

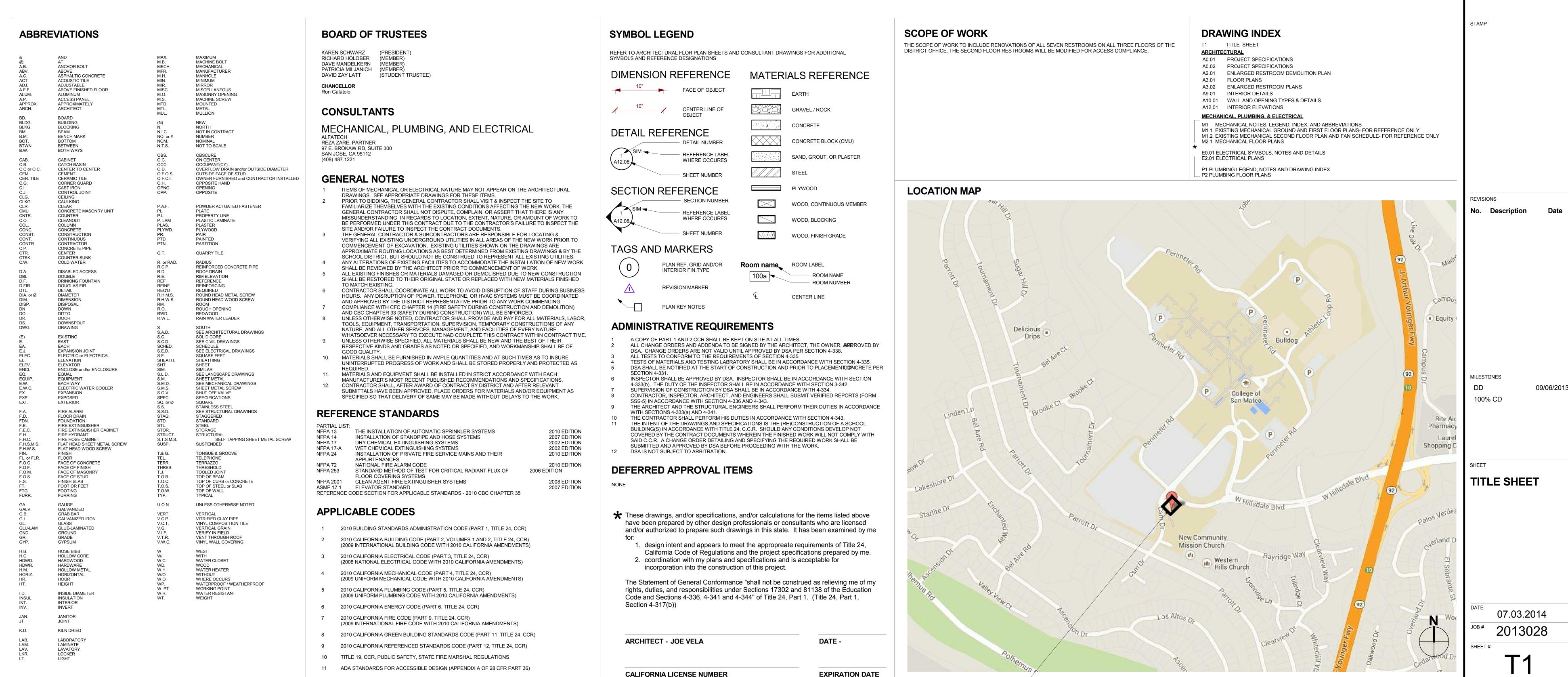
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DISTRICT OFFICE RESTROOM RENOVATION DISTRICT OFFICE RESTROOM RENOVATION

3401 CSM DR, SAN MATEO, CA 94402

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

BID DOCUMENTS



3401 Csm Drive, San Mateo, CA 94402

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<u>Definition</u>: "Cutting and patching" includes cutting into existing construction to provide for the installation or performance of other work and subsequent fitting and patching required to restore surfaces to their original condition. Cutting and patching shall be coordinated with Hazardous Materials Abatement throughout the project.

for testing, to permit alterations to be performed or for other similar purposes. Cutting and patching performed during the manufacture of products, or during the initial fabrication, erection or installation processes is not considered to be "cutting and patching" under this definition. Drilling of holes to install fasteners and similar operations are also not considered to be "cutting and patching".

"Cutting and patching" is performed for coordination of the work, to uncover work for access or inspection, to obtain samples

"Demolition" and "Selective Demolition" are recognized as related-but-separate categories of work, which may or may not require cutting and patching as defined in this section; refer to "Demolition" and "Selective Demolition" sections of Division 2. Refer to other sections of these specifications for specific cutting and patching requirements and limitations application to

Unless otherwise specified applicable requirements of this section apply to mechanical and electrical work. Refer to Division-

21 through Division-28 sections for additional requirements and limitations on cutting and patching of mechanical and electrical work.

QUALITY ASSURANCE

Requirements for Structural Work: Do not cut and patch structural work in a manner that would result in a reduction of loadcarrying capacity or of load-deflection ratio.

Before cutting and patching the following categories of work, obtain the Architect/Engineer's approval to proceed with cutting and patching as described in the procedural proposal for cutting and patching. Structural steel:

Miscellaneous structural metals, including lintels, equipment supports, stair systems and similar categories of work.

Foundation construction, Exterior curtain wall construction, Piping, ductwork, vessels and equipment. Operational and Safety Limitations: Do not cut and patch operational elements or safety related components in a manner that would result in a reduction of their capacity to perform in the manner intended, including energy performance, or that would result in increased maintenance, or decreased operational life or decreased safety.

Before cutting and patching the following elements of work, and similar work elements where directed, obtain the Architect/ Engineer's approval to proceed with cutting and patching as proposed in the proposal for cutting and patching. Primary operational systems and equipment:

Water/moisture/vapor/air/smoke barriers, membranes and flashings. Noise and vibration control elements and systems. Control, communication, conveying, and electrical wiring systems.

List products to be used and firms that will perform work.

Visual Requirements: Do not cut and patch work exposed on the building's exterior or in its occupied spaces, in a manner that would, in the Architect/Engineer's opinion, result in lessening the building's aesthetic qualities. Do not cut and patch work in a manner that would result in substantial visual evidence of cut and patch work. Remove and replace work judged by the Architect/ Engineer to be cut and patched in a visually unsatisfactory manner.

SUBMITTALS:

Procedural Proposal for Cutting and Patching: Where prior approval of cutting and patching is required, submit proposed procedures for this work well in advance of the time work will be performed and request approval to proceed. Include the following information, as applicable, in the submittal.

Describe nature of the work and how it is to be performed, indicating why cutting and patching cannot be avoided. Describe anticipated results of the work in terms of changes to existing work, including structural, operational and visual changes as well as other significant elements.

Give dates when work is expected to be performed. List utilities that will be disturbed or otherwise be affected by work, including those that will be relocated and those that will be out-of-service temporarily. Indicate how long utility service will be disrupted.

Where cutting and patching of structural work involves the addition of reinforcement, submit details and engineering calculations to show how that reinforcement is integrated with original structure to satisfy requirements. Approval by the Architect/Engineer to proceed with cutting and patching work does not waive the Architect/Engineer's right to later require complete removal and replacement of work found to be cut and patched in an unsatisfactory manner.

PART 2 - PRODUCTS MATERIALS:

General: Except as otherwise indicated, or as directed by the Architect/Engineer, use materials for cutting and patching that are identical to existing materials. If identical materials are not available, or cannot be used, use materials that match existing adjacent surfaces to the fullest extent possible with regard to visual effect. Use materials for cutting and patching that will result in equal-or-better performance characteristics.

PART 3 - EXECUTION

INSPECTION:

Before cutting, examine the surfaces to be cut and patched and the conditions under which the work is to be performed. If unsafe or otherwise unsatisfactory conditions are encountered, take corrective action before proceeding with the work. Before the start of cutting work, meet at the work site with all parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict between the various trades. Coordinate layout of the work and resolve potential conflicts before proceeding with the work.

<u>Temporary Support</u>: To prevent failure provide temporary support of work to be cut.

<u>Protection:</u> Protect other work during cutting and patching to prevent damage. Provide protection from adverse weather conditions for that part of the project that may be exposed during cutting and patching operations. Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

Take precautions not to cut existing pipe, conduit or duct serving the building but scheduled to be relocated until provisions have been made to bypass them. PERFORMANCE:

General: Employ skilled workmen to perform cutting and patching work. Except as otherwise indicated or as approved by the Architect/Engineer, proceed with cutting and patching at the earliest feasible time and complete work without delay.

<u>Cutting</u>: Cut the work using methods that are least likely to damage work to be retained or adjoining work. Where possible

review proposed procedures with the original installer; comply with original installer's recommendations. In general, where cutting is required use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut through concrete and masonry using a cutting machine such as a carborundum saw or core drill to insure a neat hole. Cut holes and slots neatly to size required with minimum disturbance of adjacent work. To avoid marring existing finished surfaces, cut or drill from the exposed or finished side into concealed surfaces. Temporarily cover openings when not

Patching: Patch with seams which are durable and as invisible as possible. Comply with specified tolerances for the work. Where feasible, inspect and test patched areas to demonstrate integrity of work.

Restore exposed finishes of patched areas and where necessary extend finish restoration into retained adjoining work in a manner which will eliminate evidence of patching and refinishing.

Where removal of walls or partitions extends one finished area into another finished area, patch and repair floor and / or wall surfaces in the new space to provide an even surface of uniform color and appearance. If necessary to achieve uniform color and appearance, remove existing floor and wall coverings and replace with new materials. Where patch occurs in a smooth painted surface, extend final paint coat over entire unbroken surface containing patch, after

patched area has received prime and base coat. Patch, repair or rehang existing ceilings as necessary to provide an even plane surface of uniform appearance.

<u>Plaster Installation:</u> Comply with manufacturer's instructions and install thickness and coats as indicated. Unless otherwise indicated provide 3-coat work.

Finish gypsum plaster with smooth-troweled finish. Sand lightly to remove trowel marks and arises. Cut, patch, point-up and repair plaster as necessary to accommodate other work and to restore cracks, dents and

imperfections

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

This Section includes administrative and procedural requirements for the following: Salvaging nonhazardous demolition and construction waste. Recycling nonhazardous demolition and construction waste. Disposing of nonhazardous demolition and construction waste.

PART 1 - GENERAL

SUMMARY

Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

PERFORMANCE REQUIREMENTS General: Develop waste management plan that results in end-of-Project rates for salvage/recycling of 60 percent by weight of total waste generated by the Work per City of San Mateo Construction and Demolition Debris Ordinance . At least 25% of diverted material shall come from waste that excludes soil, concrete, asphalt and other Salvage/Recycle Requirements: Owner's goal is to salvage and recycle nonhazardous demolition and construction waste including the following materials:

Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

Demolition Waste: Concrete. Concrete reinforcing stee Plywood and oriented strand board. Wood trim. Structural and miscellaneous steel Rough hardware. Door hardware

Doors and frames.

Acoustical tile and panels.

Windows.

Glazing.

Carpet. Carpet pad.

Equipment.

Gypsum board.

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL (continued)

Plumbing fixtures Piping. Supports and hangers. Valves. Sprinklers. Mechanical equipment.

Copper wiring. Lighting fixtures. Lamps. Ballasts. Electrical devices. Construction Waste

Plastic pails.

Refrigerants.

Electrical condui

Masonry Wood sheet materials Wood trim. Metals. Insulation. Gvpsum board.

Electrical conduit. Packaging: uncontaminated packaging materials:

Cardboard. Plastic sheet and film Polystyrene packaging. Wood crates, pallets, shipping containers

SUBMITTALS Waste Management Plan: Submit electronic copy of plan in PDF format within 30 days of date established for Notice to Proceed. Contractor to note, or highlight specifically manufacturers or suppliers that recover Construction waste for reuse and recycling. Identify in Waste Management Plan, necessary means or locations for manufacturers to recover materials, i.e. lumber, masonry, gypsum board, etc. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit a copy of report.

Include separate reports for demolition and construction waste. Include the following information: Material category. Generation point of waste. Total quantity of waste in tons.

Quantity of waste salvaged, both estimated and actual in tons. Quantity of waste recycled, both estimated and actual in tons. Total quantity of waste recovered (salvaged plus recycled) in tons. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.

Waste Reduction Calculations: Before request for Substantial Completion, submit three copies of calculated end-of- Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling

processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

Landfill Disposal Records: Indicate receipt and acceptance of waste by landfill facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices. Qualification Data: For Waste Management Coordinator and refrigerant recovery technician. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to

EPA regulations. Include name and address of technician and date refrigerant was recovered. Refrigerant Recovery Technician Qualifications: Certified by EPA-approved certification program. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction. Waste Management Conference: Conduct conference at Project site to comply with requirements in Division

Section "Project Management and Coordination." Review methods and procedures related to waste management including, but not limited to, the following: Review and discuss waste management plan including responsibilities of Waste Management Coordinator. Review requirements for documenting quantities of each type of waste and its disposition. Review and finalize procedures for materials separation and verify availability and location of containers and needed to avoid delays.

Review procedures for periodic waste collection and transportation to recycling and disposal facilities.

Review and identify waste management requirements for each trade. Identify special requirements for trades

recover and recycle construction waste back into the manufacturing process. General: Develop plan consisting of waste identification, waste reduction work plan, and cost/revenue

analysis. Include separate sections in plan for demolition and construction waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan. waste generated by the Work. Include estimated quantities and assumptions for estimates. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods

for preparing salvaged materials before incorporation into the Work Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.

Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located.

D. Cost/Revenue Analysis: Indicate total cost of waste disposal as if there was no waste management plan and net additional cost or net savings resulting from implementing waste management plan. Include the following: Total quantity of waste Estimated cost of disposal (cost per unit). Include hauling and tipping fees and cost of collection containers for

each type of waste. Total cost of disposal (with no waste management). Revenue from salvaged materials. Revenue from recycled materials

Savings in hauling and tipping fees by donating materials. Savings in hauling and tipping fees that are avoided. Handling and transportation costs. Include cost of collection containers for each type of waste. Net additional cost or net savings from waste management plan. Forms: Prepare waste management plan on forms included at end of Part 3.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION PLAN IMPLEMENTATION General: Implement waste management plan as approved by Architect. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract. Comply with Division 01 Section "Temporary Facilities and Controls" for operation, termination, and removal requirements. Waste Management Coordinator: Engage a waste management coordinator to be responsible for

implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site. Distribute waste management plan to everyone concerned within three days of submittal return. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and

locations established for salvage, recycling, and disposal Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold. Comply with Division 01 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

Provide adequate coverage and shelter for recycling containers throughout the course of the project to minimize potential damage to materials and avoid run off pollutants.

SALVAGING DEMOLITION WASTE Salvaged Items for Reuse in the Work: Clean salvaged items.

Pack or crate items after cleaning. Identify contents of containers. Store items in a secure area until installation. Protect items from damage during transport and storage.

Install salvaged items to comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make items functional for use indicated. Salvaged Items for Sale: Not permitted on Project site. Doors and Hardware: Brace open end of door frames. Except for removing door closers, leave door hardware

RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL General: Recycle paper and beverage containers used by on-site workers. Recycling Receivers and Processors: The General Contractor shall be responsible for coordinating all recycling receivers and processors for demolition and construction wastes throughout the course of the project. Recycling Incentives: Revenues, savings, rebates, and other incentives received for recycling waste materials

shall accrue to Contractor. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.

Inspect containers and bins for contamination and remove contaminated materials if found. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust. Stockpile materials away from construction area. Do not store within drip line of remaining trees. Store components off the ground and protect from the weather Remove recyclable waste off Owner's property and transport to recycling receiver or processor. RECYCLING DEMOLITION WASTE

Concrete and Concrete Paving: Break up concrete to 4" size and transport to concrete recycling facility. Metals: Separate metals by type. Structural Steel: Stack members according to size, type of member, and length Remove and dispose of bolts, nuts, washers, and other rough hardware. Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location. Remove edge trim and

sort with other metals. Remove and dispose of fasteners. Acoustical Ceiling Panels and Tile: Stack large clean pieces on wood pallets and store in a dry location. Separate suspension system, trim, and other metals from panels and tile and sort with other metals. Carpet: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips. Store clean, dry carpet in a closed container or trailer for a Carpet Reclamation Agency or carpet recycler. Equipment: Drain tanks, piping, and fixtures. Seal openings with caps or plugs. Protect equipment from

exposure to weather. Plumbing Fixtures: Separate by type and size. Piping: Reduce piping to straight lengths and store by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size. Lighting Fixtures: Separate lamps by type and protect from breakage. Electrical Devices: Separate switches, receptacles, switchgear, transformers, meters, panelboards, circuit

breakers, and other devices by type. K. Conduit: Reduce conduit to straight lengths and store by type and size. SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL (continued)

General: Contractor shall coordinate recycling of construction waste with product provider so that to the extent possible scrap materials, drop and clean cut-offs may be recycled through the product manufacturer and re-enter in the manufacturing process. When not possible, construction waste should go through a recycling facility, in lieu of entering the

Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location. Polystyrene Packaging: Separate and bag materials.

Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood (or use for storage of gvp. board noted below). 4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

Gypsum Board: Stack large clean pieces on wood pallets and store in a dry location. Coordinate with gypsum manufacturer to reclaim and recycle unused scraps or drop material so that it may be reused as at manufacturer's plant of origin or other recycling facility. DISPOSAL OF WASTE

General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill acceptable to authorities having jurisdiction. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

Burning: Burning of waste materials is not permitted. Disposal: Transport waste materials off Owner's property and legally dispose of them.

FINAL CLEANING:

SECTION 01 74 23 -FINAL CLEANING

General: Special cleaning requirements for specific units of Work are included in the appropriate Sections of Divisions 2 through 14. General Cleaning during the regular progress of the Work is required by the General Conditions and is included under Section "Temporary Facilities".

<u>Cleaning</u>: Provide final cleaning of the Work at the time indicated. Employ experienced workers or professional cleaners for

final cleaning. Clean each surface or unit of work to the condition expected from a normal, commercial building cleaning and maintenance program. Comply with the manufacturer's instructions for operations. Complete the following cleaning operations before requesting the Architect/Engineer's inspection for Certification of Substantial Completion.

Remove labels which are not required as permanent labels.

Clean plumbing fixtures to a sanitary condition. Clean light fixtures and lamps.

Clean transparent materials, including mirrors and glass in doors and windows, to a polished condition. Remove putty and other substances which are noticeable as vision- obscuring materials. Replace chipped or broken glass and other damaged transparent materials.

Clean exposed exterior and interior hard-surfaced finishes to a dust-free condition, free of dust, stains, films and similar noticeable distracting substances. Restore reflective surfaces to their original reflective condition. Leave concrete floors broom clean. Vacuum carpeted surfaces. Clean completely all exposed, visible roofing. Wipe surfaces of mechanical and electrical equipment clean. Remove excess lubrication and other substances.

Clean the project site, including landscape development areas, of rubbish, litter and other foreign substances. Sweep paved areas to a broom clean condition; remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth even- textured surface.

remainder of the construction period. <u>Testing of Gutters</u>: All newly installed gutters shall be tested for leaks witnessed by the Inspector of Record. <u>Compliance</u>: Comply with safety standards and governing regulations for cleaning operations. Do not burn waste materials at the site. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile or other harmful or

Removal of Protection: Except as otherwise indicated or requested by the Architect/Engineer, remove temporary protection

devices and facilities which were installed during the course of the work to protect previously completed work during the

dangerous materials into drainage systems. Remove waste materials from the site and dispose of in a lawful manner. Where extra materials of value remaining after completion of associated work have become the Owner's property, dispose of these materials to the Owner's best advantage as directed.

PART 1 - GENERAL:

1.01 RELATED DOCUMENTS:

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section. B. Refer to Division 1 for Construction Waste Management and Disposal. 1.02 DESCRIPTION OF WORK:

A. Extent of selective demolition work is indicated on drawings.

Types of Selective Demolition Work: Demolition requires the selective removal and subsequent salvage or offsite

Removal of portions of building structure, as required, to accommodate new construction.

Removal of interior partitions as indicated on drawings. Removal of doors and frames indicated "remove".

SECTION 02 41 13 - SELECTIVE STRUCTURE DEMOLITION

Removal of built-in casework indicated "remove"

Removal of existing windows indicated "remove" Removal and protection of existing fixtures and equipment items indicated "salvage".

7) Removal of fixtures, finishes, appliances, etc., indicated "remove".

Removal Work Specified Elsewhere:

Roofing see Section 07 51 00. Cutting non-structural floors and walls for piping, ducts, and conduit is included with the work of the respective mechanical and electrical Divisions 21 through 28 specification sections.

Cutting holes in roof deck and complete installation of new rooftop equipment is specified in Division 23 sections. Related Work Specified Elsewhere:

Remodeling construction work and patching is included within the respective sections of specifications, including removal of materials for re-use and incorporated into remodeling or new construction. 2) Relocation of pipes, conduits, ducts, other mechanical and electrical work are specified in Divisions 21 through 28. 1.03 SUBMITTALS:

Schedule: Submit schedule indicating proposed methods and sequence of operations for selective demolition work to Owner's Representative for review prior to commencement of work. Include coordination of shut-off, capping, and continuation of utility services as required, together with details for dust and noise control protection.

Provide detailed sequence of demolition and removal work to ensure uninterrupted progress of Owner's on-site operations. Coordinate with Owner's continuing occupation of portions of existing building, with Owner's partial occupancy of

completed new addition, and with Owner's reduced usage during summer months. Coordinate submittal with Division 1 Construction Waste Management and Disposal for construction and demolition

1.04 JOB CONDITIONS: Occupancy: Owner will be continuously occupying areas of the building immediately adjacent to areas of selective demolition. Conduct selective demolition work in manner that will minimize need for disruption of Owner's normal operations. Provide minimum of 72 hours advance notice to Owner of demolition activities which will severely impact Owner's normal

B. <u>Condition of Structures</u>: Owner assumes no responsibility for actual condition of items or structures to be

Owner will remove and salvage selected elements from the area of work prior to start of demolition or during progress of work. Elements so affected will be clearly marked/identified and are to be excluded from work. Conditions existing at time of commencement of contract will be maintained by Owner insofar as practicable. However, variations within structure may occur by Owner's removal and salvage operations prior to start of selective demolition

Partial Demolition and Removal: Items indicated to be removed but of salvable value to Contractor may be removed from structure as work progresses. Transport salvaged items from site as they are removed. Storage or sale of removed items on site will not be permitted.

<u>Protections</u>: Provide temporary barricades and other forms of protection as required to protect Owner's personnel and general public from injury due to selective demolition work. Provide protective measures as required to provide free and safe passage of Owner's personnel and general public

2) Erect temporary covered passageways as required by authorities having jurisdiction. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement, or collapse of structure or

element to be demolished, and adjacent facilities or work to remain. 4) Protect from damage existing finish work that is to remain in place and becomes exposed during demolition operations.

Construct temporary insulated solid dustproof partitions where required to separate areas where noisy or extensive dirt or dust operations are performed. Equip partitions with dustproof doors and security locks as required. 7) Provide temporary weather protection during interval between demolition and removal of existing construction on exterior surfaces, and installation of new construction to insure that no water leakage or damage occurs to structure or interior

8) Remove protections at completion of work. <u>Damages</u>: Promptly repair damages caused to adjacent surfaces by demolition work at no cost to Owner. Restore

Protect floors with suitable coverings when necessary.

damaged finishes to match adjacent undamaged work.

to and from occupied portions of building.

Traffic: Conduct selective demolition operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Explosives: Use of explosives will not be permitted.

demolition operations Do not interrupt existing utilities serving occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, acceptable to governing authorities.

<u>Utility Services</u>: Maintain existing utilities indicated to remain, keep in service, and protect against damage during

Environmental Controls: Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in air to lowest practical level. Comply with governing regulations pertaining to environmental

1) Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution. PART 2 - PRODUCTS (Not Applicable).

PART 3 - EXECUTION 3.01 INSPECTION:

Prior to commencement of selective demolition work, inspect areas in which work will be performed. Photograph existing conditions to structure surfaces, equipment or to surrounding properties which could be misconstrued as damage resulting from selective demolition work; file with Owner's Representative prior to starting work.

<u>Permits:</u> Where applicable, Contractors shall give all notices to governmental agencies, obtain all required permits, arrange for agency inspections and pay all associated fees related to legally mandated environmental protection 3.02 PREPARATION:

Provide interior and exterior shoring, bracing, or support to prevent movement, settlement or collapse of structures to be demolished and adjacent facilities to remain.

Cease operations and notify the Owner's Representative immediately if safety of structure appears to be endangered. Take precautions to support structure until determination is made for continuing operations.

Cover and protect furniture, equipment and fixtures to remain from soiling or damage when demolition work is performed in rooms or areas from which such items have not been removed. Erect and maintain dust-proof partitions and closures as required to prevent spread of dust or fumes to occupied portions of the building.

Where selective demolition occurs immediately adjacent to occupied portions of the building, construct dust-proof partitions of minimum 4" studs, 5/8" drywall (joints taped) on occupied side, 1/2" fire-retardant plywood on demolition side, and fill partition cavity with sound-deadening insulation.

Provide weatherproof closures for exterior openings resulting from demolition work. Locate, identify, stub off and disconnect utility services that are not indicated to remain.

Provide by-pass connections as necessary to maintain continuity of service to occupied areas of building. Provide minimum of 72 hours advance notice to Owner if shut- down of service is necessary during change-over.

SECTION 02 81 00 - DISPOSAL OF LAMPS AND BALLASTS PART 1 - GENERAL

A. Applicable Regulations:

The applicable sections, latest editions and addenda of the following government regulations, codes, industry standards and recommended practices, form a part of this specification. Nothing in these specifications is to be construed as permitting work not conforming to these regulations.

Department of Transportation (DOT) Title 49, Code of Federal Regulations (CFR) Part 173 Subpart J. Environmental Protection Agency (EPA) Title 40, CFR Part 761. Federal Occupational Safety and Health Administration (OSHA) Title 29, CFR 1910 Sections 106, 133,

State Occupational Safety and Health Administration. National Electrical Code (NEC).

All applicable County and City codes, ordinances and regulations. The contractor is cautioned that he is responsible for ascertaining the extent to which these regulations affect the operations resulting from this solicitation and to comply therewith.

Project Description:

The Contractor shall provide all labor, materials, equipment, transportation, documentation and services necessary for the destruction of all PCB ballast's and lamps potentially containing mercury removed from the existing lighting fixtures associated with the project The BASE BID shall include the cost of disposal of the PCB ballast's and lamps as described in this specification.

All disposals shall conform to 40 CFR Part 761. An EPA approved incinerator shall dispose of all PCB-containing material, solid or liquid. Separate the PCB-containing portions of the ballasts from the non-PCB portions. The non-PCB portions shall be processed to reclaim recyclable components such as copper and steel. Ballast's carcasses and lamps potentially containing mercury shall be totally destructed by an EPA approved facility.

Landfill of any PCB or mercury waste is prohibited. C. Contractor Qualifications:

Each bidder shall provide written evidence that, as a major part of this business, the bidder has been engaged in PCB and mercury disposal activities including processing and destruction of PCB ballast's and lamps containing mercury. Related activities shall include transportation, EPA required documentation, servicing and storage of high and low concentrations of PCB fluids and solids, and destruction of PCB carcasses and disposal of lamps potentially containing

Bidder's service personnel shall be, at a minimum, qualified individuals who have completed a formal training program in the handling, processing and safety precautions associated with PCB fluids and mercurv. Each bidder shall submit a reference list of twenty or more customers they have successfully contracted with for PCB and mercury services. The customers' name, address, telephone number and key contact person with the company shall be approved with the bid. 4. The bidder's PCB and mercury destruction facility must have a full commercial operating permit from EPA and shall submit a copy of this permit with the bid.

Containerization and Marking:

All PCB ballast's and hazardous materials, including lamps potentially containing mercury, generated from project activities and clean up operations shall be placed in EPA specified containers. Only approved drums, tippler cans or wood crates conforming to EPA specifications shall be used to containerize non-leaking ballasts and lamps. 2. All containers used shall be properly sealed, marked, labeled and dated.

Transportation to Destruction/Servicing Facilities:

All ballast's and lamps potentiality containing mercury shall be transported to an EPA-approved processing/destruction facility All PCB-containing capacitors and components shall be transported to an EPA-approved incinerator. For the disposal of leaking PCB ballast's and associated waste, the contractor and/or subcontractor and vehicles must be licensed for the transportation and hauling of extremely hazardous wastes. The drivers of these vehicles shall be trained in the laws, rules and regulations governing the transportation of PCB materials. The vehicles must be plainly marked as specified by the U.S. Department of Transportation, EPA, State Department of Health Services, State Highway Patrol and State Department of Transportation.

minimum of:

generated in the course of the work.

G. Insurance: The Contractor shall possess the following minimum insurance and provide certificates from qualified

a. Pollution Liability Insurance - \$5,000,000 per occurrence, \$5,000,000 aggregate and covering all

necessary or reasonable costs or expenses of removing, nullifying, cleaning up, or rendering ineffective any accidental

Comprehensive General Liability - \$5,000,000 combined single limit per occurrence.

Comprehensive Automobile Liability - \$5,000,000 combined single limit per occurrence. Evidence of reliable insurance coverage and assets to fully indemnify against long-term liabilities and/or catastrophic occurrences shall be a part of the evaluation criteria for award of the contract.

The Contractor shall provide the Owner with comprehensive information on all firms to be involved in PCB related work activities as part of this contract prior to commencement of the project. Such information shall include a

Name, address, telephone number, and EPA ID number, State Transporters ID number and Hauler Registration number of the firm(s) responsible for the transportation of PCB solids and fluids, ballast and/or lamp potentially containing mercury sealed containers b. Name, address, telephone number and EPA ID number of the firm(s) responsible for the ultimate disposal/destruction of all PCB articles and any other hazardous waste, including lamps potentially containing mercury

c. Name, address, telephone number and EPA ID number of the firm(s) responsible for the ultimate final destruction of the ballasts and reclamation of recyclable components. The Contractor shall provide the Owner with comprehensive documentation of all work activities upon completion of the work and prior to final payment. Such documentation shall include a minimum of:

a. Type and size of containers, contents, weight or unit of measure, date transported and name, address, telephone number and EPA ID number of processing and/or disposal facility. b. Written certification; i.e., Uniform Hazardous Waste Manifest demonstrating receipt of material at the disposal/incineration facility. Such certification shall be signed by the person authorized by the disposal/incineration facility to accept PCB items for disposal Certificate of Destruction for PCB liquids, solids and ballast carcasses and lamps potentially containing mercury.

(Project Closeout) SECTION 08 31 00 - ACCESS DOORS AND PANELS PART 1 - GENERAL SUBMITTALS

Product Data: For each type of door and frame indicated. Include construction details relative to materials, individual components and profiles, finishes, and fire ratings (if required) for access doors and frames. B. Shop Drawings: Show fabrication and installation details of customized doors and frames. Include plans, elevations, sections, details, and attachments to other Work. QUALITY ASSURANCE Size Variations: Obtain Architect's acceptance of manufacturer's standard-size units, which may vary slightly

from sizes indicated. PART 2 - PRODUCTS MANUFACTURERS Manufacturer: Karp Associates, Inc. (Ceiling & Wall Access)

Hinges: Continuous piano hinge.

Lock: Key-operated cylinder lock.

specified in Division 8 Section "Door Hardware."

Latch: Screwdriver operated cam latch.

Shop Primers: Provide primers that comply with Division 9 Section "Painting." Shop Primer for Ferrous Metal: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements in FS TT-P-664; selected for good resistance to normal atmospheric corrosion, compatibility with finish paint systems indicated, and capability to provide a sound foundation for field-applied topcoats

despite prolonged exposure. ACCESS DOORS AND FRAMES Flush Access Doors and Frames with Exposed Trim: Fabricated from [steel] [stainless-steel] sheet. Locations: [Porcelain-tile] [Gypsum Board] [wall and ceiling] surfaces. Door: Minimum 14 gage, set flush with exposed face flange of frame.

Frame: Minimum 16 gage sheet metal with ¾ inch wide, surface-mounted trim.

FABRICATION General: Provide access door assemblies manufactured as integral units ready for installation. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names. Steel Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish attachment devices and fasteners of type required to secure access panels to types of supports indicated.

Provide mounting holes in frames to attach frames to metal or wood framing in plaster and drywall construction

and to attach masonry anchors in masonry construction. Furnish adjustable metal masonry anchors. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed. For cylinder lock, furnish two keys per lock and key all locks alike. For recessed panel doors, provide access sleeves for each locking device. Furnish plastic grommets and install in holes cut through finish. For doors with latches released by and locks operated by mortise cylinders, prepare access doors for cylinders

coated expanded metal lath and exposed casing bead welded to perimeter of frames.

STEEL FINISHES Shop primed. Comply with SSPC-PA 1 for shop painting. STAINLESS-STEEL FINISHES Remove tool and die marks and stretch lines or blend into finish. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece. Bright, Directional Polish: No. 4 finish.

SECTION 08 83 00 - MIRRORS

DEFINITIONS

SUBMITTALS

Mirror mastic.

Mirror hardware

1201 for Category II materials.

1.6 PROJECT CONDITIONS

levels indicated for final occupancy.

warranty period indicated below:

MANUFACTURERS

Arch Aluminum & Glass Co., Inc.

