GENERAL NOTES

1. VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS. BRING ANY DEVIATIONS TO THE ATTENTION OF THE TENANT'S PROJECT MANAGER.
2. ALL DIMENSIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCING THE WORK. FAILURE TO DO SO SHALL PLACE FULL RESPONSIBILITY FOR ANY ERRORS UPON THE CONTRACTOR.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, AND/OR EASEMENTS, EXISTING UTILITIES, AND ANY UNDERGROUND OR SURFACE STRUCTURE OR CONDITIONS PRIOR TO COMMENCING THE WORK.
4. UPON COMPLETION OF THE WORK, PROVIDE AND INSTALL A WALL FRAME WITH CLEAR PLEXI FACE OVER THE MANAGER'S DESK CONTAINING THE CERTIFICATE OF OCCUPANCY.
5. UPON COMPLETION OF THE WORK, PROVIDE AND INSTALL A P.V.C. TUBE AS SPECIFIED IN THE PLANS WITH A COMPLETE COPY OF THE AS-BUILT CONSTRUCTION DOCUMENTS.
6. SEE RESPONSIBILITY SCHEDULE TO CLARIFY RESPONSIBILITIES FOR SPECIFIED WORK.

SPECIFICATIONS

DIVISION I GENERAL REQUIREMENTS/ GENERAL CONDITIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL TENANT SPACE INCLUDING, BUT NOT LIMITED TO ALL FINISHES, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION.

A - COORDINATION
1. OBTAIN A COPY OF THE TENANT CONTRACTOR GUIDELINES HANDBOOK AND COMPLY WITH THE REQUIREMENTS. NOTE IN PARTICULAR THE INSURANCE REQUIREMENTS, MALL CONSTRUCTION PROCEDURES, UTILITY LOCATIONS, TEMPORARY REQUIREMENTS, MALL CONSTRUCTION PROCEDURES, TEMPORARY BARRICADE WALLS, CONSTRUCTION MATERIALS, HAUL OFF, AND PERMIT INFORMATION.
2. COORDINATE WORK WITH THE WORK OF OTHER TRADES, THE LANDLORD'S FORCES, AND GENERAL CONTRACTOR, TO AVOID CONFLICTS AND EXPEDITE THE COMPLETION OF THE PROJECT.
3. NO WORK SHALL COMMENCE WITHOUT CONSENT OF THE LANDLORD.

B - PAYMENT AND WAIVER OF LIENS:
ALL PAYMENTS MADE TO THE TENANT'S GENERAL CONTRACTOR FOR THIS PROJECT ARE TO BE ALLOCATED FOR THIS PROJECT ONLY FOR PAYMENTS TO SUBCONTRACTORS, MATERIAL SUPPLIERS, AND AGENTS AUTHORIZED BY SPECIFIC CONTRACTORS TO PERFORM WORK OR SUPPLY MATERIALS TO THIS PROJECT. THE TENANTS' GENERAL CONTRACTOR IS REQUIRED TO SUBMIT PARTIAL WAIVERS OF LIEN FOR HIS WORK AS WELL AS FOR HIS WORK, ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS. THE FINAL TEN PERCENT RETENTION ON THIS PROJECT MUST INCLUDE SIGNED AND EXECUTED WAIVERS OF LIEN INDICATING 100% COMPLETION AND 100% PAYMENT IN FULL BY ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS. A LIST OF ALL SUBCONTRACTORS, INCLUDING ADDRESS AND PHONE NUMBER, ARE TO BE PROVIDED TO THE STORE AND TO THE TENANT'S HOME OFFICE.

C - QUALITY OF WORK:
ALL WORK SHALL BE PERFORMED IN A SAFE AND WORKMAN LIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION STANDARDS AND OSHA REQUIREMENTS. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS UNLESS A VARIANCE IS APPROVED BY THE TENANT AND ALL AUTHORITIES HAVING JURISDICTION. ALL EQUIPMENT & MATERIALS UNDER THE CONTRACT ARE TO BE NEW UNLESS OTHERWISE SPECIFIED IN THE PLANS.

D - CODE COMPLIANCE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE CERTAIN THAT ALL WORK IS IN COMPLIANCE WITH ALL CODES, ORDINANCES, AND REGULATIONS OF ALL PUBLIC AUTHORITIES HAVING JURISDICTION (E.G.-NEC, ETC.).

E - DIMENSIONS:
UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE MEASURED FROM FINISHED TO FINISHED FACE OF MATERIALS, FACE OF STOREFRONT, OR LEASE LINE. VERIFY ALL PROPOSED DIMENSIONS TO BE CONSISTENT WITH FIELD CONDITIONS. ADVISE TENANT'S PROJECT MANAGER OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND ACTUAL JOB CONDITIONS BEFORE COMMENCING THE WORK.
ALL ANGLES SHALL BE 90 OR 45 DEGREES, UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DOCUMENTS.

F - SHOP DRAWINGS:
1. SUBMIT THE NUMBER OF OPAQUE REPRODUCTIONS WHICH CONTRACTOR REQUIRES, PLUS TWO COPIES, TO THE TENANT'S PROJECT MANAGER FOR APPROVAL.
2. SUBMITTALS MUST BE SCHEDULED SO AS NOT TO IMPEDE THE PROGRESS OF THE WORK.
3. MARK EACH COPY TO IDENTIFY APPLICABLE PRODUCTS, MODELS, OPTIONS, AND OTHER DATA. SUPPLEMENT MANUFACTURER'S STANDARD DATA TO PROVIDE INFORMATION SPECIFIC TO THIS WORK.
3. INDICATE SPECIAL UTILITY AND ELECTRICAL CHARACTERISTICS, UTILITY CONNECTION REQUIREMENTS, AND LOCATION OF UTILITY OUTLETS FOR SERVICE FOR FUNCTIONAL EQUIPMENT AND APPLICANCES.
4. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS WHICH MAY AFFECT THE CONSTRUCTION PROGRESS.
5. DIRECT ALL SUBMITTALS TO THE TENANT'S PROJECT MANAGER.

G - GUARANTEE:
GUARANTEE IN WRITING ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF COMPLETION AND ACCEPTANCE BY THE TENANT.
ALL WORK SHALL CONFORM TO REQUIREMENTS OUTLINED IN THE LANDLORD'S SPECIFICATION TO LESSEE AND SHALL BE APPROVED BY THE LANDLORD. FURNISH THE FOLLOWING UPON COMPLETION OF WORK:
1. CERTIFICATE OF OCCUPANCY
2. GENERAL CONTRACTOR'S AFFIDAVIT
3. GENERAL CONTRACTOR'S RELEASE OF WAIVER OR LIEN
4. AN EXECUTED AND ACKNOWLEDGED RELEASE OF MECHANICAL LIENS WITH RESPECT TO DEMISED PREMISES EXECUTED BY THE TENANT'S GENERAL CONTRACTOR AND EVERY SUB CONTRACTOR AND SUPPLIER OF LABOR AND MATERIALS ENGAGED IN TENANT'S WORK.
5. ELECTRICAL INSPECTION CERTIFICATE
6. UNDERWRITERS APPROVAL CERTIFICATE FOR THE ELECTRICAL WORK
7. HVAC WARRANTY
8. OPERATIONS MANUALS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT

H - SUPERVISION:
PROVIDE A FULL TIME, QUALIFIED SUPERVISOR ON THE JOB SITE. ANY WORK REQUIRED TO BE COMPLETED DURING NON-BUSINESS HOURS SHALL BE INCLUDED IN THE BID. NOTIFY MALL MANAGER PRIOR TO PERFORMING ANY NON-BUSINESS HOUR WORK.

I - UTILITIES:
ARRANGE AND PAY FOR ALL TEMPORARY UTILITIES. FOOTLOCKER INC. MANAGEMENT DEPARTMENT WILL ESTABLISH OR TRANSFER SERVICE UNDER THE FOOTLOCKER INC NAME UPON COMPLETION OF CONSTRUCTION AND TURNOVER FOR MERCHANDISING.

J - TELEPHONE:
INSTALL AN ON SITE JOB TELEPHONE AND FAX MACHINE DURING THE ENTIRE CONSTRUCTION PERIOD AND NOTIFY THE TENANT'S PROJECT MANAGER IMMEDIATELY OF THE TELEPHONE AND FAX NUMBERS. TENANT MAY OBTAIN LOCAL AND LONG DISTANCE TELEPHONE SERVICE FROM ITS PROVIDER OF CHOICE.

K - TRASH REMOVAL:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY REMOVAL OF ALL TRASH, RUBBISH AND SURPLUS MATERIALS FROM THE JOB SITE.

GENERAL CONDITIONS (CONT.)

K - CLEAN UP AT TURNOVER:
THE STORE IS TO BE PROFESSIONALLY CLEANED AND LEFT IN "READY FOR SELLING" CONDITION. STOREFRONT, LIGHTS, STORE FIXTURES, ADJACENT NEUTRAL PIERS AND LANDLORDS' BULKHEAD ARE TO BE CLEANED OF ALL DUST, GLUE, GROUT, AND MISAPPLIED PAINT. REMOVE ALL PROTECTIVE COVERINGS AND ALL CONSTRUCTION MATERIALS AS DIRECTED BY THE PROJECT MANAGER. HVAC FILTERS TO BE CHANGED FOLLOWING CLEANING.

L - INSURANCE:
SECURE, PAY FOR AND MAINTAIN, DURING CONSTRUCTION AND FIXTURING WORK WITHIN LEASED PREMISES, ALL OF THE INSURANCE POLICIES REQUIRED AND IN AMOUNTS AS SET FORTH HEREIN. WORK SHALL NOT COMMENCE UNTIL ALL REQUIRED INSURANCE HAS BEEN OBTAINED AND CERTIFICATES OF SUCH INSURANCE HAVE BEEN DELIVERED TO THE LANDLORD AND TENANT. THE LANDLORD MUST BE NAMED AS "ADDITIONAL INSURED". CERTIFICATE OF INSURANCE SHALL COVER WORK PERFORMED BY THE CONTRACTOR, EACH SUBCONTRACTOR AND ALL MAJOR SUPPLIERS. THE TENANT GENERAL CONTRACTOR AND SUBCONTRACTORS REQUIRED MINIMUM COVERAGE AND LIMITS OF LIABILITY ARE AS FOLLOWS:
1. WORKMEN'S COMPENSATION INSURANCE INCLUDING PAYMENT TO THE EMPLOYEES OF THE CONTRACTOR. COMPENSATION PROVIDED BY THE WORKMEN'S COMPENSATION LAWS OF THE STATE IN WHICH THE WORK IS BEING PERFORMED, WITH LIMITS OF NOT LESS THAN $1,000,000.
2. CONTRACTOR'S PUBLIC LIABILITY INSURANCE, HAVING LIMITS OF NOT LESS THAN $1,000,000.
3. CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE, HAVING LIMITS OF NOT LESS THAN $2,000,000.
4. GENERAL THIRD PARTY PROPERTY DAMAGE INSURANCE, HAVING LIMITS OF NOT LESS THAT $1,000,000.
5. CONTRACTOR TO FURNISH A HOLD HARMLESS CERTIFICATE FOR FOOTLOCKER INC.
6. LIMIT TO BE ADJUSTED WHERE REQUIRED BY LANDLORD FOR ADDITIONAL COVERAGE ONLY TO MEET CRITERIA LISTED IN TENANT CRITERIA BOOKLET, OR AS DISCUSSED IN PRE-CONSTRUCTION MEETING WITH LANDLORD REPRESENTATIVE.

M - INDEMNIFICATION:
TO THE FULLEST EXTENT PERMITTED BY LAW, THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE LANDLORD, TENANT, AND ARCHITECT AND THEIR AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE WORK PROVIDED THAT ANY SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE OR DEATH, OR TO INJURY OR TO DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF) INCLUDING THE LOSS OF USE RESULTING THEREFROM.

N - MISSING/DAMAGED FREIGHT:
1. OPEN BOXES WITH OBVIOUS DAMAGE.
1. BEFORE SIGNING THE FREIGHT BILL, NOTE SPECIFICALLY THE ITEM(S) DAMAGED OR MISSING. (EXAMPLE)-(4) PANELS - PERIMETER WALL DAMAGED. DO NOT JUST NOTE "1 CARTON OR PALLET DAMAGED"
3. AFTER THE PROBLEM IS NOTED ON THE FREIGHT BILL, HAVE CARRIER'S DRIVER ALSO SIGN IT. THIS WILL VERIFY THAT BOTH PARTIES AGREE TO THE EXTENT OF DAMAGE.
4. THERE ARE TIMES WHEN DAMAGE IS DISCOVERED ONLY UPON UNPACKING THE FREIGHT. IN ORDER TO RECEIVE PAYMENT IN SUCH CASE, WE MUST PROVE THAT THE FREIGHT WAS DELIVERED IN DAMAGED CONDITION. THEREFORE, ALL CARTONS MUST BE INSPECTED FOR SIGNS OF DAMAGE OR ABUSE, AND IF FOUND, THE FREIGHT BILL SHALL BE NOTED AND SIGNED AS IN 1 AND 2 ABOVE.
5. SEND ALL REQUIRED DOCUMENTATION VIA FAX TO TENANT PURCHASING MANAGER OR PROJECT MANAGER WITHIN 48 HOURS OF TAKING RECEIPT OF MATERIALS. IF TENANT'S CONTRACTOR FAILS TO FOLLOW THIS PROCEDURE, TENANT'S CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RELATED TO THE REPLACEMENT OF MISSING OR DAMAGED "TENANT FURNISHED" MATERIALS.

DIVISION II SITE CONSTRUCTION

A - VERIFY EXISTING CONDITIONS AND LOCATIONS OF UTILITIES, ROOF DRAINS, HVAC EQUIPMENT, ETC, PRIOR TO COMMENCING THE WORK.

