SECTION 00 72 00 - GENERAL CONDITIONS NOTICE

- A. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AMERICAN INSTITUTE OF ARCHITECTS A.I.A. DOCUMENT A201, FOURTEENTH EDITION, 1987, AND THE SUPPLEMENTARY CONDITIONS ON FILE IN THE OFFICES OF THE ARCHITECT AND THE OWNER'S REPRESENTATIVE, ARE HEREBY A PART OF THE SPECIFICATIONS, AND SHALL APPLY AND BE BINDING TO ALL CONTRACTORS AS THOUGH WRITTEN IN FULL HEREIN.
- B. CONTRACTORS SHALL EXAMINE AND BECOME FAMILIAR WITH ALL PROVISIONS OF THE ABOVE SPECIFIED DOCUMENTS.

END OF SECTION

SECTION 01 01 00 - GENERAL SCOPE OF WORK

- A. WORK INCLUDED: THE PROJECT GENERALLY CONSISTS OF, BUT IS NOT NECESSARILY LIMITED TO, THE RENOVATION AND COMPLETION OF AN ELEVATOR PENTHOUSE AS INDICATED ON THE DRAWINGS. 1. <u>GENERAL</u>: ALL WORK SHALL BE DONE IN A FIRST CLASS MANNER WITH NEW MATERIALS.
- 2. INSPECTIONS AND MEASUREMENTS: INSPECT, OBTAIN AND VERIFY FIELD MEASUREMENTS OF ADJOINING WORK AS REQUIRED TO LOCATE AND FIT WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE FITTING OF MATERIALS TOGETHER AND TO THE BUILDING. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR UNSUITABLE CONDITIONS PRIOR TO PROCEEDING WITH ANY
- B. SCOPE OF WORK: PRODUCTS AND MATERIALS SPECIFIED UNDER EACH SPECIFICATION SECTION SHALL BE CONSIDERED TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE ARCHITECT TO BE FURNISHED TO OTHERS FOR INSTALLATION, OR FURNISHED BY OTHERS FOR INSTALLATION BY THE CONTRACTOR.
- 1. WORK SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, PROVIDING ALL LABOR, MATERIALS, EQUIPMENT, APPARATUS, TOOLS, TRANSPORTATION, PROTECTION, AND SERVICES NECESSARY FOR, AND REASONABLY INCIDENTAL TO, THE PROPER EXECUTION AND COMPLETION OF ALL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- C. MANDATORY SITE VISIT: PRIOR TO SUBMITTING BID PROPOSAL, ALL CONTRACTORS SHALL VISIT THE PROJECT SITE AND COMPARE EXISTING FIELD CONDITIONS WITH DRAWINGS AND SPECIFICATIONS. NO ALLOWANCE WILL BE MADE TO THE CONTRACT BY REASON OF FAILURE OF NOT HAVING MADE AN EXAMINATION. OR FOR ANY ERROR DUE TO INADEQUATE INVESTIGATION.
- D. <u>MATCHING EXISTING MATERIALS</u>: WHERE INDICATED ON THE DRAWINGS OR REQUIRED BY FIELD CONDITIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSPECTION, IDENTIFICATION AND VERIFICATION OF MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS TO MATCH EXISTING. REPORT TO ARCHITECT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- E. <u>REQUIREMENTS</u>: ALL WORK SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE FOLLOWING:
- 1. CONTRACT
- 2. DRAWINGS
- APPROVED SHOP DRAWINGS.
- 4. GENERAL CONDITIONS (AND SUPPLEMENTARY CONDITIONS)
- 5. SPECIFICATIONS, ADDENDA AND BULLETINS.
- 6. CHANGE ORDERS AND DIRECTIVES RECEIVED FROM THE OWNER AND/OR ARCHITECT.
- 7. WARRANTIES AND GUARANTEES IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. WITH PERIOD OF WARRANTY OR GUARANTY AS STATED THEREIN. IF CONTRACTOR NEGLECTS TO CORRECT OR COMPLETE WORK IN PUNCH LISTS DURING PERIOD OF WARRANTY OR GUARANTY, CONTRACTOR IS STILL RESPONSIBLE AND REQUIRED TO DO SO AFTER EXPIRATION DATES OF WARRANTY OR GUARANTY UNTIL THE CORRECTIVE WORK IS COMPLETED AND ACCEPTED BY THE OWNER.
- 8. THE GOVERNING LOCAL, STATE AND NATIONAL BUILDING CODES, LAWS, ORDINANCES, RULES, PERMITS, REGULATIONS AND DIRECTIVES FROM AUTHORITIES HAVING JURISDICTION.
- 9. THE APPROVED (DEMOLITION AND) CONSTRUCTION TIME AND SEQUENCE SCHEDULE.
- 10. COOPERATE WITH OTHER CONTRACTORS EMPLOYED BY THE OWNER UNDER SEPARATE CONTRACTS. COOPERATION SHALL INCLUDE. BUT NOT BE LIMITED TO. WRITTEN NOTICES TO OTHERS WHEN REQUIRED TO IMPLEMENT PROPER COORDINATION OF THE WORK, AND TO MAINTAIN THE (DEMOLITION AND) CONSTRUCTION TIME SCHEDULE SEQUENCE.
- F. QUALITY ASSURANCE: ALL MATERIALS, ARTICLES AND ACCESSORIES SHALL BE NEW MATERIALS OF TYPE AND QUALITY SPECIFIED AND SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT AND THE OWNER. METHODS OF PREPARATION, APPLICATION, CONSTRUCTION AND INSTALLATION OF MATERIALS SHALL BE IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICES, MANUFACTURER'S PRINTED SPECIFICATIONS, AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- G. SUBSTITUTIONS: WHERE SPECIFICATIONS MAY ALLOW THE USE OF A COMPARABLE MANUFACTURER'S PRODUCT, ACCEPTANCE SHALL BE SUBJECT TO CONFORMANCE WITH THE SPECIFICATIONS, THE REQUIREMENTS OF THE DRAWINGS, AND REVIEW BY THE ARCHITECT.
- H. <u>REQUIREMENTS OF REGULATORY AGENCIES</u>: FURNISH AND INSTALL ALL MATERIALS OR COMPONENTS INACCORDANCE WITH THE LAWS, CODES, ORDINANCES AND REGULATIONS OF THE PUBLIC AUTHORITIES HAVING JURISDICTION, INCLUDING ICC/ANSI-A117.1 AND TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA), PUBLIC LAW 101-336.
- I. <u>INTENT\_OF\_CONTRACT\_DOCUMENTS</u>: WORK NOT PARTICULARLY DETAILED, MARKED, OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED, OR SPECIFIED. SHOULD AN ERROR OCCUR IN THE SPECIFICATIONS OR DRAWINGS. OR IN WORK BY OTHERS AFFECTING THIS WORK THE CONTRACTOR SHALL AT ONCE NOTIFY THE ARCHITECT WHO WILL ISSUE INSTRUCTIONS AS TO PROCEDURE. IF THE CONTRACTOR PROCEEDS WITH THE WORK BASED ON SUCH AN ERROR WITHOUT INSTRUCTIONS FROM THE OWNER, THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECTS. THIS INCLUDES SPECIFICATION TYPOGRAPHICAL ERRORS AND DRAWING NOTATIONAL ERRORS WHERE THE INTENT IS DOUBTFUL.
- J. <u>CONFLICTS</u>: IN THE EVENT OF A CONFLICT OR NEED FOR INTERPRETATION BETWEEN THE WORKING DRAWINGS AND SPECIFICATIONS. THE ARCHITECT SHALL BE THE SOLE INTERPRETER OF THE DRAWINGS AND SPECIFICATIONS, TO DETERMINE WHICH, IF ANY WILL TAKE PRECEDENCE.
- K. <u>PROHIBITED SUSPENSION OF MATERIALS FROM METAL DECK</u>: SUSPENSION OF ANY MATERIAL OR EQUIPMENT FROM METAL DECK IS STRICTLY PROHIBITED. ITEMS NOT ALLOWED TO BE ATTACHED TO OR SUSPENDED FROM THE METAL DECK SHALL NOT BE LIMITED TO PRODUCTS SUCH AS MECHANICAL OR ELECTRICAL EQUIPMENT, DUCTS, PIPING, LIGHT FIXTURES, OR OTHER DECORATIVE STRUCTURES.
- L. <u>ASBESTOS FREE MATERIALS</u>: NO ASBESTOS, OR PRODUCTS CONTAINING ASBESTOS, SHALL BE INSTALLED IN THIS PROJECT. GENERAL CONTRACTOR SHALL PROVIDE TO THE OWNER AN AFFIDAVIT CERTIFYING SAME AT COMPLETION OF CONSTRUCTION.
- M. PRODUCT DELIVERY AND STORAGE:
- 1. PROTECT ALL MATERIALS FROM THE WEATHER DURING TRANSIT AND STORAGE. DELIVER ONLY ACCEPTABLE MATERIALS TO THE SITE IN ORIGINAL BOXES, PROTECTIVE WRAPPINGS, CLEARLY LABELED WITH ALL PERTINENT INFORMATION (I.E., MANUFACTURER, MATERIAL TYPE, AND LOCATION), TO FACILITATE CHECKING. UNLOAD IN AREAS OR ASSIGNED ROOMS FOR STORAGE DESIGNATED BY THE GENERAL CONTRACTOR OR THE OWNER'S REPRESENTATIVE.
- 2. STORE MATERIALS AT PROTECTED TEMPORARY WEATHERTIGHT STORAGE LOCATIONS AND/OR INTERIOR SECURE LOCATIONS. DO NOT DELIVER MATERIALS TO THE JOB SITE UNTIL REQUIRED FOR INSTALLATION.
- a. <u>WOOD</u>: TAKE ALL PRECAUTIONS TO AVOID MOISTURE ABSORPTION.
- b. INSULATION: WET, DAMP OR DAMAGED MATERIALS SHALL NOT BE USED.
- c. HOLLOW METAL DOOR FRAMES (PRESSED STEEL FRAMES): DOOR FRAMES SHALL BE SHIPPED VITH TEMPORARY SPREADERS ACROSS BOTTOMS TO MAINTAIN SHAPE.
- N. SCAFFOLDING: PROVIDE, ERECT, AND MAINTAIN ALL SCAFFOLDING, COMPLYING WITH GOVERNING CODE EQUIREMENTS. ERECT APPARATUS AT TIMES AND LOCATIONS SO AS NOT TO DELAY ANY WORK. WHEN WORK HAS BEEN COMPLETED, PROMPTLY DISMANTLE SCAFFOLDING AND REMOVE FROM SITE.
- O. VEHICLES: ALL VEHICLES WHERE REQUIRED FOR USE ON FINISHED FLOOR SURFACES SHALL BE EQUIPPED WITH NON-MARKING RUBBER WHEELS. VEHICLES SHALL NOT PARK ON SIDEWALKS OR COMMON AREAS. USE DESIGNATED LOT AREAS.
- P. <u>CERTIFICATION OF WELDERS</u>: PRIOR TO START OF WORK, SUBMIT WELDER CERTIFICATION BY RECOGNIZED, INDEPENDENT LABORATORY TO ARCHITECT. ALL WELDING SHALL BE PERFORMED BY WELDERS WHO HAVE QUALIFIED BY TESTS PRESCRIBED IN STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY (AWS).
- Q. <u>DAMAGE TO MATERIALS</u>: USE CARE IN STORING, HANDLING AND ERECTING ALL MATERIALS AND SUPPORT PROPERLY AT ALL TIMES TO INSURE MATERIALS WILL NOT BE DAMAGED. MATERIALS DAMAGED DUE TO THE CARELESSNESS OF THE CONTRACTOR SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR TO THE APPROVAL OF THE OWNER.
- R. WARRANTIES AND GUARANTEES: EXECUTE A WARRANTY AND/OR GUARANTY IN THE ARCHITECT/OWNER APPROVED WRITTEN FORM, WARRANTING AND GUARANTYING ALL MATERIALS AND WORKMANSHIP TO REMAIN IN SERVICEABLE AND SATISFACTORY CONDITION. AND TO MAKE GOOD AT OWN EXPENSE. WITHOUT COST TO THE OWNER. ANY IMPERFECTIONS WHICH MAY DEVELOP DURING THE WARRANTY AND/OR GUARANTY PERIOD AND DAMAGE TO OTHER WORK CAUSED BY IMPERFECTIONS OR BY REPAIRING IMPERFECTIONS. UNLESS OTHERWISE SPECIFIED, THE WARRANTY AND GUARANTY PERIOD SHALL BE NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK BY THE OWNER.
- S. <u>DAMAGED WORK</u>: ALL DAMAGED OR DEFECTIVE WORK SHALL BE REPLACED BY NEW WORK TO THE SATISFACTION OF THE OWNER. ALL WORK WHICH BECOMES DAMAGED IN THE COURSE OF REPAIR WORK SHALL BE REPAIRED OR REPLACED BY THE INSTALLING CONTRACTOR AT NO COST TO THE OWNER, TO THE SATISFACTION OF THE OWNER.