MISCELLANEOUS MATERIALS

Gardner Glass Products.

Guardian Industries Corp.

silver deterioration at mirrored glass edges.

Gunther Mirror Mastics.

MIRROR HARDWARE

Top and Bottom Trim:

shapes. Coordinate final location with Architect

where fasteners are exposed.

FABRICATION

PART 3 - EXECUTION

FXAMINATION

PRFPARATION

of mirrors and face of mounting surface

Install mastic as follows:

back of mirrors and mounting surface.

back of mirrors and face of mounting surface.

CLEANING AND PROTECTION

SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

Gypsum Board and Related Products:

Flintkote Products, Genstar Building Materials Co.

STEEL PARTITION AND CEILING/SOFFIT FRAMING

Comply with ASTM C 754 for conditions indicated.

Thickness: 5/8 inch, unless otherwise indicated.

Cementitious Backer Units: ANSI A118.9.

Custom Building Products; Wonderboard.

FinPan, Inc.; Util-A-Crete Concrete Backer Board.

Thickness: 1/2 inch, unless otherwise indicated.

High Impact Corner Guards in Stock Room only:

United States Gypsum Co.; DUROCK Cement Board.

Location: Where required for fire-resistance-rated assembly.

Glass-Mat, Water-Resistant Backing Board: ASTM C 1178/C 1178M.

Material: Galvanized or aluminum-coated steel sheet or rolled zinc.

Cornerbead: Use at outside corners, unless otherwise indicated.

Corner guards to be 48 inches high unless otherwise indicated.

Corner Guards shall have continuous aluminum retainer.

Color selection by Architect from manufacturer's full range of colors.

Core: 5/8 inch, regular type and 5/8 inch, Type X at fire rated assemblies.

Products: Subject to compliance with requirements, provide one of the following:

LC-Bead: J-shaped; exposed long flange receives joint compound; use at exposed panel edges.

Z molding: Z shaped, exposed reveal width flange does not receive joint compound; use where indicated

Aluminum: Alloy and temper with not less than the strength and durability properties of ASTM B 221, alloy 6063-T5.

Koroseal Wall Protection Systems., G200 High Impact Corner Guard (2"x2" 90 degrees), .078 thickness extruded from

Finish: Corrosion-resistant primer compatible with joint compound and finish materials specified, unless otherwise

L-Bead: L-shaped; exposed long leg receives joint compound; use where indicated.

Top and bottom caps of injection molded thermoplastic. Color to match corner guards.

Aluminum Trim: Extruded accessories of profiles and dimensions indicated.

mical and stain resistant PVC with the addition of impact modifiers, embossed texture.

3.3 INSTALLATION

and bottom edges of mirrors.

PART 1 - GENERAL

PART 2 - PRODUCTS

SUBMITTALS

PROJECT CONDITIONS

American Gypsum Co.

United States Gypsum Co.

G60, hot-dip galvanized zinc coating.

Long Edges: Tapered.

TRIM ACCESSORIES

Interior Trim: ASTM C 1047

Manufacturer: Fry Reglet Corp.

BACKING PANELS

with support system indicated.

with support system indicated.

Components, General: As follows:

INTERIOR GYPSUM WALLBOARD

Gypsum Wallboard: ASTM C 36.

Domtar Gypsum

G-P Gypsum Corp.

Palmer Products Corporation.

1.7 WARRANTY

PART 2 - PRODUCTS

This Section includes the following types of silvered flat glass mirrors.

Defects include discoloration, black spots, and clouding of the silver film.

Samples: For each type of mirror product required, in the form indicated below:

Mirrors, 12 inches square, including edge treatment on 2 adjoining edges.

Glazing Publications: Comply with the following published recommendations:

Warranty Period: Five years from date of Substantial Completion or manufacture.

Products: Subject to compliance with requirements, provide the following:

glass and glazing terms not otherwise defined in this Section or in referenced standards.

Provide mirrors that will not fail under normal usage. Failure includes glass breakage and deterioration attributable to

Shop Drawings: Include mirror elevations, edge details, mirror hardware, and attachments to other work.

Installer Qualifications: An experienced installer who has completed mirror glazing similar in material, design, and

Source Limitations for Mirror Glazing Accessories: Obtain mirror glazing accessories from one source for each type of

GANA's "Glazing Manual" unless more stringent requirements are indicated. Refer to this publication for definitions of

GANA Mirror Division's "Mirrors, Handle with Extreme Care: Tips for the Professional on the Care and Handling of

Safety Glazing Products: For film-backed mirrors, provide products complying with testing requirements in 16 CFR

Mirror Mastic Compatibility: Mirror mastic products to be compatible with mirror backing film and substrates on which

Environmental Limitations: Do not install mirrors until ambient temperature and humidity conditions are maintained at

Special Warranty: Manufacturer's standard form, made out to Owner and signed by mirror manufacturer agreeing to

Manufacturers: Subject to compliance with requirements, provide mirrors by one of the following, or approved equal:

Edge Sealer: Coating compatible with glass coating and approved by mirror manufacturer for use in protecting against

Top and Bottom Aluminum J-Channels: Aluminum extrusions with a return deep enough to produce a glazing channel t

Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture

Anchors and Inserts: Provide devices as required for mirror hardware installation. Provide toothed or lead-shield

Mirror Sizes: As indicated or shown on the drawings and to suit Project conditions, cut mirrors to final sizes and

Seal edges of mirrors after edge treatment to prevent chemical or atmospheric penetration of glass coating.

recommended in writing by film-backing manufacturer to produce a surface free of bubbles, blisters, and other imperfections.

Examine substrates, over which mirrors are to be mounted, with Installer present, for compliance with installation

Proceed with mirror installation only after unsatisfactory conditions have been corrected and surfaces are dry.

Comply with mastic manufacturer's written installation instructions for preparation of substrates, including coating

Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as

Apply mastic to comply with mastic manufacturer's written instructions for coverage and to allow air circulation between

After mastic is applied, align mirrors and press into place while maintaining a minimum air space of 1/8 inch between

Protect mirrors from breakage and contaminating substances resulting from construction operations.

Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written

Steel Sheet Components: Complying with ASTM C 645 requirements for metal and with ASTM A 653/A 653M,

Panel Size: Provide in maximum lengths and widths available that will minimize joints in each area and correspond

Panel Size: Provide in maximum lengths and widths available that will minimize joints in each area and correspond

Product: Subject to compliance with requirements, provide "Dens-Shield Tile Backer" manufactured by G-P Gypsum

Manufacturers: Subject to compliance with requirements, provide products of the following:

Verify compatibility with and suitability of substrates, including compatibility of mirror mastic with existing finishes or

Use adhesives and film backing compatible with mirror backing paint as certified by mirror manufacturer.

Cutouts: Fabricate cutouts for notches and holes in mirrors, where indicated, without marring visible surfaces. Locate

Require mirror manufacturer to perform edge treatment and sealing in factory immediately after cutting to final sizes.

Film-Backed Safety Mirrors: Apply film backing with pressure-sensitive adhesive coating over mirror backing paint as

expansion-bolt devices for drilled-in-place anchors. Provide galvanized anchors and inserts for applications on inside face of

Mirror Mastic: An adhesive setting compound, produced specifically for setting mirrors and certified by both mirror

replace mirrors that deteriorate as defined in "Definitions" Article, f.o.b. the nearest shipping point to Project site, within specifie

Setting Blocks: Elastomeric material with a Type A Shore durometer hardness of 85, plus or minus 5.

manufacturer and mastic manufacturer as compatible with glass coating and substrates on which mirrors will be installed.

accommodate mirrors of thickness indicated and in lengths required to cover bottom and top edges of each mirror in a single

Manufacturers: Subject to compliance with requirements, provide products by one of the following:

extent to that indicated for this Project; whose work has resulted in mirror installations with a record of successful in-service

Source Limitations for Mirrors: Obtain mirrors from one source for each type of mirror indicated.

Film-backed glass mirrors qualifying as safety glazing.

Warranty: Special warranty specified in this Section.

mirrors are installed. Verify compatibility with mirror manufacturer.

SILVERED FLAT GLASS MIRROR MATERIALS

Clear Glass Mirrors: ASTM C 1503, Mirror Select Quality.

Nominal Thickness: ¼ inch, unless otherwise indicated.

Laurence, C. R. Co., Inc.; CRL Standard "J" Channel.

and size cutouts so they fit closely around penetrations in mirrors.

tolerances, substrate preparation, and other conditions affecting performance.

surfaces with mastic manufacturer's special bond coating where applicable.

Mount mirrors accurately in place in a manner that avoids distorting reflected images.

applicable. Install fasteners so heads do not impose point loads on backs of mirrors.

directly to wall and attach top trim to continuous cleat fastened directly to wall.

Do not permit edges of mirrors to be exposed to standing water.

Samples of reglets and cornerguards with color chart options.

whichever are more stringent.

Gold Bond Building Products Div., National Gypsum Company.

For wall-mounted mirrors, install mirrors with mastic and mirror hardware.

Mirror Edge Treatment: Flat polished edge

PERFORMANCE REQUIREMENTS

defective manufacture, fabrication, and installation

Product Data: For the following:

Mirror trim, 12 inches long.

QUALITY ASSURANCE

PART 1 - GENERAL

www.aedisarchitects.com 387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160

fax: (408)-300-5121

DISTRICT OFFICE RENOVATION

SAN MATEO COUNTY **COMMUNITY COLLEGE** DISTRICT

CONSULTANT

STATE

General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications Provide a minimum air space of 1/8 inch between back of mirrors and mounting surface for air circulation between back

For mirror hardware in the form of a continuous J-channel at bottom and continuous top trim at top, fasten J-channel REVISIONS Where indicated, install mirror hardware in the form of J-channels that are fabricated in single lengths to fit and cover to No. Description Apply barrier coat to mirror backing where approved in writing by manufacturers of mirrors and backing material.

Date

MILESTONES

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SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES (CONTINUED) **MISCELLANEOUS MATERIALS:** 1.7 EXTRA MATERIALS JOINT TREATMENT MATERIALS Tile Cleaner: Product specifically acceptable to manufacturer of tile and grout manufacturer for application indicated and as General: Comply with ASTM C 475. recommended by NTCA, 112 North Alfred St., Alexandria, VA 22134 or Ceramic Tile Institute, 700 N. Virgil Ave., Los Angeles, CA Interior Gypsum Wallboard: Paper. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh. Tile Backing Panels: As recommended by panel manufacturer. PART 3 - EXECUTION Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats INSPECTION: Prefilling: At open joints and damaged surface areas, use setting-type taping compound. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use drying-Examine surfaces to receive tile work and conditions under which tile will be installed. Do not proceed with tile work until surfaces and type, all-purpose compound. conditions comply with requirements indicated in referenced tile installation standard. Fill Coat: For second coat, use drying-type, all-purpose compound. Finish Coat: For third coat, use setting-type, sandable topping compound. **INSTALLATION, GENERAL**: Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound. Joint Compound for Tile Backing Panels: ANSI Tile Installation Standard: Comply with applicable parts of ANSI 108 series of tile installation standards included under "American Water-Resistant Gypsum Backing Board: Use setting-type taping and setting-type, sandable topping compounds. National Standard Specifications for the Installation of Ceramic Tile". Glass-Mat, Water-Resistant Backing Panel: As recommended by manufacturer. Cementitious Backer Units: As recommended by manufacturer. TCA Installation Guidelines: TCA "Handbook for Ceramic Tile Installation"; comply with TCA installation methods indicated or, if not AUXILIARY MATERIALS otherwise indicated, as applicable to installation conditions shown. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written Extend tile work into recesses and under or behind equipment and fixtures, to form a complete covering without interruptions, except as B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to otherwise shown. Terminate work neatly at obstructions, edges and corners without disrupting pattern or joint alignments. Steel Drill Screws: ASTM C 1002, unless otherwise indicated. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick. of tile abutting trim, finish or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures and other For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer. penetrations so that plates, collars, or covers overlap tile. Gypsum Board Nails and Screws: Comply with ASTM C-840. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining <u>Jointing Pattern</u>: Unless otherwise shown, lay tile in grid pattern. Align joints when adjoining tiles on floor, base, walls and trim are thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool. same size. Layout tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Thermal Insulation: As specified in Division 7 Section "Building Insulation." Provide uniform joint widths, unless otherwise shown. Polyethylene Vapor Retarder: As specified in Division 7 Section "Building Insulation." Gypsum Board Nails and Screws: ASTM C-840 For tile mounted in sheets make joints between tile sheets same width as joints within tile sheets so that extent of each sheet is not Resilient Channels: USG RC-1. Concealed Acoustical Sealant: Non-drying, non-hardening, non-skinning, non-staining, non-bleeding, gunnable sealant for concealed applications per ASTM C 919. Expansion Joints: Locate expansion joints and other sealant filled joints, including control, contraction and isolation joints, where indicated, or if not indicated, at spacings and locations recommended in TCA "Handbook for Ceramic Tile Installation" EJ171-03, and 1. approved by Architect. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance. Proceed with Prepare joints and apply sealants to comply with requirements of referenced standards and sealant manufacturer. installation only after unsatisfactory conditions have been corrected. INSTALLING STEEL FRAMING, GENERAL Grout tile to comply with referenced installation standards, using grout materials indicated. Allow minimum of 24 hours after tile is set D. Installation Standards: ASTM C 754, and ASTM C 840 requirements that apply to framing installation. before grouting. Install supplementary framing, blocking, and bracing at terminations in gypsum board assemblies to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Comply with Mix and install proprietary components to comply with grout manufacturer's directions. details indicated and with gypsum board manufacturer's written recommendations or, if none available, with United States Gypsum's "Gypsum Construction Handbook." **FLOOR INSTALLATION METHODS:** Isolate steel framing from building structure at locations indicated to prevent transfer of loading imposed by Porcelain Tile: Install tile to comply with requirements indicated below for setting bed methods, TCA installation methods related to Isolate ceiling assemblies where they abut or are penetrated by building structure. types of subfloor construction, and grout types: Isolate partition framing and wall furring where it abuts structure, except at floor. Install slip-type joints at head of assemblies that avoid axial loading of assembly and laterally support assembly where indicated. Concrete Subfloors, Interior: TCA F112-03 (bonded). Do not bridge building control and expansion joints with steel framing or furring members. Frame both sides of Latex Mortar: ANSI A118.4 Bond Coat: Portland cement paste on plastic bed; or thin-set portland cement on cured bed, ANSI A108.5; at Contractor's 3.3 APPLYING AND FINISHING PANELS, GENERAL Gypsum Board Application and Finishing Standards: ASTM C 840 and GA-216. Comply with CBC Part 2, Chapter Grout: Commercial portland cement, ANSI A118.7 (factory sanded). B. Install sound attenuation blankets before installing gypsum panels, unless blankets are readily installed after **WALL TILE INSTALLATION METHODS:** panels have been installed on one side. Install ceiling board panels across framing to minimize the number of abutting end joints and to avoid abutting end Install types of tile designated for wall application to comply with requirements indicated below for setting bed methods, TCA installation joints in the central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member. methods related to subsurface wall conditions, and grout types: Install gypsum panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place. Gypsum Board, Interior: TCA W243-03 Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum Glass Mesh Mortar Units, Interior: TCA W244-03 board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical Mortar Bed Substrate: TCA W222-03 joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings. _atex Thin-Set Portland Cement Mortar: ANSI A118.4 Attach gypsum panels to steel studs so leading edge or end of each panel is attached to open (unsupported) Grout: Commercial portland cement, ANSI A118.7 (factory sanded). Attach gypsum panels to framing provided at openings and cutouts. **CLEANING AND PROTECTION:** Form control and expansion joints with space between edges of adjoining gypsum panels. Cover both faces of steel stud partition framing with gypsum panels in concealed spaces (above ceilings, etc.), Cleaning: Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter except in chases braced internally. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be Unglazed tile may be cleaned with acid solutions only when permitted by tile and grout manufacturer's printed instructions, but not accomplished with scraps of not less than 8 sq. ft. in area. sooner than 14 days after installation. Protect metal surfaces, cast iron and vitreous plumbing fixtures from effects of acid cleaning. Fit gypsum panels around ducts, pipes, and conduits. Flush surface with clean water before and after cleaning. Where partitions intersect open concrete coffers, concrete joists, and other structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by coffers, joists, and other structural Finished Tile Work: Leave finished installation clean and free of cracked, chipped, broken, unbonded, or otherwise defective tile work. members: allow 1/4- to 3/8-inch- wide joints to install sealant Isolate perimeter of non-load-bearing gypsum board partitions at structural abutments, except floors. Provide 1/4-<u>Protection</u>: When recommended by tile manufacturer, apply a protective-coat of neutral protective cleaner to completed tile walls and to 1/2-inch- wide spaces at these locations, and trim edges with U-bead edge trim where edges of gypsum panels are floors. Protect installed tile work with Kraft paper or other heavy covering during construction period to prevent staining, damage and exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's written recommendations Prohibit foot and wheel traffic from using tiled floors for at least 7 days after grouting is completed. Space screws a maximum of 12 inches o.c. for vertical applications. Space fasteners in panels that are tile substrates a maximum of 8 inches o.c. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces. PANEL APPLICATION METHODS Single-Laver Application EXTRA STOCK On ceilings, apply gypsum panels before wall/partition board application to the greatest extent possible and at right angles to framing, unless otherwise indicated. Deliver stock of maintenance material equal to 2% of each type installed to Owner. Package with protective covering for storage and 4. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing), unless otherwise indicated or identified with appropriate labels. Obtain written verification from Owner. required by fire-resistance-rated assembly, and minimize end joints. Stagger abutting end joints not less than one framing member in alternate courses of board. At stairwells and other high walls, install panels horizontally, unless otherwise indicated or required by fire-On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints **SECTION 09 91 00 - PAINTING** Single-Layer Fastening Methods: Apply gypsum panels to supports with steel drill screws. PART 1 - GENERAL Tile and Brick Backing Panels: 1.1 SUMMARY Cementitious Backer Units: ANSI A108.11, at locations indicated to receive tile. A. This Section includes surface preparation and field painting of exposed exterior and interior items and surfaces. Areas Not Subject to Wetting: Install standard gypsum wallboard panels to produce a flat surface except at other 1.Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and locations indicated to receive water-resistant panels surface treatment specified in other Sections. Where tile or brick veneer backing panels abut other types of panels in the same plane, shim surfaces to produce a B. Paint exposed surfaces, except where these Specifications indicate that the surface or material is not to be uniform plane across panel surfaces. painted or is to remain natural. If an item or a surface is not specifically mentioned, paint the item or surface the INSTALLING TRIM ACCESSORIES same as similar adjacent materials or surfaces. If a color of finish is not indicated, Architect will select from standard General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions. 1. Painting includes, but is not limited to, field painting of exposed bare and covered pipes and ducts Control Joints: Install control joints at locations indicated on Drawings. If not shown, install control joints according (including color coding), flashing and sheet metal, gutters and downspouts, hangers, exposed steel and to ASTM C 840 and in specific locations approved by Architect for visual effect. iron supports, any and all trim, and surfaces of mechanical and electrical equipment that do not have a FINISHING GYPSUM BOARD ASSEMBLIÉS factory-applied final finish. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface Do not paint prefinished items, concealed surfaces, finished metal surfaces, operating parts, and labels. defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint 1. Prefinished items include the following factory-finished components: compound from adjacent surfaces. a. Architectural woodwork Prefill open joints and damaged surface areas. b. Finished mechanical and electrical equipment. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape. 1) Electrical panels, panel covers, switch gear, etc. shall be painted unless otherwise Gypsum Board Finish Levels: Finish panels to levels indicated below, according to ASTM C 840, for locations indicated. c. Light fixtures. Level 3: Embed tape and apply separate first and fill coats of joint compound to tape, fasteners, and trim flanges 2. Concealed surfaces include walls or ceilings in the following generally inaccessible spaces: where indicated. Use in Stock Room, Exit hallway 103, and Janitor Closet. a. Furred areas, Ceiling plenums, Pipe spaces, Duct shafts. Level 4: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim 3. Finished metal surfaces include the following flanges at panel surfaces that will be exposed to view, unless otherwise indicated. Use in Main Space, Fitting Rooms, Hall a. Anodized aluminum, Stainless steel, Chromium plate, Copper, copper alloys. 110, Corridor 107, Office, Lounge, and Light Box Closet. 4. Operating parts include moving parts of operating equipment and the following: Level 5: Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim a. Valve and damper operators, Linkages, Sensing devices, Motor and fan shafts. flanges, and apply skim coat of joint compound over entire surface where indicated. Use at Restrooms. 5. Labels: Do not paint over UL, FMG, or other code-required labels or equipment name, identification, Glass-Mat Gypsum Sheathing Board: Finish according to manufacturer's written instructions for use as exposed performance rating, or nomenclature plates. 1.2 DEFINITIONS Glass-Mat, Water-Resistant Backing Panels: Finish according to manufacturer's written instructions. A. General: Standard coating terms defined in ASTM D 16 apply to this Section. Cementitious Backer Units: Finish according to manufacturer's written instructions. 1.Flat refers to a lusterless or matte finish with a gloss range below 15 when measured at an 85-degree APPLYING TEXTURE FINISHES Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture 2. Eggshell refers to low-sheen finish with a gloss range between 20 and 35 when measured at a 60-degree finishes. Apply primer to surfaces that are clean, dry, and smooth. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture matching 3. Semigloss refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-Architect approved mockup and free of starved spots or other evidence of thin application or of application patterns. degree meter. 4. Full gloss refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree Sand Texture shall be applied to all gypsum board surfaces to be painted. Provide mock up for review and approval by Architect on a 2'x2' gypsum board. Level 4 finish required, minimum. SUBMITTAL S A. Product Data: For each paint system indicated. Include block fillers and primers. SECTION 09 30 36 - PORCELAIN AND CERAMIC TILE . Material List: An inclusive list of required coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number general classification. 2. Manufacturer's Information: Manufacturer's technical information, including label analysis and instructions for handling, storing, and applying each coating material. B. Samples for Verification: For each color and material to be applied, with texture to simulate actual conditions, on <u>Samples for Verification Purposes</u>: Submit the following: representative Samples of the actual substrate 1. Provide stepped Samples, defining each separate coat, including block fillers and primers. Use Samples for each type of tile and for each color and texture required, not less than 24" square, on plywood or hardboard backing and representative colors when preparing Samples for review. Resubmit until required sheen, color, and texture Full size samples for each type of trim, accessory and for each color. 2. Provide a list of materials and applications for each coat of each Sample. Label each Sample for location and application. 3. Submit 4 Samples on the following substrates for Architect's review of color and texture only: a.On 8-1/2 inch by 11 inch heavy cardboard, unless requested on actual substrate by Architect. b. Include manufacturer's product number, sheen, texture and color on reverse side. C. Qualification Data: For Applicator. QUALITY ASSURANCE A. Applicator Qualifications: A firm or individual experienced in applying paints and coatings similar in material, Commercial Portland Cement Grout & Mortars: design, and extent to those indicated for this Project, whose work has resulted in applications with a record of Bostik Construction Products, Hydroment successful in-service performance. B. Source Limitations: Obtain block fillers and primers for each coating system from the same manufacturer as the C. Coordination of Work: Review other sections of these specifications in which prime paints are to be provided to ensure compatibility of total coating system for various substrates. Upon request from other trades, furnishinformation or characteristics of finish materials provided for use, to ensure compatible prime coats are used. Custom Building Products 'Tile Lab' DELIVERY, STORAGE, AND HANDLING A. Deliver materials to Project site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information: Product name or title of material. ANSI Standard for Ceramic Tile: Comply with ANSI A137.1 - 1988 Manufacturer's name. Fed. Spec. number, if applicable Product description (generic classification or binder type). ANSI Standard for Tile Installation Materials: Comply with ANSI standard referenced with installation products and materials Manufacturer's stock number and date of manufacture. indicated. ANSI 118.4 & 118.7 – 1999 and ANSI 136.1-1999. Contents by volume, for pigment and vehicle constituents Thinning instructions. TILE PRODUCTS: Per Finish Schedule Application instructions Color name and numbe <u>Trim Units</u>: Provide tile trim units to match characteristics of adjoining flat tile and to comply with following requirements: VOC content. <u>Size</u>: As indicated, coordinated with sizes and coursing of adjoining flat tile, where applicable. B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F. Maintain storage containers in a clean condition, free of foreign materials and residue. 1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily Base for Thinset Mortar Installations: Coved Base PROJECT CONDITIONS Internal Corners: Field-butted square corners, except use internal cove and cap angle pieces designed to member with stretcher A. Apply waterborne paints only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F. B. Apply solvent-thinned paints only when temperatures of surfaces to be painted and surrounding air are between 45 **SETTING MATERIALS:** and 95 deg F. C. Do not apply paint in snow, rain, fog, or mist; or when relative humidity exceeds 85 percent; or at temperatures less Thin-Set Portland Cement Mortar: Where thin-set portland cement mortar applications are indicated, use the following unless than 5 deg F above the dew point; or to damp or wet surfaces. otherwise required. 1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods. Latex portland cement mortar, ANSI A118.4. One Coat Method: ANSI A108.1, Mortar Bed, Lath and membrane in compliance with TCA W222-95. **GROUTING MATERIALS:** Commercial Portland Cement Grout: Proprietary preblended compound composed of portland cement and additives formulated for the type of tile installed. Provide materials complying with ANSI A118.6 and A118.7 and of color required to match Architect's

PART 2 - PRODUCTS 2.1 MANUFACTURERS A. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles. B. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles: Kelly-Moore Paint Co. (Kelly-Moore). 2. Benjamin Moore Paints (Benjamin Moore) 2.2 PAINT MATERIALS, GENERAL A. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience. B. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable 1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed Colors: Match Architect's samples or as selected by Architect from manufacturer's full range. D. Federal Specifications establish minimum acceptable quality for paint materials. Provide written certification from paint manufacturer that materials provided meet or exceed these minimums. E. Lead content in pigment, if any, is limited to contain not more than 0.5% lead, as lead metal based on the total non-volatile (dry-film) of paint weight. 1. This limitation is extended to interior surfaces and those exterior surfaces, such as stairs, decks, porches, railings, windows and doors which are readily accessible to children under seven years of age. INTERIOR PRIMERS Interior Gypsum Board Primer: Factory-formulated latex-based primer for interior application. Kelly-Moore; 971 Acry-Plex Interior PVA Primer/Sealer Low Odor/Low VOC Formula: Applied at a dry film thickness of 1.5 - 2.0 mils per coat Interior Ferrous-Metal Primer: Factory-formulated quick-drying rust-inhibitive alkyd-based metal primer. Kelly-Moore; 1711 Kel-Guard Alkyd White Rust-Preventative Primer: Applied at a dry film thickness of 1.5 – 2.0 mils Interior Zinc-Coated Metal Primer: Factory-formulated galvanized metal primer. Kelly-Moore; 1725 Acry-Shield 100% Acrylic Metal Primer: Applied at a dry film thickness of 1.5 – 2.0 mils per coat INTERIOR FINISH COATS Interior Semi-gloss Acrylic Enamel: Factory-formulated semigloss acrylic-latex enamel for interior application. KELLY-MOORE; 1685 + DURA-POXY SEMI-GLOSS ACRYLIC ENAMEL: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 1.5 mils. PART 3 - EXECUTION EXAMINATION Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for paint Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers. Notify Architect about anticipated problems when using the materials specified over substrates primed by others. PREPARATION General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could impair bond of the various coatings. Remove oil and grease before cleaning. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified. Provide barrier coats over incompatible primers or remove and reprime. Cementitious Materials: Prepare concrete, concrete unit masonry, cement plaster, and mineral-fiber-reinforced cement panel surfaces to be painted. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation. Use abrasive blast-cleaning methods if recommended by paint manufacturer. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint surfaces if 1.1 moisture content exceeds that permitted in manufacturer's written instructions. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand surfaces exposed to view smooth and dust off. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer before applying primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood Prime, stain, or seal wood to be painted immediately on delivery. Prime edges, ends, faces, undersides, and back sides of wood, including cabinets, counters, cases, and paneling. If transparent finish is required, backprime with spar varnish. Backprime paneling on interior partitions where masonry, plaster, or other wet wall construction occurs on back side. Seal tops, bottoms, and cutouts of unprimed wood doors with a heavy coat of varnish or sealer immediately on Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with SSPC's recommendations Blast steel surfaces clean as recommended by paint system manufacturer and according to SSPC-SP 6/NACE No. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming. Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by paint manufacturer, and touch up with same primer as the shop coat. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical Material Preparation: Mix and prepare paint materials according to manufacturer's written instructions. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using. Use only thinners approved by paint manufacturer and only within recommended limits. Tinting: Tint each undercoat a lighter shade to simplify identification of each coat when multiple coats of same material are applied. Tint undercoats to match the color of the finish coat, but provide sufficient differences in shade of undercoats to distinguish each separate coat. APPLICATION General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied. Paint colors, surface treatments, and finishes are indicated in the paint schedules. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film. Provide finish coats that are compatible with primers used. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles, convector covers, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles. Paint back sides of access panels and removable or hinged covers to match exposed surfaces. Finish exterior doors on tops, bottoms, and side edges the same as exterior faces. Where indicated, finish interior of mill built wall and base cabinets and similar field-finished casework to match Sand lightly between each succeeding enamel or varnish coat. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. The number of coats and film thickness required are the same regardless of application method. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer. If sanding is required to produce a smooth, even surface according to manufacturer's written instructions, sand between applications. Omit primer over metal surfaces that have been shop primed and touchup painted. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure, and until application of another coat of paint does not cause undercoat to lift or lose adhesion. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as recommended by manufacturer for material and texture required Spray Equipment: Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate to achieve dry film thickness indicated. Provide total dry film thickness of the entire system as recommended by manufacturer Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and occupied spaces. Mechanical items to be painted include, but are not limited to, the following: Uninsulated metal piping. Uninsulated plastic piping Pipe hangers and supports. Tanks that do not have factory-applied final finishes. Visible portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets. Exposed ducts, equipment, and pipe insulation having "all-service jacket" or other paintable jacket material. Mechanical equipment that is indicated to have a factory-primed finish for field painting. Electrical items to be painted include, but are not limited to, the following: Switchgear. Panelboards Electrical equipment that is indicated to have a factory-primed finish for field painting. Exposed Conduits Block Fillers: Apply block fillers to concrete masonry block at a rate to ensure complete coverage with pores filled.

(Project Close-Out Item)

A. Furnish extra paint materials from the same production run as the materials applied and in the quantities

extra materials to Owner.

of each material and color applied.

2. Obtain written verification of delivery from Owner.

described below. Package with protective covering for storage and identify with labels describing contents. Deliver

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1. Quantity: Furnish Owner with an additional 3 percent, but not less than 1 gal. or 1 case, as appropriate,
                                                                                                                    J. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of
                                                                                                                     uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags,
                                                                                                                    ropiness, or other surface imperfections will not be acceptable.
                                                                                                                   K. Transparent (Clear) Finishes: Use multiple coats to produce a glass-smooth surface film of even luster. Provide
                                                                                                                    a finish free of laps, runs, cloudiness, color irregularity, brush marks, orange peel, nail holes, or other surface
                                                                                                                    imperfections.
                                                                                                                            1.Provide satin finish for final coats.
                                                                                                                     L. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling,
                                                                                                                    such as laps, irregularity in texture, skid marks, or other surface imperfections.
                                                                                                                   M. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work
                                                                                                                    not complying with requirements.
                                                                                                                   CLEANING
                                                                                                                    A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials
                                                                                                                    from Project site.
                                                                                                                             1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing
                                                                                                                            and scraping without scratching or damaging adjacent finished surfaces.
                                                                                                                   A. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by
                                                                                                                    cleaning, repairing or replacing, and repainting, as approved by Architect.
                                                                                                                   B. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove
                                                                                                                    temporary protective wrappings provided by others to protect their work.

    After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

                                                                                                                             Comply with procedures specified in PDCA P1.
                                                                                                                   INTERIOR PAINT SCHEDULE
                                                                                                                    A. Concrete (Other Than Concrete Unit Masonry): Provide the following paint systems over interior concrete
                                                                                                                    substrates:
                                                                                                                            1.Flat Acrylic Finish: Two finish coats over a primer.
                                                                                                                                     a. Primer: Interior concrete and masonry primer.
                                                                                                                                     b. Finish Coats: Interior flat acrylic paint.
                                                                                                                   B. Gypsum Board: Provide the following finish systems over interior gypsum board surfaces:
                                                                                                                             1.Flat Acrylic Finish: Three finish coats over a primer.
                                                                                                                                      a Primer: Interior gypsum board primer
                                                                                                                                     b. Finish Coats: Interior flat acrylic paint.
                                                                                                                            2. Low-Luster Acrylic-Enamel Finish: Three finish coats over a primer.
                                                                                                                                      a. Primer: Interior gypsum board primer.
                                                                                                                                     b. Finish Coats: Interior low-luster acrylic enamel.
                                                                                                                             3. Semigloss Acrylic-Enamel Finish: Three finish coats over a primer.
                                                                                                                                      a. Primer: Interior gypsum board primer.

    b. Finish Coats: Interior semigloss acrylic enamel

                                                                                                                   C. Wood and Hardboard: Provide the following paint finish systems over new interior wood surfaces:
                                                                                                                            1. Low-Luster Acrylic-Enamel Finish: Three finish coats over a primer.
                                                                                                                                      a. Primer: Interior wood primer for acrylic-enamel and semigloss alkyd-enamel finishes.
                                                                                                                                     b. Finish Coats: Interior low-luster acrylic enamel.
                                                                                                                             2. Semigloss Acrylic-Enamel Finish: Three finish coats over a wood undercoater.
                                                                                                                                     a. Primer: Interior wood primer for acrylic-enamel and semigloss alkyd-enamel finishes.

 b. Finish Coats: Interior semigloss acrylic enamel.

