

COMMERCIAL CONSTRUCTION FORMS



DOCUMENTS NEEDED FOR
COMPLETION
OR
CERTIFICATE OF OCCUPANCY

City staff understands the need for tight scheduling for concrete pours. In the past, the City has required zoning review followed by building inspection *review of footings*. The City's new policy allows for concurrent review by the two departments, subject to the below stipulations.

By initialing and signing below, you acknowledge the following:

- ____(1) A copy of your stamped/signed site plan is located in the permit box on site.
- ____(2) The footing location meets all applicable setbacks as shown on your approved site plan.
- ____(3) The footing must be inspected by both the Building Inspections Department (843)740-2564 and the Planning and Zoning Department (843)740-2585 to be approved.
- ____(4) Approval of your footing inspection by the Building Inspections Department does not constitute approval of the footing location by the Planning and Zoning Department.
- ____(5) You may elect to proceed with pouring the footing prior to receiving approval of the Planning and Zoning Department; however, if you do so, you do so at your own risk. Prior to the vertical inspection, if your footing is not in compliance with the indicated setbacks, you understand that you will be required to demolish your footing, slab, polyolith, and/or new addition if the improvement is not in compliance with the City's Zoning Code of Ordinances.

Contractor Signature/Date

Print Contractor Name/Title/Date

Building Official Signature Approval



Subcontractor List

Project Name:	Project Address:
General/Prime Contractor:	Mailing Address:
Contact Person:	Mailing Address:
Business Phone:	Cell Phone:
Business Address:	Email:
Total Contract Value:	Contract Start Date:

I certify that the following list contains all sub-contractors associated with this project. I will notify the Municipality/County of any changes that occur.

Signed _____ Date _____

***** If the work is being performed by employees of the General/Prime contractor, please indicate EMPLOYEES. Employees are defined as individuals for whom Social Security taxes and income taxes are withheld by the General/Prime contractor and a W-2 is issued to them. If a General Contractor (licensed with the SC State LLR's commercial contracting board) is overseeing this project, we will only need the state license information for the alarm system, plumbing , heating & A/C, electrical, gas, building sprinkler, asphalt paving, land surveying & mapping and engineering & testing given that all other scope of trades fall under the license classification the general contractor.

PROJECT ADDRESS: _____

<u>CONTRACTORS NAME</u>	<u>ADDRESS</u>	<u>BUSINESS LICENSE NUMBER</u>	<u>STATE LICENSE NUMBER</u>	<u>CONTRACT VALUE</u>
LOT CLEARING/GRADING			N/A	
LAYOUT, DIG & POUR FOUNDATION				
MASON- BLOCK				
MASON – VENEER				
PEST CONTROL CONTRACTOR			N/A	
FRAME CARPENTER				
STEEL FRAMING				

<u>CONTRACTOR'S NAME</u>	<u>ADDRESS</u>	<u>BUSINESS LICENSE NUMBER</u>	<u>STATE LICENSE NUMBER</u>	<u>CONTRACT VALUE</u>
ROOFER				
DOORS/LOCKSMITH			N/A	
WINDOWS/GLASS				
MIRROR'S			N/A	
CLOSET/PANTRY SHELVING				
FIRE PLACE				
ALARM SYSTEM				
PLUMBING				
HEATING & AC				
ELECTRICAL				

GAS FITTER				
BUILDING SPRINKLER				
INSULATION				
SIDING (VINYL, BOARD, PLANK, STUCCO, ETC)				
ELEVATOR			N/A	
DRYWALL INSTALLER				
DRYWALL FINISHER				
TRIM CARPENTER				
CABINET MAKER/INSTALLER				

<u>CONTRACTOR'S NAME</u>	<u>ADDRESS</u>	<u>BUSINESS LICENSE NUMBER</u>	<u>STATE LICENSE NUMBER</u>	<u>CONTRACT VALUE</u>
PAINTER				
INTERIOR WALL COVERING				
WOOD FLOOR INSTALLER				
TILE FLOOR INSTALLER				
VINYL FLOOR INSTALLER				
CARPET INSTALLER				
GARAGE DOOR INSTALLER			N/A	
YARD SPRINKLER INSTALLER			N/A	

