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REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.

LOCATION OF DISPOSAL SITES. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE GENERAL CLEANING OF THE JOB

NOT BE LIMITED TO, THE EXTERIOR AND THE INTERIOR OF THE BUILDING, THE PATH OF TRAVEL TO THE JOB SITE, PARKING LOTS, ELEVATORS, LOBBIES, AND CORRIDOR CARPETS.

PER STATE AND LOCAL CODES.

ISSUANCE OF A BUILDING OR GRADING PERMIT.

COUNTY REQUIREMENTS. 8. CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING OFF SUPPLY AND RETURN

AIR GRILLES, DIFFUSERS & DUCTS TO KEEP DUST FROM ENTERING INTO BUILDING AIR DISTRIBUTION SYSTEMS.

DONE SO IN ACCORDANCE WITH STATE & LOCAL CODES.

LOCAL CODES, INCLUDING REQUIREMENTS FOR FLAME SPREAD AND SMOKE

6. WHEN USED, ALL NOISE BARRIER BATTS (SOUND INSULATION) AND INSULATION BATTS SHALL BE NON-COMBUSTIBLE AND SHALL NOT CONTAIN OR UTILIZE OZONE DEPLETING COMPOUNDS.

7. ALL NEW CONSTRUCTION MATERIALS SHALL BE 100% ASBESTOS-FREE.

JOB SITE NOTES:

THE CONTRACTOR SHALL MINIMIZE CONSTRUCTION NOISE — EXTREME NOISE CONSTRUCTION SHALL OCCUR AT NON-TYPICAL BUSINESS HOURS. CONTRACTOR SHOULD NOTIFY BUILDING REPRESENTATIVE OF SPECIAL CIRCUMSTANCES IN ADVANCE PRIOR TO WORK.

2. THE CONTRACTOR AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST AND DEBRIS. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR AND WATER POLLUTION CONTROL STANDARDS AND

3. CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE BUILDING REPRESENTATIVE OF THE

AFTER ITS COMPLETION. WHERE APPLICABLE, CLEANING SHALL INCLUDE, BUT

5. THE CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION, WHERE REQUIRED

6. IF TRENCHES OR EXCAVATIONS 5'-0" OR MORE IN DEPTH ARE REQUIRED, OBTAIN

7. NO HAZARDOUS MATERIALS SHALL BE USED OR STORED WITHIN THE BUILDING WHICH DOES NOT COMPLY WITH THE LOCAL FIRE AUTHORITY AND STATE &

SMALLER SCALE DRAWINGS.

UNLESS NOTED OTHERWISE.

INTERIOR / EXTERIOR NOTES

DUCTS, PIPING, DOWNSPOUTS, ETC. ARE TO PENETRATE ANY BUILDING FOOTINGS, SLABS, FLOORS, STRUCTURAL FRAMING, WALL PARTITIONS, CEILINGS, ETC., IT IS REQUIRED THAT AN APPROPRIATELY SIZED OPENING OR CLEARANCE BE FURNISHED. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ITEMS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. ANY CONFLICT OR DISCREPANCY WITHIN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION.

DIMENSIONS SHOWN IN FIGURES TAKE PRECEDENCE OVER DIMENSIONS SCALED

5. "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS

THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS THROUGHOUT,

6. DETAILS ARE USUALLY KEYED AND NOTED "TYPICAL" ONLY ONCE, WHEN THEY

7. COLUMN CENTERLINES (GRID LINES) ARE SHOWN FOR DIMENSIONING PURPOSES.

1. WHERE ELECTRICAL, MECHANICAL AND/OR PLUMBING ITEMS, SUCH AS LIGHTS,

FIRST OCCUR AND ARE REPRESENTATIVE OF ALL SIMILAR CONDITIONS

4. THE TERM "ALIGN", AS USED IN THESE DOCUMENTS, SHALL MEAN TO

ACCURATELY LOCATE FINISHES IN THE SAME PLANE.

THROUGHOUT, UNLESS NOTED OTHERWISE.

FROM DRAWINGS. LARGE SCALE DRAWINGS AND DETAILS TAKE PRECEDENCE OVER

CONTRACTOR, ALONG WITH MECHANICAL CONTRACTOR, SHALL PROVIDE AND LOCATE ACCESS DOORS/PANELS IN WALL & CEILING CONSTRUCTION AS REQUIRED TO PROVIDE ACCESS TO MECHANICAL, FIRE SPRINKLER, PLUMBING & ELECTRICAL WORK. CONTRACTOR SHALL SUBMIT A PLAN OF ALL PROPOSED ACCESS PANEL LOCATIONS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

3. ALL PENETRATIONS AT RATED CONSTRUCTION SHALL BE PROTECTED TO MAINTAIN

4. WHERE OCCURS, CONTRACTOR SHALL PATCH ANY EXISTING WALLS AND/OR CEILINGS AS NEEDED TO REFURBISH THE LEASE SPACE AND REPAIR ALL DAMAGES CAUSED BY CONTRACTOR.

5. INTERIOR WALLS AND CEILINGS SHALL BE INSTALLED IN ACCORDANCE TO STATE & DENSITY RATINGS FOR FINISH MATERIALS.

WHERE EXISTING TENANTS/BUSINESSES ARE ADJACENT TO THE JOB SITE/TENANT

9. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE

1. CONTRACTOR AND ARCHITECT TO REVIEW & APPROVE CHALK LINES OF PARTITION

PARTITION PLAN NOTES

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

ALL CONDUIT PIPING IN ELECTRICAL ROOM TO BE CONCEALED WITHIN THE WALL

4. DOOR OPENINGS IN PARTITIONS NOT DIMENSIONED ARE TO BE LOCATED WITHIN 4"

WALLS. CONTRACTOR TO VERIFY ACTUAL DEPTH REQUIRED, ANY DISCREPANCIES

6. USE WATER RESISTANT GYPSUM BOARD AT ALL AREAS SUBJECT TO MOISTURE OR

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

10. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH LOCAL AND NATIONAL

12. ALL PLUMBING CLEAN-OUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE

CONTRACTOR SHALL COORDINATE ALL CLEAN-OUT LOCATIONS WITH EQUIPMENT.

AND CABINETS. SUBMIT A PLAN OF ALL PROPOSED LOCATIONS TO ARCHITECT

13. ALL MILLWORK SHALL CONFORM TO STATE & LOCAL WOODWORKING STANDARDS.

15. 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

16. PROVIDE AND INSTALL ALL NECESSARY ELECTRICAL CONNECTIONS AND PLUMBING

PRIOR TO INSTALLATION. SUPPLY CATALOG CUT SHEETS FOR ARCHITECT'S

17. EXACT LOCATION OF FIRE EXTINGUISHER CABINETS TO BE CONFIRMED WITH

CABINETS AS REQUIRED BY THE FIRE DEPARTMENT FIELD INSPECTORS.

SUPPLY, FITTINGS & CONNECTORS TO COMPLETE INSTALLATION OF APPLIANCES &

EQUIPMENT INDICATED ON PLAN. VERIFY REQUIREMENTS WITH MANUFACTURERS

ARCHITECT BEFORE INSTALLATION. PROVIDE ADDITIONAL FIRE EXTINGUISHERS &

18. CONTRACTOR TO VERIFY LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR

19. ALL EXITS SHALL HAVE EXIT SIGNS AND ALL BLIND CORRIDOR TURNS SHALL

ON FINISH PLAN, ENLARGED FINISH PLANS & FINISH LEGEND.

20. PREPARE ALL FLOOR SURFACES AS REQUIRED TO RECEIVE FINISHES AS NOTED

21. UNLESS OTHERWISE NOTED, ALL GYPSUM BOARD SURFACES, WALLS, AND CEILINGS

SHALL BE TAPED, SANDED SMOOTH TO A "LEVEL 4" FINISH, SO AS TO RECEIVE

22. PROVIDE SOUND INSULATION AT PERIMETER WALLS OF RESTROOMS, LOBBY,

STAIRS, AND ACROSS CEILING OF RESTROOMS TO CREATE AN ACOUSTIC

14. FIELD MEASURE AS REQUIRED FOR ALL MILLWORK CONDITIONS PRIOR TO

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

LAYOUT PRIOR TO COMMENCEMENT OF PARTITION CONSTRUCTION.

OTHERWISE INDICATED.

WHERE TILE IS USED.

APPROVAL.

TO INSTALLATION.

HAVE DIRECTIONAL EXIT SIGNS.

PAINT OR WALL COVERING MATERIAL.

ENVELOPE, UNLESS NOTED OTHERWISE.

OF ADJACENT PERPENDICULAR PARTITION.

SHALL BE REPORTED TO THE ARCHITECT.

FOR APPROVAL PRIOR TO INSTALLATION.

CATALOG CUT SHEETS FOR ARCHITECT'S APPROVAL.

CONSTRUCTION.

BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE IN

ACCORDANCE WITH CFC CHAPTER 14. CFC 1401.1 FINAL INSPECTION BY FIRE DEPARTMENT IS REQUIRED - SCHEDULE 72 HOURS IN **GENERAL NOTES:**

TO WARE MALCOMB.

OWNER AND TENANT.

CLARIFICATION.

OTHERWISE.

AT THE CONTRACTOR'S EXPENSE.

QUALITY TO THE PRODUCT SPECIFIED.

SHOP DRAWINGS.

CONTRACTOR.

THIS PROJECT AND ALL WORK ASSOCIATED WITH PROJECT SHALL CONFORM TO

2. THE TERM "ARCHITECT" OR "DESIGNER" AS USED IN THESE DOCUMENTS REFERS

THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE

THE WORK, ALL OF WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE

THE DESIGN ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING,

FOR BID PURPOSES PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.

OF THE CONSTRUCTION AGREEMENT. THE GENERAL CONTRACTOR SHALL

RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE ON

TEMPORARY SUPPORTS, ETC. DURING DEMOLITION AND/OR CONSTRUCTION IS THE

. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OF PLANS

. ALL WORK NOTED "N.I.C." OR "NOT IN CONTRACT" IS TO BE ACCOMPLISHED BY A

COORDINATE WITH "OTHER" CONTRACTORS PER REQUIREMENTS ESTABLISHED BY

. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR

EXAMINING CONTRACT DOCUMENTS. FIELD CONDITIONS. AND CONFIRMING THAT

WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE

ARCHITECT BEFORE PROCEEDING WITH WORK IN QUESTION OR RELATED WORK

("AS-BUILT DRAWINGS") AND SHALL PROVIDE SAID DOCUMENTATION TO THE

ARCHITECT UPON COMPLETION OF CONSTRUCTION - NO EXCEPTION ALLOWED.

9. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE TO COORDINATE WITH ALL

SUBCONTRACTORS PER REQUIREMENTS ESTABLISHED BY OWNER, TENANT, OR

CONSTRUCTION DRAWINGS. ANY DISCREPANCY BETWEEN THESE DOCUMENTS

THE INTENT OF DRAWINGS AND SPECIFICATIONS IS TO INCLUDE ALL LABOR,

MATERIALS AND SERVICES NECESSARY FOR THE COMPLETION OF ALL WORK

SHOWN, DESCRIBED, OR REASONABLY IMPLIED, BUT NOT LIMITED TO THAT

12. INSTALL ALL MANUFACTURERD ITEMS, MATERIALS, AND EQUIPMENT IN STRICT

ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, UNLESS NOTED

13. ANY WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DRAWINGS, WITHOUT

14. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY

15. ALL REQUESTS FOR SUBSTITUTIONS OF ITEMS SPECIFIED SHALL BE SUBMITTED IN

WRITING AND WILL BE CONSIDERED ONLY IF BETTER SERVICE FACILITIES, A MORE

ADVANTAGEOUS DELIVERY DATE, OR A LOWER PRICE WITH CREDIT TO THE OWNER

/ TENANT WILL BE PROVIDED WITHOUT SACRIFICING QUALITY, APPEARANCE, AND

PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL

SUBSTITUTIONS FOR SPECIFIED MATERIALS REQUIRE THE WRITTEN APPROVAL FROM

FUNCTION. UNDER NO CIRCUMSTANCES WILL THE ARCHITECT BE REQUIRED TO

16. PROJECT SPECIFICATIONS ARE AN INTEGRAL PART OF THESE PLANS —

17. UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR

DIAGRAMMATIC DRAWINGS, AND MATERIAL SCHEDULES. LOCATION AND

SHALL SUBMIT ONE (1) SET OF SHOP DRAWINGS. SHOP DRAWINGS SHOULD

OF SHOP ITEMS AFTER RECEIVING ARCHITECT'S OR DESIGNER'S APPROVAL OF

18. THE ARCHITECT'S REVIEW OF SHOP DRAWINGS SHALL NOT RELIEVE THE GENERAL

CONTRACTOR OR SUBCONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM

THE DRAWINGS OR SPECIFICATIONS UNLESS HE HAS, IN WRITING, AND BROUGHT

TO THE ATTENTION OF THE ARCHITECT SUCH DEVIATIONS AT THE TIME OF THE

SUBMISSION, NOR SHALL IT RELIEVE HIM (GENERAL CONTRACTOR) FROM

20. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL HAVE

EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE COVERAGE ON

21. PROVIDE CONTINUOUS INSPECTIONS AS SET FORTH IN STATE AND LOCAL CODES

PROJECT, THE GENERAL CONTRACTOR SHALL SUBMIT A SIGNED CERTIFICATE TO

THE DEPARTMENT OF BUILDING AND SAFETY STATING THAT ALL WORK HAS BEEN

22. PRIOR TO THE ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY FOR THIS

PERFORMED AND MATERIALS INSTALLED ACCORDING TO THE PLANS AND

FILE WITH THE STATE LABOR DEPARTMENT IN COMPLIANCE WITH CURRENT LABOR

RESPONSIBILITY FOR ERRORS OF ANY SORT IN THE SHOP DRAWINGS.

19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL

REQUIRED BUILDING PERMITS PRIOR TO STARTING CONSTRUCTION.

AND PER CONTRACT DOCUMENTS AS NEEDED.

SPECIFICATIONS AFFECTING NON-RESIDENTIAL ENERGY.

INCLUDE DETAILED, FABRICATION AND ERECTION DRAWINGS, SETTING DRAWINGS,

ORIENTATION OF ALL ITEMS SHOULD BE CLEARLY INDICATED. BEGIN FABRICATION

WILL CAUSE A DELAY IN THE CONSTRUCTION COMPLETION SCHEDULE. THE

SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR THAT

CONTRACTOR SHALL SUBMIT CONFIRMATIONS OF DELIVERY DATES FOR ORDERS OF

THE PRIOR APPROVAL OF THE OWNER AND THE ARCHITECT SHALL BE CORRECTED

EXPLICITLY INDICATED IN THE CONTRACT DOCUMENTS.

MATERIALS AND EQUIPMENT HAVING LONG LEAD TIMES.

SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR

10. THE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, OTHER DRAWINGS,

AND JOB SPECIFICATIONS ARE SUPPLEMENTARY TO ARCHITECTURAL

BOTH, WHICH ARE UNDER SEPARATE CONTRACT WITH THE OWNER, OR TENANT,

THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION ITEMS,

CONTRACTOR SHALL MAINTAIN RECORD DOCUMENTS OF CONSTRUCTION CHANGES

CONTRACTOR OTHER THAN THE GENERAL CONTRACTOR AND IS NOT TO BE PART

SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY

PROCEDURE, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH

STATE AND LOCAL JURISDICTION CODE REQUIREMENTS.

THE STRUCTURAL ENGINEER OR ARCHITECT.

FIRE AUTHORITY NOTES

THE PROJECT ADDRESS SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY PER LOCAL FIRE DEPARTMENT

STANDARDS. CFC 505.1 AN UNOBSTRUCTED ALL-WEATHER FIRE APPARATUS ACCESS ROAD SHALL BE IN

PLACE PRIOR TO DELIVERY OF COMBUSTIBLE BUILDING MATERIALS TO THE SITE. FIRE PREVENTION WATER SERVICE SHALL BE IN SERVICE PRIOR TO DELIVERY OF COMBUSTIBLE BUILDING MATERIALS TO THE SITE.

ACCESS GATES SHALL BE APPROVED PRIOR TO INSTALLATION AND SHALL BE IN COMPLIANCE WITH LOCAL FIRE AUTHORITY. FIRE EXTINGUISHING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH CFC

903 AND COMPLY WITH STANDARDS OF 903.3 FIRE SPRINKLER SYSTEM(S) SHALL MEET STATE & LOCAL FIRE CODES AND BE PROVIDED TO PROTECT ENTIRE BUILDING INCLUDING PROJECTIONS OVER 4 FEET AND SPRAY BOOTH.

FIRE SPRINKLER SYSTEM(S) AND ALL CONTROL VALVES, INCLUDING EXTERIOR SHALL BE SUPERVISED BY A U.L. LISTED CENTRAL ALARM STATION OR PER STATE & LOCAL FIRE CODES.

10. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER-FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRICALLY MONITORED WHERE THE NUMBER OF SPRINKLERS IS 20 OR MORE.

. ELECTRICAL SUBCONTRACTORS TO INSTALL WIRING FOR FIRE SPRINKLER, ALARM BELL AND TELEPHONE WARNING AS REQUIRED BY FIRE DEPARTMENT.

12. INSTALLATION OF FIRE ALARM SYSTEMS SHALL BE IN ACCORDANCE WITH CFC

13. COMPLETE PLANS AND SPECIFICATIONS FOR ALL FIRE EXTINGUISHING SYSTEMS, INCLUDING AUTOMATIC SPRINKLERS AND WET AND DRY STANDPIPES, HALON SYSTEMS, AND OTHER SPECIAL TYPES OF AUTOMATIC FIRE-EXTINGUISING; BASEMENT PIPE INLETS; AND OTHER FIRE PROTECTION SYSTEMS AND APPURTENANCES HERETO SHALL BE SUBMITTED TO FIRE AND LIFE SAFETY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. CFC 901.2

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

15. AT LEAST ONE (1) FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B: C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. CFC 906.1

16. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS. FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH STATE & LOCAL FIRE CODES. THE STORAGE AND USE OF HAZARDOUS MATERIALS SHALL BE APPROVED BY THE FIRE AUTHORITY PRIOR TO ANY MATERIALS BEING STORED OR USED ON SITE. A SEPARATE PLAN SUBMITTAL IS REQUIRED PRIOR TO THE STORAGE AND USE OF HAZARDOUS MATERIALS.

. BUILDING(S) NOT APPROVED FOR HIGH-PILED STOCK (MATERIALS IN CLOSELY PACKED PILES OR ON PALLETS, OR IN RACKS WHERE THE TOP OF STORAGE EXCEEDS 12 FEET IN HEIGHT, AND 6 FEET FOR GROUP "A" PLASTICS AND CERTAIN OTHER HIGH-HAZARD COMMODITIES). HIGH-PILED STOCK SHALL BE APPROVED BY THE FIRE AUTHORITY PRIOR TO MATERIALS BEING STORED ON SITE. A SEPARATE PLAN SUBMITTAL IS REQUIRED FOR HIGH-PILED STORAGE IN ACCORDANCE WITH STATE & LOCAL FIRE CODES.

18. A LETTER OF INTENDED USE MAY BE REQUIRED BY THE FIRE INSPECTOR. 19. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDENT

CONDITION. CFC 804 20. AN APPROVED AUDIBLE SPRINKLER FLOW ALARM SHALL BE PROVIDED ON THE EXTERIOR OF THE BUILDING IN AN APPROVED LOCATION. CFC 903.4.2

FINISH NOTES POWER & SIGNAL NOTES

NO FINISH SUBSTITUTIONS MAY BE MADE UNLESS APPROVED BY ARCHITECT. APPLICATION OF CONTROLLED INTERIOR FINISHES SHALL BE IN CONFORMANCE WITH STATE & LOCAL CODES.

CEILING NOTES

SEE ELECTRICAL ENGINEERING DRAWINGS FOR SPECIFICATIONS OF NEW BUILDING

2. ALL REPLACMENT FLUORESCENT LAMPS TO MATCH BUILDING STANDARD — SAME

FIELD VERIFY EXISTING CEILING GRID LOCATION AND NOTIFY ARCHITECT OF ANY

WHERE DISCREPANCIES IN LOCATION OF LIGHT FIXTURES, AIR DIFFUSERS, GRILLES,

ETC. OCCUR ON THE ELECTRIAL ENGINEERING PLANS, THE ARCHITECTURAL PLANS

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

ALUMINUM FLEX, ALUMINUM CONDUIT, AND POT METAL CONNECTORS.

LOCATIONS FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.

CENTER OF 24"x24" PORTION OF 24"x48" CEILING TILES,

INTERFERENCE MUST BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

7. 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

SERVICE SHALL BE LOCATED OVER ACOUSTICAL CEILINGS. NO ACCESS HATCHES

SHALL BE INSTALLED IN GYPSUM BOARD CEILINGS WITHOUT PRIOR APPROVAL BY

ARCHITECTURAL PATTERN. G.C. TO PROVIDE A SUBMITTAL WITH SPRINKLER HEAD

10. ALL SPRINKLER HEADS AT HARD-LID CEILINGS ARE TO BE FULLY RECESSED AND

1. ALL HARD-LID CEILINGS ARE TO BE INSTALLED WITH LINEAR DIFFUSERS. G.C. TO

12. LOCATE RECESSED DOWN LIGHTS, WALL WASHERS, SMOKE DETECTORS, EXIT SIGNS,

13. PROVIDE SWITCHES AND LIGHT SENSORS FOR OPEN AREAS AND PRIVATE OFFICES.

14. WHERE EXIT SIGNS ARE REQUIRED PER STATE & LOCAL CODES, THEY SHALL BE

17. EMERGENCY LIGHTING SHALL BE (2) SEPARATE SOURCES OF POWER AND SHALL

ACTUAL LOCATION OF ALL SWITCHES TO BE DETERMINED BY ELECTRICAL

ILLUMINATED PER SAID CODES AND THE NEC. LOCATIONS SHALL BE

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

SPEAKERS, FIRE SPRINKLERS, ETC. IN CENTER OF 24"x24" CEILING TILES OR IN

PROVIDE A SUBMITTAL WITH ALL LINEAR DIFFUSER LOCATIONS PRIOR TO

CONCEALED. HEADS ARE TO BE CENTERED BETWEEN LIGHTS IN A UNIFORM

9. ALL JUNCTION BOXES AND MECHANICAL EQUIPMENT REQUIRING ACCESS FOR

STANDARD LIGHT FIXTURES, SWITCHES, EXIT SIGNS, ETC.

NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR CLARIFICATIONS.

COLOR AND MANUFACTURER.

ARCHITECT. (NO EXCEPTION)

UNLESS NOTED OTHERWISE.

COORDINATED WITH THE ARCHITECT.

FOOT-CANDLE AT THE FLOOR LEVEL.

COMPLY WITH THE NEC.

INSTALLATION.

DISCREPANCIES ON PLANS.

SHALL GOVERN.

. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME—RETARDANT

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

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

OR LOTS INTENDED FOR APPLICATION. B. ONE (1) 24" X 24" MOCK-UP WITH SAMPLE SEAM (CENTERED) OF ALL FABRIC AND VINYL FINISHES AND COLOR.

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

CONTROL.

ARE OPEN TO THE FLOOR.

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

WHERE MATERIALS ARE NOT RETURNABLE, SUBMIT SAMPLES TO ARCHITECT BEFORE PLACING FULL ORDERS.

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

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

PROPERLY PREPARED WITH SEALER PER MANUFACTURER'S RECOMMENDATIONS. 11. CONTRACTOR TO VERIFY CONDITION AND LEVEL OF FLOOR SO AS TO RECEIVE NEW FINISHES WITHOUT BOWING AT FLOOR OR WALL BASE. CONTRACTOR IS RESPONSIBLE FOR ALL FLOOR PREPARATION.

12. ALL CARPETING SHALL BE INSTALLED WITH GLUE DOWN METHOD, UNLESS NOTED OTHERWISE. 13. WHERE FLOOR-MOUNTED OUTLETS ARE REQUIRED ON CARPETED AREA. CUT CARPET IN AN "X" OVER FLOOR HOLE AND INSTALL CARPET OVER TOP. DO NOT

14. ALL V.C.T. TO BE INSTALLED WITH FULL TILE FROM VINYL THRESHOLD STRIP AND FULL TILE FROM WALL ADJACENT TO DOOR SWING, U.N.O.

15. PROVIDE AND INSTALL SPECIFIED BASE FOR ALL AREAS TO RECEIVE FLOORING. 16. CONTRACTOR SHALL PROVIDE PRE-FORMED RUBBER BASE CORNERS. DO NOT CUT OR BEND STRAIGHT BASE TO MAKE CORNERS.

17. MILLWORK LOWER CABINETS ARE NOT TO RECEIVE WALL BASE UNLESS INDICATED ON FINISH PLANS. 18. FLOOR FINISHES TO CONTINUE UNDERNEATH "OPEN FLOOR" AREAS OF MILLWORK.

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

1. COORDINATE TELEPHONE/DATA INSTALLATION WITH APPROPRIATE

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

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

WALL STUD. WHEN OUTLETS ARE GROUPED TOGETHER (2 OR MORE), THEY ARE TO BE SPACED

NO MORE THAN 2" APART.

5. ALL NEW WALL MOUNTED 15, 20, AND 30 AMP RECEPTACLES OUTLETS TO BE CENTERED AT +18" A.F.F., U.N.O. 6. ALL TELEPHONE AND DATA CABLE TO BE TEFLON COATED PLENUM RATED CABLE,

SUPPLIED BY TENANT; ALL PULLS AND TERMINATIONS BY GENERAL CONTRACTOR. 7. LOCATIONS OF FURNITURE POWER FEEDS SHALL ACCOMMODATE CIRCUITS AND WIRE PER ELECTRICAL DRAWINGS. TENANT SHALL BE RESPONSIBLE FOR

SUPPORTED INDEPENDENTLY FROM SUSPENDED CEILING SYSTEM. CABLING TO BE

PROVIDING FURNITURE POWER FEED, GENERAL CONTRACTOR SHALL INSTALL THE

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.

CONTRACTOR ARE TO BE COORDINATED WITH THE ELECTRICAL CONTRACTOR,

U.N.O. ALL RECEPTACLES WHERE MILLWORK OCCURS SHALL BE LOCATED PER

11. CUT-OUTS FOR SWITCHES, OUTLETS, ETC. AS REQUIRED BY THE CABINET

ELEVATIONS OF THE MILLWORK ITEM IN QUESTION.

STANDARD COLOR COVER PLATE.

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

VERIFY THAT ALL DOORS AND DOOR HARDWARE MEET THE REQUIREMENTS OF ALL GOVERNING CODES & STANDARDS. NOTIFY THE ARCHITECT IMMEDIATELY IN CASE OF DISCREPANCY.

DOOR NOTES

. FIELD MEASURE, AS REQUIRED, ALL DOORS PRIOR TO FABRICATION.

REMAIN UNLOCKED DURING BUSINESS HOURS". 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.

THE REQUIREMENTS OF THE ADA: - INTERIOR DOORS - 5 POUNDS EXTERIOR DOORS – 5 POUNDS

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

STANDARDS AND THE ADA.

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

12. ALL DOOR FRAMES TO BE FACTORY FINISHED.

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.

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

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

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

3. FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION.

GLAZING NOTES

THE FLOOR SHALL BE TEMPERED.

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

PA / PM: DRAWN BY:

DEMOLITION NOTES

DRAWINGS OF EXISTING CONDITIONS HAVE BEEN COMPILED FROM EXISTING DATA

SUPPLIED BY THE OWNER TO THE ARCHITECT. THE ARCHITECT MAKES NO

COMPLETENESS OF THE EXISTING INFORMATION RECORDED. THE CONTRACTOR

IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS THAT MIGHT ARISE IN THE

UTILITIES. LOCATE AND PROTECT UTILITIES TO REMAIN. DISCONNECT, REMOVE

SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT

VERIFY LOCATIONS OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL

BACK TO NEAREST JUNCTION BOX OR PANEL, AS REQUIRED, AND CAP

ALL EXISTING BUILDING UTILITIES SHALL REMAIN IN OPERATION DURING

MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFO.

CONSTRUCTION. PROVIDE REROUTING OF UTILITIES SERVING ADJACENT AREAS

4. THE DEMOLITION PLAN KEYNOTES ARE DIAGRAMMATIC AND GENERAL IN NATURE.

THE INTENT IS TO ILLUSTRATE THE COMPLETE DEMOLITION OF THE SPACES

REMOVAL AND DISPOSAL OF DEMOLITION DEBRIS IS THE RESPONSIBILITY OF THE

DEMOLITION STAGING AREA, AND THE LOCATION OF THE DUMPSTERS WITH THE

3. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY DEMOLISHED ITEM. VERIFY

7. IN ORDER TO INSTALL SOME OF THE NEW WORK (INCLUDING, BUT NOT LIMITED TO

REFINISH) EXISTING WALLS, FLOORS, OR CEILING IN THE AREAS OF THE BUILDING

NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL INCLUDE ALL RELATED

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

10. PROVIDE DUST BARRIERS AROUND OPENINGS, TO AND FROM THE CONSTRUCTION

11. 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

ENDANGERED. DO NOT RESUME OPERATIONS UNTIL CORRECTIVE MEASURES HAVE

NOTIFY THE ARCHITECT IMMEDIATELY IF THE STRUCTURE APPEARS TO BE

12. CONTRACTOR SHALL MAINTAIN REQUIRED MEANS OF EGRESS AND ENSURE THAT

13. PROVIDE TEMPORARY NON-COMBUSTIBLE CONSTRUCTION BARRIERS WHERE

C.NON-COMBUSTIBLE ACCESS DOOR WITH 3 HINGES AND SPRING CLOSER.

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

15. CUT RIGID MATERIALS USING MASONRY SAW OR CORE DRILL. PNEUMATIC TOOLS

16. ALL CORE DRILLING OR OTHER NOISY WORK SHALL BE SCHEDULED 48 HOURS IN

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

EXISTING FLOOR COVERING AND PREPARE SUBSTRATE FOR NEW FLOOR COVERING

CONSTRUCTION, COMPLETELY SEAL VOIDS WITH FIRE RATED MATERIAL TO FULL

EXISTING FINISHES TO REMAIN, AND SHALL MEET OR EXCEED FIRE RATING

INDICATED ON FLOOR PLAN AND AS REQUIRED BY THE FIRE/LIFE SAFETY

20. COORDINATE EXISTING SPRINKLER LINE AND HEAD LOCATION WITH NEW PLAN.

21. CONTRACTOR IS RESPONSIBLE FOR BUILDING SECURITY DURING DEMOLITION

SUBMIT SPRINKLER SHOP DRAWINGS TO ARCHITECT FOR REVIEW WITH THE CITY

PHASE. PROTECT ALL OPENINGS FROM WEATHER CONDITIONS AND SECURE THEM

22. DO NOT PERFORM ANY WORK THAT WILL VOID WARRANTIES OF EXISTING WEATHER

EXPOSED OR MOISTURE RESISTANT ELEMENTS WITHOUT PRIOR APPROVAL FROM

INCLUDING ASBESTOS, AND ASSUMES NO RESPONSIBILITY TO ITS EXISTENCE OR

CONSULTANT OR SPECIALIST, LICENSED BY THE STATE, FOR SUCH SERVICES

SHOULD THOSE SERVICES BE REQUIRED ON THE PROJECT.

REMOVAL. THE OWNER WILL TAKE ACTION FOR DIRECTLY CONTRACTING WITH A

STORM WATER NOTES

STORM WATER QUALITY NOTES

CONSTRUCTION BMP'S

THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE PERMIT;

NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION

. SUFFICIENT BMP'S MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER

CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR

STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY

OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH

WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREECH IN THE INSTALLED

ALL STOCK PILES OF UNCOMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE

CALENDAR DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS.

SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS

3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED

4. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING

BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.

. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE

PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE

5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST

INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN

NO. 2001.01 NPDES NO. CASO10875 AND THE CITY OF SAN DIEGO LAND

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN DIEGO REGION, ORDER

23. ARCHITECT ASSUMES NO RESPONSIBILITY RELATING TO ANY TOXIC MATERIALS,

THICKNESS OF THE PENETRATED ELEMENT. ALL PATCHING OF EXISTING WORK TO

REMAIN SHALL MATCH FINISH PER SCHEDULE OR WHERE UNSCHEDULED TO MATCH

18. AT FLOOR AREAS SCHEDULED TO RECIEVE NEW FLOOR COVERING, REMOVE

19. AT ABANDONED PENETRATIONS OF FIRE RATED WALLS, CEILING OR FLOOR

PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.

AND RECEIVE STRUCTURAL ENGINEER'S APPROVAL PRIOR TO DRILLING CONCRETE.

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

REQUIRED BY CODE AND THE GOVERNING FIRE AUTHORITY. MINIMUM

B.STUDS AT 24" O.C., WITH 5/8" TYPE 'X' GYPSUM BOARD.

EXIT ROUTES ARE SIGNED, LIGHTED AND PROTECTED IN ACCORDANCE WITH CODE

REQUIREMENTS. RELOCATE EXISTING AND/OR PROVIDE SMOKE PROTECTORS AND

TO INSURE PUBLIC SAFETY AND TO ALLOW BUILDING OCCUPANCY. CONTRACTOR

TO SUBMIT FOR APPROVAL, BARRIER LOCATIONS, AND METHOD OF CONSTRUCTION

AREA. PROVIDE ALL MEANS NECESSARY TO INHIBIT DUST FROM ENTERING OTHER

PORTIONS OF THE FACILITY. SUBMIT BARRIER LOCATIONS TO THE ARCHITECT FOR

MECHANICAL, PLUMBING OR ELECTRICAL) IT WILL BE NECESSARY FOR THE

CONTRACTOR AND HIS SUBCONTRACTORS TO REMOVE AND REPLACE (OR

8. PROTECT ADJACENT SPACES NOT SCHEDULED FOR DEMOLITION. PATCH AND

COSTS IN HIS BASE BID, WHETHER SHOWN ON THESE PLANS OR NOT.

9. NO STRUCTURAL ELEMENTS ARE INCLUDED IN THIS SCOPE OF WORK.

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

OWNER PRIOR TO THE START OF DEMOLITION. DISPOSAL OF RUBBISH SHALL BE

INDICATED UNLESS NOTED OTHERWISE. FIELD VERIFICATION OF EXISTING

CONTRACTOR. VERIFY THE HAULING ROUTE THROUGH THE BUILDING, THE

CONDITIONS AND SPECIFIC QUANTITIES IS THE RESPONSIBILITY OF THE

THAT ARE TO MAINTAIN UNINTERRUPTED SERVICE. ANY TEMPORARY SUSPENSION

OF SERVICE SHALL BE COORDINATED AND APPROVED BY THE FACILITY MANAGER,

DESIGNATED UTILITIES WITHIN THE DEMOLITION AREA. REFER TO THE

WARRANTY, EITHER EXPRESS OR IMPLIED, FOR THE ACCURACY OF THE

COURSE OF THE DEMOLITION WORK.

NOT LESS THAN 24 HOURS IN ADVANCE.

CONTRACTOR.

DONE IN A LEGAL MANNER.

DIRECTED BY THE OWNER.

TO THE ARCHITECT PRIOR TO INSTALLATION.

LIFE SAFETY EQUIPMENT FOR ADEQUATE COVERAGE

A.FULL HEIGHT WALL FROM FLOOR TO CEILING.

ARE NOT ALLOWED WITHOUT PRIOR APPROVAL.

ADVANCE WITH THE OWNER.

CHIPS AND CRACKS.

FIRE DEPARTMENT.

DEVELOPMENT CODE.

CONSTRUCTION BMP'S

40% OR GREATER.

IN PLACE ON THE SITE.

ORDER AT ALL TIMES.

ENVIRONMENT.

BMP'S.

TO PREVENT VANDALISM.

APPROVAL, PRIOR TO INSTALLATION.

BEEN TAKEN.

TENGLISH JOB NO.: | SDG11-6064-00

SHEET

PROVIDE A SIGN ON OR NEAR THE MAIN EXIT DOOR READING, "THIS DOOR TO

MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING PER

FIRE DOORS — 15 POUNDS

ALL HARDWARE TO BE LEVER-TYPE PER STATE OF ALL GOVERNING CODES &

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

FLOOR. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND MATCH NEW.

THROAT THICKNESS' FOR EACH LOCATION.

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

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 X

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

" CLEAN AIR " VEHICLE

BENEATH A PARKED 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.

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

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 USE SHALL BE DEMONSTRATED BY ONE OF THE FOLLOWING METHODS:

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

5.303.2 TWENTY PERCENT SAVINGS.



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 (5.7 L/MIN)1	ASME A 112.18.1/CSA B125.1

SECTION 5.304 OUTDOOR WATER USE

5.304.1 WATER BUDGET.

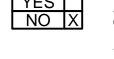
A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION USE THAT CONFORMS TO THE LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR TO THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER LANDSCAPE ORDINANCE WHERE NO LOCAL ORDINANCE IS APPLICABLE.

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

5.304.2 OUTDOOR POTABLE WATER USE.

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

RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER 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

CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN

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

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

3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS

4. COMMISSIONING PLAN

7. COMMISSIONING REPORT

SHALL INCLUDE:

5. FUNCTIONAL PERFORMANCE TESTING

6. DOCUMENTATION AND TRAINING

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 THE COMMISSIONING REQUIREMENTS.

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

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

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.

5.410.4.4 REPORTING.

6. WATER REUSE SYSTEMS

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.

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

COLLECT IN THE SYSTEM.

5.504.3 COVERING OF DUCT OPENINGS AND 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 COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. FINISH MATERIALS SHALL COMPLY WITH SECTIONS 5.504.4.1 THROUGH

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

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

COATING CATEGOR'

1/1/2010	1/1/2012
50	
100	
150	
400	
400	
50	
350	
350	
350	
100	
50	
150	
350	
350	
100	
250	
500	
420	
500	
250	
420	
100	
<u> </u>	
250	
50	
400	250
730	
550	
350	100
250	
450	
450	
100	
420	
250	
275	
350	
340	
	50 100 150 400 400 50 350 350 350 350 100 50 150 350 350 100 250 500 420 250 120 450 100 500 250 420 100 500 250 420 100 500 250 420 100 350 250 420 100 350 250 420 100 350 250 420 100 3550 250 400

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:

2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE

1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.

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.

GREEN LABEL PROGRAM.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE

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.

5.504.4.6.1 VERIFICATION OF COMPLIANCE.

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.

DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS. 5.504.5.3 FILTERS.

IN MECHANICALLY VENTILATED BUILDINGS. PROVIDE REGULARLY

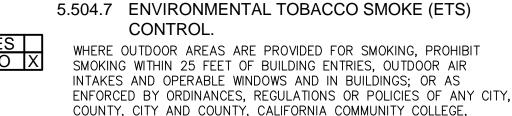
OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR

OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT

CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE

UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN

LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8.



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

FOLLOWING BUILDING LOCATIONS:

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

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

WINDOWS SHALL HAVE A MINIMUM STC OF 30 FOR ANY OF THE

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

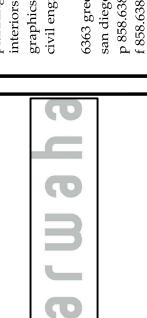
5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

THAT DO NOT CONTAIN CFCs. 5.508.1.2 HALONS.

5.508.1.1 CHLOROFLUOROCARBONS (CFCs).

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

INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT



TENGLISH PA / PM: DRAWN BY: JOB NO.: | SDG11-6064-00

SHEET

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

. 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

3. AN AREA OF REFUGE SHALL BE ONE OF THE FOLLOWING:

- 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.
- A PORTION OF A STAIRWAY LANDING WITHIN A SMOKEPROOF ENCLOSURE THAT COMPLIES WITH LOCAL CODES.
- 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 D 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

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

- 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 WHEELCHAIR TRAFFIC.
- 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.

7. FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN

- ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
- 8. OPENINGS MORE THAN 24" IN DEPTH SHALL COMPLY WITH STATE & LOCAL CODES.
- 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

- THAN HALF OF THE WIDTH OF THE DOOR MEASURED FROM THE LATCH SIDE. 16. EXIT DOORS SHALL SWING IN THE DIRECTION OF THE PATH OF TRAVEL WHERE THE AREA SERVED
- 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
- 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

REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL

- 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.
- 51. 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

TRAP OR HAZARDOUS CONDITION.

- 1. CONTROLS AND OPERATING MECHANISMS ARE REQUIRED TO BE ACCESSIBLE PER LOCAL CODES.
- . 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.
- 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

OF 1/40" ABOVE THE BACKGROUND.

- 1. 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.

VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF

- 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
- 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
- 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 PERSONS WITH DISABILITIES.
- 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.
- WHEREVER BASIC BUILDING CODE PROVISIONS REQUIRE EXIT SIGNS FROM A ROOM OR AREA TO A CORRIDOR OR HALLWAY. THE TACTILE EXIT SIGN SHALL HAVE THE WORDS, "EXIT

18. PER STATE CODE, TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:

- 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". 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

NOT BE CONSTRUED TO FORM CORRIDORS.

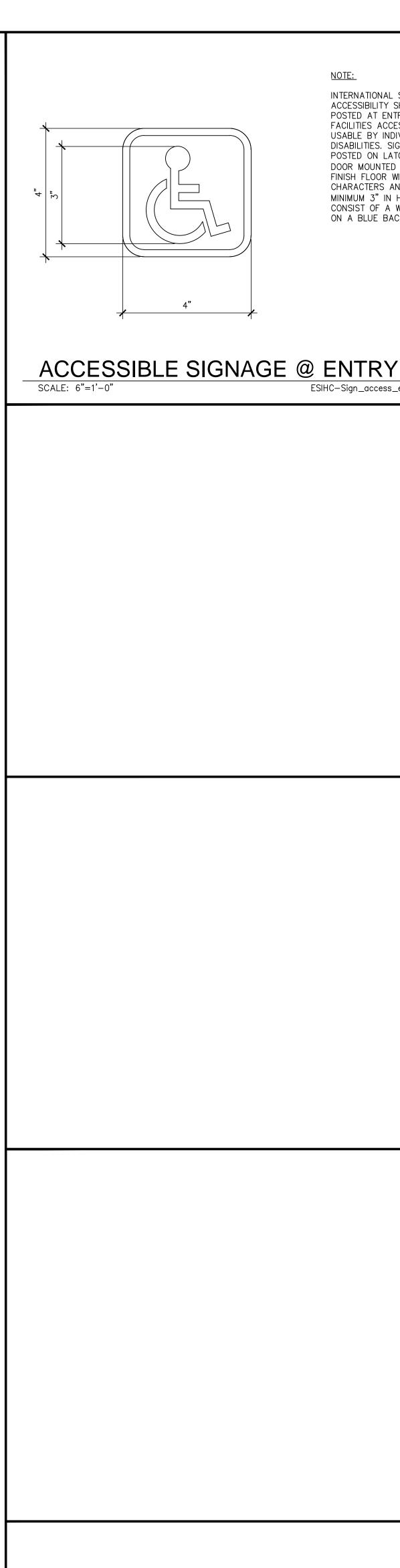
- NOTE: THE TERM CORRIDOR SHALL INCLUDE EXTERIOR EXIT BALCONIES AND ANY COVERED OR ENCLOSED EXIT PASSAGEWAY, INCLUDING WALKWAYS, TUNNELS AND MALLS. PARTITIONS, RAILS, COUNTERS, AND OTHER SIMILAR SPACE DIVIDERS NOT OVER 5'-9" IN HEIGHT ABOVE THE FLOOR SHALL
- 1. EVERY CORRIDOR AND HALLWAY SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL NOT BE LESS THAN 44 INCHES IN WIDTH. CORRIDORS AND HALLWAYS SERVING AN OCCUPANT LOAD OF
- LESS THAN 10 SHALL NOT BE LESS THAN 36 INCHES. . 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

OF TWO CORRIDORS OR WALKS IS AN ACCEPTABLE PASSING PLACE.

- 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.



SHEET FOR SPECIFIC SIGNAGE DETAILS. INTERNATIONAL SYMBOL OF ???? ACCESSIBILITY SHALL BE POSTED AT ENTRANCES AND FACILITIES ACCESSIBLE AND USABLE BY INDIVIDUALS WITH DISABILITIES. SIGNAGE TO BE POSTED ON LATCH SIDE OF DOOR MOUNTED 60" ABOVE FINISH FLOOR WITH CHARACTERS AND NUMBERS HEIGHT OF TACTILE CHARACTERS & SIGN ABOVE FINISH FLOOR OR GROUND MINIMUM 3" IN HEIGHT. SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. NOTE: SEE ADA-NOTES SHEET FOR ADDITIONAL INFO. - MOUNT AS TO ALLOW A PERSON TO APPROACH WITHIN PER SIZE 3" OF SIGNAGE WITHOUT OF SIGN ENCOUNTERING DOOR SWING

LOCATION OF TACTILE SIGNS AT DOORS

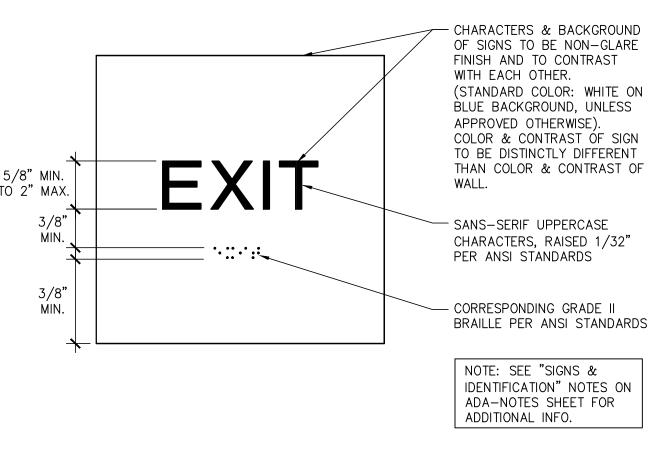
NOTE:

TYP. TACTILE SIGN INSTALLATION THCSI−Tactile_sign−01\ SCALE: 1/4"=1'-0"

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

SEE ENLARGED DETAILS THIS

OR PROTRUDING OBJECTS



TACTILE "EXIT" SIGN IHCSI-Tactile_exit-01 \

CHARACTERS & BACKGROUND OF SIGNS TO BE NON-GLARE FINISH AND TO CONTRAST 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 TO 2" MAX. CHARACTERS, RAISED 1/32" PER ANSI STANDARDS - CORRESPONDING GRADE II 3/8" BRAILLE PER ANSI STANDARDS NOTE: SEE "SIGNS & IDENTIFICATION" NOTES ON ADA-NOTES SHEET FOR ADDITIONAL INFO.

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SANS-SERIF UPPERCASE

PER ANSI STANDARDS

CHARACTERS, RAISED 1/32"

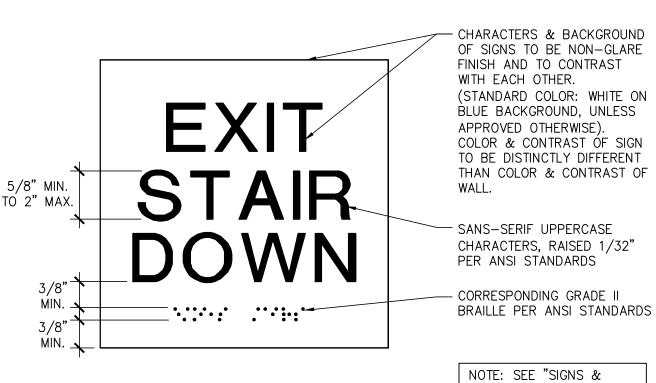
CHARACTERS & BACKGROUND OF SIGNS TO BE NON-GLARE FINISH AND TO CONTRAST WITH EACH OTHER. (STANDARD COLOR: WHITE ON BLUE BACKGROUND, UNLESS APPROVED OTHERWISE). COLOR & CONTRAST OF SIGN TO BE DISTINCTLY DIFFERENT THAN COLOR & CONTRAST OF WALL.

TACTILE "TO EXIT" SIGN

SCALE: 3'' = 1' - 0''

- · :: · :: · :: -- CORRESPONDING GRADE II BRAILLE PER ANSI STANDARDS NOTE: SEE "SIGNS & IDENTIFICATION" NOTES ON ADA-NOTES SHEET FOR ADDITIONAL INFO.

TACTILE "EXIT ROUTE" SIGN $_{\text{IHCSI-Tactile}_exit_route-01}$ / SCALE: 3'' = 1' - 0''



IDENTIFICATION" NOTES ON ADA-NOTES SHEET FOR ADDITIONAL INFO. TACTILE "EXIT STAIR DOWN" SIGN SCALE: 3"= 1'-0" IHCSI-Tactile_exit_stair_down-01\

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- BE ACCESSIBLE. 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 STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
 - 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.
- 6. 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.
- . 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.

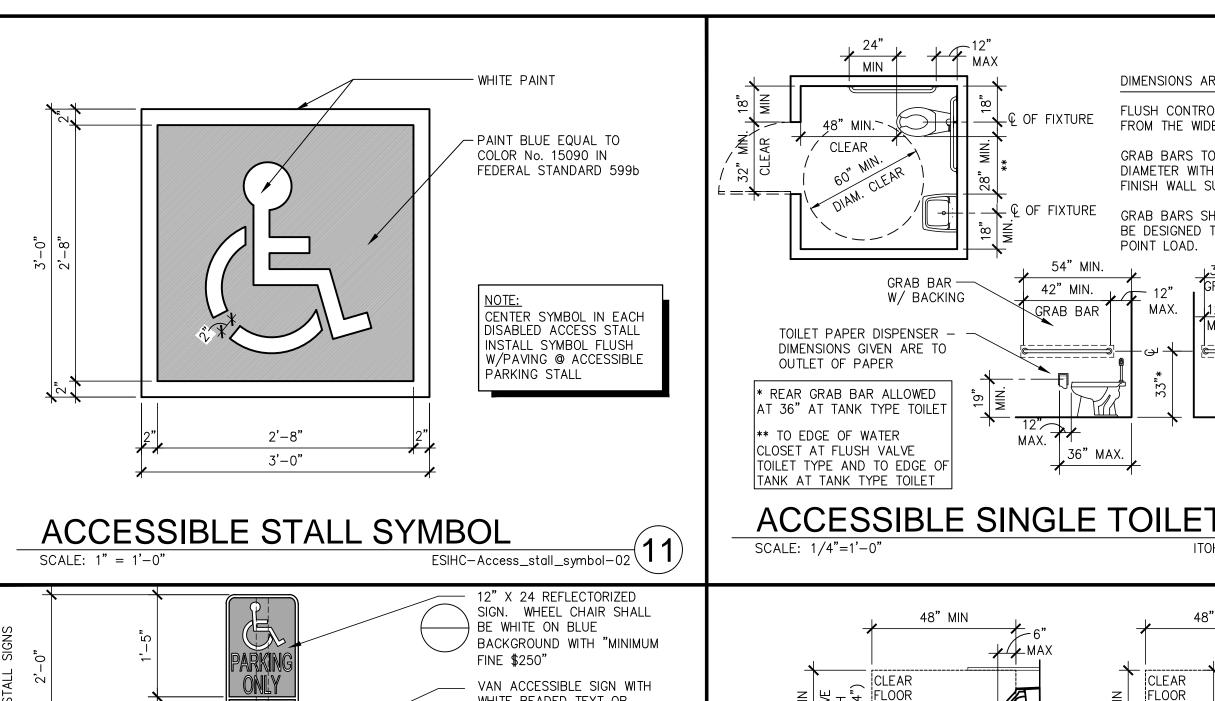
BATHING FACILITIES & LOCKERS

NOTE: WHERE FACILITIES FOR BATHING ARE PROVIDED FOR THE PUBLIC, CLIENTS OR EMPLOYEES, INCLUDING SHOWERS OR LOCKERS, AT LEAST ONE SUCH FACILITY, AND NOT LESS THAN 1 PERCENT OF ALL FACILITIES, SHALL CONFORM TO STATE AND LOCAL CODES.

- COMPARTMENT SHOWERS SHALL BE 60 INCHES MINIMUM IN WIDTH BETWEEN WALL SURFACES AND 30 INCHES MINIMUM IN DEPTH WITH A FULL OPENING WIDTH ON THE LONG SIDE, OR 42 INCHES IN WIDTH BETWEEN WALL SURFACES AND 48 INCHES MINIMUM IN DEPTH WITH AN ENTRANCE OPENING OF 42 INCHES. AS AN ALTERNATIVE, SHOWERS 60 INCHES MINIMUM IN WIDTH MAY BE 36 INCHES MINIMUM IN DEPTH AS LONG AS THE ENTRANCE OPENING WIDTH IS A MINIMUM 36 INCHES.
- THRESHOLDS OR RECESSED DROPS AT COMPARTMENT SHOWERS SHALL BE A MAXIMUM OF 1/2" IN HEIGHT AND SHALL BE BEVELED OR SLOPED AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE HORIZONTAL.
- WHERE, WITHIN THE SAME FUNCTIONAL AREA, TWO OR MORE ACCESSIBLE SHOWERS ARE PROVIDED, THERE SHALL BE AT LEAST ONE SHOWER CONSTRUCTED OPPOSITE HAND FROM THE OTHER OR OTHERS (I.E., ONE LEFT HAND CONTROL VS. RIGHT HAND CONTROLS).
- THE MAXIMUM SLOPE OF THE FLOOR SHALL BE 2 PERCENT PER FOOT IN ANY DIRECTION. WHERE DRAINS ARE PROVIDED, GRATE OPENINGS SHALL BE A MINIMUM OF 1/4" AND LOCATED FLUSH WITH THE FLOOR SURFACE.
- SHOWERS IN ALL OCCUPANCIES SHALL BE FINISHED WITH A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL TO HEIGHT OF NOT LESS THAN 70 INCHES ABOVE THE DRAIN INLET. MATERIALS OTHER THAN STRUCTURAL ELEMENTS USED IN SUCH WALLS SHALL BE OF A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE.
- 6. DOORS AND PANELS OF SHOWER ENCLOSURES SHALL BE SUBSTANTIALLY CONSTRUCTED FROM APPROVED, SHATTER-RESISTANT MATERIALS. HINGED SHOWER DOORS SHALL OPEN OUTWARD.
- 7. GLAZING USED IN DOORS AND PANELS OF SHOWER ENCLOSURES SHALL BE FULLY TEMPERED, LAMINATED SAFETY GLASS OR APPROVED PLASTIC. WHEN GLASS IS USED, IT SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 1/8" WHEN FULLY TEMPERED, OR 1/4" WHEN LAMINATED, AND SHALL PASS THE TEST REQUIREMENTS OF STATE CODES.
- 8. PLASTICS USED IN DOORS AND PANELS OF SHOWER ENCLOSURES SHALL BE OF A SHATTER-RESISTANT TYPE.
- 9. ENCLOSURES, WHEN PROVIDED FOR SHOWER STALLS, SHALL NOT OBSTRUCT TRANSFER FROM WHEELCHAIRS ONTO SHOWER SEATS.
-). WATER CONTROLS OF A SINGLE-LEVER DESIGN SHALL BE LOCATED ON THE SIDE WALL OF THE COMPARTMENT ADJACENT TO THE THE SEAT AND OPERABLE WITH A MAXIMUM FORCE OF 5 LB MOUNTED AT 40 INCHES (PLUS OR MINUS 1 INCH TOLERANCE) ABOVE THE SHOWER FLOOR, AND THE CENTERLINE OF THE CONTROLS SHALL BE WITHIN A REACH RANGE OF NO LESS THAN 18 INCHES AND NO MORE THAN 24 INCHES FROM THE REAR EDGE OF THE SEAT.
- 11. A FLEXIBLE HAND-HELD SPRAYER UNIT WITH A HOSE AT LEAST 60 INCHES LONG SHALL BE PROVIDED WITHIN REACH RANGE OF THE SEAT AT A DISTANCE NOT TO EXCEED 27 INCHES HORIZONTALLY MEASURED FROM THE REAR SEAT EDGE TO THE CENTERLINE OF THE MOUNTING BRACKET. THIS UNIT SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 48 INCHES (PLUS OR MINUS 1 INCH TOLERANCE) ABOVE THE SHOWER FLOOR.
- WHERE ACCESSIBLE SHOWER FACILITIES ARE PROVIDED IN AREAS SUBJECT TO EXCESSIVE VANDALISM, IN LIEU OF PROVIDING THE FIXED FLEXIBLE HOSE AND HAND-HELD SHOWER HEAD, TWO WALL-MOUNTED SHOWER HEADS SHALL BE INSTALLED. EACH SHOWER HEAD SHALL BE INSTALLED SO THAT IT CAN BE OPERATED INDEPENDENTLY OF THE OTHER AND SHALL HAVE SWIVEL ANGLE ADJUSTMENTS, BOTH VERTICALLY AND HORIZONTALLY. ONE SHOWER HEAD SHALL BE LOCATED AT A HEIGHT OF 48 INCHES (PLUS OR MINUS 1 INCH TOLERANCE) ABOVE THE SHOWER FLOOR.
- 13. THE FOLLOWING COMPARTMENT SHOWER ACCESSORIES SHALL BE PROVIDED:
- A FOLDING SEAT LOCATED WITHIN 27 INCHES OF THE CONTROLS MOUNTED 18 INCHES ABOVE THE FLOOR, AND WITH A MINIMUM SPACE OF 1 INCH AND MAXIMUM SPACE OF 1-1/2 INCHES ALLOWED BETWEEN THE EDGE OF THE SEAT AND ANY WALL. WHEN FOLDED, THE SEAT SHALL NOT EXCEED MORE THAN 6 INCHES FROM THE MOUNTING WALL.
- GRAB BARS LOCATED ON WALLS ADJACENT TO AND OPPOSITE THE SEAT. GRAB BARS TO ALSO COMPLY WITH THE DIAMETER, LOADING AND PROJECTION REQUIREMENTS OF STATE AND LOCAL CODES. GRAB BARS SHALL BE MOUNTED BETWEEN A MINIMUM OF 33 INCHES AND A MAXIMUM OF 36 INCHES ABOVE THE SHOWER FLOOR WITH AN L-SHAPED GRAB BAR MOUNTED ON WALLS OPPOSITE AND ADJACENT TO THE FRONT EDGE OF THE SEAT, BUT NOT EXTENDED TO INCLUDE THAT PORTION OF WALL OVER THE SEAT.
- 14. WHEN A SOAP DISH IS PROVIDED, IT SHALL BE LOCATED ON THE CONTROL WALL AT A MAXIMUM HEIGHT OF 40 INCHES ABOVE THE SHOWER FLOOR, AND WITHIN REACH LIMITS FROM THE SEAT.

INCHES IN CLEAR WIDTH SHALL BE PROVIDED TO THESE LOCKERS.

15. WHERE LOCKERS ARE PROVIDED FOR THE PUBLIC, CLIENTS, EMPLOYEES, MEMBERS OR PARTICIPANTS. AT LEAST ONE LOCKER AND NOT LESS THAN 1 PERCENT OF ALL LOCKERS SHALL BE MADE ACCESSIBLE TO PERSONS WITH DISABILITIES. A PATH OF TRAVEL NOT LESS THAN 36



SCALE: 3/4"=1'-0"

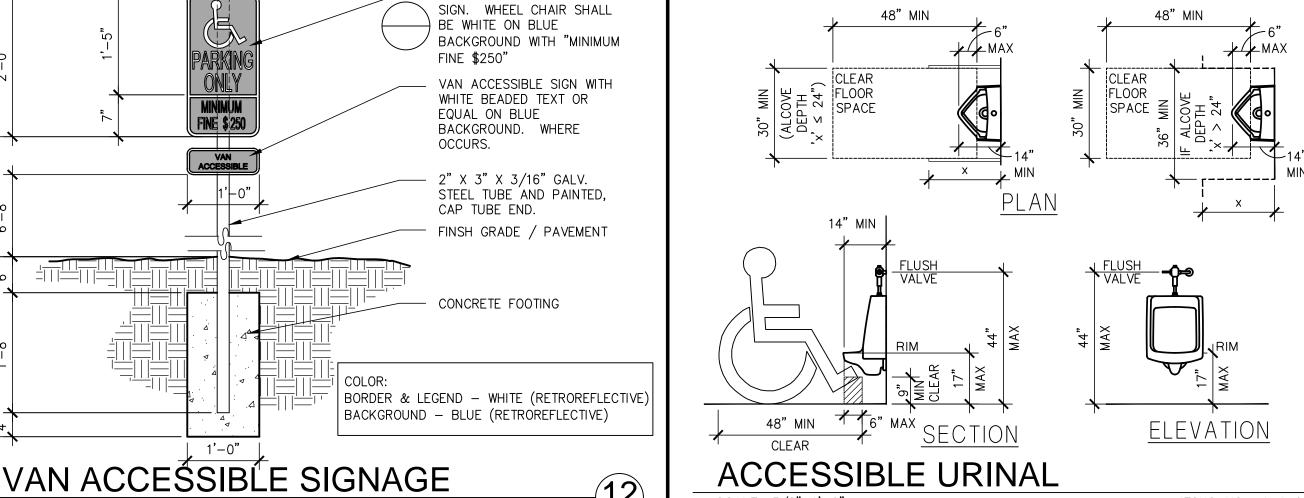
BORDER & LEGEND - WHITE (RETROREFLECTIVE)

ACCESSIBLE SIGNS

BACKGROUND - BLUE (RETROREFLECTIVE)

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

SCALE: 3/4"=1'-0"



ESIHC-Sign_access_van-01\

1'-0"

R99 (CA)

R99B (CA)

— THE WORDS "NO PARKING"

SHALL BE PAINTED IN THE

LESS THAN 305 MM (12 INCH)

ESIHC-No_Parking-01\ | 4

BACKGROUND AND LOCATED

SO THAT IT IS VISIBLE TO

LOADING AND UNLOADING AREA IN WHITE LETTERS NO

HIGH ON CONTRASTING

TRAFFIC ENFORCEMENT

OFFICIALS.

"NO PARKING" PAVEMENT MARKING

ESIHC-Sign_access-00 \

CLEAR

GRAB BAR -

FACE OF FINISH

60" MIN.

HAND-HELD SHOWER HEAD

└── 1/2" MAX. THRESHOLD

FINISH WALL SURFACE.

5. FLOOR SURFACE TO BE NON-SLIP.

-LANDSCAPE AND PAVEMENT,

\WHERE OCCURS →

SEE PLAN

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

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

w/ 50% MAX. BEVELED SLOPE

FORCE TO OPERATE NOT TO EXCEED 5 LBS.

4. SHOWER FLOOR TO SLOPE 2% MAX. IN ANY DIRECTION.

ACCESSIBLE SHOWER

w/60" HOSE

CONTROL AREA —

SOAP DISH-

FLOOR !

SPACE i

27"MAX.

SHOWER CONTROLS SHALL BE SINGLE-LEVER MIXING CONTROL, WITH VALVE

3. GRAB BARS, SHOWER SEATS, FASTENERS AND MOUNTING DEVICES SHALL

2. GRAB BARS TO BE 1-1/4" TO 1-1/2" DIAMETER WITH 1-1/2" CLEARANCE TO

HAVE BACKING AND BE DESIGNED TO SUPPORT A 250 POUND POINT LOAD.

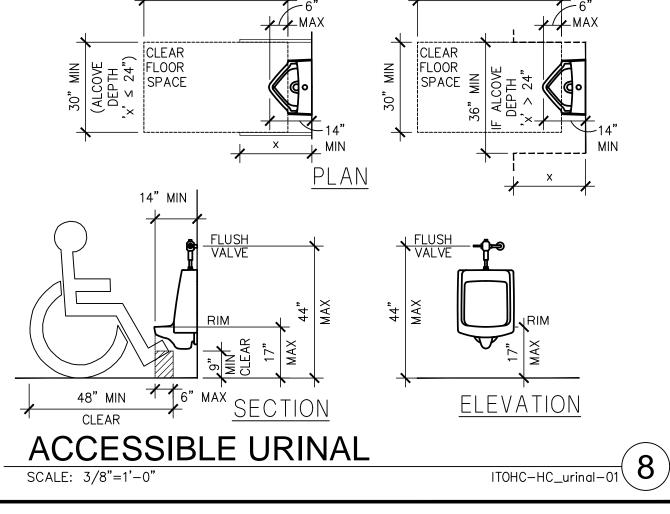
ACCESSIBLE STALL 8-0" @ VAN

TYPICAL PARKING STALLS

27" MAX.

CONTROL WALL

W/ BACKING



DIMENSIONS ARE TO FACE OF FINISH

FROM THE WIDE SIDE OF THE TOILET.

GRAB BARS TO BE 1-1/4" TO 1-1/2"

FINISH WALL SURFACE.

POINT LOAD.

MAX.

42" MIN.

36" MAX.

GRAB BAR

DIAMETER WITH 1-1/2" CLEARANCE TO

GRAB BARS SHALL HAVE BACKING AND

ITOHC-HC_restroom-04 \

23" MAX.

1"MIN

1 1/2"MA

16" MAX.

STANDARD

SHOWER

HEAD

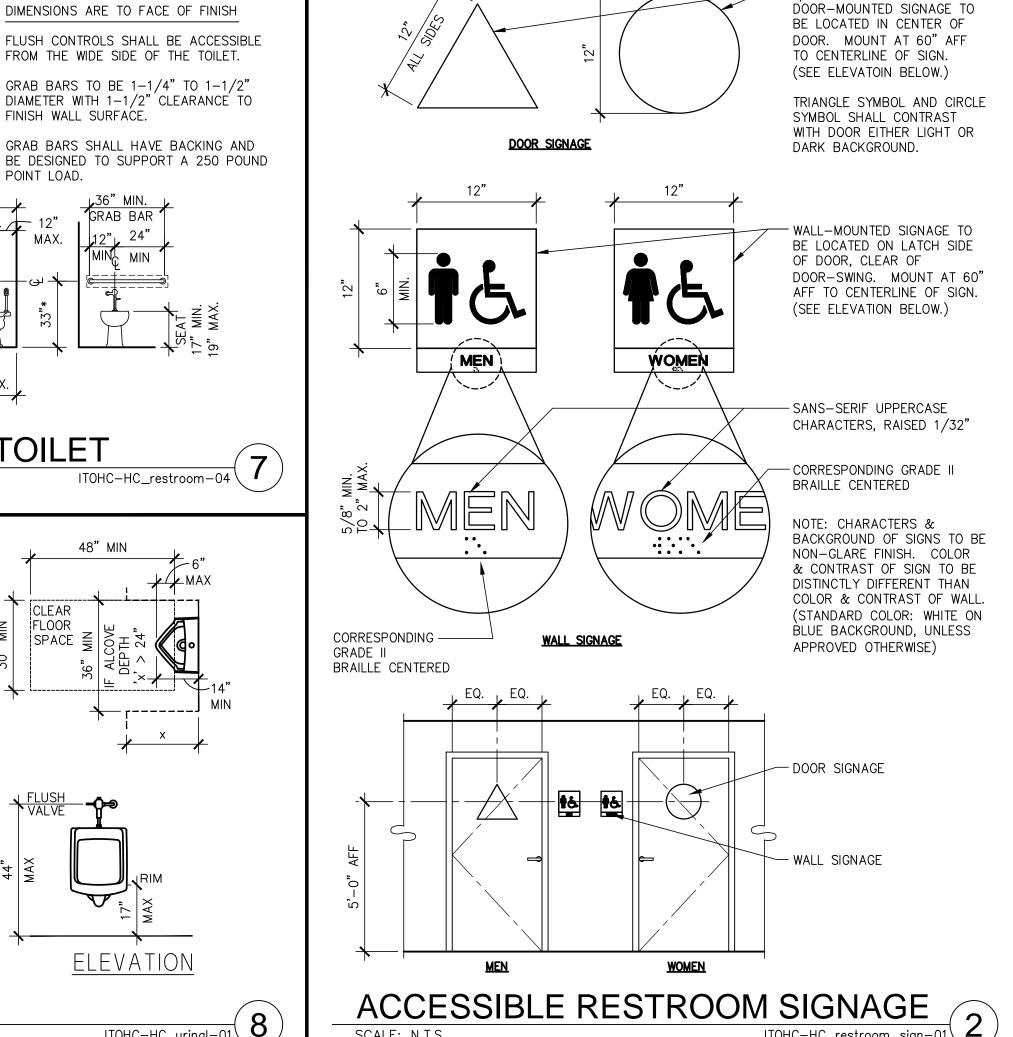
SCALE: 3/4"=1-0

-GRAB BAR

W/BACKING

GRAB BAR

FLUSH CONTROLS SHALL BE ACCESSIBLE



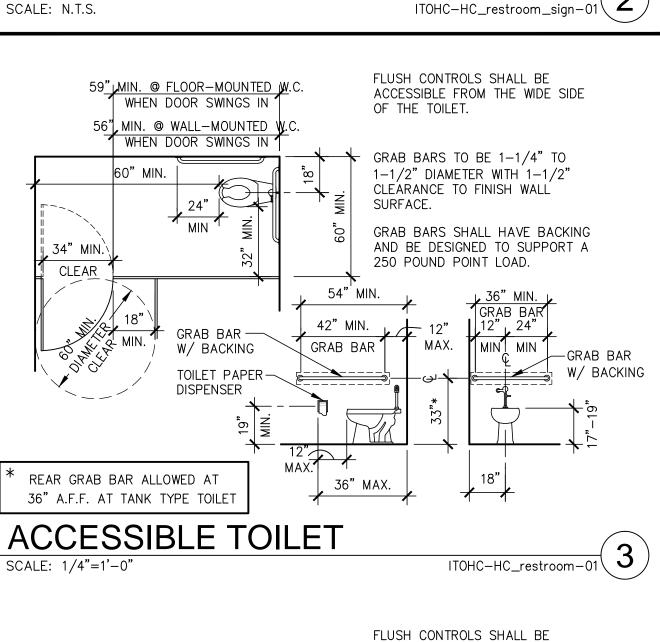
CAUTION: IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT

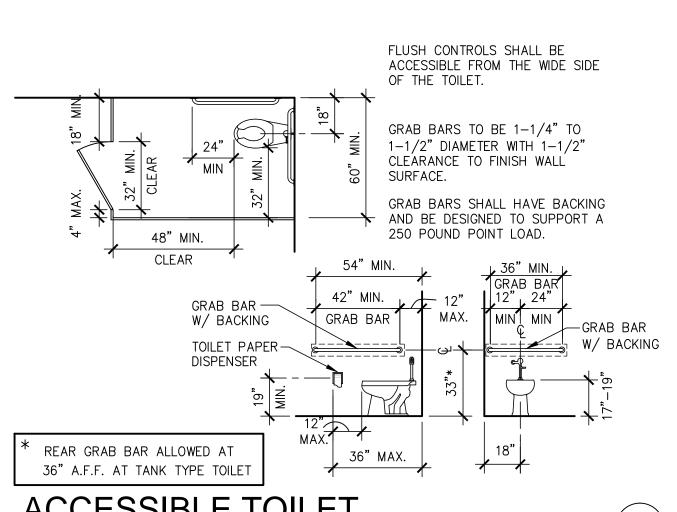
-1/4" THICK SOLID SURFACE

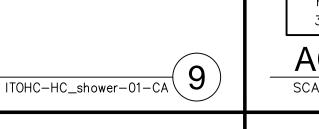
M Est

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WA







PAINT DIRECTIONAL ARROWS AT

DRIVEWAY AND ENTRY PARKING A

REQUIRED PER CITY STANDARDS.

O" CONCRETE CURB

- CONCRETE WHEEL STOP

— 4" WIDE STRIPE PAINTED

- CONCRETE CURB

— 4" WIDE STRIPING

PAINTED WHITE, TYP.

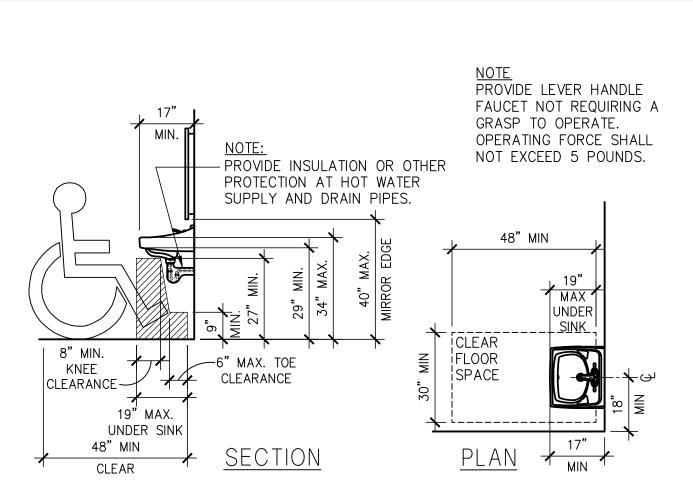
HIGH LETTERS MIN.

- WITHIN THE LOADING AND

UNLOADING ACCESS AISLE PAINT

THE WORD "NO PARKING" IN 12"

ESIHC—Parking_stalls—01



ACCESSIBLE TOILE? $_{ ext{ITOHC-HC_restroom-01a}}$ SCALE: 1/4"=1'-0"

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

∞ర

PA / PM: TENGLISH DRAWN BY: JOB NO.: SDG11-6064-00

SHEET

1 EXISTING FULLY ACCESSIBLE PRIMARY ENTRANCE TO REMAIN .

4 EXISTING FULLY ACCESSIBLE EGRESS TO REMAIN.

5 EXISTING FULLY ACCESSIBLE CONCRETE WALK TO REMAIN.

2 HEAVY DASHED LINE INDICATES EXISTING FULLY ACCESSIBLE PATH OF TRAVEL TO REMAIN.

3 EXISTING HANDICAPPED PARKING TO REMAIN. RESTRIPED AS NEEDED TO BE ADA COMPLIANCE.

THE WORDS "NO PARKING" SHALL BE PAINTED ON THE GROUND WITHIN EACH

THIS NOTICE SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 12 INCHES HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS. CBC SECTION 1129B.4.1 & 1129B.4.2

7 EXISTING EMERGENCY PHONE TO REMAIN. GC TO CONFIRM/ENSURE PHONE IS FUNCTIONING CORRECTLY.

10 NEW FULL ACCESSIBLE HANDICAPPED PARKING AND SIGNAGE. SEE DETAILS

11 EXISTING COMPLIANT LEVEL LANDING. (NO MORE THAN 1/4"/FT SLOPE IN

EXISTING EXTERIOR STAIRS: TO BE MODIFIED TO ACCOMMODATE NEW FULLY ACCESSIBLE RAMP.

15 NEW "NO PARKING" NOTICE AT LOADING AND UNLOADING ACCESS AISLE.

16 NEW DETECTABLE WARNING STRIPE: 36" WIDE, COMPLYING WITH CBC

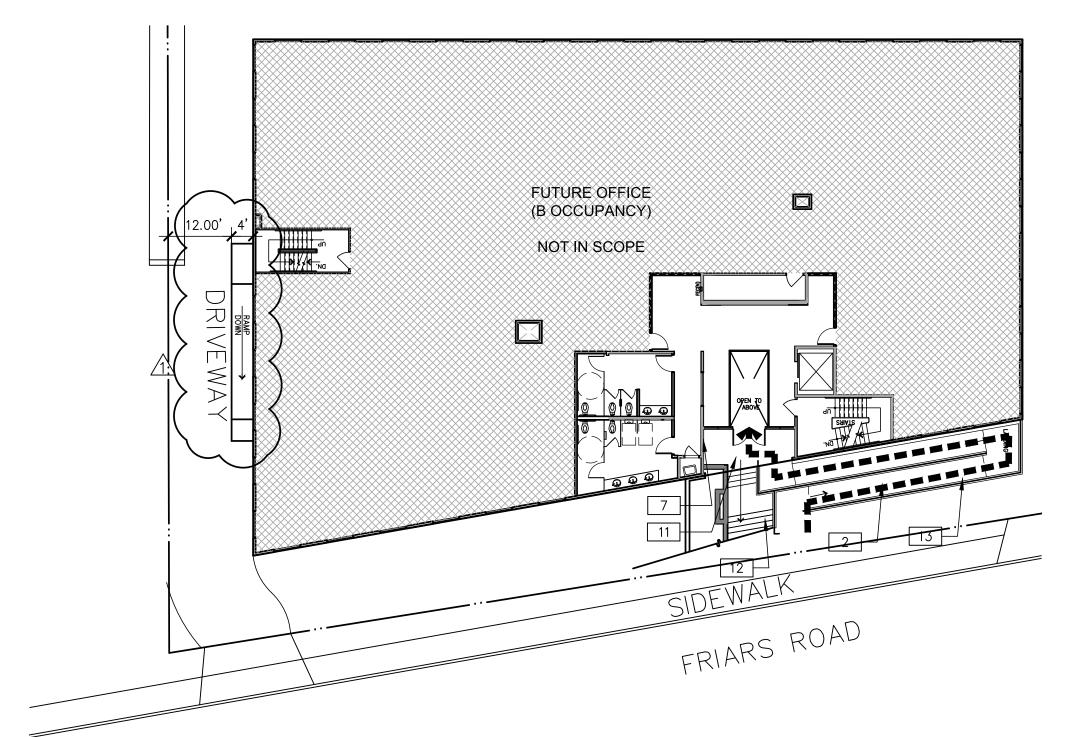
11,768 SF (OFFICE) - PARTIAL SCOPE OF WORK

8,082 SF (OFFICE) - SCOPE OF WORK

9 EXISTING HANDICAPPED PARKING: STRIP AS SHOWN TO MAKE FULLY ACCESSIBLE VAN HANDICAPPED PARKING.

ON SHEET AD.30.

'-0" / 8'-0" (AT VAN SPACE) LOADING AND UNLOADING ACCESS AISLE.



SCOPE OF WORK: LOBBY AND RESTROOM UPGRADES

BASEMENT - PARKING GARAGE LEVEL 2

EXISTING PARKING GARAGE TO REMAIN. MATCH HANDICAPPED PARKING

UPGRAGES AS PARKING LEVEL 2 (SECOND FLOOR).

SECOND FLOOR - STREET LEVEL

THIRD FLOOR

SCOPE OF WORK: TENANT IMPROVEMENT OF WHOLE FLOOR, RESTROOM AND LOBBY UPGRADES.





13 NEW FULLY ACCESSIBLE RAMP.

1121B3.1 #8 (a)

BUILDING AREAS:

TOTAL

14 PROPERTY LINE (—— · · ——)

OFFICE (LEVEL 3&4) 19,796

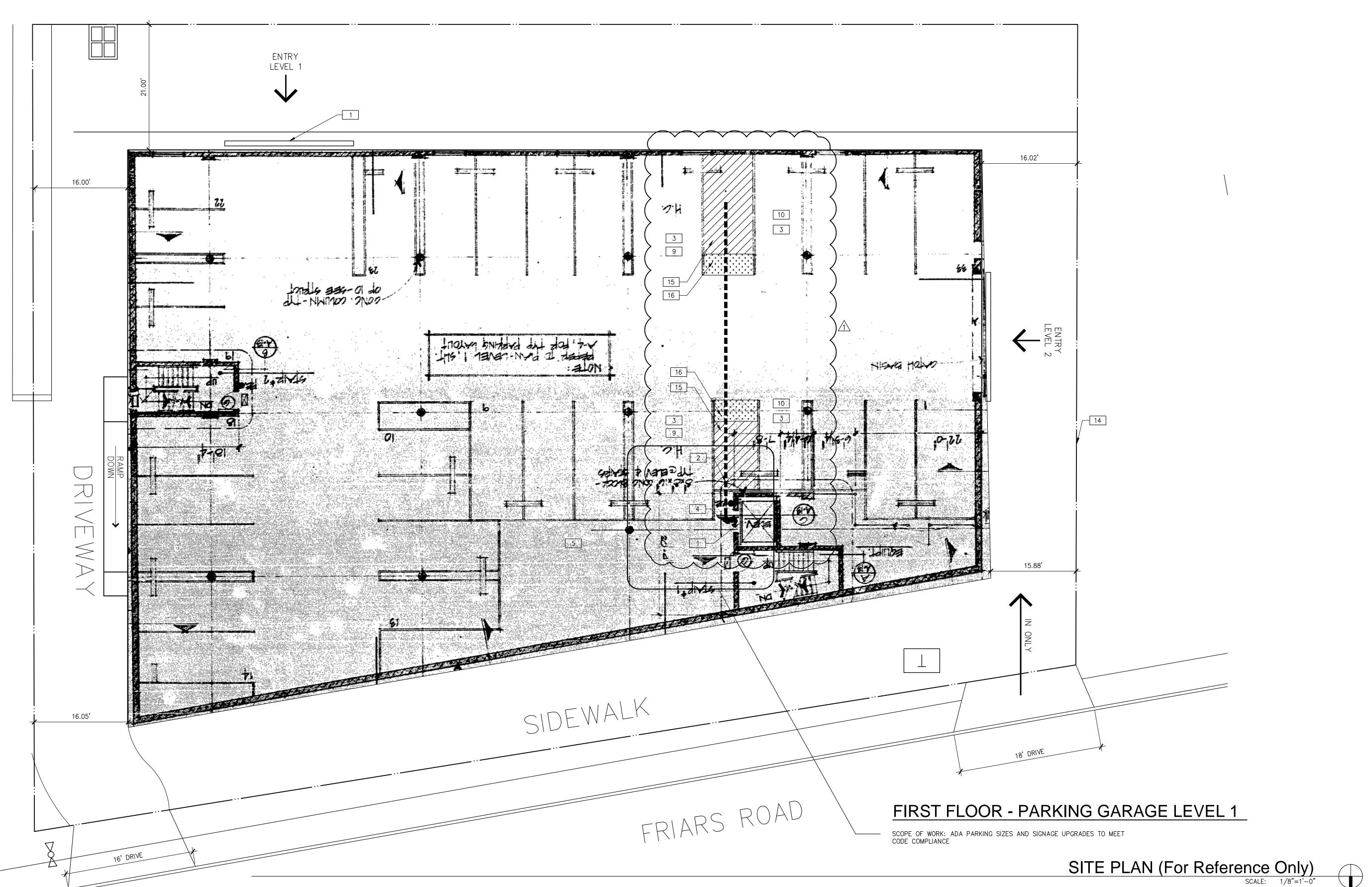
19,850 SF

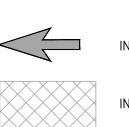
TOTAL STALLS REQUIRED: 79 ACCESSIBLE STALLS: STANDARD VAN STANDARD STALLS:

NOTE: IF THE BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, HE/SHE SHALL REQUIRE COMPLETE, DETAILED PLANS CLEARLY SHOWING ALL EXISTING, NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY PROVISIONS AFFECTED BY THE REMODEL (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.). THE PLANS MUST BE STAMPED BY THE FIELD INSPECTOR AND RE-SUBMITTED TO THE BUILDING DEVELOPMENT REVIEW DIVISION.

