# GENERAL NOTES

- THE SCHOOL IS TO REMAIN OCCUPIED DURING THE CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH THE DISTRICT A SEQUENCE FOR THE WORK. THE CONTRACTOR SHALL NOTIFY THE SCHOOL PERSONNEL WHEN THE CONSTRUCTION NOISES WILL BE EX-CESSIVE. THE CONTRACTOR SHALL RESCHEDULE WORK IF SO REQUIRED BY THE SCHOOL PERSONNEL.
- 2. CONTRACTOR SHALL PROVIDE WRITTEN REQUESTS FOR ANY MECHANICAL ECTRICAL OR PLUMBING SHUT-DOWNS AT LEAST THREE DAYS PRIOR O EVENT. WORK REQUIRING SHUT-DOWNS MAY BE REQUIRED TO BE PERFORMED OUTSIDE NORMAL WORK HOURS. PROVIDE THE FOLLOWING INFORMATION:
  - SYSTEMS AFFECTED AREAS AFFECTED PLANNED TIME AND LENGTH OF INTERRUPTION
- 3. WORK SHALL NOT COMMENCE UNTIL RECEIPT OF WRITTEN NOTICE TO
- 4. WHERE SERVICE INTERRUPTION IMPACTS DAILY SCHOOL OPERATIONS, AT THE DISCRETION OF THE SCHOOL ADMINISTRATION, THESE INTERRUPTIONS SHALL BE MADE DURING OFF-HOURS.
- 5. IF THIS PROJECT IS IN ADJOINING AREAS THAT WILL BE OCCUPIED DURING CONSTRUCTION, THE CONTRACTOR AND SUBCONTRACTORS SHALL COOPERATE WITH THE SCHOOL PERSONNEL TO MAINTAIN CONTINUOUS OPERATION. IF CONFLICTS OCCUR, THE INTERESTS OF THE OWNER SHALL GOVERN. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE IMPACT OF CONSTRUCTION ON STUDENTS, TEACHERS, STAFF AND SERVICES IN AFFECTED AREAS.
- 6. ALL REQUIRED EXITS FROM OCCUPIED PORTIONS OF THE SCHOOL MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL ESTABLISH PRO-CEDURES TO MINIMIZE CIRCULATION OF CONSTRUCTION PERSONNEL AND MATERIALS THROUGH OCCUPIED PORTIONS OF THE BUILDING. THE CONTRACTOR SHALL IMMEDIATELY CLEAN DUST AND DIRT FROM CORRIDOR AREAS NOT PROTECTED BY DUST SCREENS.
- 7. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE A COMPLETE AND FINISHED PRODUCT MATCHING AND/OR ABUTTING EXISTING CONSTRUC-TION IN A NEAT AND PROFESSIONAL MANNER.
- 8. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE CODES LISTED UNDER THE PROJECT DATA HEADING ON THIS SHEET. IT SHALL E THE CONTRACTOR'S AND HIS EMPLOYEE'S RESPONSIBILITY TO BE FAMILIAR WITH ALL CODES AND ORDINANCES, CITY OR STATE, AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. WHERE ANY CONFLICTS OCCUR BETWEEN FEDERAL, STATE AND LOCAL LAWS, CODES ORDINANCES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
- 9. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIRE-MENTS OF BOTH THE UNIFORM BUILDING CODE AND TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.)
- 10. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO STRUCTURE, MECHANICAL, PLUMBING, ELECTRICAL, EQUIPMENT AND ALL OTHER EXISTING SYSTEMS, AND MAKE NECESSARY PROVISIONS TO MAINTAIN THE INTEGRITY OF SAID SYSTEMS PRIOR TO THE COMMENCEMENT OF DEMOLITION, IF ANY. ALL POSSIBLE CARE SHALL BE EXERCISED BY THE CONTRACTOR TO INSURE THAT ANY SAID UTILITY WILL NOT BE THE CAUSE OF ENDANGERMENT TO THE LIFE OR HEALTH OF ANY PERSON.
- II. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF ANY MECHANICAL, PLUMBING, ELECTRICAL OR SYSTEMS CONSTRUCTION. ANY DISCREPANCIES BETWEEN OR WITHIN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. ANY CONSTRUCTION INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER OR
- 12. THE CONTRACTOR SHALL REFER TO SPECIFICATIONS PROVIDED FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS, MATERIALS, INSTALLATION METHODOLOGY, RELATED DOCUMENTS. QUALITY ASSURANCE, SUBMITTALS, JOB CONDITIONS, PRODUCTS,
- TYPICAL NOTES AND DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THESE PLANS. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR SIMILAR WORKS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS SERVICES, POINTS OF CONNECTION AND IRRIGATION LINES IN THE CONSTRUCTION AREA PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPAIR, AT HIS EXPENSE, ANY LINES DAMAGED DURING CONST.
- 15. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CHANGE ORDER APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I
- 16. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ARCHITECT FREE AND HARMLESS FROM ANY AND ALL CLAIMS, DEMANDS AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ARCHITECT.
- 17. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING AND SUPPORT NECESSARY TO ACHIEVE THE FINISHED STRUCTURE. THE CONTRACTOR IS PESPONSIBLE FOR DETERIMING AND ENFORCING ALL CONSTRUCTION LOAD LIMITS ON THE STRUCTURE.
- 18. PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM THE SITE, THE CONTRACTOR SHALL CHECK WITH THE SCHOOL PERSONNEL FOR AN ACCEPTABLE ACCESS ROUTE AND TIME, UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR, HIS SUBCONTRACTORS OR ANY OF THEIR EMPLOYEES USE ANY AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE SCHOOL PERSONNEL.
- 19. STORAGE OF ALL MATERIALS, EQUIPMENT AND SUPPLIES SHALL BE LIMITED TO SCHEDULED AREAS OF WORK IN PROGRESS, OR TO DESIGNATED EXTERIOR LOCATIONS APPROVED AND ARRANGED WITH THE OWNER.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING WORK AREA IN A NEAT AND SAFE CONDITION. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LAWFUL MANNER. AREA OF WORK SHALL BE THOROUGHLY AND COMPLETELY CLEANED AND READY FOR OCCUPANCY UPON COMPLETION OF WORK.
- 21. WHERE PAVING, WALKS AND/OR LANDSCAPE AREAS ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPAIRED AND/OR REPLACED TO MATCH ORIGINAL CONDITIONS.
- 22. ALL DRAWINGS, THOUGH NOTED TO SCALE, ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT 'SCALE' THE DRAWINGS, ITEMS WRONGLY LOCATED BY DRAWING SCALING SHALL B CORRECTED AT THE CONTRACTOR'S EXPENSE. ITEMS OR AREAS WHERE DIMENSIONS CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PRODUCT ORDERING OR CONSTRUCTION TO PROVIDE
- 23. AN INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 WILL BE ASSIGNED TO THE WORK. HIS DUTIES ARE SPECIFICALLY DEFINED IN TITLE 24, PART I, SECTION 4-342. THE PROJECT INSPECTOR SHALL BE DSA CERTIFIED TO INSPECT PROJECT CLASS 3 CONSTRUCTION.
- 24. A COPY OF TITLE 24, C.C.R. SHALL BE AVAILABLE AT THE JOB SITE AT ALL TIMES.
- 25. ALL ITEMS INDICATED IN THE DRAWINGS, PLANS AND DETAILS SHALL BE CONSTRUED TO BE PROVIDED AND INSTALLED FOR THE WORK OF THE CONTRACT UNLESS SPECIFICALLY NOTED AS EXISTING. ITEMS IDENTIFIED AS EXISTING SHALL REMAIN UNLESS SPECIFICALLY IDENTIFIED OR
- 26. COMPLY WITH TITLE 24 PART 9 CALIFORNIA FIRE CODE 1998 ARTICLE 87 DURING ALL PHASES OF THE PROJECT (SAFETY DURING CONSTRUCTION).



# BIOTECHNOLOGY LAB REMODEL BUILDING 400

MIRACOSTA COMMUNITY COLLEGE DISTRICT

# SAN ELIJO CAMPUS

333 MANCHESTER AVENUE, CARDIFF-BY-THE-SEA, CA 92007

# **ABBREVIATIONS**

#### Precast Pounds per Square P.T.D. Paper Towel Amp Anchor Bolt P.T.D./R. PTN. PVMT. Face of Concrete Face of Finish Quarry Tile Adjustable Reference ARCH. A.S.C Above Suspended Required Gauge Galvanized Revision Resilient A.S. ASPH. AUTO. Grab Bar General Contracto Automatic Ground Gypsum Drywall Gate Valve Hose Bibb Hollow Core

Schedule Handicapped Hardware Hollow Metal Cabinet Catch Basin Hardware Handrail Inside Face Include Information cuit Breaker Insulation Interior Kitchen Kick Plate Concrete Connection Kilowat Cold Water Material Maximum Medicine Cabine Manufacturer

Manhole Minimum

Mounted

Outside Air

Plywood Plywood

PLAM. PLAS. PLYWD. PWD.

INDICATES ELEVATIONS

ROOM NUMBER

DETAIL NUMBER

IS DRAWN

IS DRAWN

IS DRAWN

DRAWN WHERE SHADED

SHEET WHERE INTERIOR

ELEVATION IS DRAWN

SHEET WHERE DETAIL

BLDG. SECTION NUMBER

SHEET WHERE SECTION

- WALL SECTION NUMBER

SHEET WHERE SECTION

- STRUCTURAL GRID

Mullion

Dispenser Demountable

Door Opening

Emergency Enclosure

Expansion Exterior

Fastenieri Fire Alarm

Face Brick

SYMBOLS

Electric Water Coole Exhaust

Miscellaneous Masonry Openin Not In Contrac UON Not to Scale

Top of Wal Underground Unfinished Unless Noted Unless Otherwise Vapor Barrier Vertical Vestibule Verify in Field Vent Through Roof Water Clos Wall Cleanout Water Heater Partial Height Partition Waterproof Plastic Laminate Plaster Wainscot Weight Welded Wire Fabric Welded Wire Mesh Plumbing Point of Connection

DOOR IDENTIFICATION

ALUMINUM FRAME

EQUIPMENT NUMBER

REVISION NUMBER

KEY NOTE NUMBER

LETTER

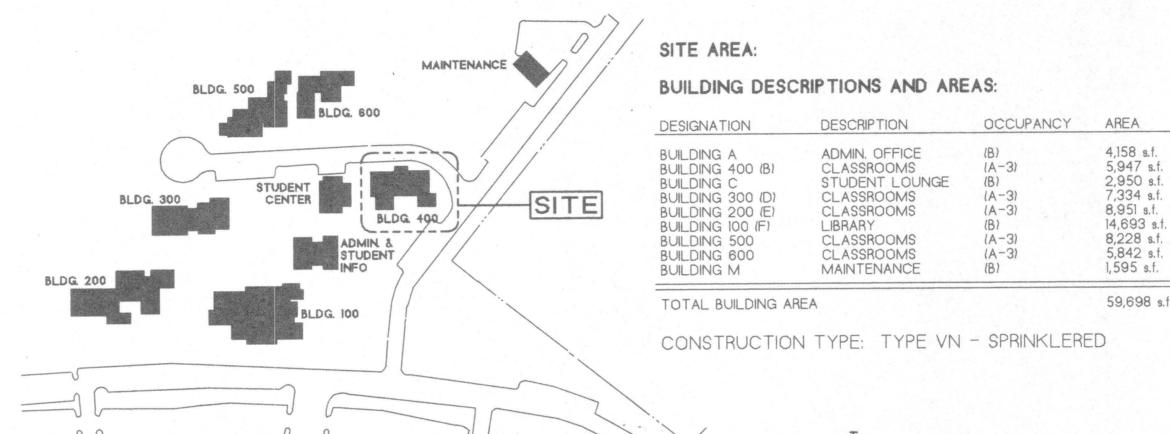
WINDOW IDENTIFICATION

Sprinkler Head Shut-off Valve Speaker Service Sink Station Standard Steel Storage Structure Structural Top & Bottom Top of Concrete Tempered Tongue and Groove Thick Top of Parapet. Pavement Toilet Paper

VICINITY MAP CARDIFF

Soap Dispense

# CAMPUS MAP



# DEPARTMENT OF GENERAL SERVICES SEP | 8 2000 DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVACES

# PROJECT DATA

#### PROJECT LOCATION ENCINITAS MIRA COSTA COLLEGE 333 MANCHESTER AVENUE BUILDING (400) - SCIENCE LABS CARDIFF-BY-THE-SEA, CA 92007 D.S.A. APPLICATION NO. OCCUPANCY: MANCHESTER AVENUE NUMBER OF STORIES: 20'-0" HEIGHT: V-NON-RATED CONSTRUCTION TYPE: BUILDING FULLY SPRINKLERED FIRE SPRINKLERS: 8000 S.F. BASIC ALLOWABLE SQ. FT.: 5.947 S.F. SQ. FT. PROVIDED: DEL MAR

NO SCALE

# ACCESSIBILITY NOTES

MANCHESTER AVENUE

- MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS, 5 POUNDS FOR INTERIOR DOORS AND 15 POUNDS FOR FIRE DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS.
- 2. THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT.
- 3. THE PATH OF TRAVEL TO THE FACILITY SHALL BE A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAX. SLOPE, EXCEPT THAT VERTICAL CHANGES SHALL NOT EXCEED 1/4" IN VERTICAL DIMENSION.
- 4. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE, HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 INCHES AND 44 INCHES ABOVE THE FLOOR, LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
- 5. HANDICAPPED FIXTURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH CALIFORNIA PLUMBING CODE, 1995 EDITION, CHAPTER 15, PLUMBING REQUIREMENTS FOR THE ACCOMODATION OF PHYSICALLY-DISABLED PERSONS AND THE AMERICANS WITH DISABILITIES ACT.
- 6. EXPOSED LAVATORY P-TRAP ASSEMBLY AND HOT WATER SUPPLY SHALL BE INSULATED WITH PRE-MANUFACTURED VINYL COVERED INSULATING FOAM P-TRAP AND VALVE AND SUPPLY COVER.

7. THE FORCE REQUIRED TO OPERATE LAVATORY OR SINK FAUCETS SHALL

BE NO GREATER THAN 5 LB. SELF-CLOSING FAUCETS SHALL HAVE MINIMUM 10 SECOND CYCLE TIME. 8. ALL CARPET FLOORING SHALL BE GLUE DOWN APPLICATION.

# FIRE GENERAL NOTES

- ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS THROUGH FIRE RESISTIVE WALL OR CEILING ASSEMBLIES, INCLUDING CONDUITS AND PIPING AND DUCTWORK, SHALL BE TIGHTLY AND SOLIDLY SEALED WITH AN APPROVED FIRESTOPPING COMPOUND CP25 NS FIRESTOP SEALANT, MANUFACTURED BY 3M IN ACCOR-DANCE WITH UNDERWRITERS LABORATORIES SYSTEMS 147 OR APPROVED EQUAL.
- 2. ALL MATERIALS USED SHALL BE UL AND FM APPROVED FOR FIRE PROTECTION USE.
- 3. PROVIDE AUDIBLE BELL, POWER, CONDUITS, WIRING AND COMPO-NENTS FOR INTERFACE TO EXISTING FIRE ALARM PANEL. REFER-ENCE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 4. THE FIRE ALARM DEVICES SHOWN ON THESE DRAWINGS FOR FIRE AND LIFE SAFELY ARE CONSIDERED MINIMUM REQUIREMENTS. ADDITIONAL DEVICES OR MATERIALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM MEETING CODE REQUREMENTS, SHALL BE PROVIDED AND CONSIDERED PART OF THE CONTRACT. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:
- . POINT TO POINT WIRE DIAGRAM NUMBER OF CONDUCTORS PER CIRCUIT • SIZE OF ELECTRICAL CONDUCTORS

FOR ADDITIONAL INFORMATION.

- SYSTEM BATTERY CALCULATIONS WORST CASE VOLTAGE DROP CALCULATIONS CSFM LISTENING FOR COMPONENTS TO BE USED
- MANUFACTURE'S CUT SHEET FOR EACH COMPONENT OTHER: (COMPLIANCE TO ARTICLE 14, 1994 UFC) REFERENCE REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS

SHEET INDEX

TITLE SHEET: T-1.1 TITLE SHEET

# ARCHITECTURAL

PARTIAL SITE PLAN DEMOLITION PLAN A-2.1 NEW WORK FLOOR PLAN A - 3.1INTERIOR ELEVATIONS A-4.1 INTERIOR ELEVATIONS A-4.2 REFLECTED CEILING PLAN A-5.1 FINISH SCHEDULE AND DETAILS

#### A-6.2 DETAILS MECHANICAL:

EQUIPMENT SCHEDULES, GENERAL NOTES, LEGEND & CONTROLS REGULATORY NOTES AND SPECIFICATIONS

#### M-2.1 MECHANICAL FLOOR PLAN M-3.1 DETAILS

P-2.2

PLUMBING: PLUMBING LEGEND, NOTES AND DETAILS P-1.2 PLUMBING SPECIFICATIONS PLUMBING DEMOLITION PLAN P-2.1

PLUMBING RENOVATION PLAN

ELECTRICAL SYMBOLS, ABBREVIATION & NOTES

ELECTRICAL POWER AND SIGNAL PLAN ELECTRICAL LIGHTING PLAN

FIRE ALARM TITLE SHEET FA-1 FIRE ALARM PLANS & WIRING DIAGRAMS FA-2

# PROJECT DIRECTORY

# CLIENT:

MIRACOSTA COMMUNITY COLLEGE ONE BARNARD DRIVE OCEANSIDE, CA 92056 PHONE (760) 757-2121 FAX (760) 757-8158

ARCHITECTURAL LR DESIGN ASSOCIATES 4749 OCEANSIDE BLVD., SUITE A CEANSIDE, CA 92056 PHONE (760) 941-4647 FAX 17601 941-4514

# ELECTRICAL

MECHANICAL:

VAN BUUREN KIMPER ENGINEERING 5030 CAMINO DE LA SIESTA, STE. 301 PHONE (619) 291-9980 FAX (619) 291-6389

TMAD ENGINEERS, INC.

SAN DIEGO, CA 92131

PHONE (858) 271-9808

FAX (858) 271-9932

9845 ERMA ROAD, SUITE 200

# APPLICABLE CODES

1998 BUILDING STANDARDS ADMINISTRATIVE CODE, PART I, TITLE 24 C.C.R. 1998 CALIFORNIA BUILDING CODE (C.B.C.), TITLE 24, PART 2, C.C.R. (1997 U.B.C., VOLUMNS 1 - 3, WITH 1998 CALIFORNIA AMENDMENTS)

1998 CALIFORNIA ELECTRIC CODE (C.E.C.), TITLE 24, PART 3, C.C.R. (1996 N.E.C. WITH 1998 CALIFORNIA AMENDMENTS)

1998 CALIFORNIA MECHANICAL CODE (C.M.C.), TITLE 24, PART 4, C.C.R. (1997 U.M.C. WITH 1998 CALIFORNIA AMENDMENTS)

1998 CALIFORNIA PLUMBING CODE (C.P.C.), TITLE 24, PART 5, C.C.R. (1997 U.P.C. WITH 1998 CALIFORNIA AMENDMENTS) 1998 CALIFORNIA FIRE CODE (C.F.C.), TITLE 24, PART 9, C.C.R.

