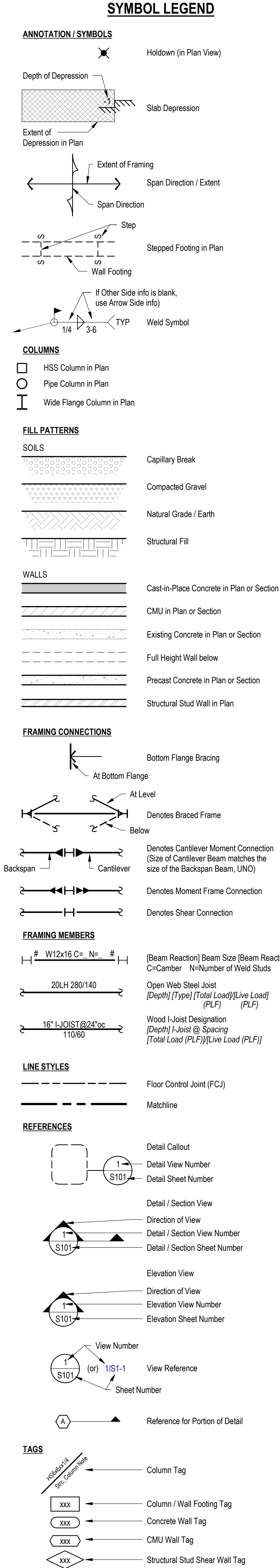


ABBREVIATIONS		ABBREVIATIONS	
*Code References		I	
ACI	AMERICAN CONCRETE INSTITUTE	IN	INCH, INCHES
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	INCL	INCLUDED, INCLUDING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	INSUL	INSULATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	INT	INTERIOR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IP	INTERLOCKING PUNCH
AWS	AMERICAN WELDING INSTITUTE	J	
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	JST	JOIST
IBC	INTERNATIONAL BUILDING CODE	JT, JTS	JOINT, JOINTS
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	K	
ICC-ES	ICC EVALUATION SERVICE	k, KIP	KILOPOUND
UBC	UNIFORM BUILDING CODE	ksi	KIPS PER SQUARE INCH
WABO	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS	L	
WPS	WELDING PROCEDURES SPECIFICATIONS	L	ANGLE or LENGTH
*MISC		LAT	LATERAL
-	DEGREE	LF	LINEAR FOOT
±	PLUS OR MINUS	LFRS	LATERAL FORCE RESISTING SYSTEM
Ø	DIAMETER	LGT, LONG	LONGITUDINAL
A		LIN	LINEAR
AB	ANCHOR BOLT	LL	LIVE LOAD
ADD	ADDENDUM	LLH	LONG LEG HORIZONTAL
ADDL	ADDITIONAL	LLV	LONG LEG VERTICAL
ADH	ADHESIVE	LOC	LOCATION
ADJ	ADJACENT	LSH	LONG SLOTTED HOLE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSL	LAMINATED STRAND LUMBER
AFF	ABOVE FINISH FLOOR	LVL	LAMINATED VENEER LUMBER
AHU	AIR HANDLING UNIT	M	
ALT	ALTERNATE	MAX	MAXIMUM
ANCH	ANCHOR, ANCHORAGE	MC	MISCELLANEOUS CHANNEL
APPROX	APPROXIMATE	MECH	MECHANICAL
AR	ANCHOR ROD	MEP	MECHANICAL, ELECTRICAL, PLUMBING
ARCH	ARCHITECT, ARCHITECTURAL	MEZZ	MEZZANINE
B		MF	MOMENT FRAME
BAL	BALANCE	MFR	MANUFACTURER
BF	BRACED FRAME	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	N	
BM	BEAM	N-GROUT	NON-SHRINK GROUT
BOD	BOTTOM OF DECK	NLB	NON-LOAD BEARING
BOF	BOTTOM OF FOOTING, FOUNDATION	NS	NEAR SIDE
BOS	BOTTOM OF STEEL	NTS	NOT TO SCALE
BOT	BOTTOM	O	
BP	BASE PLATE	OC	ON CENTER
BRB	BUCKLING RESTRAINED BRACE	OD	OUTSIDE DIAMETER
BRG	BEARING	OPNG	OPENING
BTWN	BETWEEN	OPP	OPPOSITE
C		OSB	ORIENTED STRAND BOARD
(c)	COLLECTOR	OWJ	OPEN WEB JOIST
C	CAMBER or CHANNEL	P	
CANT	CANTILEVER	PAF	POWDER ACTUATED FASTENERS
CIP	CAST-IN-PLACE	PERIM	PERIMETER
CJ	CONTROL JOINT	PERP	PERPENDICULAR
CJP	COMPLETE JOINT PENETRATION	PJP	PARTIAL JOINT PENETRATION
CL	CENTERLINE	PL	PLATE
CLR	CLEAR, CLEARANCE	PLF	POUNDS PER LINEAL FOOT
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
COL	COLUMN	PREFAB	PREFABRICATED
COMP	COMPOSITE or COMPRESSION	PRELIM	PRELIMINARY
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUOUS	PSL	PARALLEL, STRAND LUMBER
CONTR	CONTRACTOR	PT	POINT, POST TENSION
COORD	COORDINATE	Q	
CTR	CENTER, CENTERED	QTY	QUANTITY
D		R	
d	PENNY (NAIL)	REF	REFERENCE
D&E	DRILL AND EPOXY	REINF	REINFORCE(D), (ING), (MENT)
DBA	DEFORMED BAR ANCHOR	REQD	REQUIRED
DBL	DOUBLE	REV	REVISION, REVISED
