



**UNIVERSITY OF UTAH PROJECT DESIGN & CONSTRUCTION
CODE ANALYSIS FORM - 2021 INTERNATIONAL BUILDING CODE**

BUILDING IDENTIFICATION:	

CODE ANALYSIS COMPLETION DATE:	
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PART 1

APPLICABLE CODE	YEAR	APPLICABLE CODE	YEAR
International Building Code (IBC)	2021	ADA (ADAAG)	2010
International Existing Building Code	2021	ICC/ANSI A117.1	2017
International Fire Code (IFC)	2021	NFPA 101 Life Safety Code (State)	2018
International Mechanical Code (IMC)	2021	NFPA 101 Life Safety Code (Federal)	2015
International Energy Conservation Code (IECC)	2021	NFPA 99 Health Care Facilities Code	2018
International Plumbing Code (IPC)	2021	FGI Health Care Guidelines	2018
National Electric Code	2020		

PART 2 PLEASE NOTE - 2021 IBC INCLUDES A MODIFIED ALLOWABLE AREA TABLE - SEE TABLE 506.2

Occupancy Group (Chapter 3)			(T601) Const. Type (*1)	Area (506)*5				Height (T504.3) *6		Stories (T504.4) *6		(508) Mixed Use Type (*3)	(508.4.2) *4 Area Ratio
Floor	Name	Group		Tabular NS (T506.2)	Tabular SM or S1 (T506.2)	Aa (*2)	Actual ft ²	Tabular T504.3 ft	Actual ft	Tabular (T504.4)	Actual		
Basement - Floor Total:													
1st - Floor Total:													
2nd Floor Total:													
3rd Floor Total:													
Building Total (*2)													

(*1) Construction Type shall be the most restrictive occupancy requirement for the entire building (508.3 & 508.4)
 (*2) Area- Total building Area dependent on Single or Mixed Occupancy Building (506.2.1 through 506.2.4) & Frontage Increase (506.3)
 (*3) Mixed Use - IAO=Incidental Accessory Occupancy / AO=Accessory Occupancy / SO=Separated Occupancies / NSO=Nonseparated Occupancies; gsf= gross square feet; nsf= net square feet; (E) = Existing
 (*4) IBC Section 508.4.2: In each story, the building area shall be such that the sum of the ratios of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.
 (*5) 506.2.4 Mixed-occupancy, multistory buildings more than 3 stories above grade plan: Total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories shall not exceed three for NS and four for S.
 (*6) IBC 504.2 Mixed occupancy: In a building containing mixed occupancies in accordance with Section 508, no individual occupancy shall exceed the height and number of story limits specified in this section for the applicable occupancies.

PART 3 - ALLOWABLE AREA DETERMINATION (506.2.1 through 506.2.4 & 506.3)

FRONTAGE INCREASE: $I_f = [F/P - 0.25]W/30 =$ (Provide Analysis)

SINGLE-OCCUPANCY, ONE STORY BUILDINGS (506.2.1):

Allowable Area: $A_a = A_t + (NS \times I_f) =$ (Provide Analysis)

Level X, X Occupancy: $A_a = A_t + (NS \times I_f) = SF$

MIXED-OCCUPANCY, ONE-STORY BUILDINGS (506.2.2):

Allowable Area: $A_a = A_t + (NS \times I_f)$ and provisions of Section 508.1 = (Provide Analysis)

Level X, X Occupancy: $A_a = A_t + (NS \times I_f) = SF$

SINGLE-OCCUPANCY, MULTISTORY BUILDINGS (506.2.3):

Allowable Area: $A_a = [A_t + (NS \times I_f)] \times S_a =$ (Provide Analysis)

Level X, X Occupancy: $A_a = [A_t + (NS \times I_f)] \times S_a = SF$

S_a = Actual number of building stories above grade plane, not to exceed three. For buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four.

MIXED-OCCUPANCY, MULTISTORY BUILDINGS (506.2.4):

Allowable Area: $A_a = [A_t + (NS \times I_f)] =$ (Provide Analysis)

Level X, X Occupancy: $A_a = [A_t + (NS \times I_f)] = SF$

>3 Story Bldgs: Total Bldg Area = Aggregate SUM of the Ratios (Actual Floor Area / Allowable Floor Area)
= <3 for NS and <4 for S:

Aggregate Sum of the Ratios: = X

UNLIMITED AREA (507) =

SPECIAL PROVISIONS (510) =

PART 4 - GRADE PLANE ELEVATION & HEIGHT & STORIES (504)

BUILDING WALL	AVERAGE ELEVATION	GRADE PLANE ELEVATION
NORTH		
SOUTH		
EAST		
WEST		
TOTAL BUILDING G.P.E.		