                                                                                                                   D. Ferrous Metal: Provide the following finish systems over ferrous metal:
                                                                                                                            1. Low-Luster Acrylic-Enamel Finish: Two finish coats over a primer.
                                                                                                                                     a. Primer: Interior ferrous-metal primer.

 b. Finish Coats: Interior low-luster acrylic enamel.

                                                                                                                             2. Semigloss Acrylic-Enamel Finish: Two finish coats over a primer.
                                                                                                                                     a. Primer: Interior ferrous-metal primer.
                                                                                                                                     b. Finish Coats: Interior semigloss acrylic enamel.
                                                                                                                    E. All-Service Jacket over Insulation: Provide the following finish system on cotton or canvas insulation covering:
                                                                                                                             1. Flat Acrylic Finish: Two finish coats. Add fungicidal agent to render fabric mildew proof.
                                                                                                                                     a. Finish Coats: Interior flat latex-emulsion size
                                                                                                                  INTERIOR STAIN AND NATURAL-FINISH WOODWORK SCHEDULE
                                                                                                                   A. Stained Woodwork: Provide the following stained finishes over new interior woodwork:
                                                                                                                             1. Waterborne Stain Satin-Varnish Finish: Three finish coats of waterborne clear satin varnish over a
                                                                                                                             sealer coat and waterborne interior wood stain. Wipe wood filler before applying stain.
                                                                                                                                     a. Filler Coat: Open-grain wood filler.
                                                                                                                                      b. Stain Coat: Interior wood stain.
                                                                                                                                      c. Sealer Coat: Clear sanding sealer.
                                                                                                                                     d. Finish Coats: Interior waterborne clear satin varnish.
                                                                                                                   B. Natural-Finish Woodwork: Provide the following natural finishes over new interior woodwork:
                                                                                                                             1. Waterborne Satin-Varnish Finish: Three finish coats of waterborne clear satin varnish over a sanding
                                                                                                                            sealer. Wipe wood filler before applying stain.
                                                                                                                                      a. Sealer Coat: Clear sanding sealer.
                                                                                                                                     b. Finish Coats: Interior waterborne clear satin varnish.
                                                                                                            SECTION 10 14 00 - SIGNAGE
                                                                                                          PART 1 - GENERAL
                                                                                                                            This Section includes the following
                                                                                                                                     Panel signs.
                                                                                                                                      Signage accessories.
                                                                                                                                      Cast Aluminum Letter Signage
                                                                                                                                     Exterior signage
                                                                                                           1.2 SUBMITTALS
                                                                                                                   A. Product Data: Include construction details, material descriptions, dimensions of individual components and
                                                                                                                     B. Shop Drawings: Include plans, elevations, and large-scale sections of typical members and other components.
                                                                                                                    Show mounting methods, grounds, mounting heights, layout, spacing, reinforcement, accessories, and installation
                                                                                                                             1. Provide message list for each sign, including large-scale details of wording, lettering, artwork, and braille
                                                                                                                             2. Wiring Diagrams: For signs with illuminated characters.
                                                                                                                        Samples for Initial Selection: For each type of sign material indicated that involves color selection.
                                                                                                                     D. Samples for Verification: For each type of sign, include the following Samples to verify color selected:

    Panel Signs: Full-size Samples of each type of sign required.

                                                                                                                             2. Dimensional Characters: Full-size Samples of each type of dimensional character (letter and number)
                                                                                                                             required. Show character style, material, finish, and method of attachment.
                                                                                                                            3. Casting: Show representative texture, character style, spacing, finish, and method of attachment.
                                                                                                                             4. Approved samples will not be returned for installation into Project.
                                                                                                                    F Qualification Data: For Installer
                                                                                                                     F. Maintenance Data: For signage cleaning and maintenance requirements to include in maintenance manuals.
                                                                                                                            (Project Close-Out Item)
                                                                                                                   QUALITY ASSURANCE
                                                                                                                   A. Installer Qualifications: An employer of workers trained and approved by signage manufacturer.
                                                                                                                    B. Source Limitations: Obtain each sign type through one source from a single manufacturer.
                                                                                                                     C. Regulatory Requirements: Comply with the Americans with Disabilities Act (ADA); CAC, Title 24, 2007 CBC
                                                                                                                    Chapters 10 & 11B and with code provisions as adopted by authorities having jurisdiction.
                                                                                                                             1. Interior Code Signage: Provide signage as required by accessibility regulations and requirements of
                                                                                                                             authorities having jurisdiction. These include, but are not limited to, the following:
                                                                                                                                      a. Illuminated Exit Signs: Refer to Division 26.
                                                                                                                                     b. Fire Doors.
                                                                                                                                     c. Room Capacity.

    d. Signs for Accessible Spaces

                                                                                                                                      e. Room Identification Signs.
                                                                                                                                     f. Toilet Room Signs.
                                                                                                                                      g. Tactile Exit Signs.
                                                                                                                   A. Field Measurements: Where sizes of signs are determined by dimensions of surfaces on which they are
                                                                                                                     installed, verify dimensions by field measurement before fabrication and indicate measurements on Shop Drawings.
                                                                                                                   A. For signs supported by or anchored to permanent construction, advise installers of anchorage devices about
                                                                                                                     specific requirements for placement of anchorage devices and similar items to be used for attaching signs.
                                                                                                           PART 2 - PRODUCTS
                                                                                                                  MANUFACTURERS
                                                                                                                   A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
                                                                                                                              1. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers
                                                                                                                   PANEL SIGNS
                                                                                                                   A. General: Provide panel signs that comply with requirements indicated for materials, thicknesses, finishes,
                                                                                                                    colors, designs, shapes, sizes, and details of construction.
                                                                                                                              1. Produce smooth panel sign surfaces constructed to remain flat under installed conditions within
                                                                                                                             tolerance of plus or minus 1/32 inch measured diagonally.
                                                                                                                    B. Manufacturers:
                                                                                                                              1. Garnet Sign Studio (San Francisco, CA)
                                                                                                                             2. Classic Signs & Awards (Concord, CA)
                                                                                                                              3. Designer Sign Systems (San Jose, CA)
                                                                                                                             4. VKK Signs (San Francisco, CA)
                                                                                                                    C. Plastic Laminate: Provide high-pressure laminate engraving stock with face and core plies in contrasting colors
                                                                                                                    as selected by Architect from manufacturer's full range.
                                                                                                                   D. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer
                                                                                                                     and finisher for type of use and finish indicated, and with not less than the strength and durability properties of
                                                                                                                    E. Frames: Fabricate frames to profile indicated; comply with the following requirements for materials and corner
                                                                                                                              1. Material: Aluminum, extruded or cast.
                                                                                                                            2. Corner Condition: Rounded to radius of 3/8 inch.
                                                                                                                     F. Laminated Panels: Permanently laminate face panels to backing sheets of material; use manufacturer's
                                                                                                                    standard process.
                                                                                                                     G. Graphic Content and Style: Provide sign copy that complies with requirements indicated on Drawings for size.
                                                                                                                     style, spacing, content, mounting height and location, material, finishes, and colors of signage. Vector files will be
                                                                                                                     provided for 'MUJI', 'Fitting room,' and 'Staff only' signage.
                                                                                                                     H. Tactile and Braille Copy: Manufacturer's standard process for producing copy complying with ADA Accessibility
                                                                                                                     Guidelines and ICC/ANSI A117.1. Text shall be accompanied by California Contracted Grade 2 braille. Produce
                                                                                                                    precisely formed characters with domed cut edges free from burrs and cut marks.

    Panel Material: Opaque acrylic sheet.

                                                                                                                             2. Raised-Copy Thickness: Not less than 1/32 inch
                                                                                                                            3. Dots shall be 1/10 inch on centers in each cell with 2/10 inch space between cells.
                                                                                                                    I. Engraved Copy: Machine engrave letters, numbers, symbols, and other graphic devices into panel sign on face
                                                                                                                     indicated to produce precisely formed copy, incised to uniform depth.
                                                                                                                             1. Engraved Plastic Laminate: Engrave through exposed face ply of plastic-laminate sheet to expose
                                                                                                                            contrasting core ply. Sign inserts shall be routed form Rowmark "Ultramattes" reverse engravable laminate
                                                                                                                             acrylic plastic, colors to be selected from Rowmark's standard color chart. Letters, numbers and symbols
                                                                                                                            shall be either laser cut or machine profile cut from Rowmark "ADA Alternative Appliqué" material and
                                                                                                                             applied to the surface using 3M 467MP Hi Performance Adhesive Sheeting.
                                                                                                           2.3 PANEL SIGN TYPES
                                                                                                                   A. Room Signs & Identification Signage:
                                                                                                                              . Material: Plastic laminate.
                                                                                                                             2. Perimeter: Aluminum framed.
                                                                                                                              Copy: Tactile and braille.
                                                                                                                             Character Style: Univers 55.
                                                                                                                             5. Text: As indicated.
                                                                                                                            6. Message: Fixed.
                                                                                                                                     a. Sign: Room No: 4 inch by 5 inch aluminum frame.
                                                                                                                                     b. Sign: Room name: 4 inch by 10 inch aluminum frame unless legend require a longer frame.
                                                                                                                                     c. Character: Minimum 1-inch high characters. Centered on background and centered on
                                                                                                                                      aluminum frame.
                                                                                                                                     a. Frame: Aluminum.
                                                                                                                                     b. Character: White.
                                                                                                                                      c. Background: As selected by Architect from manufacturer's full range.
                                                                                                                            Room Capacity:

    Material: Plastic laminate.

                                                                                                                             2. Perimeter: Framed.
                                                                                                                             3. Copy: Engraved
                                                                                                                             4. Character Style: Univers 55.
                                                                                                                            5. Text: Maximum occupancy load: As indicated on the Drawings.
                                                                                                                             6. Message: Fixed.
                                                                                                                             7. Sizes:
                                                                                                                                     a. Sign: Comply with Section 1004.3, 2007 C.B.C.
                                                                                                                                    b. Character: Comply with Section 1117B.5, 2007 C.B.C.
                                                                                                                                     a. Frame: Auminum
                                                                                                                                      b. Character: White
                                                                                                                                     c. Background: As selected by Architect from manufacturer's full range.
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I. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by manufacturer, to material that

is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed

burn-through or other defects due to insufficient sealing.

surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no

Toilet Room Signs: Material: Cast-acrylic sheet, ¼ inch thick. Perimeter: Unframed at door mounted signs. Aluminum framed at ADA signs. Copy: Raised. (Grade 2 Braille) Character Style: Univers 55. Text: According to requirements in the ADA or of authorities having jurisdiction, whichever are more stringent. Message: Fixed. "Men" – Equilateral triangle, 12 inches on a side. Door mounted. "Women" – Circle, 12 inches diameter. Door mounted. "Unisex": Equilateral triangle superimposed over a 12 inch circle. www.aedisarchitects.com ADA signage: 4 inches by 6 inches or 10 inches by 12 inches. Mounted at plus 5 feet, on wall, on latch side of door. Character: Minimum 1-inch high characters. Grade 2 Braille at accessible facilities. Frame at ADA signage: Aluminum. Character: Contrasting color to door as selected by Architect. Background: Contrasting color to door as selected by Architect. Symbols of Accessibility: Provide 6-inch by 6 inch by 1/4 inch reverse silk screen international symbol of accessibility in white on blue background. Provide aluminum frame. 2.4 ACCESSORIES Vinyl Film: Provide opaque nonreflective (interior) and reflective (exterior) vinyl film, 0.0035-inch minimum thickness, with PROJECT pressure-sensitive adhesive backing suitable for both exterior and interior applications. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work. RESTROOM 2.5 CAST ALUMINUM LETTER SIGNAGE Provide cast aluminum letter signage in clear anodized aluminum finish as indicated on Interior Elevation drawings. RENOVATION Provide shop drawings and material samples not less than 6"x6" showing signage construction, mounting and anchorage method, and material color and/or paint finish for Architect's approval prior to fabrication. 2.6 EXTERIOR SIGNAGE A. Provide signage as indicated on Exterior Elevation drawings including required Aluminum tube supports. Provide shop drawings and material samples not less than 6"x6" showing signage construction, mounting and anchorage FINISHES, GENERAL Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. B. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved Samples and are assembled or installed to minimize contrast. 2.8 ALUMINUM FINISHES A. Clear Anodic Finish: Manufacturer's standard clear anodic coating, 0.018 mm or thicker, over a satin (directionally textured) or polished (buffed), as indicated, mechanical finish. PART 3 - EXECUTION 3.1 EXAMINATION A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation DISTRICT tolerances and other conditions affecting performance of work. B. Verify that items, including anchor inserts, and electrical power provided under other sections of Work are sized and located to accommodate signs. CONSULTANT Examine supporting members to ensure that surfaces are at elevations indicated or required to comply with authorities having jurisdiction and are free from dirt and other deleterious matter. Proceed with installation only after unsatisfactory conditions have been corrected. 3.2 INSTALLATION A. General: Locate signs and accessories where indicated on drawings, using mounting methods of types described and in compliance with manufacturer's written instructions unless otherwise indicated. Install signs level, plumb, and at heights indicated, with sign surfaces free from distortion and other defects in appearance. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls, on the right side if possible. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door. Wall-Mounted Panel Signs: Attach panel signs to wall surfaces using methods indicated below: Shim Plates: Provide 1/8-inch- thick shims as required for level mounting, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other mounting methods are not practicable. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach panel signs to plate using method specified above. 2. Non-Exposed Mechanical Fasteners: Use nonremovable mechanical fasteners placed through predrilled holes in aluminum frames. Attach signs with fasteners and anchors suitable for secure attachment to substrate as recommended in writing by sign manufacturer 3.3 CLEANING AND PROTECTION A. After installation, clean soiled sign surfaces according to manufacturer's written instructions. Protect signs from damage until acceptance by Owner. STAMP STATE REVISIONS No. Description MILESTONES DD 100% CD

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DISTRICT OFFICE

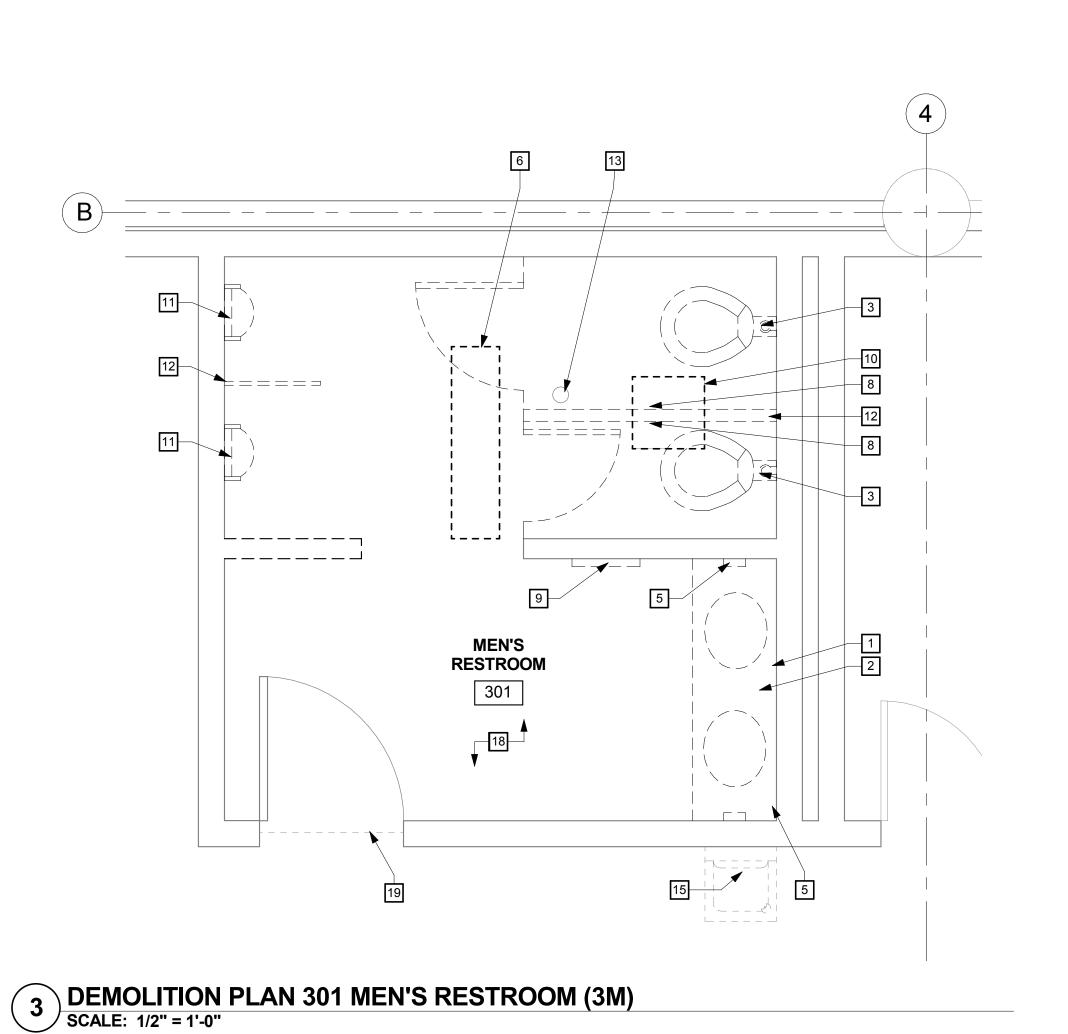
SAN MATEO COUNTY COMMUNITY COLLEGE

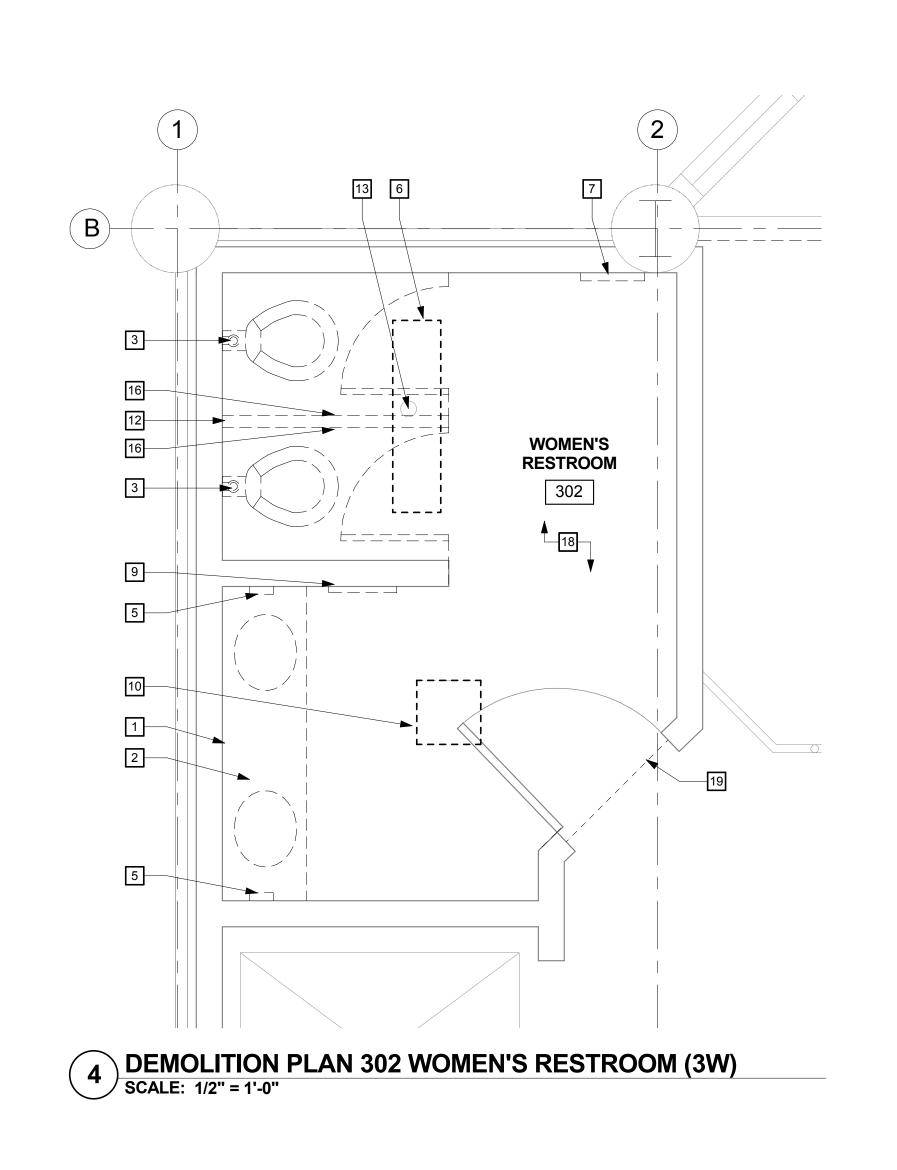
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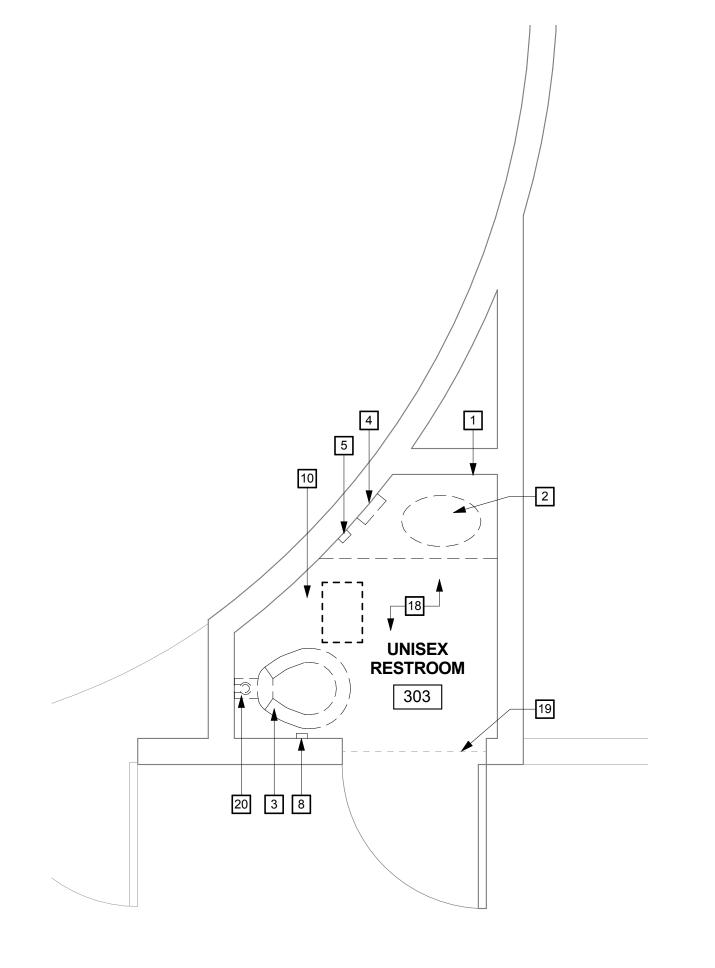
09/06/2013

05/27/2014

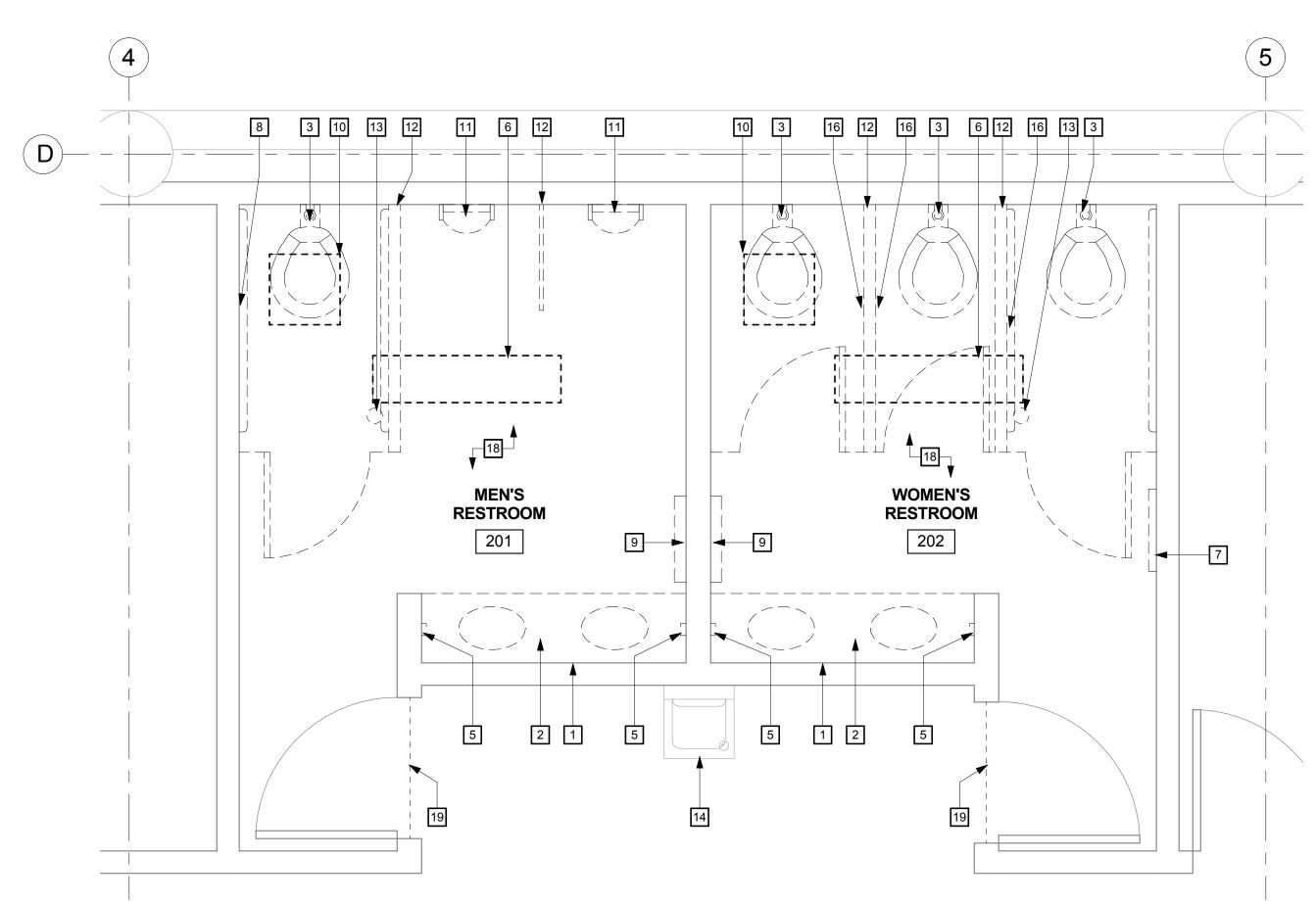
07.03.2014

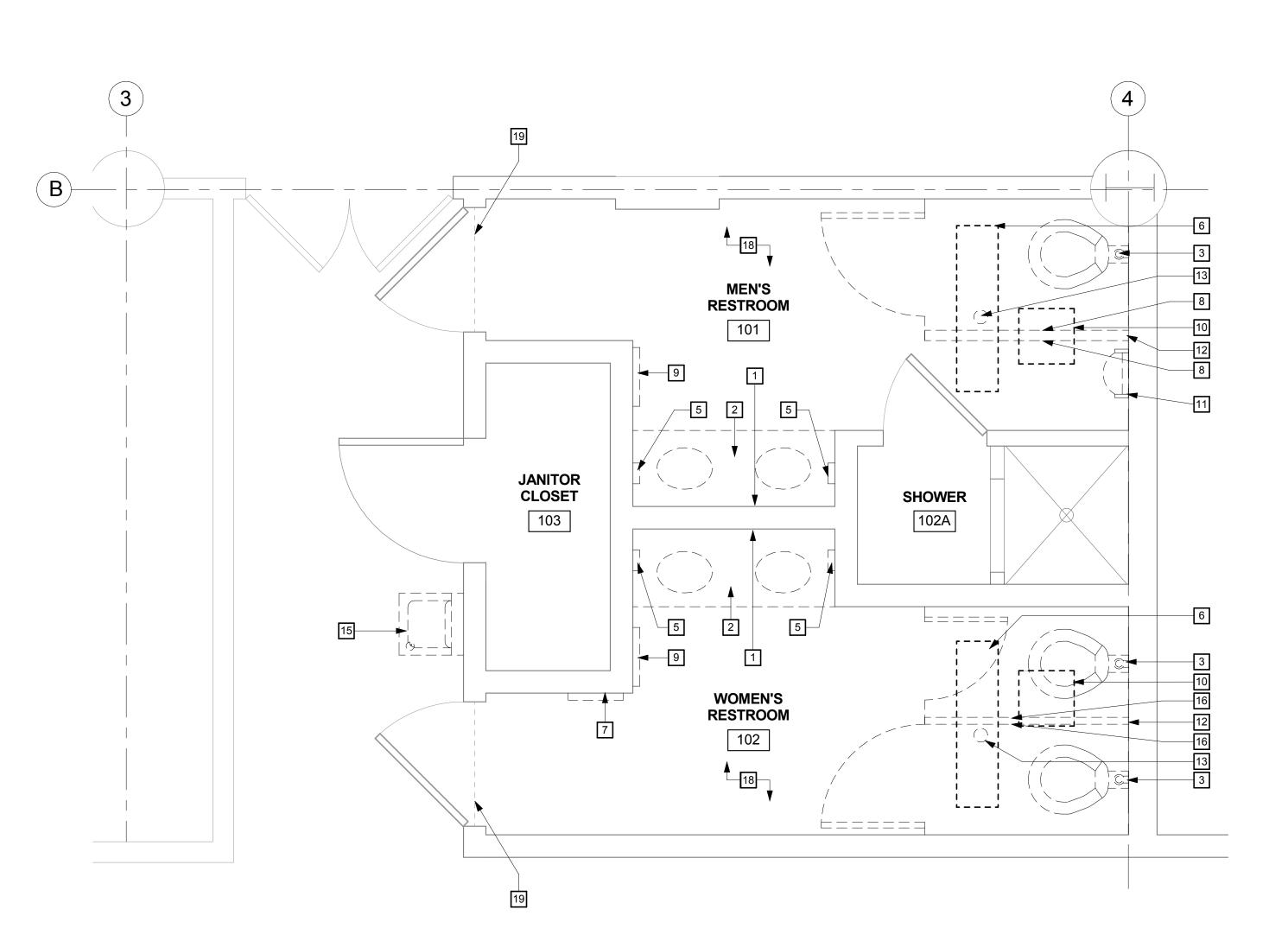






5 DEMOLITION PLAN 303 UNISEX RESTROOM (3U) SCALE: 1/2" = 1'-0"





DEMOLITION PLAN 101 & 102 RESTROOMS (1M & 1W)SCALE: 1/2" = 1'-0"

GENERAL SHEET NOTES

- ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION WORK.
- VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING
- ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON
- REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT ON PARTITIONS TO BE

DEMOLISHED. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE CONSULTANTS' DRAWINGS FOR ADDITIONAL

- INFORMATION AND SCOPE OF WORK. ALL FLOORING MATERIALS ARE TO BE REMOVED TO TOP OF EXISTING SLAB BY MECHANICAL MEANS U.O.N. REVIEW SECTION 024113 AS APPLICABLE. TOP OF EXISTING
 - SLAB TO BE LEFT SMOOTH, CLEAN, AND FREE OF ALL ADHESIVE AND READY FOR INSTALLATION OF NEW FLOORING. EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED
- SALVAGE (E) RESTROOM SIGNAGE FOR DISTRICT

AND PROTECTED DURING CONSTRUCTION.

