CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

TENGLISH CADD

PA / PM: DRAWN BY: JOB NO.: | SDG11-6080-0 SHEET

VERIFY THAT ALL DOORS AND DOOR HARDWARE MEET THE REQUIREMENTS OF ALL

GOVERNING CODES & STANDARDS. NOTIFY THE ARCHITECT IMMEDIATELY IN CASE 2. FIELD MEASURE, AS REQUIRED, ALL DOORS PRIOR TO FABRICATION.

DOOR NOTES

PROVIDE A SIGN ON OR NEAR THE MAIN EXIT DOOR READING, "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS".

4. LATCHING AND LOCKING DOORS THAT ARE HAND OPERATED SHALL BE OPERABLE WITH A SINGLE EFFORT WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE (LEVER OR PUSH TYPE). VERIFY CONDITION AT EXISTING DOORS.

MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING PER THE REQUIREMENTS OF THE ADA: INTERIOR DOORS – 5 POUNDS - EXTERIOR DOORS - 5 POUNDS

. RATED DOORS SHALL COMPLY WITH REQUIREMENTS OF ALL GOVERNING CODES &

7. ALL HARDWARE TO BE LEVER-TYPE PER STATE OF ALL GOVERNING CODES & STANDARDS AND THE ADA.

8. OPENING HARDWARE IS TO BE CENTERED BETWEEN 30" AND 44" ABOVE FINISH

FLOOR. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND MATCH NEW. 9. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.

10. PROVIDE WEATHER SEALS ON ALL EXTERIOR DOORS PER ANSI STANDARDS. 11. CONTRACTOR IS RESPONSIBLE TO COORDINATE & VERIFY ALL DOOR FRAME THROAT THICKNESS' FOR EACH LOCATION.

12. ALL DOOR FRAMES TO BE FACTORY FINISHED.

FIRE DOORS — 15 POUNDS

13. ALL DOOR STOPS TO HAVE 2x6 BACKING IN THE WALL BEHIND.

14. MAXIMUM UNDERCUT OF ALL DOORS NOT IN A RATED CORRIDOR SHALL NOT EXCEED 1/2" ABOVE FINISH FLOOR SURFACE.

15. CONTRACTOR SHALL REFINISH ANY BLEMISHED DOOR OR REPLACE SAID DOOR IF NOT ABLE TO REFINISH TO "AS NEW" CONDITION.

DEMOLITION NOTES

DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA SUPPLIED BY THE OWNER TO THE ARCHITECT. THE ARCHITECT MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, FOR THE ACCURACY OF THE COMPLETENESS OF THE EXISTING INFORMATION RECORDED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE IN THE COURSE OF THE DEMOLITION WORK.

VERIFY LOCATIONS OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL UTILITIES. LOCATE AND PROTECT UTILITIES TO REMAIN. DISCONNECT, REMOVE BACK TO NEAREST JUNCTION BOX OR PANEL, AS REQUIRED, AND CAP DESIGNATED UTILITIES WITHIN THE DEMOLITION AREA. REFER TO THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFO.

ALL EXISTING BUILDING UTILITIES SHALL REMAIN IN OPERATION DURING CONSTRUCTION PROVIDE REPOLITING OF LITHLITIES SERVING ADJACENT AREAS THAT ARE TO MAINTAIN UNINTERRUPTED SERVICE. ANY TEMPORARY SUSPENSION OF SERVICE SHALL BE COORDINATED AND APPROVED BY THE FACILITY MANAGER, NOT LESS THAN 24 HOURS IN ADVANCE.

4. THE DEMOLITION PLAN KEYNOTES ARE DIAGRAMMATIC AND GENERAL IN NATURE. THE INTENT IS TO ILLUSTRATE THE COMPLETE DEMOLITION OF THE SPACES INDICATED UNLESS NOTED OTHERWISE. FIELD VERIFICATION OF EXISTING CONDITIONS AND SPECIFIC QUANTITIES IS THE RESPONSIBILITY OF THE

REMOVAL AND DISPOSAL OF DEMOLITION DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY THE HAULING ROUTE THROUGH THE BUILDING, THE DEMOLITION STAGING AREA, AND THE LOCATION OF THE DUMPSTERS WITH THE OWNER PRIOR TO THE START OF DEMOLITION. DISPOSAL OF RUBBISH SHALL BE DONE IN A LEGAL MANNER.

6. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY DEMOLISHED ITEM. VERIFY ITEMS TO BE SALVAGED WITH THE OWNER PRIOR TO THE START OF DEMOLITION. REMOVE, PROTECT, CLEAN, REPAIR FOR REUSE AND TURN OVER SUCH ITEMS AS DIRECTED BY THE OWNER.

IN ORDER TO INSTALL SOME OF THE NEW WORK (INCLUDING, BUT NOT LIMITED TO MECHANICAL, PLUMBING OR ELECTRICAL) IT WILL BE NECESSARY FOR THE CONTRACTOR AND HIS SUBCONTRACTORS TO REMOVE AND REPLACE (OR REFINISH) EXISTING WALLS, FLOORS, OR CEILING IN THE AREAS OF THE BUILDING NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL INCLUDE ALL RELATED COSTS IN HIS BASE BID, WHETHER SHOWN ON THESE PLANS OR NOT.

PROTECT ADJACENT SPACES NOT SCHEDULED FOR DEMOLITION. PATCH AND REPAIR DAMAGED FINISHES, ITEMS AND FIXTURES TO REMAIN AND/OR REPLACE IN KIND TO MATCH EXISTING FROM DAMAGE DURING THE PROGRESS OF THE WORK. PROVIDE TEMPORARY SAFETY BARRIERS REQUIRED BY CODE AND AS INDICATED TO INSURE PUBLIC SAFETY AND TO ALLOW BUILDING OCCUPANCY. CONTRACTOR TO SUBMIT FOR APPROVAL, BARRIER LOCATIONS, AND METHOD OF

CONSTRUCTION TO THE ARCHITECT PRIOR TO INSTALLATION. 9. NO STRUCTURAL ELEMENTS ARE INCLUDED IN THIS SCOPE OF WORK.

10. PROVIDE DUST BARRIERS AROUND OPENINGS, TO AND FROM THE CONSTRUCTION AREA. PROVIDE ALL MEANS NECESSARY TO INHIBIT DUST FROM ENTERING OTHER PORTIONS OF THE FACILITY. SUBMIT BARRIER LOCATIONS TO THE ARCHITECT FOR APPROVAL, PRIOR TO INSTALLATION.

 PROVIDE ADEQUATE SHORING, BRACING, BARRICADES AND PROTECTIVE MEASURES AS REQUIRED TO SAFELY EXECUTE THE WORK IN THE CONSTRUCTION AREA AND THE AREAS ADJACENT TO THE CONSTRUCTION AREA. CEASE OPERATIONS AND NOTIFY THE ARCHITECT IMMEDIATELY IF THE STRUCTURE APPEARS TO BE ENDANGERED. DO NOT RESUME OPERATIONS UNTIL CORRECTIVE MEASURES HAVE

12. CONTRACTOR SHALL MAINTAIN REQUIRED MEANS OF EGRESS AND ENSURE THAT EXIT ROUTES ARE SIGNED, LIGHTED AND PROTECTED IN ACCORDANCE WITH CODE REQUIREMENTS. RELOCATE EXISTING AND/OR PROVIDE SMOKE PROTECTORS AND

LIFE SAFETY EQUIPMENT FOR ADEQUATE COVERAGE. 13. PROVIDE TEMPORARY NON-COMBUSTIBLE CONSTRUCTION BARRIERS WHERE REQUIRED BY CODE AND THE GOVERNING FIRE AUTHORITY. MINIMUM REQUIREMENTS:

A. FULL HEIGHT WALL FROM FLOOR TO CEILING.

STUDS AT 24" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD NON-COMBUSTIBLE ACCESS DOOR WITH 3 HINGES AND SPRING CLOSER.

AND RECEIVE STRUCTURAL ENGINEER'S APPROVAL PRIOR TO DRILLING CONCRETE. 15. CUT RIGID MATERIALS USING MASONRY SAW OR CORE DRILL. PNEUMATIC TOOLS

LOCATIONS OF ALL BEAMS AND JOISTS. MARK ALL CORE DRILL PENETRATIONS

ARE NOT ALLOWED WITHOUT PRIOR APPROVAL.

16. ALL CORE DRILLING OR OTHER NOISY WORK SHALL BE SCHEDULED 48 HOURS IN ADVANCE WITH THE OWNER.

17. APPLY CEMENT BASE FLOOR PATCH AS REQUIRED TO FILL DINGS, NAIL HOLES, CHIPS AND CRACKS.

PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.

18. AT FLOOR AREAS SCHEDULED TO RECEIVE NEW FLOOR COVERING, REMOVE EXISTING FLOOR COVERING AND PREPARE SUBSTRATE FOR NEW FLOOR COVERING

19. AT ABANDONED PENETRATIONS OF FIRE RATED WALLS, CEILING OR FLOOR CONSTRUCTION, COMPLETELY SEAL VOIDS WITH FIRE RATED MATERIAL TO FULL THICKNESS OF THE PENETRATED ELEMENT. ALL PATCHING OF EXISTING WORK TO REMAIN SHALL MATCH FINISH PER SCHEDULE OR WHERE UNSCHEDULED TO MATCH EXISTING FINISHES TO REMAIN, AND SHALL MEET OR EXCEED FIRE RATING INDICATED ON FLOOR PLAN AND AS REQUIRED BY THE FIRE/LIFE SAFETY INSPECTOR.

20. COORDINATE EXISTING SPRINKLER LINE AND HEAD LOCATION WITH NEW PLAN. SUBMIT SPRINKLER SHOP DRAWINGS TO ARCHITECT FOR REVIEW WITH THE CITY FIRE DEPARTMENT.

I. CONTRACTOR IS RESPONSIBLE FOR BUILDING SECURITY DURING DEMOLITION PHASE. PROTECT ALL OPENINGS FROM WEATHER CONDITIONS AND SECURE THEM TO PREVENT VANDALISM.

22. DO NOT PERFORM ANY WORK THAT WILL VOID WARRANTIES OF EXISTING WEATHER EXPOSED OR MOISTURE RESISTANT ELEMENTS WITHOUT PRIOR APPROVAL FROM THE OWNER.

23. ARCHITECT ASSUMES NO RESPONSIBILITY RELATING TO ANY TOXIC MATERIALS, INCLUDING ASBESTOS, AND ASSUMES NO RESPONSIBILITY TO ITS EXISTENCE OR REMOVAL. THE OWNER WILL TAKE ACTION FOR DIRECTLY CONTRACTING WITH A CONSULTANT OR SPECIALIST, LICENSED BY THE STATE, FOR SUCH SERVICES SHOULD THOSE SERVICES BE REQUIRED ON THE PROJECT.

SEE ELECTRICAL ENGINEERING DRAWINGS FOR SPECIFICATIONS OF NEW BUILDING STANDARD LIGHT FIXTURES, SWITCHES, EXIT SIGNS, ETC.

CEILING NOTES

2. ALL REPLACEMENT FLUORESCENT LAMPS TO MATCH BUILDING STANDARD - SAME COLOR AND MANUFACTURER.

FIELD VERIFY EXISTING CEILING GRID LOCATION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES ON PLANS.

WHERE DISCREPANCIES IN LOCATION OF LIGHT FIXTURES. AIR DIFFUSERS. GRILLES. FTC. OCCUR ON THE FLECTRICAL ENGINEERING PLANS. THE ARCHITECTURAL PLANS SHALL GOVERN. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATIONS.

FIELD VERIFY ALL CLEARANCES OF DUCTS, PIPES, SPRINKLERS, ETC., AND NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF LIGHTS, ETC.

. PLACEMENT OF LIGHT FIXTURES IN AREAS WHERE MAIN DUCTS MAY CAUSE INTERFERENCE MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION. . CONDUIT ABOVE CEILING MUST BE A MINIMUM OF 12" ABOVE THE CEILING GRID.

B. NO COMBUSTIBLE MATERIALS SHALL BE USED IN THE PLENUM SPACE, INCLUDING ALUMINUM FLEX, ALUMINUM CONDUIT, AND POT METAL CONNECTORS.

ALL JUNCTION BOXES AND MECHANICAL EQUIPMENT REQUIRING ACCESS FOR SERVICE SHALL BE LOCATED OVER ACOUSTICAL CEILINGS. NO ACCESS HATCHES SHALL BE INSTALLED IN GYPSUM BOARD CEILINGS WITHOUT PRIOR APPROVAL BY ARCHITECT. (NO EXCEPTION)

IO. ALL SPRINKLER HEADS AT HARD-LID CEILINGS ARE TO BE FULLY RECESSED AND CONCEALED. HEADS ARE TO BE CENTERED BETWEEN LIGHTS IN A UNIFORM ARCHITECTURAL PATTERN. G.C. TO PROVIDE A SUBMITTAL WITH SPRINKLER HEAD LOCATIONS FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.

I. ALL HARD-LID CEILINGS ARE TO BE INSTALLED WITH LINEAR DIFFUSERS. G.C. TO PROVIDE A SUBMITTAL WITH ALL LINEAR DIFFUSER LOCATIONS PRIOR TO INSTALLATION.

12. LOCATE RECESSED DOWN LIGHTS, WALL WASHERS, SMOKE DETECTORS, EXIT SIGNS. SPEAKERS, FIRE SPRINKLERS, ETC. IN CENTER OF 24"x24" CEILING TILES OR IN CENTER OF 24"x24" PORTION OF 24"x48" CEILING TILES, UNLESS OTHERWISE

13. PROVIDE SWITCHES AND LIGHT SENSORS FOR OPEN AREAS AND PRIVATE OFFICES. ACTUAL LOCATION OF ALL SWITCHES TO BE DETERMINED BY ELECTRICAL

14. WHERE EXIT SIGNS ARE REQUIRED PER STATE & LOCAL CODES, THEY SHALL BE ILLUMINATED PER SAID CODES AND THE NEC. LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.

15. PROVIDE BACK-UP POWER FOR EXIT SIGNS PER STATE & LOCAL CODES. 16. THE MEANS OF EGRESS TRAVEL SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT-CANDLE AT THE FLOOR LEVEL.

17. EMERGENCY LIGHTING SHALL BE (2) SEPARATE SOURCES OF POWER AND SHALL COMPLY WITH THE NEC.

FINISH NOTES

NO FINISH SUBSTITUTIONS MAY BE MADE UNLESS APPROVED BY ARCHITECT.

. APPLICATION OF CONTROLLED INTERIOR FINISHES SHALL BE IN CONFORMANCE

A. THREE (3) 12" X 12" SAMPLES FOR ALL PAINT, VINYL AND FABRIC FINISHES AND COLORS APPLIED TO A SUBSTRATE WHICH IS REPRESENTATIVE OF THE

B. ONE (1) 24" X 24" MOCK-UP WITH SAMPLE SEAM (CENTERED) OF ALL

D. SUBMIT ACTUAL CUTTINGS OF EACH PRODUCT FOR COLOR/QUALITY CONTROL.

WHERE MATERIALS ARE NOT RETURNABLE, SUBMIT SAMPLES TO ARCHITECT

5. SUBMIT SEAMING PLAN FOR CARPET TO ARCHITECT FOR APPROVAL PRIOR TO

SURFACE TO BE FINISHED. SUBMIT PAINT SAMPLES FROM THE PAINT LOT OR

. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME—RETARDANT

4. SUBMIT THE FOLLOWING SAMPLES FOR ARCHITECT'S APPROVAL:

C. THREE (3) 12" X 12" SAMPLES OF ALL FLOOR COVERING.

NOTIFY ARCHITECT IMMEDIATELY OF ITEMS WITH LONG LEAD TIMES.

8. ALL PAINT FINISH OF METAL PARTS OF DOORS, HANDRAILS, PERIMETER

ENCLOSURES, ETC., SHALL BE SEMI-GLOSS, UNLESS OTHERWISE NOTED.

. WHERE PAINT COLORS CHANGE, CORNERS ARE TO BE CUT-IN FREE OF

10. PRIOR TO THE INSTALLATION OF WALL COVERINGS, SURFACES SHALL BE

PROPERLY PREPARED WITH SEALER PER MANUFACTURER'S RECOMMENDATIONS.

I. CONTRACTOR TO VERIFY CONDITION AND LEVEL OF FLOOR SO AS TO RECEIVE

NEW FINISHES WITHOUT BOWING AT FLOOR OR WALL BASE. CONTRACTOR IS

12. ALL CARPETING SHALL BE INSTALLED WITH GLUE DOWN METHOD, UNLESS NOTED

14. ALL V.C.T. TO BE INSTALLED WITH FULL TILE FROM VINYL THRESHOLD STRIP AND

PROVIDE AND INSTALL SPECIFIED BASE FOR ALL AREAS TO RECEIVE FLOORING.

16. CONTRACTOR SHALL PROVIDE PRE-FORMED RUBBER BASE CORNERS. DO NOT

17. MILLWORK LOWER CABINETS ARE NOT TO RECEIVE WALL BASE UNLESS INDICATED

18. FLOOR FINISHES TO CONTINUE UNDERNEATH "OPEN FLOOR" AREAS OF MILLWORK,

NCLUDING SINK AREA AND AT ALL UNDER-COUNTER EQUIPMENT AREAS WHICH

CARPET IN AN "X" OVER FLOOR HOLE AND INSTALL CARPET OVER TOP. DO NOT

13. WHERE FLOOR-MOUNTED OUTLETS ARE REQUIRED ON CARPETED AREA, CUT

LOTS INTENDED FOR APPLICATION.

BEFORE PLACING FULL ORDERS.

CARPET ORDER.

OVERLAPPING.

OTHERWISE.

TRIM CARPET.

ON FINISH PLANS.

ARE OPEN TO THE FLOOR.

FABRIC AND VINYL FINISHES AND COLOR.

RESPONSIBLE FOR ALL FLOOR PREPARATION.

FULL TILE FROM WALL ADJACENT TO DOOR SWING, U.N.O.

CUT OR BEND STRAIGHT BASE TO MAKE CORNERS.

WITH STATE & LOCAL CODES.

1. CONTRACTOR AND ARCHITECT TO REVIEW & APPROVE CHALK LINES OF PARTITION LAYOUT PRIOR TO COMMENCEMENT OF PARTITION CONSTRUCTION.

EXTEND ALL STUDS AND WALL MATERIALS TO CONSTRUCTION ABOVE, UNLESS OTHERWISE INDICATED.

PARTITION PLAN NOTES

ALL CONDUIT PIPING IN ELECTRICAL ROOM TO BE CONCEALED WITHIN THE WALL CONSTRUCTION. DOOR OPENINGS IN PARTITIONS NOT DIMENSIONED ARE TO BE LOCATED WITHIN 4"

OF ADJACENT PERPENDICULAR PARTITION. 5. CONTRACTOR SHALL USE 3-5/8" METAL STUDS MINIMUM AT ALL PLUMBING

WALLS. CONTRACTOR TO VERIFY ACTUAL DEPTH REQUIRED, ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT. 6. USE WATER RESISTANT GYPSUM BOARD AT ALL AREAS SUBJECT TO MOISTURE OR

WHERE TILE IS USED. 7. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL

8. ALL HOT WATER LINES SHALL BE PROPERLY INSULATED. SEE PLUMBING

CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT. AND CABINETS. SUBMIT A PLAN OF ALL PROPOSED LOCATIONS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

ALL PLUMBING CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE

10. ALL MILLWORK SHALL CONFORM TO STATE & LOCAL WOODWORKING STANDARDS. 11. FIELD MEASURE AS REQUIRED FOR ALL MILLWORK CONDITIONS PRIOR TO

12. PROVIDE AND INSTALL ALL NECESSARY WALL BACKING, STIFFENERS, BRACING, BACK-UP PLATES AND / OR SUPPORTING BRACKETS AS REQUIRED FOR THE INSTALLATION OF WALL-MOUNTED OR SUSPENDED EQUIPMENT OR BUILT-IN ITEMS. VERIFY REQUIREMENTS WITH MANUFACTURERS PRIOR TO INSTALLATION. SUPPLY CATALOG CUT SHEETS FOR ARCHITECT'S APPROVAL.

13. PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL CONNECTIONS AND PLUMBING SUPPLY, FITTINGS & CONNECTORS TO COMPLETE INSTALLATION OF APPLIANCES & EQUIPMENT INDICATED ON PLAN. VERIFY REQUIREMENTS WITH MANUFACTURERS PRIOR TO INSTALLATION. SUPPLY CATALOG CUT SHEETS FOR ARCHITECT'S APPROVAL.

14. EXACT LOCATION OF FIRE EXTINGUISHER CABINETS TO BE CONFIRMED WITH ARCHITECT BEFORE INSTALLATION. PROVIDE ADDITIONAL FIRE EXTINGUISHERS & CABINETS AS REQUIRED BY THE FIRE DEPARTMENT FIELD INSPECTORS.

15. CONTRACTOR TO VERIFY LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.

16. ALL EXITS SHALL HAVE EXIT SIGNS AND ALL BLIND CORRIDOR TURNS SHALL HAVE DIRECTIONAL EXIT SIGNS.

17. PREPARE ALL FLOOR SURFACES AS REQUIRED TO RECEIVE FINISHES AS NOTED ON FINISH PLAN, ENLARGED FINISH PLANS & FINISH LEGEND. 18. UNLESS OTHERWISE NOTED, ALL GYPSUM BOARD SURFACES, WALLS, AND CEILINGS SHALL BE TAPED. SANDED SMOOTH TO A "LEVEL 4" FINISH, SO AS TO RECEIVE

19. PROVIDE SOUND INSULATION AT PERIMETER WALLS OF RESTROOMS, LOBBY, STAIRS, AND ACROSS CEILING OF RESTROOMS TO CREATE AN ACOUSTIC ENVELOPE, UNLESS NOTED OTHERWISE.

POWER & SIGNAL NOTES

OUTLET BOX. NON-DIMENSIONED OUTLETS ARE TO LOCATED AT THE NEAREST

SUPPORTED INDEPENDENTLY FROM SUSPENDED CEILING SYSTEM. CABLING TO BE

PAINT OR WALL COVERING MATERIAL.

SUB-CONTRACTOR.

WALL STUD.

INSPECTIONS

CITY OF ANAHEIM FINAL INSPECTION REQUIRED. PLEASE SCHEDULE ALL FIELD INSPECTIONS AT LEAST 48 HOURS IN ADVANCE. INSPECTIONS CANCELED AFTER 1 P.M. ON THE DAY BEFORE THE SCHEDULED DATE WILL BE SUBJECT TO A REINSPECTION FEE. PHASING OF INSPECTIONS MAY REQUIRE ADDITIONAL FEES,

FIRE AUTHORITY NOTES

BUILDINGS UNDER CONSTRUCTION OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 14. NO SMOKING OR COOKING IS ALLOWED IN STRUCTURES WHERE COMBUSTIBLE MATERIALS ARE EXPOSED OR WITHIN 25' OF COMBUSTIBLE MATERIALS STORAGE AREAS. CUTTING, WELDING, OR OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 26.

IN BUILDINGS FOUR OR MORE STORIES IN HEIGHT, STANDPIPES SHALL BE PROVIDED DURING CONSTRUCTION WHEN THE HEIGHT REACHES 40 FEET ABOVE THE LOWEST POINT OF FIRE DEPARTMENT ACCESS. A FIRE DEPARTMENT CONNECTION SHALL BE NO MORE THAN 100 FEET FROM AVAILABLE FIRE DEPARTMENT VEHICLE ACCESS ROADWAYS. A HYDRANT SHALL BE LOCATED ALONG THE ACCESS ROADWAY WITHIN 150 FEET OF THE LOCATION(S) THAT THE FDC CAN BE ACCESSED FROM. CFC 1413

ADDRESS NUMBERS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS, BE A MINIMUM SIX INCHES HIGH, CONTRAST WITH THEIR BACKGROUND, AND BE PLAINLY VISIBLE FROM THE ROADWAY THE BUILDING IS ADDRESSED ON. TEMPORARY ADDRESS NUMBERS SHALL BE PROVIDED ON CONSTRUCTION FENCING OR THE BUILDING UNTIL PERMANENT NUMBERS CAN BE PROVIDED. CBC 501.2. CFC

LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH CFC 906 AND CCR TITLE 19. AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED DURING CONSTRUCTION ON EACH FLOOR AT EACH STAIRWAY, IN EACH STORAGE AND CONSTRUCTION SHED, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, OR WHERE SIMILAR HAZARDS ARE PRESENT PER CFC 1415.1. BEFORE FINAL OCCUPANCY, AT LEAST ONE 2A:10B:C EXTINGUISHER SHALL BE PROVIDED SO THAT NO POINT IS MORE THAN 75 FEET TRAVEL DISTANCE FROM THE EXTINGUISHER. EXTINGUISHERS SHALL BE LOCATED ALONG THE PATH OF EGRESS TRAVEL AND IN A READILY VISIBLE AND ACCESSIBLE LOCATION, WITH THE BOTTOM OF THE EXTINGUISHER AT LEAST 4" ABOVE THE FLOOR. ADDITIONAL EXTINGUISHERS MAY BE REQUIRED BY OCFA INSPECTORS DEPENDING ON PROJECT OR SITE CONDITIONS AND FINAL PLACEMENT IS SUBJECT TO THEIR APPROVAL.

WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.3. DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE STATE FIRE MARSHAL WITH APPROPRIATE DOCUMENTATION PROVIDED TO THE OCFA. SUCH ITEMS SHALL BE APPROVED AND INSPECTED BY THE OCFA PRIOR TO INSTALLATION.

KNOX BOXES/KEY CABINETS SHALL BE PROVIDED FOR ALL HIGH-RISE BUILDINGS. POOL ENCLOSURES, GATES IN THE PATH OF FIREFIGHTER TRAVEL TO STRUCTURES SECURED PARKING LEVELS, DOORS GIVING ACCESS TO ALARM PANELS AND/OR ANNUNCIATORS, AND ANY OTHER STRUCTURES OR AREAS WHERE IMMEDIATE ACCESS IS REQUIRED OR IS UNDULY DIFFICULT. AN OCFA INSPECTOR CAN ASSIST WITH LOCKING GATE KEYS IN KNOX BOXES, CONTACT YOUR LOCAL FIRE STATION TO ARRANGE AN APPOINTMENT TO SECURE MASTER BUILDING KEYS IN THE KNOX

APPROVAL OF THESE PLANS SHALL NOT PERMIT THE VIOLATION OF ANY CODE OR LAW. REQUIREMENTS OR FEATURES NOT IDENTIFIED ON THE PLAN MAY APPLY AND OCFA INSPECTORS MAY REQUIRE ADDITIONAL INFORMATION OR ITEMS FROM THOSE SHOWN ON THE PLAN DEPENDING ON ACTUAL OR ANTICIPATED FIELD CONDITIONS. SUCH CHANGES MAY NECESSITATE SUBMITTAL OF REVISED OR AS-BUILT PLANS TO THE OCFA AND THE CITY/COUNTY WHERE THE PROJECT IS LOCATED.

GENERAL REQUIREMENTS

THE PROJECT SHALL COMPLY WITH 2010 CALIFORNIA BUILDING CODE, 2010 CALIFORNIA FIRE CODE, AND OTHER CURRENTLY ADOPTED CODES, STANDARDS, REGULATIONS AND REQUIREMENTS AS ENFORCED BY THE ORANGE COUNTY FIRE

DUMPSTERS AND TRASH CONTAINERS EXCEEDING 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM OR LOCATED IN A TYPE I OR IIA STRUCTURE SEPARATED BY 10 FEET FROM OTHER STRUCTURES. CONTAINERS LARGER THAN 1 CUBIC YARD SHALL BE OF NON- OR LIMITED-COMBUSTIBLE MATERIALS OR SIMILARLY PROTECTED OR SEPARATED. CFC 304.3

EXIT, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS, AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS, OR OTHER DECORATIVE MATERIAL.

4. THE EGRESS PATH SHALL REMAIN FREE AND CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES. NO STORAGE IS PERMITTED IN AISLES.

EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. DOORS SHALL NOT BE PROVIDED WITH THUMB-TURN LOCKS OR DEADBOLTS THAT DO NOT UNLATCH IN TANDEM WITH THI NORMAL OPERATING LEVER. THE OPENING FORCE FOR INTERIOR DOORS WITHOUT CLOSERS SHALL NOT EXCEED 5 POUNDS. THE UNLATCHING AND OPENING FORCE FOR OTHER DOORS, INCLUDING FIRE DOORS, SHALL NOT EXCEED 15 POUNDS. CBC

THE EXIT PATH SHALL BE CLEARLY IDENTIFIED WITH EXIT SIGNS CONFORMING TO CBC 1011. STAIRS SERVING 4+ STORIES SHALL HAVE STAIRWELL SIGNS CONFORMING TO CBC 1022.8. ILLUMINATED EXIT SIGNS MUST HAVE 90-MINUTE EMERGENCY POWER BACK-UP. TACTILE SIGNS SHALL BE PROVIDED IN COMMERCIAL BUILDINGS, PUBLIC BUILDINGS AND ACCOMMODATIONS, AND PUBLICLY FUNDED HOUSING SUBJECT TO CBC CHAPTER 11B AND SHALL CONFORM TO 1117B.5.1, BE LOCATED FIVE FEET ABOVE FINISH FLOOR LEVEL AND, WHENEVER POSSIBLE, ON THE STRIKE SIDE OF THE DOOR. LETTERING SHALL BE BETWEEN

5/8" AND 2" HIGH. CBC 1011.3 THE EXIT PATH SHALL BE ILLUMINATED AT ALL TIMES IN ACCORDANCE WITH CBC

1006. EMERGENCY LIGHTING SHALL BE PROVIDED WITH 90 MINUTE BACKUP. RATED ASSEMBLIES SHALL CONFORM TO APPROVED METHODS AND MATERIALS OF CONSTRUCTION. PENETRATIONS THROUGH RATED WALLS, CEILINGS, OR FLOORS SHALL BE PROTECTED IN AN APPROVED MANNER COMPLYING WITH CBC/CFC CHAPTER 7.

RATED DOORS SHALL BE SELF-CLOSING AND LATCHING; SUCH DOORS SHALL NOT BE EQUIPPED WITH DOOR STOPS OR OTHERWISE PROPPED OPEN. RATED DOORS SHALL BE EQUIPPED WITH RATED HARDWARE. CFC 703

EXTINGUISHING SYSTEMS:

AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT THE BUILDING IN COMPLIANCE WITH 2010 NFPA 13 (13-R) AND CFC 903. REVIEW AND APPROVAL OF A SPRINKLER PLAN IS REQUIRED PRIOR TO INSTALLATION OR

AN AUTOMATIC EXTINGUISHING SYSTEM SHALL BE PROVIDED TO PROTECT COMMERCIAL-TYPE FOOD HEATING EQUIPMENT THAT PRODUCES GREASE-LADEN VAPORS AND SHALL COMPLY WITH 2010 CFC/CMC AND NFPA 17A. REVIEW AND APPROVAL OF A HOOD AND DUCT EXTINGUISHING SYSTEM PLAN IS REQUIRED PRIOR TO INSTALLATION OR USE OF COOKING EQUIPMENT.

MODIFICATION TO FIRE SPRINKLER SYSTEMS SHALL COMPLY WITH 2010 NFPA 13

WHEN FIRE SPRINKLER SYSTEMS ARE REQUIRED IN BUILDINGS OF UNDETERMINED USE OTHER THAN WAREHOUSES, THEY SHALL BE DESIGNED AND INSTALLED TO HAVE A FIRE SPRINKLER DENSITY OF NOT LESS THAN THAT REQUIRED FOR AN ORDINARY HAZARD (GROUP 2) USE, WITH A MINIMUM DESIGN AREA OF 3,000 SQUARE FEET (279 M2). WAREHOUSE FIRE SPRINKLER SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 16.2.2 OF THE 2010 NFPA 13. WHERE A SUBSEQUENT OCCUPANCY REQUIRES A SYSTEM WITH GREATER CAPABILITY, IT SHALL BE THE RESPONSIBILITY OF THE OCCUPANT TO UPGRADE THE SYSTEM TO THE REQUIRED DENSITY.

ALARM SYSTEMS:

A FIRE ALARM SYSTEM SHALL BE PROVIDED IN COMPLIANCE WITH THE CBC/CFC 907 AND NFPA 72. A SEPARATE PLAN SUBMITTAL IS REQUIRED FOR APPROVAL PRIOR TO INSTALLATION OR MODIFICATION.

AUTOMATIC FIRE SPRINKLER SYSTEM(S) AND ALL CONTROL VALVES, WITH THE EXCEPTION OF THOSE LISTED IN CFC 903.4, SHALL BE MONITORED BY A UL LISTED CENTRAL ALARM STATION.

THE CITY OF ANAHEIM. A SEPARATE PLAN SUBMITTAL IS REQUIRED. OTHER REQUIREMENTS

AT LEAST ONE EMERGENCY ESCAPE AND RESCUE WINDOW SHALL BE PROVIDED FOR EVERY SLEEPING ROOM BELOW THE FOURTH STORY IN R OCCUPANCIES. CBC

HIGH PILED COMBUSTIBLE STORAGE SHALL BE IN ACCORDANCE WITH CFC CHAPTER 23. HIGH HAZARD MATERIALS CANNOT BE STORED HIGHER THAN SIX FEET AND OTHER MATERIALS CANNOT BE STORED HIGHER THAN TWELVE FEET WITHOUT FIRST SUBMITTING PLANS TO AND OBTAINING APPROVAL FROM THE CITY

ANAHEIM INSPECTOR PRIOR TO OCCUPANCY.

2. ALL EXISTING ELECTRICAL DEVICES ARE TO REMAIN, UNLESS NOTED OTHERWISE. 3. ALL OUTLETS TO BE INSTALLED AT LOCATIONS SHOWN BY DIMENSIONS ON THE POWER & SIGNAL PLAN. DIMENSION ALL OUTLETS FROM THE CENTERLINE OF THE

WHEN OUTLETS ARE GROUPED TOGETHER (2 OR MORE), THEY ARE TO BE SPACED NO MORE THAN 2" APART.

COORDINATE TELEPHONE/DATA INSTALLATION WITH APPROPRIATE

ALL NEW WALL MOUNTED 15, 20, AND 30 AMP RECEPTACLES OUTLETS TO BE CENTERED AT +18" A.F.F., U.N.O. ALL TELEPHONE AND DATA CABLE TO BE TEFLON COATED PLENUM RATED CABLE,

SUPPLIED BY TENANT; ALL PULLS AND TERMINATIONS BY GENERAL CONTRACTOR. LOCATIONS OF FURNITURE POWER FEEDS SHALL ACCOMMODATE CIRCUITS AND WIRE PER ELECTRICAL DRAWINGS. TENANT SHALL BE RESPONSIBLE FOR PROVIDING FURNITURE POWER FEED, GENERAL CONTRACTOR SHALL INSTALL THE

POWER FEED. 8. WHERE DEDICATED ELECTRICAL OUTLETS ARE NOTED WITHIN THE FURNITURE PANEL SYSTEM, THE PANEL SYSTEM SHALL ACCOMMODATE THIS REQUIREMENT.

9. FLOOR OUTLETS ARE ACCEPTABLE NEXT TO SLIDING PANELS/WALLS AND OTHER

SPECIAL CONVENIENT LOCATIONS. 10. WHERE ELECTRICAL WORK IS SPECIFIED IN CONJUNCTION WITH CABINET WORK, LAMPS AND FIXTURES ARE TO BE PROVIDED BY THE GENERAL CONTRACTOR. 11. CUT-OUTS FOR SWITCHES, OUTLETS, ETC. AS REQUIRED BY THE CABINET CONTRACTOR ARE TO BE COORDINATED WITH THE ELECTRICAL CONTRACTOR. U.N.O. ALL RECEPTACLES WHERE MILLWORK OCCURS SHALL BE LOCATED PER

ELEVATIONS OF THE MILLWORK ITEM IN QUESTION. 12. ALL WALL COVER PLATES SHALL BE WHITE, UNLESS BUILDING STANDARD IS

DIFFERENT, MATCH BUILDING STANDARD.

13. ALL SEPARATE CIRCUIT RECEPTACLES TO BE ORANGE COLOR WITH BUILDING STANDARD COLOR COVER PLATE.

1. EACH LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF THE GLASS.

2. GLASS SHALL BE FIRMLY SUPPORTED ON ALL FOUR EDGES.

THE FLOOR SHALL BE TEMPERED. 5. ALL GLASS SHALL COMPLY WITH THE REQUIREMENTS OF STATE AND LOCAL

4. ALL GLAZING WITHIN A 24" ARC OF EITHER EDGE OF A DOOR AND WITHIN 60" OF

GLAZING NOTES

3. FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION.

MODIFICATION.

(13-R) AND CFC 903. A SEPARATE PLAN SUBMITTAL IS REQUIRED.

MODIFICATIONS TO FIRE DETECTION OR ALARM SYSTEMS SHALL BE APPROVED BY

THE SMOKE CONTROL SYSTEM SHALL COMPLY WITH CBC/CFC 909 AND CFC REGULATIONS. REVIEW AND APPROVAL OF A RATIONAL ANALYSIS REPORT IS REQUIRED PRIOR TO COMMENCING CONSTRUCTION. ACCEPTANCE TESTING SHALL BE PERFORMED BY A QUALIFIED THIRD PARTY AND VERIFIED BY A CITY OF

14. SURVEY EXISTING FLOORS AND CLEARLY MARK ON FLOOR SURFACE THE

WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION, ANY THIRD PARTY COMMISSIONING AGENT AND/OR SPECIAL INSPECTORS REQUIRED TO PROVIDE VERIFICATION OF COMPLIANCE WITH THE FOLLOWING REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE TENANT/BUILDING OWNER.

ANY MATERIAL OR PRODUCT SUBSTITUTIONS MADE BY THE GENERAL CONTRACTOR SHALL BE IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT FOR PRIOR REVIEW. ANY REQUESTED SUBSTITUTIONS THAT ARE NOT IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS WILL BE REJECTED AND THE GENERAL CONTRACTOR WILL BE REQUIRED TO FURNISH THE SPECIFIED PRODUCT/MATERIAL AT NO

4. IT IS HIGHLY ENCOURAGED THAT THE GENERAL CONTRACTOR REVIEW THE SAMPLE WORKSHEETS PROVIDED IN CHAPTER 8 OF THE 2010 CALIFORNIA GREEN BUILDINGS STANDARDS CODE IN PREPARATION FOR THE REQUIRED DOCUMENTS RELATED TO CONSTRUCTION WASTE MANAGEMENT.

5. IN THE EVENT OF ANY DISCREPANCY BETWEEN THIS DOCUMENT AND THE CURRENT 2010 CALIFORNIA GREEN BUILDINGS STANDARDS CODE, INCLUDING AMENDMENTS, THE TEXT OF THE CODE AND AMENDMENTS SHALL GOVERN.

INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS

SECTION 702 QUALIFICATIONS

702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

1. STATE CERTIFIED APPRENTICESHIP PROGRAMS

2. PUBLIC UTILITY TRAINING PROGRAMS

3. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATE-WIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS

4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS 5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY

702.2 SPECIAL INSPECTION.

BSC WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE, NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

NOTE: SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

SECTION 703 VERIFICATIONS

703.1 DOCUMENTATION.

DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION PLAN. FOR NEWLY CONSTRUCTED PROJECTS OF LESS THAN ONE ACRE,

DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT HAS BEEN DESIGNED, SPECIFIC TO ITS SITE, CONFORMING TO THE STATE STORM WATER NPDES CONSTRUCTION PERMIT OR LOCAL ORDINANCE, WHICHEVER IS STRICTER, AS IS REQUIRED FOR PROJECTS

5.106.4.1 SHORT-TERM BICYCLE PARKING.

IF THE PROJECT IS ANTICIPATED TO GENERATE VISITOR TRAFFIC, PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS WITHIN 100 FEET OF THE VISITORS' ENTRANCE, READILY VISIBLE TO PASSERS-BY, FOR 5 PERCENT OF VISITOR MOTORIZED VEHICLE PARKING CAPACITY, WITH A MINIMUM OF ONE TWO-BIKE CAPACITY RACK.

PROVIDE MINIMUM _____ SHORT TERM BICYCLE PARKING SPACES

NO

5.106.4.2 LONG-TERM BICYCLE PARKING. FOR BUILDINGS WITH OVER 10 TENANT-OCCUPANTS. PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF MOTORIZED VEHICLE PARKING CAPACITY, WITH A MINIMUM OF ONE SPACE. ACCEPTABLE PARKING FACILITIES SHALL BE CONVENIENT FROM THE STREET AND MAY

1. COVERED. LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES;

2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS:

PROVIDE MINIMUM _____ LONG TERM BICYCLE PARKING SPACES

3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.

5.106.5.2 DESIGNATED PARKING. PROVIDE DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT AND CARPOOL/VAN POOL VEHICLES AS FOLLOWS:

___ DESIGNATED PARKING SPACES AS PROVIDE MINIMUM ____ REQUIRED PER TABLE 5.106.5.2

TABLE 5.106.5.2

TOTAL NUMBER	NUMBER
OF PARKING SPACES	OF REQUIRED SPACES
0-9	0
10-25	1
26-50	3
51-75	6
76–100	8
101-150	11
151-200	16
201 AND OVER	AT LEAST 8 PERCENT OF TOTAL

5.106.5.2.1 PARKING STALL MARKING. PAINT, IN THE PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF THE STALL STRIPING AND IS VISIBLE

BENEATH A PARKED VEHICLE:

" CLEAN AIR " VEHICLE

5.106.8 LIGHT POLLUTION REDUCTION. COMPLY WITH LIGHTING POWER REQUIREMENTS IN THE CALIFORNIA ENERGY CODE, CCR, PART 6, AND DESIGN INTERIOR AND EXTERIOR LIGHTING SUCH THAT ZERO DIRECT-BEAM ILLUMINATION LEAVES THE BUILDING SITE. MEET OR EXCEED EXTERIOR LIGHT LEVELS AND UNIFORMITY RATIOS FOR LIGHTING ZONES 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE, CCR, PART 1 USING THE FOLLOWING STRATEGIES:

1. SHIELD ALL EXTERIOR LUMINAIRES OR PROVIDE CUTOFF LUMINAIRES PER SECTION 132 (B) OF THE CALIFORNIA ENERGY CODE.

2. CONTAIN INTERIOR LIGHTING WITHIN EACH SOURCE. 3. ALLOW NO MORE THAN .01 HORIZONTAL LUMEN FOOTCANDLES TO

ESCAPE 15 FEET BEYOND THE SITE BOUNDARY. 4. AUTOMATICALLY CONTROL EXTERIOR LIGHTING DUSK TO DAWN TO

TURN OFF OR LOWER LIGHT LEVELS DURING INACTIVE PERIODS.

SECTION 5.303 INDOOR WATER USE

5.303.1.1 BUILDINGS IN EXCESS OF 50,000 SQUARE FEET. SEPARATE SUBMETERS SHALL BE INSTALLED AS FOLLOWS:

1. FOR EACH INDIVIDUAL LEASED, RENTED OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 110 GAL/DAY.

2. FOR SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP PROJECTED TO CONSUME MORE THAN 100 GAL/DAY.

ANY BUILDING WITHIN A PROJECT OR SPACE WITHIN A BUILDING THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.2 TWENTY PERCENT SAVINGS. A SCHEDULE OF PLUMBING FIXTURES AND FIXTURE FITTINGS THAT WILL REDUCE THE OVERALL USE OF POTABLE WATER WITHIN THE BUILDING BY 20 PERCENT SHALL BE PROVIDED. THE REDUCTION SHALL BE BASED ON THE MAXIMUM ALLOWABLE WATER USE PER PLUMBING FIXTURE AND FITTINGS AS REQUIRED BY THE CALIFORNIA BUILDING STANDARDS CODE. THE 20 PERCENT REDUCTION IN POTABLE WATER

1. EACH PLUMBING FIXTURE AND FITTING SHALL MEET THE 20 PERCENT REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3 OR

USE SHALL BE DEMONSTRATED BY ONE OF THE FOLLOWING METHODS:

2. A CALCULATION DEMONSTRATING A 20 PERCENT REDUCTION IN THE BUILDING "WATER USE BASELINE" AS ESTABLISHED IN TABLE 5.303.2.2 SHALL BE PROVIDED.

5.303.4 WASTEWATER REDUCTION.

5.303.1.2 EXCESS CONSUMPTION.

EACH BUILDING SHALL REDUCE BY 20 PERCENT WASTEWATER BY ONE OF THE FOLLOWING METHODS:

1. [DSA-SS] THE INSTALLATION OF WATER-CONSERVING FIXTURES (WATER CLOSETS, URINALS) MEETING THE CRITERIA ESTABLISHED IN SECTIONS 5.303.2 OR 5.303.3 OR

2. UTILIZING NONPOTABLE WATER SYSTEMS [CAPTURED RAINWATER, GRAYWATER, AND MUNICIPALLY TREATED WASTEWATER (RECYCLED WATER) COMPLYING WITH THE CURRENT EDITION OF THE CALIFORNIA PLUMBING CODE OR OTHER METHODS DESCRIBED IN SECTION

TABLE 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

REQU	JIRED STANDARDS
WATER CLOSETS (TOILETS) — FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/ CSA B45.1 - 1.28 GAL (4.8L)
WATER CLOSETS (TOILETS) — FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME	ASME A 112.19.14 AND USEPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION - 1.28 GAL (4.8L)
WATER CLOSETS (TOILETS) - TANK TYPE	U.S. EPA WATERSENSE TANK-TYPE HIGH-EFFICIENCY TOILET SPECIFICATION
URINALS, MAXIMUM FLUSH VOLUME	ASME A 112.19.2/ CSA B45.1 - 0.5 GAL (1.9L)
URINALS, NONWATER URINALS	ASME A 112.19.19 (VITREOUS CHINA) ANSI Z124.9-2004 OR IAPMO Z124.9 (PLASTIC)
PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE - 0.5 GPM (1.9L/MIN)	ASME A 112.18.1/CSA B125.1
PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE - 0.25 GAL (1.0L) PER METERING CYCLE	ASME A 112.18.1/CSA B125.1
RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 1.5 GPM	ASME A 112.18.1/CSA B125.1

SECTION 5.304 OUTDOOR WATER USE

5.304.1 WATER BUDGET.

(5.7 L/MIN)₁

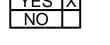
A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION USE THAT CONFORMS TO THE LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR TO THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER LANDSCAPE ORDINANCE WHERE NO LOCAL ORDINANCE IS APPLICABLE.

NOTE: PRESCRIPTIVE MEASURES TO ASSIST IN COMPLIANCE WITH THE WATER BUDGET ARE LISTED IN SECTIONS 492.5 THROUGH 492.8, 492.10 AND 492.11 OF THE ORDINANCE, WHICH MAY BE FOUND AT: HTTP: //WWW.OWUE.WATER.CA.GOV/LANDSCAPE/ORD/ORD.CFM



FOR NEW WATER SERVICE FOR LANDSCAPED AREAS BETWEEN 1,000 SQUARE FEET AND 5,000 SQUARE FEET (THE LEVEL AT WHICH WATER CODE \$535 APPLIES). SEPARATE METERS OR SUBMETERS SHALL BE INSTALLED FOR INDOOR AND OUTDOOR POTABLE WATER USE.

5.304.3.1 IRRIGATION CONTROLLERS.



AUTOMATIC IRRIGATION SYSTEM CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY WITH THE FOLLOWING: 1. CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN

CONDITIONS CHANGE. 2. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALI SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN

RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE DIVERSION.

ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.

5.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN FOR APPROVAL BY THE ENFORCEMENT

1. IDENTIFIES THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.

2. DETERMINES IF MATERIALS WILL BE SORTED ON-SITE OR MIXED. 3. IDENTIFIES DIVERSION FACILITIES WHERE MATERIAL COLLECTED WILL

4. SPECIFIES THAT THE AMOUNT OF MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

5.408.2.1 DOCUMENTATION

DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 5.408.2, ITEMS 1 THRU 4. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

5.408.3 CONSTRUCTION WASTE REDUCTION OF AT LEAST 50 PERCENT.

RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CALCULATE THE AMOUNT OF MATERIALS DIVERTED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

5.408.4 EXCAVATED SOIL AND LAND CLEARING DEBRIS.



100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS

SECTION 5.410 BUILDING MAINTENANCE AND OPERATION

5.410.1 RECYCLING BY OCCUPANTS.

PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS AND METALS.

5.410.2 COMMISSIONING.

FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY. COMMISSIONING REQUIREMENTS SHALL INCLUDE:

1. OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS 2. BASIS OF DESIGN

3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS

4. COMMISSIONING PLAN

5. FUNCTIONAL PERFORMANCE TESTING

THE COMMISSIONING REQUIREMENTS.

6. DOCUMENTATION AND TRAINING

7. COMMISSIONING REPORT ALL BUILDING SYSTEMS AND COMPONENTS COVERED BY TITLE 24, PART 6, AS WELL AS PROCESS EQUIPMENT AND CONTROLS, AND RENEWABLE ENERGY SYSTEMS SHALL BE INCLUDED IN THE SCOPE OF

SECTION 5.410 BUILDING MAINTENANCE AND OPERATION (CONT.)

5.410.2.4 FUNCTIONAL PERFORMANCE TESTING. FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE.

5.410.2.5 DOCUMENTATION AND TRAINING.

A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN CALIFORNIA CODE REGULATIONS (CCR). TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.2.5.1 SYSTEMS MANUAL.

DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND FACILITIES OPERATOR. THE SYSTEMS MANUAL SHALL INCLUDE THE FOLLOWING:

1. SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS

2. SITE CONTACT INFORMATION

3. BASIC OPERATIONS MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES. BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS. SITE EVENTS LOG

4. MAJOR SYSTEMS

CALIFORNIA GREEN BUILDINGS STANDARDS CODE - NON-RESIDENTIAL MANDATORY MEASURES

5. SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES

6. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE

7. OTHER RESOURCES AND DOCUMENTATION

5.410.2.5.2 SYSTEMS OPERATIONS TRAINING. THE TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DOCUMENTED IN THE

COMMISSIONING REPORT AND SHALL INCLUDE THE FOLLOWING:

1. SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES)

2. REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE

3. REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL 4. REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/EQUIPMENT

5.410.2.6 COMMISSIONING REPORT.

A COMPLETE REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION AND REPORTING RECOMMENDATIONS FOR POSTCONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.

5.410.4 TESTING AND ADJUSTING.

TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET.

5.410.4.2 SYSTEMS.

DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE AT A MINIMUM, AS APPLICABLE TO THE

1. HVAC SYSTEMS AND CONTROLS

2. INDOOR AND OUTDOOR LIGHTING AND CONTROLS

3. WATER HEATING SYSTEMS 4. RENEWABLE ENERGY SYSTEMS

6. WATER REUSE SYSTEMS

5. LANDSCAPE IRRIGATION SYSTEMS

5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL.

5.410.4.3.1 HVAC BALANCING.

IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS: THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE BUILDING OFFICIAL.

5.410.4.4 REPORTING.

AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE

FOR PERFORMING THESE SERVICES. 5.410.4.5 OPERATION AND MAINTENANCE (O&M) MANUAL

PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 AND OTHER RELATED REGULATIONS.

5.410.4.5.1 INSPECTIONS AND REPORTS.

INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

SECTION 5.504 POLLUTANT CONTROL



PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION

SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. 5.504.4 FINISH MATERIAL POLLUTANT CONTROL.

FINISH MATERIALS SHALL COMPLY WITH SECTIONS 5.504.4.1 THROUGH

COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC,

5.504.4.1 ADHESIVES, SEALANTS AND CAULKS.

ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:

1. ADHESIVES, ADHESIVE BONDING PRIMERS ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED IN SUBSECTION 2, BELOW.

2. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS. INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH

TABLE 5.504.4.1

ADHESIVE VOC LIMIT LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVE	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVE NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP AND TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

TABLE 5.504.4.2 SEALANT VOC LIMIT

LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

5.504.4.3 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 5.504.4.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 5.504.4.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36 AND 4.37 OR THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT. NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 5.504.4.3 SHALL APPLY.

5.504.4.3.1 AEROSOL PAINTS AND COATINGS.

AEROSOL PAINTS AND COATINGS SHALL MEET THE PWMIR LIMITS FOR ROC IN SECTION 94522(a)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(c)(2) AND (d)(2) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8

EFFECTIVE | EFFECTIVE

TABLE 5.504.4.3

COATING CATEGOR'

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS 2,3 GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS

1/1/2010 1/1/2012	00/11/10/0/11/200111		
NONFLAT COATINGS 100 NONFLAT HIGH GLOSS COATINGS 150 SPECIALTY-COATINGS 400 ALUMINUM ROOF COATINGS 400 BASEMENT SPECIALTY COATINGS 50 BITUMINOUS ROOF COATINGS 50 BITUMINOUS ROOF PRIMERS 350 BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE,/MASONRY SEALERS 100 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 150 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350		1/1/2010	1/1/2012
NONFLAT HIGH GLOSS COATINGS 150	FLAT COATINGS	50	
SPECIALTY-COATINGS	NONFLAT COATINGS	100	
ALUMINUM ROOF COATINGS	NONFLAT HIGH GLOSS COATINGS	150	
BASEMENT SPECIALTY COATINGS	SPECIALTY-COATINGS		
BITUMINOUS ROOF COATINGS 50	ALUMINUM ROOF COATINGS	400	
BITUMINOUS ROOF PRIMERS 350	BASEMENT SPECIALTY COATINGS	400	
BOND BREAKERS 350 CONCRETE CURING COMPOUNDS 350 CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM—RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH—TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 50 ROF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 70 OPAQUE 550	BITUMINOUS ROOF COATINGS	50	
CONCRETE CURING COMPOUNDS 350 CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM—RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH—TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 450 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	BITUMINOUS ROOF PRIMERS	350	
CONCRETE/MASONRY SEALERS 100 DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RCYCLED COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 550 STONE CONSO	BOND BREAKERS	350	
DRIVEWAY SEALERS 50 DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FICOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS ¹ 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 STAINS 250 STONE CONSOLIDANTS 450 <t< td=""><td>CONCRETE CURING COMPOUNDS</td><td>350</td><td></td></t<>	CONCRETE CURING COMPOUNDS	350	
DRY FOG COATINGS 150 FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FILOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 SHELLACS: CLEAR OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 STAINS 250 STONE CONSOLIDANTS 450 STIMMING POOL COATINGS 100 TRAFFIC MARKING COATI	CONCRETE/MASONRY SEALERS	100	
FAUX FINISHING COATINGS 350 FIRE RESISTIVE COATINGS 350 FLOOR COATINGS 100 FORM-RELEASE COMPOUNDS 250 GRAPHIC ARTS COATINGS (SIGN PAINTS) 500 HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 730 OPAQUE 550 STAINS 250 STONE CONSOLIDANTS 450 STAINS 250 STONE CONSOLIDANTS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 4	DRIVEWAY SEALERS	50	
FIRE RESISTIVE COATINGS FLOOR COATINGS FLOOR COATINGS FORM—RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH—TEMPERATURE COATINGS LOW SOLIDS COATINGS LOW SOLIDS COATINGS MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS AND UNDERCOATERS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE CONSOLIDANTS STONE CONSOLIDANTS STONE CONSOLIDANTS TRAFFIC MARKING COATINGS TUB AND TILE REFINISH COATINGS 100 TUB AND TILE REFINISH COATINGS 250 WOOD PRESERVATIVES WOOD PRESERVATIVES WOOD PRESERVATIVES	DRY FOG COATINGS	150	
FLOOR COATINGS FORM—RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH—TEMPERATURE COATINGS LOW SOLIDS COATINGS 1 MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS AND UNDERCOATERS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS TOO STAINS STONE CONSOLIDANTS SWIMMING POOL COATINGS TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 250 WOOD PRESERVATIVES 350 C250 WOOD PRESERVATIVES 350 C75 WOOD PRESERVATIVES 350	FAUX FINISHING COATINGS	350	
FORM—RELEASE COMPOUNDS GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH—TEMPERATURE COATINGS LOW SOLIDS COATINGS 1 MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS METALLIC PIGMENTED COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS AND UNDERCOATERS RECYCLED COATINGS ROF COATINGS SOO RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STON STAINS STONE CONSOLIDANTS SOO STAINS TRAFFIC MARKING COATINGS 100 STAINS TUB AND TILE REFINISH COATINGS 250 WOOD COATINGS 420 WATERPROOFING MEMBRANES 250 STONE COATINGS 450 TRAFFIC MARKING COATINGS 450 WATERPROOFING MEMBRANES 250 WOOD PRESERVATIVES 350 C75 WOOD PRESERVATIVES 350	FIRE RESISTIVE COATINGS	350	
GRAPHIC ARTS COATINGS (SIGN PAINTS) HIGH-TEMPERATURE COATINGS HIGH-TEMPERATURE COATINGS LOW SOLIDS COATINGS 1 LOW SOLIDS COATINGS 1 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 500 RUST PREVENTATIVE COATINGS 500 RUST PREVENTATIVE COATINGS 500 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 STIMS 250 STONE CONSOLIDANTS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	FLOOR COATINGS	100	
HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 500 RUST PREVENTATIVE COATINGS 500 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TRAFFIC MARKING COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	FORM-RELEASE COMPOUNDS	250	
HIGH-TEMPERATURE COATINGS 420 INDUSTRIAL MAINTENANCE COATINGS 250 LOW SOLIDS COATINGS 1 120 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 500 RUST PREVENTATIVE COATINGS 500 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TRAFFIC MARKING COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	
INDUSTRIAL MAINTENANCE COATINGS LOW SOLIDS COATINGS 1 LOW SOLIDS COATINGS 1 MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 500 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350		420	
MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350		250	
MAGNESITE CEMENT COATINGS 450 MASTIC TEXTURE COATINGS 100 METALLIC PIGMENTED COATINGS 500 MULTICOLOR COATINGS 250 PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	LOW SOLIDS COATINGS 1	120	
METALLIC PIGMENTED COATINGS MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS AND UNDERCOATERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE CONSOLIDANTS STONE CONSOLIDANTS TRAFFIC MARKING COATINGS WATERPROOFING MEMBRANES WOOD COATINGS 100 STAINS 250 STONE CONSOLIDANTS TUB AND TILE REFINISH COATINGS WOOD COATINGS WOOD COATINGS 250 WOOD PRESERVATIVES 350		450	
MULTICOLOR COATINGS PRETREATMENT WASH PRIMERS PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE CONSOLIDANTS STONE CONSOLIDANTS SWIMMING POOL COATINGS TUB AND TILE REFINISH COATINGS WATERPROOFING MEMBRANES WOOD COATINGS 250 WOOD PRESERVATIVES 350 WOOD PRESERVATIVES 350 ### 420 ##	MASTIC TEXTURE COATINGS	100	
PRETREATMENT WASH PRIMERS 420 PRIMERS, SEALERS AND UNDERCOATERS 100 REACTIVE PENETRATING SEALERS 350 RECYCLED COATINGS 250 ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	METALLIC PIGMENTED COATINGS	500	
PRIMERS, SEALERS AND UNDERCOATERS REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS WATERPROOFING MEMBRANES WOOD COATINGS WOOD COATINGS 100 100 100 100 100 100 100 1	MULTICOLOR COATINGS	250	
REACTIVE PENETRATING SEALERS RECYCLED COATINGS ROOF COATINGS RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB AND TILE REFINISH COATINGS WATERPROOFING MEMBRANES WOOD COATINGS WOOD COATINGS TOB TOB TOB TOB TOB TOB TOB TO	PRETREATMENT WASH PRIMERS	420	
RECYCLED COATINGS ROOF COATINGS 50 RUST PREVENTATIVE COATINGS SHELLACS: CLEAR OPAQUE SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS TUB AND TILE REFINISH COATINGS WATERPROOFING MEMBRANES WOOD COATINGS 250 WOOD PRESERVATIVES	PRIMERS, SEALERS AND UNDERCOATERS	100	
ROOF COATINGS 50 RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	REACTIVE PENETRATING SEALERS	350	
RUST PREVENTATIVE COATINGS 400 250 SHELLACS: CLEAR 730 OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	RECYCLED COATINGS	250	
SHELLACS: CLEAR OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 STONE CONSOLIDANTS SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS WATERPROOFING MEMBRANES WOOD COATINGS 250 WOOD PRESERVATIVES 350	ROOF COATINGS	50	
CLEAR OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES	RUST PREVENTATIVE COATINGS	400	250
OPAQUE 550 SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	SHELLACS:		
SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS 350 100 STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	CLEAR	730	
STAINS 250 STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	OPAQUE	550	
STONE CONSOLIDANTS 450 SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	350	100
SWIMMING POOL COATINGS 450 TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	STAINS	250	
TRAFFIC MARKING COATINGS 100 TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	STONE CONSOLIDANTS	450	
TUB AND TILE REFINISH COATINGS 420 WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	SWIMMING POOL COATINGS	450	
WATERPROOFING MEMBRANES 250 WOOD COATINGS 275 WOOD PRESERVATIVES 350	TRAFFIC MARKING COATINGS	100	
WOOD COATINGS275WOOD PRESERVATIVES350	TUB AND TILE REFINISH COATINGS	420	
WOOD PRESERVATIVES 350	WATERPROOFING MEMBRANES	250	
	WOOD COATINGS	275	
ZINC-RICH PRIMERS 340	WOOD PRESERVATIVES	350	
	ZINC-RICH PRIMERS	340	

5.504.4.3.2 VERIFICATION

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

ALL CODE SECTIONS SHOWN ARE APPLICABLE TO THE SCOPE OF THIS PROJECT UNLESS INDICATED:

YES NO X

1. MANUFACTURER'S PRODUCT SPECIFICATION

THIS PROJECT IS IN COMPLIANCE WITH THE 2010 CALIFORNIA GREEN BUILDINGS STANDARDS CODE.

2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS 5.504.4.4 CARPET SYSTEMS.

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING: 1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.

2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE

FOR THE TESTING OF VOCs (SPECIFICATION 01350). 3. NSF/ANSI 140 AT THE GOLD LEVEL.

4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE.

5.504.4.4.1 CARPET CUSHION.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

5.504.4.4.2 CARPET ADHESIVE.

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE

5.504.4.5 COMPOSITE WOOD PRODUCTS. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.), BY OR BEFORE THE

DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 5.504.4.5

TABLE 5.504.4.5 ₁ FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE **EMISSIONS IN PARTS PER MILLION**

PRODUCT	CURRENT LIMIT	JAN 1, 2012	JUL 1, 2012
HARDWOOD PLYWOOD VENEER CORE	0.05		
HARDWOOD PLYWOOD COMPOSITE CORE	0.08		0.05
PARTICLE BOARD	0.09		
MEDIUM DENSITY FIBERBOARD	0.11		
THIN MEDIUM DENSITY FIBERBOARD 2	0.21	0.13	

5.504.4.5.2 DOCUMENTATION.

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS 2. CHAIN OF CUSTODY CERTIFICATIONS

3. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY

5.504.4.6 RESILIENT FLOORING SYSTEMS.

FOR 50 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALL RESILIENT FLOORING COMPLYING WITH THE VOC-EMISSION LIMITS DEFINED IN THE 2009 COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) CRITERIA AND LISTED ON ITS LOW-EMITTING MATERIALS LIST (OR PRODUCT REGISTRY) OR CERTIFIED UNDER THE

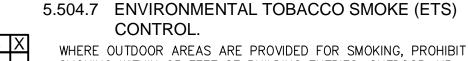
RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.

5.504.4.6.1 VERIFICATION OF COMPLIANCE DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8.

IN MECHANICALLY VENTILATED BUILDINGS. PROVIDE REGULARLY

OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR



5.504.5.3 FILTERS.

SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND IN BUILDINGS; OR AS ENFORCED BY ORDINANCES, REGULATIONS OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN

DRDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST

SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS. **SECTION 5.506 INDOOR AIR QUALITY**

5.506.2 CARBON DIOXIDE (CO₂) MONITORING.

FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 121(c).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4.1 EXTERIOR NOISE TRANSMISSION.

WALL AND ROOF-CEILING ASSEMBLIES MAKING UP THE BUILDING ENVELOPE SHALL HAVE AN STC OF AT LEAST 50. AND EXTERIOR WINDOWS SHALL HAVE A MINIMUM STC OF 30 FOR ANY OF THE FOLLOWING BUILDING LOCATIONS:

1. WITHIN 1,000 FT (300m) OF RIGHT OF WAYS OF FREEWAYS.

2. WITHIN 5 MI. (8 km) OF AIRPORTS SERVING MORE THAN 10,000

COMMERCIAL JETS PER YEAR. 3. WHERE SOUND LEVELS AT THE PROPERTY LINE REGULARLY EXCEED 65 DECIBELS, OTHER THAN OCCASIONAL SOUND DUE TO CHURCH

BELLS, TRAIN HORNS, EMERGENCY VEHICLES AND PUBLIC WARNING **SECTION 5.508 OUTDOOR AIR QUALITY**

THAT DO NOT CONTAIN HALONS.

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

> INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCs. 5.508.1.2 HALONS.

INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT

5.508.1.1 CHLOROFLUOROCARBONS (CFCs).

TENGLISH PA / PM: DRAWN BY: 000

SHEET

JOB NO.: | SDG11-6080-0

THE DEFINITION OF 'PATH OF TRAVEL' PER STATE & LOCAL CODES.

ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES", AND THAT IS CONSISTENT WITH

. WHEN MORE THAN ONE BUILDING OR FACILITY IS LOCATED ON A SITE, ACCESSIBLE ROUTES OF TRAVEL SHALL BE PROVIDED BETWEEN BUILDINGS AND ACCESSIBLE SITE FACILITIES.

ACCESSIBLE BUILDING ENTRANCES, ACCESSIBLE SITE FACILITIES, AND THE ACCESSIBLE ENTRANCE 3. WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE OR ADAPTABLE,

2. THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE THE MOST PRACTICAL DIRECT ROUTE BETWEEN

- AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE PROVIDED TO ALL PORTIONS OF THE BUILDING, TO ACCESSIBLE BUILDING ENTRANCES AND BETWEEN THE BUILDING AND THE PUBLIC WAY. 4. EXCEPT WITHIN AN INDIVIDUAL DWELLING UNIT, AN ACCESSIBLE ROUTE OF TRAVEL SHALL NOT
- PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS, OR OTHER SPACES USED FOR
- 5. AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS, TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. THE ACCESSIBLE ROUTE SHALL, TO THE MAXIMUM EXTENT FEASIBLE, COINCIDE WITH THE ROUTE FOR THE GENERAL PUBLIC.
- 6. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS AND SPACES THAT ARE ON THE SAME SITE.
- 7. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY.
- 8. WHEN MORE THAN ONE ROUTE OF TRAVEL IS PROVIDED, ALL ROUTES SHALL BE ACCESSIBLE.

EGRESS & AREAS OF REFUGE

WITH LOCAL CODES.

- 1. IN BUILDINGS OR PORTIONS OF BUILDINGS REQUIRED TO BE ACCESSIBLE, ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED IN THE SAME NUMBER AS REQUIRED FOR EXITS PER "EGRESS" CHAPTER OF LOCAL CODE.
- 2. WHEN AN EXIT REQUIRED BY STATE AND LOCAL CODES IS NOT ACCESSIBLE. AN AREA OF REFUGE SHALL BE PROVIDED AND SHALL ADJOIN AN ACCESSIBLE ROUTE OF TRAVEL.
- 3. AN AREA OF REFUGE SHALL BE ONE OF THE FOLLOWING: A PORTION OF A STAIRWAY LANDING WITHIN A SMOKEPROOF ENCLOSURE THAT COMPLIES
- A PORTION OF AN EXTERIOR EXIT BALCONY LOCATED IMMEDIATELY ADJACENT TO AN EXIT. STAIRWAY WHEN THE EXTERIOR EXIT BALCONY COMPLIES WITH LOCAL CODE REQUIREMENTS. OPENINGS TO THE EXTERIOR OF THE BUILDING LOCATED WITHIN 20 FEET OF THE AREA OF REFUGE SHALL BE PROTECTED WITH FIRE ASSEMBLIES HAVING A 3/4-HOUR FIRE PROTECTION
- A PORTION OF A ONE-HOUR FIRE-RESISTIVE CORRIDOR COMPLYING WITH LOCAL CODE REQUIREMENTS LOCATED IMMEDIATELY ADJACENT TO AN EXIT ENCLOSURE.
- A VESTIBULE LOCATED IMMEDIATELY ADJACENT TO AN EXIT ENCLOSURE AND CONSTRUCTED TO THE SAME FIRE-RESISTIVE STANDARDS AS REQUIRED BY LOCAL CODE.
- A PORTION OF A STAIRWAY LANDING WITHIN AN EXIT ENCLOSURE WHICH IS VENTED TO THE EXTERIOR AND IS SEPARATED FROM THE INTERIOR OF THE BUILDING BY NOT LESS THAN ONE-HOUR FIRE-RESISTIVE DOOR ASSEMBLIES.
- WHEN APPROVED BY THE BUILDING OFFICIAL, AN AREA OR ROOM WHICH IS SEPARATED FROM OTHER PORTIONS OF THE BUILDING BY A SMOKE BARRIER. SMOKE BARRIERS SHALL HAVE A FIRE-RESISTIVE RATING OF NOT LESS THAN ONE HOUR AND SHALL COMPLETELY ENCLOSE THE AREA OR ROOM. DOORS IN THE SMOKE BARRIER SHALL BE TIGHT-FITTING SMOKE-AND DRAFT-CONTROL ASSEMBLIES HAVING A FIRE-PROTECTION RATING OF NOT LESS THAN 20 MINUTES AND SHALL BE SELF-CLOSING OR AUTOMATIC CLOSING. THE AREA OR ROOM SHALL BE PROVIDED WITH AN EXIT DIRECTLY TO AN EXIT ENCLOSURE. WHEN THE ROOM OR AREA EXITS INTO AN EXIT ENCLOSURE WHICH IS REQUIRED TO BE OF MORE THAN ONE-HOUR FIRE-RESISTIVE CONSTRUCTION, THE ROOM OR AREA SHALL HAVE THE SAME FIRE-RESISTIVE CONSTRUCTION, INCLUDING THE SAME OPENING PROTECTION, AS REQUIRED FOR THE ADJACENT EXIT ENCLOSURE.
- AN ELEVATOR LOBBY COMPLYING WITH LOCAL CODE REQUIREMENTS.
- 4. EACH AREA OF REFUGE SHALL PROVIDE AT LEAST TWO ACCESSIBLE AREAS THAT ARE NOT LESS THAN 30 INCHES BY 48 INCHES. THE AREA OF REFUGE SHALL NOT ENCROACH ON ANY REQUIRED EXIT WIDTH. THE TOTAL NUMBER OF SUCH 30-INCH BY 48 INCH AREAS PER STORY SHALL BE NOT LESS THAN ONE FOR EVERY 200 PERSONS OF CALCULATED OCCUPANT LOAD SERVED BY THE AREA OF REFUGE.
- 5. EACH STAIRWAY ADJACENT TO AN AREA OF REFUGE SHALL HAVE A MINIMUM CLEAR WIDTH OF 48 INCHES BETWEEN HANDRAILS IN BUILDINGS NOT PROVIDED WITH AN AUTOMATIC FIRE SPRINKLER
- 6. A TELEPHONE WITH CONTROLLED ACCESS TO A PUBLIC TELEPHONE SYSTEM OR ANOTHER METHOD OF TWO-WAY COMMUNICATION SHALL BE PROVIDED BETWEEN EACH AREA OF REFUGE AND THE PRIMARY ENTRY. THE FIRE DEPARTMENT MAY APPROVE A LOCATION OTHER THAN THE PRIMARY
- 7. A METHOD OF TWO-WAY COMMUNICATION WITH BOTH VISIBLE AND AUDIBLE COMMUNICATION, SHALL BE PROVIDED BETWEEN EACH AREA OF REFUGE AND THE PRIMARY ENTRY. A BUTTON IN THE AREA REFUGE SHALL ACTIVATE BOTH A LIGHT IN THE AREA OF REFUGE INDICATING THAT RESCUE HAS BEEN REQUESTED AND A LIGHT AT THE PRIMARY ENTRY INDICATING THAT RESCUE IS BEING REQUESTED. A BUTTON AT THE PRIMARY ENTRY SHALL ACTIVATE BOTH A LIGHT AT THE PRIMARY ENTRY AND A LIGHT IN THE AREA OF REFUGE INDICATING THAT THE REQUEST HAS BEEN RECEIVED.
- 8. EACH AREA OF REFUGE SHALL BE IDENTIFIED BY A SIGN WITH STATES "AREA OF REFUGE" AND THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SIGN SHALL BE ILLUMINATED WHEN EXIT SIGN ILLUMINATION IS REQUIRED. IN EACH AREA OF REFUGE, INSTRUCTIONS ON THE USE OF THE AREA UNDER EMERGENCY CONDITIONS SHALL BE POSTED ADJOINING THE TWO-WAY COMMUNICATION
- 9. WITHIN A BUILDING OF ANY HEIGHT OR OCCUPANCY CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL CODES, AN AREA OF REFUGE MAY BE LOCATED IN THE ELEVATOR LOBBY (HIGH-RISE ALTERNATIVE) WHEN:
- THE AREA OF REFUGE COMPLIES WITH THE REQUIREMENTS FOR SIZE, TWO-WAY COMMUNICATION, AND IDENTIFICATION AS SPECIFIED PER LOCAL CODE, AND
- ELEVATOR SHAFTS AND ADJACENT LOBBIES ARE PRESSURIZED AS REQUIRED FOR SMOKEPROOF ENCLOSURES PER LOCAL CODES. SUCH PRESSURIZATION SYSTEM SHALL BE ACTIVATED BY SMOKE DETECTORS ON EACH FLOOR LOCATED IN A MANNER APPROVED BY THE BUILDING OFFICIAL. PRESSURIZATION EQUIPMENT AND ITS DUCTWORK WITHIN THE BUILDING SHALL BE SEPARATED FROM OTHER PORTIONS OF THE BUILDING BY A MINIMUM TWO-HOUR FIRE-RESISTIVE CONSTRUCTION.

NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED

- 1. IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FMFRGENCY WARNING SYSTEMS AS PART OF THE FIRE—ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72 AS AMENDED PER STATE AND
- APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED SHALL BE INSTALLED IN THE FOLLOWING AREAS:
- CORRIDORS

LOCAL CODES.

- MUSIC PRACTICE ROOMS BAND ROOMS GYMNASIUMS
- MULTI-PURPOSE ROOMS OCCUPATIONAL SHOPS
- OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM LOBBIES
- MEETING ROOMS ANY OTHER AREA FOR COMMON USE

HAZARDS & PROTRUDING OBJECTS

- OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.
- . OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27" ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS OR AISLES.
- FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE GROUND OR FINISHED FLOOR.
- PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
- WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACES SHALL HAVE 80" MINIMUM CLEAR HEAD ROOM.
- WHEREVER SIGNS MOUNTED ON POSTS OR PYLONS PROTRUDE FROM THE POSTS OR PYLONS AND THE BOTTOM EDGE OF THE SIGN IS AT LESS THAN 80" ABOVE THE FINISHED FLOOR OR GROUND LEVEL, THE EDGES OF SUCH SIGNS SHALL BE ROUNDED OR EASED AND THE CORNERS SHALL HAVE A MINIMUM RADIUS OF 0.125".

ENTRANCES, EXITS & DOORS

ENTRANCES, PASSAGE DOORS, ETC.

WHEELCHAIR TRAFFIC.

- NOTE: THE TERM "EXIT DOOR" SHALL MEAN ALL OF THOSE DOORS OR DOORWAYS ALONG THE PATH OF EXIT TRAVEL ANYWHERE IN A MEANS OF EGRESS SYSTEM. NOTE: THE USE OF THE TERM "EXIT DOOR" APPLIES TO ALL DOORS THAT PROVIDE ACCESS, THAT IS,
- 1. ALL ENTRANCES AND ALL EXTERIOR GROUND—FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES.
- 2. DURING PERIODS OF PARTIAL OR RESTRICTED USE OF A BUILDING OR FACILITY, THE ENTRANCES USED FOR PRIMARY ACCESS SHALL BE ACCESSIBLE TO AND USABLE BY PERSONS WITH
- RECESSED DOORMATS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERFERENCE WITH
- EXIT DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
- 5. EVERY REQUIRED EXIT DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET 8 INCHES IN HEIGHT.
- 6. IN COMPUTING THE EXIT WIDTH AS REQUIRED BY STATE AND LOCAL CODES, THE NET DIMENSION
- OF THE DOORWAY/EXITWAY SHALL BE USED. . FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN
- 8. OPENINGS MORE THAN 24" IN DEPTH SHALL COMPLY WITH STATE & LOCAL CODES.

ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.