DC	DEMAND CRITICAL	S	
DEMO	DEMOLISH, DEMOLITION	SCHED	SCHEDULE
DIA	DIAMETER	SECT	SECTION
DIAG	DIAGONAL	SEF	SQUARE FOOT
DIAPH	DIAPHRAGM	SHTG	SHEATHING
DIM	DIMENSION	SIM	SIMILAR
DL	DEAD LOAD	SOG	SLAB ON GRADE
DN	DOWN	SPA	SPACING
DTL	DETAIL	SPEC	SPECIFICATION
DWG, DWGS	DRAWING, DRAWINGS	SQ	SQUARE
DWL, DWLS	DOWEL, BOWELS	SS	STAINLESS STEEL
E		SSH	SHORT SLOTTED HOLE
EA	EACH	STD	STANDARD
EF	EACH FACE	STGD	STAGGERED
EL, ELEV	ELEVATION	STIFF	STIFFENER
ELECT	ELECTRICAL	STL	STEEL
EMBED	EMBEDMENT	STRUCT	STRUCTURAL
ENGR	ENGINEER	SYM	SYMMETRICAL
EOD	EDGE OF DECK	T	
EOS	EDGE OF SLAB	T&B	TOP AND BOTTOM
EQUIP	EQUIPMENT	T&G	TONGUE AND GROOVE
ES	EACH SIDE	TEMP	TEMPERATURE, TEMPORARY
EW	EACH WAY	THRD	THREAD, THREADED
EXIST, (E)	EXISTING	TO	TOP OF
EXP	EXPANSION	TOB	TOP OF BEAM
EXT	EXTERIOR	TOC	TOP OF CONCRETE
F		TOF	TOP OF FOOTING
FCJ	FLOOR CONTROL JOINT	TOP	TOP OF PARAPET
FDN	FOUNDATION	TOS	TOP OF STEEL
FFE	FINISH FLOOR ELEVATION	TOW	TOP OF WALL
FIN	FINISH	TRA	THREADED ROD IN ADHESIVE ANCHOR
FLR	FLOOR	TRANS	TRANSVERSE
FO	FACE OF	TYP	TYPICAL
FRMG	FRAMING	U	
FS	FAR SIDE	UNO	UNLESS NOTED OTHERWISE
FT	FOOT, FEET	UT	ULTRASONIC TEST
FTG	FOOTING	V	
G		VERT, V	VERTICAL
GA	GALUGE, GAGE	VIF	VERIFY IN FIELD
GALV	GALVANIZED	W	
GC	GENERAL CONTRACTOR	W, WF	WIDE FLANGE
GLB	GLUE LAMINATED BEAM	W	WITH
GR	GRADE, GRADING	W/O	WITHOUT
GWB	GYPNUM WALL BOARD	WCJ	WALL CONTROL JOINT
H		WO	WOOD
HAS	HEADED ANCHOR STUD	WF	WIDE FLANGE
HCP	HOLLOW CORE PLANK	WP, WPT	WORKING POINT
HDR	HEADER	WS	WELD STUD
HORIZ, H	HORIZONTAL	WT	WEIGHT or STRUCTURAL TEE CUT FROM WY SECTION
HSS	HOLLOW STRUCTURAL SECTION	WWF	WELDED WIRE FABRIC
HT	HEIGHT	X	
		XS	EXTRA STRONG
		XXS	DOUBLE EXTRA STRONG



CONSTRUCTION ADMIN		
Deferred Submittals		
• Concrete Mix		
• Metal Stud Systems		
• Temporary Shoring/Bracing of Existing Structure		
1. Deferred Submittal components are intended to be vendor designed and have not been designed by the Architect/Engineer. Refer to the drawings, the specifications, and the material sections of these general notes for design and submittal requirements.		
2. Deferred Submittal components have not been permitted under the base building application. The contractor shall submit the approved submittals for the Deferred Submittal components to the building official. Deferred Submittal components shall not be installed until the building official has permitted the Deferred Submittal.		
3. When the manufacturer is registered and approved to perform work without special inspection, the Contractor is to submit to the Building Official certificates of compliance from the manufacturers at the completion of manufacture stating that the work was performed in accordance with the approved construction documents.		
Structural Observations		