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DRAWN BY: JOB NO.: SDG11-6064-0





INDICATES AREA NOT IN CONTRACT (N.I.C.)

MALCOMB for Commercial Real Estate

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FULL HEIGHT PARTITION TO 6" ABOVE CEILING

TO 6" ABOVE CEILING SONINGS AS SOLVE AS

MALC for Commercial

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JOB NO.: SDG11-6064-00

INDICATES DOOR NUMBER

WALL LEGEND

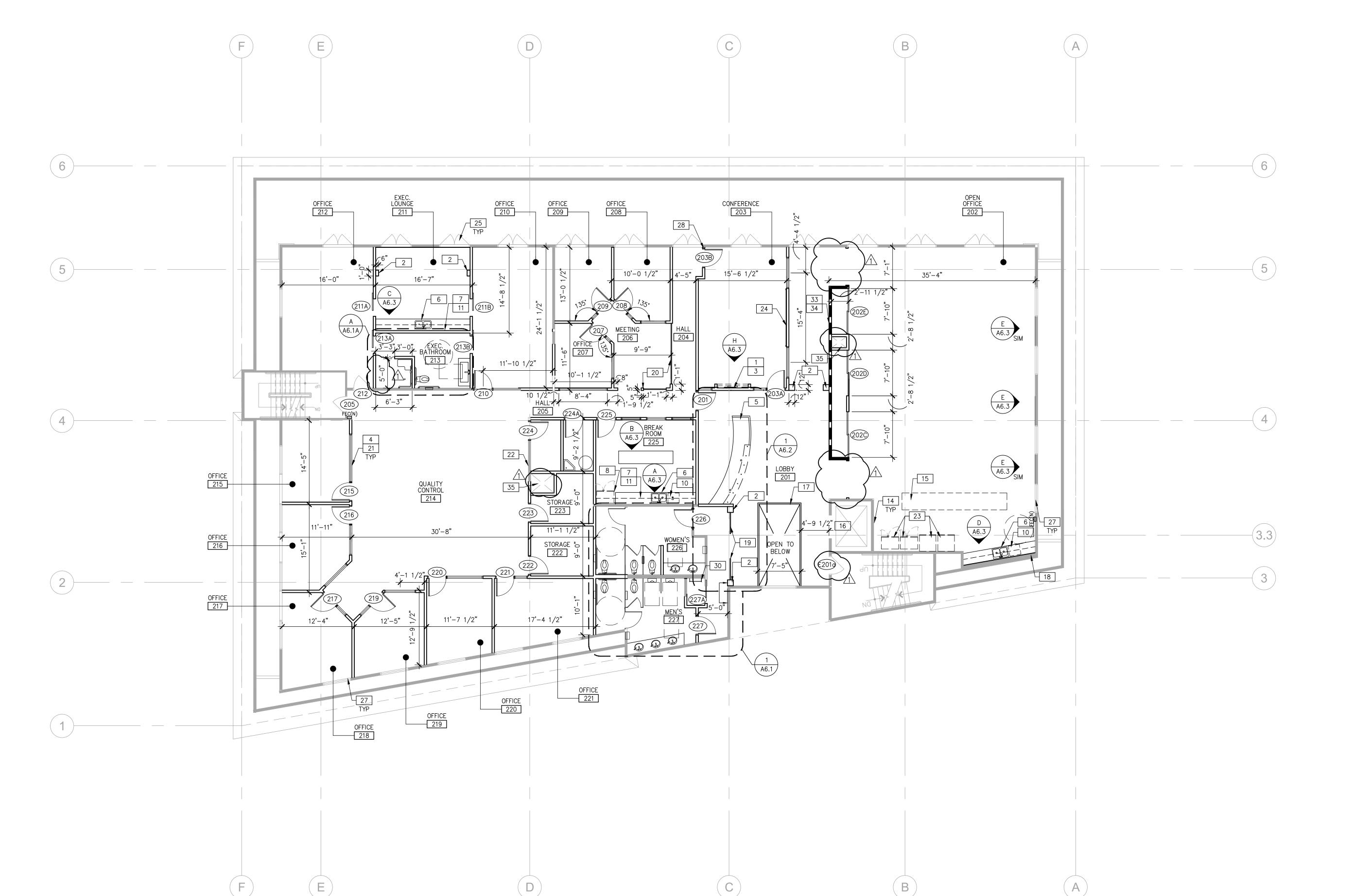
NOTE: SEE DOOR SCHEDULE ON SHEET A7.1.

LEGENDS

SYMBOL LEGEND

PARTITION TO UNDERSIDE OF CEILING

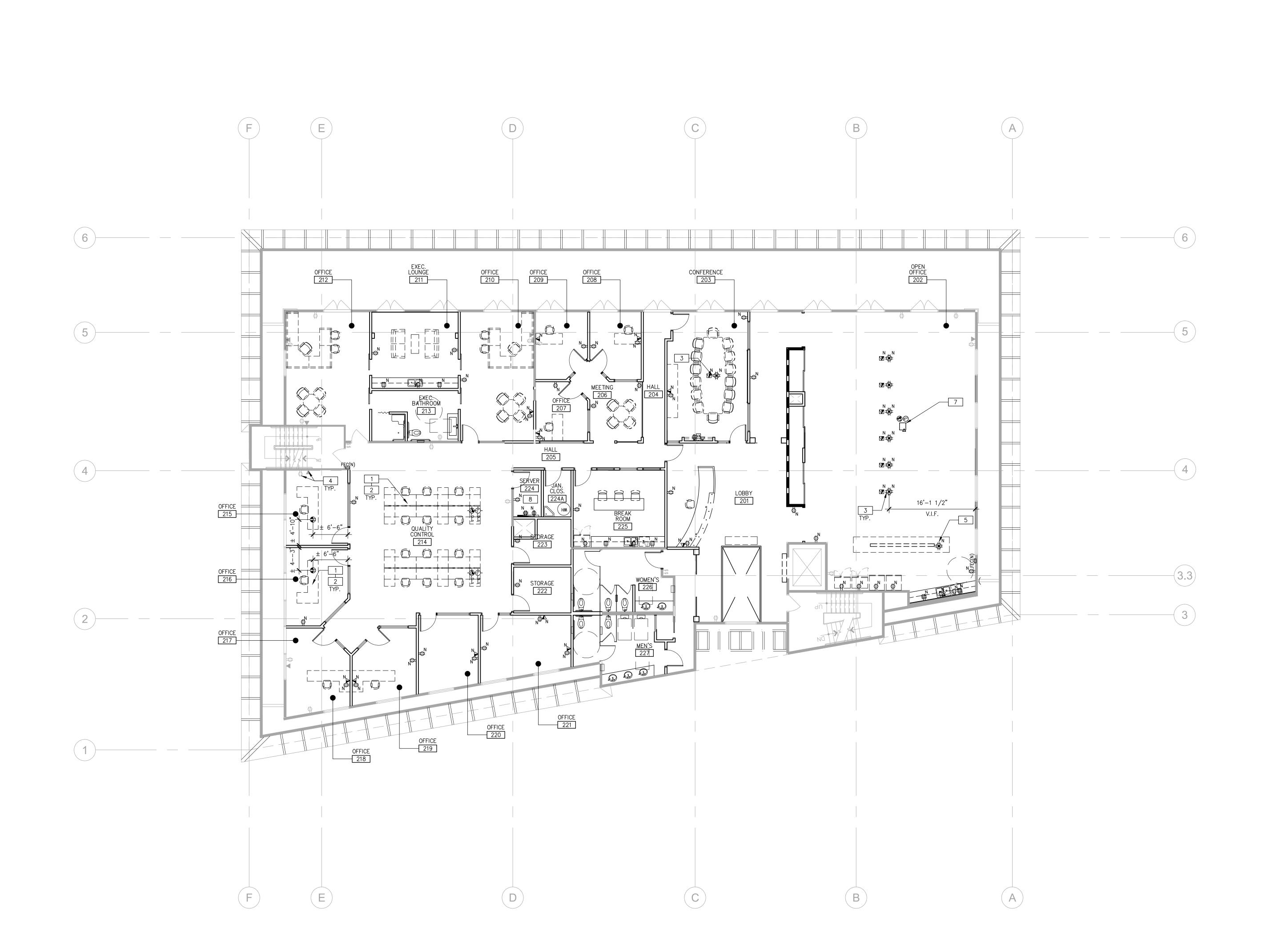
INDICATES AREA NOT IN CONTRACT (N.I.C.)



PARTITION PLAN - FLOOR 03

SHEET

A3.1



POWER & SIGNAL PLAN - FLOOR 03

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



SEE SHEET A0.2 FOR GENERAL NOTES

PLAN SPECIFIC NOTES

COMBINED NOTES FOR ALL POWER/SIGNAL PLAN SHEETS.

- ALL FURNITURE TO BE PROVIDED AND INSTALLED BY TENANT. VERIFY EXACT LOCATIONS WITH FURNITURE DEALER PRIOR TO INSTALLATION OF RELATED POWER & SIGNAL CONNECTIONS.
- 2 SEE ELECTRICAL DRAWINGS FOR ADDITIONAL POWER REQUIREMENTS AND INFORMATION.
- FLOOR POWER/DATA. CONFIRM DEVICE TYPES AND LOCATIONS WITH A-V VENDOR AND FURNITURE VENDOR. TO BE CENTERED ON TABLE IN THIS ROOM,
- 4 EXISTING ELECTRICAL OUTLET TO REMAIN.
- 5 VERIFY POWER REQUIREMENTS FOR USER PROVIDE EQUIPMENT PRIOR TO INSTALLATION OF RELATED POWER & SIGNAL CONNECTIONS.
- 6 COORDINATE MOUNTING HEIGHT WITH A-V VENDOR.
- 7 CEILING MOUNTED PROJECTOR BY A-V VENDOR. PROVIDE CEILING POWER AND DATA.
- 8 CONFIRM ROMM'S ELECTRICAL/DATA REQUIREMENTS AND LOCATIONS WITH TENANT PRIOR TO ROUGH IN.

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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.
- III
 NEW 110v. DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER OR SPLASH.
- \bigoplus_{N} NEW 110v. FOURPLEX RECEPTACLE, MOUNTED AT +18" A.F.F., U.O.N.
- #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. CLOCK OUTLET RECEPTACLE, MOUNTED VERTICALLY AT +18" A.F.F., U.O.N.
- 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
- $\odot_{\rm N}$ NEW JUNCTION BOX, CEILING-MOUNTED (IN ACCESSIBLE CEILING). SEE ELECTRICAL DRAWINGS.

TENGLISH PA / PM: DRAWN BY: KS JOB NO.: SDG11-6064-00

SHEET

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.

SEE SHEET A0.2 FOR GENERAL NOTES PLAN SPECIFIC 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 9'-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. - VERIFY FIELD CONDITION TO

SEE IF THIS IS POSSIBLE. 3 PROVIDE METAL STUDS AND DRYWALL SOFFIT AT 8'-0" A.F.F.

4 THIS AREA IS OPEN TO ABOVE.

5 CENTER LIGHT OVER NEW CONFERENCE TABLE.

6 ALL DOWNLIGHTS ARE TO BE DIMMABLE IN THIS ROOM. 7 PENDANT CLUSTER AT VARYING HEIGHTS. ACTUAL HEIGHTS TBD.

8 NEW FULLY RECESSED ELECTRIC PROJECTION SCREEN. OBTAIN SIZE/SPECIFICATIONS FROM OWNER'S AUDIO-VISUAL VENDOR.

9 NEW CEILING MOUNTED PROJECTOR: COORDINATE REQUIREMENTS WITH AUDIO-VISUAL VENDOR.

10 EXISTING CEILING TO REMAIN.

11 SWITCHES FOR PROJECTOR AND WINDOW SHADES: 2 SWITCHES IN ONE 2X

12 PROVIDE MANUAL, SURFACE MOUNT MECHOSHADES AT ALL EXTERIOR WINDOWS, TYPICAL THROUGHOUT U.O.N.. ALIGN GAPS AT THE CENTER OF THE MULLIONS. MECHOSHADE SYSTEMS: THERMOVEIL DENSE VERTICAL WEAVE SHADECLOTH 1000 SERIES "1004 BLACK/BROWN", 3% OPENNESS FACTOR.

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. 14 NEW DUAL PAINE FROSTED FINISH SKYLIGHT: COORDINATE REQUIREMENTS

/SPECIFICATION WITH SKYLIGHT VENDOR.

15 LIGHT FIXTURE

CODE SECTION 711.

16 REPLACE EXISTING SPRINKLER HEAD WITH NEW CONCEALED SPRINKLER 17 PROVIDE SMOKE GUARD DOOR AT ELEVATOR DOOR IN ACCORDANCE WITH P

RE 3 Design

REFLECTED CEILING LEGEND

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

NEW AREA OF 2'x2' SUSPENDED CEILING GRID & TILES: ARMSTRONG WOODWORKS 9/16" SQUARE TEGULAR. VENEER AND PERFORATION

NEW ARMSTRONG WOODWORKS LINEAR - TRANSITION FROM CEILING TO WALL. OR APPROVED EQUAL. SEE ELEVATION

EXISTING GYPSUM BOARD CEILING TO REMAIN.

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

NEW SURFACE MOUNTED LIGHT WITH DIRECT/INDIRECT LIGHT DISTRIBUTION: ZANEEN LIGHTING; NEVER ENDING PROFILE LIGHT SINGLE, MODEL #L3301300. OR APPROVED EQUAL.

NEW 2'x2' INDIRECT FLUORESCENT LIGHT FIXTURE. ARCHITECT TO APPROVE.

NEW 1'x8' PENDANT-HUNG FLUORESCENT LIGHT FIXTURE: DELTA LIGHT; NOBODY 300 P2254L. ALT 1: NEW 2'x4' INDIRECT FLUORESCENT LIGHT FIXTURE BY LIGHTOLIER; COFFAIRE II RECESSED FLUORESCENT- CFH2GPF232

NEW 1'x4' PENDANT-HUNG: ZANEEN; SPEED CONTROL MIX MODEL #L313510S, SILVER.

NEW MONORAIL SYSTEM LIGHT FIXTURE: FAST JACK HARLEY, SATIN NICKEL. OR APPROVED EQUAL.

ALT 1: NEW 2'x4' INDIRECT FLUORESCENT LIGHT FIXTURE BY LIGHTOLIER; COFFAIRE II RECESSED FLUORESCENT— CFH2GPF232

NEW RECESSED LINEAR LIGHTING: ZANEEN; IDAHO SYSTEM MODEL #L3926500. OR APPROVED EQUAL. NEW RECESSED DOWNLIGHT: ZANEEN - CAVE RECESSED L363220C,

ALT #1: CALCULITE MATRIX 4 1/2" X 4 1/2" ALT #2: CALCULITE HID DOWNLIGHT #C6E170VM

NEW PENDANT LIGHT FIXTURE: NICHE MODERN SOLITAIRE, SILICA SERIES "SMOKE". OR APPROVED EQUAL.

SWITCH - DECORA

SWITCH FOR MOTORIZED MECHOSHADES

SWITCH FOR CEILING PROJECTOR 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

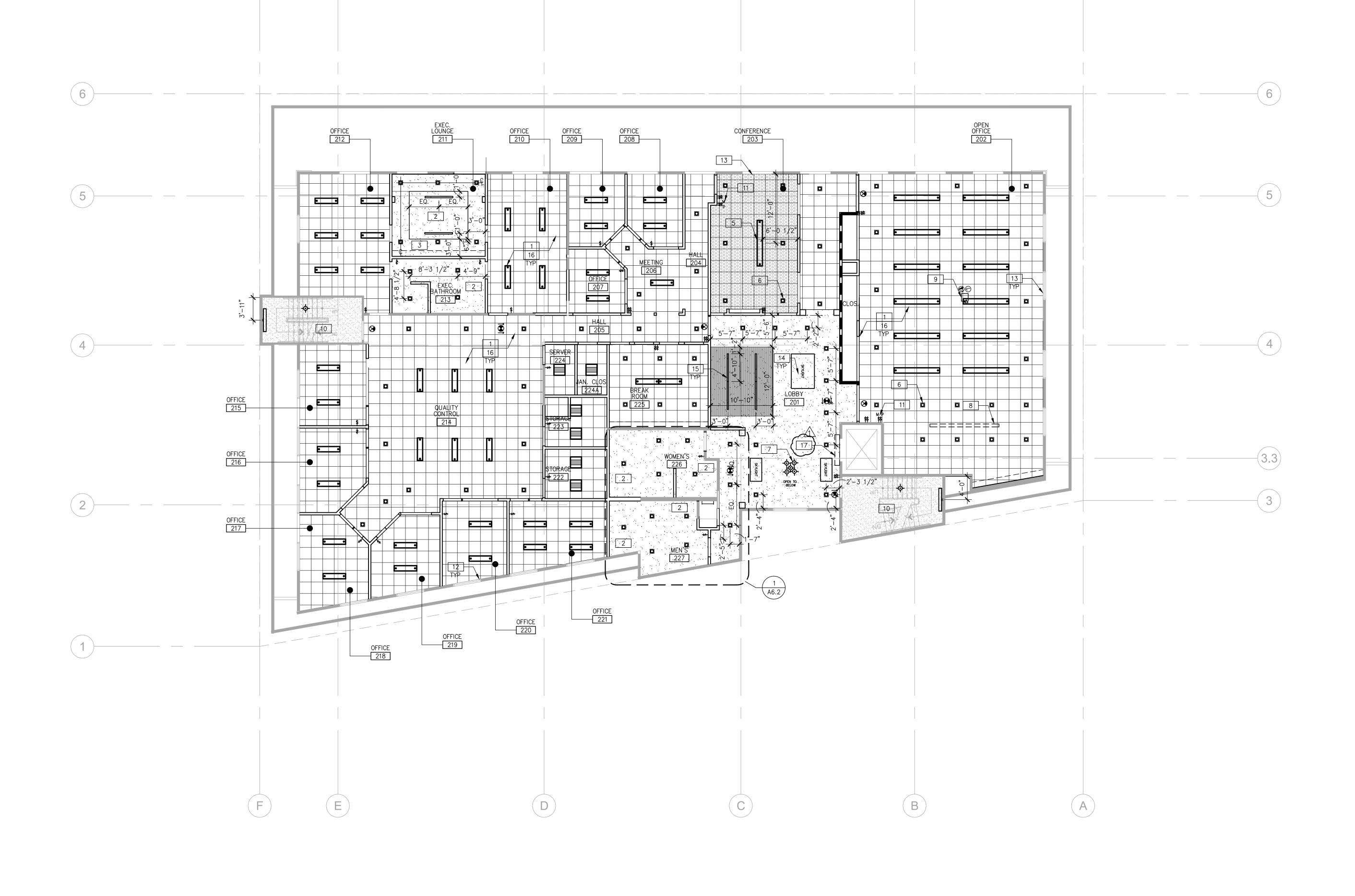
SHALL BE FROM STORAGE BATTERIES OR AN ON-SITE GENERATOR. NOTE: ADDITIONAL DIRECTIONAL EXIT SIGNS MAY BE REQUIRED PRIOR TO FINAL INSPECTION AND SUBJECT TO BUILDING INSPECTOR.

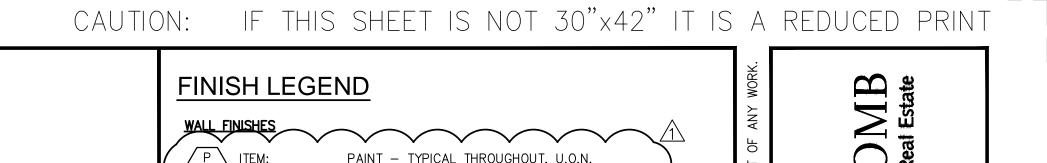




PA / PM:

TENGLISH DRAWN BY: KS JOB NO.: SDG11-6064-00 SHEET





PAINT - TYPICAL THROUGHOUT, U.O.N. 1 MFR: SHERWIN WILLIAMS COLOR/NO: IVORY LACE / SW7013 PAINT - ACCENT SHERWIN WILLIAMS WHOLE WHEAT / SW6121 SHERWIN WILLIAMS AVENUE TAN / SW7543 SHERWIN WILLIAMS FENLAND / SW7544 PAINT - ACCENT 5 MFR: SHERWIN WILLIAMS COLOR/NO: LUAU GREEN / SW6712 6 MFR: BENJAMIN MOORE CARAMEL LATTE / 2166-20 SHERWIN WILLIAMS PERFECT GREIGE / SW6073 FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING PAINT SEE www.waremalcomb.com/ws/09900-001.pdf LUNAR DUST 114 COLOR/NO:

STRAIGHT @ CARPET / COVED @ RESILIENT FLOORING RUBBER BASE, DECORATIVE - CONFERENCE

STRAIGHT @ CARPET / COVED @ RESILIENT FLOORING GLASS WALL MOSAIC VOGUEBAY (DALTILE) GREAT WALL A10-R; MG01 OPTIC WHITE, GLOSSY

NOTE: LEAD TIME - IN STOCK GLASS WALL MOSAIC - RESTROOMS VOGUEBAY (DALTILE) COLOR/NO: ICEBERG MOSAIC MBS109

LEAD TIME - IN STOCK VOGUEBAY (DALTILE) GROUT: MAPEI #14 BISCUIT

VOGUEBAY (DALTILE) MANUFACTURER: SCOTT CHOÙINARD CONTACT: PHONE NUMBER: (951) 757-4919

CERAMIC TILE BASE STONE SOURCE TRANQUILITY CREMA LUNA "POLISHED" 4"x12" (CUT FROM 12X12) MAPEI #14 BISCUIT GROUT: NOTE: 6 WEEK LEAD TIME (APROX.)

CERAMIC TILE BASE STONE SOURCE TRANQUILITY CREMA LUNA "MATTE" COLOR/NO: 4"x12" (CUT FROM 12X12) MAPEI #14 BISCUIT LEAD TIME - IN STOCK (PLEASE CONFIRM WITH MFR.)

LYNNE DOMNITZ

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING

FLOOR FINISHES

CARPET - TYPICAL THROUGHOUT, U.O.N. SHAW CONTRACT GROUP STYLE: MINIMAL TILE #59164 COLOR/NO: MARGIN #64155 INSTALLATION: MONOLITHIC, GLUE-DOWN 6 WEEKS LEAD TIME (APROX.)

SHAW CONTRACT GROUP ABSTRACT EDGE TILE #59145 COLOR/NO: PAPRIKA MARGIN #67156 INSTALLATION: MONOLITHIC, GLUE-DOWN 6 WEEKS LEAD TIME (APROX.) CARPET - STAIR NOSING SHAW CONTRACT GROUP

SCALE #59595 COLOR/NO: PAPRIKA #95668 INSTALLATION: GLUE-DOWN NOTE: 6 WEEKS LEAD TIME (APROX.)

SHAW CONTRACT GROUP MANUFACTURER: CATHY MILLER PHONE NUMBER: (760) 815-7371

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING

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

STONE SOURCE COLOR/NO: TRANQUILITY CREMA LUNA "POLISHED" GROUT: MAPEI #14 BISCUIT NOTE: 6 WEEK LEAD TIME (APROX.)

CFT ITEM: CERAMIC FLOOR TILE - BREAK AND RESTROOMS 2 MFR: STONE SOURCE COLOR/NO: TRANQUILITY CREMA LUNA "MATTE" GROUT: MAPEI #14 BISCUIT

LEAD TIME - IN STOCK (PLEASE CONFIRM WITH MFR.)

CONTACT LIST

NOTE:

MANUFACTURER: STONE SOURCE CONTACT: LYNNE DOMNITZ

FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING

RB ITEM:
MFR: COLOR/NO: 12 3/4"x 11 3/8" SHT GROUT: 12"x12" GROUT: NOTE: LEAD TIME - IN STOCK CONTACT LIST 1 MFR: CTB ITEM:
MFR: **CONTACT LIST** MANUFACTURER: STONE SOURCE CONTACT: PHONE NUMBER: (760) 212-1158 CERAMIC TILE SEE www.waremalcomb.com/ws/09310-001.pdf 1 MFR: CONTACT LIST

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TENGLISH

DRAWN BY: KS SHEET

PA / PM:

SYMBOLS LEGEND MISCELLANEOUS FINISHES 4 | ALL STAIRS TO BE FINISHED WITH CARPET C-1 WITH CONTRASTING CARPET C-3 AT STAIR NOSING AS REQUIRED FOR ADA. SEE DETAIL __ ON SHEET

INDICATES LINE OF FLOOR TRANSITION

PL ITEM:
MFR:
COLOR COLOR/NO:

PLASTIC LAMINATE - ACCENT CHEMETAL LINEAR ALUMINUM PLASTIC LAMINATE - RESTROOM PARTITION CHEMETAL

CAESARSTONE QUARTZ SURFACES

NEVAMAR

COLOR/NO: KONA BLEND #WZ0028PV

COLOR/NO: KALEIDOSCOPE #407

PLASTIC LAMINATE - VERTICAL SURFACES

MANUFACTURER: PHONE NUMBER: MANUFACTURER:

KYLE ROGALSKI (818) 394-6000 AMERICAN STONE COMPANY (818) 982-7770

ARIZONA TILE

SOLID SURFACE MATERIAL - RESTROOM COUNTER

8

PHONE NUMBER: (619) 838-8825

LEAD TIME -

MANUFACTURER:

ASHA PARKER — APARKER@ARIZONATILE.COM

COLOR/NO: ODYSSEY ENGINEERED MARBLE "CALCATTA" **CONTACT LIST**

> CAESARSTONE QUARTZ SURFACES CONTACT: PHONE NUMBER:

TYPE: MARBLE MFR: ARIZONA TILE, CONTACT ASHA PARKER — SIZE: 12"x12"X3/8" POLISHED GROUT: 3-5 DAYS LEAD TIME - IN STOCK NOTE: STONE FLOOR COVERING SEE

VINYL COMPOSITION TILE - FIELD TILE 1 MFR: ARMSTRONG COLOR/NO: SIZE: 12"x12" SFT ITEM: STONE FLOOR TILE APARKER@ARIZONATILE.COM , CELL: 619.838.8825

FINISH PLAN - FLOOR 03

SEE SHEET A0.2 FOR GENERAL NOTES PLAN SPECIFIC NOTES COMBINED NOTES FOR ALL FINISH PLAN SHEETS. 1 ALL ROOMS TO RECEIVE PAINT (P-1), RUBBER BASE (RB-1) AND CARPET (C−1), U.O.N. 2 PAINT IN THIS ROOM TO BE SEMI-GLOSS. INDICATES LOCATION OF NON-TYPICAL WALL FINISH 3 GYP. BD. SOFFIT/CEILING TO RECEIVE PAINT (P-1)

A8.3. ALSO PROVIDE RUBBER STRINGER TO MATCH RB-1, U.O.N.

8 PROVIDE MARLITE WOOD PANELING. STAIN TO MATCH PL-2 "KONA BLEND". SEE ELEVATION _____ FOR DETAILS.

9 NEW ARMSTRONG WOODWORKS LINEAR — TRANSITION FROM CEILING TO WALL. OR APPROVED EQUAL.

5 SEE ENLARGED RESTROOM SHEETS FOR WALL FINISHES.

6 SEE MILLWORK ELEVATIONS FOR FINISHES.

7 EXISTING FINISHES TO REMAIN IN THIS ROOM.

GL ITEM: MFR: COLOR

GLASS - OPEN CEILING RAILING COLOR/NO: TBD NOTE: LEAD TIME-GL ITEM: 2 MFR: GLASS - RECEPTION TRANSACTION COUNTER

TBD COLOR/NO: NOTE: LEAD TIME-PLASTIC LAMINATE - RECEPTION WORK COUNTER MFR: NEVAMAR
COLOR/NO: SMOKY WHITE #S7027T

MFR: COLOR/NO: #1141 "WHITE" — PENDING OWNER APPROVAL NOTE: SSM ITEM:
MFR:
COLOR COLOR/NO:

PL ITEM: 4 MFR: COLOR

SSM ITEM:

PL ITEM:
MFR:
COLOR

NOTE: LEAD TIME -

SOLID SURFACE MATERIAL - BREAK ROOM ISLAND COUNTER AMERICAN STONE COMPANY ODYSSEY ENGINEERED MARBLE "CRYSTAL WHITE"

SOLID SURFACE MATERIAL BREAK ROOM COUNTER

LEAD TIME - IN STOCK (PLEASE CONFIRM WITH MFR.)

AMERICAN STONE COMPANY

www.waremalcomb.com/ws/09638-001.pdf

MC EMPERADOR DARK (ARCHITECT TO PROVIDE CONTROL SAMPLE FOR COLOR RANGE) FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING

PHONE NUMBER: (760) 212-1158 CERAMIC TILE SEE www.waremalcomb.com/ws/09310-001.pdf

JOB NO.: SDG11-6064-00

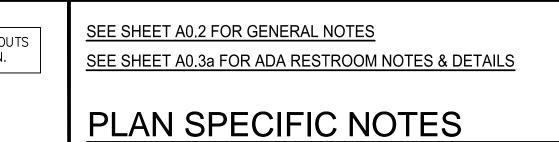
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3

6863 FRIAR



1 WATER CLOSET — FULLY ACCESSIBLE, FLOOR—MOUNTED WITH FLUSH VALVE. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

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

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

4 PROVIDE ALL NEW FLOOR MOUNT TOILET PARTITIONS.

5 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.

6 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. 7 SOAP DISPENSER – COUNTER MOUNT

8 PAPER TOWEL DISPENSER & WASTE RECEPTACLE, RECESSED — BOBRICK B-3944.

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

10 TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER, PARTITION MOUNTED — BOBRICK B—3579. (SERVES ONE TOILET COMPARTMENT.)

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

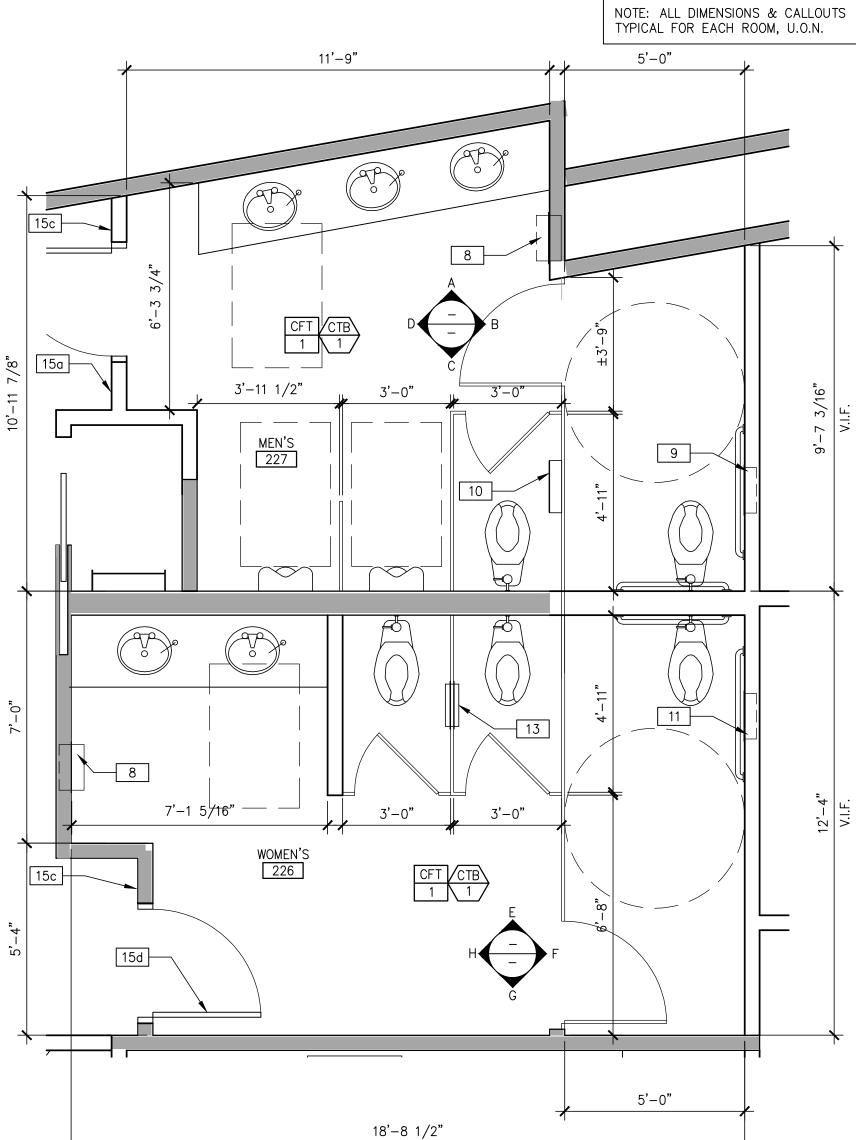
12 NOTE NOT USED

13 TOILET SEAT COVER DISPENSER & TOILET TISSUE DISPENSER - PARTITION MOUNTED, BOBRICK B-347. (SERVES TWO TOILET COMPARTMENTS)

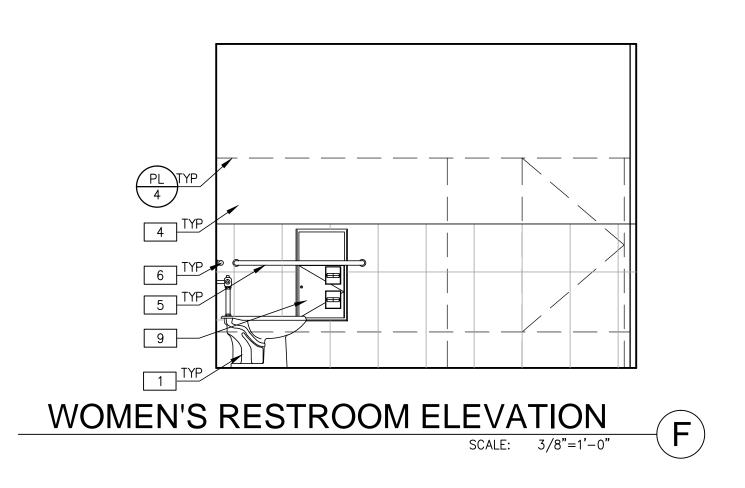
14 24x48 MIRROR AT SINK WITH BUILT-IN LIGHTING. ARCHITECT TO APPROVE.

ADA SIGNAGE FOR WALLS AND DOORS. SEE DETAIL 2 ON SHEET AO.3a.