T. FIRE PREVENTION:

END OF SECTION

- WHEN WELDING OR CUTTING WITH BURNING TORCHES IS REQUIRED, TAKE ALL PRECAUTIONS TO PREVENT DAMAGE TO THE BUILDING FROM FIRE, WELD SPLATTER, DRIPPING MOLTEN METAL, SMOKE AND FUMES, OR OTHER CAUSES ARISING FROM THE OPERATIONS. PROVIDE FIREPROOF TARPAULINS OR ENCLOSURES AROUND THE AREAS OF WELDING OR BURNING.
- TRAINED PERSONNEL AND EQUIPMENT: FURNISH A WORKER TRAINED AND EXPERIENCED IN FIRE-FIGHTING, WHOSE SOLE DUTY SHALL BE TO PREVENT DAMAGE AND FIRE AT EACH LOCATION WHERE WELDING OR BURNING IS TO BE DONE. FURNISH ADEQUATE AND SUFFICIENT FIRE-FIGHTING EQUIPMENT AND EXTINGUISHERS AT EACH LOCATION. U. <u>CLEAN-UP</u>:
- 1. CLEAN-UP AND REPAIR ADJACENT FINISHED WORK SOILED, MARRED, OR DAMAGED IN THE PERFORMANCE OF WORK, SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
- 2. DURING PROGRESS OF WORK, THE PREMISES SHALL BE KEPT FREE OF ALL DEBRIS AND WASTE MATERIALS RESULTING FROM THE WORK. ALL DEBRIS AND RUBBISH SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED. UPON COMPLETION OF WORK AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH, UNUSED MATERIALS, TOOLS, AND EQUIPMENT SHALL BE REMOVED FROM THE SITE
- 3. AT COMPLETION OF THE PROJECT, CONSTRUCTION SITE DISTURBED OR DISRUPTED BY CONSTRUCTION ACTIVITIES SHALL BE IN NOT LESS THAN BROOM CLEAN CONDITION, SUBJECT TO APPROVAL BY THE OWNER.

SECTION 01 15 00 - CONTRACT STANDARDS AND PROCEDURES

- A. WORK INCLUDED: THIS SECTION CONSISTS OF ESTABLISHING STANDARDS AND PROCEDURES. B. OPERATIONS:
- . LAYOUT: LOCATE AND LAYOUT THE WORK, AND ESTABLISH LINES AND LEVELS ACCURATELY. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY. 2. <u>USE OF PREMISES</u>: CONFINE APPARATUS, STORAGE OF MATERIALS, AND OPERATIONS OF WORKMEN TO LIMITS INDICATED BY LAW, ORDINANCE, PERMIT, OR ARRANGEMENT WITH THE OWNER. DO NOT
- UNREASONABLY ENCUMBER THE PREMISES WITH MATERIALS. PROGRESS MEETINGS: ARRANGE FOR REGULAR PERIODIC PROGRESS MEETINGS. ALL KEY PERSONNEL OF CONTRACTORS AND SUBCONTRACTORS SHALL ATTEND. NOTIFY OTHER PARTIES AS
- THE OWNER'S REPRESENTATIVE OR ARCHITECT MIGHT DESIGNATE, AS JOB CONDITIONS AND PROGRESS MIGHT WARRANT.
- C. <u>RECORD DRAWINGS</u>: MAINTAIN ON SITE A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS AS REQUIRED BY SECTION 01 70 00 PROJECT CLOSEOUT. D. SUBMITTALS:
- SUBCONTRACTOR LIST: SUBMIT LIST OF SUBCONTRACTORS WITH ADDRESSES AND PHONE NUMBERS FOR APPROVAL WITHIN TWENTY-FOUR (24) HOURS AFTER NOTIFICATION OF INTENT TO ENTER INTO CONTRACT. PREPARE LIST ON THE FORM OF A SWORN STATEMENT ATTESTING TO THE VALIDITY OF SUCH. DO NOT CHANGE THE NAME OF SUBCONTRACTORS OR VENDORS ON THE APPROVED LIST
- WITHOUT THE SPECIFIC WRITTEN FORM STATING SUFFICIENT REASON TO WARRANT SUCH A CHANGE. 2. <u>SCHEDULE OF VALUES</u>: PREPARE DETAILED ACCOUNTING OF CONTRACT SUM ON THE BASIS OF "TRADES" SPECIFICATIONS SECTIONS INDICATED ON DRAWING. SUBMIT AND OBTAIN APPROVAL BEFORE FIRST APPLICATION FOR PAYMENT. USE ONLY APPROVED BREAKDOWN FOR PAYMENT REQUESTS
- 3. PAYMENT SCHEDULE: SUBMIT TO THE ARCHITECT AT LEAST TWENTY (20) DAYS PRIOR TO THE SUBMISSION OF THE FIRST REQUEST FOR PAYMENT, A SCHEDULE DETAILING PROJECTED MONTHLY REQUESTS FOR PAYMENT FOR THE DURATION OF THE PROJECT.
- 4. SHOP DRAWINGS AND SAMPLES:

SUBSTANTIAL COMPLETION.