1. Structural Observation by the Structural Engineer is for the purpose of confirming general conformance of the construction with the design intent of the structure.		
2. Structural observations will occur as required to confirm general conformance of the construction with the design intent of the structure.		
3. Structural Observation is not intended to review the Contractor's construction procedures or the Contractor's conformance with the contract.		
4. Structural Observation is not intended to replace the required Special Inspection program.		
Special Inspection		
Special inspections shall be performed by an agency which:		
1. Is employed by the owner;		
2. Is qualified to perform special inspection activities in accordance with IBC Section 1704.2;		
3. Has been approved by the building official to perform special inspections.		
The special inspector shall provide written documentation of qualifications per IBC section 1704.2.1.		
The special inspector shall furnish inspection reports and a final report in accordance with IBC Section 1704.2.4.		
The construction or work for which special inspection is required shall remain accessible and exposed of special inspection purposes until completion of the required special inspections.		
Each contractor responsible for the construction of a main wind- or seismic force-resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspection.		
Fabricators		
The special inspector shall verify fabrication and implementation procedures of the following items per IBC Section 1704.2.5 unless the fabricator is registered and approved by the building official to perform such work without special inspection. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.		
1. Structural Steel - to include the requirements of AISC 360 Chapter N.		
2. Ready Mix Concrete		
3. Light-gage Steel Studs		
4. Light-gage Metal Deck		
SUBMITTALS TO SPECIAL INSPECTOR		
Welding	Structural Steel Light Gage Steel Reinforcing Welding	AWS D1.1 Prequalification AWS D1.3 Prequalification AWS D1.4 Prequalification WABO or AWS Certified
Bolting	High Strength Bolts	Manufacturer's Letter of Certification
CMU Walls	Block Units Grout Mortar	Manufacturer's Letter of Certification Manufacturer's Letter of Certification Manufacturer's Letter of Certification
Adhesive Anchor	Epoxy Adhesive	Manufacturer's Letter of Certification
Concrete	All Concrete Material	All trip tickets, including water/cement ratio in truck
Slab-on-Grade	Concrete	In place water/cement ratio test results
Metal Deck Topping	Concrete	In place water/cement ratio test results
Inspector to review submittals before installation begins. Inspector must inspect job from approved & stamped design & shop drawings, including all clarifications, both written & in drawing form.		