B - DEMOLITION:
1. SCOPE OF WORK
THIS PORTION OF THE WORK INCLUDES ALL LABOR, MATERIALS AND SERVICES NECESSARY FOR AND REASONABLY INCIDENTAL TO COMPLETE ALL DISMANTLING, DEMOLITION, AND SALVAGE AS SHOWN AND NOTED ON THE DRAWINGS AND SPECIFIED HEREIN. IN GENERAL, THE ITEMS TO BE PERFORMED UNDER THIS SECTION SHALL INCLUDE, BUT ARE NOT LIMITED TO: REMOVAL OF ALL EXISTING ACOUSTICS AND GYPSUM WALL BOARD, CEILING AND FRAMES, LIGHT FIXTURES, FLOORING, DOORS AND WALLS, FURRED OUT COLUMN ENCLOSURES, AND STOREFRONT AND AS SPECIFIED ON THE DRAWINGS. FOR TAKE-OVER PROJECTS FOOTLOCKER INC. REP. MAY ELECT TO RE-USE EXISTING STOCK AREA CONDITIONS FOR PROJECTS INVOLVING EXISTING FOOTLOCKER INC OWNED STORES. IN SUCH CASE VERIFY WITH FOOTLOCKER INC. CONSTRUCTION MANAGER BEFORE REMOVAL AND CONSTRUCTION.
2. DISCONNECTION OF SERVICES
a. EXISTING SERVICES THAT WILL BE DISRUPTED BY CONSTRUCTION WORK SHALL BE RE-ROUTED AS NECESSARY TO PROVIDE TEMPORARY CONTINUATION SERVICE.
b. DISCONNECTED SERVICES SHALL BE PLUGGED AND SEALED IN AN APPROVED MANNER.
c. SPRINKLER SHUT-DOWN SHALL BE COORDINATED WITH THE BUILDING PRIOR TO EXECUTION OF WORK.
3. ABANDONED ELECTRICAL WIRING
CONDUITS AND OTHER UTILITIES ENCOUNTERED IN THE PROGRESS OF THE DEMOLITION THAT ARE TO BE ABANDONED SHALL BE DISCONNECTED AND THE ENDS PLUGGED IN AN APPROVED MANNER. ANY ABANDONED UTILITIES INTERFERING WITH WORK UNDER THIS CONTRACT SHALL BE REMOVED ONLY TO THE EXTENT THAT THEY INTERFERE WITH NEW CONSTRUCTION.
4. DEMOLITION
OPERATIONAL PROCEDURES SHALL BE OPTIONAL WITH CONTRACTOR INSOFAR THAT PROCEDURES DO NOT INFRINGE ON THE APPROVED WORK SCHEDULE OR SALVAGE REQUIREMENTS. WHERE SALVAGING IS REQUIRED, PROCEDURES SHALL BE SUCH THAT THE MAXIMUM AMOUNT OF SALVAGE WILL RESULT. MATERIALS AND EQUIPMENT TO BE SALVAGED, IF ANY, ARE LISTED BELOW.
5. DISPOSAL OF MATERIALS, EQUIPMENT, AND DEBRIS
a. MATERIALS AND EQUIPMENT TO BE SALVAGED:
MATERIAL AND EQUIPMENT TO BE SALVAGED ARE LISTED ON THE DEMOLITION PLANS. CONTRACTOR SHALL CONSULT WITH TENANT AND REVIEW THE DRAWINGS TO DETERMINE THE ITEMS TO BE SALVAGED. ALL ITEMS NOTED FOR SALVAGE SHALL BE REMOVED AS CAREFULLY AS POSSIBLE SO THAT A MINIMUM AMOUNT OF RECONDITIONING WILL BE REQUIRED FOR REUSING THE ITEMS. RECONDITIONING AND INSTALLING OF SUCH ITEMS ARE SPECIFIED IN THE DRAWINGS AND APPLICABLE SECTIONS OF THESE SPECIFICATIONS. ANY SUCH ITEMS SHALL BE PACKAGED AND PROPERLY STORED AND PROTECTED UNTIL TIME FOR THEIR USE.
b. MATERIALS AND EQUIPMENT NOT TO BE SALVAGED:
ALL MATERIALS AND EQUIPMENT NOT SCHEDULED TO BE SALVAGED INCLUDING DEBRIS, SHALL BECOME THE PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROPERTY IN A LEGAL MANNER. LOCATION OF DUMP AND LENGTH OF HAUL SHALL BE CONTRACTOR'S RESPONSIBILITY.
6. CLEAN UP
SALVAGED MATERIALS SHALL NOT BE SOLD AT THE SITE. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS RESULTING FROM DEMOLITION OPERATIONS. THE CONTRACTOR SHALL LEAVE THE PROPERTY, THE ADJACENT TENANT SPACES AND THE BUILDING IN A CLEAN CONDITION, SATISFACTORY TO LOCAL AUTHORITIES AND TENANT PROJECT MANAGER.

DIVISION III CONCRETE

A - PATCHING (WHEN REQUIRED):
1. MINIMUM 3000 PSI CONCRETE FILLER AND PATCHING WHERE EXISTING SLAB HAS BEEN REMOVED FOR UNDER SLAB CONDUITS, PLUMBING, ETC.

B - CONCRETE SLAB:
1. INSTALL MINIMUM 3000 PSI CONCRETE WITH 6" X 6" - W4 X W4 WWF AT MID LEVEL OVER 6 MIL VAPOR BARRIER (AT SLAB ON GRADE CONDITIONS OR ADHERE TO LOCAL CODE REQUIREMENTS). INSTALL CONTROL JOINTS AT MAX 200 SF.

DIVISION IV MASONRY

A - NO WORK UNDER THIS SECTION UNLESS REQUIRED FOR PROPER CUTTING AND REPAIR OF BUILDING SHELL. IN THIS EVENT, ALL WORK SHALL BE PERFORMED TO THE HIGHEST LEVELS OF QUALITY AND CRAFTSMANSHIP AND SHALL BE COORDINATED WITH LANDLORD'S REPRESENTATIVE.

DIVISION V METALS

A - METAL STUDS:
1. 20 GA MINIMUM AT NON-SALES WALLS, AT STOREFRONT OR WALLS WITH DECKS ABOVE.
2. 25 GA MINIMUM, AT 16" O.C. MAXIMUM AT TYPICAL PARTITIONS UNLESS OTHERWISE NOTED.
3. PROVIDE ALL FASTENERS, SCREWS, BOLTS, CLIPS, ANCHORS, ANGLES, BRIDGES, BRACKETS, SLEEVES, ETC., AS REQUIRED.

B - STRUCTURAL STEEL AND/OR HEAVY GAUGE METAL FRAMING:
1. INSTALL FRAMING, CONNECTION PLATES, SCREWS, BOLTS, ETC. AS SHOWN IN THE PLANS AND DETAILS.

C - PROTECTIVE CORNER GUARDS:
1. PROVIDE AND INSTALL METAL CORNER GUARDS AT ALL OUTSIDE CORNERS IN NON-SALES AREA (2" x 2" x 72").

D - REVEALS:
1. INSTALL METAL REVEALS SIZE AND LENGTH AS MAY BE INDICATED ON THE PLANS. BLOCKING OR BACKING AS REQUIRED TO SECURE SHALL BE PROVIDED.
2. PAINT OR FINISH PER PLANS.

E - EXPANSION JOINTS - INSTALL AS PER PLANS AND MFR'S RECOMMENDATIONS:
1. USG 093 FOR CEILINGS AND WALLS, AS MAY BE INDICATED IN THE DRAWINGS.
2. 100 OR 200 SERIES AS REQUIRED FOR APPLICATION (OPTIONAL 1" DEPTH) WITH ELASTOMERIC FILLER TO MATCH FINISH AS MANUFACTURED BY CONSPEC SYSTEMS INC., MUNCY, PA (717) 546-5941, (800) 833-6453.

F - UNISTRUT SPACE FRAME GRID SYSTEM AS REQUIRED FOR LIGHTING, TV MONITORS, CEILING ACCESSORIES OR MECHANICAL SYSTEMS SUSPENSION.
1. PROVIDE AND INSTALL PER MANUFACTURES SPECIFICATIONS WITH ALL ACCESSORIES REQUIRED FOR A COMPLETE JOB.
2. SUPPORT WITH THREADED RODS AND NUTS FROM STRUCTURE AS REQUIRED OR DETAILED.
3. CONTACT UNISTRUT SPACE FRAME SYSTEMS AT (630) 773-3460.

DIVISION VI WOOD & PLASTICS

A - CARPENTRY & BLOCKING:
BEFORE USING WOOD FRAMING OR BLOCKING OF ANY TYPE, CONFIRM CODE RESTRICTIONS. IF USE OF WOOD IS PERMITTED BY REQUIREMENTS, ADHERE TO THE FOLLOWING GUIDELINES:
1. USE NEW LUMBER BEARING GRADE AND TRADEMARK OF ASSOCIATION UNDER WHICH IT WAS PRODUCED. ALL MATERIALS SHOULD HAVE FACTORY EDGES AND CORNERS.
2. LAYOUT, CUT, FIT AND ERECT FRAMING FOR ROUGH AND FINISHED WORK. INSTALL BLOCKING, NAILERS, FURRING AND OTHER ROUGH AND FINISHED MATERIALS AS REQUIRED. BRACE, PLUMB AND LEVEL MEMBERS IN TRUE ALIGNMENT AND RIGIDLY SECURE IN PLACE WITH SUFFICIENT NAILS, SPIKES, SCREWS AND BOLTS AS NECESSARY.
3. FURNISH AND INSTALL ROUGH AND FINISHED PLYWOOD, FURRING, SUPPORTS, ETC.
4. FURNISH AND INSTALL ALL ROUGH HARDWARE, ANCHORS, BOLTS, ETC. AS REQUIRED FOR CARPENTRY WORK.
5. ALL EXISTING OR NEW WOOD SHALL BE FIRE RETARDANT AND MUST BE IDENTIFIED WITH A UL LABEL CERTIFYING THIS CLASSIFICATION.

B - MILLWORK:
1. RECEIVE AND INSTALL ALL PRE-FINISHED MILLWORK AND CABINETS, FIXTURES, PANELING, DOORS AND FRAMES, ETC., AS SHOWN ON DWGS. OR AS DIRECTED.
2. CUT, FIT AND INSTALL ALL MILLWORK AND SET PLUMB AND TRUE IN ACCORDANCE WITH ASSEMBLY /INSTALLATION DRAWINGS PROVIDED.
3. BACK OUT FLAT TRIM TO PREVENT WARPING. DRILL WHERE NECESSARY TO PREVENT SPLITTING.
4. CONFIRM BLOCKING REQUIREMENTS WITH VENDORS PRIOR TO CLOSING UP ALL ASSEMBLIES.
5. ALL FIXTURES ARE TO PROFESSIONALLY CLEANED.

DIVISION VII THERMAL & MOISTURE PROTECTION

A - VAPOR BARRIER:
1. PROVIDE AND INSTALL 6 MIL POLYETHYLENE BELOW ALL REQUIRED PATCH AREAS AT SLAB ON GRADE CONDITIONS AND 4 MIL POLYETHYLENE AT WALLS THAT RECEIVE BATT INSULATION.

B - ELASTOMERIC CRACK BRIDGING:
1. PROVIDE AND INSTALL ELASTOMERIC CRACK BRIDGING AS MANUFACTURED BY NATIONAL APPLIED CONSTRUCTION PRODUCTS, INC., P.O. BOX 266, CUYAHOGA FALLS, OHIO 44223 PHONE 216-928-3414, OR APPROVED EQUAL.

C - BATT INSULATION:
1. PROVIDE AND INSTALL MINIMUM R-13 FRICTION FIT, FULL BATT INSULATION AS MANUFACTURED BY OWENS-CORNING FIBERGLASS OR EQUAL WHERE INDICATED ON DRAWINGS.

D - WATERPROOF MEMBRANE:
1. PROVIDED AND INSTALL A (M) 30 MIL (MIN) WATERPROOF MEMBRANE. EXTEND A MINIMUM OF 4" UP VERTICAL SURFACES IN TOILET RMS/OR AS REQUIRED BY LANDLORD. INSTALL AS PER MANUFACTURERS SPECIFICATIONS.

E - FIRESTOPPING:
1. PROVIDE AND INSTALL UL TESTED FIRESTOPPING ASSEMBLIES AS ARE APPLICABLE FOR EACH CONDITION ENCOUNTERED. IN THE ABSENCE OF TESTED ASSEMBLIES, PROVIDE FIRESTOPPING ASSEMBLIES AS RECOMMENDED BY THE FIRESTOPPING SYSTEM MANUFACTURER'S STAFF ENGINEERS AND AS APPROVED BY AUTHORITIES HAVING JURISDICTION.
2. PROVIDE FIRERATED ENCLOSURES FOR ALL NON-PROTECTED STRUCTURAL MEMBERS AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION. ALL EXISTING SPRAY FIREPROOFING SHALL BE PATCHED AS REQUIRED TO MAINTAIN REQUIRED RATING.

DIVISION VIII DOORS & WINDOWS

A - DOORS AND HARDWARE:
1. INSTALL ALL DOORS, FRAMES AND HARDWARE AND RELATED PARTS AND MATERIALS AS INDICATED ON THE DRAWINGS.
2. HOLLOW METAL FRAMES, K.D. MINIMUM 16 GA SIZE, SHAPE AND PARTITION TYPE PER DOOR SCHEDULE.
3. LABELED DOORS WHERE REQUIRED, PROVIDE UL. LABEL DOORS AND FRAMES PER APPLICABLE STATE AND LOCAL BUILDING CODES.
4. FABRICATE AND ERECT TRUE, PLUMB AND SQUARE AS SPECIFIED AND DETAILED AND AS PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO THE DOOR SCHEDULE FOR SPECIFICATIONS.

DIVISION VIII DOORS & WINDOWS (CONT.)

B - STOREFRONT GLAZING:
1. GLAZING, 1/2" THICK CLEAR TEMPERED GLASS (OR AS INDICATED ON DRAWINGS); POLISH ALL EXPOSED EDGES.
2. PROVIDE AND INSTALL GLAZING CLIPS OR BUTTONS AS REQUIRED BY LOCAL CODE.
3. REFER TO DETAILS FOR GLAZING BASE AND HEAD CHANNELS.

C - GLASS AND GLAZING:
1. MIRRORS SHALL BE 1/4" CLEAR PLATE PROVIDED AND INSTALLED BY THE CONTRACTOR WITH CONTINUOUS CHROME J-CLIP. STYLMARK N70068 OR EQUAL, TOP AND BOTTOM (MITERED CORNERS) AND ADHESIVE RECOMMENDED BY MIRROR MANUFACTURER. SEAL ALL EDGES WITH CLEAR SILICON CAULK, ALL SIDES.

D - ACCESS DOORS:
1. PROVIDE FLUSH TYPE METAL ACCESS DOORS MIN 18" X 20", OR AS SPECIFIED ON THE DRAWINGS, MANUFACTURED FROM #14 GA STEEL, COMPLETE WITH FLUSH FLANGE TYPE FRAMES MANUFACTURED FROM #16 GA STEEL, WITH ANCHORS.
2. INSTALL ACCESS DOORS WHERE NECESSARY TO PROVIDE ACCESS TO CONCEALED VALVES, AND OTHER EQUIPMENT REQUIRING SERVICE OR INSPECTION AND AS APPROVED BY THE TENANT'S PROJECT MANAGER.
3. ACCESS DOORS SHALL BE SUITABLE FOR INSTALLATION IN THE SPECIFIED WALL AND CEILING MATERIALS.
4. ACCESS DOORS LOCATED IN FIRE-RATED WALLS, FLOORS, CEILING-FLOOR OR CEILING-ROOF ASSEMBLIES SHALL BE UL FIRE RATED LISTED AND LABELED.
5. PROVIDE KEYED LOCK AT ALL ACCESS DOORS IN COMMON AREAS.
6. FINISH TO MATCH ADJACENT SURFACES.