- a. REFER TO SECTION 01 33 23 SHOP DRAWINGS AND SAMPLES. b. IN ADDITION TO SECTION 01 33 23, THE CONTRACTOR SHALL FURNISH THE OWNER WITH ONE (1) COPY OF ALL APPROVED SHOP DRAWINGS AND MANUFACTURERS PRODUCT DATA BOUND IN LOOSE LEAF FORM, FOR THE OWNER'S RECORDS, PRIOR TO OWNER ISSUING THE CERTIFICATE OF
- 5. <u>TEST REPORTS</u>: SUBMIT COPIES AS REQUIRED HEREIN, WITH DISTRIBUTION AS DIRECTED BY THE ARCHITECT.
- E. DOCUMENTS:
- 1. PERFORMANCE AND LABOR AND MATERIAL PAYMENT BONDS:
- a. IF REQUIRED, DELIVER TO THE OWNER WITHIN TEN (10) DAYS OF THE DATE OF THE NOTIFICATION OF INTENT TO ENTER INTO CONTRACT.
- b. CONDITION BONDS FOR THE FAITHFUL PERFORMANCES OF THE CONTRACT AND FOR T PAYMENT OF LABOR AND MATERIAL, EACH IN THE SUM OF 100% OF THE AMOUNT OF THE CONTRACT AS SET FORTH IN NOTIFICATION OF INTENT TO ENTER INTO CONTRACT. c. THE OWNER, AT THE OWNER'S DISCRETION, RESERVES THE RIGHT TO ACCEPT OR REJECT THE
- COMPANY UNDERWRITING THE BONDS ON THE BASIS OF THEIR PREVIOUS PERFORMANCE. 2. <u>AGREEMENT</u>: USE AIA FORM A111.
- 3. <u>APPLICATION FOR PAYMENT</u>: USE AIA FORM G702 AND G703.
- 4. <u>SWORN STATEMENTS</u>: USE UNIFORM COMMERCIAL FORMAT DESIGNATED BY THE OWNER.
- INSURANCE CERTIFICATE: USE FORM SELECTED BY OWNER. OWNER MAY, AT THE OWNER'S OPTION, REQUIRE A CERTIFIED COPY OF CONTRACTOR'S INSURANCE POLICIES IN ADDITION TO INSURANCE CERTIFICATES.
- F. QUALITY CONTROL
- STANDARDS: ESTABLISH A QUALITY CONTROL SYSTEM TO PERFORM SUFFICIENT INSPECTION AND TESTS OF ALL WORK, INCLUDING SUBCONTRACTORS, TO ENSURE CONFORMANCE TO APPLICABLE SPECIFICATIONS AND DRAWINGS, WITH RESPECT TO MATERIALS, WORKMANSHIP, CONSTRUCTION, FINISH, FUNCTIONAL PERFORMANCE, AND IDENTIFICATION. CONTROL SYSTEM SHALL SPECIFICALLY INCLUDE OBSERVATION, SUPERVISION, AND TESTS REQUIRED IN THE SPECIFICATIONS.
- 2. <u>TESTING</u>: PROVIDE TESTING IN ACCORDANCE WITH SECTION 01 45 23 TESTING.
- G. <u>SCHEDULE</u>:
- 1. <u>DATES</u>: WORK SHALL COMMENCE AND BE SUBSTANTIALLY COMPLETED AS SPECIFIED IN THE CONTRACT AGREEMENT.
- 2. SCHEDULE
- a. PREPARE A "PLAN OF OPERATIONS AND PROGRESS SCHEDULE" TO INDICATE THE MANNER IN WHICH DIFFERENT PHASES OF THE WORK ARE TO BE STARTED, WHEN SHOP DRAWINGS ARE TO BE SUBMITTED, COLORS SELECTED, METHODS AND SPEED FOR PROGRESSING DIFFERENT PHASES, AND DATES UPON WHICH SUBCONTRACTORS ARE DEPENDENT UPON OTHER SUB-CONTRACTS. SCHEDULE SHALL INDICATE MAJOR ITEMS OF WORK. INCLUDING STEEL MISCELLANEOUS METAL ERECTION, CONCRETE WORK AND DATE OF FINAL COMPLETION.
- b. PLAN OF OPERATIONS AND PROGRESS SCHEDULE SHALL BE "WEIGHTED" TO SCHEDULE EACH TRADE IN PROPORTION TO THE ENTIRE PROJECT, PHYSICALLY AND FINANCIALLY.
- c. REVISE SCHEDULE MONTHLY TO INDICATE ACTUAL PROGRESS COMPARED TO THE ESTIMATED PROGRESS
- d. POST SCHEDULE IN THE CONTRACTOR'S FIELD OFFICE AND DISTRIBUTE COPIES TO THE OWNER, ARCHITECT, PROJECT REPRESENTATIVE, AND ALL PRIME SUBCONTRACTORS.
- H. <u>PAYMENT</u>: <u>REQUESTS</u>:
- a. ON OR BEFORE THE TENTH (10TH) DAY OF EACH MONTH, THE CONTRACTOR SHALL MAKE APPLICATION FOR PAYMENT IN QUADRUPLICATE BASED ON PERCENTAGE OF COMPLETION OF ITEMS OF COST BREAKDOWN.
- b. EACH APPLICATION AFTER THE FIRST ONE SHALL BE ACCOMPANIED BY WAIVERS OF LIEN AND SWORN STATEMENTS THAT ALL LABOR. MATERIALS, AND SERVICES INCLUDED IN THE PREVIOUS AND PRIOR STATEMENTS HAVE BEEN PAID, LESS ONLY THE RETAINED PERCENTAGE STATED HEREIN, AND ANY DISPUTED AMOUNTS WHICH SHALL BE STATED. IN ADDITION, THE CONTRACTOR SHALL REQUEST AND FILE WITH THE REQUEST FOR PAYMENT A SWORN STATEMENT FROM EACH SUBCONTRACTOR THAT THE CONTRACTOR HAS DIRECT CONTRACTUAL RELATIONS WITH.
- 2. <u>PAYMENT</u>: THE OWNER SHALL MAKE PAYMENTS ON ACCOUNT OF EACH CONTRACT AS PROVIDED HEREIN. WITHIN THIRTY (30) DAYS AFTER SUBMISSION AND APPROVAL OF THE APPLICATION FOR PAYMENT THE OWNER WILL PAY NINETY (90) PERCENT OF THE VALUE EXCEPT AS MAY BE MODIFIED AS FOLLOWS, BASED ON THE CONTRACT PRICES, INCLUDING EXECUTED CHANGE ORDERS AMENDING THE CONTRACT, ON LABOR AND MATERIALS INCORPORATED IN THE WORK, AND MATERIAL SUITABLY STORED AT THE SITE UP TO THE FIRST DAY OF THAT MONTH AS CERTIFIED BY THE ARCHITECT, LESS THE AGGREGATE OF THE PREVIOUS PAYMENTS.
- RETAINED PERCENTAGE
- a. TEN (10) PERCENT OF THE ESTIMATED AMOUNTS SHALL BE RETAINED UNTIL THE FINAL COMPLETION AND ACCEPTANCE OF ALL WORK COVERED BY THE CONTRACT.
- b. THE RETAINED PERCENTAGE SHALL BE PAID THIRTY (30) DAYS AFTER OWNER'S ACCEPTANCE OF THE RENOVATION WORK, PROVIDING THAT ALL REQUIREMENTS OF THE CONTRACT ARE MET. REFER TO CLOSING PROCEDURE.