CONCRETE FINISHER			N/A	
LANDSCAPING			N/A	
ASPHALT/PAVING				
FENCE INSTALLERS			N/A	
CLEANING SERVICES			N/A	
SUPPLIER			N/A	
INSTALLER OF SUPPLIES				
ENGINEERING & TESTING (SOIL TEST, ETC.)				
LAND SURVEYOR/MAPPING				
OTHER				
OTHER				

ATTENTION: All Contractors
RE: Final Floor Elevation and Drawings
PERMIT #:
PROPERTY ADDRESS:

In accordance with the 2012 International Residential Code, Section R403.1.7.3 and the 2012 International Building Code, Section 1808.7.4. Effective July 1, 2013 prior to review of the construction documents, final floor elevation and drainage information must be provided on the site plan. An approved, signed copy will be provided to the general contractor upon issuance of the construction permit. Final floor elevation and drainage document must be filled out and provided to the Building Inspections Department prior to issuance of the Certificate of Occupancy. We are requiring a signature of the engineer, surveyor or contractor below. **Please sign and return to the Building Inspections Office prior to the final building inspection being requested or a re-inspection fee of \$50.00 will be charged. Absolutely no exceptions will be made. (Please note that this can be signed by the surveyor, contractor or approved agency that is responsible for the construction of the new building)**

Sincerely,

Darbis L. Briggman
Chief Building Official

Surveyor Signature/Date

Surveyor Name – Print

Contractor Signature/Date

Contractor Name – Print

Final Floor Elevation

6. Where continuous wood foundations in accordance with Section R404.2 are used, the force transfer shall have a capacity equal to or greater than the connections required by Section R602.11.1 or the *braced wall panel* shall be connected to the wood foundations in accordance with the *braced wall panel*-to-floor fastening requirements of Table R602.3(1).

R403.1.7 Footings on or adjacent to slopes. The placement of buildings and structures on or adjacent to slopes steeper than one unit vertical in three units horizontal (33.3-percent slope) shall conform to Sections R403.1.7.1 through R403.1.7.4.

R403.1.7.1 Building clearances from ascending slopes. In general, buildings below slopes shall be set a sufficient distance from the slope to provide protection from slope drainage, erosion and shallow failures. Except as provided in Section R403.1.7.4 and Figure R403.1.7.1, the following criteria will be assumed to provide this protection. Where the existing slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the toe of the slope shall be assumed to be at the intersection of a horizontal plane drawn from the top of the foundation and a plane drawn tangent to the slope at an angle of 45 degrees (0.79 rad) to the horizontal. Where a retaining wall is constructed at the toe of the slope, the height of the slope shall be measured from the top of the wall to the top of the slope.

R403.1.7.2 Footing setback from descending slope surfaces. Footings on or adjacent to slope surfaces shall be founded in material with an embedment and setback from the slope surface sufficient to provide vertical and lateral support for the footing without detrimental settlement. Except as provided for in Section R403.1.7.4 and Figure R403.1.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the required setback shall be

measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope.

R403.1.7.3 Foundation elevation. On graded sites, the top of any exterior foundation shall extend above the elevation of the street gutter at point of discharge or the inlet of an *approved* drainage device a minimum of 12 inches (305 mm) plus 2 percent. Alternate elevations are permitted subject to the approval of the *building official*, provided it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site.