E - STOREFRONT CLOSURE:
1. INSTALLATION AND SUPPORT OF ROLL-UP GRILLE OR SECURITY GATE MUST COMPLY WITH LOCAL CODES.
2. REMOVE OBSTRUCTIONS THAT WILL HINDER INSTALLATION OF GRILLE. COORDINATE DELIVERY AND INSTALLATION WITH INSTALLER.
3. PROTECT GRILLE FROM DAMAGE BEFORE, DURING, AND AFTER INSTALLATION.

DIVISION IX FINISHES

A - GYPSUM DRYWALL:
1. PROVIDE AND INSTALL ALL GYPSUM DRYWALL SYSTEMS COMPLETE WITH PARTITION FRAMING, CEILING SUSPENSION SYSTEMS, AND RELATED ACCESSORIES, PARTS, MATERIALS, ETC. AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. INSTALL ALL MATERIALS PER THE MFR'S SPECIFICATIONS AND RECOMMENDATIONS.
2. GYPSUM DRYWALL: US GYPSUM 5/8" THICK FIRE CODE SHEET ROCK (TYPE "X") PANELS OF STANDARD QUALITY OR APPROVED EQUAL.
3. FASTENERS: DRYWALL SCREWS OF PROPER SIZE AND TYPE.
4. ACCESSORIES AND TRIM: U.S. GYPSUM BOARD OR GOLD BOND SYSTEM OF COMPONENTS AND PERFORATED TAPE. ALL METAL TRIM SHALL BE PERFORATED FLANGE TYPE FOR COMPOUND FINISH.

B - CEILING SYSTEMS:
1. FURNISH AND INSTALL CEILING SYSTEMS COMPLETE WITH SUSPENSION SYSTEM AND RELATED ACCESSORIES AS SHOWN ON DRAWINGS AND AS SPECIFIED.
2. ALL LIGHT GAUGE METAL FRAMING AND CEILING SUSPENSION COMPONENTS FOR SOFFITS, GYPSUM BOARD AND LAY-IN CEILINGS SHALL BE ANCHORED TO THE STRUCTURAL JOISTS AND BEAMS ONLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL FRAMING REQ'D.
3. SUSPENSION SYSTEMS SHALL BE ADEQUATE TO SUPPORT LIGHTING FIXTURES, CEILING GRILLES, DIFFUSERS AND OTHER TYPICAL CEILING ACCESSORIES. PROVIDE SYSTEM COMPONENTS FROM A SINGLE MANUFACTURER.
4. INSTALL CEILING AND SUSPENSION SYSTEMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE BUILDING CODE REQUIREMENTS. FINISH CEILING SHALL BE LEVEL WITH JOINTS, SNUG AND SQUARE, AND IN PERFECT CONDITION.
5. MATERIALS AND FINISHES
a. REFER TO REFLECTED CEILING PLAN FOR SPECIFICATION OF MATERIALS
b. REFER TO FINISH PLAN FOR SPECIFIED CEILING FINISH.
c. LEAVE ONE CASE OF CEILING TILES FOR LATER REPLACEMENT.
d. CEILING WHERE NOTED ON PLANS SHALL BE 1 HOUR RATED AND SHALL CONSIST OF CLASS "A" TILES WITH SUSPENSION GRID, HARDWARE, CLIPS, ETC. NECESSARY TO ACHIEVE RATING.

C - PAINTING, FINISHING, AND WALL COVERING:
1. PROVIDE A SATISFACTORY FINISH THROUGHOUT, UNLESS SPECIFICALLY DIRECTED OTHERWISE IN THE DRAWINGS, COVER ALL SURFACES THOROUGHLY AND EVENLY. IF THE NUMBER OF COATS SPECIFIED DOES NOT ACCOMPLISH THE INTENT, APPLY ADDITIONAL COATS OF SPECIFIED MATERIAL TO PROVIDE SATISFACTORY COVERAGE. SEE FINISH SCHEDULE FOR SPECIFICS.
2. USE ONLY THE PAINT AND RELATED MATERIALS SPECIFIED.
3. PREPARE BY CLEANING ALL SURFACES FREE OF LOOSE DIRT AND DUST. PREPARE ALL METAL SURFACES IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN SPECIFICATIONS.
4. PAINTED DRYWALL SHALL RECEIVE ONE COAT OF LATEX PRIMER AND TWO COATS OF SPECIFIED PAINT. TINT PRIMER TO APPROXIMATE SHADE OF THE FINAL COAT. TOUCH UP ALL SUCTION SPOTS OR HOT SPOTS AFTER THE APPLICATION OF THE FIRST COAT AND BEFORE APPLYING A SECOND COAT, TO PRODUCE AN EVEN RESULT IN THE FINISH COAT. DRY ALL COATS THOROUGHLY BEFORE APPLYING SUCCEEDING COATS. FOLLOW MFR'S RECOMMENDATIONS FOR RE-COAT TIME. SEAL ALL DRYWALL SURFACES BEHIND MIRRORS AND BUILT-IN COMPONENTS.
5. PUTTY ALL NAIL HOLES, COUNTER SUNK SCREWS, BOLTS, FILL CRACKS, ETC. BEFORE APPLYING FINISH.
6. SAND ALL WOOD SURFACES SMOOTH AND EVEN BEFORE APPLYING FINISH.
7. BEFORE STARTING FINISH WORK, REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES AND SIMILAR ITEMS, OR PROVIDE AMPLE PROTECTION FOR SUCH ITEMS.
8. PAINT ALL RADIATION COVERINGS, CONVECTORS, REGISTERS, LOUVERS, GRILLES, EMERGENCY LIGHTS, SPEAKERS, TRIM LIGHTS, EXPOSED PIPING, ACCESS DOORS, VENTS, FIRE EXTINGUISHER CABINETS, EQUIPMENT MOUNTING BOARDS, ETC. UNLESS OTHERWISE NOTED OR DIRECTED.
9. MAKE FINISH WORK UNIFORM OR APPROVED FINISH, SMOOTH, FREE OF RUNS, SAGS, AND DEFECTIVE BRUSHING AND CLOGGING. MAKE EDGES OF PAINT ADJOINING OTHER MATERIALS OR COLORS SHARP AND CLEAN WITHOUT OVERLAPPING.
10. WALL COVERINGS: REFER TO THE FINISH SCHEDULE AND FINISHES AS NOTED OR DRAWINGS FOR LOCATION AND EXTENT.
a. ALL MATERIAL TO BE INSTALLED BY SKILLED WORKMEN, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
b. SEAL DRYWALL BEFORE APPLICATION OF WALL COVERING WITH LATEX PRIMER.
c. WALL COVERING ADHESIVES ARE TO BE PREMIXED AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC SURFACES.
d. LEAVE FINISHED INSTALLATION FREE OF BLISTERS, WRINKLES OR OTHER DEFECTS. ALL SEAMS SHALL BE TIGHTLY CLOSED. MATCH ADJACENT STRIPS AS REQ'D, CONSISTENT WITH PATTERN SELECTED.
e. IF CLEANING IS REQUIRED, USE ONLY MATERIALS AND METHOD RECOMMENDED BY THE MANUFACTURER.
f. UNROLL AND CHECK WALL COVERING FOR DEFECTS IMMEDIATELY UPON DELIVERY.
g. DO NOT HANG DEFECTIVE WALL COVERING. ALERT TENANT'S PROJECT MANAGER OF DEFECTIVE MATERIAL AND COORDINATE APPROPRIATE ACTION.

D - FIBERGLASS REINFORCED PANELS:
1. PROVIDE AND INSTALL 1/8" FIBERGLASS REINFORCED PANELS ON SURFACES AS SHOWN ON PLANS.
2. CONSULT [illegible] FOR MANUFACTURER'S COLOR AND [illegible] INSTALL [illegible] MANUFACTURER'S RECOMMENDATIONS.

DIVISION IX FINISHES (CONT.)

E - VINYL COMPOSITION TILE:
1. REFER TO RESPONSIBILITY SCHEDULE AND FINISH SCHEDULE.
2. ALL EDGE CONDITIONS AT TRANSITIONS TO BE FLOATED UP FOR SMOOTH EVEN TRANSITION.
3. ALL SUBFLOORS TO BE MOISTURE TESTED AND RESULTS COMPARED TO MANUFACTURERS RECOMMENDED INSTALLATION GUIDELINES. ANY PROBLEMS DUE TO MOISTURE TESTING TO BE REPORTED TO THE PROJECT CONSTRUCTION MANAGER IMMEDIATELY.
4. 1/8" X 12" X 12" VINYL RESILIENT TILES WITH 4" HIGH X 1/8" THICK, TOP-SET, STRAIGHT VINYL BASE (PRE FORMED CORNERS ARE REQUIRED). SEE FINISH SCHEDULE NOTE.
5. FILL ALL CRACKS, JOINTS, ETC. IN SUB-FLOOR WITH CRACK FILLER APPROVED BY FLOORING MANUFACTURER.
6. INSTALL ALL MATERIALS WITH WEATHERPROOF TYPE ADHESIVES AS RECOMMENDED BY FLOORING MANUFACTURER FOR MATERIALS AND SURFACE INVOLVED.

F - CERAMIC TILE:
1. PROVIDE AND INSTALL CERAMIC TILE WHERE INDICATED.
2. THICKNESS OF FLOORING MATERIALS MAY VARY. PROVIDE A MORTAR BED THAT RESULTS IN A FLUSH FLOOR FINISH CONDITION.
3. INSTALL TILES USING RECOMMENDED METHODS OF THE "TILE CONTRACTORS ASSOCIATION OF AMERICA" AND THE "TILE COUNCIL OF AMERICA INC." USING THE THIN SET METHOD. TILE JOINTS ARE TO BE 1/8" WIDE.
4. CAREFULLY CLEAN ALL WORK (ALL GROUT FILM MUST BE REMOVED) AND REPLACE OR REPAIR ANY DAMAGED WORK AND LEAVE IN PERFECT CONDITION. USE NO ACID AGENT OR DEVICE THAT WILL MAR SURFACE.

G - TARKETT MODULINE TILE
1. REFER TO RESPONSIBILITY SCHEDULE AND FINISH SCHEDULE.
2. ACCLIMATION PERIOD - MATERIAL MUST ACCLIMATE TO SITE FOR A MINIMUM OF 48 HOURS PRIOR TO INSTALLATION. STAND ROLLS STRAIGHT UP AND DOWN.
3. FLOOR PREP - REMOVE OLD ADHESIVES AND GYPSUM BASED PATCHING COMPOUNDS, WITH SURFACE GRINDERS AND SCARIFIERS.
4. SKIM COAT ENTIRE FLOOR WITH 3 COATS OF ARDEX, SANDING IN BETWEEN EACH COAT ACHIEVING A FINAL THICKNESS OF 1/8".
5. ADHESIVE - USE ONLY TARKETT #900 PRESSURE SENSITIVE ADHESIVE (DRY SET) 1/32" (0.8mm) DEEP, 1/16" (1.6mm) WIDE, 1/32" (0.8mm) APART. MOISTURE TESTS RESULTS SHOULD BE BELOW THE UPPER THRESHOLD OF 3 POUNDS/1,000 SQ. FT./ 24 HOURS.
6. FLOOR PROTECTION - SUPPLY AND INSTALL ROSIN PAPER COVERED BY 1/8" MASONITE BOARDS OVER ENTIRE FLOOR TAPING ALL SEAMS.

H - NELPLAS/KYDEX PANELS
GC TO REFER TO (BUT NOT LIMITED TO) THE FOLLOWING NOTES FOR PREPARATION, INSTALLTION & MAINTENCE FOR THE NELPLAS/KYDEX PANELS:
1. GC TO USE APPROVED MASTIC ADHESIVE.
2. BOTH NESPLAS PROTECTIVE WALLCOVERING & ADHEISIVE MUST ACCLIMATE FOR AT LEAST 24 HOURS PRIOR TO INSTALLTION.
3. WALL SURFACES MUST BE FREE OF DIRT, GREASE, LOOSE PAINT & SCALE. REMOVE ANY/ALL PREEXISTING WALL COVERINGS. BEFORE APPLYING ADHEISIVE, THE WALL SURFACE SHOULD BE WIPED WITH A CLEAN WET-DAMPENED RAG TO REMOVE ANY DUST OR DEBRIS.
4. POROUS SUBSTRATE WALLS MUST BE PAINTED OR SEALED USING LATEX PRIMER BEFORE APPLYING MASTIC ADHESIVE. MASTIC ADHESIVE SHOULD BE APPLIED TO WALL SURFACE ONLY.
5. ANY ADHESIVE RESIDUE SHOULD BE REMOVED IMMEDIATELY WHILE

DIVISION X SPECIALTIES

A - PERIMETER WALL OUTRIGGER SYSTEM:
1. INSTALL PREFABRICATED/PREFINISHED PERIMETER WALL MERCHANDISING AND DISPLAY SYSTEM PER DRAWINGS.
2. PROVIDE IN-WALL BLOCKING AS NEEDED TO PROVIDE ADEQUATE SUPPORT.
3. INSTALL OVER FINISHED WALL SURFACE PER MANUFACTURER'S INSTRUCTION.

B - LAVATORY ACCESSORIES:
1. FURNISH AND INSTALL BATHROOM ACCESSORIES (SEE SCHEDULE) "BOBRICK" OR EQUAL.
2. ACCESSIBLE ACCESSORIES - PROVIDE ALL HANDRAILS, FIXTURES, ETC. REQUIRED BY CODE. CONFIRM REQUIREMENTS PRIOR TO INSTALLATION.
3. INSTALL IN-WALL BLOCKING AS NEEDED TO PROVIDE ADEQUATE SUPPORT FOR ACCESSORIES.

C - SIGNS/SIGNAGE:
1. INSTALL ALL TEMPORARY SIGNS AND BANNERS AS REQUIRED, BASED UPON INSTRUCTIONS OF TENANT'S PROJECT MANAGER.

D - AUDIO/VIDEO SYSTEMS:
1. REFER TO MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

E - STOCKROOM MOBILE/SHELVING SYSTEM:
1. CONFIRM CODE COMPLIANCE WITH TENANT PROJECT MANAGER PRIOR TO SHIPMENT AND INSTALLATION.

F - FITTING ROOM ACCESSORIES:
1. PROVIDE IN-WALL BLOCKING AS NEEDED TO PROVIDE ADEQUATE SUPPORT.
2. INSTALL OVER FINISHED WALL SURFACE PER MANUFACTURER'S INSTRUCTION.

DIVISION XI EQUIPMENT

A - THE WORK UNDER THIS SECTION IS TO BE INSTALLED ACCORDING TO SHOP DRAWINGS AND SPECIFICATIONS OF THE ASSOCIATED MANUFACTURER.

B - REFER TO RESPONSIBILITY SCHEDULE ON G1.0 FOR PARTIAL LIST OF ITEMS.

