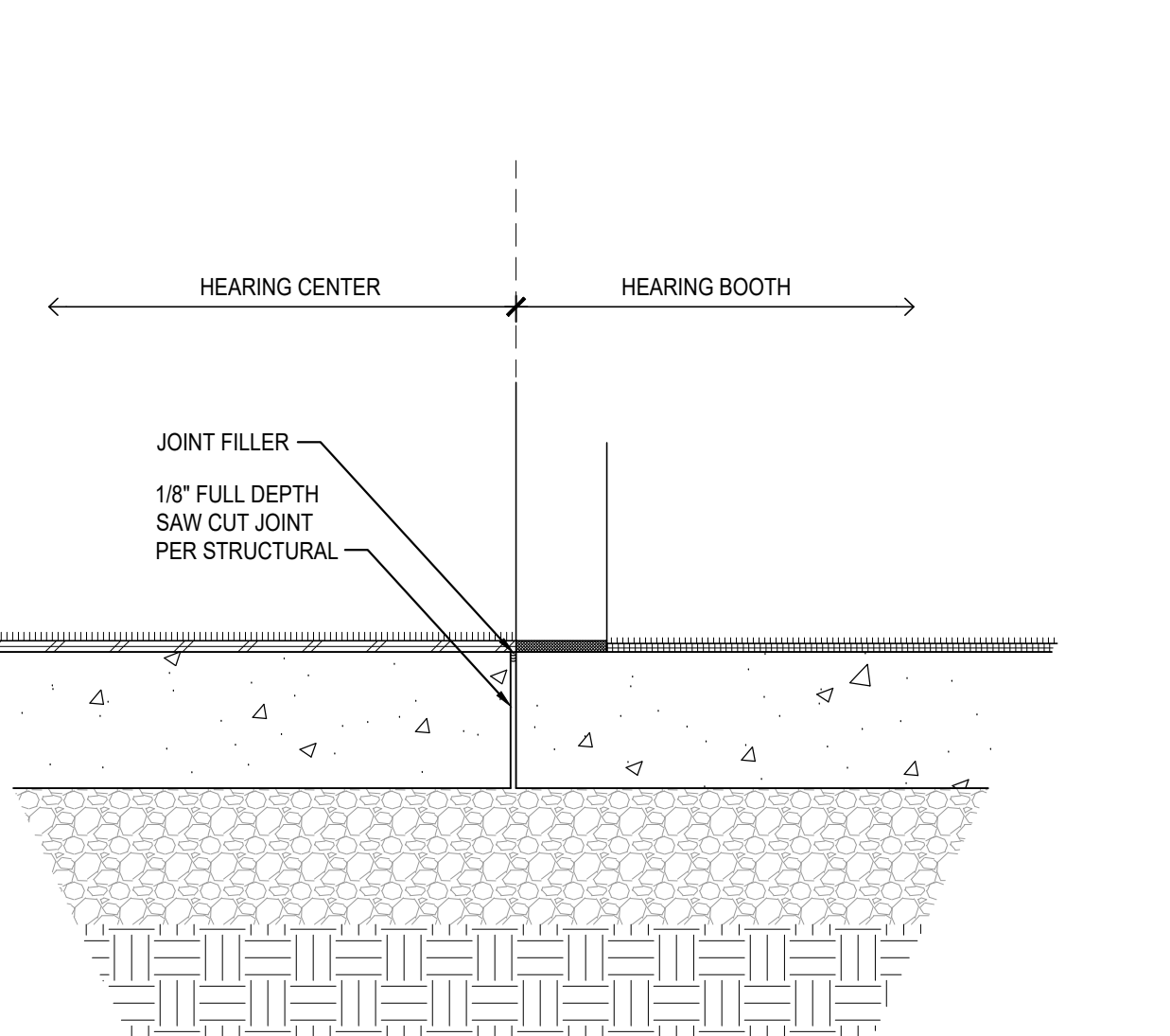
**8 ENLARGED DEMO PLAN**

SCALE: 1/4" = 1'-0"

HEARING CENTER EQUIPMENT LIST			
EQ NO	QTY	DESCRIPTION	SUPPLY/INSTALL
1	1	CASEWORK SET	SOIC
2	3	SOUND BOOTH W/ CASEWORK	SOIC
011	1	PAPER TOWEL DISPENSER	SOIC

HEARING CENTER CASEWORK LEGEND (SOIC)			
CASE	QTY	DESCRIPTION	REMARKS
1A	1	DISPLAY CASE	
1C	1	ADMIN DESK	MUST BE ATTACHED TO F
1D	1	BUFF AND GRIND WORKSTATION	
1E	1	12 DRAWER FILE	
1F	1	PRINTER CABINET	MUST BE ATTACHED TO C
1G	1	STORAGE CABINET	
1H	1	SINK HUTCH UNIT	
1I	3	BOOTH LOWER	3 PIECES
1J	3	BOOTH UPPER	ALIGN WITH BOOTH DOOR
1M	1	REGISTER WITH ACCES. SALES COUNTER	

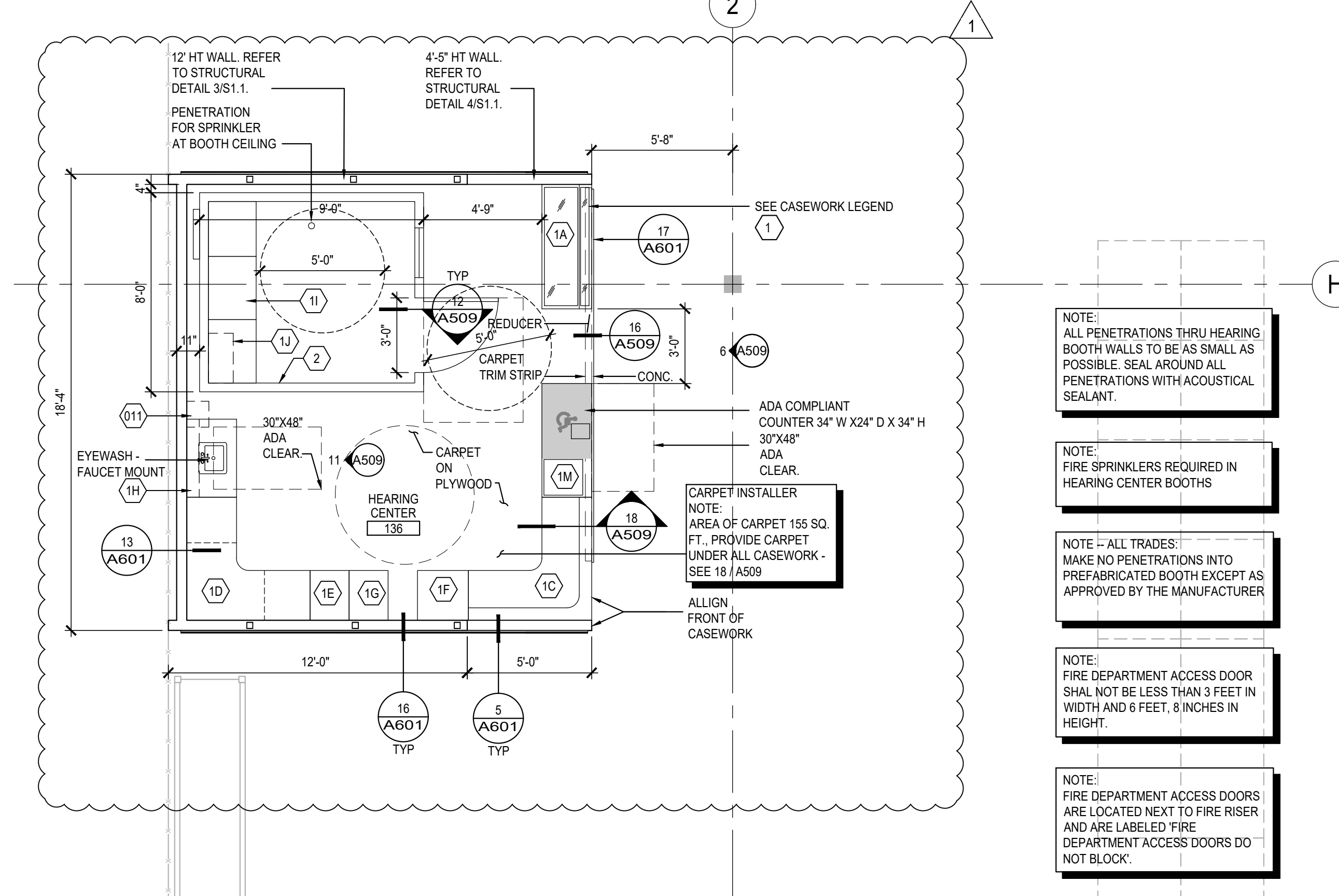


**11 ELEVATION AT ACCESSIBLE SINK (SOIC)**

SCALE: 1" = 1'-0" 0421

**12 SAW-CUT JOINT AT HEARING BOOTH**

SCALE: 1-1/2" = 1'-0" 1119

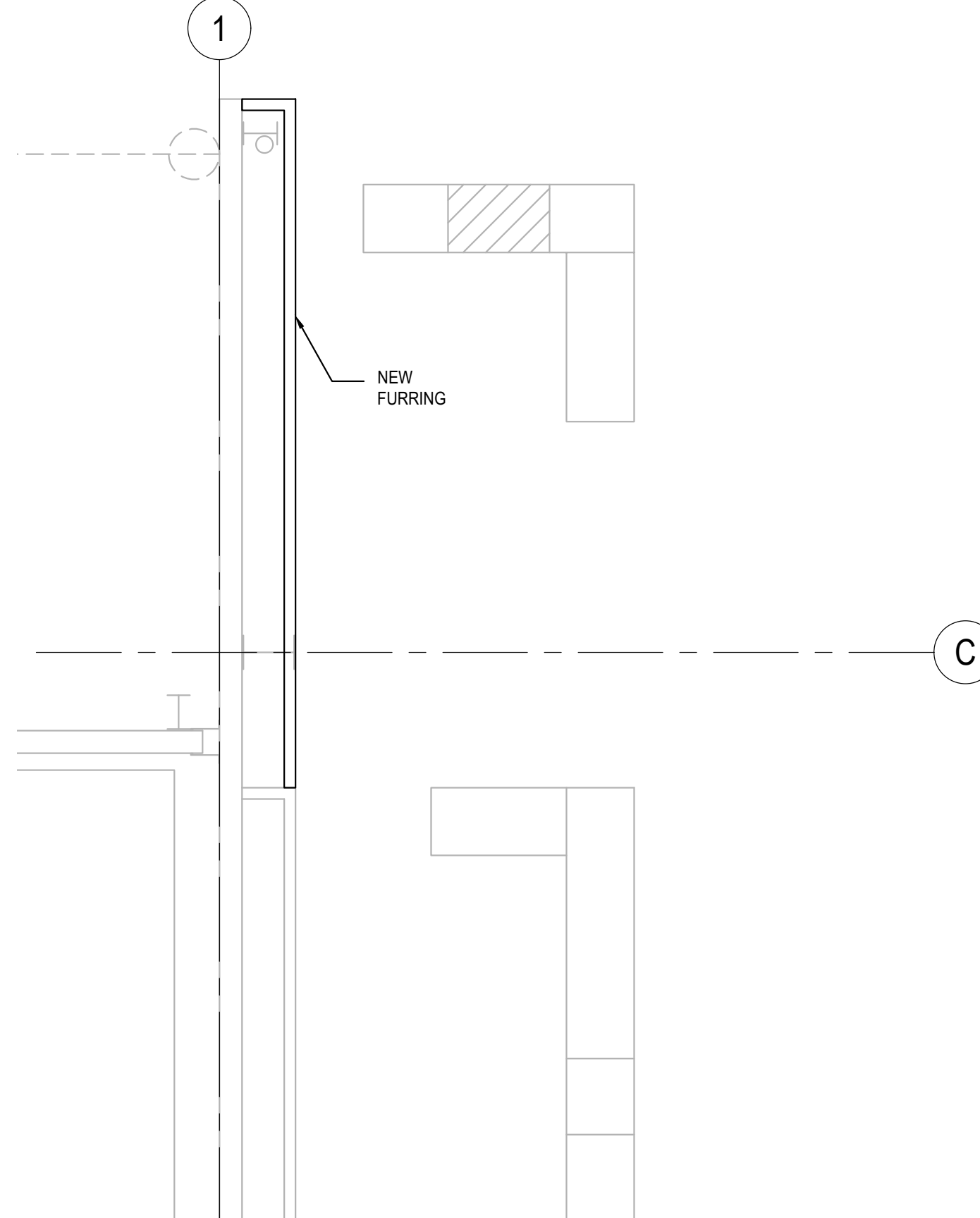


**13 HAC ENLARGED CONCEPT PLAN**

SCALE: 1/4" = 1'-0"

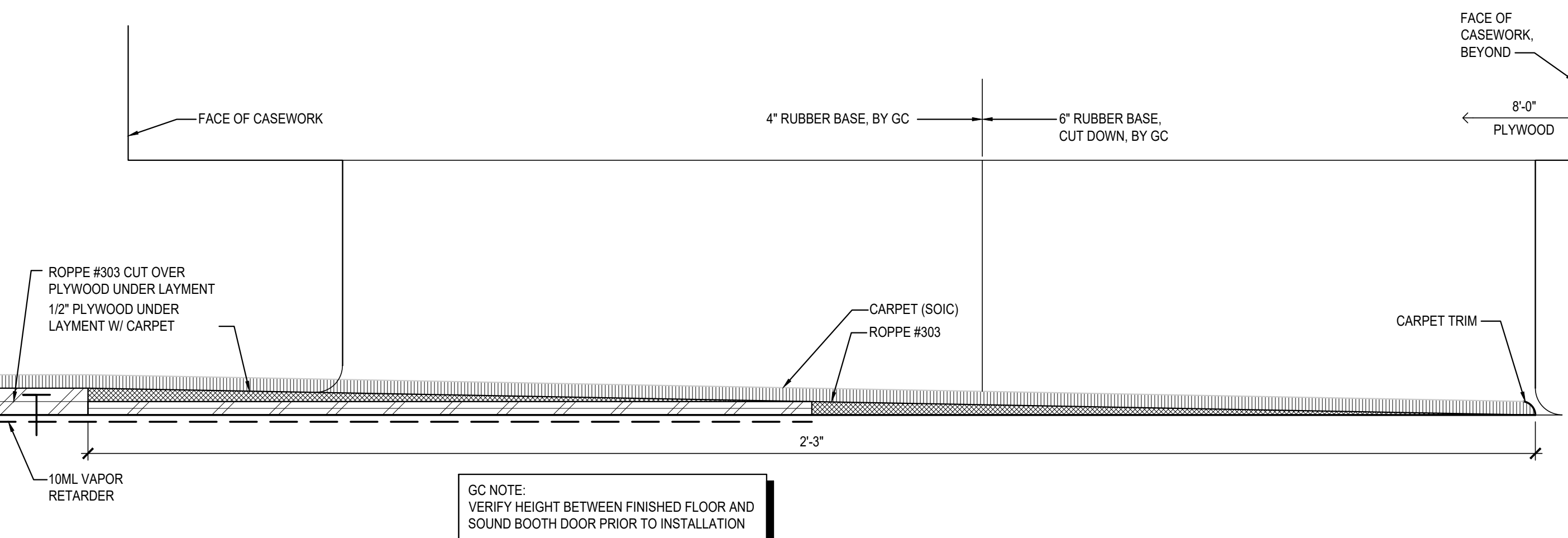
**10 HAC ENLARGED DEMO PLAN**

SCALE: 1/4" = 1'-0"



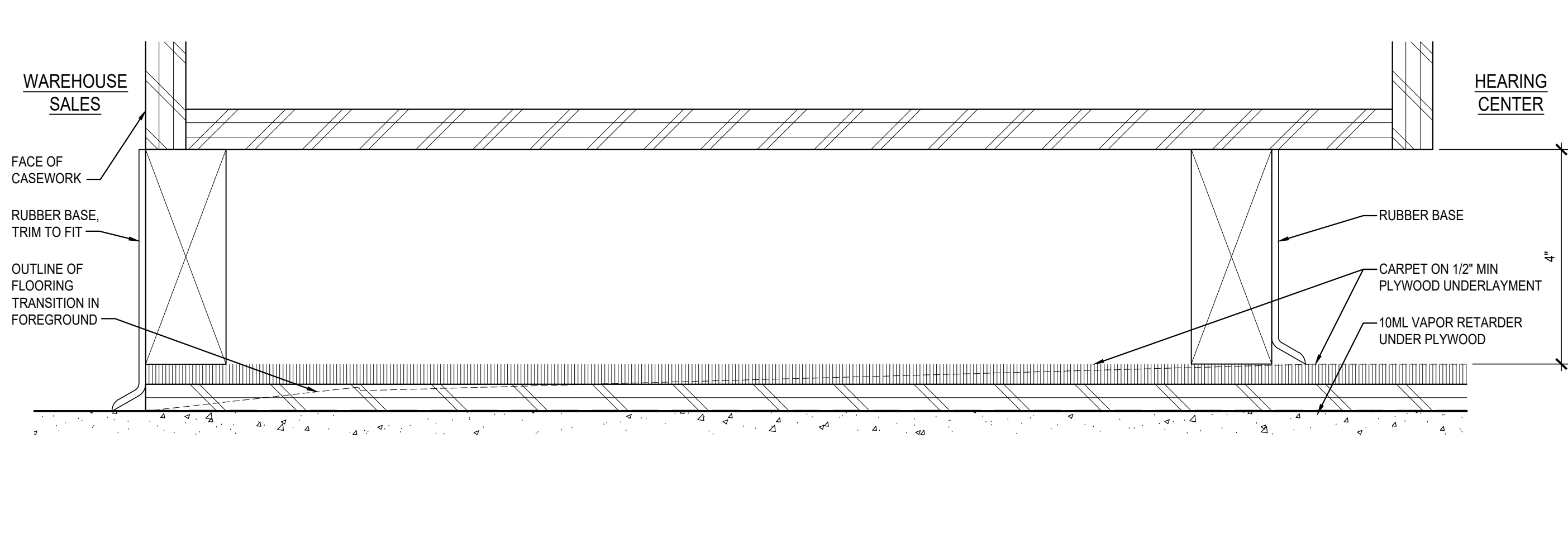
**14 TIRE SALES ENLARGED CONCEPT PLAN**

SCALE: 1/4" = 1'-0"