(1997 U.F.C. WITH 1998 CALIFORNIA AMENDMENTS) 1998 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24, PART 12, C.C.R. 1990 TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS 1996 EDITION NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 1996 EDITION

NFPA 14 STANDPIPE SYSTEMS 1994 EDITION NFPA 17A WET CHEMICAL SYSTEMS 1995 EDITION NFPA 24 PRIVATE FIRE MAINS NFPA 72 NATIONAL FIRE ALARM CODES (CALIF. AMENDED) 1996 EDITION

INOTE: SEE U.L. STANDARD 1971 FOR "VISUAL DEVICES") NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 1989 EDITION NFPA 2001 CLEAN AGENT FIRE EXTINGUSHING SYSTEMS REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC ISFMI 3503.1.3

CALIFORNIA BUILDING CODE C.C.R. = CALIFORNIA CODE OF REGULATION UNIFORM BUILDING CODE

UNIFORM FIRE CODE U.M.C. = UNIFORM MECHANICAL CODE UNIFORM PLUMBING CODE NATIONAL ELECTRICAL CODE

## D.S.A. APPROVALS

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102107 ACM K FLS C SS =54 DATE AUG 0 9 A FLS: D.E. CASEY 55:5 FERRER

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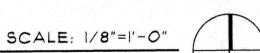
TITLE SHEET

REVISIONS:

4/10/00

9808

DEMOLITION PLAN - BLDG. 400



# KEY NOTES

- REMOVE EXISTING SHEET VINYL FLOORING & TOPSET BASE.
- REMOVE PORTION OF EXISTING BASE CABINET
- REMOVE PORTION OF EXISTING EPOXY COUNTERTOP.
- REMOVE EXISTING SINK REFER TO PLUMBING DWGS.
- REMOVE PRTION OF EXISTING WALL CABINETS.
- EXISTING BASE and/or WALL CABINETS TO REMAIN.
- EXISTING DEMONSTRATION TABLE TO REMAIN.
- REMOVE EXISTING PAPER TOWEL DISPENSER. DELIVER TO DISTRICT.
- REMOVE EXISTING PEG-BOARD DRYING RACK, DELIVER TO
- EXISTING LAB SERVICE ISLAND TO REMAIN. MODIFY PER NEW WORK PLANS AND ELEVATIONS, SHTS. A-3.1 & A-4.2.
- REMOVE EXISTING SHELVING.

EXISTING CHALKBOARD TO REMAIN.

- REMOVE EXISTING EYE WASH REFER TO PLUMBING DWGS.
- EXISTING FUME HOOD TO REMAIN REMOVE BASE CABINET FOR REPLACEMENT PER NEW WORK PLANS.
- REMOVE EXISTING DISHWASHER. CAP WATER SUPPLY LINE AND DISCONNECT / SAFE OFF ELECTRICAL SUPPLY.
- 16. EXISTING UTILITY TRENCH.
- SAUCUT AND REMOVE CONCRETE FLOOR SLAB FOR CONSTRUCTION OF NEW UTILITY TRENCH PER DETAIL
- EXISTING SINK TO REMAIN.

SECTION 01230).

- REMOVE EXISTING FIRE EXTINGUISHER FOR RELOCATION PER FLOOR PLAN, SHT. A-3.1.
- 20. REMOVE TRACK LIGHTING REFER TO ELECTRICAL DWGS.
- REMOVE EXISTING FLOORING AND BASE FOR REPLACEMENT (ADDITIVE ALTERNATE REFER TO SPECIFICATIONS
- REMOVE EXISTING PEG BOARD DRYING RACK SAVE FOR RELOCATION AS NOTED ON INTERIOR ELEVATION ALA-4.2.

# GENERAL NOTES

- NOT ALL KEY NOTES MAY BE NECESSARILY USED OR REFERENCED.
- 2. THIS DEMOLITION PLAN REFERENCES GENERAL ITEMS AND CONDITIONS. VARIATIONS MAY OCCUR WITHIN ROOMS AND SHALL BE TREATED AS A SIMILAR CONDITION.
- KEY NOTES REFERENCE GENERAL ELEMENTS FOR DISPOSAL OR SALVAGE. VARIOUS OTHER ITEMS MAY OCCUR AND SHOULD BE REMOVED ACCORDING TO THE NEEDS AND DESIGN INTENT OF THE NEW CONSTRUCTION.
- AFTER THE DEMOLITION AND REMOVAL OF ELEMENTS, REPAIR AND RESTORE EXISTING FINISHES TO REMAIN TO THEIR ORIGINAL CHARACTER, WHERE EXISTING FINISHES ARE TO BE HIDDEN WITH NEW MATERIAL, THOSE FINISHES SHALL BE RESTORED TO PROVIDE ADEQUATE SUITABILITY, STRENGTH AND SUBSTRATE FOR NEW CONSTRUCTION AND FINISHES.
- CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SECTIONS
  OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS
  CONSTRUCTION:
  5-2 PROTECTION
- 5-2 PROTECTION
  5-3 REMOVAL
  5-4 RELOCATION
  1-8 PROJECT SITE MAINTENANCE
  1-9 PROTECTION & RESTORATION OF EXIST, IMPROVEMENTS
  1-10 PUBLIC CONVENIENCE AND SAFETY
- CONTRACTOR SHALL DISPOSE OF DEMOLITION MATERIALS IN A LEGAL AND ACCEPTABLE MANNER OFF-SITE.
- CONTRACTOR SHALL MAKE AVAILABLE TO OWNER ANY MATERIALS OR EQUIPMENT SCHEDULED FOR DEMOLITION, DISPOSAL, REMOVAL, ETC. UPON OWNER'S REQUEST. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGABLE ITEMS.
- CONTRACTOR SHALL KEEP EQUIPMENT OR MATERIALS INDICATED FOR REUSE, RELOCATION OR OWNER REQUESTED RETENTION IN A SAFE MANNER TO PROTECT THE MATERIAL OR EQUIPMENT'S CONDITION.
- 9. REFER TO MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- 10. REMOVE ALL WALL MOUNTED FURNISHINGS SCHEDULED TO REMAIN (IE BULLETIN BOARDS, FIRE EXTINGUISHERS, BLINDS, ETC.) DURING CONSTRUCTION, STORE AND REINSTALL AT COMPLETION OF NEW FINISH WORK.
- REFER TO FINISH SCHEDULE GENERAL NOTES ON SHEET A-4.1 FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- 12. REFER TO PLUMBING DRAWINGS TO DETERMINE LOCATION (
  EXTENT OF ALL CONCRETE FLOOR SLAB REMOVAL AND
  REPLACEMENT FOR NEW UNDERGROUND PLUMBING WORK, REFER
  TO DETAIL 8/A-4.1 FOR SLAB REPAIR REQUIREMENTS.

# DSA APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102107

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BUILDING 400 DEMOLITION PLAN

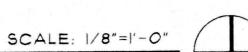
DSA REVISIONS

DATE: 4/10/00

JOB NO. 9808

SHEET:

FLOOR PLAN - BLDG. 400



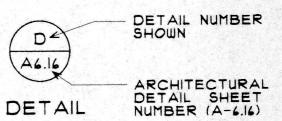
# KEY NOTES

- NEW LAB STATION UNIT REFER TO DETAIL B/A-4.I.
- 2. NEW LAB STATION UNIT WITH ACCESSIBLE BENCH SECTION REFER TO DETAIL C/A-4.2.
- 3. NEW MICROSCOPE STORAGE BASE CABINET.
- 4. NEW STORAGE CABINET REFER TO DETAIL D/A-4.I.
- 5. EXISTING LAB SERVICE ISLAND MODIFY AS NOTED ON NEW WORK PLANS AND AS INDICATED ON INTERIOR ELEV'S.
- L. NEW ACCESSIBLE SINK CABINET REFER TO INTERIOR ELEVATIONS AND PLUMBING DRAWINGS.
- NEW SINK CABINET REFER TO INTERIOR ELEVATIONS AND PLUMBING DWGS. COUNTERTOP TO BE PROVIDED WITH GROOVED DRAIN BOARD EACH SIDE OF SINK (12" LONG GROOVES).
- NEW ACCESSIBLE WORKSTATION MODIFY EXISTING CASEWORK, REFER TO INTERIOR ELEVATIONS.
- NEW BASE CABINET SECTION FOR AUTOCLAVE.
- O. EXISTING FUME HOOD TO REMAIN REPLACE BASE CABINET PER INTERIOR ELEVATIONS.
- NEW 6'-0" FUME HOOD REFER TO SPECIFICATIONS AND MECHANICAL / ELECTRICAL DRAWINGS FOR ALL SERVICES REQUIRED.
- NEW 4'-0" ACCESSIBLE FUME HOOD REFER TO SPECS AND MECHANICAL / ELECTRICAL DRAWINGS FOR ALL SERVICES REQUIRED.
- 13. NEW EMERGENCY SHOWER REFER TO PLUMBING DRAWINGS.
- 14. SALTWATER AQUARIUM (N.I.C. OWNER FURNISHED AND INSTALLED)
- AQUARIUM CIRCULATION PUMP AND COMPRESSOR (N.I.C. OWNER FURNISHED AND INSTALLED). CONTRACTOR SHALL PROVIDE A 4" THICK 2'-O" WIDE × 4'-O" LONG (VERIFY EXACT DIMENSIONS) CONCRETE BASE PAD PER DET. 2/A-6.1 AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ELECTRICAL AND PLUMBING ROUGH-INS, REFER TO ELECTRICAL AND PLUMBING DRAWINGS. SEAL ALL PIPING PENETRATIONS THROUGH EXISTING WALL TO PROVIDE A WEATHERTIGHT CONDITION.
- 16. CENTRIFUGE (N.I.C. OWNER FURNISHED AND INSTALLED)
- 17. NEW GAS COCK AT EXISTING LAB BENCH REFER TO PLUMBING DRAWINGS.
- 18. NEW UTILITY TRENCH REFER TO DETAIL I/A-4.1.
- 19. EXISTING UTILITY TRENCH.
- D. REFRIGERATOR (N.I.C.)
- 21. ROCK FILES (N.I.C.)
- 22. FILE CABINETS (N.I.C.)
- 23. EXISTING FIRE EXTINGUISHER TO REMAIN.
- 24. RELOCATE EXISTING FIRE EXTINGUISHER AND MOUNTING BRACKET. MOUNT EXTINGUISHER AT +48" FROM FINISH FLOOR TO CENTERLINE OF HANDLE.
- 25. EXISTING PROJECTION SCREEN TO REMAIN.
- 26. NEW DEIONIZED WATER PLANT REFER TO PLUMBING DWGS.
- 21. COMPUTER (N.I.C.)
- 28. PROVIDE 4" SQUARE ACCESSIBLE ENTRANCE SIGN. REFER TO DETAIL 3/A-6.1.

# GENERAL NOTES

- I. NOT ALL KEY NOTES MAY BE NECESSARILY USED OR REFERENCED.
- 2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, MINOR VARIATIONS MAY OCCUR WITHIN TYPICAL ROOMS AND SHALL BE TREATED AS SIMILAR CONDITION.
- 3. SWITCHES, OUTLETS, FIRE EXTINGUISHERS, CLOCKS, FIRE ALARM PULL-STATIONS, ETC. SHALL REMAIN, UNLESS NOTED FOR REMOVAL, REPLACEMENT and/or RELOCATION.
- 4. REFER TO INTERIOR ELEVATIONS FOR ALL REQ'D. MODIFICATION WORK TO OCCUR AT EXISTING CASEWORK.
- PROVIDE ROOM SIGNAGE PER DETAILS 4/A-4.1 \$ 5/A-4.1. VERIFY PLACEMENT WITH DISTRICT PRIOR TO INSTALLATION.

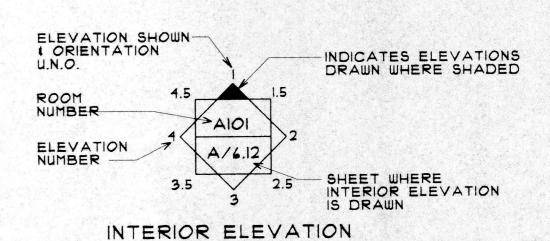
# LEGEND KEY





SECTION NUMBER

SECTION ARCHITECTURAL SECTION SHEET NUMBER (A-4.1)



DSA APPROVAL

DENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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OFFICE OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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BUILDING 400 FLOOR PLAN

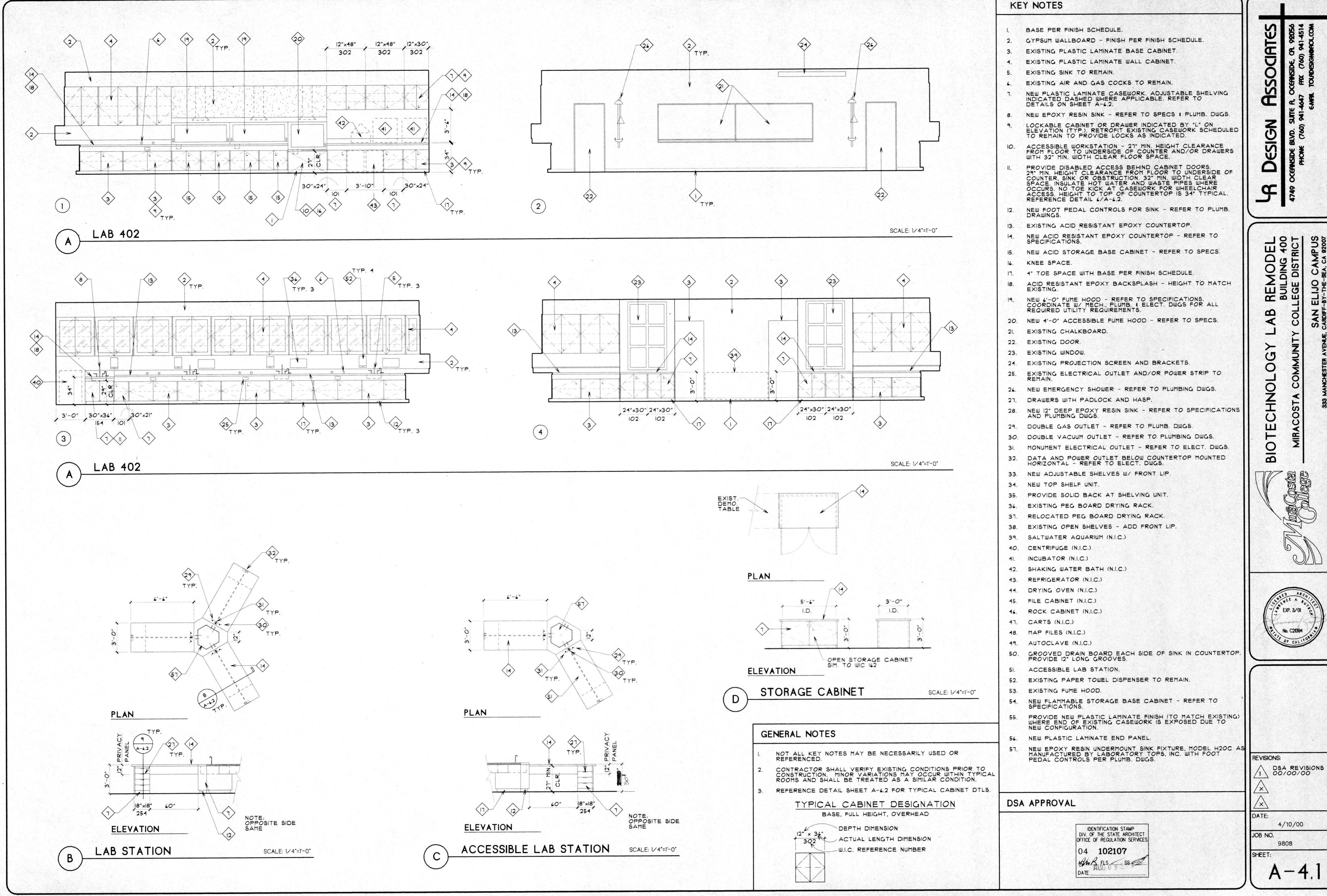
REVISIONS:

DSA REVISIONS

DATE: 4/10/00

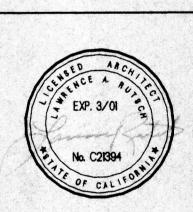
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A-3.1



SASABABADA & 8000 BEUILDING RENOVATIONS SBRICHMINDO 20202020 Exhibit 6 - SAN B400ERIEDIOSVASIADINS PLOARES NO COOTIONE PERSES NO COOCUMENTS ONLY





SOCIATES

REMODEL BUILDING 400 LEGE DISTRICT 8

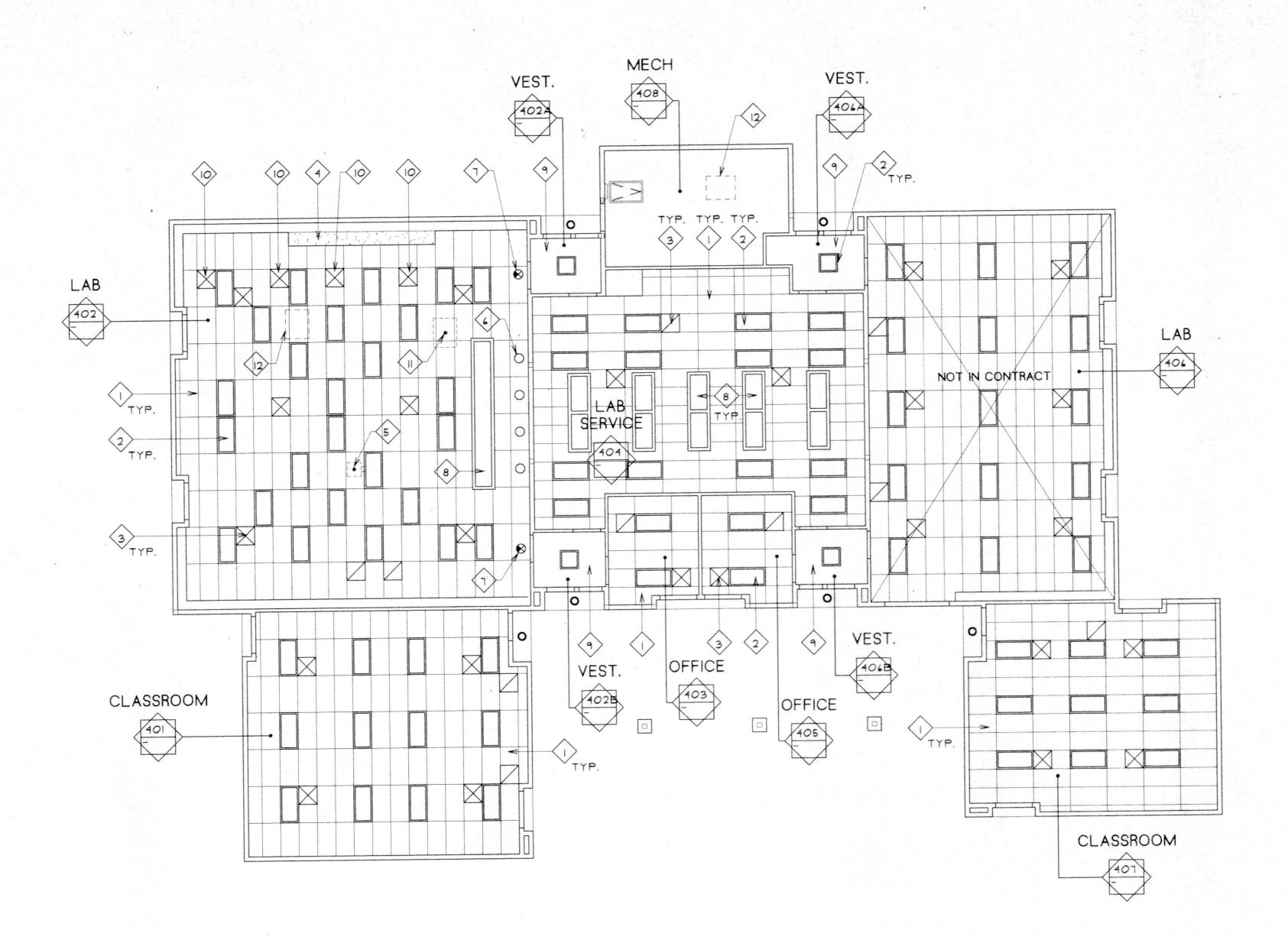


REVISIONS:

DSA REVISIONS

4/10/00

SHEET:



REFLECTED CEILING PLAN - BLDG. 400

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



# KEY NOTES

- EXISTING ACOUSTICAL TILE CEILING IN SUSPENDED T-BAR GRID.
- EXISTING FLUORESCENT LIGHT FIXTURE.
- EXISTING MECHANICAL REGISTER.
- NEW GYSUM WALLBOARD SOFEIT OVER NEW FUME HOODS.
- NEW CEILING MOUNTED VIDEO PROJECTION UNIT SUPPORT PER DETAIL 6/A-6.1. VERIFY LOCATION WITH OWNER, REFER TO ELECTRICAL DWGS, FOR POWER AND DATA ROUGH-IN REQUIREMENTS.
- 6. NEW RECESSED DOWNLIGHT REFER TO ELECTRICAL DWGS.
- 7. EXISTING CEILING MOUNTED EXIT SIGN.
- 8. EXISTING SKYLIGHT SHAFT.
- EXISTING GYPSUM WALLBOARD CEILING. NEW MECHANICAL REGISTER - REFER TO MECHANICAL DWGS.
- EXISTING CEILING MOUNTED TELEVISION MONITOR.
- LOCATION OF NEW ROOF MOUNTED MECHANICAL EQUIPMENT REFER TO MECH. DWGS. AND DETAIL 10/A-6.2 FOR MECH. CURB FLASHING REQUIREMENTS.