- REMOVE (E) RESTROOM MIRROR U.O.N
- REFER TO FLOOR PLAN AND ELECTRICAL DRAWINGS FOR LOCATIONS REQUIRING PREPARATION OF EXISTING WALLS (CUTTING GYP. BD. AND FRAMING) TO RECEIVE NEW RECESSED WASHROOM ACCESSORIES AND HAND DRYERS

DEMOLITION FLOOR PLAN KEYNOTES

- REMOVE (E) WALL MOUNTED LIGHT, SEE ELECTRICAL DRAWINGS
- REMOVE (E) COUNTER AND SINKS, SEE PLUMBING DRAWINGS REMOVE (E) WALL MOUNTED WATER CLOSET, SEE PLUMBING
- DRAWINGS
- REMOVE, SALVAGE, AND RETURN TO DISTRICT (E) PAPER TOWEL DISPENSER, SEE INTERIOR ELEVATIONS FOR LOCATION
- REMOVE, SALVAGE, AND RETURN TO DISTRICT (E) SOAP DISPENSER, SEE INTERIOR ELEVATIONS FOR LOCATION
- REMOVE (E) CEILING MOUNTED LIGHT, SEE ELECTRICAL DRAWINGS
- REMOVE, SALVAGE, AND RETURN TO DISTRICT (E) SANITARY NAPKIN DISPENSER
- REMOVE, SALVAGE, AND RETURN TO DISTRICT (E) TOILET PAPER DISPENSER
- REMOVE, SALVAGE, AND RETURN TO DISTRICT (E) PAPER TOWEL
- DISPENSER AND TRASH BIN REMOVE (E) EXHAUST FAN AND CUT CEILING AS REQUIRED FOR
- NEW FAN INSTALATION, SEE MECHANICAL DRAWINGS
- REMOVE (E) WALL MOUNTED URINAL REMOVE (E) TOILET PARTITION AND HARDWARE
- REMOVE (E) FLOOR DRAIN, SEE PLUMBING DRAWINGS
- (E) WATER FOUNTAIN TO BE REINSTALLED, SEE PLUMBING
- REMOVE (E) WATER FOUNTAIN, SEE PLUMBING DRAWINGS REMOVE, SALVAGE, AND RETURN TO DISTRICT (E) TOILET PAPER
- DISPENSER AND SANITARY NAPKIN DISPENSER REMOVE (E) SHOWER ENCLOSURE, ASSOCIATED UNDERLAYMENT,
- GRAB BARS, AND TRIM. REMOVE (E) TILE FLOOR FINISH, BASE, AND ASSOCIATED

TOILET ROUGH-IN AND CONNECTIONS, SEE PLUMBING DRAWINGS

- UNDERLAYMENT REMOVE (E) TRANSITION STRIP
- CUT (E) CONCRETE SLAB AS REQUIRED FOR NEW FLOOR MOUNT

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PROJECT DISTRICT OFFICE

RESTROOM **RENOVATION**

SAN MATEO COUNTY **COMMUNITY COLLEGE**

DISTRICT

CONSULTANT

STATE

REVISIONS

No. Description

DD 09/06/2013 100% CD 05/27/2014

SHEET

MILESTONES

ENLARGED RESTROOM DEMOLITION PLAN

07.03.2014

2013028

GRAPHIC KEY

EXISTING WALL TO BE DEMOLISHED.

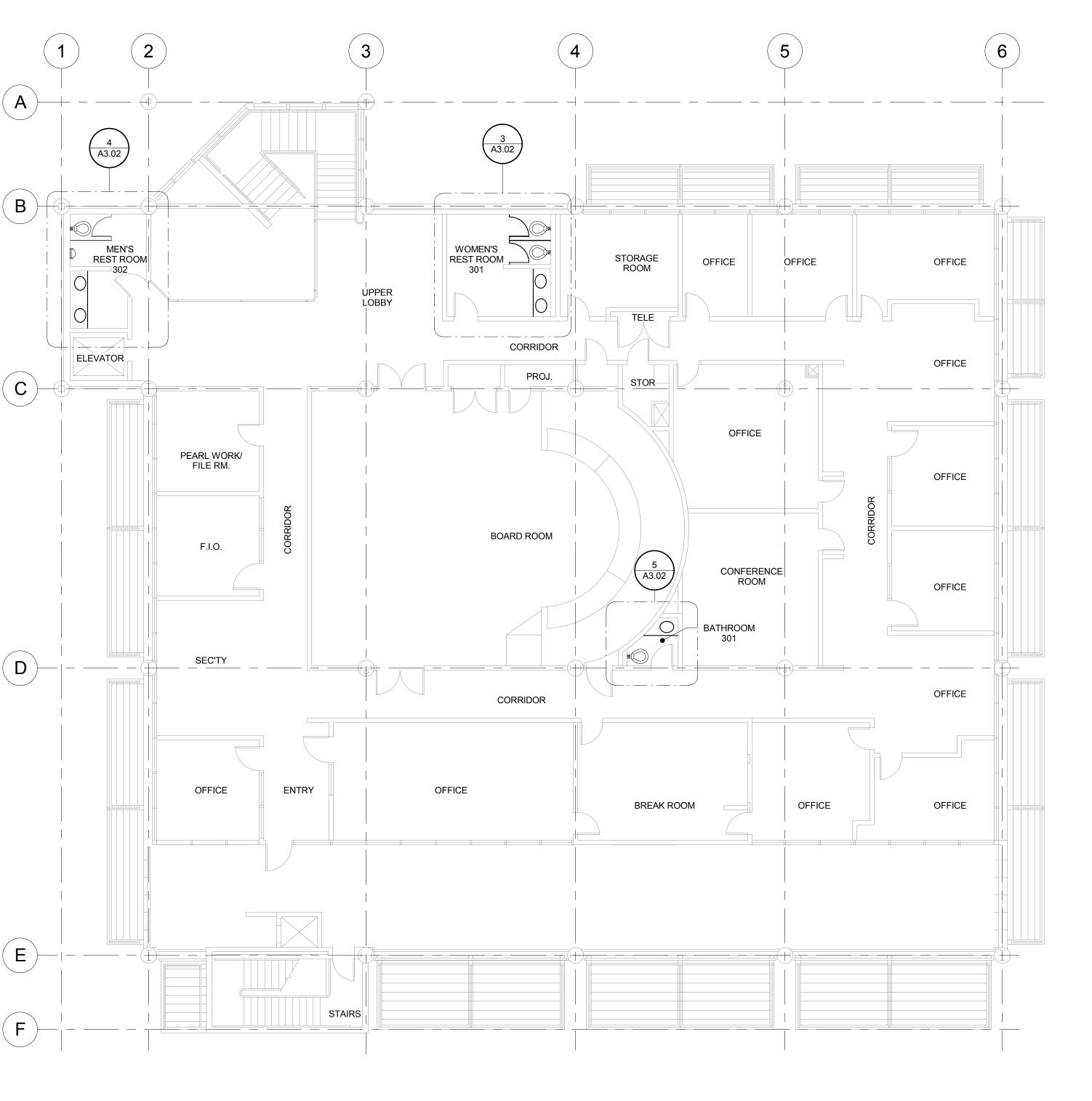
(E) DOOR TO BE DEMOLISHED.

(E) DOOR TO REMAIN

EXISTING WALL TO REMAIN.

WALL TYPES:

1 DEMOLITION PLAN 201 & 202 RESTROOMS (3M & 3W)
SCALE: 1/2" = 1'-0"



2 2ND FLOOR PLAN SCALE: 1/8" = 1'-0"

JAN. STG

ELEV MACH.

ELEVATOR

ENTRY LOBBY

RECEPTION

CONT RM

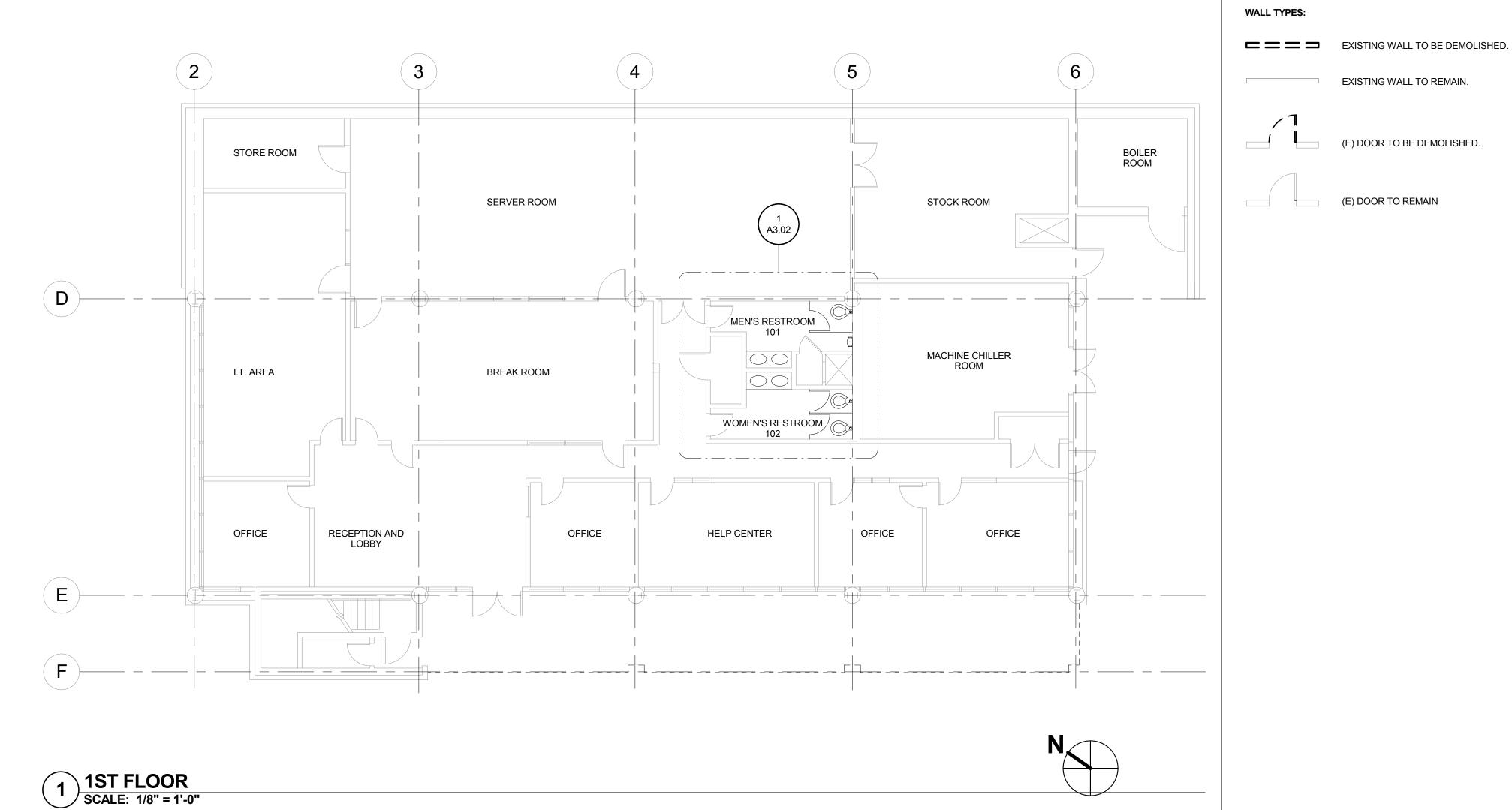
OFFICE

C.E.M.S. OFFICE

MEETING ROOM

BUDGET OFFICE.

JANITOR CLOSET



F.M.O. OFFICE

ROOM

F.M.O. LIBRARY

MEN'S WOMEN'S REST ROOM

COPY/MAIL AND SUPPLIES STORAGE

OFFICE AREA

BUSINESS SERVICES OFFICE

F.M.D. OFFICE

F.M.D. OFFICE

PURCHASING

ASSOCIATE CHANCELLOR OFFICE

GENERAL SHEET NOTES

GRAPHIC KEY

(E) DOOR TO BE DEMOLISHED.

(E) DOOR TO REMAIN

- ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR EXTENT OF
- MECHANICAL, PLUMBING, AND ELECTRICAL WORK.
- ALL EXTERIOR STUD WALLS SHALL HAVE MIN. R-21 FOIL BACKED INSULATION.
 - ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.
 - PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.
- FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS DETAIL.
- FOR SHOWER STALL FIXTURE MOUNTING HEIGHTS, SEE FIXTURE MOUNTING HEIGHTS @ ACCESSIBLE SHOWER STALL DETAIL.
- WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

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PROJECT DISTRICT OFFICE RESTROOM RENOVATION

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

CONSULTANT

STATE

REVISIONS

No. Description

MILESTONES DD

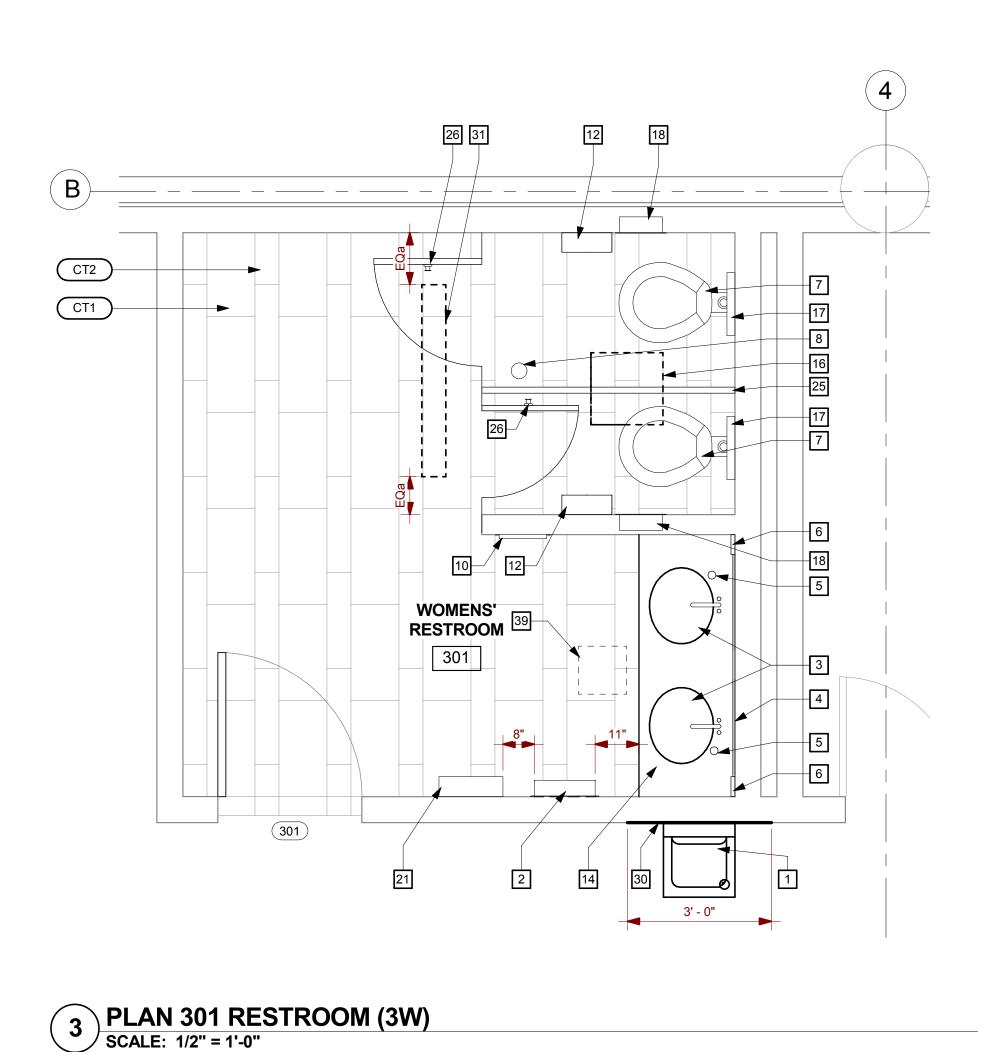
100% CD 05/27/2014

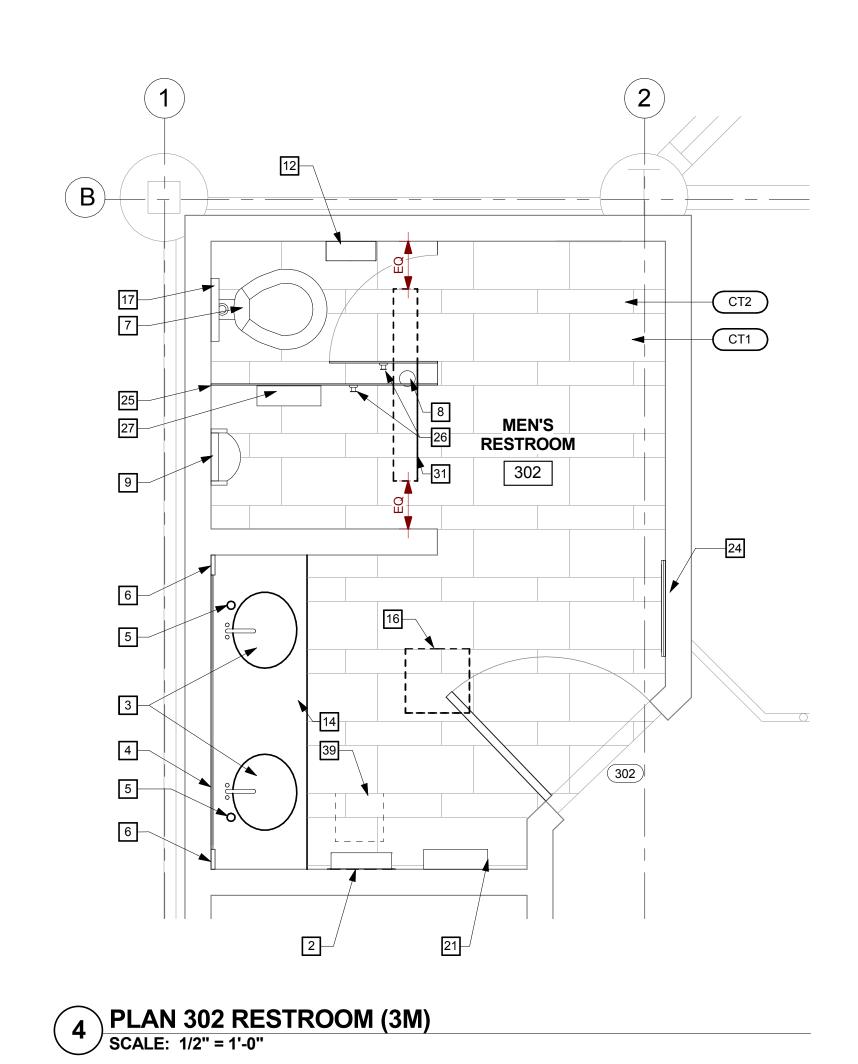
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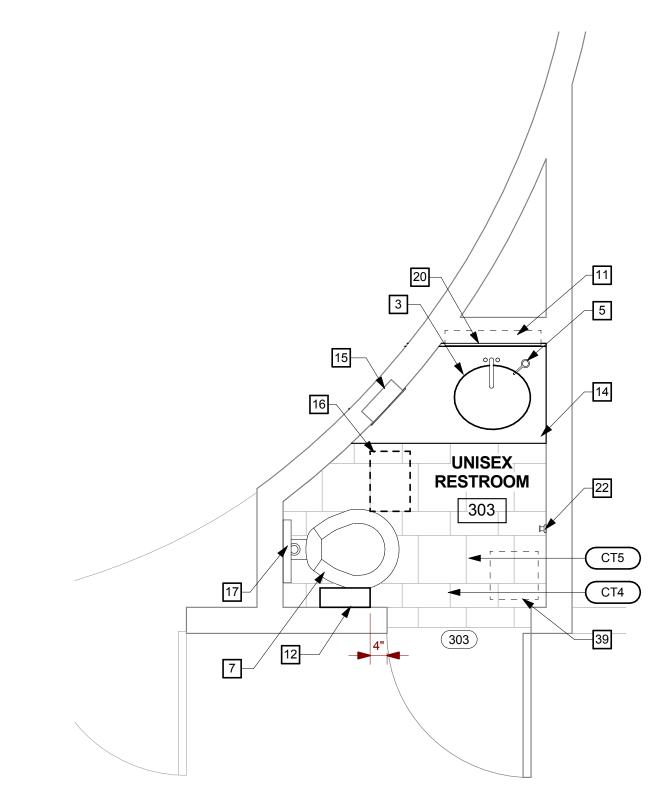
FLOOR PLANS

07.03.2014 ^{JOB #} 2013028

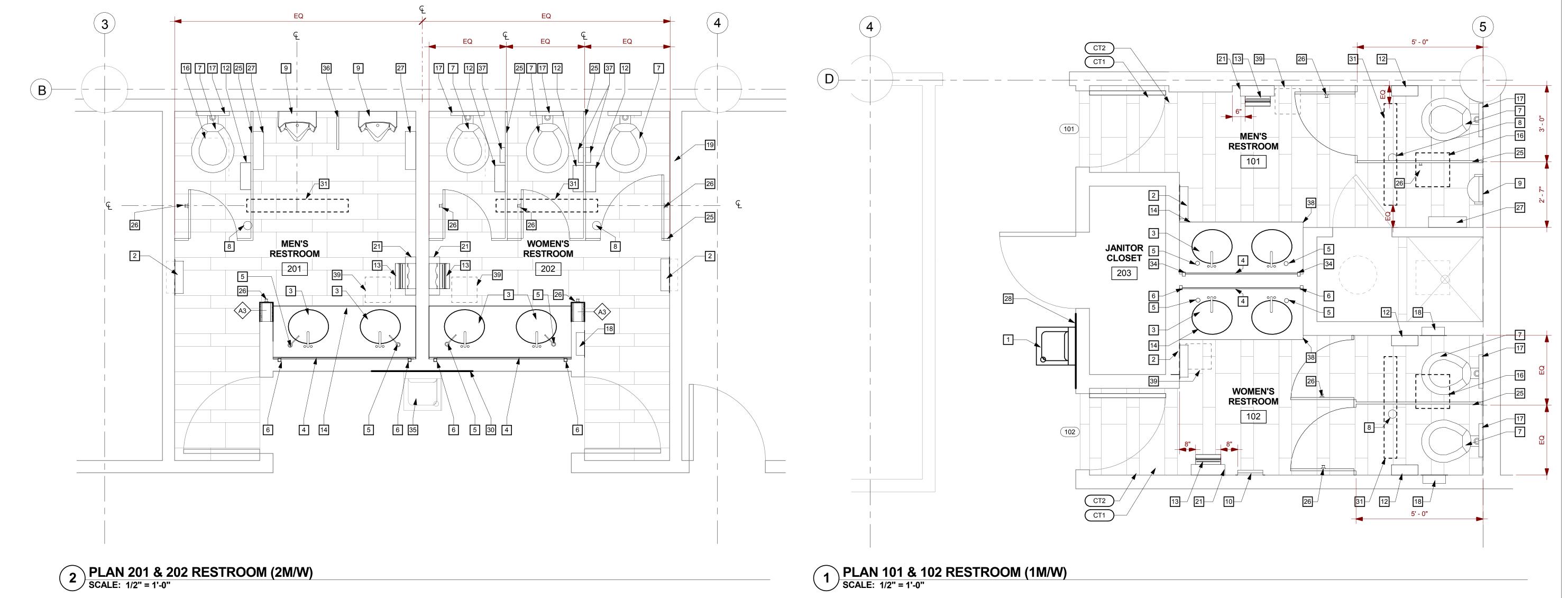
3 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"







5 PLAN 303 RESTROOM (3U) SCALE: 1/2" = 1'-0"



GENERAL SHEET NOTES

- REFER TO FINISH SCHEDULE FOR INTERIOR FINISHES NOT SHOWN ON ELEVATIONS.
- ALL TOILET ROOM STUD WALLS SHALL HAVE NEW SOUND ATTENUATION INSULATION.
- PROVIDE WALL BLOCKING AT ALL TOILET FIXTURE AND ACCESSORY MOUNTING LOCATIONS. SEE TYPICAL BACKING AND BLOCKING DETAILS.
- FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS, SEE TYPICAL FIXTURE MOUNTING HEIGHTS
- WATER SUPPLY AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES, TYP.

ENLARGED PLAN KEYNOTES

- BOTTLE FILLING STATION WATER COOLER, SEE PLUMBING
- RECESSED PAPER TOWEL DISPENSER AND DISPOSAL, BOBRICK
- UNDERMOUNT LAVATORY, SEE PLUMBING DRAWINGS
- 3'0" HEIGHT CUSTOM S.S. EDGE FRAME WALL MOUNTED MIRROR, FULL WIDTH TO EXTEND BETWEEN RECESSED LIGHTS, SEE ELECTRICAL DRAWINGS
- UNDERMOUNT SOAP DISPENSER, BOBRICK B8226. LOCATE SO
- NOZZLE DISPENSES OVER SINK.
- FLUSH WALL MOUNTED VERTICAL STRIP LIGHTING, SEE ELECTRICAL
- DRAWINGS AND INTERIOR ELEVATIONS WATER CLOSET, SEE PLUMBING DRAWINGS
- FLOOR DRAIN, SEE PLUMBING DRAWINGS
- URINAL, SEE PLUMBING DRAWINGS RECESSED NAPKIN VENDOR, BOBRICK B3706-25
- RECESSED WALL MOUNTED 2' HORIZONTAL LIGHT FIXTURE, SEE
- ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS
- 12 TOILET PAPER AND SHELF UNIT, BOBRICK B2840 INSTALL DISTRICT FURNISHED ELEC. HAND DRYER DYSON
- AIRBLADE, SEE ELECTRICAL DRAWINGS
- VIATERA QUARTZ COUNTERTOP "CREMA BEIGE" W/ 4" BACKSPLASH. SEE DETAIL 9/A9.01
- RECESSED PAPER TOWEL DISPENSER, BOBRICK B359 EXHAUST FAN - GC TO FRAME, PATCH, AND PAINT CEILING TO
- MATCH ADJACENT FINISH AS REQUIRED, SEE MECHANICAL DRAWINGS
- RECESSED SEAT COVERS UNIT, BOBRICK B301 RECESSED NAPKIN DISPOSAL UNIT, BOBRICK B353
- RECESSED SEAT COVERS, TOILET PAPER DISPENSER, AND NAPKIN DISPOSAL UNIT, BOBRICK B3754
- 3'H X 2'W CUSTOM S.S. EDGE FRAME WALL MOUNTED MIRROR
- STAINLESS STEEL SHELF, TOP AT 54"AFF, BOBRICK B295X16. CONFIRM LOCATION IN FIELD WITH DISTRICT PRIOR TO BLOCKING AND INSTALLATION
- 22 ROBE HOOK @ 48" A.F.F., BOBRICK B7671
- DIAPER CHANGING STATION, BOBRICK KB110 SSRE
- BOBRICK B165 2460 CHANNEL FRAME MIRROR, BOTTOM AT 18" AFF
- OVERHEAD BRACED TOILET PARTITION BOBRICK SIERRA SERIES
- 1090 SC04 "FOREST GREEN", SEE DETAIL 19/A9.01 AND INTERIOR **ELEVATIONS**
- 26 ROBE HOOK @ 60" A.F.F., BOBRICK B7671
- STAINLESS STEEL SHELF, TOP AT 38"AFF, BOBRICK B295X16. CONFIRM LOCATION IN FIELD WITH DISTRICT PRIOR TO BLOCKING AND INSTALLATION
- STAINLESS STEEL 18 GAUGE TRIMMED WALL PANEL FROM TOP OF WALL BASE TO 48" AFF, WIDTH BETWEEN DOOR FRAMES
- 29 NOT USED
- STAINLESS STEEL 18 GAUGE TRIMMED WALL PANEL FROM TOP OF WALL BASE TO 48" AFF, 36" WIDTH CENTERED ON DRINKING
- **FOUNTAIN** 31 FLUSH MOUNTED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
 - NOT USED
- 33 NOT USED
- FLUSH WALL MOUNTED VERTICAL LIGHTING, MOUNT LIGHT FIXTURES INBOARD FROM "WOMEN'S ROOM" SIDE TO AVOID CONFLICT, SEE ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS

REINSTALL (E) SALVAGED BOTTLE FOUNTAIN, SEE PLUMBING

- 48" URINAL SCREEN 18" A.F.F., BOBRICK SIERRA SERIES 1095 SC04
- "FOREST GREEN"
- SURFACE MOUNTED SANITARY NAPKIN DISPOSAL, BOBRICK B254 PROVIDE RADIUSED COUNTERTOP AND APRON RETURN TO WALL
- 12"x12" PAINTED CEILING FLUSH MOUNT 14 GA STEEL ACCESS DOOR W/16 GA FRAME FOR REMOTE POWER DRIVER. CONFIRM LOCATION IN FIELD.

GRAPHIC KEY

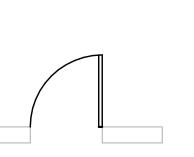
WALL TYPES:

EXISTING WALL TO REMAIN.

NEW WALL



(E) DOOR



DOOR TO BE INSTALLED



DOOR TAG



architects

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DISTRICT OFFICE RESTROOM

RENOVATION

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

CONSULTANT

STATE

REVISIONS Date No. Description

MILESTONES DD 09/06/2013

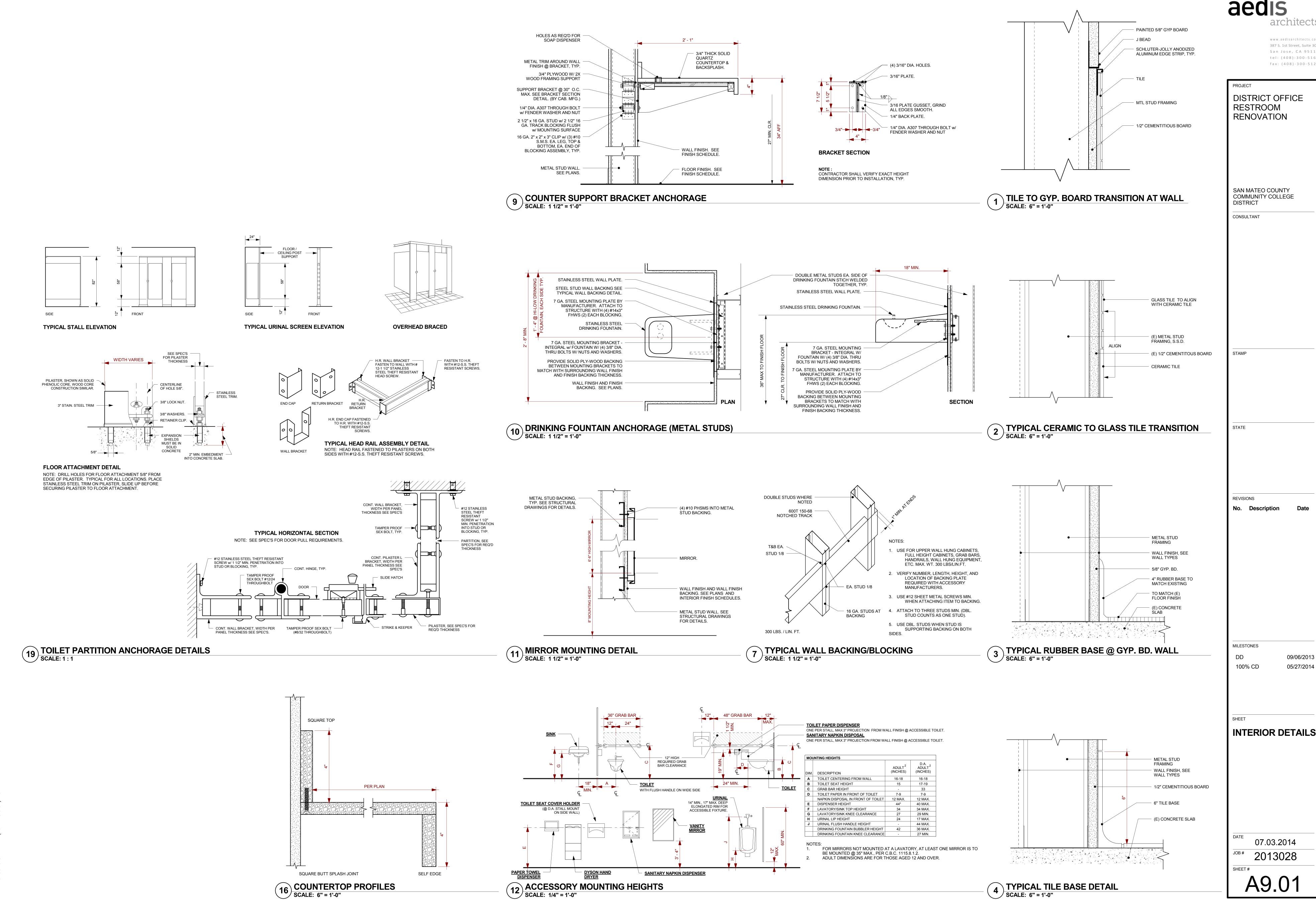
05/27/2014

100% CD

SHEET

ENLARGED RESTROOM PLANS

07.03.2014 2013028



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09/06/2013 05/27/2014

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DISTRICT OFFICE RESTROOM RENOVATION

PROJECT

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

CONSULTANT

STATE

REVISIONS

No. Description Date

09/06/2013 100% CD 05/27/2014

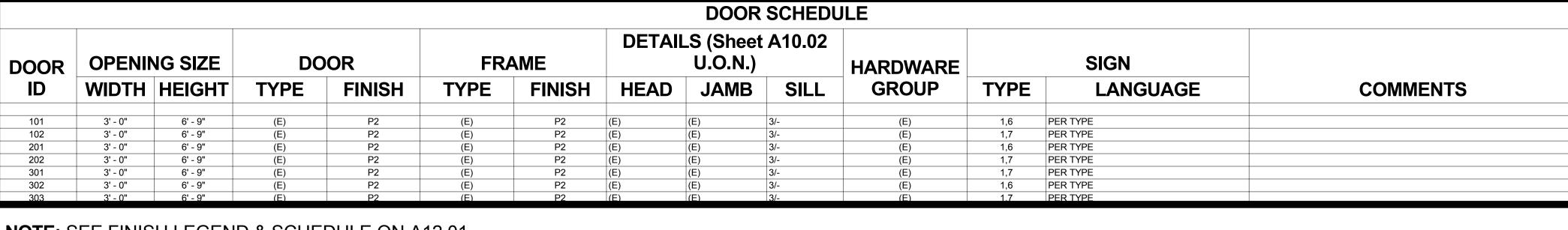
SHEET WALL AND

DETAILS

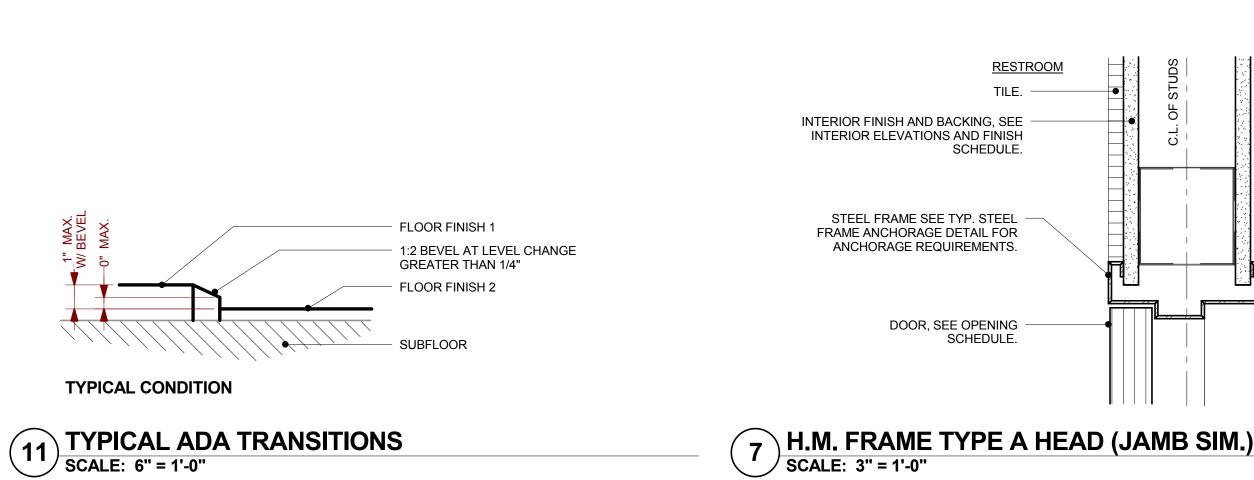
07.03.2014

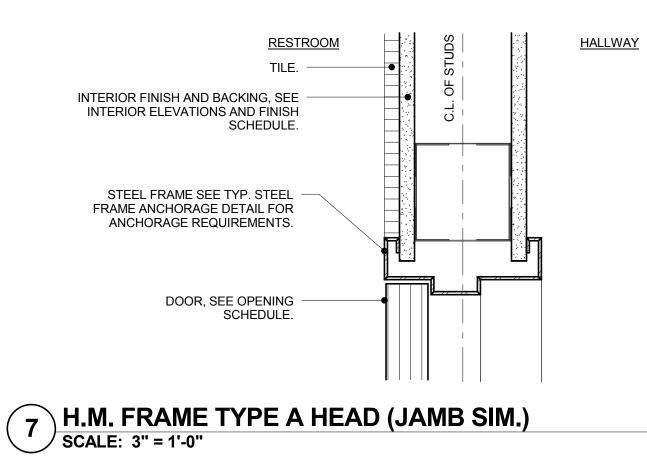
2013028 SHEET#

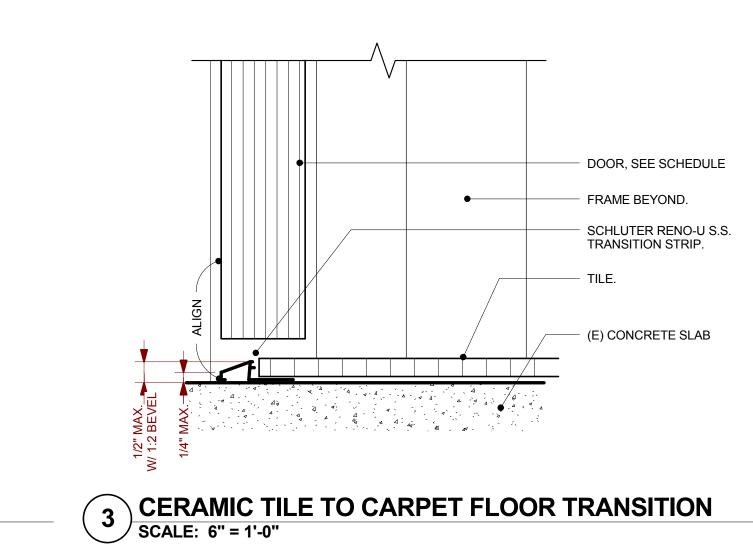
4 WALL TYPE LEGEND SCALE: 1/8" = 1'-0"



NOTE: SEE FINISH LEGEND & SCHEDULE ON A12.01







(A) HOLLOW METAL

- WALL TYPE, SEE DETAIL.