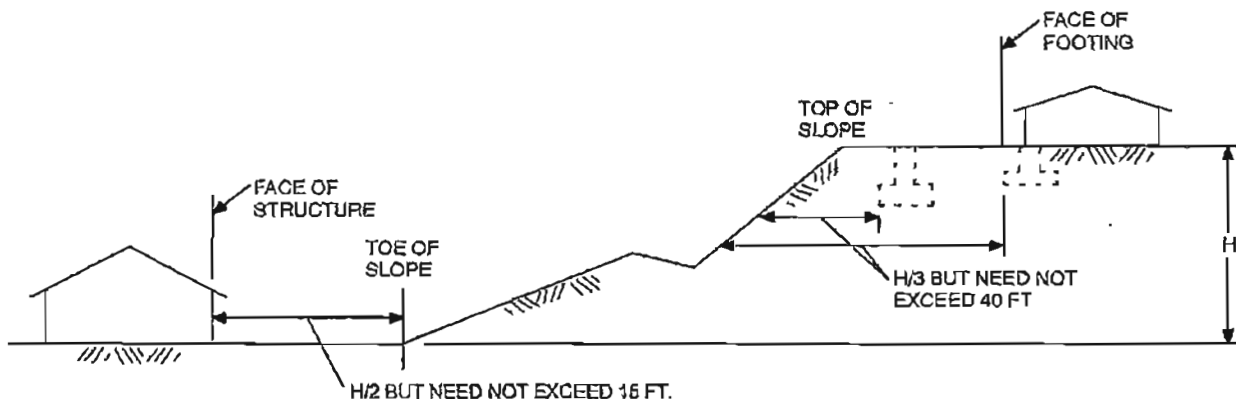
R403.1.7.4 Alternate setback and clearances. Alternate setbacks and clearances are permitted, subject to the approval of the *building official*. The *building official* is permitted to require an investigation and recommendation of a qualified engineer to demonstrate that the intent of this section has been satisfied. Such an investigation shall include consideration of material, height of slope, slope gradient, load intensity and erosion characteristics of slope material.

R403.1.8 Foundations on expansive soils. Foundation and floor slabs for buildings located on expansive soils shall be designed in accordance with Section 1808.6 of the *International Building Code*.

Exception: Slab-on-ground and other foundation systems which have performed adequately in soil conditions similar to those encountered at the building site are permitted subject to the approval of the *building official*.

R403.1.8.1 Expansive soils classifications. Soils meeting all four of the following provisions shall be considered expansive, except that tests to show compliance with Items 1, 2 and 3 shall not be required if the test prescribed in Item 4 is conducted:

1. Plasticity Index (PI) of 15 or greater, determined in accordance with ASTM D 4318.



For SI: 1 foot = 304.8 mm.

FIGURE R403.1.7.1
FOUNDATION CLEARANCE FROM SLOPES

other methods that account for soil-structure interaction, the deformed shape of the soil support, the plate or stiffened plate action of the slab as well as both center lift and edge lift conditions. Such alternative methods shall be rational and the basis for all aspects and parameters of the method shall be available for peer review.

1808.6.3 Removal of expansive soil. Where expansive soil is removed in lieu of designing foundations in accordance with Section 1808.6.1 or 1808.6.2, the soil shall be removed to a depth sufficient to ensure a constant moisture content in the remaining soil. Fill material shall not contain expansive soils and shall comply with Section 1804.5 or 1804.6.

Exception: Expansive soil need not be removed to the depth of constant moisture, provided the confining pressure in the expansive soil created by the fill and supported structure exceeds the swell pressure.

1808.6.4 Stabilization. Where the active zone of expansive soils is stabilized in lieu of designing foundations in accordance with Section 1808.6.1 or 1808.6.2, the soil shall be stabilized by chemical, dewatering, presaturation or equivalent techniques.

1808.7 Foundations on or adjacent to slopes. The placement of buildings and structures on or adjacent to slopes steeper than one unit vertical in three units horizontal (33.3-percent slope) shall comply with Sections 1808.7.1 through 1808.7.5.

1808.7.1 Building clearance from ascending slopes. In general, buildings below slopes shall be set a sufficient distance from the slope to provide protection from slope drainage, erosion and shallow failures. Except as provided in Section 1808.7.5 and Figure 1808.7.1, the following criteria will be assumed to provide this protection. Where the existing slope is steeper than one unit vertical in one unit horizontal (100-percent slope), the toe of the slope shall be assumed to be at the intersection of a horizontal plane drawn from the top of the foundation and a plane drawn tangent to the slope at an angle of 45 degrees (0.79 rad) to the horizontal. Where a retaining wall is constructed at the toe of the slope, the height of the slope shall be measured from the top of the wall to the top of the slope.