DIVISION XII FURNISHINGS

A - RECEIVE, ASSEMBLE AND PLACE OFFICE, NON-SALES EQUIPMENT, AND DISPLAY FIXTURES, IN ADDITION TO SALES FLOOR FURNISHINGS AND FIXTURES. REFER TO MANUFACTURER'S SHOP DRAWINGS AND SPECIFICATIONS.

B - FOR SALES FLOOR PERIMETER WALL SET:
(1) SPANNER BAR AND (1) SHELF ONLY SHALL BE SET PER 2'-0" PERIMETER WALL PANEL PANEL SECTION. INSTALL SPANNER BAR +/- 2'-0" FROM TOP AND SHELF +/- 2'-0" FROM BOTTOM. THE REMAINING SPANNER BARS AND SHELVES TO BE STORED IN BOXES AT THE AT THE BASE OF FIXTURE FOR FINAL INSTALLATION BY STORE OPERATION PERSONNEL.

DIVISION XIII SPECIAL CONSTRUCTION

A - NO ANTICIPATED WORK UNDER THIS SECTION. CONFIRM WITH TENANT'S PROJECT MANAGER.

DIVISION XIV CONVEYING SYSTEMS

A - NO ANTICIPATED WORK UNDER THIS SECTION. CONFIRM WITH TENANT'S PROJECT MANAGER.

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REVISIONS

NO.	DESCRIPTION	DATE

DATE:	03/12/07
SCALE:	AS SHOWN
GROSS AREA:	2,270 SQ. FT.
SALES AREA:	1,287 SQ. FT.
PROJECT # :	57284
DRAWN/CHECKED BY:	XX/XX

FOOTACTION USA

PROJECT TITLE
TYRONE SQUARE
SPACE 110
6901 Tyrone Square
St. Petersburg, FL 33710
STORE NO. 57284

SHEET TITLE
ARCHITECTURAL SPECIFICATIONS

SHEET NO. G1.1

DIVISION XV MECHANICAL

SEC. 15000 - MECHANICAL GENERAL PROVISIONS

A. SLEEVES

1. THE CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH IT'S RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2" ABOVE THE FLOOR.

2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THE FIRE RATING OF THE FLOOR OR WALL. CONFORM TO UL ASSEMBLY RATING OF FLOOR OR WALL.

3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

4. DUCT SLEEVES TO BE MINIMUM 16 GAUGE STEEL.

B. HANGERS

1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC. NECESSARY FOR THE INSTALLATION OF WORK.

2. HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING OR DUCTWORK. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST. WHERE INTERFERENCES OCCUR IN ORDER TO SUPPORT DUCTWORK OR PIPING, THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, ACCESS DOORS AND OTHER EQUIPMENT SERVICE REQUIREMENTS AND/OR OTHER TRADES. HANGER TYPES AND INSTALLATION METHODS ARE SUBJECT TO LANDLORD CRITERIA.

3. HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION.

4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED FROM ONE ANOTHER.

C. ELECTRICAL MOTORS

1. FURNISH, INSTALL AND ALIGN ALL MOTORS REQUIRED FOR THIS EQUIPMENT, UNLESS THEY ARE FACTORY INSTALLED ON THE UNIT. ALL STARTERS AND ASSOCIATED WIRING AND SAFETY SWITCHES FOR SUCH MOTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. STARTERS SHALL MEET ALL REQUIREMENTS AS DEFINED IN THE ELECTRICAL DIVISION OF THE SPECIFICATIONS.

2. DESIGN, CONSTRUCTION AND PERFORMANCE CHARACTERISTICS OF MOTORS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF LATEST NEMA, ANSI, IEEE STANDARDS FOR ELECTRICAL EQUIPMENT. ALL MOTORS SHALL BE SUITABLE FOR OPERATION ON VOLTAGE VARIATION OF PLUS OR MINUS 10%, 40 DEGREES C AMBIENT TEMPERATURE; HAVE A SERVICE FACTOR OF NOT LESS THAN 1.15.

D. LOW VOLTAGE (24 VOLT) WIRING

1. THE CONTRACTOR IS TO INSTALL ALL LOW VOLTAGE WIRING REQUIRED FOR HIS EQUIPMENT. THIS WORK INCLUDES ALL TRANSFORMERS AND DEVICES TO MAKE THIS A COMPLETE FUNCTIONAL SYSTEM.

2. ALL WORK IS TO CONFORM TO THE LATEST ADDITION N.E.C. AND TO DIVISION 16 ELECTRICAL SPECIFICATIONS.

3. ANY CONDUIT REQUIRED BY CODE OR THE LANDLORD WILL BE INSTALLED BY THE ELECTRICAL SUBCONTRACTOR.

4. FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE TO THE LANDLORD'S CRITERIA. USE A LANDLORD APPROVED ROOFING CONTRACTOR WHERE APPLICABLE.

E. RELOCATION OF EQUIPMENT

1. RELOCATION OF EXISTING WATER, GAS, WASTE, VENT, OR DRAINAGE LINES TO FACILITATE STORE DESIGN CRITERIA MUST BE INCLUDED IN BID PROPOSAL.

SEC. 15300 - SPRINKLER SYSTEMS

A. SPRINKLER SYSTEM
1. SUBMITTALS
a. PROVIDE DATA ON SPRINKLERS, VALVES, AND SPECIALTIES, INCLUDING MANUFACTURERS CATALOG INFORMATION. SUBMIT PERFORMANCE RATINGS, ROUGH-IN DETAILS, WEIGHTS, SUPPORT REQUIREMENTS, AND PIPING CONNECTIONS.
b. SHOP DRAWINGS
1. SUBMIT SHOP DRAWINGS OF FINISHED CEILING AREAS INDICATING ONLY SPRINKLER LOCATIONS COORDINATED WITH CEILING INSTALLATION.
2. INDICATE HYDRAULIC CALCULATIONS, DETAILED PIPE LAYOUT, HANGERS AND SUPPORTS, SPRINKLERS, COMPONENTS AND ACCESSORIES. INDICATE SYSTEM CONTROLS.
c. SUBMIT SHOP DRAWINGS, PRODUCT DATA, HYDRAULIC CALCULATIONS TO AUTHORITIES HAVING JURISDICTION (INCLUDING BUT NOT LIMITED TO THE FIRE MARSHALL AND LANDLORD) FOR APPROVAL.

SEC. 15400 - PLUMBING

A. PLUMBING EQUIPMENT
1. REFER TO M SHEETS FOR EQUIPMENT AND FIXTURE SCHEDULES.

B. GENERAL PIPING REQUIREMENTS

1. GENERALLY, SANITARY AND POTABLE WATER TAPS WILL BE PROVIDED BY THE LANDLORD. FIELD VERIFY EXACT CONNECTION POINTS PRIOR TO SUBMITTING BID AND NOTIFY THE TENANT'S CONSTRUCTION MANAGER IF CONDITIONS ARE NOT AS SHOWN ON THE PLANS OR AS STATED IN THE SPECIFICATIONS. CONTRACTOR MUST VERIFY THE OPERABILITY OF ENTIRE SYSTEM PRIOR TO TIE IN AS FOLLOWS:
a. SNAKE SANITARY FOR A DISTANCE OF 100 FEET AND REPORT ANY BLOCKAGE.
b. TEST WATER PRESSURE TO INSURE MINIMUM OF 50 PSI.

2. INSTALL ALL NECESSARY PIPE HANGERS, SADDLES, AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING PROVIDED AND BE SPACED AT A MAXIMUM SPAN OF 5 FEET. PROVIDE SWAY AND SEISMIC BRACING WHERE REQUIRED BY CODES.

3. ESCUTCHEONS SHALL BE CHROME PLATED, SIZE AS REQUIRED AND PLACED AT ALL PIPE PENETRATIONS AT WALLS, FLOORS, AND CEILINGS IN FINISHED AREAS.

4. FLASHING SHALL BE SEALED WATERTIGHT AND PERFORMED IN ACCORDANCE TO THE LANDLORD'S CRITERIA. USE A LANDLORD APPROVED ROOFING CONTRACTOR WHERE APPLICABLE.

C. PIPING

1. SANITARY PIPING - NO PVC ALLOWED (STORM PIPING AS REQUIRED)
a. WASTE, DRAIN AND VENT PIPING SHALL BE SERVICE WEIGHT, CAST IRON SOIL PIPE. VENT PIPING ABOVE FLOOR 2" OR SMALLER MAY BE GALVANIZED STEEL.
b. JOINTS: BELOW FLOOR SLAB - COMPRESSION TYPE PLASTIC SEAL (HUB AND SPIGOT). ABOVE FLOOR SLAB - NEOPRENE SEALING SLEEVE WITH STAINLESS STEEL SHIELD AND CLAMP WITH APPROVED NEOPRENE - BASED LUBRICANT, (HUBLESS). GALVANIZED VENT - SCREWED JOINTS WITH TEFLON TAPE ON MALE THREADS.
c. PITCH WASTE LINES 2" AND SMALLER NOT LESS THAN 1/4" PER FOOT. PITCH LARGER MAINS NOT LESS THAN 1/8" PER FOOT.
d. INSTALL A CLEANOUT AT BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET, AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY LOCAL CODE. CLEANOUTS SHALL NOT BE INSTALLED IN PUBLIC AREAS WITHOUT SPECIFIC PERMISSION BY TENANT'S CONSTRUCTION MANAGER; BUT WHERE NECESSARY, THE WALL COVERS ARE TO BE STAINLESS STEEL AND THE FLOOR COVERS ARE TO BE BRASS (FLUSH WITH FINISHED FLOOR). PROVIDE COVERS WITH INSET AREA FOR CARPETED FLOOR LOCATIONS. ALL CLEAN-OUT LOCATIONS SHALL BE APPROVED BY THE TENANT'S CONSTRUCTION MANAGER.
e. INSULATE ALL HORIZONTAL RUNS OF PIPING LOCATED IN CEILING SPACES WHEN APPLICABLE. INSULATION TO BE AS SPECIFIED FOR WATER PIPING.
f. INSULATE THE TRAP, SANITARY AND SUPPLY PIPES UNDER LAVATORY WITH 1/2" ARMSTRONG "ARMAFLEX" PIPING INSULATION OR TRUEBRO MODEL 102W "HANDI LAV GUARD" INSULATION KIT.
2. CONDENSATE PIPING
a. CONDENSATE PIPING SHALL BE TYPE "L" DRAIN COPPER TUBE WITH 50-50 TIN-ANTIMONY SOLDERED JOINTS AND WROUGHT COPPER FITTINGS WITH DIELECTRIC SEPARATION BETWEEN DISSIMILAR METALS.

3. POTABLE WATER PIPING
a. BELOW GRADE: TYPE "K", ANNEALED TEMPERED COPPER TUBE FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL JOINTS.
b. ABOVE GRADE: TYPE "L" DRAIN COPPER TUBE WITH WROUGHT COPPER FITTINGS AND 95-5 TIN-ANTIMONY SOLDER.
c. INSTALL AIR CHAMBER SHOCK ABSORBERS IN PIPING SYSTEM TO PREVENT NOISE AND DAMAGE DUE TO WATER HAMMER.
d. ALL BRANCH PIPING SYSTEM SHALL HAVE ACCESSIBLE SERVICE VALVE. PROVIDE SHUT OFF VALVES IN THE SUPPLY PIPING TO EVERY FIXTURE. PROVIDE ACCESS DOORS WHERE NECESSARY.
e. PROVIDE WATER METER AND REMOTE READER PER LANDLORD'S CRITERIA OR LOCAL UTILITIES REQUIREMENTS IF APPLICABLE. REFER TO PLANS TO DETERMINE IF WATER METER IS REQUIRED.
f. SECURE PIPE AT ANGLE STOPS.
g. PROVIDE FLEXIBLE INSERTS AT ALL PIPE PENETRATIONS THROUGH FRAMING TO KEEP PIPES FROM HITTING FRAME WHEN IN OPERATION.

4. GAS PIPING
a. PROVIDE A COMPLETE GAS PIPING SYSTEM IF APPLICABLE. REFER TO PLANS TO DETERMINE IF A GAS SYSTEM IS REQUIRED.
b. LOW PRESSURE (14" W.C. AND BELOW) GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-120, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER. MEDIUM PRESSURE (ABOVE 14" W.C.) SHALL HAVE WELDED JOINTS.
c. PROVIDE A GAS COCK, DIRT LEG, AND UNION CONNECTION TO EACH PIECE OF EQUIPMENT. PROVIDE GAS METER AND/OR REGULATOR AS REQUIRED. REGULATOR TO BE VENTED TO THE EXTERIOR.
d. PITCH PIPING AT A UNIFORM GRADE OF 1/4" IN 15 FEET UPWARD IN DIRECTION OF FLOW. SUPPORT PIPING EVERY 5 FEET. SUPPORT AS REQUIRED BY LANDLORD CRITERIA, AS DETAILED ON DRAWINGS, OR BY STANDARD INDUSTRY PRACTICE, WHICHEVER IS MORE STRINGENT.
e. GAS PIPING EXPOSED ON ROOF MUST BE PAINTED WITH RUST-INHIBITING PAINT.
f. INSTALLATION, TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES AND APPLICABLE NFPA 54 CODES.
g. CONTACT AND COORDINATE GAS SERVICE AND METER REQUIREMENTS WITH THE LOCAL GAS COMPANY AND THE MALL'S MANAGER PRIOR TO BID.

DIVISION XV MECHANICAL (CONT.)

SEC. 15400 - PLUMBING (CONT.)

C. PIPING (CONT.)

5. INSULATION
a. INSULATE ALL WATER AND INTERIOR CONDENSATE PIPING WITH 1" THICK (K=.023 @ 75 F) SNAP-ON FIBERGLASS PIPE INSULATION WITH AN ALL SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATINGS OF 50. APPROVED MANUFACTURER: MANVILLE MICRO-LOK.

6. TEST & STERILIZATION
a. LEAKAGE TESTS SHALL BE PER LOCAL CODES, MINIMUM AS FOLLOWS:
1. TEST POTABLE WATER PIPING AND CONDENSATE PIPING AT 125 PSIG FOR SIX HOURS.
2. TEST DRAIN, WASTE, VENT PIPING BY A 10' WATER COLUMN FOR TWO HOURS. ALL JOINTS SHALL BE GAS AND WATER TIGHT.
3. TEST GAS PIPING PER NFPA 54 CODES.
4. STERILIZE POTABLE HOT AND COLD WATER LINES UPON COMPLETION OF SYSTEM. STERILIZE WATER SYSTEM IN ACCORDANCE WITH LOCAL CODES.

