### STRUCTURAL SPECIAL INSPECTIONS PROGRAM

- SPECIAL INSPECTIONS ARE DEFINED AS THE PERIODIC OR CONTINUOUS OBSERVATION OF WORK, INCLUDING THE PERFORMANCE OF TESTS IN ORDER TO VERIFY SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. SPECIAL INSPECTIONS WILL BE REQUIRED AS SPECIFIED IN SECTION 1704 OF THE 2000 INTERNATIONAL BUILDING CODE AND PER THE REQUIREMENTS OF THE LOCAL BUILDING OFFICIAL.
- PERIODIC SPECIAL INSPECTIONS: PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING INSPECTION BY AN PPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
- CONTINUOUS SPECIAL INSPECTIONS: FULL-TIME OBSERVATION OF WORK REQUIRING INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- THIS PROGRAM CLARIFIES WHAT WORK REQUIRES SPECIAL INSPECTIONS AND THE PROCEDURE FOR INSPECTING AND REPORTING THAT WORK. IT DEFINES THE DUTIES AND RESPONSIBILITIES OF THE PROJECT OWNER. ARCHITECT OR ENGINEER OF RECORD, SPECIAL INSPECTOR AND GENERAL CONTRACTOR.
- THE STRUCTURAL SPECIAL INSPECTIONS PROGRAM IN NO WAY RELIEVES ANY PARTICIPANT FROM THE PROPER PERFORMANCE OF WORK ACCORDING TO CONTRACTS, PLANS, SPECIFICATIONS AND APPLICABLE BUILDING AND SAFETY

### II. PRECONSTRUCTION MEETING

- A PRECONSTRUCTION MEETING SHALL BE HELD FOR THE PURPOSE OF REVIEWING THE SPECIAL INSPECTION REQUIREMENTS FOR THAT PROJECT. THOSE REQUIRED TO ATTEND THE MEETING ARE THE OWNER OR AN INDIVIDUAL ACTING AS AN AGENT FOR THE OWNER, THE GENERAL CONTRACTOR AND THE SPECIAL INSPECTOR OF RECORD.
- THE INFORMATION IN THE STRUCTURAL SPECIAL INSPECTIONS PROJECT PROGRAM WILL BE REVIEWED TO VERIFY THAT ALL PARTIES HAVE A CLEAR UNDERSTANDING OF THE SPECIAL INSPECTIONS PROVISIONS AND THE INDIVIDUAL DUTIES AND RESPONSIBILITIES OF EACH PARTY. A COPY OF THE SPECIAL INSPECTIONS PROJECT PROGRAM SHALL BE MADE AVAILABLE ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

### **III. QUALIFICATIONS OF REQUIRED INSPECTIONS**

- THE REQUIREMENTS FOR THIS STRUCTURAL SPECIAL INSPECTIONS PROGRAM SHALL APPLY AS INDICATED IN THE SPECIFIC DIVISIONS OF THE STATEMENT OF SPECIAL INSPECTIONS.
- NON-STRUCTURAL ITEMS SPECIAL INSPECTIONS FOR NON-STRUCTURAL ITEMS SUCH AS EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS), SMOKE CONTROL SYSTEMS, SPRAYED FIRE RESISTANCE MATERIALS, MECHANICAL AND ELECTRICAL REQUIREMENTS, ETC. ARE NOT SPECIFIED IN THIS STRUCTURAL SPECIAL INSPECTIONS PROGRAM OR IN THE STATEMENT OF SPECIAL INSPECTIONS.
- SPECIAL CASES SPECIAL CASES WHICH, IN THE OPINION OF THE LOCAL BUILDING OFFICIAL INVOLVES UNUSUAL HAZARDS OR CONDITIONS, ARE ALSO NOT SPECIFIED IN THIS STRUCTURAL SPECIAL INSPECTIONS PROGRAM OR IN THE STATEMENT OF SPECIAL INSPECTIONS, AND SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS SET FOR BY THE LOCAL BUILDING OFFICIAL.
- IV. QUALIFICATION OF SPECIAL INSPECTORS
- ANY INDIVIDUAL PERFORMING THE INSPECTION AND/OR TESTING OF WORK REQUIRING SPECIAL INSPECTIONS SHALL BE APPROVED BY THE LOCAL BUILDING OFFICIAL. THE INSPECTOR'S PROFESSIONAL ENGINEER OR ARCHITECT RESPONSIBLE FOR SUPERVISING THE SPECIAL INSPECTOR'S WORK SHALL MAKE SUBMITTALS ON THE APPROPRIATE FORM.
- EXCEPT FOR PROFESSIONAL ENGINEERS OR ARCHITECTS REGISTERED IN THE STATE OF THE PROJECT'S LOCATION, SPECIAL INSPECTORS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE SHALL BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING QUALIFIED AND MAY BE OBTAINED BY WORKING EITHER FOR AN INSPECTION/TESTING AGENCY OR ENGINEERING FIRM AS A TECHNICIAN

- CURRENT ICBO REINFORCED CONCRETE SPECIAL INSPECTOR AND ACI CONCRETE FIELD TESTING TECHNICIAN -GRADE 1 CERTIFICATION OR, ENGINEER-IN-TRAINING (EIT) WITH TWO YEARS RELATED EXPERIENCE.
- CURRENT ICBO REINFORCED CONCRETE CERTIFICATION AND ICBO PRESTRESSED CONCRETE CERTIFICATION AND ACI CONCRETE FIELD TESTING TECHNICIAN - GRADE I CERTIFICATION PLUS TWO YEARS RELATED
- ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE

- CURRENT AWS CERTIFIED WELDING INSPECTOR, OR CURRENT ICBO STRUCTURAL STEEL AND WELDING CERTIFICATE PLUS TWO YEARS OF RELATED EXPERIENCE. OR CURRENT NDT LEVEL II OR III (PROVIDED THEY HAVE PREVIOUSLY BEEN CERTIFIED FOR NDT LEVEL II).
- CURRENT ICBO STRUCTURAL STEEL & WELDING CERTIFICATE AND TWO YEARS RELATED EXPERIENCE, OR ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.
- CURRENT ICBO STRUCTURAL MASONRY CERTIFICATE AND TWO YEARS RELATED EXPERIENCE, OR

#### ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE. SPRAYED FIRE-RESISTANT MATERIALS

- CURRENT ICBO SPRAY-APPLIED FIRE PROOFING CERTIFICATE. OR ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.
- CURRENT NICET LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/CONSTRUCTION, OR REGISTERED GEOLOGIST. OR ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE, OR
- GEOLOGIST-IN-TRAINING (GIT) WITH TWO YEARS RELATED EXPERIENCE.
- CURRENT NICET LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/CONSTRUCTION, OR REGISTERED GEOLOGIST, OR
- ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE. OR GEOLOGIST-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.
- CURRENT NICET LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/CONSTRUCTION, OR REGISTERED GEOLOGIST. OR
- ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.

# REGISTERED GEOLOGIST, OR

- CURRENT NICET LEVEL II CERTIFICATION IN GEOTECHNICAL ENGINEERING TECHNOLOGY/CONSTRUCTION, OR
- ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.

- CURRENT ICBO STRUCTURAL STEEL & WELDING CERTIFICATE PLUS TWO YEARS OF RELATED EXPERIENCE, OR ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.
- PRECAST: CURRENT ICBO REINFORCED CONCRETE CERTIFICATION OR PCI LEVEL II.
- BAR JOIST: SEE WELDING REQUIREMENTS.
- METAL BUILDING: SEE WELDING REQUIREMENTS. STRUCTURAL STEEL: SEE WELDING REQUIREMENTS.
- CERTIFICATION AS REQUIRED FOR WELDING. OR
- ENGINEER-IN-TRAINING WITH TWO YEARS RELATED EXPERIENCE.

# PROFESSIONAL ENGINEER OR ARCHITECT, OR

- AS RECOGNIZED ABOVE FOR THE SPECIFIC TYPE OF COMPONENT (STEEL, CONCRETE, MASONRY, ETC.).
- APPROVAL ON A CASE-BY-CASE BASIS.

## V. IMPLEMENTATION OF SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS AGENCY WHEN SPECIAL INSPECTIONS ARE REQUIRED, THE PROJECT OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED SPECIAL INSPECTION AGENCY TO INSPECT AND TEST THE WORK INDICATED WITHIN THE STATEMENT OF SPECIAL INSPECTIONS. UNDER NO CIRCUMSTANCES SHALL THESE SERVICES BE PROVIDED BY AN AGENCY RETAINED OR ENGAGED BY THE GENERAL CONTRACTOR OR ANY OF THEIR SUBCONTRACTORS. A QUALIFIED SPECIAL INSPECTIONS' AGENCY IS ONE THAT HAS BEEN APPROVED BY THE LOCAL BUILDING OFFICIAL.
- APPROVED FABRICATORS WHEN WORK IS BEING PERFORMED ON THE PREMISES OF A FACILITY/PLANT THAT IS APPROVED BY AN APPROVED NATIONALLY CERTIFIED ORGANIZATION, SHOP INSPECTIONS ARE NOT REQUIRED. THE APPROVED FABRICATOR SHALL CONTACT THE LOCAL BUILDING OFFICIAL TO DETERMINE THE OFFICIALS REQUIREMENTS FOR OBTAINING PRE-APPROVAL.
- QUALIFICATIONS ANY INSPECTION/TESTING AGENCIES RETAINED TO PROVIDE SPECIAL INSPECTIONS SHALL BE APPROVED BY THE LOCAL BUILDING OFFICIAL. AS A MINIMUM, AN ACCEPTABLE SPECIAL INSPECTION AGENCY SHALL HAVE THE FOLLOWING QUALIFICATIONS:
- BE UNDER THE DIRECT, FULL-TIME SUPERVISION OF A PROFESSIONAL ENGINEER OR ARCHITECT REGISTERED IN THE STATE OF THE PROJECT.
- B. ALL LABORATORY FACILITIES MUST MEET THE REQUIREMENTS OF ASTM SPECIFICATION E-329 AND/OR ASTM SPECIFICATION D-3740, AS APPLICABLE.
- EXCEPT FOR INDIVIDUALS WHO ARE PROFESSIONAL ENGINEERS OR ARCHITECTS REGISTERED IN THE STATE OF PROJECTS LOCATION, ALL TESTING TECHNICIANS, INSPECTORS AND ENGINEERS PERFORMING SPECIA INSPECTIONS SHALL MEET THE QUALIFICATIONS OUTLINED IN SECTION IV AND BE APPROVED BY THE LOCAL **BUILDING OFFICIAL.**