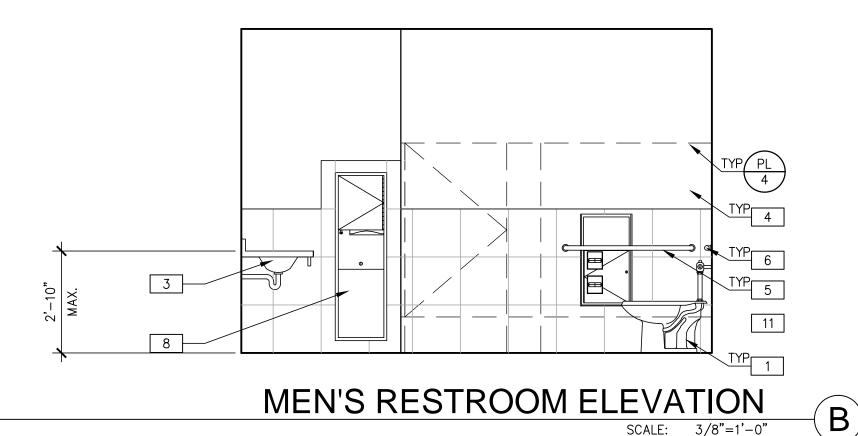
a) MEN'S WALL-MOUNTED SIGN
b) WOMEN'S WALL-MOUNTED SIGN
c) MEN'S DOOR-MOUNTED SIGN d) WOMEN'S DOOR-MOUNTED SIGN



ENLARGED RESTROOM PLAN
SCALE: 3/8"=1'-0"

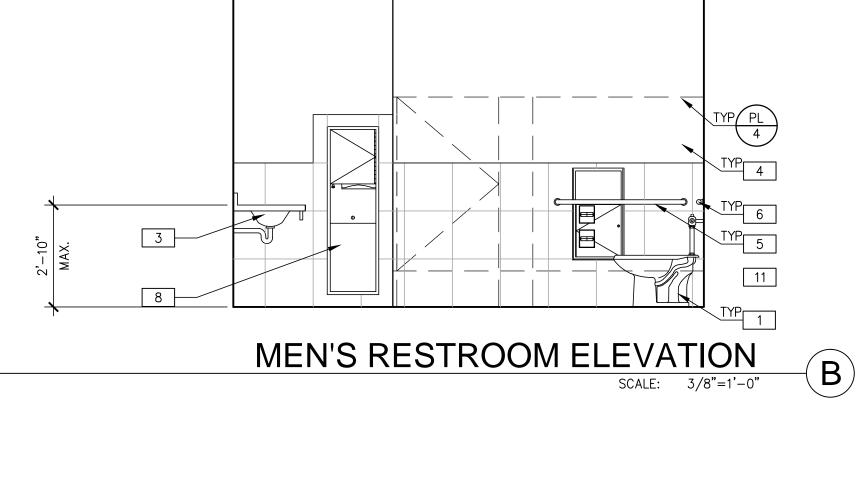


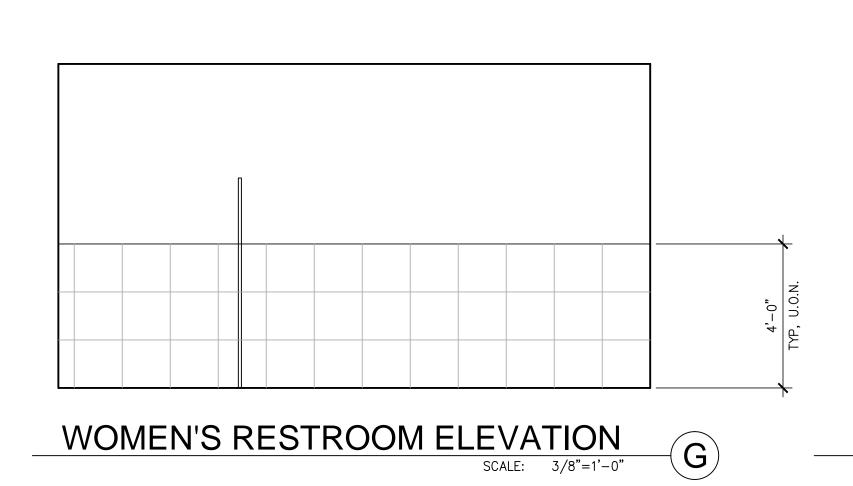
WOMEN'S RESTROOM ELEVATION

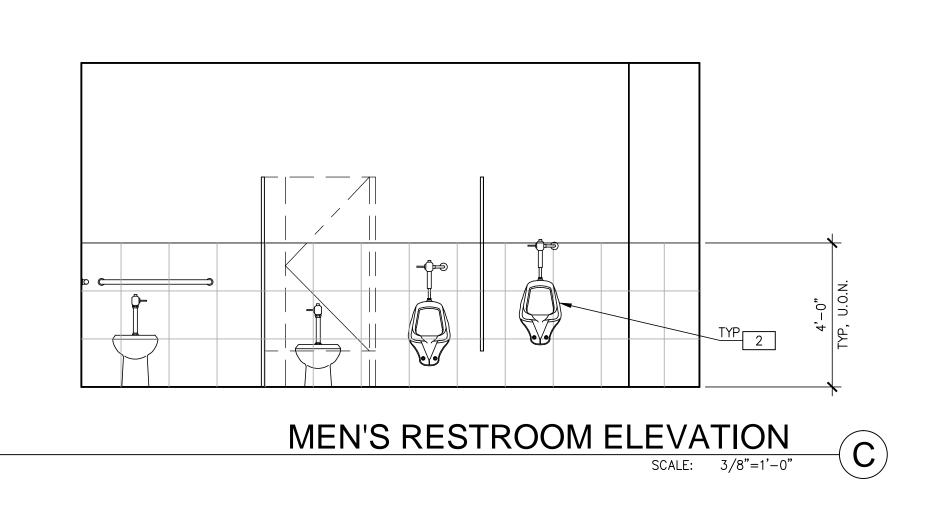


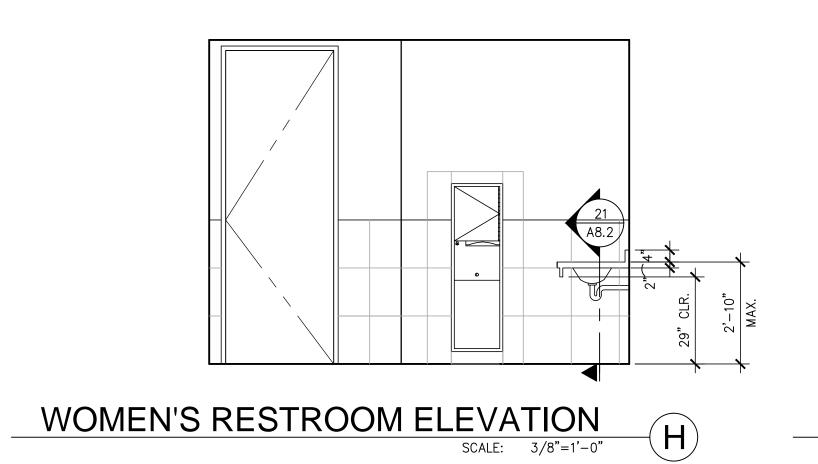
MEN'S RESTROOM ELEVATION

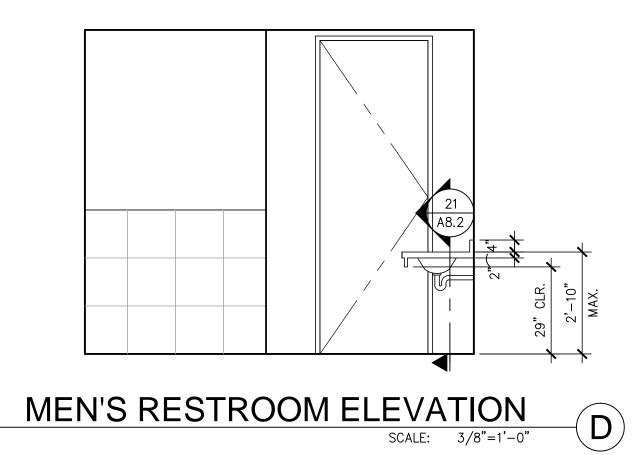
SCALE: 3/8"=1'-0"

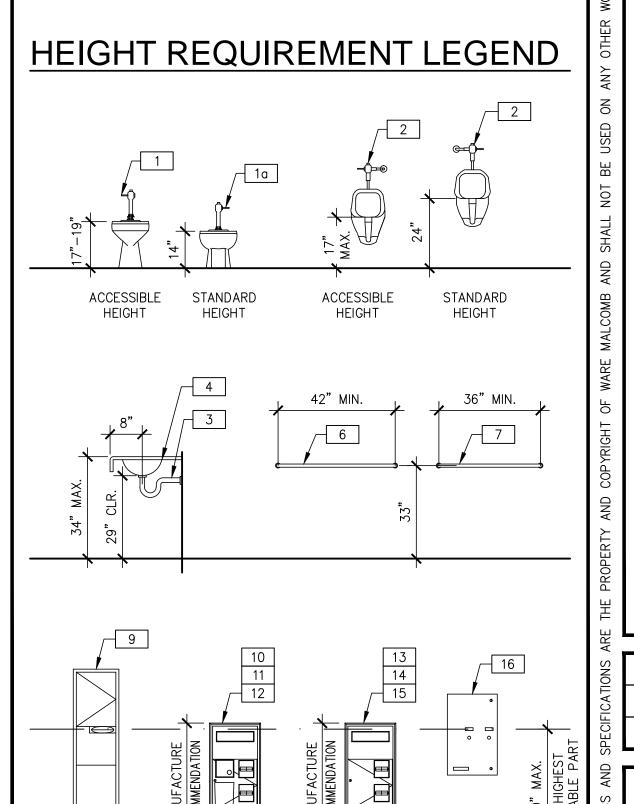


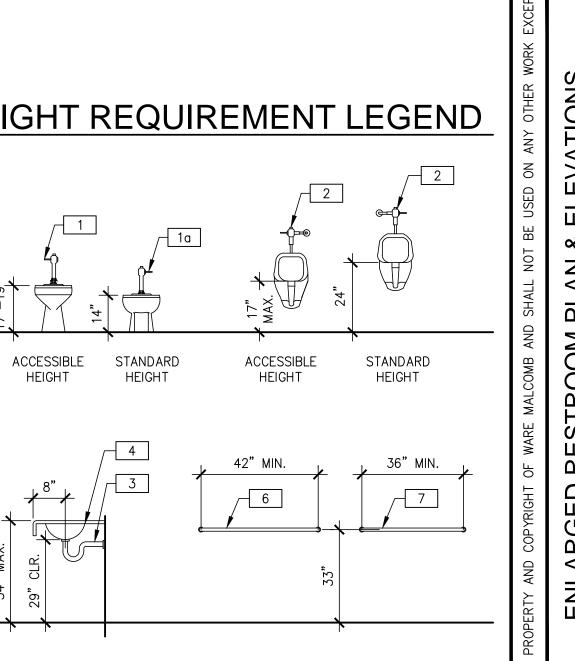












DRAWN BY: JOB NO.:

EXECUTIVE RESTROOM ELEVATION

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

MALC for Commercial 1 WATER CLOSET — FULLY ACCESSIBLE, FLOOR—MOUNTED WITH FLUSH VALVE. (SEE PLUMBING DRAWINGS FOR SPECIFICATIONS.)

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

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

8 24x48 MIRROR AT SINK WITH BUILT-IN LIGHTING. ARCHITECT TO APPROVE.

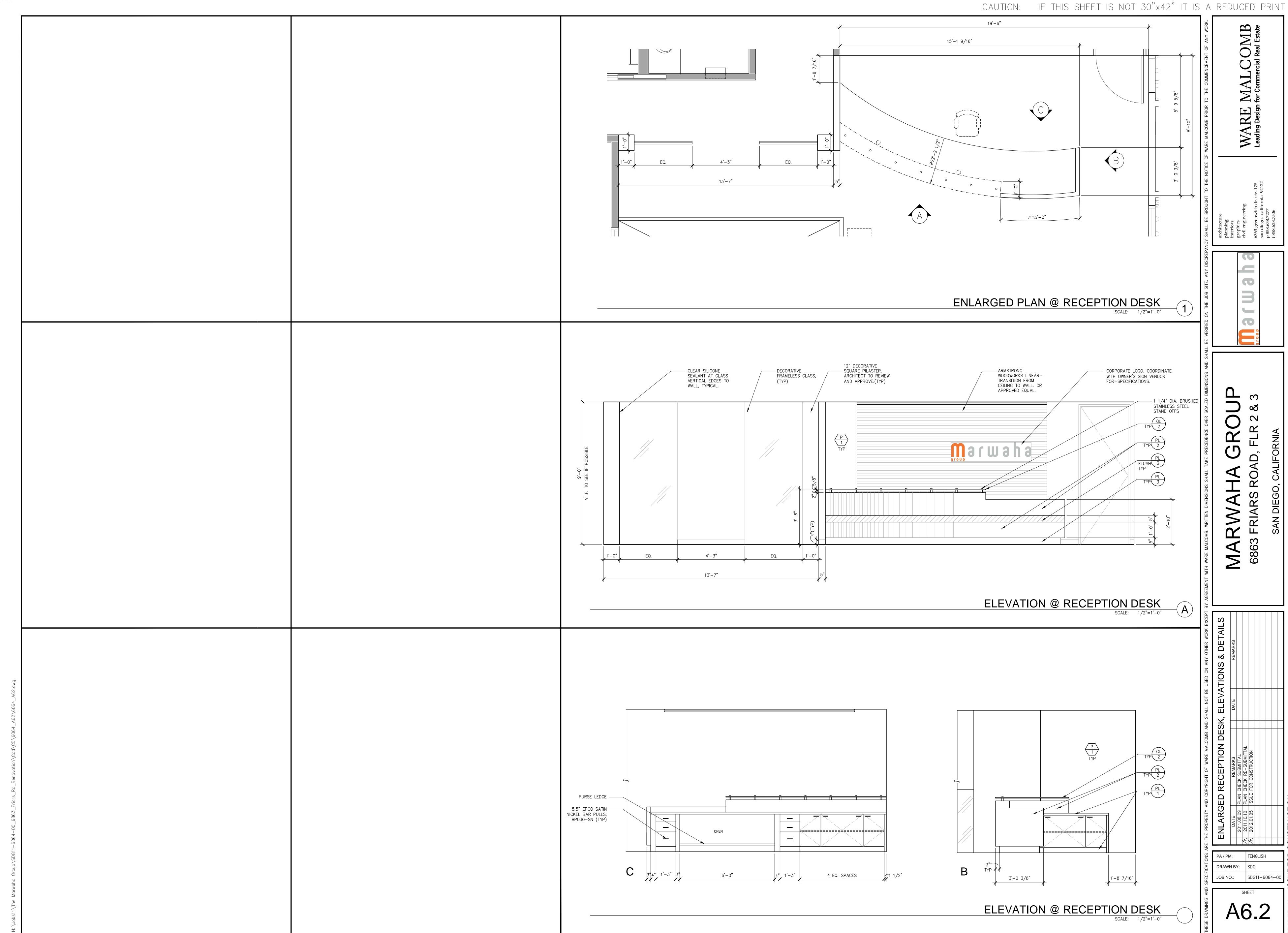
9 FOLD-UP SOLID PHENOLIC SHOWER SEAT - BOBRICK B-5181.

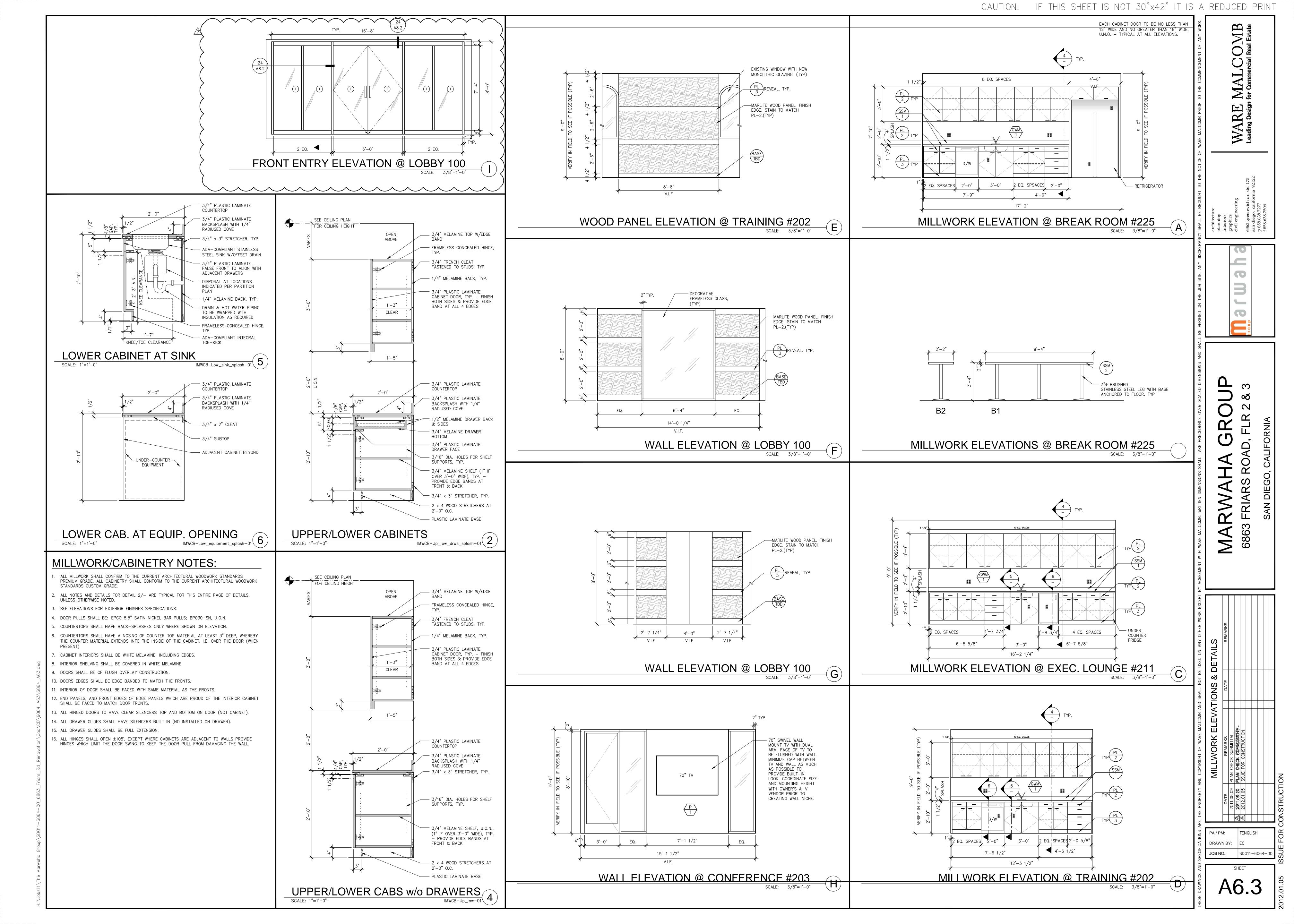
PROVIDE SHOWER ROD BOBRICK B-6107 STAINLESS STEEL FINISH & SHOWER CURTAIN BOBRICK 204-2 W/(12) STAINLESS STEEL SHOWER CURTAIN HOOKS, BOBRICK 204-1.

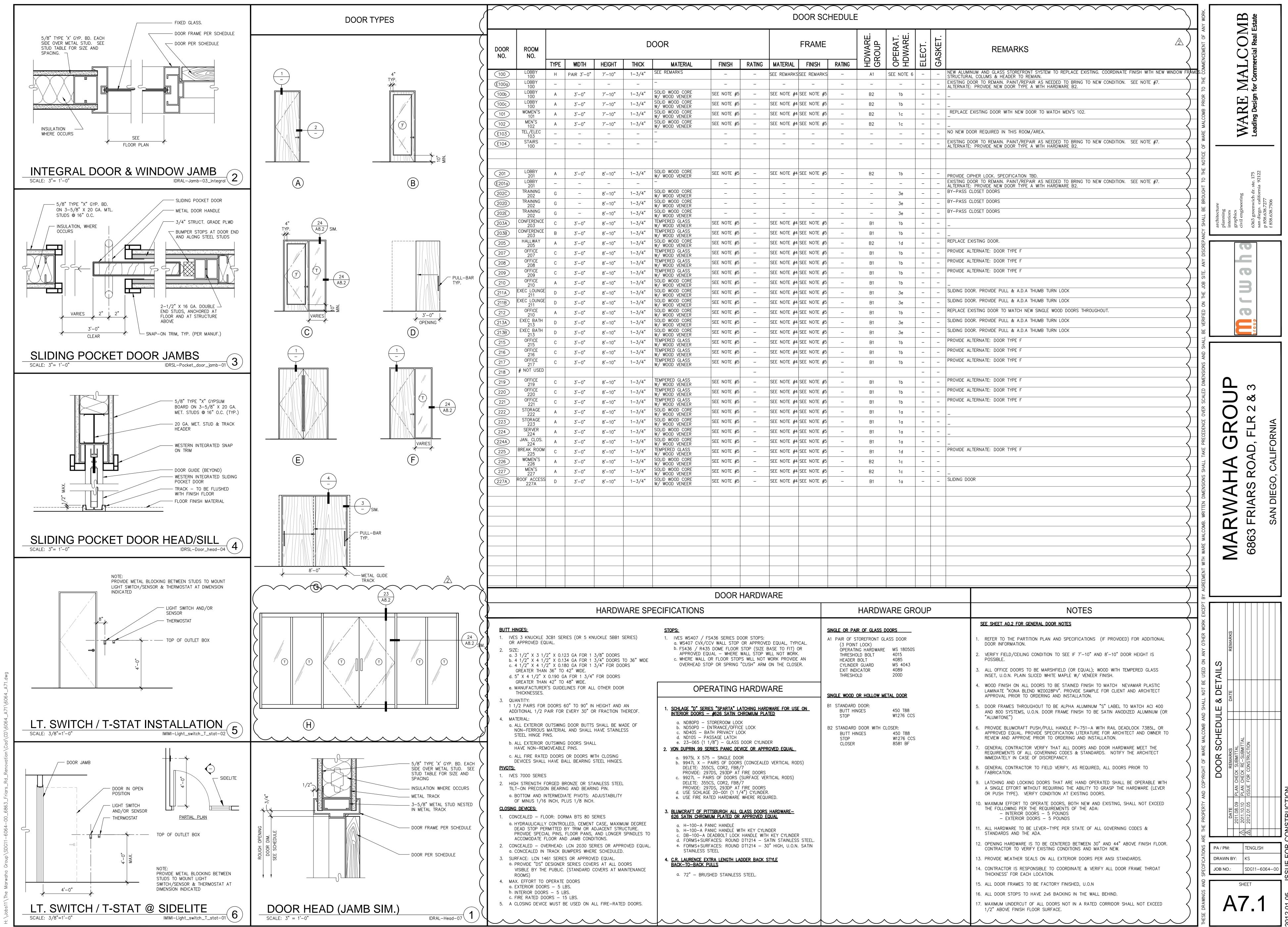
3

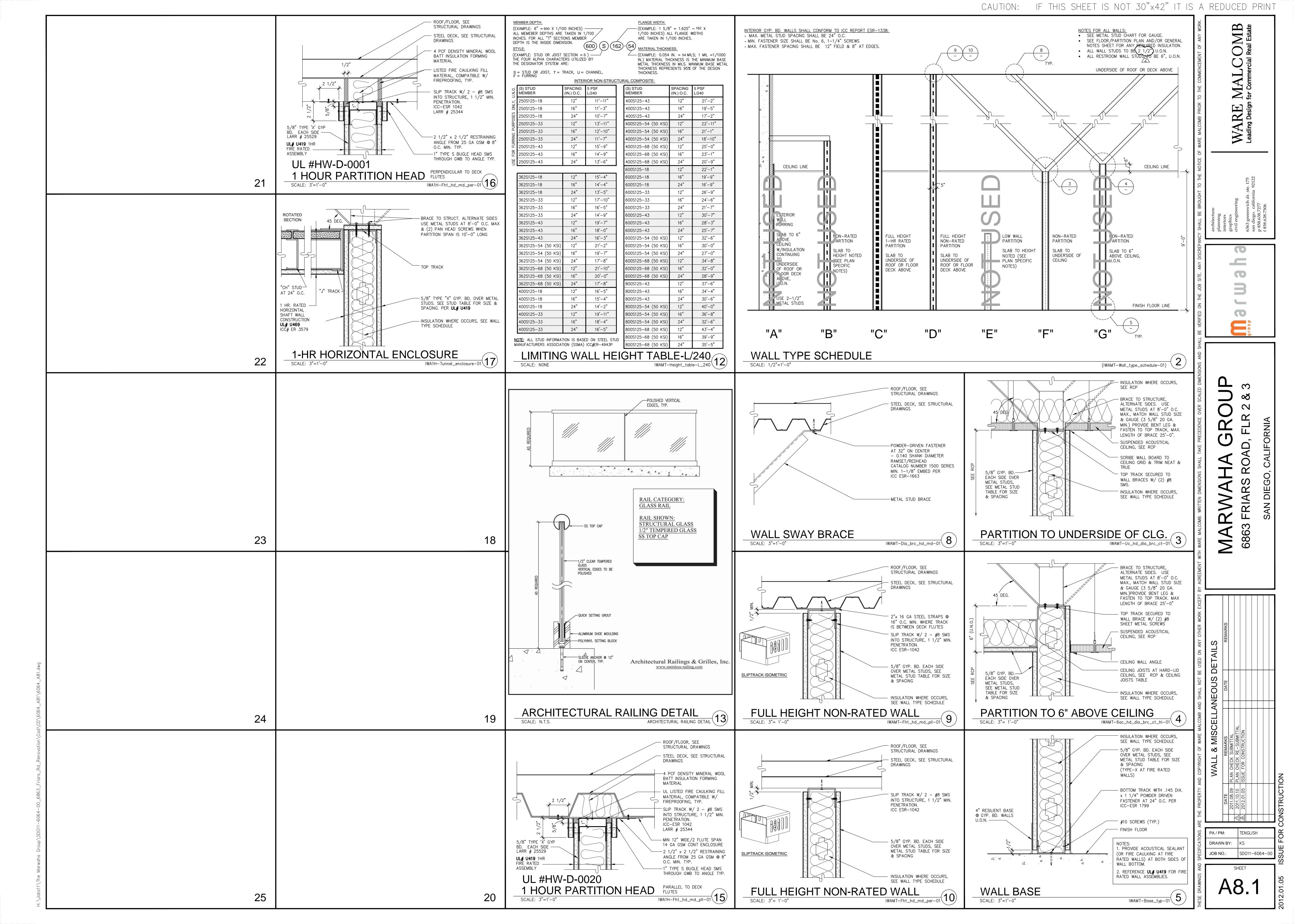
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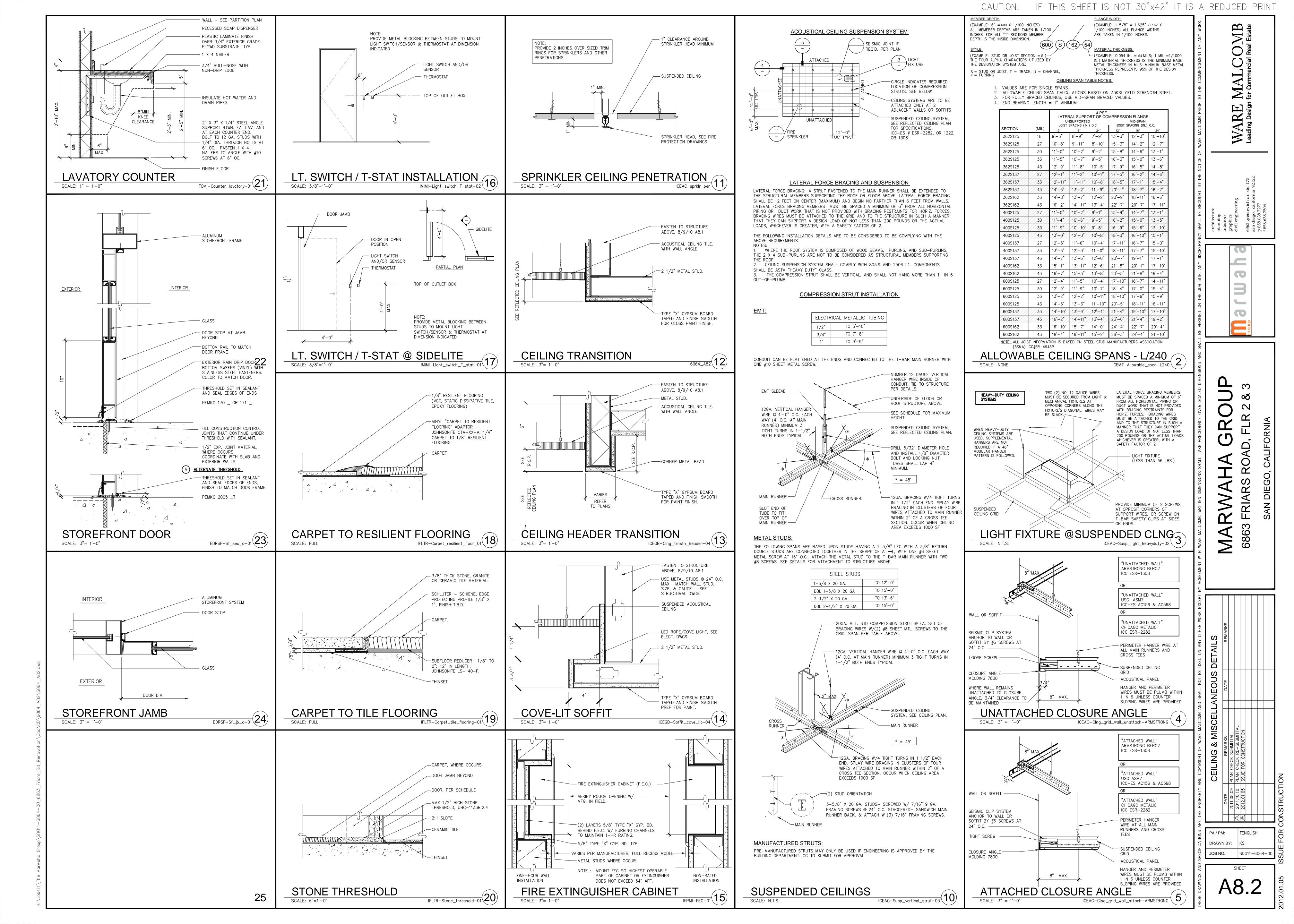
JOB NO.:

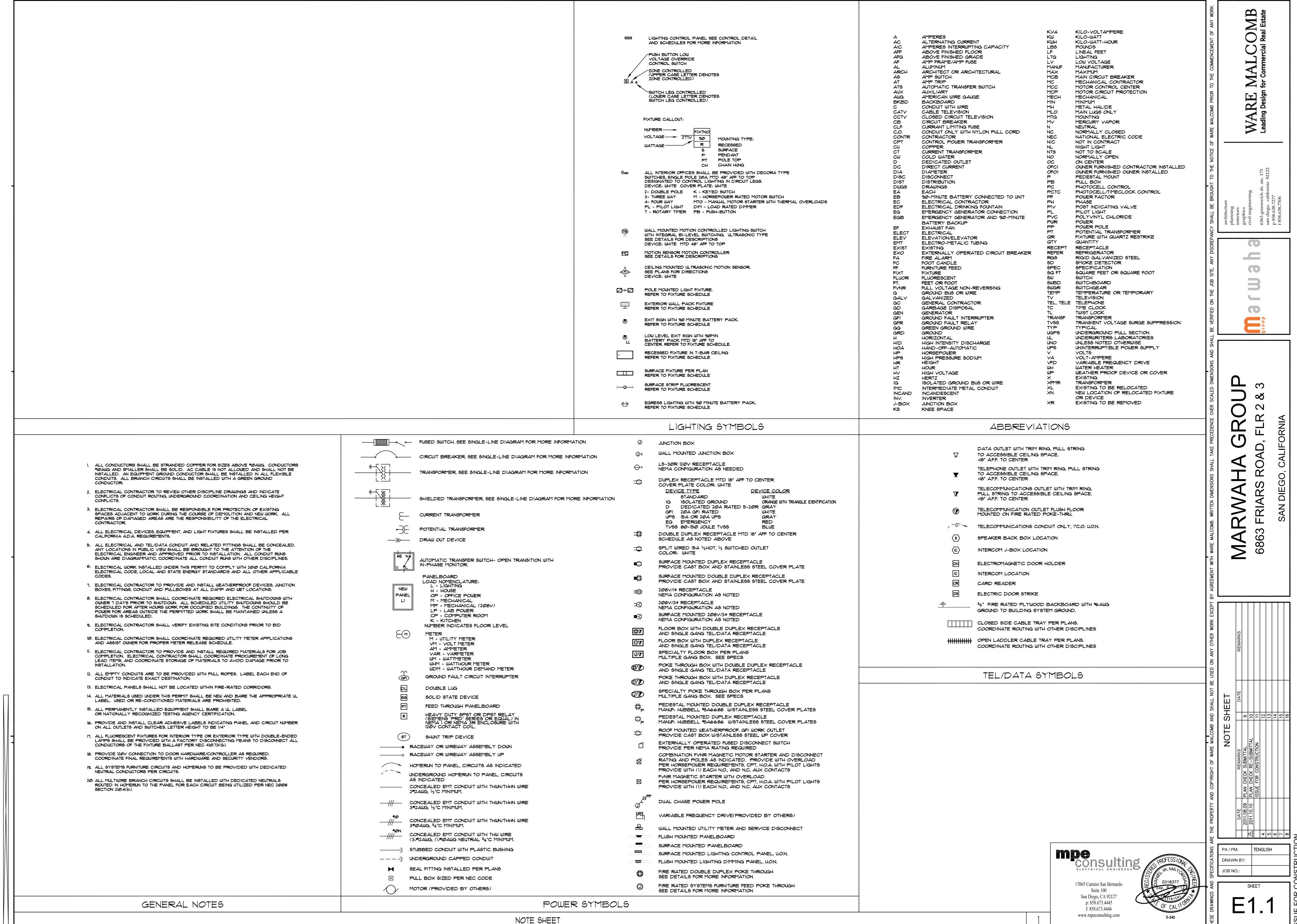












CAUTION: IF THIS SHEET IS NOT 30 x42 IT IS A REDUCED PRIN

LTG-3C

9/1/2011

 $PER (ft^2) X BLDG. AREA =$

TOTALS

TOTALS

Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3

The indoor lighting power allowance using the Tailored Method of compliance shall be determined using the LTG-4C set of forms. A separate set of LTG

4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces

EnergyPro 5.1 by EnergySoft User Number: 6423 RunCode: 2011-09-01710:32:33 ID: 11-243

Area ft²

AREA

= WATTS

WATTS

PER (ft²)

MB Estate	
Real	
₩	
\mathbb{ALC} Commercial	
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WARE Leading Design

989

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TITLE 24	Щ	24	
EMARKS		DATE	REMARKS
UBMITTAL	6		
E-SUBMITTAL	10		
ISTRUCTION	=		
	12		
	13		
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	15		
	16		

DRAWN BY: JOB NO.:

CERTIFICATE OF COMPLIANCE (Part 2 of 4) CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1C 9/1/2011 Marwuaha Group Marwuaha Group INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST Installation Certificate, LTG-1- INST (Retain a copy and verify form is completed and signed Field Inspector Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2,500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls Certificate of Acceptance, LTG-2A (Retain a copy and verify form is completed and signed.) Field Inspector general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on controls for retail stores > 50,000 ft², in accordance with Section 131. MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST ☐ UNCONDITIONED SPACE The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the OCC SENSOR AS SHOWN AS SHOWN calculation of actual indoor lighting power density in accordance with the Exception to §146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below. Luminaire (Type, Lamps, Ballasts) Was determined Complete Luminaire Description¹ (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballasts) F1 (1) 28w Linear Fluorescent T5 Elec F10 (2) 24w Linear Fluorescent T5 HO Elec F2 60w Incandescent F3 35w Metal Halide F4 (2) 54w Linear Fluorescent T5 HO Elec F5 45w per ft Track Light F6 (4) 28w Linear Fluorescent T5 Elec/(4) 35WMR16 F7 (2) 28w Linear Fluorescent T5 Elec/(2) 35WMR16 F8 (2) 2 ft Fluorescent T8 Elec SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C) The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation Installed Watts Page Total: 13,660

Installed Watts Building Total

(Sum of all pages)

Enter into LTG-1C Page 4 of 4 13,660

				\mathbf{X} \mathbf{X}	X
Company			8	9/1/2011	/ \
Address 17065 Camino San Be	ernardo Ste 100			EA # EPE #	
City/State/Zip San Diego, CA 92127			Pł	none (858) 673-444	5
lighting design. This Certificate of Comcompliance with Title 2 The design features reto document this design specifications submitted.	vision 3 of the Ca npliance identifie 24, Pages 1 and epresented on th gn on the other a	eclaration Stateme alifornia Business and F es the lighting features a 6 of the California Cod is Certificate of Complia applicable compliance for ement agency for appro-	Professional Co and performan e of Regulation ance are consi orms, workshe wal with this bu	ce specifications rens. stent with the informets, calculations, pl	quirec
Name Daniel Mayorgas			Signature		
Company MPE Consulting			Phone	858-673-4445	
Address 17065 Camino San Be	ernardo		License #	EØ18377	
City/State/Zip San Diego, CA 92127			Date	Ø9-ØI-II	
Lighting Mandatory Measures Indicate location on building plans of N	Mandatory Measures	Note Block:			
LIGHTING COMPLIANCE FO			workshoote is	s included)	
For detailed instructions on the use of by the California Energy Commission.	this and all Energy				tial Mar
☐ LTG-1C Pages 1 through 4		Compliance. All Pages requir	ed on plans for all	submittals.	
☑ LTG-2C		rols Credit Worksheet	SE OF PIGES OF GIE	- Salimuo.	
☑ LTG-3C					
		g Power Allowance			
LTG-3C LTG-4C Pages 1 through 4 LTG-5C Pages 1 and 2	Tailored Meth	od Worksheet Track Lighting Worksheet			
LTG-4C Pages 1 through 4	Tailored Meth	od Worksheet			
LTG-4C Pages 1 through 4 LTG-5C Pages 1 and 2	Tailored Meth	od Worksheet	0:32:33 ID	: 11-243	
LTG-4C Pages 1 through 4 LTG-5C Pages 1 and 2	Tailored Meth Line Voltage	od Worksheet Track Lighting Worksheet	0;32;33 ID	: 11-243	
LTG-4C Pages 1 through 4 LTG-5C Pages 1 and 2 EnergyPro 5.1 by EnergySoft Use	Tailored Meth Line Voltage	od Worksheet Track Lighting Worksheet RunCode: 2011-09-01T1		211-243 Part 4 of 4)	
LTG-4C Pages 1 through 4 LTG-5C Pages 1 and 2 EnergyPro 5.1 by EnergySoft Use CERTIFICATE OF CO	Tailored Meth Line Voltage T	od Worksheet Track Lighting Worksheet RunCode: 2011-09-01T1			
LTG-4C Pages 1 through 4 LTG-5C Pages 1 and 2 EnergyPro 5.1 by EnergySoft Use	Tailored Meth Line Voltage Ter Number: 6423	RunCode: 2011-09-0171	(F	Part 4 of 4)	

Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces

13,660 Installed Lighting (from Unconditioned LTG-1C, Page 2)

10,944 Allowed Lighting Power
Unconditioned Spaces (from LTG-30

conditioned Spaces (from LTG-2C

Complies if **Installed ≤ Allowed**

Lobby 1

Lobby 2

Lobby 2

Rest Room 1

Rest Room 1

Rest Room 2

Stairwell

Training Room

Training Room

Break Room

LTG-2A

Sensors and

Automatic Daylighting Controls

Acceptance

2.732 Lighting Control Credit

Lighting Power

10,928 Adjusted Installed

Watts

This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system,

a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference

party to budget for the scope of work appropriately. Forms can be grouped by type of Luminaire controlled.

system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.

Controls for Credits

35w Metal Halide

60w Incandescent

35w Metal Halide

35w Metal Halide

35w Metal Halide

Ow Incandescent

35w Metal Halide

35w Metal Halide

45w per ft Track Light

(2) 54w Linear Fluorescent T5 HO Ele

(2) 54w Linear Fluorescent T5 HO Ele

(2) 24w Linear Fluorescent T5 HO Ele

(2) 24w Linear Fluorescent T5 HO Ele

(1) 28w Linear Fluorescent T5 Elec

(4) 28w Linear Fluorescent T5 Elec/(4)

EnergyPro 5.1 by EnergySofi User Number: 6423 RunCode: 2011-09-01T10:32:33 ID: 11-243

Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible

Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting

The LTG-2A form is not considered a complete form and is not to be accepted by the enforcement agency unless the boxes are

certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of

checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that

§10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive

final occupancy. A copy of the LTG-2A for each different lighting luminaire control(s) must be provided to the owner of the building

LTG-2A. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be

certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires

Installed Lighting (from Conditioned LTG-1C, Page 2)

Conditioned Spaces (from LTG-2C

Complies if **Installed ≤ Allowed**

Required Acceptance Tests

Enforcement Agency:

Equipment Requiring Testing

Occ Sensor - Multi-Level

Occ Sensor - Multi-Level

Occ Sensor - Multi-Level

cc Sensor - Multi-Level

cc Sensor - Multi-Level

Occ Sensor - Multi-Level

Occ Sensor - Multi-Level

cc Sensor - Multi-Level

Occ Sensor - Multi-Level

Occ Sensor - Multi-Level

cc Sensor - Multi-Level

Occ Sensor - Multi-Level

cc Sensor - Multi-Level

cc Sensor - Multi-Level

Occ Sensor - Multi-Level

Allowed Lighting Power Conditioned Spaces (from LTG-3C or PERF-1)

Lighting Control Credit

Adjusted Installed

Building Type: ☑ Nonresidential □ High-Rise Residential □ Hotel/Motel Guest Room

☐ School ☐ Relocatable Public ☐ Conditioned Spaces ☐ Unconditioned Spaces

(Part 1 of 4)

10,198

9/1/2011

CERTIFICATE OF COMPLIANCE

Phase of Construction: ☐ New Construction ☐ Addition

Documentation Author's Declaration Statement

Method of Compliance: ☐ Complete Building ☐ Area Category

Marwuaha Group

6863 Friars Rd. San Deigo

GENERAL INFORMATION

CERTIFICATE OF	COMPLIANCE		(Part 4 of 4)	LTG-1C
Project Name <i>Marwuaha Group</i>				Date 9/1/2011
,	ONDITIONED SPACE LIGHTI	NG MUST N	OT BE COMBINED FOR COMPL	
	ver for Conditioned Spaces		door Lighting Power for Uncondition	
	Watts	3		Watts
Installed Lighting (from Conditioned LTG-1C, Page 2	2) 1	3,660 Install	ed Lighting nconditioned LTG-1C, Page 2)	(
Lighting Control Credit Conditioned Spaces (from LTG-2C		Lightin	g Control Credit litioned Spaces (from LTG-2C)	- (
Adjusted Installed Lighting Power			ed Installed	= (
Complies if Installed ≤ Allowe	ed ↑		ies if Installed ≤ Allowed	<u> </u>
Allowed Lighting Power		Allowe	ed Lighting Power	T ,
Conditioned Spaces (from LTG	3-3C or PERF-1)	Uncon	ditioned Spaces (from LTG-3C)	
	Occupancy Permit is granted for	a newly const	tructed building or space or when ever	
The LTG-2A form is not consid checked and/or filled and signe certifies plans, specifications, ir §10-103(b) of Title 24 Part 6. T final occupancy. A copy of the	dered a complete form and is not to ed. In addition, a Certificate of Ac- enstallation certificates, and operat The field inspector must receive th	o be accepted ceptance form ing and maint e properly fille	neeting the Acceptance Requirements. It by the enforcement agency unless the shall be submitted to the enforcement and information meet the requirement of out and signed forms before the builtonly. In must be provided to the owner the sum of the forms before the built of the forms before the f	ne boxes are ent agency that nents of ilding can receive
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Building total number of pages:

. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.

. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

 EnergyPro 5.1 by EnergySoft
 User Number: 6423
 RunCode: 2011-09-01T10:32:33
 ID: 11-243
 Page 2 of 7

Project Name	CONTROLS CREDI			(Part 1		L Dat
Marwuaha Gr	•					9
	JSTMENT FACTORS (PAF) F				and Construction	_
A Separate PAI schedule are of	F Worksheet Must Be Filled Out nlv for:	tor Conditioned an	ia Unconditione	ed Spaces. Con	itrol Credits list	ied
	IONED SPACES		UNCONDITION	ONED SPACES	;	
Α	В	С	D	E	F	Γ
Room # Zone ID Areas	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Watts of Control Lighting	Power Adjustments Factor ²	
Lobby 1	Occ Sensor - Multi-Level	F3	835	210	0.20	Γ
Lobby 1	Occ Sensor - Multi-Level	F4	835	432	0.20	Γ
Lobby 1	Occ Sensor - Multi-Level	F2	835	300	0.20	Г
Lobby 1	Occ Sensor - Multi-Level	F5	835	135	0.20	Γ
Lobby 2	Occ Sensor - Multi-Level	F3	835	385	0.20	Γ
Lobby 2	Occ Sensor - Multi-Level	F4	835	432	0.20	Γ
Rest Room 1	Occ Sensor - Multi-Level	F3	465	350	0.20	Г
Rest Room 1	Occ Sensor - Multi-Level	F10	465	240	0.20	Γ
Rest Room 2	Occ Sensor - Multi-Level	F3	465	350	0.20	Γ
Rest Room 2	Occ Sensor - Multi-Level	F10	465	240	0.20	Г
Stairwell	Occ Sensor - Multi-Level	F2	325	240	0.20	Γ
Stairwell	Occ Sensor - Multi-Level	F1	325	56	0.20	Γ
Training Room	Occ Sensor - Multi-Level	F3	1,795	630	0.20	Г
Training Room	Occ Sensor - Multi-Level	F6	1,795	2,940	0.20	Γ
Break Room	Occ Sensor - Multi-Level	F3	550	420	0.20	Γ
Break Room	Occ Sensor - Multi-Level	F4	550	216	0.20	Γ
Break Room	Occ Sensor - Multi-Level	F7	550	230	0.20	Γ
Conference Room	Occ Sensor - Multi-Level	F3	420	210	0.20	Γ
Conference Room	Occ Sensor - Multi-Level	F6	420	245	0.20	Γ
Corridor	Occ Sensor - Multi-Level	F3	445	280	0.20	Ī
Open Office	Occ Sensor - Multi-Level	F7	1,205	690	0.20	Γ
Open Office	Occ Sensor - Multi-Level	F3	1,205	420	0.20	Γ
Enclosed Office	Occ Sensor - Multi-Level	F7	2,545	3,565	0.20	Г
Enclosed Office	Occ Sensor - Multi-Level	F3	2,545	70	0.20	Γ
Enclosed Office	Occ Sensor - Multi-Level	F8	2,545	198	0.20	Γ
Stairwell 2	Occ Sensor - Multi-Level	F2	313	120	0.20	Γ
Stairwell 2	Occ Sensor - Multi-Level	F1	313	56	0.20	Γ
						\vdash
						t
					PAGE TOTAL	Ĺ
Note: Conditioned and		total of non-daylight co		. · ·	Ť	\vdash
Unconditioned	Ent	er building total of all da BUII	aylight controls cre LDING TOTAL OF			╀
Space shall be separately totaled	Enter in		I-DAYLIGHT AND	DAYLIGHT CON as appropriate for	TROL CREDITS)	
	I Il be consistent with Type of Control de ent Factor taken from Table 146-C	efined in Table 146-C		S. 5145514B1	5.125 00000	_

Field Inspector's Notes or Discrepancies:

	В	С	D	E	F	G
ne ID	Lighting Control Description ¹	Plan Reference	Room Area (ft²)	Watts of Control Lighting	Power Adjustments Factor ²	Control Credit Watts (E x F)
	Occ Sensor - Multi-Level	F3	835	210	0.20	42
	Occ Sensor - Multi-Level	F4	835	432	0.20	86
	Occ Sensor - Multi-Level	F2	835	300	0.20	60
	Occ Sensor - Multi-Level	F5	835	135	0.20	2
	Occ Sensor - Multi-Level	F3	835	385	0.20	7
	Occ Sensor - Multi-Level	F4	835	432	0.20	86
1	Occ Sensor - Multi-Level	F3	465	350	0.20	70
1	Occ Sensor - Multi-Level	F10	465	240	0.20	48
2	Occ Sensor - Multi-Level	F3	465	350	0.20	70
2	Occ Sensor - Multi-Level	F10	465	240	0.20	48
	Occ Sensor - Multi-Level	F2	325	240	0.20	48
	Occ Sensor - Multi-Level	F1	325	56	0.20	1:
m	Occ Sensor - Multi-Level	F3	1,795	630	0.20	128
m	Occ Sensor - Multi-Level	F6	1,795	2,940	0.20	588
	Occ Sensor - Multi-Level	F3	550	420	0.20	84
	Occ Sensor - Multi-Level	F4	550	216	0.20	43
	Occ Sensor - Multi-Level	F7	550	230	0.20	46
Room	Occ Sensor - Multi-Level	F3	420	210	0.20	42
Room	Occ Sensor - Multi-Level	F6	420	245	0.20	4:
	Occ Sensor - Multi-Level	F3	445	280	0.20	56
	Occ Sensor - Multi-Level	F7	1,205	690	0.20	138
	Occ Sensor - Multi-Level	F3	1,205	420	0.20	84
ice	Occ Sensor - Multi-Level	F7	2,545	3,565	0.20	713
fice	Occ Sensor - Multi-Level	F3	2,545	70	0.20	14
fice	Occ Sensor - Multi-Level	F8	2,545	198	0.20	40
	Occ Sensor - Multi-Level	F2	313	120	0.20	24
	Occ Sensor - Multi-Level	F1	313	56	0.20	1:
	Т				PAGE TOTAL	2,732
ا مما	Building to	tal of non-daylight co	ntrol credit watts fo	or all pages of LTC	G-2C Page 1 of 2	
and ed	Enter	building total of all da	aylight controls cre			0
be	Enter in L		-DAYLIGHT AND	DAYLIGHT CON ^a as appropriate for	(ROL CREDITS)	2,732

9/1/2011

Inspector

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.

mpe consulting	PROFESS/ONAL CONTROL OF CONTROL O
17065 Camino San Bernardo Suite 100	SH EXP. 6 3 - 12)
San Diego, CA 92127 p: 858.673.4445	OF CALLED THE
f: 858.673.4446 www.mpeconsulting.com	II-243

A Separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances listed on this

UNCONDITIONED SPACES

INDOOR LIGHTING POWER ALLOWANCE

BUILDING CATEGORY (From §146 Table 146-E)

BUILDING CATEGORY (From §146 Table 146-F)

ALLOWED LIGHTING POWER (Chose One Method)

Marwuaha Group

page are only for:

☑ CONDITIONED SPACES
COMPLETE BUILDING METHOD

AREA CATEGORY METHOD

Lobby, Main Entry

Lounge, Recreation

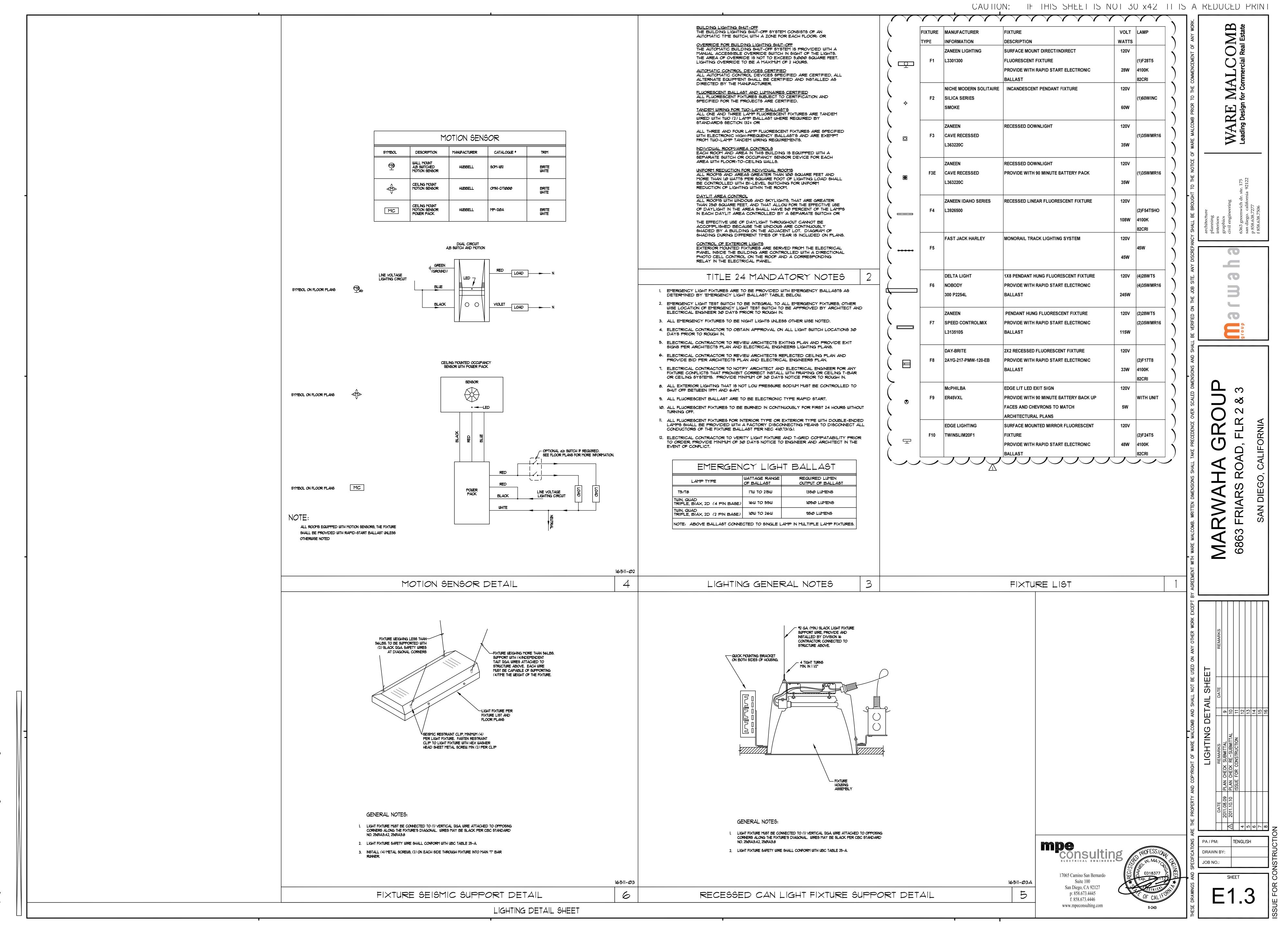
Office > 250 sqft

Office <= 250 sqft

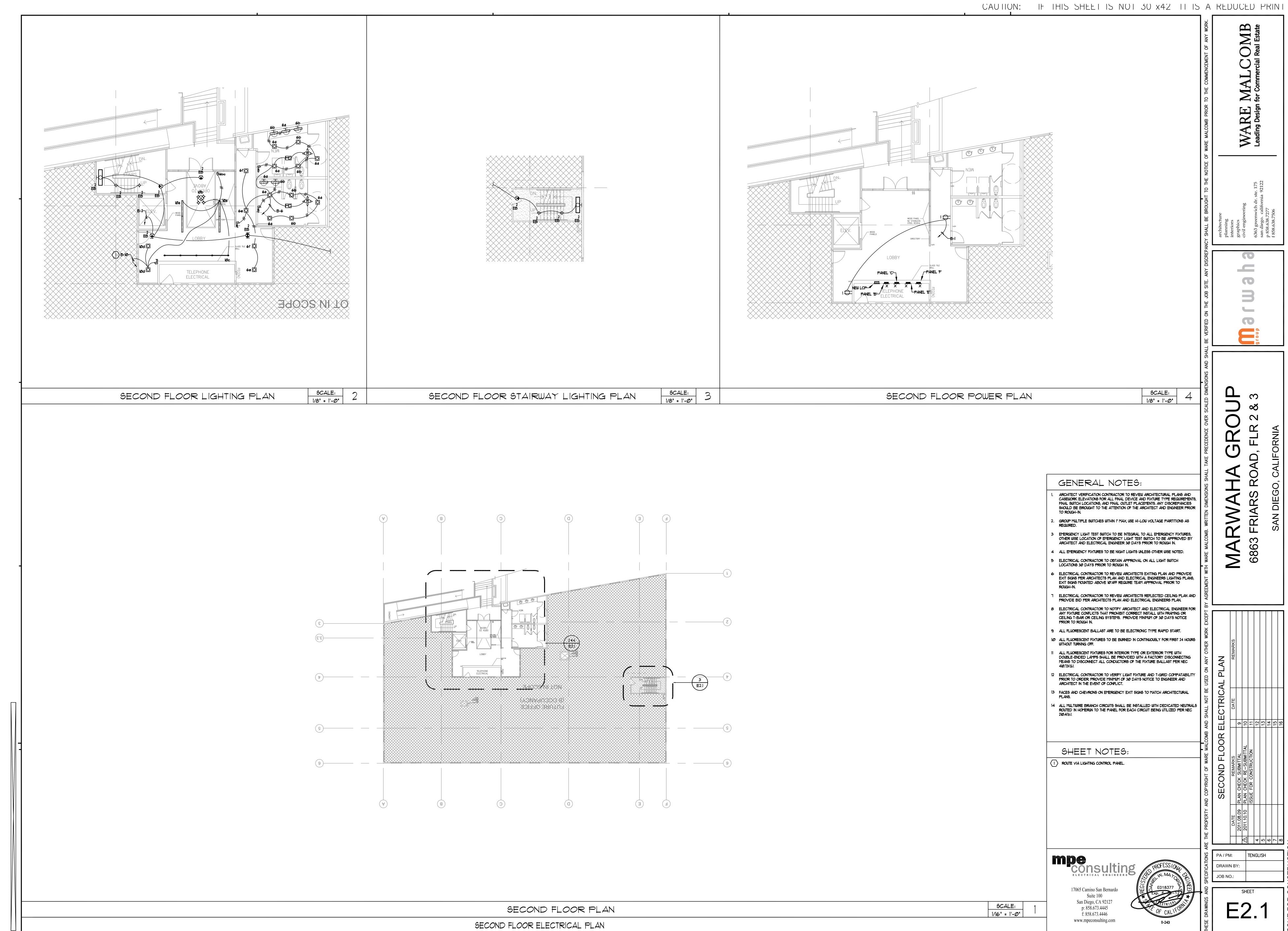
Classroom, Lecture, Training

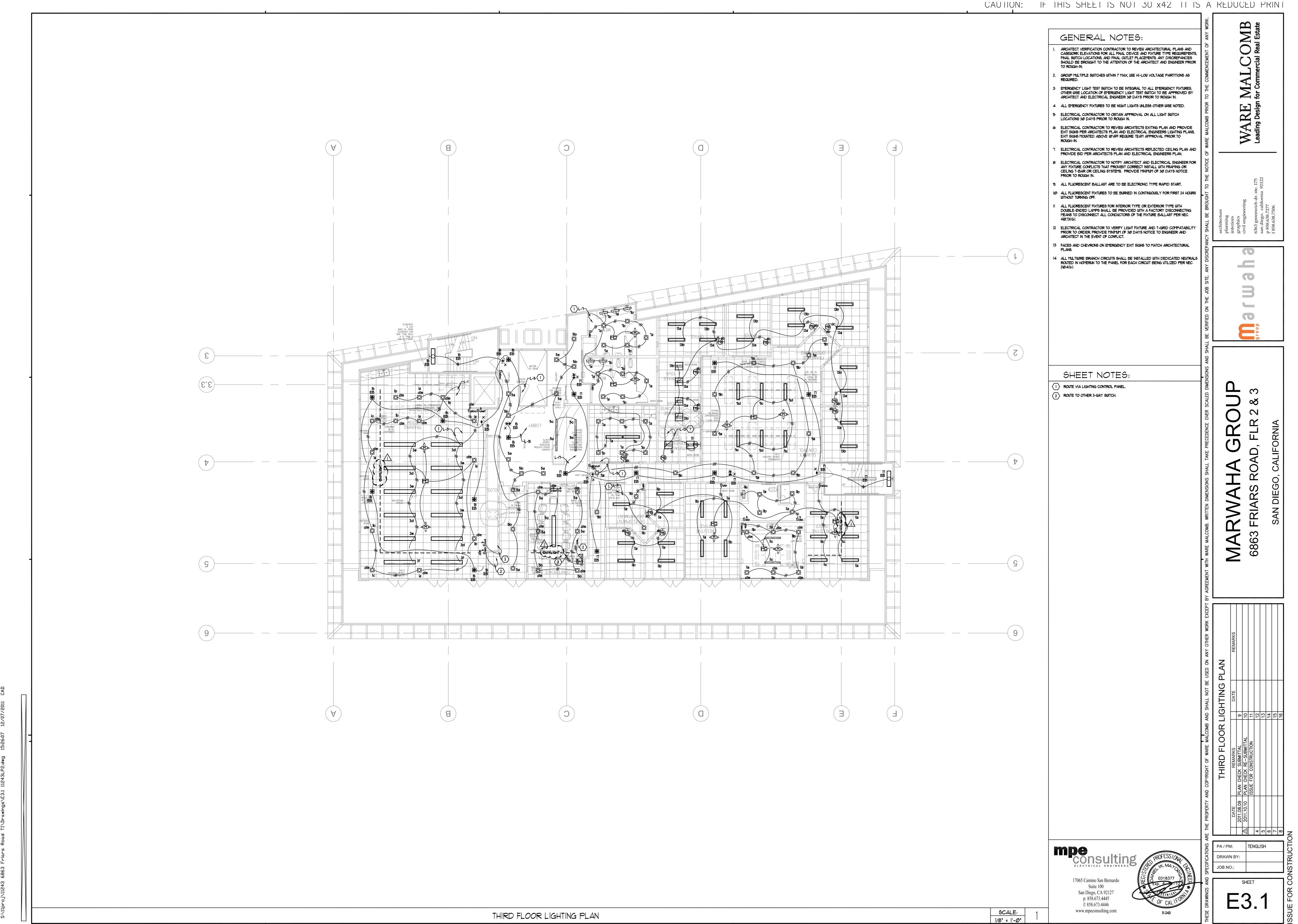
onvention/Conference/Meeting

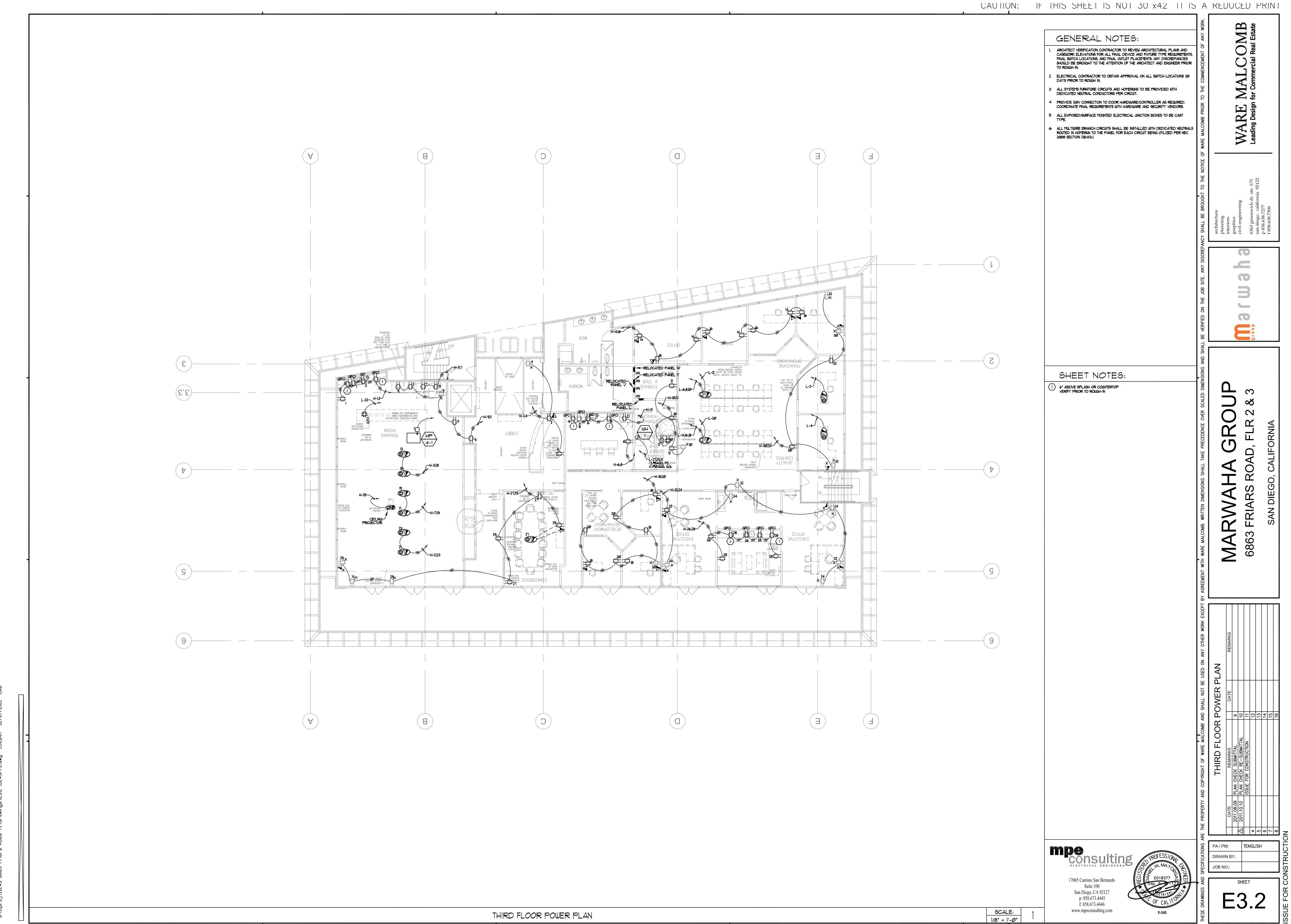
TITLE 24



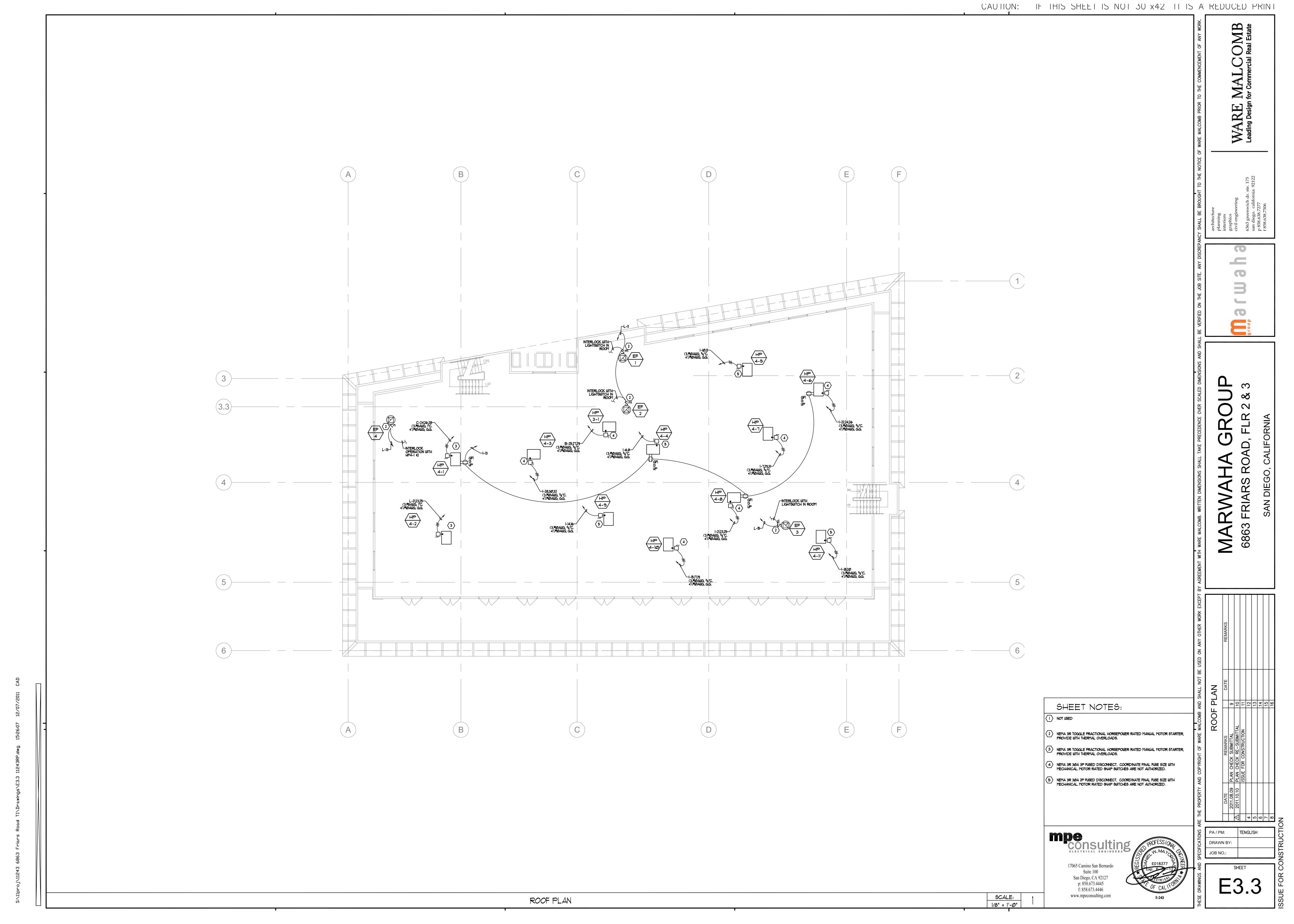
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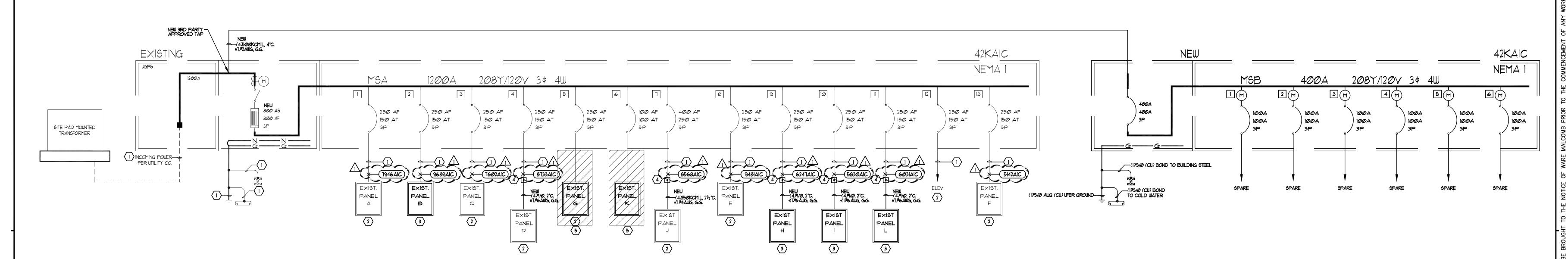






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IAIN SWITCHBOARD 'MSA'	800A 208Y/120V 3F	PH 4W	
	VA LOAD	AMP LOAD	
ANEL 'A'	15000	41.7	
ANEL 'B'	31210	86.7	
ANEL 'C'	12500	34.7	
ANEL 'D'	10000	27.8	
ANEL 'J'	35480	98.6	
ANEL 'E'	18420	51.2	
ANEL 'H'	25450	70.7	
ANEL 'I'	48683	135.2	
ANEL 'L'	51110	142.0	
LEV	10000	27.8	
ANEL 'F'	11250	31.3	
T	OTAL 269103	747.5	AMPS

BUS RATING: MAIN C.B. RATING: PANEL FEED RATING: SHUNT TRIP MAIN: LOAD BY RECEPT IP IP IP IP	MLO 150A	B 500	С	A 20	ш	\Box	L N	a l	PANEI B						MC	NEM		FLUSH NEMA 1 MAIN DIST
PANEL FEED RATING: SHUNT TRIP MAIN: LOAD BY RECEPT IP IP IP	150A NO A 500		С		ш	\Box	L N	Л										
SHUNT TRIP MAIN: LOAD BY RECEPT IP IP IP	NO A 500		С		ш	\Box	L N	Л	В	_						FEED S	OURCE:	MAIN DIST
LOAD BY RECEPT IP IP IP	A 500		С		ш	\Box	L N	Л		_								*********
BY RECEPT IP IP IP	500		С		ш	\Box	L N	л			_		_		ISOL	ATED G	ND BUS:	NO
IP IP IP		500		20	l ı l	1 1		_		1	мі	ı R	P	А	A	В	С	LOAD
IP IP IP	500	500			-	2		1	A	2	\perp	Ш	1	15	500			EXIT
IP IP	500			20	1	Ш		3	- B -	4			1	15		500		EXIT
IP IP	500		500	20	1	Ш	\perp	5	C	6	\perp	Ш	1 2	20			1200	BATH 3RD FLR
IP.		-		20	1	Ш	\perp	7	A	8	\perp	Ш	1 2	20	1425			BATH 4TH FLR
		500		20	1			9	- B -	10			1 2	20		1685		3RD FLR LOBBY LTG
(P			500	20	1			11	C	12			1 :	20			1458	3RD FLR HALL LTG
	500			20	1			13	A	14			1 2	20	1250			3RD FLR HALL DIF
L RECEPT		300		20	1			15	- B -	16			1 :	20		700		4TH FLR HALL DIF
TING LOAD			500	20	1			17	C	18			1 2	20			550	LOBBY FLOOR
r cubicle	500			20	1			19	A	20			1 :	20	550			TELCO RM
Œ								21	- B -	22			1 2	20		550		TELCO SWITCH
TING LOAD			500	20	1			23	C	24			2 :	30			2500	WATER HEATER
.1	1100			25	3		1	25	A	26			-	-	2500			
		1100		_	_	2	-	- 27	- B -	28			1 2	20		500		COMP RECEPT
			1100		_,		Ι.	- 29	C	30			1 :	20			500	COMP RECEPT
	3100	2400	3100												6225	3935	6208	
NOTES:							TO	rals	:				s	UBT	OTAL=	24968	VA	•
EXISTING CIRUIT BREAKER, EXISTING LOAD						A - 9325 VA								ж o.	25 LCL =	6242	VA	RECEPT: 500 VA
EXISTING CIRCUIT BREAKER, NEW LOAD															RSITY=	0	VA	LTG: 0 VA
NEW CIRCUIT BREAKER, NEW LOAD						C - 9308 VA									OTAL=	31210	VA	MOTOR/MISC: 3300 VA
		7	THROU	GH F	EEI	D LC	OAD):	0	VA						87	AMPS	
TI TI	NG CIRUIT BREAKE	: NG CIRUIT BREAKER, EXISTII NG CIRCUIT BREAKER, NEW I	: NG CIRUIT BREAKER, EXISTING LOAD NG CIRCUIT BREAKER, NEW LOAD IRCUIT BREAKER, NEW LOAD	: NG CIRUIT BREAKER, EXISTING LOAD NG CIRCUIT BREAKER, NEW LOAD IRCUIT BREAKER, NEW LOAD	: PHA ING CIRUIT BREAKER, EXISTING LOAD ING CIRCUIT BREAKER, NEW LOAD IRCUIT BREAKER, NEW LOAD	: PHASE: NG CIRUIT BREAKER, EXISTING LOAD NG CIRCUIT BREAKER, NEW LOAD IRCUIT BREAKER, NEW LOAD	: PHASE SUB ING CIRUIT BREAKER, EXISTING LOAD ING CIRCUIT BREAKER, NEW LOAD INCUIT BREAKER, NEW LOAD	: PHASE SUBTOON ING CIRCUIT BREAKER, NEW LOAD INCUIT BREAKER, NEW LOAD INCUIT BREAKER, NEW LOAD INCUIT BREAKER, NEW LOAD	: PHASE SUBTOTALS NG CIRUIT BREAKER, EXISTING LOAD A - NG CIRCUIT BREAKER, NEW LOAD B -	1100 29 C 3100 2400 3100 : PHASE SUBTOTALS: NG CIRUIT BREAKER, EXISTING LOAD A - 9325 NG CIRCUIT BREAKER, NEW LOAD B - 6335 IRCUIT BREAKER, NEW LOAD C - 9308	1100 29 C 30 3100 2400 3100 : PHASE SUBTOTALS: NG CIRUIT BREAKER, EXISTING LOAD A - 9325 VA NG CIRCUIT BREAKER, NEW LOAD B - 6335 VA IRCUIT BREAKER, NEW LOAD C - 9308 VA	1100 29 C 30 3100 2400 3100 : PHASE SUBTOTALS: NG CIRUIT BREAKER, EXISTING LOAD A - 9325 VA NG CIRCUIT BREAKER, NEW LOAD B - 6335 VA RICUIT BREAKER, NEW LOAD C - 9308 VA	1100 29 C 30 3100 2400 3100 : PHASE SUBTOTALS: NG CIRUIT BREAKER, EXISTING LOAD A - 9325 VA NG CIRCUIT BREAKER, NEW LOAD B - 6335 VA RECEPTION OF THE PROPERTY O	1100 29 C 30 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1100 29 C 30 1 20 3100 2400 3100 : PHASE SUBTOTALS: SUBT NG CIRUIT BREAKER, EXISTING LOAD A - 9325 VA X 0 NG CIRCUIT BREAKER, NEW LOAD B - 6335 VA RECEPT DIVE IRCUIT BREAKER, NEW LOAD C - 9308 VA T	1100	1100 29 - C 30 1 20 3100 2400 3100 E PHASE SUBTOTALS: SUBTOTAL = 24968 NG CIRUIT BREAKER, EXISTING LOAD A - 9325 VA NG CIRCUIT BREAKER, NEW LOAD B - 6335 VA RECEPT DIVERSITY = 0 IRCUIT BREAKER, NEW LOAD C - 9308 VA TOTAL = 31210	1100 29 C 30 1 20 500 3100 2400 3100 PHASE SUBTOTALS: SUBTOTAL= 24968 VA NG CIRUIT BREAKER, EXISTING LOAD A - 9325 VA X 0.25LCL= 6242 VA NG CIRCUIT BREAKER, NEW LOAD B - 6335 VA RECEPT DIVERSITY= 0 VA IRCUIT BREAKER, NEW LOAD C - 9308 VA TOTAL= 31210 VA

208Y/120V 3PH 4W

PANEL

5 - - C 6

17 - - C 18

C - 12996 VA

THROUGH FEED LOAD: 0 VA

AIC RATING: 10KAIC

NEMA TYPE: NEMA 1

FEED SOURCE: MAIN DIST

SYSTEMS FURN

LTG: 0 VA

TOTAL= 51110 VA MOTOR/MISC: 22590 VA

700 SYSTEMS FURN

MOUNTING TYPE: SURFACE

ISOLATED GND BUS: NO

M L R P A A B C LOAD
2 1 20 700 SYSTEMS FURN

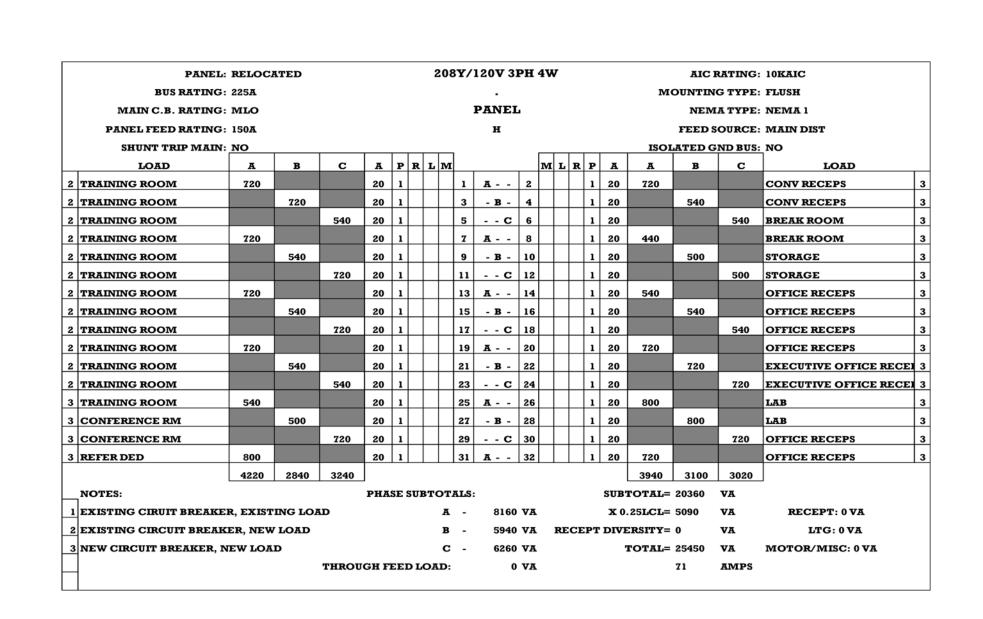
700

6265 6265 5565

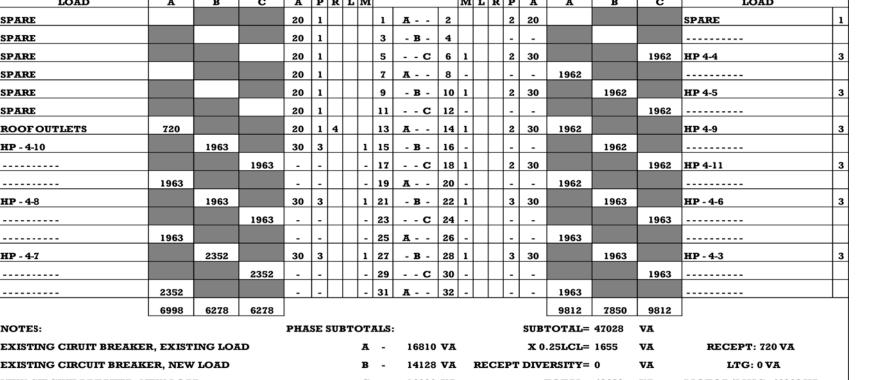
142 AMPS

B - 13946 VA RECEPT DIVERSITY= 0 VA

| 700 | SYSTEMS FURN | | 3 | 20 | 700 | | SYSTEMS FURN | | - | | 700 | | |



	PANEL:	RELOCA	ITED					20	87	Y/1	20V 31	РΗ	4W	7				AIC	RATING:	10KAIC			
	BUS RATING:	225A															M	OUNTIN	G TYPE:	FLUSH			
	MAIN C.B. RATING:		PANEL													NEM	IA TYPE:	: NEMA 1					
PANEL FEED RATING: 150A					I													FEED SOURCE: MAIN DIST					
	SHUNT TRIP MAIN:	NO				_	_		_						_		ISOI	ATED	ND BUS:	NO			
	LOAD	A	В	С	A	P	R	L N	νī				м	L F	P	A	A	В	С	LOAD	_		
1	SPARE				20	1			\perp	1	A	2			2	20				SPARE	1		
1	SPARE				20	1			\perp	3	-В-	4			<u> -</u>	-							
ı	SPARE				20	1		Ш	\perp	5	C	6	1		2	30			1962	HP 4-4			
ı	SPARE				20	1			\perp	7	A	8	_		<u> </u>	-	1962						
ı	SPARE				20	1			\perp	9	-В-	10	1		2	30		1962		HP 4-5			
1	SPARE				20	1			;	11	C	12	_		-	-			1962				
2	ROOF OUTLETS	720			20	1	4		;	13	A	14	1		2	30	1962			HP 4-9			
3	HP - 4-10		1963		30	3			1	15	- B -	16	-		-	-		1962					
				1963	_	-			- 1	17	C	18	1		2	30			1962	HP 4-11			
		1963			_	-			- 1	19	A	20	_		-	_	1962						
3	HP - 4-8		1963		30	3			1 2	21	- B -	22	1		3	30		1963		HP - 4-6			
7				1963	_	-			- 2	23	C	24	-		-	_			1963				
		1963			_	-			- 2	25	A	26	_		-	_	1963						
3	HP - 4-7		2352		30	3			1 2	27	-В-	28	1		3	30		1963		HP - 4-3			
				2352	_	-			- 2	29	C	30	-		-	_			1963		T		
		2352			_	-			- (31	A	32	-		-	_	1963						
		6998	6278	6278													9812	7850	9812				
	NOTES:		·	·	РНА	SE	SUI	зто	TA	LS:						SUB	TOTAL=	47028	VA	_			
1	EXISTING CIRUIT BREAKEI	R, EXIST	ING LOA	ND.				1	A.		16810	VA				ж о	.25LCL=	1655	VA.	RECEPT: 720 VA			
	EXISTING CIRCUIT BREAK	-						1	В		14128	VA		REC	EP7	DIV	ERSITY=	0	VA	LTG: 0 VA			
	NEW CIRCUIT BREAKER, N								С	_	16090	VA					TOTAL=	48683	VA	MOTOR/MISC: 46308 VA			
Ī				THROU	CH F	FF	n t-					VA						136	AMPS				





SHEET NOTES:

 \langle 1 \rangle Existing feeder to remain, no new work.

 \langle 2 \rangle Existing Electrical Load to Remain, no New Work.