STORY	FINISHED FLOOR ELEVATION	STORY ABOVE G.P.E.	HEIGHT
BASEMENT			
1 ST FLOOR			
2 ND FLOOR			
3 RD FLOOR			
TOTAL BUILDING		X-STORIES	X'-X"

PART 5 - AUTOMATIC FIRE SPRINKLER (903 & T903.2.11.6)

ITEM	REFERENCE	COMMENTS
Required		

PART 6 - OCCUPANCY SEPARATIONS (T508.4)

OCCUPANCY/OCCUPANCY	RATING	IBC/UL DESIGN #

PART 7 - OTHER BUILDING ELEMENTS (T601 and T602)

ELEMENT	MATERIAL	RATING	IBC/UL DESIGN #
Interior Bearing Wall			
Interior Non-Bearing Wall			
Structural Frame			
Exterior Structural Frame			
Shaft Enclosure ^{a,b}			
Floor / Ceiling Assembly			
Roof / Ceiling Assembly			
Vertical Exit Enclosure ^{a,b}			

a. Fire-resistance rating not less than the floor assembly penetrated (713.4) (1023.2).

b. 2 hours where connecting four stories or more and 1 hour where connecting less than four stories, including basements. (713.4) (1023.2).

PART 8 - EXTERIOR WALL & OPENING PROTECTION (T705.8)

WALL LOCATION	PROTECTED	UNPROTECTED	PARAPET REQ'D (705.11)
NORTH			
SOUTH			
EAST			
WEST			

PART 9 - EXIT REQUIREMENTS

FLOOR LEVEL	ROOM OCCUPANCY GROUPS	AREA	OCCUPANT LOAD FACTOR (T1004.5)	# OF OCCUPANTS (1004)	# OF EXITS (1006)	REQ'D EGRESS WIDTH (1005)	REQ'D STAIR WIDTH (1005.3)	REQ'D AISLE WIDTH (1018)	COMMON PATH OF TRAVEL DISTANCE (T1006.2.1) (Worst case)	TOTAL TRAVEL DISTANCE (1017) (Worst case)
Level A Total:										
Level 1 Total:										
Level 2 Total:										
Level 3 Total:										
Building Total:										

PART 10 - ADDITIONAL REQUIREMENTS

ACCESSIBLE MEANS OF EGRESS (1009):	
ACCESSIBLE ROUTE (1104 & INTERNATIONAL EXISTING BUILDING CODE):	
SPECIAL OCCUPANCY REQUIREMENTS (CHAPTER 4):	

PLUMBING FIXTURES (T 2902.1)

TOTAL NUMBER OF REQUIRED FIXTURES:											
OCCUPANCY	OCC. LOAD	WATER CLOSETS					LAVATORIES			DRINKING FOUNTAINS	
		RATIO	MEN	Urinals	RATIO	WOMEN	RATIO	MEN	WOMEN	RATIO	TOTAL
A3		1 PER 125	0.0	0.0	1 PER 65	0.0	1 PER 200	0.0	0.0	1 PER 1000	0
B		1 PER 25 <50	0.0	0.0	1 PER 25 <50	0.0	1 PER 40 <80	0.0	0.0	1 PER 100	0
		1 PER 50 >50	0.0	0.0	1 PER 50 >50	0.0	1 PER 80 >80	0.0	0.0		
E		1 PER 50	0.0	0.0	1 PER 50	0.0	1 PER 50	0.0	0.0	1 PER 100	0
I2 - Hosp, Ambul		1 PER ROOM			1 PER ROOM		1 PER ROOM			1 PER 100	0
I2 - Staff		1 PER 25	0.0	0.0	1 PER 25	0.0	1 PER 35	0.0	0.0	1 PER 100	0
I2 - Visitors		1 PER 75	0.0	0.0	1 PER 75	0.0	1 PER 100	0.0	0.0	1 PER 500	0
S1, S2		1 PER 100	0.0	0.0	1 PER 100	0.0	1 PER 100	0.0	0.0	1 PER 1000	0
TOTAL REQUIRED			0	0		0		0	0		0
TOTAL PROVIDED			0	0		0		0	0		0

PART 11 – BUILDING PERFORMANCE PARAMETERS:

Include a summary of building performance parameters (design temperatures for spaces, humidity control set-points, special ventilation requirements, lighting levels for spaces, etc.) with the Code Summary. Also, include structural calculations and energy calculations.