STUD SIZE, SEE SCHEDULE BELOW.

L-----

STUD SIZE

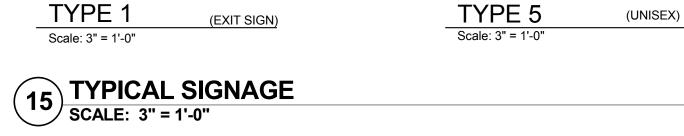
2 1/2"

3 5/8"

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

A HOLLOW METAL

DOOR TYPESSCALE: 1/4" = 1'-0"



ALL ROOM NAMES & NUMBERS SHALL BE VERIFIED WITH THE OWNER PRIOR TO FABRICATION.

VERIFY ALL TEXT CONTAINED WITHIN PARENTHESIS WITH ARCHITECT PRIOR TO FABRICATION

1/8" HIGH RAISED -PICTOGRAMS, TYP.

1" TALL, 1/32" HIGH -RAISED LETTERING, TYP.

1/8" HIGH RAISED -

PICTOGRAMS, TYP.

1" TALL, 1/32" HIGH -RAISED LETTERING,

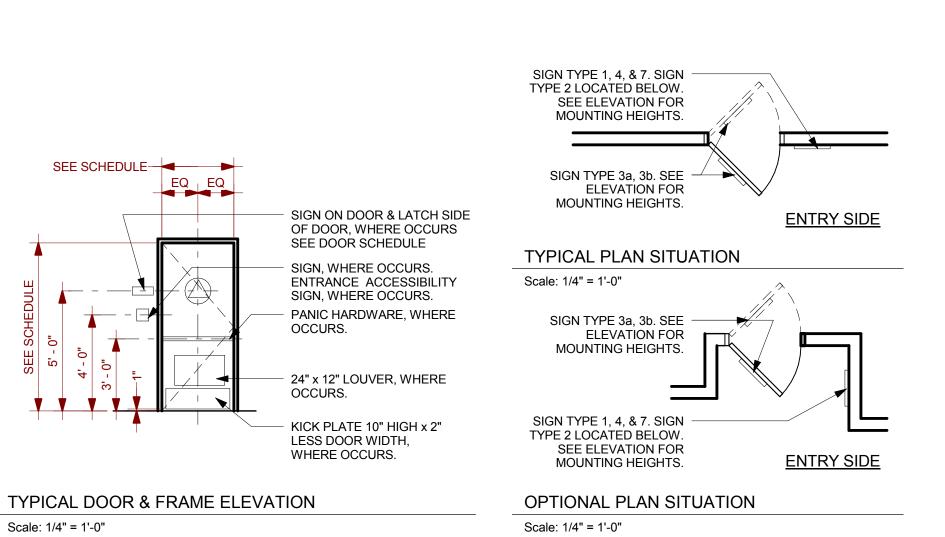
MEN__

ALL SIGNAGE TO BE FABRICATED PER DISTRICT STANDARD.

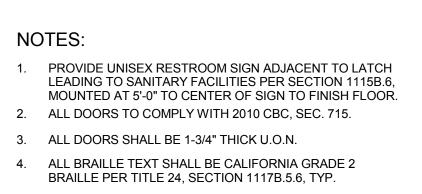
CALIFORNIA GRADE 2 BRAILLE TEXT (BRAILLE

TEXT TO MATCH SIGN WORDING, TYP.)

ALL FONTS SHALL BE "SANS SERIF" U.O.N.



RESTROOM



WOMEN

(FEMALE)

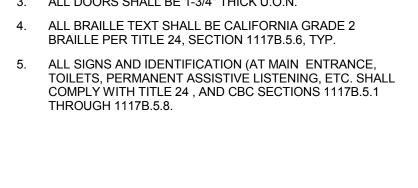
1/8" HIGH RAISED

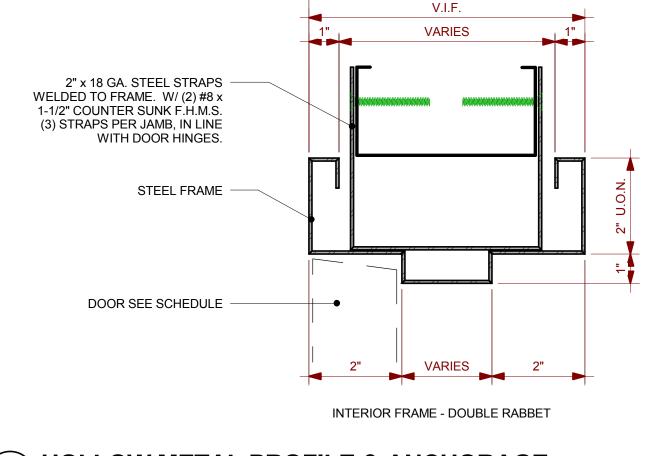
PICTOGRAMS, TYP.

1" TALL, 1/32" HIGH

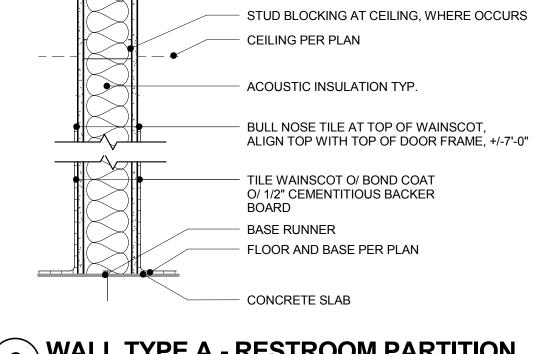
TYPE 7

RAISED LETTERING,









METAL STUD FRAMING

UNDERSIDE OF CONCRETE SLAB

- FLEXIBLE ACOUSTIC SEALANT

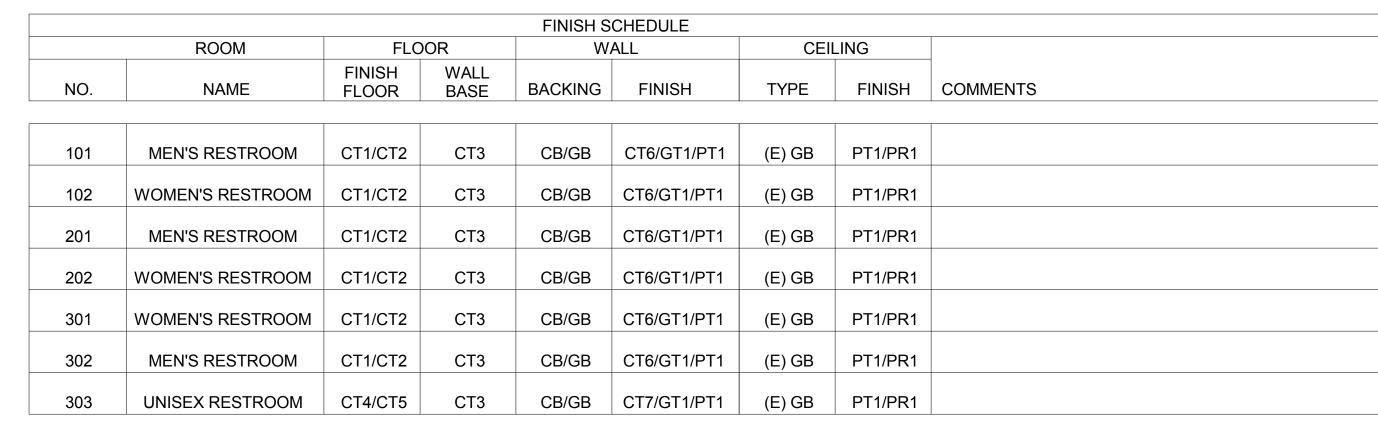
8 WALL TYPE A - RESTROOM PARTITION
SCALE: 1 1/2" = 1'-0"

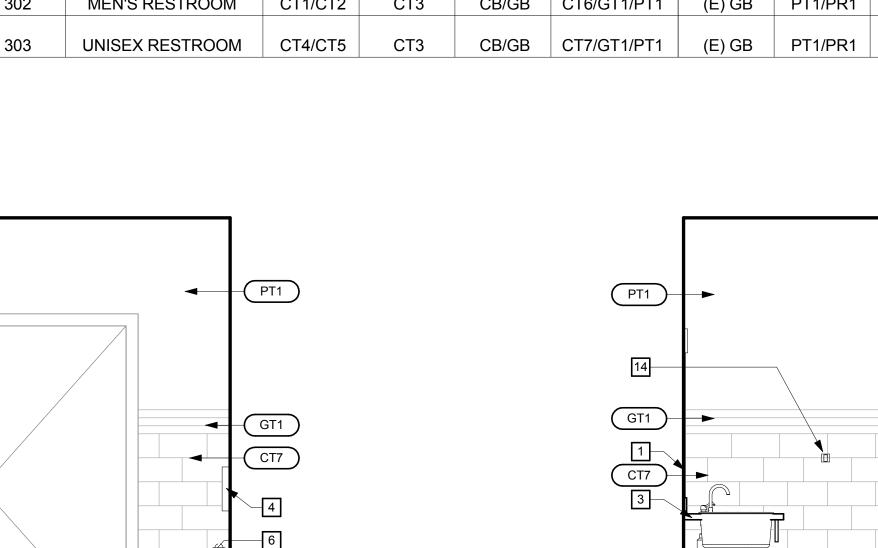
TYPICAL DOOR NOTES

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

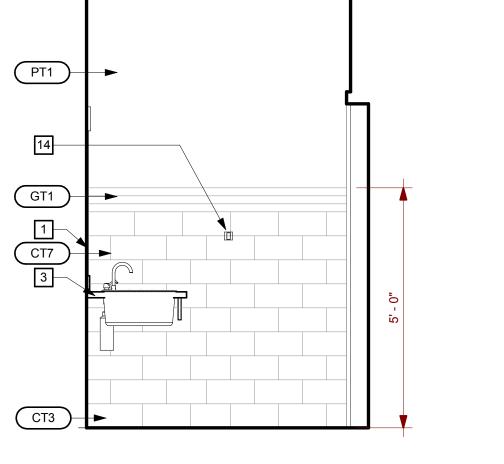
MILESTONES DD

OPENING TYPES &

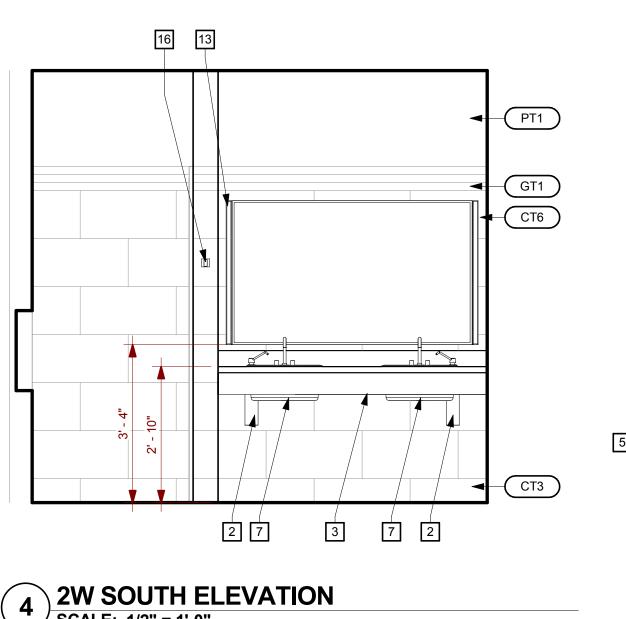


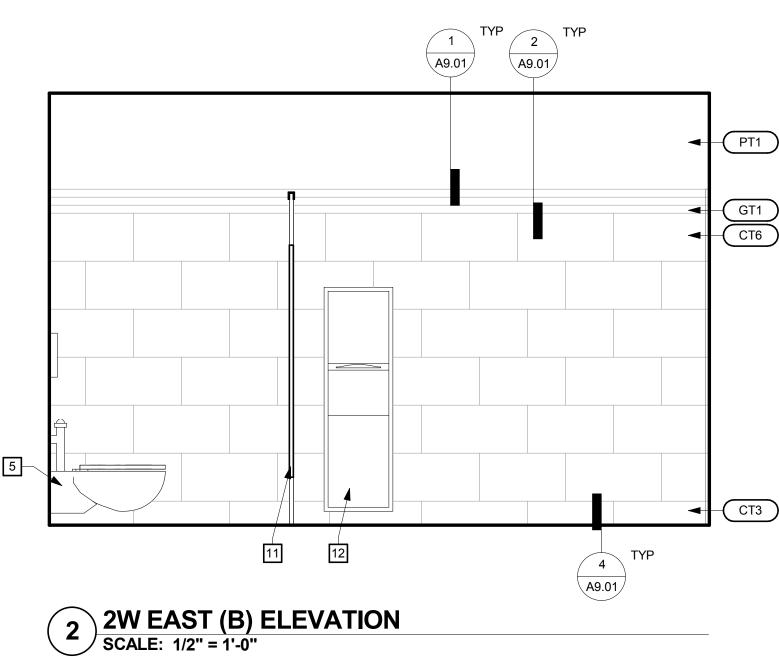


3 SCALE: 1/2" = 1'-0"



1 3U EAST ELEVATION SCALE: 1/2" = 1'-0"





GENERAL SHEET NOTES

- INTERIOR ELEVATIONS SHOWN REPRESENT THE DESIGN INTENT FOR TILE LAYOUT FOR ALL RESTROOMS IN BUILDING EXCEPT RESTROOM 303 (3U) WHICH USES DIFFERENT TILES SIZES.
- REFER TO A9.01 FOR ACCESSORY MOUNTING HEIGHTS.



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GENERAL FINISH NOTES

- WHERE MULTIPLE WALL FINISHES ARE CALLED OUT, REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF INDIVIDUAL FINISHES.
- WHERE MULTIPLE FLOOR FINISHES ARE CALLED OUT, REFER TO FLOOR FINISH PLANS FOR LOCATIONS OF INDIVIDUAL FINISHES.
- PROVIDE FINISHES TO COMPLY WITH FLAME SPREAD & SMOKE DENSITY REQUIREMENTS OF CBC 803 and 804.

DISTRICT OFFICE **RENOVATION**

PROJECT

SAN MATEO COUNTY **COMMUNITY COLLEGE**

DISTRICT

CONSULTANT

STAMP

No. Description

Date

09/06/2013

05/27/2014

STATE

INTERIOR ELEVATION KEYNOTES

- 3'H X 2'W CUSTOM S.S. EDGE FRAME WALL MOUNTED MIRROR UNDERMOUNT SOAP DISPENSER, BOBRICK B8226. LOCATE SO NOZZLE DISPENSES OVER SINK.
- VIATERA QUARTZ COUNTERTOP "CREMA BEIGE" W/ 4"
- BACKSPLASH. SEE DETAIL 9/A9.01
- RECESSED SEAT COVERS UNIT, BOBRICK B301 WATER CLOSET, SEE PLUMBING DRAWINGS
- TOILET PAPER AND SHELF UNIT, BOBRICK B2840 UNDERMOUNT LAVATORY, SEE PLUMBING DRAWINGS
- RECESSED PAPER TOWEL DISPENSER, BOBRICK B359 RECESSED WALL MOUNTED 2' HORIZONTAL LIGHT FIXTURE,
- SEE ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS
- INSTALL DISTRICT FURNISHED ELEC. HAND DRYER DYSON AIRBLADE, SEE ELECTRICAL DRAWINGS
- OVERHEAD BRACED TOILET PARTITION BOBRICK SIERRA
- SERIES 1090 SC04 "FOREST GREEN", SEE DETAIL 19/A9.01 AND INTERIOR ELEVATIONS
- RECESSED PAPER TOWEL DISPENSER AND DISPOSAL, BOBRICK B3944-130
- FLUSH WALL MOUNTED VERTICAL STRIP LIGHTING, SEE
- ELECTRICAL DRAWINGS AND INTERIOR ELEVATIONS ROBE HOOK @ 48" A.F.F., BOBRICK B7671
- STAINLESS STEEL SHELF, TOP AT 54"AFF, BOBRICK B295X16. CONFIRM LOCATION IN FIELD WITH DISTRICT PRIOR TO
- BLOCKING AND INSTALLATION

ROBE HOOK @ 60" A.F.F., BOBRICK B7671

FINISH LEGEND

1	12" x 24" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV247 UPS HAZE)	
2	6" x 24" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV242 UPS HAZE)	
3	6" x 12" CERAMIC COVE TILE (CROSSVILLE PORCELAIN STONE AV247 UPS HAZE)	
4	6" x 12" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV247 UPS HAZE)	
5	12" x 12" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV242 UPS HAZE)	
6	12" x 24" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV242 UPS VAPOR)	
7	6" x 12" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV242 LIPS VAPOR)	

- 6" x 12" CERAMIC TILE (CROSSVILLE PORCELAIN STONE AV242 UPS VAPOR) 1" x 3" GLASS TILE (CROSSVILLE GLASS EF04 LINEAR MIXED SAND AND SURF)
- 1/2" CEMENTITIOUS BOARD
- GYPSUM BOARD, PAINTED PRIMER: KELLY-MOORE; 971 ACRY-PLEX INTERIOR PVA PRIMER/SEALER LOW ODOR/LOW VOC FORMULA: APPLIED AT A DRY FILM THICKNESS OF 1.5 – 2.0 MILS
- PRIMER FOR METALS: KELLY-MOORE; 1711 KEL-GAURD ALKYD WHITE RUST-
- PREVENTATIVE PRIMER: APPLIED AT A DRY FILM THICKNESS OF 1.5 2.0 MILS PER COAT.
- PRIMER FOR ZINC METALS: KELLY-MOORE; 1725 ACRY SHIELD 100% ACRYLIC METAL PRIMER: APPLIED AT A DRY FILM THICKNESS OF 1.5 2.0 MILS PER COAT.
- PAINT: KELLY-MOORE; 1685 + DURA-POXY SEMI-GLOSS ACRYLIC ENAMAL: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 1.5 mils. COLOR: KM #27 " BONE".
- <u>PAINT</u>: KELLY-MOORE; 1685 + DURA-POXY SEMI-GLOSS ACRYLIC ENAMAL: APPLIED AT A DRY FILM THICKNESS OF NOT LESS THAN 1.5 mils. COLOR: TBD BY DISTRICT.

INTERIOR

ELEVATIONS

MILESTONES

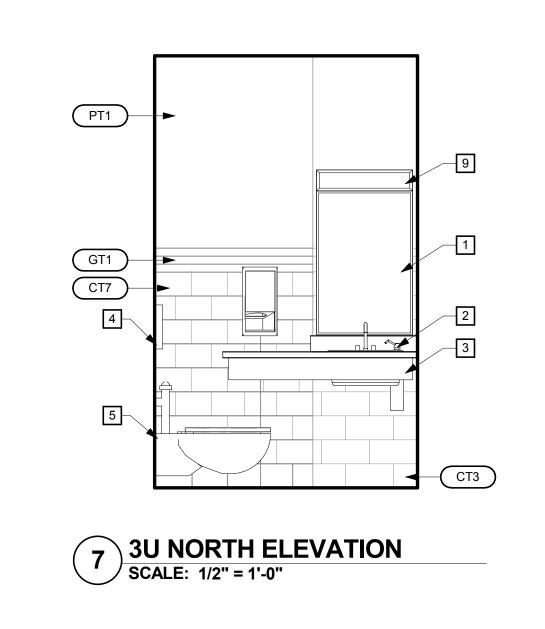
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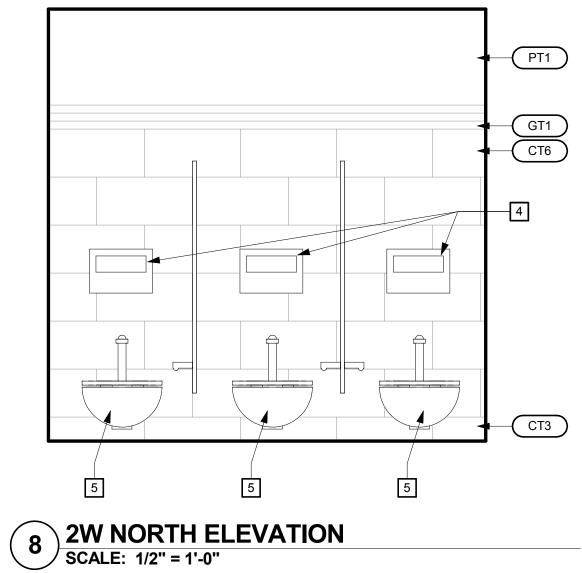
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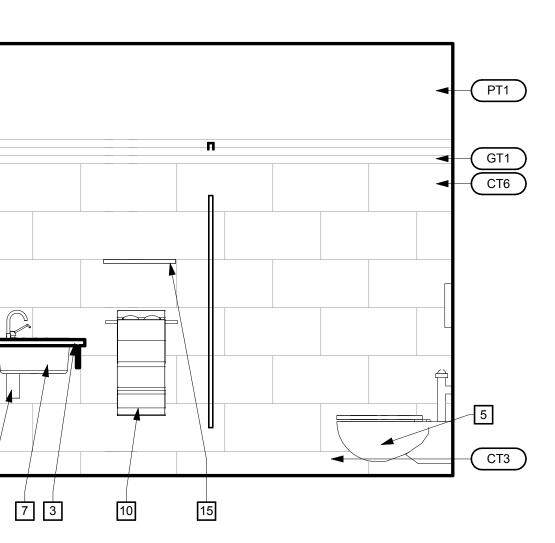




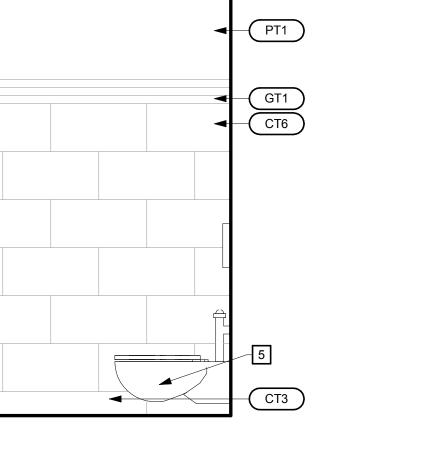


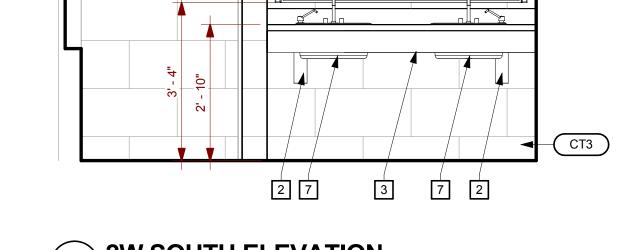
6 2W WEST (A) ELEVATION SCALE: 1/2" = 1'-0"

5 3U WEST ELEVATION
SCALE: 1/2" = 1'-0"

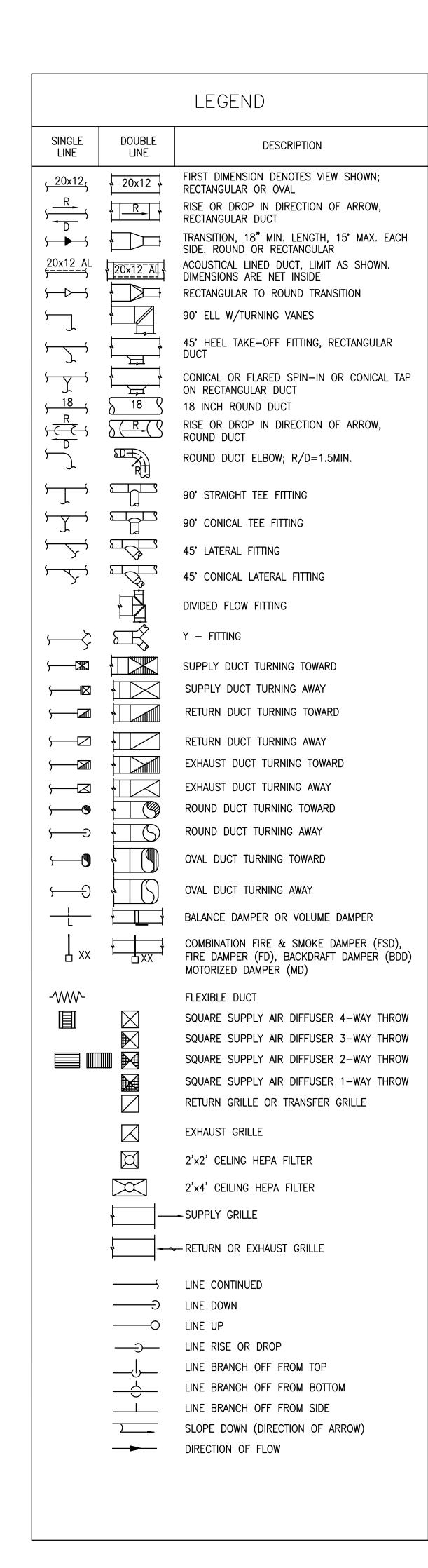


PT1





4 2W SOUTH ELEVATION SCALE: 1/2" = 1'-0"



SCHOOL PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7, 13.6.5.5 ITEM 6, AND CBC 1614A.1.13.
- 2. THE BRACING AND ATTACHMENT TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318. APPENDIX D.
- 3. COPIES OF THE MANUALS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.
- 4. THE STRUCTURAL ENGINEER OF THE RECORD SHALL VERIFY THE ADEQUACY OF THE STRCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

SYMBOL	DESCRIPTION
51M502	
(A)	SECTION A / SHEET M1
TB1-01	UNIT TYPE, FLOOR, AH UNIT NO.
M1	EQUIP. MARK NO. M1 / SEE EQUIP. SCHEDULE
<u></u>	REVISION SHEET NOTE
√√ 20x18 ←	INDICATES OVAL DUCT
20x10 👄	
	NUMBER OF DIFFUSER'SDIFFUSER OR GRILLE'S NECK SIZE
(2)6 CD1	DIFFUSER OR GRILLE'S MARK No.AMOUNT OF CFM DESIGNED
H	HUMIDISTAT
(HS)	HUMIDITY SENSOR
T	THERMOSTAT MTD. @ 48" AFF. MAX.
(TS)	TEMPERATURE SENSOR
M	MAIN AIR, 20 PSIG
TS	TEMPERATURE SWITCH
(PS)	PRESSURE SENSOR
-	POINT OF CONNECTION
M	MOTORIZED DAMPER
	PRESSURE TAP. PETE'S PLUG
	PIPE ANCHOR
 ∃ D	PIPE CAP
	LINE CONTINUED
	LINE DOWN
	LINE UP
	LINE RISE OR DROP
	LINE BRANCH OFF FROM TOP
	LINE BRANCH OFF FROM BOTTOM
	LINE BRANCH OFF FROM SIDE
	SLOPE DOWN (DIRECTION OF ARROW)
	DIRECTION OF FLOW
— [THERMOMETER SENSOR WELL
— — "	UNION
	FLANGE
	POINT OF CONNECTION
	BALL VALVE
◇ ≠	BALANCE VALVE
N N	BUTTERFLY VALVE CHECK VALVE — SWING TYPE
r NS	CHECK VALVE - SWING TIPE CHECK VALVE - NON SLAM TYPE
	CONTROL VALVE (2-WAY), 早 ELECT., ֏ PNEU.
	CONTROL VALVE (3-WAY), P ELECT., P PNEU.
<u>~</u>	TRIPLE DUTY VALVE
> □	GLOBE VALVE
\bowtie	GATE VALVE
Ŕ	PRESSURE REDUCING VALVE
☆	PRESSURE RELIEF VALVE
Ź	MANUAL AIR VENT. W/3/8" COCK W/DISCHARGE TO DR
Ψ	PLUG VALVE
⊳ I	STRAINER
K	QUICK DISCONNECT
	SUCTION DIFFUSER
	BASKET STRAINER
M	FLEXIBLE PIPE CONNECTION
수	AUTOMATIC AIR VENT
M	STRAINER W/ BLOW-OFF VALVE
	CONCENTRIC PIPE REDUCER
	ECCENTRIC PIPE REDUCER/TOP FLAT
Δ A	ECCENTRIC PIPE REDUCER/BOTTOM FLAT
	FILTER
	PUMP
— CHS —	CHILLED WATER SUPPLY
— CHR —	CHILLED WATER RETURN
— CD —	CONDENSATE DRAIN
— HWS —	HOT WATER SUPPLY
— HWR —	HOT WATER RETURN
	THEMPERATURE GAUGE
Pl	PRESSURE GAUGE

SCHOOL EQUIPMENT ANCHORAGE NOTE

- ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2007 CBC, SECTION 13.3, 13.4, 13.6 AND CHAPTER 6.
- 2. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS, AND THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS (EQUIPMENT) HAVE BEEN ANCHORED:
- 2.A. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON
- THE FLOOR OR ROOF. 2.B. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH ASCE 7-05,
- SECTION 13.5. 2.C. TEMPORARY OR MOVABLE EQUIPMENT WITH FLEXIBLE CONNECTION TO POWER OR UTILITIES.
- 2.D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS. 2.E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL / ELECTRICAL ENGINEER.