Wind Requirements (IBC 1705.11)		
Special inspections for wind resistance are not required.		

STATEMENT OF SPECIAL INSPECTIONS	
Seismic Requirements (IBC 1704.3.2)	
Special Inspections for Seismic Resistance (IBC 1705.12)	
Seismic Structural Steel and Steel Elements (IBC 1705.12.1, 1705.12.1.2 and AISC 341 Chapter J):	
Special inspection for structural steel seismic force-resisting systems (moment frames, braced frames, steel plate shear walls, etc) and structural steel elements (studs, collectors, chords, foundation elements, etc) shall be in accordance with the quality assurance (QA) requirements of AISC 341 and as noted below:	
1. The special inspector shall provide written documentation of practices and personnel as required by AISC 341 sections J3 and J4.	
2. Inspection of welding shall be in accordance with AISC 341 Section J6 and Tables J6-1, J6-2, and J6-3, inspection tasks prior, during, and after welding.	
3. Inspection of high-strength bolting shall be in accordance with AISC 341 Section J7 and Tables J7-1, J7-2, and J7-3, inspection tasks prior, during, and after bolting.	
4. Inspection of protected zones and reduced beam section moment frames shall be in accordance with AISC 341 section J8 and table J8-1	
5. Inspection of composite structures shall be in accordance with AISC 341 section J9 and table J9-1, J9-2, and J9-3, inspection tasks prior, during and after concrete placement.	
Structural Wood Construction (IBC 1705.12.2):	
Structural Wood seismic force-resisting systems (shear walls, diaphragms, collectors, drag struts, hold downs, etc) shall be inspected in accordance with IBC Section 1705.12.2.	
Structural Cold-Formed Steel Light Frame Construction (IBC 1705.12.3):	
Cold-formed steel light frame seismic force-resisting systems (shear walls, braces, diaphragms, collectors, drag struts, hold downs, etc) shall be inspected in accordance with IBC Section 1705.12.3.	
Designated Seismic Systems (IBC 1705.12.4):	
The special inspector shall examine architectural, mechanical, and electrical components, supports, and attachments in Table 13.2-1 of ASCE 7 and verify that the label, anchorage or mounting conforms to the certificate of compliance required by Sections 13.2.1 and 13.2.2 of ASCE 7.	
Architectural Components (IBC 1705.12.5):	
Periodic special inspection is required during erection and fastening of exterior cladding, interior and exterior veneer, and interior and exterior non-bearing walls over 30 feet in height above grade or walking surface, and for anchorage of access floors. Inspection and limitations to be per IBC Section 1705.12.5.	
Mechanical, Electrical and Plumbing Components (IBC 1705.12.6):	
Periodic special inspection is required during the installation and anchorage of the following items:	
1. Electrical equipment for emergency or standby power systems.	
2. Piping systems designed to carry hazardous materials and their associated mechanical units.	
3. Ductwork designed to carry hazardous materials.	
4. Vibration isolation systems where a nominal clearance of 1/4 inch (6.4 mm) or less is required between the equipment support frame and restraint.	
5. Minimum clearances of Mechanical and electrical equipment, including duct work, piping systems and their structural supports per IBC section 1705.12.6.6 and ASCE 7 Section 13.2.3.	
Storage Racks (1705.12.7):	
Periodic special inspection is required during the anchorage of storage racks 8 feet (2438 mm) or greater in height per IBC Section 1705.12.7.	