- NOT ALL KEY NOTES MAY BE NECESSARILY USED OR
- 2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION, VARIATIONS MAY OCCUR WITHIN TYPICAL ROOMS AND SHALL BE TREATED AS SIMILAR CONDITION.
- 3. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

# CEILING PLAN LEGEND

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GENERAL NOTES

ACOUSTIC TILE CEILING IN 24"x48" SUSPENDED T-BAR GRID

ACOUSTIC TILE CEILING IN 24"x24" SUSPENDED T-BAR GRID

5/8" GYPSUM BOARD CEILING (PROVIDE TYPE 'X' AT I HOUR RATED SPACES)

1/8" CEMENT PLASTER

SUSPENDED FLUORESCENT LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)

SURFACE OR RECESS MOUNTED LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS)

FLUORESCENT STRIP LIGHT FIXTURE (REFER TO ELECTRICAL DRAWINGS) RECESSED DOWNLIGHT (REFER TO ELECTRICAL DRAWINGS)

SUPPLY AIR DIFFUSER (REFER TO MECHANICAL DRAWINGS)

RETURN OR EXHAUST AIR GRILLE (REFER TO MECHANICAL DRAWINGS)

SKYLIGHT SHAFT FINISH CEILING HEIGHT - WHERE NOT NOTED CEILING HEIGHT SHALL BE PER FINISH SCHEDULE 10'-6"

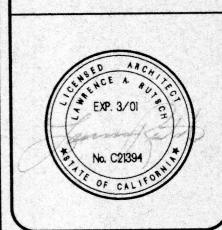
# DSA APPROVAL

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES 04 102107 ANAR FLS SS SS

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BUILDING 400 REFLECTED CEILING PLAN

DSA REVISIONS

DATE: 4/10/00

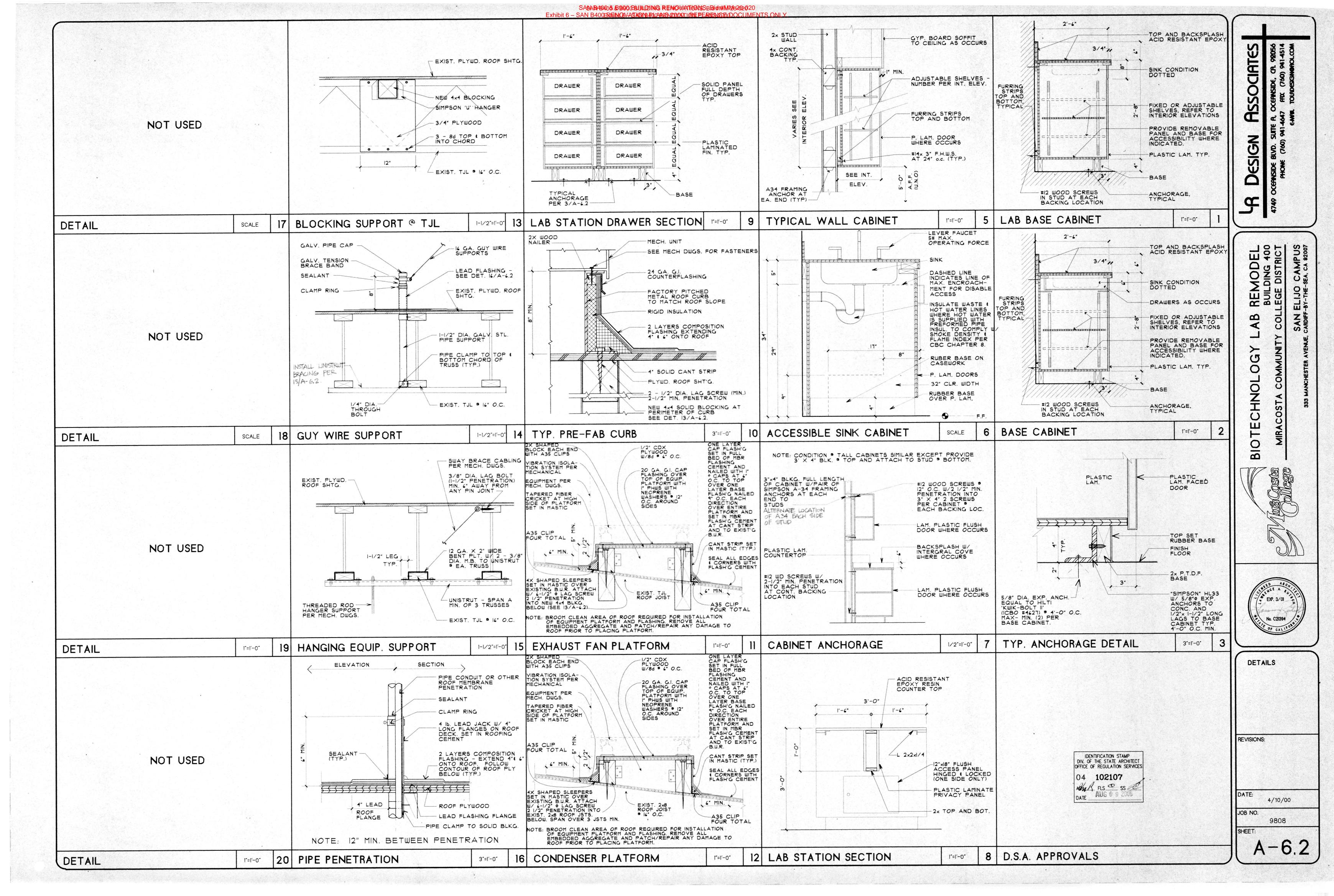
JOB NO. 9808

SHEET: A - 5.1

FINISH SCHEDULE LEGEND

ROOM FINISH SCHEDULE

	사용 가게 있다면 이 사람이 되었다면 하다 하는 것이 없는 것이다.																									
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и.								ELEV. 1/1.5	5 ELE	EV. 2/2.5	ELEV	v. 3/3.5	ELEV. 4/						FLOOR			WAIN	SCOT			
<b>)</b> .	ROOM NAME	MAT. FIN.	MAT.	FIN.	MAT.	FIN.	HGT.	MAT. F	IN. MAT.	FIN.	MAT.	FIN.	MAT.	FIN. MAT.	FIN.	HGT.	REMARKS	3	F1 EXISTING/NEW CO	NCRETE		WT1 GLA WT2 3/4	ZED CERAMIC MOS "THICK A.C. PLYW DUSTICAL FABRIC W TECTIVE VINYL SHE	SAIC TILE (09300 (OOD (06100)	0)	
	BUILDING 400																		F4 RESILIENT FLOORIN F5 VINYL COMPOSITION	MIC MASAIC TILE (09300) TILE (09300) NG-SHEET VINYL (09650) ON TILE (09650) 9680)		WT4 PRO	TECTIVE VINYL SHE	EET WALLCOVE	ERING	
	CLASSROOM	F6 B	· B4	В				WI E	E WI	E	WI	E	WI	E CI	В	10'-6"	11, 12		F/ CARPET-TYPE 2 10	9680) 19680) DNAL AND ATHLETIC FLOC	)RING (0962)	2)				
	VESTIBULE	F4 B	B4	В				WI E	F WI E WI	E	WI	E	WI	F Cl	E	10'-6"	5, 9, 11									
	VESTIBULE	F4 B	B4	В				WI E	E WI	E	WI	E	WI	E C2		10'-6"	11									l z
	OFFICE	F6 B	B4	В				WI E	E WI	E	WI	Е	WI	E CI	В	10′-6″	II, 12									<u> </u>
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ing.	OFFICE _AB	F6 B	B4 	В				WI E	E   WI	E	W1	E	WI	E   CI	В	10′-6″	11, 12 1 (N.I.C.)		BO NONE BI EXISTING BASE TO B2 UNGLAZED CERAM	IN MOSAIC THE IDOSON		WI EXIST W2 GYPS W3 GYPS	'ING 5/8" TYPE "X" UM BOARD-5/8" (0 UM BOARD-5/8" T	GYP. BD. TO REI 19260) YPE "X" (09260)	MAIN	اک ا
	VESTIBULE	F4 B	B4	В				WI E	≣ WI	E	WI	E	WI	E C2	E	10′-6″	11		B3 PORCELAIN PAVER B4 RUBBER WALL BAS	TILE (09300) E (09650) SHEET VINYL BASE (09650		W4 GYPS W5 GLAZ	UM BOARD-5/8" (0 UM BOARD-5/8" T UM BOARD-5/8" W ED CERAMIC MOSA	VATER RESISTAN	NT (09260) )	
	VESTIBULE	F4 B	B4	В	-			W1 E	≣ W1	E	WI	E	WI	E C2	Е	10′-6″	11		B3 INTEGRAL COVED	SHEET VILLE BASE (09030		W7 EXIST	ING TACKSURFACE ING GLUED ON ACI ING TACKBOARD W	OUSTICAL TILE	TO REMAIN. N.	
	CLASSROOM	F6 B	B4	В				WI E	E WI	E	WI	E	WI	E C1	В	10′-6″	11, 12									
3 1	MECHANICAL									-	-						1									
	FINISH SCHE	DULE NOT	ES								FIN	ISH S	CHEDUL	F RFMA	ARKS				CEILINGS			FINISH	lES .			
1.	NOT ALL KEY NOTES MAY NEC			RENCED.															CI EXISTING ACOUSTIC	CAL TILE CEILING TO REM BOARD TO REMAIN	AIN		DRY FINISH ESISTANT			
2.	AFTER THE DEMOLITION AND R	REMOVAL OF ELEMEN POSED TO THEIR OR	NTS, REPAI	R AND RES	TORE EXIS	IST-			NO CHANGE				OR CEILING, REF	FERENCE PLAN	OR ELEVATION	ONS FOR LO	OC A TIONIS		C3 GYPSUM BOARD-5/	/8" TYPE "X" (09260) CEILING-TYPE 1 (09511)-2X CEILING-TYPE 2 (09511)-2)		C SLIP RED PAINTE	ESISTANT ED-FLAT (09900) ED-EGGSHELL ENAM	MEL (00000)		EMO
	AFTER THE DEMOLITION AND RING FINISHES TO BE LEFT EXPEXISTING FINISHES ARE TO BE BE RESTORED TO PROVIDE ALL FOR NEW CONSTRUCTION AND	HIDDEN WITH NEW NOTE OF THE PROPERTY OF THE PR	MATERIAL. TY, STRENC	THOSE FINI TH, AND S	SHES SHAL UBSTRATE	LL E		3		PSUM BOAR	RD CEILING	PER FINISH	SCHEDULE ON						C6 ACOUSTICAL TILE C7 EXPOSED ROOF STI	CEILING-TYPE 3 (09511)-2) RUCTURE	(4	F PAINTE G PAINTE	ED-SEMI-GLOSS EN ED-EPOXY (09900)	IAMEL (09900)		
3.	WHERE EQUIPMENT AND/OR FIXTU EXPOSED PIPING, CONDUITS AND PROPERLY TERMINATED IN UNEXP							5	REFER TO RE	FLECTED C	CEILING PL	AN FOR LC	DCATIONS OF DI PANEL LOCAT		TS.				C8 TRANSLUCENT ROC C9 LUMINOUS CEILING C10 1 X 1 GLUED ON AC	OF ASSEMBLY (08950) (09548) COUSTICAL TILE CEILING (0	9512)	I VARNIS	GRAFFITI COATING ( SH (09900) WALL COVERING ((			B
1.								7 8	REFER TO EL	LECTRICAL ECHANICAL	POWER PL	ANS FOR L	OCATIONS OF ONS OF NEW "H	3/4" PLYWOO HOUSEKEEPING	PADS".							L FABRIC	WALL COVERING (COVERED TACKSUF COVERED TACKSUF LASS REINFORCED	JRFACE (09841)		<
	WHERE EXISTING CONSTRUCTION E EQUIPMENT, ETC.) INTERFERE WITH EXPOSED IN OTHERWISE "FINISHED RELOCATED.							9	PATCH WAL SPECIFICATION	LS AT LOC DNS. REFER	CATIONS OF R TO THE E	NEW ELE	CTRICAL & PLU L & MECHANICA	JMBING ROUGH AL PLANS FOR	IN PER SECT LOCATIONS.							N CONCE	RETE SEALER STICAL PANELS (09) STICAL FABRIC WAL		.0 (00/12)	
5.	CONTRACTOR SHALL MAKE AV LISTED FOR DEMOLITION, DISPO OWNER SHALL HAVE FIRST RIG	VAILABLE TO OWNER OSAL, REMOVAL, ETC GHT OF REFUSAL ON	R ANY MATI C. UPON C N ALL SALV	ERIALS OR DWNER'S RE VAGABLE !	EQUIPMENT QUEST, TEMS.	Т			PER MANUFA	CTURERS R	RECOMMEN	DATIONS.	PAINT PER SECT ER FINISH LEGEN		HOPERLY PREP	PARE EXISTING	IG SUBSTRATE					P ACOUS	STICAL FABRIC WAL	LLCOVERING)		5
<b>د</b> .									ALL NEW FI	VISHES IFLO	OORING, BAS	SE & PAINT	ING) INDICATED	FOR THIS ROC	OM SHALL BE	EAN										
	CONTRACTOR SHALL KEEP AL FOR RE-USE. RELOCATION, OF AND SECURE MANNER IN ORDE EXISTING CONDITION.																									
	ALL EXISTING FLOOR FINISHES FINISHES ARE INDICATED AND	SHALL BE REMOVE	D IN ROOM	IS WHERE I	NEW FLOOR	2																				
7.																										- <del></del> -
T. 8.	ALL FINISHES SHALL COMPLY II	WITH C.B.C. CHAPTE	RS 3, 4, 7,	8 t 10, C.F	.C. AND																					
7. 8. 9.		WITH C.B.C. CHAPTE	RS 3, 4, 7,	8 t IO, C.F	.C. AND	:w						_														
9.  DOOR WHERE	ALL FINISHES SHALL COMPLY IN TITLE 19, C.C.R.  ALL ROOM FINISH SCHEDULE MA UNLESS SPECIFICALLY INDICATION	WITH C.B.C. CHAPTE (ATERIALS AND FINIS ED TO BE EXISTING	ERS 3, 4, 7, SHES ARE G.	8 t IO, C.F	.C. AND	:w			I2 C	:A. X 2" U	WIDE 1/ 2- 3/8'	,		The state of the s	IGN TYPE P	PER A-6.1						16"x9" ALUM. TREI COVER TO RECT	NCH W/		SHEET VINYL	IOTE
WHERE	ALL FINISHES SHALL COMPLY INTITLE 19, C.C.R.  ALL ROOM FINISH SCHEDULE MANUALESS SPECIFICALLY INDICATION  S	WITH C.B.C. CHAPTE (ATERIALS AND FINIS ED TO BE EXISTING	RS 3, 4, 7,	8 t IO, C.F	PROVIDE ABILIZING	:w			DIA	A. X 2" U IT PLT. W. . M.B. TO A. TRUSS	WIDE 1/ 2- 3/8' UNISTRUT 5 - SEE -4.2.											16"x9" ALUM. TREI COVER TO RECI FLOOR SET FLUS ADJACENT SURF TO TYPE FXTC	NCH W/ EIVE FIN. SH W/ ACE - SIM. AS MFR		SHEET VINYL FLOORING	BIOTE
WHERE OCCUR	ALL FINISHES SHALL COMPLY INTITLE 19, C.C.R.  ALL ROOM FINISH SCHEDULE MANUALESS SPECIFICALLY INDICATION  S	MITH C.B.C. CHAPTE	SHES ARE SHES ARE MERCER MPERIAL REDUCER	8 t IO, C.F	PROVIDE ABILIZING (2 MIN.) ATE TO P	PROVIDE SPLAYED			DIA	M.B. TO A. TRUSS AIL 15/A-	UNISTRUT			GSI	EOMETRIC IGNAGE							16"x9" ALUM. TREI COVER TO RECI FLOOR SET FLUS ADJACENT SURF TO TYPE EXTC BY McKINLEY	NCH W/ EIVE FIN. BH W/ ACE - SIM. AS MFR.	· / ·	EXIST. FLOOR SL SEE DET. 8/A-4. FOR REQUIREMEN	BIOTE
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WHERE	ALL FINISHES SHALL COMPLY INTITLE 19, C.C.R.  ALL ROOM FINISH SCHEDULE MANUALESS SPECIFICALLY INDICATION  S T	MITH C.B.C. CHAPTE	SHES ARE SHES ARE MERCER MPERIAL REDUCER	S & IO, C.F	C. AND  TO BE NEI  PROVIDE ABILIZING ACKETS (2 MIN.) ATE TO P AO DEG. S FIONS  1/4" DIA. AG BOLT -1/4" MIN.	PROVIDE SPLAYED		3333333	DIA	M.B. TO A. TRUSS AIL 15/A-	UNISTRUT			GSI	EOMETRIC IGNAGE					R		14"x9" ALUM. TREI COVER TO RECI FLOOR SET FLUS ADJACENT SURF TO TYPE EXTC BY McKINLEY	16		EXIST. FLOOR SL SEE DET. 8/A-4. FOR REQUIREMEN	BIOTE
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HO CARPE  A DOHC CARPE  B R. N	ALL FINISHES SHALL COMPLY IN TITLE 19, C.C.R.  ALL ROOM FINISH SCHEDULE MUNLESS SPECIFICALLY INDICATE  CARPET/SHEE  CARPET/TILE  MATERIAL TRANSIT  EXISTING CONC NEW #3 DOWEL SET IN NON-SHAT 24" O.C.)  NEW CONCRETE  NEW CONCRETE	TION IT STATES AND FINIS TO BE EXISTING TO BE EXISTED TO BE EXISTED.	SHES ARE  SHES ARE  SHES ARE  SHES ARE  SHERRICER  SHERRICER  SHENCER  SHEN	T POLY	C. AND TO BE NEI PROJUDE ACIONS TO DE STINON TO DE STINON TO DIA. TO POUNT	PROVIDE SPLAYED	PROJE	CCTOR (N. X. 50 LBS	DIA DET DET S.)	M.B. TO A. TRUSS AIL 15/A- DOUGHT TO DOUGHT TO DOUGHT TO DOUGHT AD DOUGHT AD	UNISTRUT - SEE - 6.2.  UNISTRUT ON SPAN MIN.  PLABLE CHIEF" OR  PISTAD TE STAD	DO D	ROVIDE SIGN ETAIL 5/A-6.  ROVIDE SIGN ETAIL 5/A-6.  ROVIDE SIGN ETAIL 5/A-6.  SE: WHERE A EVENT MOUNT ORS, VERIFY  OR IDEN  TYP  LIBF  LENGTH	SYMBOL OF PER DETAIL TYPE "A" P  TYPE "A" P  TYPE "B" P  ADJACENT B  TIFICAT  TIFICAT  AS REQ'D.  1/32" RAISI CHARACTE GRADE 2 TO MATCH REFER TO  SCHEDULE	EER SCON SINGLE	PROVIDE SINGS PER DISIGN PER DISI	IGN TYPE "A" AND METRIC SYMBOL DTLS.  IGN TYPE "A" AND EOMETRIC SYMBOL DTLS.  IGN TYPE "A" AND OMETRIC SYMBOL DTLS.  IFIGURATIONS OR AT DOUBLE ITECT.  FIGURATIONS OR AT DOUBLE  OOM  OOM  OOM  OOM  OOM  OOM  OOM  O	3 	SLOPE 1%  SLOPE 1%  SINDATION  PAD	THE INTERNATIONAL SYMBOL OF ACCESSII SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND THE BLUE SHALL BE EQUAL TO COLOR # ISO90 IN FEDERAL STANDARD 595a. LOCATE PICTORIAL SYMBOL OF STRIKE SIDE OF DOOR 60" A.F.F. TO CENTERLINE SIGN. AT PAIR OF DOORS PROVIDE SIGNAGE PROVIDE SIGNAGE RIGHT SID MOUNTING LOCATION SHALL ALLOW A PERS BE WITHIN 3" OF SIGN NOT BE WITHIN TRAVI OF DOOR SWING.	T.  2  BILITY  D.  E.  FON TO EL	NEW CONC. TRENCH #3 HORIZ. CONT.  UTILITY LINES - VE SIZE AND QUANTITY PLUMBING & ELECT.	IDENTIFICATION DIV. OF THE STATIOFFICE OF REGULATION OF 10210	I STAMP E ARCHITECT TION SERVICES 07	EXIST. FLOOR SL SEE DET. 8/A-6. FOR REQUIREMEN JOINT BETWEE! NEW & EXIST. CONC.	AB ITS  FINISH & DET  DATE:
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HECU PE  A ORECUR  A ORECUR  B IR. N	ALL FINISHES SHALL COMPLY UNITED IN C.C.R.  ALL ROOM FINISH SCHEDULE MUNICESS SPECIFICALLY INDICATE  S  CARPET/SHEE  S  T  CARPET/TILE  MATERIAL TRANSIT  EXISTING CONC NEW #3 DOWEL SET IN NON-SHAT 24" O.C.)  NEW CONCRETE  3" NEW CONCRETE  90% COMPACTE	TION IT SEE STAB SEE PER SPECIFICATE	ERS 3, 4, 7, 6HES ARE SHES ARE	T POLY	C. AND TO BE NEI PROJUDE ACIONS TO DE STINON TO DE STINON TO DIA. TO POUNT	PROVIDE SPLAYED	PROJE	CCTOR (N. X. 50 LBS	DIA DET DET S.)	M.B. TO A. TRUSS AIL 15/A- DOUGHT TO DOUGHT TO DOUGHT TO DOUGHT AD DOUGHT AD	UNISTRUT - SEE - 6.2.  UNISTRUT ON SPAN MIN.  PLABLE CHIEF" OR  PISTAD TE STAD	DO D	ROVIDE SIGN ETAIL 5/A-6.  ROVIDE SIGN ETAIL 5/A-6.  ROVIDE SIGN ETAIL 5/A-6.  SE: WHERE A EVENT MOUNT ORS, VERIFY  OR IDEN  TYP  LIBF  LENGTH	SYMBOL OF PER DETAIL TYPE "A" P  TYPE "A" P  TYPE "B" P  ADJACENT B  TIFICAT  TIFICAT  AS REQ'D.  1/32" RAISI CHARACTE GRADE 2 TO MATCH REFER TO  SCHEDULE	EER SCON SINGLE	PROVIDE SINGS PER DISIGN PER DISI	IGN TYPE "A" AND METRIC SYMBOL DILS.  IGN TYPE "A" AND EOMETRIC SYMBOL DILS.  IGN TYPE "A" AND OMETRIC SYMBOL DILS.  FIGURATIONS OR AT DOUBLE ITECT.  FIGURATIONS OR AT DOUBLE ITECT.  P  OOM  OOM  100	3 	SLOPE 1%  SLOPE 1%  SINDATION  PAD	THE INTERNATIONAL SYMBOL OF ACCESSII SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND THE BLUE SHALL BE EQUAL TO COLOR # ISO90 IN FEDERAL STANDARD 595a. LOCATE PICTORIAL SYMBOL OF STRIKE SIDE OF DOOR 60" A.F.F. TO CENTERLINE SIGN. AT PAIR OF DOORS PROVIDE SIGNAGE PROVIDE SIGNAGE RIGHT SID MOUNTING LOCATION SHALL ALLOW A PERS BE WITHIN 3" OF SIGN NOT BE WITHIN TRAVI OF DOOR SWING.	T.  2  BILITY  D.  E.  FON TO EL	NEW CONC. TRENCH #3 HORIZ. CONT.  UTILITY LINES - VE SIZE AND QUANTITY PLUMBING & ELECT.	IDENTIFICATION DIV. OF THE STATIOFFICE OF REGULATION OF THE STATION OF THE STA	I STAMP E ARCHITECT TION SERVICES 07	EXIST. FLOOR SL SEE DET. 8/A-6. FOR REQUIREMEN JOINT BETWEE! NEW & EXIST. CONC.	TINISH & DET  DATE:  JOB NO.