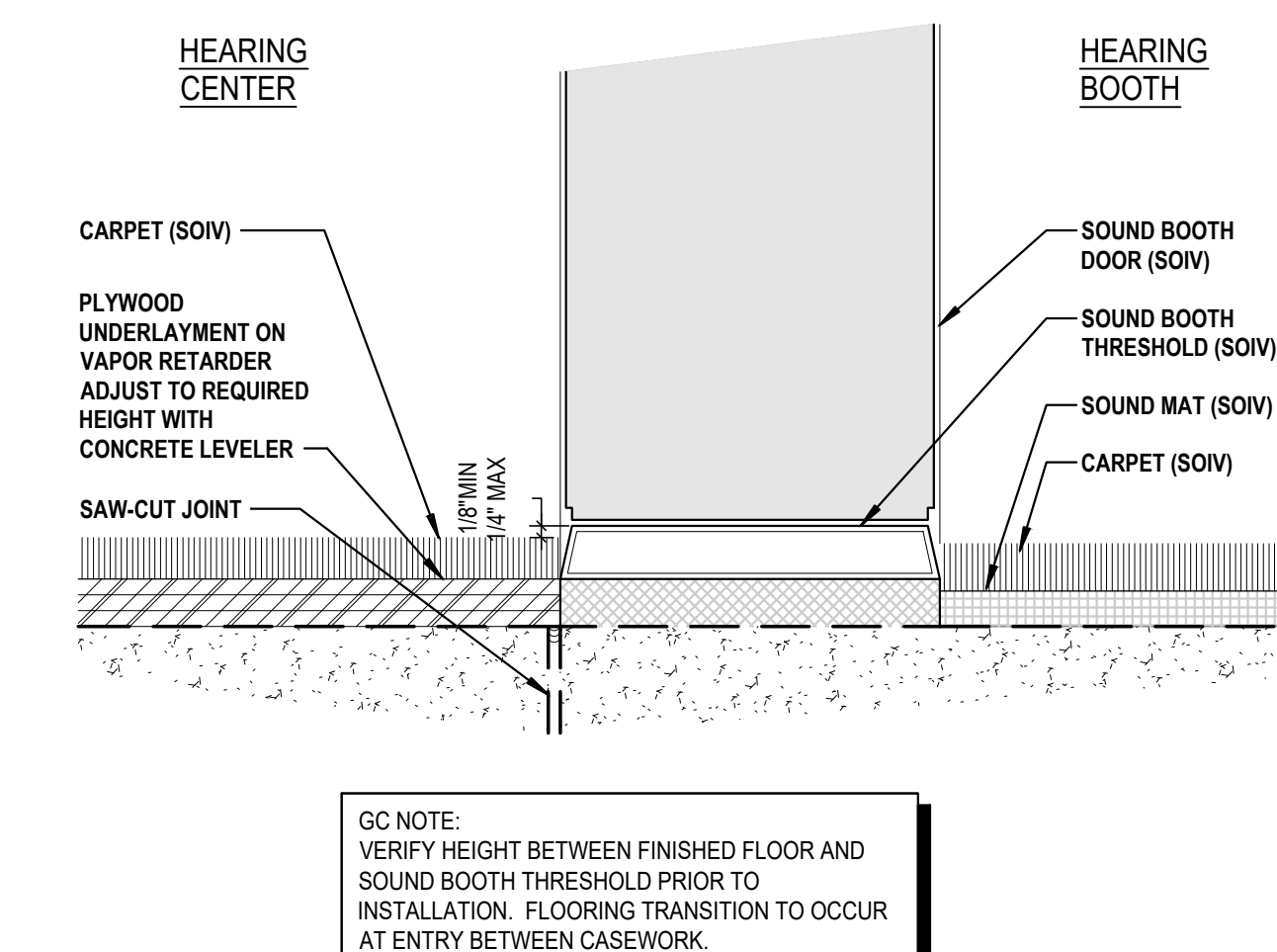
**16 CARPET TRANSITION**

SCALE: 6" = 1'-0" 0416



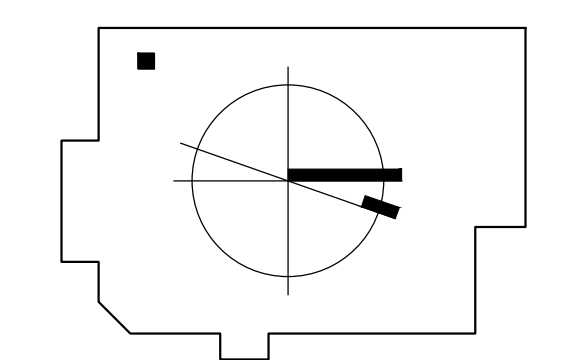
**18 CASEWORK SECTION AT BASE**

SCALE: 6" = 1'-0" 0220



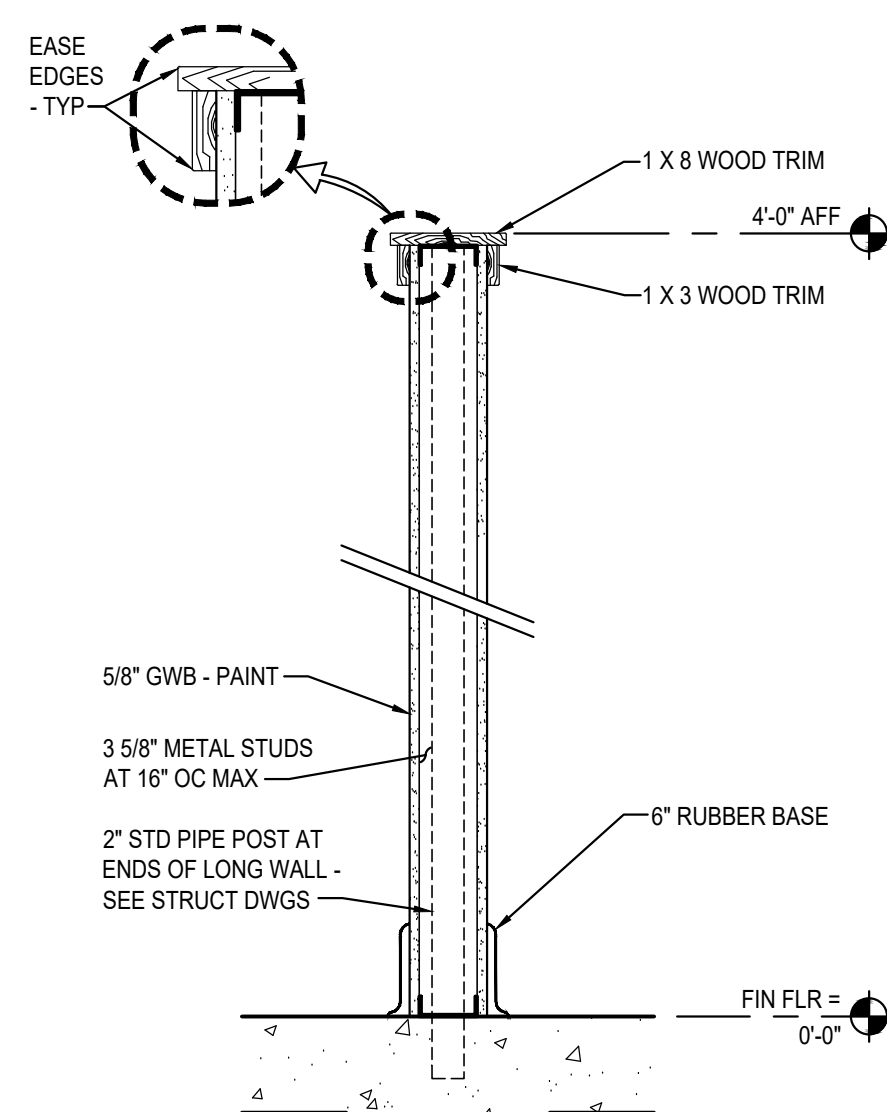
**20 THRESHOLD AT HEARING BOOTH**

SCALE: 6" = 1'-0" 0322



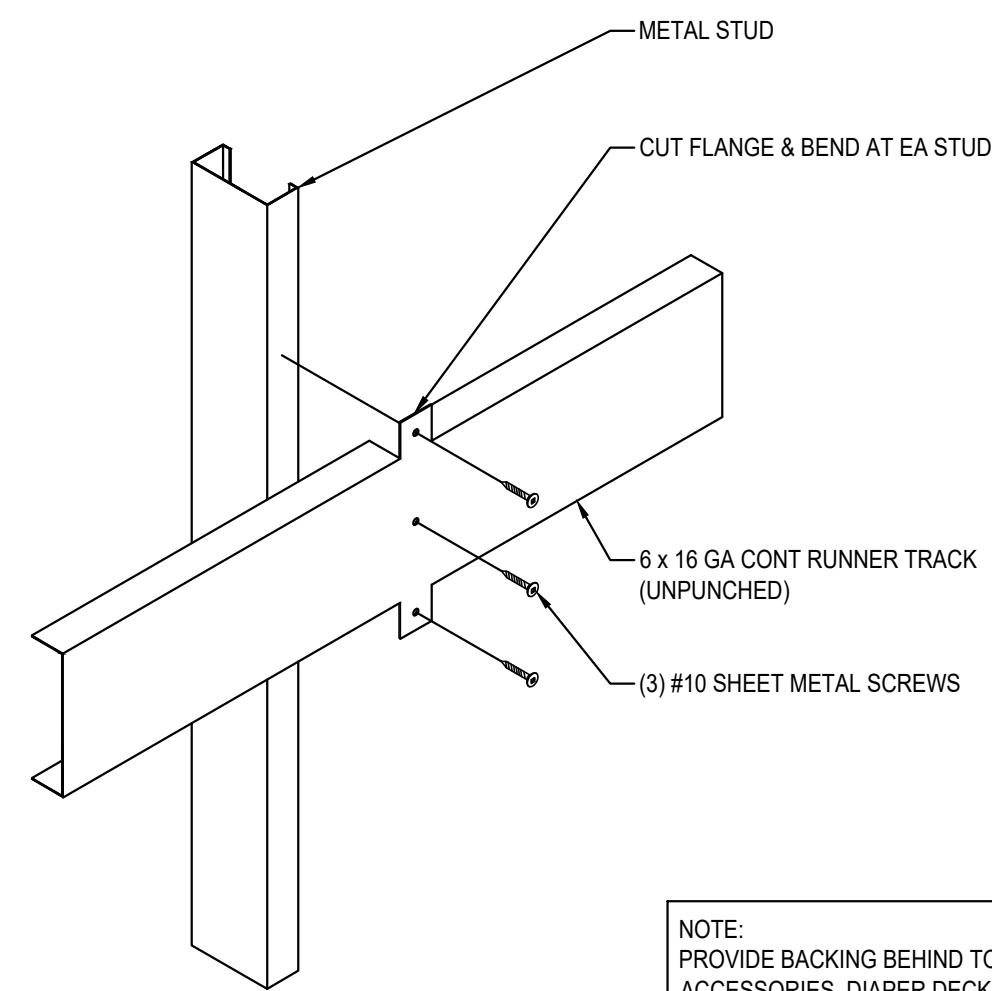
DATE	DESCRIPTION
08/01/22	PERMIT ISSUE
1 09/30/22	PLAN CHECK COMMENT #1

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**5 4' HEIGHT SIDE WALL**

SCALE: 1" = 1'-0"



NOTE:  
 PROVIDE BACKING BEHIND TOILET  
 ACCESSORIES, DIAPER DECK, GRAB  
 BARS, HANDRAIL BRACKETS, URINAL  
 SCREENS, PAPER TOWEL DISPENSERS,  
 SHELVING AND WALL MOUNTED  
 EQUIPMENT, ETC WHERE SHOWN

**6 BACKING**

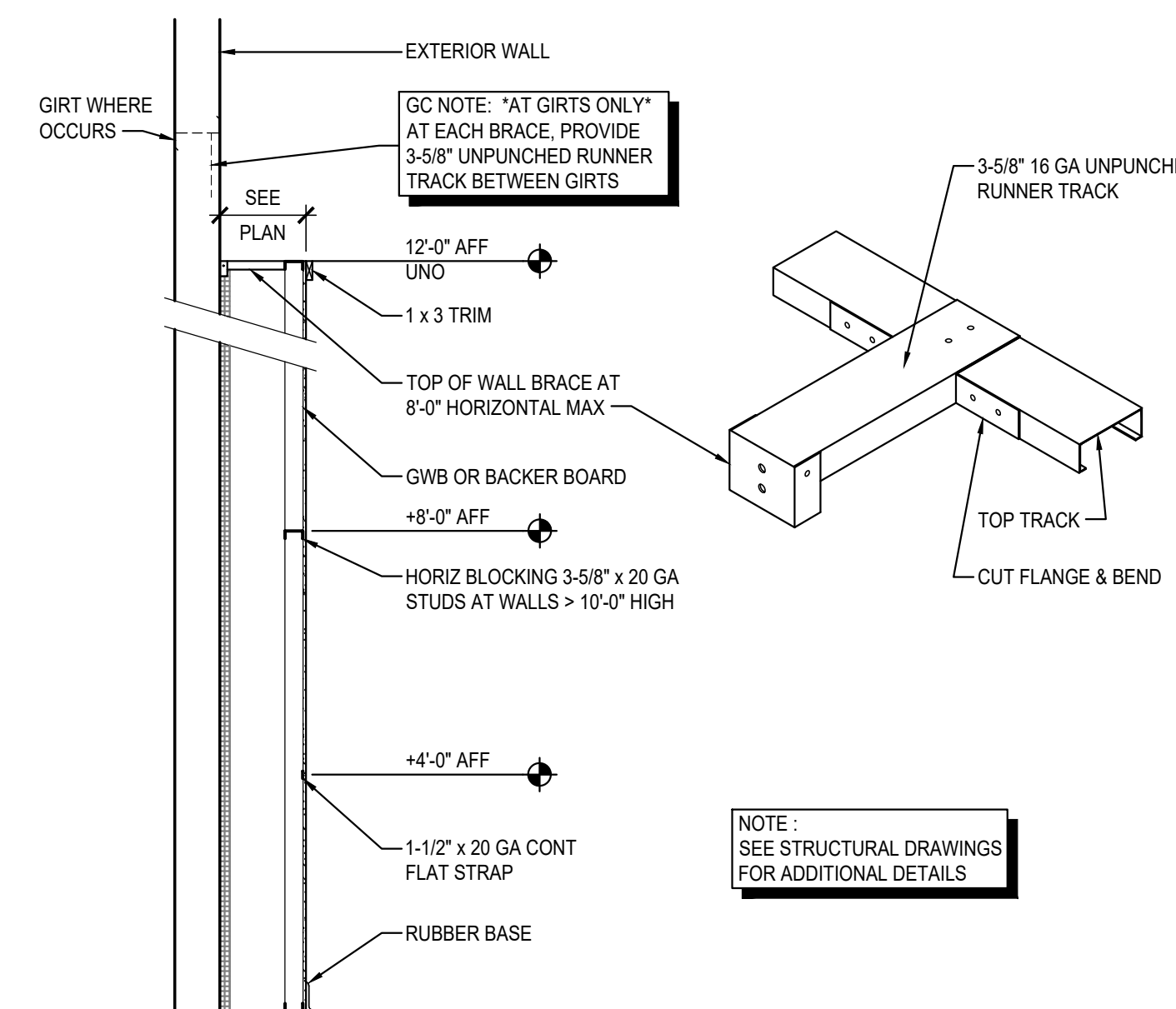
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1012

ROOM FINISH SCHEDULE												
LOCATION	NO	ROOM NAME	FLOOR		BASE		WALL		CEILING			REMARKS (SEE NOTES BELOW)
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HT	
HEARING	136	HEARING CENTER	C		RB-4		GWB	P	OTS			2, 3

ROOM FINISH ABBREVIATION KEY	
C	CARPET TILE (SOIC)
GWB	GYPSUM WALL BOARD
OTS	OPEN TO STRUCTURE
P	PAINT - EGGSHELL FINISH
RB-4	RUBBER BASE - 4" HIGH
CONC	CONCRETE

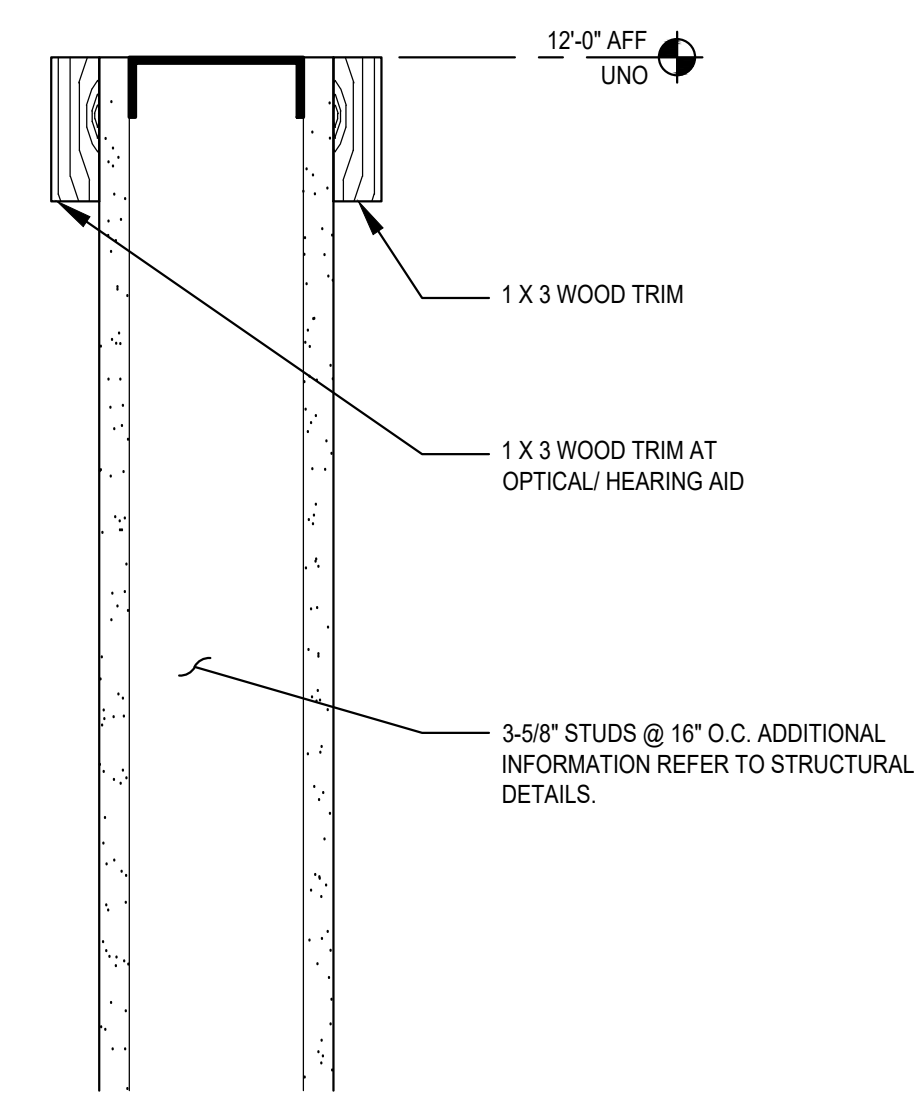
ROOM FINISH REMARKS	
2.	GWB ON STUD WALLS - PAINTED
3.	PROVIDE BASE ON CASEWORK
14.	CHAIN LINK FENCE / GATE (SIO)