- 9. WHERE A PAIR OF DOORS IS UTILIZED. AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR. UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
- 10. WHEN AN AUTOMATIC DOOR OPERATOR IS UTILIZED TO OPERATE A PAIR OF DOORS, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
- I. REVOLVING DOORS SHALL NOT BE USED AS A REQUIRED ENTRANCE FOR PERSONS WITH DISABILITIES.
- 12. REVOLVING, SLIDING AND OVERHEAD DOORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL NOT BE USED AS REQUIRED EXIT DOORS.
- 13. ALL GATES, INCLUDING TICKET GATES, SHALL MEET ALL APPLICABLE ACCESSIBILITY SPECIFICATIONS OF DOORS. 14. WHEN PERMANENTLY MOUNTED FOLDING OR MOVEABLE PARTITIONS ARE USED TO DIVIDE A ROOM
- INTO SMALLER SPACES, EXITS FROM THESE ENCLOSURES SHALL BE PROVIDED AS REQUIRED PER . WHERE PIVOTED OR BALANCED DOORS ARE USED AND PANIC HARDWARE IS REQUIRED, PANIC HARDWARE SHALL BE OF THE PUSH-PAD TYPE AND THE PAD SHALL NOT EXCEED ACROSS MORE
- 16. EXIT DOORS SHALL SWING IN THE DIRECTION OF THE PATH OF TRAVEL WHERE THE AREA SERVED

THAN HALF OF THE WIDTH OF THE DOOR MEASURED FROM THE LATCH SIDE.

- HAS AN OCCUPANT LOAD OF 50 OR MORE. 17. REGARDLESS OF THE OCCUPANT LOAD, THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF
- 18. THE FLOOR OR LANDING ON EACH SIDE OF A DOOR SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL. CHANGE IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
- 19. LANDINGS SHALL BE LEVEL EXCEPT THAT EXTERIOR LANDINGS MAY HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2% SLOPE).
- 20. MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL BE PER STATE & LOCAL CODES. THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.
- 21. THE LEVEL AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60 INCHES AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION. EXCEPTION: THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING SHALL BE A MINIMUM OF 44 INCHES WHERE THE DOOR HAS NO CLOSER AND APPROACH TO THE DOOR BY A PERSON IN A WHEELCHAIR CAN BE MADE FROM THE LATCH SIDE, OR IF THE DOOR HAS NEITHER LATCH NOR CLOSER AND APPROACH CAN BE MADE FROM THE HINGE SIDE.
- 22. THE WIDTH OF THE LEVEL AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND A MINIMUM OF 18 INCHES PAST THE STRIKE EDGE FOR INTERIOR DOORS. AN ADDITIONAL 12 INCHES IS REQUIRED AT THE PUSH SIDE, IF DOOR IS EQUIPPED WITH BOTH LATCH AND CLOSER.
- 23. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENINGS IN A VESTIBULE, SERVING OTHER THAN A REQUIRED EXIT STAIRWAY, SHALL PROVIDE A MINIMUM OF 48 INCHES OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH VESTIBULE WHEN THE DOOR IS POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. DOORS IN A SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.
- 24. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR AND INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.
- 25. IF THE DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LANDING EDGE OF THE DOOR.
- 26. HAND-ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE
- 27. 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, 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.
- 28. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED. A 10-INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR. WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
- 29. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- 30. BARS, GRILLES, GRATES, OR SIMILAR DEVICES PLACED OVER ANY REQUIRED EXIT DOOR, SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, OR ANY SPECIAL KNOWLEDGE OR EFFORT. SUCH BARS, GRILLES, GRATES, OR SIMILAR DEVICES SHALL BE EQUIPPED WITH AN APPROVED RELEASE DEVICE FOR USE BY THE FIRE DEPARTMENT ONLY ON THE EXTERIOR SIDE FOR THE PURPOSE OF FIRE DEPARTMENT EMERGENCY ACCESS, WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- 31. MANUALLY OPERATED EDGE— OR SURFACE—MOUNTED FLUSH BOLTS AND SURFACE BOLTS OR ANY OTHER TYPE OF DEVICE THAT MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THAN BY OPERATION OF THE LOCKING DEVICE SHALL NOT BE USED. WHERE EXIT DOORS ARE USED IN PAIRS AND APPROVED AUTOMATIC FLUSH BOLTS ARE USED, THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS SHALL HAVE NO DOORKNOB OR SURFACE-MOUNTED HARDWARE. THE UNLATCHING OF ANY LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.

CONTROLS AND OPERATING MECHANISMS

- 1. CONTROLS AND OPERATING MECHANISMS ARE REQUIRED TO BE ACCESSIBLE PER LOCAL CODES.
- 2. CLEAR FLOOR SPACE COMPLYING WITH LOCAL CODES THAT ALLOWS A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT.
- 3. THE HIGHEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN 48 INCHES OF THE FLOOR BUT NOT LOWER THAN 15 INCHES IF FORWARD APPROACHED AND WITHIN 54 INCHES BUT NOT LOWER THAN 9 INCHES IF SIDE APPROACHED.
- 4. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE.
- FAUCET CONTROLS AND OPERATING MECHANISMS FOR KITCHEN SINKS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5-POUND-FORCE. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

ELECTRICAL

- WHERE ACCESS FOR PERSONS WITH DISABILITIES IS REQUIRED. THE CENTER OF FLECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPS OR LESS SHALL BE INSTALLED NOT MORE THAN 48" NOR LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.
- WHERE ACCESS FOR PERSONS WITH DISABILITIES IS REQUIRED, THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE NOT MORE THAN 48" ABOVE THE FINISHED FLOOR OR WORKING PLATFORM.
- 3. THE CENTER OF FIRE ALARM MANUAL PULL STATIONS SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK.

SIGNS & IDENTIFICATION

- WHEN NEW OR ADDITIONAL SIGNS AND/OR IDENTIFICATION DEVICES ARE PROVIDED, OR WHEN EXISTING SIGNS AND/OR IDENTIFICATION DEVICES ARE REPLACED OR ALTERED, THE NEW OR ALTERED SIGNS AND/OR IDENTIFICATION DEVICES SHALL COMPLY WITH LOCAL CODES. THE ADDITION OF OR REPLACEMENT OF SIGNS AND OR IDENTIFICATION DEVICES SHALL NOT TRIGGER
- ANY ADDITIONAL PATH OF TRAVEL REQUIREMENTS. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH LOCAL CODES.
- WHEN SIGNS DIRECT TO OR GIVE INFORMATION ABOUT PERMANENT ROOMS AND SPACE OF A BUILDING OR SITE, THEY SHALL COMPLY WITH LOCAL CODES.
- 4. WHEN SIGNS IDENTIFY, DIRECT OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURE OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY AND SHALL COMPLY WITH LOCAL CODES.
- 5. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUNDS, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
- 6. CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
- CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH LOCAL CODE, THE MINIMUM CHARACTER HEIGHT SHALL BE
- 8. WHEN RAISED CHARACTERS ARE REQUIRED OR WHEN PICTORIAL SYMBOLS (PICTOGRAMS) ARE USED ON SUCH (ABOVE) SIGNS, THEY SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE COMPLYING WITH LOCAL CODE.
- RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT. VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MINIMUM OF 6" IN HEIGHT
- 9. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
- 10. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
- 11. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN STATE CODE AND AS SPECIFICALLY REQUIRED BELOW:
- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B. EXCEPTION: THE APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE SPECIAL SIGNS AND DENTIFICATION NECESSARY TO COMPLEMENT DECOR OR UNIQUE DESIGN WHEN IT IS DETERMINED THAT SUCH SIGNS AND IDENTIFICATION PROVIDE ADEQUATE DIRECTION TO
- ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, UTILIZING THE SYMBOL, AT JUNCTIONS, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
- BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC SANITARY FACILITIES AND /OR FLEVATORS FOR PUBLIC USE SHALL HAVE THIS INFORMATION POSTED IN THE BUILDING LOBBY, PREFERABLY AS PART OF THE BUILDING DIRECTORY. THE INFORMATION SHALL BE ACCOMPANIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- 12. WHERE THE INTERNATIONAL SYMBOL OF TTY IS REQUIRED, IT SHALL COMPLY WITH LOCAL CODES. 13. WHERE TELEPHONES WITH VOLUME CONTROLS ARE REQUIRED TO BE IDENTIFIED, THE IDENTIFICATION SYMBOL SHALL BE A TELEPHONE HANDSET WITH RADIATING SOUNDWAVES, AS SHOWN PER FIGURE IN LOCAL CODE.
- 14. WHERE ASSISTIVE LISTENING SYSTEMS ARE REQUIRED TO BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS, IT SHALL COMPLY WITH FIGURE PER LOCAL CODE.
- 15. WHENEVER SIGNS SHALL REFER TO TEXT TELEPHONES FOR PEOPLE WHO ARE DEAF OR HARD OF HEARING, THE TERM "TTY" SHALL BE USED; THE TERM "TTD" SHALL NOT BE USED. 16. AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL, THERE SHALL BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL

OF ACCESSIBILITY. SIGNS SHALL INDICATE THE DIRECTION TO ACCESSIBLE BUILDING ENTRANCES

- AND FACILITIES AND SHALL COMPLY WITH LOCAL CODES. 18. PER STATE CODE, TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS: WHEREVER BASIC BUILDING CODE PROVISIONS REQUIRE EXIT SIGNS FROM A ROOM OR AREA
- EACH GRADE-LEVEL EXIT DOOR. THE TACTILE EXIT SIGN SHALL HAVE THE WORD, "EXIT". EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP. THE TACTILE EXIT SIGN SHALL HAVE THE FOLLOWING WORDS AS APPROPRIATE: "EXIT STAIR DOWN", "EXIT RAMP DOWN", "EXIT STAIR UP", "EXIT RAMP UP".

TO A CORRIDOR OR HALLWAY. THE TACTILE EXIT SIGN SHALL HAVE THE WORDS, "EXIT

- EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY. THE TACTILE EXIT SIGN SHALL HAVE THE WORDS, "EXIT ROUTE"
- EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "TO EXIT."
- 19. TACTILE STAIR LEVEL IDENTIFICATION SIGNS (COMPLYING WITH STATE ACCESSIBILITY CODES) SHALL BE LOCATED AT EACH FLOOR LEVEL LANDING IN ALL ENCLOSED STAIRWAYS IN BUILDINGS TWO OR MORE STORIES IN HEIGHT TO IDENTIFY THE FLOOR LEVEL. AT THE EXIT DISCHARGE LEVEL, THE SIGN SHALL INCLUDE A RAISED FIVE—POINTED STAR LOCATED TO THE LEFT OF THE IDENTIFYING FLOOR LEVEL.

CORRIDORS, HALLWAYS AND AISLES

PERSONS WITH DISABILITIES.

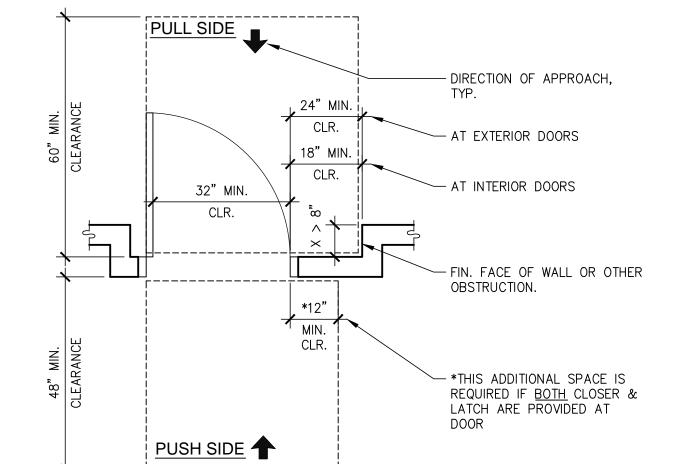
- NOTE: THE TERM CORRIDOR SHALL INCLUDE EXTERIOR EXIT BALCONIES AND ANY COVERED OR ENCLOSED EXIT PASSAGEWAY, INCLUDING WALKWAYS, TUNNELS AND MALLS. PARTITIONS, RAILS, COUNTERS, AND OTHER SIMILAR SPACE DIVIDERS NOT OVER 5'-9" IN HEIGHT ABOVE THE FLOOR SHALL NOT BE CONSTRUED TO FORM CORRIDORS.
- 1. EVERY CORRIDOR AND HALLWAY SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL NOT BE LESS THAN 44 INCHES IN WIDTH. CORRIDORS AND HALLWAYS SERVING AN OCCUPANT LOAD OF

OF TWO CORRIDORS OR WALKS IS AN ACCEPTABLE PASSING PLACE.

- LESS THAN 10 SHALL NOT BE LESS THAN 36 INCHES. 2. CORRIDORS AND HALLWAYS THAT ARE LOCATED ON AN ACCESSIBLE ROUTE AND EXCEED 200 FEET IN LENGTH SHALL HAVE A MINIMUM CLEAR WIDTH OF 60 INCHES. IF AN ACCESSIBLE ROUTE HAS LESS THAN 60 INCHES CLEAR WIDTH, THEN PASSING SPACES AT LEAST 60 INCHES BY 60 INCHES SHALL BE LOCATED AT REASONABLE INTERVALS NOT TO EXCEED 200 FEET. A "T" INTERSECTION
- . THE REQUIRED WIDTH OF CORRIDORS SHALL BE UNOBSTRUCTED, WITH THIS EXCEPTION: DOORS, WHEN FULLY OPENED, AND HANDRAILS SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE HALF. OTHER NONSTRUCTURAL PROJECTIONS SUCH AS TRIM AND SIMILAR DECORATIVE FEATURES MAY PROJECT INTO THE REQUIRED WIDTH 1-1/2" FROM EACH SIDE.
- 4. CIRCULATION AISLES AND PEDESTRIAN WAYS SHALL BE SIZED ACCORDING TO FUNCTIONAL REQUIREMENTS AND IN NO CASE SHALL BE LESS THAN 36 INCHES IN CLEAR WIDTH.

FLOORS, LEVELS AND SURFACES

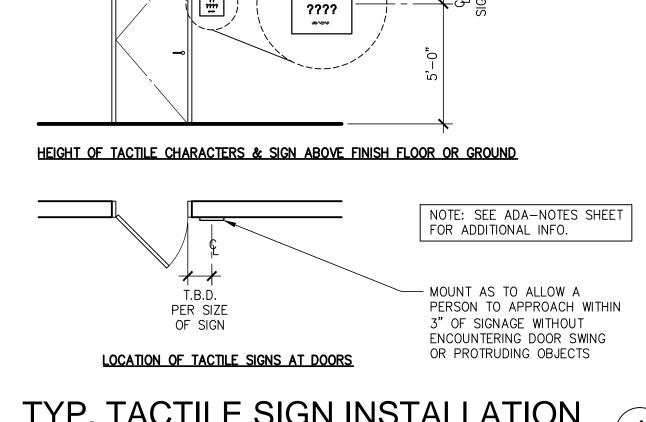
- NOTE: "LEVEL AREA" IS DEFINED AS A SPECIFIED SURFACE THAT DOES NOT HAVE A SLOPE IN ANY
- DIRECTION EXCEEDING 1/4 INCH IN ONE FOOT FROM THE HORIZONTAL (2.083% GRADIENT). 1. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS, OR SPECIAL ACCESS LIFTS.
- GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, AND SLIP-RESISTANT.
- 3. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. 4. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL.
- 5. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD OR BACKING OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH STATE & LOCAL CODES.





ACCESSIBLE SIGNAGE @ ENTRY

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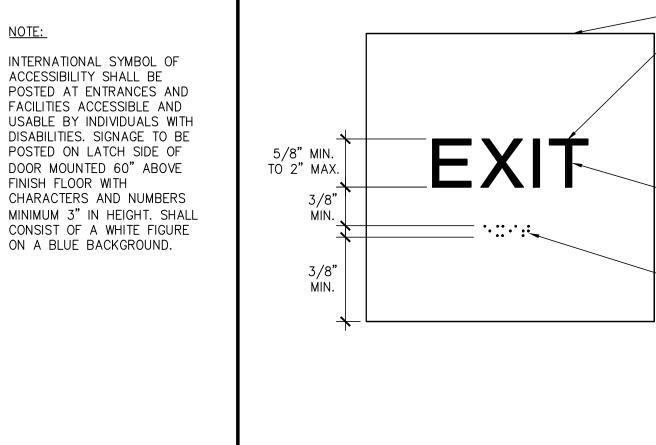


CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

DETAILS.

 SEE ENLARGED DETAILS THIS SHEET FOR SPECIFIC SIGNAGE





WITH EACH OTHER. (STANDARD COLOR: WHITE ON BLUE BACKGROUND, UNLESS APPROVED OTHERWISE). COLOR & CONTRAST OF SIGN TO BE DISTINCTLY DIFFERENT THAN COLOR & CONTRAST OF SANS-SERIF UPPERCASE CHARACTERS, RAISED 1/32" PER ANSI STANDARDS - CORRESPONDING GRADE II BRAILLE PER ANSI STANDARDS NOTE: SEE "SIGNS & IDENTIFICATION" NOTES ON ADA-NOTES SHEET FOR

CHARACTERS & BACKGROUND

OF SIGNS TO BE NON-GLARE

FINISH AND TO CONTRAST

TACTILE "EXIT" SIGN

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ADDITIONAL INFO.

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TENGLISH

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- . WHERE SEPARATE FACILITIES ARE PROVIDED FOR NON—DISABLED PERSONS OF EACH SEX. SEPARATE FACILITIES SHALL BE PROVIDED FOR PERSONS WITH DISABILITIES OF EACH SEX ALSO. WHERE UNISEX FACILITIES ARE PROVIDED FOR PERSONS WITHOUT DISABILITIES, AT LEAST ONE UNISEX FACILITY SHALL BE PROVIDED FOR PERSONS WITH DISABILITIES WITHIN CLOSE PROXIMITY TO
- 2. DOORWAYS LEADING TO MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. DOORWAYS LEADING TO WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER.
- 3. DOORWAYS LEADING TO UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" IN DIAMETER, WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER.
- 4. THE ABOVE GEOMETRIC (CIRCLE & TRIANGLE) SYMBOLS ON SANITARY FACILITY DOORS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.

SANITARY FACILITY FIXTURES & ACCESSORIES

THE NON-ACCESSIBLE FACILITY.

- 1. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17 INCHES AND A MAXIMUM OF 19 INCHES MEASURED TO THE TOP OF A MAXIMUM 2-INCH HIGH TOILET SEAT. WITH THE EXCEPTION THAT A 3-INCH HIGH SEAT SHALL BE PERMITTED ONLY IN ALTERATIONS WHERE THE EXISTING FIXTURE IS LESS THAN 15 INCHES HIGH.
- 2. URINALS SHALL BE FLOOR-MOUNTED OR WALL-HUNG. WHERE ONE OR MORE WALL-HUNG URINALS ARE PROVIDED. AT LEAST ONE WITH A RIM PROJECTING A MINIMUM OF 14 INCHES FROM
- THE WALL AND A MAXIMUM OF 17 INCHES ABOVE THE FLOOR SHALL BE PROVIDED. 3. LAVATORIES, WHEN LOCATED ADJACENT TO A SIDE WALL OR PARTITION, SHALL BE A MINIMUM OF 18 INCHES TO THE CENTERLINE OF THE FIXTURE.
- 4. ALL LAVATORIES THAT ARE DESIGNATED TO BE ACCESSIBLE SHALL BE MOUNTED WITH THE RIM OR COUNTER EDGE NO HIGHER THAN 34 INCHES ABOVE THE FINISHED FLOOR AND WITH A VERTICAL CLEARANCE MEASURED FROM THE BOTTOM OF THE APRON OR THE OUTSIDE BOTTOM EDGE OF THE LAVATORY OF 29 INCHES, REDUCING TO 27 INCHES AT A POINT LOCATED 8 INCHES BACK FROM THE FRONT EDGE. KNEE CLEARANCE BELOW THE LAVATORY SHALL EXTEND A MINIMUM OF 30 INCHES IN WIDTH BY 17 INCHES IN DEPTH. TOE CLEARANCE SHALL BE THE SAME WIDTH AS KNEE CLEARANCE AND SHALL BE A MINIMUM OF 9 INCHES ABOVE THE FINISHED FLOOR AND A MINIMUM OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY.
- 5. WATER CLOSET AND URINAL FLUSH VALVE CONTROLS SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44 INCHES ABOVE THE FLOOR.
- 6. LAVATORY FAUCET CONTROLS AND OPERATING MECHANISMS, SHALL BE OPERABLE WITH ONE HAND IN ACCORDANCE WITH CHAPTER 11B OF THE CBC AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
- 7. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET
- 8. THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS SHALL BE NO GREATER THAN 5-POUND-FORCE. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERABLE.
- 9. THE FORCE REQUIRED TO ACTIVATE LAVATORY FAUCET CONTROLS AND OPERATING MECHANISMS, SHALL BE NO GREATER THAN 5-POUND-FORCE. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS (PREFERABLE) ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10
- 10. HOT WATER AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- 11. A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY.
- 12. LAVATORY MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40 INCHES
- 13. WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FINISHED FLOOR.
- 14. TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL WITHIN 12 INCHES OF THE FRONT EDGE OF THE TOILET SEAT AND NO LOWER THAN 19 INCHES FROM THE FLOOR. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.
- 15. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL COMPLY WITH STATE AND LOCAL CODES.
- 16. TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 5 INCHES. WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24 INCHES OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48 INCHES AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.

GRAB BARS

- . GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ON ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT.
- 2. GRAB BARS SHALL BE SECURELY ATTACHED 33 INCHES ABOVE AND PARALLEL TO THE FLOOR, EXCEPT THAT WHERE A TANK-TYPE TOILET IS USED WHICH OBSTRUCTS PLACEMENT AT 33 INCHES, THE GRAB BAR MAY BE AS HIGH AS 36 INCHES.
- 3. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET STOOL AND WITH THE BACK END POSITIONED NO MORE THAN 12 INCHES FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36 INCHES LONG.
- 4. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4" TO 1-1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE
- 5. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS FASTENERS, AND MOUNTING
- DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS: BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE
- SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
- SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250-LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER HAS THE SMALLER ALLOWABLE LOAD.
- TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF A 250-LB POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF A 250-LB POINT LOAD. SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND
- SUPPORTING STRUCTURE. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.

S. A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY

SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

SINGLE ACCOMMODATION SANITARY FACILITIES

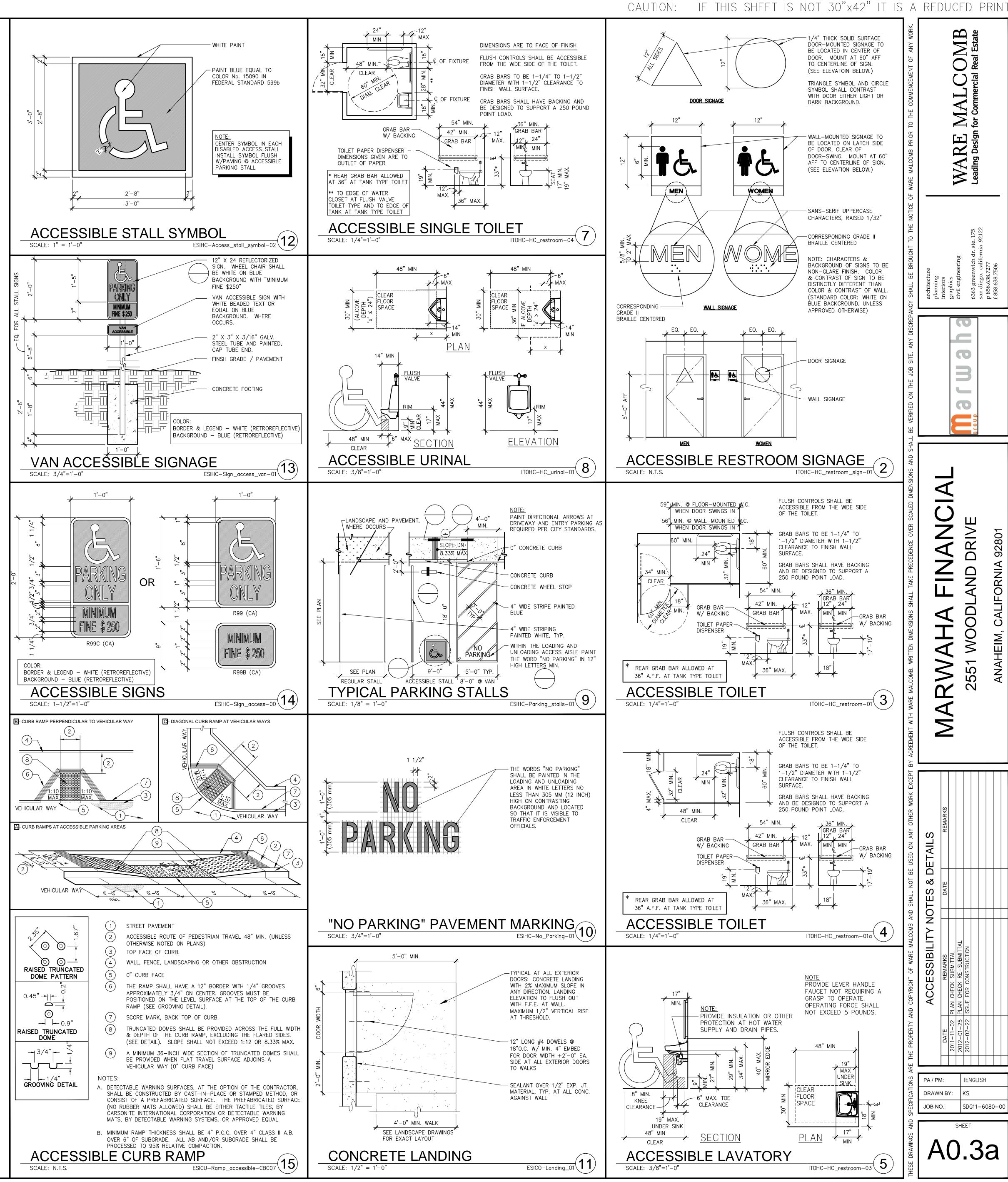
- NOTE: A SINGLE ACCOMMODATION SANITARY FACILITY IS DEFINED AS "A ROOM THAT HAS NOT MORE THAN ONE OF EACH TYPE OF SANITARY FIXTURE, IS INTENDED FOR USE BY ONLY ONE PERSON AT A 'IME, HAS NO PARTITION AROUND THE TOILET, AND HAS A DOOR THAT CAN BE LOCKED ON THE INSIDE BY THE ROOM OCCUPANT".
- 1. THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30" WIDE BY 48" LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE.
- 2. THERE SHALL BE IN THE ROOM A CLEAR FLOOR SPACE OF AT LEAST 60" IN DIAMETER, OR A T-SHAPED SPACE COMPLYING WITH FIGURES 11B-12(a) OR (b). NO DOOR SHALL ENCROACH INTO THIS SPACE FOR MORE THAN 12" EXCEPT FOR THE PANEL DOOR TO ANY WATER CLOSET COMPARTMENT IF THERE IS ONE.
- 3. THE WATER CLOSET SHALL BE LOCATED IN A SPACE WHICH PROVIDES A MINIMUM 28" WIDE CLEAR SPACE FROM A FIXTURE OR A MINIMUM 32" WIDE CLEAR SPACE FROM A WALL AT ONE SIDE. THE OTHER SIDE SHALL PROVIDE 18" FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL. A MINIMUM 48" OF CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.
- 4. ALL DOORS, FIXTURES AND CONTROLS SHALL BE ON AN ACCESSIBLE ROUTE WITH A MINIMUM CLEAR WIDTH OF 36" EXCEPT AT DOORS. IF A PERSON IN A WHEELCHAIR MUST MAKE A TURN AROUND AN OBSTRUCTION, THE MINIMUM CLEAR WIDTH OF THE ACCESSIBLE ROUTE SHALL BE AS SHOWN PER STATE AND LOCAL CODES.

SANITARY FACILITIES (cont.)

MULTIPLE ACCOMMODATION SANITARY FACILITIES

NOTE: A MULTIPLE ACCOMMODATION SANITARY FACILITY IS DEFINED AS "A ROOM THAT HAS MORE THAN ONE SANITARY FIXTURE, IS INTENDED FOR THE USE OF MORE THAN ONE PERSON AT A TIME, AND WHICH USUALLY IS PROVIDED WITH PRIVACY COMPARTMENTS OR SCREENS SHIELDING SOME

- FIXTURES FROM VIEW." THERE SHALL BE A CLEAR SPACE MEASURED FROM THE FLOOR TO A HEIGHT OF 27" ABOVE THE FLOOR, WITHIN THE SANITARY FACILITY ROOM, OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE WITH A DIAMETER NOT LESS THAN 60", OR CLEAR SPACE 56" BY 63" IN SIZE. OTHER THAN THE DOOR TO THE ACCESSIBLE TOILET COMPARTMENT, A DOOR, IN ANY POSITION, MAY ENCROACH INTO THIS
- SPACE BY NOT MORE THAN 12". 2. DOORS SHALL NOT SWING INTO THE FLOOR SPACE REQUIRED FOR ANY FIXTURE.
- 3. A WATER CLOSET FIXTURE LOCATED IN A COMPARTMENT SHALL PROVIDE A MINIMUM 28" WIDE CLEAR SPACE FROM A FIXTURE OR A MINIMUM 32" WIDE CLEAR SPACE FROM A WALL AT ONE SIDE OF THE WATER CLOSET. THE OTHER SIDE OF THE WATER CLOSET SHALL PROVIDE 18" FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL. GRAB BARS SHALL NOT PROJECT MORE THAN 3" INTO THE CLEAR SPACES AS SPECIFIED ABOVE. THE STALL SHALL BE A MINIMUM OF 60" WIDE.
- H. A MINIMUM 48" LONG CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET IF THE COMPARTMENT HAS AN END-OPENING DOOR. A MINIMUM 60" LONG CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET IF THE COMPARTMENT HAS A DOOR LOCATED AT THE SIDE. GRAB BARS SHALL NOT PROJECT MORE THAN 3" INTO THESE CLEAR SPACES.
- WATER CLOSET COMPARTMENTS SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WHEN LOCATED AT THE END AND 34" WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
- WHEN STANDARD COMPARTMENT DOORS ARE USED, WITH A MINIMUM 9" CLEARANCE FOR FOOTRESTS UNDERNEATH AND A SELF-CLOSING DEVICE, CLEARANCE AT THE STRIKE EDGE AS SPECIFIED IN PER STATE AND LOCAL CODES IS NOT REQUIRED.
- THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING, OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST.
- . EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES AND THE SPACE IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48 INCHES AS MEASURED AT RIGHT ANGLES TO COMPARTMENT DOOR IN ITS CLOSED POSITION.



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ge•o•spa•tial• ist (foo-spoors stift) st) n. - The professional occupation, or research, devoted to geometric measurements, making scrupulous maps of dirt, and other cool stuff. WWW. ATLASGEOSPATIAL. COM P.O. BOX 6100, OCEANSIDE, CA 92052-6100 PHONE: 661-340-7123 FAX: 866.827.4937

WARE Leading Design

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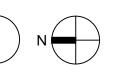
EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION TO BE REMOVED



A6.3

9'-3"



POWER & SIGNAL PLAN

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

2 N



POWER & SIGNAL PLAN NOTES

- A ALL FURNITURE TO BE PROVIDED AND INSTALLED BY TENANT. VERIFY EXACT LOCATIONS WITH FURNITURE DEALER PRIOR TO INSTALLATION OF RELATED POWER & SIGNAL CONNECTIONS.
- B SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER REQUIREMENTS
- C FLOOR POWER/DATA. CONFIRM DEVICE TYPES AND LOCATIONS WITH A-V VENDOR AND FURNITURE VENDOR. TO BE CENTERED ON TABLE IN THIS ROOM,
- D EXISTING ELECTRICAL OUTLET TO REMAIN.
- E VERIFY POWER REQUIREMENTS FOR USER PROVIDE EQUIPMENT PRIOR TO INSTALLATION OF RELATED POWER & SIGNAL CONNECTIONS.
- F COORDINATE MOUNTING HEIGHT WITH A-V VENDOR.

PARTITION PLAN NOTES

SEE SHEET A0.2 FOR GENERAL NOTES

- 1 PROVIDE BACKING SUPPORT BEHIND WALL-MOUNTED EQUIPMENT LOCATIONS. 2 NICHE WALL FOR FLATSCREEN TV INSTALLATION. PROVIDE AIR CLEARANCE AROUND TOP, BOTTOM AND SIDES OF THE SCREEN. MINIZE GAP AS MUCH AS POSSIBLE TO CREATE A FLUSHED LOOK. VERIFY AND LOCATION PRIOR
- TO CREATING NICHE. 3 PROVIDE PLASTIC LAMINATE RECEPTION DESK WITH GLASS TRANSACTION COUNTER. SEE ELEVATIONS ON SHEET A6.2 FOR DETAILS.
- 4 PROVIDE UPPER & LOWER CABINETRY WITH DRAWERS, BACK SPLASH AND DUAL-BASIN STAINLESS STEEL SINK WITH GARBAGE DISPOSAL.
- 5 REFRIGERATOR TO BE PROVIDED BY TENANT AND INSTALLED BY GC. PROVIDE RECESSED WATER LINE FOR ICE MAKER. GC TO INSTALL COORDINATE INSTALLATION PER MANUFACTURER RECOMMENDED INSTALLATION. 6 DISHWASHER TO BE PROVIDED AND INSTALLED BY GC. ASKO;
- D5122aADA STAINLESS STEEL. GC TO COORDINATE INSTALLATION PER MANUFACTURER RECOMMENDED INSTALLATION GUIDELINE. 7 UNDER-COUNTER REFRIGERATOR TO BE PROVIDED BY TENANT AND
- INSTALLED BY GC. 8 LOCATION OF COFFEE MAKER; TO BE PROVIDED AND INSTALLED BY TENANT. PROVIDE RECESSED WATER LINE.
- 9 LOCATION OF MICROWAVE; TO BE PROVIDED AND INSTALLED BY
- 10 70" WALL MOUNT FLATSCREEN TV TO BE PROVIDED BY TENANT.
- 11 SAW-CUT CORE EXISTING FLOOR THIS AREA AS REQUIRED FOR NEW
- 12 PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER BY POTTER-ROEMER. CABINET TO BE ALTA SERIES #7033-DV, ALUMINUM WITH CLEAR FINISH, WITH #3005 EXTINGUISHER, 2A:10B:C. SEE DETAIL 15 ON SHEET A8.2.
- 13 OWNER PROVIDED STOVE; GC TO COORDINATE INSTALLATION PER MANUFACTURER RECOMMENDED INSTALLATION GUIDELINE.
- 14 PROVIDE GLASS WRITING SURFACE. GLASS TO BE ATTACHED TO WALL WITH BRUSHED NICKEL STANDOFF AT SIDES AND CORNERS.
- 15 NEW ALUMINUM AND GLASS STOREFRONT SYSTEM TO REPLACE EXISTING. STRUCTURAL COLUMNS AND HEADER TO REMAIN.
- 16 EXISTING ROOF ACCESS LADDER TO REMAIN.
- 17 PROVIDE MOTORIZED, BLACKOUT MECHOSHADESIN IN THIS ROOM. PROVIDE LIGHT SEAL CHANNELS. TIE IN TO ROOM'S AUDIO-VISUAL SYSTEM, OR CONTROL FROM SWITCH(s) NEAR LIGHT SWITCHES. MECHOSHADE SYSTEMS: THERMOVEIL PRIVACY SHADECLOTH 0900 SERIES "0904 BLACK/BROWN", 0% OPENNESS FACTOR.
- 18 STAIN WOOD CAP AND WOOD MULLION TO MATCH PL-2 "KONA BLEND". TYPICAL THROUGHOUT, U.O.N.
- 19 REMOVE WOOD CAP THROUGHOUT CONFERENCE ROOM.
- 20 STAIN WOOD MULLION TO MATCH PL-2 "KONA BLEND".
- 21 PROVIDE NEW, FIXED WINDOWS AT ALL EXTERIOR ELOBBY/RECEPTION #100 WINDOWS; JELD-WEN OR APPROVED EQUAL. ARCHITECT TO APPROVE. BID ALTERNATE: CHANGE OUT ALL EXTERIOR WINDOWS TO JELD-WEN OR APPROVED EQUAL.

LEGENDS

SYMBOL LEGEND

INDICATES DOOR NUMBER

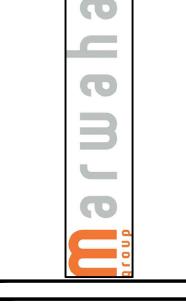
NOTE: SEE DOOR SCHEDULE ON SHEET A7.1.

WALL LEGEND

EXISTING PARTITION

FULL HEIGHT PARTITION TO 6" ABOVE CEILING

1 RE 1 Design



PA / PM: DRAWN BY:

TENGLISH JOB NO.: SDG11-6080-00

POWER & SIGNAL LEGEND

EXISTING COMBINATION TELEPHONE/DATA OUTLET TO REMAIN.

EXISTING 110v. DUPLEX RECEPTACLE TO REMAIN.

NEW 110v. DUPLEX RECEPTACLE, MOUNTED VERTICALLY AT +18" A.F.F.,

U.O.N. "C" DESIGNATES RECESSED TYPE SOCKET. ➡N NEW 110v. DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER OR SPLASH.

₩ NEW 110v. FOURPLEX RECEPTACLE, MOUNTED AT +18" A.F.F., U.O.N.

₩ NEW 110v. FOURPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER OR SPLASH.

NEW 110v. FOURPLEX RECEPTACLE, MOUNTED FLUSH IN FLOOR BOX WITH FITTINGS. PROVIDE RATING AS REQUIRED. "P" DESIGNATES PEDESTAL TYPE COMBINATION TELEPHONE/DATA OUTLET MUD RING, WALL-MOUNTED AT 18"

A.F.F., U.O.N. PROVIDE PULL ROPE TO ABOVE ACCESSIBLE CEILING SPACE. COMBINATION TELEPHONE/DATA OUTLET MUD RING, WALL-MOUNTED 6" ABOVE COUNTER OR SPLASH. PROVIDE PULL ROPE TO ABOVE ACCESSIBLE

AUDIO VIDEO OR COAX CABLE JUNCTION BOX WITH 1'-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.

VIDEO CONNECTION. PROVIDE 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE.

NEW 110v. ... A.F.F., U.O.N. NEW 110v. CLOCK OUTLET RECEPTACLE, MOUNTED VERTICALLY AT +18"

COMBINATION TELEPHONE/DATA OUTLET FLUSH IN FLOOR BOX WITH FITTINGS. PROVIDE FIRE RATING AS REQUIRED. "P" DESIGNATES PEDESTAL TYPE DEVICE. © COMBINATION 110v. DUPLEX RECEPTACLE/DATA OUTLET, MOUNTED FLUSH IN FLOOR BOX WITH FITTINGS FITTINGS. PROVIDE RATING AS REQUIRED.

JUNCTION BOX, FLUSH-MOUNTED IN FLOOR WITH FLEXIBLE CONNECTION TO PRE-WIRED FURNITURE SYSTEM. SEE ELECTRICAL DRAWINGS.