- 4. <u>SUBSTANTIAL</u> <u>COMPLETION</u> <u>PAYMENT</u>: UPON ISSUANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION, A SUM SHALL BE PAID SUFFICIENT TO INCREASE THE PAYMENTS TO THE TOTAL OF THE CONTRACT, LESS THE RETAINED PERCENTAGE. 5. FINAL CERTIFICATE:
- a. AFTER THE CONTRACTOR HAS COMPLIED WITH THE CLOSING REQUIREMENTS SPECIFIED HEREIN. AND PROVIDED THE ARCHITECT WITH APPROPRIATE DOCUMENTATION, THE ARCHITECT SHALL CERTIFY SUCH, ISSUING A FINAL CERTIFICATE.
- b. ISSUANCE OF SUCH CERTIFICATE DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITIES RELATED TO GUARANTEEING THE PERFORMANCE OF THE FACILITY, AS SPECIFIED HEREIN OR OTHERWISE PROVIDED.
- I. <u>CLEANING</u>:
  - 1. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY WORK OPERATIONS AT ALL TIMES. AT THE COMPLETION OF THE WORK REMOVE ALL WASTE MATERIALS AND RUBBISH FROM AND ABOUT THE PROJECT, AS WELL AS ALL TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIALS.
  - 2. ESTABLISH AND ENFORCE A DAILY SYSTEM FOR COLLECTING AND DISPOSING WASTE MATERIALS FROM CONSTRUCTION AREAS AND ELSEWHERE AT PROJECT SITE. DO NOT HOLD COLLECTED MATERIALS AT SITE FOR MORE THAN THREE (3) DAYS. HANDLE HAZARDOUS, DANGEROUS, UNSANITARY, CONTAMINATING, POLLUTION, AND SIMILAR HARMFUL WASTES SEPARATELY FROM INERT MATERIALS BY CONTAINERIZING IN AN APPROPRIATE MANNER. DISPOSE OF EACH CATEGORY OF WASTE MATERIAL IN A LAWFUL MANNER. DO NOT BURY OR BURN WASTE MATERIALS ON OWNER'S PROPERTY.
  - J. CLOSING PROCEDURES
  - 1. <u>FINANCIAL</u> a. FURNISH AMPLE EVIDENCE TO ARCHITECT AND OWNER THAT ALL FINANCIAL OBLIGATIONS HAVE BEEN MET, INCLUDING SWORN STATEMENTS AND FINAL WAIVERS OF LIEN.
  - b. OBTAIN A WRITTEN STATEMENT RELEASING THE OWNER AND THE ARCHITECT FROM ANY AND ALL OBLIGATIONS WHICH MIGHT ARISE OUT OF ANY UNPAID, DEFAULTED, OR OTHERWISE UNSATISFIED ACCOUNTS.
  - 2. PUNCH LIST:
  - a. COMPLETE AND CORRECT ALL ITEMS ON THE PUNCH LIST AS ORIGINALLY ISSUED, AND AMENDED. b. IF CONTEMPLATING APPLICATION FOR FINAL PAYMENT, SCHEDULE A JOINT INSPECTION VISIT TO THE PROJECT WITH THE ARCHITECT ONE (1) WEEK IN ADVANCE TO DETERMINE IF THE CONTRACTS HAVE BEEN FULLY EXECUTED.
  - 3. <u>RECORD DRAWINGS</u>: DELIVER NOT LESS THAN THREE (3) SETS OF DOCUMENTS TO THE OFFICE OF THE ARCHITECT.
  - 4. WARRANTIES AND GUARANTEES:
  - a. SUBMIT ALL WRITTEN WARRANTIES AND GUARANTEES.
  - b. SUBMIT AS APPLICABLE, LIST OF CONTACTS, INCLUDING COMPANY NAME, PERSONAL CONTACT, ADDRESS, TELEPHONE NUMBER, AND E-MAIL ADDRESS FOR BUILDING EQUIPMENT AND COMPONENTS WHICH MAY REQUIRE PERIODIC SERVICE, INCLUDING ROOFING, MECHANICAL EQUIPMENT, FIRE PROTECTION, PLUMBING, POWER ACTUATED DOORS, AND ELECTRICAL EQUIPMENT.
  - 5. OTHER DOCUMENTS:
  - a. FURNISH REPORTS OF ALL TESTS AND THE PERFORMANCE OF COMPLETED SYSTEMS, AS REQUIRED IN THE SPECIFICATIONS, AND ALL CERTIFICATES OF APPROVAL
  - b. FURNISH ALL SCHEDULES, INSTRUCTIONS, AND EQUIPMENT OPERATION AND SERVICE MANUALS AS NECESSARY TO ENSURE SAFE AND PROPER OPERATION AND MAINTENANCE OF NEW PRODUCTS INSTALLED IN THE BUILDING.
  - 6. FINAL CERTIFICATE: ISSUANCE OF FINAL CERTIFICATE DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITIES RELATED TO WARRANTING AND GUARANTYING THE PERFORMANCE OF THE WORK.
- END OF SECTION
- SECTION 01 33 23 SHOP DRAWINGS AND SAMPLES
- A. SHOP DRAWINGS:
- SUMMARY LISTING AND SCHEDULE: GENERAL CONTRACTOR SHALL PREPARE A SUMMARY LIST AND SCHEDULE OF SHOP DRAWINGS, SAMPLES, AND BROCHURES FOR EACH ITEM OF WORK, AND SUBMIT TO THE ARCHITECT FOR REVIEW. SCHEDULE SHALL ALLOW APPROXIMATELY TWO (2) WEEKS FOR REVIEW BY THE ARCHITECT: HOWEVER. THIS MAY VARY DEPENDING UPON THE QUANTITY OF THE MATERIAI SUBMITTED. SCHEDULE SHALL ALSO ALLOW TIME FOR SUBMISSION OF SHOP DRAWINGS SAMPLES AND BROCHURES WHICH MAY BE DISAPPROVED
- 2. REQUIREMENTS: SHOP DRAWINGS ARE REQUIRED FOR THE VARIOUS ITEMS INDICATED ON THE DRAWINGS AND BY THE VARIOUS SECTIONS OF THE SPECIFICATIONS
- 3. SUBMITTALS: EACH CONTRACTOR SHALL SUBMIT THROUGH THE GENERAL CONTRACTOR, TO THE ARCHITECT, AT PROPER TIMES, ALL SHOP DRAWINGS, PRODUCT DATA, AND DRAWING SETTING DIAGRAMS WHICH THE ARCHITECT MAY DEEM NECESSARY TO MAKE CLEAR THE WORK INTENDED OR SHOW ITS RELATION TO WORK OF OTHER TRADES. SHOP DRAWINGS AND PRODUCT DATA SHALL CONTAIN MANUFACTURER'S NAME, MATERIAL DESCRIPTION, SIZES AND DIMENSIONS, AND OTHER PERTINENT INFORMATION. PRODUCT DATA SHALL IDENTIFY MATERIALS TO BE SUPPLIED BY INDICATING THE INTENDED MATERIALS ON THE PRODUCT DATA SHEETS. CONTRACTORS SHALL NOT DUPLICATE DESIGN/WORKING DRAWINGS OR CRITERIA DRAWINGS FOR USE AS SHOP DRAWINGS. DUPLICATED DRAWINGS OF THIS NATURE SHALL BE REJECTED.
- a. <u>MANUFACTURERS LITERATURE</u>: IMMEDIATELY AFTER AWARD OF THE CONTRACT, SUBMIT TO THE ARCHITECT FOR APPROVAL COPIES OF MANUFACTURER'S SPECIFICATIONS FOR ALL PRODUCTS TO BE USED, INCLUDING BUT NOT LIMITED TO INFORMATION REQUESTED BY THE ARCHITECT AND
- b. STRUCTURAL STEEL/MISCELLANEOUS METAL:
- 1. PROVIDE COMPLETE SHOP DRAWINGS SHOWING ALL ITEMS TO BE PROVIDED. 2. PREPARE COMPLETELY DETAILED SHOP DRAWINGS SHOWING DETAILS FOR CUTTING, FABRICATING, AND CONNECTING ALL PIECES.
- 3. WHERE CONNECTIONS ARE NOT SHOWN ON THE DRAWINGS, CONNECTIONS SHALL BE DESIGNED AND DETAILED ON THE SHOP DRAWINGS, AND SEALED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER IN THE STATE OF THE PROPOSED PROJECT, RETAINED AND PAID BY THE STEEL FABRICATOR.
- 4. PROVIDE SEPARATE SHOP DRAWINGS FOR ERECTION.
- 5. PREPARE SHOP DRAWINGS IN ACCORDANCE WITH AISC DETAILING FOR STRUCTURAL STEEL LATEST EDITION, USING A MARKING SYSTEM COMPATIBLE WITH, AND REFERENCED TO, THE MARKING SYSTEM USED ON THE DESIGN DRAWINGS.
- 6. INDICATE WELDING BY USING AWS SYMBOLS, SHOWING TYPE, SIZE AND LOCATION OF ALL WELDS. PROVIDE AUXILIARY VIEWS OF WELDS AS REQUIRED TO CLARIFY THE WELDING CONNECTIONS.
- 7. FORMALLY CHECK ALL SHOP DRAWINGS BEFORE FORWARDING TO ARCHITECT.
- C. <u>PAINTING AND FINISHING COLORS, SAMPLES, AND MANUFACTURERS LITERATURE</u>: IMMEDIATELY AFTER AWARD OF THE CONTRACT, SUBMIT TO THE ARCHITECT FOR APPROVAL SAMPLES OF WORK SHOWING COLORS, AND COPIES OF MANUFACTURER'S SPECIFICATIONS FOR ALL PRODUCTS TO BE USED INCLUDING BUT NOT LIMITED TO INFORMATION ON RECOMMENDED TEMPERATURE FOR APPLICATION, SPREADING RATES, AND DRY FILM THICKNESS OBTAINED OVER VARIOUS SURFACES AT THE MANUFACTURER'S RECOMMENDED SPREADING RATES, AND ADDITIONAL INFORMATION REQUESTED BY THE ARCHITECT AND OWNER.
- 4. <u>IDENTIFICATION</u>: SHOP DRAWING SUBMITTALS AND TRANSMITTAL LETTERS SHALL BE IDENTIFIED WITH THE TITLE AND LOCATION OF PROJECT, NAMES OF THE ARCHITECT, CONTRACTOR, AND SUBMISSION DATE.
- 5. <u>SHOP DRAWING SUBMITTALS</u>: GENERAL CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, ONE (1) REPRODUCIBLE AND THREE (3) PRINTS OF EACH DRAWING.
- <u>REVIEW OF SHOP DRAWINGS</u>:
- a. IT SHALL BE DISTINCTLY UNDERSTOOD THAT THE REVIEW OF SHOP DRAWINGS SHALL BE FOR GENERAL SCHEME ONLY. REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM THE NECESSITY OF CORRECTING, WITHOUT CHARGE, DETAILS ON THE DRAWINGS AND COMPLETED WORK FOUND DEFICIENT IN STRENGTH OR OTHERWISE FAULTY.
- b. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR "FIGURED DIMENSIONS" OF SHOP DRAWINGS.
- c. THE REVIEW OF SHOP DRAWINGS DOES NOT RELIEVE OR MODIFY THE RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS OR DIMENSIONS OR ERRORS CONTAINED IN THE SUBMITTAL OR QUANTITY COUNT. IT IS CLEARLY UNDERSTOOD THAT IN THE REVIEW PROCESS, NOTING OF SOME DISCREPANCIES, BUT OVERLOOKING OTHERS, DOES NOT GRANT THE CONTRACTOR PERMISSION TO PROCEED IN ERROR. REGARDLESS OF ANY INFORMATION CONTAINED IN THE SHOP DRAWINGS. LAYOUT DRAWINGS. CATALOG DATA AND BROCHURES. THE CONTRACT DOCUMENTS GOVERN THE WORK, AND ARE NEITHER WAIVED NOR SUSPENDED IN ANY WAY BY THE REVIEW OF SHOP DRAWINGS, LAYOUT DRAWINGS, CATALOG DATA AND BROCHURES.
- d. UPON COMPLETION OF THE PROJECT THE OWNER SHALL BE GIVEN ONE (1) SET OF REVIEWED SHOP DRAWINGS.
- AUTHORIZATION: UNLESS SPECIFICALLY REQUIRED BY THE ARCHITECT AND THE OWNER. NO MATERIALS SHALL BE ORDERED, DELIVERED, FABRICATED OR ERECTED UNTIL THE PROPER WRITTEN REVIEW BY THE ARCHITECT HAS BEEN RETURNED TO THE GENERAL CONTRACTOR.