1808.7.2 Foundation setback from descending slope surface. Foundations on or adjacent to slope surfaces shall be founded in firm material with an embedment and set back from the slope surface sufficient to provide vertical and lateral support for the foundation without detrimental settlement. Except as provided for in Section 1808.7.5 and Figure 1808.7.1, the following setback is deemed adequate to meet the criteria. Where the slope is steeper than 1 unit vertical in 1 unit horizontal (100-percent slope), the required setback shall be measured from an imaginary plane 45 degrees (0.79 rad) to the horizontal, projected upward from the toe of the slope.

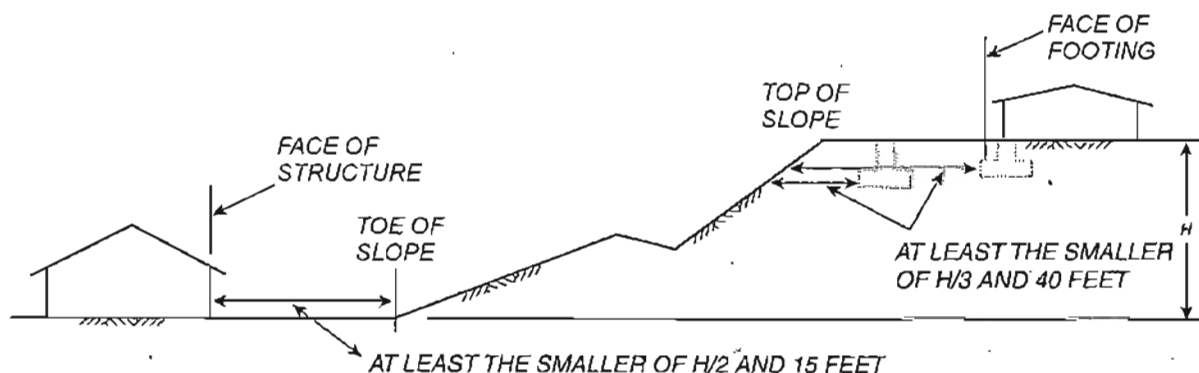
1808.7.3 Pools. The setback between pools regulated by this code and slopes shall be equal to one-half the building footing setback distance required by this section. That portion of the pool wall within a horizontal distance of 7 feet (2134 mm) from the top of the slope shall be capable of supporting the water in the pool without soil support.

1808.7.4 Foundation elevation. On graded sites, the top of any exterior foundation shall extend above the elevation of the street gutter at point of discharge or the inlet of an approved drainage device a minimum of 12 inches (305 mm) plus 2 percent. Alternate elevations are permitted subject to the approval of the *building official*, provided it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site.

1808.7.5 Alternate setback and clearance. Alternate setbacks and clearances are permitted, subject to the approval of the *building official*. The *building official* shall be permitted to require a geotechnical investigation as set forth in Section 1803.5.10.

1808.8 Concrete foundations. The design, materials and construction of concrete foundations shall comply with Sections 1808.8.1 through 1808.8.6 and the provisions of Chapter 19.

Exception: Where concrete footings supporting walls of light-frame construction are designed in accordance with Table 1809.7, a specific design in accordance with Chapter 19 is not required.



For SI: 1 foot = 304.8 mm.

FIGURE 1808.7.1
FOUNDATION CLEARANCES FROM SLOPES

Project Name: _____

Company Name: _____

Permit No.: _____

I, _____, the General Contractor of the above mentioned project,
do hereby attest that a complete final set of drawings to include all revisions will be submitted
electronically to the Building Inspections Department. All permits fees and business license
fees for all contractors of said project will be adjusted to include all change orders to the
original contract. I agree to these terms and understand that the Certificate of Occupancy will
be rescinded if all submittals are not received and all adjustments to permits have been made.