**13 FURRING AT EXTERIOR WALL**

SCALE: NOT TO SCALE

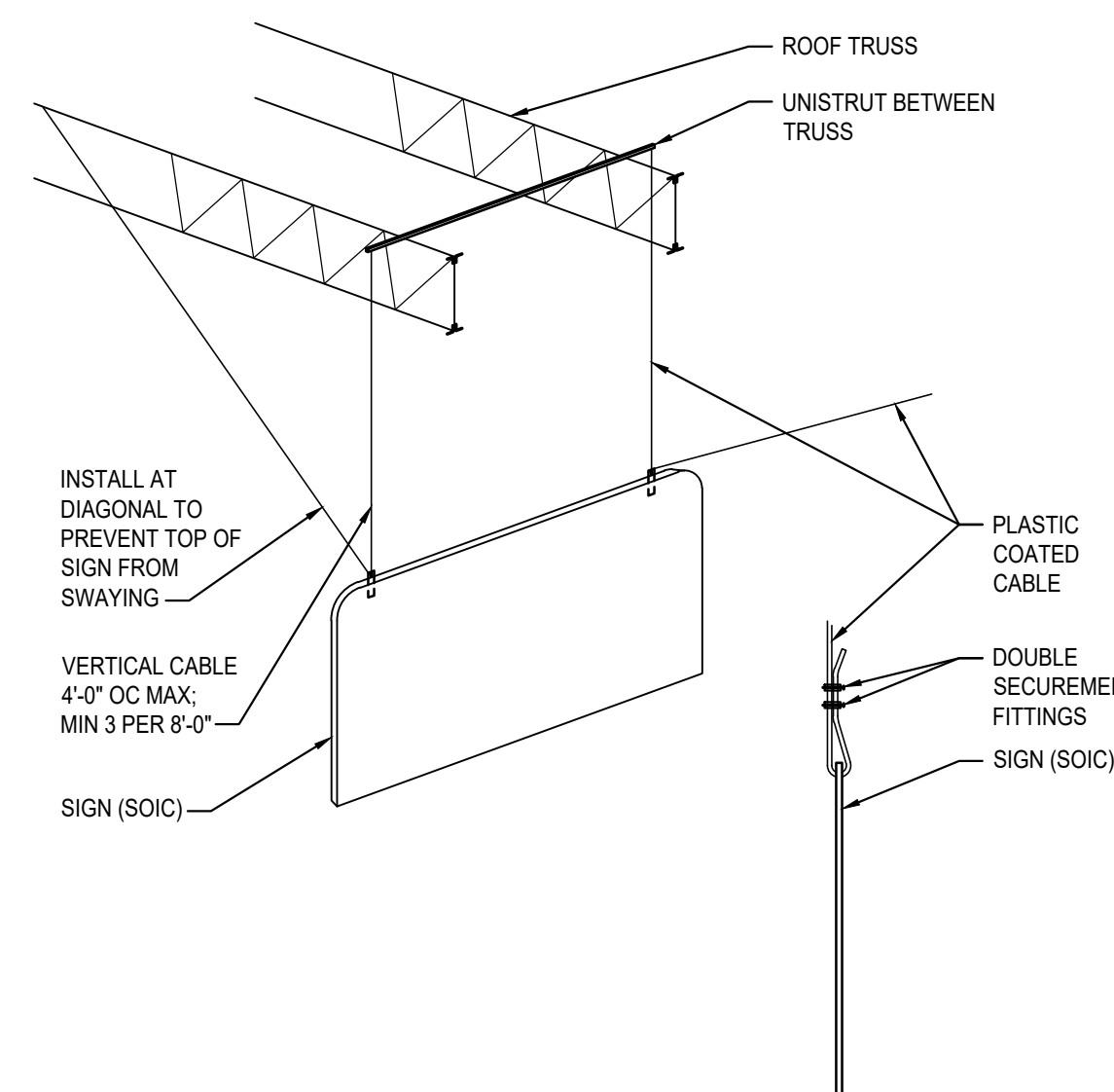
1218



**16 TOP OF WALLS**

SCALE: 3" = 1'-0"

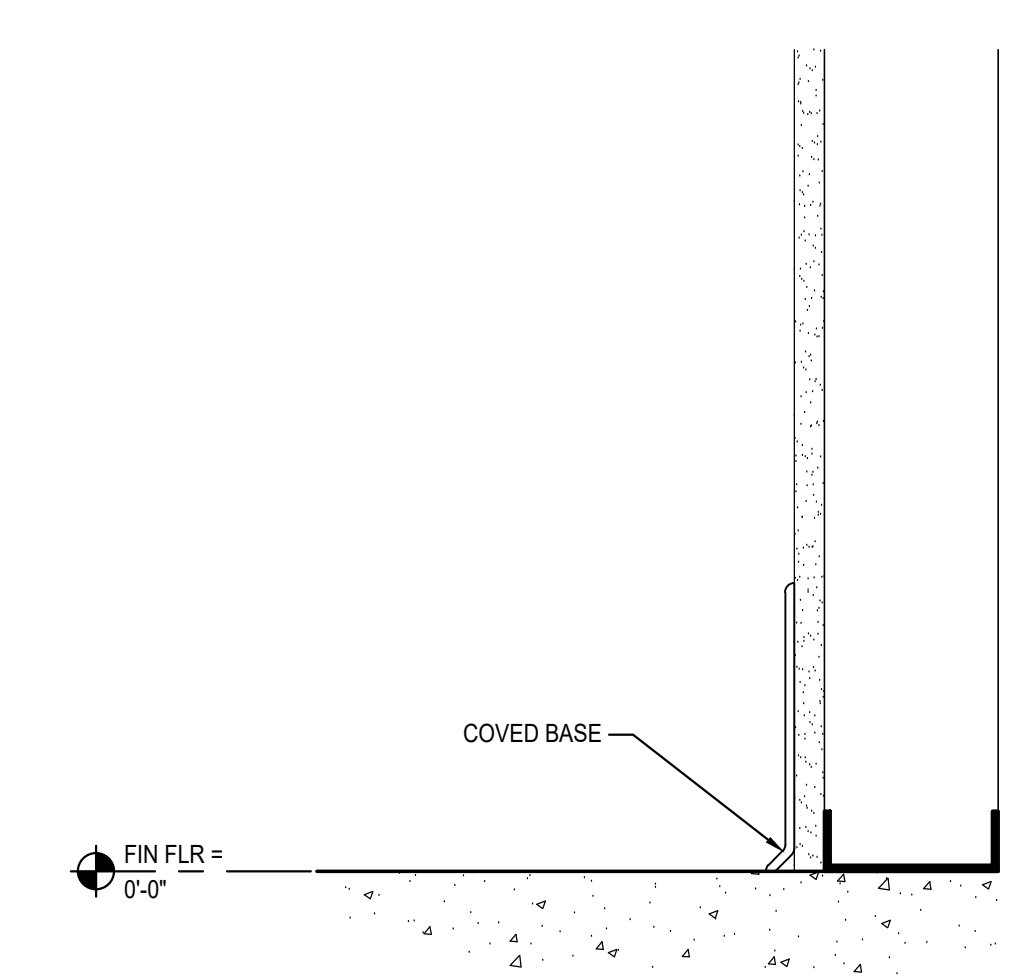
1018



**17 ONE-FACED SUSPENDED SIGN**

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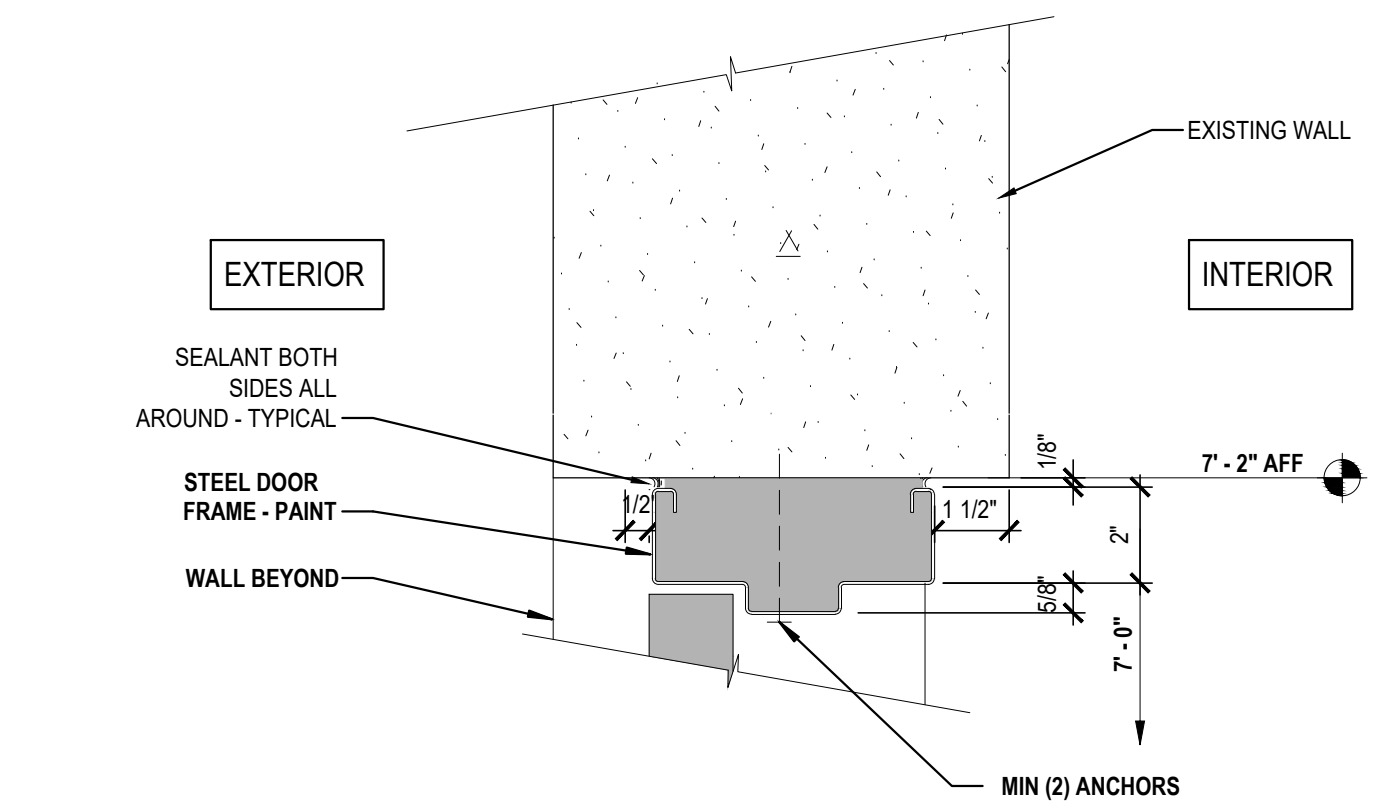
0914



**18 TYPICAL RUBBER BASE**

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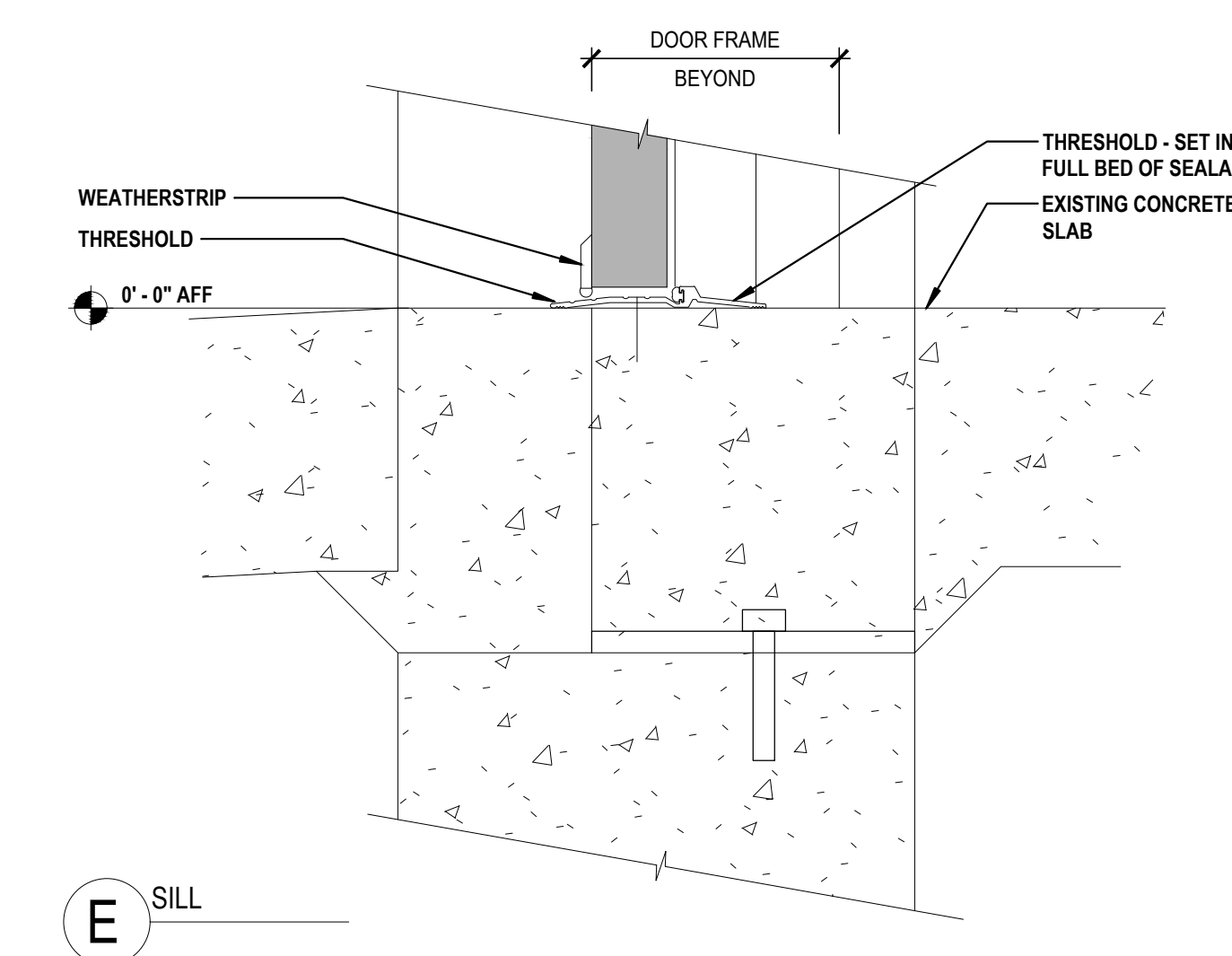
0212



**KEY PLAN**

NATHAN D. MENARD, ARCHITECT

A HEAD



E SILL

**20 EXTERIOR DOOR SIM**

SCALE: 3" = 1'-0"

0714

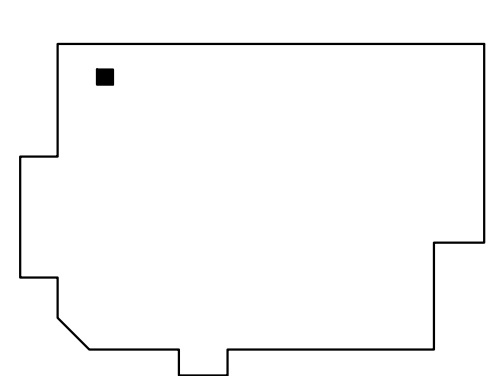


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**PERMIT SET**



11/15/2022

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DATE	DESCRIPTION
08/01/22	PERMIT ISSUE
1 09/30/22	PLAN CHECK COMMENT #1

99-5890-20  
 PM: ARTURO REINA  
 DRAWN: MH

**ROOM FINISH  
 SCHEDULE AND  
 TYPICAL INTERIOR  
 DETAILS**

**A601**



GENERAL NOTE  
REMODEL

THE FOLLOWING NOTES APPLY UNLESS NOTED OTHERWISE - ASTM'S NOTED ARE TO BE LATEST EDITION.

1. DESCRIPTION  
BUILDING NAME & SITE LOCATION - COSTCO WHOLESALE - CHULA VISTA, CA

2. DESIGN CODE AND STANDARDS  
APPLICABLE CODE (EDITION/NAME) - 2019 CALIFORNIA BUILDING CODE (CBC)  
OTHER DOCUMENTS REFERENCED BY THESE NOTES SHALL BE THE SPECIFIC EDITION REFERENCED BY THE BUILDING CODE SPECIFIED ABOVE, OR IF NOT SPECIFIED, SHALL BE THE LATEST EDITION.

3. DESIGN LOADS  
a. SEISMIC RISK CATEGORY II  
S<sub>s</sub> = 1.127, S<sub>1</sub> = 0.380, IE = 1.0, SITE CLASS "D" AND S<sub>0</sub> = 0.788, S<sub>2</sub> = 0.487.  
SEISMIC DESIGN CATEGORY = "D"  
b. LOAD COMBINATIONS ALL CODE REQUIRED LOAD COMBINATIONS ARE TO BE USED IN THE BUILDING DESIGN.

**OSHA STANDARDS**  
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROVISIONS OF THE CURRENT OSHA STANDARDS. THE GENERAL CONTRACTOR SHALL REVIEW THESE STRUCTURAL DRAWINGS FOR ANY NONCOMPLIANCE WITH OSHA STANDARDS, TAKING INTO ACCOUNT THE GENERAL CONTRACTOR'S MEANS AND METHODS. THE GENERAL CONTRACTOR SHALL INFORM ENW OF ANY NONCOMPLIANCE SO THE DRAWINGS MAY BE MODIFIED FOR COMPLIANCE PRIOR TO CONSTRUCTION. THE GENERAL CONTRACTOR IS TOTALLY RESPONSIBLE FOR MEANS AND METHODS AS WELL AS JOBSITE SAFETY ON THIS PROJECT.

**STRUCTURAL STEEL AND MISCELLANEOUS STEEL**  
ALL WORK IN ACCORDANCE WITH "AISC" SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, AND THE "CODE OF STANDARD PRACTICE". STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:  
WIDE FLANGE SHAPES ASTM A-992 (FY=50,000 PSI)  
OTHER SHAPES AND PLATES ASTM A-36 (FY=36,000 PSI)  
TUBE COLUMNS ASTM A-500, GRADE B (FY=46,000 PSI)  
WELDHEAD STUDS ASTM A-108 (FY=55,000 PSI)  
ALL-THREAD ASTM F1554, GRADE 36 (FY=36,000 PSI)  
MACHINE BOLTS ASTM A-307  
HIGH STRENGTH BOLTS ASTM A-325N (U.N.O.)  
ALL STRUCTURAL STEEL BOLTED CONNECTIONS AT MECHANICAL PLATFORMS ARE ASTM A-325 TYPE "N" CONNECTIONS - BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE. CONNECTIONS ARE NON-SLIP CRITICAL AND BOLTS NEED TO BE TIGHTENED "SNUG TIGHT" ONLY EXCEPT AT FRAMES. PROVIDE WASHERS AT OUTER PLYS WITH SLOTTED HOLES. INSTALL A-325 BOLTS IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS" (122109). PROVIDE MINIMUM EMBEDMENT FOR ANCHOR BOLTS AS NOTED ON DRAWINGS. ALL WELDING TO CONFORM WITH AWS D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION". WELDS NOT SPECIFIED SHALL BE 1/4" CONTINUOUS FILLET MINIMUM. ALL WELDS BY CERTIFIED WELDERS. USE FRESH TOX ELECTRODES FOR MANUAL SHIELDED METAL-ARC WELDING OR EQUAL ELECTRODES. WELDHEAD STUDS (WHS) ARE TO BE MACHINE WELDED WITH PROPER EQUIPMENT. SEE SPECIFICATIONS FOR ITEMS TO BE GALVANIZED.