- B. SAMPLES AND LETTERS OF INTENT:
- 1. GENERAL CONTRACTOR SHALL PREPARE A SUMMARY LIST OF THE SAMPLE SUBMITTAL REQUIREMENTS FOR REVIEW BY THE ARCHITECT AND THE OWN
- 2. SUBMITTALS OF MATERIAL SAMPLES AND LETTERS OF INTENT ARE NOT LIM BY THE VARIOUS SECTIONS OF THE SPECIFICATIONS. LETTERS OF MATERIALS, SPECIFICATIONS, AND INSTALLATION PROCEDURES. MATERIALS LETTERS OF INTENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PURCI MATERIALS. ALL MATERIAL SAMPLES SHALL BE REVIEWED BY THE ARCHITEC TO ERECTION OR FABRICATION OF MATERIAL.
- 3. SECURE AND DELIVER, AS REQUESTED BY THE OWNER, SAMPLES OF ALL THE WORK. ALL SAMPLES SHALL HAVE THE SAME FINISH AS THAT TO BE WORK AND, UNLESS OTHERWISE SPECIFIED HEREIN, FOUR (4) REPRE PROPOSED MATERIALS SHALL BE SUBMITTED FOR REVIEW.
- 4. SAMPLES SHALL BE ACCOMPANIED BY A LETTER REQUESTING APPROVA REQUIRED DATA ON SUCH SAMPLES.
- 5. ALL MATERIALS FURNISHED SHALL BE EQUAL TO THE REVIEWED SAMPLES.
- 6. ALL CASES WHERE THE CHOICE OF MORE THAN ONE (1) MAKE OR STYLE ( SPECIFIED, THE FINAL SELECTION OF THE ARTICLE OR MATERIAL RESTS WI

## END OF SECTION

- SECTION 01 45 23 TESTING A. WORK INCLUDED:
- 1. OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING LA TESTING SERVICES FOR CONCRETE, STEEL AND OTHER MATERIALS AS DIRECTED.
- 2. REQUIREMENTS FOR TESTING ARE DESCRIBED IN VARIOUS SECTIONS WHERE NO TESTING REQUIREMENTS ARE DESCRIBED, BUT THE OWNER DE IS REQUIRED, THE OWNER MAY REQUIRE TESTING TO BE PERFORM RECOGNIZED STANDARDS FOR TESTING.
- B. <u>RELATED WORK</u>: SELECTION OF TESTING LABORATORY: THE OWNER WILL SELECT AND NBIASED, AND RECOGNIZED INDEPENDENT COMMERCIAL TESTING AGENCY
- 2. PAYMENT FOR INITIAL TESTING SERVICES: THE OWNER WILL PAY FOR ALL I TESTING AGENCY AS SPECIFIED HEREIN.
- C. CODES AND STANDARDS: TESTING, WHEN REQUIRED, SHALL BE IN ACCORDA ODES AND REGULATIONS, AND WITH SELECTED ASTM INTERNATIONAL STAND/
- D. <u>TEST REPORTS AND RELATED INSTRUCTIONS</u>: PROMPTLY PROCESS AND DI-COPIES OF TEST REPORTS AND RELATED INSTRUCTIONS TO ENSURE ALL AND/OR REPLACEMENT OF MATERIALS WITH THE LEAST POSSIBLE DELAY TO PF
- E. PAYMENT FOR TESTING SERVICES: . <u>INITIAL SERVICES</u>: OWNER WILL PAY FOR ALL INITIAL TESTING SERVICES. INDICATE NON-COMPLIANCE WITH THE CONTRACT DOCUMENTS, THE COS ASSOCIATED WITH THAT NON-COMPLIANCE WILL BE DEDUCTED BY THE OWN SUM.
- 2. RETESTING: WHEN THE INITIAL TESTS INDICATE NON-COMPLIANCE WITH ALL SUBSEQUENT RETESTING OCCASIONED BY THE NON-COMPLIANCE SHAL SAME AGENCY, AND THE COSTS THEREOF WILL BE DEDUCTED BY THE OWN SUM
- CODE COMPLIANCE TESTING: INSPECTION AND TESTING REQUIRED BY LAW REGULATIONS, ORDERS OR APPROVALS OF PUBLIC AUTHORITIES OR A AUTHORITY, SHALL BE THE RESPONSIBILITY OF, AND SHALL BE PAID FOR BY TH OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS.
- G. TESTING LABORATORY DUTIES:
- . COOPERATION: COOPERATE WITH ARCHITECT/ENGINEER AND CONTRAC PERSONNEL AFTER DUE NOTICE
- 2. <u>PERFORM SPECIFIED INSPECTIONS, SAMPLING AND TESTING OF MATER</u> CONSTRUCTION:
- a. TAKE ALL SPECIMENS AND SAMPLES.
- b. PROVIDE ALL SAMPLING EQUIPMENT AND PERSONNEL c. MAKE ALL DELIVERIES OF SPECIMENS AND SAMPLES TO THE TESTING LA
- d. COMPLY WITH SPECIFIED STANDARDS.
- e. ASCERTAIN COMPLIANCE OF MATERIALS, AND WORK, WITH REQUI DOCUMENTS.
- 3. <u>IRREGULARITIES AND DEFICIENCIES</u>: IMMEDIATELY NOTIFY ARCHITE SUPERVISING ENGINEER, AND CONTRACTOR OF OBSERVED IRREGULARIT WORK OR PRODUCTS IN THE FIELD OR LABORATORY AS A RESULT OF TEST AND DEFICIENCIES ENCOUNTERED SHALL NOT GO UNRESOLVED. TESTING ARCHITECT/ENGINEER SHALL BE FOR FILE PURPOSES ONLY AND SHALL INCL THESE IRREGULARITIES AND/OR DEFICIENCIES.
- 4. <u>REPORTS OF TESTS AND INSPECTIONS</u>: PROMPTLY SUBMIT WRITTEN REF INSPECTION; ONE (1) COPY EACH TO OWNER'S SUPERVISING ENGINEER. OW AND THREE (3) COPIES TO ARCHITECT/ENGINEER. EACH REPORT SHALL INCI
- a. DATE ISSUED.