COMBINATION TELEPHONE/DATA OUTLET, FLUSH-MOUNTED IN FLOOR WITH FLEXIBLE CONNECTION TO PRE-WIRED FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS WITH FURNITURE MANUFACTURER PRIOR TO

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FINISH PLAN

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

2

FINISH LEGEND

WALL FINISHES P ITEM: MFR: COLOR

PAINT - TYPICAL THROUGHOUT, U.O.N. SHERWIN WILLIAMS IVORY LACE / SW7013 COLOR/NO:

FINISH: EGGSHELL P ITEM: PAINT - ACCENT 2 MFR: BENJAMIN MOORE COLOR/NO: CARAMEL LATTE / 2166-20 FINISH: EGGSHELL

P ITEM:
MFR: PAINT - ACCENT COLOR/NO: FINISH: EGGSHELL

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING PAINT SEE www.waremalcomb.com/ws/09900-001.pdf

MFR: LUNAR DUST 114 COLOR/NO:

SIZE: STYLE: STRAIGHT @ CARPET / COVED @ RESILIENT FLOORING

RB ITEM:
MFR:
COLOR RUBBER BASE, DECORATIVE - CONFERENCE COLOR/NO: SIZE: STYLE: STRAIGHT @ CARPET / COVED @ RESILIENT FLOORING

GWM ITEM:

1 MFR: GLASS WALL MOSAIC VOGUEBAY (DALTILE) MFR: GREAT WALL A10-R; MG01 OPTIC WHITE, GLOSSY COLOR/NO: SIZE: 12 3/4"x 11 3/8" SHT GROUT: GWM ITEM: GLASS WALL MOSAIC - RESTROOMS

VOGUEBAY (DALTILE)

ICEBERG MOSAIC MBS109

SIZE: 12"x12" GROUT: TBD CWT ITEM:
MFR:
COLOR CERAMIC WALL TILE VOGUEBAY (DALTILE) COLOR/NO: PERLINO (POLISHED) SIZE:

MFR:

GROUT:

COLOR/NO:

CTB ITEM: CERAMIC TILE BASE MFR: STONE SOURCE COLOR/NO: TRANQUILITY CREMA LUNA "POLISHED" SIZE: 4"x12" (CUT FROM 12X12) GROUT: MAPEI #14 BISCUIT

MAPEI #14 BISCUIT

CTB ITEM:
MFR: CERAMIC TILE BASE STONE SOURCE COLOR/NO: TRANQUILITY CREMA LUNA "MATTE" 4"x12" (CUT FROM 12X12) GROUT: MAPEI #14 BISCUIT

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING CERAMIC TILE SEE www.waremalcomb.com/ws/09310-001.pdf

FLOOR FINISHES

MFR:

SIZE: GROUT:

GROUT:

C ITEM: CARPET - TYPICAL THROUGHOUT, U.O.N. 1 MFR: SHAW CONTRACT GROUP STYLE: MINIMAL TILE #59164 MARGIN #64155 COLOR/NO:

INSTALLATION: GLUE-DÖWN. SEE NOTES FOR INSTALLATION METHOD. CARPET - ACCENT _ 2 | MFR: SHAW CONTRACT GROUP STYLE: ABSTRACT EDGE TILE #59145

COLOR/NO: PAPRIKA MARGIN #67156

INSTALLATION: GLUE-DOWN. SEE NOTES FOR INSTALLATION METHOD. FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING

CARPET SEE www.waremalcomb.com/ws/09680-001.pdf

CERAMIC FLOOR TILE STONE SOURCE COLOR/NO: TRANQUILITY CREMA LUNA "POLISHED" MAPEI #14 BISCUIT

CFT ITEM: CERAMIC FLOOR TILE - BREAK AND RESTROOMS 2 MFR: STONE SOURCE TRANQUILITY CREMA LUNA "MATTE" COLOR/NO: SIZE:

MAPEI #14 BISCUIT

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING

CERAMIC TILE SEE www.waremalcomb.com/ws/09310-001.pdf STONE FLOOR TILE MARBLE ARIZONA TILE, CONTACT ASHA PARKER -

APARKER@ARIZONATILE.COM , CELL: 619.838.8825 MC EMPERADOR DARK (ARCHITECT TO PROVIDE CONTROL SAMPLE FOR COLOR RANGE) SIZE: 12"x12"X3/8" FINISH: POLISHED GROUT:

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING STONE FLOOR COVERING SEE www.waremalcomb.com/ws/09638-001.pdf

VCT ITEM: VINYL COMPOSITION TILE - FIELD TILE MFR: ARMSTRONG COLOR/NO:

SIZE: MISCELLANEOUS FINISHES

GLASS - RECEPTION TRANSACTION COUNTER GL ITEM: 1 MFR: COLOR/NO:

KONA BLEND #WZ0028PV

PLASTIC LAMINATE - RECEPTION WORK COUNTER NEVAMAR SMOKY WHITE #S7027T COLOR/NO: PL ITEM: PLASTIC LAMINATE - VERTICAL SURFACES 、2丿 MFR:

PL ITEM: PLASTIC LAMINATE - ACCENT 3 / MFR: CHEMETAL LINEAR ALUMINUM COLOR/NO:

COLOR/NO:

PL ITEM:

4 MFR:

COLOR / PLASTIC LAMINATE - RESTROOM PARTITION CHEMETAL COLOR/NO: KALEIDOSCOPE #407 SOLID SURFACE MATERIAL BREAK ROOM COUNTER

CAESARSTONE QUARTZ SURFACES COLOR/NO: #1141 "WHITE" - PENDING OWNER APPROVAL SOLID SURFACE MATERIAL - BREAK ROOM ISLAND COUNTE 2 MFR: AMERICAN STONE COMPANY COLOR/NO: ODYSSEY ENGINEERED MARBLE "CRYSTAL WHITE" AMERICAN STONE COMPANY

SSM ITEM:
MFR:
COLOR /N SOLID SURFACE MATERIAL - RESTROOM COUNTER AMERICAN STONE COMPANY COLOR/NO: ODYSSEY ENGINEERED MARBLE "CALCATTA"

CONTACT LIST

AMERICAN STONE COMPANY MANUFACTURER: (818) 982-7770 PHONE NUMBER:

ARIZONA TILE ASHA PARKER - APARKER@ARIZONATILE.COM CONTACT: PHONE NUMBER: (619) 838-8825

MANUFACTURER: CAESARSTONE QUARTZ SURFACES CONTACT: KYLE ROGALSKI PHONE NUMBER: (818) 394-6000

SEE SHEET A0.2 FOR GENERAL NOTES

REFLECTED CEILING NOTES

1 SUSPENDED CEILING SYSTEM THROUGHOUT TO BE ARMSTRONG OPTIMA 2'x2'. TEGULAR EDGE, WITH 9/16" SUPRAFINE HEAVY DUTY PRELUDE WHITE GRID. INSTALL AT 10'-0" AFF - VERIFY FIELD CONDITION TO SEE IF THIS IS POSSIBLE. INSTALL CEILING AS HIGH AS POSSIBLE.

2 PROVIDED DRYWALL CEILING AT 9'-0" A.F.F.

3 CENTER LIGHT OVER NEW CONFERENCE TABLE.

4 ALL DOWNLIGHTS ARE TO BE DIMMABLE IN THIS ROOM. 5 EXISTING CEILING TO REMAIN.

REFLECTED CEILING LEGEND

NEW AREA OF 2'x2' SUSPENDED CEILING GRID & TILES: ARMSTRONG OPTIMA, 9/16" SQUARE TEGULAR, WHITE.

NEW 5/8" TYPE "X" GYPSUM BOARD CEILING or SOFFIT -USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED.

NEW 1'x4' PENDANT-HUNG: ZANEEN; SPEED CONTROL MIX MODEL #L313510S, SILVER. ALT 1: NEW 2'x4' INDIRECT FLUORESCENT LIGHT FIXTURE BY

LIGHTOLIER; COFFAIRE II RECESSED FLUORESCENT- CFH2GPF232 NEW 2'x2' INDIRECT FLUORESCENT LIGHT FIXTURE. ARCHITECT TO

NEW RECESSED DOWNLIGHT: ZANEEN - CAVE RECESSED L363220C, ALT #1: CALCULITE MATRIX 4 1/2" X 4 1/2"

ALT #2: CALCULITE HID DOWNLIGHT #C6E170VM

SWITCH - DECORA

EXISTING EXIT SIGN TO REMAIN.

NEW CEILING-MOUNTED EXIT SIGN W/ BATTERY BACKUP, SHADED QUADRANT INDICATES FACE OF LETTERING, SIGN TO INCLUDE DIRECTIONAL ARROW AS INDICATED - SEE ELEC. DWGS.

NOTE: EXIT SIGNS SHALL BE SELF-LUMINOUS TYPE OR ELECTRICALLY ILLUMINATED & ENERGIZED FROM SEPARATE CIRCUITS, ONE OF WHICH SHALL BE FROM STORAGE BATTERIES OR AN ON-SITE GENERATOR.

NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

FINISH PLAN NOTES

*** LEAD TIMES FOR SOME OF THE FINISHES CAN TAKE UP TO 8 WEEKS. GC TO CONTACT DISTRIBUTOR AS SOON AS POSSIBLE TO ENSURE AVAILABILITY OF PRODUCTS TO MEET CONSTRUCTION SCHEDULE.

A ALL ROOMS TO RECEIVE PAINT (P-1), RUBBER BASE (RB-1) AND CARPET

(C−1), U.O.N. B PAINT IN THIS ROOM TO BE SEMI-GLOSS.

C GYP. BD. SOFFIT/CEILING TO RECEIVE PAINT (P-1)

D | SEE ENLARGED RESTROOM SHEETS FOR WALL FINISHES. E SEE MILLWORK ELEVATIONS FOR FINISHES.

F EXISTING FINISHES TO REMAIN IN THIS ROOM. PROVIDE WOOD PANELING IN THE ENTIRE ROOM, UP TO 4'-0" . STAIN TO MATCH PL-2 "KONA BLEND". SEE ELEVATION _____ FOR DETAILS.

H | INSTALL CARPET "C-1" IN A BASKETWEAVE PATTERN AS SHOWN ON PLAN, FOR ALL OFFICES. PATTERN TO BE CENTERED IN ROOM.

INSTALL CARPET "C-1" IN A MONOLITHIC PATTERN AS SHOWN ON PLAN, FOR OPEN OFFICE AND CONFERENCE ROOM.

SYMBOLS LEGEND

INDICATES LINE OF FLOOR TRANSITION

INDICATES LOCATION OF NON-TYPICAL WALL FINISH

REF

PA / PM: TENGLISH DRAWN BY: JOB NO.: SDG11-6080-00

 $\left\langle \begin{array}{c} \mathbb{R}\mathbb{B} & \mathbb{P} \\ \mathbb{1} & \mathbb{1} \end{array} \right\rangle$ OFFICE — 105

SEE SHEET A0.2 FOR GENERAL NOTES NOTE: ALL DIMENSIONS & CALLOUTS SEE SHEET A0.3 FOR ADA RESTROOM NOTES & DETAILS TYPICAL FOR EACH ROOM, U.O.N.

NOTES ARE FOR ALL RESTROOM SHEETS; NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.

PLAN SPECIFIC NOTES

1 WATER CLOSET - FULLY ACCESSIBLE, FLOOR-MOUNTED FLUSH-TANK. (SEE

PLUMBING DRAWINGS FOR SPECIFICATIONS.) 1a WATER CLOSET - REGULAR HEIGHT, FLOOR-MOUNTED FLUSH TANK. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

2 URINAL — WALL-MOUNTED WATERLESS URINAL. INSTALL AT BOTH REGULAR & ACCESSIBLE HEIGHTS. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

3 LAVATORY — FULLY ACCESSIBLE, WALL—HUNG, SELF—RIMMING, PORCELAIN SINK WITH WRIST BLADE FAUCET CONTROLS. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

3a LAVATORY - FULLY ACCESSIBLE, WALL-HUNG, SELF-RIMMING, PORCELAIN SINK WITH WRIST BLADE FAUCET CONTROLS. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

4 LAVATORY - FULLY ACCESSIBLE, WALL-HUNG COUNTER. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

5 TOILET PARTITIONS - FLOOR-MOUNTED PARTITIONS BY GLOBAL, WITH PLASTIC LAMINATE FINISH. (SEE SHEET A5.1 FOR PLASTIC LAMINATE SPECIFICATION.) PROVIDE HANDICAP—RATED COAT HOOKS & STOPS AT ACCESSIBLE STALLS. PROVIDE AN AUTO—CLOSING DEVICE AND "U"-SHAPED HANDLES ON BOTH OF ALL STALLS.

6 42" GRAB BAR - TOILET COMPARTMENT SIDE GRAB BAR, BOBRICK B-6806x42, 42"L X 1-1/2" DIAMETER GRAB-BAR WITH BOBRICK B-2583 CONCEALED ANCHOR PLATES.

36" GRAB BAR — TOILET COMPARTMENT REAR GRAB BAR, BOBRICK B- 6806×36 , 36L" X 1-1/2" DIAMETER GRAB-BAR WITH BOBRICK B-2583 CONCEALED ANCHOR PLATES.

8 SOAP DISPENSER — LAVATORY MOUNTED, BOBRICK B—8221. MOUNTED IN COUNTER TOP ADJACENT TO LAVATORY.

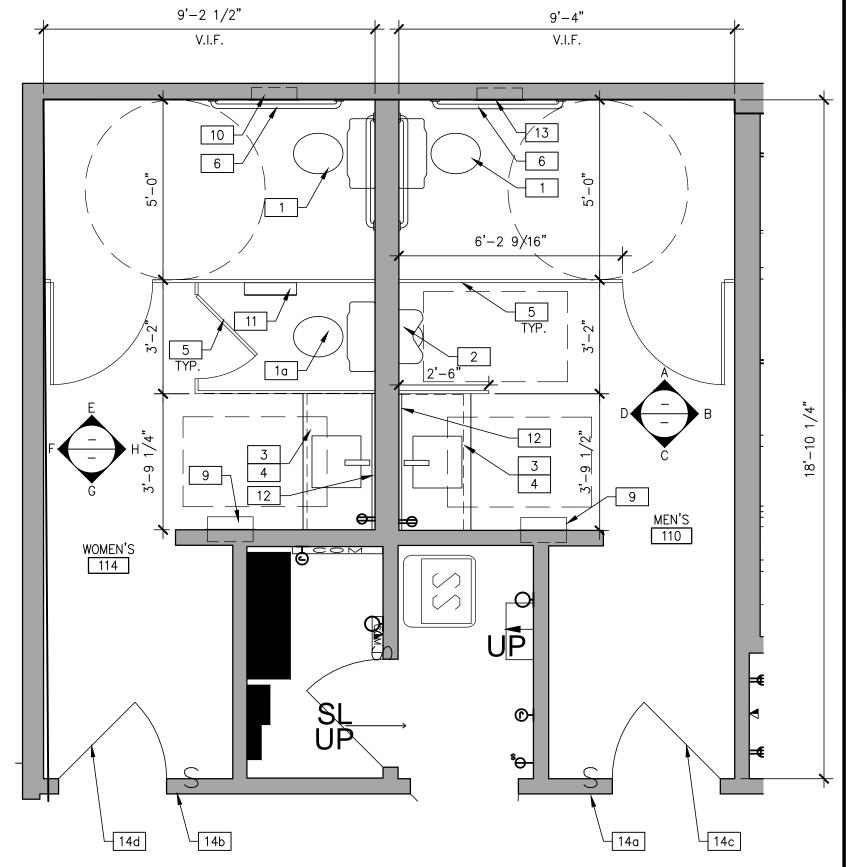
9 PAPER TOWEL DISPENSER & WASTE RECEPTACLE, RECESSED - BOBRICK

TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER, RECESSED — BOBRICK B—3574. 11 TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL & TOILET

TISSUE DISPENSER, PARTITION MOUNTED - BOBRICK B-3579. (SERVES ONE TOILET COMPARTMENT.) 12 MIRROR AT SINK - FULL HEIGHT x FULL WIDTH FIRST QUALITY MIRROR WITH

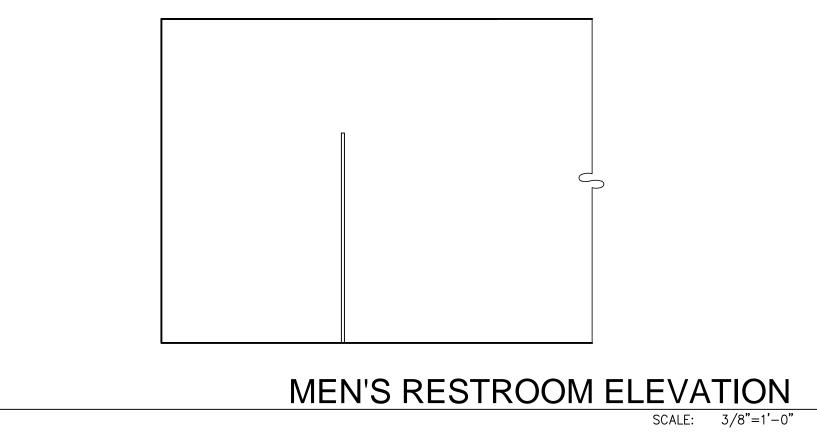
TOILET SEAT COVER DISPENSER & TOILET TISSUE DISPENSER, RECESSED - BOBRICK B-3474.

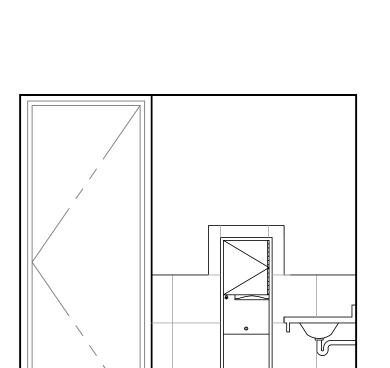
14 ADA SIGNAGE FOR WALLS AND DOORS. SEE DETAIL 2-9 ON SHEET A0.3a. MEN'S WALL-MOUNTED SIGN
WOMEN'S WALL-MOUNTED SIGN MEN'S DOOR-MOUNTED SIGN d) WOMEN'S DOOR-MOUNTED SIGN



ENLARGED RESTROOM PLAN

WOMEN'S RESTROOM ELEVATION



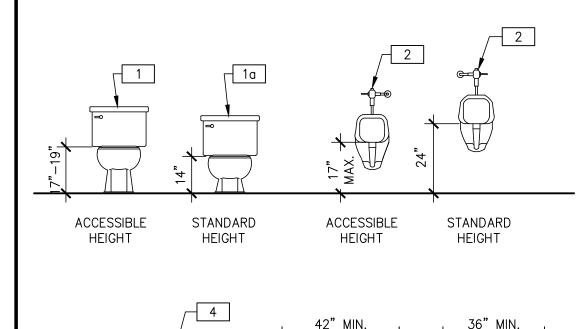


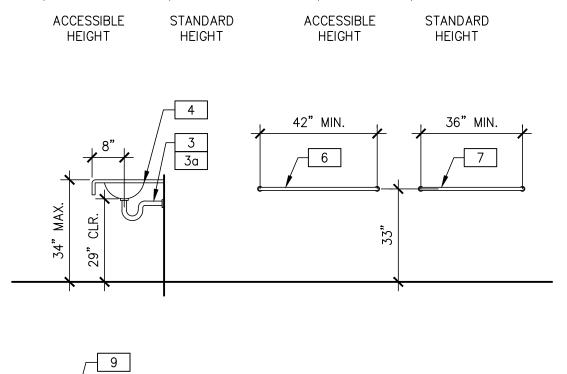
MEN'S RESTROOM ELEVATION

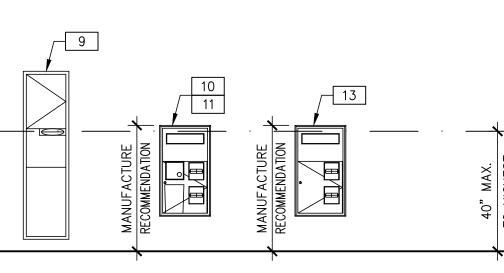
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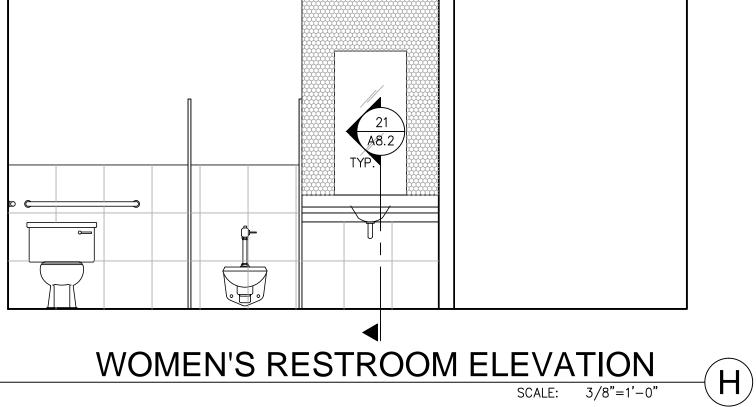
MEN'S RESTROOM ELEVATION

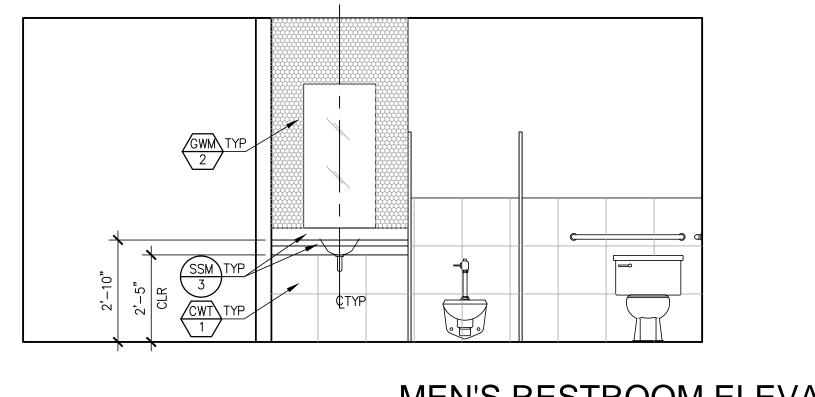












WOMEN'S RESTROOM ELEVATION

SCALE: 3/8"=1'-0" WOMEN'S RESTROOM ELEVATION

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

MALC for Commercial

WARE Leading Design

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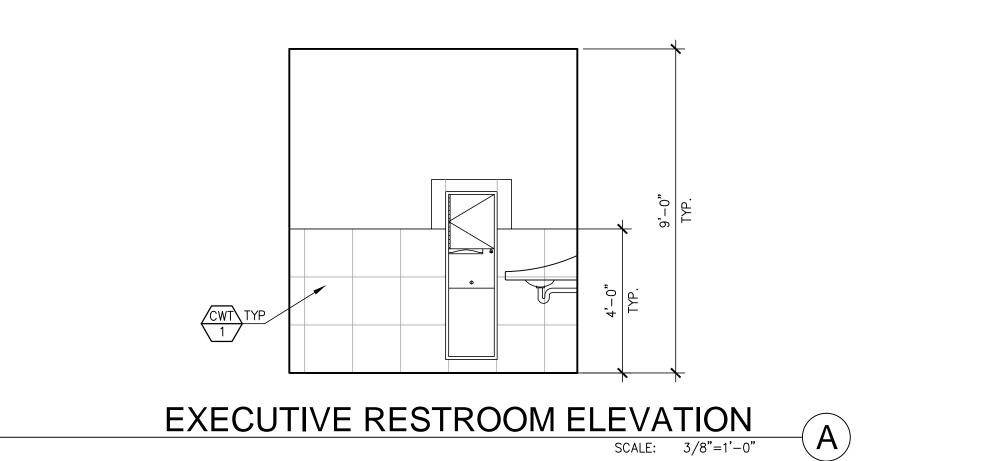
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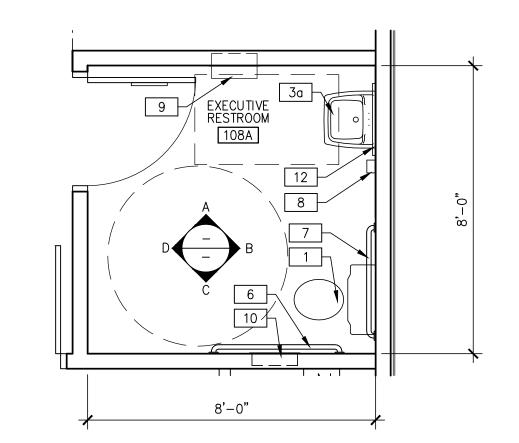
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MEN'S RESTROOM ELEVATION

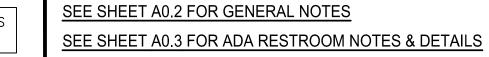
SCALE: 3/8"=1'-0"

NOTE: ALL DIMENSIONS & CALLOUTS TYPICAL FOR EACH ROOM, U.O.N.









FOR SPECIFICATIONS.)

PLAN SPECIFIC NOTES

NOTES ARE FOR ALL RESTROOM SHEETS; NOT ALL NOTES ARE APPLICABLE TO THIS SHEET.

- 1 WATER CLOSET FULLY ACCESSIBLE, FLOOR-MOUNTED FLUSH-TANK. (SEE
- PLUMBING DRAWINGS FOR SPECIFICATIONS.) 1a WATER CLOSET - REGULAR HEIGHT, FLOOR-MOUNTED FLUSH TANK. (SEE
- PLUMBING DRAWINGS FOR SPECIFICATIONS.) 2 URINAL - WALL-MOUNTED WATERLESS URINAL. INSTALL AT BOTH REGULAR & ACCESSIBLE HEIGHTS. (SEE PLUMBING DRAWINGS
- FOR SPECIFICATIONS.) 3 LAVATORY - FULLY ACCESSIBLE, WALL-HUNG, SELF-RIMMING, PORCELAIN SINK WITH WRIST BLADE FAUCET CONTROLS. (SEE PLUMBING DRAWINGS
- 3a LAVATORY FULLY ACCESSIBLE, WALL-HUNG, SELF-RIMMING, PORCELAIN SINK WITH WRIST BLADE FAUCET CONTROLS. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

PLASTIC LAMINATE FINISH. (SEE SHEET A5.1 FOR PLASTIC LAMINATE SPECIFICATION.) PROVIDE HANDICAP-RATED COAT HOOKS & STOPS AT

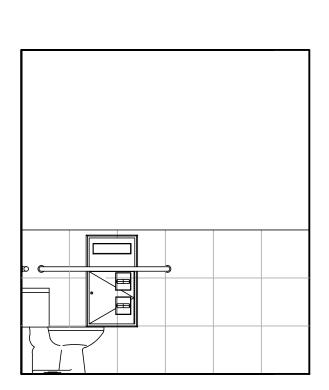
- 4 PLASTIC LAMINATE COUNTER TOP WITH 4" HIGH BACKSPLASH & EASED FRONT EDGE. (SEE SHEET A5.1 FOR LAMINATE SPECIFICATION.) 5 TOILET PARTITIONS - FLOOR-MOUNTED PARTITIONS BY GLOBAL, WITH
- ACCESSIBLE STALLS. PROVIDE AN AUTO-CLOSING DEVICE AND "U"-SHAPED HANDLES ON BOTH OF ALL STALLS. 6 42" GRAB BAR - TOILET COMPARTMENT SIDE GRAB BAR, BOBRICK
- B-6806x42, 42"L X 1-1/2" DIAMETER GRAB-BAR WITH BOBRICK B-2583 CONCEALED ANCHOR PLATES. 7 36" GRAB BAR - TOILET COMPARTMENT REAR GRAB BAR, BOBRICK B-6806x36, 36L" X 1-1/2" DIAMETER GRAB-BAR WITH BOBRICK B-2583 CONCEALED ANCHOR PLATES.
- 8 SOAP DISPENSER LAVATORY MOUNTED, BOBRICK B—8221. MOUNTED IN COUNTER TOP ADJACENT TO LAVATORY.
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- TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER, RECESSED BOBRICK B—3574.
- 11 TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER, PARTITION MOUNTED - BOBRICK B-3579. (SERVES ONE TOILET COMPARTMENT.)
- 12 MIRROR AT SINK FULL HEIGHT x FULL WIDTH FIRST QUALITY MIRROR WITH BEVELED EDGES.
- TOILET SEAT COVER DISPENSER & TOILET TISSUE DISPENSER, RECESSED BOBRICK B-3474.
- 14 ADA SIGNAGE FOR WALLS AND DOORS. SEE DETAIL 2—9 ON SHEET A0.3a.
 a) MEN'S WALL—MOUNTED SIGN WOMEN'S WALL-MOUNTED SIGN MEN'S DOOR-MOUNTED SIGN d) WOMEN'S DOOR-MOUNTED SIGN