**CONCRETE AND MASONRY ANCHORS (BOLTS, THREADED RODS AND REBAR DOWELS)**  
DRILLED IN EXPANSION ANCHORS:  
CONCRETE HILTI KWIK BOLT TZ PER ESR-1917  
CMU HILTI KWIK BOLT 3 PER ESR-1385  
ADHESIVE ANCHORS:  
CONCRETE HILTI HIT-RE 500 V3 PER ESR-3814 AND HILTI HIT-HY 200-R PER ESR-3187  
CMU HILTI HIT-HY 270 PER ESR-4143  
UNREINFORCED MASONRY HILTI HIT-HY 270 PER ESR-4144  
CAST IN PLACE ANCHORS:  
CONCRETE EMBED PER PLANS AND SECTIONS  
CMU EMBED PER PLANS AND SECTIONS  
SCREW ANCHORS:  
CONCRETE HILTI KWIK HUS-EZ (KH-EZ) AND HUS-EZ (KH-EZ II) PER ESR-3027  
CMU HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3026

ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF INSTALLATION PER ACI 308.1 - 18 SECTION 17.1.2 INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INFLUENCED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY CERTIFIED PERSONNEL IN CONFORMANCE TO ACI 318 - 14 SECTION 17.8.2.2.

FOLLOW INSTALLATION PROCEDURES OF ESR REPORT AND MANUFACTURER'S INSTRUCTIONS. PROVIDE SPECIAL INSPECTION AS NOTED AND/OR REQUIRED BY ESR REPORT. SUBSTITUTIONS ARE NOT ALLOWED UNLESS WRITTEN APPROVAL BY ENW IS RECEIVED. SUBSTITUTIONS MUST BE SUBMITTED TO ENW FOR REVIEW PRIOR TO CONSTRUCTION. PROVIDE STAINLESS STEEL OR GALVANIZED ANCHORS FOR EXTERIOR APPLICATIONS AS REQUIRED. ANCHORS RATED FOR DRY INTERIOR CONDITIONS MAY NOT BE USED FOR EXTERIOR APPLICATIONS PER ESR REPORT.

**LIGHT GAGE STEEL FRAMING AND DECKING (SEE DRAWINGS)**

**SPECIAL INSPECTIONS**  
INSPECTIONS ARE TO BE PER THE CODE INDICATED ABOVE AND ARE TO BE BY AN INDEPENDENT TESTING LAB APPROVED PRIOR TO STARTING CONSTRUCTION BY THE BUILDING DEPT. AND THE ARCHITECT. INSPECT ALL SHOP WELDING UNLESS THE SHOP IS CERTIFIED BY THE LOCAL BUILDING DEPARTMENT.

CONC. EXPANSION & MASONRY ANCHORS & DRILLED-IN DOWELS: COPY OF ICC REPORT FOR ANCHORS OR ADHESIVE SYSTEM USED MUST BE AVAILABLE AT JOB SITE. VERIFY ANCHORS OR ADHESIVE SYSTEM INSTALLATION IN ACCORDANCE WITH REPORT.

STEEL: IN ACCORDANCE WITH TABLE ON S0.3 AND REFERENCED STANDARDS

CONTINUOUS INSPECTION: SLIP-CRITICAL (SC) HIGH STRENGTH BOLTED CONNECTIONS. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. NON-DESTRUCTIVE TESTING IS REQUIRED FOR ALL COMPLETE PENETRATION WELDS - SHOP AND FIELD.

MULTIPASS FILLET WELDS. SINGLE-PASS FILLET WELDS GREATER THAN 5/16-INCH. WELDING OF REINFORCING IN INTERMEDIATE AND SPECIAL MOMENT FRAMES. BOUNDARY ELEMENTS OF SPECIAL-REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.

PERIODIC INSPECTION: VERIFY HIGH-STRENGTH BOLT IDENTIFICATION MARKINGS CONFORM TO SPECIFIED ASTM STANDARDS. REVIEW OF MANUFACTURER'S CERTIFICATE OF COMPLIANCE.

INSTALLATION OF BEARING-TYPE BOLTED CONNECTIONS. SINGLE-PASS FILLET WELDS 5/16-INCH OR LESS. FLOOR AND ROOF DECK WELDS. COLD-FORMED STEEL FRAME WELDING.

WELDING OF STAIRS AND RAILINGS. WELDING OF STUDS. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A-706. WELDING OF REINFORCING STEEL OTHER THAN THAT REQUIRING CONTINUOUS INSPECTION.

STEEL JOINTS AND CONNECTIONS FOR COMPLIANCE WITH PLANS. LIGHT GAGE STEEL FRAMING: VERIFY SIZE, GAGE AND SPACING. INSPECT WELDING. VERIFY CERTIFICATION OF WELDERS.

**SPECIAL CONDITIONS**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

**NOTE TO MECHANICAL AND ELECTRICAL TRADES**  
CONTRACTOR SHALL SUBMIT PLANS SHOWING LOCATION, LOAD AND ANCHORAGE OF ALL HANGERS SUPPORTING ANY MECHANICAL, ELECTRICAL, PLUMBING OR SPRINKLER LOADS IN EXCESS OF 50 POUNDS. ANY ROOF MOUNTED EQUIPMENT SHALL BE INCLUDED IN THESE PLANS AND SHALL SHOW LOADS AND LOCATIONS. THESE SHALL BE SUBMITTED TO ENGINEERS NORTHWEST FOR REVIEW PRIOR TO INSTALLATION OF ANY OF THIS EQUIPMENT. SEE DETAILS ON DRAWING S5.1 FOR SUPPORTING LOADS FROM ROOF JOISTS. ALL DETAILS OF CONNECTIONS TO THE STRUCTURE FOR EQUIPMENT SHALL BE BY THE SUPPLIER OF THAT EQUIPMENT. THE BUILDING DEPARTMENT REQUIRES A SUBMITTAL FOR PLAN CHECK REGARDING THE DESIGN OF THESE DETAILS. IT IS THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER TO PROVIDE THIS SUBMITTAL.

**ABBREVIATIONS**

ARCH.	ARCHITECT
BAL.	BALANCE
B. OR BOT.	BOTTOM
BTWN.	BETWEEN
BLDG.	BUILDING
BRG.	BEARING
C.I.P.	CAST IN PLACE
C.J.	CONSTRUCTION JOINT
CL.	CENTERLINE
CL.R.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
C.S.J.	CLOSURE STRIP JOINT
EA.	EACH
E.E.	EACH END
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL. OR ELEV.	ELEVATION
E.N.W. OR ENW	ENGINEERS NORTHWEST
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FTG.	FOOTING
GA.	GAGE
GALV.	HOT DIP GALVANIZED
G.B.	GYPSONUM WALL BOARD
H. OR HORIZ.	HORIZONTAL
I.B.C.	INTERNATIONAL BUILDING CODE
I.C.C.	INTERNATIONAL CODE COUNCIL
I.F.	INSIDE FACE
INC.	INCLUDING
INC.	KIP (1000 POUNDS)
K.	LONG WAY
L.W.	LONG WAY
M.B.S.	METAL BLDG SUPPLIER
N.F.	NEAR FACE
N.T.S.	NOT TO SCALE
OC	ON CENTER
O.F.	OUTSIDE FACE
O.S.	OUTSIDE
OUT TO OUT	OUT TO OUT
PL	PLATE
REINF.	REINFORCING
REIN.	REINFORCEMENT
R.O.	ROUGH OPENING
SECT.	SECTIONS
SIM.	SIMILAR
S.J.	SHRINKAGE JOINT
STL.	STEEL
SW	SHEARWALL
SYMM.	SYMMETRICAL
T.	TOP
T.B.	TOP OF BEAM
T.F.	TOP OF FOOTING
T.S.	TOP OF STEEL
T.O.P.	TOP OF SLAB
T.	TOP OF WALL
T.W.	TYPICAL AT ALL SIMILAR PLACES
U.N.O.	UNLESS NOTED OTHERWISE
V.E.F.	VERTICAL EACH FACE
VERT.	VERTICAL
V.F.F.	VERTICAL FAR FACE
V.F.	VERIFY
V.I.F.	VERTICAL INSIDE FACE
V.N.F.	VERTICAL NEAR FACE
V.O.F.	VERTICAL OUTSIDE FACE
W.A.B.O.	WASHINGTON ASSOC. OF BUILDING OFFICIALS
W	WITH
W/O	WITHOUT
W.H.S.	WELD HEAD STUD
@	AT

**LIGHT GAGE & MISC. PARTS SCHEDULE**

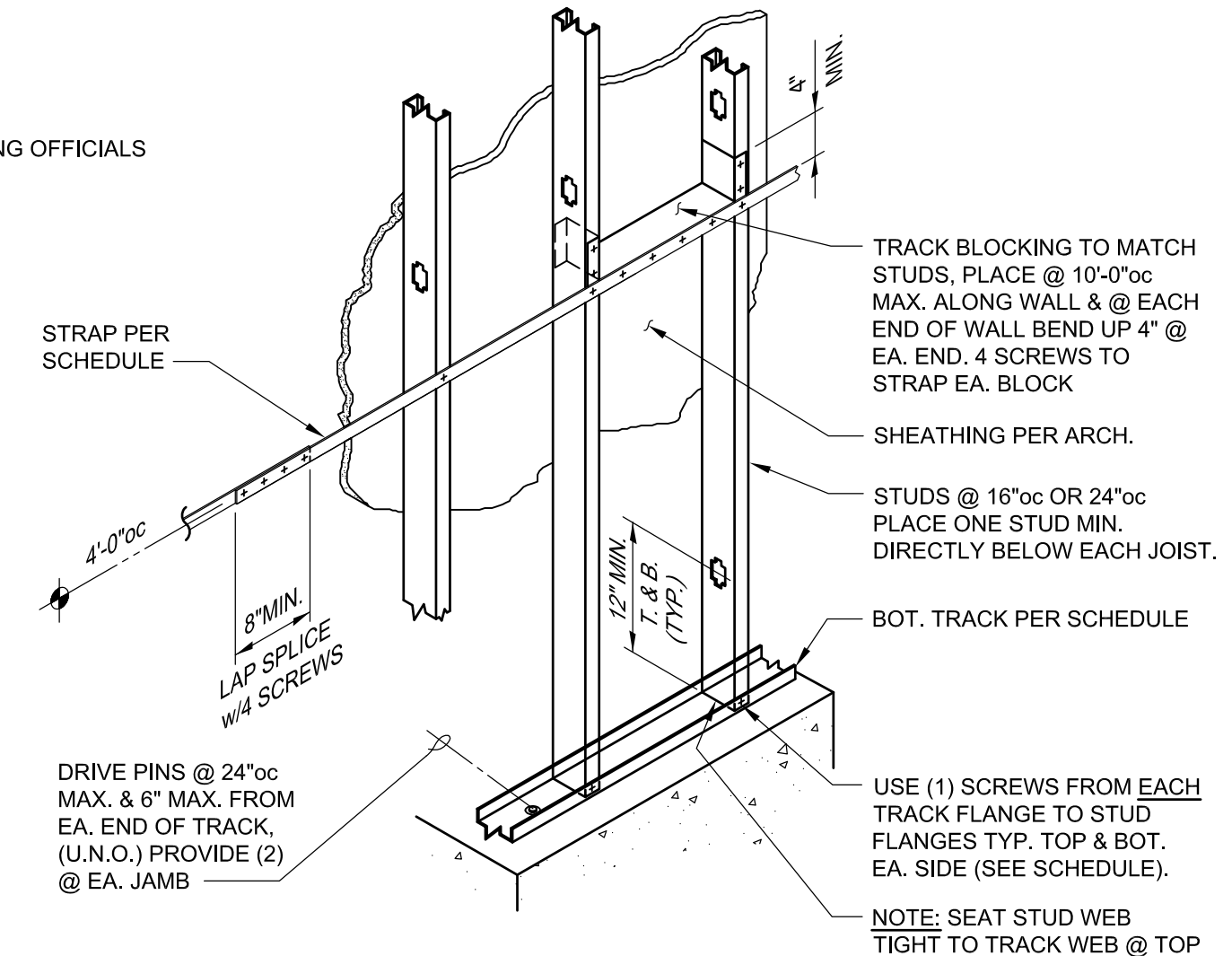
ITEM	CALLOUT	MINIMUM PROPERTIES					* APPROVED SUPPLIERS & THEIR CALLOUT FOR THESE ITEMS
		F <sub>y</sub> (K.S.I.)	t(in. <sup>2</sup> )	S(in. <sup>3</sup> )	A(in. <sup>2</sup> )	r <sub>y</sub>	
WALL TOP TRACK ** (U.N.O.)	3 5/8" x 1 1/4" x 16GA.	50	0.72	0.38	0.35	0.37	362T125 - 54 (50ksi)
WALL BOT. TRACK ** (U.N.O.)	3 5/8" x 1 1/4" x 16GA.	50	0.72	0.38	0.35	0.37	362T125 - 54 (50ksi)
WALL STUDS	3 5/8" x 1 5/8" x 20GA.	33	0.55	0.30	0.26	0.61	362S162 - 33
1 1/2" x 20GA. BRACING STRAPS (HORIZ. IN WALLS)	1 1/2" WIDE x 20GA. FLAT STRAP ALT. 1 1/2" x 16GA. C.R.C.	33	---	---	---	---	---
2" x 2" ANGLE	GAGE TO MATCH SUPPORTED MEMBER	33	---	---	---	---	---
SCREWS (MTL. TO MTL.)	#10-16 x 1" HWH #3 OR PPH #3						HILTI
SCREWS (G.W.B. TO MTL.)	#10-24 x 1 1/2" FWH #3						HILTI
WALL & BOTTOM TRACK ANCHORS	#DS37P10 (0.177"Ø X 1 1/2" LOW VELOCITY DRIVE PINS						HILTI I.C.C. ESR-1663

NOTES:  
1.) \* SUBSTITUTION OF OTHER SUPPLIERS FOR THESE ITEMS NOT ALLOWED.  
\*\* THESE JOIST & TRACK MEMBERS TO BE UNPUNCHED.  
2.) SINGLE FRAMING MEMBER SHOWN THUS: [ ]  
3.) DOUBLE FRAMING MEMBER SHOWN THUS: [ ]

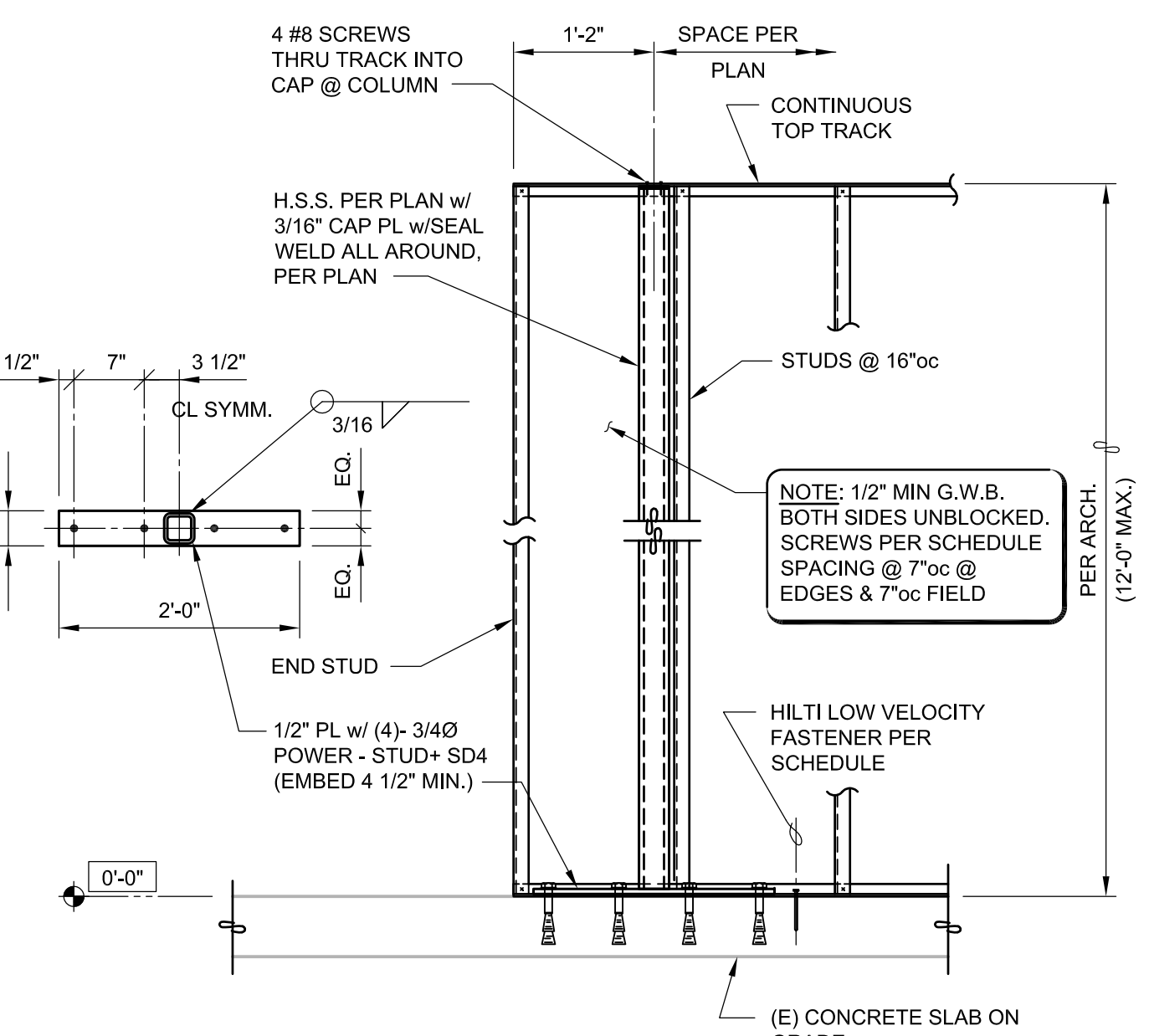
**THICKNESS OF STEEL COMPONENTS 1**

GAGE	DESIGN THICKNESS	MINIMUM THICKNESS 2
22	.0283	.0269
20	.0346	.0329
18	.0451	.0428
16	.0566	.0538
14	.0713	.0677
12	.1017	.0966
10	.1240	.1265

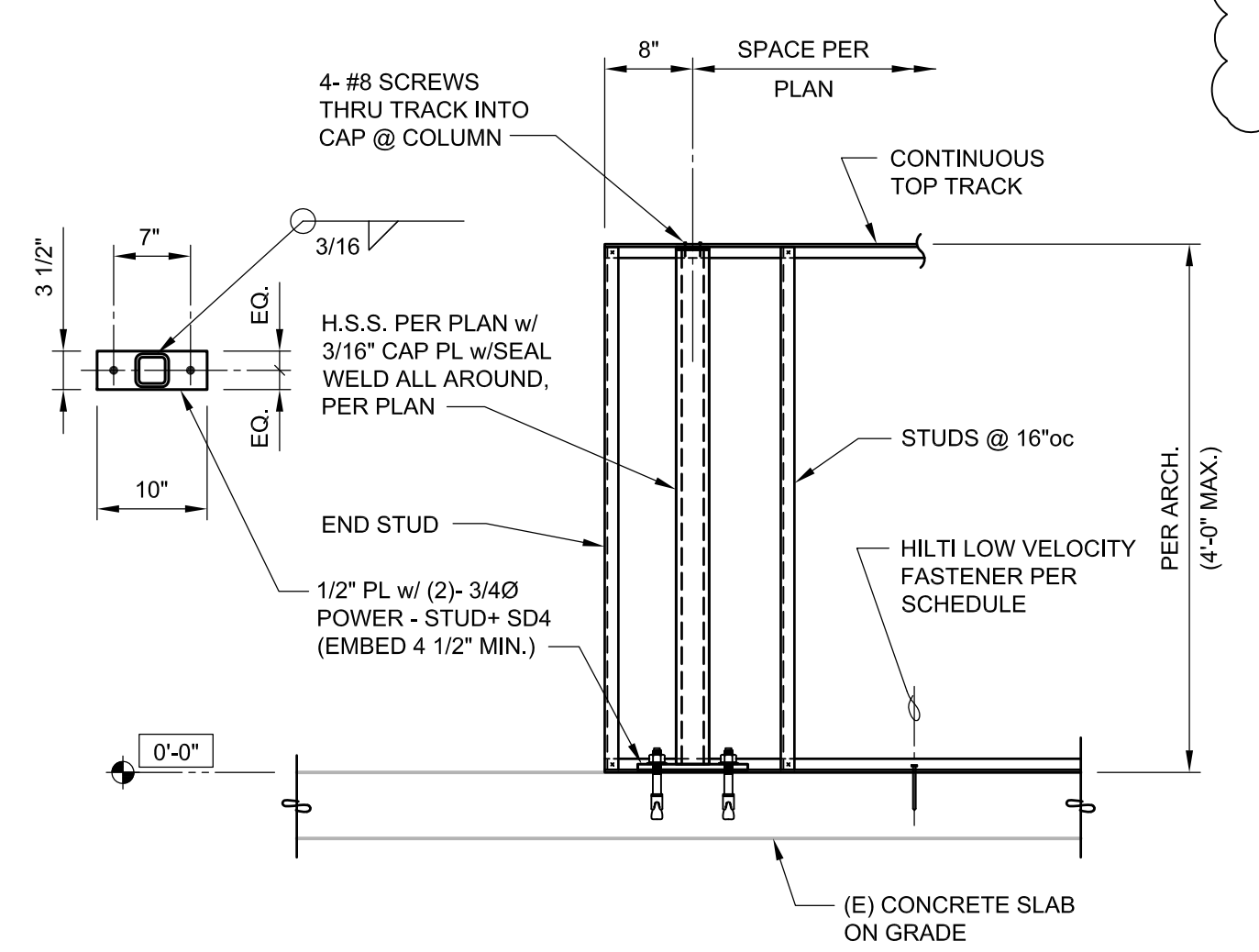
NOTES:  
1.) UNCOATED STEEL THICKNESS. THICKNESS IS FOR CARBON SHEET STEEL.  
2.) MINIMUM THICKNESS REPRESENTS 95% OF DESIGN THICKNESS AND IS THE MINIMUM ACCEPTABLE THICKNESS DELIVERED TO THE JOB SITE BASED ON SECTION A2.4 OF THE 2007 A.I.S.I. CODE.