SEC. 15700 - HEATING, VENTILATION & AIR CONDITIONING

A. HVAC EQUIPMENT

1. PRIMARY HEATING, VENTILATION AND AIR CONDITIONING UNITS
a. PRIMARY HEATING, VENTILATION, AND AIR CONDITIONING UNITS ARE TO BE BY YORK AS SCHEDULED. ALL COMPRESSORS ARE TO INCLUDE A 5-YEAR EXTENDED WARRANTY.
b. EQUALS EQUIPMENT ONLY IF NOT AVAILABLE THROUGH REASONABLE EFFORT.
c. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
d. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST HAVE A CONDENSATE DRAIN AND BE TRAPPED IN ACCORDANCE WITH MANUFACTURERS DATA. SEE DRAWINGS FOR ADDITIONAL DETAILS.
e. SECONDARY DRAIN PANS ARE REQUIRED TO BE INSTALLED BENEATH ALL INDOOR AIR CONDITIONING EQUIPMENT WITH THE EXCEPTION OF VAV BOXES. SECONDARY PANS ARE TO PROTECT ENTIRE UNIT. PROVIDE CONDENSATE PUMPS, AS REQUIRED. CONDENSATE SHALL BE DIRECTED TO MOP SINK OR AS SPECIFIED ON PLANS.

2. VARIABLE AIR VOLUME BOXES (VAV)
a. WHERE SHOWN ON DRAWINGS, PROVIDE VAV BOXES COMPLETE WITH CONTROLS, HEATING COILS (FANS AS REQUIRED). ALL DUCT CONNECTIONS FLEXIBLE DUCT/PIPE CONNECTIONS SHALL BE PROVIDED BY THE CONTRACTOR.

3. TOILET EXHAUST FANS
a. WHERE SHOWN ON DRAWINGS, PROVIDE A TOILET EXHAUST FAN UNIT COMPLETE WITH GRAVITY BACK DRAFT DAMPERS. ALL DUCTWORK, ROOF OPENINGS AND CAPS NECESSARY TO PROVIDE A COMPLETE EXHAUST SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR. REFER TO PLANS FOR APPLICABILITY.

4. BASEBOARD, CABINET, AND UNIT HEATERS
a. WHERE SHOWN ON DRAWINGS, PROVIDE ELECTRIC HEATERS COMPLETE WITH ELECTRIC HEATING COIL, CONTROLS, AND INTEGRAL THERMOSTAT.

5. INLINE PUMPS
a. WHERE SHOWN ON DRAWINGS PROVIDE AN IN-LINE CLOSE COUPLED PUMP(S), BRONZE FITTED. PUMPS SHALL BE FURNISHED WITH BRONZE CASE WEARING RINGS, BRONZE SHAFT SLEEVE AND MECHANICAL SHAFT SEAL RATED FOR PUMPS TO BE SO CONSTRUCTED THAT THEY MAY BE MOUNTED IN A HORIZONTAL OR VERTICAL PIPE LINE. MOTOR TO BE 1750 RPM UNLESS NOTED OTHERWISE.

6. VIBRATION ISOLATION DEVICES
a. VIBRATION ISOLATION DEVICES SHALL BE PROVIDED IN ALL SUPPORTS BETWEEN VIBRATING EQUIPMENT (FANS, ROOFTOP UNITS, AIR HANDLERS, FAN POWERED VAV BOXES, ETC.) AND STRUCTURE.
b. VIBRATING EQUIPMENT HUNG FROM STRUCTURE SHALL BE ISOLATED WITH RUBBER AND SPRING DEVICES. VIBRATING EQUIPMENT SUPPORTED FROM FLOOR OR DECK SHALL BE ISOLATED WITH HOUSED SPRING MOUNT DEVICES.
c. EXAMINE DEAD LOAD AND OPERATING LOAD CONDITIONS WHEN SELECTING DEVICES. ADJUST FOR PROPER ALIGNMENT AND LOADING. AVOID "GROUNDING" THE ISOLATOR.
d. CHECK HANGER ROD SIZE FOR ALLOWABLE LOADS AT THE ISOLATING DEVICE AND AT THE UPPER AND LOWER ATTACHMENTS TO STRUCTURES, DUCTS, EQUIPMENT, ETC.
e. CONSULT MANUFACTURER FOR APPLICATION DATA.

7. CURBS AND STEEL FRAMING (OR SUPPORT)
a. THIS CONTRACTOR WILL PROVIDE ALL NECESSARY CURBS AND STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT AS DESCRIBED OR IMPLIED ON THE DRAWINGS. CURBS SHALL BE A MINIMUM OF 14" HIGH, OF THE SAME MANUFACTURER OF THE EQUIPMENT SUPPORTED. INSULATE UNDER THE COMPRESSOR SECTION TO PREVENT CONDENSATION. ALL CURBS MUST BE INSTALLED SO THAT TOP OF CURBS ARE "DEAD" LEVEL. ALL PENETRATIONS OF EXISTING STRUCTURE SHALL BE DONE IN ACCORDANCE TO THE LANDLORD'S GUIDELINES AT THIS CONTRACTOR'S EXPENSE.

8. METAL DUCTWORK
a. NO FIBERGLASS DUCT ALLOWED.
b. NO DUCTWORK SHALL BE FABRICATED PRIOR TO APPROVAL BY THE TENANT'S CONSTRUCTION MANAGER. SIGNIFICANT DEVIATIONS FROM DESIGN MUST BE APPROVED BY TENANT'S CONSTRUCTION MANAGER PRIOR TO FABRICATION OR INSTALLATION. ALL DUCT MAINS ARE TO BE RECTANGULAR UNLESS NOTES OTHERWISE. ALL DUCT BRANCHES TO DIFFUSERS ARE TO BE ROUND RIGID DUCT. (FLEXIBLE DUCT CONNECTIONS TO THE DIFFUSER ARE NOT TO EXCEED 5'-0".)
c. EXCEPT AS OTHERWISE INDICATED, FABRICATE AND INSTALL RECTANGULAR DUCTS WITH GALVANIZED SHEET STEEL, IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" OF THE LATEST EDITION. CONFORM TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS.
d. EXCEPT WHERE OTHERWISE INDICATED, CONSTRUCT DUCT SYSTEMS TO THE FOLLOWING PRESSURE CLASSIFICATIONS. (VERIFY WHETHER RETURN OR EXHAUST DUCT IS POSITIVE OR NEGATIVE PRESSURE)
1. SUPPLY DUCTS: 2 INCHES WATER GAUGE, POSITIVE PRESSURE.
2. RETURN AND EXHAUST DUCTS: 2 INCHES WATER GAUGE, NEGATIVE PRESSURE. PRESSURE TEST DUCTS FOR LEAKAGE. REMAKE LEAKING JOINTS AND APPLY SEALANTS AS REQUIRED TO FABRICATE A SYSTEM THAT DOES NOT EXCEED 5% LEAKAGE OR LESS AS STATED BY PRESSURE CLASS RATINGS IN SMACNA STANDARDS.
e. AS A MINIMUM, CROSSBREAK ALL FLAT SURFACES OR REINFORCE WITH A BEAD APPROXIMATELY 3/8" WIDE X 3/16" DEEP ON 12" CENTERS TO PREVENT VIBRATIONS.
f. INSTALL DOUBLE THICKNESS TURNING VANES IN ALL RIGHT ANGLE ELBOWS.
g. INSTALL RIGID ROUND AND RECTANGULAR METAL DUCT WITH SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS. SUPPORT HORIZONTAL DUCTS WITHIN 2 FEET OF EACH ELBOW AND WITHIN 4 FEET OF EACH BRANCH INTERSECTION USING DOUBLE STRAP HANGERS ON EACH SIDE OF FITTING. SUPPORT VERTICAL DUCTS AT A MAXIMUM INTERVAL OF 16 FEET AND AT EACH FLOOR. NO WOOD SHALL BE USED TO SUPPORT OR BRACE DUCTS. PROVIDE SWAY AND SEISMIC BRACING AS REQUIRED BY STATE AND LOCAL CODES OR BY LANDLORD.
h. WHERE DUCTS PASS THROUGH ROOFS AND FLOORS PROVIDE AS MINIMUM 1-1/2"x1-1/2"x1/8" STEEL ANGLE FRAMES AT EACH SIDE OF OPENING. THE ANNULAR SPACE BETWEEN DUCT AND ANGLE FRAMES SHALL BE CAULKED WITH SILICONE SEALANT OR FIREPROOFED AS REQUIRED BY ASSEMBLY FIRE RATING.
i. ALL TRAVERSE JOINTS AND SEAMS IN SUPPLY AIR DUCT SHALL BE SEALED AIR TIGHT WITH DAP CMC DUCT SEALER. JOINTS ALSO SHALL BE RIVETED OR CONNECTED WITH SHEET METAL SCREWS.
j. SOFT ELASTOMER BUTYL GASKET WITH ADHESIVE BACKING SHALL BE USED TO SEAL FLANGED JOINTS.
k. DUCT TRANSITIONS SHALL NOT EXCEED 30 DEGREES SLOPE EXCEPT AS SPECIFICALLY NOTED OTHERWISE.
l. PROVIDE ACCESS TO ALL MOTORIZED DAMPERS, FIRE DAMPERS, CONTROLS, AND OTHER ITEMS IN DUCTWORK THAT REQUIRE SERVICE OR INSPECTION. IF THE ACCESS PANEL LOCATION IS EXPOSED TO THE SALES AREA, IT MUST BE APPROVED BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION. LAY-IN SUPPLY AND RETURN AIR DIFFUSERS, GRILLES AND REGISTERS WITH PLASTER FRAMES MAY BE USED AS ACCESS LOCATIONS.
m. FLEXIBLE CONNECTIONS
1. FLEXIBLE COLLARS SHALL BE PROVIDED IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS, ROOFTOP UNITS, AIR HANDLERS, FAN POWERED VAV BOXES, ETC.) AND DUCTS OR CASINGS. ALSO, PROVIDE FLEXIBLE CONNECTIONS WHERE DUCTS CROSS BUILDING EXPANSION JOINTS.
2. FLEXIBLE CONNECTIONS SHALL CONSTRUCTED OF NEOPRENE-COATED FLAMEPROOF FABRIC. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR MOVEMENT AND PREVENT THE TRANSMISSION OF VIBRATION.
3. FLEXIBLE CONNECTION IS TO BE RATED FOR THE OPERATING PRESSURE OF THE SYSTEM.
n. FIRE DAMPERS
1. PROVIDE PRIMARY FIRE DAMPERS WHERE INDICATED OR REQUIRED BY CODES. DAMPERS SHALL BE DESIGNED FOR HORIZONTAL OR VERTICAL FLOW OF AIR AS REQUIRED. FIRE DAMPERS SHALL BE UL LABELED.
2. FIRE DAMPERS SHALL HAVE THE BLADES OUT OF THE AIRSTREAM AND A 165°F FUSIBLE LINK, TYPE A, AS MINIMUM.
3. PROVIDE ALL NECESSARY FRAMING AND SLEEVES FOR DAMPER MOUNTING PER UL AND CODE REQUIREMENTS.
4. PROVIDE DUCT ACCESS DOORS IN AN ACCESSABLE LOCATION FOR ALL FIRE DAMPERS. DOOR IS TO BE 20 GA GALVANIZED DOOR WITH QUICK-OPENING LATCH AND PIANO HINGE.
o. FLEXIBLE AIR DUCT
1. FLEXIBLE AIR DUCT SHALL BE 1" INSULATED CLASS I AND RATED FOR THE OPERATING PRESSURE OF THE SYSTEM. DUCT CONSTRUCTION MATERIAL (PLASTIC, CLOTH, ALUMINUM) MUST ADHERE TO LOCAL CODES AND LANDLORD'S REQUIREMENTS AND BE INCLUDED AS SUCH IN THE BID.
2. FLEXIBLE AIR DUCT MAY ONLY BE USED IN VERTICAL APPLICATIONS WITH PRIOR APPROVAL FROM TENANT'S CONSTRUCTION MANAGER.
3. FLEXIBLE DUCT SHALL NOT EXTEND OVER 5'-0" IN LENGTH AT ANY ONE LOCATION.
p. SUPPLY AIR TAKE-OFF FITTINGS
1. PROVIDE CONICAL OR "BELL-MOUTH" TAKE-OFFS FROM MAIN DUCTWORK TO ROUND BRANCHES. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE 45° RECTANGULAR TAKE-OFFS FROM MAIN DUCTWORK TO RECTANGULAR BRANCHES.
q. DAMPERS
1. PROVIDE MANUAL LOCKING QUADRANT VOLUME CONTROL DAMPERS WITH HANDLE OPERATORS IN EACH BRANCH DUCT AND AS SHOWN ON PLANS TO FACILITATE AIR BALANCING.
2. WHERE ACCESS TO BALANCING DAMPER IS RESTRICTED, YOUNG'S REGULATORS SHALL BE USED.
3. ALL RECTANGULAR DAMPERS IN OUTSIDE AIR, RELIEF AIR, OR RETURN AIR DUCTS ARE TO BE OF OPPOSED BLADE TYPE. ALL OUTSIDE AIR DUCT DAMPERS MUST ALSO BE OF THE LOW LEAKAGE TYPE.
4. ALL MOTORIZED DAMPERS NOT FURNISHED WITH EQUIPMENT ARE TO BE HONEYWELL DAMPERS.
r. DIFFUSERS, GRILLES AND REGISTERS
1. PROVIDE DIFFUSERS GRILLES AND REGISTERS AS SCHEDULED. DEVICES TO BE COMPLETE WITH DAMPERS FRAMES AND ALL ACCESSORIES. FINISH AS INDICATED.
2. INSTALL ALL AIR DEVICES AS LOCATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
3. APPROVED MANUFACTURERS: TITUS IS SPECIFIED, EQUALS BY METALAIRE OR KRUEGER IS ACCEPTABLE.
s. MEDIUM PRESSURE DUCT
1. WHERE DUCTWORK IS SPECIFICALLY NOTED AS MEDIUM PRESSURE, IT SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS FOR A PRESSURE RATING OF 3 INCHES WATER COLUMN MINIMUM OR LARGER AS REQUIRED BY LANDLORD.
2. ALL GAUGES AND REINFORCEMENT MUST MEET WITH THE LATEST EDITION OF SMACNA STANDARDS FOR MEDIUM PRESSURE DUCT AND WITH THE LANDLORD'S CRITERIA.
3. ALL OTHER ITEMS FROM METAL DUCTWORK SPECIFICATION SECTION APPLY TO THIS SECTION.

DIVISION XV MECHANICAL (CONT.)

SEC. 15700 - HEATING, VENTILATION & AIR CONDITIONING (CONT.)