RAV

-MOTOR STARTER

NO NORMALLY OPEN NC NORMALLY CLOSED

BY DIV 16

460/3/60

111

EF

-RELAY

4-HOUR TIMER SWITCH

(1) CONDENSATE OVERFLOW SENSOR (FLOAT SWITCH) SHALL BE MOUNTED ON THE FAN COIL SECONDARY DRAIN PAN AND SHALL DEACTIVATE AND LOCK OUT THE CONDENSING UNIT WHEN THE CONDENSATE PAN LEVEL REACHES UNACCEPTABLE LEVEL. A RED ALARM SHALL ILLUMINATE ON THE THERMOSTAT IN THE EVENT OF UNACCEPTABLY HIGH CONDENSATE LEVEL.

(2) PROVIDE TRANSFORMER (120V/24V) WHERE REQUIRED.

# GENERAL NOTES

- DUCT FABRICATION AND INSTALLATION SHALL CONFORM TO THE 'HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE' AS PUBLISHED BY SMACNA 1991 EDITION.
- DUCT LINER APPLICATION SHALL CONFORM TO THE 'HYAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE' AS PUBLISHED BY SMACNA 1991 EDITION.
- 3. IF ANY EQUIPMENT SUBMITTED FOR APPROVAL HAS A DIFFERENT PHYSICAL SIZE OR ARRANGEMENT FROM THAT SHOWN ON THE DRAWINGS A FULL SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO SHOW ALL INSTALLATION DETAILS.
- 4. BRANCHES TO DIFFUSER, REGISTERS AND GRILLES SHALL BE SUPPLIED WITH MANUAL VOLUME DAMPERS, DAMPER QUADRANT SHALL BE 3/8 MINIMUM, POSITION TO BE INDICATED BY QUADRANT. ALL DAMPERS THAT ARE INACCESSIBLE SHALL BE PROVIDED WITH REMOTE OPERATORS SIMILAR TO VENTLOCK 677, PLAIN FINISH.
- 5. EQUIPMENT ACCESS SHALL CONFORM TO UMC SECTION 503.
- 6. MISCELLANEOUS METAL, ANGLES, BRACING OR SUPPORTS EXPOSED TO THE WEATHER SHALL BE GALYANIZED IRON OR BLACK IRON PAINTED WITH ONE COAT OF RUST INHIBITING PAINT AND ONE COAT OF GRAY PRIMER
- ALL SUPPLY AND RETURN DUCTS SHALL BE SEALED AIRTIGHT AT ALL DUCT JOINTS, BRANCH TAKEOFFS AND CONNECTIONS TO EQUIPMENT WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, AS RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK DUCT TAPE SHALL NOT BE USED AS A SEALER DUCT EXPOSED IN CONDITIONED SPACES NEED NOT BE SEALED.
- DUCT SEAMS AND JOINTS EXPOSED TO WEATHER SHALL BE CAULKED WATERTIGHT WITH ACRYLIC SEALANT AND SHALL HAVE 4 INCH MINIMUM WIDTH OF 6 OUNCE CANVAS PASTED ON WITH LAGGING ADHESIVE. PAINT WITH ASPHALT BASED ALUMINUM PAINT TO MATCH ADJACENT WORK
- 9. GAS FIRED EQUIPMENT SHALL HAVE CLEARANCES PER MANUFACTURER'S SPECIFICATIONS BASED ON AGA APPROVAL.
- 10. MECHANICAL CONTRACTOR SHALL COORDINATE THEIR INSTALLATION LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION OF EQUIPMENT.
- I. PROVIDE PERMANENT IDENTIFICATION NAMEPLATES, BLACK BAKELITE WITH 1/2 INCH WHITE ETCHED LETTERS, ON EQUIPMENT AND MOUNT BY MANUFACTURER'S NAMEPLATE.
- 12. MAINTENANCE MANUALS FROM EQUIPMENT MANUFACTURERS WILL BE REQUIRED, 3 COPIES, EACH IN ITS OWN 3-RING BINDER
- 13. ALL CONTROL WIRING SHALL BE IN CONDUIT AND ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR ALL THERMOSTATS SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR
- 14. INTERCONNECTING WIRING SAFETY SWITCHES, RELAYS, CONTROLLERS AND MOTOR STARTERS WHICH ARE INTEGRAL COMPONENTS OF PACKAGED EQUIPMENT SHALL BE PROVIDED AS AN INTEGRAL PART OF THAT EQUIPMENT.
- 15. ALL EQUIPMENT, DUCTWORK, PIPEWORK ETC. THAT IS REMOVED DURING DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR AT HIS EXPENSE.
- 16. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE

TITLE 24, PART 2, CCR, 1998 CBC (1997 UBC WITH 1998 CA AMEND) TITLE 24, PART 3, CCR, 1998 CEC (1996 NEC WITH CA AMEND) TITLE 24, PART 4, CCR, 1998 CMC (1997 UMC WITH 1998 CA AMEND) TITLE 24, PART 5, CCR, 1998 CPC (1997 UPC WITH 1998 CA AMEND) TITLE 24, PART 9, CCR, 1998 CFC (1997 UFC WITH 1998

CA AMEND) TITLE 24, PART 12, CCR, 1998 BUILDING STANDARDS CODE (1998 STATE REFERENCED STANDARDS CODE)

DUCT (LINED) DUCT (LINED) EXISTING TO REMAIN 1111111111 EXISTING TO BE REMOVED FLEXIBLE DUCT DUCT FLEXIBLE CONNECTION SQUARE ELBOW WITH TURNING VANES 口 RADIUS ELBOW DUCT TRANSITION 45 DEGREE BRANCH TAKE-OFF <del>-</del> END DOUBLE BRANCH AL. WITH TURNING VANES SUPPLY AIR DIFFUSER/DUCT RETURN AIR GRILLE/DUCT EXHAUST AIR GRILLE/DUCT DUCT RISE/UP THRU ROOF OR FLOOR DUCT DROP/DOWN THRU ROOF OR FLOOR ACCESS DOOR ABOVE FINISHED FLOOR ARCH ARCHITECTURAL CUBIC FEET PER MINUTE DIAMETER DOOR LOUVER DWG DRAWING (E) EXISTING FIRE DAMPER 1 FIRE SMOKE/DAMPER MD MOTORIZED DAMPER SHEETMETAL (3) SMOKE DETECTOR SWITCH ₩. 1 THERMOSTAT (MOUNT @ 48' A.F.F.) U/C UNDERCUT VD MANUAL VOLUME DAMPER

DESCRIPTION

NUMBER

EQUPIMENT SYMBOL

DUCT (RECTANGULAR OR ROUND)

CIATES

8

CHNOL

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**B** 

AODEL
DING 400
DISTRICT
CAMPUS
-SEA, CA 92007

OMMON

LEGEND

ABBR

SYMBOL

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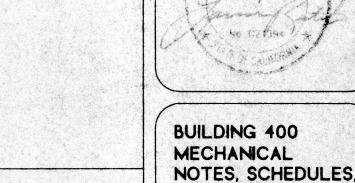
T M A D Engineers, Inc. Mechanical and Electrical Consulting Engineers

Project Number 2100.012 TELEPHONE (858) 271-9808 FAX: (858) 271-9932 9845 ERMA ROAD SAN DIEGO, CA 92131 tmad@cts.com



DSA APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 102107 SOME FLS C SS



& LEGEND

REVISIONS: DSA REVISIONS 00/00/00  $\frac{\langle x \rangle}{\langle x \rangle}$ 

DATE: 4/10/2000 JOB NO.

9808 SHEET:

M1.

WIRING DIAGRAM

THERMOSTAT

NO SCALE

OVERFLOW

SENSOR

(FLOAT SWITCH)

CU 1

CONDENSING UNIT

(OUTDOOR)

24Y LOW YOLTAGE WIRING-

(VERIFY NUMBER OF WIRES

WITH MANUFACTURER)

## EQUIPMENT

A. MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON GRADE - 30% OF OPERATING WEIGHT FIXED EQUIPMENT ON STRUCTURE - 45% OF OPERATING WEIGHT

- ) FOR FLEXIBLY MOUNTED EQUIPMENT USE  $4 \times$  THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 X HORIZONTAL FORCE. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE INSPECTOR OF RECORD AND THE DSA FIELD ENGINEER
- B. MECHANICAL EQUIPMENT NOT EXCEEDING 400 LBS SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON STRUCTURE - 50% OF OPERATING WEIGHT

C. IF ANY CHANGES ARE MADE IN THE EQUIPMENT THAT CAUSE IT TO INCREASE IN WEIGHT, SIZE OR ATTACHMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING STRUCTURAL CALCULATIONS THAT ARE PREPARED AND SIGNED BY A STRUCTURAL ENGINEER THAT IS REGISTERED IN THE STATE OF CALIFORNIA. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESUBMITTING TO AUTHORITIES FOR REVIEW AND APPROVAL.

## FLEXIBLE DUCTS

- A. CONSTRUCTION: FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER 1-1/2 INCH THICK FIBERGLASS INSULATION (K=25 @ 75 DEGREES F), ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINYL LINER INDIVIDUAL LENGTHS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
- B. INSTALLATION: FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH 2 INCH WIDE GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. THE MAXIMUM LENGTH CONNECTING TO TERMINAL OUTLETS SHALL BE SEVEN FEET.
- C. FLAME SPREAD: FLEXIBLE DUCTS, INSULATION JACKETS, FINISHED, ADHESIVES, TAPES, ETC. HAVE A FLAME SPREAD CLASSIFICATION NOT TO EXCEED 25 AND A SMOKE DEVELOPMENT RATING NOT TO EXCEED 50 AS TESTED BY UNDERWRITERS LABORATORIES.

MANUFACTURER SFM LISTING \*

FLEXIBLE TUBING CO.

8534-149:100

'THERMAFLEX'

GENERAL FLEX CORP. 'GLASSFLEX'

8532-125:100

# **SPECIFICATIONS**

DIVISION IS MECHANICAL

PART I GENERAL

1.1 CONDITIONS

- A. GENERAL AND SUPPLEMENTARY CONDITIONS APPLY SEE ARCHITECTURAL SPECIFICATIONS.
- 12 REQUIREMENTS
- A. COMPLY WITH THE LATEST LOCALLY ADOPTED VERSION OF THE UNIFORM MECHANICAL CODE, AND ALL OTHER APPLICABLE CODES.
- B. EXAMINE BUILDING THOROUGHLY, LOCATIONS AND ARRANGEMENT IS APPROXIMATE.
- C. APPLY AND PAY FOR ALL PERMITS AND INSPECTIONS.
- D. LABOR BY SKILLED MECHANICS UNDER COMPETENT FOREMAN.
- 13 EXISTING OPERATIONS:
- A. CONDUCT AND ARRANGE THE WORK UNDER THIS CONTRACT IN A MANNER THAT WILL CAUSE THE MINIMUM INTERFERENCE WITH THE DAILY FUNCTIONS WITHIN THE BUILDING.
- B. INCLUDE ALL PREMIUM TIME WHICH MAY BE REQUIRED FOR PERFORMING WORK IN SUCH PROCEDURE AND AT SUCH TIME AS MAY BE NECESSARY TO CAUSE THE LEAST INTERFERENCE WITH THE FUNCTION OF THE OWNER

PART 2 PRODUCTS

- 2.1 DUCTWORK
- A. DUCTWORK: GALVANIZED, GAUGE AND CONSTRUCTION PER RECOMMENDATIONS OF THE LATEST EDITION OF THE 'HYAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE' AS PUBLISHED BY SMACNA 1991 EDITION.
- B. ADHESIVES AND INSULATION MATERIALS SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50. ADHESIVE TO BE WATERPROOF.
- C. ALL INTERIOR SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH FIBER GLASS DUCT INSULATION WITH A FOIL SCRIM KRAFT VAPOR BARRIER FACING, FACTORY APPLIED. INSULATION SHALL BE 1-1/2 INCH THICK, 3/4 POUND DENSITY. DUCT INSULATION SHALL ALSO COMPLY WITH THE REQUIREMENTS OF TITLE 24.
- D. FLEXIBLE DUCTS SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER 1-1/2 INCH THICK FIBERGLASS INSULATION (K=25 & 75 DEGREES F), ENCAPSULATED SPRING STEEL WIRE HELIX AND IMPERVIOUS, SMOOTH, NON-PERFORATED INTERIOR VINTL LINER INDIVIDUAL LENGTHS SHALL CONTAIN FACTORY FABRICATED STEEL CONNECTION COLLARS.
- E. FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH 2 INCH WIDE 28 GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. THE MAXIMUM LENGTH WILL BE 7 FEET AND CAN BE SUED AT THE TERMINAL ENDS ONLY, EXCEPT THAT FLEXIBLE DUCTS PROPERLY INSTALLED MAY BE USED TO CROSS SEISMIC JOINTS WITHOUT OFFSETS.
- F. DUCTLINER: ALL DUCTS ON THE EXTERIOR OF THE BUILDING AND DUCTS WITHIN 15 FEET OF A/C UNITS. AIR HANDLERS, FAN COIL UNITS, ETC., AND WHERE SHOWN ON DRAWINGS, SHALL BE LINED WITH 1-1/2 INCH THICK 1-1/2 POUNDS DENSITY FIBERGLASS DUCT LINER DUCT LINING SHALL COMPLY WITH TITLE 24.
- G. DUCT LINER SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WITH RUBBER BASED ADHESIVE, 50 PERCENT MINIMUM COVERAGE AND STUD WELDED PIN AND CLIPS AT 12 INCHES ON CENTER ALL EXPOSED EDGES AND JOINTS SHALL BE SEALED WITH ADHESIVE.
- H. STAINLESS STEEL DUCTS: ASTM A167, TYPE 304 USING CONTINUOUS EXTERNAL WELDED JOINTS.

22 REFRIGERANT PIPING

- A. REFRIGERANT PIPING SHALL BE ACR TYPE COPPER TUBING.
- B. ALL REFRIGERANT PIPING SHALL BE INSULATED WITH J-M EROTUBE, FOAM PLASTIC, MINIMUM 3/4 INCH THICK
- REFRIGERATION PIPING SHALL BE INSTALLED PER INSTRUCTIONS OF MANUFACTURER OF THE CONDENSING UNIT. JOINTS MUST BE CLEANED THOROUGHLY BEFORE SWEATING. USE FINE EMERY CLOTH OR FITTING BRUSHES. AN INERT GAS (SUCH AS NITROGEN) MUST BE CONTINUOUSLY PASSED THROUGH THE COPPER PIPING WHEN SWEATING JOINTS TO PREVENT THE FORMATION OF COPPER OXIDE. SOLDER SHALL BE SIL-FOS-STA-BRIGHT WITH APPROPRIATE FLUX. THE SYSTEM SHALL BE EVACUATED USING THE TRIPLE EVACUATION METHOD.
- 23 CONTROLS
- AS INDICATED ON DRAWINGS
- 2.4 EQUIPMENT
- AS INDICATED ON DRAWINGS
- 25 AIR DISTRIBUTION
- AS INDICATED ON DRAWINGS
- 26 AIR BALANCE

CONTRACTOR SHALL BE EITHER AABC OR NEBB CERTIFIED. SUBMIT PERFORMANCE GUARANTY FOR APPROPRIATE ORGANIZATION.