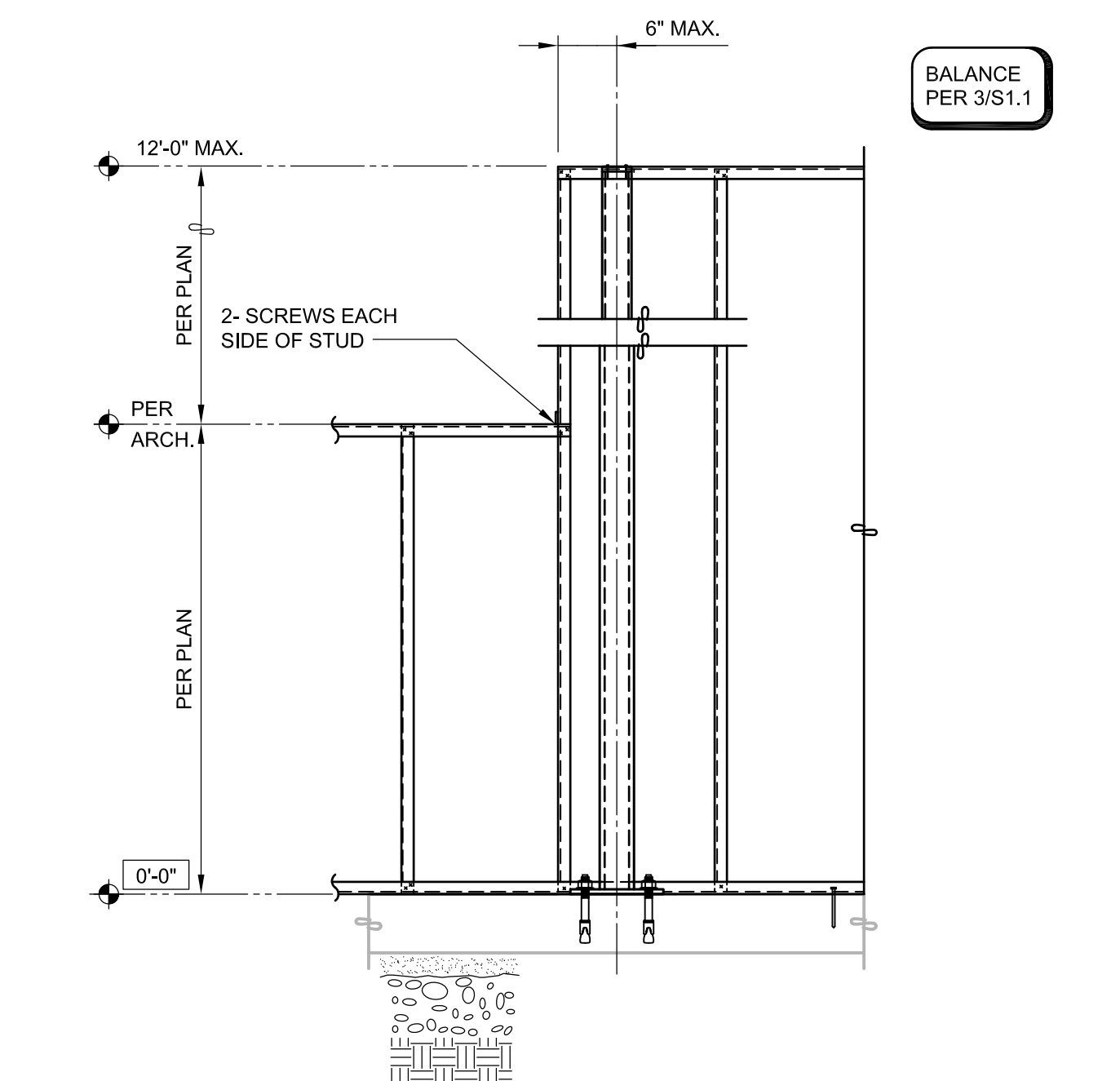
**1 SECTION**  
STRAP BLOCKING IS REQUIRED ONLY IF STUDS ARE SHEATHED ONE SIDE ONLY.  
3/4" = 1'-0"



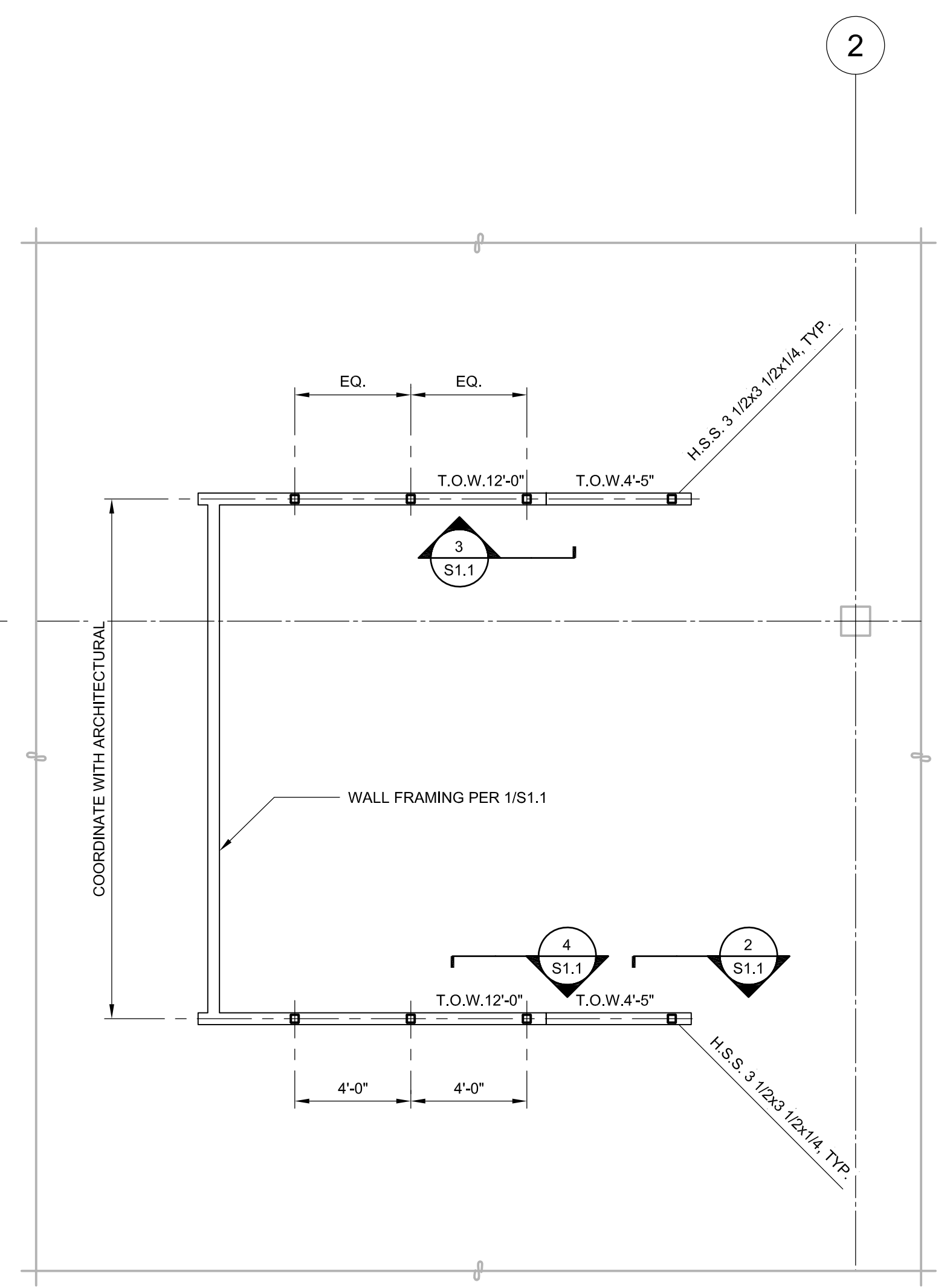
**2 SECTION**  
3/4" = 1'-0"



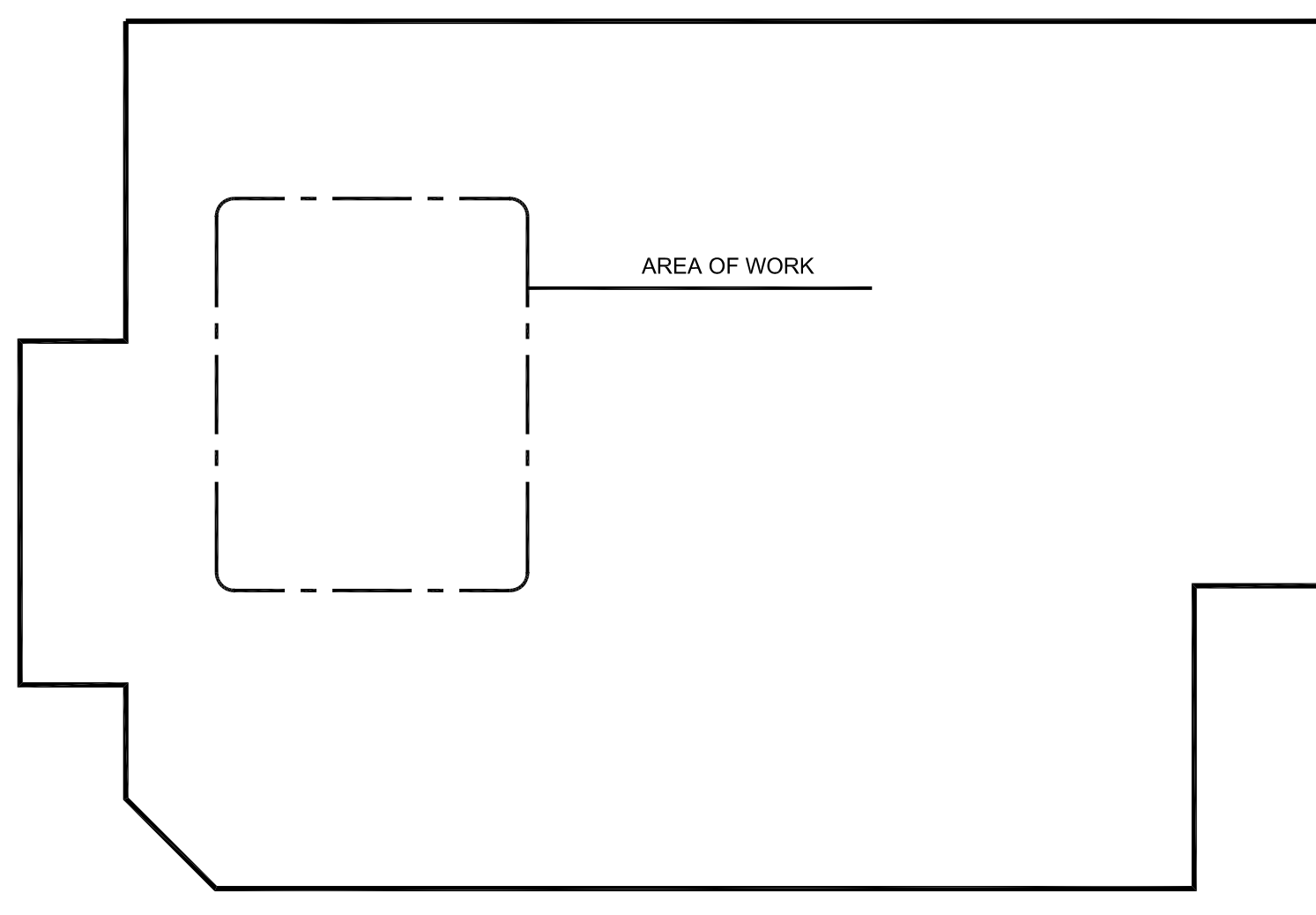
**3 SECTION**  
3/4" = 1'-0"



**4 SECTION**  
3/4" = 1'-0"



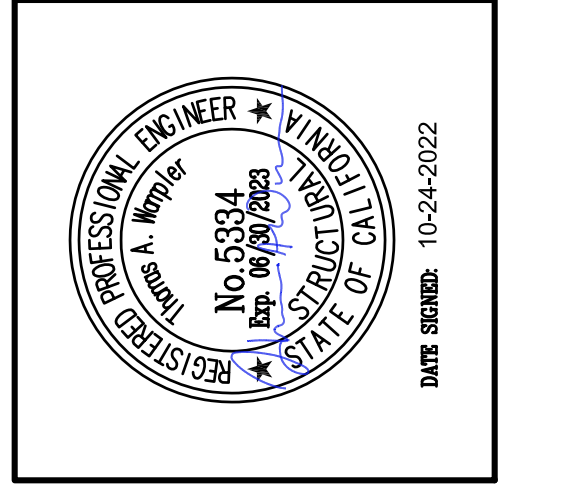
**PARTIAL FRAMING PLAN**  
1/4" = 1'-0"  
NOTES:  
1.) ALL ITEMS ARE EXISTING (E) UNLESS NOTED AS NEW (N).  
2.) FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENW IF EXISTING DIMENSIONS AND EXISTING CONDITIONS ARE NOT AS SHOWN ON PLANS AND SECTIONS.  
3.) ARCHITECT TO VERIFY ALL DIMENSIONS



**KEY PLAN**  
N.T.S.

NO.	DRAWING SUBMITTALS	DATE
	PERMIT SUBMITTAL	08/18/2022
	SUBMIT FOR BID	08/19/2022
	SUBMIT FOR CONSTRUCTION	

NO.	DRAWING REVISIONS	DATE
1	CITY COMMENTS	10/24/2022



**ENW STRUCTURAL ENGINEERS**  
Engineers Northwest Inc., P.S.  
1920 38RD AVE W., Suite 300, Lynnwood, WA 98036  
www.enwengineers.com

GENERAL NOTE AND PARTIAL CEILING PLAN  
COSTCO WHOLESALE  
HAC REMODEL  
1130 BROADWAY  
CHULA VISTA, CA. 91911

JOB NO:	03033015-3
ENGINEER:	J. SAGDAHL
DRAWN:	N. NADERI
DATE:	08-15-2021
SHEET NO.:	

**S1.1**

STATE OF CALIFORNIA  
**Mechanical Systems**  
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Hearing Center Remodel Report Page: Page 1 of 9  
 Project Address: 1130 Broadway, Chula Vista, CA 91911 Date Prepared: 10/31/22

**A. GENERAL INFORMATION**  
 01 Project Location (city) Chula Vista 04 Total Conditioned Floor Area 60  
 02 Climate Zone 10 05 Total Unconditioned Floor Area  
 03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) 1  
 Office (B)  Retail (M)  Non-refrigerated Warehouse (S)  
 Hotel/ Motel Guest Rooms (R-1)  School (E)  Healthcare Facility (H)  
 High-Rise Residential (R-2/R-3)  Relocatable Class Bldg (E)  Other (Write In):  
 \*FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at [http://www.energy.ca.gov/maps/renewable/building\\_climate\\_zones.html](http://www.energy.ca.gov/maps/renewable/building_climate_zones.html)

**B. PROJECT SCOPE**  
 Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.  
 My project consists of (check all that apply)  
 01 Air System(s) 02 Wet System Components 03 Dry System Components  
 Heating Air System  Water Economizer  Air Economizer  
 Cooling Air System  Pumps  Electric Resistance Heat  
 Mechanical Controls  Hydronic System Piping  Fan Systems  
 Mechanical Controls (existing to remain, altered or new)  Cooling Towers  Ductwork (existing to remain, altered or new)  
 Chillers  Ventilation  
 Boilers  Zonal Systems/ Terminal Boxes

**C. COMPLIANCE RESULTS**  
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.  
 System Summary §110.1, §110.2, §140.4 AND Pumps §140.4(i) AND Fans/Economizers §140.4(e) AND System Controls §110.2, §120.2, §140.4(i) AND Ventilation §120.1 AND Terminal Box Controls §140.4(d) AND Distribution §120.3, §140.4(i) AND Cooling Towers §110.2(e)2 AND Compliance Results  
 YES AND NO AND No AND DOES NOT COMPLY  
 Mandatory Measures Compliance (See Table Q for Details) DOES NOT COMPLY

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
 Please review Table I for compliance: all fields which are not grey must be completed; any selections which include a "\*" must also include a comment explaining how compliance is achieved.  
 Selections made in Table O have been changed by the permit applicant. See Table E, Additional Remarks for permit applicant's explanation.