8. METAL DUCTWORK (CONT.)
t. DUCTWORK INSULATION
1. INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A.
2. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INSULATE SUPPLY AND RETURN AIR RECTANGULAR DUCTWORK WHERE SHOWN ON PLAN. DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 1-1/2 LB. DENSITY LINER (K=.026 @ 75°F). LINER IS TO HAVE A COATED SURFACE EXPOSED TO AIRSTREAM TO PREVENT EROSION. APPLY ADHESIVES AND MECHANICAL FASTENERS AS RECOMMENDED BY SMACNA AND THE MANUFACTURER TO PREVENT LINER SEPARATION FROM THE DUCT. ALL TRANSVERSE EDGES TO BE COATED WITH ADHESIVE.
3. ALL ROUND AND OUTSIDE AIR DUCTWORK ABOVE THE CEILING SHALL BE EXTERNALLY INSULATED WITH A MINIMUM OF 1" THICK, 1-1/2 LB. DENSITY (R-5.6) DUCT WRAP WITH VAPOR BARRIER. VAPOR BARRIER IS TO BE MAINTAINED THROUGHOUT DUCT SYSTEM. ALL JOINTS MUST BE TAPED SO THAT NO INSULATION FIBER IS VISIBLE. EXTEND DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR PENETRATIONS.
4. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAT 50 WHEN TESTED IN ACCORDANCE WITH ASTM C 411, OR AS REQUIRED BY LOCAL CODES.
u. SYSTEM CLEANOUT
1. DUCTWORK AND AIR HANDLING EQUIPMENT IS TO BE CLEANED OUT AND BLOWN OUT BEFORE PAINTING IS STARTED BY THE GENERAL CONTRACTOR.
2. FILTERS MUST BE IN UNITS AT ANY TIME FANS ARE OPERATED.

9. HYDRONIC PIPING
a. PROVIDE A COMPLETE HYDRONIC PIPING SYSTEM IF APPLICABLE. REFER TO PLANS TO DETERMINE IF A HYDRONIC SYSTEM IS REQUIRED.
b. HYDRONIC PIPING FOR CHILLED WATER AND/OR HEATING WATER AND/OR CONDENSER WATER SHALL BE ASTM A-120, SCHEDULE 40, ERW, BLACK STEEL PIPE WITH PLAIN ENDS. INSTALL STEEL PIPE WITH WELDED JOINTS WHERE PIPE IS 2-1/2 INCH AND LARGER. INSTALL STEEL PIPE WITH THREADED JOINTS AND FITTINGS OR INSTALL TYPE "K" ANNEALED TEMPERED COPPER TUBE WITH 95/5 SILFOS JOINTS FOR 2 INCH AND SMALLER PIPE. PROVIDE DIELECTRIC UNIONS BETWEEN DISSIMILAR METALS. ALL PIPING SHALL BE IN STRICT CONFORMANCE WITH ASTM, ASA, AND LANDLORD'S REQUIREMENTS, WHICHEVER IS MOST STRINGENT. UNIONS OR FLANGES MUST BE USED AT EQUIPMENT CONNECTIONS WHERE SERVICE OR REMOVAL MAY BE REQUIRED.
c. ALL PIPING AND EQUIPMENT SHALL BE PRESSURE TESTED WITHOUT LEAKAGE AT A MINIMUM PRESSURE OF 125 PSI.
d. ALL HYDRONIC PIPING AND EQUIPMENT CONNECTED TO THE HVAC PIPING SYSTEM SHALL BE CLEANED AND FLUSHED. REMOVE, CLEAN, AND REPLACE STRAINER SCREENS. FILL TENANT'S SYSTEM WITH DOMESTIC WATER AND VENT ALL PIPING AND EQUIPMENT PRIOR TO CONNECTION TO THE LANDLORD'S SYSTEM. CONTRACTOR SHALL NOT FILL TENANT'S SYSTEM WITH WATER FROM THE LANDLORD'S SYSTEM UNLESS SPECIFICALLY INSTRUCTED TO DO SO FROM THE LANDLORD'S FIELD REPRESENTATIVE.
e. PRIOR TO CONNECTION TO THE LANDLORD'S SYSTEM, CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION FROM THE LANDLORD'S FIELD REPRESENTATIVE, THAT ALL TESTING, FLUSHING, AND PROPER FILLING OF THE TENANT'S SYSTEM HAS BEEN COMPLETED IN ACCORDANCE TO THE LANDLORD'S REQUIREMENTS AND THAT THE TENANT'S SYSTEM IS READY TO BE CONNECTED TO THE LANDLORD'S SYSTEM.
f. VALVES
1. GATE VALVES, 2-INCH AND SMALLER: CLASS 150, BODY AND UNION BONNET OF ASTM B 62 CAST BRONZE WITH THREADED OR SOLDER ENDS, INTEGRAL SEAT, RENEWABLE SOLID BRONZE WEDGE DISC, RISING STEM, SCREWED BONNET AND RE-PACKABLE UNDER PRESSURE. BALL VALVES ARE ACCEPTED AS AN EQUAL SUBSTITUTION.
2. GATE VALVES, 2-1/2 INCH AND LARGER: CLASS 125 CAST IRON BODY, RENEWABLE BRONZE SEATS AND SOLID WEDGE DISC, RISING STEM, FLANGED ENDS, AND RE-PACKABLE UNDER PRESSURE.
3. SWING CHECK VALVES, 2-INCH AND SMALLER: CLASS 150, CAST BRONZE BODY AND CAP CONFORMING TO ASTM B 62 WITH HORIZONTAL SWING, Y-PATTERN, RENEWABLE BRONZE DISC, AND HAVING THREADED OR SOLDERED ENDS.
4. SWING CHECK VALVE, 2-1/2 INCH AND LARGER: CLASS 125 CAST IRON BODY AND BOLTED CAP, HORIZONTAL SWING, RENEWABLE BRONZE DISC, FLANGED ENDS AND CAPABLE OF BEING REFITTED WHILE THE VALVE REMAINS IN THE LINE.
5. COMBINATION BALANCING AND SHUT-OFF VALVES: BELL & GOSSETT CIRCUIT SETTER WITH LOCKING SETPOINT. A CIRCUIT SETTER BALANCE WHEEL MUST BE INCLUDED WITH O & M MANUAL.
6. FLOW METER: BELL AND GOSSETT THERMOFLO INDICATOR MODEL TFI.
g. PIPING SPECIALTIES
1. PRESSURE/TEMPERATURE TEST PLUGS (PETE'S PLUG): 1/4 INCH NPT FITTINGS TO RECEIVE EITHER A TEMPERATURE OR PRESSURE PROBE, 1/8 INCH OD. FITTING AND CAPS SHALL BE BRASS WITH VALVE CORE OF NORDEL, RATED AT 400 PSIG, 0° TO 200°F.
2. STRAINERS - "Y" PATTERN STRAINERS, 125 PSIG, CAST IRON BODY WITH PERFORATED STAINLESS STEEL SCREEN, THREADED FOR 2 INCHES AND SMALLER, FLANGED FOR 2-1/2 INCHES AND LARGER. SCREEN OPENING SIZE AT 0.033 INCH FOR HEATING AND 1/8 INCH FOR CHILLED OR CONDENSER WATER. PROVIDE WITH BLOWDOWN VALVE WITH HOSE END FITTING.
3. THERMOSTATS - "LIGHTSTAT" MODEL TM-AVL, AUTOMATIC SETBACK, TWO STAGE HEAT, TWO STAGE COOLING THERMOSTAT. THERMOSTAT SHALL BE FULLY COMPATIBLE WITH HVAC UNIT USED FOR PROJECT.
4. MANUAL AIR VENTS - 1/8" COIN-OPERATED VENT. PROVIDE AN AIR CHAMBER CONSISTING OF A 3/4" NIPPLE AND BUSHINGS.
h. GENERAL INSTALLATION
1. INSTALL WATER MAINS WITHOUT PITCH. USE ECCENTRIC REDUCING COUPLINGS AT CHANGES IN SIZE WITH THE TOP OF PIPES AT SAME ELEVATION. MAKE CHANGES IN DIRECTION WITH FITTINGS.
2. BRANCHES TO UNITS BELOW MAINS TO BE TAKEN FROM BOTTOM OF MAINS AT A 45 DEGREE ANGLE, PITCH DOWNWARD TOWARD UNITS. BRANCHES TO UNITS ABOVE MAINS TO BE TAKEN FROM TOP OF MAINS AT A 45 DEGREE ANGLE PITCHED UPWARD TOWARDS UNITS. PITCH NOT LESS THAN 1" TO 10 FEET.
3. HANGERS SHALL BE SIZED AND INSTALLED FOR THE OUTSIDE DIAMETER OF THE INSULATED PIPE. INSTALL 6" LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND PIPE INSULATION.
4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DIELECTRICALLY SEPARATED FROM ONE ANOTHER.
5. SEE PLANS FOR APPLICABLE DETAILS.
6. ALL PRESSURE PIPING SYSTEMS INSTALLED SHALL CONFORM TO THE REQUIREMENTS OF THE STATE PIPING AND WELDING CODES.
7. INSTALL VALVES AT LOW POINTS FOR DRAINING EACH SYSTEM AND INSTALL MANUAL VENTS AT ALL HIGH POINTS OF EQUIPMENT AND PIPING IN THE SYSTEM TO PROPERLY REMOVE ENTRAPPED AIR.
i. INSULATION
1. ALL HYDRONIC PIPING FOR CHILLED WATER AND/OR HEATING WATER, VALVES, FITTINGS, AND ACCESSORIES SHALL BE INSULATED. FOR PIPE SIZES UP TO 2 INCHES, INSULATE WITH 1 INCH THICK (K=.023 @ 75°F) FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND VAPOR BARRIER. FOR PIPE SIZES 2-1/2 INCHES AND LARGER, INSULATE WITH 1-1/2 INCH THICK (K=.023 @ 75°F) FIBERGLASS INSULATION WITH ALL SERVICE JACKET AND VAPOR BARRIER.
2. INSULATION AT ALL HANGERS FOR PIPING 2-1/2 INCHES AND LARGER SHALL BE HARD AND NON-COMPRESSIBLE.
3. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAT 50 TO CONFORM WITH THE REQUIREMENTS OF THE NFPA.

10. REFRIGERANT PIPING
a. PROVIDE A COMPLETE REFRIGERANT PIPING SYSTEM BETWEEN INDOOR FAN UNITS AND OUTDOOR CONDENSING UNITS, IF APPLICABLE. PROVIDE OIL, REFRIGERANT CHARGE AND TEST SYSTEM. REFER TO PLANS TO DETERMINE IF A REFRIGERANT PIPING SYSTEM IS REQUIRED.
b. MATERIALS
1. REFRIGERANT PIPING SHALL BE TYPE "L" DRAWN COPPER TUBING (ASTM B88), WROUGHT COPPER OR CAST BRONZE FITTINGS (ANSI B16.22) WITH SILFOS-5 SOLDERED JOINTS.
2. SERVICE VALVES, CHARGING PORTS, FILTER-DRIER, SIGHT GLASS, AND A THERMOSTATIC EXPANSION VALVE (TXV) SHALL BE INSTALLED FOR EACH SYSTEM AS A MINIMUM BODY.
c. INSTALLATION
1. SIZE LINES WITH ADEQUATE LIFT TRAPS AND DOUBLE SUCTION RISERS AS NECESSARY TO MEET THE NEEDS OF EQUIPMENT SPECIFIED, FIELD CONDITIONS, AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
2. PRESSURE TEST FOR LEAKS WITH AN INERT GAS AT 250 PSIG. REDO LEAKING JOINTS AND RETEST UNTIL SYSTEM IS TIGHT. EVACUATE GAS AND CHARGE SYSTEM. RE-TEST SYSTEM AND CHECK FOR LEAKS WITH HALIDE LEAK DETECTOR. ALL LEAKING JOINTS MUST BE COMPLETELY RE-DONE UNTIL NO LEAKS EXIST.
3. UPON COMPLETION OF TESTING, BUT BEFORE INSULATION IS APPLIED, PIPING MUST BE INSPECTED BY A REPRESENTATIVE OF THE LOCAL GOVERNING AUTHORITY AS NECESSARY.
4. REFRIGERANT LINES SHALL BE INSULATED WITH 1 INCH THICK RUBATEX OR ARMSTRONG REFRIGERANT PIPE INSULATION IN ACCORDANCE WITH INDUSTRY STANDARDS.

SEC. 15950 - TESTING, ADJUSTING & BALANCING

A. SYSTEM TESTING, ADJUSTING, AND BALANCING

1. TESTING, ADJUSTING AND BALANCING OF ALL WORK SHALL BE MADE BY AN INDEPENDENT CONTRACTOR WHO IS CURRENTLY LICENSED ASSOCIATED AIR BALANCING COUNCIL (AABC) OR NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) BALANCING CONTRACTOR. NO OTHER BALANCE REPORTS WILL BE REVIEWED OR ACCEPTED. ALL BALANCING WORK MUST BE COMPLETE AND DONE IN ACCORDANCE WITH THE MOST RECENT STANDARDS OF THEIR SOCIETY. PAYMENT OF ALL COSTS FOR TESTING SHALL BE MADE BY THE HVAC CONTRACTOR.

2. THE HVAC CONTRACTOR SHALL INSTALL NEW FILTERS IN ALL UNITS PRIOR TO THE AIR BALANCE. THE COMPLETE AIR BALANCE SHALL TAKE PLACE WITH OUTSIDE AIR DAMPERS IN MINIMUM POSITION.

3. BALANCE AIR AND WATER QUANTITIES TO WITHIN ±5% OF THAT INDICATED ON THE DRAWINGS. ANY REQUIRED CHANGES IN SHEAVES, BELTS, PULLEYS, OR THE ADDITION OF DAMPERS REQUIRED TO ACHIEVE SPECIFIED FLOW RATES SHALL BE PERFORMED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST TO THE TENANT.

4. THE BALANCE REPORT SHALL INCLUDE AS A MINIMUM THE FOLLOWING INFORMATION:
a. AABC OR NEBB CERTIFICATION NUMBER AND SIGNATURE OF BALANCING CONTRACTOR.
b. INSTRUMENTATION LIST WITH LAST CALIBRATION DATES.
c. MAKE AND MODEL NUMBERS OF ALL HVAC EQUIPMENT TESTED.
d. AIR CFM AND STATIC PRESSURE READINGS (DISCHARGE AND SUCTION) AS MEASURED BY PITOT TUBE DUCT TRAVERSE AT THE UNIT.
e. MOTOR NAMEPLATE DATA WITH ACTUAL FIELD VOLTAGE AND AMPERAGE READINGS FOR EACH LEG.
f. MOTOR AND FAN RPMS, SHEAVE SIZES AND BELT SIZES.
g. OUTSIDE, RETURN, MIXED AND SUPPLY AIR TEMPERATURES AT FULL COOLING.
h. WATER BALANCE DATA INCLUDING GPM WITH INLET AND OUTLET TEMPERATURE AND PRESSURE READINGS (WHERE APPLICABLE).
i. MAKE AND MODEL NUMBERS OF ALL AIR DISTRIBUTION EQUIPMENT.
j. FINAL BALANCED AIR VOLUMES AT ALL OUTLETS (INCLUDING RETURNS WHERE DUCTED).
k. INDEXED PLAN WITH DIFFUSER AND RETURN LOCATIONS.