PART 3 EXECUTION

- 3.1 DUCTWORK
- A. DUCTWORK INSTALLATION SHALL CONFORM TO 'HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AS PUBLISHED BY SMACNA 1991 EDITION.
- B. FLEXIBLE DUCTS SHALL BE SUPPORTED AT OR NEAR MID-LENGTH WITH 2 INCH WIDE GAUGE STEEL HANGER COLLAR ATTACHED TO THE STRUCTURE WITH AN APPROVED DUCT HANGER INSTALLATION SHALL MINIMIZE SHARP RADIUS TURNS OR OFFSETS. THE MAXIMUM LENGTH CONNECTING TO TERMINAL OUTLETS SHALL BE SEVEN FEET.
- C. DUCT WRAPS SHALL BE INSTALLED BY WRAPPING ENTIRELY ROUND THE DUCT AND SECURING WITH 18 GAUGE GALVANIZED ANNEALED WIRE AT NOT MORE THAN 12 INCH CENTERS. DUCT WRAP SHALL LAP NOT LESS THAN 6 INCH LONGITUDINAL JOINTS. INSULATION AND UNDERSIDE OF DUCTS NOT MORE THAN 12 INCHES IN WIDTH SHALL BE SECURED TO DUCT SURFACES WITH AN APPROVED ADHESIVE. AT ACCESS DOORS, INSULATION SHALL BE NEATLY CUT AROUND DOORS AND EDGES SHALL BE SECURED TO DOOR FRAMES WITH AN APPROVED ADHESIVE.
- 32 PIPING
- A. ROUTE PIPING IN ORDERLY MANNER, PLUMB AND PARALLEL TO BUILDING STRUCTURE, AND MAINTAIN GRADIENT.
- B. INSTALL PIPING TO CONSERVE BUILDING SPACE AND NOT INTERFERE WITH USE OF SPACE, OTHER WORK OR EQUIPMENT.
- C. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
- D. ALLOW CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.
- E. ALLOW ACCESS WHERE VALVES AND FITTINGS ARE NOT EXPOSED. COORDINATE SIZE AND LOCATION OF ACCESS DOORS
- F. PREPARE PIPE, FITTINGS, SUPPORTS, AND ACCESSORIES FOR FINISH PAINTING.
- G. INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

- H. INSTALL UNIONS DOWNSTREAM OF VALVES AND AT EQUIPMENT OR APPARATUS CONNECTIONS. INSTALL DIELECTRIC UNIONS WHERE JOINING DISSIMILAR MATERIALS.
- INSTALL BRASS MALE ADAPTERS EACH SIDE OF VALVES IN COPPER PIPED SYSTEM, SWEAT SOLDER ADAPTERS TO PIPE
- J. INSTALL GATE VALVES FOR SHUT-OFF AND TO ISOLATE EQUIPMENT, PART OF SYSTEMS, OR VERTICAL RISERS.
- K INSTALL GLOBE VALVES FOR THROTTLING, BYPASS, OR MANUAL FLOW CONTROL SERVICES.
- 33 BALANCE
- A. BALANCE SYSTEM TO AIR QUANTITIES NOTED ON DRAWINGS AND AS RECOMMENDED IN THE ASSOCIATED AIR BALANCE COUNCIL BALANCE HANDBOOK PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT, BY AN AABC REGISTERED CONTRACTOR, AND SUBMIT 3 SETS FOR EVALUATION AND APPROVAL BY THE ENGINEER
- 3.4 GENERAL
- A. REMOVE ALL DEBRIS FROM SITE AT THE END OF EACH WORK DAY.
- B. MATERIALS TO BE INSTALLED PER MANUFACTURERS RECOMMENDATION.
- 35 GUARANTEE
- A. ALL MATERIALS AND LABOR ONE YEAR
- B. COMPRESSOR AND REFRIGERANT CIRCUIT FIVE YEARS.
- 36 OPERATION AND MAINTENANCE MANUALS
- A. OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED FOR THE EQUIPMENT, VALVES AND CONTROLS. SUBMIT 3 SETS FOR EVALUATION AND APPROVAL BY THE ENGINEER
- 3.7 RECORD AS-BUILT DRAWINGS
- A. SUBMIT REPRODUCIBLE AS-BUILT DRAWINGS FOR ALL WORK IN DIVISION 15. AS BUILT-DRAWINGS SHALL REFLECT THE ACTUAL INSTALLATION, SIZING AND CONFIGURATION
- 38 SYSTEM TURNOVER
- A. PRIOR TO TURNING THE SYSTEM OVER TO THE USER, A 4 - HOUR TRAINING SESSION SHALL BE GIVEN TO THE FACILITY TO REVIEW THE CONTROLS SYSTEM.

T M A D Engineers, Inc. Mechanical and Electrical Consulting Engineer Project Number 2100.012 TELEPHONE (858) 271-9808 FAX: (858) 271-9932

SAN DIEGO, CA 92131



DSA APPROVAL

tmad@cts.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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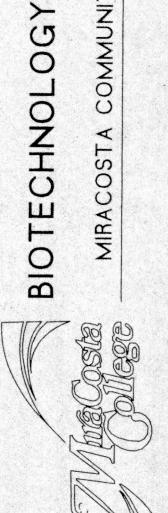
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- 1) 14"x12" OSA DUCT UP THRU ROOF TO GRAVITY INTAKE GY-1, RUN DUCTWORK BETWEEN JOISTS AND PROVIDE OFFSETS AS
- 2) CONNECT 14"x12" STAINLESS STEEL DUCT TO FUME HOOD AND TRANSITION AS REQUIRED TO HOOD OPENING. RUN DUCTWORK BETWEEN JOIST AND PROVIDE OFFSET AS REQUIRED. SET AT
- 3 CONNECT 12" STAINLESS STEEL DUCT TO FUME HOOD AND TRANSITION AS REQUIRED TO HOOD OPENING. RUN DUCTWORK BETWEEN JOIST AND PROVIDE OFFSET AS REQUIRED. SET AT
- 4 PROVIDE MOTORIZED DAMPER IN THE DUCTWORK, SEE SEQUENCE OF OPERATION.
- 5 ALL FUMEHOOD DUCTWORK SHALL BE STAINLESS STEEL.

Design

**Associetes** 

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BUILDING 400 MECHANICAL FLOOR PLAN

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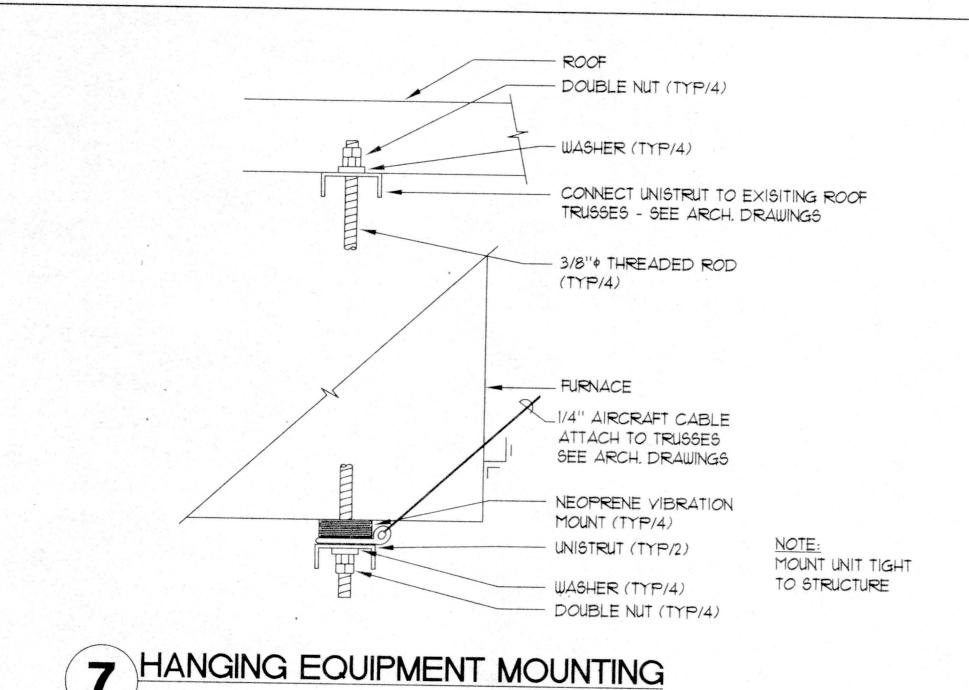
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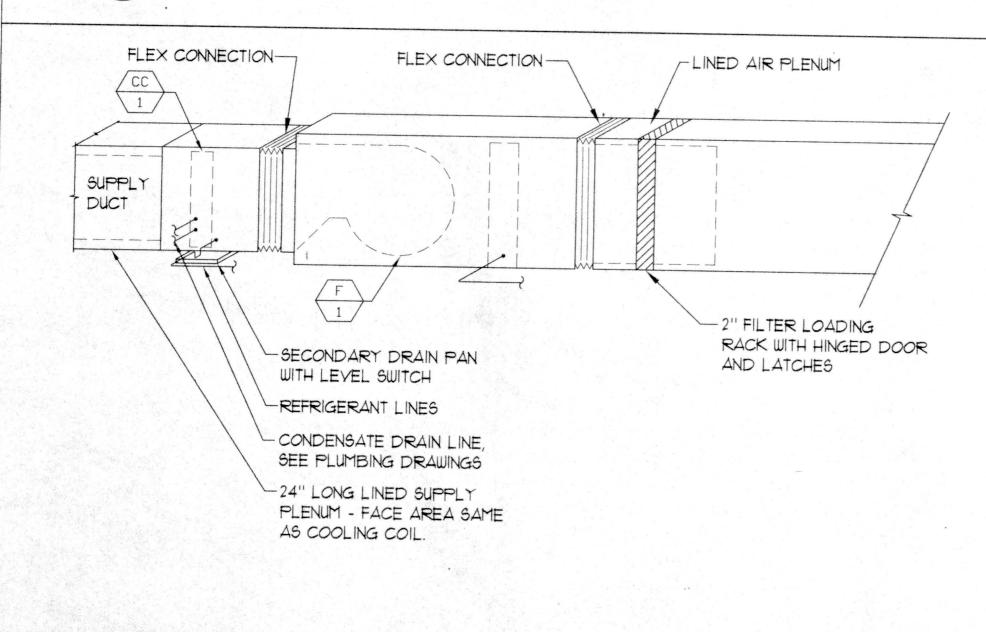
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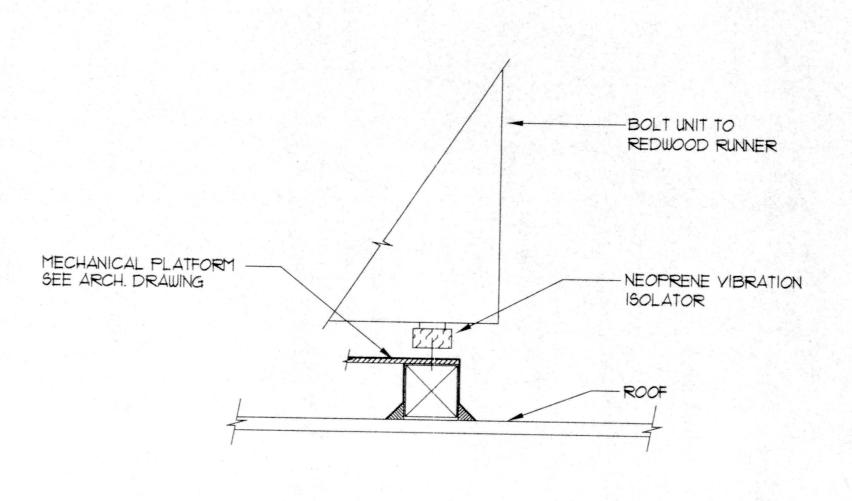
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# 6 DUCT THRU ROOF

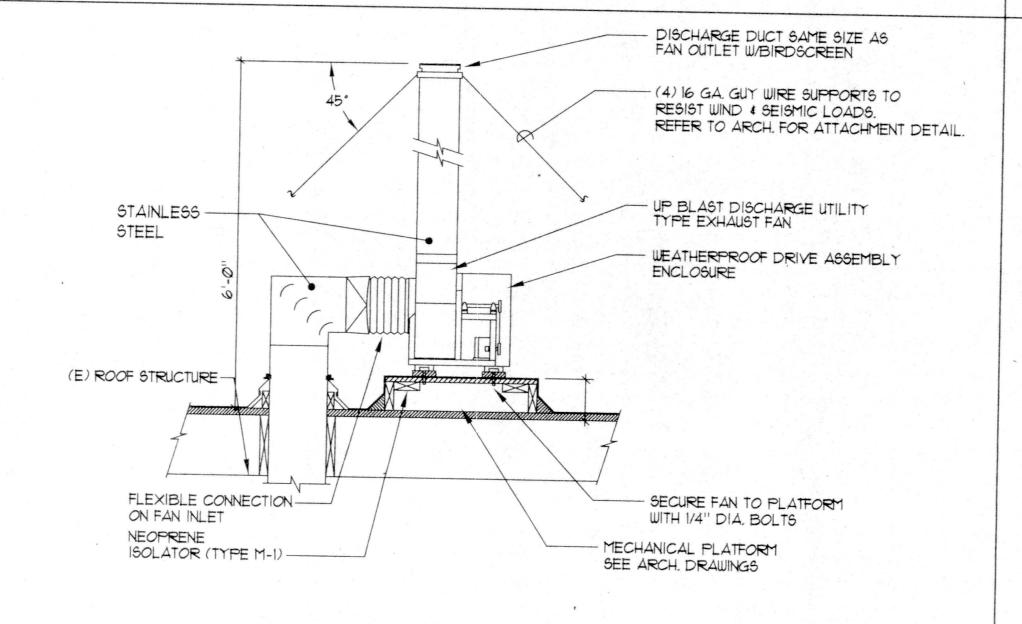




8 FURNACE DETAIL



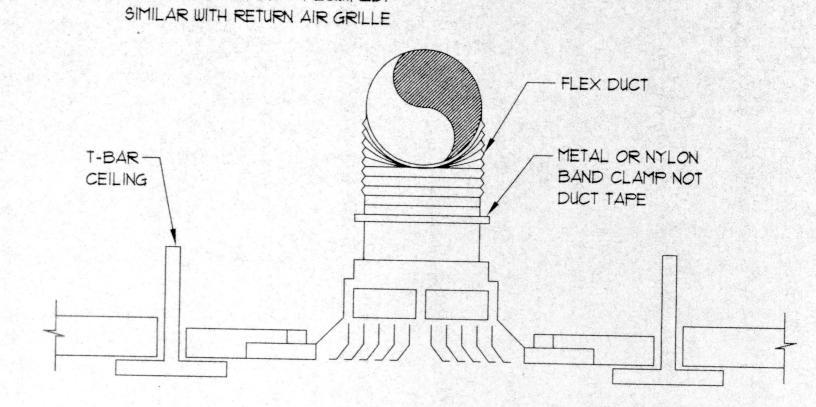
# 3 CONDENSING UNIT (CU-1) MOUNTING



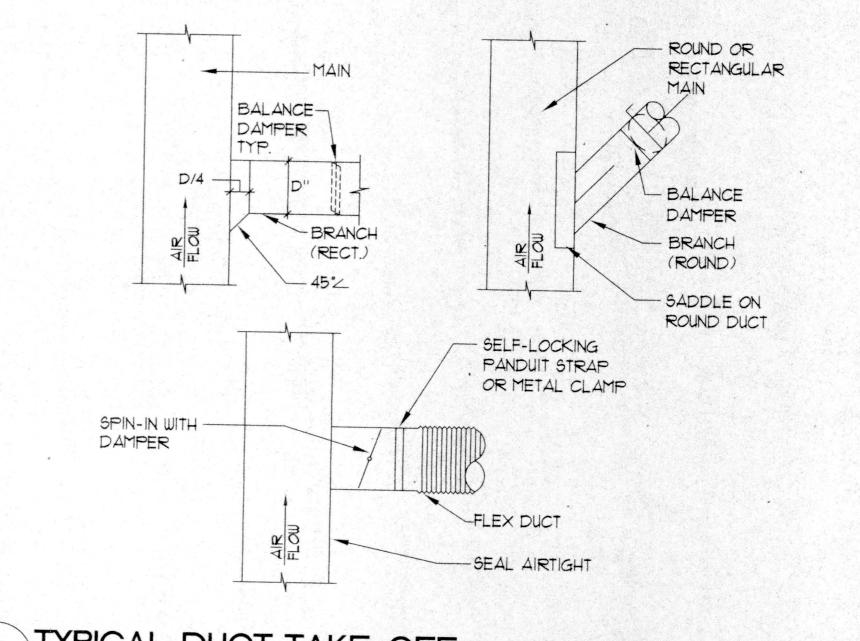
4 FUME HOOD EXHAUST FAN

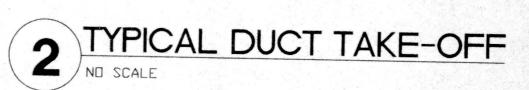
NOTCHED INTO 2" x SHAPED SUPPORT. 2. VERIFY PLATFORM TO SIZE TO SUIT INSTALLED EQUIPMENT.

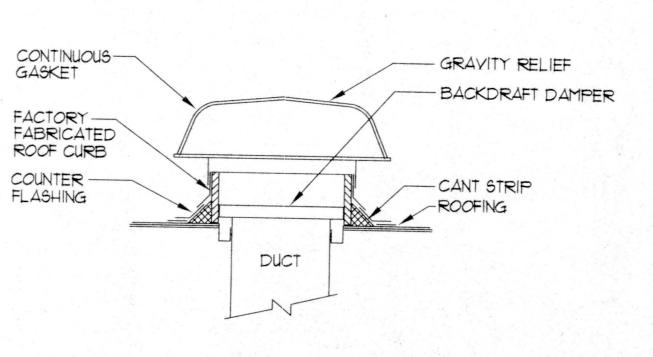
NOTE: I. BOLT MOUNT UNIT TO CONT. 3" x 8" NOTE: PROVIDE ROUND TO SQUARE ADAPTER AND FILLER PANEL IF REQUIRED.