Contractor Signature

Date

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: _____
LOCATION: _____
PERMIT APPLICANT: _____
APPLICANT'S ADDRESS: _____
PROJECT ARCHITECT: _____
PROJECT STRUCTURAL ENGINEER: _____

This statement of special inspections is submitted as a condition for permit issuance in accordance with Section 1704 of the 2012 International Building Code. It includes a Schedule of Special Inspection Services applicable to the above referenced project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. The Special Inspector (s) shall keep records of all inspections and shall furnish interim inspection reports to the building official and to the registered design professional in responsible charge at a frequency agreed upon by the permit applicant and building official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and the registered design professional in responsible charge prior to completion of the phase of work. A Final Report of Special Inspections documenting required special inspections and correction of any discrepancies noted in the inspections shall be submitted at the conclusion of the project.

Frequency of interim report submittals to Registered "Design Professional in Responsible Charge:
__ Monthly __ Bi-Monthly __ Upon Completion __ Per attached schedule

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of Contractor.

Prepared By: _____

Preparer's Seal: _____

To be filled out by Building Department and returned to applicant:
Building Official's Acceptance: _____

Frequency of interim report submittals to Building Official:

Permit No. _____

__ Monthly __ Bi-Monthly __ Upon Completion __ Per attached schedule

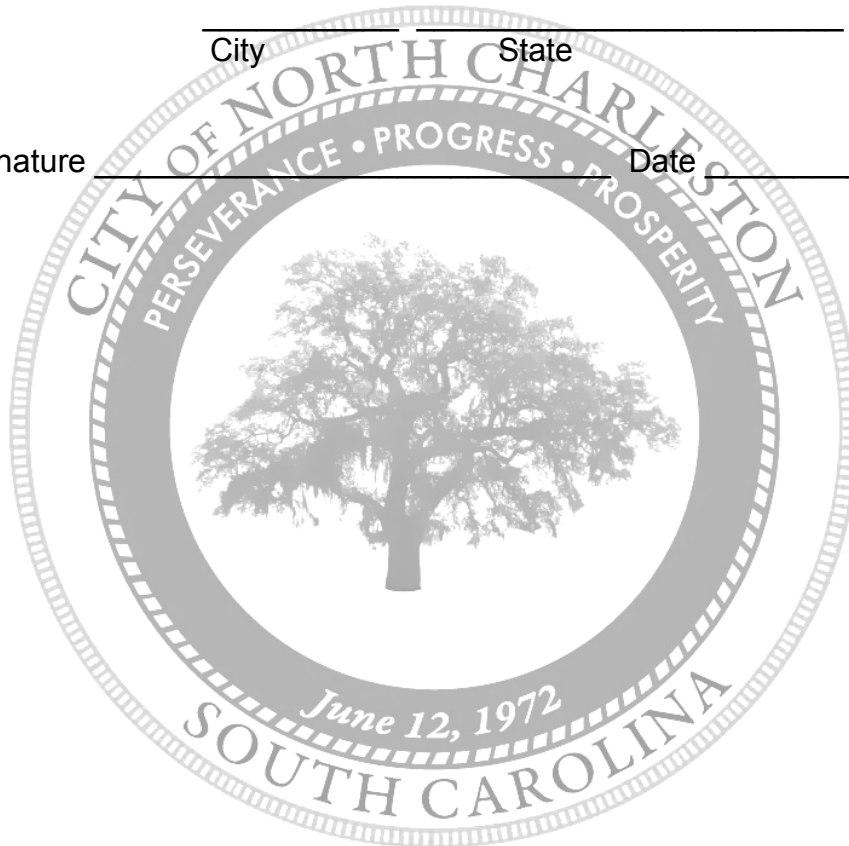
I _____ of _____
Owner/Contractor Full Name Location of Construction
do solemnly swear that my application for permit is not contrary to nor prohibited by any
recorded covenant as required by SC ST SEC 6-29~1145.

Owner's/Contractor's Signature _____

Owner's/Contractor's Address _____

City _____ State _____ Zip _____

Witness Signature _____ Date _____



Please remember to print a copy of this form for your records.