- THE GENERAL CONTRACTOR SHALL ENSURE THAT COPIES OF THE APPROVED PLANS, SPECIFICATIONS AND SHOP DRAWINGS ARE PROVIDED TO THE SPECIAL INSPECTOR PRIOR TO THE START OF THE WORK.
- IT IS THE SPECIAL INSPECTOR'S RESPONSIBILITY TO REVIEW THE APPROVED PLANS THOROUGHLY AND SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO ESTABLISH THAT ADEQUATE INFORMATION IS AVAILABLE TO CONDUCT THE REQUIRED INSPECTIONS AND TESTS. ALL ERRORS AND/OR OMISSIONS IN THE APPROVED PLANS THAT CREATE ANY FORM OF UNCERTAINTY OR AMBIGUITY SHALL BE RESOLVED THROUGH THE ARCHITECT OR ENGINEER OF RECORD.
- THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTIONS' AGENCY WHEN THE WORK IS READY FOR INSPECTION. A MINIMUM OF 24-HOURS' NOTICE SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO INSPECT THE WORK PRIOR TO CONCEALMENT. THE CONTRACTOR SHALL PROVIDE ACCESS TO AND MEANS FOR SAFE AND PROPER INSPECTION OF THE WORK.
- THE SPECIAL INSPECTOR SHALL PERFORM INSPECTIONS AND/OR TESTS OF THE WORK FOR CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND APPLICABLE PROVISIONS OF THE BUILDING CODE. IT IS THE SPECIAL INSPECTOR'S RESPONSIBILITY TO VERIFY THAT ALL WORK REQUIRING SPECIAL INSPECTIONS IS INSPECTED AND/OR TESTED PRIOR TO CONCEALMENT.
- AFTER EACH INSPECTION, THE SPECIAL INSPECTOR SHALL GIVE THE CONTRACTOR AN INSPECTION REPORT ON THE DAILY REPORT FORM. THE FORM SHALL BE COMPLETED AND SIGNED BY AN APPROVED SPECIAL INSPECTOR. ANY NON-CONFORMING ITEMS SHALL BE NOTED AS A "DISCREPANCY" AND BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR AND NOTED ON THE DAILY REPORT FORM.
- THE GENERAL CONTRACTOR SHALL CREATE A FILE FOR THE SPECIAL INSPECTOR'S DAILY REPORTS. THIS FILE SHALL BE LOCATED IN A CONSPICUOUS PLACE IN THE PROJECT TRAILER/OFFICE TO ALLOW REVIEW BY THE LOCAL BUILDING OFFICIAL'S INSPECTORS. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL THE SPECIAL INSPECTOR OF RECORD'S FINAL REPORT HAS BEEN REVIEWED AND APPROVED BY THE LOCAL BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR OF RECORD SHALL SUBMIT A REPORT TO THE LOCAL BUILDING OFFICIAL AND ENGINEER AND/OR ARCHITECT OF RECORD BIWEEKLY UNTIL ALL WORK REQUIRING SPECIAL INSPECTIONS IS COMPLETE. THIS REPORT SHALL BE SUBMITTED THE FIRST AND THIRD WEEK OF EACH MONTH AND SHALL BE SUBMITTED ON THE SPECIAL INSPECTIONS' REPORT FORM AND INCLUDE THE FOLLOWING:
- A BRIEF SUMMARY OF THE WORK PERFORMED DURING THE REPORTING TIME FRAME. • CHANGES AND/OR DISCREPANCIES WITH THE APPROVED DRAWINGS OR SPECIFICATIONS THAT WERE OBSERVED
- DURING THE REPORTING PERIOD. DISCREPANCIES WHICH WERE RESOLVED OR CORRECTED. A LIST OF NONCONFORMING ITEMS REQUIRING RESOLUTION.
- ALL APPLICABLE TEST RESULTS.
- WHEN THE WORK REQUIRING SPECIAL INSPECTIONS IS COMPLETED AND ALL NONCONFORMING ITEMS HAVE BEEN RESOLVED, THE GENERAL CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OF RECORD TO SUBMIT A FINAL SPECIAL INSPECTIONS' REPORT TO THE LOCAL BUILDING OFFICIAL, ENGINEER AND/OR ARCHITECT OF RECORD, AND GENERAL CONTRACTOR.

#### VII. SOILS AND FOUNDATIONS

- 1. VERIFICATION OF SOILS
- A. THE SUBGRADE SUPPORTING THE FOOTINGS OF BUILDINGS OR STRUCTURES SHALL BE INSPECTED IMMEDIATELY PRIOR TO THE PLACEMENT OF REINFORCED CONCRETE. THE SPECIAL INSPECTOR SHALL OBSERVE AND TEST ALL FOOTING EXCAVATIONS TO VERIFY CONFORMANCE WITH APPROVED PLANS AND/OR GEOTECHNICAL ENGINEER'S REPORT. THE EXCAVATION SHALL BE OF PROPER SIZE AND DEPTH AND FREE OF ANY LOOSE, DELETERIOUS OR FOREIGN MATERIAL
- WHERE UNSUITABLE BEARING CONDITIONS ARE OBSERVED, THE GEOTECHNICAL ENGINEER OF RECORD AND PROJECT ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY SO THAT REMEDIAL PROCEDURES CAN BE ESTABLISHED.

#### 2. EXCAVATION AND FILLING

- WHEN A PROJECT CONTAINS EXCAVATIONS WHOSE SLOPE LIMITS EXCEED GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND/OR STRUCTURAL FILL GREATER THAN ONE FOOT UNDER THE FOOTPRINT OF A FUTURE STRUCTURE, A SPECIAL INSPECTOR SHALL MONITOR THE OPERATIONS FOR CONFORMANCE WITH THE APPROVED PLANS AND/OR GEOTECHNICAL ENGINEER'S REPORT
- DURING THE ENGINEERED STRUCTURAL FILL. THE SPECIAL INSPECTOR SHALL PROVIDE SUFFICIENT OBSERVATION TO VERIFY THAT THE PREPARATION OF THE NATURAL GROUND AND PLACEMENT OF COMPACTED FILL IS BEING PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS
- EXCEPT WHERE PLACEMENT OF FILL IS LESS THAN 12" DEEP, AT LEAST ONE SPECIAL INSPECTOR SHALL BE PRESENT DURING THE ENTIRE PERIOD OF EACH DAY'S WORK TO MONITOR THE PLACEMENT OF ENGINEERED STRUCTURAL FILL SUPPORTING THE FOUNDATION. THE SPECIAL INSPECTOR SHALL MONITOR AND TEST ALL FILL TO DETERMINE WHETHER THE TYPE OF MATERIAL, MOISTURE CONTENT AND DEGREE OF COMPACTION ARE WITHIN THE RECOMMENDED LIMITS SET FORTH BY THE GEOTECHNICAL ENGINEER OF RECORD.
- PIERS AND PILES A SPECIAL INSPECTOR SHALL BE ON-SITE DURING THE CONSTRUCTION OF ALL PIERS, PILES AND PRESSURE-INJECTED FOOTINGS. WORK SHALL BE IN ACCORDANCE WITH THE APPROVED DRAWINGS AND AS SPECIFIED BY THE GEOTECHNICAL ENGINEER OF RECORD.