# DIFFUSER MOUNTING DETAIL







1. SEE ARCH DRAWINGS FOR BLOCKING SUPPORT OF ROOF CURB.

GRAVITY INTAKE



TELEPHONE (858) 271–9808 FAX: (858) 271–9932 SAN DIEGO, CA 92131 tmad@cts.com

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**BUILDING 400** 

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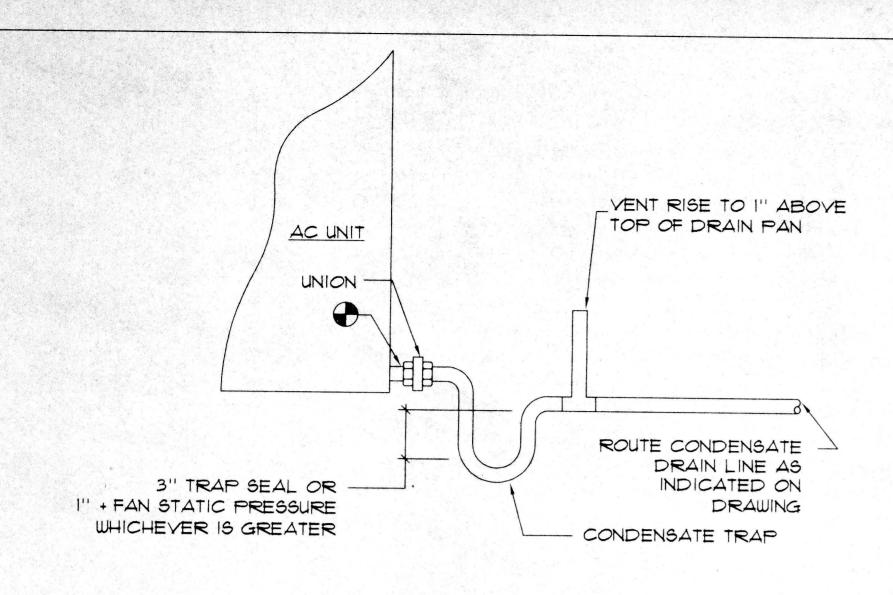
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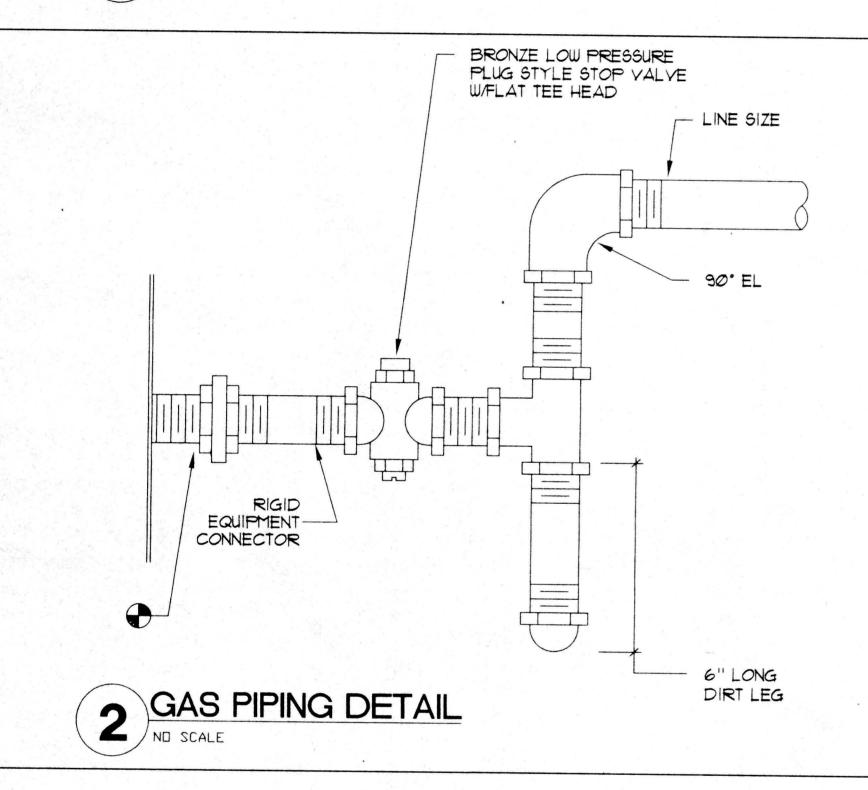
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# CONDENSATE DRAIN DETAIL



#### PLUMBING REGULATORY NOTES PROJECT NOTES

## SEISMIC RESTAINTS

A. SEISMIC BRACING AND ANCHORAGE OF PLUMBING PIPING SHALL BE IN ACCORDANCE WITH THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS, PUBLISHED BY SMACNA, AS APPROVED BY DSA FIELD ENGINEER

AREA SEPARATION PENETRATIONS

LOCATION AND RATING OF WALLS, ARE IDENTIFIED ON ARCHITECTURAL FLOOR PLANS

#### PIPING

- A. WHERE PIPING PENETRATES THE AREA SEPARATION WALL, FLOOR OR ROOF SURFACE THE SECTION PASSING THROUGH THE WALL SHALL BE ONLY OF METAL.
- B. PENETRATIONS OF RATED ASSEMBLIES SHALL INCLUDE UL THROUGH-PENETRATION FIRE STOP DEVICES AND OR FIRE STOP SYSTEM ADDITIONAL REQUIREMENTS AS FOLLOWS:
- THROUGH-PENETRATION FIRE STOP DEVICES:

PIPING MAT.	PENETRATION TYPE	ASSEMBLY TYPE	HR RATING SYS.	uL
CAST IRON COPPER COPPER	FLOOR FLOOR WALL	CONC. MTL DECK CONC. MTL DECK FRAMED		CAJ116 CAJ106 WL1038

A) FIRE STOPPING DEVICES SHALL BE COMPLETE FACTORY BUILT PRODUCTS

MANUFACTURER UL FILE \* CSFM LISTING \* PROSET SYSTEMS RIØ338(N) N/A

2. THROUGH-PENETRATION FIRE STOP SYSTEMS:

CAST IRON FLOOR CONC. MTL DECK 3/3 CAJIOOI COPPER FLOOR CONC. MTL DECL 3/0 CAJIOOI COPPER INSUL FLOOR MTL. DECK 3/1 CAJ500I COPPER WALL FRAMED 2/0 WLIOOI COPPER INSUL WALL FRAMED 2/1-1/2 WL500I	PIPING MAT.	PENETRATION TYPE	ASSEMBLY H TYPE	R RATING SYS.	uL	
COPPER WALL FRAMED 2/0 WL1001	COPPER	FLOOR	CONC. MTL DECL	3/0	CAJIOOI	
	COPPER	WALL	FRAMED	2/0	WL1001	

A) FIRE STOPPING SHALL BE UL LISTED CAULK FILL MATERIAL

CSFM LISTING \* UL FILE \* MINNESOTA 04485-094:101-106 R9700(N)

MINING & MFG

- C. FIRE STOPPING DEVICES AND MATERIALS SHALL BE APPLIED PER MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
- D. FIRE RATING SHALL BE EQUAL TO AREA SEPARATION RATING.

# GENERAL

- A. VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE EVENT OF ANY DISCREPANCIES THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED IN WRITING. IN NO CASE SHALL DIMENSIONS BE SCALED FROM THE PLANS, SECTIONS, ELEVATIONS OR DETAILS ON THE PLUMBING DRAWINGS.
- B. ALL OMISSIONS AND OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH ANY OF THE AFFECTED WORK
- C. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF CBC AND CPC.
- D. THE PLUMBING CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED PLUMBING SYSTEM, NOT THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR, MATERIALS, EQUIPMENT AND ACCESSORIES NECESSARY TO ACHIEVE THE FINISHED PLUMBING SYSTEM.

## ELECTRICAL POWER CONNECTIONS

- A. FIELD VERIFY AND COORDINATE WITH ELECTRICAL SYSTEMS INSTALLER EXACT ELECTRICAL REQUIREMENTS OF ALL PLUMBING PRODUCTS REQUIRING POWER
- B. CONFIRM ELECTRICAL VOLTAGES AND LOADS WITH AVAILABLE VOLTAGES AND LOADS IN ORDER TO ENSURE THAT CAN BE CONNECTED.
- C. ELECTRICAL POWER CONNECTIONS SHALL BE MADE BY ELECTRICAL SYSTEMS INSTALLER UNDER PROVISIONS OF DIVISION 16.

EXISTING BUILDING CONDITIONS

## PLUMBING SYSTEMS

- A. LOCATION AND SIZE OF EXISTING PLUMBING PIPING AND VALVES IS BASED ON EXISTING CONSTRUCTION DOCUMENTS FURNISHED BY THE OWNER AND FIELD SURVEYS
- B. LOCATION OF CONCEALED OR NOT READILY ACCESSIBLE PIPING IS BASED ON EXISTING CONSTRUCTION DOCUMENTS.
- C. EXISTING UNDERGROUND PLUMBING LINES SHOWN ARE BASED ON EXISTING CONSTRUCTION DOCUMENTS WHICH INDICATE APPROXIMATE LOCATION ONLY.

# INTERRUPTION OF SERVICE

- A. PRIOR TO THE SHUT-DOWN OF ANY PLUMBING, BUILDING DRAIN/DWY SYSTEM, OR TIE-IN, MINIMUM 72 HOURS PRIOR NOTICE SHALL BE GIVEN TO THE SCHOOL ADMINISTRATION. PROVIDE THE FOLLOWING INFORMATION:
- 1. SYSTEMS AFFECTED
- 2. PLANNED TIME AND LENGTH OF INTERRUPTION
- 3. AREAS AFFECTED WORK SHALL NOT COMMENCE UNTIL RECEIPT OF WRITTEN NOTICE
- B. WHERE SERVICE INTERRUPTION IMPACTS DAILY OPERATIONS, AT THE DISCRETION OF THE SCHOOL ADMINISTRATION THESE INTERRUPTIONS SHALL BE MADE DURING OFF HOURS (PREMIUM TIME).

# LEGEND

STMBOL	ABBREV.	DESCRIPTION
	CW	COLD WATER (DOMESTIC)
	HW	HOT WATER (DOMESTIC)
	HWR	HOT WATER RETURN (DOMESTIC)
—— G ——	G	FUEL GAS (LOW PRESSURE)
	(E)	EXISTING PIPING
——AW ———	AW	ACID WASTE
AV	AV	ACID VENT
FCO	FCO	FLOOR CLEAN OUT
	UP	UP/RISE
<del></del>	DN	DOWN/DROP
		TEE BRANCH
•	P.O.C.	POINT OF CONNECTION
	ABV.	ABOVE
	BEL.	BÉL <i>O</i> W

4111111 REMOVE EXISTING PIPING  $\longrightarrow$ SHUT OFF OR ISOLATION VALVE

CEILING

CD CONDENSATE DRAIN FCO FLOOR CLEANOUT

WCO WALL CLEANOUT CONN CONNECTION

ND

TYP TYPICAL

VENT THROUGH ROOF KEYNOTE REFERENCE

FLOOR

CA COMPRESSED AIR

DI

VACUUM

DEIONIZED WATER

SSOCIATE

Design

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PLUMBING NOTES AND LEGEND

T M A D Engineers, Inc. Mechanical and Electrical Consulting Engineer Project Number 2100.012



DSA APPROVAL

tmad@cts.com

TELEPHONE (858) 271-9808

FAX: (858) 271-9932

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES 04, 102107

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# PLUMBING SPECIFICATIONS

- 1.1 SURVEY OF SITE
- A. BEFORE SUBMITTING PROPOSALS FOR THIS WORK, EACH BIDDER SHALL BE FAMILIAR WITH PLANS AND SPECIFICATIONS AND SHALL HAVE EXAMINED THE PREMISES AND UNDERSTOOD THE CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE IN PERFORMING THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THE CONNECTIONS ON BEHALF OF THE CONTRACTOR FOR ANY ERROR THROUGH NEGLIGENCE ON HIS PART.
- 12 CODE ANALYSIS
- A. THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:
- 1. 1997 UBC AND 1998 CALIFORNIA AMENDMENTS (98 CALIFORNIA BUILDING CODE PART 2, THIS 24, CCR)
- 2. 1997 NEC AND 1998 CALIFORNIA AMENDMENTS (98 CALIFORNIA ELECTRICAL CODE PART 3, TITLE 24, CCR)
- 3. 1997 UMC AND 1998 CALIFORNIA AMENDMENTS (98 CALIFORNIA MECHANICAL CODE PART 4, TITLE 24, CCR)
- 4. 1997 UPC AND 1998 CALIFORNIA AMENDMENTS (98 CALIFORNIA PLUMBING CODE PART 5, TITLE 24, CCR)
- 5. 1997 UFC AND 1998 CALIFORNIA AMENDMENTS (98 CALIFORNIA FIRE CODE PART 9, TITLE 24, CCR)

## 13 SUBMITTALS

- A. SUBMITTALS ARE REQUIRED ON EVERY ITEM TO BE FURNISHED WHETHER OR NOT IT IS THE SPECIFIED ITEM
- B. SIX (6) BOUND COPIES OF EACH SHOP DRAWING, INDICATING PROPOSED LAYOUT, MATERIAL LISTS AND/OR PLATES OR BROCHURES OF MATERIALS AND EQUIPMENT SPECIFIED HEREIN SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW WITHIN FIFTEEN (15) DAYS AFTER AWARD OF CONTRACT. NO WORK INDICATED ON ANY ONE SHOP DRAWING SHALL BE STARTED UNTIL SUCH DRAWING HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER
- C. RECORD DRAWINGS: TWO (2) COMPLETE SETS OF "AS-BUILTS".

# PART 2 MATERIALS

- 2.1 PIPE AND FITTINGS
- A. ACID (CHEMICAL) WASTE PIPING, BURIED
  - 1. POLYPROPYLENE PIPE: ASTM F-1290, SCH 40, FLAME RETARDANT "ORION" RIONFUSE BLUELINE CORROSION RESISTANT DRAINAGE
- 2. FITTINGS: ASTM F-1290, SCH 40, FLAME RETARDANT POLYPROPYLENE
- 3. JOINTS: PIPE AND FITTINGS SHALL BE JOINED USING THE "ORION" RIONFUSE JOINING MACHINE. EACH FITTING SOCKET SHALL HAVE A MOLDED RIONFUSE HEAVY GAUGE RESISTANCE WIRE.
- B. ACID (CHEMICAL) WASTE PIPING, ABOVE GRADE
- 1. POLYPROPYLENE PIPE: ASTM F-1290, SCH 40, FLAME RETARDANT "ORION" MECHANICAL JOINT BLUELINE CORROSION RESISTANT DRAINAGE SYSTEM
- 2. FITTINGS: SCH 40, POLYPROPYLENE, MECHANICAL JOINT, FLAME RETARDANT.
- 3. JOINTS: MECHANICAL JOINT COUPLING "ORION" RIONTITE CONSISTING OF STAINLESS STEEL OUTER BAND, WITH 5/16 INCH BOLTS, NUTS AND
- C. DOMESTIC COLD AND HOT WATER: ASTM B88, TYPE "L" HARD DRAWN COPPER TUBING. FITTINGS: ANSI/ASME BIG 22, WROUGHT COPPER
- D. GAS PIPING: ASTM A53, STEEL PIPING (INSIDE BUILDING) SCHEDULE 40 BLACK, ASME BIG3, MALLEABLE IRON FITTINGS. ASTM 120, GALVANIZED STEEL PIPING (EXTERIOR) SCHEDULE 40, WITH ASME BIG3, GALVANIZED FITTINGS.
- E. COMPRESSED AIR PIPING: ASTM B88, TYPE "K" HARD DRAWN WITH WROUGHT COPPER BRAZED FITTINGS.
- F. DE-IONIZED WATER: ASTM D-1785, POLYPROPYLENE PIPE AND FITTINGS (SCHEDULE 80). JOINTS: SOCKET WELDED OR BUTT WELDED.
- 22 PIPE HANGERS AND SUPPORT
- A. ADJUSTABLE RING HANGERS: "SECUR STRUT AND HANGER CO." FIG. 2,
- B. PIPE ISOLATION: "SECUR STRUT AND HANGER CO." FIG. 83, ISOLATOR COPPER TUBE.
- 23 PLUMBING ACCESSORIES
- A. GENERAL: PROVIDE AND INSTALL AT EACH SCIENCE CLASSROOM SINK CHROME PLATED ANGLE STOPS WITH RIGID SUPPLIES AND MECHANICALLY JOINED CHEMICAL WASTE PIPING.
- 2.4 INSULATION
- A. ALL PIPE AND TUBING INSULATION SHALL HAVE A FLAME SPREAD NOT TO EXCEED 25. THE SMOKE DENSITY SHALL BE NO GREATER THAN 50 WHEN TESTED IN ACCORDANCE WITH UBC STANDARD NO. 8-1 IN THE WAY INTENDED FOR USE.
- B. PIPING INSULATION SHALL BE AS FOLLOWS: DOMESTIC HOT WATER SYSTEM - OWENS CORNING FIBERGLASS ASJ/SSLII PIPE INSULATION, ASTM/ANSI C-547 MINERAL FIBER, PREFORMED PIPE INSULATION AND FITTING.
- C. PIPING INSULATION SHALL BE AS FOLLOWS: UNDERNEATH SINK-TRUEBRO INC. FULLY MOLDED P-TRAP ASSEMBLY, ANGLE VALVE AND SUPPLY TUBES INSULATION, ANSI A117.1.

- 25 PLUMBING EQUIPMENT
- 1. PORTABLE EXCHANGE SYSTEM: "CULLIGAN" TRI-BED, MIXED-BED DEIONIZED WATER TANKS WITH WATER QUALITY LIGHT (50,000 OHMS (2) REQUIRED) AND (1 MEGA-OHM) FOR THE 9-INCH DIA. TANKS.
- 2. RESISTIVITY METER: 'MYRON' 153-1, 0-20 MEGA-OHM WITH WALL TYPE MOUNTING PLATE.
- 3. EMERGENCY SAFETY SHOWER: 'GUARDIAN' GBF1643, BARRIER-FREE EMERGENCY SHOWER, HORIZONTAL/WALL MOUNTING, IDENTIFICATION SIGN.

# PART 3 INSTALLATION AND TESTING

- 3.1 INSTALLATION
- A. PIPING SHALL BE SUPPORTED AND BRACED PER THE SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS", OR R-0003, THE SUPERSTRUT SEISMIC RESTRAINT SYSTEM", OR R-0114, THE "B-LINE" SEISMIC RESTRAINT SYSTEM.
- B. CONTRACTOR SHALL VERIFY EXACT LOCATION AND DEPTH OF LATERALS BEFORE STARTING PROJECT. SHOULD IT BECOME NECESSARY TO RE-ROUTE LINES DUE TO CONDITIONS FOUND ON THE SITE OR IF INDICATED POINT OF CONNECTION CANNOT BE MADE TO THE LINES AS FOUND, THE CONTRACTOR SHALL, BEFORE CONTINUING, NOTIFY THE ARCHITECT BEFORE INSTALLING ANY WORK WHICH MAY BE AFFECTED.
- C. INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
- D. EXACT LOCATIONS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS.
- E. AIR CHAMBERS 24 INCHES LONG SHALL BE INSTALLED AT THE SUPPLY TO EACH PLUMBING FIXTURE OF TWO PIPE SIZES LARGER THAN THE FIXTURE SUPPLY UNLESS A WATER HAMMER ARRESTER IS PROVIDED FOR THE HEADER.
- F. ALL CUTTING OF EXISTING FLOORS SHALL BE BY MACHINE SAW CUTTING.
- G. ALL BURRED ENDS OF TUBING SHALL BE REAMED TO THE FULL BORE OF THE PIPE OR TUBE AND ALL CHIPS SHALL BE REMOVED (SEE 1994 CALIFORNIA PLUMBING CODE, SECTION 310.03.
- 32 TESTS
- A. DOMESTIC COLD AND HOT WATER SYSTEM: 125 PSI, UPC SECTION 318/b/6 OR SYSTEM WORKING PRESSURE.
- B. SANITARY, WASTE AND VENT SYSTEM: MINIMUM OF 10 FEET HEAD OF WATER UPC SECTION 318(b)3.
- C. STERILIZE THE DOMESTIC COLD AND HOT WATER LINES THAT SERVE THE VARIOUS PLUMBING FIXTURES AFTER WATER LINES HAVE BEEN FLUSHED THOROUGHLY, STERILIZE PER APPROVED FEDERAL AND/OR AWWA PROCEDURES STD C651-86

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BUILDING 400
LEGE DISTRICT CAMPUS SEA, CA 92007 8 0 0 C

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PLUMBING SPECIFICATIONS

T M A D Engineers, Inc. Mechanical and Electrical Consulting Engineers **Project Number** 

2100.012 TELEPHONE (858) 271-9808 FAX: (858) 271-9932 SUITE 200 SAN DIEGO, CA 92131 tmad@cts.com

DSA APPROVAL

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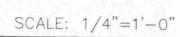
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PLUMBING DEMOLITION PLAN - BLDG. 400



# KEYNOTES

- 1) REMOVE EXISTING EMERGENCY EYE WASH STATION. REMOVE 2" WASTE AND CAP BELOW FLOOR REMOVE 1/2 "COLD WATER AND CAP ABOVE CEILING. CAP 11/2" VENT IN WALL.
- (2) DISCONNECT AND REMOVE EXISTING LAVATORY SINK FITTING, WASTE COLD AND HOT WATER AND CAP SERVICES BEHIND FINISHED WALL.
- DISCONNECT AND REMOVE EXISTING AIR AND GAS TURRET EQUIPPED WITH COCK AND SERRATED NOZZLE OUTLET. REMOVE SERVICES UNDERNEATH THE CABINETRY TO EXISTING SHUT-OFF VALVE AND CAP.
- (4) DISCONNECT AND REMOVE EXISTING HYDROCLEAN CARBON AND SEDIMENT FILTERS, TUBING AND SPIGOT.
- (5) EXISTING AIR AND GAS TURRETS EQUIPPED WITH COCK AND SERRATED NOZZLE OUTLET TO REMAIN
- (6) EXISTING EPOXY-RESIN SINK TO REMAIN.
- 7) REMOVE EXISTING 12"CW, 12"HW AND 12"VACUUM DOWN IN WALL AND TO BELOW FLOOR IN TRENCH, CAP SERVICES ABOVE CEILING.
- (8) DISCONNECT EXISTING 1/2"CW, 1/2"HW AND 1/2"VACUUM SERVICES FROM ISLAND SINK REFER TO RENOVATION DRAWING FOR RECONNECTION OF SERVICES.
- (9) EXISTING VACUUM, GAS AND AIR PIPING TO REMAIN.
- (10) REMOVE EXISTING LABORATORY SINK FITTING.