	ABBREVIATIONS
ABBREV	DESCRIPTION
AAA AA	BRITISH THERMAL UNITS PER HOUR BALANCE VALVE COMMON COMPRESSED AIR CEILING DIFFUSER CONDENSATE DRAIN LINE COOLING COIL CLEAN DRY AIR CAP FOR FUTURE CUBIC FEET OF AIR PER MINUTE CHILLED WATER RETURN CHILLED WATER SUPPLY DDC CONTACT INPUT CHECK VALVE CENTERLINE CEILING DDC CONTACT OUTPUT CONCRETE

<i>F</i>	ADDREVIATIONS (CONT)
ABBREV	DESCRIPTION
GALV GE	GALVANIZED GENERAL EXHAUST
GEF	GENERAL EXHAUST FAN
GPM	GALLONS PER MINUTE GALVANIZED SHEET METAL
GSM GYP	GYPSUM BOARD
HB	HOSE BIBB
HC HOA	HEATING COIL HAND-OFF AUTOMATIC SWITCH
HP	HORSEPOWER
HR HT	HOUR HEIGHT
HTG	HEATING
HVAC HW	HEATING, VENTILATING AND AIR CONDITIONING HOT WATER (DOMESTIC)
HWR	HEATING WATÈR RETURŃ HEATING WATER SUPPLY
HWS IN	INCH
IP KW,KWH	INTERFACE PANEL KILOWATT, KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LWT MA	LEAVING WATER TEMPERATURE MILLIAMPS
MAU	MAKE-UP AIR UNIT
MAV MAX	MANUAL AIR VENT MAXIMUM
MCC	MOTOR CONTROL CENTER
MD MECH	MANUAL DAMPER MECHANICAL
MFR	MANUFACTURER
MIN NC	MINIMUM NORMALLY CLOSED
NC NO NTS	NORMALLY OPEN; NUMBER
N15 OA	NOT TO SCALE OUTSIDE AIR
OBD OC	OPPOSED BLADE DAMPER ON CENTER
PCHR	PRIMARY CHILLED WATER RETURN
PCHS PCV	PRIMARY CHILLED WATER SUPPLY PRESSURE CONTROL VALVE
PD	PRESSURE DROP
PF PG	PREFILTER PRESSURE GAUGE
PH PLBG	PREHEAT COIL PLUMBING
POC	POINT OF CONNECTION
PRV PSI	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH
RG RH	RETURN GRILLE
KH RH	RELATIVE HUMIDITY REHEAT COIL
RPM RR	REVOLUTIONS PER MINUTE RETURN REGISTER
RS	REFRIGERANT SUCTION
RV S/S	RELIEF VALVE START/STOP
SÃ	SUPPĹY AIR
SCHED SCHR	SCHEDULE SECONDARY CHILLED WATER RETURN
SCHS SD	SECONDARY CHILLED WATER SUPPLY SMOKE DETECTOR
SD	SLOT DIFFUSER
SOV SM	SHUT OFF VALVE SHEET METAL
SP	STATIC PRESSURE OR SET POINT
SPEC SR	SPECIFICATION SUPPLY AIR REGISTER
SS STRUC	STAINLESS STEEL STRUCTURAL
SWE	SIDE WALL EXHAUST
SWR SWS	SIDE WALL RETURN SIDE WALL SUPPLY
SWT	SIDE WALL TRANSFER
(T) ТВ	TEMPORARY TERMINAL BOX
TCP TCV	TEMPERATURE CONTROL PANEL TEMPERATURE CONTROL VALVE
TEMP	TEMPERATURE
TF THERM	TOP FLAT THERMOMETER
THRU	THROUGH
TS T'STAT	TEMPERATURE SENSOR THERMOSTAT
TYP UBC	TYPICAL UNIFORM BUILDING CODE
UMC	UNIFORM MECHANICAL CODE
UON UPC	UNLESS OTHERWISE NOTED UNIFORM PLUMBING CODE
VAC VAV	VACUUM VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD VOC	VARIABLE FREQUENCY DRIVE VOLTILE ORGANIC COMPOUND
VOL	VOLUME
VTR W/	VENT THRU ROOF WITH
W/O WB	WITHOUT WET BULB TEMPERATURE
WF	WIDE FLANGE
I	

ABBREVIATIONS (CON'T)

GENERAL NOTES

- ALL NEW CONSTRUCTION SHALL CONFORM TO CURRENT CITY, STATE AND NATIONAL CODES, STANDARDS AND REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN THE FIELD BEFORE COMMENCEMENT OF THE WORK AND SHALL REPORT ANY DISCREPANCIES AND/OR INCONSISTENCIES BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS TO THE ENGINEER FOR CLARIFICATIONS BEFORE COMMENCEMENT OF THE WORK.
- THE CONTRACTOR SHALL CONSULT ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL TRADE PERMITS AND INSPECTIONS.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO COMPLETE WORK AS SET FORTH IN THESE PLANS UNLESS OTHERWISE NOTED. THE SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS, AND NO CHANGE ORDER WILL BE ISSUED FOR ANY ADDITIONAL LABOR OR MATERIAL REQUIRED TO RECTIFY ANY DISCREPANCY DISCOVERED OR REPORTED TO THE ENGINEER AFTER THE EXECUTION OF THE CONTRACT.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS AND NEW ROUTINGS. THE CONTRACTOR IS RESPONSIBLE TO THOROUGHLY VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.
- ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY OWNERS. ANY PORTION OF THE DEFECTIVE WORK SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- ANY NEW OR EXISTING DUCT OR PIPING OFFSETS REQUIRED AS RESULT OF JOB CONDITIONS OR LACK OF COORDINATION WITH OTHER TRADES, SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER AND SUBJECT TO ARCHITECT'S REVIEW.
-). IF NECESSARY CONTRACTOR SHALL PROVIDE DUCTWORK AND TRANSITIONS ETC. EQUIVALENT TO THE FREE AREA OF DUCTWORK THAT IS SHOWN ON DRAWINGS, TO PREVENT ANY CONFLICT WITH EXISTING CONDITIONS, OTHER BUILDING SERVICES OR TO RESOLVE DUCTWORK CONFLICTS.
- 10. COORDINATION ITEMS:
- ELECTRICAL CONTRACTOR SHALL:
- 10.1. PROVIDE 120V POWER TO DDC CONTROL PANELS. COORDINATE WITH CONTROLS CONTRACTOR.
- 10.2. PROVIDE DUCT SMOKE DETECTORS FOR A/C UNIT SHUT DOWN. DIVISION 23 SHALL INSTALL AND INTERLOCK WIRE FOR UNIT SHUT DOWN. DIVISION 26 SHALL POWER WIRE AND INTERLOCK TO FIRE ALARM SYSTEM.
- 1. EQUIPMENT, MATERIALS AND PRODUCTS SPECIFICALLY IDENTIFIED, DESCRIBED AND SCHEDULED ON THE CONTRACT DOCUMENTS ARE THE BASIS OF DESIGN FOR THIS PROJECT. OTHER MANUFACTURERS OR SUPPLIERS WHICH MAY BE NAMED IN THE DOCUMENTS ONLY INDICATE GENERAL ACCEPTABILITY OF THE MANUFACTURERS OR SUPPLIERS AND SHALL BE CONSIDERED ALTERNATES. IT IS CONTRACTOR'S RESPONSIBILITY TO RESEARCH, SELECT, AND PROVE THROUGH THE SUBMITTAL & SHOP DRAWINGS PROCESS. THAT THE SPECIFIC MODEL, SIZE OR TYPE OF THE ALTERNATE PROPOSED MANUFACTURER BY THE CONTRACTOR IS EQUAL AND SHALL PERFORM EQUAL TO THE ITEMS WHICH ARE THE BASIS OF THE DESIGN FOR THIS PROJECT. OPERATIONAL CHARACTERISTICS FOR SUCH ITEMS, OVERALL DIMENSIONS, WEIGHTS, OUTLET VELOCITIES, POWER INPUT, SOUND LEVELS, EFFICIENCIES, ETC. SHALL BE CONSIDERED IN ADDITION TO THE OVERALL PERFORMANCE, OUTPUT AND PHYSICAL CONSTRAINTS.
- 12. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY THAT ALTERNATIVE ITEMS SUBSTITUTED FOR THE SCHEDULED MANUFACTURER WILL MEET THE DESIGN REQUIREMENTS AND IS RESPONSIBLE FOR THE COST OF REDESIGN AND MODIFICATIONS NECESSARY DUE TO THIS SUBSTITUTION/ALTERNATE. REVISIONS OR ADDITIONAL WORK REQUIRED DUE TO THE USE OF SUBSTITUTE/ALTRERNATE MATERIALS AND EQUIPMENT SHALL BE FULLY INDICATED ON DETAILED SHOP DRAWINGS SUBMITTED WITH SUBMITTAL.
- 13. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOTCHED OR WELDED WITH OUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

BUILDING CODE AND STANDARDS:

2010 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, (PART 1, TITLE 24, C.C.R.)

2010 CALIFORNIA BUILDING CODE VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR)

2010 CALIFORNIA ELECTRICAL CODE (CEC), (PART 3, TITLE 24, C.C.R.

2010 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, C.C.R.

2010 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, C.C.R.)

2010 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24, C.C.R.)

2010 CALIFORNIA FIRE CODE, (PART 9 & 12, TITLE 24, C.C.R.)

2010 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

SEISMIC LATERAL SUPPORT NOTE

LATERAL SUPPORT FOR DUCTS AND PIPING SHALL COMPLY WITH THE LATEST EDITION OF "SMACNA" "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING

CONTRACTOR SHALL RETAIN A CALIFORNIA REGISTERED PROFESSIONAL STRUCTURAL ENGINEER TO PREPARE SEALED (STAMPED) DETAILS AND CALCULATIONS FOR SEISMIC RESTRAINTS, ANCHORAGES FOR SEISMIC RESTRAINTS, AND ATTACHMENTS TO STRUCTURE FOR SEISMIC RESTRAINTS AS THEY RELATE TO THE SEISMIC RESTRAINT OF PLUMBING & MECHANICAL EQUIPMENT, DUCTS AND PIPING.

	DRAWING INDEX
SHEET NO.	DESCRIPTION
M0.1	MECHANICAL NOTES, LEGEND, INDEX, AND ABBREVIATIONS
M1.1	EXISTING MECHANICAL GROUND AND FIRST FLOOR PLANS
M1.2	EXISTING MECHANICAL SECOND FLOOR PLAN AND FAN SCHEDULE
M2.1	MECHANICAL FLOOR PLANS

			EXHAUST	FAN SCHEI	DULE							CF:CEILING RE:ROOF E			IF:INLINE FAN UB:UP BLAST	
MARK	LOCATION	SERVICE	MFR	MODEL	FAN TYPE	CFM	FAN SPEED (RPM)	S.P. IN "WG	ENCLOSURE	DRIVE TYPE .	ELECTRICAL			OPERATING	REMARKS	
WATER											HP/WATTS	AMPS	VOLTS/ Φ	FLA	WEIGHT	REMARKO
EF/1	1ST FLOOR	MEN'S TOILET	PANASONIC	FV-30VQ3	CF	220	877	0,25	ODP	DIRECT	64 W	0.5	115-1	_	20	1, 2, 3
EF/2	1ST FLOOR	WOMEN'S TOILET	PANASONIC	FV-30VQ3	CF	220	877	0.25	ODP	DIRECT	64 W	0.5	115-1	-	20	1, 2, 3
EF/3	1ST FLOOR	MEN'S SHOWER	PANASONIC	FV-08VQ5	CF	70	829	0.10	ODP	DIRECT	14.7 W	-	115-1	-	15	1, 2, 3
EF/5	2ND FLOOR	WOMEN'S TOILET	PANASONIC	FV-30VQ3	CF	240	877	0.25	ODP	DIRECT	64 W	0.5	115-1	-	20	1, 2, 3
EF/6	2ND FLOOR	MEN'S TOILET	PANASONIC	FV-30VQ3	CF	240	877	0.25	ODP	DIRECT	64 W	0.5	115-1	-	20	1, 2, 3
EF/8	3RD FLOOR	MEN'S TOILET	PANASONIC	FV-30VQ3	CF	240	877	0.25	ODP	DIRECT	64 W	0.5	115-1	-	20	1, 2, 3
EF/9	3RD FLOOR	WOMEN'S TOILET	PANASONIC	FV-30VQ3	CF	240	877	0.25	ODP	DIRECT	64W	0.5	115-1	-	20	1, 2, 3
EF/10	3RD FLOOR	TOILET	PANASONIC	FV-08VQ5	CF	75	829	0.10	ODP	DIRECT	14.7 W	=	115-1	-	15	1, 2, 3

I, PROVIDE WITH ROOF CURB, BIRD SCREEN, BACKDRAFT DAMPER, FOR MOUNTING SEE DETAIL 1/M2 . CONTROLLED BY OCCUPANCY SENSOR WITH 10 MIN. TIME DELAY

www.aedisarchitects.com 387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160 fax: (408)-300-5121

PROJECT

DISTRICT OFFICE RESTROOM RENOVATION

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

CONSULTANT 2

STAMP Exp. 6-30-12

Date Signed_

STATE

REVISIONS

No. Description

MILESTONES

09/06/13 05/27/14 100% CD

SHEET

MECHANICAL NOTES, LEGEND,

INDEX, AND **ABBREVIATIONS**

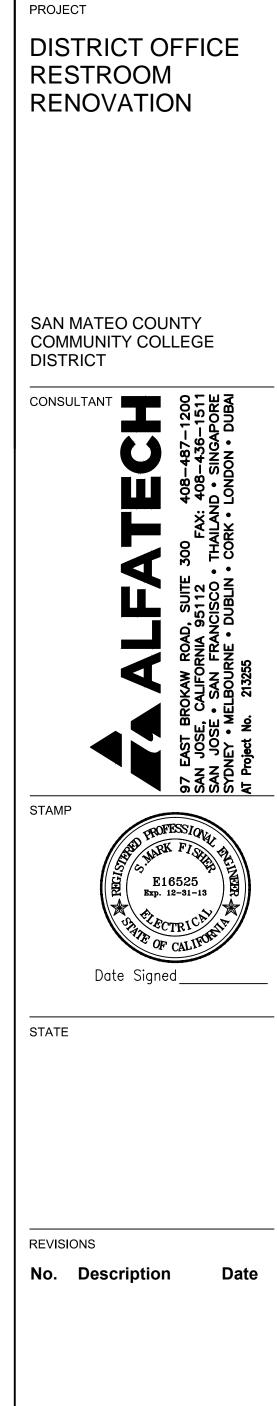
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 AS-BUILT DRAWING ISSUED FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL (E) SITE CONDITIONS.



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DD 09/06/13 100% CD 05/27/14

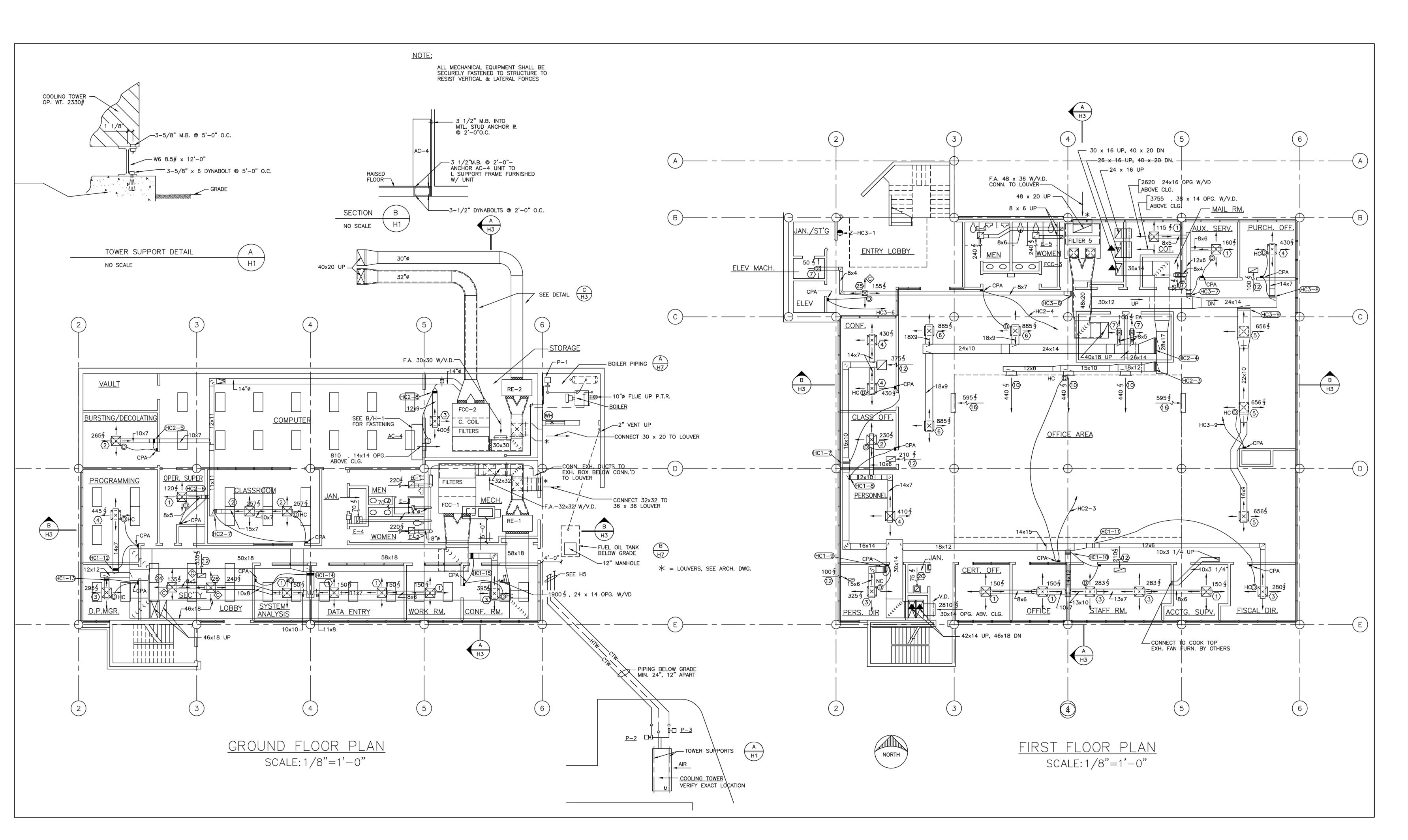
MILESTONES

SHEET

EXISTING
MECHANICAL
GROUND
AND FIRST
FLOOR
PLANS

05.27.2014 JOB # 2013028

M1.1



FOR REFERENCE ONLY



387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160 fax: (408)-300-5121

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PROJECT
DISTRICT OFFICE RESTROOM
RENOVATION
SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT
TOO PORE TOO DUBAL
408-487-1200 408-436-1511 D • SINGAPORE LONDON • DUBAI
300 4 FAX: 4 THAILAND CORK • L
AW ROAD, SIFORNIA 95 AN FRANCI
BROKAW CALIFOR CALIFOR MELBOUR CA13255
97 EAST BROKAW ROAD, SUITE SAN JOSE, CALIFORNIA 95112 SAN JOSE - SAN FRANCISCO SYDNEY • MELBOURNE • DUBLIN AT Project No. 213255
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Date Signed_
STATE
REVISIONS
No. Description Date

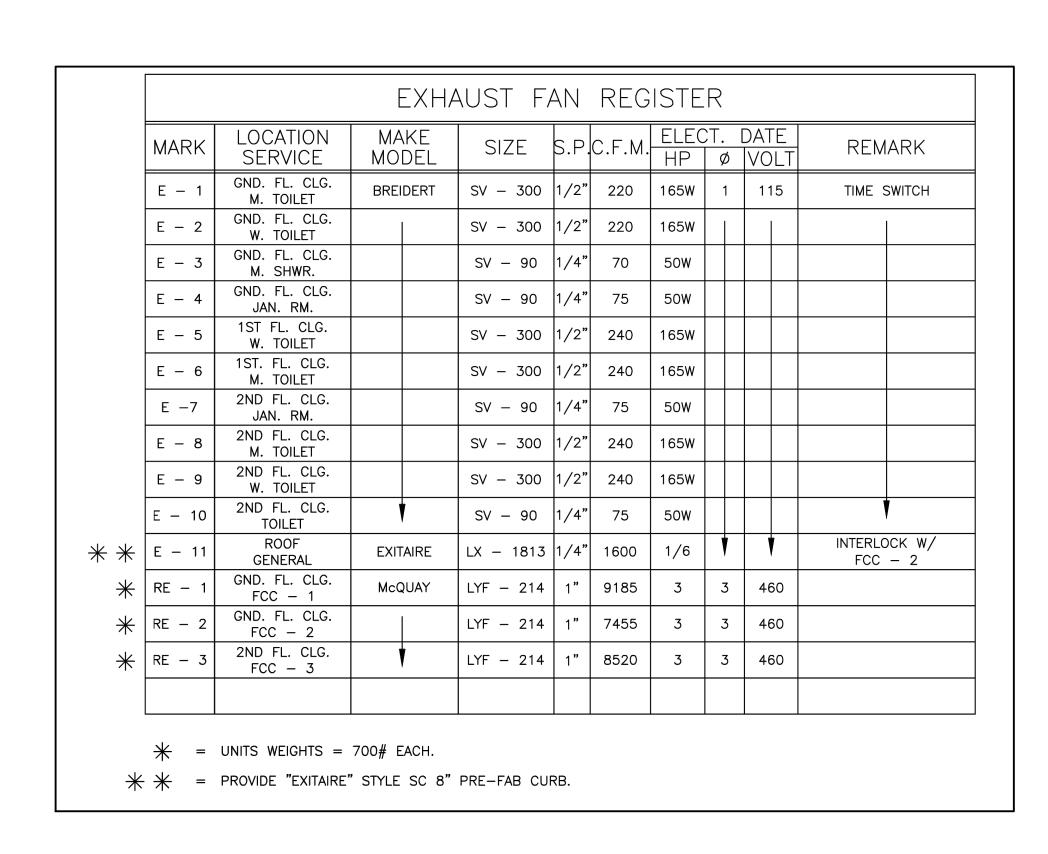
MILESTONES

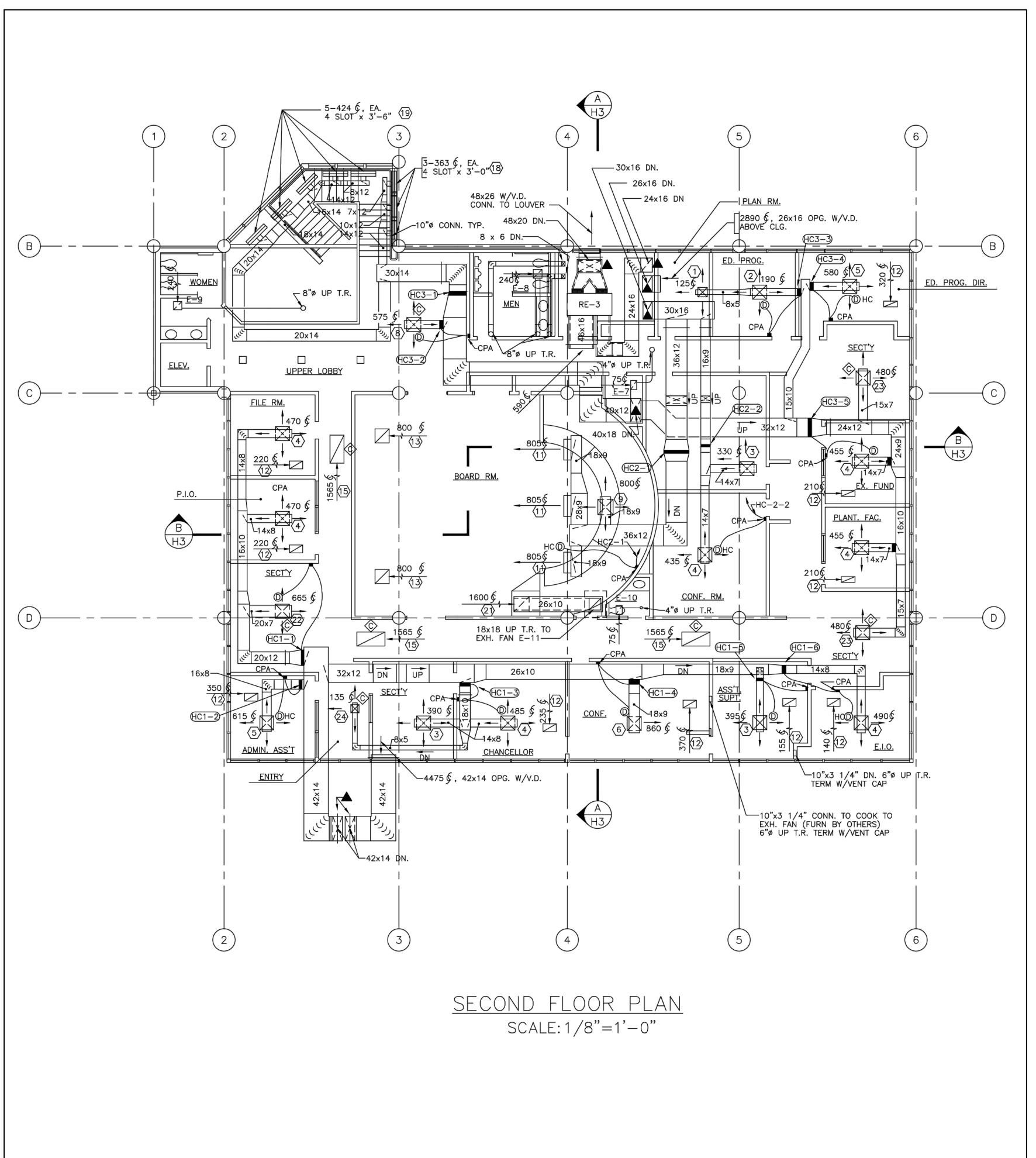
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EXISTING
MECHANICAL
SECOND
FLOOR PLAN
AND FAN
SCHEDULE

05.27.2014 JOB # 2013028

ET#





FOR REFERENCE ONLY

GENERAL NOTES:

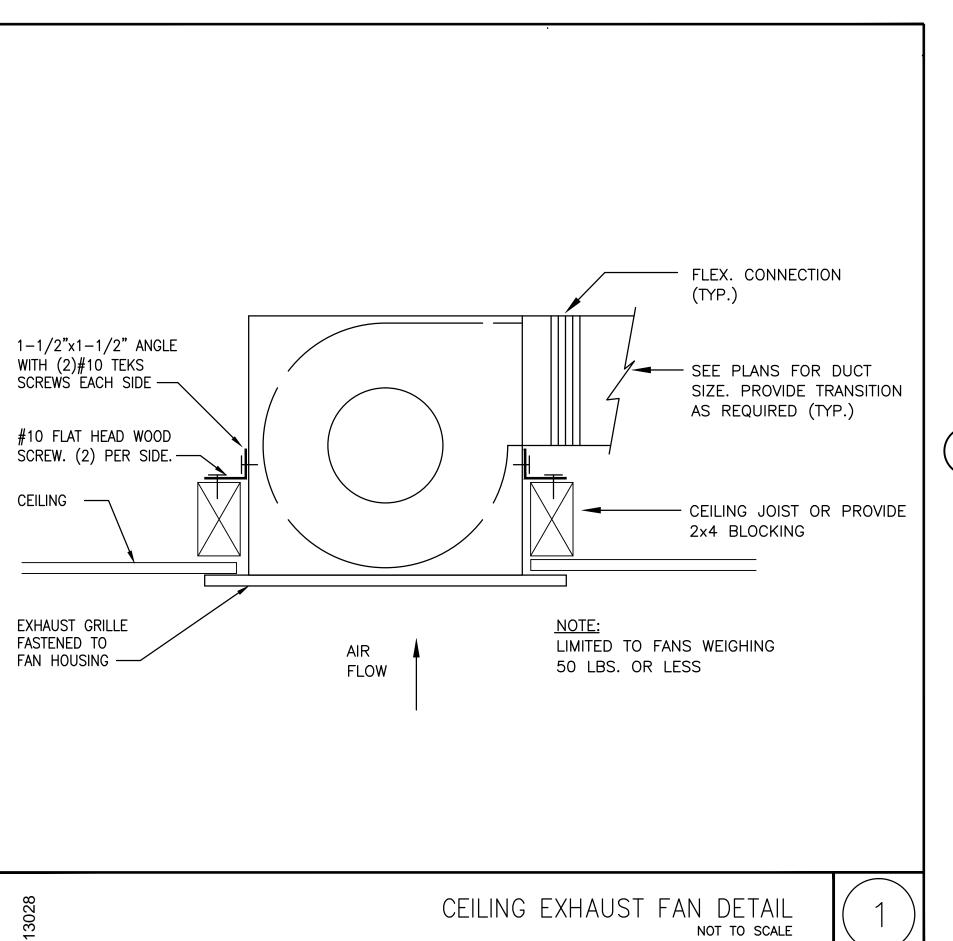
- 1. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING AND NEW BUILDING STRUCTURE, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF THE CONSTRUCTION WORK.
- 2. CONTRACTOR SHALL DEMOLISH AND DISPOSE OF EXHAUST FANS AND ASSOCIATED MOUNTING HANGERS/SUPPORTS INCLUDING ALL SCREWS AND BOLTS.
- 3. THIS DRAWING IS PREPARED BASED ON THE AVAILABLE RECORD DRAWING AND THE EXISTING CONDITIONS. ALL INFORMATION SHOWN ON THIS DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST AVAILABLE KNOWLEDGE, BUT WITH OUT GUARANTEE OR ACCURACY. ACTUAL AS BUILT CONDITIONS MAY BE DIFFERENT THAN RECORDED ON THIS DRAWING. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING AS BUILT CONDITIONS IN THE BUILDING.
- 4. CONTRACTOR TO FURNISHED AND INSTALL EMS CONTROL CABLE AND ASSOCIATED CONDUIT TO ALL HVAC EQUIPMENT AND CONNECTION TO TO EMS CONTROL PANEL
- 5. WHEREVER INDICATED OR REQUIRED AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, COORDINATE TO PROVIDE (N) WALL/FLOOR OPENINGS FOR ALL MECHANICAL WORK.
- 6. CONTRACTOR TO COORDINATE THE ELEVATIONS AND LOCATIONS OF WALL/FLOOR PENETRATIONS REQUIRED FOR DUCTWORK AND ALL MECHANICAL EQUIPMENTS WITH RESPECT TO BUILDING STRUCTURE AND ALL OTHER BUILDING SERVICES TO AVOID CONFLICTS.

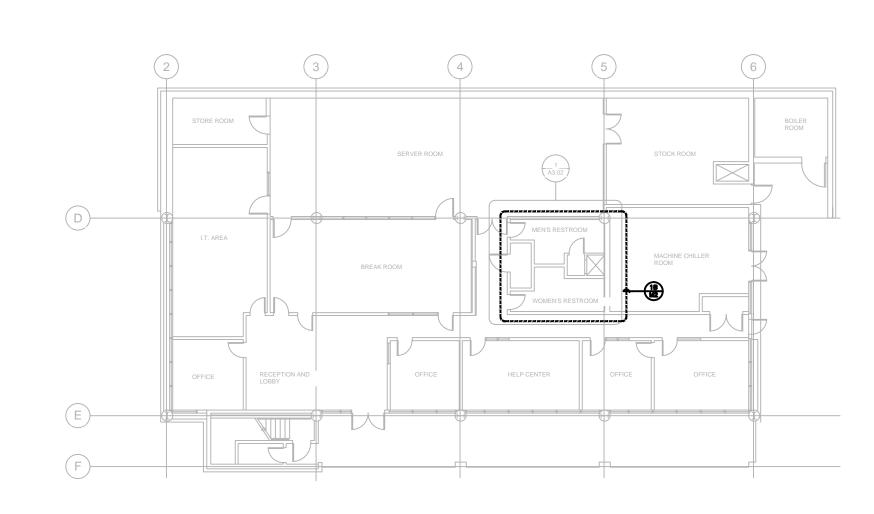
DEMOLITION NOTES:

- REMOVE (E) EXHAUST FAN, CONTROLS, AND ACCESSORIES. SEE FLOOR PLAN FOR NEW EXHAUST FAN INSTALLATION.
- (E) DUCT TO REMAIN. PRIOR TO CONNECTING (N) EXHAUST FAN, CONTRACTOR SHALL CLEAN OUT (E) DUCT VIA
 POINT-OF-CONNECTION IN DUCT. CLEAN OUT (E) DUCT UP TO FIRST ELBOW, AND AS FAR INTO THE DUCT AS ACCESS ALLOWS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING SYSTEM COMPONENTS (TO MATCH EXISTING) WHICH ARE DAMAGED/DESTROYED AS A RESULT OF THE CLEANING.