PIERS: THE SPECIAL INSPECTOR SHALL MONITOR CONSTRUCTION. TO MAINTAIN A PIER INSTALLATION RECORD. AND TO SUBMIT IT TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. ON THE RECORD INDICATE, FOR EACH PIER, ITS TYPE, SIZE, LOAD BEARING CAPACITY, TOP OF PIER ELEVATION, PLUMBNESS, LOCATION, AND PIER TIP ELEVATION. ADDITIONALLY, ANY PROBLEMS WITH ACHIEVED BEARING CAPACITY, TOLERANCE, ELEVATION, OR LOCATION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.

PILES: THE SPECIAL INSPECTOR SHALL MONITOR CONSTRUCTION, TO MAINTAIN A PILE DRIVING RECORD. AND TO SUBMIT TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. ON THE RECORD INDICATE, FOR EACH DRIVEN PILE, ITS DRIVING SEQUENCE NUMBER. TYPE, SIZE, LOAD BEARING CAPACITY, TOP OF PILE CUT-OFF ELEVATION, DRIVING PLUMBNESS, ACTUAL LOCATION, AND PILE TIP ELEVATION. ADDITIONALLY, ANY PROBLEMS WITH ACHIEVED BEARING CAPACITY, TOLERANCE, ELEVATION, OR LOCATION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.

## EARTH RETAINING STRUCTURES

- A. ANY SLOPE RETENTION SYSTEM DESIGNED TO RESIST ACTIVE EARTH PRESSURE SHALL HAVE SPECIAL INSPECTIONS. THE SPECIAL INSPECTOR SHALL PERFORM THE NECESSARY INSPECTIONS AND TESTS TO ENSURE THE SYSTEM IS INSTALLED PER THE APPROVED PLANS AND SPECIFICATIONS.
- AFTER A TEMPORARY EARTH-RETAINING STRUCTURE IS INSTALLED, A BIWEEKLY INSPECTION SHALL BE MADE THROUGHOUT THE LIFE OF THE PROJECT TO VERIFY THE SYSTEM IS PERFORMING AS INTENDED AND NO CHANGES HAVE OCCURRED. INSPECTION SCOPE AND FREQUENCY OF TEMPORARY EARTH-RETAINING STRUCTURES SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

## VIII. PRECAST CONCRETE

## INSPECTION OF FABRICATOR

- A. THE FOLLOWING PROGRAMS ARE CURRENTLY APPROVED BY THE ENGINEER OF RECORD TO PROVIDE CERTIFICATION OF FABRICATORS (THE CONTRACTOR SHALL OBTAIN THE LOCAL BUILDING OFFICIAL'S LIST OF
  - APPROVED FABRICATOR CERTIFICATIONS): INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO),
  - INTERNATIONAL CODE COUNCIL (ICC), PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI)
- WHEN PRECAST CONCRETE IS FABRICATED IN A PLANT WHICH IS NOT CERTIFIED BY AN APPROVED NATIONALLY RECOGNIZED ORGANIZATION, IN-PLANT INSPECTION IS REQUIRED AS FOLLOWS.
- a. THE SPECIAL INSPECTOR SHALL PROVIDE IN-PLANT INSPECTIONS DURING THE FABRICATION OF PRECAST FOR COMPLIANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND SHOP DRAWINGS. EACH PRECAST MEMBER SHALL BE INSPECTED FOR PROPER FORM DIMENSION, REINFORCING STEEL, PRESTRESSING TENDONS, EMBEDS AND LIFTING DEVICES PRIOR TO CONCRETE PLACEMENT. IT IS THE FABRICATOR'S RESPONSIBILITY TO NOTIFY THE SPECIAL INSPECTIONS' AGENCY PRIOR TO CONCRETE PLACEMENT AND TO HAVE THE REQUIRED PLANS ON-SITE FOR THE INSPECTION.
- THE SPECIAL INSPECTOR SHALL MONITOR THE PLACEMENT OF CONCRETE DURING CASTING AND OBTAIN SAMPLES FOR STRENGTH TESTS AS REQUIRED BY PROJECT SPECIFICATIONS. CONCRETE COMPRESSIVE STRENGTH RESULTS AND STRESSING DATA SHALL BE RECORDED FOR EACH MEMBER AND SUBMITTED WITH THE SPECIAL INSPECTIONS' REPORT.

## 2. ERECTION OF PRECAST CONCRETE

- A. ERECTED PRECAST CONCRETE MEMBERS SHALL BE INSPECTED FOR COMPLIANCE WITH THE APPROVED ERECTION DRAWINGS. THE SPECIAL INSPECTOR SHALL VERIFY PROPER MEMBER LOCATION AND THAT NO CRACKING, CHIPPING OR MARRING HAS OCCURRED DURING THE SHIPMENT AND ERECTION. ANY MODIFICATIONS OR DAMAGE TO PRECAST MEMBERS SHALL BE REPORTED AS A DISCREPANCY AND BROUGHT TO THE ATTENTION OF THE PRECAST DESIGN ENGINEER OF RECORD AND PROJECT ENGINEER OR ARCHITECT OF RECORD.
- B. PRECAST CONNECTIONS SHALL BE INSPECTED FOR CONFORMANCE WITH THE APPROVED PLANS AND PRECAST ERECTION DRAWINGS. CONNECTIONS, WHICH DEVIATE FROM THE PLANS DUE TO FIELD MODIFICATIONS OR MISALIGNMENT, SHALL BE REPORTED AS A DISCREPANCY AND ADDRESSED BY THE PRECAST DESIGN PROFESSIONAL AND ENGINEER OR ARCHITECT OF RECORD.