PART 12 – DEFERRED SUBMITTALS, NONSTRUCTURAL COMPONENTS CHECKLIST, & SPECIAL INSPECTIONS LIST:

Provide the following information in the Code Analysis, deleting non-applicable sections.

LIST OF DEFERRED SUBMITTALS

ITEM	DRAWING REFERENCE	SPECIFICATION REFERENCE
FIRE SPRINKLER & ALARM DRAWINGS		
SEISMIC RESTRAINT DESIGNS OF NON-STRUCTURAL COMPONENTS FOR ALL SYSTEMS LISTED		

GUIDELINES FOR SEISMIC RESTRAINT OF NONSTRUCTURAL COMPONENTS & DEFERRED SUBMITTALS

1. General Comments:
 - a) These guidelines shall apply to all nonstructural components as required by the IBC 1613.1. Nonstructural components consist of architectural, mechanical and electrical components that are permanently attached to the primary structure.
 - b) When a change in occupancy occurs that causes an existing building to be reclassified to a higher Occupancy Category per IBC Table 1604.5, all existing nonstructural components shall be confirmed to meet the seismic restraint requirements of Chapter 13 in ASCE 7.
 - c) These guidelines define the minimum submittal requirements to obtain University of Utah approval for seismic restraint of nonstructural components. The guidelines noted herein shall not cancel or set aside more conservative requirements specified by the design professional in responsible charge.
 - d) All references made to the IBC or ASCE 7 latest editions adopted by the State of Utah.
2. Checklist Requirements:
 - a) All University of Utah projects shall have the "Nonstructural Component Checklist" (attached below) clearly shown on the front of the construction plans.
 - b) Each item within the checklists shall have the appropriate box checked and comments shall be provided noting the particular component(s) that require seismic restraint.
 - c) The "Not Required" box should only be checked if the component is exempt from requiring seismic restraint by Section 13.1.4 of ASCE 7, or if the component in question will not be provided as part of the project.
 - d) If the "Deferred Submittal" box is checked, the additional requirements of Section 6 included in this handout must be met.
3. Submittal Requirements:
 - a) The seismic restraint requirements for nonstructural components may be provided with the original construction documents submitted to University of Utah or may be submitted later as a deferred submittal. Whether provided with the original plans or later, the requirements of this section must be met.
 - b) Seismic restraint submittals shall include construction documents meeting the requirements of Section 4 of this handout as well as supporting design information discussed in Section 5 of this handout.
4. Construction Documents:
 - a) The construction documents must include seismic restraint details providing specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners.
 - b) The construction documents must note the special inspection and testing requirements for the seismic restraint of nonstructural components per Section 13.2.7 of ASCE 7.
 - c) University of Utah will accept products that have been tested and listed under the ICC Evaluation Service Program, as long as they are installed in accordance with the provisions and limitations of the ICC Listing Report.
 - d) The requirements for anchorage/bracing of nonstructural components cannot be satisfied by a general reference to Design Manuals. Design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of the IBC.
 - e) Rod hangers shall not be used as seismic supports unless the length of the hanger from the supporting structure is 12 in. or less. Rod hangers shall not be constructed in a manner that subjects the rod to bending moments.
5. Seismic Restraint Design Requirements:
 - a) Per IBC 1613.1, the seismic restraint of nonstructural components shall meet the requirements of ASCE 7. If the component in question is exempt by Section 13.1.4 of ASCE 7, a submittal noting the seismic restraint of that particular component is not required.
 - b) The seismic restraint design must meet the requirements listed in Table 13.2-1 of ASCE 7. These requirements may be met by providing either a project-specific design prepared by a registered design professional, or a manufacturer's certification that the component is seismically qualified.
 - c) A certificate of seismic qualification by the manufacturer must be accompanied by one of the following items:
 - i) An engineered analysis conforming to the requirements of Chapter 13 of ASCE 7.
 - ii) Testing by a nationally recognized testing standard procedure such as ICC-ES AC 156. The substantiated seismic design capacities shall exceed the seismic demands determined by Section 13.3 of ASCE 7.
 - iii) Experience data conforming to a nationally recognized procedure. The substantiated seismic design capacities shall exceed the seismic demands determined by Section 13.3 of ASCE 7.