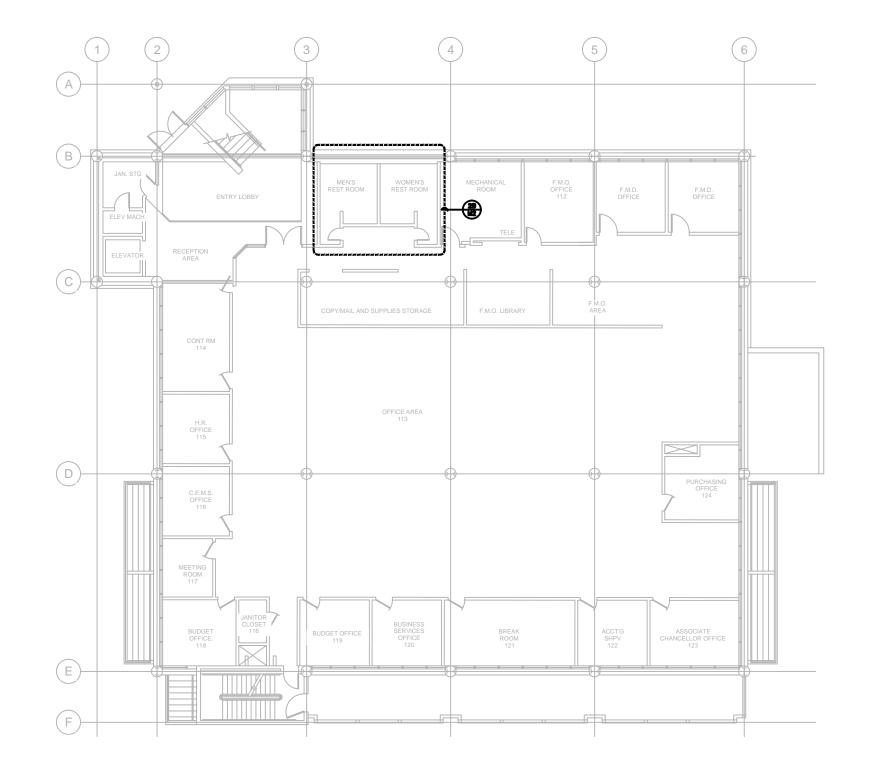
SHEET NOTES:

- NEW CEILING EXHAUST FAN. SEE 1/M2 FOR MOUNTING DETAILS
- POINT OF CONNECTION. PROVIDE DUCT FITTINGS AND TRANSITIONS AS REQUIRED TO MAKE CONNECTION TO EXISTING DUCT.
- 3 EXISTING EXHAUST DUCT TO REMAIN.

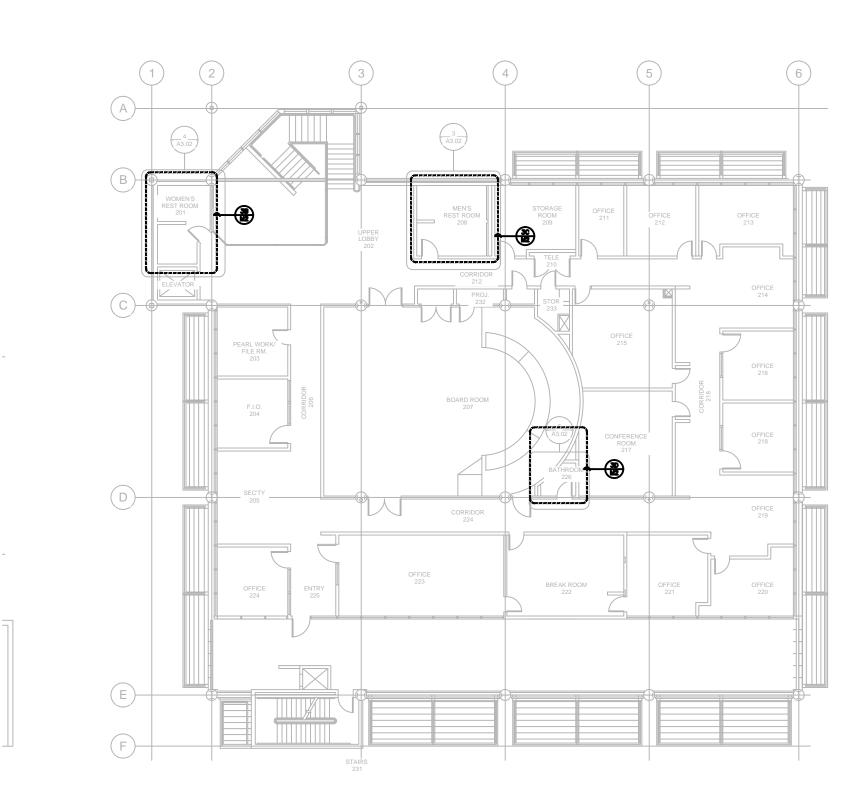




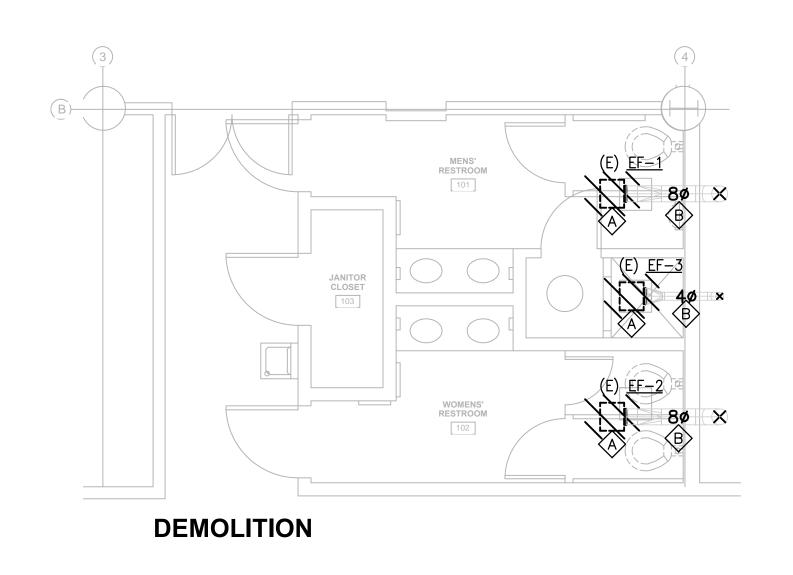
FIRST FLOOR PLAN SCALE: 1/16"=1'-0"

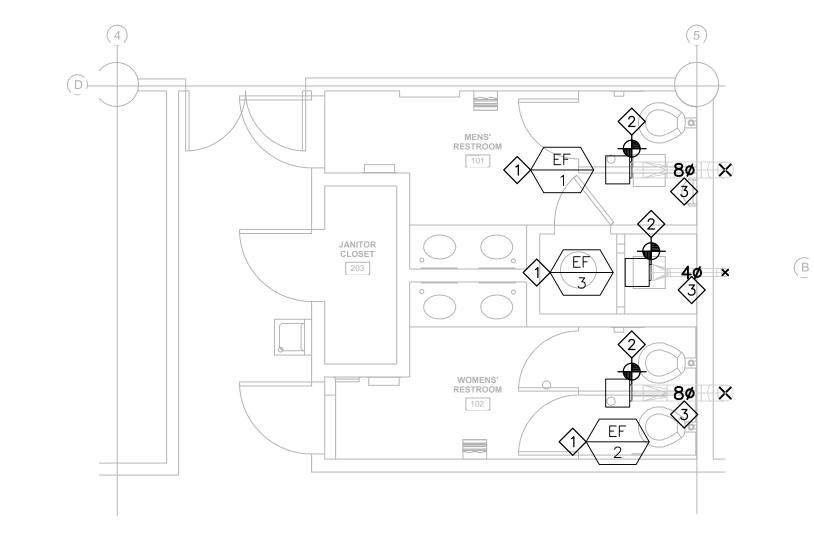


SECOND FLOOR PLAN SCALE: 1/16"=1'-0"

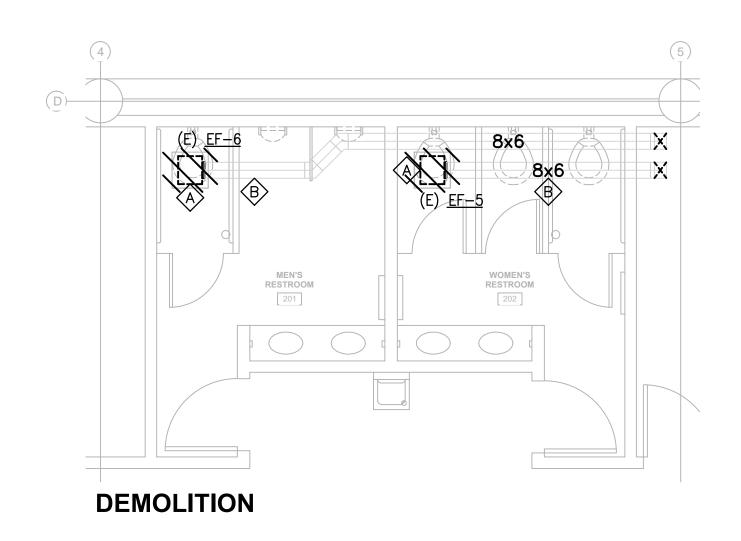


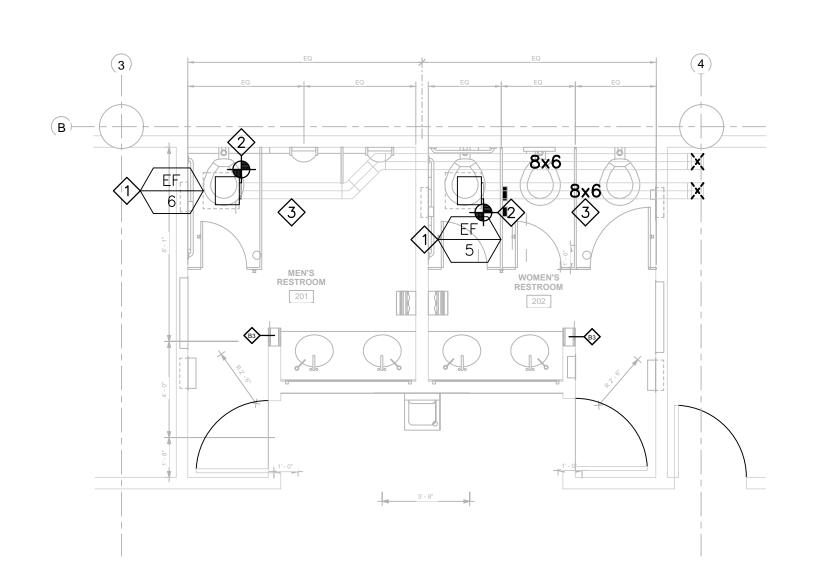
THIRD FLOOR PLAN SCALE: 1/16"=1'-0"



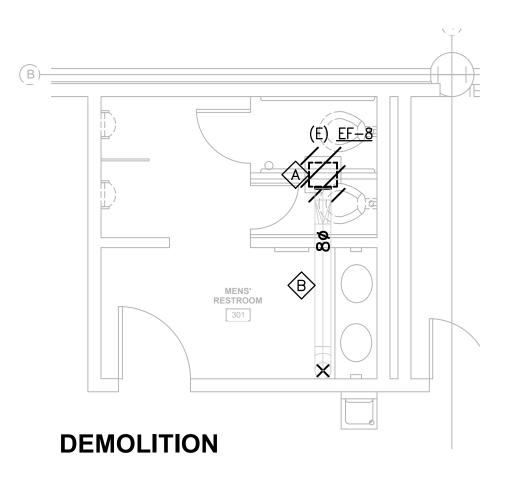


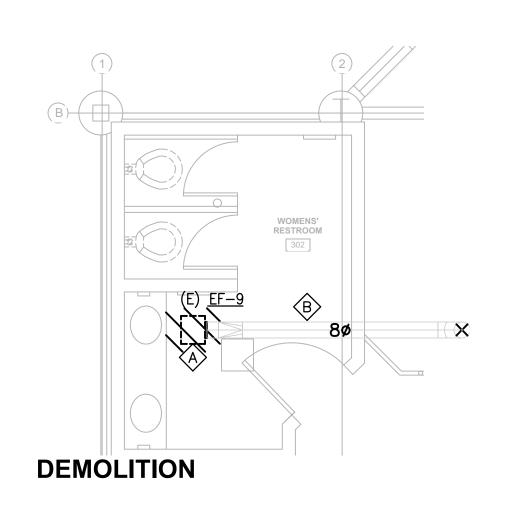
1B RESTROOM 1 M/W SCALE: 1/2" = 1'-0"

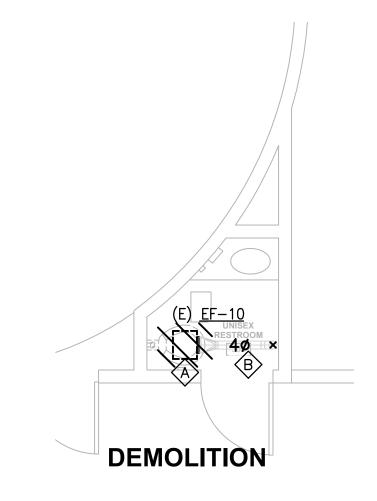


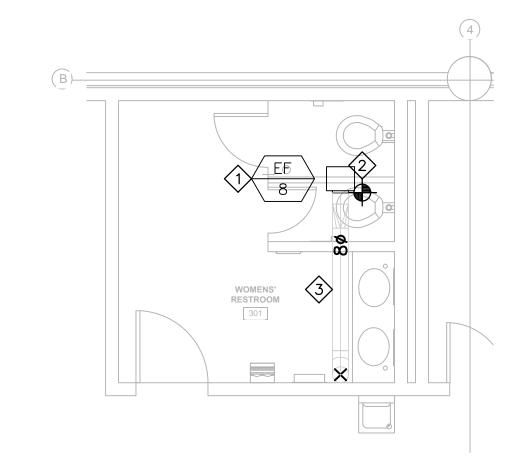


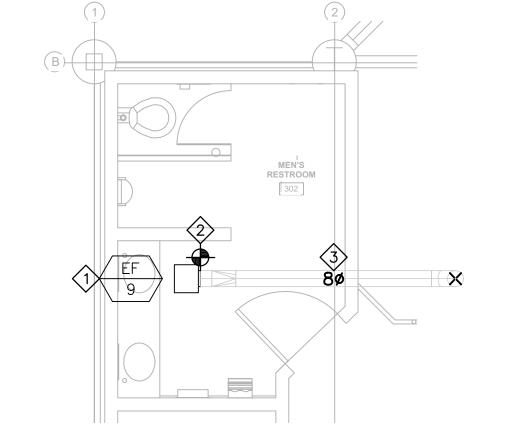
2B RESTROOM 2 M/W SCALE: 1/2" = 1'-0"

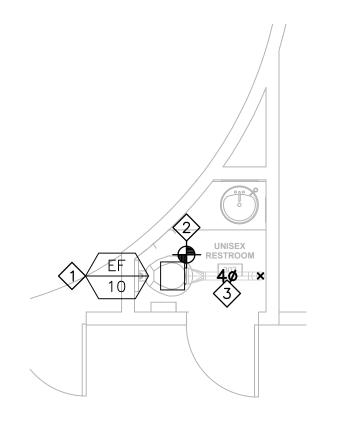












3B RESTROOM 3W SCALE: 1/2" = 1'-0"





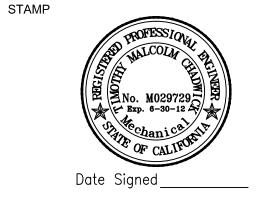


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DISTRICT OFFICE RESTROOM RENOVATION

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT

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SHEET

MECHANICAL FLOOR PLANS

05.27.2014 JOB# 2013028

ГЕЕТ#



* 2013028 ET#

ELECTRICAL SYMBOLS O O FLUORESCENT FIXTURE 1 POLE, 20A SPECIFICATION GRADE SWITCH. MOUNTED +44" U.O.N. a INDICATES LAMP SWITCHING. WALL MOUNTED OCCUPANCY SENSOR WITH DUAL OVERRIDE SWITCHES MOUNTED +44" U.O.N. WALL MOUNTED OCCUPANCY SENSOR WITH SINGLE OVERRIDE SWITCH MOUNTED +44" U.O.N. CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK JUNCTION BOX WITH COVER 20A-120V DUPLEX RECEPTACLE OUTLET, NEMA 520R SPECIFICATION GRADE. WALL MOUNTED +18" U.O.N. THE CENTER OF THE LOWEST DEVICE SHALL BE +15" AFF MINIMUM. HEAVY-DUTY FUSED DISCONNECT SWITCH, N.F. DENOTES NON FUSED, MOUNTED MANUAL MOTOR STARTER SWITCH FOR 3/4HP MOTORS AND BELOW. FIRE ALARM STROBE FLUSH MOUNTED PANELBOARD SURFACE MOUNTED PANELBOARD EXISTING TO BE RELOCATED RELOCATED EXISTING EXISTING TO REMAIN

GENERAL NOTES

<R> EXISTING TO BE REMOVED

- 1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE, AS ACCEPTED AND AMENDED BY LOCAL ORDINANCES.
- 2. ANY EQUIPMENT AND MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW, UNUSED AND FREE FROM DEFECTS.
- 3. FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY SCHOOL DISTRICT REPRESENTATIVE, TENANT AND ARCHITECT/ENGINEER. INSTALLATION APPROVAL
- SHALL BE BASED ON APPROVED SUBMITTAL, SHOP DRAWINGS AND LOCAL INSPECTIONS.

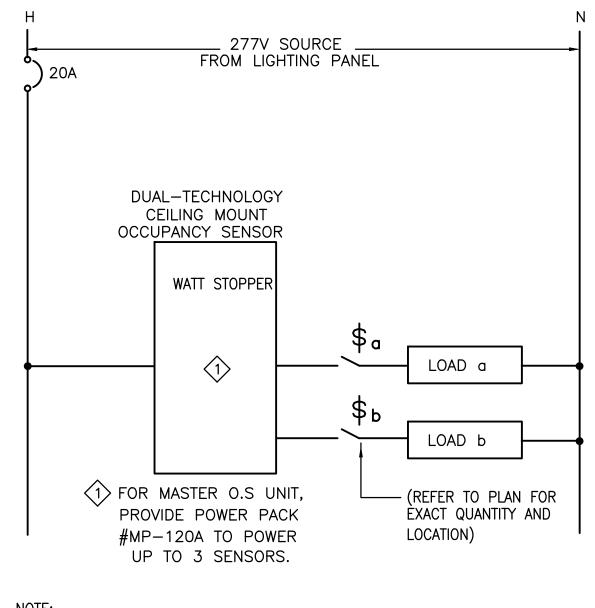
 4. ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND
- WORK AND GENERAL LAYOUT. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED.

 5. BRANCH CIRCUIT RACEWAY SHALL BE A MINIMUM OF 3/4" ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED. RACEWAYS IN RAISED FLOOR OR IN PLENUM SPACE
- SHALL BE A MINIMUM OF 3/4" RIGID GALVANIZED STEEL (RGS) OR RIGID ALUMINUM (RAL) UNLESS OTHERWISE NOTED. RACEWAY BETWEEN RECESSED LIGHT FIXTURES SHALL BE A MINIMUM OF 1/2" FLEXIBLE STEEL METAL CONDUIT UNLESS OTHERWISE NOTED.

 6. ALL INTERIOR OUTLET, JUNCTION AND PULL BOXES SHALL BE METALLIC, SIZED PER CODE
- FOR THE NUMBER OF CONDUCTORS THEREIN.
- 7. ALL ELECTRICAL RACEWAYS SHALL BE CONCEALED IN THE WALLS AND ABOVE SUSPENDED CEILING OR BELOW RAISED FLOOR UNLESS OTHERWISE NOTED.
- 8. ALL CONDUCTORS SHALL BE #12 AWG MINIMUM TYPE THHN/THWN UNLESS NOTED OTHERWISE.
- 9. PANELBOARD SHALL BE DOOR-IN-DOOR TYPE WITH COPPER BUSSING SIZE AS SHOWN ON PANEL SCHEDULES. EATON, SQUARE D, GE OR SIEMENS.
- 10. LIGHTING OCCUPANCY SENSOR SHALL BE PASSIVE INFRARED TYPE WITH COVERAGE TO SUIT AREA SIZE. WATT STOPPER, HUBBELL, NOVITAS OR LIGHTOLIER
- 11. ELECTRICAL DEVICES MOUNTED ON OPPOSITE SIDES OF THE FIRE RATED WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24". PENETRATIONS IN WALLS, FLOORS OR CEILING, WHICH REQUIRE PROTECTED OPENINGS SHALL BE FIRE—STOPPED WITH APPROVED MATERIAL SECURELY INSTALLED TO MAINTAIN INTEGRITY OF THE FIRE RATING. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND BE MAINTAINED AT THE JOB SITE.
- 12. ALL CEILING MOUNTED ELECTRICAL DEVICES AND/OR EQUIPMENT SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE NOT FROM CEILING TILE.
- 13. EXACT LOCATION OF SWITCHES, FLOOR OUTLETS AND CONDUIT STUBS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 14. SEAL AIRTIGHT ALL CONDUIT PENETRATIONS THROUGH ALL MECHANICAL PLENUM WALLS, INTERIOR AND EXTERIOR.
- 15. ALL CUTTING, PATCHING AT WALLS AND EXPOSED CONDUITS SHALL BE PAINTED TO MATCH ADJACENT FINISHED.

FIXTURE SCHEDULE									
TYPE	SKETCH	DESCRIPTION FINISH MANUFACTURE							
A		4' SURFACE MOUNTED LED FIXTURE WITH 3.5" SQAURE COLD ROLLED STEEL HOUSING, 0.125" FROSTED MATTE ACRYLIC LENS AND POWER DRIVER FOR 277VAC	ALIGHT LIGHTAIUM	A LIGHT D3-4-LS-35-2SH F-T ALW, OR APPROVED EQUAL	LS35 835 28W				
B		1"W, 2"D, 3'L RECESS MOUNTED LED FIXTURE WITH COLD ROLLED STEEL HOUSING AND REMOTE DRIVER ABOVE CEILING WITHIN 20' TO FIXTURE, 277VAC. MOUNT VERTICALLY NEXT TO MIRROR.	AL	ARCH. LIGHTING WORKS LPR1T-DRY-4LED5WW-LED 277-FLUSH-AL OR APPROVAL EQUAL	LED5WW 830 20W				
(B1)		SIMILAR TO TYPE "B" EXCEPT 2' IN LENGTH AND MOUNT HORIZONTALLY ABOVE MIRROR	AL	ARCH. LIGHTING WORKS LPR1T-DRY-2LED5WW-LED 277-FLUSH-AL OR APPROVAL EQUAL	LED5WW 830 10W				

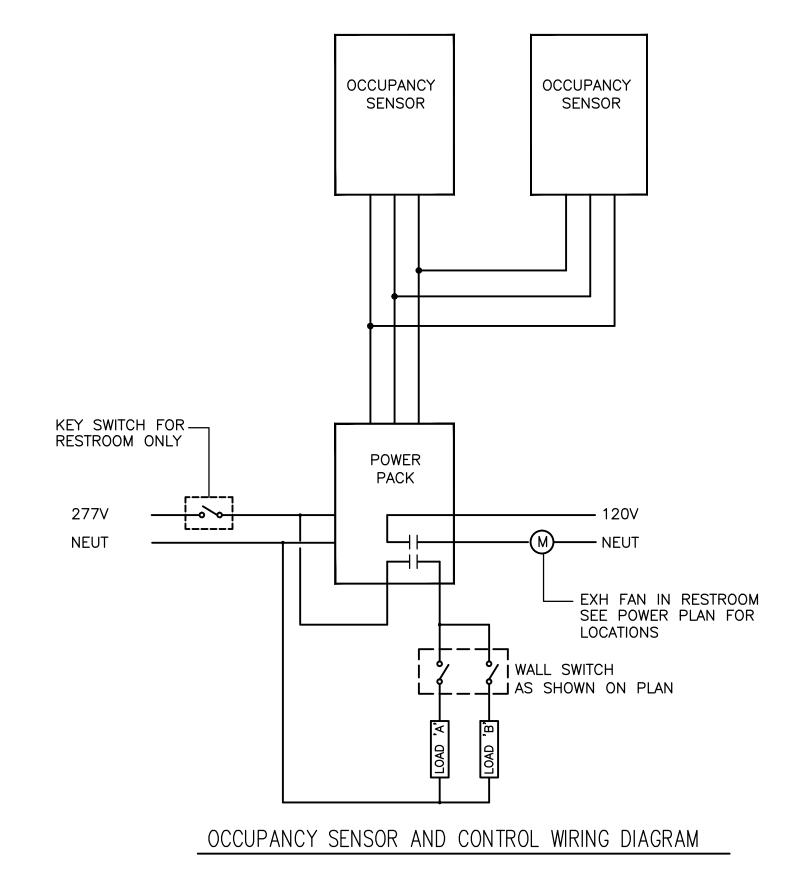
* APPROVED EQUAL = ALL PRODUCT SHALL BE OF THE SAME GRADE. THE ENGINEER SHALL DETERMINE IF THE SUBMITTED PRODUCT IS EQUAL TO THE SPECIFIC PRODUCT.



NOTE:

1. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS IN CLASSROOMS.

1 TYPICAL LIGHTING CONTROL FOR AREAS WITH CEILING-MOUNTED OS & LINE-VOLTAGE SWITCH NOT TO SCALE



2 OCCUPANCY SENSOR CONTROL FOR LIGHT AND FAN NOT TO SCALE



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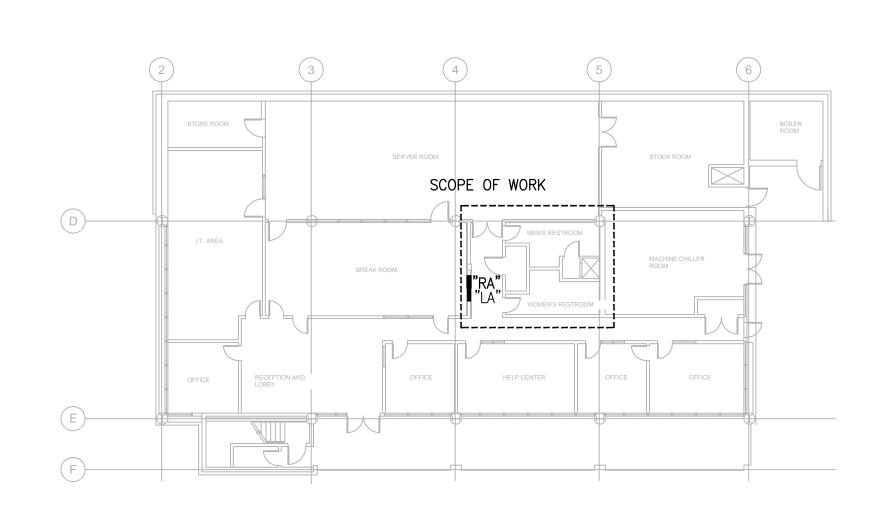
SHEET

ELECTRICAL SYMBOLS, NOTES AND

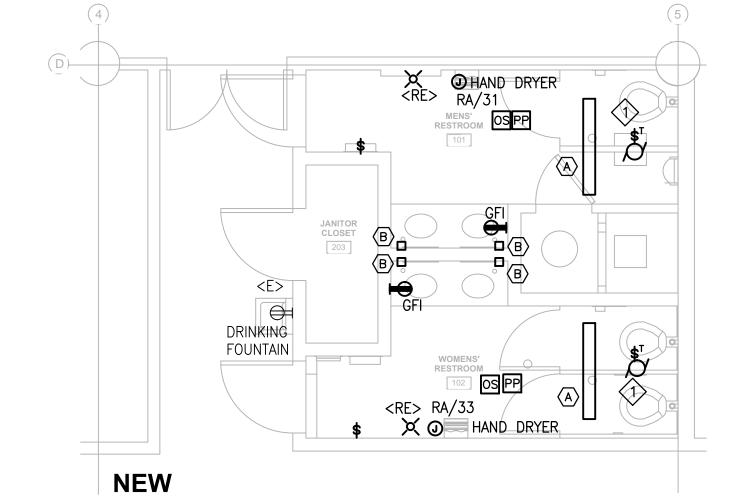
05.27.2014 JOB # 2013028

DETAILS

E0.01



DRINKING FOUNTAIN





GENERAL NOTES:

SHOWN <RE>.

SHEET NOTES:

CONTROL.

<R> - DISCONNECT AND REMOVE <E> DEVICE AS SHOWN ON DEMOLITION PLANS. INTERCEPT AND EXTEND <E> CIRCUITRY FOR CONNECTION TO NEW DEVICE AS SHOWN ON NEW PLANS.

2. <RL> - DISCONNECT AND RELOCATE <E> DEVICE TO NEW LOCATION AS SHOWN. RETAIN <E> DEVICE AND INTERCEPT <E> CIRCUITRY FOR RECONNECTION AT NEW LOCATION AS

3. REFER TO E01 FOR LIGHTING CONTROL DIAGRAMS.

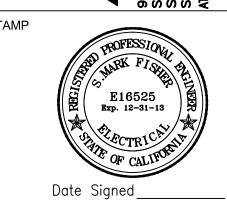
4. VERIFY POWER CIRCUITS FOR HAND DRYERS PRIOR TO INSTALLATION.