### IX. STRUCTURAL MASONRY

- THE SPECIAL INSPECTOR SHALL PROVIDE THE INSPECTION AND TESTING OF STRUCTURAL MASONRY FOR CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS, THE BUILDING CODE, AND IBC TABLE 1704.5.1.
- 2. PERIODIC INSPECTION SHALL BE PROVIDED FOR:
- VERTICAL, HORIZONTAL, AND LINTEL REINFORCEMENT GRADE, SIZE, AND SPACING
  - VERTICAL REINFORCEMENT LOCATION WITHIN WALL THICKNESS REINFORCEMENT SPLICE LENGTHS
- HORIZONTAL JOINT REINFORCEMENT AND BRICK TIE SPACING AND LOCATION COMPLIANCE WITH MINIMUM SEISMIC REINFORCEMENT REQUIREMENTS AS INDICATED ON THE DRAWINGS TYPE, SIZE, AND LOCATIONS OF ANCHORS
- CONSTRUCTION OF MORTAR JOINTS MASONRY CELLS FREE OF DEBRIS AND PROTRUSIONS; MINIMUM GROUT SPACE IN ACCORDANCE WITH ACI 530 COMPLIANCE WITH REQUIRED GROUTING PROCEDURES (LOW LIFT VS. HIGH LIFT) AS INDICATED ON THE DRAWINGS
- PROPER PROTECTION PROCEDURES FOR COLD, HOT, AND RAINY WEATHER
- CONTINUOUS INSPECTION SHALL BE PROVIDED FOR: GROUT PLACEMENT - CONFORMING TO REQUIREMENTS AS INDICATED ON THE DRAWINGS AND ACI 530
- PREPARATION OF PRISM TESTS AS REQUIRED FOR STRENGTH VERIFICATION WELDING OF REINFORCEMENT WHERE EXPLICITLY ALLOWED ON THE DRAWINGS
- THE UNIT STRENGTH METHOD SHALL BE USED TO DETERMINE THE COMPRESSIVE STRENGTH OF THE MASONRY UNITS. THE GENERAL CONTRACTOR SHALL GATHER AND SUBMIT TO THE STRUCTURAL ENGINEER OF RECORD THE CERTIFICATIONS REQUIRED IN ACI 530.1, SECTION 1.4 B.2.
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90
- BED JOINTS SHALL NOT EXCEED 5/8" IN THICKNESS MORTAR SHALL CONFORM TO ASTM C270, PROPERTY SPECIFICATION D. GROUT SHALL CONFORM TO ASTM C476 OR BE GREATER THAN 2000 PSI AS DETERMINED BY ASTM C1019
- MORTAR AND GROUT SHALL BE PROPERLY MIXED USING THE SPECIFIED MATERIAL PROPORTIONS PER THE MIX

### X. CAST-IN-PLACE CONCRETE

- PLACEMENT OF REINFORCING STEEL PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOB SITE, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE REINFORCING STEEL IS IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND SHOP DRAWINGS AND THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL CONFIRM THAT THE REINFORCING STEEL IS OF CORRECT SIZE AND GRADE AND ENSURE THAT THE PROPER SPACING, CLEARANCES. SPLICE LENGTHS AND EMBEDDED ITEMS HAVE BEEN PROVIDED. ALL REINFORCING STEEL SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE AND BE SECURED AGAINST DISPLACEMENT. WELDING OF REINFORCING STEEL, IF EXPLICITLY ALLOWED ON THE DRAWINGS, SHALL BE INSPECTED CONTINUOUSLY.
- 2. POST-TENSIONING STEEL, TENDONS
  - A. PRIOR TO THE PLACEMENT OF CONCRETE, THE TESTING AGENT SHALL VERIFY THAT THE PRESTRESSING STEEL HAS THE PROPER CHAIR HEIGHTS, TENDON PROFILES, CLEARANCES, AND STEEL ANCHORAGE AS DETAILED IN THE APPROVED PLANS, SPECIFICATIONS AND SHOP DRAWINGS.
  - B. THE SPECIAL INSPECTOR SHALL BE PRESENT DURING THE ENTIRE STRESSING AND GROUTING OPERATION. THE STEEL TENDONS SHALL BE STRESSED, WITH A CALIBRATED STRESSING RAM, AT THE SPECIFIED STRENGTH, USING THE PROCEDURE APPROVED BY THE ENGINEER OF RECORD. THE SPECIAL INSPECTOR SHALL CALIBRATE OR REVIEW CURRENT CALIBRATION DATA ON THE PROPOSED STRESSING EQUIPMENT AND VERIFY THAT THE CONCRETE MEETS THE MINIMUM REQUIRED COMPRESSIVE STRENGTH PRIOR TO POST-TENSIONING. TENDON ELONGATIONS SHALL BE RECORDED AND SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD. THE SPECIAL INSPECTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY TENDON BREAKS, STRESSING PROBLEMS, OR DEVIATIONS FROM THE SPECIFIED ELONGATIONS.
- BOLTS INSTALLED IN CONCRETE AN INSPECTION IS REQUIRED PRIOR TO AND DURING THE PLACEMENT OF CONCRETE AROUND BOLTS. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE BOLT SIZE, LOCATION AND EMBEDMENT LENGTH ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECS AND SHOP DRAWINGS.
- 4. PLACEMENT OF REINFORCED CONCRETE
- A. THE INSPECTOR SHALL PROVIDE A CONTINUOUS INSPECTION OF THE CONVEYING, DEPOSITING, AND CONSOLIDATION OF CONCRETE, FOR CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL OBSERVE PLACEMENT PROCEDURES FOR EVIDENCE OF SEGREGATION, POSSIBLE COLD JOINTS, DISPLACEMENT OF REINFORCING OR FORMS, AND PROPER SUPPORT OF EMBEDDED ITEMS. ANCHOR RODS. ETC. WHEN THE POINT OF DEPOSIT OF CONCRETE CANNOT BE OBSERVED BY THE INDIVIDUAL MONITORING. THE DISCHARGE FROM TRUCKS OR THE BATCH PLANT. ADDITIONAL PERSONNEL
- B. CONCRETE DELIVERY TICKETS SHALL BE CHECKED TO VERIFY THAT THE CLASS OF CONCRETE ORDERED IS BEING DELIVERED AND CONFORMS TO PROJECT PLANS. SPECIFICATIONS AND/OR CODE REQUIREMENTS.