- SINGLELINE NOTES VERTICAL BUS MAY BE TAPERED TO NOT LESS THAN 1/3 THE AMPACITY RATING OF
- THE MAIN HORIZONTAL BUS. HORIZONTAL AND VERTICAL BUS SHALL BE FULL LENGTH, AND BE RATED NO LESS
- THAN THE NOTED AIC RATED VALUE. . CONTRACTOR SHALL SUBMIT SUITCHBOARD SHOP DRAWINGS TO THE SERVING

EXISTING ELECTRICAL EQUIPMENT WITH REVISED LOAD, SEE UPDATED PANEL SCHEDULES.

- UTILITY FOR APPROVAL PRIOR TO FABRICATION. SWITCHBOARD SHALL COMPLY WITH SOG4E REQUIREMENTS.
- 4. CONTRACTOR TO SUBMIT 1/4" PLAN TO ENGINEER OF PROPOSED SWITCHGEAR LAYOUT TO CONFORM WITH MANUFACTURER'S SHOP DRAWINGS. SHOP DRAWING TO
- BE SUBMITTED AND APPROVED PRIOR TO UNDERGROUND ROUGH-IN. 5. ALL FUSES SHALL BE CURRENT LIMITING CLASS RKI, TYPE LPS-RK-SP. (FAST
- ACTION 600V) 6. ALL CONDUCTORS FEEDING PANELBOARDS SHALL BE COPPER TYPE 'THUN' WITH EMT CONDUIT. BRANCH CIRCUIT AND FEEDER CABLES IN ALL SIZES SHALL HAVE 'THW', 'THHN' OR 'THWN' INSULATION WITH EMT CONDUIT. AC CABLE IS NOT ALLOWED

TO BE INSTALLED. AN EQUIPMENT GROUND CONDUCTOR SHALL BE IN ALL FLEXIBLE CONDUITS. 'XHHW' TO BE USED AT ALL EXTERIOR LOCATION PANEL

- . ALL EQUIPMENT SHOWN IS EXISTING UNLESS NOTED OTHERWISE.
- 8. ALL TERMINATION LUGS OF PANELS AND SWITCHBOARDS TO BE RATED TO ACCEPT 15 DEGREE CONDUCTORS.
- 9. ALL MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED WITH DEDICATED NEUTRALS ROUTED IN HOMERUN TO THE PANEL FOR EACH CIRCUIT BEING UTILIZED PER NEC 2008 SECTION 210.4(b).



SINGLELINE DIAGRAM

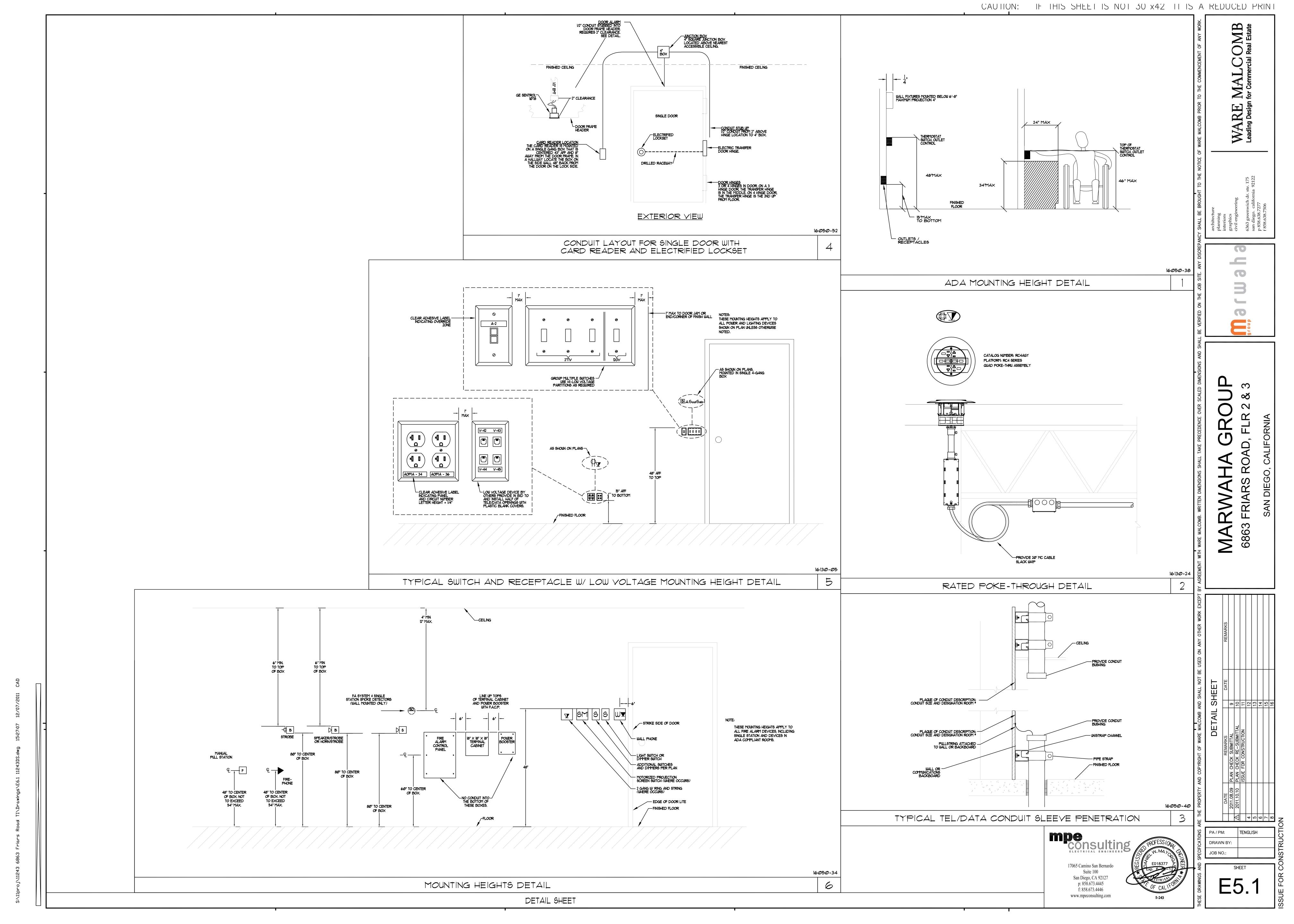
PANEL: RELOCATED **BUS RATING: 225A** MAIN C.B. RATING: MLO PANEL FEED RATING: 150A 1 OFF RECEPT 1 S.E. OFF 1 S.E OFF 1 EXEC AREA LTG 1 CONF RM LTG 3 SPARE 3 SPARE 7681 7681 7431 1 EXISTING CIRUIT BREAKER, EXISTING LOAD 2 EXISTING CIRCUIT BREAKER, NEW LOAD 3 NEW CIRCUIT BREAKER, NEW LOAD

989

WARE Leading Design

3

TENGLISH PA / PM: DRAWN BY: JOB NO.:



					P <i>P</i>	ACKAG	SED H	HEAT	PUM	IP UI	VIT S	CHE	DULE	-						
MARK	MANUFACTURER	MODEL	SERVICE	TOTAL COOLING MBH (ARI)	SENSIBLE COOLING MBH (ARI)		CFM	FAN RPM /SPEED	MOTOR H.P.	O.S.A. CFM	E.S.P. (IN. W.G.)	SEER CLG. EER CLG.		ELEC VOLTS	İ	Í	MIN. CKT. AMPS	МОСР	TOTAL OPER. WEIGHT (LBS.)	REMARKS
HP 3-1	CARRIER	50EZA030	3RD FLOOR LOBBY / CORE	29.0	21.96	26.03	840	HIGH	1/2	200	.5	13.5	7.7	208	3	60	18.9	25	340	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER
HP 4-1	CARRIER	50HCQA06	4TH FLOOR TRAINING ROOM	61.5	48.3	28.6	2000	1160	1.0	500	.6	15.0	8.20	208	3	60	28.8	40	610	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-2	CARRIER	50HCQA06	4TH FLOOR TRAINING ROOM	61.5	48.3	28.6	2000	1160	1.0	500	.6	15.0	8.20	208	3	60	28.8	40	610	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-3 HP	CARRIER	50HCQA04	4TH FLOOR LOBBY / CORE	36.7	28.2	18.4	1200	930	1.0	150	.6	15.6	8.00	208	3	60	19.2	30	495	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-4	CARRIER	50EZA024	4TH FLOOR BREAK/RESTRM	23.23	16.87	20.99	670	HIGH	1/2	150	.5	13.5	7.7	208	1	60	22.2	30	327	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-5	CARRIER	50EZA024	4TH FLOOR N. EXT. OFFICES	23.23	16.87	20.99	670	HIGH	1/2	80	.5	13.5	7.7	208	1	60	22.2	30	327	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-6	CARRIER	50HCQA04	4TH FLOOR EAST EXT. OFFICES	36.7	28.2	18.4	1200	930	1.0	80	.6	15.6	8.00	208	3	60	19.2	25	495	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-7	CARRIER	50HCQA05	4TH FLOOR INT. OFFICES	47.3	36.8	23.8	1600	1022	1.0	300	.6	15.8	8.10	208	3	60	23.0	30	580	PROVIDE FACTORY ROOF CURB 8 NEOPRENE ISOLATION, STARTER.
HP 4-8	CARRIER	50HCQA04	4TH FLOOR S. EXEC. OFFICES	36.7	28.2	18.4	1200	930	1.0	200	.6	15.6	8.00	208	3	60	19.2	30	495	PROVIDE FACTORY ROOF CURB 8 NEOPRENE ISOLATION, STARTER.
HP 4-9	CARRIER	50EZA024	4TH FLOOR CONF. ROOM	23.23	16.87	20.99	670	HIGH	1/2	210	.5	13.5	7.7	208	1	60	22.2	30	327	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-10	CARRIER	50HCQA04	4TH FLOOR S. OFFICES	34.9	24.4	18.4	900	817	1.0	120	.6	15.6	8.00	208	3	60	19.2	30	495	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.
HP 4-11	CARRIER	50EZA024	4TH FLOOR SE EXEC. OFFICE	23.23	16.87	20.99	670	HIGH	1/2	200	.5	13.5	7.7	208	1	60	22.2	30	327	PROVIDE FACTORY ROOF CURB & NEOPRENE ISOLATION, STARTER.

	EXHAUST FAN SCHEDULE												
MARK	MANUFACTURER	MODEL	TYPE	AREA SERVED	CFM	E.S.P. (IN. W.G.)	FAN RPM	HP	ELEC VOLTS			OPER. WEIGHT (LBS.)	REMARKS
EF 1	соок	ACEB-150C3B	ROOF	CORE RESTROOMS 3RD & 4TH FLOORS	1650	.5	1035	1/4	120	1	60	70	PROVIDE FACTORY ROOF CURB & BACKDRAFT DAMPER. CONTROL WITH WALL SWITCH
EF 2	соок	ACEB-60C2B	ROOF	BREAK RM / JAN. RM. 4TH FLOOR	200	.250	1350	1/6	120	1	60	30	PROVIDE FACTORY ROOF CURB & BACKDRAFT DAMPER. CONTROL WITH WALL SWITCH
EF 3	соок	ACEB-70C2B	ROOF	EXECUTIVE RESTRM 4TH FLOOR	300	.250	1670	1/6	120	1	60	30	PROVIDE FACTORY ROOF CURB & BACKDRAFT DAMPER. CONTROL WITH WALL SWITCH
EF 4	соок	ACEB-100C2B	ROOF	TRAINING ROOM 4TH FLOOR	600	.250	1340	1/6	120	1	60	30	PROVIDE FACTORY ROOF CURB & BACKDRAFT DAMPER. INTERLOCK OPERATION W/ HP4-1 & 2

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENER			ENV-10
Project Name: 6863 Friars Road	IGT CHECKLIST	Date: 8/5/11	(Page 4 of 4) Climate Zone: 7
Documentation Author's Declarat	ion Statement		
I certify that this Certificate of Cor	mpliance documentation is a Signatur		
Name: Gerald Marino	Signatu		
Company: MDC Inc.		Date: 8/5/	11
7757 Eagle Ridge Dr.		If Applicabl CEA # CEPE #	e:
City/State/Zip:San Diego, Ca 92119)	Phone: 858	3-705-2796
 Principal Designer's Declaration S I am eligible under Division 3 of the Compliance identificate of Compliance identificate of Compliance identificate and 6 of the Compliance identificate identification in the design features represented on this design on the other applicable enforcement agency for approval or in the complex in the	he California Business and P entifies the envelope features California Code of Regulation this Certificate of Complian compliance forms, workshe	and performance specific ons. nce are consistent with the ets, calculations, plans and	ations required for compliance information provided to docume
Name:	Signatu		
Company:		Date:	
Address:		License #	
City/State/Zip:		Phone:	
Indicate location on building plans of Mand INSTRUCTIONS TO APPLICANT ENV For detailed instructions on the use of this and a Manual. ENV-1C Certificate of Compli	VELOPE COMPLIANCE all Energy Efficiency Standards	& WORKSHEETS (check compliance forms, please reportional on plans.) Worksheets (check compliance forms, please reportional on plans)	
ENV-2C Use with the Envelop ENV-3C Use with the Overall Use when minimum		rge enclosed spaces are rec	
ENV-2C Use with the Envelop ENV-3C Use with the Overall	S.		
ENV-2C Use with the Envelop ENV-3C Use with the Overall Use when minimum to the Envelop ENV-4C Use when minimum to the Envelop 15. Optional on plans			
ENV-2C Use with the Envelop ENV-3C Use with the Overall Use when minimum to the Envelop ENV-4C Use when minimum to the Envelop 15. Optional on plans	S.		

Certify that this Certificate of Compliance documentation is accurate and complete. I certify that this Certificate of Compliance documentation is accurate and complete. I certify that this Certificate of Compliance documentation is accurate and complete. I certify that this Certificate of Compliance documentation If Applicable CEA # CEPE # Phone: 858-705-2796 Phone: 858-705-2796 Principal Mechanical Designer's Declaration Statement I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the mechanic design. This Certificate of Compliance identifies the mechanical features and performance specifications required for compliance Title 24, Parts I and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Signature:	Proje	ct Name:	CTION ENERGY CHEC	WI 191		(Part 5 of 5) MECH
I certify that this Certificate of Compliance documentation is accurate and complete. Idame: Gerald Marino Date: 8/5/11 Idapplicable CEA # Fhone: 858-705-2796 Principal Mechanical Designer's Declaration Statement I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the mechanic design. This Certificate of Compliance identifies the mechanical features and performance specifications required for compliance Title 24, Parts 1 and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Bate: 8/5/11 Bate: 8/5/11 Bate: 8/5/11 License: #M031971 Ity/State/ZipSan Diego, Ca 92119 Industry/State/ZipSan Diego, Ca 92119 Industry		6863	Friars Road			Date: 8/5/11
Signature: Date: 8/5/11	Doc	umentation	Author's Declaration St	atement		
Signature: Date: 8/5/11					n is accurate and co	omplete.
Company MDC Inc. Date: 8/5/11		The state of the s				125
Address: 7757 Eagle Ridge Dr. If Applicable CEA # CEPE # CITY/State/ZipSan Diego, Ca 92119 Phone: 858-705-2796 Principal Mechanical Designer's Declaration Statement I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the mechanic design. This Certificate of Compliance identifies the mechanical features and performance specifications required for compliance Title 24, Parts 1 and 6 of the California Code of Regulations. The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Signature: Bate: 8/5/11 Bate: 8/5/11 Bate: 8/5/11 Address: 7757 Eagle Ridge Dr. License # M031971 License # M031971 Phone: 858-705-2796 Indudatory Measures addicate location on building plans of Note Block for Mandatory Measures Bate:				· · · · · · · · · · · · · · · · · · ·		Date: 8/5/11
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ame: Gerald Marino Signature: Signature: Signature: Signature: Signature: Signature: Signature: MOC Inc. Modress: 7757 Eagle Ridge Dr. Signature: Modress: 48/5/11 Phone: 858-705-2796 Indicate location on building plans of Note Block for Mandatory Measures MECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included) Signature: MECH-1C Certificate of Compliance. Required on plans for all submittals. MECH-2C Mechanical Equipment Summary is required for all submittals. MECH-3C Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation.		1100 24, 1 21 3	and o of the Camornia Code	or Regulation	ons.	
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Ame: Gerald Marino Signature: 6.5-11 Mate: 8/5/11 Bate: 8/5/11 License #M031971 Phone: 858-705-2796 Andatory Measures Indicate location on building plans of Note Block for Mandatory Measures IECHANICAL COMPLIANCE FORMS & WORKSHEETS (check box if worksheet is included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2008 Nonreside formal Note: The Enforcement Agency may require all forms to be incorporated onto the building plans. MECH-1C Certificate of Compliance. Required on plans for all submittals. MECH-2C Mechanical Equipment Summary is required for all submittals. MECH-3C Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation.		enforcement ag	ency for approval with this bui	lding permi	kanceis, calculation t application.	is, plans and specifications submitted to the
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		1	1 and tower Consumption is f	equired whe	at for all prescriptiv	e suomittals.
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08 Nonresidential Compliance Forms August 20		Nonresidential (Compliance Forms			August 200

MECHANICAL PLAN CHECK NOTES

- 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.
- 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.
- ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
- ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 111-113, 115 & 120-129 E.E.S.
- ALL HVAC SYSTEMS SHALL MEET THE VENTILATION REQUIREMENTS PER SECTION 121 E.E.S. - 2001. 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.
- 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
- 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.
- 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

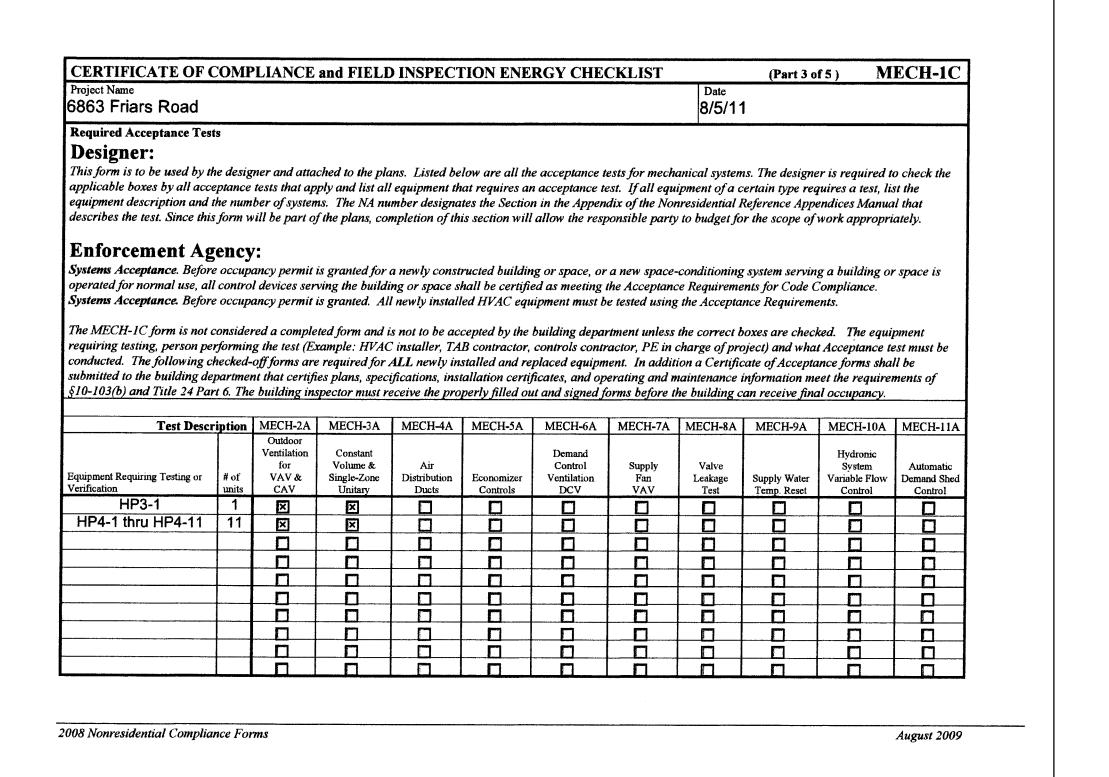
- 1. ALL BRANCH DUCTS TO HAVE BALANCE DAMPERS WITH QUADRANT
- 2. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
- 3. FLEXIBLE DUCT SHALL BE A MAXIMUM OF 8 FT. IN LENGTH. MINIMUM BEND RADIUS SHALL BE TWICE DUCT DIAMETER
- 4. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH C.M.C. LATEST EDITION, SECTIONS 601 THROUGH 604 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- 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.
- THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 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
- 11. FIRE/SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.

WITH C.M.C., SECTION 606.

12. ALL FILTERS SHALL BE CERTIFIED BY THE MANUFACTURER AND

INSTALLED IN COMPLIANCE WITH SECTIONS 408 OF THE CMC.

MECHANICAL LEGEND SYMBOL 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 \sim DUCT WORK TRANSITION T.V. RECTANGULAR DUCT WITH TURNING VANES U.C. UNDERCUT DOOR 1" THERMOSTAT & EQUIP. MARK NUMBER WALL MOUNTED ON/OFF SWITCH. SMOKE DETECTOR O.A. | OUTSIDE AIR N.O. NORMALLY OPEN N.C. NORMALLY CLOSED P.D. PRESSURE DROP COMBUSTION AIR C.A. 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 EQUIPMENT TYPE — FLOOR NUMBER **UNIT NUMBER**





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

PA / PM: DRAWN BY: JOB NO.: SHEET

TENGLISH SDG11-6064-00

FIELD INSPECTION ENERGE Project Name: 6863 Friars Road	or checklist			age 1 of 5)	MECH-1
Project Address: 6863 Friars Roa	d San Diago Co		Date:8-	5-11	Climate Zone:7
General Information	d San Diego. Ca				Conditioned Floor Area: 19500
75. 11.41					
- 1011100		Ho	tel/Motel Gu	est Room	
Reloca	table Public School Bldg. Condition	ned Spa	ces 🔲 Unce	onditioned S	oaces
Thase of Construction:	New Construction		× Alter		
Approach of Compliance:	Component Unco	nditione	d (file affidav		
Front Orientation: N, E, S, W or in Deg	rees: N		- (IIIO dilliday	10)	
HVAC SYSTEM DETAILS		FIE	D INSPECT	TON ENED	CIV CIVIT CONTROL
		1			GY CHECKLIS
Equipment	Inspection Criteria		Pass	riteria or Req	
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP3-1			Fair-	Describe Reason
Equipment Type ³ :		0			
No of Systems	Heat Pump				
Max Allowed Heating Capacity ¹	1 26.03 MBH	<u> </u>			
Minimum Heating Efficiency ¹	7.7 HSPF				
Max Allowed Cooling Capacity ¹	29.0 MBH				
Cooling Efficiency ¹	13.5 SEER	 	<u></u>		
Duct Location/ R-Value	R-8	 	<u> </u>		
When duct testing is required, submit		 			
MECH-4A & MECH-4-HERS	No				
Economizer Thermostat	No	1			П
Fan Control	Programmable				H
tan Control	Constant				
Equipment		FIEL	D INSPECT	ON ENER	GY CHECKLIST
tem or System Tags	Inspection Criteria	<u> </u>	Pass		escribe Reason ²
i.e. AC-1, RTU-1, HP-1)	HP4-1				
Equipment Type ³ :	Heat Pump				
No of Systems	1	 			
Max Allowed Heating Capacity ¹	28.6 MBH				
Minimum Heating Efficiency ¹	8.20 HSPF				
Max Allowed Cooling Capacity ¹	61.5 MBH				
Cooling Efficiency ¹	15.0 SEER				
Ouct Location/ R-Value When duct testing is required, submit	R-8				–
IECH-4A & MECH-4-HERS	No				
conomizer	No •				
hermostat	Programmable	·			
an Control	Constant				
For additional detailed discrepancy use Pac	ce efficiency and capacity is less than the Prail resubmit energy compliance to include the 2 of the Inspection Checklist Form. Comply, VAV, HP (Pkg or split), Hydronic, PTAC,	new chai	om the energy	compliance su s checked.	bmittal or from

FIELD INSPECTION ENERGY Project Name: 6863 Friars Road		Date: 8-5	ge 1 of 5)	MECH-1C Climate Zone:7
Project Address: 6863 Friars Road	d San Diego. Ca		-	Conditioned Floor
General Information	3-1-0-1			Area: 19500
Building Type: Nonresi	dential High-Rise Residential	Пт. 124.16		
		Hotel/Motel Gue		
	able Public School Bldg. 🗵 Conditions	ed Spaces Unco	nditioned S	paces
Phase of Construction:	New Construction Addition	n 🗵 Altera	tion	
Approach of Compliance:	☐ Component ☐ Uncon	litioned (file affidavi	t)	
Front Orientation: N, E, S, W or in Deg	rees: N			
HVAC SYSTEM DETAILS		FIELD INSPECT	ION ENE	RGY CHECKLIST
			iteria or Re	
Equipment	Inspection Criteria	Pass		- Describe Reason ²
Item or System Tags	HP4-2			
(i.e. AC-1, RTU-1, HP-1)				
Equipment Type ³ :	Heat Pump			
No of Systems	1 20 C M D I			
Max Allowed Heating Capacity ¹	28.6 MBH			
Minimum Heating Efficiency ¹	8.20 HSPF			
Max Allowed Cooling Capacity ¹ Cooling Efficiency ¹	61.5 MBH 15.0 SEER	<u></u>		
Duct Location/ R-Value	R-8			
When duct testing is required, submit		Ш		
MECH-4A & MECH-4-HERS	No			
Economizer	No 🗖	П		П
Thermostat	Programmable	П		
Fan Control	Constant			<u> </u>
		FIELD INSPECT	ON ENER	GY CHECKLIST
Equipment	Inspection Criteria	Pass		Describe Reason ²
Item or System Tags	HP4-3			
(i.e. AC-1, RTU-1, HP-1)				
Equipment Type ³ :	Heat Pump			
No of Systems	1			
Max Allowed Heating Capacity ¹	18.4 MBH	<u> </u>		
Minimum Heating Efficiency ¹	8.0 HSPF	<u> </u>	<u> </u>	П
Max Allowed Cooling Capacity ¹	36.7 MBH	<u> </u>	ļ	口
Cooling Efficiency ¹	15.6 SEER	<u>_</u>	 	
Duct Location/ R-Value When duct testing is required, submit	R-8			
MECH-4A & MECH-4-HERS	No			
Economizer	No		1	
l'hermostat	Programmable	<u> </u>	 	
Fan Control	Constant	П		
ine outlaing plans) the responsible party sl	nce efficiency and capacity is less than the Pro- nall resubmit energy compliance to include the age 2 of the Inspection Checklist Form. Compl	new changes. iance fails if a Fail hox		submittal or from

2008 Nonresidential Compliance Forms

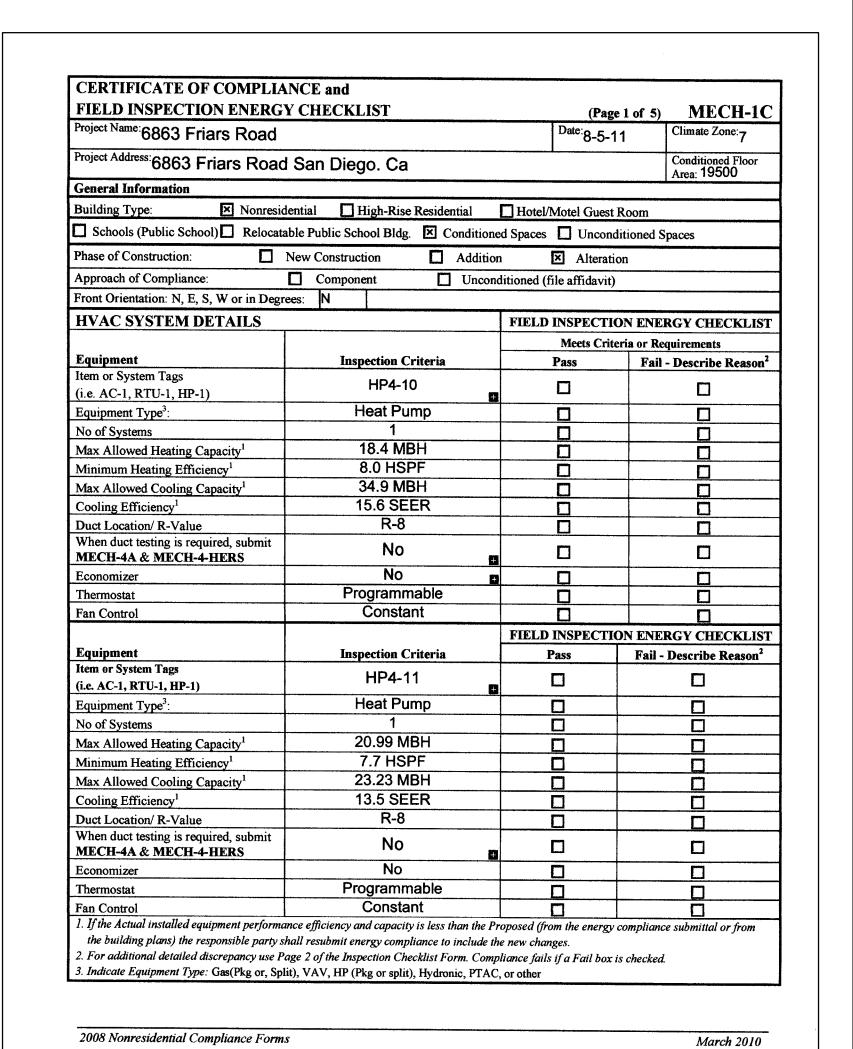
Project Name: 6863 Friars Road	GY CHECKLIST		Date:8-5	age 1 of 5	MECH-1(Climate Zone: 7
Project Address: 6863 Friars Roa	od Son Diego O	· · · · · · · · · · · · · · · · · · ·	0-3	D-11	
General Information	ad San Diego. Ca				Conditioned Floor Area: 19500
					1.1.00
Building Type: Nonres		□Но	tel/Motel Gue	est Room	
☐ Schools (Public School)☐ Reloc	atable Public School Bldg. X Condition	ned Space	ces Unco	onditioned	Spaces
Phase of Construction:	New Construction		× Alter		
Approach of Compliance:	Component Unco	onditione	d (file affiday		
Front Orientation: N, E, S, W or in De	grees: N	7747676	a (me amay	11.)	
HVAC SYSTEM DETAILS		FIE	D INCDEC	TON ENTE	ID CITY COTT
		1.125			RGY CHECKLIST
Equipment	Inspection Criteria		Pass		equirements
Item or System Tags	HP4-4			rail	- Describe Reason ²
(i.e. AC-1, RTU-1, HP-1) Equipment Type ³ :					
No of Systems	Heat Pump				
Max Allowed Heating Capacity ¹	1 20.99 MBH	_			
Minimum Heating Efficiency ¹	7.7 HSPF		<u> </u>		
Max Allowed Cooling Capacity ¹	22.23 MBH				<u>D</u>
Cooling Efficiency ¹	13.5 SEER	- 			
Duct Location/ R-Value	R-8	 			
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	3			
Economizer	No				
Thermostat	Programmable				
Fan Control	Constant				
Fauinmant		FIEL	D INSPECT	ION ENE	RGY CHECKLIST
Equipment Item or System Tags	Inspection Criteria	 	Pass		Describe Reason ²
(i.e. AC-1, RTU-1, HP-1)	HP4-5				
Equipment Type ³ :	Heat Pump		П		· ····
No of Systems	1	†		 	
Max Allowed Heating Capacity ¹	20.99 MBH		<u> </u>		
Minimum Heating Efficiency ¹	7.7 HSPF			 	Ä
Max Allowed Cooling Capacity ¹	23.23 MBH				
Cooling Efficiency ¹	13.5 SEER				
Ouct Location/ R-Value When duct testing is required, submit	R-8				
MECH-4A & MECH-4-HERS	No				
Conomizer	No			 	
hermostat	Programmable		П	<u> </u>	
an Control	Constant				
For additional detailed discrepancy use Pa	nce efficiency and capacity is less than the Pr hall resubmit energy compliance to include th age 2 of the Inspection Checklist Form. Comp tt), VAV, HP (Pkg or split), Hydronic, PTAC	e new cha			submittal or from

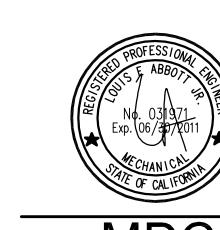
Project Name: 6863 Friars Road		Date: 8-5-	-11 Climate Zone:7
Project Address: 6863 Friars Road	d San Diego. Ca		Conditioned Floor Area: 19500
General Information			TAICA. 10000
Building Type: Nonresid	dential High-Rise Residential	☐ Hotel/Motel Gues	st Room
☐ Schools (Public School)☐ Relocat	able Public School Bldg. Condition	oned Spaces Uncor	nditioned Spaces
	New Construction		
Approach of Compliance:		onditioned (file affidavi	
Front Orientation: N, E, S, W or in Degr		multioned (the arridavi	t)
HVAC SYSTEM DETAILS	CC3. Y	THE P DIGIT OF	
IIVAC SISIEM DETAILS			ION ENERGY CHECKLIS
Equipment	Inspection Cuitaria		iteria or Requirements
Item or System Tags	Inspection Criteria	Pass	Fail - Describe Reaso
(i.e. AC-1, RTU-1, HP-1)	HP4-6		
Equipment Type ³ :	Heat Pump	П	
No of Systems	1	T A	
Max Allowed Heating Capacity ¹	18.4 MBH		
Minimum Heating Efficiency ¹	8.0 HSPF		
Max Allowed Cooling Capacity ¹	36.7 MBH		
Cooling Efficiency ¹	15.6 SEER		
Duct Location/ R-Value	R-8		
When duct testing is required, submit MECH-4A & MECH-4-HERS		+	
Economizer			
Thermostat	Programmable		
Fan Control	Constant		
		FIELD INSPECT	ION ENERGY CHECKLIS
Equipment Item or System Tags	Inspection Criteria	Pass	Fail - Describe Reason
(i.e. AC-1, RTU-1, HP-1)			
Equipment Type ³ :	Heat Pump		
No of Systems	1		
Max Allowed Heating Capacity ¹	23.8 MBH		
Minimum Heating Efficiency ¹	8.10 HSPF		
Max Allowed Cooling Capacity ¹	47.3 MBH		
Cooling Efficiency ¹	15.8 SEER		
Duct Location/ R-Value	R-8		
When duct testing is required, submit MECH-4A & MECH-4-HERS			
Economizer	No		
Thermostat	Programmable		
Fan Control	Constant		
 If the Actual installed equipment performathe building plans) the responsible party st For additional detailed discrepancy use Passes Indicate Equipment Type: Gas(Pkg or, Spl. 	nall resubmit energy compliance to include age 2 of the Inspection Checklist Form. Con	the new changes. Apliance fails if a Fail hay	

Project Name: 6863 Friars Road			Date: 8-5-	ge 1 of 5) 11	MECH Climate Zone:
Project Address: 6863 Friars Road	l San Diego. Ca				Conditioned Fl Area: 19500
General Information					Area: 19000
Building Type: X Nonresid	lential High-Rise Reside	ntial	☐ Hotel/Motel Guest	Room	
☐ Schools (Public School) ☐ Relocate					Snaces
	New Construction	Additio	· · · · · · · · · · · · · · · · · · ·		эриссэ
Approach of Compliance:	Component				
Front Orientation: N, E, S, W or in Degr		Uncon	ditioned (file affidavit))	
	ees. IV		I		*****
HVAC SYSTEM DETAILS			FIELD INSPECTI		****
To receive and and	T				equirements
Equipment Item or System Tags	Inspection Criteria		Pass	Fail	- Describe Rea
(i.e. AC-1, RTU-1, HP-1)	HP4-8	9			
Equipment Type ³ :	Heat Pump				
No of Systems	1				<u> </u>
Max Allowed Heating Capacity ¹	18.4 MBH				H
Minimum Heating Efficiency ¹	8.0 HSPF				– –
Max Allowed Cooling Capacity ¹	36.7 MBH				
Cooling Efficiency ¹	15.6 SEER				
Duct Location/ R-Value	R-8				
When duct testing is required, submit MECH-4A & MECH-4-HERS	No				
Economizer	No	0			
Thermostat	Programmable				
Fan Control	Constant				
			FIELD INSPECTI	ON ENE	RGY CHECK
Equipment	Inspection Criteria		Pass	Fail -	Describe Reas
Item or System Tags (i.e. AC-1, RTU-1, HP-1)	HP4-9	_			
Equipment Type ³ :	Heat Pump	. 0			——————————————————————————————————————
No of Systems	1			 	
Max Allowed Heating Capacity ¹	20.99 MBH				<u>L</u>
Minimum Heating Efficiency ¹	7.7 HSPF			<u> </u>	<u>L</u>
Max Allowed Cooling Capacity ¹	23.23 MBH				
Cooling Efficiency ¹	13.5 SEER	****			<u> </u>
Duct Location/ R-Value	R-8				
When duct testing is required, submit MECH-4A & MECH-4-HERS	No	Ð			
Economizer	No				
Thermostat	Programmable	· · · · · · · · · · · · · · · · · · ·			
Fan Control	Constant				
1. If the Actual installed equipment performs the building plans) the responsible party s	nce efficiency and capacity is less t hall resubmit energy compliance to	han the Pr	oposed (from the energy e new changes	complian	ce submittal or fr

March 2010

2008 Nonresidential Compliance Forms

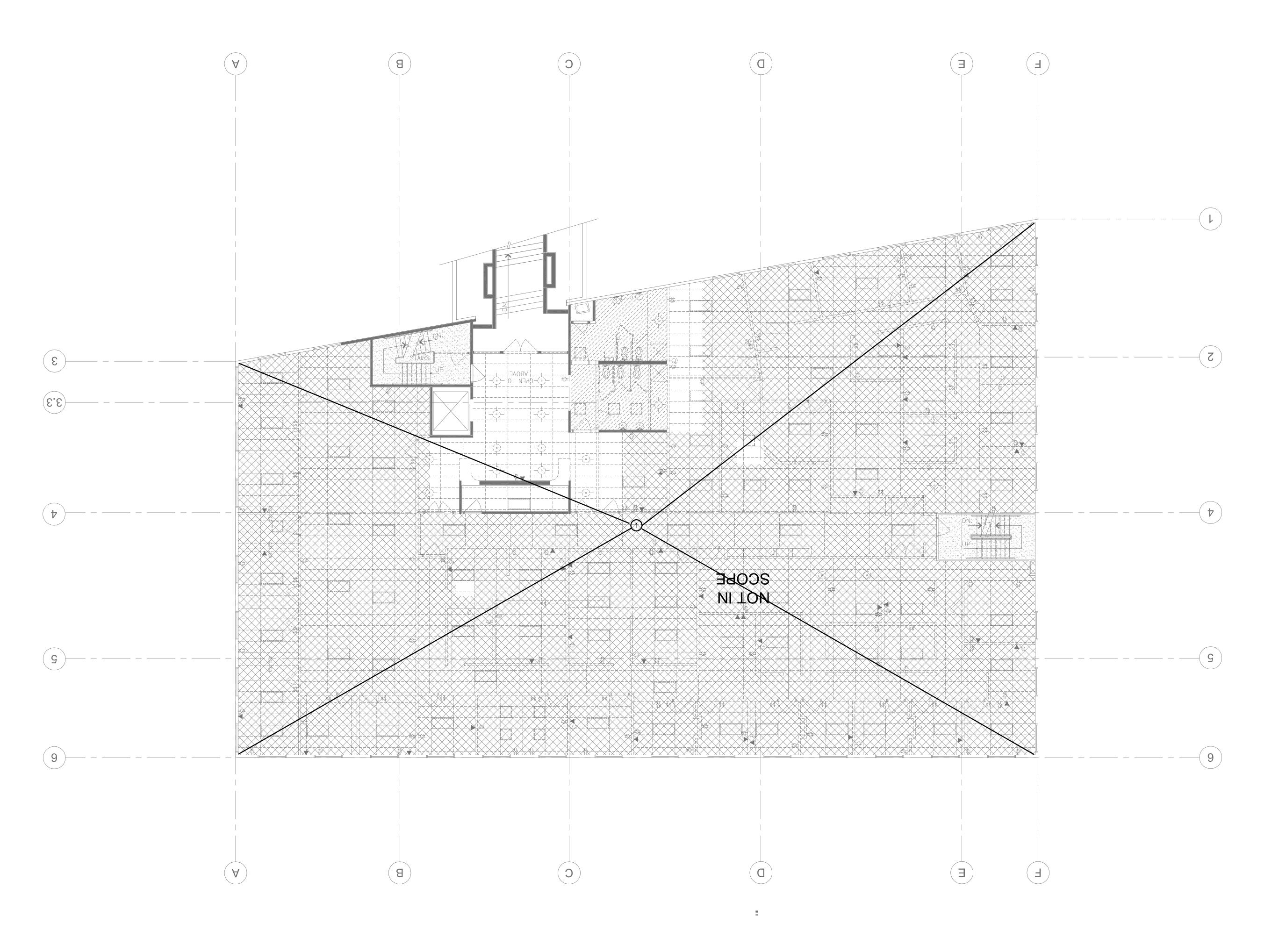




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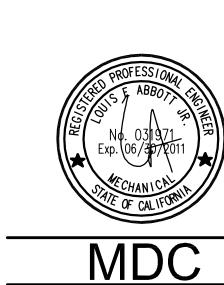
DRAWN BY: JOB NO.: SDG11-6064-00