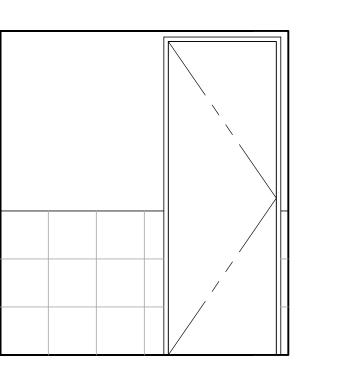
EXECUTIVE RESTROOM ELEVATION

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



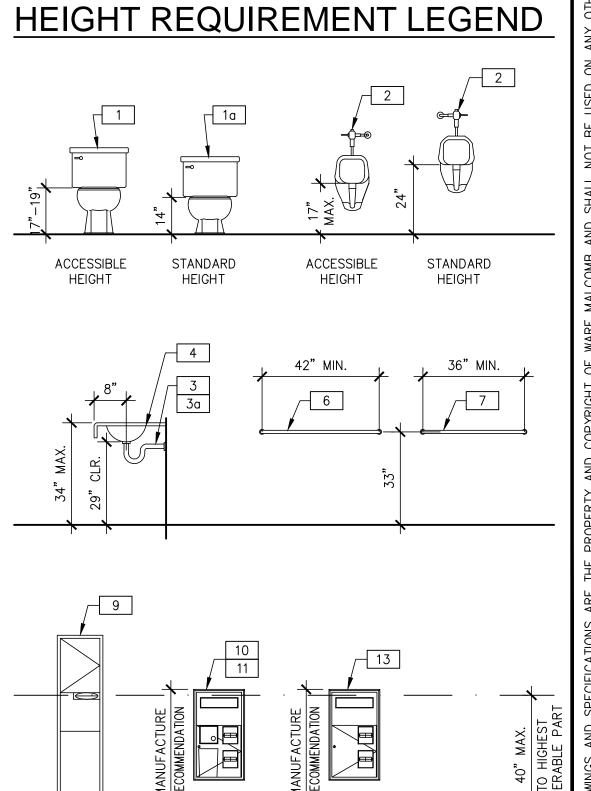
EXECUTIVE RESTROOM ELEVATION

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



EXECUTIVE RESTROOM ELEVATION

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



MALC for Commercial

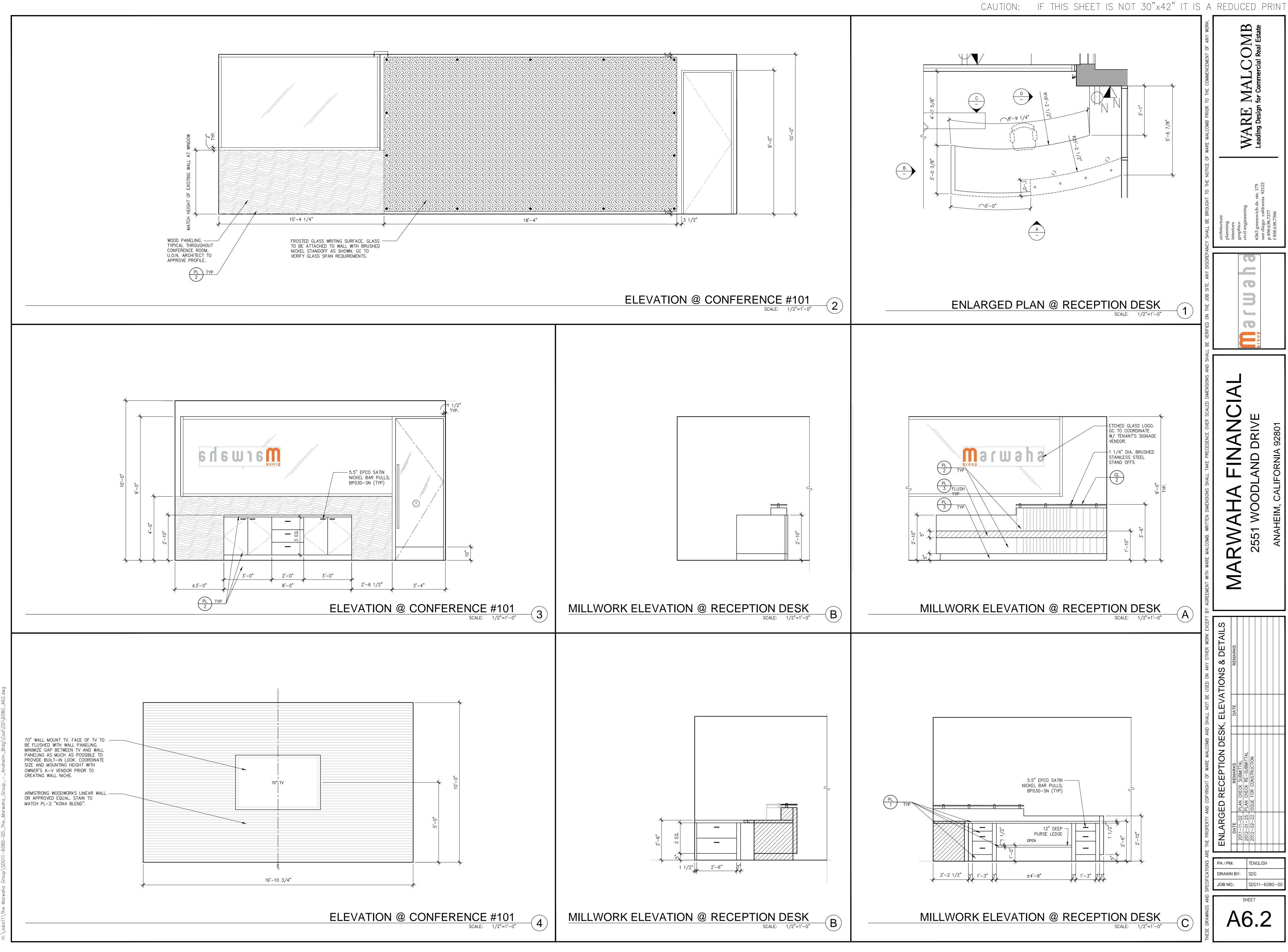
WARE Leading Design

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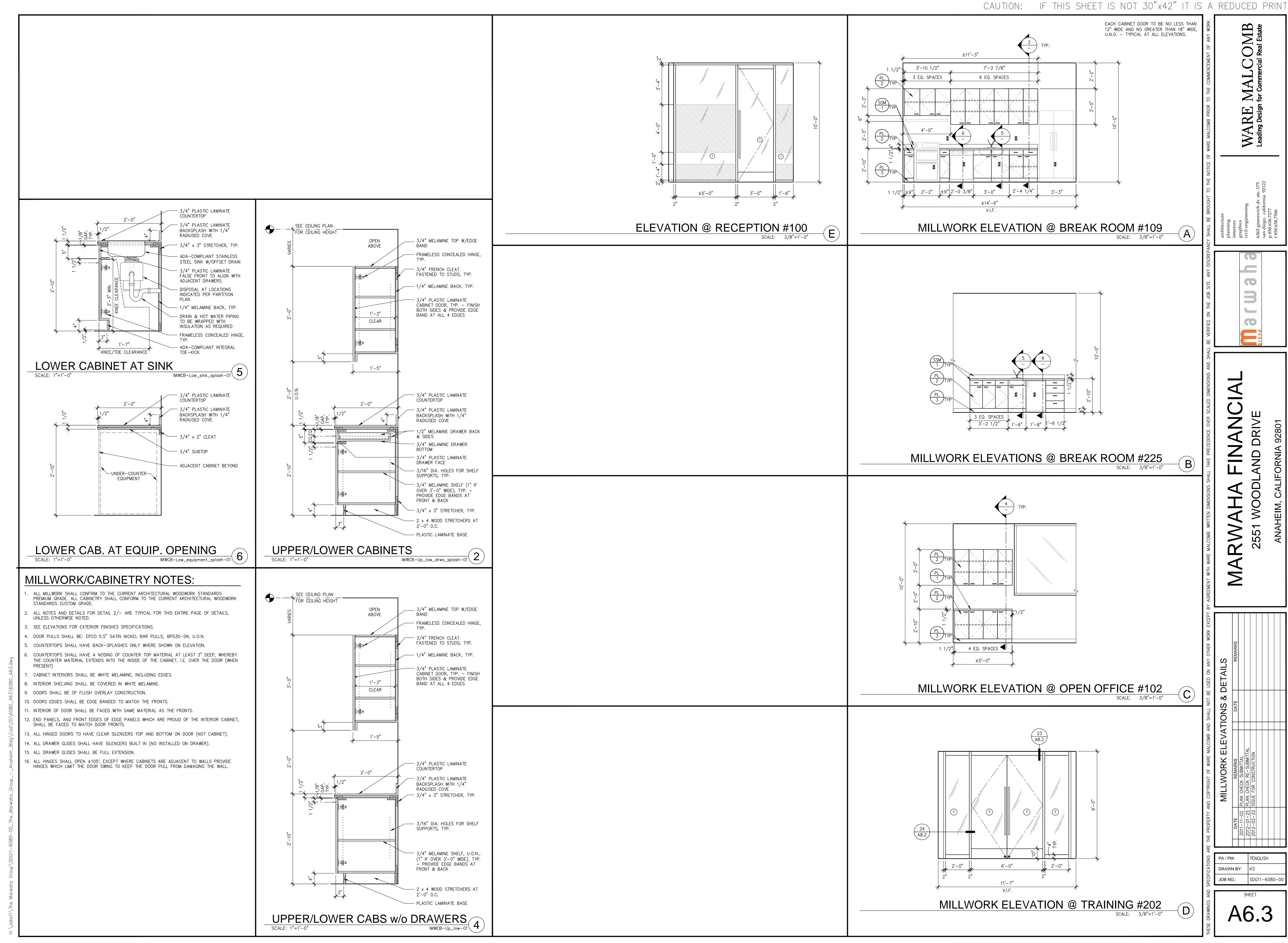
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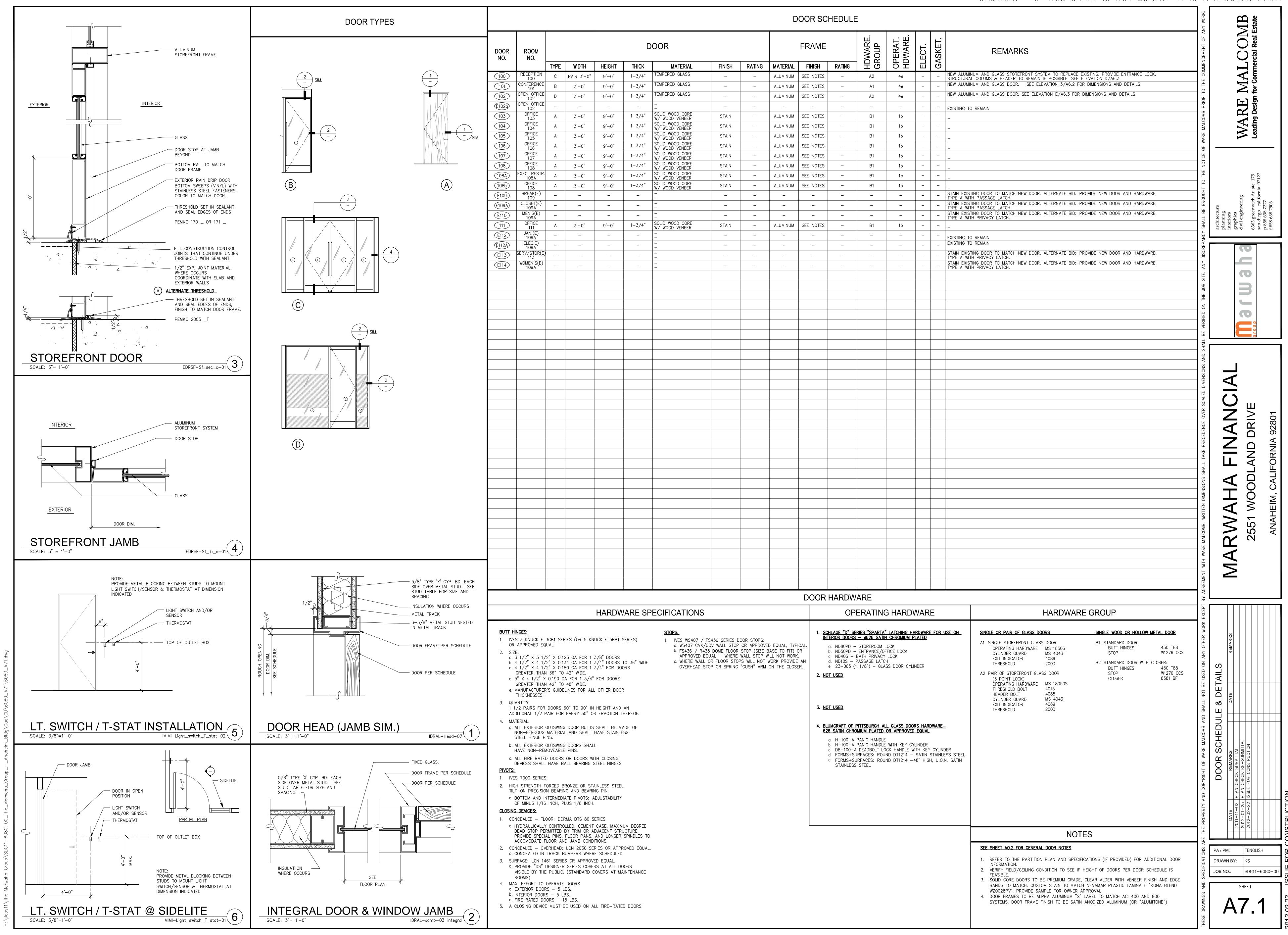
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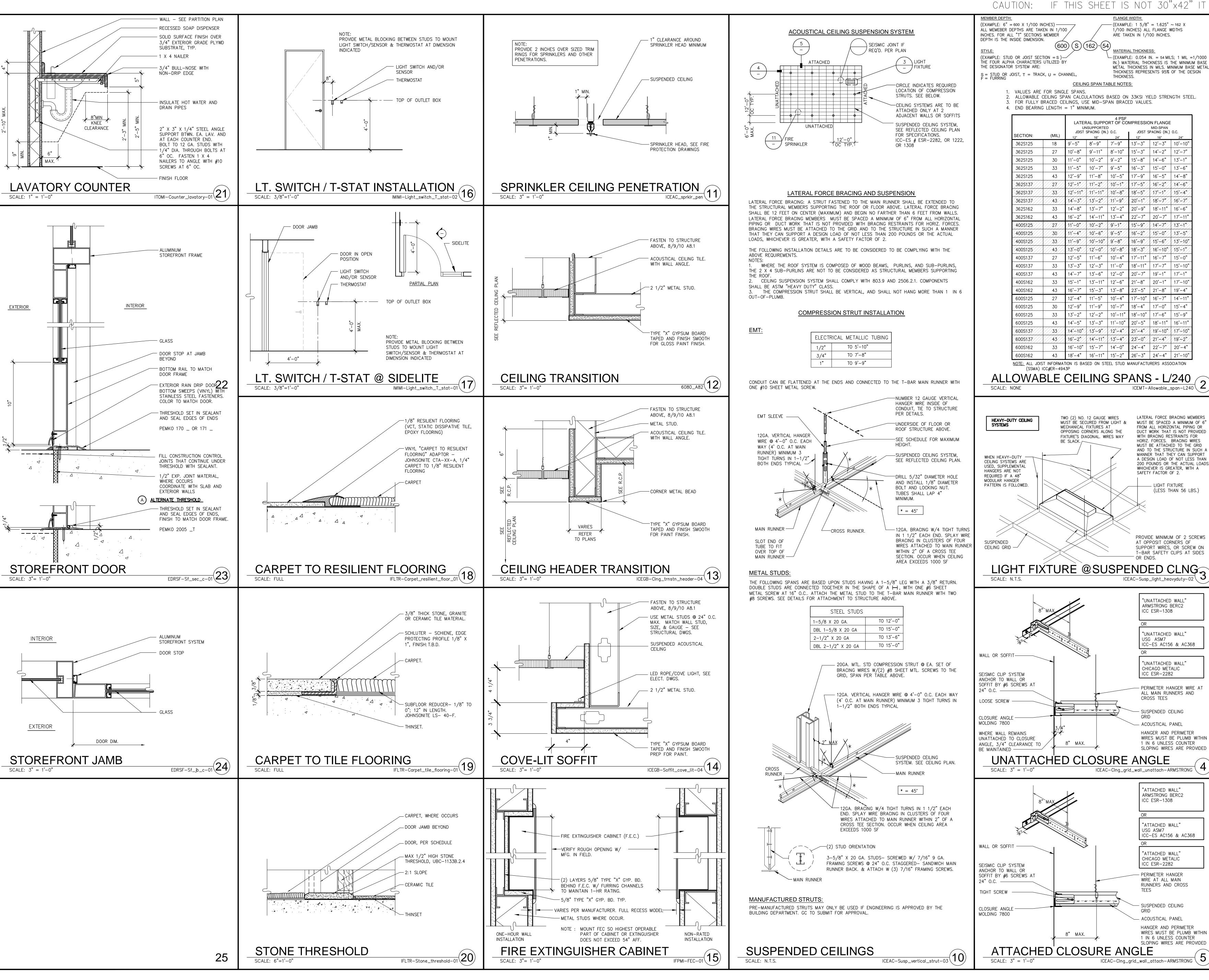


CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT MEMBER DEPTH: FLANGE WIDTH: MB I Estate $-(EXAMPLE: 1 5/8" = 1.625" \sim 162 X$ INTERIOR GYP. BD. WALLS SHALL CONFORM TO ICC REPORT ESR-1338: NOTES FOR ALL WALLS:

• SEE METAL STUD CHART FOR GAUGE. ALL MEMEBER DEPTHS ARE TAKEN IN 1/100 1/100 INCHES) ALL FLANGE WIDTHS - MAX. METAL STUD SPACING SHALL BE 24" O.C. INCHES. FOR ALL "T" SECTIONS MEMBER ARE TAKEN IN 1/100 INCHES. - MIN. FASTENER SIZE SHALL BE No. 6, 1-1/4" SCREWS SEE FLOOR/PARTITION PLAN AND/OR GENERAL 600 S 162-54 MATERIAL THICKNESS: DEPTH IS THE INSIDE DIMENSION. NOTES SHEET FOR ANY REQUIRED INSULATION. - MAX. FASTENER SPACING SHALL BE 12" FIELD & 8" AT EDGES. ALL WALL STUDS TO BE 2 1/2", U.O.N. (EXAMPLE: STUD OR JOIST SECTION = S) \angle (EXAMPLE: 0.054 IN. = 54 MILS; 1 MIL =1/1000 • ALL RESTROOM WALL STUDS TO BE 6", U.O.N. THE FOUR ALPHA CHARACTERS UTILIZED BY IN.) MATERIAL THICKNESS IS THE MINIMUM BASE THE DESIGNATOR SYSTEM ARE: METAL THICKNESS IN MILS. MINIMUM BASE METAL THICKNESS REPRESENTS 95% OF THE DESIGN UNDERSIDE OF ROOF OR DECK ABOVE S = STUD OR JOIST, T = TRACK, U = CHANNEL, F = FURRING MA for Com INTERIOR NON-STRUCTURAL COMPOSITE: MÉMBER (IN.) O.C. L/240 MÉMBER (IN.) O.C. L/240 250S125-18 11'-11" 400S125-43 21'-2" WARE Leading Design 11'-3" 250S125-18 19'-5" 400S125-43 250S125-18 10'-7" 400S125-43 17'-2" 250S125-33 13'-11" 400S125-54 (50 KSI) 22'-11" 250S125-33 12'–10" 400S125-54 (50 KSI 21'-1" 11'-7" 250S125-33 400S125-54 (50 KSI) 18'–10" 250S125-43 15'-9" 400S125-68 (50 KSI 25**'**–0" 250S125-43 14'-9" 400S125-68 (50 KSI 23'-1" 13'-6" 20**'**-9" 250S125-43 100S125-68 (50 KS CEILING LINE CEILING LINE 22'-1" 00S125-18 19'-9" 362S125-18 15'-4" 00S125-18 14'-4" 600S125-18 16'-9" 362S125-18 13'-5" 362S125-18 600S125-33 26'-9" 24'-6" 362S125-33 17'-10" 600S125-33 362S125-33 16'-5" 600S125-33 21'-7" 24" 14'-9" 30'-7" 362S125-33 600S125-43 19'-7" 600S125-43 28**'**-3**"** 362S125-43 362S125-43 18'-0" 600S125-43 25'-7**"** FULL HEIGHT 1-HR RATED FULL HEIGHT LOW WALL NON-RATED 362S125-43 16'-3" 600S125-54 (50 KSI 32'-6" PARTITION PARTITION **∥** ■ **∥** PARTITION III PARTITION 362S125-54 (50 KSI) 21'-2" 600S125-54 (50 KSI 30**'**–0" W/INSULATION SLAB TO SLAB TO HEIGHT SLAB TO 6" 19**'**–7" 362S125-54 (50 KSI) 600S125-54 (50 KSI 27**'**-0" CÓNTINUING HEIGHT NOTED SLAB TO UNDERSIDE OF UNDERSIDE OF SLAB TO NOTED (SEE ABOVE CEILING, DERSIDE OF 362S125-54 (50 KSI 17**'**-8" 600S125-68 (50 KSI 34'-8" PLAN SPECIFIC ROOF OR FLOOR DECK ABOVE UNDERSIDE OF ROOF OR SPECIFIC NOTES) ROOF OR FLOOR DECK ABOVE NOTES) 21'–10" 600S125-68 (50 KSI 32'-0" 362S125-68 (50 KSI) OOR DECK AŁ OVE, 20'-0" 362S125-68 (50 KSI 600S125-68 (50 KS 28'-9" 17'-8" 362S125-68 (50 KSI 800S125-43 37'-6" 3 34**'**-4" 800S125-43 400S125-18 16'-5" 15'-4" 800S125-43 30'-6" 400S125-18 FINISH FLOOR LINE 40'-0" 14'-2" 800S125-54 (50 KSI 400S125-18 19'-11" 400S125-33 800S125-54 (50 KSI) 36'-8" 18'-4" 400S125-33 800S125-54 (50 KSI) 32'-6" 400S125-33 16'-5" 800S125-68 (50 KSI) 43'-4" "C" "D" 300S125-68 (50 KSI) 39**'**–9" NOTE: ALL STUD INFORMATION IS BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) ICC#ER-4943P 800S125-68 (50 KSI) LIMITING WALL HEIGHT TABLE-L/240
SCALE: NONE

IWAMT-Height_table-L_240

12 WALL TYPE SCHEDULE SCALE: 1/2"=1'-0" (IWAMT-Wall_type_schedule-01) \ ROOF/FLOOR, SEE STRUCTURAL DRAWINGS STEEL DECK, SEE STRUCTURAL DRIV DRAWINGS -POWDER-DRIVEN FASTENER AT 32" ON CENTER - 0.140 SHANK DIAMETER RAMSET/REDHEAD CATALOG NUMBER 1500 SERIES MIN. 1-1/8" EMBED PER ICC ESR-1663 -METAL STUD BRACE WALL SWAY BRACE 23 18 SCALE: 3"=1'-0" — BRACE TO STRUCTURE, ALTERNATE SIDES. USE METAL STUDS AT 8'-0" O.C. MAX., MATCH WALL STUD SIZE 5/8" TYPE "X" GYPSUM BOARD BOTH SIDES. & GAUGE (3 5/8" 20 GA. MIN.)PROVIDE BENT LEG & 45 DEG. - METAL STUD PARTITION PER FASTEN TO TOP TRACK. MAX WALL TYPE SCHEDULE. LENGTH OF BRACE 25'-0" TOP TRACK SECURED TO WALL BRACE W/ (2) #8 SHEET METAL SCREWS - FRY DRYWALL MOLDING **ENCLOSURE** SUSPENDED ACOUSTICAL CEILING, SEE RCP - EXISTING SILL BELOW. - END OF WALL PAINTED BLACK. CEILING WALL ANGLE - BLACK NEOPRENE GASKET - CEILING JOISTS AT HARD-LID COMPRESSED AT LEAST 20% 5/8" GYP. BD.—✓ CEILING, SEE RCP & CEILING OR APPROVED SEALANT AT EACH SIDE OVER JOISTS TABLE RATED PARTITIONS. METAL STUDS, SEE METAL STUD TABLE FOR SIZE - INSULATION WHERE OCCURS, - EXISTING EXTERIOR WINDOW € OF MULLION & SPACING SEE WALL TYPE SCHEDULE SYSTEM PARTITION AT WINDOW PARTITION TO 6" ABOVE CEILING $\frac{1}{1} \frac{1}{1} \frac{1}$ IWAMT-6ac_hd_dia_brc_ct_hl-01 (4) 24 19 SCALE: 3'' = 1' - 0''SCALE: 3''=1'-0''INSULATION WHERE OCCURS, SEE WALL TYPE SCHEDULE 5/8" GYP. BD. EACH SIDE OVER METAL STUDS, SEE METAL STUD TABLE FOR SIZE & SPACING (TYPE-X AT FIRE RATED - BOTTOM TRACK WITH .145 DIA. x 1 1/4" POWDER DRIVEN FASTENER AT 24" O.C. PER ICC-ESR 1799 4" RESILIENT BASE @ GYP. BD. WALLS U.O.N. —— - #10 SCREWS (TYP.) FINISH FLOOR TENGLISH PA / PM: DRAWN BY: NOTES: 1. PROVIDE ACOUSTICAL SEALANT
(OR FIRE CAULKING AT FIRE JOB NO.: | SDG11-6080-0 RATED WALLS) AT BOTH SIDES OF WALL BOTTOM. 2. REFERENCE **UL# U419** FOR FIRE RATED WALL ASSEMBLIES. WALL BASE IWAMT-Base_typ-01 (5) 20 15 SCALE: 3"=1'-0"



CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT -- (EXAMPLE: 1 5/8" = 1.625" \sim 162 X 1/100 INCHES) ALL FLANGE WIDTHS ARE TAKEN IN 1/100 INCHES.

MB I Estate Cial C

RE 1 Design

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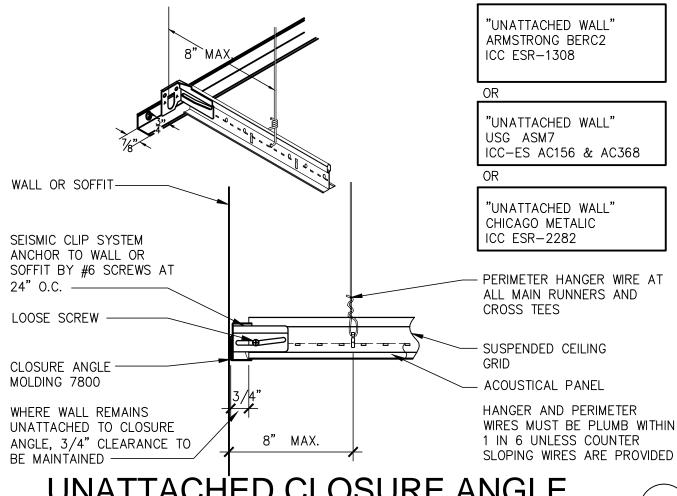
ICEMT-Allowable_span-L240 \ 🚄 /

_ LIGHT FIXTURE

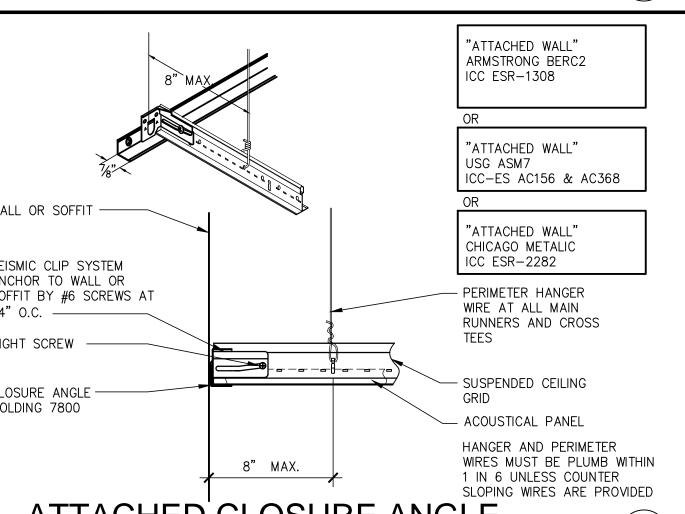
MID-SPAN

LATERAL FORCE BRACING MEMBERS MUST BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZ. FORCES. BRACING WIRES MUST BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 POUNDS OR THE ACTUAL LOADS, WHICHEVER IS GREATER, WITH A (LESS THAN 56 LBS.) PROVIDE MINIMUM OF 2 SCREWS SUPPORT WIRES, OR SCREW ON T-BAR SAFETY CLIPS AT SIDES

LIGHT FIXTURE @SUSPENDED CLNG ICEAC-Susp_light_heavyduty-02 3

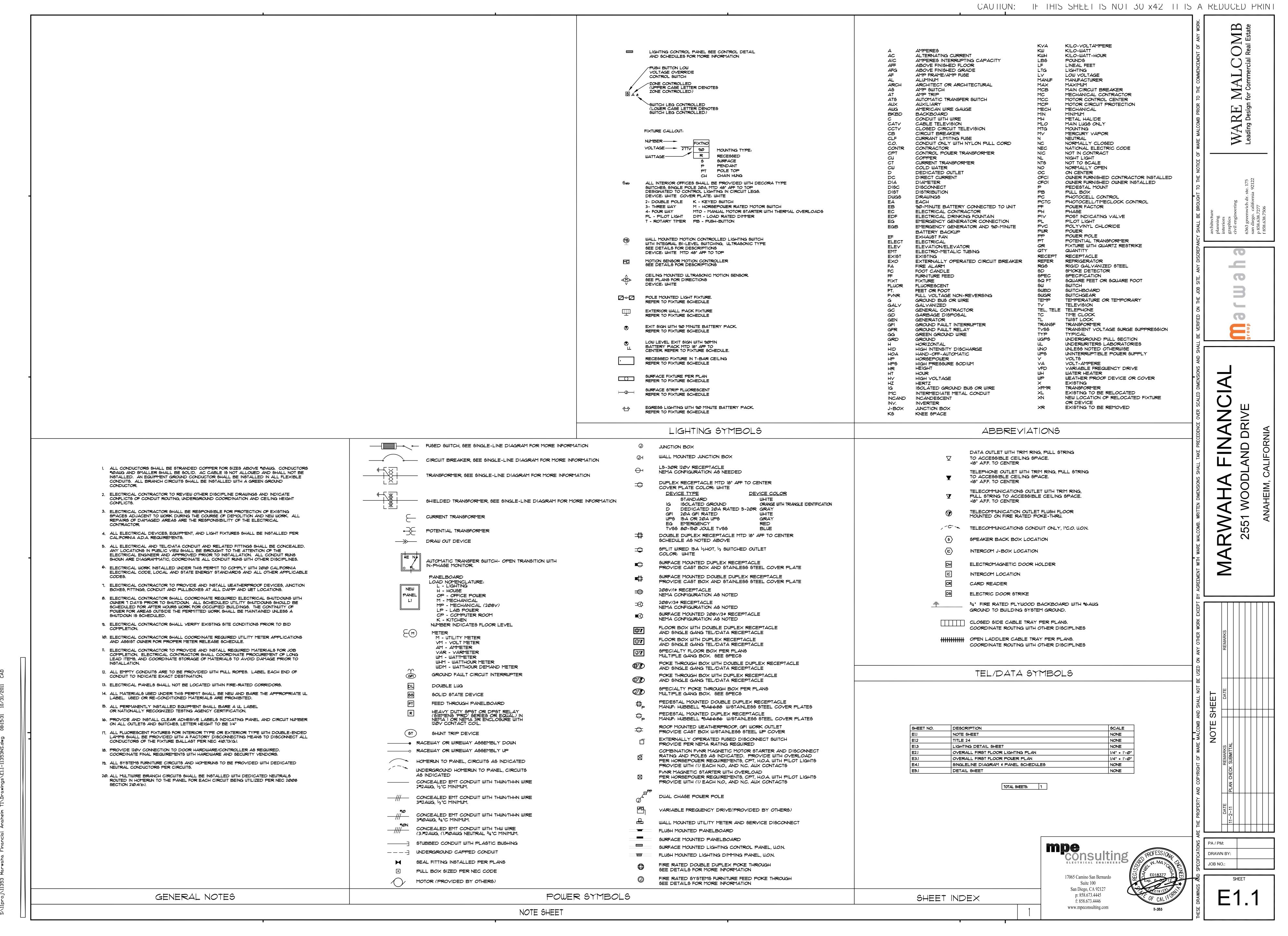


UNATTACHED CLOSURE ANGLE $_{ ext{ICEAC-Clng_grid_wall_unattach-ARMSTRONG}}$ (4 ,



∞ర PA / PM: TENGLISH DRAWN BY: JOB NO.: SDG11-6080-0

SHEET



WARE MALCOMB Leading Design for Commercial Real Estate

	MPLIANCE			(Pa	<u>rt 1 of 4)</u>		TG-1C
Project Name Marwaha Financial						Date 17	e 0/28/2011
Project Address		Climate	Zone	Total Con	d. Floor Area	Unconditione	
2551 Woodland dr. Anaheim	1		8	4	.022	C)
GENERAL INFORMATION							
Danang i poc.	onresidential		High-Rise Resid	ential [□ Hotel/Mot	tel Guest R	oom
	elocatable Public chool	☑	Conditioned Spa	ices [Unconditi	ioned Spac	es
	ew Construction		Addition		⊿ teration	1 A	
Method of Compliance: □ Co	omplete Building		Area Category		ailored	'''	
Documentation Author's	Declaration St	tatemo	ent		7		
l certify that this Certificate of Com Name	ipiiance documenta	allon is a	accurate and comp	sign	aXire	$\prec \sim$	
Luis Lopez					\W		
Company				Date	10/28/201	11	
Address				CEA		•	
17065 Camino San Berna	ardo Ste 100			CEP	E#		
City/State/Zip San Diego, CA 92127				Phor		1115	
The Principal Lighting De			. 01-1		(858) 673	-4440	
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	OR LIGHTING SCHEDULE and FIELD IN			ar cn	LUKLK				
	ation Certificate, LTG-1- INST (Retain a copy and verify form						spector		
A sepa	cate of Acceptance, LTG-2A (Retain a copy and verify form i rate Lighting Schedule Must Be Filled Out for Conditioned hting Schedule is only for:	and Uncond	and signed.) litioned Spac	ces Instal	led Lightir	rieid in ng Power	spector listed or	ו	
Ø	CONDITIONED SPACE	u	INCONDITIO	ONED SP	ACE				
☑	The actual indoor lighting power listed below includes a with §146(a).	·		•		-			
Ø	Only for offices: Up to the first 0.2 watts per square foot calculation of actual indoor lighting power density in acc 0.2 watts per square foot is totaled below.	ordance with	the Excepti	on to §14	e(a). All p	ortable l	ighting in	exce	ss of
	Luminaire (Type, Lamps, Ballasts)			Inst	talled W	atts			
Α	В	С	D		E	F	G		1
					rattage termined				eld ector ²
None or Item Tag	Complete Luminaire Description ¹ (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballasts)	Special Features	Watts per Luminaire	CEC Default From NA8	According To §130 (d or e)	Number of Luminaires	Installed Watts (D X F)	Pass	Fail
F1	(2) 4 ft Fluorescent T8 Rapid Start Elec		62.0	☑		46	2,852		
F2	(2) 2 ft Fluorescent T8 Elec		33.0	☑		4	132		
F3	(1) 42w Compact Fluorescent Trip/Quad 4pin Elec		46.0	Ø		29	1,334		
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		- - 						$\ddot{-}$	<u> </u>
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					atts Page		4,318		
	Building total number of pages:		Inst		tts Buildin Sum of all				
					3-1C Page		4,318		
I. Watta 2. If Fai	age shall be determined according to Section 130 (d and e). Watta il then describe on Page 2 of the Inspection Checklist Form and ta	age shall be ra ake appropriat	ating of light fix e action to co	ture, not ra	ating of bul y building p	b. plans if ne	cessary.		

CERTIFICATE OF COMPLIA	ANCE		(Part 3 of 4)		G-1
Project Name Marwaha Financial				Date 10/2	8/201
INDOOR LIGHTING SCHEDULE and F	IELD INSPECT	ION ENERGY CHECKL	ST		
Fill in controls for all spaces: a) area controls automatic daylighting controls for daylit areas general lighting controlled separately from discontrols for retail stores $> 50,000~{\rm ft}^2$, in according to the controls of the controls for retail stores $> 50,000~{\rm ft}^2$.	s > 2,500 ft², d) sł splav. ornamenta	nut-off controls, e) display li I and display case lighting a	ahting controls, f) tailored	liahtina co	ntrols
MANDATORY LIGHTING CONTROLS	– FIELD INSPE	CTION ENERGY CHEC	KLIST		eld ector
Type/ Description	Number of Units	Location in Build	Special Iing Features	Pass	Fa
AS SHOWN		AS SHOWN			
	110 0110 011	, , , , , , , , , , , , , , , , , , , ,			
					-
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SPECIAL FEATURES INSPECTION CH The local enforcement agency should pay sp justification and documentation, and special and may reject a building or design that othe submitted.	ecial attention to verification. The lo	the items specified in this c	hecklist. These items requestermines the adequacy o	f the justifi	catio
Field Inspector's Notes or Discrepancies:					
EnergyPro 5.1 by EnergySoft User Number: 64		e: 2011-10-28T10:00:00	ID: 11-353		age 3 c

CERTIFICATE OF	COMPLIANCE		(Part 4 of 4)	LTG.
Project Name Marwaha Financial				Date 10/28/2
	CONDITIONED SPACE LIGHTI	NG MUST NO	T BE COMBINED FOR COM	
	ower for Conditioned Spaces		oor Lighting Power for Uncondi	
	Watts	,		Wat
Installed Lighting	- 0)	1,318 Installed		
(from Conditioned LTG-1C, Page Lighting Control Credit	e 2)	Lighting (onditioned LTG-1C, Page 2) Control Credit	
Conditioned Spaces (from LTG-	2C) -	Unconditio	oned Spaces (from LTG-2C)	-
Adjusted Installed Lighting Power	=	3,481 Adjusted Lighting P	Installed ower	=
Complies if Installed ≤ Allo	wed ‡	Complies	if Installed ≤ Allowed	
Allowed Lighting Power Conditioned Spaces (from L	TO 00 DEDE 4)	Allowed	Lighting Power ioned Spaces (from LTG-3C)	
Conditioned Spaces (Iron L	IG-3C 0I FENF-1)	Officorial	oned spaces (noin E1G-3C)	
system with controls is instal The LTG-2A form is not cons	led in the building or space shall be sidered a complete form and is not t	certified as mee to be accepted b	y the enforcement agency unless	ts. the boxes are
system with controls is instal The LTG-2A form is not cons checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6, final occupancy. A copy of the	led in the building or space shall be	certified as mee to be accepted be ceptance forms a ing and mainten to properly filled	eting the Acceptance Requiremen by the enforcement agency unless shall be submitted to the enforcer ance information meet the require out and signed forms before the b	ts. the boxes are nent agency tements of building can re
system with controls is instal The LTG-2A form is not cons checked and/or filled and sig certifies plans, specifications §10-103(b) of Title 24 Part 6, final occupancy. A copy of the	led in the building or space shall be sidered a complete form and is not to led. In addition, a Certificate of Act installation certificates, and operato The field inspector must receive the the space of the	certified as mee to be accepted be eptance forms ng and mainten e properly filled I luminaire contr	eting the Acceptance Requiremen by the enforcement agency unless shall be submitted to the enforcer ance information meet the require out and signed forms before the b	ts. the boxes are nent agency tements of building can re
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Project Name	CONTROLS CREDIT	WORKSHE	EI	(Part 1		LTG-2C
Marwaha Fina	ncial				-	10/28/2011
	ISTMENT FACTORS (PAF) F					
A Separate PAF schedule are or	Worksheet Must Be Filled Out	for Conditioned an	d Unconditione	ed Spaces. Con	itrol Credits liste	ed on this
	IONED SPACES		UNCONDITION	ONED SPACES	;	
Α	В	С	D	Е	F	G
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)
Small Office	Occ Sensor - Multi-Level	F1	771	992	0.20	198
Open Office	Occ Sensor - Multi-Level	F1	1,028	1,178	0.20	236
Break Room	Occ Sensor - Multi-Level	F1	572	434	0.20	87
Rest Room	Occ Sensor - Multi-Level	F3	425	460	0.20	92
Conference	Occ Sensor - Multi-Level	F3	573	460	0.20	92
Conference	Occ Sensor - Multi-Level	F1	573	248	0.20	50
Lobby	Occ Sensor - Multi-Level	F3	296	414	0.20	83
					PAGE TOTAL	837
Note: Conditioned and	_	total of non-daylight co			-	
Unconditioned	Ente	er building total of all da	aylight controls cre DING TOTAL OF	dit watts from LTC	G-2C Page 2 of 2	(
Space shall be separately		(FOR BOTH NON	-DAYLIGHT AND	DAYLIGHT CON	TROL CREDITS)	837
totaled	Enter in	LTG-1C; Page 4: Light	ing Control Credit		r CONDITIONED ITIONED Spaces	037
Description shall	I be consistent with Type of Control de	fined in Table 146-C			-	
2. Power Adjustme	ent Factor taken from Table 146-C					

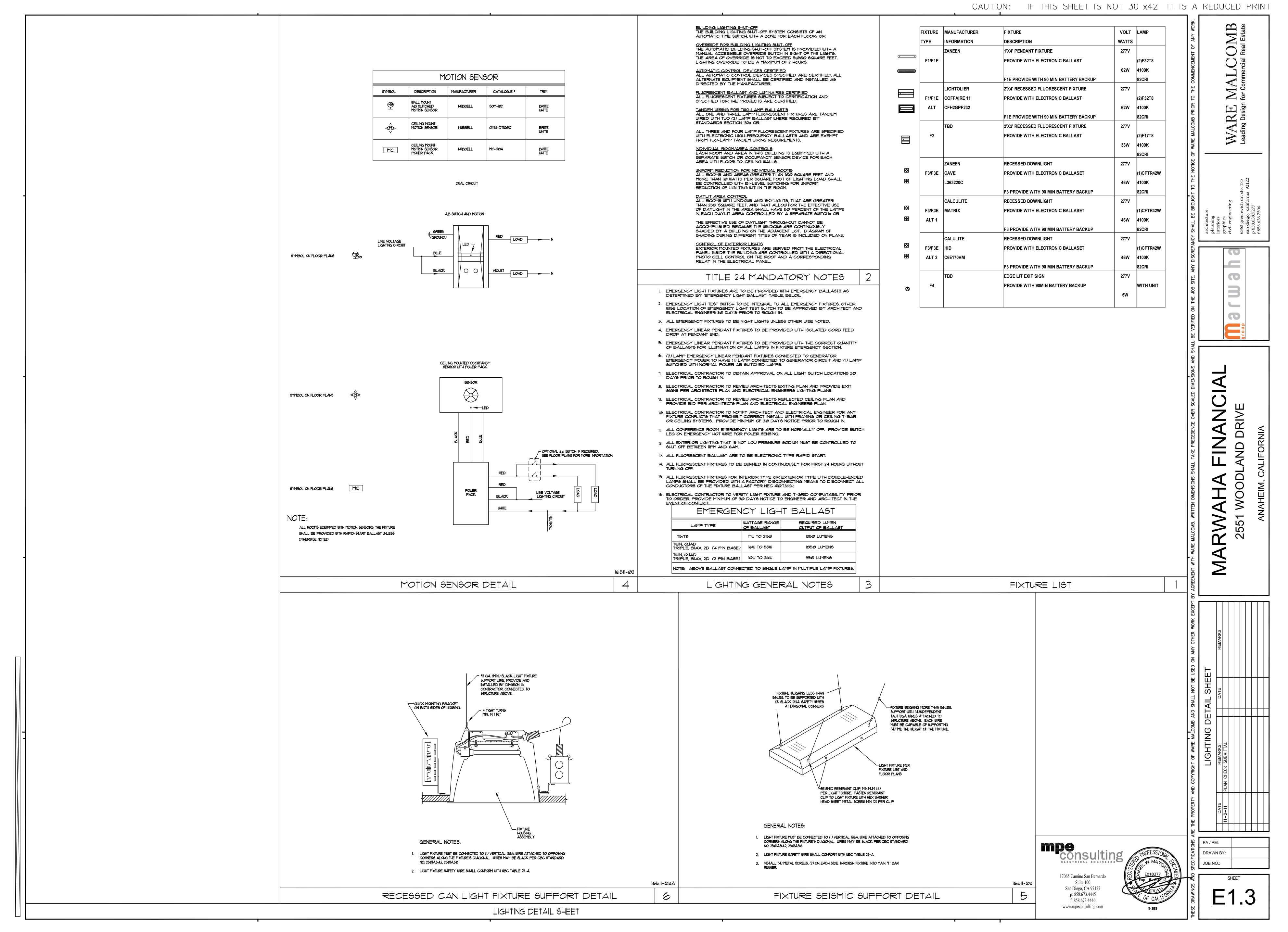
Control defined in Table 146-C 146-C	Total Allowed Watts
: 6423 RunCode: 2011-10-28710:00:00 ID: 11-353	The indoor lighting power allowance using the Tailored Mei 4C forms shall be filled out for CONDITIONED and UNCOI EnergyPro 5.1 by EnergySoft User Number: 6423
BUILDING OWNER REPRESENTATIVE OR GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CERTIFICATE OF ACCEPTANCE LTG-1-A AND ALL RELATED ACCEPTANCE DOCUMENTS. THESE SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.	