CONNECT NEW EXHAUST FAN TO <E> CIRCUIT VIA NEW OCCUPANCY SENSOR POWER PACK FOR 120V/277V

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PROJECT DISTRICT OFFICE RESTROOM RENOVATION

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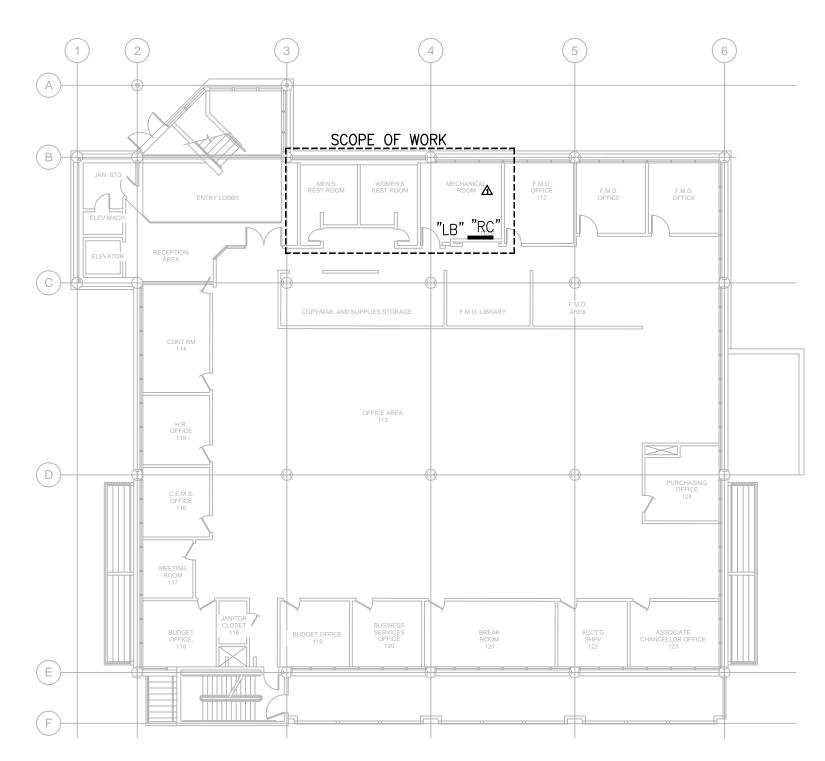
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ELECTRICAL PLANS

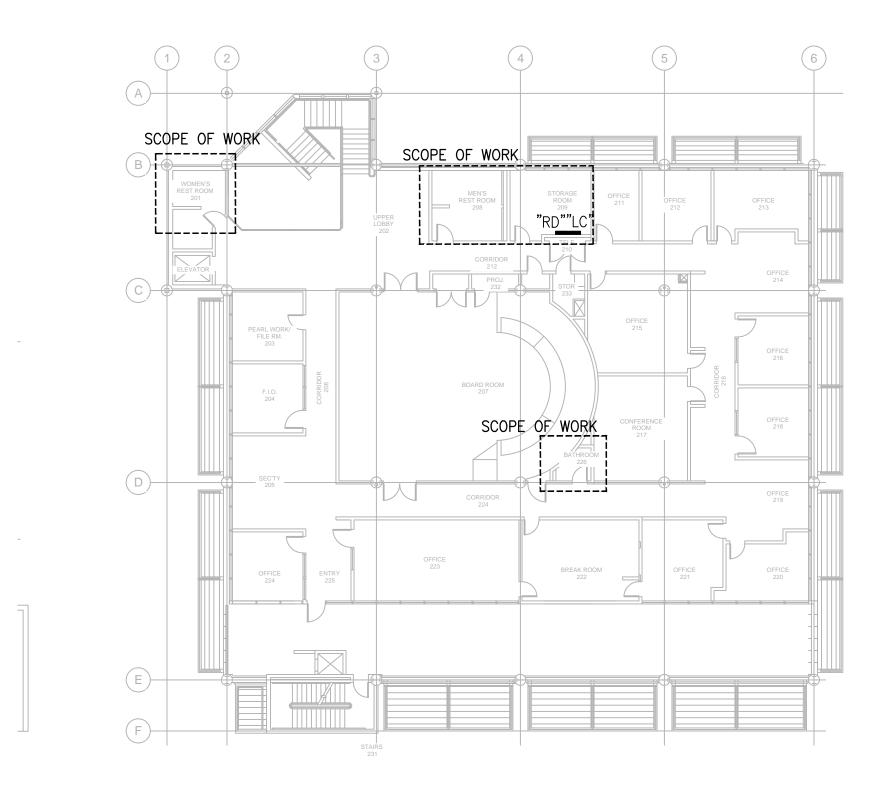
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E2.01

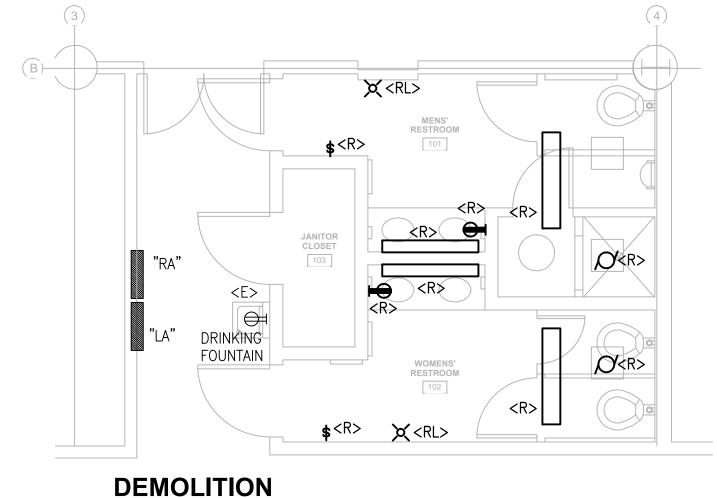


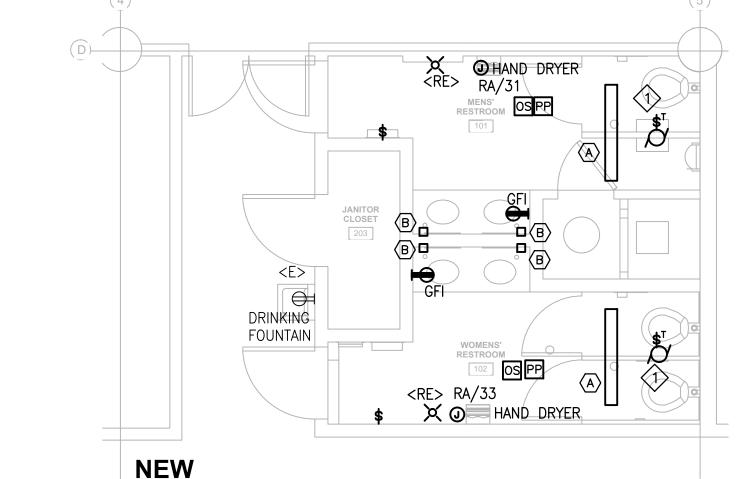


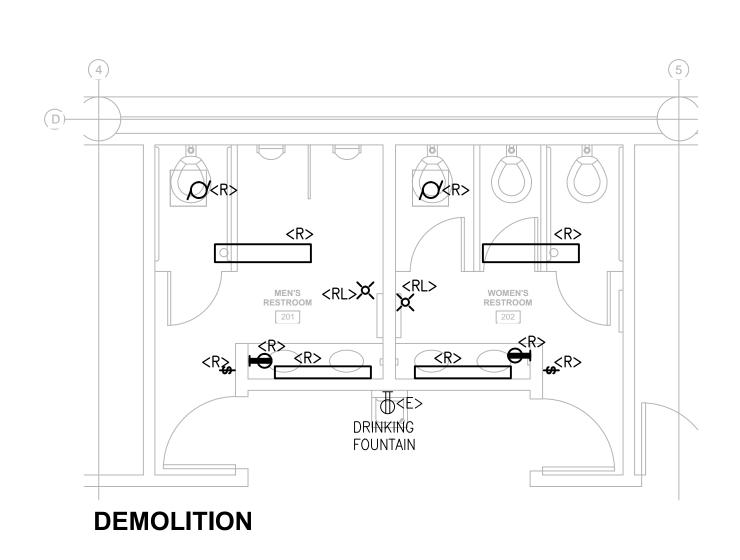


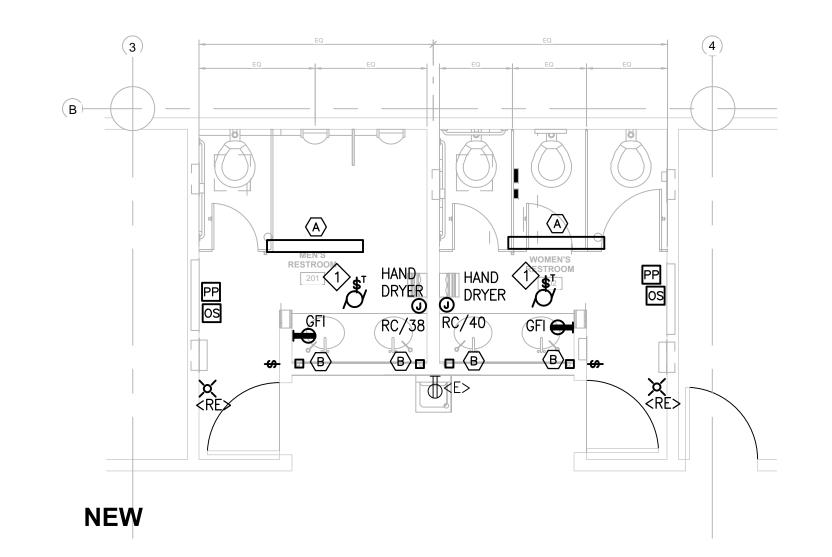


3A THIRD FLOOR PLAN SCALE: 1/16"=1'-0"

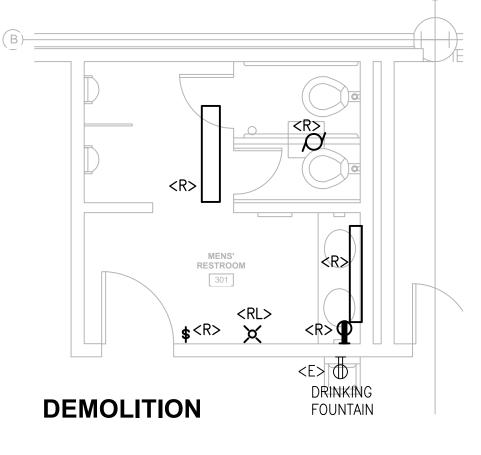


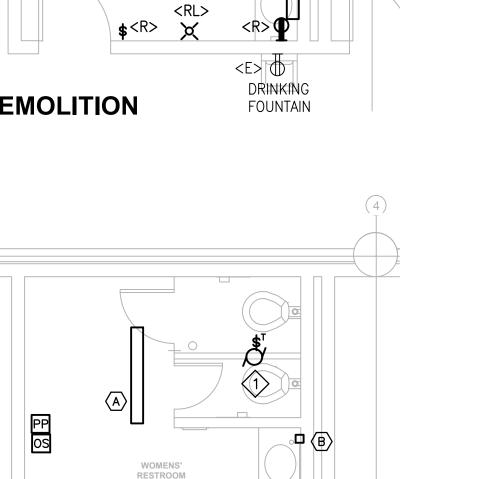






2B RESTROOM 2 M/W SCALE: 1/2" = 1'-0"



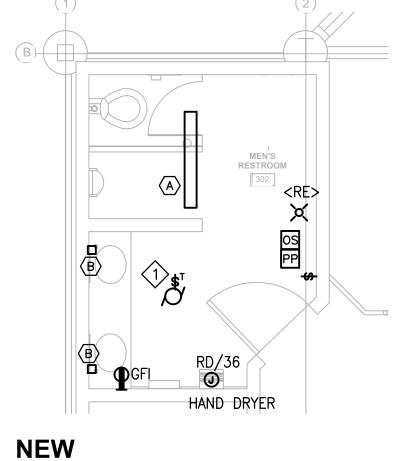


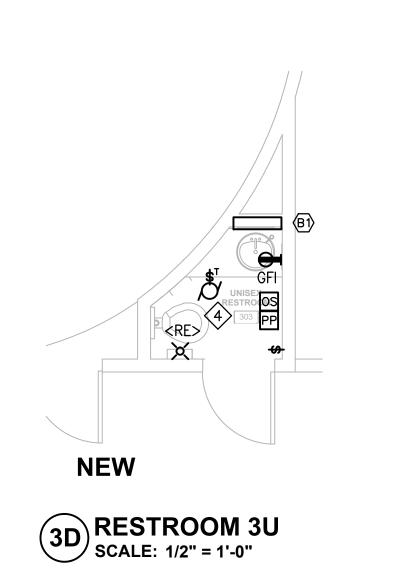
\$ RD/34 \$ CRE> GFI P B

NEW

RESTROOM 3W SCALE: 1/2" = 1'-0"

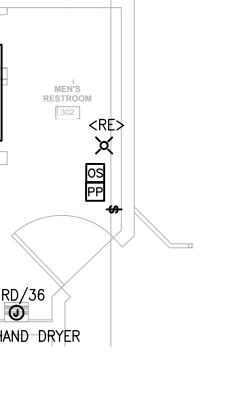
く上)(W) DRINKING FOUNTAIN





DEMOLITION

NEW 3C RESTROOM 3M SCALE: 1/2" = 1'-0"



DEMOLITION

PLUMBING FIXTURE SCHEDULE

MINIMUM SUPPLY

GENERAL NOTES

- 1. EXISTING INFORMATION SHOWN ON FLOOR PLANS IS FROM RECORD DOCUMENT DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD FOR UNDERGROUND PIPING, ELECTRONIC PIPE LINE FINDER SHALL BE USED BEFORE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL ALSO REPORT DISCREPANCIES OR INCONSISTENCIES BETWEEN THE SPECIFIED DESIGN AND EXISTING CONDITIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK.
- 2. THE SUBMISSION OF A BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF WORK. THE CONTRACTOR, PRIOR TO BIDDING, SHALL CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL IN THE BID PROPOSAL INCLUDE ALL LABOR AND MATERIAL REQUIRED TO COMPLETE THE SYSTEM.
- 3. CONTRACTOR SHALL COMPLETE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEMS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER TWO WEEKS IN ADVANCE ON OFF HOURS OR OVERTIME.
- 5. ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.6. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND LEAVE
- 7. IN THE AREA OF THE NEW CONSTRUCTION WILL BE FOUND A NUMBER OF EXISTING SERVICES. PROTECT ALL ACTIVE LINES AND MAINTAIN SAME IN GOOD OPERATING CONDITION.

WORK AREA CLEAN DAILY.

- 8. UNDERGROUND EXISTING SANITARY DRAIN PIPING SHALL BE FLUSH, SNAKE & CLEAN INSIDE THE BUILDING AND OUT SIDE BUILDING TO THE 1ST CLEANOUT OR MANHOLE COORDINATE WITH DISTRICT FACILITY PRIOR TO CLEAN THE PIPING.
- 9. PROTECT EXISTING BUILDING STRUCTURES AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH THESE ITEMS DAMAGED OR IMPACTED BY WORK UNDER THIS DIVISION TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING, REPAIRING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED.
- 10. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW BY ARCHITECT.
 ANY PORTION OF THE WORK DEEMED DEFECTIVE SHALL BE REPLACED BY THE
 CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE
 OWNER.
- 11. ABSOLUTE ACCURACY OF DRAWINGS CAN NOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATION OF THE EXISTING EQUIPMENT, PIPING, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS.
- 12. ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS OR LACK OF COORDINATIION WITH OTHER TRADES SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER AND SUBJECT TO REVIEW BY THE ARCHITECT, PRIOR TO DOING SUCH WORK.
- 13. DO NOT DAMAGE ANY (E) STRUCTURAL MEMBERS INCLUDING ANY (E) FOUNDATIONS WITHOUT APPROVAL FROM THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER.
- 14. PENETRATIONS IN WALLS, FLOORS OR CEILINGS WHICH REQUIRE PROTECTED OPENINGS SHALL BE FIRE—STOPPED. FIRE—STOPPING SHALL BE OF AN APPROVED MATERIAL, SECURELY INSTALLED AND CAPABLE OF MAINTAINING ITS INTEGRITY WHEN SUBJECTED TO THE TIME—TEMPERATURE CURVE OF STATE FIRE MARSHALL STD. MFG.'S INSTALLATION INSTRUCTIONS, SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITY AND BE MAINTAINED AT THE JOB SITE.

PLUMBING DRAWING INDEX							
SHEET NO.	DESCRIPTION						
P1	PLUMBING LEGEND, NOTES AND DRAWING INDEX						
P2	PLUMBING FLOOR PLANS						

	P	LUMBING LEGEND
SYMBOL	ABBREV.	DESCRIPTION
	S	SANITARY PIPE ABOVE GRADE OR FLOOR
	S	SANITARY PIPE BELOW GRADE OR FLOOR
	٧	VENT PIPE ABOVE OR BELOW FLOOR
<u> </u>	DCW	DOMESTIC COLD WATER ABOVE CEILING U.O.N.
	DHW	DOMESTIC HOT WATER ABOVE CEILING U.O.N.
	DHWR	DOMESTIC HOT WATER RETURN ABOVE CEILING U.O.N.
—cD—	CD	CONDENSATE DRAIN
─	CFF	CAP FOR FUTURE
<u></u>		LINE CONTINUED
 °	UP	PIPE UP
 ⇒	DN	PIPE DOWN
─		PIPE RISE OR DROP
		PIPE CONNECTION FROM TOP
—		PIPE CONNECTION FROM BOTTOM
		PIPE CONNECTION FROM SIDE
-		DIRECTION OF FLUID FLOW
 		UNION
—— I	WCO	WALL CLEANOUT
•	FD	FLOOR DRAIN
Φ	FC0	FLOOR CLEANOUT
•+	НВ	HOSE BIBB
- -\$		GAS COCK
- ⋈-	BV	BALL VALVE
→ X		PRESSURE REGULATOR
<u></u>	WHA	WATER HAMMER ARRESTER
—⊗—		VALVE IN VALVE BOX
<i>HH</i> .		BOLD LINE WEIGHT INDICATES NEW WORK
		SLASHED LINES INDICATE (E) WORK TO BE DEMOLISHED
		LIGHT LINE WEIGHT INDICATES EXISTING WORK
— G —	G	NATURAL GAS PIPE ABOVE CEILING & ON ROOF UNLESS OTHERWISE NOTED
<u>— мс — </u>	MG	MEDIUM GAS
^	SL	SLOPE
<u> </u>	455	SHEET NOTE
	AFF AP	ABOVE FINISHED FLOOR ACCESS PANEL
	CD	CONDENSATE DRAIN
	CTE	CONNECT TO EXISTING
	<e></e>	EXISTING-UNLESS ITEM IS NOTED AS EXISTING IT IS
	EWH	PART OF THE NEW WORK ELECTRIC WATER HEATER
	F	FUTURE
	FC	FAN COIL
	FS	FLOOR SINK
	GVTR	GAS VENT THRU ROOF
	ΙE	INVERT ELEVATION
	IRR	IRRIGATION
	NTS	NOT TO SCALE
	PD	PUMP DISCHARGE
	PRV	PRESSURE REGULATING VALVE
	RHB	RECESSED HOSE BIBB
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	RO	ROUGH-IN ONLY
	SAD	SEE ARCHITECT DRAWINGS
	SD	STORM DRAIN
	SOV	SHUT-OFF VALVE
	TPL	TRAP PRIMER LINE
	TYP	TYPICAL LINDER SLAP
	US	UNDER SLAB
	U.O.N. VR	UNLESS OTHERWISE NOTED VENT RISE
	VTR	VENT THRU ROOF
	WH	WATER HEATER



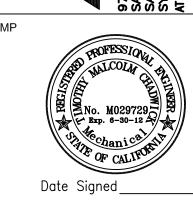
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PLUMBING LEGEND, NOTES AND DRAWING INDEX

09/06/13 05/27/14

05.27.2014 JOB # 2013028

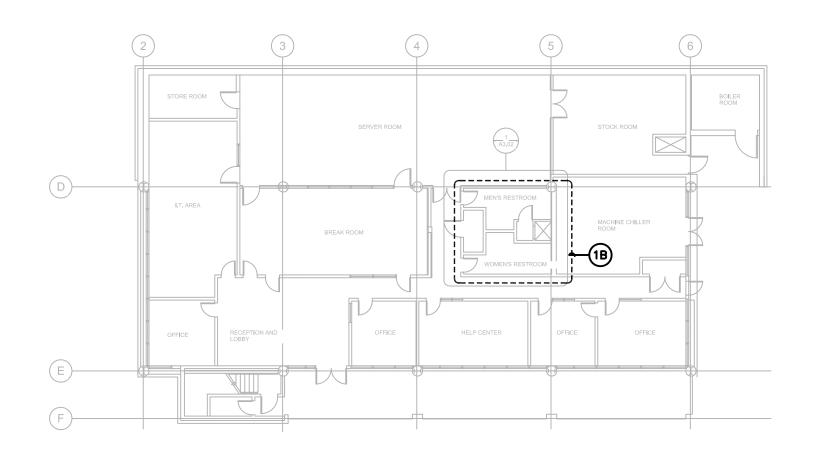
P1

DEMOLITION NOTES:

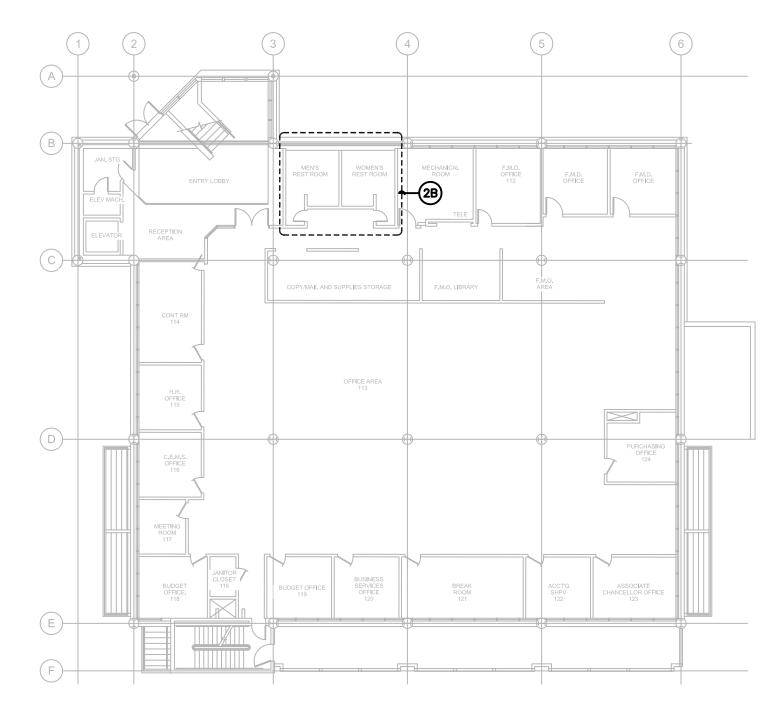
- REMOVE PLUMBING FIXTURE AND RELATED PIPING. TEMPORARILY CAP UTILITY STUB-OUTS FOR FUTURE USE.
- 2 EXISTING TO REMAIN.
- REMOVE (E) FLOOR DRAIN AND TEMPORARILY CAP WASTE PIPING BELOW FLOOR FOR FUTURE USE. AS REQUIRED PROVIDE CUTTING AND PATCHING OF SURFACES AND FINISHES REQUIRED TO FACILITATE THIS WORK.
- REMOVE EXISTING PLUMBING FIXTURES AND UTILITIES. CAP DRAIN PIPE BELOW THE FLOOR AND OTHER UTILITIES IN THE WALL OR ABOVE THE CEILING. PROVIDE CUTTING AND PATCHING OF SURFACES AND FINISHES TO COMPLETE THIS WORK.
- \$\sqrt{5}\$ REMOVE PLUMBING FIXTURE CAP WASTE/WATER SUPPLY INSIDE WALL SPACE AND PATCH OPENING TO MATCH (E) FINISH WALL.
- REMOVE (E) WATER CLOSET AND RELATED PIPING. TEMPORARILY CAP WASTE PIPE BELOW FLOOR, VENT/WATER PIPING INSIDE WALL SPACE FOR FUTURE USE. PATCH OPENING TO MATCH (E) FINISH.
- CONTRACTOR SHALL FIELD VERIFY IF THERE IS AN EXISTING TRAP PRIMER OR NOT. IF IT IS EXIST REPLACE TRAP PRIMER. IF NOT PROCEED WITH NEW WORK AS SHOWN ON THE NEW FLOOR PLAN.
- REMOVE (E) SHOWER AND RELATED PIPING. CAP WASTE PIPE BELOW FLOOR, VENT/WATER PIPING INSIDE WALL SPACE. PROVIDE CUTING AND PATCHING OPENING TO MATCH (E) FINISH.

SHEET NOTES (NEW WORK):

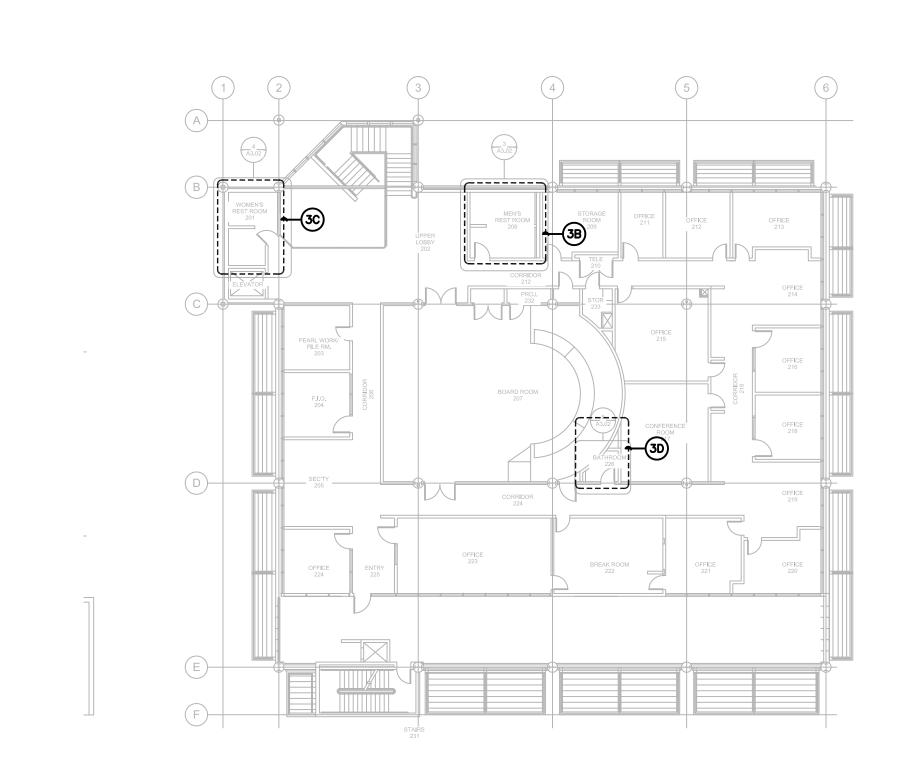
- INSTALL NEW PLUMBING FIXTURE, RECONNECT ROUGH-INS TO (E) STUB-OUTS. MODIFY AS REQUIRED.
- install new floor drain and connect to (e) waste pipe below floor. Run primer line inside wall space and tie-in to wc-24 primer valve. See plumbing schedule.
- install plumbing fixture connect rough—ins to (E) plumbing systems below floor.
- EXISTING UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION OF THE NEW SYSTEMS. EXTEND AND CONNECT NEW UTILITIES TO THE EXISTING. PROVIDE CUTTING AND PATCHING OF SURFACES AND FINISHES REQUIRED TO FACILITATE THIS WORK.



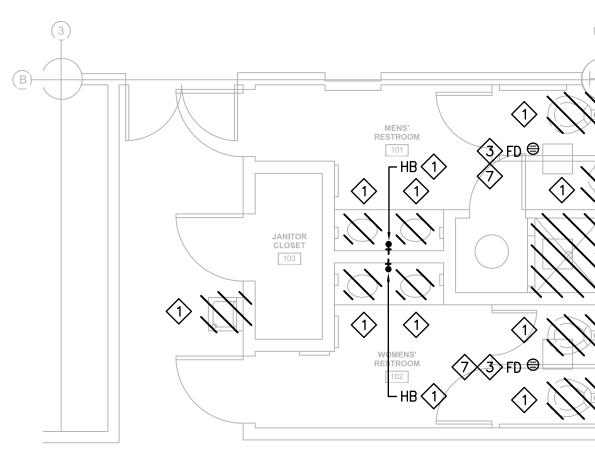
TA FIRST FLOOR PLAN SCALE: 1/16"=1'-0"



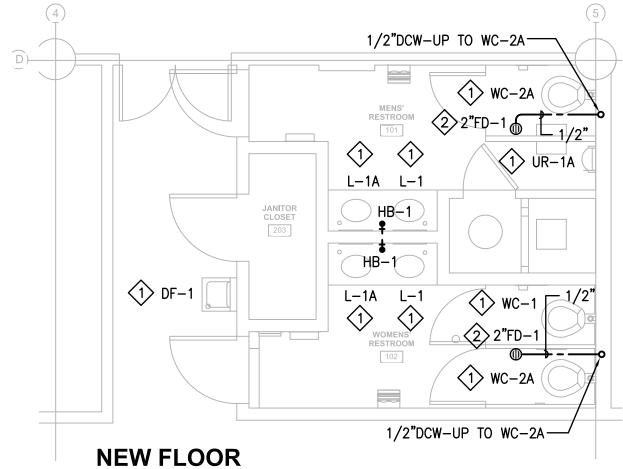
SECOND FLOOR PLAN SCALE: 1/16"=1'-0"



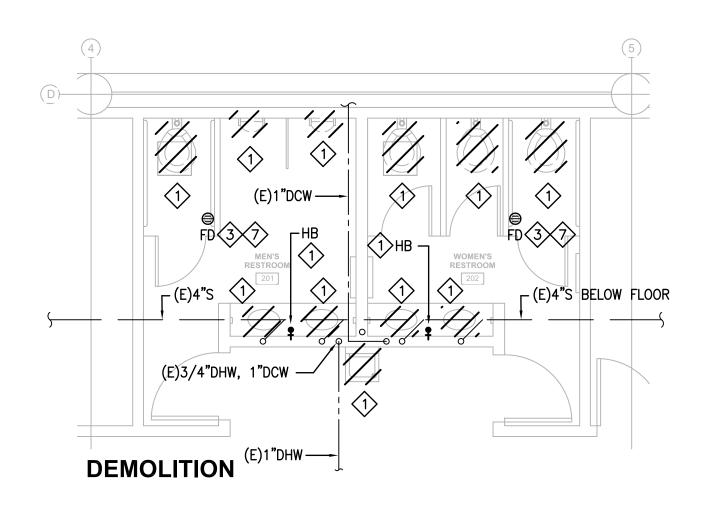
THIRD FLOOR PLAN SCALE: 1/16"=1'-0"



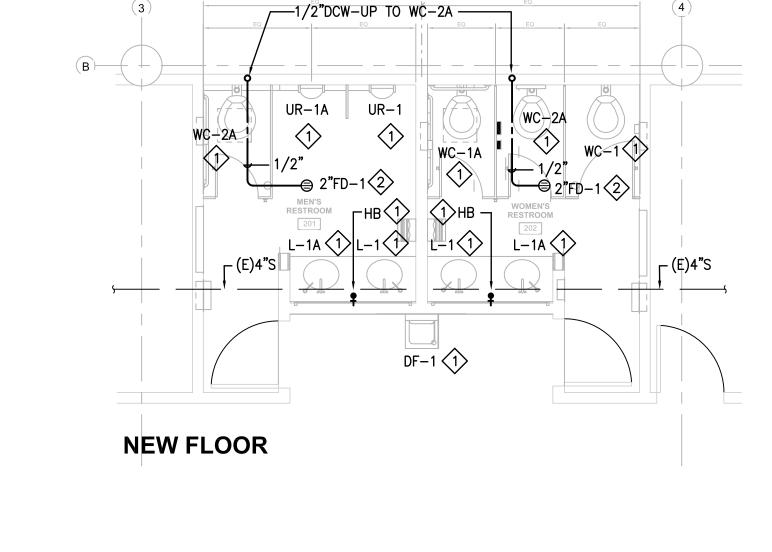
DEMOLITION

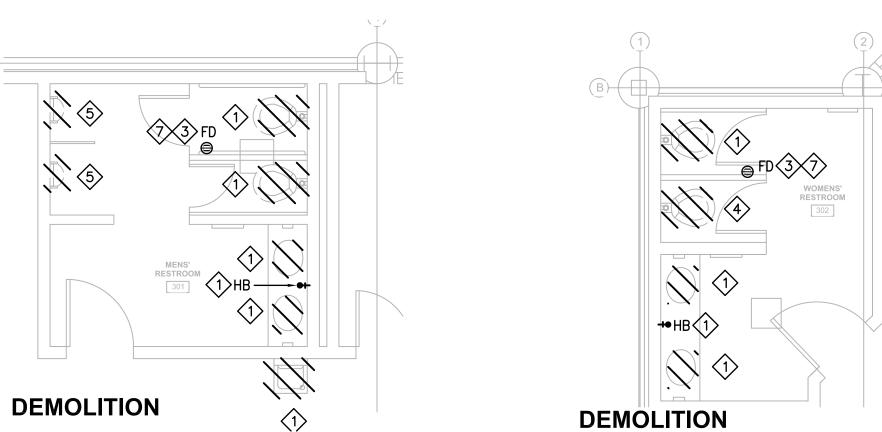


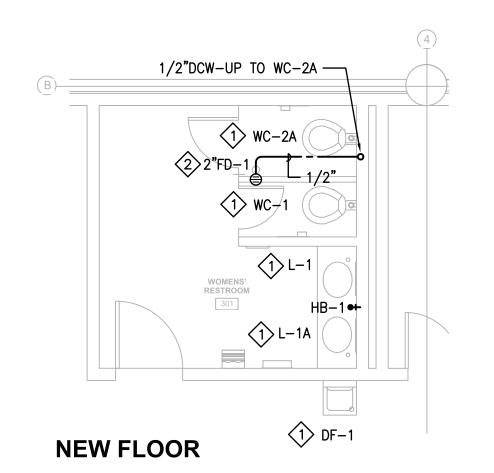
RESTROOM 1 M/W SCALE: 1/2" = 1'-0"

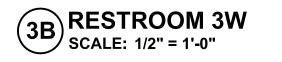


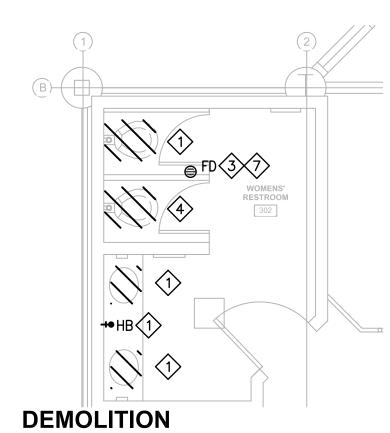
RESTROOM 2 M/W SCALE: 1/2" = 1'-0"

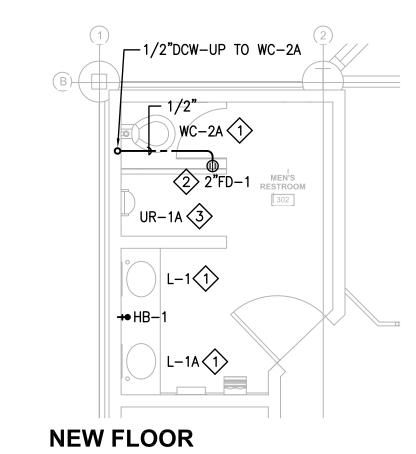




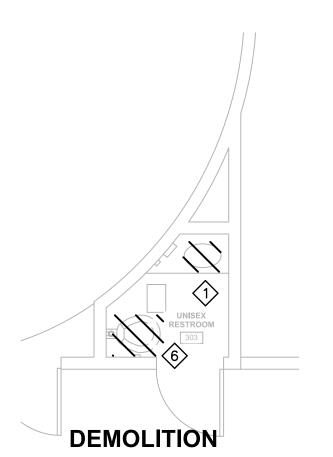


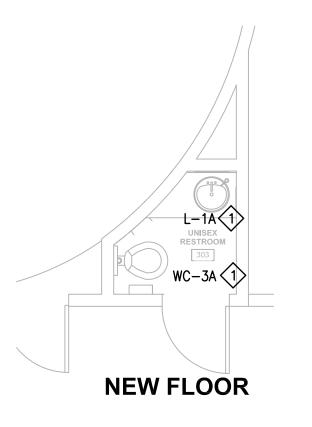












RESTROOM 3U SCALE: 1/2" = 1'-0"



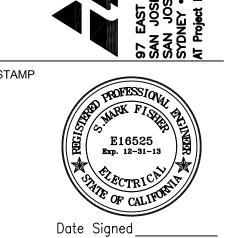
www.aedisarchitects.com 387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160 fax: (408)-300-5121

PROJECT DISTRICT OFFICE

RESTROOM

RENOVATION

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT



STATE

REVISIONS No. Description

MILESTONES DD 100% CD 05/27/14

SHEET

09/06/13

PLUMBING FLOOR

PLANS

05.27.2014 2013028

P2