## TESTING OF REINFORCED CONCRETE

SHALL BE PROVIDED.

- A. FOR EACH CLASS OF CONCRETE PLACED EACH DAY, THE SPECIAL INSPECTOR SHALL OBTAIN A SAMPLE FOR STRENGTH TESTS AT THE FREQUENCY STATED BELOW OR IN THE APPROVED SPECIFICATIONS. A STRENGTH TEST SHALL BE THE AVERAGE OF THE STRENGTHS OF TWO CYLINDERS, MADE FROM THE SAME SAMPLE OF CONCRETE LABORATORY CURED, AND TESTED AT 28 DAYS. ADDITIONAL CYLINDERS SHALL BE CAST IF ANY CHANGES IN THE MIX CONSISTENCY ARE NOTED OR WHEN DIRECTED BY THE ARCHITECT OR ENGINEER OF RECORD.
  - MINIMUM FREQUENCY SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY. NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE ARE FOR SLABS AND WALLS.

MINIMUM NUMBER - IF THE TOTAL VOLUME OF CONCRETE IS SUCH THAT THE FREQUENCY OF TESTING. AS

REQUIRED ABOVE, WOULD PROVIDE LESS THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED. SMALL VOLUME - WHEN THE TOTAL VOLUME OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CUBIC YARDS,

STRENGTH TESTS ARE NOT REQUIRED WHEN EVIDENCE OF SATISFACTORY STRENGTH IS SUBMITTED TO AND

- APPROVED BY THE BUILDING OFFICIAL AND ENGINEER OF RECORD. B. CONCRETE TEST CYLINDERS SHALL BE CAST, STORED AND TESTED IN ACCORDANCE WITH THE BUILDING CODE.
- STRENGTH OF AN INDIVIDUAL CLASS OF CONCRETE SHALL BE CONSIDERED SATISFACTORY IF BOTH OF THE FOLLOWING REQUIREMENTS ARE MET:
- a. EVERY ARITHMETIC AVERAGE OF ANY THREE CONSECUTIVE STRENGTH TESTS EQUALS OR EXCEEDS F'C.
- b. NO INDIVIDUAL STRENGTH TEST (AVERAGE OF TWO CYLINDERS) FALLS BELOW F'C BY MORE THAN 500 PSI. IF THE CONCRETE IS DEEMED UNSATISFACTORY, THE TESTING AGENT SHALL NOTIFY THE GENERAL CONTRACTOR AND THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY SO REMEDIAL ACTION CAN BE TAKEN IN ACCORDANCE WITH THE BUILDING CODE.
- C. SLUMP, AIR-CONTENT, AND TEMPERATURE TESTS SHALL BE CONDUCTED WHEN STRENGTH SPECIMENS ARE MADE OR AT THE OPTION OF THE INSPECTOR AS OFTEN AS NECESSARY FOR CONTROL CHECKS. ALL OTHER CONCRETE TESTING SHALL BE CONDUCTED AS STATED IN THE PROJECT SPECIFICATION AND PER ASTM STANDARDS.
- CURING AND PROTECTION THE SPECIAL INSPECTOR SHALL VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. INSPECTOR SHALL ALSO OBSERVE AND RECORD CURING PROCEDURES.

#### XI. STRUCTURAL STEE

- 1. INSPECTION OF FABRICATOR
  - A. THE FOLLOWING ORGANIZATIONS ARE APPROVED BY THE ENGINEER OF RECORD TO CERTIFY FABRICATORS (CONTRACTOR SHALL CONTACT THE LOCAL BUILDING OFFICIAL TO OBTAIN THE OFFICIAL'S LISTS OF APPROVED
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) CATEGORIES: CONVENTIONAL STEEL BUILDING STRUCTURES (SBD), COMPLEX STEEL BUILDING STRUCTURES (CBD)
  - INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO), INTERNATIONAL CODE COUNCIL (ICC), STEEL JOIST INSTITUTE (SJI).
  - B. STRUCTURAL STEEL, STEEL JOISTS AND METAL BUILDINGS FABRICATED ON THE PREMISES OF A FACILITY/PLANT NOT CERTIFIED BY AN APPROVED ORGANIZATION SHALL HAVE IN-PLANT SPECIAL INSPECTIONS AS FOLLOWS: THE SPECIAL INSPECTOR SHALL INSPECT THE WORK, DURING FABRICATION, FOR COMPLIANCE WITH THE APPROVED PLANS. SHOP DRAWINGS. SPECIFICATIONS AND THE BUILDING CODE. EACH MEMBER SHALL BE INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR PRIOR TO SHIPMENT. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO NOTIFY THE SPECIAL INSPECTIONS' AGENCY AND HAVE THE APPROVED PLANS ON-SITE FOR THE INSPECTION. THE GENERAL CONTRACTOR SHALL COORDINATE THIS INSPECTION. DAILY REPORTS INDICATING THE MEMBERS INSPECTED SHALL BE SUBMITTED TO THE LOCAL BUILDING OFFICIAL WITH THE BIWEEKLY SPECIAL INSPECTIONS'
- 2. FIELD WELDING OF STRUCTURAL STEEL