5. ALL CONTROL SEQUENCES SHALL BE TESTED (INTERLOCKED EQUIPMENT, SMOKE DETECTORS, SMOKE EVACUATION ECONOMIZER, ETC.) AND OPERATING STATUS RECORDED IN THE REPORT.

6. THREE COPIES OF THE BALANCE REPORT SHALL BE SUBMITTED THROUGH THE GENERAL CONTRACTOR TO THE TENANT'S CONSTRUCTION MANAGER FOR APPROVAL.

DIVISION XV MECHANICAL (CONT.)

SEC. 15950 - TESTING, ADJUSTING & BALANCING (CONT.)

A. SYSTEM TESTING, ADJUSTING, AND BALANCING (CONT.)

7. THE BALANCING CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTING AND BALANCING FUNCTIONS REQUIRED FOR THE SYSTEM DESIGNED IN THESE DRAWINGS. THE BALANCING CONTRACTOR SHALL RECHECK ANY ITEMS THAT THE TENANT DEEMS NECESSARY AT NO ADDITIONAL COST TO THE TENANT.

8. FINAL BALANCE REPORT SHALL BE INCLUDED IN THE OPERATION & MAINTENANCE MANUALS.

B. FINAL HVAC INSPECTION

1. ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE, THE TENANT SHALL HAVE THE RIGHT TO AN INDEPENDENT HVAC CONTRACTOR INSPECT THE FINISHED HVAC INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODES. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE INDEPENDENT HVAC CONTRACTOR UP TO PLANS AND SPECIFICATION REQUIREMENTS AT NO COST TO TENANT.

DIVISION XVI ELECTRICAL

SEC. 16050 - BASIC ELECTRICAL MATERIALS & METHODS

A. WIRE DEVICES

1. COLOR OF WIRING DEVICES AND COVERPLATES SHALL BE SELECTED BY ARCHITECT (SEE PLAN NOTES FOR ADDITIONAL INFORMATION)
a. RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO HUBBELL 5362.
b. SWITCHES SHALL BE 20 AMP SPECIFICATION GRADE, RATED AT 120 OR 277 VOLT AS REQUIRED.
c. SPECIAL DEVICES SHALL BE A SPECIFICATION GRADE.
d. ALL DEVICE COVERPLATES SHALL BE STAINLESS STEEL.
e. FLOOR BOXES TO BE HUBBELL TF-3521/29 WITH B-3505 BRASS COVER (OR EQUAL BY "STEEL CITY") AND HUBBELL 5362 RECEPTACLE (UNLESS OTHERWISE NOTED).
f. EQUAL BY ARROW-HART, GENERAL ELECTRIC, BRYANT, PASS & SEYMOUR, OR SIERRA.

B. PANEL BOARDS AND SAFETY SWITCHES

1. PROVIDE BRANCH CIRCUIT PANELS WHICH SHALL BE OF THE BOLTED CIRCUIT BREAKER TYPE WITH SOLID COPPER BUSSING FULL SIZED NEUTRAL, 25% GROUND BUSSING, OVERALL HINGED/LOCKABLE DOOR, AND TYPEWRITTEN DIRECTORY INSIDE DOOR. ALL SERVICE ENTRANCE EQUIPMENT SHALL BEAR THE MANUFACTURERS LABEL WHICH SHALL STATE THAT THE EQUIPMENT IS RATED FOR SERVICE ENTRANCE APPLICATION IN ACCORDANCE WITH N.E.C. 230-10. LOAD BALANCE ALL ELECTRICAL PHASES AT PANELS AND SWITCHBOARDS. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP TYPE. WHEN USED AS SWITCHES IN 120V AND 277V LIGHTING CIRCUITS, FURNISH TYPE "SWD" BREAKERS IN ACCORDANCE WITH N.E.C. 240-83B, SQUARE D OR EQUAL BY GOULD ITE, CUTLER HAMMER, WESTINGHOUSE, CHALLENGER, FEDERAL PACIFIC OR GENERAL ELECTRIC (OR APPROVED EQUAL).

2. PROVIDE SAFETY AND DISCONNECT SWITCHES, FUSED OR NONFUSED, AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. (FUSES AS MANUFACTURED BY BUSSMAN, CHASE SHAWMUT, WESTINGHOUSE, ECONOMY FUSE CO., OR LITTLE FUSE CO. ARE ACCEPTABLE.) DISCONNECT SWITCHES THAT ARE INSTALLED AT AIR CONDITIONING EQUIPMENT, HEAT PUMPS, ETC. SHALL BE FUSED IN ACCORDANCE WITH THE EQUIPMENT'S NAME PLATE REQUIREMENTS PER N.E.C. 440-21 & 110-3B.
SWITCHES SHALL BE HEAVY DUTY, QUICK MAKE/QUICK BREAK TYPE, FUSIBLE OR NON-FUSIBLE, WEATHERPROOF AS INDICATED ON THE DRAWINGS, OR AS REQUIRED BY LOCAL CODES. LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE D, GOULD ITE, CHALLENGER, CUTLER HAMMER, WESTINGHOUSE, FEDERAL PACIFIC, OR GENERAL ELECTRIC (OR APPROVED EQUAL).

3. MANUAL MOTOR STARTERS WITH OVERLOAD PROTECTION MAY BE USED FOR FRACTIONAL HORSEPOWER MOTORS THAT DO NOT REQUIRE AUXILIARY CONTROL. SINGLE PHASE STARTERS SHALL BE SQUARE D OR EQUAL. THREE PHASE STARTERS SHALL BE PROVIDED WITH OVERLOAD DEVICE IN EACH PHASE MATCHED TO MOTOR NAMEPLATE RATING. MAGNETIC MOTOR STARTERS (MINIMUM SIZE "1") SHALL BE USED FOR ALL SINGLE PHASE AND THREE PHASE MOTORS RATED ABOVE 1/2 HP OR THAT REQUIRED AUXILIARY CONTROL. PROVIDE CONTROL DEVICES (CONTACTS, TRANSFORMERS, ETC.) IN STARTERS AS REQUIRED FOR INTERLOCKS, COORDINATE WITH MECHANICAL AND/OR TEMPERATURE CONTROL CONTRACTORS.
COMBINATION STARTERS, WHEN USED, SHALL CONTAIN FUSIBLE SWITCHES.

C. BOXES

1. OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL KNOCKOUT.

2. JUNCTION PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL CODE GAUGE SIZE.

3. INSTALL BOXES RIGIDLY ON BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE SUITABLE/PROPER BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF WALLS ETC. ALL OUTLET BOXES TO HAVE SUITABLE BLOCKING BEHIND THEM TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.

4. WHERE A 277 VOLT LIGHT SWITCH IS GANGED WITH A 120 VOLT RECEPTACLE PROVIDE A SUITABLE DIVIDER OR SEPARATE JUNCTION BOXES IN ACCORDANCE WITH NEC AND LOCAL CODES.

D. STEP-DOWN TRANSFORMER

1. PROVIDE A DRY-TYPE TRANSFORMER OF THE ENCLOSED VENTILATED TYPE WITH KVA AND VOLTAGE RATINGS AS CALLED FOR ON THE DRAWINGS AND WITH COILS DESIGNED FOR 150 DEGREES C RISE ABOVE A 40 DEGREE C AMBIENT WITH 100% OF RATED LOAD CONNECTED TO THE SECONDARY, CLASS H INSULATION AND MINIMUM OF SIX STANDARD FULL CAPACITY TAPS (TWO ABOVE AND FOUR BELOW NORMAL) SOUND LEVEL/DECIBELS SHALL BE IN ACCORDANCE WITH "NEMA" STANDARDS, AND INSTALLATION SHALL INCLUDE KORFOUND OR EQUAL VIBRATION-DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY CONNECTIONS TO MINIMIZE SOUND TRANSMISSION. (MOUNT TRANSFORMER ON SEPARATE VIBRATION ISOLATORS, THESE ARE ADDITIONAL VIBRATION ISOLATORS AND ARE USED IN CONJUNCTION WITH ANY INTEGRAL FACTORY INSTALLED VIBRATION ISOLATORS) AS MANUFACTURED BY SQUARE D, HEAVY DUTY, ACME, GENERAL ELECTRIC OR WESTINGHOUSE.

E. LIGHTING CONTACTORS

WHERE INDICATED ON THE DRAWINGS, CONTACTORS FOR CONTROL OF LIGHTING SHALL BE SQUARE D CLASS 8903, TYPE "L" IN A NEMA I ENCLOSURE, ELECTRICALLY OPERATED, AND ELECTRICALLY HELD. EQUALS BY SIEMENS-ITE, GENERAL ELECTRIC, OR WESTINGHOUSE, NO EXCEPTIONS. TIME SWITCHES FOR CONTROL OF SHOW WINDOW LIGHTING AND SIGNS SHALL BE TORK MODEL NO. 1200 (FOR 2 POLES) OR NO. 1300 (FOR 3 POLES), 7 DAY TYPE, WITH RESERVE POWER, OR EQUIVALENT BY SANGAMO OR PARAGON.

F. INSTALLATION

1. ALL ELECTRIC WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT PIPING OR DUCTWORK. ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. EXPOSED CONDUITS SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES. ALL CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR OTHER CODE APPROVED RACEWAYS.

2. ALL LINE AND LOW VOLTAGE POWER AND CONTROL WIRING (EXCEPT HVAC LOW VOLTAGE WIRING) INCLUDING CONNECTIONS TO MOTORS, DAMPERS, INTERLOCKING, ETC., SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. (ALL LINE VOLTAGE WIRING, CONDUIT, AND FINAL CONNECTIONS FROM THE POWER SOURCE THRU THE STARTER/DISCONNECT ETC. TO THE MOTOR OR EQUIPMENT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL HVAC RELATED LOW VOLTAGE CONTROL WIRING, CONDUIT AND FINAL CONNECTIONS IS THE RESPONSIBILITY OF THE MECHANICAL/TEMPERATURE CONTROL CONTRACTOR, UNLESS OTHERWISE NOTED ON THE PLANS)

3. DO ALL CUTTING, CHASING OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THE ELECTRICAL DIVISION, AND CUTTING SHALL HAVE PRIOR APPROVAL OF THE LANDLORD. SLEEVES SHALL EXTEND AT LEAST TWO (2") INCHES ABOVE FINISHED FLOOR AND ALL SLEEVES, OPENINGS ETC. THRU FIRE RATED WALLS AND FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL BY HILTI AFTER CONDUIT/CABLES INSTALLATION SO AS TO RETAIN THE FIRE RATING.

4. THE FOLLOWING EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED BAKELITE NAMEPLATES AS TO NAME AND/OR FUNCTION: DISTRIBUTION PANELS, LIGHTING PANELS, MOTOR STARTERS AND DISCONNECT SWITCHES. NAMEPLATES TO BE APPROXIMATELY 1" X 2" IN SIZE AND BE FASTENED WITH POP RIVETS OR SCREWS.

5. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE ARCHITECT/TENANT PROJECT MANAGER SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.

6. PROTECT ALL FIXTURES/EQUIPMENT AGAINST DAMAGE FROM LEAKS, ABUSE, ETC. AND PAY COST OF REPAIR OR REPLACEMENT OF FIXTURES OR EQUIPMENT MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE SAFEGUARDS OR PROTECTION.

7. MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. AFTER ALL EQUIPMENT HAS BEEN INSPECTED AND APPROVED, THOROUGHLY CLEAN ALL EQUIPMENT PROVIDED UNDER THIS WORK JUST PRIOR TO COMPLETION OF PROJECT.

8. PERFORM ANY/ALL NECESSARY ELECTRICAL DEMOLITION WORK THAT IS REQUIRED TO FACILITATE THE NEW INSTALLATION. FIELD COORDINATE PRIOR TO BIDS. REMOVE AND/OR MODIFY EQUIPMENT, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION. ANY EQUIPMENT OR DEVICE REMAINING IN USE AFTER PART OF THE EQUIPMENT OR DEVICES HAVE BEEN REMOVED ARE TO BE RECONNECTED TO EXISTING OR NEW CIRCUITS AND LEFT IN WORKING ORDER. FEEDERS TO PANELS AND WIRING TO OTHER EQUIPMENT TO BE ROUTED CONCEALED IN FINISHED AREAS. COORDINATE ANY DISRUPTION OF ELECTRICAL OR TELEPHONE SERVICES WITH LANDLORD AND TENANT PROJECT MANAGER TO AVOID CONFLICTS.

DIVISION XVI ELECTRICAL (CONT.)

SEC. 16100 - WIRING METHODS

A. CONDUITS

1. CONDUIT SHALL BE STANDARD STEEL RIGID, IMC OR EMT (THIN WALL) ACCORDING TO LOCAL CODE AND LANDLORD REQUIREMENTS. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS, EXCEPT AS OTHERWISE APPROVED BY ARCHITECT. EMT CONNECTIONS SHALL BE COMPRESSION OR SET SCREW TYPE.

2. FLEXIBLE CONDUIT OR TYPE MC CABLE SHALL BE USED FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS AND VIBRATING EQUIPMENT ONLY; AND WHERE SO USED TO BE GROUNDED WITH A SEPARATE FULL SIZED GREEN GROUNDING CONDUCTOR. FINAL TYPE MC/FLEX CONNECTIONS SHALL BE LIMITED TO 6'-0" IN LENGTH (ARRANGE CIRCUITS SO AS TO AVOID THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILING AREAS, JUNCTION BOXES LOCATED ABOVE LAY-IN CEILINGS ARE ACCEPTABLE).
a. MINIMUM SIZES OF CONDUITS SHALL BE 3/4" FOR STANDARD CONDUIT, AND 1/2" FOR FLEX CONDUIT (1/2" STANDARD CONDUIT AND 3/8" MC CABLE MAY BE USED AS SPECIFIED ABOVE, IF ACCEPTABLE WITH LANDLORD AND LOCAL CODES). ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE WITH LANDLORD & INSPECTION AGENCIES PRIOR TO INSTALLATION. ELECTRIC METALLIC TUBING (EMT) SHALL BE GALVANIZED OR ELECTRO-GALVANIZED. FITTINGS SHALL BE SET SCREW OR COMPRESSION TYPE. FITTINGS SHALL BE AS MANUFACTURED BY REGEL, STEEL CITY, RACO, T & B, EFCOR OR EQUAL. EMT SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS RUN ABOVE SUSPENDED CEILINGS OR CONCEALED IN INTERIOR PARTITIONS.
b. PAINTING OF ELECTRICAL CONDUITS, ETC. IF REQUIRED, WILL BE BY THE GENERAL CONTRACTOR.

3. THE USE OF ROMEX OR BX IS NOT PERMITTED.

4. MAXIMUM CONDUIT HANGER SPACING SHALL BE 8'-0" FOR 3/4" THRU 1-1/4" AND 10'-0" FOR 1-1/2" THRU 4" CONDUITS. DO NOT SUPPORT CONDUIT FROM THE CEILING SYSTEM.