4. TEST REPORTS: FURNISH COPIES OF PRODUCTS TEST REPORTS AS REQUIRED.

B. <u>SAMPLES AND LETTERS OF INTENT</u> :	5. FURNISH INCIDENTAL LABOR AND FACILITIES:	
<ol> <li>GENERAL CONTRACTOR SHALL PREPARE A SUMMARY LIST OF THE SAMPLES AND LETTERS OF INTENT SUBMITTAL REQUIREMENTS FOR REVIEW BY THE ARCHITECT AND THE OWNER'S REPRESENTATIVE.</li> </ol>	a. TO PROVIDE ACCESS TO WORK TO BE TESTED.	
2. SUBMITTALS OF MATERIAL SAMPLES AND LETTERS OF INTENT ARE NOT LIMITED TO ITEMS SPECIFIED BY THE VARIOUS SECTIONS OF THE SPECIFICATIONS. LETTERS OF INTENT SHALL INDICATE	b. TO OBTAIN AND HANDLE SAMPLES AT THE SOURCE OF THE PRODUCT TO BE TESTED.	
MATERIALS, SPECIFICATIONS, AND INSTALLATION PROCEDURES. MATERIAL SAMPLES AND LETTERS OF INTENT SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PURCHASE OR INSTALLATION OF	<ul><li>c. TO FACILITATE INSPECTIONS AND TESTS.</li><li>d. FOR STORAGE AND CURING OF TEST SAMPLES.</li></ul>	
MATERIALS. ALL MATERIAL SAMPLES SHALL BE REVIEWED BY THE ARCHITECT AND/OR OWNER, PRIOR TO ERECTION OR FABRICATION OF MATERIAL.	6. NOTIFICATION TO LABORATORY: NOTIFY LABORATORY SUFFICIENTLY IN ADVANCE OF OPERATIONS TO	
3. SECURE AND DELIVER, AS REQUESTED BY THE OWNER, SAMPLES OF ALL MATERIALS TO BE USED IN	ALLOW FOR LABORATORY ASSIGNMENT OF PERSONNEL AND SCHEDULING OF TESTS.	
THE WORK. ALL SAMPLES SHALL HAVE THE SAME FINISH AS THAT TO BE USED IN THE COMPLETED WORK AND, UNLESS OTHERWISE SPECIFIED HEREIN, FOUR (4) REPRESENTATIVE SAMPLES OF PROPOSED MATERIALS SHALL BE SUBMITTED FOR REVIEW.	a. WHEN TESTS OR INSPECTIONS CANNOT BE PERFORMED AFTER SUCH NOTICE, REIMBURSE OWNER FOR LABORATORY PERSONNEL AND TRAVEL EXPENSES INCURRED DUE TO CONTRACTOR'S NEGLIGENCE.	
<ol> <li>SAMPLES SHALL BE ACCOMPANIED BY A LETTER REQUESTING APPROVAL, AND PRESENTING ALL REQUIRED DATA ON SUCH SAMPLES.</li> <li>ALL MATERIALS FURNISHED SHALL BE EQUAL TO THE REVIEWED SAMPLES.</li> </ol>	<ol> <li><u>CONTRACTOR'S</u> <u>CONVENIENCE</u> <u>TESTING</u>: FOR TESTING PERFORMED EXCLUSIVELY FOR CONTRACTOR'S CONVENIENCE, EMPLOY AND PAY FOR THE SERVICES OF A SEPARATE, EQUALLY QUALIFIED INDEPENDENT TESTING LABORATORY.</li> </ol>	
<ol> <li>ALL CASES WHERE THE CHOICE OF MORE THAN ONE (1) MAKE OR STYLE OF ARTICLE OR MATERIAL IS SPECIFIED, THE FINAL SELECTION OF THE ARTICLE OR MATERIAL RESTS WITH THE OWNER.</li> </ol>	8. <u>PAYMENT FOR TESTING SERVICES</u> : PAY FOR SERVICES OF OWNER SELECTED TESTING LABORATORY TO EXTENT PREVIOUSLY SPECIFIED HERE IN ARTICLE E PAYMENT FOR TESTING SERVICES.	
END OF SECTION	<ul> <li>J. <u>SCHEDULES FOR TESTING</u>:</li> <li>1. <u>TIME REQUIRED FOR TESTING</u>: BY ADVANCE DISCUSSION WITH THE TESTING AGENCY SELECTED BY THE OWNER, DETERMINE THE TIME REQUIRED FOR THE TESTING AGENCY TO PERFORM ITS TESTS AND TO ISSUE EACH OF ITS FINDINGS. PROVIDE ALL REQUIRED TIME WITHIN THE CONSTRUCTION</li> </ul>	
SECTION 01 45 23 - TESTING	SCHEDULE.	
<ul> <li>A. <u>WORK INCLUDED</u>:</li> <li>1. OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM TESTING SERVICES FOR CONCRETE, STEEL AND OTHER MATERIALS AS REQUIRED, SPECIFIED OR</li> </ul>	<ol> <li><u>CHANGE</u> IN <u>CONSTRUCTION</u> <u>SCHEDULES</u>: WHEN CHANGES OF CONSTRUCTION SCHEDULES ARE NECESSARY DURING CONSTRUCTION, COORDINATE ALL SUCH CHANGES OF SCHEDULES WITH THE TESTING AGENCY AS REQUIRED.</li> </ol>	E 200
DIRECTED. 2. REQUIREMENTS FOR TESTING ARE DESCRIBED IN VARIOUS SECTIONS OF THE SPECIFICATIONS. WHERE NO TESTING REQUIREMENTS ARE DESCRIBED, BUT THE OWNER DETERMINES THAT TESTING	END OF SECTION SECTION 01 70 00 - PROJECT CLOSEOUT	<b>ciates</b> <b>lanners</b> Avenue, suite 375
IS REQUIRED, THE OWNER MAY REQUIRE TESTING TO BE PERFORMED UNDER CURRENTLY RECOGNIZED STANDARDS FOR TESTING. B. RELATED WORK:	A. <u>WORK</u> INCLUDED: CLOSEOUT WORK SHALL INCLUDE PREPARATION FOR FINAL ACCEPTANCE, OCCUPANCY, AND SIMILAR ACTIONS EVIDENCING COMPLETION OF THE WORK. THE TIME OF CLOSEOUT	
1. SELECTION OF TESTING LABORATORY: THE OWNER WILL SELECT AND APPROVE A QUALIFIED,	IS RECOGNIZED TO BE DIRECTLY RELATED TO "SUBSTANTIAL COMPLETION", AND THEREFORE MAY BE EITHER A SINGLE TIME PERIOD FOR THE ENTIRE WORK OR A SERIES OF TIME PERIODS FOR INDIVIDUAL PARTS OF THE WORK WHICH HAVE BEEN CERTIFIED AS SUBSTANTIALLY COMPLETE AT DIFFERENT	cic 91 Cick & S
UNBIASED, AND RECOGNIZED INDEPENDENT COMMERCIAL TESTING AGENCY.	DATES. THAT TIME VARIATION (IF ANY) SHALL BE APPLICABLE TO OTHER PROVISIONS OF THIS SECTION, REGARDLESS OF WHETHER RESULTING FROM "PHASED COMPLETION" ORIGINALLY SPECIFIED BY THE	
2. <u>PAYMENT FOR INITIAL TESTING SERVICES</u> : THE OWNER WILL PAY FOR ALL INITIAL SERVICES OF THE TESTING AGENCY AS SPECIFIED HEREIN.	CONTRACT DOCUMENTS OR SUBSEQUENTLY AGREED UPON. B. PREREQUISITES FOR SUBSTANTIAL COMPLETION:	Wah Y Archilt Archilt Archilt NOVI, M PHONE 2.
C. <u>CODES AND STANDARDS</u> : TESTING, WHEN REQUIRED, SHALL BE IN ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS, AND WITH SELECTED ASTM INTERNATIONAL STANDARD SPECIFICATIONS.	1. GENERAL: PRIOR TO CERTIFICATION OF SUBSTANTIAL COMPLETION, SUBMIT ONE (1) SETS OF THE	<ul> <li>Aro</li> <li>Aro</li> <li>Aro</li> <li>Aro</li> <li>Aro</li> <li>Aro</li> <li>Mov</li> <li>PHO</li> <li>PHO</li> <li>PHO</li> </ul>
D. TEST REPORTS AND RELATED INSTRUCTIONS: PROMPTLY PROCESS AND DISTRIBUTE ALL REQUIRED	FOLLOWING DOCUMENTS TO THE ARCHITECT, AND LIST KNOWN EXCEPTIONS:	