STAIRS AND RAILING SYSTEMS

3. FIELD BOLTING OF STRUCTURAL STEEL

- SPECIAL INSPECTIONS ARE REQUIRED FOR THE WELDING OF STRUCTURAL MEMBERS OR CONNECTIONS FOR COMPLIANCE WITH THE APPROVED PLANS, SHOP DRAWINGS, SPECIFICATIONS AND THE BUILDING CODE. THE SPECIAL INSPECTOR SHALL INSPECT THE EQUIPMENT, MATERIAL AND TECHNIQUE BEING EMPLOYED AND VERIFY THAT THE WELDING IS PERFORMED BY CERTIFIED WELDERS QUALIFIED IN THE PROCEDURE BEING USED. A VISUAL INSPECTION OF THE COMPLETED WORK SHALL BE MADE TO ENSURE PROPER TYPE, SIZE, LENGTH AND QUALITY OF THE WELDS. THE SPECIAL INSPECTOR SHALL CHECK QUALIFICATIONS OF WELDERS AT THE START OF WORK AND THEN MAKE FINAL INSPECTION OF ALL WELDS FOR COMPLIANCE. SINGLE PASS FILLET WELDS EXCEEDING 5/16 INCH SHALL BE IDENTIFIED ON THE DRAWINGS.
- INSPECTIONS ARE CLASSIFIED AS PERIODIC OR CONTINUOUS AS INDICATED BELOW:

PERIODIC (SEE NOTE BELOW LIST) SINGLE-PASS FILLET WELD GREATER THAN OR EQUAL TO SINGLE-PASS FILLET WELD LESS THAN 5/16" IN SIZE MULTI-PASS FILLET WELDS FLOOR AND ROOF DECK PUDDLE WELDS SHEAR STUD CONNECTORS COMPLETE AND PARTIAL PENETRATION GROOVE WELDS

NOTE: TO QUALIFY FOR EXEMPTION FROM CONTINUOUS INSPECTION AND BE ELIGIBLE FOR PERIODIC INSPECTIONS THE MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS MUST BE VERIFIED PRIOR TO THE START OF WORK, PERIODIC INSPECTIONS SHALL BE MADE OF THE WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS REQUIRED PRIOR TO PROJECT COMPLETION (OR PRIOR TO SHIPMENT OF SHOP WELDING).

- STRUCTURAL STEEL JOINTS USING ASTM A325 HIGH-STRENGTH BOLTS, ASTM A490 HEAT-TREATED HIGH-STRENGTH BOLTS OR EQUIVALENT FASTENERS SHALL HAVE SPECIAL INSPECTIONS. THE SPECIAL INSPECTOR SHALL MONITOR THE PREQUALIFICATION, INSTALLATION AND TIGHTENING OF BOLTED CONNECTIONS IN ACCORDANCE WITH THE APPROVED PLANS AND IBC TABLE 1704.3 (ITEMS 1 AND 2).
- WHEN BOLTED CONNECTIONS REQUIRE FULL PRETENSION, THE SPECIAL INSPECTOR SHALL PREQUALIFY THE PRETENSIONING METHOD AND VERIFY THAT THE SPECIFIED PROCEDURE WAS USED TO ACHIEVE THE DESIGN TENSION. A TENSION CALIBRATOR SHALL BE PROVIDED, AT THE JOB SITE, TO VERIFY FASTENER ASSEMBLIES, TRAIN INSTALLATION CREWS, AND CALIBRATE WRENCHES (IF CALIBRATED WRENCH METHOD IS USED).

BOLTS IN CONNECTIONS IDENTIFIED AS NOT BEING SLIP CRITICAL NOR SUBJECT TO DIRECT TENSION NEED NOT BE

INSPECTED FOR BOLT TENSION. THE SPECIAL INSPECTOR DOES NOT NEED TO BE PRESENT DURING THE ENTIRE

INSTALLATION AND TIGHTENING OPERATION PROVIDED THAT THE BOLTS ARE INSTALLED IN PROPERLY ALIGNED

HOLES AND TIGHTENED TO THE SNUG-TIGHT CONDITION. BOLTS REQUIRED TO BE TIGHTENED ONLY TO A SNUG-

TIGHT CONDITION ARE IDENTIFIED ON THE DRAWINGS. STEEL FRAME CONNECTIONS INSPECTION (TABLE 1704.3 - ITEMS 3 AND 6)- THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STRUCTURAL STEEL FRAME CONNECTIONS TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED PLANS AND SHOP DRAWINGS, SUCH AS BRACING, STIFFENING, MEMBER LOCATION AND PROPER