- d) The following seismic restraint publications shall be considered "Accepted Engineering Practice":
- i) Seismic Restraint Manual, Guidelines for Mechanical Systems (3rd Edition, published by SMACNA)
 - ii) Guidelines and details that have been evaluated and reported under the International Code Council Evaluation Service Program (ICC-ES).
 - iii) Seismic restraint manuals, guidelines and details that have been approved by the California Office of Statewide Health Planning and Development (OSHPD) under their pre-approval program for seismic restraint systems. Approval by the University of Utah Building Official to use this reference is required prior to proceeding with design.
6. Deferred Submittals:
- a) Deferred submittals of seismic restraint of nonstructural components must be submitted to the UNIVERSITY OF UTAH Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient, additional time may become necessary.
 - b) Deferred submittals shall be clearly noted on the construction plans as required by IBC in Chapter 1. Prior to submitting to the UNIVERSITY OF UTAH Building Official, the deferred submittal must follow the protocol outlined in the section entitled "Deferred Submittals" in the IBC Chapter 1. Please note on the plans that no deferred submittal elements shall be installed until University of Utah approval has been received.
 - c) If seismic restraints of nonstructural components are installed prior to receiving University of Utah approval, they shall not be covered or concealed until plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	NOT REQUIRED	ON CONST DOCUMENTS	DEFERRED SUBMITTAL	COMMENTS
Architectural Components				
Interior nonstructural walls and partitions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cantilever elements (i.e. parapets, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Exterior nonstructural wall elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Veneer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Penthouses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ceilings (i.e. suspended grid or hard-lid)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cabinets (i.e. storage cabinets, equip, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Access floors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Storage racks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Appendages & ornamentations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Signs & billboards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MEP Components				
Fire sprinklers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mechanical equipment (i.e. HVAC, fans, air handler, boilers, furnaces, tanks, chillers, water heaters, evaporators, engines, turbines, pumps, compressors, MFR equipment, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Electrical equipment (i.e. generators, batteries, inverters, transformers, MCC, panel Boards, switch gears, cabinets, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Elevator & escalator components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Communication equipment, computers, instrumentation, and controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Roof-mounted chimneys stacks, cooling & electrical towers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Lighting fixtures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vibration isolated components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Piping & conduit systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ductwork including in-line components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Conveyors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cable trays	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Seismic restraint design of nonstructural mechanical, electrical, plumbing components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SPECIAL INSPECTIONS LIST

Special Inspections for the project must be listed below in accordance with the provisions of IBC 1704 and for miscellaneous areas. Indicate required Special inspections for project by checking the appropriate boxes and provide specific instructions as to the inspection requirements and the expectations of the architect, engineer, and owner:

FABRICATORS (IBC 1704.2.5)

Approved Fabricator	Fabricators Name:		
Unapproved Fabricator	Fabricators Name:		
In-plant inspections			
Steel Construction <input type="checkbox"/>	Welding <input type="checkbox"/>	Details <input type="checkbox"/>	

STEEL (IBC 1705.2)			
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Structural Steel (1705.2.1)	<input type="checkbox"/>	<input type="checkbox"/>	AISC 360
Cold-formed Steel Deck (1705.2.2)	<input type="checkbox"/>	<input type="checkbox"/>	SDI QA/QC
Open-web Steel Joists & Joist Girders (1705.2.3)			
1. Installation of open-web steel joists and joist girders.			

a. End connections – welding or bolted.		<input type="checkbox"/>	SJI specifications, Section 2207.1.
b. Bridging – horizontal or diagonal.			
1. Standard bridging.		<input type="checkbox"/>	SJI specifications Section 2207.1.
2. Bridging that differs from the SJI Specifications listed in Section 2207.1.		<input type="checkbox"/>	
Cold-formed Steel Trusses Spanning 60ft or Greater (1705.2.4)	<input type="checkbox"/>	<input type="checkbox"/>	