COPIES OF TEST REPORTS AND RELATED INSTRUCTIONS TO ENSURE ALL NECESSARY RETESTING AND/OR REPLACEMENT OF MATERIALS WITH THE LEAST POSSIBLE DELAY TO PROGRESS OF THE WORK.	a. SUBMIT STATEMENT SHOWING FINAL ACCOUNTING OF CHANGES TO THE CONTRACT SUM.	
E. PAYMENT FOR TESTING SERVICES:	<ul> <li>b. ADVISE OF PENDING INSURANCE CHANGE-OVER REQUIREMENTS.</li> <li>c. SUBMIT GUARANTEES, WARRANTIES, WORKMANSHIP BONDS, MAINTENANCE AGREEMENTS, FINAL</li> </ul>	
<ol> <li><u>INITIAL SERVICES</u>: OWNER WILL PAY FOR ALL INITIAL TESTING SERVICES. WHEN THE INITIAL TESTS INDICATE NON-COMPLIANCE WITH THE CONTRACT DOCUMENTS, THE COSTS OF ALL INITIAL TESTS ASSOCIATED WITH THAT NON-COMPLIANCE WILL BE DEDUCTED BY THE OWNER FROM THE CONTRACT SUM.</li> </ol>	CERTIFICATIONS AND SIMILAR DOCUMENTS. SUBMIT LIST OF CONTACTS, INCLUDING COMPANY NAME, PERSONAL CONTACT, ADDRESS AND PHONE NUMBER FOR BUILDING EQUIPMENT AND COMPONENTS WHICH MAY REQUIRE PERIODIC SERVICE, INCLUDING ROOFING, ELEVATOR EQUIPMENT, MECHANICAL AND ELECTRICAL EQUIPMENT, AND FIRE PROTECTION SYSTEM.	
<ol> <li><u>RETESTING</u>: WHEN THE INITIAL TESTS INDICATE NON-COMPLIANCE WITH CONTRACT DOCUMENTS, ALL SUBSEQUENT RETESTING OCCASIONED BY THE NON-COMPLIANCE SHALL BE PERFORMED BY THE SAME AGENCY, AND THE COSTS THEREOF WILL BE DEDUCTED BY THE OWNER FROM THE CONTRACT SUM.</li> </ol>	d. OBTAIN AND SUBMIT OCCUPANCY PERMITS, OPERATING CERTIFICATES, FINAL INSPECTION/TEST CERTIFICATES, AND SIMILAR RELEASES ENABLING FULL AND UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES.	00000000000000000000000000000000000000
F. <u>CODE COMPLIANCE TESTING</u> : INSPECTION AND TESTING REQUIRED BY LAWS, ORDINANCES, RULES, REGULATIONS, ORDERS OR APPROVALS OF PUBLIC AUTHORITIES OR A LEGALLY CONSTITUTED AUTHORITY, SHALL BE THE RESPONSIBILITY OF, AND SHALL BE PAID FOR BY THE CONTRACTOR, UNLESS	e. SUBMIT RECORD (AS-BUILT) DRAWINGS, OPERATION AND MAINTENANCE MANUALS, SUBCONTRACTOR LISTING WITH ADDRESS, TELEPHONE NUMBER, AND E-MAIL ADDRESS. FINAL PROJECT PHOTOGRAPHS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.	OF MICHO
OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS. G. TESTING LABORATORY DUTIES:	2. DELIVER TOOLS, SPARE PARTS, EXTRA STOCKS OF MATERIALS, AND SIMILAR PHYSICAL ITEMS.	MIC OF
1. <u>COOPERATION</u> : COOPERATE WITH ARCHITECT/ENGINEER AND CONTRACTOR; PROVIDE QUALIFIED	3. MAKE FINAL CHANGE-OVER OF LOCKS AND TRANSMIT KEYS TO OWNER, AND ADVISE TO CHANGE-OVER IN SECURITY PROVISION.	
PERSONNEL AFTER DUE NOTICE.	4. COMPLETE START-UP TESTING OF SYSTEMS, AND INSTRUCTION OF OPERATING/MAINTENANCE	10000000000000000000000000000000000000
2. <u>PERFORM SPECIFIED INSPECTIONS, SAMPLING AND TESTING OF MATERIALS AND METHODS OF</u> <u>CONSTRUCTION</u> :	PERSONNEL. 5. DISCONTINUE (OR CHANGE OVER) AND REMOVE FROM THE PROJECT SITE TEMPORARY FACILITIES	
a. TAKE ALL SPECIMENS AND SAMPLES.	5. DISCONTINUE (OR CHANGE OVER) AND REMOVE FROM THE PROJECT SITE TEMPORARY FACILITIES AND SERVICES, ALONG WITH CONSTRUCTION TOOLS AND FACILITIES, MOCK-UPS, AND SIMILAR ELEMENTS.	
b. PROVIDE ALL SAMPLING EQUIPMENT AND PERSONNEL.	6. COMPLETE THE FINAL CLEANING.	
<ul> <li>c. MAKE ALL DELIVERIES OF SPECIMENS AND SAMPLES TO THE TESTING LABORATORY.</li> <li>d. COMPLY WITH SPECIFIED STANDARDS.</li> </ul>	7. TOUCH-UP, REPAIR, AND RESTORE MARRED EXPOSED FINISHES.	
e. ASCERTAIN COMPLIANCE OF MATERIALS, AND WORK, WITH REQUIREMENTS OF CONTRACT	8. SUBMIT FINAL METER READINGS FOR TEMPORARY UTILITIES, MEASURED RECORD OF STORED FUEL, AND SIMILAR DATA AS OF THE TIME OF SUBSTANTIAL COMPLETION OR WHEN OWNER TOOK	
DOCUMENTS.	POSSESSION OF, AND RESPONSIBILITY FOR, CORRESPONDING ELEMENTS OF THE WORK.	
3. <u>IRREGULARITIES</u> <u>AND</u> <u>DEFICIENCIES</u> : IMMEDIATELY NOTIFY ARCHITECT/ENGINEER, OWNER'S SUPERVISING ENGINEER, AND CONTRACTOR OF OBSERVED IRREGULARITIES OR DEFICIENCIES OF WORK OR PRODUCTS IN THE FIELD OR LABORATORY AS A RESULT OF TESTING. ALL IRREGULARITIES	C. <u>RECORD DOCUMENT SUBMITTALS</u> :	
AND DEFICIENCIES ENCOUNTERED SHALL NOT GO UNRESOLVED. TESTING REPORTS SUBMITTED TO ARCHITECT/ENGINEER SHALL BE FOR FILE PURPOSES ONLY AND SHALL INCLUDE THE RESOLUTION OF	<ol> <li><u>GENERAL</u>: SPECIFIC REQUIREMENTS FOR RECORD DOCUMENTS ARE INDICATED IN INDIVIDUAL SECTIONS OF THE SPECIFICATIONS. THE GENERAL REQUIREMENTS ARE INDICATED IN THE GENERAL CONDITIONS. WITH ADDITIONAL PROVISIONS INDICATED IN SECTION 01 01 00 - GENERAL SCOPE OF</li> </ol>	
THESE IRREGULARITIES AND/OR DEFICIENCIES.	WORK, AND SPECIFICATION DIVISIONS AS REQUIRED FOR MECHANICAL AND ELECTRICAL WORK, RESPECTIVELY. DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES; PROTECT FROM	I 폰 ∩
<ol> <li><u>REPORTS OF TESTS AND INSPECTIONS</u>: PROMPTLY SUBMIT WRITTEN REPORT OF EACH TEST AND INSPECTION; ONE (1) COPY EACH TO OWNER'S SUPERVISING ENGINEER, OWNER, AND CONTRACTOR, AND THREE (3) COPIES TO ARCHITECT/ENGINEER. EACH REPORT SHALL INCLUDE:</li> </ol>	DETERIORATION AND LOSS IN A SECURE FIRE-RESISTIVE LOCATION.	
a. DATE ISSUED.	2. <u>RECORD DRAWINGS</u> : a. CONTRACTORS SHALL KEEP AN ACCURATE RECORD OF "AS-BUILT" CONDITIONS AS THE WORK	
b. DETAILED LISTING.	PROGRESSES. MARK-UP DRAWINGS TO INDICATE VARIANCE, AT THE TIME THE VARIANCE OCCURS.	j ő \