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

Date: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
1704.2.5 Inspection of Fabricators					
Verify fabrication/quality control procedures.	In-plant review				
1705.2 Steel Construction					
High-strength bolts, nuts and washers.	Review material markings and certificates of compliance				
Inspection of high-strength bolting.	Field inspection				
Structural steel.	Review certified test reports				
Weld filler materials.	Review certificate of compliance and field verifications				
Structural steel welding.	Shop and field inspection				
Reinforcing steel welding.	Shop and field inspection				
Inspection of steel frame joint details for compliance with approved construction documents.	Field inspection				
1705.2.1 Structural Steel					
Continuous inspection of structural welding in accordance with AISC Seismic Provisions	Shop and field inspection				
Ultrasonically test for discontinuities behind and adjacent to welds with base metal thicker than 1.5 inches where subject to through-thickness weld shrinkage strains.	Shop and field testing				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
1705.3 Concrete Construction					
Inspection of reinforcing steel installation.	Field inspection				
Inspection of prestressing steel installation.	In-plant or Field inspection				
Prestressed concrete force application.	In-plant or Field inspection				
Inspection of cast-in place bolts.	Field inspection				
Verification of required design mix.	Review submittals				
Fresh Concrete sampling.	Field testing				
Concrete placement.	Field review				
Concrete curing operations.	Field review				
Erection of precast concrete members.	Field review				
Evaluation of concrete strength.	Field testing and review laboratory reports				
Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Review field testing and laboratory reports				
1705.2 Reinforcing and Prestressing Steel					
Review certified mill test reports	Field review				
Verify reinforcing steel weldability	Review testing reports				
1705.4 Masonry Construction					
Verify proportions of site prepared mortar and grout	Review submittals				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
Verify construction of mortar joints.	Field inspection				
Verify location of reinforcement and connectors.	Field inspection				
Verify size and location of structural masonry elements.	Field and submittal review				
Verify type, size and location of anchors including details of anchorage of masonry to structural members, frames or other construction.	Field inspection				
Verify size, grade and type of reinforcement.	Field inspection				
Verify welding of reinforcing bars.	Field inspection				
Verify protection of masonry during hot/cold weather.	Field inspection				
Verify grout space is clean prior to grouting.	Field inspection				
Verify grout placement complies with code and construction document provisions.	Field inspection				
Observe preparation of grout specimens and/or prisms.	Field review				
1705.4 Masonry					
Certificates of compliance used in masonry construction	Review submittals				
Verification of f'm prior to construction	Review submittals and field testing				
Verification of f'm every 5000 SF during construction	Review submittals and field testing				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
Verifications of proportions of materials in mortar and grout as delivered to the site	Field review				
1705.6 Soils					
Verify site preparation complies with approved soils report.	Field inspection				
Verify placement and compaction of fill materials complies with approved solids report	Field inspection				
Verify dry-density of compacted fill complies with approved soils report.	Review field testing				
1705.9 Helical Pile Foundations					
Observe installation of pile foundations	Field inspection				
Observe pile foundation load tests	Review field testing				
Observe installation of pier foundation	Field inspection				
1705.10.1 Structural Wood					
Continuous inspection of field gluing operations of elements of the seismic-force resisting system.	Field inspection				
Periodic inspection of nailing, bolting, anchoring and other fastening of components with seismic-force-resisting system	Shop and field inspection				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
1705.11.3 Cold -formed light Steel Framing					
Periodic inspection during welding operations of elements of seismic-force-resisting system	Shop and field inspection				
Periodic inspection for screw attachment, bolting, anchoring and other fastening of components within the seismic-force- resisting system.	Shop and field inspection				
Observe installation of exterior and interior architectural wall panels.	Field inspection				
Observe anchoring of veneers to the building structure	Field inspection				
1705.13 Sprayed Fire-resistant Materials					
Verify surface condition preparation of structural members	Field inspection				
Verify applicaion of sprayed fire-resistant materials	Field inspection				
Verify average thickness of sprayed fire-resistant materials applied to structural members.	Field inspection				
Verify density of the sprayed fire-resistant material complies with approved fire-resistant design	Field inspection and submittal review				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
Verify cohesive/ adhesive bond strength of the cured sprayed fire-resistant material.	Field inspection and submittal review				
1705.15 Exterior Insulation and Finish Systems (EIFS)					
Inspect EIFS applications	Field inspection				
1704.14 Smoke Control Systems					
1705.17 and 1705.17.1 Test Smoke Control Systems	Field testing				
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative construction materials, unusual design applications, systems or materials with special manufacturer requirements. Attach 8 1/2 x 11 if needed).					
1705.11.7 Storage Rack and Access Floors					
Periodic Inspections during the anchorage of access floors and storage racks 8 feet or greater in height	Field inspection				
1705.11.5 Architectural Components					
Periodic inspection during the erection and fastening of exterior cladding	Field inspection				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