**E. ADDITIONAL REMARKS**  
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Table Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)2 for alterations.  
 Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)  
 01 02 03 04 05 06 07 08 09 10 11  
 Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (b)(5)  
 Heating Output<sup>1,2</sup> Cooling Output<sup>1,2</sup> Load Calculations<sup>3,4</sup>  
 Name or Item Tag Equipment Category per Tables 110.2 Equipment Type per Tables 110.2 & Title 20 Smallest Size Available<sup>1</sup> §140.4(a) Per Design (kBtu/h) Rated (kBtu/h) Supp. Heating Output (kBtu/h) Sensible Per Design (kBtu/h) Rated (kBtu/h) Total Heating Load (kBtu/h) Total Sensible Cooling Load (kBtu/h)  
 CU-1 Unitary AC/ Condensers Condensing units, air cooled Yes 14,000 9,000  
 IU-121 Unitary AC/ Condensers AC, air cooled, split, space constrained Yes 10,400 9,000

<sup>1</sup> FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are exempted.  
<sup>2</sup> It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tabs.  
<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.  
<sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).  
 Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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**Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))**  
 01 02 03 04 05 06 07 08 09  
 Name or Item Tag Size Category (Btu/h) Rating Condition (°F) Heating Mode Efficiency Unit Min Efficiency Required per Tables 110.2/ Title 20 Design Efficiency Efficiency Unit Min Efficiency Required per Tables 110.2/ Title 20 Design Efficiency  
 G. PUMPS  
 This Section Does Not Apply  
 H. FAN SYSTEMS & AIR ECONOMIZERS  
 This Section Does Not Apply  
 I. SYSTEM CONTROLS  
 Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2 for altered space conditioning systems.  
 01 02 03 04 05 06 07 08 09  
 System Name System Zoning Conditioned Floor Area Being Served (ft²) Thermostats §110.2(b) & (c)1, §120.2(a) or §141.0(b)2 Shut-Off Controls §120.2(e) Isolation Zone Controls §120.2(a) Demand Response §110.12 and §120.2(b) Supply Air Temp. Reset §143.4(f) Window Interlocks per §140.4(n)  
 IU-121 single zone ≤ 25,000 ft² NA: Single Zone NA: No operable windows

\*FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.  
 \*NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.  
 EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(f); EXCEPTION 1 to §140.4(f)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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**J. VENTILATION AND INDOOR AIR QUALITY**  
 This Section Does Not Apply

**K. TERMINAL BOX CONTROLS**  
 This Section Does Not Apply

**L. DISTRIBUTION (DUCTWORK AND PIPING)**  
 This Section Does Not Apply

**M. COOLING TOWERS**  
 This Section Does Not Apply

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCC/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/)  
 YES NO Form/Title Systems To Be Field Verified Field Inspector Pass Fail  
 NRCC-MCH-01-E - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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 Project Name: Hearing Center Remodel Report Page: Page 5 of 9  
 Project Address: 1130 Broadway, Chula Vista, CA 91911 Date Prepared: 10/31/22

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCC/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/)  
 YES NO Form/Title Systems To Be Field Verified Field Inspector Pass Fail  
 NRCC-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.  
 NRCC-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".  
 NRCC-MCH-04-A Air Distribution Duct Leakage  
 NRCC-MCH-05-A Air Economizer Controls  
 NRCC-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.  
 NRCC-MCH-07-A Supply Fan Variable Flow Controls  
 NRCC-MCH-08-A Valve Leakage Test  
 NRCC-MCH-09-A Supply Water Temperature Reset Controls  
 NRCC-MCH-10-A Hydronic System Variable Flow Controls  
 NRCC-MCH-11-A Automatic Demand Shed Controls

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA  
**Mechanical Systems**  
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Hearing Center Remodel Report Page: Page 5 of 9  
 Project Address: 1130 Broadway, Chula Vista, CA 91911 Date Prepared: 10/31/22

**P. MANDATORY MEASURES DOCUMENTATION LOCATION**  
 Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.  
 01 02  
 Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block: Yes Plan sheet or construction document location

**Q. DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 1. I certify that this Certificate of Compliance documentation is accurate and complete.  
 Documentation Author Name: Paal Ryan Documentation Author Signature: [Signature]  
 Company: T.E., Inc. Signature Date: 10/31/22  
 Address: 830 North Riverside Drive Suite #200 CEAT/HERS Certification Identification (if applicable):  
 City/State/Zip: Renton, Washington 98057 Phone: (425) 970-3753

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.  
 Responsible Designer Name: Paal Ryan Responsible Designer Signature: [Signature]  
 Company: T.E., Inc. Date Signed: 10/31/22  
 Address: 830 North Riverside Drive Suite #200 License:  
 City/State/Zip: Renton, Washington 98057 Phone: (425) 970-3753

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA  
**Mechanical Systems**  
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Hearing Center Remodel Report Page: Page 7 of 9  
 Project Address: 1130 Broadway, Chula Vista, CA 91911 Date Prepared: 10/31/22

**R. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
 Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCV/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/)  
 YES NO Form/Title Field Inspector Pass Fail  
 NRCV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater  
 NRCV-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater  
 NRCV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater  
 NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA  
**Mechanical Systems**  
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Hearing Center Remodel Report Page: Page 8 of 9  
 Project Address: 1130 Broadway, Chula Vista, CA 91911 Date Prepared: 10/31/22

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**  
 Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.  
 01 02  
 Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block: Yes Plan sheet or construction document location

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA  
**Mechanical Systems**  
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Hearing Center Remodel Report Page: Page 9 of 9  
 Project Address: 1130 Broadway, Chula Vista, CA 91911 Date Prepared: 10/31/22

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**  
 1. I certify that this Certificate of Compliance documentation is accurate and complete.  
 Documentation Author Name: Paal Ryan Documentation Author Signature: [Signature]  
 Company: T.E., Inc. Signature Date: 10/31/22  
 Address: 830 North Riverside Drive Suite #200 CEAT/HERS Certification Identification (if applicable):  
 City/State/Zip: Renton, Washington 98057 Phone: (425) 970-3753

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**  
 I certify the following under penalty of perjury, under the laws of the State of California:  
 1. The information provided on this Certificate of Compliance is true and correct.  
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).  
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.  
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.  
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 Company: T.E., Inc. Date Signed: 10/31/22  
 Address: 830 North Riverside Drive Suite #200 License:  
 City/State/Zip: Renton, Washington 98057 Phone: (425) 970-3753

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

PERMIT COMMENTS

CHECKED: PKY/PWC  
 DRAWN: AXH  
 REVISION DATE: OCTOBER 31, 2022



ISSUED FOR PERMIT/BD  
 08/18/22  
 11/01/22  
 PERMIT COMMENTS 1

ISSUE DATE: AUGUST 17, 2022

ARCHITECT REFERENCE NO: 98-5890-20

T.E., Inc.  
 830 N. RIVERSIDE DRIVE  
 SUITE #200  
 RENTON, WA 98057  
 PHONE: 425-970-3753  
 FAX: 425-970-3756

HEARING CENTER  
 REMODEL  
 WAREHOUSE #781  
 1130 BROADWAY  
 CHULA VISTA, CA 91911



TITLE 24

PREPARED NO. 22-267

MP-0.1  
 11/01/22

K:\2022\260-269\22-267 - Costco - Chula Vista (#0781) - CA - Hearing Center Remodel\267MP-0.1.dwg, 11/1/2022 10:15:11 AM, Leitch

K:\2022\260-269-267 - Costco - Chula Vista (#0781) - CA - Hearing Center Remodel\267MP-1.dwg, 11/1/2022 10:15:19 AM, Tleitch

### GENERAL MECHANICAL NOTES

- THE FOLLOWING NOTES APPLY TO THE ENTIRE PLAN AS APPLICABLE.
- M.C. SHALL ENSURE ALL ROOF TOP EQUIPMENT IS LABELED CORRECTLY AND MATCH CALLOUTS ON PLAN ON THE INSIDE & OUT OF THE BUILDING. THIS INCLUDES HVAC UNITS AND EXHAUST FAN. LABELS SHOULD BE IN 6" BLOCK LETTERING IN BLACK COLOR AND LOCATED WHERE EASILY VISIBLE FROM THE ROOF HATCH.
  - MAINTAIN A MINIMUM OF 10'-0" BETWEEN EXHAUST OUTLET AND UNIT FRESH AIR INTAKE.
  - COORDINATE ALL MECHANICAL DUCTWORK LOCATIONS WITH ELECTRICAL EQUIPMENT. NO DUCTWORK WILL BE ALLOWED TO RUN OVER THE TOP OF ELECTRICAL DISTRIBUTION EQUIPMENT OF PANELS.
  - DIMENSIONS ARE TO COLUMN LINES.
  - APPLICABLE BUILDING CODE: 2019 CBC
  - APPLICABLE MECHANICAL CODE: 2019 CMC
  - APPLICABLE ENERGY CODE: 2019 DEC
  - PROVIDE TIE DOWN FOR ALL FLUES & VENTS OF 3' OR TALLER.
  - FIELD VERIFY EXISTING FIRE SPRINKLERS AND DUCT DETECTORS. REINSTALL AND RECONNECT DUCT DETECTORS OR REPLACE WITH EQUAL.
  - ALL CONDENSATE PIPING TO BE SLOPED AT 2% MINIMUM UNLESS OTHERWISE NOTED.
  - RUN PIPING IN TRUSS SPACE PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS. FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTING AND SKYLIGHTS

### MECHANICAL PLAN NOTES

- SEE RUBBIE ON PLAN FOR SPECIFIC REFERENCE.
- FIELD VERIFY UNIT NUMBERING. RENUMBER UNIT AS SHOWN IF NECESSARY. (RELABEL UNIT AND PANEL SCHEDULE).
  - INSTALL NEW SPLIT SYSTEM. MC TO LOCATE NEW OUTDOOR UNIT ABOVE BEAM. MAINTAIN MINIMUM SERVICE CLEARANCE FROM EXISTING SKYLIGHTS AND UNITS.

### PIPING SYSTEMS

- THE FOLLOWING NOTES APPLY TO THE ENTIRE PLAN AS APPLICABLE.
- APPLICABLE PLUMBING CODE: 2019 CPC
  - ALL WASTE PIPING, CONDENSATE PIPING & STORM DRAIN PIPING TO BE SLOPED AT 2% MINIMUM UNLESS OTHERWISE NOTED.
  - SURFACE MOUNTED PIPING WILL NOT BE ACCEPTABLE IN FINISHED ROOMS OR COOLERS. PIPING AND CONDUIT OF ALL TYPES SHALL BE CONCEALED WITHIN WALLS, FLOORS, OR CEILINGS (INCLUDING CONDENSATE DRAIN LINES, WATER HEATER PRESSURE RELIEF LINES AND SODA LINES.)
  - INSULATE ALL INTERIOR PIPING: STORM DRAIN, HOT, COLD REIRC, AND CONDENSATE PER SPECIFICATION SECTION 22 07 00.
  - PIPING IN ROOF TRUSS SPACE TO BE RUN PERPENDICULAR OR PARALLEL TO BUILDING JOIST OR GIRDERS. FOR PASSING BELOW SOLID GIRDERS MOUNT PIPING 6" MAXIMUM FROM BOTTOM OF GIRDER. DO NOT BLOCK LIGHTING & SKYLIGHTS
  - BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE
  - ALL SANITARY SYSTEMS MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY
  - EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX INCHES ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT
  - SINK FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.8 GPM

### PIPE MATERIAL SCHEDULE

PIPE USE	MATERIAL	ALTERNATE MATERIAL (IF ALLOWED BY JURISDICTION)
DOMESTIC WATER	ALL DOMESTIC WATER PIPING ABOVE GRADE TO BE SIZED PER PLAN TYPE L, HARD DRAWN TEMPER COPPER TUBE PIPING ASTM B 88.	NONE.
FUEL GAS	ALL FUEL GAS PIPING TO BE SIZED PER PLAN STANDARD WEIGHT BLACK STEEL PIPING ASTM A 53	NONE.
GREASE WASTE	ALL WASTE PIPING 2-1/2" AND LARGER ABOVE GRADE, AND ALL UNDERGROUND PIPING TO BE SIZED PER PLAN STANDARD HUBLESS CAST IRON PIPING CISPI 301. ALL WASTE PIPING 2" AND SMALLER ABOVE GRADE TO BE SIZED PER PLAN STANDARD WEIGHT GALVANIZED STEEL ASTM A 53.	PVC (NON CELLULAR) ASTM D2665
VENT	ALL VENT PIPING BELOW GRADE TO BE SIZED PER PLAN STANDARD HUBLESS CAST IRON PIPING CISPI 301. ALL VENT PIPING ABOVE GRADE TO BE SIZED PER PLAN STANDARD WEIGHT GALVANIZED STEEL ASTM A 53.	PVC (ASTM D2665), ABS
WASTE	ALL WASTE PIPING 2-1/2" AND LARGER ABOVE GRADE, AND ALL UNDERGROUND PIPING TO BE SIZED PER PLAN STANDARD HUBLESS CAST IRON PIPING CISPI 301. ALL WASTE PIPING 2" AND SMALLER ABOVE GRADE TO BE SIZED PER PLAN STANDARD WEIGHT GALVANIZED STEEL ASTM A 53.	PVC (ASTM D2665), ABS

### PARTIAL FLOOR PLAN

SCALE: 1/16" = 1'-0"

### HEARING CENTER HVAC PLAN

SCALE: 1/4" = 1'-0"

### HEARING CENTER PLUMBING PLAN

SCALE: 1/4" = 1'-0"

### HEARING CENTER WASTE & VENT PLAN

SCALE: 1/4" = 1'-0"

### HVAC LEGEND

	AIR DUCT - FIRST # IS SIDE SHOWN
	FLEXIBLE DUCT CONNECTION
	TURNING VANE
	SUPPLY DUCT UP
	RETURN DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT DOWN
	AIR VOLUME DAMPER
	CEILING DIFFUSER
	SQUARE TO ROUND DUCT TRANSITION
	CONDENSATE DRAIN
	AIR CONDITIONER #1
	THERMOSTAT
	THERMOSTAT (W/LOCKING COVER)
	SENSOR
	HUMIDISTAT
	CARBON DIOXIDE
	CONT.
	TYP.
	CFM CUBIC FEET PER MINUTE
	DB DRY BULB TEMPERATURE
	DG DOOR GRILLE
	WB WET BULB TEMPERATURE
	MBH 1,000 BRITISH THERMAL UNITS/HR.
	ESP EXTERNAL STATIC PRESSURE
	EG EXHAUST GRILLE
	RG RETURN GRILLE
	CD CEILING DIFFUSER
	RA RETURN AIR
	SA SUPPLY AIR
	CDF CEILING DIFFUSER WITH FIRE DAMPER
	RGF RETURN GRILLE WITH FIRE DAMPER
	CDFP CEILING DIFFUSER FOOD PREPARATION
	RGFP RETURN GRILLE FOOD PREPARATION
	CO CLEAN OUT
	VD VOLUME DAMPER
	MBS METAL BUILDING SUPPLIER
	M.C. MECHANICAL CONTRACTOR
	G.C. GENERAL CONTRACTOR
	S.I.C. SUPPLY/INSTALL BY CONTRACTOR
	S.I.O. SUPPLY/INSTALL BY OWNER
	S.O.I.C. SUPPLY BY OWNER INSTALL BY CONTRACTOR
	S.O.I.R.C. SUPPLY BY OWNER INSTALL BY REFR. CONTRACTOR
	U.N.O. UNLESS NOTED OTHERWISE

### PLUMBING LEGEND

	CWV COMBINATION WASTE & VENT
	GW GREASY WASTE/SANITARY SEWER
	WASTE/SANITARY SEWER
	VENT
	COLD WATER
	HOT WATER
	HOT WATER CIRCULATION
	A AIR
	C CONDENSATE DRAIN
	G GAS
	N2 NITROGEN
	S SOFTENED COLD WATER
	H HARD COLD WATER
	SD STORM/OVERFLOW DRAIN
	SSD SIPHONIC STORM DRAIN
	RD FILTERED (RO) COLD WATER
	GAS COCK
	CONTROL VALVE - 2 WAY
	CONTROL VALVE - 3 WAY
	RPPB/PP REDUCED PRESSURE PRINCIPLE
	STRAINER
	THERMOMETER
	VALVE - CHECK
	VALVE - GATE
	VALVE - PRESSURE REDUCING (PRV)
	MIXING VALVE
	PRESSURE GAUGE
	AUTO AIR VENT
	CAP OFF
	A.F.F. ABOVE FINISH FLOOR
	A.H.J. AUTHORITY HAVING JURISDICTION
	B.F.F. BELOW FINISH FLOOR
	CO CLEAN OUT
	CONT. CONTINUATION
	CW COLD WATER
	CWV COMBINATION WASTE & VENT
	FCO FLOOR CLEAN OUT
	G.C. GENERAL CONTRACTOR
	G.V. GATE VALVE
	GW GREASE WASTE
	H&CW HOT & COLD WATER
	HW HOT WATER
	IN. WC INCHES OF WATER COLUMN
	MBH 1,000 BRITISH THERMAL UNITS/HR.
	M.C. MECHANICAL CONTRACTOR
	PSI POUNDS PER SQUARE INCH
	RN ROUGH INSTALLATION
	RPPB REDUCED PRESSURE PRINCIPLE
	RPZ BACKFLOW PREVENTER
	RPZ REDUCED PRESSURE ZONE ASSEMBLY
	RPZ BACKFLOW PREVENTER
	SCO SURFACE CLEAN OUT
	S.S. SANITARY SEWER
	TYP. TYPICAL
	U UNION
	VTR VENT THRU ROOF
	W. WASTE
	WCO WALL CLEAN OUT
	WHA WATER HAMMER ARRESTER