Marwaha Financial					Date 10/28/201
ALLOWED LIGHTING POWER (Chose One Method)				_	
A Separate LTG-3C must be filled out for Conditioned and Uncondition page are only for:	ied Spaces. Indoor Lig	hting	Power Allowances	s list	ted on this
☐ CONDITIONED SPACES ☐ UNCONDITION	NED SPACES				
COMPLETE BUILDING METHOD					_ Al
BUILDING CATEGORY (From §146 Table 146-E)	WATTS PER (ft²)	х	COMPLETE BLDG. AREA	=	ALLOWED WATTS
				ŀ	
		J		ļ	
	TOTALS]		
	TOTALS		ARFA		WATTS
AREA CATEGORY METHOD	TOTALS		AREA	<u> </u>	WATTS
	WATTS			 <u>-</u>	ALLOWE
BUILDING CATEGORY (From §146 Table 146-F)	WATTS PER (ft²)	x	Area ft²	=	ALLOWED WATTS
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft	WATTS PER (ft²) 1.10	1	Area ft ²		ALLOWED WATTS
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft	WATTS PER (ft²)	1	Area ft²		ALLOWED WATTS
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft	WATTS PER (ft²) 1.10 0.90	1	Area ft ² 771 1,385		ALLOWEI WATTS
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry	WATTS PER (ft²) 1.10 0.90 1.50		Area ft ² 771 1,385 868		### ALLOWED WATTS ### 1,2 1,3 2
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60		Area ft ² 771 1,385 868 425		### ALLOWED WATTS ### 1,2 1,3 2
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60		Area ft ² 771 1,385 868 425		### ALLOWED WATTS ### 1,2 1,3 2
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60		Area ft ² 771 1,385 868 425		### ALLOWED WATTS ### 1,2 1,3 2
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60		Area ft ² 771 1,385 868 425		### ALLOWED WATTS ### 1,2 1,3 2
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60		Area ft ² 771 1,385 868 425		ALLOWED
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60		Area ft ² 771 1,385 868 425 573 4,022		ALLOWEI WATTS 8 1,2 1,3 2 8
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Carridor/Restroom/Support Convention/Conference/Meeting	WATTS PER (ft²) 1.10 0.90 1.50 0.60 1.40		Area ft ² 771 1,385 868 425 573		ALLOWEI WATTS
BUILDING CATEGORY (From §146 Table 146-F) Office <= 250 sqft Office > 250 sqft Lobby, Main Entry Corridor/Restroom/Support	WATTS PER (ft²) 1.10 0.90 1.50 0.60 1.40 TOTALS		Area ft ² 771 1,385 868 425 573 4,022 AREA		ALLOWEI WATTS 8 1,2 1,3 2 8

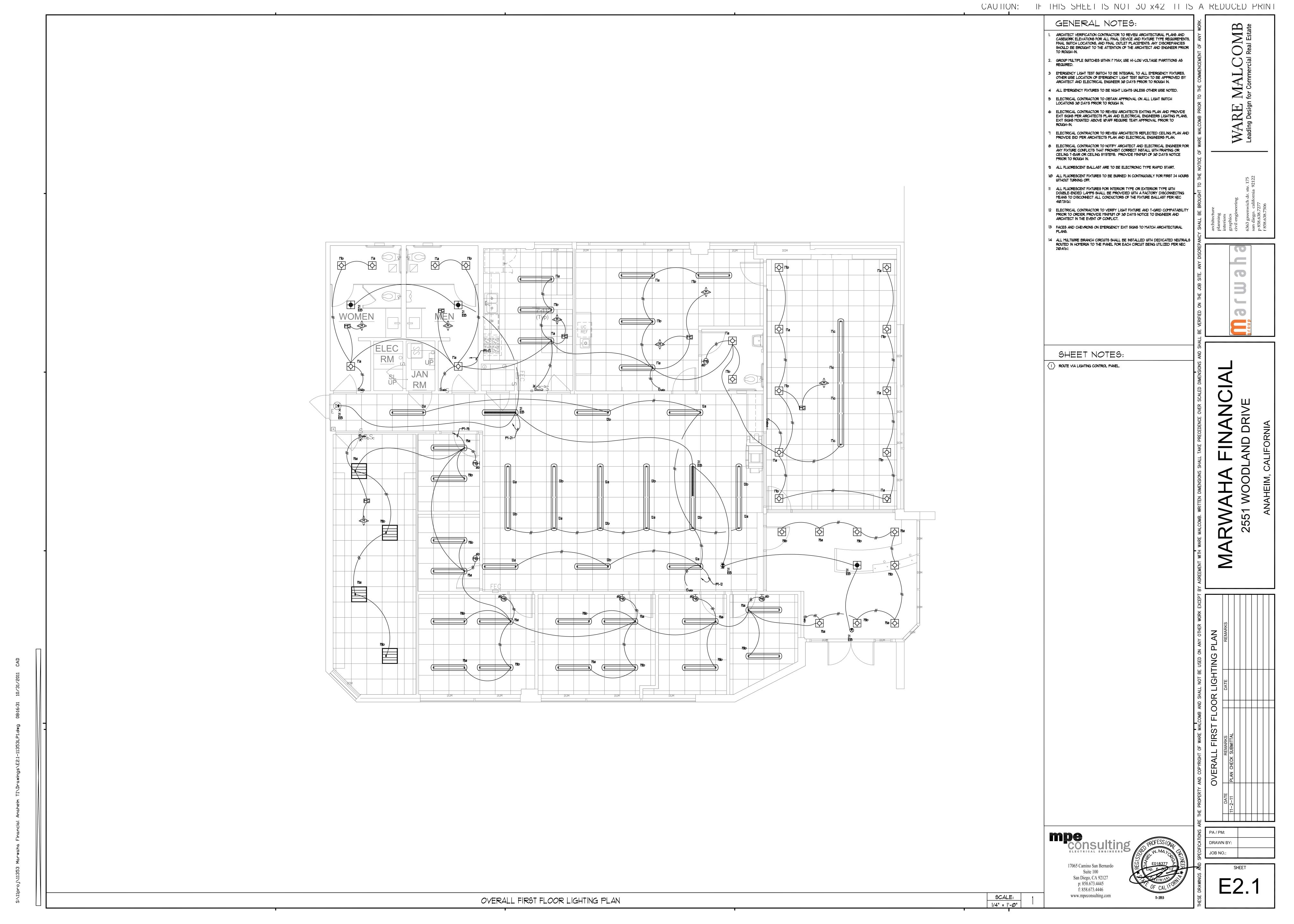
17065 Camino San Bernardo
Suite 100
San Diego, CA 92127
p: 858.673.4445
f: 858.673.4446
www.mpeconsulting.com

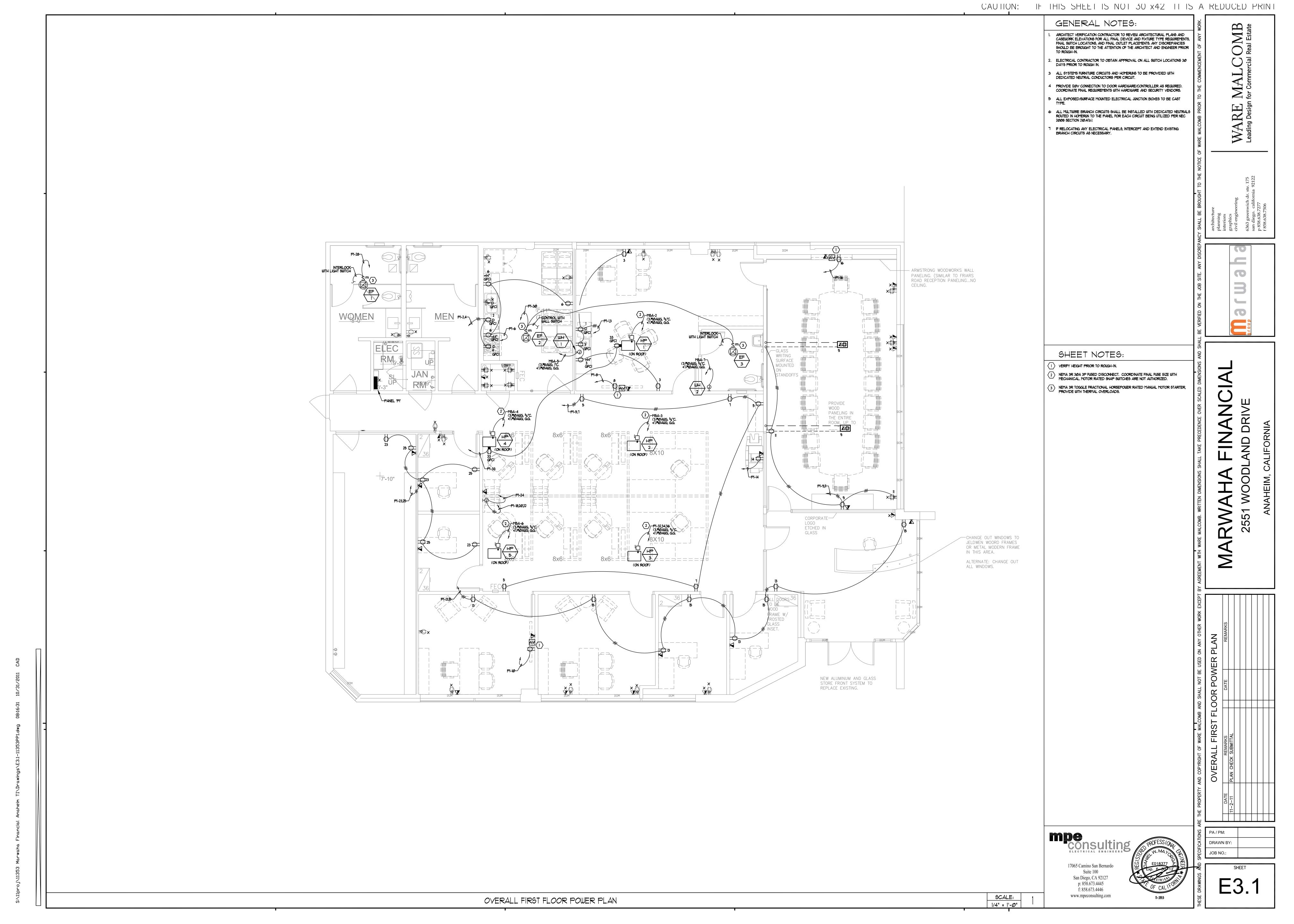
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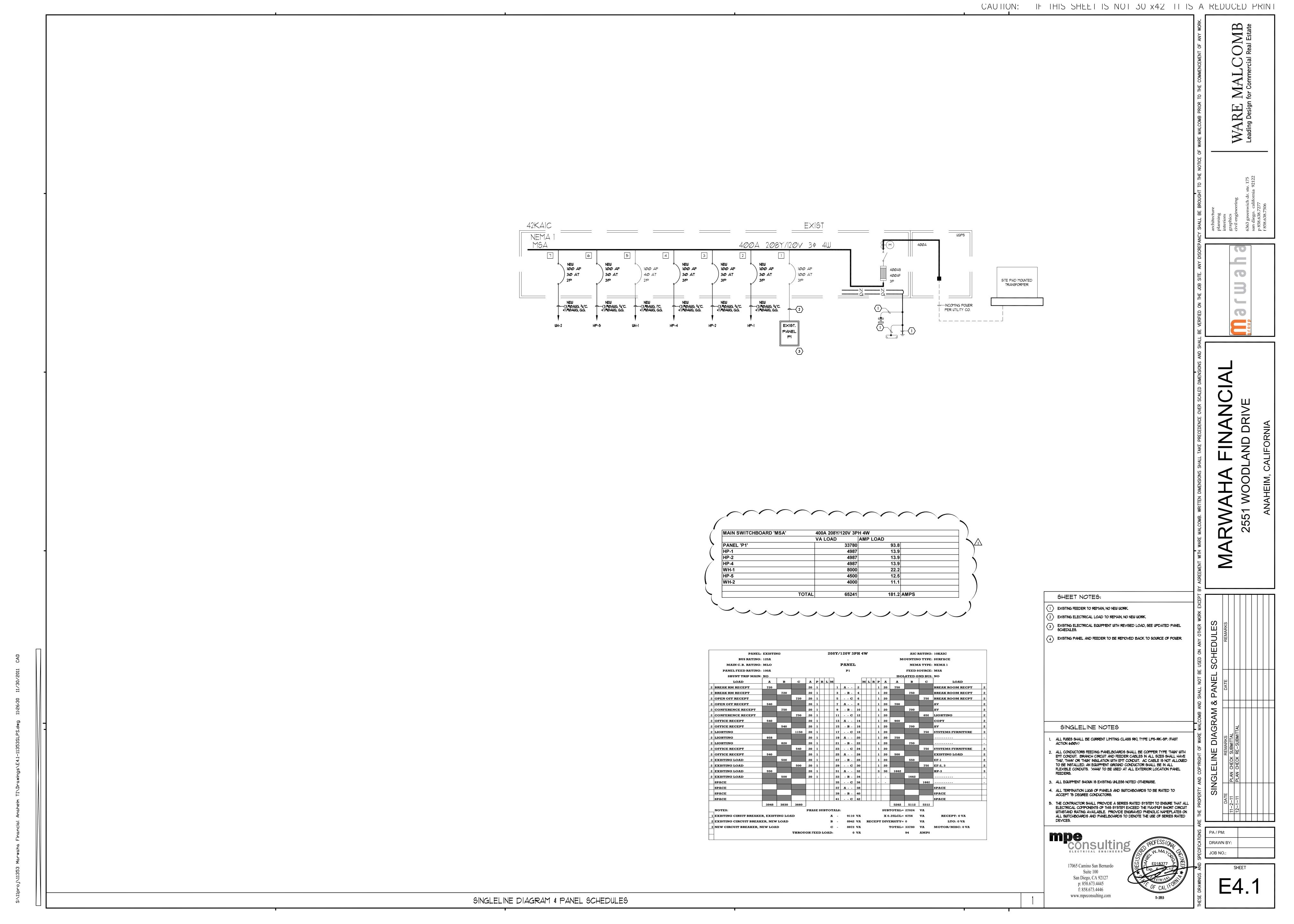
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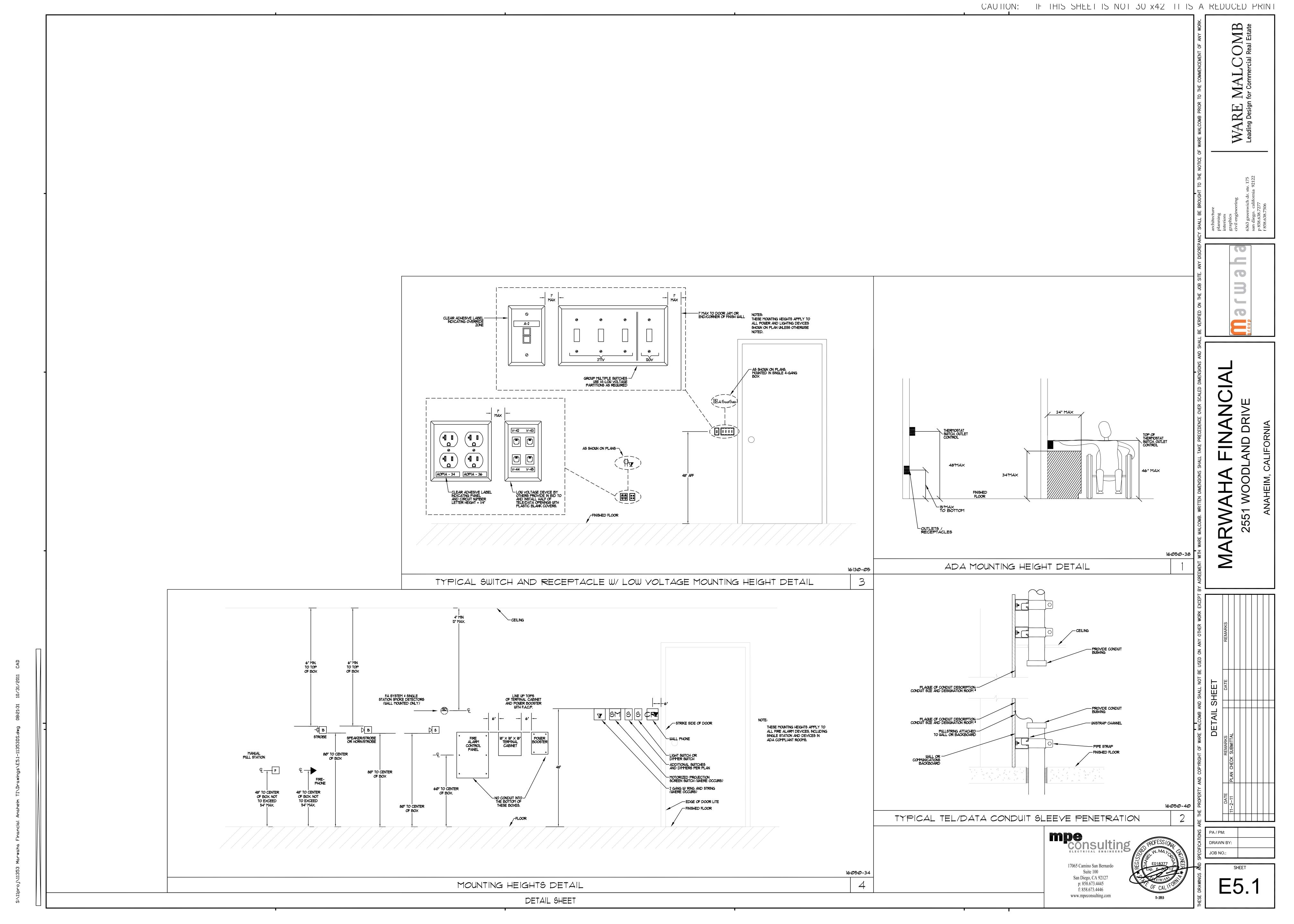


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	EXHAUST FAN SCHEDULE												
MAR	MANUFACTURER	MODEL	TYPE	AREA SERVED	CFM	E.S.P. (IN. W.G.)	FAN RPM	WATTS (HP)	VOLTS	1	1	OPER. WEIGHT (LBS.)	REMARKS
EF\ 1	СООК	ACEB-100C2B	ROOF	RESTROOMS JAN. ROOM	700	.375	1545	1/6 HP	120	1	60	30	CONTROL WITH LIGHTSWITCH
EF\ 2	СООК	ACEB-60C2B	ROOF	BREAK ROOM	150	.250	1525	1/6 HP	120	1	60	30	CONTROL WITH WALL SWITCH
$\frac{\langle EF \rangle}{3}$	COOK	GC-144	CABINET	EXECUTIVE RESTROOM	120	.250	1100	98 W	115	1	60	15	CONTROL WITH LIGHTSWITCH

Proiect N		SPECTION ENERGY CHE	-UNLIOI	Date:		(Page 4 of 4) Climate Zone:8	
	Marwa	ha Financial		Date: 10/28	3/11	Cinnate Zone 8	
Docur	mentation	Author's Declaration State	ment				
•	I certify that	t this Certificate of Compliance do	cumentation is acc		omplete.		
Name: G	erald Mar	ino	Signature:				
Compan	y MDC Inc		·		Date: 10/28/11	*	
Address					If Applicable:		
		le Ridge Dr.			CEA# CEPE#		
City/Sta	^{te/Zip:} San D	iego, Ca 92119			Phone: 858-705	-2796	
Princi		er's Declaration Statement			1		
•		e under Division 3 of the Californi				_	
•		cate of Compliance identifies the e 4, Parts 1 and 6 of the California C			ance specifications	s required for compliance	
•	The design	features represented on this Certifi	cate of Compliance	e are consis	tent with the infor	mation provided to document	
	this design of	on the other applicable compliance t agency for approval with this bui	forms, worksheets	s, calculatio	ns, plans and spec	sifications submitted to the	
Name:	CHUICHICH	Lagoney for approval with this but	Signature:		· · · · · · · · · · · · · · · · · · ·		
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Compan	ıy:				Date:		
Address	:		- 1		License #	100000000000000000000000000000000000000	
City/Sta	te/Zip:				Phone:		
Envelo	pe Mandatoi	ry Measures					
Indicate	e location on	ry Measures building plans of Mandatory Enve O APPLICANT ENVELOPE C			1.1	if worksheet are included)	
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Indicate INSTR For deta Manual.	E location on EUCTIONS To a series instruction ENV-1C ENV-2C	O APPLICANT ENVELOPE Cons on the use of this and all Energy Efforts. Certificate of Compliance and Figure 1.	GOMPLIANCE & ficiency Standards content Approach. Option DV Energy Approach	WORKSH impliance for ergy Check onal on plan ach. Option	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Cons on the use of this and all Energy Efficients of Compliance and Figure 1. Use with the Envelope Components with the Overall Envelope To Use when minimum skylight required.	GOMPLIANCE & ficiency Standards content Approach. Option DV Energy Approach	WORKSH impliance for ergy Check onal on plan ach. Option	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	COMPLIANCE & ficiency Standards content Approach. Option To Energy Approximates for large	workshampliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	GOMPLIANCE & ficiency Standards content Approach. Option DV Energy Approach	workshampliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	COMPLIANCE & ficiency Standards content Approach. Option To Energy Approximates for large	workshampliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	COMPLIANCE & ficiency Standards content Approach. Option To Energy Approximates for large	workshampliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	COMPLIANCE & ficiency Standards content Approach. Option To Energy Approximates for large	workshampliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	COMPLIANCE & ficiency Standards content Approach. Option To Energy Approximates for large	workshampliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	
Indicate INSTR For deta Manual. I	ENV-3C ENV-4C	O APPLICANT ENVELOPE Conson the use of this and all Energy Effective with the Envelope Components with the Envelope Components with the Overall Envelope To Use when minimum skylight requipes 15. Optional on plans.	COMPLIANCE & ficiency Standards content Approach. Option To Energy Approximates for large	worksh impliance for ergy Check onal on plan ach. Option e enclosed s	1.1 IEETS (check box rms, please refer to a list. Required on as. aal on plans.	the Nonresidential Compliance plans for all submittals.	

Projec	ot Name: Marw	aha Financial		(Part 5 of 5) MECH	
Doc	umentation A	Author's Declaration Stat	ement		
•	I certify that thi	s Certificate of Compliance doc	umentation is accurate and com	plete.	
Name	Gerald Mar	ino	Signature:	M	
Comp	any:MDC Inc			Date: 10/28/11	
Addre		e Ridge Dr.	-	If Applicable CEA # CEPE #	
City/S	State/ZipSan Di	ego, Ca 92119		Phone: 858-705-2796	
		nical Designer's Declarat	ion Statement		
•	design. This Certificate Title 24, Parts 1 The design featt this design on the	of Compliance identifies the me and 6 of the California Code of ares represented on this Certifica	chanical features and performa Regulations. ate of Compliance are consisten forms, worksheets, calculations	to accept responsibility for the mechanic nce specifications required for compliance t with the information provided to docume plans and specifications submitted to the	
	Gerald Marir		Signature:	M/ (A) 10-28-11	
	any Name:MDC		90	Pate: 10/28/11	
	ss:7757 Eagl			License #M031971	
		ego, Ca 92119			
	datory Measu	·-		Phone: 858-705-2796	
MEC For d	CHANICAL C etailed instruction al Note: The En	forcement Agency may require a	WORKSHEETS (check bosergy Efficiency Standards comp all forms to be incorporated ont	liance forms, refer to the 2008 Nonreside o the building plans.	
<u> </u>	MECH-1C MECH-2C		quired on plans for all submittal ary is required for all submittals		
×	МЕСН-3С			als with mechanical ventilation.	
X	MECH-4C	Fan Power Consumption is rec	juired when for all prescriptive	submittals.	

MECHANICAL PLAN CHECK NOTES

- 1. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 112 & 122 OF THE STATE OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD (E.E.S).
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2010 C.M.C.
- 3. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 118, 123, AND 124 TITLE 24 ENERGY STANDARDS AND CH 6 OF THE CMC 2010.
- 4. ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
- 5. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 111-113, 115 & 120-129 E.E.S.
- 6. ALL HVAC SYSTEMS SHALL MEET THE VENTILATION REQUIREMENTS PER SECTION 121 E.E.S. 2008. FOR AIR HANDLERS MOVING GREATER THAN 5000 CFM, PROVIDE AUTOMATIC DAMPERS INTER LOCKED & CLOSED ON FAN SHUT DOWN. ON GRAVITY VENTILATION EITHER AUTOMATIC OR ACCESSIBLE, MANUALLY OPERATED DAMPERS SHALL BE INSTALLED WITH AIR OPENINGS TO THE OUTSIDE, OTHER THAN COMBUSTION AIR OPENINGS.
- 7. AREA SEPARATION WALLS:
- A. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY. FIRE STOPPING SHALL BE 2007 C.B.C., SECTION 4304 (E).
- B. NO RANGE HOOD VENTS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS
- 3. PROVIDE SMOKE DETECTORS IN THE SUPPLY DUCT AT HVAC EQUIPMENT EXCEEDING 2000 CFM, FOR REQUIRED SHUT-OFF FOR SMOKE CONTROL AS PER CMC, SECTION 609.
- 9. HVAC SYSTEMS SERVING A SPACE WITH OVER 2,000 CFM SHALL CONFORM TO CMC SECTION 609 SHUTOFF FOR SMOKE CONTROL. REFERENCE "AIR MOVING SYSTEM" DEFINITION IN UMC SECTION 203.
- 10. CERTIFICATE OF ACCEPTANCE (MECH 1-A) AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
- 11. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 910.8 CMC.
- 12. CERTIFICATE OF ACCEPTANCE OF (MECH-1-A) AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.

MECHANICAL GENERAL NOTES

- 1. ALL BRANCH DUCTS TO HAVE BALANCE DAMPERS WITH QUADRANT
- 2. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
- 3. FLEXIBLE DUCT SHALL BE A MAXIMUM OF 8 FT. IN LENGTH. MINIMUM BEND RADIUS SHALL BE TWICE DUCT DIAMETER
- 4. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH C.M.C. LATEST EDITION, SECTIONS 601 THROUGH 604 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- 5. DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ENERGY COMMISSION (CEC) LATEST EDITION TABLE 2-53B, THE STATE MECHANICAL CODE PART 4, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE AND THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) SECTIONS 605 & 409.3. SEE SPECIFICATIONS FOR MINIMUM THICKNESS AND TYPE. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 E.E.S.
- 6. THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 7. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.
- 8. GENERAL CONTRACTOR SHALL UNDERCUT DOORS SHOWN 1" TO PROVIDE TRANSFER AIR FLOW.
- 9. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION WITH REFLECTED CEILING PLAN, I.E. LIGHTS, SPEAKERS, TILES, AND SPRINKLER HEADS.
- 10. FIRE/SMOKE DAMPERS: REVIEW BOTH THE MECHANICAL AND ARCHITECTURAL PLANS FOR FIRE/SMOKE DAMPER REQUIREMENTS. FIRE/SMOKE DAMPERS SHALL BE INSTALLED AND BE READILY ACCESSIBLE FOR SERVICING IN THE LOCATIONS LISTED IN THE C.B.C., SECTION 713 AND SHALL BE IN ACCORDANCE WITH C.M.C., SECTION 606.
- 11. FIRE/SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
- 12. ALL FILTERS SHALL BE CERTIFIED BY THE MANUFACTURER AND INSTALLED IN COMPLIANCE WITH SECTIONS 408 OF THE CMC.

SYMBOL	ADDD	MECHANICAL LEGEND
2 I MIBOL	ABBR.	DESCRIPTION
	C.D.	CEILING DIFFUSER - SUPPLY AIR
	R.G.	RETURN AIR GRILLE
	T.A.G.	TRANSFER AIR GRILLE
	E.G.	EXHAUST AIR GRILLE
	S.A.	SUPPLY AIR DUCT
	R.A.	RETURN AIR DUCT
	E.A.	EXHAUST AIR DUCT
	-	DUCT WITH SOUND INSULATION
	S.F.D.	SMOKE / FIRE DAMPER
	M.V.D.	MANUAL VOLUME DAMPER
	-	FLEXIBLE DUCT CONNECTION
	-	DUCT RISE / DUCT DROP
	-	CAPPED DUCT OR PIPE
	-	FLEXIBLE DUCT WORK
	-	DUCT WORK TRANSITION
	T.V.	RECTANGULAR DUCT WITH TURNING VANES
-U/C	U.C.	UNDERCUT DOOR 1"
① _X	-	THERMOSTAT & EQUIP. MARK NUMBER
SX	-	WALL MOUNTED ON/OFF SWITCH.
(5D)	-	SMOKE DETECTOR
	O.A.	OUTSIDE AIR
	N.O.	NORMALLY OPEN
	N.C.	NORMALLY CLOSED
	P.D.	PRESSURE DROP
	C.A.	COMBUSTION AIR
	A.F.F.	ABOVE FINISHED FLOOR
	U.T.R.	UP THROUGH ROOF
	W/	WITH
	U.N.O.	UNLESS NOTED OTHERWISE
	SWS	SIDEWALL SUPPLY REGISTER
	SWR	SIDEWALL RETURN REGISTER
•	P.O.C.	POINT OF CONNECTION

CAUTION. IF THIS SHEET IS INCLUSED X42 IT IS A REDUCED PRINT

ES & T-24

REMARKS

TOTHER WORK EXCEPT BY AGREEMENT WITH WARE MALCOMB. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE

WARTEN MARK MARK MAHA FINA

2551 WOODLAND DR

WARE Leading Design

CHANICAL SCHEDULES, LEGEND. NO

REMARKS

1 PLAN CHECK SUBMITTAL

PA / PM: TENGLISH

DRAWN BY:

JOB NO.: SDG11-608

SHEET 1.1

PROFESSIONAL CENTRE CHANICANIA OF CALIFORNIA

Marino Design Consulting, Inc. 7757 Eagle Ridge Dr. San Diego, Ca. 92119 Phone: 858-705-2796 Fax: 619-464-5496

www.mdcmechanical.com

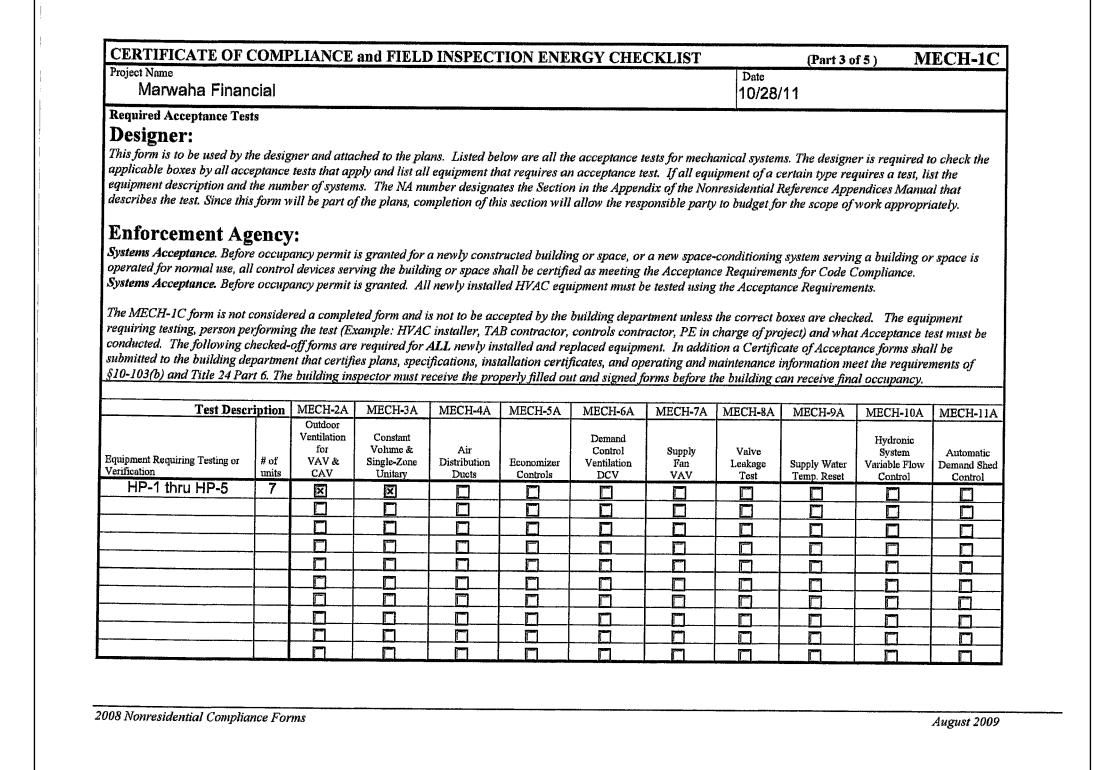
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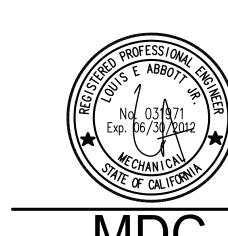
NCE and		
CHECKLIST	(Page 1 of 5)	MECH-1C
	Date: 10-28-11	Climate Zone:8
l	10-28-11	8
enue, Anaheim, Ca		Conditioned Floor Area: 4200 SF
ential High-Rise Residential	Hotel/Motel Guest Room	

Project Name: Marwaha Financia	al	Date: 10-2	8-11	Climate Zone:8
Project Address: 2551 Woodland A	venue, Anaheim, Ca		· · · · · · · · · · · · · · · · · · ·	Conditioned Floor Area: 4200 SF
General Information				
Building Type: Nonresid	lential High-Rise Residential	☐ Hotel/Motel Gues	t Room	
☐ Schools (Public School)☐ Relocate	able Public School Bldg. 🗵 Conditions	ed Spaces 🔲 Uncor	ditioned S	paces
Phase of Construction:	New Construction	Alterat	tion	
Approach of Compliance:	Component Uncone	ditioned (file affidavit	<u> </u>	
Front Orientation: N, E, S, W or in Degr			<u></u>	
HVAC SYSTEM DETAILS		FIELD INSPECT	ION ENE	RGY CHECKLIST
				quirements
Equipment	Inspection Criteria	Pass		- Describe Reason ²
Item or System Tags	HP-5			
(i.e. AC-1, RTU-1, HP-1)	<u></u>			
Equipment Type ³ :	Heat Pump			
No of Systems Max Allowed Heating Capacity ¹	44.26 MBH	<u> </u>		
Minimum Heating Efficiency ¹	8.1 HSPF			<u> </u>
Max Allowed Cooling Capacity ¹	45.40 MBH			
Cooling Efficiency ¹	15.80 SEER			
Duct Location/ R-Value	R-8			
When duct testing is required, submit	No			
MECH-4A & MECH-4-HERS	+			
Economizer	No 🖪			
Thermostat	Programmable Constant			<u>_</u>
Fan Control	Constant			Ц
Equipment	In an add at C the the		1	RGY CHECKLIST
Item or System Tags	Inspection Criteria	Pass	Fail -	Describe Reason ²
(i.e. AC-1, RTU-1, HP-1)	=			
Equipment Type ³ :				
No of Systems				
Max Allowed Heating Capacity ¹				
Minimum Heating Efficiency ¹		П		
Max Allowed Cooling Capacity ¹				
Cooling Efficiency ¹				
Duct Location/ R-Value			ļ	
When duct testing is required, submit MECH-4A & MECH-4-HERS	4			
Economizer				
Thermostat			-	
Fan Control 1. If the Actual installed equipment performa	nce efficiency and connects to love the 17 7	onogod (Grow the same	7:	
the building plans) the responsible party sh	nce efficiency and capacity is less than the Properties of the Properties of the Inspection Checklist Form. Complete 2 of the Inspection Checklist Form.	e new changes. liance fails if a Fail box		e submittal or from

Project Name: Marwaha Financi	al	Date: 10-2	28-11	Climate Zone:8
Project Address: 2551 Woodland A	venue, Anaheim, Ca			Conditioned Floor Area: 4200 SF
General Information			7 (1)	
Building Type: Nonreside	dential High-Rise Residential	☐ Hotel/Motel Gue	st Room	
☐ Schools (Public School) ☐ Relocat	able Public School Bldg. 🗷 Condition	ed Spaces Unco	nditioned S	paces
	New Construction Addition		*****	
Approach of Compliance:		nditioned (file affidavi		
Front Orientation: N, E, S, W or in Degr		iditioned (The attiday)	ι)	
HVAC SYSTEM DETAILS		EIELD INSDECT	TON END	RGY CHECKLIST
HVAC SISTEM DETAILS				
Equipment	Inspection Criteria	Pass		quirements
Item or System Tags			ган	- Describe Reason ²
(i.e. AC-1, RTU-1, HP-1)	HP-3			
Equipment Type ³ :	Heat Pump			
No of Systems	1			
Max Allowed Heating Capacity ¹	29.76MBH			
Minimum Heating Efficiency ¹	8.0 HSPF			
Max Allowed Cooling Capacity ¹	28.25 MBH			
Cooling Efficiency ¹	14.20 SEER			
Duct Location/ R-Value	R-8			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No			
Economizer	No			П
Thermostat	Programmable	l 		
Fan Control	Constant			П
		FIELD INSPECT	ION ENE	RGY CHECKLIST
Equipment	Inspection Criteria	Pass	Fail -	Describe Reason ²
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-4	П		
Equipment Type ³ :	Heat Pump			
No of Systems	1			
Max Allowed Heating Capacity ¹	46.90 MBH			
Minimum Heating Efficiency ¹	8.1 HSPF			
Max Allowed Cooling Capacity ¹	48.10 MBH			
Cooling Efficiency ¹	15.80 SEER			
Duct Location/ R-Value	R-8			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No E			
Economizer	No			
Thermostat	Programmable			П
Fan Control	Constant			
1. If the Actual installed equipment performa	nce efficiency and capacity is less than the F hall resubmit energy compliance to include t age 2 of the Inspection Checklist Form. Com	roposed (from the energ he new changes. pliance fails if a Fail bo		

Project Name: Marwaha Finance Project Address: 2551 Woodland A General Information Building Type: Nonres Schools (Public School) Relocation Phase of Construction:	Avenue, Anaheim, Ca	Date: 10-28	Climate Zone:8 Conditioned Flo Area; 4200 SI
General Information Building Type: Nonres Schools (Public School) Reloca	idential High-Rise Residential		Conditioned Flo
Building Type: Nonres Schools (Public School) Reloca			
☐ Schools (Public School)☐ Reloca		FT TT-1-1/2 (1.1.1.0)	
	table Public School Bldg. 🗵 Conditione	☐ Hotel/Motel Guest	· · · · · · · · · · · · · · · · · · ·
Phase of Construction:		ed Spaces Uncon	ditioned Spaces
	New Construction	n 🗷 Alterati	on
Approach of Compliance:	Component Uncond	ditioned (file affidavit)	
Front Orientation: N, E, S, W or in De	grees: E		
HVAC SYSTEM DETAILS		FIELD INSPECTI	ON ENERGY CHECK
		Meets Crit	eria or Requirements
Equipment	Inspection Criteria	Pass	Fail - Describe Rea
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-1		
Equipment Type ³ :	Heat Pump		
No of Systems	1		
Max Allowed Heating Capacity ¹	32.70 MBH		Ē
Minimum Heating Efficiency ¹	8.0 HSPF		
Max Allowed Cooling Capacity ¹	34.90 MBH		
Cooling Efficiency ¹	15.60 SEER		
Duct Location/ R-Value When duct testing is required, submit	R-8		
MECH-4A & MECH-4-HERS	No		
Economizer	No n		
Thermostat	Programmable		
Fan Control	Constant		
_		FIELD INSPECTI	ON ENERGY CHECK
Equipment	Inspection Criteria	Pass	Fail - Describe Reas
ltem or System Tags (i.e. AC-1, RTU-1, HP-1)	HP-2		
Equipment Type ³ :	Heat Pump		П
No of Systems	1		
Max Allowed Heating Capacity ¹	32.70 MBH		
Minimum Heating Efficiency ¹	8.1 HSPF		
Max Allowed Cooling Capacity ¹	34.90 MBH		
	15.60 SEER		
Cooling Efficiency ¹			
Duct Location/ R-Value	R-8		
Duct Location/ R-Value When duct testing is required, submit	R-8 No No		
Duct Location/ R-Value When duct testing is required, submit MECH-4A & MECH-4-HERS	R-8 No		





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www.mdcmechanical.com

WARE MALCO

pranting interiors graphics civil engineering 6363 greenwich dr. ste. 175 san diego. california 9212

e q e m J e m

IARWAHA FINANCI 2551 WOODLAND DRIVE

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MECHANICAL T-24'S

DATE

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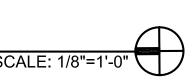
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SHEET 1.2

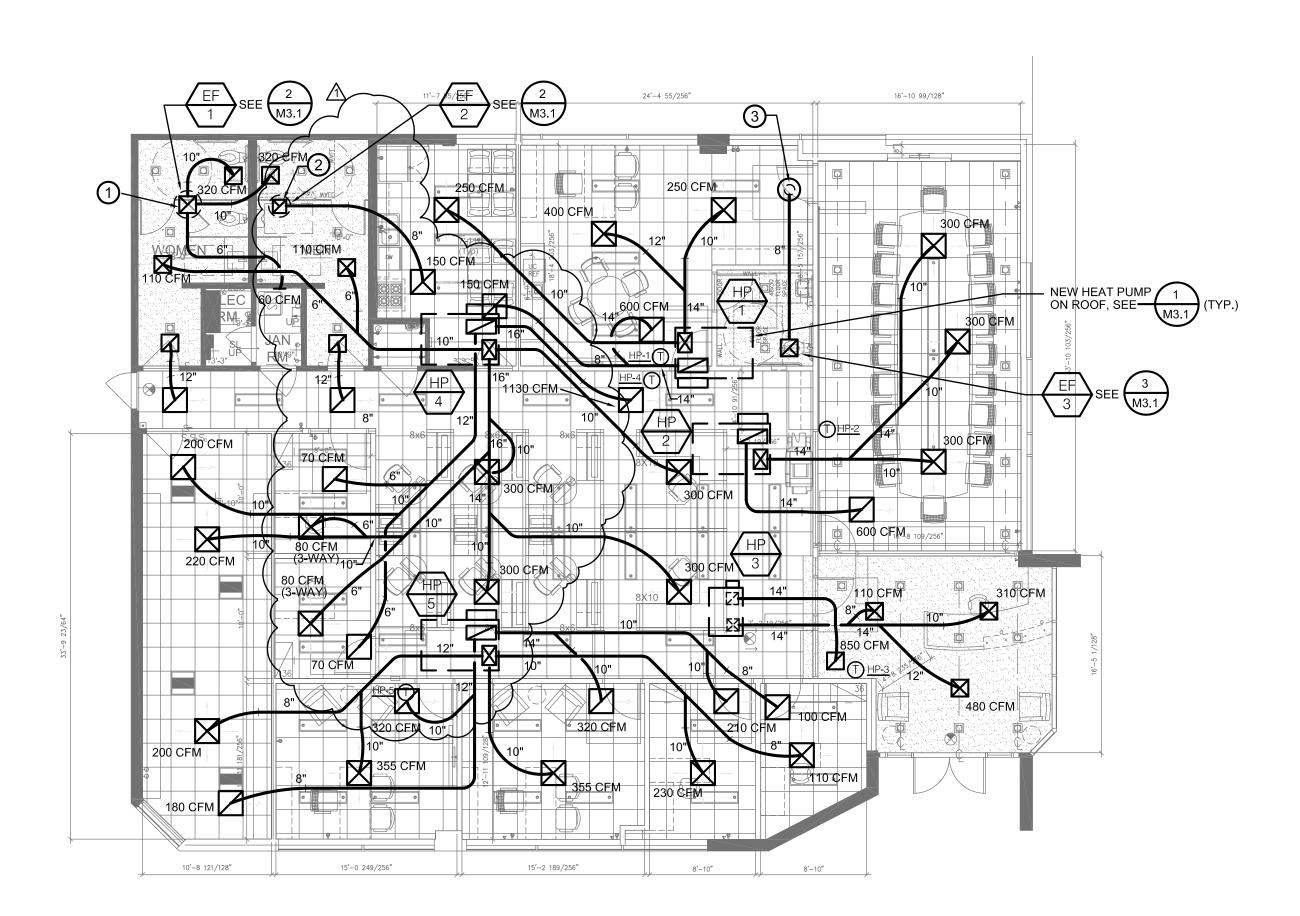


MECHANICAL FLOOR PLAN - DEMOLITION

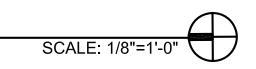


DEMOLITION NOTES

- 1 REMOVE EXISTING DISCHARGE HEAT PUMP ON ROOF ALONG WITH RELATED DUCT & COND. PIPING.
- 2 REMOVE EXISTING ROOFTOP SUPPLY AND RETURN DUCTS & ROOF PENETRATIONS. PATCH ROOF.
- REMOVE EXISTING CEILING DIFFUSER OR REGISTER ALONG WITH ALL RELATED DUCTWORK ABOVE CEILING.
 REMOVE EXISTING CABINET TYPE EXHAUST FAN AND ROOF CAPS. PATCH ROOF.
- 5 REMOVE EXISTING THERMOSTAT.