5. LEAVE A 3/16 AWG PULL WIRE OR NYLON PULL STRING IN ALL EMPTY CONDUITS.

6. SECURE ALL RACEWAYS TO THE BUILDING STRUCTURE IN A RIGID AND SECURE MANNER, USING FASTENERS SUCH AS "CADDY CLIPS" OR EQUAL.

7. FLASH AND COUNTER FLASH ALL RACEWAYS WHICH PENETRATE THE ROOF OR USE PITCH POCKETS. INSURE THAT PENETRATIONS ARE COMPLETELY WEATHERPROOF. ALL RACEWAY SYSTEMS EXPOSED TO THE WEATHER SHALL BE WEATHERPROOF. PRIOR APPROVAL BY LANDLORD IS REQUIRED TO ADD ADDITIONAL EQUIPMENT LOADS TO STRUCTURE OR TO MAKE HOLES IN EXISTING ROOF. NOTIFY LANDLORD'S ROOFING CONTRACTOR AT LEAST 72 HOURS PRIOR TO ANY REQUIRED ROOF WORK.

B. WIRE

1. WIRE SHALL BE SINGLE CONDUCTOR COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE 12 AWG. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE BROUGHT TO THE SITE IN UNBROKEN PACKAGES. ALL WIRING OF ANY TYPE SHALL BE IN CONDUIT. NO STRANDED WIRE ALLOWED FOR 10 AND 12 AWG SIZES. (INCREASE CONDUCTOR BY ONE SIZE FOR EVERY 150' INCREMENT OF DISTANCE FROM THE PANEL BOARD FOR 120 VOLT CIRCUITS.)
a. GENERAL WIRING SHALL BE THW OR THHN. ALUMINUM CONDUCTORS ARE NOT PERMITTED.

2. WIRE CONNECTORS SHALL BE EQUAL TO SCOTHLOCK FOR 10 AND SMALLER, AND EQUAL TO T & B "LOCK-TITE" FOR 8 AND LARGER.

3. THE USE OF SHARED NEUTRALS IS ACCEPTABLE FOR LIGHTING AND RECEPTACLE CIRCUITS IF INSTALLED IN ACCORDANCE WITH N.E.C. 210, AND LOCAL CODES.

SEC. 16300 - TRANSMISSION & DISTRIBUTION

A. WIRED GROUND SYSTEM

1. FURNISH AND INSTALL A COMPLETE WIRED GROUNDING SYSTEM FOR ELECTRICAL EQUIPMENT AND CIRCUITS AS SHOWN ON THE DRAWINGS AND DESCRIBED GENERALLY BELOW.

2. ALL GROUNDING CONDUCTORS SHALL BE GREEN, WHERE EXPOSED IN PANEL, SWITCHBOARD, OUTLET, BOXES, ETC.

3. ALL ENCLOSURES AND NON-CURRENT CARRYING METALS TO BE GROUNDED. CONDUIT SYSTEM TO BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS MUST CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES. WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS.

4. RUN A SEPARATE GROUNDING CONDUCTOR IN EACH CONDUIT, 12 MINIMUM, OR AS SHOWN ON DRAWINGS. FOR PANEL FEEDERS BOND THE GROUNDING CONDUCTOR TO THE CONDUIT, WHERE ENTERING AND LEAVING THE CONDUIT. ALL GROUND CLAMPS SHALL BE PENN-UNION OR EQUAL, SIMILAR TO "GPL" TYPE. CONDUIT GROUND BUSHINGS SHALL BE THOMAS & BETTS OR EQUAL, SIMILAR TO 3800 SERIES WITH NYLON INSULATED THROAT.

5. ALL DEVICES SHALL BE BONDED TO THE CONDUIT SYSTEM. USE A BONDING JUMPER BETWEEN THE OUTLET BOX AND THE DEVICE GROUNDING TERMINAL. METAL-TO-METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES. ALL JUNCTION BOXES, OUTLET BOXES AND PULL BOXES SHALL BE BONDED TO THE CONDUIT SYSTEM. ALL FLEXIBLE CONDUIT SHALL BE JUMPERED WITH A GROUND CONDUCTOR.

B. SERVICES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE FROM LANDLORD'S DESIGNATED LOCATION AND PROVIDE LIGHTING, POWER AND WIRING AS REQUIRED TO FACILITATE APPLICABLE TEMPORARY WIRING, FUSES, ETC. SHALL BE REMOVED UPON COMPLETION OF THE PROJECT. PROVIDE GROUND FAULT PROTECTION AS REQUIRED BY N.E.C. AND LOCAL CODES.

2. PROVIDE ELECTRICAL SERVICE AS SHOWN ON THE DRAWINGS. FIELD VERIFY EXACT REQUIREMENTS PRIOR TO BIDS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CLOSELY COORDINATE ENTIRE INSTALLATION WITH LANDLORD AND POWER COMPANY AS REQUIRED. (PROVIDE EQUIPMENT THAT IS COMPATIBLE WITH AVAILABLE FAULT CURRENT LEVELS, PROVIDE "CABLE LIMITERS" IF NECESSARY FOR SYSTEM COORDINATION). FIELD VERIFY EXACT TYPE, SIZE, LOCATION, REQUIREMENTS, ETC. OF EXISTING POWER AND TELEPHONE FACILITIES PRIOR TO BIDDING PROJECT.

3. MAKE PROVISIONS FOR NEW TELEPHONE SERVICE AS REQUIRED, AND AS INDICATED ON THE DRAWINGS.
a. CONDUIT SYSTEM FOR TELEPHONE DISTRIBUTION WITHIN TENANT'S PREMISES SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE TELEPHONE SYSTEM. OUTLET BOXES SHALL BE 4" SQUARE MINIMUM WITH SINGLE DEVICE COVER AND TELEPHONE PLATE. CLOSELY FIELD COORDINATE WITH TENANT'S PROJECT MANAGER TO AVOID CONFLICTS.

SEC. 16500 - LIGHTING

A. LIGHTING

1. LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED AS SCHEDULED. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES AND LAMPS. FLUORESCENT FIXTURES SHALL HAVE HPF BALLASTS WITH EFFICIENCY FACTORS IN ACCORDANCE WITH "NATIONAL APPLIANCE ENERGY CONSERVATION ACT OF 1987, AMENDMENTS OF 1988".

2. LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE VIA ALL THREAD AND UNI-STRUT, AND NOT SUPPORTED BY CEILING SYSTEM.

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C.O.A. #9190
750 Brooksedge Blvd.
Westerville, Ohio 43081
TEL: 614.818.2323
FAX: 614.818.2337
David F. Gonzalez - Reg. #54327

REVISIONS

NO.	DESCRIPTION	DATE

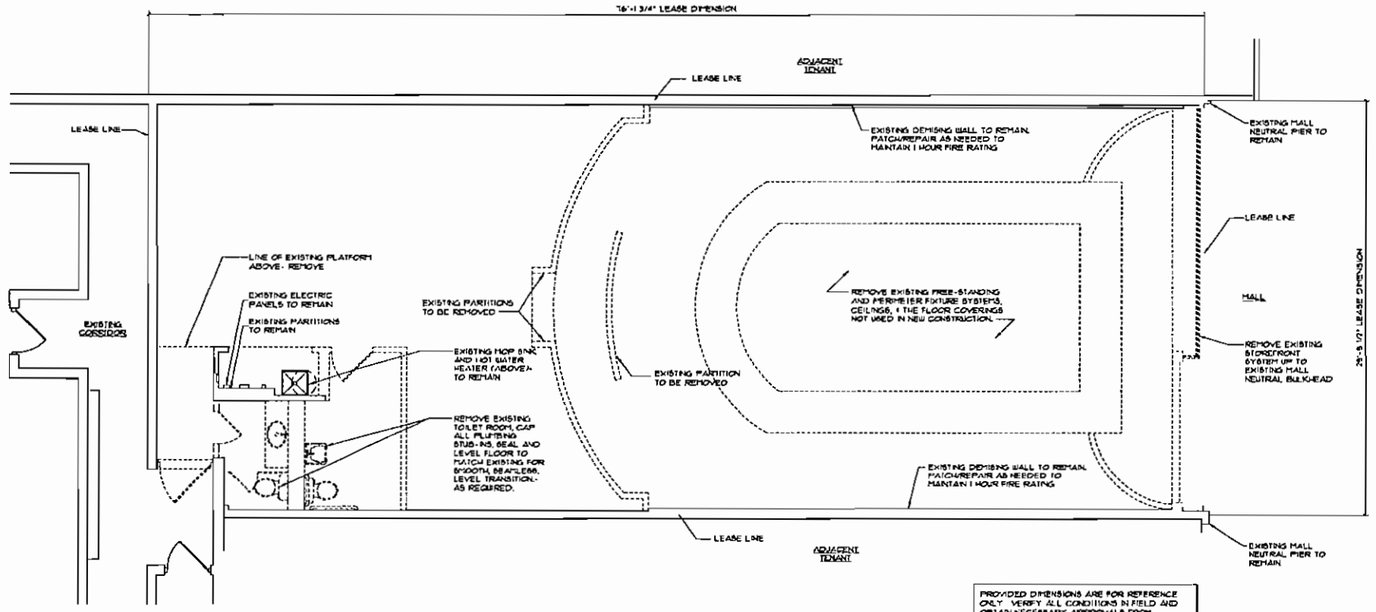
DATE: 03/12/07
SCALE: AS SHOWN
GROSS AREA: 2,270 SQ. FT.
SALES AREA: 1,287 SQ. FT.
PROJECT #: 0712040
DRAWN BY:

FOOTACTION USA

PROJECT TITLE
TYRONE SQUARE
SPACE 110
6901 Tyrone Square
St. Petersburg, FL 33710
STORE NO. 57284

SHEET TITLE
MECHANICAL & ELECTRICAL SPECIFICATIONS

SHEET NO. G1.2



PROVIDED DIMENSIONS ARE FOR REFERENCE ONLY. VERIFY ALL CONDITIONS IN FIELD AND OBTAIN NECESSARY APPROVALS FROM LANDLORD PRIOR TO COMMENCEMENT OF DEMOLITION.

1 DEMOLITION PLAN

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

1. PRIOR TO COMMENCING ANY WORK CONFIRM WITH THE LANDLORD THAT THE SPACE IS THE DESIGNATED SPACE AS SHOWN IN THE DRAWINGS. REPORT ANY DISCREPANCIES TO THE TENANT CONSTRUCTION MANAGER.
2. CONFIRM LOCATION OF ALL LEASE LINES WITH LANDLORD REPRESENTATIVE PRIOR TO DEMO.
3. COORDINATE WORK AND SCHEDULE WITH THE LANDLORD OR DESIGNATED AGENT.
4. PROTECT ALL AREAS NOT INCLUDED IN THE WORK. ANY DAMAGE THAT OCCURS AS A RESULT OF THE WORK SHALL BE REPAIRED TO A LIKE NEW CONDITION @ G.C. EXPENSE (SEE SPECIFICATION).
5. NOTIFY THE TENANT CONSTRUCTION MANAGER AT ONCE OF ANY UNFORESEEN HAZARD OF ANY KIND BEFORE DEMOLITION IS COMPLETE. THE REMOVAL AND/OR HANDLING OF HAZARDOUS MATERIALS (E.G. - ACM.) IS NOT PART OF THIS WORK. IF ANY DISTURBANCE OF HAZARDOUS MATERIAL IS ANTICIPATED BY THIS WORK, AUTHORITIES MUST BE NOTIFIED & PRESCRIBED PROCEDURES MUST BE FOLLOWED.
6. NO ALTERATIONS TO THE EXISTING STRUCTURAL MEMBERS ARE ALLOWED UNLESS SPECIFICALLY NOTED.
7. ALL CONDITIONS AND DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND MUST BE FIELD VERIFIED AT THE SITE. UPON COMPLETION OF DEMOLITION, ALL CONDITIONS AND DIMENSIONS ARE TO BE CHECKED FOR VARIANCES. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE TENANT CONSTRUCTION MANAGER. ANY UNNOTED EXISTING CONDITIONS WHICH MAY CONFLICT WITH THE PROPOSED NEW WORK AND MAY REQUIRE MODIFICATION, RELOCATION AND OR REMOVAL SHALL BE IDENTIFIED AND REPORTED TO THE TENANT CONSTRUCTION MANAGER AT ONCE
8. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR SCOPE OF NEW WORK AND TO CONFIRM TERMINATION AND/OR REMOVAL OF EXISTING FIXTURES, DEVICES AND SERVICES.
9. ANY MODIFICATION TO EXISTING SPRINKLER SYSTEM MUST BE APPROVED BY LOCAL FIRE MARSHALL AND COORDINATED WITH LANDLORD'S REPRESENTATIVE.
10. EVALUATE THE EXISTING TOILET ROOM (CONFIGURATION AND FIXTURES) TO DETERMINE THE LIMIT OF SERVICEABLE ELEMENTS. TOILET ROOM AND PLUMBING FIXTURES MUST MEET ALL APPLICABLE CODES (SEE SHEET A1.3) AND THE FIXTURES MUST BE IN GOOD CONDITION. COORDINATE WITH TENANT CONSTRUCTION MANAGER PRIOR TO ANY DEMO.
11. COORDINATE WITH ANY LANDLORD VENDOR OR CONTRACTOR TO DETERMINE THE EXTENT OF WORK FOR ROOFING, PLUMBING, FIRE-PROTECTION, SMOKE EXHAUST, ETC. ANY INFORMATION SHOWN IS TO BE VERIFIED IN FIELD.
12. MAINTAIN AND/OR REPAIR ALL FIRE RATED ASSEMBLIES AND SEPARATIONS (WALL, FLOOR, CEILING, OR BETWEEN ADJACENT SPACES ETC.) TO MAINTAIN REQUIRED FIRE RATING AS REQUIRED BY ANY CODE OR REGULATION. PROVIDE AND/OR MAINTAIN FIRE STOPPING AS REQ'D BY CODE.
13. REPAIR ANY DAMAGE THAT OCCURS DURING DEMOLITION TO ANY ASSEMBLY SCHEDULED TO REMAIN

DEMOLITION NOTES

NO LANDLORD DEMOLITION OBLIGATIONS

LANDLORD DEMOLITION OBLIGATIONS

LEGEND

EXISTING INTERIOR WALL OR DEMISING WALL TO REMAIN

EXISTING INTERIOR WALL, DEMISING WALL OR OTHER ITEM TO BE REMOVED

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P 714.436.9000
F 714.436.9095
Corporate Office
1133 Bristol Street
Costa Mesa, CA 92626

REVISIONS

NO.	DESCRIPTION	DATE

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SALES AREA:	1,287 SQ. FT.
PROJECT # :	57284
DRAWN/CHECKED BY:	TP/BY

FOOTACTION USA

PROJECT TITLE
TYRONE SQUARE
SPACE 110
6901 Tyrone Square
St. Petersburg, FL 33710

STORE NO. 57284

SHEET TITLE
DEMOLITION PLAN

SHEET NO. D1.0