MECHANICAL AND PLUMBING PLANS, NOTES, AND LEGENDS

REVISION DATE: OCTOBER 31, 2022  
 ISSUE DATE: AUGUST 17, 2022  
 ARCHITECT REFERENCE NO: 99-8890-20

CHECKED: PKR/CWC  
 DRAWN: AXH

ISSUED FOR PERMIT/BD  
 08/18/22  
 11/01/22

PERMIT COMMENTS 1

HEARING CENTER REMODEL

WAREHOUSE #781

1130 BROADWAY

CHULA VISTA, CA 91911

T.F., Inc.  
 830 N. RIVERSIDE DRIVE  
 SUITE #200  
 RENTON, WA 98057  
 PHONE: 425-970-3753  
 FAX: 425-970-3756

**COSTCO** WHOLESALE

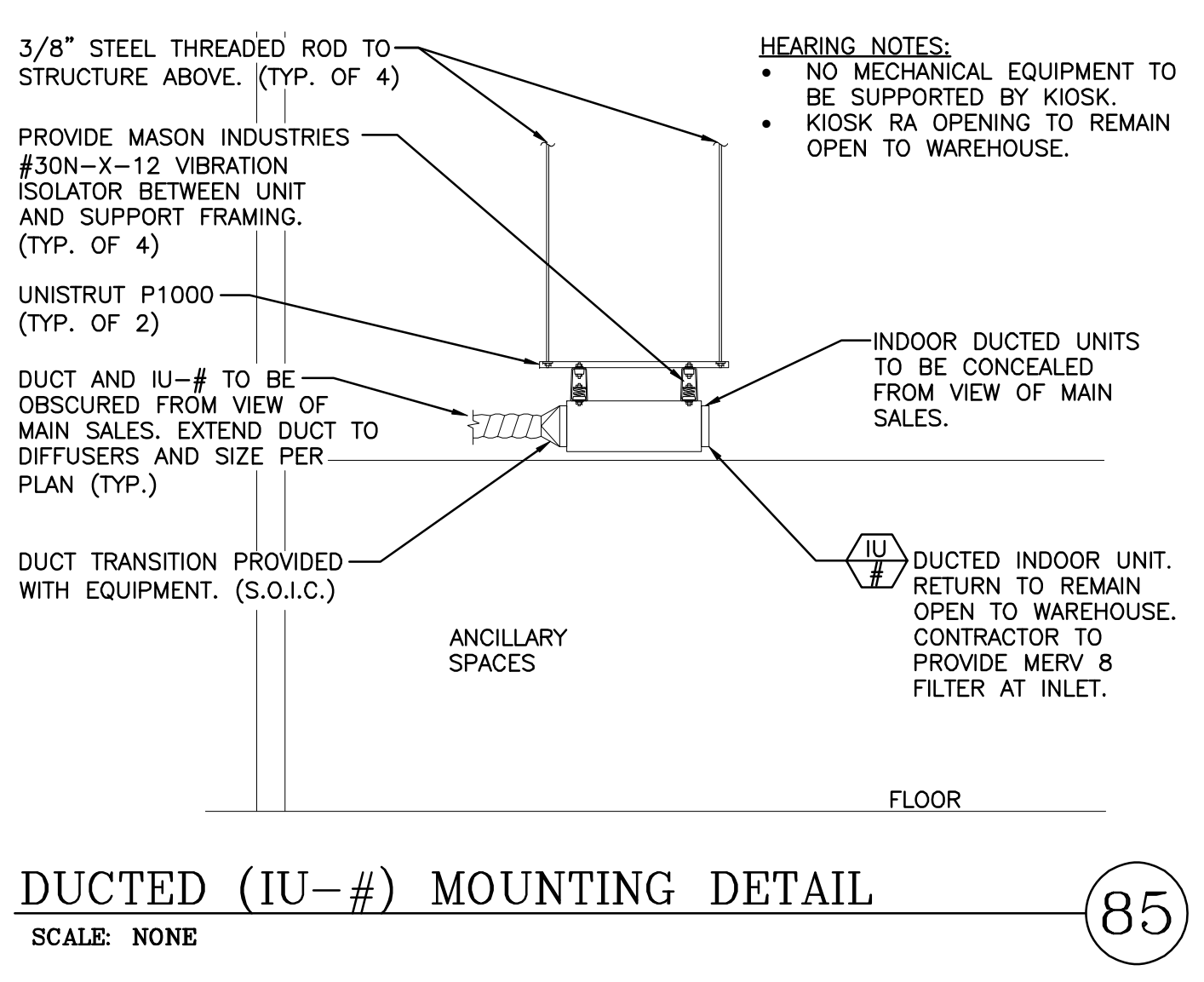
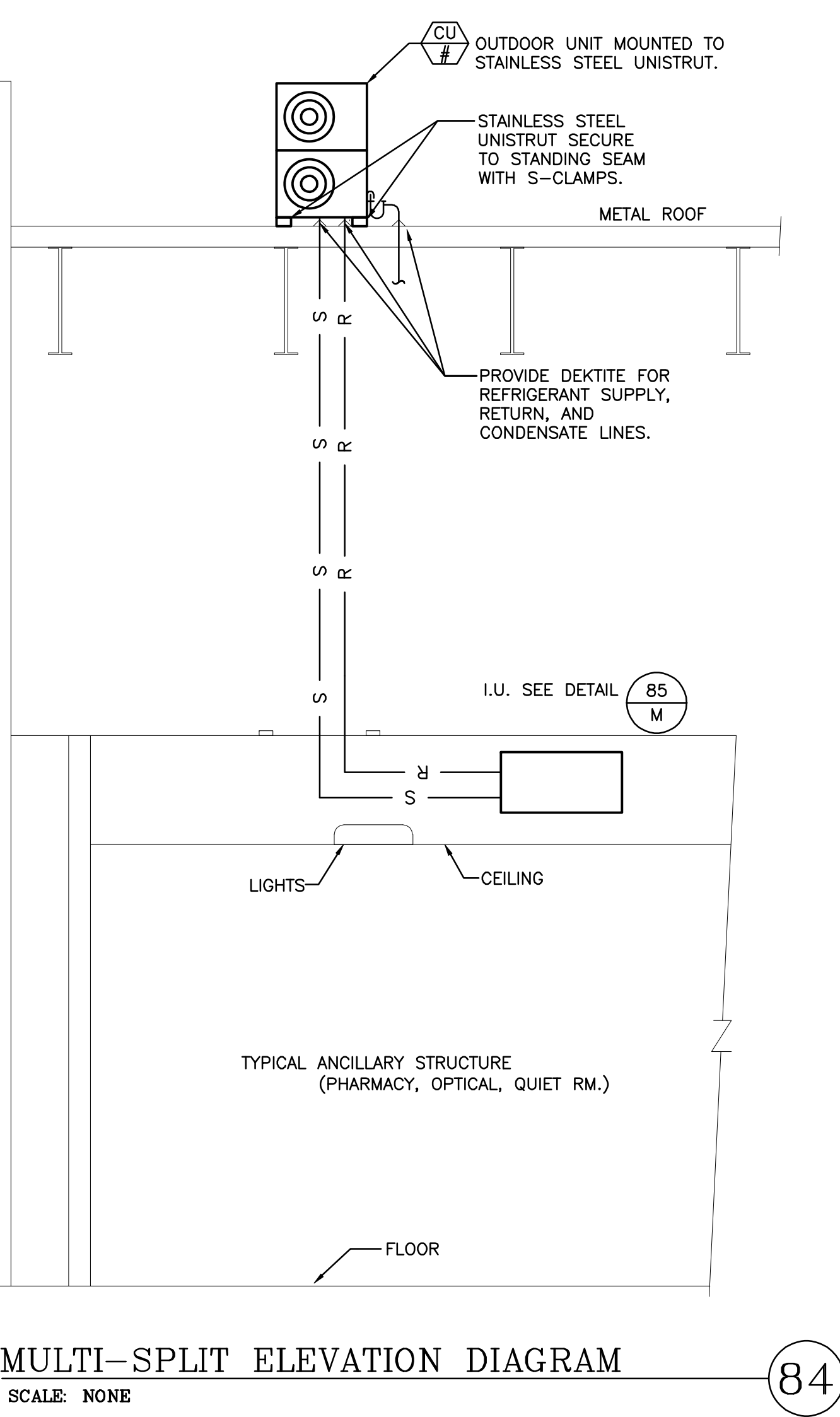
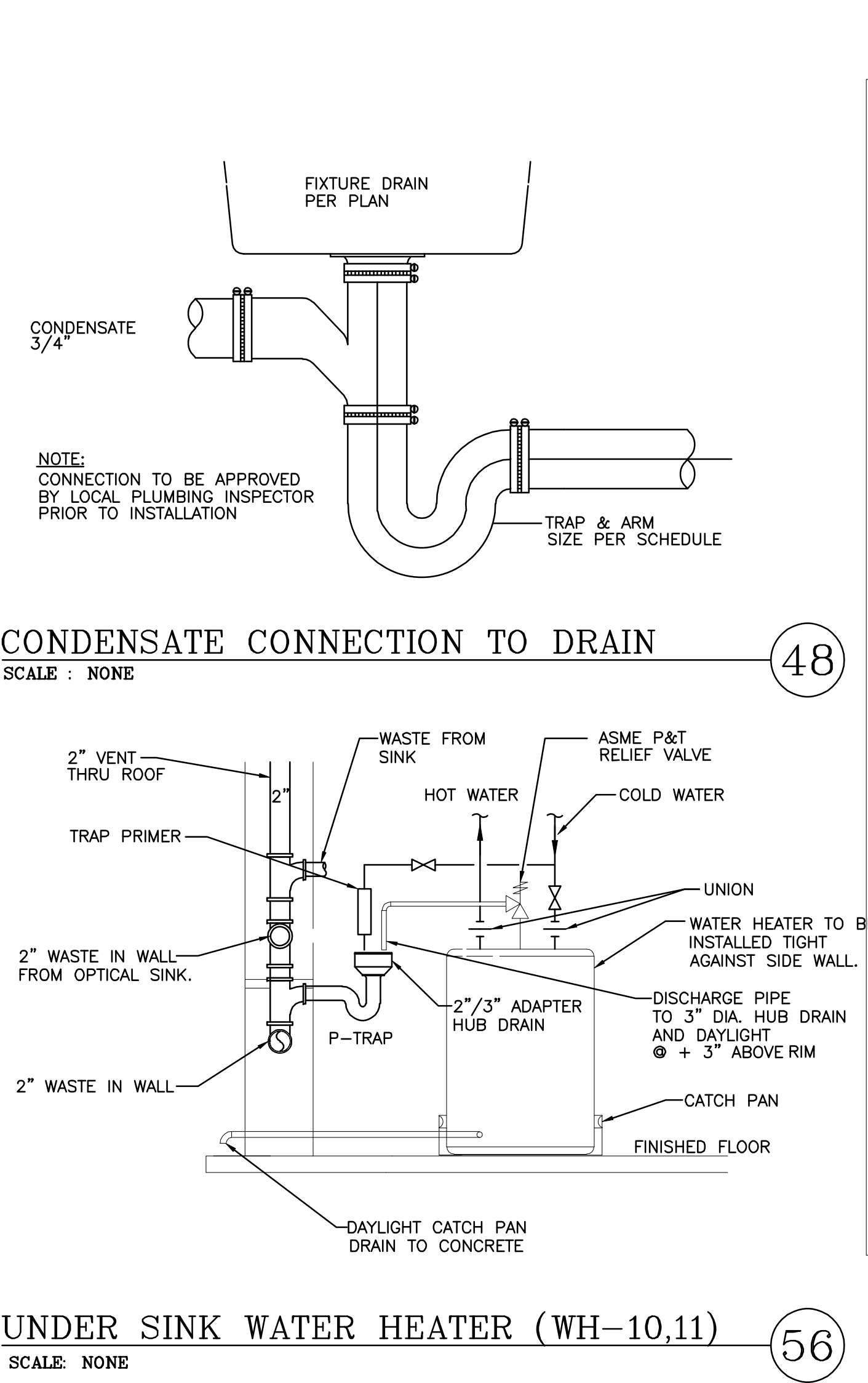
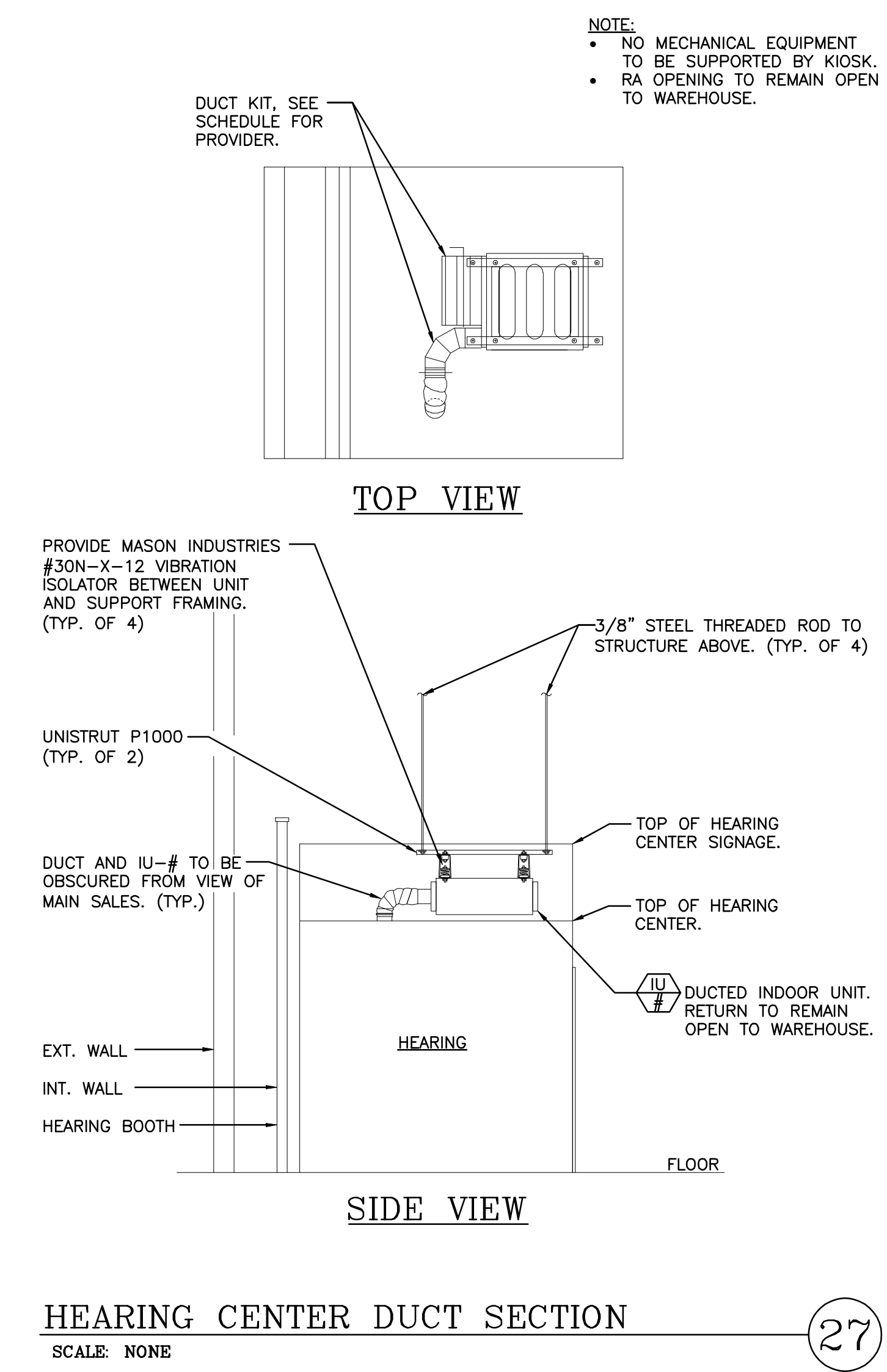
MP-1

PLUMBING FIXTURE SCHEDULE – SUPPLIED BY OWNER INSTALLED BY CONTRACTOR (SOIC)											
SYMBOL	DESCRIPTION	MFR./MODEL	WASTE	VENT	COLD W.	HOT W.	SPECIFICATIONS	DETAIL	SERVES	NOTES	BACKFLOW PREVENTION
HES	HEARING EXAM SINK		2"	1-1/2"	1/2"	1/2"	22 GAUGE TYPE 302 SELF RIMMING STAINLESS STEEL, LEDGE TYPE, SINGLE COMPARTMENT SINK, 12"x10"x6" DEEP WITH FAUCET LEDGE. INCLUDES CHROME FAUCET, STRAINER AND INSTALLATION HARDWARE.		HEARING EXAM		LH-BS AG
WH-4	WATER HEATER 120°F	EE MAX EMT 2.5			1/2"	1/2"	2.5 GAL., ELECTRIC WATER HEATER, 1.2KW, 120V/1Ø, 10 AMPS. 6.0 GPH @ 100" RISE.	56/P	HEARING CENTER	(3)	N/A
(3) WATER HEATERS TO HAVE RIGID CONNECTIONS & CONSTRAINTS TO RESIST SEISMIC MOTION.											
								HAZARD TYPE		BACKFLOW POTENTIAL	
								LH – LOW HAZARD		BS – BACK SIPHONAGE	
								HH – HIGH HAZARD		BP – BACK PRESSURE	
BACKFLOW PREVENTION											
RPZ – REDUCED PRESSURE PRINCIPLE BACK FLOW											
PVB – PRESSURE VACUUM BREAKER											
AG – AIR GAP											
AVB – ATMOSPHERIC VACUUM BREAKER											

HVAC EQUIPMENT SCHEDULE-S.O.I.C.									
COOLING DESIGN TEMPERATURES: 93.3°F DB, 76.9°F MCWB, 18.2°F DAILY RANGE					HEATING DESIGN TEMPERATURES: 30.4°F DB 99%, 27.4°F DB 99.6% ELEVATION: 52 FT				
SYMBOL	ITEM	SERVES	MFR./#	DESCRIPTION	ELECT.	WEIGHT	REFERENCE	REMARKS	NOTES
CU-1	AIR CONDITIONER	HEARING	LG LDN097HV4	HEAT PUMP OUTDOOR UNIT, 1/4" LIQ, 3/8" GAS, 9.00 MBH COOLING, 14.00 MBH HEAT @ 47°F.	3/4 NOM. TONS, EER = 12.7 SEER = 18.5 COP = 3.3	208V/1Ø 15A MOP 11.49 MCA	UNIT: 82#	84/M	PROVIDE Y-BRANCH KIT P/N: PMBL5620
IU-121	AIR CONDITIONER	HEARING	LG LDN097HV4	INDOOR (LOW STATIC) DUCTED UNIT, 1/4" LIQUID, 3/8" GAS, 9.0 MBH COOLING, 10.4 MBH HEAT	318/247/194 CFM 0.2" S.P. MAX.	POWERED BY CU-1	UNIT: 39#	85/M	O/A FROM WAREHOUSE

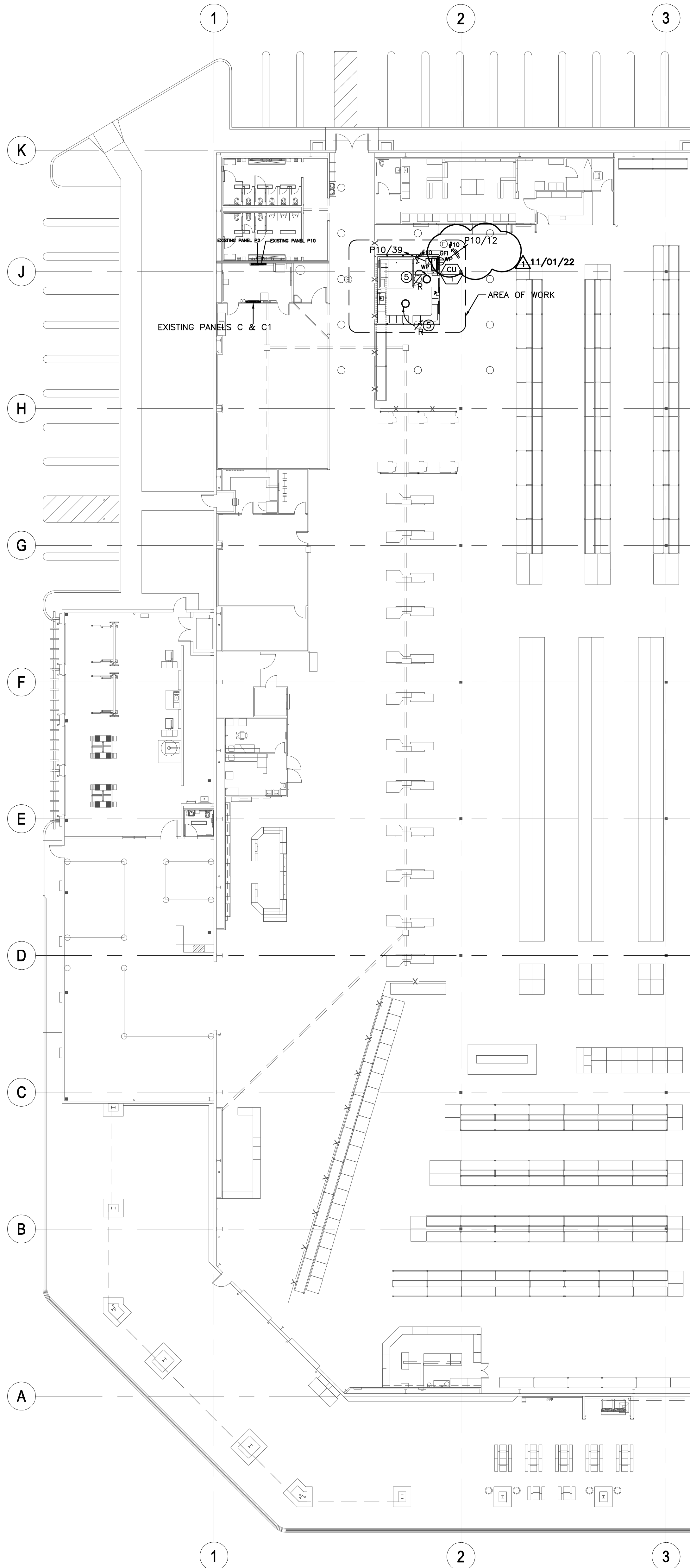
GENERAL NOTES

- All equipment furnished by owner. Refer to HVAC Equipment Responsibilities on sheet M-0.2 for installation.
- AC units provided with D.D.C. communications interface controlled by building management system by controls installer. sensor/t'stat S.I.O. sensors @ +72", t'stats at 48" A.F.F.
- Refrigeration contractor to install all items listed in equipment submittal per manufacturers installation and operation manual
- For LG multi-split layout, piping information and equipment submittals, contact Alex Noble at Johnson Barrow: 425.445.4935 or ALEXN@JBARROW.COM