## XII. WOOD AND LIGHT STEEL FRAMING CONSTRUCTION

APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

## INSPECTION OF TRUSS FABRICATOR

- A. THE FOLLOWING ORGANIZATIONS ARE APPROVED BY THE ENGINEER OF RECORD TO CERTIFY FABRICATORS (CONTRACTOR SHALL CONTACT THE LOCAL BUILDING OFFICIAL TO OBTAIN THE OFFICIAL'S LISTS OF APPROVED CERTIFICATIONS)
- 1 WOOD TRUSSES MANUFACTURER SHALL BE AN ACTIVE PARTICIPANT IN THE QUALITY ASSURANCE INSPECTION PROGRAM" OF THE TRUSS PLATE INSTITUTE 1 LIGHT GAUGE STEEL TRUSSES - MANUFACTURER SHALL DISPLAY CONFORMANCE WITH THE "QUALITY"
- STANDARD" OF THE STEEL TRUSS AND COMPONENT ASSOCIATION TRUSS COMPONENTS FABRICATED ON THE PREMISES OF A FACILITY/PLANT NOT CERTIFIED BY AN APPROVED ORGANIZATION SHALL HAVE IN-PLANT SPECIAL INSPECTIONS AS FOLLOWS: THE SPECIAL INSPECTOR SHALL INSPECT THE WORK, DURING FABRICATION, FOR COMPLIANCE WITH THE APPROVED PLANS, SHOP DRAWINGS. SPECIFICATIONS AND THE BUILDING CODE. EACH MEMBER SHALL BE INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR PRIOR TO SHIPMENT. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO NOTIFY THE SPECIAL INSPECTIONS' AGENCY AND HAVE THE APPROVED PLANS ON-SITE FOR THE INSPECTION. THE GENERAL CONTRACTOR SHALL COORDINATE THIS INSPECTION. DAILY REPORTS INDICATING THE MEMBERS INSPECTED SHALL

BE SUBMITTED TO THE LOCAL BUILDING OFFICIAL WITH THE BIWEEKLY SPECIAL INSPECTIONS' REPORT.

INSPECTION OF FIELD CONSTRUCTION - SPECIAL INSPECTOR SHALL PERFORM PERIODIC INSPECTIONS DURING CONSTRUCTION TO ENSURE CORRECT MEMBER MATERIAL, SIZE, AND SPACING ARE BEING USED. INSPECTOR SHALL ALSO INSPECT CONNECTIONS AND FRAMING DETAILS TO ENSURE CONFORMANCE WITH THE CONTRACT DOCUMENTS. SPECIAL ATTENTION SHALL BE PAID TO THE LATERAL BRACING SYSTEM, INCLUDING PROPER DECK AND SHEATHING CONNECTION AND PROPER CONNECTIONS AT ENDS OF SHEAR WALLS.

## XIII. SEISMIC RESISTANCE

- THE SPECIAL INSPECTIONS SET FORTH IN IBC SECTION 1707 FOR SEISMIC RESISTANCE IS IN ADDITION TO THOSE REQUIRED IN SECTION 1704. THIS SPECIAL INSPECTION IS ONLY REQUIRED FOR STRUCTURES IN SEISMIC DESIGN CATEGORIES C, D, E OR F AND ONLY WHEN REQUIRED IN SECTION 1704.
- A. STEEL CONTINUOUS INSPECTION OF WELDING IN ACCORDANCE WITH AWS D1.1 IS REQUIRED FOR STEEL AND IS THE SAME AS IN IBC TABLE 1704.3, ITEM 5. B. STRUCTURAL WOOD - THE INSPECTIONS ARE TO ENSURE CONTINUITY OF LOAD PATH WITHIN THE SEISMIC LATERAL-FORCE-RESISTING SYSTEM AS NOTED ON THE DRAWINGS. PARTICULAR CARE SHOULD BE GIVEN TO THE NAILING OF

DIAPHRAGMS AND SHEAR WALLS. ALSO OF PARTICULAR IMPORTANCE IS THE CONNECTION OF DRAG STRUTS OR

- COLLECTORS TO THE SHEAR WALLS AND THE PROPER INSTALLATION AND TIGHTENING OF HOLD-DOWN BOLTS IN COLD-FORMED STEEL FRAMING - THE SPECIAL INSPECTOR TO VERIFY CONTINUITY OF LOAD PATH WITH THE
- SEISMIC LATERAL-FORCE-RESISTING SYSTEM, AS NOTED ON THE PLANS. STORAGE RACKS AND ACCESSES FLOORS - SPECIAL INSPECTOR TO ENSURE ANCHORAGE IS INSTALLED PER
- ARCHITECTURAL COMPONENTS INSPECTION OF EXTERIOR CLADDING AND VENEERS PER ARCHITECTURAL

# MECHANICAL AND ELECTRICAL COMPONENTS - INSPECTION OF COMPONENTS PER MECHANICAL AND ELECTRICAL

MANUFACTURERS DRAWINGS

- XIV. WIND RESISTANCE THE SPECIAL INSPECTIONS SET FORTH IN IBC SECTION 1706 FOR WIND RESISTANCE IS IN ADDITION TO THOSE REQUIRED IN SECTION 1704. THIS SPECIAL INSPECTION IS ONLY REQUIRED FOR STRUCTURES FOR WIND EXPOSURE A OR B, WHERE V=120 MPH; AND WIND EXPOSURE C OR D, WHERE V=110 MPH. PERIODIC SPECIAL INSPECTIONS SHALL BE PROVIDED FOR
- PORTIONS OF THE WIND RESISTING SYSTEM, AS NOTED BELOW: ROOF CLADDING AND ROOF FRAMING CONNECTIONS.

REQUIREMENTS OF SECTION 1609.1.4

- WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING. ROOF AND FLOOR DIAPHRAGM SYSTEMS, INCLUDING COLLECTORS, DRAG STRUTS AND BOUNDARY ELEMENTS. VERTICAL WIND-FORCE-RESISTING SYSTEMS. INCLUDING BRACED FRAMES, MOMENT FRAMES AND SHEAR WALLS WIND-FORCE-RESISTING SYSTEM CONNECTIONS TO THE FOUNDATION. FABRICATION AND INSTALLATION OF COMPONENTS AND ASSEMBLIES REQUIRED TO MEET THE IMPACT RESISTANCE
- EXCEPTION: FABRICATION OF MANUFACTURED COMPONENTS AND ASSEMBLIES THAT HAVE A LABEL INDICATING COMPLIANCE WITH THE WIND-LOAD AND IMPACT-RESISTANCE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.



LSHEAFFER

DATE DESCRIPTION OF

CHANGES

**REVISIONS:** 

**S-004** 

DRAWING NO.