Seismic Isolation Systems (IBC 1705.12.8)	
Periodic special inspection is required during the fabrication and installation of seismic isolation systems in accordance with IBC Section 1705.12.8.	
Cold-Formed Steel Special Bolted Moment Frames (IBC 1705.12.9)	
Periodic special inspection is required during the installation of cold-formed special bolted moment frames in accordance with IBC Section 1705.12.9.	
Testing and Qualification for Seismic Resistance (IBC 1705.13)	
Seismic Structural Steel and Steel Elements (IBC 1705.13.1 and AISC 341):	
Nondestructive testing for welded joints within the structural steel seismic force-resisting system shall be in accordance with section J6.2 of AISC 341. This includes testing of k-area welds, CJP Groove welds, where base material is greater than 1.5" thick, welded splices, thermally cut surfaces or beam copes and access holes, reduced beam section repairs, and weld tab removals.	
Concrete Reinforcement (IBC 1705.12 Item 1 and 1705.12.1):	
Certified mill test reports indicating compliance with Section 20.2.2 of ACI 308 shall be provided for each shipment of reinforcement used in those elements designated in the drawings as shear walls, moment frames, and coupling beams.	
Seismic Certification of Designated Seismic Systems (IBC 1705.13.3)	
Manufacturer's certification of seismic qualification in accordance with Section 13.2.2 of ASCE 7 shall be provided for active mechanical and electrical equipment that must remain operable following the design earthquake ground motion and for components with hazardous substances.	
Seismic Certification of Architectural, Mechanical and Electrical Components (IBC 1705.13.2):	
Manufacturer's certification of seismic qualification by analysis, testing or experience data in accordance with ASCE 7 Section 13.2 as well as the applicable sections indicated in ASCE 7 Table 13.2-1 shall be provided for architectural, mechanical and electrical components, supports and attachments per IBC Section 1705.13.2.	
Wind Requirements (IBC 1705.11)	
Special inspections for wind resistance are not required.	

STATEMENT OF SPECIAL INSPECTIONS (cont.)	
Steel Construction (IBC 1705.2 and AISC 360 Chapter N)	
Special inspection for structural steel shall be in accordance with the quality assurance (QA) requirements of AISC 360.	
Inspection of welding shall be in accordance with;	
1. AISC 360 sections N4.2 and N5.4	
2. AISC 360 Table N5.4-1 - Inspection Tasks Prior to Welding	
3. AISC 360 Table N5.4-2 - Inspection Tasks During Welding	
4. AISC 360 Table N5.4-3 - Inspection Tasks After Welding	
5. Nondestructive testing of welded joints shall be in accordance with AISC 360 sections N4.3 and N5.5	
Inspection of high-strength bolting shall be in accordance with;	
1. AISC 360 sections N5.6	
2. AISC 360 Table N5.6-1 - Inspection Tasks Prior to Bolting	
3. AISC 360 Table N5.6-2 - Inspection Tasks During Bolting	
4. AISC 360 Table N5.6-3 - Inspection Tasks After Bolting	
Other inspection tasks, including inspection of anchor rods and embedments supporting structural steel shall be in accordance with AISC 360 N5.8.	
Inspection of composite construction, including steel deck, headed stud anchors shall be in accordance with;	
1. AISC 341 Section J9	
2. AISC 341 Tables J9.1 - J9.3 - Inspection of Steel Elements of Composite Construction Prior to Concrete Placement	
Quality assurance inspections, testing and report submittal shall be in accordance with AISC 360 sections N5.2 and N7.	
Cold-Formed Steel Deck (IBC 1705.2.2)	
Special inspections and qualification of welding special inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC and in accordance with IBC Section 1705.2.2.	
Open-Web Steel Joists and Joist Girders (IBC 1705.2.3)	
Special inspections for open-web steel joists and joist girders shall be in accordance with;	
1. IBC Section 1705.2.3	
2. IBC Table 1705.2.3 - Required Special Inspection of Open-Web Steel Joists and Joist Girders	
Cold-Formed Steel Trusses Spanning 60 feet or Greater (IBC 1705.2.4)	
Special inspections for cold-formed steel trusses with a span greater than 60 feet shall be in accordance with IBC Section 1705.2.4.	