MATERIAL / ACTIVITY	SERVICE	Y/N	APPLICABLE TO THIS PROJECT		COMPLETED
			EXTENT	AGENT*	
	Field inspection				
1705.11.6 Mechanical and Electrical Components					
Periodic inspection during the anchorage of electrical equipment for emergency or standby power systems.	Field inspection				
Periodic inspection during the anchorage of other electrical equipment.	Field inspection				
Periodic inspection during installation of piping systems intended to carry flammable, combustible or highly toxic contents and their associated mechanical units.	Field inspection				
Periodic inspection during the installation of HVAC ductwork that will contain hazardous materials.	Field inspection				
Submit certificate of compliance for designated seismic system components	Submittal review				
1705.11.8 Seismic Isolation System					
Periodic inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system.	shop and field inspection				

SCHEDULE OF SPECIAL INSPECTION SERVICES

Project Address: _____

Date: _____

		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	COMPLETED

INSPECTION AGENTS FIRM	ADDRESS	TELEPHONE NUMBER
1).		
2).		
3).		
4).		
5).		
6).		

Note: The inspection and testing agent(s) shall be engaged by the owner or the owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Inspection Agent(s) may be subject to the approval of the Building Official.

Is the Schedule of Special Inspection Services part of a Quality Assurance Plan as defined in Sections 1705 or 1706 of the Building Code? ☐ Yes or ☐ No

7. Final Report of Special Inspections

Project: _____ Permit Number: _____

Project Location: _____

Owner/Address: _____ City _____ Zip _____

Design Professional In Charge: _____

Address: _____

City: _____ State: _____ Zip: _____ Phone: _____

Fax: _____ E-mail: _____

To the best of my information, knowledge, and belief, the special inspections and/or testing required for this project, and designated for the Agent in the *Schedule of Inspections* and *Testing Agencies* submitted for this permit, have been completed in accordance with the contract documents.

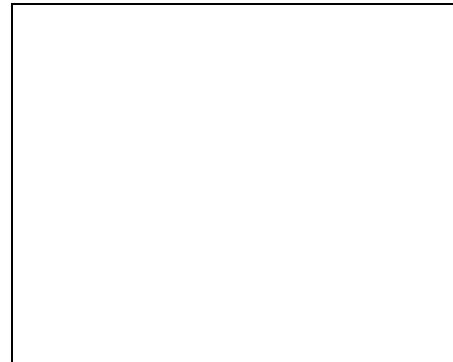
Interim reports submitted prior to this Final Report of Special Inspections form a basis for, and are to be considered an integral part of this final report. Any discrepancies that were noted in all interim reports have been corrected.

Prepared by:

Type or Print Name

Signature

Date



Preparer's Seal and Signature Required

CITY OF NORTH CHARLESTON V-ZONE BREAKAWAY WALL DESIGN CERTIFICATE

PRE-CONSTRUCTION _____ AS BUILT _____

TMS# _____

Name of Property Owner: _____ Permit No. _____

Building Address: _____

City: _____ State: _____ Zip Code: _____

Flood Insurance Rate Map (FIRM) Information

Community Number: _____ Panel Number: _____ Suffix: _____

Date of FIRM Index: _____

Elevation Information

1. Base Flood Elevation (BFE) _____ feet (NGVD)
2. Bottom of Lowest Horizontal Structural Member _____ feet (NGVD)
3. Elevation of Lowest Adjacent Grade _____ feet (NGVD)
4. Datum Used: _____ NGVD 29 _____ NAVD 88 _____ Other _____

BREAKAWAY WALL CERTIFICATION STATEMENT

NOTE: Certificate must be signed and sealed by a registered professional engineer or architect. Breakaway wall construction details must be shown on construction plans that are signed and Sealed by a registered professional engineer or architect.