c. PROJECT TITLE AND NUMBER.	b. MAINTAIN A WHITE PRINT SET (BLUE LINE OR BLACK LINE) OF COMPLETE CONSTRUCTION DOCUMENTS AND SHOP DRAWINGS, IN CLEAN UNDAMAGED CONDITION, FOR THE PURPOSE OF	
d. TESTING LABORATORY NAME, ADDRESS AND TELEPHONE NUMBER.	CHECKING AND RECORDING ALL INSTALLATIONS WHICH VARY SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. THE RECORDS SHALL INCLUDE CHANGES IN SIZES, LOCATIONS, AND DIMENSIONS, AS WELL AS ANY RESULTING FROM BULLETINS, CHANGE ORDERS, OR FIELD ORDERS.	
e. NAME AND SIGNATURE OF LABORATORY INSPECTOR.	c. MARK WHICHEVER DRAWING IS MOST CAPABLE OF SHOWING THE "AS-BUILT" CONDITION FULLY	
<ul> <li>f. DATE AND TIME OF SAMPLING OR INSPECTION.</li> <li>g. RECORD OF TEMPERATURE AND WEATHER CONDITIONS.</li> </ul>	AND ACCURATELY; HOWEVER, WHERE SHOP DRAWINGS ARE USED FOR MARK-UP, RECORD CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS.	Date Issued
h. DATE OF TEST.	d. MARK WITH RED ERASABLE PENCIL AND, WHERE FEASIBLE, USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS OF SEPARATE CATEGORIES OF WORK.	
i. IDENTIFICATION OF PRODUCT AND SPECIFICATION SECTION.	e. MECHANICAL AND ELECTRICAL CONTRACTORS SHALL GIVE PARTICULAR ATTENTION TO	Bids & Permit 12/23/2020
j. LOCATION OF SAMPLE OR TEST IN THE PROJECT.	CONCEALED WORK, AND RECORD ALL CONCEALED MECHANICAL AND ELECTRICAL SERVICES BY COLOR CODE. RECORD SHALL INCLUDE EXACT LOCATIONS OF PIPE, CONDUIT, WIRE AND CABLE,	
k. NAME OF PERSON TAKING SAMPLE OR MAKING TEST.	VALVES AND ALL UNDERGROUND OR OTHERWISE CONCEALED MECHANICAL AND ELECTRICAL WORK, PROPERLY DIMENSIONED FROM ADJACENT BUILDING WALLS AND WITH INVERT ELEVATIONS NOTED. RECORD SHALL INCLUDE ALL PRINCIPAL DIMENSIONS OF CONCEALED WORK	
I. TYPE OF INSPECTION OR TEST.	AND ANY SPECIAL NOTATIONS SUCH AS VALVE NUMBERS.	
m. RESULTS OF TESTS AND COMPLIANCE WITH CONTRACT DOCUMENTS.	f. OBTAIN A COMPLETE SET OF REPRODUCIBLES USING THE ARCHITECT'S ORIGINAL TRACINGS AND ANY SHOP DRAWINGS USED FOR RECORD DRAWINGS. TRANSFER ALL CORRECTIONS, CHANGES,	
<ul> <li>n. INTERPRETATION OF TEST RESULTS, WHEN REQUESTED BY ARCHITECT/ENGINEER.</li> <li>5. ADDITIONAL TESTS: PERFORM ADDITIONAL TESTS AS REQUIRED BY ARCHITECT/ENGINEER, OWNER'S</li> </ul>	AND REVISIONS FROM THE JOB RECORD SET TO THE REPRODUCIBLES AND ADD TO THE LEGEND "RECORD DRAWINGS" AND THE DATE OF PRINTING TO EACH REPRODUCIBLE. WITHIN THIRTY (30)	
SUPERVISING ENGINEER, OR OWNER.	DAYS OF COMPLETION OF JOB, PRINT ONE (1) COMPLETE SETS OF BLACKLINES OR BLUEPRINTS. THE REPRODUCIBLES AND BLACKLINES OR BLUEPRINTS SHALL BECOME THE PROPERTY OF THE OWNER.	
6. <u>SPECIAL INSPECTIONS</u> : SUBMIT WRITTEN "STATEMENT OF SPECIAL INSPECTIONS" AND A CERTIFIED WRITTEN REPORT OF EACH SPECIAL INSPECTION, TEST OR SIMILAR SERVICE; ONE (1) COPY EACH TO OWNER'S SUPERVISING ENGINEER, OWNER, AND CONTRACTOR, AND THREE (3) COPIES TO ARCHITECT/ENGINEER. SUBMIT ADDITIONAL COPIES OF EACH REPORT TO GOVERNING AUTHORITY, WILLEN THE AUTHORITY SO DIRECTS.	g. ORGANIZE RECORD DRAWING SHEETS INTO MANAGEABLE SETS, BIND WITH DURABLE PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER IDENTIFICATION ON THE COVER OF EACH SET.	
WHEN THE AUTHORITY SO DIRECTS. a. <u>REPORT DATA</u> : WRITTEN INSPECTION OR TEST REPORTS FOR THE PROJECT SHALL INCLUDE, BUT	3. MAINTENANCE MANUALS:	
SHALL NOT NECESSARILY BE LIMITED TO APPLICABLE SPECIAL INSPECTIONS INCLUDING INSPECTIONS PER BUILDING CODE SECTION 1704.	a. ORGANIZE MAINTENANCE AND OPERATING MANUAL INFORMATION INTO INDIVIDUAL BINDERS PROPERLY IDENTIFIED, INDEXED, AND THUMB TABBED; SUCH AS BUILDING [[TILE]] MAINTENANCE,	
H. LIMITATIONS OF AUTHORITY OF TESTING LABORATORY: LABORATORY IS NOT AUTHORIZED TO DO THE	ROOF MAINTENANCE. INCLUDE NAMES, ADDRESSES, TELEPHONE NUMBERS AND E-MAIL ADDRESSES OF EQUIPMENT VENDORS AND SUBCONTRACTORS. SUBMIT ONE (1) COPY TO THE	
FOLLOWING:	OWNER WITHIN THIRTY (30) DAYS OF SUBSTANTIAL COMPLETION TO BE RETAINED BY THE OWNER FOR HIS RECORDS AND USE.	Job Number
<ol> <li>APPROVE OR ACCEPT ANY PORTION OF THE WORK.</li> </ol>	b. INCLUDE INFORMATION SUCH AS EMERGENCY INSTRUCTIONS, SPARE PARTS LISTING, WARRANTIES AND GUARANTEES WITH NAME AND TELEPHONE NUMBER AND E-MAIL ADDRESS OF	5122
3. PERFORM ANY DUTIES OF THE CONTRACTOR.	CONTACT PERSON, WIRING DIAGRAMS, RECOMMENDED "TURN-AROUND" CYCLES, INSPECTION PROCEDURES, SHOP DRAWINGS, PRODUCT DATA, NAMES AND ADDRESSES OF EACH SUPPLIER,	
I. <u>CONTRACTOR'S RESPONSIBILITIES</u> :	NAMES AND ADDRESSES OF CONTRACTOR AND SUB-CONTRACTORS WITH CONTACT PERSON TELEPHONE NUMBER, E-MAIL ADDRESS, AND SIMILAR APPLICABLE INFORMATION.	SHEET TITLE
1. <u>GENERAL</u> : COOPERATE WITH LABORATORY PERSONNEL, PROVIDE ACCESS TO WORK, TO MATERIAL MANUFACTURER'S OPERATIONS.	c. BIND EACH MANUAL OF EACH SET IN A HEAVY-DUTY, 3-RING, VINYL-COVERED BINDER (NOT LESS THAN 2" CAPACITY), AND INCLUDE POCKET FOLDERS FOR FOLDED SHEET INFORMATION. MARK IDENTIFICATION ON THE FRONT AND SPINE OF EACH BINDER.	SPECIFICATIONS
2. <u>SAMPLES</u> : SECURE AND DELIVER TO THE LABORATORY ADEQUATE QUANTITIES OF REPRESENTATIONAL SAMPLES OF MATERIALS PROPOSED TO BE USED AND WHICH REQUIRE TESTING.		
<ol> <li><u>PRELIMINARY DESIGN MIXES</u>: WHERE APPLICABLE; PROVIDE TO THE LABORATORY THE PRELIMINARY DESIGN MIX PROPOSED TO BE USED FOR MATERIALS MIXES WHICH REQUIRE CONTROL BY THE TESTING LABORATORY.</li> </ol>		

Sheet Number