MECHANICAL FLOOR PLAN - NEW WORK

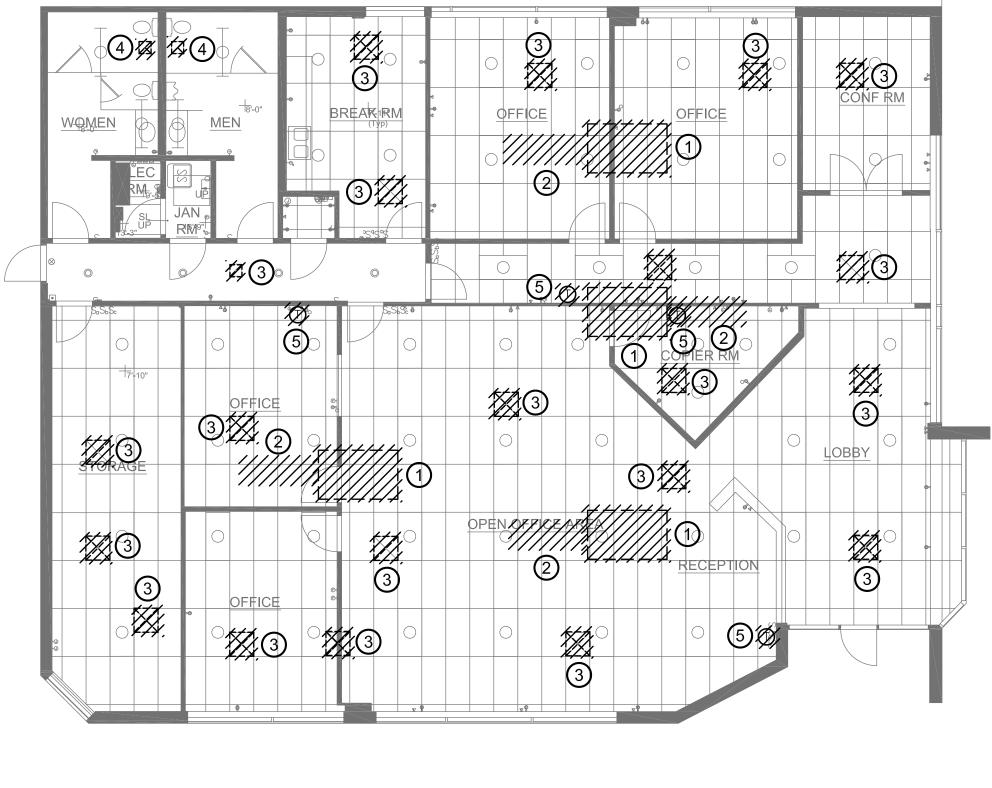


SHEET NOTES

- 1 14"x14" EXHAUST DUCT UP THE ROOF TO EF-1.
- 2 8"x8" EXHAUST DUCT UP THE ROOF TO EF-2.
- 3 8" EXHAUST DUCT UP TO ROOF CAP, SEE



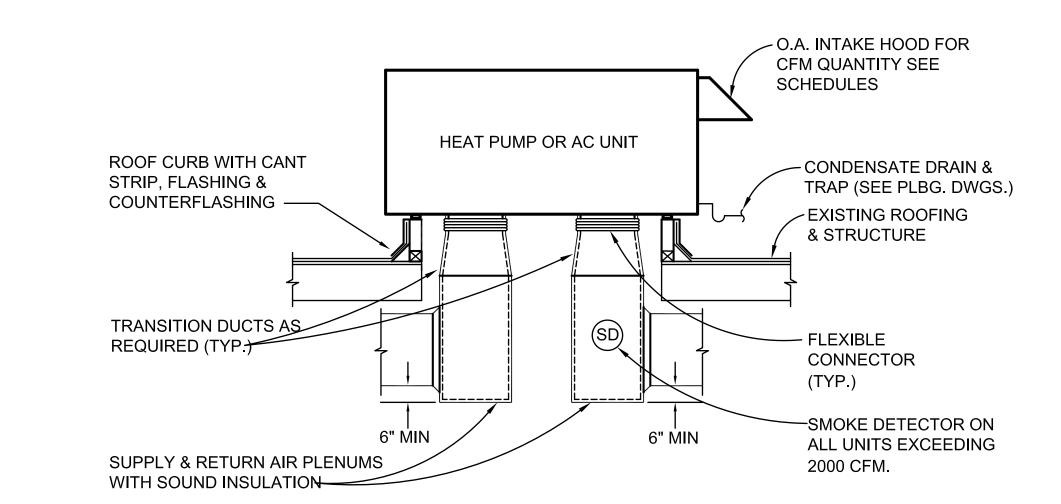
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WARE Leading Design

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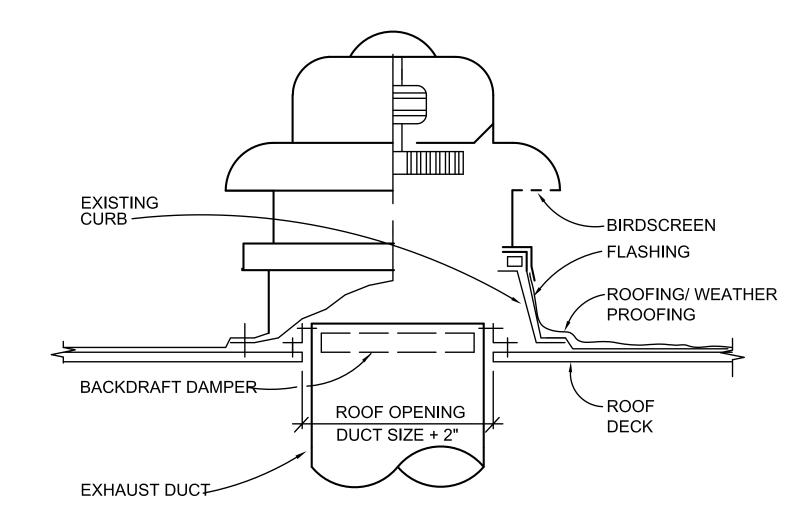


NOTES: 1. COORDINATE EXACT LOCATION AND FRAMING OF ROOF OPENING WITH GENERAL CONTRACTOR.

GENERAL CONTRACTOR SHALL PROVIDE LEVEL CURB FOR INSTALLATION OF FACTORY FURNISHED ROOF CURB.

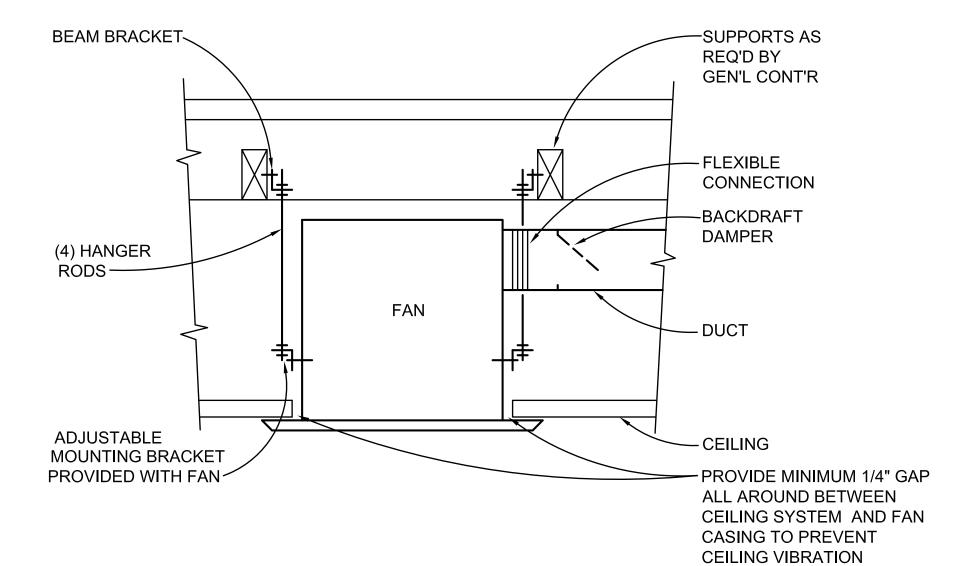








NO SCALE



CEILING EXHAUST FAN DETAIL

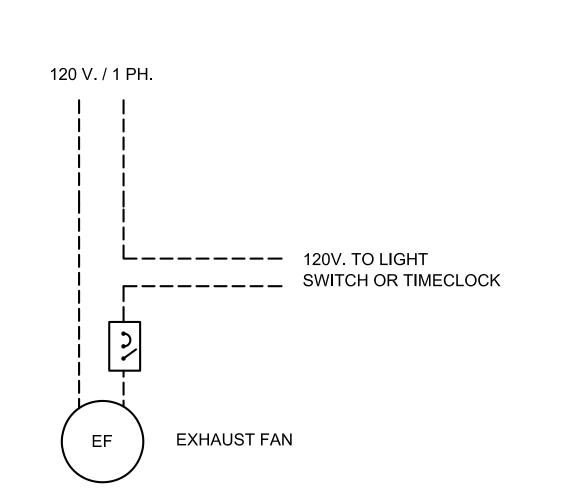
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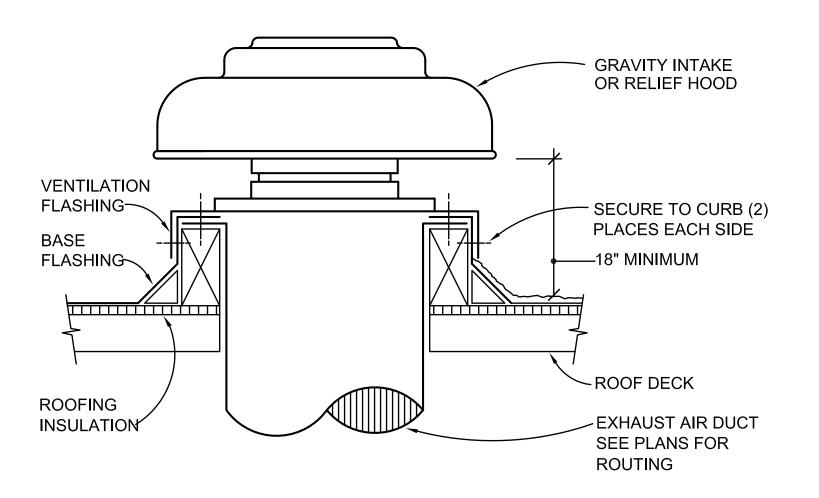


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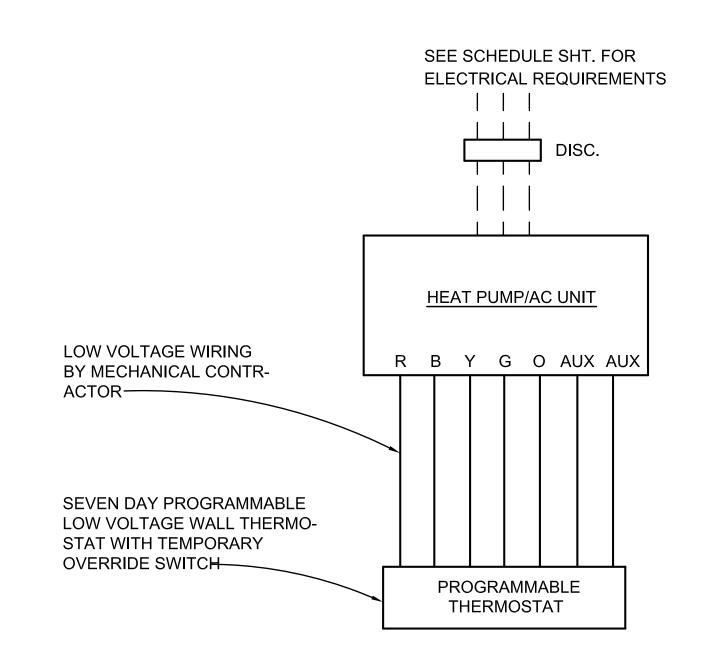
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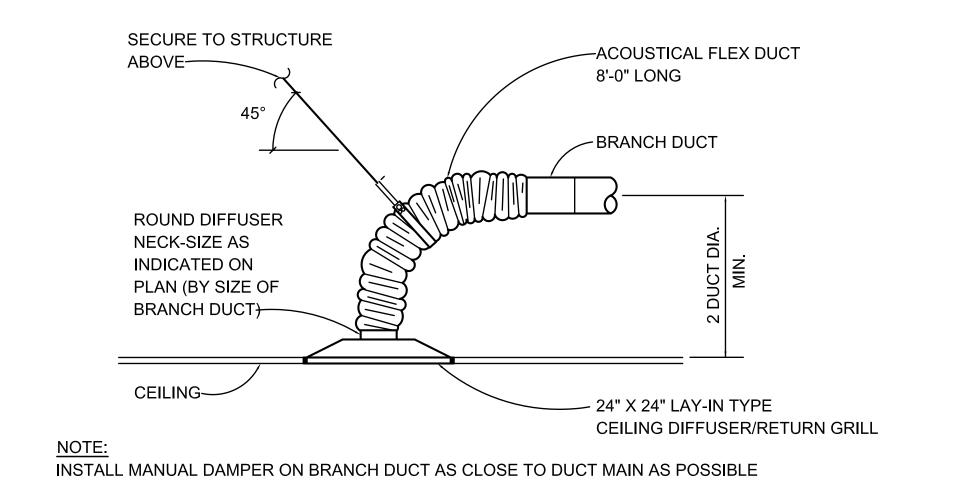






HEAT PUMP CONTROL DIAGRAM

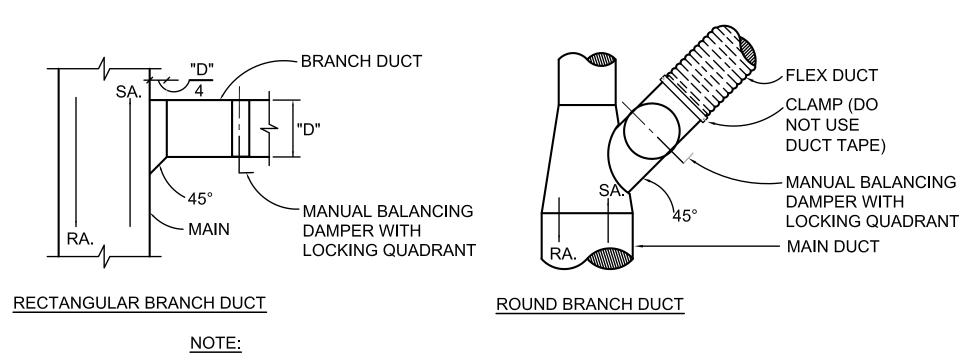
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GRAVITY HOOD DETAIL

NO SCALE





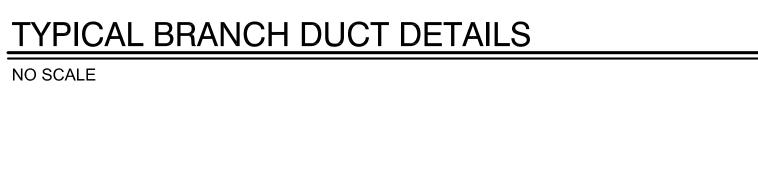
ALL BRANCH TAKE-OFFS SHALL HAVE A LOW LOSS FITTING WHETHER SHOWN ON THE FLOOR PLAN OR NOT.





M3.1







PA / PM: DRAWN BY JOB NO.:

SECTION 15050 BASIC MECHANICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. The Drawings and the general provisions of the Contract, including the General and Supplementary Conditions and other Division 1 Specification Sections, apply to the work of this Section.

1.02 SUMMARY

A. Work Included: Basic mechanical requirements governing materials and workmanship incorporated into plumbing, heating, ventilating, air conditioning and related trades as specified herein.

1.03 REFERENCES

A. Materials and workmanship shall comply with the following references, which are incorporated into the text by common abbreviation only. Supplements which have been adopted by the governing agencies shall take precedence.

UMC - Uniform Mechanical Code (Current Edition) UPC - Uniform Plumbing Code (Current Edition) UBC - Uniform Building Code (Current Edition) NEC - National Electric Code (Current Edition) NFPA - National Fire Protection Association (Current Edition)

B. HVAC System components shall comply with the nationally recognized standards for the type of equipment used including, but not limited to, Underwriter's Laboratories (UL), Sheet Metal and Air Conditioning Contractor's National Association (SMACNA) and the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Handbook.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's data for each item to be incorporated into the Work. Data shall be bound into a vinyl binder of 1" capacity and shall include an index at the front listing of all contents. Each submittal item shall be referenced to equipment mark number or material specification section.

B. Shop Drawings: Submit shop drawings showing related dimensions, accurately scaled to established references and points of verification. Show sizes, materials, connections, elevations and related information.

C. Record Drawings: Contractor shall maintain accurate "as-built" marked-up drawings through construction. Prior to final acceptance, submit (1) complete reproducible "as-built" set dated and signed.

1.05 SUBSTITUTIONS

A. All base bids shall be per plan and specifications. All equipment shall be by the scheduled manufacturer.

B. Any substitutions shall be submitted as an alternate bid. The manufacturer shall provide a separate schedule which shall include the section, paragraph, and subparagraph of these specifications and direct statement to indicate compliance or non-compliance with the requirements. For all areas of non-compliance the manufacturer shall describe what specific and alternative approach has been taken and document the impact this will have on the building systems to include sizing of the air delivery systems, the required cooling and heating capacities, energy costs, structure impacts, locations of equipment, etc.

C. The manufacturer shall furnish a letter of compliance to the engineer, signed by a corporate officer of the firm, certifying the compliance and non-compliance items as stated above.

1.06 PROJECT/SITE CONDITIONS

A. Prior to installation, verify that related installations and materials are complete to ensure no interruption or interference by delinquent trades. Notify Owner of all such delinquencies and obtain review and direction prior to proceeding, or accept responsibility for correction of faulty/defective installations.

B. Permits and Fees: This Contractor shall arrange, apply for and pay for all permits, inspections, fees, and licenses required for this week by any legally constituted public authority. This Contractor shall furnish the Owner with final certificate of inspection at the completion of the work.

C. Cleaning of Equipment and Premises: This Contractor shall thoroughly clean all equipment and apparatus and leave in satisfactory condition for finish painting. If equipment has been supplied with the factory finish, the Contractor shall also be responsible for touch-up work and/or refinishing if required. During construction of the job, this Contractor shall be responsible for clean up of cartons, scrap or debris caused by this work.

1.07 SEQUENCING AND SCHEDULING

periods shall govern.

A. Contractor shall be responsible for scheduling the work of related trades to ensure timely and orderly progress of the total work to be

1.08 GUARANTEES

A. New materials and equipment to be guaranteed free from defects and faulty workmanship for a period of one year to date of occupancy. Where longer periods are specified in the specification, such longer

PART 2 - PRODUCTS None required.

PART 3 - EXECUTION None required.

END OF SECTION

SECTION 15800

HEATING, VENTILATING, AND AIR CONDITIONING

PART 1 - GENERAL

1.01 SCOPE A. The mechanical general requirements apply to work under this section. Furnish all materials and labor required to execute this work as indicated on the drawings, specified herein and necessary to complete the contract, including, but not limited to the following principle items:

1. Supply, return and general exhaust ductwork

2. Ductwork support Ductwork accessories PART 2 - PRODUCTS

2.01 HVAC EQUIPMENT

A. See equipment schedules on M1.1. and M1.2.

2.02 SUPPLY, RETURN AND EXHAUST DUCTWORK

A. Galvanized steel ducts shall be constructed in accordance with ASTM A525 and ASTM A527 of galvanized steel sheet, lock -forming quality, having G60 zinc coating in conformance with ASTM A90.

B. Ductwork Fabrication

1. Provide ducts, plenums, access doors, fresh air intakes, and exhausts as indicated and required. 2. All ductwork shall be constructed, erected and tested in accordance with the most restrictive of local local regulations, procedures detailed in the ASHRAE Handbook of Fundamentals or the applicable standards adopted by the Sheet Metal and Air Conditioning Contractors National Association. Prefabricated spiral lockseam ducts and fittings are preferred in lieu of rectangular ducts of

3. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - metal and flexible, and as indicated. Provide duct material, gauges, reinforcing, and sealing for operating

4. Construct all tees, bends and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows are used, provide air foil turning vanes.

5. Increase duct sizes gradually, not exceeding 15° divergence wherever possible; maximum 30°

divergence upstream of equipment and 30° convergence downstream. 6. Provide standard 45° lateral wye takeoffs unless otherwise indicated where 90° low loss tee

7. Horizontal ductwork shall be strongly supported with galvanized hangers in accordance with the requirements of the ASHRAE Guide and public authorities having jurisdiction.

C. Round and Oval Ductwork Fabrication

connection may be used.

1. All round duct shall be spiral lockseam construction.

2. Steel round duct shall be of standard spiral (without intermediate ribs) or single-rib construction and shall be provided according to the table below.

Standard Spiral Gauge Diameter (or Equivalent Rectangular) 0-2 Inches Wg or 0-2 Inches Wg (Negative) (Inches) 3-8 9-14 28 15-26

3. The use of round spiral duct for the pressures listed in table above shall be limited to systems whose maximum operating pressure never exceeds 2 inches wg for low pressure system and 10 inches wg for high pressure systems.

4. Duct shall be provided in continuous, unjoined lengths wherever possible. Except when interrupted by fittings, round spiral duct sections shall not be less than 12 feet long.

5. Fabricate round duct fittings per SMACNA Standard.

D. Rectangular Ductwork

surface of flow of air.

1. Flat duct surfaces shall be crimped diagonally regardless of size. Longitudinal joints in all duct sizes may be flat-lock joints. Transverse joints and intermediate bracing shall be constructed of galvanized sheet metal or galvanized structural angles in accordance with requirements of the ASHRAE guide and public authorities having jurisdiction.

2. All rectangular ducts shall conform to the SMACNA HVAC duct construction Standards, 1985. THE MINIMUM DUCT GAUGE SHALL BE TWO GAUGES HEAVIER THAN TABLE 1-5 (2" W.G. STATIC POSITIVE OR NEGATIVE) OF THE SMACNA STANDARDS.

3. Transverse joints for rectangular ducts shall be government locking with standing seams and sealed with mastic or duct sealer. Duct tape is not acceptable.

4. Longitudinal joints on low pressure supply ducts with internal static pressure in excess of 0.75 inches of water pressure shall be pittsburgh locking seam and sealed with mastic or duct sealer. Duct tape is not acceptable.

5. Lock joints shall be hammered to make them airtight. Inside of duct shall present a smooth

6. Turns shall be made with a throat radius of not less than the duct width.

E. Plenums shall be made of 18 gauge galvanized sheet reinforced horizontally on a maximum of 48 inch centers by 1-1/2x1-1/4x1/8 inch galvanized angles and reinforced vertically by 1-1/2 inch standing seams.

2.03 DUCT SEALANT

Transverse joints and longitudinal seams in duct systems shall be sealed with a duct sealant of the type specified in paragraph 1. Spiral lockseams are not longitudinal seams and do not require duct sealant. All sealants shall exceed 500 hours without becoming brittle under ASTM-D572 test conditions (oxygen bomb), unless specified otherwise. No surface preparation or solvent cleaning shall be necessary to remove light coatings of oil and dust before applying sealant unless specified otherwise. Construction joints that are not fully welded shall be sealed according to paragraph 1 below.

 Assembly joints to be installed indoors shall be sealed with Hardcast Iron Grip 601, United McGill Uni-Grip or equal (no known equal). Sealer shall be a water-based (vinyl-acrylic polymer) sealant formulated to withstand temperatures from -25 to +200EF Surfaces to be sealed should be clean, dry and free from oil, grease and dirt. Sealant shall be nonflammable (wet) and fire retardant. Sealant shall have a UL Classification marking with a flame spread of 5 and smoke developed of 5 when applied to 18-gauge galvanized steel and a flame spread of 0 and smoke developed of 0 when applied to inorganic reinforced cementboard, both at a coverage of 40 square feet per gallon.

2.04 DUCTWORK SUPPORT

A. Low Velocity Duct Hangers:

1. Rectangular: Extend strap hangers down both sides of ducts: turn under bottom 2" minimum. Metal screw hangers to bottom of duct and to upper sides of duct at not more than 12" on center. Angle hangers may be formed by extending vertical bracing angles or by rods connection to bottom angles if size of bracing angles conforms to

2. Round: Provide band of same size of hanger strap around duct and attach both ends to hanger with fasteners of rated load, per SMACNA 1976 Edition and details.

B. Horizontal Ductwork Support Schedule:

Maximum Half | Pair at 10 ft. Spacing | Pair at 8 Ft. Spacing | Pair at 5 Ft. Spacing | Pair at 4 Ft. Spacing Strap | Wire/Rod | Strap | Wire/Rod | Strap | Wire/Rod | Strap Wire/Rod Duct Perimeter "x22 ga. 10 ga.(.135") 1"x 22 ga. 10 ga.(.135") 1"x 22 ga. 12 ga.(.106") 1"x 22 ga. 12 ga.(.106") 3/8" 1/4" 1"x 22 ga. 1/4" 1"x 22 ga. 1/4" |1"x 18 ga.| 3/8" 3/8" 1"x 20 ga. 3/8" 1"x 22 ga. P = 96" 1"x 16 ga.

2.05 DUCTWORK ACCESSORIES

Flexible Duct Connectors: Provide flexible fan connector at the inlet and discharge of all air handling equipment and where indicated on the drawings. The flexible duct connectors shall isolate vibration transition from the air handling equipment to the attached ductwork. The connectors shall be pre-assembled metal to exposed fabric to metal and shall be jointed by means of a double lock seam.

1. Flexible duct connector for indoor installation shall be Duro-Dyne Metal-Fab style with excelon fabric and griploc seams (Model Metal Fab #101059 MBX4-100). The dimension shall be 3" 24 gauge metal, 3" fabric and 3" 24 gauge metal. The fabric shall be a high tear strength nylon base (with a heavy black vinyl coating on both sides). It shall be UL listed and approved by the California State Fire Marshal's office.

PART 3 - EXECUTION

3.01 BALANCING, TESTS, AND GUARANTEE

Total System Balance Includes the Following:

A. Preconstruction services including: 1. Preliminary plan review and report (Chapter 25)

B. All performance testing and/or balancing of the air conditioning include:

1. Supply air systems. - General (Chapter 17)

2. Low pressure air systems. - (Chapter 18)

3. Medium and high pressure air systems. (Chapter 19)

4. Return and exhaust air systems. (Chapter 21)

5. Special systems (Chapter 23) including: a. Sound

b. Vibration

c. Combustiond. Duct Leakage

6. Temperature control system. (Chapter 24) 7. Report and report forms. (Chapter 26)

C. On-line total system performance verification.

NOTE: Chapters referred to herein are detailed in the NATIONAL STANDARDS MANUAL OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC).

D. Selection of the Test and Balance Agency

1. By Mechanical Contractor: Total system balance shall be performed by an independent, non-affiliated agency certified by the Associated Air Balance Council (AABC) or NEBB which specializes in and whose business is dedicated to testing, adjusting and verification of the HVAC system performance. The submittal of unbiased reports shall be timely upon completion of work. This work shall conform to AABC specifications referred to in Chapters 17 through 26 of the AABC National Standard (1989 Edition) and other criteria as set forth in this specification.

a. The contractor shall select the Test and Balance Agency from a list of pre-qualified agencies which is available on request from the consulting engineer acting for the owner. The name of the selected Test and Balance Agency, plus the name and registration number of the certified Test and Balance Engineer, shall be submitted to the owner's representative for approval within ninety (90) days after award of the project contract.

b. Test and Balance Agencies not pre-qualified must submit at least fifteen (15) days prior to commencement of work, proof of ability to meet the specifications and of having completed at least five (5) projects of similar size and scope.

Balance the supply, return, and exhaust air systems to within ±5% of design air flow, by first arriving at the fan total air quantity, reading air velocities at cooling coils, return, exhaust air and outside air openings; and a duct traverse. The fan RPM shall then be adjusted for the specified air quantities allowing for a maximum of 2 The quantity of air to each outlet shall not be less than that shown on the drawings and not greater than 5% of that amount. If so instructed by the Mechanical Engineer, further balancing of temperatures shall be made and indicated by a thermometer or by the temperature recorder.

F. Perform Pitot Tube Traverse of all supply, return and exhaust systems.

1. Except as specifically indicated herein, Pitot Tube Traverse shall be taken in branch ducts to assure specified flow to all zones. Pitot tubes, associated instruments, traversing and testing techniques shall conform to the ASHRAE Handbook of Fundamentals.

2. Pitot Tube traverse may be omitted:

than 1700 CFM.

a. Where the duct serves only a single room or the space and it's design volume is less

3. Test holes shall be in a straight duct, as far as possible downstream from the elbows, bends, take-offs and other turbulence generating devices, to optimize reliability of flow measurements.

G. Furnish typewritten data for all air handling systems tabulating (inclusive of existing):

1. Quantity of air in CFM at each air outlet or inlet.

2. Dry and wet bulb temperatures at each thermostat to the nearest 1/10 of 1 degree.

3. Outdoor dry and wet bulb temperatures, wind direction and velocity, and barometric pressure at the time tests are conducted.

4. RPM of fan or blower

5. RPM of motor.

6. Ampere input of each motor (one reading on each leg if three (3) phase)

7. Load Amperage and Brake Horsepower calculations on all motors ½ horsepower or larger.

8. Static pressure in inches water gauge at inlet of fan or blower.

9. Duct Traverse data. H. The Air Balance Agency shall prepare a complete set of full scale drawings showing actual duct runs and outlet/inlet locations. Drawings shall be keyed to and furnished with the Air Balance Report. The mechanical plans are not acceptable for this purpose.

3.02 At the conclusion of tests, and after the acceptance by the engineer, system shall be turned over to Owner and a guarantee period of one (1) year will commence. This guarantee will cover all equipment installed under this contract and, during the guarantee period, all defects shall be remedied without cost to the Owner. A knowledgeable representative of the contractor shall, at the time of turnover, instruct the designated representative of the Owner in the proper operation and maintenance and shall supply him with three copies of all maintenance and operating instructions of the installed equipment neatly bound in three separate folders.

END OF SECTION

	PLUMBING EQUIPMENT SCHEDULE								
MARK	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NUMBER	REMARKS					
WH 1	WATER HEATER - INSTANTANEOUS	S-2	CHRONOMITE - #SR-#30, 6240 WATTS, 208V/1PH., 40 AMPS, 1.0 GPM FLOW RATE AT 57 DEGREE TEMP RISE.	WATER HEATER IS A NON-STORAGE DEVICE AND DOES NOT REQUIRE A PRESSURE AND TEMP RELIEF VALVE					
WH 2	WATER HEATER - INSTANTANEOUS	EXEC RR LAV	CHRONOMITE - #SR-#20L, 4160 WATTS, 208V/1PH., 20 AMPS, 0.5 GPM FLOW RATE AT 57 DEGREE TEMP RISE.	WATER HEATER IS A NON-STORAGE DEVICE AND DOES NOT REQUIRE A PRESSURE AND TEMP RELIEF VALVE					
GD 1	GARBAGE DISPOSAL	SINK S-1	INSINKERATOR - BADGER 5, ½ HP, 120V/1PH., STAINLESS STEEL CONSTRUCTION.						

PLUMBING PLAN CHECK NOTES

AREA SEPARATION WALLS

- A. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY. FIRE STOPPING SHALL BE PER C.B.C. SECTION 709.6
- B. NO RANGE HOOD VENTS, DRYER VENTS, COMBUSTION VENTS OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS

ENERGY CONSERVATION (PLUMBING)

- A. ALL WATER HEATERS SHALL BE LISTED IN THE CALIFORNIA ENERGY COMMISSION LIST OF APPROVED WATER HEATERS.
- ALL PLUMBING FIXTURES, FAUCETS AND SHOWER HEADS SHALL COMPLY WITH CEC MAXIMUM FLOW REQUIREMENTS PER MINUTE. (2.2 GPM FOR FAUCETS) (2.5 GPM FOR SHOWER-HEADS) (1.5 GPF FOR WATER CLOSETS) (1.0 GPF FOR URINALS) LAVATORY FAUCETS IN RESTROOM'S SHALL BE THE SELF CLOSING TYPE. PROVIDE MIXING VALVES AT SHOWER CONTROLS.
- C. ALL SERVICE HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH SECTIONS 118, 123 & 124 OF THE 1995 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS AND TABLE 6.d OF THE 2010 C.M.C.
- D. A MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIP- MENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE. THE LABEL SHALL INDICATE ROUTINE MAINTENANCE REQUIRED OR SHALL REFERENCE BY NUMBER WHICH OPERATING MANUALS EXPLAIN MAINTENANCE REQUIREMENTS IN GREATER DETAIL.
- E. ALL EQUIPMENT MUST COMPLY WITH THE STATE OF CALIFORNIA B.E.E.S. 2009. HEATERS FOR DOMESTIC HOT WATER AND/OR POOLS SHALL MEET REQUIREMENTS PER LATEST SECTIONS OF THE B.E.E.S. 2009. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS
- F. WATER HEATERS SHALL COMPLY WITH SECTION 608.3 C.P.C. 2010 FOR THERMAL EXPANSION REQUIREMENTS. PRO- VIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE. A MINIMUM DISTANCE OF 4" MUST BE MAINTAINED ABOVE THE CONTROLS WITH THE LOWER SEISMIC STRAPPING OF THE WATER HEATER.

MATERIALS & PIPING IDENTIFICATION

- A. PLEASE SEE PLUMBING SPECIFICATIONS
- B. STATE & HEALTH SAFETY CODE SEC. 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR WATER-SUPPLY PIPING.
- C. IDENTIFICATION OF POTABLE AND NON-POTABLE WATER PIPES & OUTLETS SHALL COMPLY WITH SECTION 614.0 OF THE CPC.

HOSE BIBBS

A. ALL HOSE BIBBS SHALL HAVE PERMANENTLY MOUNTED VACUUM BREAKERS.

FLOOR SINKS & FLOOR DRAINS

- A. ALL FLOOR SINKS SHALL BE USED FOR A.C. CONDENSATE, P & T RELIEF VALVES AND EQUIPMENT DRAINS ONLY. NO OTHER USES SHALL BE ALLOWED UNLESS APPROVED BY LOCAL BUILDING DEPARTMENT.
- B. VENTS MUST RISE MINIMUM 5" ABOVE THE FLOOD LEVEL RIM OF THE FIXTURES THEY SERVE BEFORE OFFSETTING HORIZONTALLY.

CROSS CONNECTION PROTECTION

A. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.

GENERAL NOTE

ALL PLUMBING FIXTURES, EQUIPMENT AND TRIM SHALL BE OF LEAD-FREE CONSTRUCTION COMPLYING WITH AB-1953 STANDARDS.