T M A D Engineers, Inc.

Mechanical and Electrical Consulting Engineers

tmad@cts.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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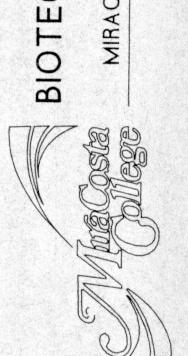
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Associates

REMODEL BUILDING 400 LEGE DISTRICT

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BUILDING 400 PLUMBING DEMOLITION

REVISIONS:

DSA REVISIONS 00/00/00

DATE: 4/10/2000

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CLASSROOM

PLUMBING RENOVATION PLAN - BLDG. 400

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

KEYNOTES

- 1) CONNECT 2 INCH WASTE TO EXISTING WASTE LINE AND ROUTE AS
- (2) CONNECT 1-1/2 INCH VENT TO EXISTING VENT LINE AND ROUTE AS INDICATED.
- (3) CONNECT 1-1/2 INCH COLD WATER TO EXISTING SERVICE AND ROUTE AS INDICATED.
- (4) CONNECT 3/4 INCH COLD WATER TO EXISTING SERVICE AND ROUTE AS INDICATED.
- (5) EXISTING ACID WASTE PIPING BELOW FLOOR
- (6) LOCATION OF EXISTING FLOOR SINK
- (7) EPOXY RESIN SINK WITH CENTRAL WATER DELIVERY (3-FAUCET) CAPABLE OF LOWERING BELOW COUNTERTOP AND INNER LIP ON SINK TO HOLD REMOVABLE SINK COVER BY OTHERS. PROVIDE AND INSTALL 'CHICAGO' 625-SLO PEDAL VALVES (TYP 3). NOTE: FAUCETS/SPIGOTS FOR DOMESTIC WATER AND
- DE-IONIZED WATER BY OTHERS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION FOR LAB STATIONS.
- (8) EXISTING PIPING ABOVE CEILING.
- (9) CONNECT 34" GAS PIPING TO EXISTING 14" GAS PIPING IN CEILING SPACE AND ROUTE AS INDICATED
- (10) MODIFY EXISTING SERVICES (WASTE, COLD AND HOT WATER) AS REQUIRED TO ACCOMMODATE INSTALLATION OF FUME HOOD WITH CUPSINK
- (11) PROVIDE AND INSTALL MIXED BED DEIONIZED
- (12) ROUTE GAS PIPING IN TRENCH BELOW FLOOR AS INDICATED.
- (13) 1/2 INCH GAS DOWN IN WALL TO BELOW FLOOR

LAB

NOT IN CONTRACT

- (14) PROVIDE 2 INCH WASTE, 1-1/2 INCH VENT AND 1/2 INCH COLD, HOT AND DEIONIZED WATER ROUGH-IN SERVICES FOR COUNTER MOUNTED ISLAND EPOXY RESIN SINK.
- 15) PROVIDE AND INSTALL RESISTIVITY MONITOR/CONTROLLER FOR DEIONIZED WATER ELECTRICAL REQUIREMENTS: 115 VAC, SINGLE PHASE.
- (16) PROVIDE AND INSTALL EMERGENCY SHOWER AND FLOOR DRAIN PULL DEVICE @ 48" MAX.
- (17) 1/2 INCH GAS UP FROM BELOW FLOOR IN CABINETRY.
- (18) PROVIDE AND INSTALL 'CHICAGO' 982 LABORATORY TURRET WITH (2) 909 HOSE COCKS.
- 19 LOCATION OF CUPSINK WITH DEIONIZED WATER, GAS AND VACUUM SERVICES FOR THE FUME HOOD.
- 20 LOCATION OF NEW ACCESSIBLE EPOXY RESIN SINK BY
- 1) PROVIDE AND INSTALL 'CHICAGO' 625-SLO AND 786-E3-TW WITH GN2BVB VACUUM BREAKER SPOUT, THIRD WATER CONNECTION FOR USE IN CONJUNCTION WITH FOOT PEDAL
- (22) MODIFY EXISTING SERVICES (COLD AND HOT WATER) AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SINK FITTING.
- 23) PROVIDE AND INSTALL 'CHICAGO' 869-B LABORATORY FITTING FOR DEIONIZED WATER PROVIDE 2" MIN LEVER HANDLE.
- 24) PROVIDE AND INSTALL 'CHICAGO' 625-5LO AND 900-AGN2BVB-ET VACUUM BREAKER SPOUT AND FOOT PEDAL VALVE.
- 25) PROVIDE AND INSTALL 'CHICAGO' 186-GN2BVB-ET LABORATORY FITTING.
- (26) EXISTING EPOXY-RESIN SINK
- 27 EXISTING AIR AND GAS TURRENTS WITH COCK AND NOZZLE.

T M A D Engineers, Inc. Project Number 2100.012

Mechanical and Electrical Consulting Engineers

tmad@cts.com

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DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102107 ACMR FLS O SS

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BUILDING 400 PLUMBING RENOVATION PLAN

DSA REVISIONS 00/00/00

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# SYMBOLS

- LUMINAIRE; POINT SOURCE, RECESSED ROUND.
- DUPLEX RECEPTACLE OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- 2 DUPLEX RECEPTACLE OUTLETS (4 PLEX) IN 4" SQ. BOX, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- SPECIAL RECEPTACLE, SUBSCRIPT INDICATES SIZE AND TYPE, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- CONDUIT AND WIRE RUN UNDERFLOOR OR UNDERGROUND.
- --- CONDUIT AND WIRE RUN CONCEALED.
- FLEXIBLE CONDUIT.
- SLASH MARKS INDICATE NUMBER OF #12 AWG WIRES HI ( NO SLASH MARKS INDICATES 2 #12 AWG WIRES, U.O.N. CHEVRON MARKS INDICATES NUMBER OF #10 AWG WIRES, U.O.N.
- JUNCTION BOX WITH COVER
- JUNCTION BOX PROVIDED BY OTHERS
- FIRE ALARM TERMINAL CABINET.
- FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER.



3/4" DETAIL REFERENCE SYMBOL FOR DETAIL TITLES. "A" IS DETAIL DESIGNATION, "E-I" E-1 E-2 INDICATES SHEET WHERE DETAIL IS REFERENCED, "E-2" INDICATES SHEET WHERE DETAIL IS DRAWN.

- DATA OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.
- COMBINATION TELEPHONE/DATA OUTLET, FLUSH WALL MOUNTED AT +18" ABOVE FINISHED FLOOR U.O.N.

# ABBREVIATIONS

- ABOVE FINISHED FLOOR
- BREAKER CIRCUIT BREAKER
- CONDUIT
- C.O. CONDUIT ONLY
- CONDUCTOR
- CU COPPER
- FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET
- FIN FINISH
- LIGHTING LTG
- MOUNTING
- PNL PANEL
- PWR POWER
- RIGID GALVANIZED STEEL
- SHT SHEET
- ST SHUNT TRIP
- SW SWITCH TELEPHONE
- TYP TYPICAL
- UNDERGROUND
- WEATHERPROOF
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED

# FIRE ALARM SYSTEM GENERAL NOTES

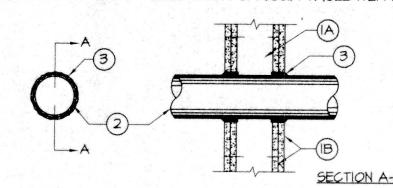
- 1. THE FIRE ALARM SYSTEM AND ALL COMPONENTS SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE.
- UPON COMPLETION OF THE MODIFICATIONS TO THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE AFFECTED PORTION OF THE FIRE ALARM SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
- A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
- 4. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
- 5. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE STATE FIRE MARSHAL
- 6. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
- 7. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE STATE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.
- 8. MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHALL LISTING NUMBERS FOR EACH NEW COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY DSA FIRE MARSHAL.
- ALL NEW COMPONENTS SHALL BE SUPPLIED BY SIMPLEX TO 9. MATCH EXISTING.
- ALL MODIFICATIONS TO THE EXISTING FIRE ALARM SYSTEM 10. SHALL BE MADE BY SIMPLEX AND NO OTHER.
- REFER TO SIMPLEX FIRE ALARM DRAWINGS FOR FIRE ALARM SYSTEM MODIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE THE SERVICES OF SIMPLEX FOR ALL MODIFICATIONS TO THE FIRE ALARM SYSTEM.

# FIRE PENETRATIONS NOTE

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS, WALLS OR CEILING SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO U.L. (UNDERWRITERS LABORATORY) LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS, AND SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL RACEWAY PENETRATIONS AND ELECTRICAL OUTLET BOXES RECESSED IN OPPOSITE SIDES OF RATED WALLS WITH LESS THAN A 24" HORIZONTAL OFFSET. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING, TO THE UNIVERSITY'S REPRESENTATIVE. THESE DRAWINGS SHALL BE AVAILABLE TO THE FIRE MARSHAL. THE SHOP DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. SEE TYPICAL FIRE PENETRATION DETAIL BELOW.

# PENETRATION SEAL AT RATED PARTITIONS:

SYSTEM NO. WLIOOI F RATINGS - 1, 2, 3 AND 4 HR. (SEE ITEMS 2 AND 3) T RATINGS - 0, 1, 2, 3 AND 4 HR. (SEE ITEM 3) L RATING AT AMBIENT - LESS THAN I CFM/SQ. FT. (SEE ITEM 3) L RATING AT 400 F - LESS THAN I CFM/SQ. FT. (SEE ITEM 3)



- . WALL ASSEMBLY-THE 1, 2, 3, OR 4 HR FIRE-RATED GYPSUM WALLBOARD/ STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION
- A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACE 16 IN OC WITH NOM 2 B Y 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
- B. WALLBOARD, GYPSUM\*-NOM 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIAM. OF OPENING IS 13-1/2 IN.
- 2. PIPE OR CONDUIT-NOM 12 IN. DIA (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIA (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIA (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM I IN. DIA (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 H. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN, DIA MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
- 3. FILL, VOID, OR CAVITY MATERIAL\* CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIA BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE	ANNULAR	F	T	
OR CONDUIT	SPACE	RATING,	RATING,	
DIA, INCHES	INCHES	HOUR	HOUR	
1	O TO 3/16	1 OR 2	0+, 1 OR 2	
I	1/4 TO 1/2	3 OR 4	3 OR 4	
4	O TO 1/4	OR 2	0	
4	O TO 1-1/2#	OR 2	0	
6	1/4 TO 1/2	3 OR 4	0	
12	3/16 TO 3/8	1002	0	

+WHEN COPPER PIPE IS USED, T RATING IS O H. #O TO I-1/2 IN. ANNULAR SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED.

MINNESOTA MINING & MFG. CO.-TYPES CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+. (NOTE: L RATINGS APPLY ONLY WHEN TYPE CP-25 WB CAULK IS USED.) \*BEARING THE UL CLASSIFICATION MARKING

# FIRE PENETRATION DETAIL NO SCALE

# SHEET INDEX

- ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES, SHEET INDEX
- E2 ELECTRICAL POWER AND SIGNAL PLAN BUILDING 400
  - ELECTRICAL LIGHTING PLAN BUILDING 400
  - FAI TITLE SHEET FIRE ALARM WIRING DIAGRAM
  - FA2 FLOOR PLANS AND FIRE ALARM WIRING DIAGRAM

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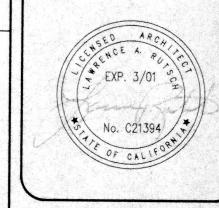
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GENERAL NOTES



ELECTRICAL SYMBOLS, ABBREVIATIONS. GENERAL NOTES SHEET INDEX

**REVISIONS:** 

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IDENTIFICATION STAMP DIV. OF THE STATE ARCH OFFICE OF REGULATION

3-17-00 9808

VAN BUUREN KIMPER ENGINEERING

619.291.9980 fax 291.6389 DWGS: caddept@vbke.com MAIL: vbke@vbke.com 2000019-00 V.B.K. JOB NO.

# ELECTRICAL POWER & SIGNAL PLAN - BUILDING 400 SCALE: 1/8"=1'-0"



PANEL:					, 3 <del>0</del> 4\				-			
"LB2"		-		NEL "LE				M			MTG: S	URFAC
OC.: MECH. RM. 40	8	N	IIN.	A.I.C.:	10,000	NEU	TRA	L: 1	00	0%	NEMA:	1
ITEM/LOCATION	*	BKR/	P #	ΦА	ΦВ	ΦС	#	BKR/P	*	ITEM/	LOCATIO	NC
LAB 402 COUNTER RECEPTACLE	· R	20/1	1	180 360		on rock	2		R		D2 BENCH	
AB 402 COUNTER	. R		3	300	180		4		R	LAB 4	D2 BENCH	<del>.</del>
RECEPTACLE LAB 402 COUNTER	. R		5		360	180		-+-+	R	RÉCÉP MOTOR	IZED	
RECEPTACLE LAB 402 BENCH			7	360		180	6		+	LAB 4	R 02 BENCH	1
RÉCEPTACLE LAB 402 BENCH	·   R		9	360	360		8	44	R	RÉCEP		
RECEPTACLE	· R		J		360		10		R	RÉCEP	TACLE	
LAB 402 BENCH RECEPTACLE	· R		11			360	12		R	RÉCÉP		1
SALT WATER PUMP			13	630 360			14		R		DA DATA	
AB 204 AUTOCLAVE			15		100		16			Charles the Assessment of States and	D2 LCD	•
AB 402-F1			17		100	1656	18		1		04 BENCH	1
AB 402 TUME HOOD	.		19	460			20		+	LAB 40	)4	
AB 402			21		460				+	LAB 40		
FUME HOOD AB 402			23				22		+	"FACP"	ERATOR	
DARE HOOD			25				24		-			
	-1-		/				26		1			
			27				28			• •	* * * *	***
			29			***************************************	30		-			
			31				32		-	: •		
			33				34					
AB 404 AUTOCLAVE	.	20 /	35			1344			+			
		1/2	37	1344		teni ke k	36		+			
AB 402		15 /	39		1000		38	70	+	LAB 40	)2	***************************************
DRYING OVEN SLAND #2		-	41		2800	1000	40	30	+	CÉNTER	RIFUGE	* *
		/ 2				2800	42	/ 2		- 1		
(L)ONG-CONTINUOUS VA	0		ф	CONN. VA.	LCL V	A. CC	NN. AI	MPS PAN	EL.	CONNECTE	D KVA	17.3
(N)ON-CONTINUOUS VA  DEMANDABLE (R)ECEPTACLE	136		A	4054	405		33.8			DEMAND A		48.0
DEMANDABLE (R)ECEPTACLE	360	00	В	5720	572	U	47.7	PAN	EL	CONNECTE	D AMPS	48.0

# SHEET NOTES

- (1) PROVIDE DUPLEX OUTLET MOUNTED ABOVE EXISTING COUNTERTOP.
- 2 PROVIDE DUPLEX OUTLET MOUNTED INSIDE BENCH.
- PROVIDE DUPLEX OUTLET MOUNTED IN SURFACE MOUNTED MONUMENT, SQUARE-D #DSMHA-DMFPBA OR APPROVED
- (4) PROVIDE IS AMP 250 VOLT 6-20R RECEPTACLE, HUBBELL #5469-C OR APPROVED EQUAL MOUNTED IN ISLAND BENCH.
- (5) PROVIDE 30 AMP 250 VOLT 6-30R RECEPTACLE HUBBELL #9330 OR APPROVED EQUAL
- (6) PROVIDE 120 VOLT CONTROL CIRCUIT WITH CONNECTION TO AUTOCLAVE.
- 7 PROVIDE 100 AMP, 3-POLE, 240 VOLT CIRCUIT BREAKER TO MATCH EXISTING AT EXISTING PANEL "LBI".
- 8 PROVIDE 1-1/2"C, 4#2, 1#6 GND THWN CU. ELECTRICAL SUBFEED TO NEW PANEL "LB2".
- 9 PROVIDE NEW ELECTRICAL PANEL "LB2". FOR DETAILS SEE ELECTRICAL PANEL SCHEDULE ON THIS SHEET.
- (O) PROVIDE DATA NETWORKING "IDF", 19" WALL MOUNTED CABINET RACK TECHNOLOGIES #WC2428 ADJACENT TO EXISTING OPTIC TERMINATION JUNCTION BOX COMPLETE WITH ONE (1) 19" CANTILEVER SHELF AT BOTTOM, RACK TECHNOLOGIES #9023.
- PROVIDE ONE (1) AMP 24-PORT MODULAR JACK TIIO BLOCK PATCH PANEL AMP #557860-1.
- (2) PROVIDE DOUBLE DUPLEX SURGE PROTECTED RECEPTACLE, HUBBELL #536015.
- (3) EXISTING DATA NETWORKING SHELF AND EQUIPMENT TO BE REMOVED BY OWNER. EXISTING DATA NETWORKING FIBER OPTIC AND CATEGORY FIVE COPPER CABLE AND PATCH PANEL TO BE INSTALLED IN "IDF" CABINET BY OWNER. VERIFY ALL REQUIREMENTS AND COORDINATE INSTALLATION WITH THE OWNER'S REPRESENTATIVE.