I certify that I have developed or reviewed the structural design, plans and specifications for construction of breakaway walls. The design and methods of construction to be used for the breakaway walls are in accordance with accepted standards of practice for meeting the following provisions:

- Breakaway walls have a design safe loading resistance of not less than 10 and no more than _____ Pounds per square foot.
- Breakaway walls' collapse shall result from water loads less than that which would occur during the base flood; and
- The elevated portion of the building and supporting foundation system shall not be subject to collapse, displacement, or other structural damage due to the combined effects of wind and water loads acting simultaneously on all building components, structural and non-structural. Wind loading values used shall be those associated with the base flood. Such enclosed space shall be useable solely for parking of vehicles, building access or limited storage of maintenance items.

For "As Built" certifications, I am certifying that the construction has been done in accordance with the design parameters indicated above.

CERTIFICATION

Certifier's Name: _____ Title: _____

Company Name: _____ Registration Number: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____ Telephone No.: _____

Signature: _____ Date: _____

SEAL:

CITY OF NORTH CHARLESTON V-ZONE DESIGN CERTIFICATE

PRE-CONSTRUCTION _____ **AS BUILT** _____

TMS # _____

Name of Property: _____

Owner Permit No. _____

Building Address: _____

City: _____ State: _____ Zip Code: _____

Flood Insurance Rate Map (FIRM) Information

Community Number: _____ Panel Number: _____ Suffix: _____

Date of FIRM Index : _____

Elevation Information

1. Base Flood Elevation (BFE): _____ feet (NGVD)
2. Bottom of Lowest Horizontal Structural Member: _____ feet (NGVD)
3. Elevation of Lowest Adjacent Grade: _____ feet (NGVD)
4. Approximate Depth of Anticipated Scour/Erosion used for Foundation Design is _____ feet
5. Embedment Depth of Pilings/Columns/Footing below Lowest Adjacent Grade is _____ feet
6. Datum Used: NGVD 29 _____ NAVD 88 _____ Other _____

V-Zone Certification Statement

NOTE: Certificate must be signed and sealed by a registered professional engineer or architect.

Construction plans must be in accordance with this certification and must be signed and sealed by a registered professional engineer or architect.

I certify that I have developed or reviewed the structural design, plans and specifications for construction. The design and methods of construction to be used are in accordance with accepted standards of practice for meeting the following provisions:

- The bottom of the lowest horizontal structural member of the lowest floor (excluding piles and columns) is elevated to a minimum at one (1) foot above the BFE; and
- The pile or column foundation and structure attached thereto is anchored to resist flotation, collapse, and lateral movement due to the combined effects of wind and water loads acting simultaneously on all building components. Water loading values used are those associated with the base flood. Wind loading values used are those required by the applicable state or local building code. The potential for scour and erosion at the foundation has been anticipated for conditions associated with the base flood, including wave action.

For "As Built" certification, I am certifying that the construction has been done in accordance with the design parameters indicated above.

Certification

Certifier's Name: _____

Title: _____

Company Name: _____

Registration Number: _____

Street Address: _____

City: _____ State: _____ Zip Code: _____ Telephone No: _____

Signature: _____ Date: _____

SEAL:

In the United States, thefts from construction sites are valued at over a billion dollars each year. The North Charleston Police Department Crime Prevention Unit recommends that you make theft prevention a part of your construction site business plan.

Construction Site Security Tips:

- Have a written theft prevention employee responsibility policy.
- Consider an employee bonus system for sites that have zero thefts.
- Maintain an inventory/photo log of equipment to include serial numbers or owner applied identification numbers.
- Conduct an inventory audit of the job site at random times.
- Post No Trespassing and North Charleston Jurisdiction signs on the job site.
- "Light Up" your site- Lighting is the most cost effective crime prevention tool. Make sure your site is well lit at all times.
- Install wireless security cameras.
- Hire off duty police or security company to monitor your site after hours.

The North Charleston Police Department Crime Prevention Unit is available to visit your site to conduct a security survey. Please contact PFC Maria Leahy at 843 822 1086 or leahym@northcharleston.org.