WATER PRESSURE ANALYSIS					
TOTAL FIXTURE UNITS ON METER	24.5				
DEMAND FLOW (GPM)	17				
MAIN PRESSURE (PSIG)	-				
PRESSURE AT METER DISCHARGE (PSIG)	-				
PRESSURE DROP THRU BACKFLOW PREVENTER (PSIG)	10				
REGULATED PRESSURE (PSIG)	60				
DIFFERENCE IN ELEVATION PRESS. DROP (PSIG)	7				
RESIDUAL PRESSURE REQUIRED (PSIG)	25				
PRESSURE AVAILABLE FOR DROP (PSIG)	28				
LONGEST DEVELOPED RUN OF PIPE (FEET)	150				
MAXIMUM ALLOWABLE PRESSURE DROP (PSIG/100 FT.)	18				

WATER PIPE SIZE SCHEDULE							
SIZE	GPM	FT./SEC.	FT-FU	FV-FU			
1/2"	3	8 MAX.	4	0			
3/4"	10	8 MAX.	12	0			
1"	17	8 MAX.	24	3			
1 1/4"	30	8 MAX.	52	14			

PLUMBING LEGEND												
SYMBOL	ABBR.	DESCRIPTION										
	W./S.	NEW WASTE OR SOIL PIPING BELOW GRADE										
	W./S.	NEW WASTE OR SOIL PIPING ABOVE GRADE. VENT PIPING										
	V											
	W./S.	EXISTING WASTE OR SOIL PIPING BELOW GRADE.										
	CW	COLD WATER PIPING										
	HW	HOT WATER PIPING										
	HWR	HOT WATER RETURN PIPING										
— CD—	COND.	CONDENSATE DRAIN PIPING										
<u></u> —Ю—	S.O.V.	SHUT-OFF VALVE										
—√—	PV	PLUG VALVE										
→	CV	CHECK VALVE										
────	PRV	PRESSURE REDUCING VALVE										
─		DIRECTION OF FLOW										
- −Ø	FCO	FLOOR CLEANOUT										
\dashv I	WCO	WALL CLEANOUT										
•	POC	POINT OF CONNECTION										
J∣L	VTR	VENT THRU ROOF										
─ ₩─	B.V.	BALANCING VALVE										
	WHA	WATER HAMMER ARRESTOR										
——ТР——	TP	TRAP PRIMER LINE										

PIPE MATERIALS SCHEDULE

SANITARY WASTE & DRAIN PIPING: (ABOVE & BELOW GRADE)

SCHEDULE 40, SOLID CORE ABS OR SANITARY PVC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS.

SAME AS SANITARY WASTE

VENT PIPING

DOMESTIC COLD & HOT WATER PIPING:

ATER PIPING: TYP

TYPE "L" HARD DRAWN, COPPER PIPE & FITTINGS WITH LEAD FREE SOLDER JOINTS. (INSULATE HOT WATER & CIRCULATION

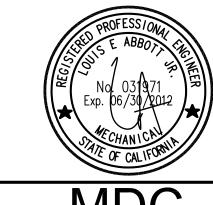
PIPING)

CONDENSATE DRAIN PIPING: (ABOVE GRADE)

(ABOVE GRADE)

TYPE "M" HARD DRAWN, COPPER PIPE & FITTINGS WITH LEAD FREE SOLDER JOINTS. (INSULATE PIPE WITHIN THE BUILDING)

Appliances, Appurtances or Fixtures	Minimum Fixture Branch Pipe Size	Private	Public	Assembly	х	# Fixtures Added	# Fixtures Removed	# Fixtures Remaining	TOTAL ACROSS ±
Bathtub or Combination Bath /Shr (fill)	1/2"	4.0	4.0	-	Х				
3/4" Bathtub Fill Valve	3/4"	10.0	10.0	-	Х				
Bidet	1/2"	1.0	-	-	Х				
Clothes Washer, domestic	1/2"	4.0	4.0	-	Х				
Dental Unit, cuspidor	1/2"	-	1.0	-	Х				
Dishwasher, domestic	1/2"	1.5	1.5	-	Х				
Drinking Fountain or Water Cooler	1/2"	0.5	0.5	0.75	Х				
Hose Bib	1/2"	2.5	2.5	-	Х		1		+0
Hose Bib, each additional	1/2"	1.0	1.0	-	Х				
Lavatory	1/2"	1.0	1.0	1.0	х	2	2		+0
Lawn Sprinkler, each head	-	1.0	1.0	-	Х				
Mobile Home, each (Minimum)	-	12.0	-	-	Х				
Bar Sink	1/2"	1.0	2.0	-	х	2	2		+2
Clinic Faucet Sink	1/2"	-	3.0	-	Х				
Clinic Flushometer Valve with or without faucet	1"	-	8.0	-	х				
Kitchen Sink, domestic	1/2"	1.5	1.5	-	х				
Laundry Sink	1/2"	1.5	1.5	-	Х				
Service Sink or Mop Basin	1/2"	1.5	3.0	-	х			1	+0
Washup Sink, each set of faucets	1/2"	-	2.0	-	Х				
Shower, per head	1/2"	2.0	2.0	-	Х				
Urinal, .50 GPF Flushometer Valve	3/4"	-	5.0	4.0	х	1	1		+0
Urinal, greater than 1.0 GPF Flush Valve	3/4"	-	5.0	6.0	х				
Urinal, flush tank	1/2"	2.0	2.0	3.0	Х				
Washfountain, circular spray	3/4"	-	4.0	-	х				
Water Closet, 1.28 GPF Gravity Tank	1/2"	2.5	2.5	3.5	х	2			+5
Water Closet, 1.6 GPF Flushometer Tank	1/2"	2.5	2.5	3.5	X		2		-5
Water Closet, 1.6 Flushometer Valve	1"	5.0	5.0	8.0	х				
Water Closet, 1.28 Flushometer Valve	1"	5.0	5.0	8.0	Х				
Water Closet, >1.6 Gravity Tank	1/2"	3.0	5.5	7.0	х				
Water Closet, >1.6 GPF Flushometer Valve	1"	5.0	5.0	8.0	Х				



Marino Design Consulting, Inc.
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AHA FINANCIA WOODLAND DRIVE

DETAILS MARKS 25

PLUMBING SCHEDULES, LEGEND, NOTES & DE

DATE

DATE

REMARKS

10-31-11

PLAN CHECK SUBMITTAL

REMARKS

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PLAN CHECK SUBMITTAL

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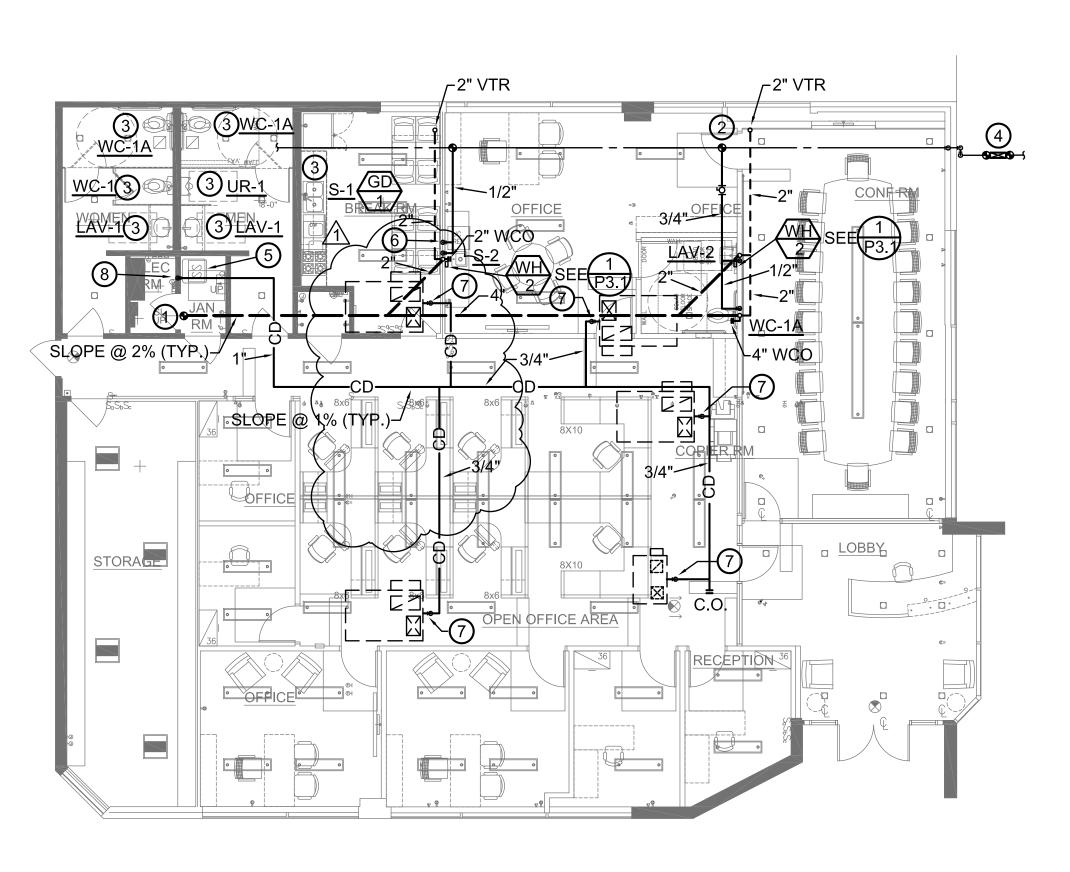


PLUMBING FLOOR PLAN - DEMOLITION



DEMOLITION NOTES

- 1 REMOVE EXISTING FLUSH TANK WATER CLOSET. REPLACE WITH NEW IN SAME LOCATION.
- 2 REMOVE EXISTING URINAL AND TRIM. REPLACE WITH NEW IN SAME LOCATION.
- 3 REMOVE EXISTING LAVATORY AND TRIM. REPLACE WITH NEW IN SAME LOCATION.
- 4 REMOVE EXISTING SINK, GARBAGE DISPOSAL AND TRIM. REPLACE WITH NEW IN SAME LOCATION.
- 5 EXISTING JANITORS SINK TO REMAIN.



PLUMBING FLOOR PLAN - NEW WORK

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

SHEET NOTES

- 1) POC OF NEW WASTE OR SOIL PIPING TO EXISTING BELOW GRADE. (VERIFY EXACT LOCATION, SIZE AND INVERT IN FIELD).
- 2 POC OF NEW COLD WATER PIPING TO EXISTING ABOVE CEILING. (VERIFY EXACT LOCATION IN FIELD).
- 3 INSTALL NEW PLUMBING FIXTURE IN PLACE OF REMOVED FIXTURE. CONNECT TO EXISTING UTILITIES WITHIN WALL AND OR FLOOR.
- NEW 1 1 /4" REDUCED PRESSURE BACKFLOW PREVENTER WITHIN LANDSCAPING. "WATTS SERIES 009" OR EQUAL.
- 5 EXISTING SERVICE SINK TO REMAIN.
- 6 1/2" ICE TO ICE MAKER VALVE BOX.
- 7 3/4" CONDENSATE DRAIN UP TO HEAT PUMP ON ROOF. SEE $\binom{2}{P3.1}$
- 8 TERMINATE 1" CONDENSATE DRAIN AT SERVICE SINK.



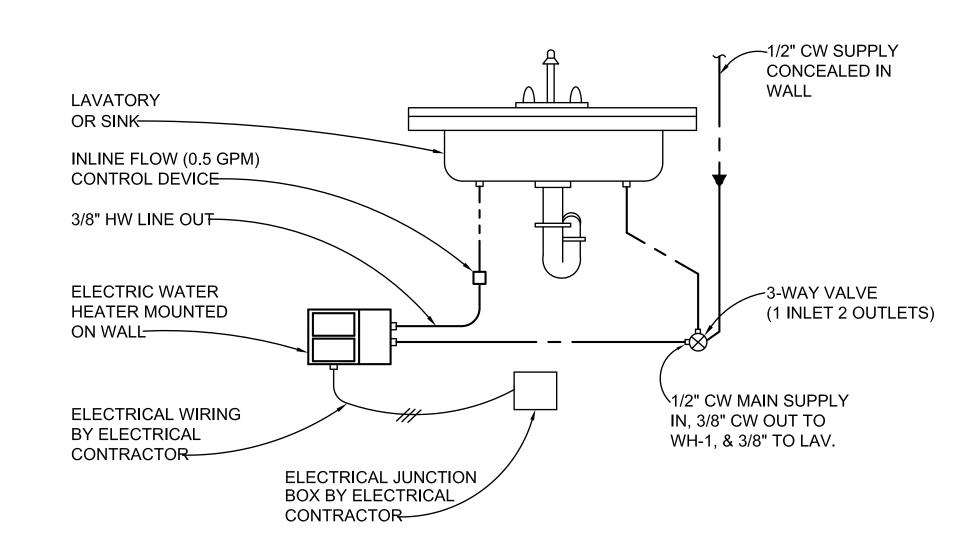
WARE Leading Design

PA / PM: DRAWN BY:

JOB NO.: SDG11-6080-00

VENT OR PIPE THRU ROOF DETAIL

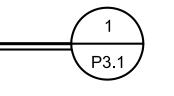
NO SCALE



NOTE:
WATER HEATER IS U.L. LISTED & DOES NOT REQUIRE A P&T RELIEF VALVE & DRAIN LINE
CONTRACTOR TO CONCEAL HEATER AND CONNECTIONS UNDER COUNTER.

INSTANTANEOUS WATER HEATER DETAIL
NO SCALE

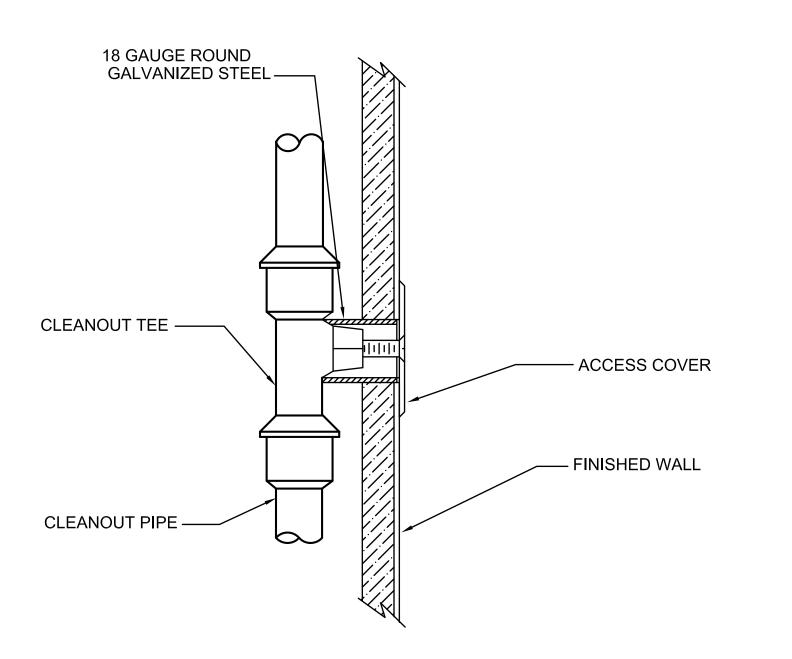
P3.1



CONDENSATE TRAP DETAIL

NO SCALE

P3.1





Marino Design Consulting, Inc.
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www.mdcmechanical.com

WALL CLEANOUT DETAIL
NO SCALE

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PLUMBING DETAILS

REMARKS
PLAN CHECK SUBMITTAL

PLAN CHECK SUBMITTAL

PA / PM: TENGLISH

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JOB NO.: SDG11-6080-00

P3.1

- 1. HOLD HORIZONTAL, PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS, UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FROM CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY, OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OF PIPING AND FLUID. EXCEPT FOR BURIED PIPING, HANG AND SUPPORT PIPE RUNS SO THEY MAY EXPAND OR CONTRACT FREELY WITHOUT STRAIN TO PIPE OR EQUIPMENT.
- a. HORIZONTAL STEEL PIPING: PROVIDE HANGERS OR SUPPORTS EVERY 10 FEET EXCEPT EVERY 8 FEET FOR PIPING 1-1/4 INCH AND SMALLER.
- b. HORIZONTAL SOIL AND WASTE PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH SIDE OF FITTING. PROVIDE ANTI-SEPARATION OF BRACING AT EACH 90 DEGREE CHANGE OF DIRECTION
- c. VERTICAL PIPING: SUPPORT AT FLOOR WITH IRON PIPE CLAMPS. PROVIDE PLASTIC COATED TYPE FOR COPPER PIPING.
- d. BRANCHES: PROVIDE SEPARATE HANGERS OR SUPPORTS FOR BRANCH LINES 6 FEET OR MORE IN LENGTH.
- 2. SOUND ELECTROLYSIS ISOLATORS: PROVIDE AT ALL HANGERS AND SUPPORTS FOR HOT AND COLD DOMESTIC WATER LINES. SECURELY ATTACH PIPE TO WALLS, STUDS, ETC. ALL SUCH PIPING ISOLATED FROM STRUCTURE WITH SEMCO TRISOLATORS.
- 3. HANGERS SHALL BE COMPLETE WITH THREADED STEEL RODS AND ISOLATORS AS REQUIRED AND HERE-IN-AFTER SPECIFIED.
- a. 2 INCH AND SMALLER: SUPER STRUT C-727-F.
- b. CONCRETE INSERTS: SUPER STRUT 452.
- c. RISER CLAMPS FOR COPPER PIPING: SUPER STRUT CT-720-P PLASTIC COATED.
- d. RISER CLAMPS FOR OTHER PIPING: SUPER STRUT C-720.
- 4. HANGER RODS CONFORM TO THE FOLLOWING TABLE:
- a. PIPE SIZE 2 INCH AND SMALLER 3/8 INCH RODS.
- b. PIPE SIZE 2-1/2 INCH AND 3 INCH 1/2 INCH RODS.
- c. PIPE SIZE 4 INCH AND LARGER 5/8 INCH RODS.

E. ROOF FLASHING

D. PIPE HANGERS

1. SANITARY VENT FLASHINGS:

SEMCO 1100-3 OR 1100-5, WITH ONE PIECE LEAD FLASHING AND COUNTERFLASHING SI FEVE.

2. OTHER PIPE THROUGH ROOF FLASHING:

SEMCO 1100-2 OR 1100-4, ONE PIECE 4 LB. LEAD FLASHING AND COUNTERFLASHING

F. PIPE SLEEVES

- 1. PROVIDE A DRAWING FOR THE STRUCTURAL CONTRACTOR SHOWING AND DIMENSIONING PIPE PENETRATIONS THROUGH CONCRETE FLOORS, INCLUDING PARKING CEILING. LOCATE AND SET PIPE PENETRATION SLEEVES IN SLAB PRIOR TO POURING.
- 2. AT CONCRETE WALLS OR FLOORS, ADJUST-TO-CRETE, PARAMOUNT, HOLE-OUT OR SPERZEL CRETESLEEVE. FLOOR SLEEVES SHALL EXTEND TO TOP OF CONCRETE CURBS FOR PIPING. RISING THROUGH FLOORS. WALL SLEEVES SHALL BE FLUSHED WITH FINISHED SURFACE. SLEEVES SHALL BE SIZED TO ALLOW 1/2" CLEARANCE AROUND PIPE INSULATION. INSULATION AND COVERING SHALL BE CONTINUOUS THROUGH WALL AND FLOOR SLEEVES.

G. CLEANOUTS

IRON BODY WITH EXTRA-HEAVY BRONZE PLUGS SCREWED INTO CAULKING FERRULES; FOR STEEL PIPE, EXTRA. WHERE CLEANOUTS OCCUR IN FINISHED INTERIOR WALLS, PROVIDE ACCESS PANELS, PLATES, AND FRAMES FOR FLUSH MOUNTING. EXPOSED PARTS OF FLOOR CLEANOUTS SHALL HAVE ADJUSTABLE TOP. ALL CLEANOUTS AND CLEANOUT PLUGS SHALL BE ACCESSIBLE. CLEANOUTS SHALL BE THE FOLLOWING:

1.08 EXISTING CONDITIONS

1. INTERIOR:

- A. TILE WALL, PLASTERED AND/OR DRYWALL TYPE FOR CAST-IRON PIPE: ZURN Z-1441 WITH STAINLESS STEEL ACCESS COVER OR APPROVED EQUAL.
- B. FLOOR LEVEL TYPE IN FINISHED AREAS: ZURN Z-1400-ZB, WITH POLISHED BRONZE TOP OR APPROVED EQUAL.
- C. FLOOR LEVEL TYPE IN FINISHED AREAS WITH WATERPROOFING MEMBRANE: ZURN Z-1400-KC-ZB, WITH POLISHED BRONZE TOP OR APPROVED EQUAL.
- D. GRADE LEVEL TYPE OUTSIDE BUILDING: ZURN Z-1406 OR APPROVED EQUAL

H. PRESSURE TEMPERATURE RELIEF VALVE

1. PROVIDE WATER HEATER WITH ASME RATED PRESSURE/TEMPERATURE RELIEF VALVE SET TO RELIEVE AT 125 PSI PRESSURE AND AT 188 TO 208 DEGREES F TEMPERATURE RANGE.

I. INSULATION

- 1. ALL PIPE INSULATION SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS. INSULATION THICKNESSES IN THE RANGE OF R-4.0 TO R-4.6 PER INCH THICKNESS ON A FLAT SURFACE AT A MEAN TEMPERATURE OF 75 DEGREES F. THICKNESSES INDICATED ARE MINIMUM AND SHALL BE INCREASED PROPORTIONATELY FOR MATERIALS HAVING R VALUES LESS THAN 4.00 PER INCH OF THICKNESS OR MAY BE REDUCED FOR MATERILAS HAVING R VALUES GREATER THAN 4.6 PER INCH THICKNESS. INSTALL PIPE INSULATION AFTER PIPING IS INSTALLED, TESTED AND APPROVED AND IS IN CLEAN, DRY CONDITON. FIRMLY BUTT INSULATION IN INSULATION.
- 2. INSULATE ALL HOT WATER PIPING (SUPPLY AND RETURN) WITH GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 650 AP, 1 INCH THICK FOR PIPE SIZES TO 1-1/4 INCH AND LARGER. INSULATE FITTINGS AND VALVES WITH PREFORMED INSULATION WITH PVC PREMOLDED ONE PIECE FITTING COVER, J.M. ZESTON COVER. ADHERE LONGITUDINAL LAPS AND BUTTS OF STRIPS OF JACKET WITH FACTORY APPLIED PRESSURE SENSITIVE TAPE SYSTEM, J-M APT-T. FLANGES AND UNIONS SHALL NOT BE COVERED.

J. PLUMBING FIXTURES

1. GENERAL: PLUMBING FIXTURES, TRIM AND EXPOSED SUPPLIES AND WASTES SHALL BE BRASS WITH POLISHED CHROME PLATED FINISH. PROVIDE INDIVIDUAL LOOSE KEY STOPS OR, IF SO SPECIFIED, SCREW DRIVER STOPS FOR SUPPLIES AND, UNLESS INTEGRAL WITH VALVES OR FAUCETS, MOUNT UNDER FIXTURE. SEPARATELY TRAP ALL WASTES. PROVIDE EXPOSED SUPPLIES AND WASTES TO WALL WITH POLISHED CHROME PLATED CAST BRASS WALL ESCUTCHEONS.

- 2. FLOOR MOUNTED WATER CLOSETS: MAKE JOINTS PERMANENTLY GAS AND WATER TIGHT.
- 3. GENERAL: PLUMBING FIXTURES, TRIM AND EXPOSED SUPPLIES AND WASTES SHALL BE BRASS WITH POLISHED CHROME PLATED FINISH. PROVIDE INDIVIDUAL LOOSE KEY STOPS.
- 4. FIXTURES, TRIM AND ACCESSORIES: AS INDICATED ON THE DRAWINGS.

PART 3.00 - EXECUTION

3.01 INSTALLATION

- A. THE WORD "PIPING" IN THIS PARAGRAPH MEANS PIPE, FITTINGS, NIPPLES, VALVES AND ACCESSORIES PERTINENT TO MAINS AND CONNECTIONS THROUGHOUT THE WORK.
- B. THE CONTRACTOR SHALL BE PROMPT IN INSTALLING ALL PIPING AFTER EXCAVATION OR CUTTING FOR SAME, SO AS TO KEEP ALL EXCAVATIONS FOR THIS WORK OPEN AS SHORT A TIME AS POSSIBLE. NO PIPING, HOWEVER, SHALL BE PERMANENTLY CLOSED UP, FURRED IN OR COVERED BEFORE INSPECTION AND APPROVAL OF SAME BY ARCHITECT OR HIS REPRESENTATIVE.
- C. COVER OR PLUG ALL OPENINGS IN PIPES, FITTINGS, APPARATUS OR EQUIPMENT AT THE END OF EACH WORK DAY. ALL WATER PIPING SHALL BE GUARDED AND VALVED TO PROVIDE FOR DRAINAGE AND CONTROL OF THE SYSTEM. NO SOIL, WASTE OR WATER PIPING SHALL BE INSTALLED SO AS TO CAUSE UNUSUAL NOISE FROM FLOW OF WATER UNDER NORMAL CONDITIONS
- D. ALL PIPING, EXCEPT AS SHOWN OTHERWISE ON PLANS OR AS INSTRUCTED OTHERWISE BY THE ARCHITECT, SHALL BE RUN CONCEALED IN FURRED WALLS, PARTITIONS, FURRED CEILINGS, ETC. WHERE PIPING IS EXPOSED, IT SHALL BE RUN ADJACENT TO WALLS OR PARALLEL TO CONSTRUCTION IN NEAT AND ORDERLY FASHION AS DIRECTED BY THE ARCHITECT.
- E. EACH PIECE OF PIPE AND EACH FITTING SHALL BE INSPECTED INSIDE AND OUTSIDE TO SEE THAT THERE ARE NO DEFECTS OR OBSTRUCTIONS WITHIN SAME; ALL STEEL PIPES SHALL BE THOROUGHLY END-REAMED AND ALL BURRS SHALL BE REMOVED. JOINTS IN SCREWED PIPE SHALL BE MADE UP WITH AN APPROVED PIPE JOINT COMPOUND APPLIED TO MAKE MALE THREAD ONLY WITH NOT MORE THAN TWO THREADS LEFT EXPOSED.
- NO BUSHINGS OR CLOSE NIPPLES SHALL BE USED, REDUCING FITTINGS AND SHOULDER NIPPLES SHALL BE USED IN ALL CASES.
- G. COPPER TUBING SHALL BE CUT SQUARE AND ENDS SHALL BE REAMED TO FULL SIZE OF TUBING WITH ALL BURRS REMOVED. TUBING ENDS AND FITTINGS SOCKETS SHALL BE BURNISHED WITH EMERY CLOTH OR WIRE BRUSH BEFORE A UNIFORM COAT OF NON-CORROSIVE TYPE SOLDERING FLUX IS APPLIED. THE JOINT SHALL BE MADE PROMPTLY AND SURPLUS SOLDER AND FLUX SHALL BE WIPED CLEAN.
- H. ALL PIPING SHALL BE ACCURATELY CUT TO LENGTH. NO PIPING SHALL BE FORCED OR SPRUNG INTO PLACE. ALL OFF-SETS SHALL BE MADE WITH FITTINGS AND BENDING OF PIPES SHALL NOT BE ALLOWED.
- ALL PIPING SHALL BE ISOLATED FROM HANGERS BY USING HAIR FELT, 1/4" THICK, BETWEEN HANGERS AND/OR PLASTIC TWO-HOLD PIPE CLAMPS, PIPE INSULATORS AND SUSPENSION OLAMPS
- J. SET ALL DRAIN GRATES PARALLEL TO WALLS.
- K. SANITARY SYSTEM: INSTALL ALL SOIL, WASTE AND VENT PIPING FOR ALL FIXTURES AND OUTLETS AS SHOWN ON DRAWINGS. PIPING SHALL BE SUPPORTED AND STRAPPED IN AN APPROVED MANNER. SUPPORTS ON SANITARY PIPING IN AND UNDER THE BUILDING SHALL RUN TO A UNIFORM GRADE. CONTRACTOR SHALL VERIFY THE POINT OF CONNECTION AS SHOWN ON DRAWINGS REGARDING INVERT ELEVATION AND LOCATION BEFORE STARTING WORK. WASTE LINES SHALL NOT PENETRATE SHEAR WALL TOP AND BOTTOM PLATES.
- CLEANOUTS SHALL BE INSTALLED WHERE SHOWN AND REQUIRED, SHALL BE ACCESSIBLE, AND WHERE POSSIBLE SHALL BE EXTENDED TO OUTSIDE WALL, AND SHALL BE BROUGHT TO GRADE ON FLOOR SURFACE WITH "Y" 1/8 BEND. WASTE AND SOIL LINES, IN, UNDER, AND EXTERIOR TO BUILDINGS SHALL BE PROVIDED WITH CLEANOUTS AT ALL BENDS TOTALING MORE THAN 45 DEGREES AT UPPER TERMINALS, AT CHANGES IN PIPE SIZES AND NOT OVER 100 FEET APART IN ANY LINEAL RUN OF PIPING.
- CLEANOUTS IN FLOOR ON GRADE, CONCRETE AREAS SHALL SET FLUSH WITH FINISHED FLOOR. CLEANOUT PLUGS SHALL BE LIBERALLY LUBRICATED WITH GRAPHITE, TURNED TIGHT AND BACKED OFF SLIGHTLY. CLEANOUTS LOCATED IN AREAS OF HEAVY TRAFFIC OR FORKLIFT USE SHALL BE EXTRA HEAVY DUTY.
- WATER SYSTEM: EXTEND WATER SERVICES TO ALL FIXTURES, HOSE BIBBS, ETC., AS SHOWN ON DRAWINGS. ALL BRANCHES TO FIXTURES SHALL BE VALVED. SIGNLE FIXTURE LINES SHALL BE VALVED. WHERE SUPPLIES ARE CONCEALED, OR WHERE INDICATED, LOOSE-KEY STOPS SHALL BE INSTALLED. DROP EAR FITTINGS WITH RED BRASS NIPPLES SHALL BE PROVIDED AT ALL OUTLETS.
- 1. PIPING IN GENERAL SHALL BE RUN AS SHOWN ON DRAWINGS WITH EXACT LOCATION AS
- DESIGNATED BY ARCHITECT OR HIS AUTHORIZED REPRESENTATIVES.

 2. LINES SHALL BE INSTALLED IN A SEPARATE TRENCH EXCEPT AS DETAILED ON DRAWINGS. LINES CROSSING OTHER SERVICES SHALL HAVE A MINIMUM SEPARTION OF 12" VERTICALLY. GENERALLY THE WATER LINE WILL BE OFFSET OVER THE SANITARY WHEN THEY
- ARE LESS THAN 36" BELOW FINISH GRADE.

 3. COPPER LINES SHALL BE ISOLATED FROM ALL DISSIMILAR METAL AND EQUIPMENT WITH DIELECTRIC COUPLINGS. DIELETRIC COUPLINGS SHALL BE USED FOR ALL CONNECTIONS BETWEEN PIPE OR TUBING AND ALL HOT WATER EQUIPMENT BOTH IN INLETS AND OUTLETS
- O. HOLD HORIZONTAL PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS, UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FORM CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OR PIPING AND FLUID. EXCEPT FOR BURIED PIPING, HANG OR SUPPORT PIPE RUNS SO THAT THEY MAY EXPAND OR CONTRACT FREELY WITHOUT STRAIN TO PIPE OR EQUIPMENT.
 - 1. ALL WATER PIPING SHALL BE EQUIPPED WITH SEMCO-TRISOLATOR OR EQUAL AT EACH PIPE HANGER AND SUPPORT OR WHEREVER PIPING CONTACTS THE STRUCTURE.
 - 2. IN ADDITION TO ABOVE HANGERS, PIPING SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, AT ENDS OF BRANCHES, AT BASE AND TOP OF RISERS AND WHEREVER NECESSARY TO PREVENT SAGS, BENDING OR VIBRATION.
- P. HANGERS: PIPING IN GENERAL SHALL BE SUPPORTED WITH 3/8" SOCKET ANF RODS, SUSPENDED FROM 1/2" X 2" X 2" ANGLE CLIPS 3-1/2" LONG SECURED TO STRUCTURE WITH NOT LESS THAN 2 NO. 6 DRIVE SCREWS, 2" LONG. HANGERS SHALL BE GRINNELL FIGURE 115 SPLIT RING FEE & MASON NO. 215 OR EQUAL WITH TURNBUCKLE ADJUSTED FOR THREADED ROD. PROVIDE LATERAL SWAY BRACING FOR EACH THIRD HANGER ROD.
 - ALL WATER PIPING SHALL BE EQUIPPED WITH SEMCO-TRISOLATOR OR EQUAL AT EACH PIPE HANGER AND SUPPORT OR WHEREVER PIPING CONTACTS THE STRUCTURE.
 - 2. PIPING PARTITIONS SHALL BE STRAPPED IN AN APPROVED MANNER WITH 2 HOLE CLAMPS. THE USE OF PLUMBERS TAPE SHALL NOT BE PERMITTED.
 - 3. IN ADDITION TO ABOVE HANGERS, PIPING SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, AT ENDS OF BRANCHES, AT BASE AND TOP OF RISERS AND WHEREVER NECESSARY TO PREVENT SAGS, BENDING OR VIBRATION.

Q. ESCUTCHEONS: PROVIDE CHROMIUM PLATED BRASS ESCUTCHEONS AT ALL LOCATIONS WHERE PIPE PASSES THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS. PROVIDE IRON ESCUTCHEONS IN UNFINISHED AREAS.

3.02 HAZARDOUS MATERIALS

- A. THE OWNERS REPRESENTATIVE SHALL BE RESPONSIBLE TO IDENTIFY ALL ASBESTOS MATERIALS IN EACH OF THE WORK AREAS PRIOR TO THE COMMENCEMENT OF THE INSTALLATION WORK.
- B. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ANY ADDITIONAL MATERIALS ON THE SITE, THAT HE HAS REASON TO BELIEVE TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PCB), OR OTHER HAZARDOUS MATERIALS, WHICH HAVE NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED, AND REPORT THE CONDITION TO OWNER, AND PROJECT ENGINEER IN WRITING.
- C. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED THEREAFTER, UNTIL THE MATERIALS HAVE BEEN RENDERED HARMLESS AND WRITTEN AGREEMENT IS MADE BETWEEN THE CONTRACTOR AND THE OWNER.

3.03 STERILIZATION

A. CLEAN AND STERILIZE WATER SUPPLY AND DISTRIBUTION SYSTEM AS REQUIRED BY CODE. PROVIDE CERTIFICATE TO ARCHITECT.

3.04 FIELD QUALITY CONTROL & TESTS

- A. PERFORM TESTS TO ARCHITECTS SATISFACTION. MAKE TESTS IN PRESENCE OF ARCHITECT AND AT A TIME SUITABLE TO HIM IF REQUESTED. FURNISH NECESSARY LABOR AND EQUIPMENT AND BEAR COSTS FOR TESTING, COST OF REPLACING AND/OR REPAIRING DAMAGE RESULTING THEREFROM SHALL BE BORNE BY THIS CONTRACTOR. SHOULD THIS CONTRACTOR REFUSE OR NEGLECT TO MAKE TESTS NECESSARY TO SATISFY THE ARCHITECT THAT REQUIREMENTS OF SPECIFICATIONS AND DRAWINGS ARE MET, SUCH TESTS MAY BE MADE BY AN INDEPENDENT TESTING COMPANY AND THIS CONTRACTOR CHARGED FOR ALL EXPENSES.
- HYDROSTATIC TESTS: MAKE BY COMPLETELY FILLING PIPING SYSTEM WITH WATER AND ELIMINATING ACCUMULATIONS OF AIR SO THAT LEAKAGE, NO MATTER HOW SMALL, WILL BE APPARENT ON TEST GAUGE IMMEDIATELY, BUT IN NO CASE LESS THAN 24 HOURS.
- ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE PRESSURE TESTED TO THE APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND MINIMUM STANDARDS, AS FOLLOWS:

SYSTEM TEST PRESSURE DOMESTIC HOT & COLD WATER 150 PSI

ALL PIPING SHALL BE FULLY EXPOSED FOR INSPECTION
 ALL TESTING IN THE PRESENCE OF THE AUTHORIZED INSPECTOR

SANITARY SOIL, WASTE AND VENT SYSTEM TESTS: BEFORE INSTALLATION OF FIXTURES, CAP ENDS OF SYSTEM AND FILL LINES WITH WATER TO ROOF LINE (INCLUDING VENTS) AND ALLOW TO STAND UNTIL A THOROUGH INSPECTION IS MADE. MAKE TESTS IN SECTIONS IF NECESSARY OR

CONVENIENT. HOWEVER, INCLUDE INTERCONNECTIONS BETWEEN NEW SECTIONS AND

PREVIOUSLY TESTED SECTIONS IN THE NEW TEST.

OPERATIONAL TESTS SHALL BE MADE ON ALL EQUIPMENT FIXTURES AND DEVICES TO
DETERMINE PROPER COMPLIANCE WITH SPECIFICATIONS. ALL EQUIPMENT SHALL FUNCTION
QUIETLY AND EFFICIENTLY; AND UNDUE NOISE OR VIBRATION CAUSED BY MALFUNCTIONING OF
PIPING. EQUIPMENT. ETC.. SHALL BE PROMPTLY CORRECTED BEFORE ACCEPTANCE.

3.05 PROTECTION

- A. PROTECT MATERIALS AND FIXTURES AFTER INSTALLATION AGAINST DAMAGE OR USE DURING
- FIXTURES AND EQUIPMENT WITH DAMAGED FINISH SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AND/OR EQUIPMENT AT THE CONTRACTOR'S EXPENSE.

3.06 FIXTURE SETTING

A. FIXTURES SHALL BE ANCHORED AND SET LEVEL AND SQUARE WITH RELATION TO WALLS AND FLOOR LINES, USING EQUAL SPACING AND GROUPING. CONTRACTOR SHALL ENSURE BACKING FOR FIXTURES IS INSTALLED. SEAL FIXTURES AT WALL OR FLOOR WITH DOW CORNING NO. 780 WHITE MASTIC CEMENT.

3.07 CLEAN UP

A. UPON COMPLETION, REMOVE EXCESS MATERIAL AND EQUIPMENT FROM THE JOB SITE, LEAVING THE AREA IN A BROOM CLEAN CONDITION.

3.8 PROJECT CLOSE-OUT REQUIREMENTS

A. PROVIDE THE FOLLOWING ITEMS AS PREREQUISITE TO THE ISSUANCE OF CERTIFICATE FOR FINAL PAYMENT AND FORMAL ACCEPTANCE OF THE PROJECT.

1. "AS-BUILT" RECORD DRAWINGS

3. CERTIFIED STATEMENT OF LABORATORY TESTS

B. ALL "AS-BUILT" RECORD DRAWINGS, TEST AND BALANCE REPORTS, MAINTENANCE AND OPERATING MANUALS AND OPERATIONAL TEST INSPECTIONS SHALL BE APPROVED IN WRITING BY THE PROJECT ENGINEER.

END OF SECTION