PA / PM:



THIRD FLOOR PLAN - MECHANICAL DEMOLITION

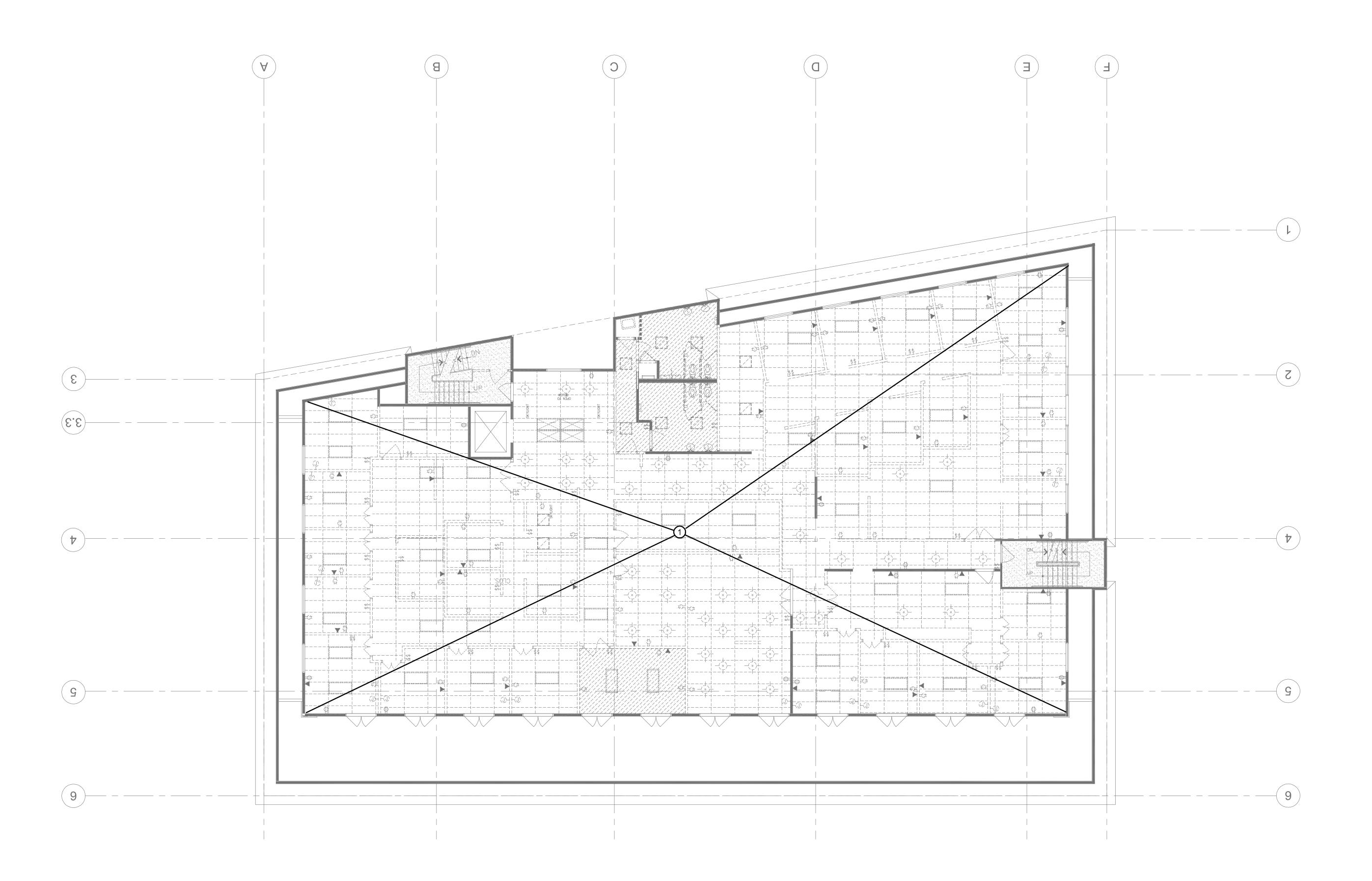
DEMOLITION NOTES



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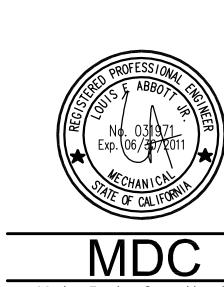
SDG11-6064-00



FOURTH FLOOR PLAN - MECHANICAL DEMOLITION SCALE: 1/8"=1'-0"

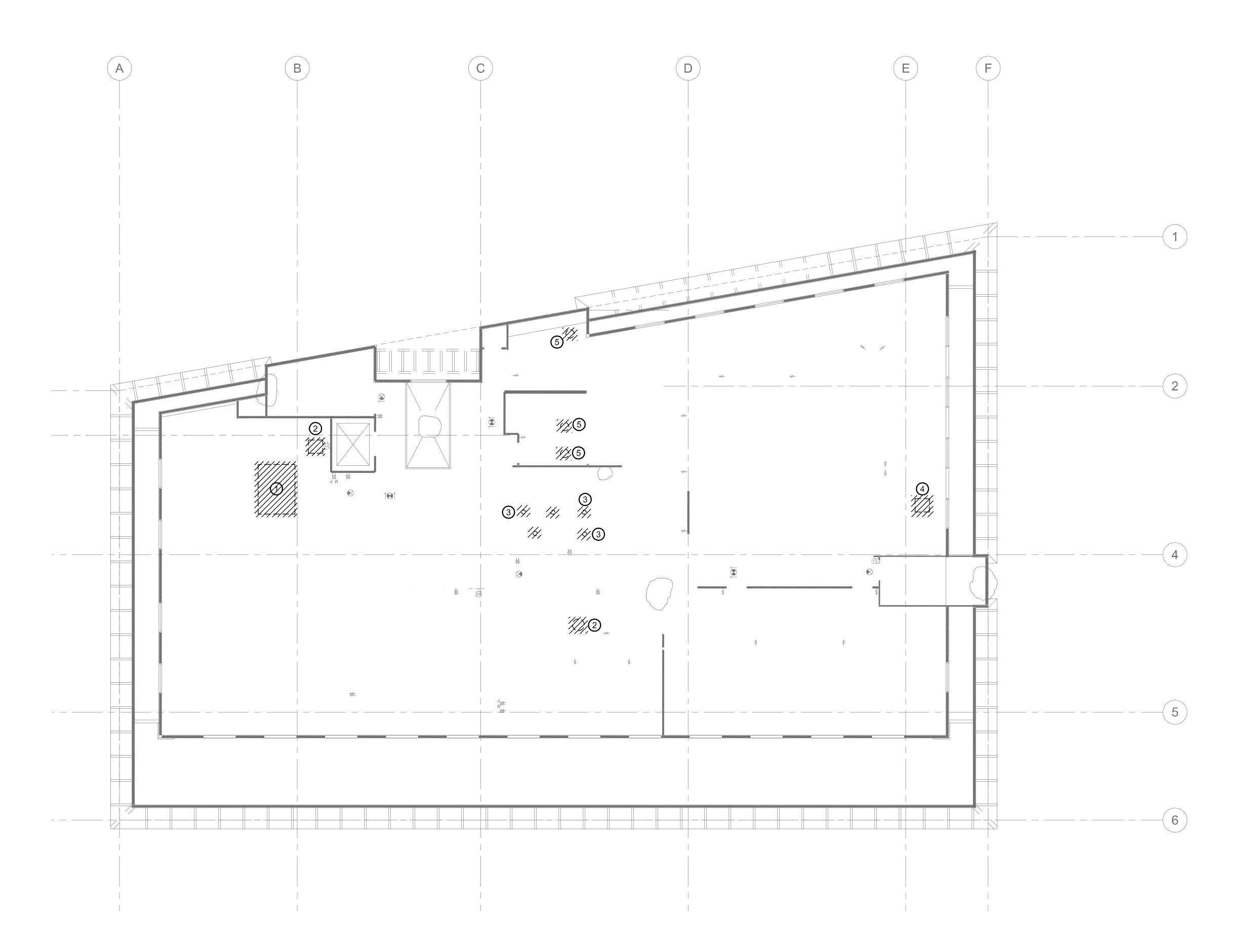
DEMOLITION NOTES

1 REMOVE ALL 4-PIPE FAN COIL UNITS, CHILLED WATER SUPPLY AND RETURN PIPING, DIFFUSERS, REGISTERS, EXHAUST FANS, SPLIT SYSTEM FAN COILS AND THERMOSTATS FOR THE ENTIRE FLOOR.



DRAWN BY:

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MECHANICAL ROOF PLAN - DEMOLITION

DEMOLITION NOTES

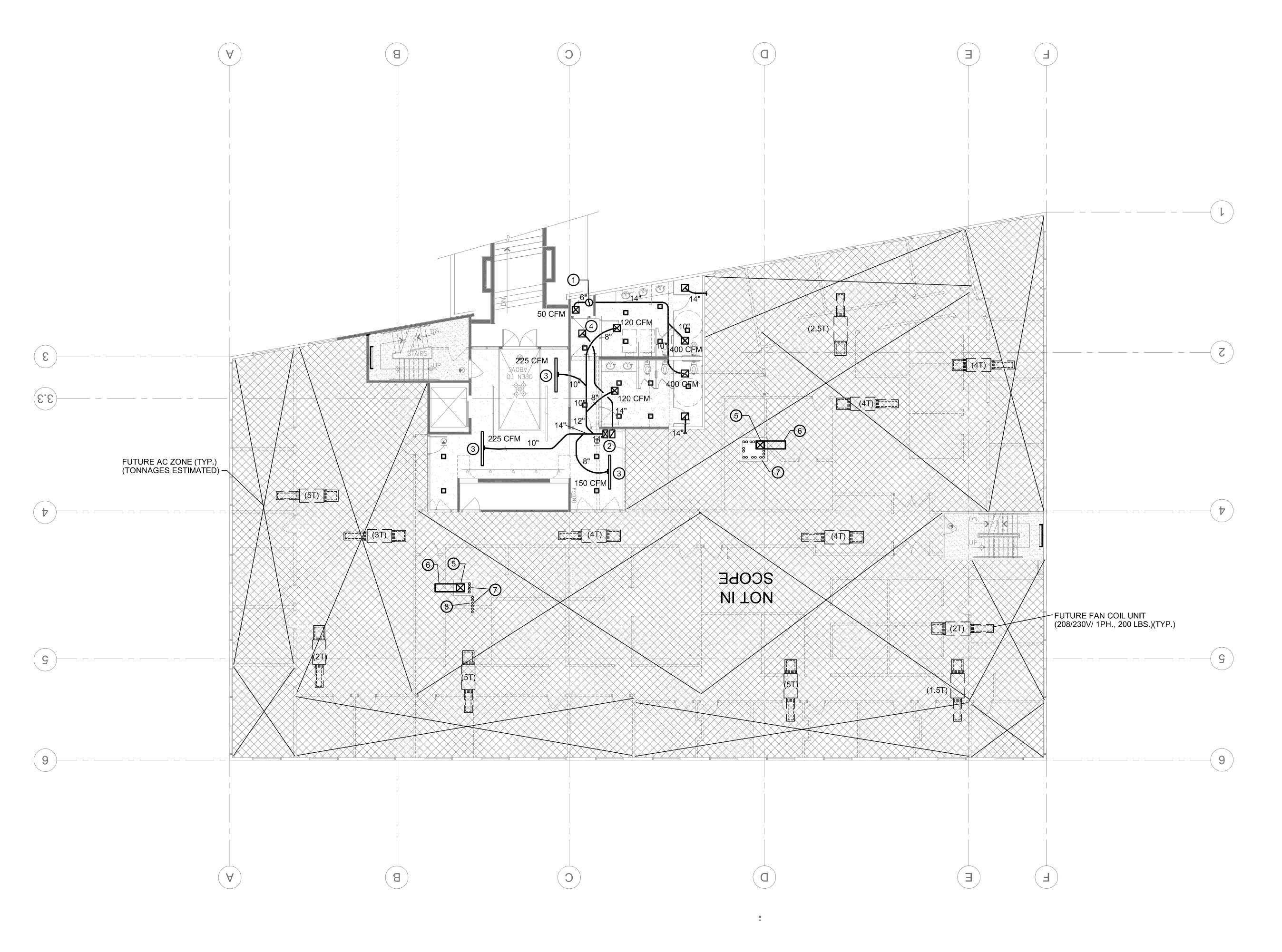
- REMOVE EXISTING 55 TON DX CHILLER / CONDENSING UNIT AND RELATED PIPING ALONG WITH 55 TON CHILLER WITHIN AT THE 1ST FLOOR & ALL CHILLED WATER PUMPS, CONTROLS AND PIPING.
- 2 REMOVE EXISTING EXHAUST FAN AND RELATED DUCTWORK. PATCH ROOF TO MATCH EXISTING.
- REMOVE EXISTING OSA INTAKE ROOF CAPS AND RELATED DUCTWORK. PATCH ROOF TO MATCH EXISTING. (TYP.)
- 4 REMOVE EXISTING CONDENSING UNIT AND RELATED FAN COIL AND REFRIGERANT PIPING.

5 REMOVE EXISTING EXHAUST ROOF CAPS AND RELATED DUCTWORK. PATCH ROOF TO MATCH EXISTING. (TYP.)



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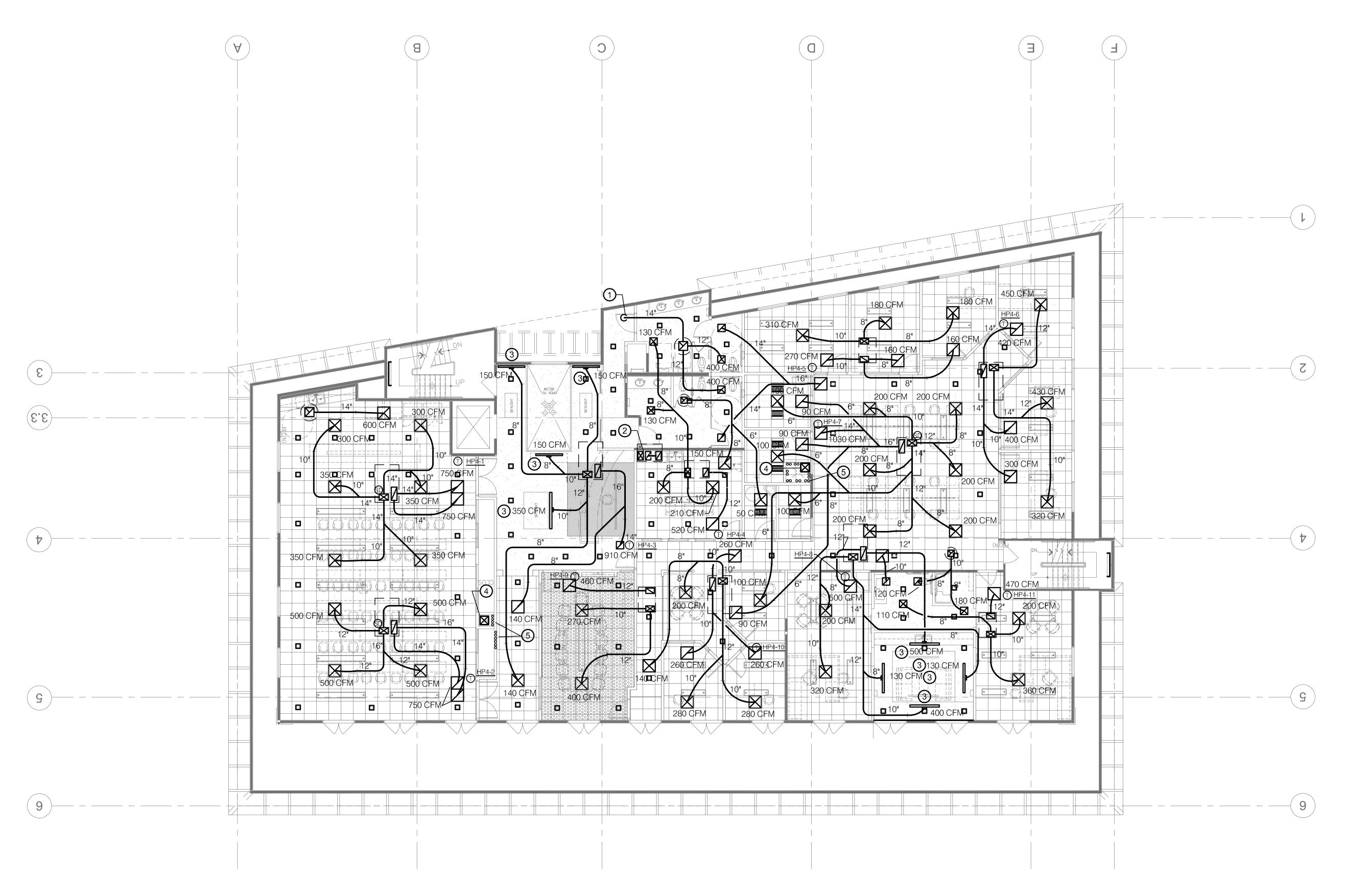
SECOND FLOOR PLAN - MECHANICAL

SHEET NOTES

- 14" EXHAUST DUCT UP IN SHAFT TO 3RD FLOOR.
- 2 LINED 14"x12" SA AND RA DUCTS UP WITHIN SHAFT TO 3RD FLOOR AND ROOF.
- (3) 6'-0" LINEAR SLOT DIFFUSER OR REGISTER BY TITUS OR KRUEGER.
- 4 TITUS "OMNI" RETURN REGISTER.
- 5 14"x14" OSA DUCT UP IN SHAFT TO 3RD FLOOR.
- 6 14"x14" OSA DUCT CAPPED FOR FUTURE CONNECTION ABOVE CEILING.
- 3 SUCTION AND LIQUID (INSULATED) REFRIGERANT LINES UP WITHIN SHAFT OR WALL. CAP ABOVE CEILING FOR FUTURE EXTENSION. (TYP.)
- 8 REFRIGERANT PIPING UP WITHIN WALL AT 3RD FLOOR. SEE M3.2.



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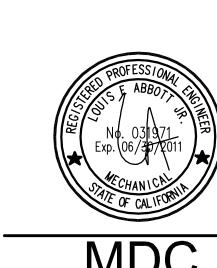
THIRD FLOOR PLAN - MECHANICAL

SHEET NOTES

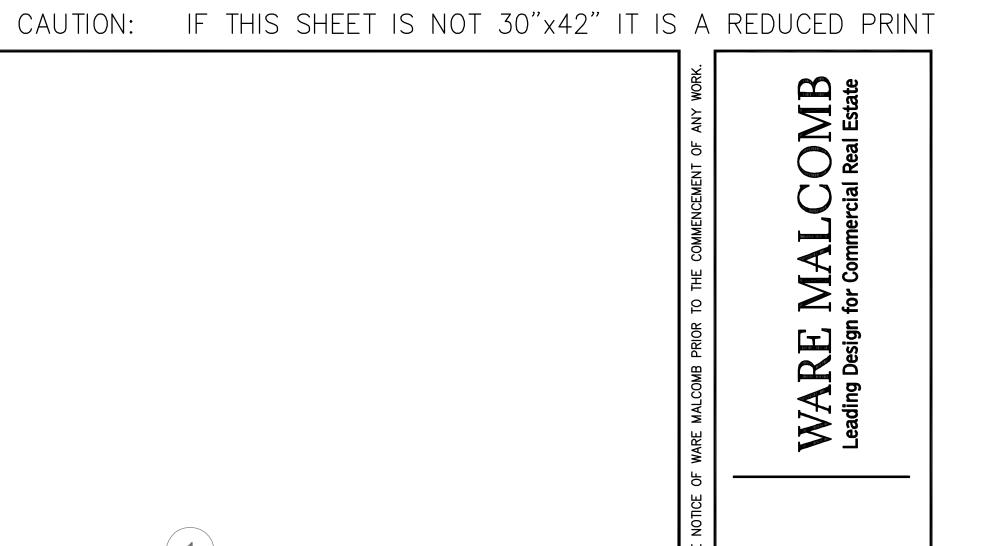
- 14" EXHAUST DUCT DN. TO 3RD FLOOR.
- 2 14"x14" SA AND RA DUCTS DOWN WITHIN SHAFT TO FIRST FLOOR
- 3 LINEAR SLOT DIFFUSER / REGISTER TITUS FLO-BAR OR APPROVED EQUAL BY KRUEGER (TYP.)
- 4 14"x14" OSA DUCT UP THRU ROOF & DOWN WITHIN SHAFT TO 2ND FLOOR
- 5 SUCTION AND LIQUID REFRIGERANT LINES UP THRU ROOF & DN. TO 2ND FLOOR. (TYP.)

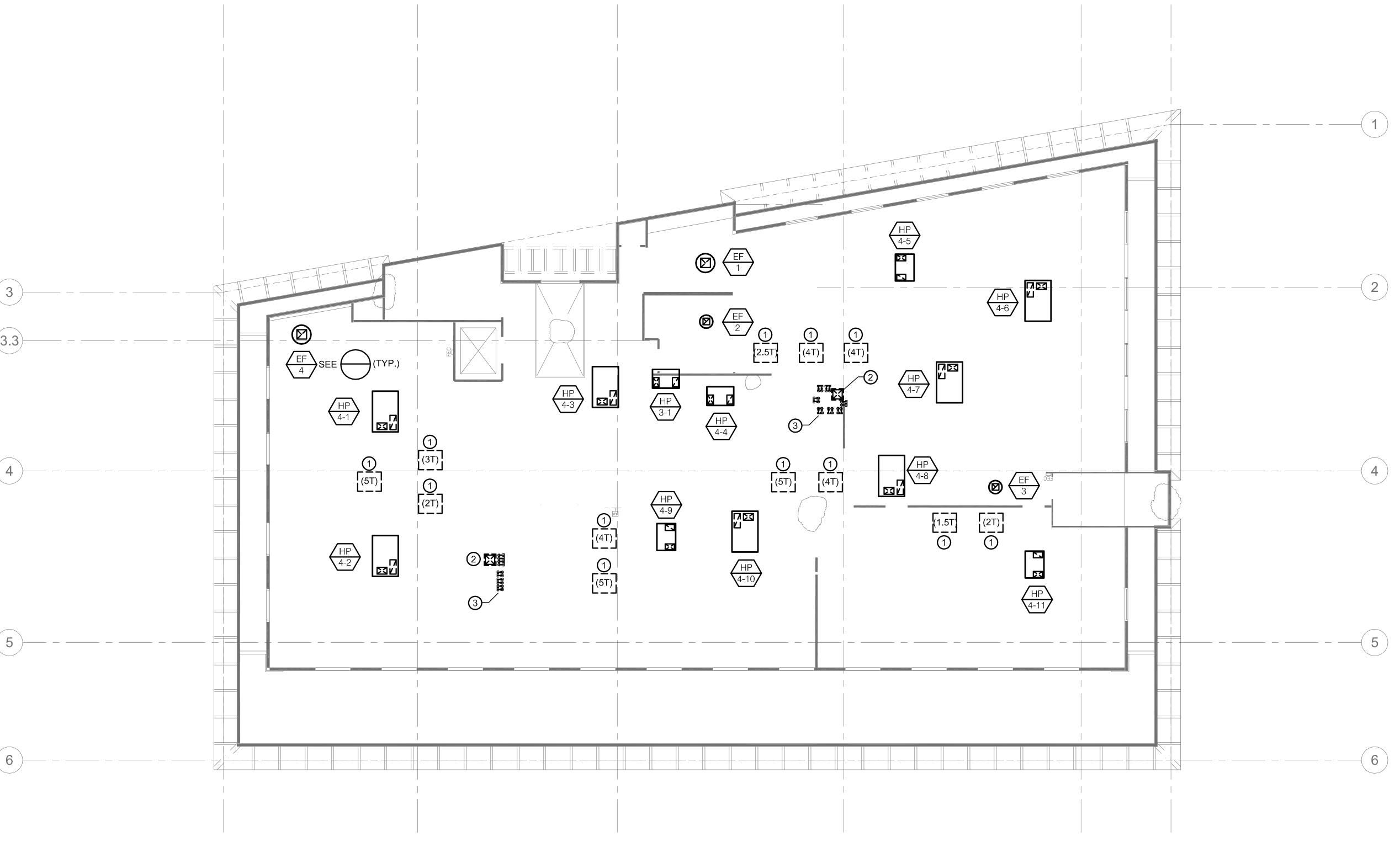
GENERAL NOTES

. DIFFUSERS AND REGISTERS SHALL BE TITUS "OMNI" WITH CENTER PLATE TO MATCH CEILING FINISH COLOR PER ARCHITECTUAL DRAWINGS.



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MECHANICAL ROOF PLAN

SHEET NOTES

- 1 FUTURE CONDENSING UNIT FOR FUTURE 2ND FLOOR TENANT. (MAX. OPERATING WEIGHT 320 LBS.)
- FUTURE OUTSIDE AIR SUPPLY AIR FAN FOR FUTURE 2ND FLOOR TENANT FAN COIL UNITS.
 PROVIDE ROOF CURB AND SHEETMETAL CAP FOR FUTURE SUPPLY FAN. (120V/ 1PH., 1/4 HP, 100 LBS)
- 3 7/8" SUCTION AND 3/8" O.D. LIQUID REFRIGERANT LINES CAPPED FOR FUTURE EXTENSION (TYP.)

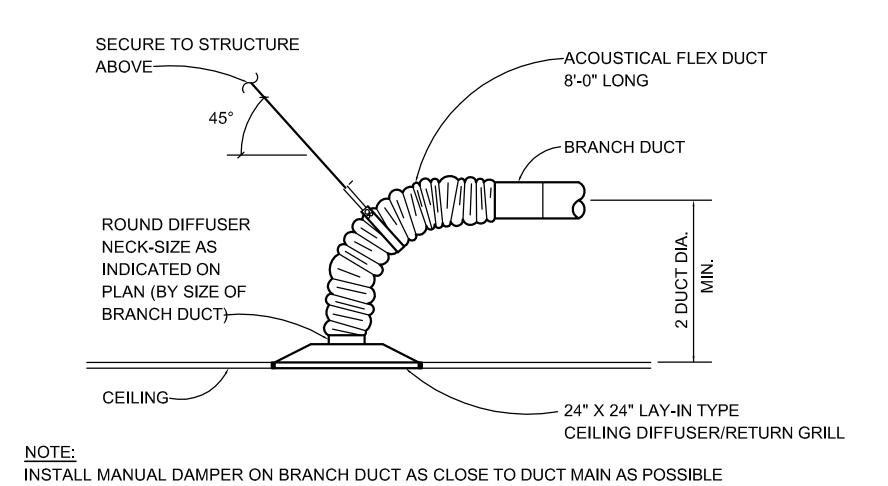
DRAWN BY: MDC Marino Design Consulting, Inc. 7757 Eagle Ridge Dr. San Diego, Ca. 92119 Phone: 858-705-2796 Fax: 619-464-5496 www.mdcmechanical.com

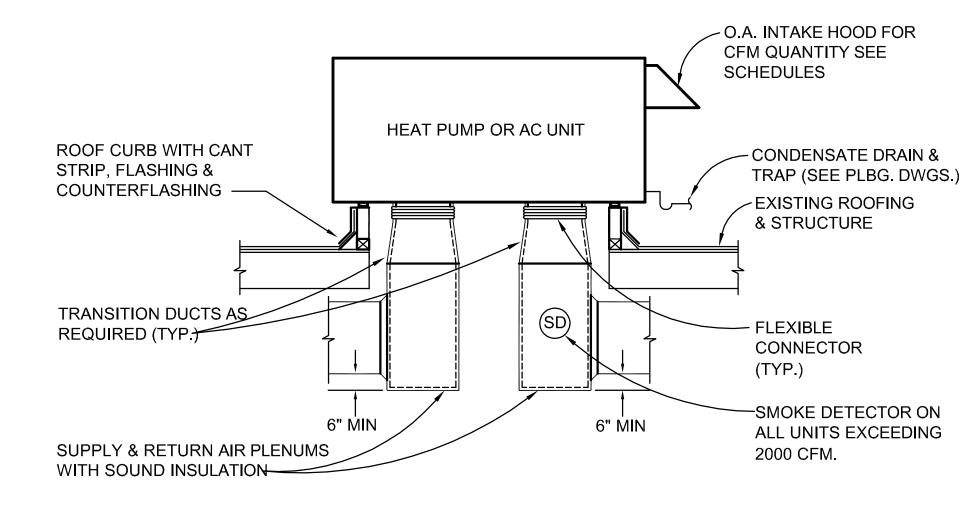
MALC (for Commercial

WARE Leading Design

EXHAUST FAN CONTROL DIAGRAM

NO SCALE



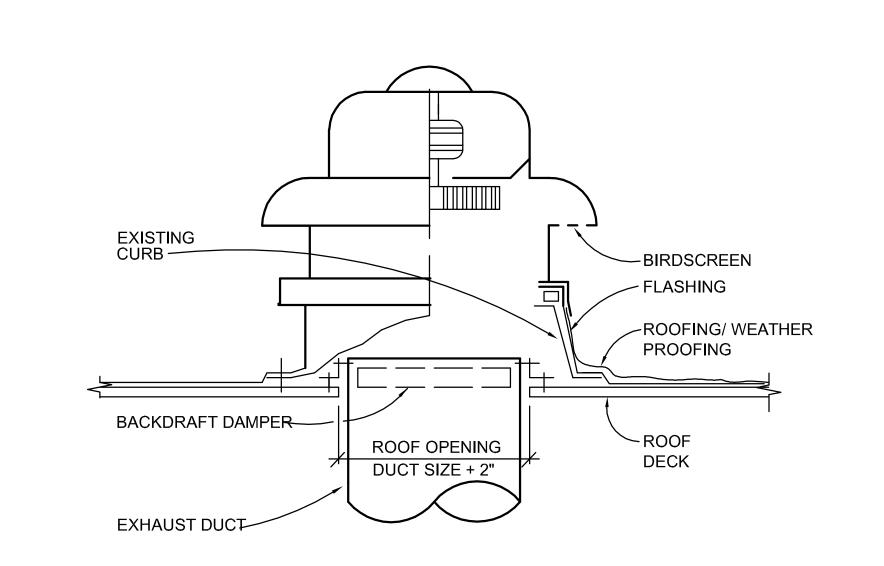


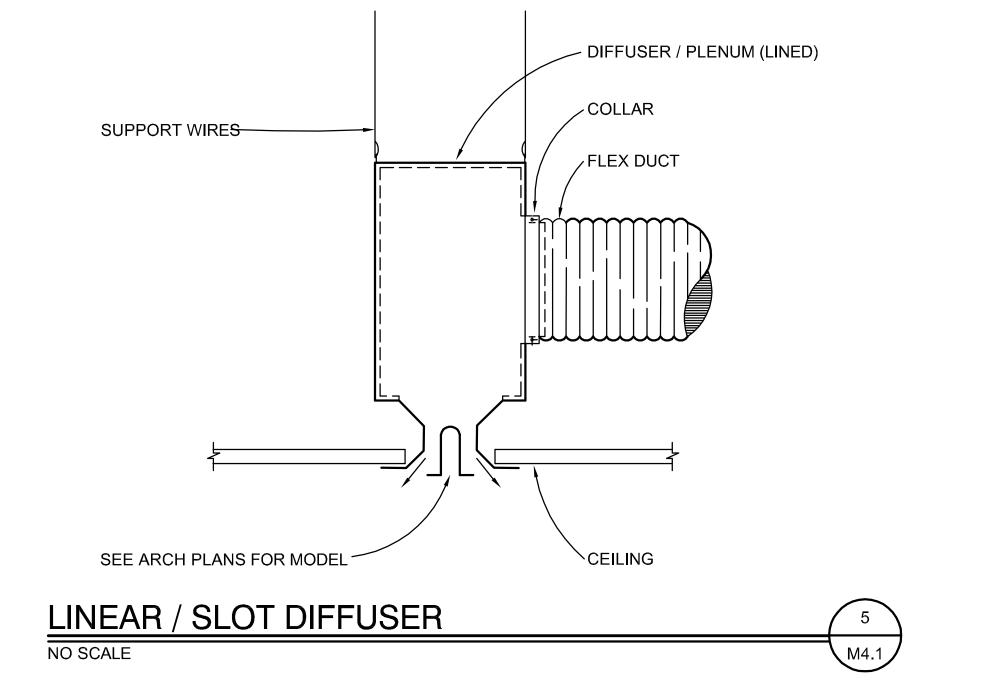
NOTES: 1. COORDINATE EXACT LOCATION AND FRAMING OF ROOF OPENING WITH GENERAL CONTRACTOR.

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

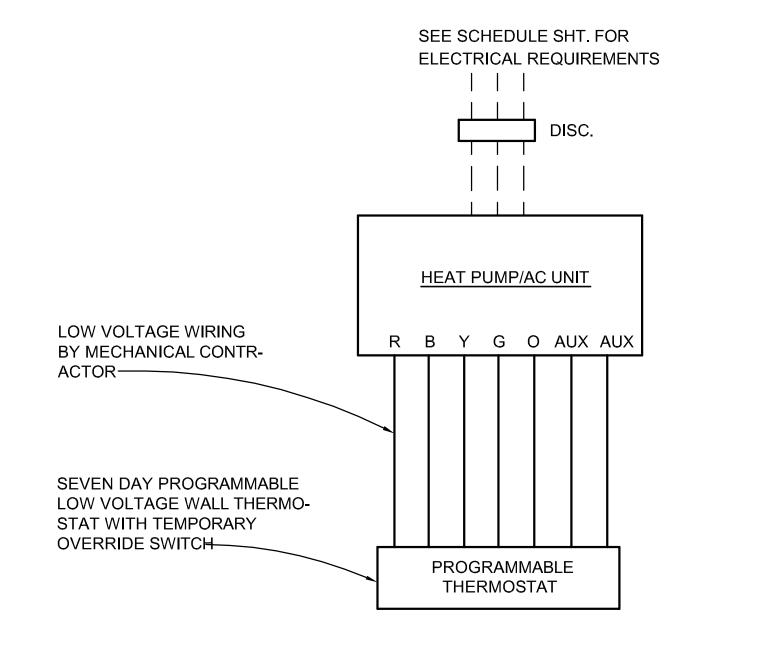






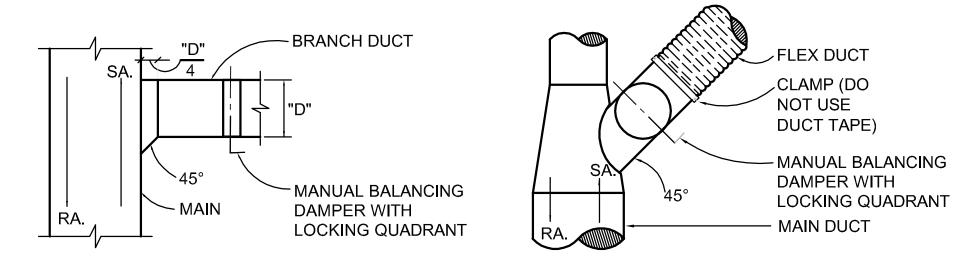






HEAT PUMP CONTROL DIAGRAM

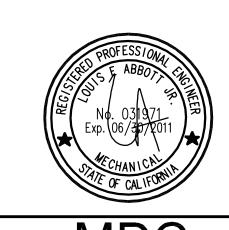
NO SCALE



RECTANGULAR BRANCH DUCT **ROUND BRANCH DUCT**







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

JOB NO.: SDG11-6064-00

DRAWN BY:

DRAWN BY

SDG11-6064-0

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

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

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 periods shall govern.

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 3 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

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
- pressures indicated 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.

Diameter	Standard Spiral Gauge					
(or Equivalent Rectangular) (Inches)	0-2 Inches Wg	or	0-2 Inches Wg (Negative)			
3-8	28		26			
9-14	28		26			
15-26	26		24			

- 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

- 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.
- sealed with mastic or duct sealer. Duct tape is not acceptable.

3. Transverse joints for rectangular ducts shall be government locking with standing seams and

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

- A. 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.
- 1. 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 hanger schedule
- 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 f	t. Spacing	Pair at 5 f	t. Spacing	Pair at 4 F	t. Spacing
	of Duct Perimeter	Strap	Wire/Rod	Strap	Wire/Rod	Strap	Wire/Rod	Strap	Wire/Rod
	<u>P</u> = 30"	1"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
	<u>P</u> = 72" 2 A.	1"x 18 ga.	3/8"	1"x 20 ga.	1/4"	1"x 22 ga.	1/4"	1"x 22 ga.	1/4"
	<u>P</u> = 96"	1"x 16 ga.	3/8"	1"x 18 ga.	3/8"	1"x 20 ga.	3/8"	1"x 22 ga.	1/4"
_			ļ.			į.		Į.	1

2.05 DUCTWORK ACCESSORIES

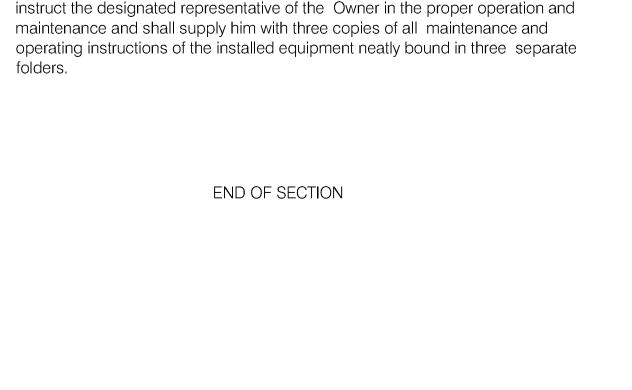
- Flexible Duct Connectors: Provide flexible fan connector at the inlet and discharge of all air handling equipment and where indicated on the drawings. The flexible duct connectors shall isolate vibration transition from the air handling equipment to the attached ductwork. The connectors shall be pre-assembled 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
- 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.
- E. 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:
- a. Where the duct serves only a single room or the space and it's design volume is less than 1700 CFM.
- 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

guarantee period, all defects shall be remedied without cost to the Owner. A

knowledgeable representative of the contractor shall, at the time of turnover,

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

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	PLUMBING EQUIPMENT SCHEDULE										
MARK	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NUMBER	REMARKS							
WH 1	WATER HEATER (ELECTRIC)	4TH FLOOR JANITORS RM.	AO SMITH - DEL-50, 50 GALLON CAPACITY, $^{400}\!\!/_{4000}$ WATTS SIMULTANEOUS INPUT (8000 WATTS TOTAL), 54 GPH RECOVERY RATE AT 60 DEGREE RISE, 208V/3PH. OPERATING WEIGHT - 583 LBS.								
CP 1	CIRCULATION PUMP	4TH FLOOR JANITORS RM.	TACO - MODEL # 006-B4, 2 GPM @ 7 FT HD., 3250 RPM, ALL BRONZE, 115V/1PH., .52 AMPS.								
GD 1	GARBAGE DISPOSAL	SINK S-1	INSINKERATOR - BADGER 5, ½ HP, 120V/1PH., STAINLESS STEEL CONSTRUCTION.								

SLIDE BAR. DRAIN SAME AS FD-1 LESS TRAP PRIMER.

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

ENERGY CONSERVATION (PLUMBING)

- 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

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 HORI-ZONTALLY.