- PROVIDE COMBINATION VOICE/DATA NETWORKING OUTLET LOCATED ABOVE COUNTER TOP COMPLETE WITH I" CONDUIT ONE (1) 4-2 PAIR CATEGORY SIX CABLE. EXTEND CONDUIT AND CABLE TO EXISTING TELEPHONE TERMINAL CABINET "TTC", TERMINATE CABLE AT OUTLET AND TERMINAL CABINET CONNECTION BLOCKS.
- PROVIDE I" CONDUIT WITH ONE (I) 4-2 PAIR CATEGORY SIX CABLE, EXTEND CONDUIT AND CABLE TO WALL HUNG DATA NETWORKING "IDF", ROOM 404. TERMINATE CABLE AT OUTLET AND "IDF" 110 PATCH PANEL
- PROVIDE DATA NETWORKING OUTLET MOUNTED INSIDE BENCH WITH ONE (I) I" CONDUIT, ONE (I) 4-2PAIR CATEGORY SIX CABLE. EXTEND CONDUIT TO WALL HUNG DATA NETWORKING "IDF", ROOM 404. TERMINATE CABLE AT OUTLET AND "IDF" IIO PATCH PANEL
- PROVIDE ELECTRICAL CONNECTION TO CIRCULATION PUMP.
- PROVIDE ELECTRICAL CONNECTION TO AIR COMPRESSOR.
- PROVIDE ELECTRICAL CONNECTION TO LCD PROJECTOR.
- UTILITY TRENCH PROVIDED BY OTHERS.
- PROVIDE DATA NETWORKING OUTLET MOUNTED AT CEILING WITH ONE (I) I" CONDUIT, ONE (I) 4-2 PAIR CATEGORY SIX CABLE. EXTEND CONDUIT TO WALL HUNG DATA NETWORKING "IDF" ROOM 404. TERMINATE CABLE AT OUTLET AND "IDF" 110 PATCH PANEL.
- PROVIDE ONE (1) 15 AMP 3 POLE 600 VOLT CIRCUIT BREAKER CIRCUITS 37,39,41, ONE (1) 35 AMP 3 POLE 600 VOLT CIRCUIT BREAKER CIRCUITS 13,15,17, TO MATCH EXISTING, FOR CONNECTION TO MECHANICAL EQUIPMENT
- PROVIDE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT.
- PROVIDE ROOF MOUNTED DUPLEX RECEPTACLE
- DISCONNECT, REMOVE PORTION OF EXISTING SURFACE MOUNTED RACEWAY. PROVIDE JUNCTION BOX AND RECONNECTION OF REMAINING SURFACE RACEWAY
- PROVIDE 600 VOLT 3 PHASE SIZE "I" STARTER WITH ELECTRICAL CONNECTION TO MECHANICAL EXHAUST FAN.
- ELECTRICAL COMMEDITOR TO THE PERMEX PROVIDE SELF ILLUMINATED EXIT LIGHT, PERMEX #P-160-R-20 OR APPROVED EQUAL BY ISOLITE OR BRAND



# GENERAL NOTES

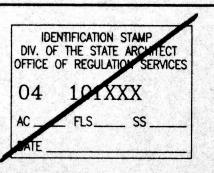
- VERIFY LOCATION OF ALL DEVICES PRIOR TO ROUGH-IN.
- COORDINATE INSTALLATION OF ELECTRICAL AND DATA NETWORKING SERVICES TO LAB 402 WORK BENCHES WITH THE SERVICES OF OTHER SYSTEMS.

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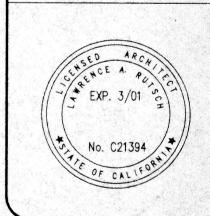
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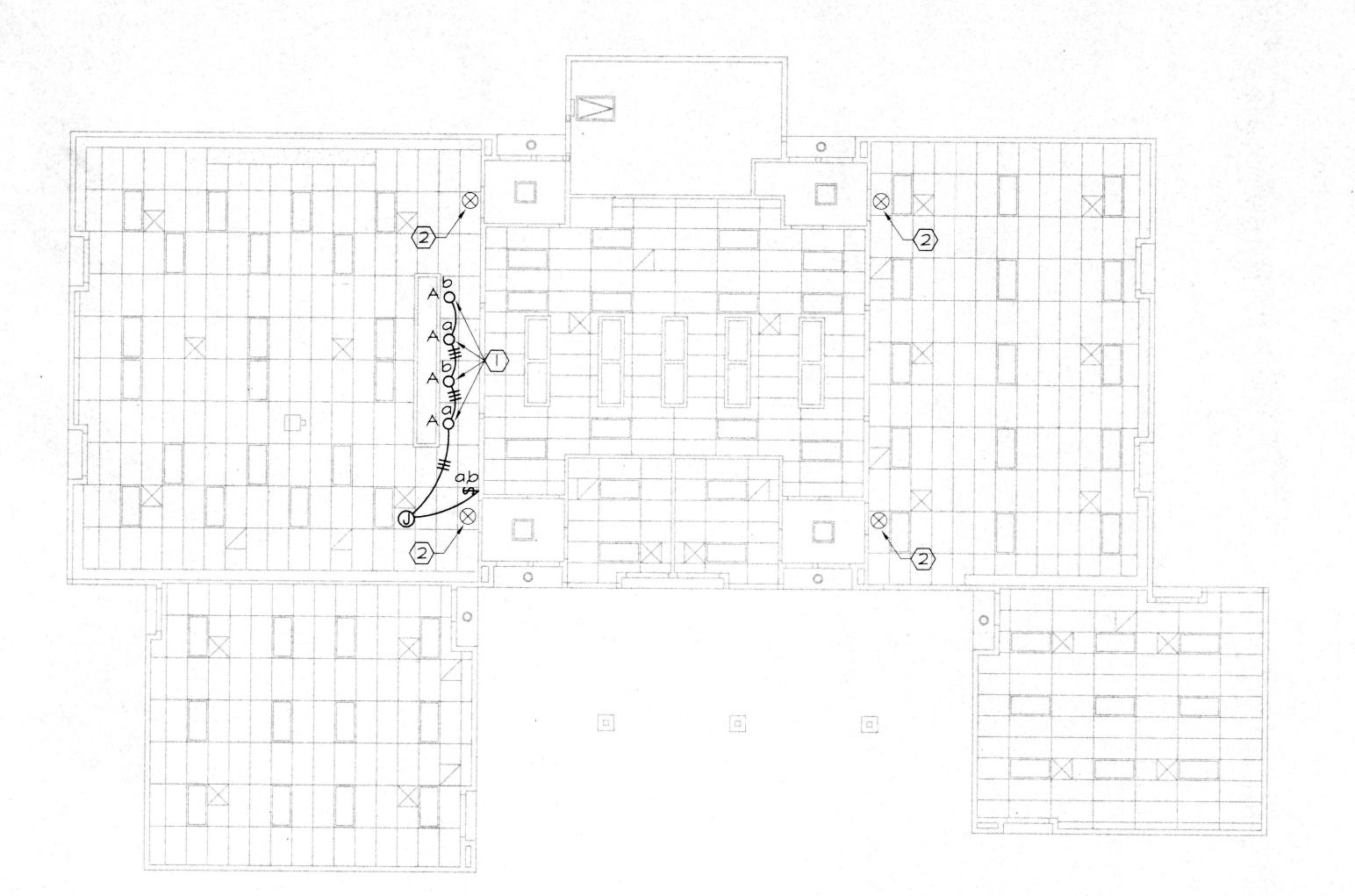


ELECTRICAL POWER & SIGNAL BUILDING 400

↑ PSA CORRECTIONS 8-9-00

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ELECTRICAL LIGHTING PLAN - BUILDING 400 SCALE: 1/8"=1"-0"

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VAN BUUREN KIMPER ENGINEERING

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V.B.K. JOB NO.

		LU	IMINAIRE SCHED	ULE			
	MTG			LAMP	BALLAST	INPUT	REC DEPTH
TYPE	МН	LUMINAIRE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	#/TYPE WATTS CT/CRI CODE	#/TYPE PF BF CIRCUIT	WATTS VOLTS VA	REF
Α	REC	LOW PROFILE COMPACT FLUORESCENT TWO (2) 18W FLUORESCENT LAMPS, 277V BALLEST, SPECULAR CLEAR REFLECTO	LIGHTOLIER LYTECASTER #1102T18F2-1113TCL-277 OR APPROVED EQUAL BY PRESCOLITE OR COLUMBIA	2/FL 18WT4 3500°K 85CRI	1/EL .95PF .92BF	50 277 63	
ин:	MOUNTING FLOOR TO TO BOTTO	D J-BOX CENTER IF WALL,	#:NUMBER OF LAMPS/LUMINAIRE; TYPE:FLuoRescent, HPS, INCandes INDuction, LPS, Metal Halide; WATTS: LAMPS WATTS; CT: COLOR IN DEGREES KELVIN; CRI: MINIMUN COLOR RENDERING INDEX; CODE: ORDERING CODE OR OTHER INFO.	TEMP.	T: #:NUMBER OF TYPE: ELectron PF: MINIMUM F BF: MINIMUM E CIRCUIT: CWA, SERIES, TRIGGE	nic, HYBrid, N POWER FACTO BALLAST FACT INStant, PAR	AAGnetic; R; OR;

# SHEET NOTES

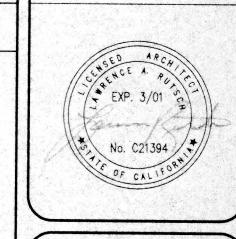
- DISCONNECT AND REMOVE EXISTING LIGHT TRACK AND LIGHTING FIXTURES. PROVIDE FOUR (4) LOW PROFILE HOUSING COMPACT FLUORESCENT LIGHTING FIXTURES WITH CONNECTION TO EXISTING A.D. LIGHTING SWITCHES, FOR DETAILS SEE LUMINAIRE SCHEDULE THIS SHEET.
- 2 EXIT LIGHT (EXISTING).

SSOCIATES





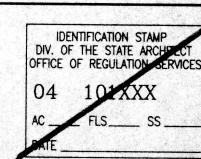
1. ALL EXISTING LIGHTING TO REMAIN IN COMPLETE CORRECT OPPERATING CONDITION.

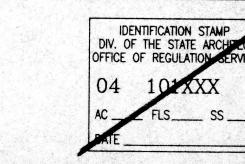


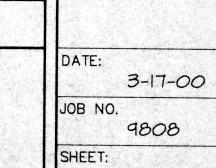
ELECTRICAL LIGHTING PLAN BUILDING 400



DSA APPROVAL







REVISIONS:

9808 E3

# Simplex Time Recorder Co.

FIRE ALARM WIRING DIAGRAM MIRA COSTA COLLEGE BUILDING 400 BIOTECH

# TABLE OF CONTENTS

1 TITLE SHEET FIRE ALARM WIRING DIAGRAM 2 | FLOOR PLAN FIRE ALARM WIRING DIAGRAM

# SYMBOL LIST

SYM	MODEL NO.	DESCRIPTION .	C.S.F.M. LISTING
FACP	4002	FIRE ALARM CONTROL PANEL CAY	7165-0026:177
[FATC]	BY OTHERS	FIRE ALARM TERMINAL CABINET	NA
[4009]	4009-9001	NAC POWER EXTENDER	7300-0026: 214
<b>SD</b>	4098-9788	SSD SENSOR BASE	7300-0026: 222
69	4098-9601	SSD PHOTOELECTRIC SMOKE SENSOR	7272-0026: 219
LE	2099-9754	MANUAL PULL STATION, SINGLE ACTION	7150-0026:175
	4904-9135	VISUAL ONLY STROBE 30cd, VERTICAL MOUNT	7125-0026:198
F 15	4903-9236	AUDIBLE/VISUAL HORN/STROBE 15/75cd, HORIZ. MOUNT	7125-0026: 202
		AUDIBLE/VISUAL HORN/STROBE 110cd, HORIZ. MOUNT	7125-0026: 202
(H) WP	MT-12/24-R	WHEELOCK WEATHERPROOF HORN	7135-0785:118
~	~~~		m

EMERGENCY POWER BATTERY CALCULATIONS 4009 NAC POWER EXTENDER - BUILDING 400

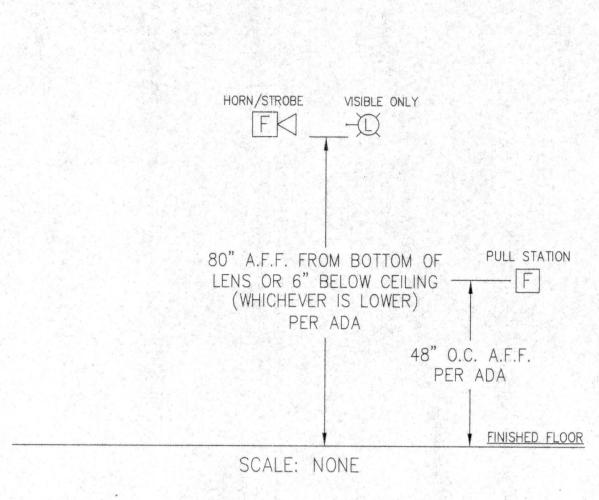
STANDBI	CURRENT REQUI	IRED	ALARM	CURRENT REQU	IRED
QTY.	CURRENT	TOTAL	QTY.	CURRENT	TOTAL
1	0.067	0.067	1	0.103	0.10
1	0.037	0.037	1	0.037	0.03
1	0.000	0.000	1	0.236	0.23
4	0.000	0.000	4	0.111	0.44
1	0.000	0.000	1	0.141	0.1
1	0.000	0.000	1	0.125	0.12
2	0.000	0.000	2	0.040	0.08
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	. 0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
0	0.000	0.000	0	0.000	0.00
TOTA	L STANDBY	0.104	TC	TAL ALARM	1.16
	1 1 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0.037 1 0.000 4 0.000 1 0.000 1 0.000 2 0.000 0 0.0000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.0000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.0000	1 0.037 0.037 1 0.000 0.000 4 0.000 0.000 1 0.000 0.000 1 0.000 0.000 2 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000 0 0.000 0.000	1         0.037         0.037         1           1         0.000         0.000         1           4         0.000         0.000         4           1         0.000         0.000         1           1         0.000         0.000         2           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000         0           0         0.000         0.000	1         0.037         0.037         1         0.037           1         0.000         0.000         1         0.236           4         0.000         0.000         4         0.111           1         0.000         0.000         1         0.141           1         0.000         0.000         1         0.125           2         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0         0.000         0.000         0         0.000           0

1 = 1 AMP RATED AMP./HOUR

# SCOPE OF WORK

. ADD TO EXISTING MANUAL FIRE ALARM SYSTEM IN AREAS OF REMODEL.

# MOUNTING REQUIREMENTS



WORST CASE LINE LOSS VOLTAGE CALCULATIONS

# FIRE ALARM WIRING NOTES

Α	2 #14 THHN	RED/BLACK	AUDIBLE
TA	2 #14 THHN	RED/BLACK	AUDIBLE TRIGGER CIRCUIT
IH	2 #12 XHHW (UNDERGROUND) — —	- RED/BLACK	AUDIBLE TRIGGER CIRCUIT
TV	2 #14 THHN	BLUE/WHITE	VISIBLE TRIGGER CIRCUIT
1 V	2 #12 XHHW (UNDERGROUND) — —	- BLUE/WHITE	VISIBLE TRIGGER CIRCUIT
Χ	2 #14 THHN	AS NOTED:	* INITIATING/OPERATING
		YELLOW/PURPLE	SMOKE/DUCT DETECTOR
		PINK/GRAY	PULL STATIONS
V	2 #12 THHN	BLUE/WHITE	VISUAL

# APPLICABLE CODES

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH: TITLE 24, PART 2 C.C.R.: 1998 C.B.C. (1997 U.B.C. W/CALIFORNIA AMENDMENTS TITLE 24, PART 3 C.C.R.: 1998 C.E.C. (1996 N.E.C. W/CALIFORNIA AMENDMENTS), TITLE 24, PART 4 C.C.R.: 1998 C.M.C. (1997 U.M.C. W/CALIFORNIA AMENDMENTS TITLE 24, PART 5 C.C.R.: 1998 C.P.C. (1997 U.P.C. W/CALIFORNIA AMENDMENTS) TITLE 24, PART 9 C.C.R.: 1998 C.F.C. (1997 U.F.C. W/CALIFORNIA AMENDMENTS) NFPA 72, 1996 EDITION WITH CALIFORNIA AMENDMENTS.

ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED WITHOUT VIOLATING CODE AND REGULATION REQUIREMENTS, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.

# FIRE MARSHAL NOTES

- THE INSTALLATION OF ALL FIRE ALARM WIRING AND EQUIPMENT SHALL BE'IN ACCORDANCE WITH C.E.C., ARTICLE 760, FIRE PROTECTIVE SIGNALING SYSTEMS, NEC.
- 2. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL OF 15 db's OVER THE AMBIENT NOISE LEVEL.
- 3. ALL CONDUIT SIZES SHALL BE IN ACCORDANCE WITH C.E.C., CHAPTER 9 TABLES AND EXAMPLES ON CONDUIT FILLS.
- 4. ALL WIRE SHALL BE RUN IN CONDUIT, MINIMUM 3/4". FOR PROPER CONDUIT SIZE AND INSTALLATION CONTACT THE SIMPLEX INSTALLATION DEPARTMENT.
- . UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM. A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED

IN THE PRESENCE OF THE ENFORCING AGENCY.

ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH U.L. ASSEMBLY WL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL THIS SHEET.

# = TOTAL CURRENT (AMPERES) (REQUIRED SUM OF ALL DEVICES) FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE OF SUPPLY TO THE END OF THE LOAD. 21.6 = RESISTIVITY OF CONDUCTOR • 10.8 OHMS PER L.M. (10.8 x 2 = 21.6 FOR TWICE THE LENGTH) C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILLS. ENTER DISTANCE IN FEET CIRCULAR MILS USING AWG # 14 ENTER WIRE USING AWG CIRCULAR MILS USING AWG # 18 $1 \times FEET \times 21.6 = (VOLTAGE DROP)$ THUS (VOLTAGE DROP) / 24 (VOLTS) = (A), THUS (A) x 100 (PERCENT) = PERCENT OF VOLTAGE DROP

ALARM

TROUBLE

TROUBLE

SUPERVISORY

SUPERVISORY

ANNUNCIATE AT

FIRE CONTROL PANEL

(ALARM & TROUBLE)

ACTIVATE AUDIBLE/ VISUAL ALARM SIGNAL

DEVICES.

NOTIFY LOCAL FIRE DEPARTMENT DR CENTRAL STATION VIA SUPERVISED SIGNAL

SEQUENCE OF OPERATIONS - MATRIX

DETECTORS

MANUAL PULL SMOKE/HEAT/DUCT SPRINKLER WATER SPRINKLER

FLOW SWITCH

# THROUGH-PENETRATION FIRESTOP SYSTEMS (XHEZ) SECTION A-A Wall assembly - the 1,2,3 or 4 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 series wall or partition designs in the U.L. Fire Resistance Directory and shall include the following contruction features: A. Studs—Wall framing may consist of either wood studs (max 2 hr fire rated assembiles) or steel channel studs. Wood studs to consist of nominal 2 by 4 in. lumber spaced 16 in. OC with nominal 2 by 4 in. lumber end plates and cross broces. Steel studs to be minimum 3-5/8 in. wide by 1-3/8 in. deep channels spaced max. 24 in. O.C.

THROUGH PENETRATION FIRE-STOP

B. Wallboard, Gypsum\* -nom 1/2 or 5/8 in thick, 4 ft. wide with square or topered edges. The gypsum wollboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual USOO or U400 Series Design in the U.L. Fire Resistance Directors. Maximum diameter of opening is 13—1/2 in.

2. Pipe or Conduit—Nom 12 in. dia. (or smaller) Schedule 10 (or heavier) steel pipe, nom.6 in. dia. (or smaller) steel conduit, nom. 4 in. dia. (or smaller) steel Electrical Metallic Tubing or Type L. (or heavier) copper tubing or nom 1 in. dia. (or smaller) flexible steel conduit: When copper pipe or flexible steel conduit is used, max F Rating of firestop syetem (Item 3) is 2 hr. Steel pipes or conduits larger than nom 4 in. dia. may only be used in walls constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.

3. Fill, Void or Cavity Material\* — Caulk\*\* — Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min. 1/4 in. dia. bead of caulk applied to perimeter of pipe or conduit at its egrees from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F rating of the firestop system is dependent upon the hourly fire rating of wall assembly in which it is installed as shown in the following table. The hourly if rating of the fire stop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

\* Bearing the UL Classification Marking. \*\*Mining & Mfg. co. - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB4

FOR INFORMATION ONLY (CONDUIT SUPPLIED BY ELECTRICAL CONTRACTOR)

BLDG, POWER

X

TAMPER SW

# PROJECT BUILDING DATA

V - NON RATED FULLY SPRINKLERED NUMBER OF STORIES:

BUILDING SQUARE FEET: 5,900 SQR FEET

# **APPROVALS**



SHEET 1 OF 2

SIMPLEX 08-09-00 PER DSA COMMENTS

REVISION NOTES A=DEVICE ADD C=DEVICE CHANGE D=DEVICE DELETED R=DEVICE RELOCATED