CONCRETE CONSTRUCTION (1705.3 & T1705.3)			
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Materials (1705.3.2)			
1. Inspect reinforcement, including prestressing tendons, and verify placement.		<input type="checkbox"/>	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 (IBC 1908.4)
2. Reinforcing bar welding:		<input type="checkbox"/>	AWS D1.4 ACI 318: 26.6.4
a. Verify weldability of reinforcing bars other than ASTM A 706;		<input type="checkbox"/>	
b. Inspect single-pass fillet welds, maximum 5/16"; and		<input type="checkbox"/>	
c. Inspect all other welds.	<input type="checkbox"/>		
3. Inspection of anchors cast in concrete.		<input type="checkbox"/>	ACI 318: 17.8.2
4. Inspection of anchors post-installed in hardened concrete members.			ACI 318: 17.8.2.4
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	<input type="checkbox"/>		
b. Mechanical anchors and adhesive anchors not defined in 4.a		<input type="checkbox"/>	ACI 318: 17.8.2
5. Verifying use of required design mix.		<input type="checkbox"/>	ACI 318: Ch. 19, 26.4.3, 26.4.4 (IBC 1904.1, 1904.2, 1908.2, 1908.3)
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	<input type="checkbox"/>		ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12 (IBC 1908.10)
7. Inspect concrete and shotcrete placement for proper application techniques.	<input type="checkbox"/>		ACI 318: 26.5 (IBC 1908.6, 1908.7, 1908.8)
8. Verify maintenance of specified curing temperature and techniques.		<input type="checkbox"/>	ACI 318: 26.5.3-26.5.5 (IBC 1908.9)
9. Inspection of prestressed concrete:			ACI 318: 26.10
a) Application of prestressing forces. b) Grouting of bonded prestressing tendons in the seismic force-resisting system.	<input type="checkbox"/>		
10. Inspect erection of precast concrete members.		<input type="checkbox"/>	ACI 318: Ch. 26.9

11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		<input type="checkbox"/>	ACI 318: 26.11.2
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		<input type="checkbox"/>	ACI 318: 26.11.1.2(b)

MASONRY CONSTRUCTION (1705.4)

ITEM (IBC REFERENCE)	INSPECTION REQ'D		REFERENCED STANDARD
Masonry Construction			TMS 402/ACI 530 ASCE 5 TMS 602 ACI 530.1/ASCE 6
Empirical masonry – Cat. IV (1705.4.1)	<input type="checkbox"/>		
Vertical masonry foundation elements (1705.4.2)	<input type="checkbox"/>		

WOOD CONSTRUCTION (1705.5)

ITEM (IBC REFERENCE)	INSPECTION REQ'D		REFERENCED STANDARD
High-load diaphragms (1705.5.1)	<input type="checkbox"/>		
Metal-plate-connected wood trusses spanning 60 feet or greater (1705.5.2)	<input type="checkbox"/>		

SOILS CONSTRUCTION (1705.6)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		<input type="checkbox"/>	
Verify excavations are extended to proper depth and have reached proper material.		<input type="checkbox"/>	
Perform classification and testing of compacted fill materials.		<input type="checkbox"/>	
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	<input type="checkbox"/>		
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		<input type="checkbox"/>	

DRIVEN DEEP FOUNDATIONS (1705.7)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Verify element materials, sizes and lengths comply with the requirements.	<input type="checkbox"/>		
Determine capacities of test elements and conduct additional load tests, as required.	<input type="checkbox"/>		
Inspect driving operations and maintain complete and accurate records for each element.	<input type="checkbox"/>		
Verify placement locations and plumbness, confirm types and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip	<input type="checkbox"/>		

and butt elevations and document any damage to foundation element.			
For steel elements, perform additional inspections in accordance with Section 1705.2.		<input type="checkbox"/>	
For concrete elements and concrete-filled elements, perform additional inspections in accordance with Section 1705.3.		<input type="checkbox"/>	
For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.		<input type="checkbox"/>	

CAST-IN-PLACE DEEP FOUNDATIONS (1705.8)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Inspect drilling operations and maintain complete and accurate records for each element.	<input type="checkbox"/>		
Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes.	<input type="checkbox"/>		
For concrete elements, perform additional inspections in accordance with section 1705.3.	<input type="checkbox"/>		

HELICAL PILE FOUNDATIONS (1705.9)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Installation	<input type="checkbox"/>		
Verify records of: Installation equipment used, pile dimensions, tip elevations, final depth, final installation torque and other pertinent installation data as required by the <i>registered design professional in responsible charge</i> .	<input type="checkbox"/>		

SPECIAL INSPECTIONS FOR WIND REQUIREMENTS (1705.11)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Structural wood (1705.11.1)	<input type="checkbox"/>		
Cold-formed steel framing (1705.11.2)		<input type="checkbox"/>	
Wind-resisting components (1705.11.3)		<input type="checkbox"/>	