Concrete Construction (IBC 1705.3)	
Special inspection for concrete construction shall be in accordance with IBC Table 1705.3 - Required Verification and Inspection of Concrete Construction.	
Masonry Construction (IBC 1705.4)	
Special inspections and tests for masonry construction shall be in accordance with the quality assurance requirements of TMS 402-16 section 1.3 and TMS 602-16 section 1.6.	
(see for risk categories 1, 2 or 3)	
1. Inspection and testing of CMU shall be in accordance with TMS 602-16 Table 3 and Table 4 (Level 2 Quality Assurance)	
2. Inspection of Masonry Veneer shall verify compliance with the approved submittals. (Level 1 Quality Assurance)	
(see for risk category 1)	
1. Inspection and testing of CMU shall be in accordance with TMS 602-16 Table 3 and Table 4 (Level 3 Quality Assurance)	
2. Inspection and testing of Masonry Veneer shall be in accordance with TMS 602-16 Table 3 and Table 4 (Level 2 Quality Assurance)	
Wood Construction (IBC 1705.5)	
Special inspections for wood construction shall be in accordance with IBC 1705.5	
Per IBC Section 1705.5.1, diaphragm special inspection shall include inspection of;	
1. Wood structural panel sheathing grade and thickness	
2. Nominal size of framing members at adjoining structural panel sheathing	
3. Fastener (nail or staple) diameter and length, the number of fastener lines, and the spacing between fasteners in each line and at edge margins	
Metal-plate-connected wood trusses;	
Special inspections of wood trusses with overall heights of 60 inches (1524 mm) or greater shall be performed to verify that the installation of the permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package per IBC Section 1705.5.2. For wood trusses with a clear span of 60 feet (18 288 mm) or greater, the special inspector shall verify during construction that the temporary installation restraint/bracing is installed in accordance with the approved truss submittal package per IBC Section 1705.5.2.	
Soils (IBC 1705.6)	
Special inspection for existing site soil conditions, fill placement and load-bearing requirements shall be in accordance with;	
1. IBC 1705.6	
2. IBC Table 1705.6 - Required Verification and Inspection of Soils	
Driven Deep Foundations (IBC 1705.7)	
Special inspections and tests during installation of driven deep foundation elements shall be in accordance with IBC Section 1705.7.	
Cast-in-Place Deep Foundations (IBC 1705.8)	
Special inspections and tests during installation of cast-in-place deep foundation elements shall be in accordance with IBC Section 1705.8.	
Helical pile Foundations (IBC 1705.9)	
Continuous special inspections during installation of helical pile foundation elements shall be in accordance with IBC Section 1705.9.	
Fabricated Items (IBC 1705.10)	
Special inspections of fabricated items shall be in accordance with IBC Section 1705.10.	
Sprayed Fire-Resistant Materials (IBC 1705.14)	
Special inspection for sprayed fire-resistant materials shall be in accordance with IBC Sections 1705.14.1 through 1705.14.6	
Mastic and Intumescent Fire-Resisting Coatings (IBC 1705.15)	
Special inspection for mastic and intumescent fire-resistant materials shall be in accordance with IBC Sections 1705.15 and AWCI 12-B	
Exterior Insulation and Finish Systems (IBC 1705.16)	
Special inspection for exterior insulation and finish systems shall be in accordance with IBC Sections 1705.16	
Fire-Resistant Penetrations and Joints (IBC 1705.17)	
Special inspection for fire-resistant penetrations and joints shall be in accordance with IBC Sections 1705.17, 1705.17.1, and 1705.17.2	
Smoke Control (IBC 1705.18)	
Special inspection for smoke control systems shall be in accordance with IBC Sections 1705.18.	