MECHANICAL AND PLUMBING SCHEDULES, AND DETAILS  
 PROJECT NO: 22-267  
 © 2022  
 ARCHITECT REFERENCE NO: 99-5880-20  
 T.E., Inc.  
 880 N. RIVERSIDE DRIVE  
 SUITE #200  
 RENTON, WA 98057  
 PHONE: 425-970-3763  
 FAX: 425-970-3766  
 HEARING CENTER REMODEL WAREHOUSE #781  
 1130 BROADWAY  
 CHULA VISTA, CA 91911  
 PERMIT COMMENTS  
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 REVISION DATE: OCTOBER 31, 2022  
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 11/01/22 PERMIT COMMENTS 1

K:\2022\260-269\22-267 - Costco - Chula Vista (#0781) - CA - Hearing Center Remodel\267E-1.dwg, 11/1/2022 10:15:30 AM, Tlitch



**PARTIAL FLOOR PLAN**  
SCALE: 1/16" = 1'-0"

LEGEND	
⊕	DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED
⊕	ISOLATED GROUND DUPLEX RECEPTACLE, +18" MIN. OR AS NOTED
⊕	ISOLATED GROUND FOUR-FLEX RECEPTACLE, +18" MIN. OR AS NOTED
⊕	FOUR-FLEX RECEPTACLE, +18" MIN. OR AS NOTED
⊕	PLUGMOLD WITH RECEPTACLES, SEE SPECS
⊕	JUNCTION BOX, SIZE AND TYPE PER CODE
⊕	FUSED DISCONNECT, COORDINATE W/EQUIPMENT SUPPLIER
⊕	COMBINATION STARTER/DISCONNECT SWITCH
⊕	NON-FUSED DISCONNECT, COORDINATE W/EQUIPMENT SUPPLIER
⊕	HACR BREAKER IN NEMA ENCLOSURE, COORDINATE W/EQUIPMENT SUPPLIER
M.S.B.	MAIN SWITCHBOARD
M.L.O.	MAIN LUGS ONLY
CU	COPPER
A.F.F.	ABOVE FINISH FLOOR
GF	GROUND FAULT CIRCUIT INTERRUPTER + WR (WEATHER RESISTANT) OUTDOOR
G.C.	GENERAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
TYP.	TYPICAL
⊕	HACR BREAKER IN NEMA ENCLOSURE. COORDINATE WITH EQUIPMENT SUPPLIER.
⊕	MOTOR CONNECTION AS REQUIRED
⊕	TELEPHONE / DATA OUTLET WITH 3/4" CONCEALED-IN-WALL CONDUIT UP TO CEILING SPACE OR AS SHOWN. DO NOT DASY CHAIN.
⊕	2-COMPARTMENT POWER POLE, WIREMOLD 25DTP SERIES
⊕	CONDUIT IN CEILING OR WALL, 1/2" MIN.
⊕	CONDUIT UNDERGROUND OR FLOOR, 3/4" MIN.
⊕	HOME RUN TO PANEL WITH CIRCUIT NUMBER, SLASHES INDICATE NUMBER OF CONDUCTORS
⊕	INDICATES WIRES AND CONDUIT OTHER THAN #12, 1/2" C - METALLIC CONDUIT, PVC - PLASTIC CONDUIT
⊕	ISOLATED GROUND OR GROUND CONDUCTOR
⊕	FLEXIBLE CONDUIT CONNECTION AS REQUIRED
⊕	TRANSFORMER
⊕	3/4"x4"x8' PAINTED TELEPHONE BOARD
⊕	BRANCH PANEL
⊕	GROUNDING PER CODE OR 3/4" DIAMETER 10' LONG STAINLESS STEEL GROUND ROD
⊕	WEATHER PROOF
⊕	C.O. CONDUIT ONLY WITH PULL WIRES
+48"	INDICATES MOUNTING HEIGHT OF EQUIPMENT/OUTLET CENTER LINE ABOVE FINISH FLOOR

**PLAN NOTES:**

- E.C. TO REMOVE EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUITS & WIRES TO SOURCE, REFER TO DEMO AREA, SEE ARCHITECTURAL PLAN FOR EXACT LOCATION. TURN OFF BREAKER(S) AND LABEL AS 'SPARE' OR REUSE EXISTING CIRCUITS, IF APPLICABLE.
- MOUNT RECEPTACLE INSIDE CABINET FOR CASH REGISTER, PROVIDE GROUND WIRES.
- RECEPTACLE FOR BOOTH AND LIGHTING & OUTLETS. E.C. TO MAKE ALL FINAL CONNECTIONS.
- NO CONDUIT ATTACHED TO BOOTH.
- E.C. TO REMOVE AND RELOCATE EXISTING HIGHBAY LIGHT FIXTURE AS SHOWN, EXTEND FEEDER TO NEW LOCATION. DO NOT CUT FLEXIBLE WIRING SYSTEM. PROVIDE NEW FLEXIBLE WIRING AS REQUIRED. FIELD VERIFY.

CIRCUIT USE	208 / 120 VOLTS			3 PHASE			4 WIRE			CIRCUIT USE
	225 A CU BUS M.L.O.			SURFACE MOUNT			10000 A.I.C. MIN. SQ-D NOOD			
EXISTING	PHASE (KVA)			BKR.	CKT. CKT.	BKR.	PHASE (KVA)			
SITE PARK LIGHTING	1.48			20/1	1	2	20/1			SPARE
SPARE				20/1	3	4	20/1			SPARE
SPARE				20/1	5	6	20/1			SPARE
SPARE				20/1	7	8	20/1	1.20		HEARING AID WH-4*
SPARE				20/1	9	10	20/1	0.50		HEARING AID BOOTH*
SPARE				20/1	11	12	20/1	0.90		HEARING AID RECEPT*
SPARE				20/1	13	14	20/1	0.80		RECEPTACLE
RECEPTACLE	0.80			20/1	15	16	20/1	0.80		RECEPTACLE
RECEPTACLE		0.80		20/1	17	18	20/1	0.80	0.80	RECEPTACLE
RECEPTACLE	0.80		0.80	20/1	19	20	20/1	0.80	0.80	RECEPTACLE
RECEPTACLE				20/1	21	22	20/1	0.80		RECEPTACLE
RECEPTACLE				20/1	23	24	20/1	0.80	0.80	RECEPTACLE
RECEPTACLE	0.80			20/1	25	26	20/1	0.80	0.80	RECEPTACLE
RECEPTACLE				20/1	27	28	20/1	0.80	0.80	RECEPTACLE
RECEPTACLE			0.80	20/1	29	30	20/1	0.80	0.80	RECEPTACLE
SPARE				20/1	31	32	20/1	0.80		RECEPTACLE
SPARE				20/1	33	34	20/1			SPARE
SPARE				20/1	35	36	30/1		1.18	AD-1
SPARE				20/1	37	38	30/1	1.18		AD-2
CU-1*				15/2	39	40	20/1	0.50		CATV AMPLIFIER
							41	42	20/1	SPARE
TOTAL PHASE A (KVA)	3.08						8.04	4.96		
TOTAL PHASE B (KVA)		2.78					6.18	3.40		
TOTAL PHASE C (KVA)			1.60				6.08	4.48		
TOTAL CONNECTED LOAD							20.3	56	A	
*NEW LOAD. PROVIDE BREAKER AS SHOWN.										

CIRCUIT USE	208 / 120 VOLTS			3 PHASE			5 WIRE			CIRCUIT USE	
	100 A CU BUS W/100/3P MCB			SURFACE MOUNT			10000 A.I.C. MIN. SQ-D NOOD				
EXISTING	PHASE (KVA)			BKR.	CKT. CKT.	BKR.	PHASE (KVA)				
MEMBERSHIP COUNTER	0.36			20/1	1	2	20/1	0.36		MEMBERSHIP COUNTER	
MEMBERSHIP COUNTER		0.36		20/1	3	4	20/1	0.36		MEMBERSHIP COUNTER	
MEMBERSHIP COUNTER			0.36	20/1	5	6	20/1	0.18		OPTICAL RECEPTACLE	
SPARE				20/1	7	8	20/1	0.72		HEARING AID RECEPT*	
RECEIVING COUNTER		1.08		15/1	9	10	20/1			SPARE	
RTV RECEPTACLE				15/1	11	12	20/1			SPARE	
FOOD SERVICE CASH REG	0.50			15/1	13	14	15/1	0.50		LABEL SYSTEM #61	
FOOD SERVICE CASH REG		0.50		15/1	15	16	15/1	0.20		WEAT SCALE #50	
FOOD SERVICE CASH REG			0.50	15/1	17	18	15/1	0.20		DELI PRINTER #69	
FOOD SERVICE CASH REG	0.50			15/1	19	20	20/1	0.36		RECEPT - OFFICE	
SPARE				20/1	21	22	20/1	0.36		RECEPT - OFFICE	
RECEPT - TIRE CENTER			0.36	15/1	23	24	15/1			SPARE	
RECEPT - PHARMACY				15/1	25	26	15/1			SPARE	
ATM MACHINE		0.50		20/1	27	28	20/1	0.50		RECEPT, TIRE CENTER	
RECEPT - PHARMACY			0.36	20/1	29	30	20/1	0.50	0.50	RECEPT, TIRE CENTER	
RECEPT - PHARMACY	0.72			20/1	31	32	100/2	5.00		UPS	
SPARE				15/1	33	34		5.00			
SPARE				15/1	35	36	20/1		0.54	MANAGER'S OFFICE REC.	
SPARE				37	38	20/1				SPARE	
SURGE PROTECTOR	0.10	0.10		20/3	39	40	15/1	0.50		OPTICAL KIOSK RECEPTACLE	
			0.10				41	42	15/1	0.50	PHOTO RECEPTACLE
TOTAL PHASE A (KVA)	2.18						9.12	6.94			
TOTAL PHASE B (KVA)		2.54					9.46	6.92			
TOTAL PHASE C (KVA)			2.40				4.32	1.92			
TOTAL CONNECTED LOAD							22.9	63	A		
*NEW LOAD. PROVIDE BREAKER AS SHOWN.											

**ELECTRICAL DEMOLITION & REMODEL GENERAL NOTES**

ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DEMOLITION AND PHASING PLANS FOR THE SCOPE OF CORRESPONDING ELECTRICAL DEMOLITION WORK.

FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.

REMOVAL OF EXISTING ITEMS SHALL INCLUDE DISCONNECTING AND REMOVING OF THE EXISTING CONDUITS AND WIRING BACK TO THE NEXT ACTIVE OUTLET OR SOURCE. PROVIDE MATCHING BLANK COVER PLATE AS REQUIRED.

REMOVE OR ABANDON ALL UNUSED UNDERGROUND, UNDER FLOOR RACEWAYS. REMOVE WIRES.

REMOVE ALL UNUSED SURFACE RACEWAYS.

RELOCATE EXISTING ITEMS SHALL INCLUDE DISCONNECTING AND EXTENDING EXISTING CONDUITS AND WIRING TO NEW LOCATION, PROVIDE NEW CONNECTION AS REQUIRED.

PROVIDE CUTTING, PATCHING FOR ALL RELATED ELECTRICAL WORK AS REQUIRED.

INFORMATION ON THE EXISTING INSTALLATION HAS BEEN OBTAINED FROM THE BEST SOURCE AVAILABLE BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. PRIOR TO BID, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE. VERIFY ALL SUCH INFORMATION AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.

ALL WORKS SHALL BE PERFORMED TO CHANGE THE EXISTING ELECTRICAL INSTALLATION AS SHOWN. INCLUDE AS PART OF THE CONTRACT ALL RELATED WORKS REQUIRED TO OBTAIN THE INDICATED RESULTS.

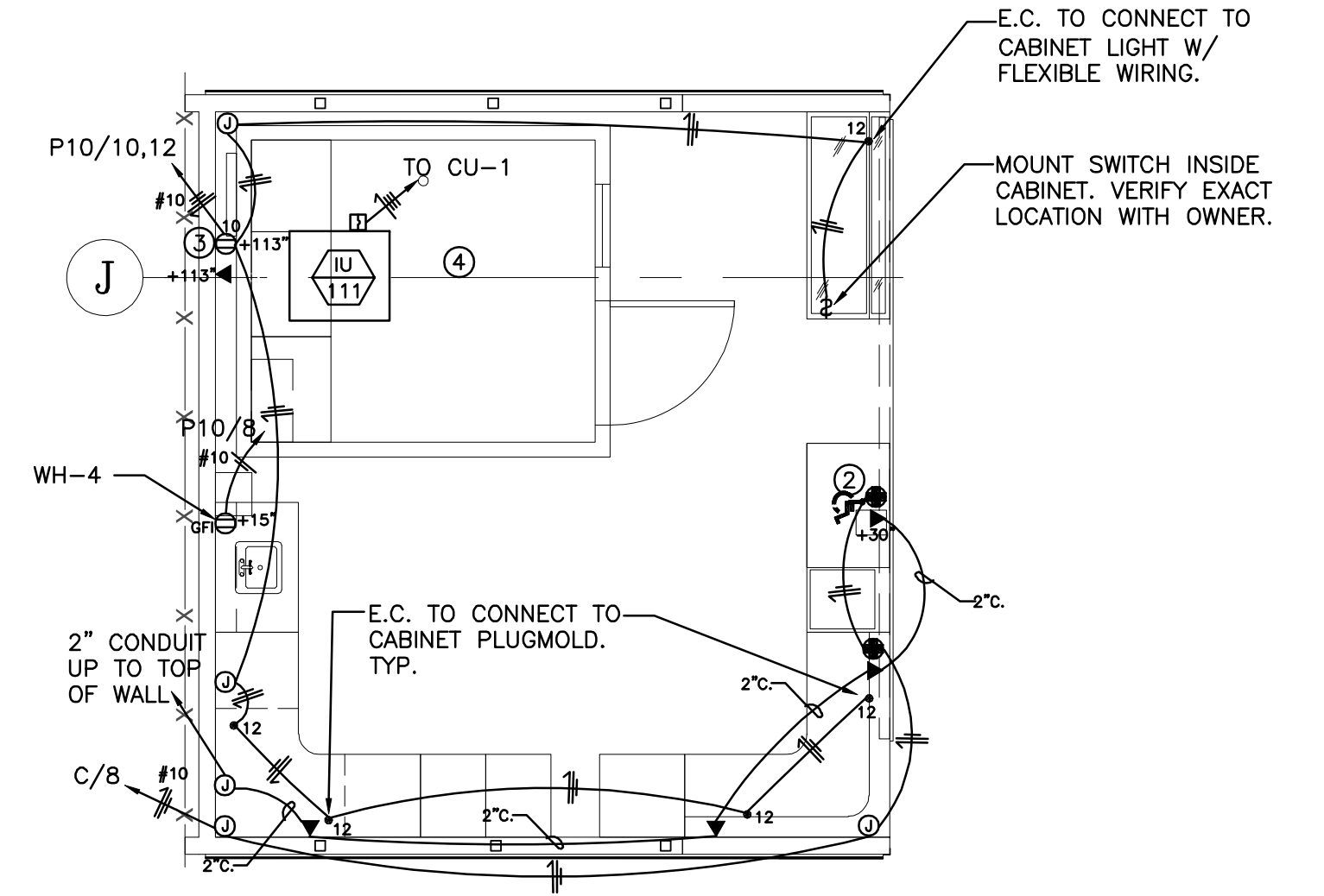
ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND ALL OTHER ELECTRICAL EQUIPMENT AND DEVICES IN THE AREAS AFFECTED BY THE REMODEL SHALL BE REMOVED AND RELOCATED AS REQUIRED. EXTEND ALL CONDUITS AND WIRING.

ALL WORKS ARE TO BE DONE SO AS NOT TO INTERFERE WITH THE WAREHOUSE'S NORMAL OPERATION. ALL WORKS ARE TO BE COORDINATED AND SCHEDULED AS APPROVED BY THE WAREHOUSE MANAGER FOR ELECTRICAL SHUTDOWN, CONTINUITY OF SERVICE, ETC.

COORDINATE AND SCHEDULE WITH OWNER FOR ANY EXISTING ELECTRICAL SERVICE SHUTDOWN, PROVIDE TEMPORARY POWER TO MAINTAIN EXISTING ELECTRICAL SYSTEM FOR WAREHOUSE'S NORMAL OPERATION AS REQUIRED. TEMPORARY POWER SOURCES INCLUDE GENERATOR SET, POWER COMPANY'S TEMPORARY SERVICE HOOKUP, ETC.

PROVIDE METAL SHEET PAN UNDER ALL FREE STANDING ELECTRICAL PANEL.

E.C. TO PROVIDE NEW TYPED INDEX FOR EXISTING PANELS AFFECTED BY THIS REMODEL. TURN 'OFF' ALL SPARE BREAKERS AND PROVIDE 'SPARE' LABEL.



**HEARING CENTER - POWER PLAN**  
SCALE: 1/4" = 1'-0"

PARTIAL FLOOR PLAN, ENLARGED POWER PLAN, PANEL SCHEDULES, LEGEND AND NOTES

PROJECT NO: 22-267  
 ISSUE DATE: AUGUST 17, 2022  
 REVISION DATE: OCTOBER 31, 2022  
 CHECKED: ANT/JGM/HW  
 DRAWN: ANT  
 PERMIT COMMENTS 1

**HEARING CENTER REMODEL**  
 WAREHOUSE #781  
 1130 BROADWAY  
 CHULA VISTA, CA 91911

**T.E., Inc.**  
 860 N. RIVERSIDE DRIVE  
 SUITE #200  
 RENTON, WA 98057  
 PHONE: 425-970-3763  
 FAX: 425-970-3766

**COSTCO WHOLESALE**

**E-1**