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (1705.12)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Structural steel (1705.12.1)	<input type="checkbox"/>	<input type="checkbox"/>	AISC 341
Structural wood (1705.12.2) <ul style="list-style-type: none"> a. Continuous special inspection shall be required during field gluing operations of elements of the seismic force-resisting system. b. Periodic special inspection shall be required for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, 	<input type="checkbox"/>	<input type="checkbox"/>	

wood diaphragms, drag struts, braces, shear panels and hold-downs.			
Cold-formed steel framing (1705.12.3)	<input type="checkbox"/>	<input type="checkbox"/>	
Designated seismic systems (1705.12.4)	<input type="checkbox"/>	<input type="checkbox"/>	
Architectural components (1705.12.5)		<input type="checkbox"/>	
Access floors (1705.12.5.1)		<input type="checkbox"/>	
Plumbing, Mechanical & electrical (1705.12.6)		<input type="checkbox"/>	
Storage racks (1705.12.7)		<input type="checkbox"/>	
Seismic isolation systems (1705.12.8)		<input type="checkbox"/>	
Cold-formed steel special bolted moment frames (1705.12.9).		<input type="checkbox"/>	

TESTING FOR SEISMIC RESISTANCE (1705.13)

ITEM (IBC REFERENCE)	TESTING REQ'D		REFERENCED STANDARD
Structural steel (1705.13.1)	<input type="checkbox"/>		
1705.13.2 Nonstructural components (1705.13.2)	<input type="checkbox"/>		
Seismic isolation systems (1705.13.4)	<input type="checkbox"/>		

SPRAYED FIRE-RESISTANT MATERIALS (1705.14)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Physical & visual tests (1705.14.1)		<input type="checkbox"/>	
Structural member surface conditions (1705.14.2)		<input type="checkbox"/>	
Material application (1705.14.3)		<input type="checkbox"/>	
Material thickness (1705.14.4)		<input type="checkbox"/>	
Material density (1705.14.5)		<input type="checkbox"/>	
Bonding strength (1705.14.6)		<input type="checkbox"/>	

MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS (1705.15)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Material & Installation	<input type="checkbox"/>	<input type="checkbox"/>	

EXTERIOR INSULATION & FINISH SYSTEM (EIFS) (1705.16)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Material & Installation		<input type="checkbox"/>	

FIRE-RESISTANT PENETRATIONS & JOINTS (1705.17)

ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Penetration firestops (1705.17.1)		<input type="checkbox"/>	
Fire-resistant joint systems (1705.17.2)		<input type="checkbox"/>	

SMOKE CONTROL (1705.18)			
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Material & Installation		<input type="checkbox"/>	

MISCELLANEOUS AREAS (These areas are recommended by Architect/Engineer and approved by University of Utah Building Official)			
ITEM (IBC REFERENCE)	CONTINUOUS	PERIODIC	REFERENCED STANDARD
Suspended ceiling grid clips	<input type="checkbox"/>	<input type="checkbox"/>	
Suspended ceiling wire spacing (seismic)	<input type="checkbox"/>	<input type="checkbox"/>	
Soils backfill (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Soils for curb and gutter (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Soils for parking lots (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Soils for utility trench backfill	<input type="checkbox"/>	<input type="checkbox"/>	
Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Reinforcement for interior slab on grade (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Concrete testing for interior slab on grade (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Masonry veneer (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Asphalt inspection (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Asphalt testing (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Inspection of seismic resistance (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Steam and water line welding (specify locations and frequency)	<input type="checkbox"/>	<input type="checkbox"/>	
Seismic supports for duct work and sealing of joints for duct work	<input type="checkbox"/>	<input type="checkbox"/>	
Seismic supports for electrical raceways, cable trays and lights	<input type="checkbox"/>	<input type="checkbox"/>	
Seismic supports for plumbing lines including gas, water, steam and condensation	<input type="checkbox"/>	<input type="checkbox"/>	
Seismic bracing for mechanical units both on slab and suspended	<input type="checkbox"/>	<input type="checkbox"/>	

SPECIAL INSPECTORS SHALL:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.2.4 and University of Utah standards;
- Inspection reports are to be submitted to the code consultant, architect, project manager, and the University of Utah Building Official within 48 hrs. of inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the drawings, specifications and applicable codes. IBC 1704.2.4