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 ANALYSI	S
TOTAL FIXTURE UNITS ON METER	94.5
DEMAND FLOW (GPM)	66
MAIN PRESSURE (PSIG)	135
PRESSURE AT METER DISCHARGE (PSIG)	125
PRESSURE DROP THRU BACKFLOW PREVENTER (PSIG)	12
REGULATED PRESSURE (PSIG)	70
DIFFERENCE IN ELEVATION PRESS. DROP (PSIG)	7
RESIDUAL PRESSURE REQUIRED (PSIG)	25
PRESSURE AVAILABLE FOR DROP (PSIG)	38
LONGEST DEVELOPED RUN OF PIPE (FEET)	330
MAXIMUM ALLOWABLE PRESSURE DROP (PSIG/100 FT.)	11

SYMBOL	ABBR.	PLUMBING LEGEND DESCRIPTION
STIVIDUL	W./S.	NEW WASTE OR SOIL PIPING BELOW GRADE
	W./S.	NEW WASTE OR SOIL PIPING ABOVE GRADE.
	V	VENT PIPING
	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
— 151—	S.O.V.	SHUT-OFF VALVE
— √ —	PV	PLUG VALVE
—	CV	CHECK VALVE
——————————————————————————————————————	PRV	PRESSURE REDUCING VALVE
		DIRECTION OF FLOW
 ∅	FCO	FLOOR CLEANOUT
—1	wco	WALL CLEANOUT
•	POC	POINT OF CONNECTION
_ L	VTR	VENT THRU ROOF
	B.V.	BALANCING VALVE
	WHA	WATER HAMMER ARRESTOR
—	TP	TRAP PRIMER LINE

PIPE MATERIALS SCHEDULE

SAN. WASTE & STORM DRAIN PIPING: (ABOVEGRADE)

(ABOVE GRADE)

SERVICE WEIGHT CAST-IRON, NO-HUB PIPE AND FITTINGS WITH NEOPRENE GASKETS AND S.S. BANDS.

SAME AS SANITARY WASTE

VENT PIPING

DOMESTIC COLD & HOT WATER PIPING: TYPE "L" HARD DRAWN, COPPER PIPE & FITTINGS WITH LEAD FREE SOLDER JOINTS. (ABOVE GRADE)

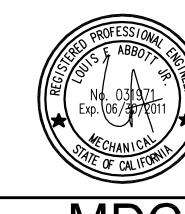
PIPING) CONDENSATE DRAIN PIPING:

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

(INSULATE HOT WATER & CIRCULATION

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

Appliances, Appurtances or Fixtures	Minimum Fixture Branch Pipe Size	Private	Public	Assembly	х	# Fixtures Added	# Fixtures Removed	# Fixtures Remaining	TOTAL ACROSS <u>+</u>
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			3	+0
Lavatory	1/2"	1.0	1.0	1.0	х	11	8	8	+3
Lawn Sprinkler, each head	-	1.0	1.0	-	х				
Mobile Home, each (Minimum)	-	12.0	-	-	х				
Bar Sink	1/2"	1.0	2.0	i	х	3			+6
Clinic Faucet Sink	1/2"	-	3.0	ı	х				
Clinic Flushometer Valve with or without faucet	1"	-	8.0	1	Х				
Kitchen Sink, domestic	1/2"	1.5	1.5	ı	х				
Laundry Sink	1/2"	1.5	1.5	-	Х				
Service Sink or Mop Basin	1/2"	1.5	3.0	i	х	1	1	1	+0
Washup Sink, each set of faucets	1/2"	-	2.0	-	Х				
Shower, per head	1/2"	2.0	2.0	-	х	1	2		-2
Urinal, 1.0 GPF Flushometer Valve	3/4"	-	5.0	4.0	х	4	3		+5
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	1	х				
Water Closet, 1.6 GPF Gravity Tank	1/2"	2.5	2.5	3.5	х				
Water Closet, 1.6 GPF Flushometer Tank	1/2"	2.5	2.5	3.5	х				
Water Closet, 1.6 Flushometer Valve	1"	5.0	5.0	8.0	Х		9		-45
Water Closet, 1.28 Flushometer Valve	1"	5.0	5.0	8.0	х	11			+55
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				



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WARE Leading Design

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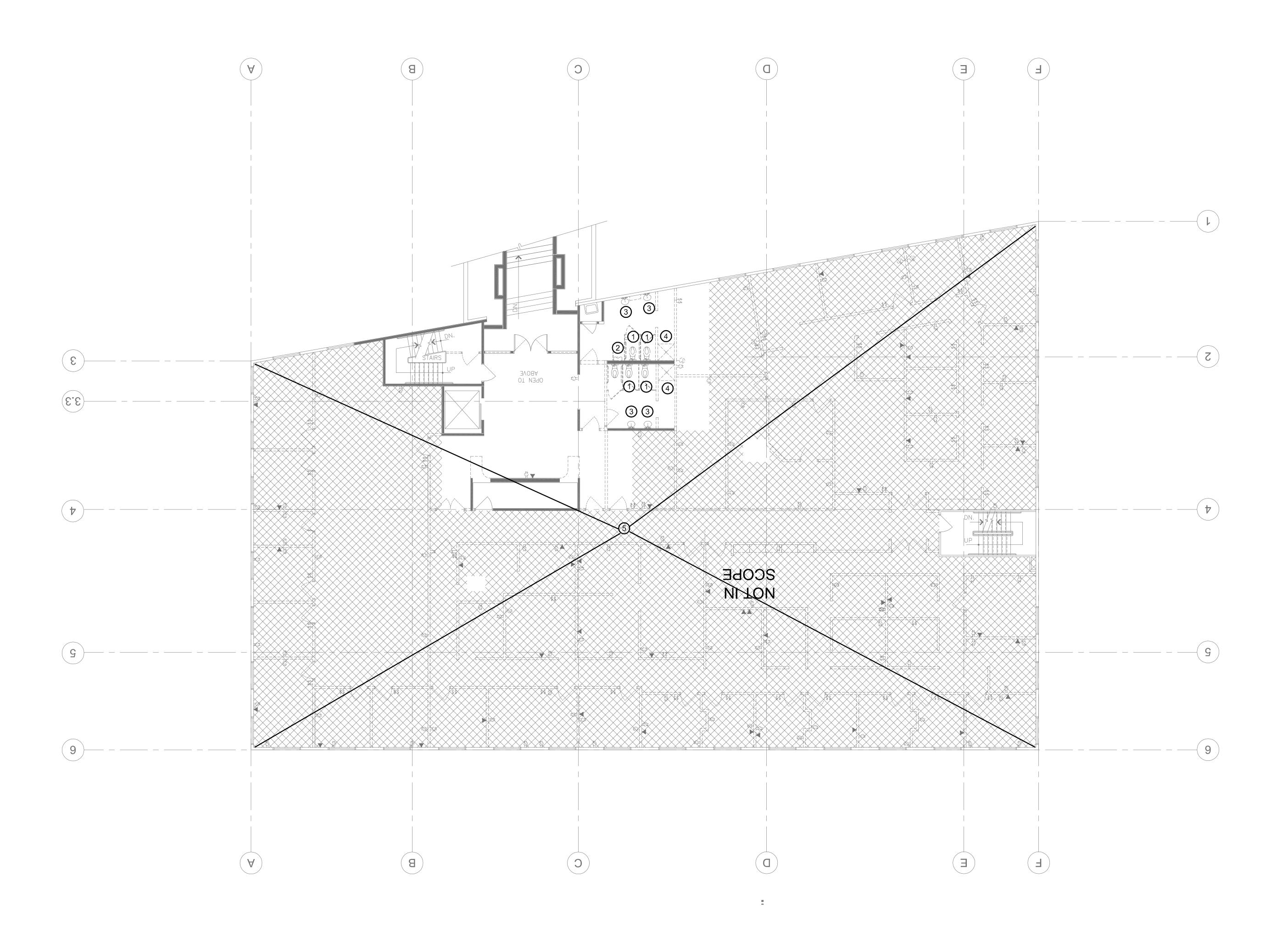
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JOB NO SDG11-6064-00

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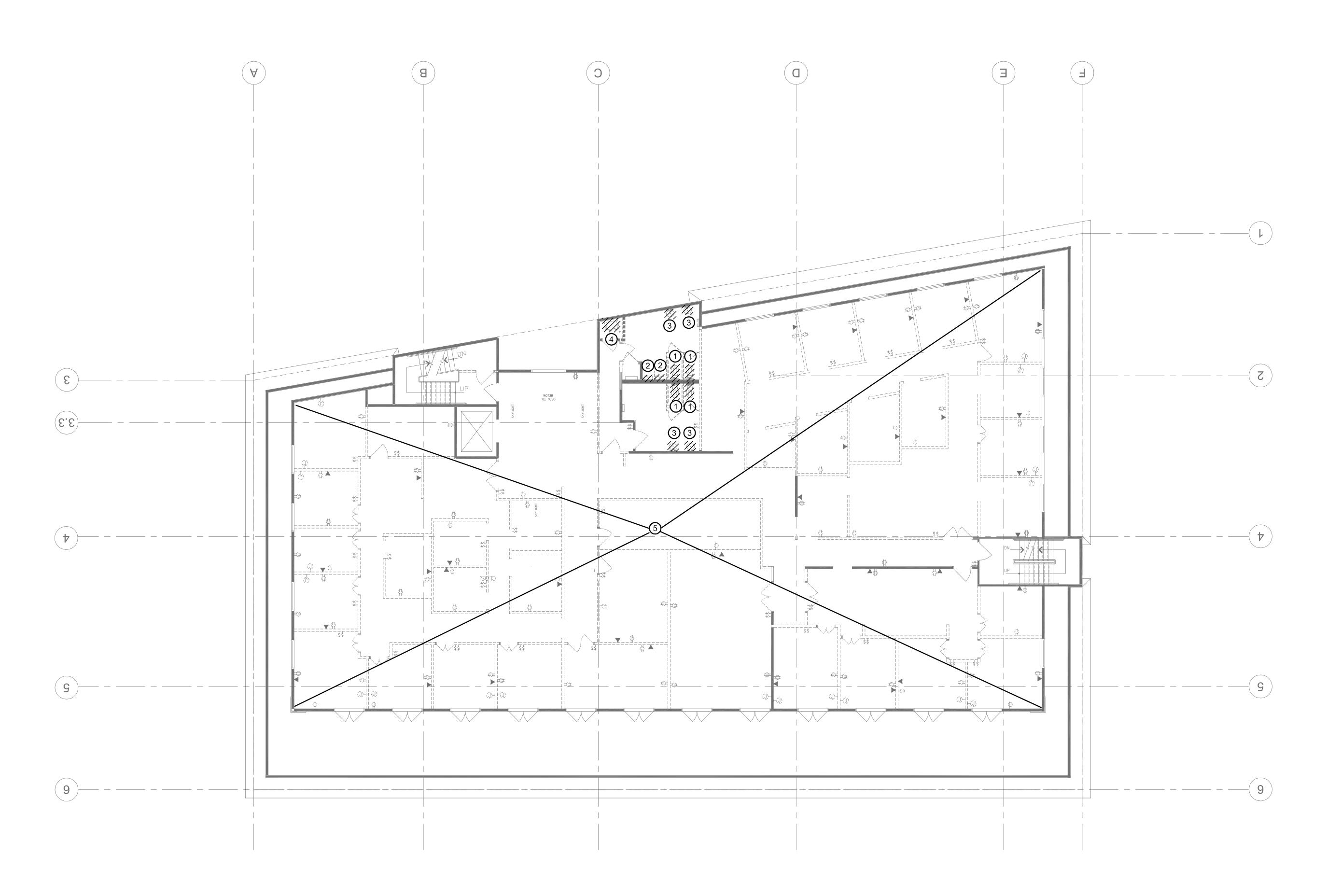
THIRD FLOOR PLAN - PLUMBING DEMOLITION

DEMOLITION NOTES

- 1 REMOVE EXISTING WATER CLOSET.
- 2 REMOVE EXISTING URINAL.
- 3 REMOVE EXISTING LAVATORY.
- 4 REMOVE EXISTING SHOWER AND TRIM.
- TEMOVE ALL WATER HEATERS, HOT WATER & CONDENSATE DRAIN PIPING FROM FAN COIL UNITS ABOVE CEILINGS FOR ENTIRE FLOOR (TYP.)



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FOURTH FLOOR PLAN - PLUMBING DEMOLITION

DEMOLITON NOTES

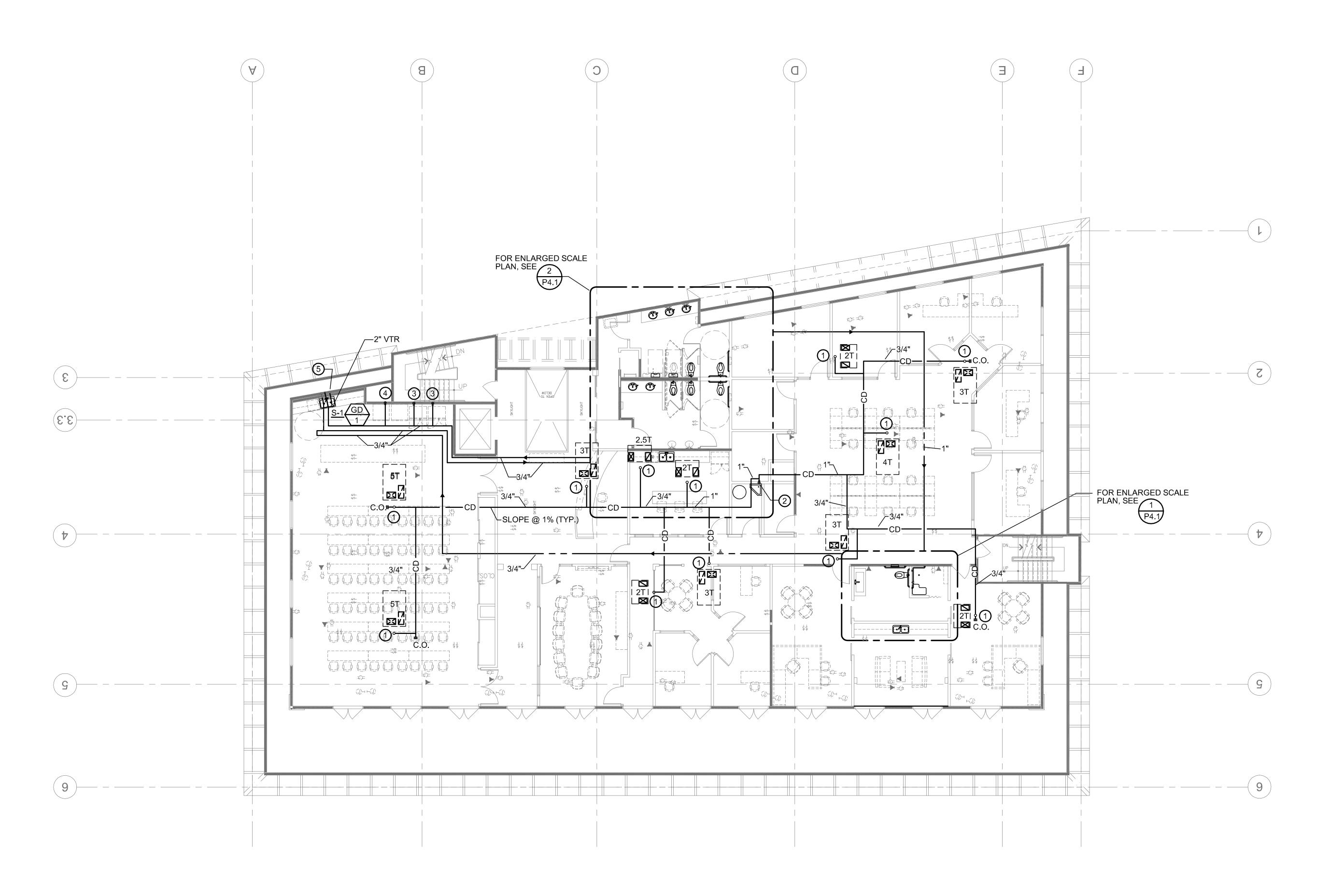
- 1 REMOVE EXISTING WATER CLOSET.
- 2 REMOVE EXISTING URINAL.
- 3 REMOVE EXISTING LAVATORY.
- REMOVE EXISTING JANITORS SINK. CAP WASTE PIPING BELOW FLOOR. CAP WATER & VENT ABOVE CEILING.
- TEMOVE ALL WATER HEATERS, HOT WATER PIPING, CONDENSATE DRAIN PIPING FROM FAN COIL UNITS ABOVE CEILING AND BAR SINKS AND TRIM. CAP PIPING BELOW FLOOR AND ABOVE CEILING.

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WARE Leading Design

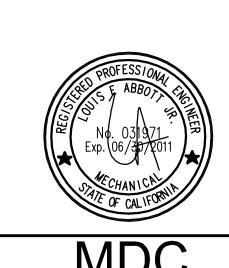


THIRD FLOOR PLAN - PLUMBING

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

SHEET NOTES

- 1) 3/4" CONDENSATE DRAIN UP TO HEAT PUMP ON ROOF. SEE (2) (TYP.)
- 2 TERMINATE 1" CONDENSATE DRAIN AT JANITORS SINK.
- 3 1/2" CW DN. TO OVEN FILTER CONNECTION WITH SHUT-OFF VALVE.
- 4) 1/2" CW DN. TO ICE MAKER VALVE BOX.
- 5 2" W. DN. TO 2ND FLOOR.



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MDC

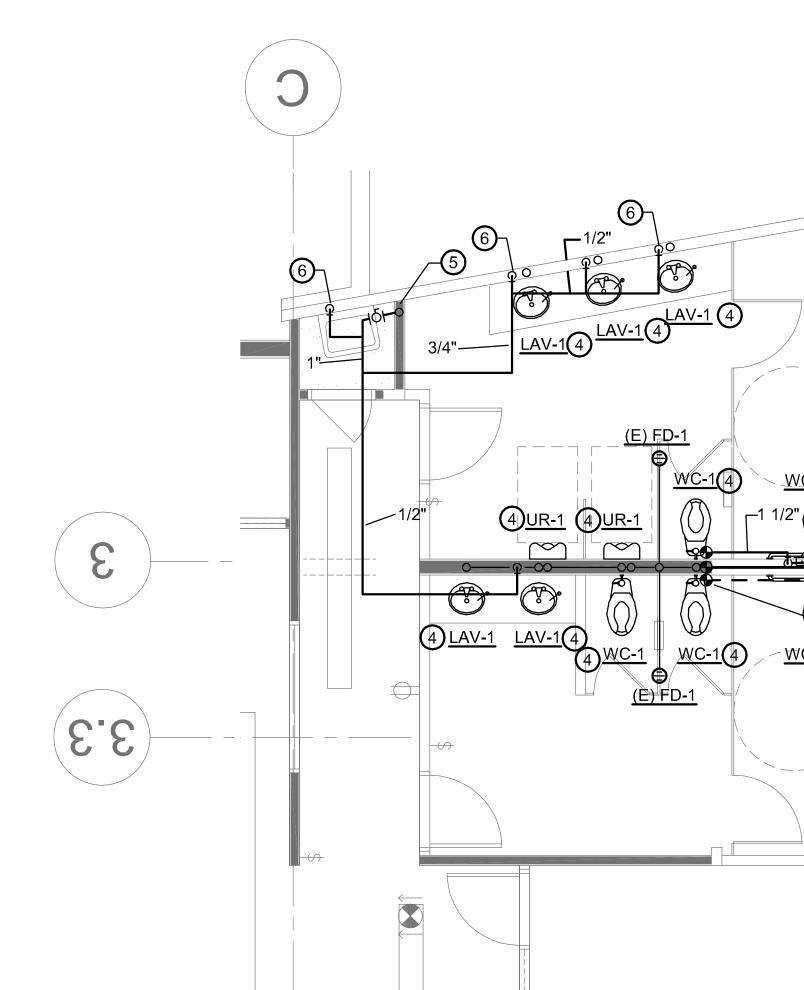
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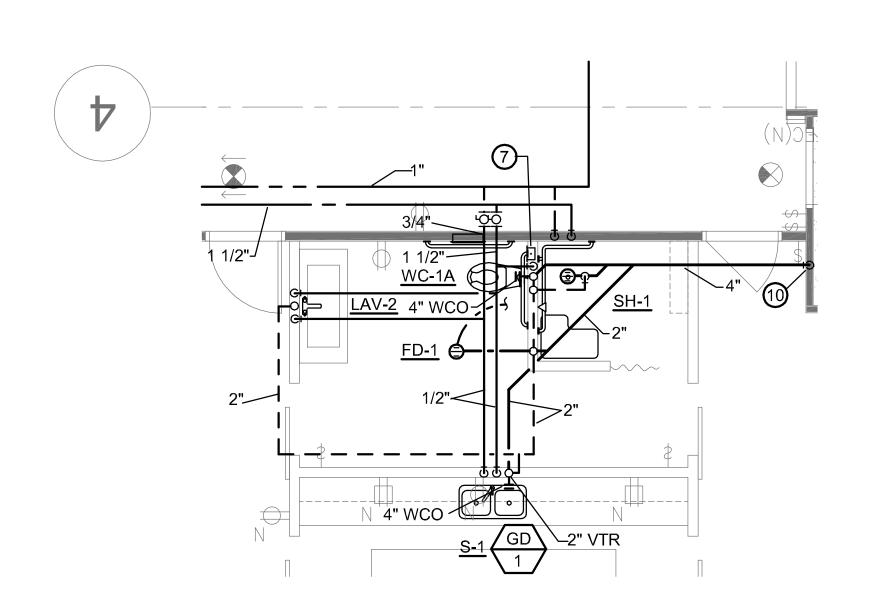
PLUMBING ROOF PLAN

SHEET NOTES 1 NEW HEAT PUMP ON ROOF PER MECHANICAL DRAWINGS.

(TYP.)

HP 3-1 HP 4-4





ENLARGED PLUMBING FLOOR PLAN - FOURTH FLOOR

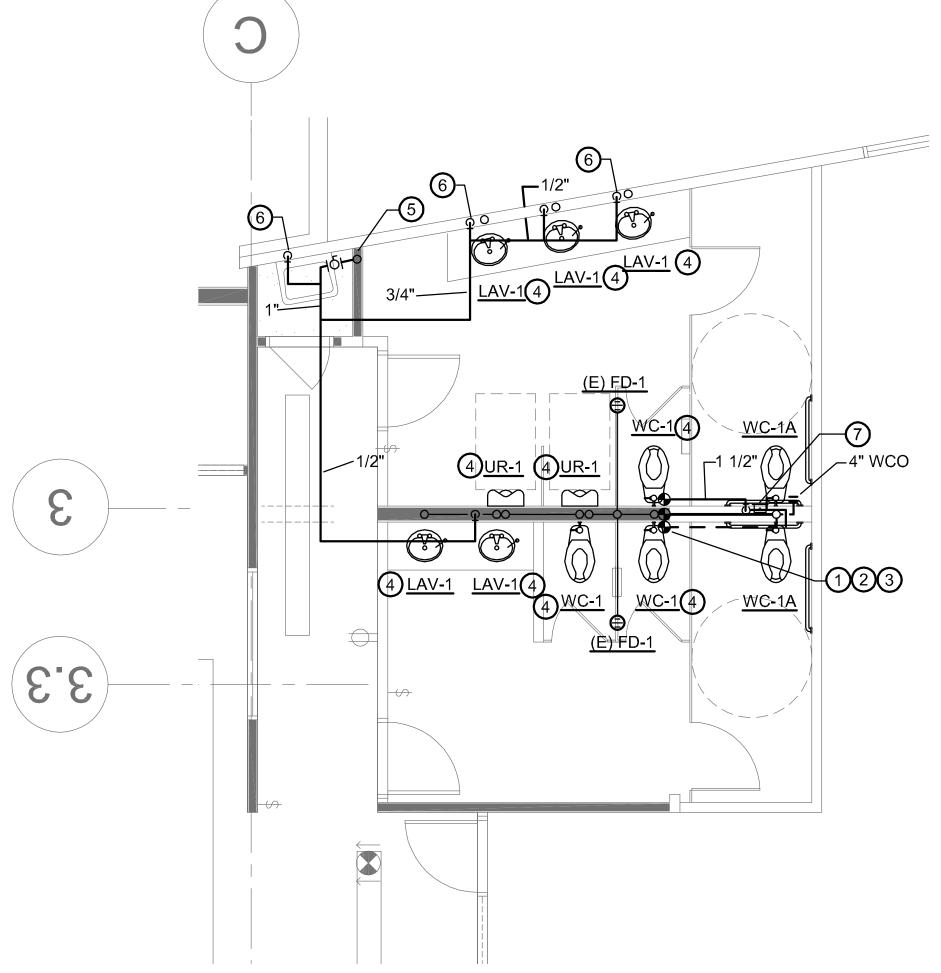
SCALE: 1/4"=1'-0" P4.1





SHEET NOTES

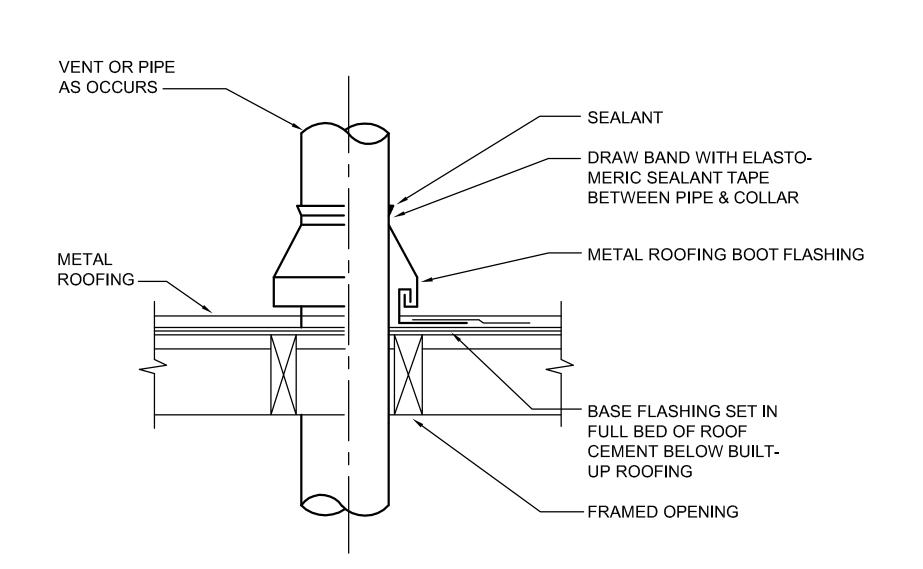
- 1 POC OF NEW 4" S. PIPING TO EXISTING BELOW FLOOR (VERIFY EXACT LOCATION IN FIELD)
- 2 POC OF NEW 1 1/2" CW PIPING TO EXISTING ABOVE CEILING (VERIFY EXACT LOCATION IN FIELD)
- 3 POC OF NEW 2" VENT PIPING TO EXISTING VENT MANIFOLD ABOVE CEILING OR IN WALL.
- 4 CONNECT EXISTING FIXTURE TO EXISTING WASTE BELOW FLOOR OR WALL & CW AND VENT WITHIN WALL
- 5 NEW 1" HW DN. TO 3RD FLOOR.
- 6 CONNECT NEW 1/2" HW TO NEW FIXTURES (TYP.)
- 7 NEW WATER HAMMER ARRESTOR (SIZE 'A') WITH ACCESS PANEL.
- 8 1/2" TRAP PRIMER LINE BELOW FLOOR. SEE ———
- 9 1/2" CW DN. TO ICE MAKER VALVE BOX.
- 10 NEW 4" S. DN. TO GARAGE LEVEL AND POC TO (E) 4" S. VERIFY LOCATION IN FIELD)



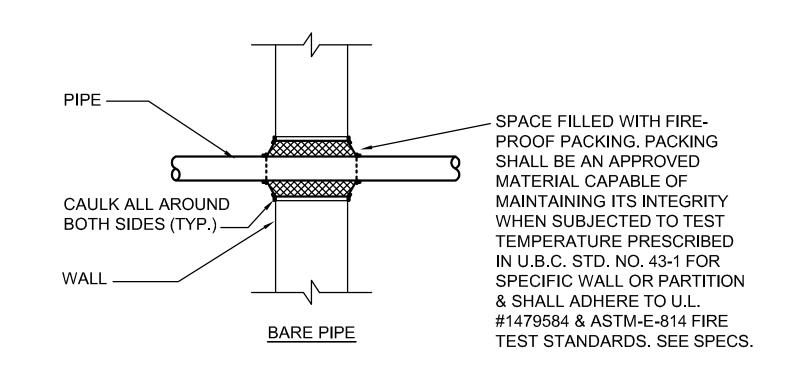


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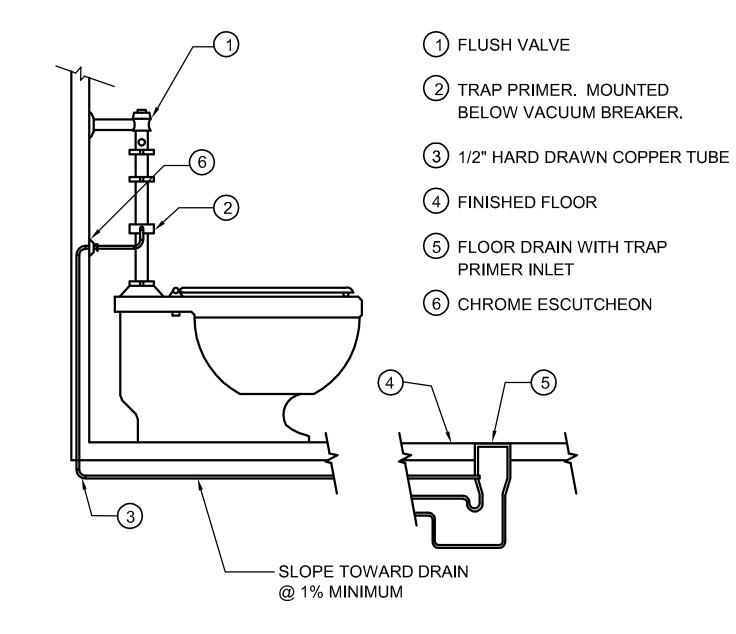
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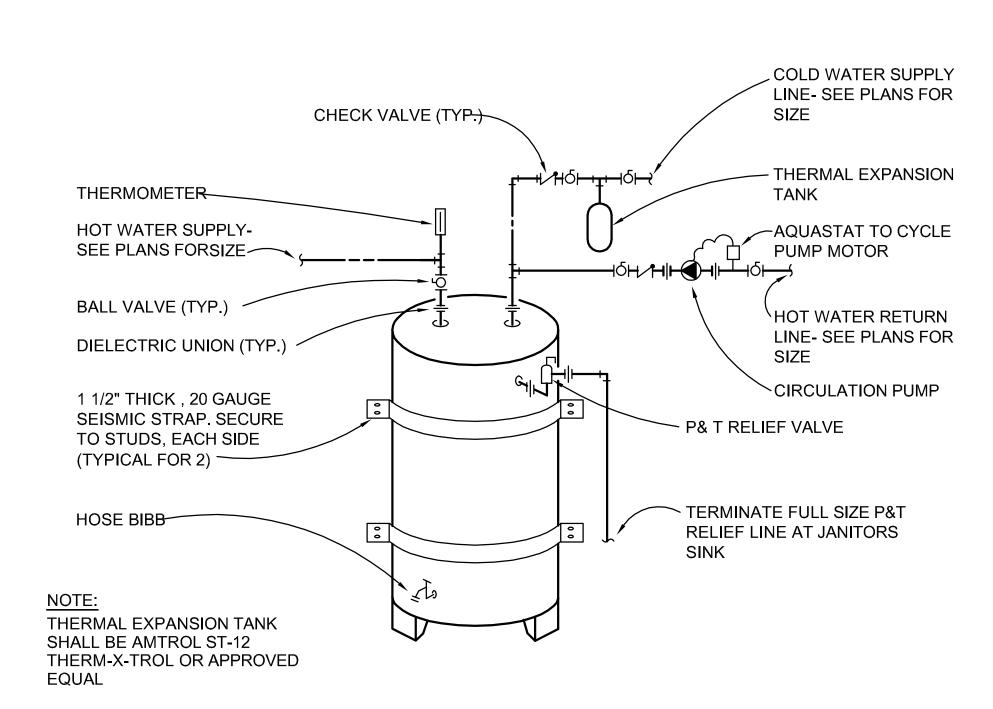




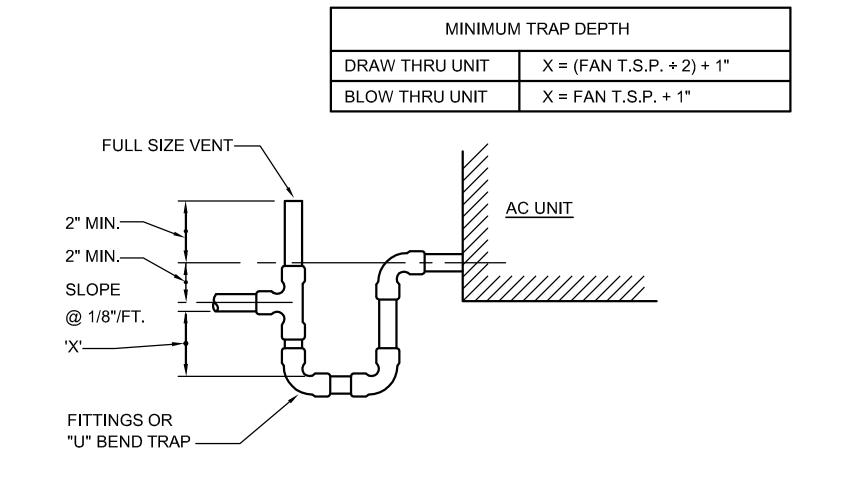




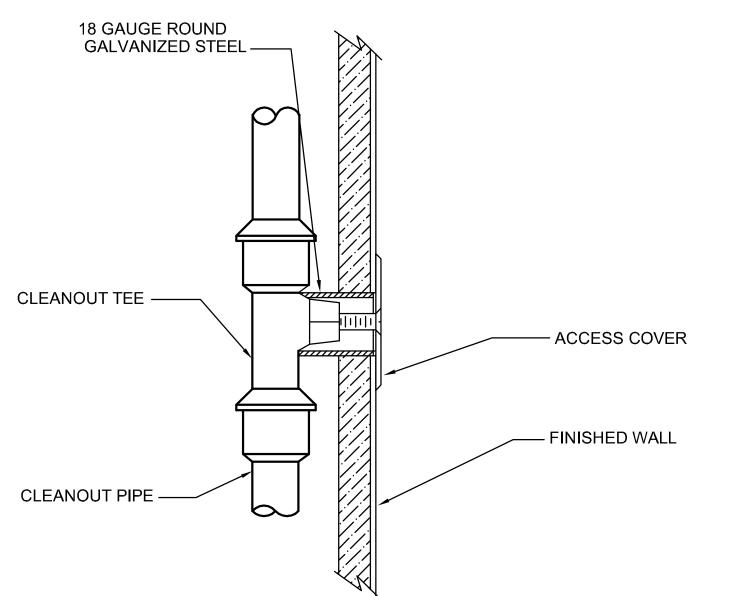
TRAP PRIMER DETAIL	6	
NO SCALE	P5.1	



ELECTRIC WATER HEATER PIPING DIAGRAM NO SCALE







WALL CLEANOUT DETAIL
NO SCALE



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MALCOMB for Commercial Real Estate

WARE Leading Design

PA / PM: TENGLISH DRAWN BY:

D. PIPE HANGERS

- 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
- 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
- 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.
- 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.

ROOF FLASHING

SANITARY VENT FLASHINGS:

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

2. OTHER PIPE THROUGH ROOF FLASHING:

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

F. PIPE SLEEVES

- 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 CONCRÉTE 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.

INSULATION

- 1. ALL PIPE INSULATION SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION TANDARDS. 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
- 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 B 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 TRÂP ALL WASTES. PROVIDE EXPOSED SUPPLIES AND WASTES TO WALL WITH POLISHED CHROME PLATED CAST BRASS

- 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

- THE WORD "PIPING" IN THIS PARAGRAPH MEANS PIPE, FITTINGS, NIPPLES, VALVES AND ACCESSORIES PERTINENT TO MAINS AND CONNECTIONS THROUGHOUT THE WORK.
- 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.
- 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.
- 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
- 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
- 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.
- 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
- 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 LINÉS, 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 FIXTÚRE LÍNES 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.
- 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. 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. 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.
- 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

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:

TEST PRESSURE DOMESTIC HOT & COLD WATER 150 PSI

1. ALL PIPING SHALL BE FULLY EXPOSED FOR INSPECTION

2. ALL TESTING IN THE PRESENCE OF THE AUTHORIZED INSPECTOR

- D. 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

- PROTECT MATERIALS AND FIXTURES AFTER INSTALLATION AGAINST DAMAGE OR USE DURING
- B. 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

3.07 CLEAN UP

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.

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

1. "AS-BUILT" RECORD DRAWINGS TEST REPORTS

B. CERTIFIED STATEMENT OF LABORATORY TESTS

FINAL PAYMENT AND FORMAL ACCEPTANCE OF THE PROJECT.

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



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REMARKS

LAN CHECK SUBMITAL

SUE FOR CONSTRUCTION

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1— BOUNDARY NAILING AROUND THE NEW OPENINGS.

2— VERIFY ALL DIMENSIONS WITH ARCHIT'L DWG'S BEFORE START OF ANY WORK.

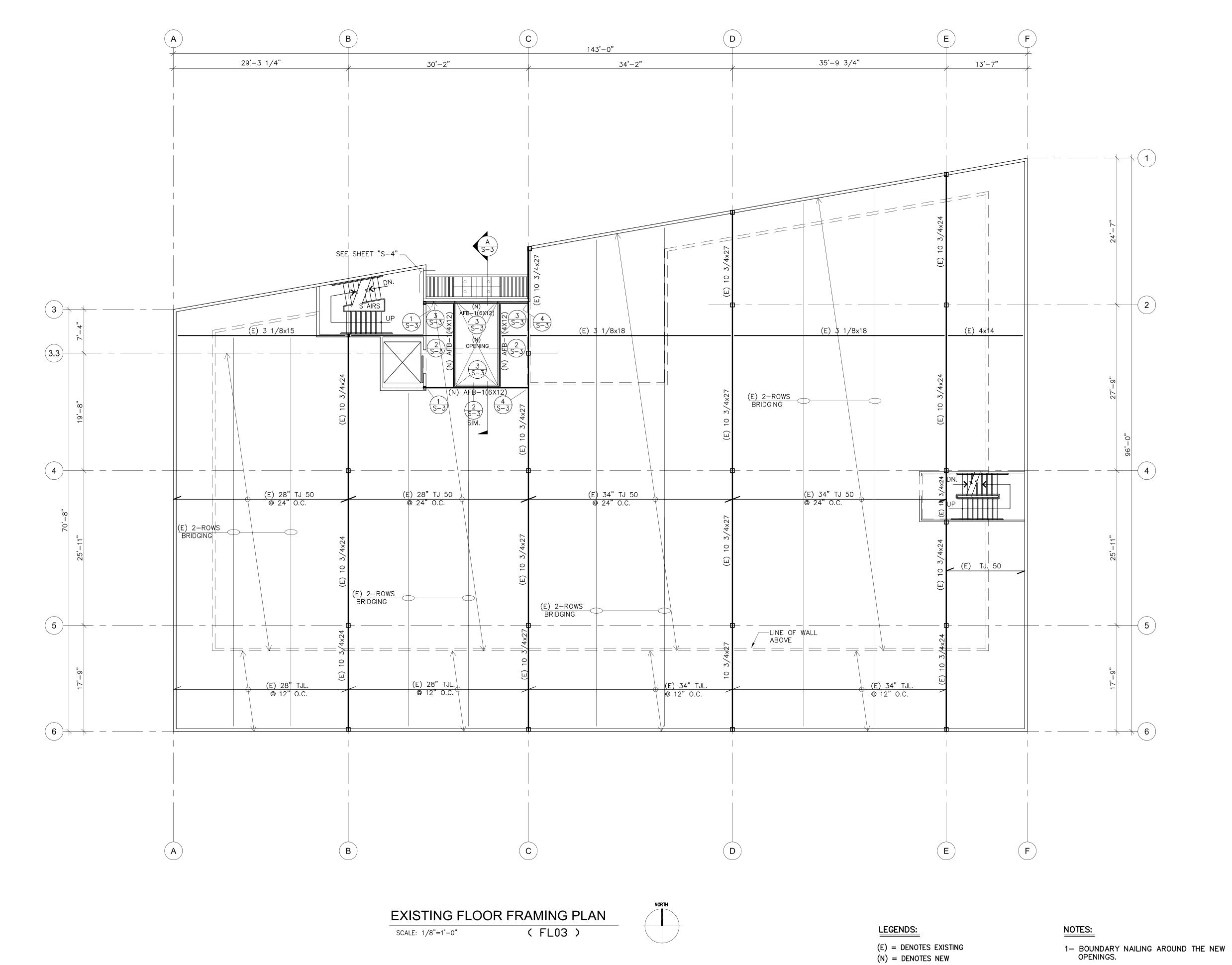
3— CONTRACTOR SHALL BE SHORE AND PROTECT EXISTING FLOOR BEFORE SAW—CUTTING THE FLOOR.

DRAWN BY: TIGRIS

CHECKED BY: SHIROM

JOB NO.: **05-145-11**SHEET

S-1



DRAWN BY: TIGRIS

SHEET

S-2

JOB NO.:

