

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

Discipline Number	Area	Item Number	Discipline Name	Training Item #	Item	Verification Criteria
1	E	1	CIVIL	1	Grades adjacent to building provide adequate drainage.	<p>Verification Criteria</p> <p>Verify by electronic level that final grades of landscaped and walkway areas provide adequate drainage around Building:</p> <ul style="list-style-type: none"> • 2% (minimum) slope at lawn areas. • 2% (minimum) slope, 8% (maximum) slope at sidewalks. • 2 horizontal to 1 vertical (maximum) at landscaped areas. • 3 horizontal to 1 vertical maximum slope in lawn areas.
1	E	2	CIVIL	2	Spacing and location of control joints and expansion joints in mow strips, concrete sidewalks and entries are per standard.	<p>Verification Criteria</p> <p>Control joints and expansion joints are installed at the spacings indicated in specification Section 03 3053:</p> <p>Joint sealants are required in all expansion joints noted in specification section 03 3053 (caulk).</p> <p>In sidewalks:</p> <ul style="list-style-type: none"> • Control joints should be spaced between 4' and 6' on center. • Expansion joints should be spaced between 40' and 100' on center. <p>In mow strips:</p> <ul style="list-style-type: none"> • Control joints in mow strips should be between 3' and 5' on center • Expansion joints should be spaced at 20' on center.
1	E	3	CIVIL	3	Water does not pond on pavement, in gutters, and in lawn or landscape areas.	<p>Verification Criteria</p> <p>Verify by electronic level that ponding does not occur on pavement or in gutters:</p> <ul style="list-style-type: none"> • 2% minimum slope on asphalt paving. • 5% maximum slope on asphalt paving. • 1% minimum slope on concrete paving. • 5% maximum slope on concrete paving. • .5% minimum slope in gutters. • 8% maximum slope in gutters. • 2% minimum slope in lawn areas intended to drain. • 3 horizontal to 1 vertical maximum slope in lawn areas. • 2% minimum slope in landscaped areas intended to drain. • 2 horizontal to 1 vertical maximum slope in landscape areas.

Quality Assessment R&I						
CONSTRUCTION CHECKLIST						
<p>Instructions:</p> <ul style="list-style-type: none"> • The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. • The PA has prime responsibility for quality assurance on the project. • The PA should ensure completion of both QA checklists with the assistance of the GC. • These checklists are to be used throughout the duration of the project. • The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> • The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. • The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. • The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>						
1	D	4	CIVIL	4	Concrete strength used in site work is per standard.	<p>Verification Criteria</p> <p>Review concrete test reports to verify Concrete mix design and tests for concrete strength match specification Section 03 3111.</p> <ul style="list-style-type: none"> • Minimum 3,000 psi (Concrete Mix Type A) unless the geotechnical report requires otherwise. • For exterior concrete in areas of freeze/thaw, Concrete strength in the Schedule of Construction Materials in structural drawings should be 4,500 psi (Concrete Mix Type D).
1	D	5	CIVIL	5	Mix designs used match the specifications of the contract documents and material and workmanship of pavement (asphalt or concrete) are per standard.	<p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Verify that the mix designs (or specifications) for the paving supplied matches that of the specifications of the contract documents. 2. Provide the specification actually used for the project if other than the specification within the contract specifications. 3. Verify that the reports- <ul style="list-style-type: none"> For asphalt: <ol style="list-style-type: none"> a. For Marshall or Hveem Mix Designs, the compaction of the asphalt is 96% minimum. b. For Superpave Mix Designs, the compaction of the asphalt is between 92% and 96%. For Concrete: <ol style="list-style-type: none"> a. Concrete strength is 4500 psi in freeze thaw areas, 4000 psi otherwise. b. Surfaces are smooth (1/4" in 10').
2	E	6	LANDSCAPE	1	Proper finish grading depth at lawn areas.	<p>Verification Criteria</p> <p>Verify by measurement that top of finish grade in all lawn areas is as follows:</p> <ol style="list-style-type: none"> 1. Sod areas: 2 inches. 2. Seed areas: 1 inch.
2	E	7	LANDSCAPE	2	Trees have top 1/3 of burlap/containers removed, are properly staked, and are planted at appropriate depth.	<p>Verification Criteria</p> <p>Observe one tree for proper staking (2 - 2" diameter stakes, 5' above ground, connected with a cinch tie), planting depth (2" above finish grade), and that top 1/3 of burlap or container materials were removed. Staking height of evergreen trees should be 6" less than the height of tree.</p>
2	E	8	LANDSCAPE	3	Proper depth of bark mulch, rock mulch, or decomposed granite are provided in shrub beds.	<p>Verification Criteria</p> <p>Observe one shrub bed that a minimum of 3" in depth of specified bark or rock mulch is provided. Exception: A 2" rock mulch depth may be allowed in locations such as</p>

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

2	E	9	LANDSCAPE	4	Installation of valve box assembly.	<p>Verification Criteria Observe one valve box to check dimensions, location of elements and depth as follows:</p> <ol style="list-style-type: none"> 1. Gravel - Located 4" below lateral line. 2. Action unions - Verify that one is located on each side of valves. 3. Valve locations - Verify that no more than two valves are located in each valve box. 4. Control wire connections - Verify that waterproof wire connectors have been installed properly.
2	E	10	LANDSCAPE	5	Proper installation and location of drip system and/or spray heads in shrub areas.	<p>Verification Criteria Observe two different heads in shrub areas for depth, location and spacing as follows:</p> <ol style="list-style-type: none"> 1. Spray heads - 1" below top of concrete, 1" minimum to 3" maximum from edge of concrete, number and location of heads match irrigation plan. 2. Drip system - drip emitter should be located 2" above top of mulch and is visible; emitters are located next to shrubs and trees as per irrigation plan; number and location of heads match irrigation plan.
2	E	11	LANDSCAPE	6	Proper location and depth of lawn irrigation heads.	<p>Verification Criteria Observe two spray or rotor heads in lawn areas for location, depth and spacing as follows:</p> <ol style="list-style-type: none"> 1. Rotor - 3/4" minimum, 1 1/2" maximum below top of concrete, 1" minimum to 3" maximum from edge of concrete, number and location of heads match irrigation plan. 2. Spray - 3/4" minimum, 1 1/2" maximum below top of concrete, 1" minimum to 3" maximum from edge of concrete, number and location of heads match irrigation plan.
2	I	12	LANDSCAPE	7	Lamination and location of irrigation as-built drawing.	<p>Verification Criteria Verify that 11" x 17" copy of the record drawing irrigation plan has been provided at half size, is laminated for protection, and located in building for easy access by FM group.</p>
2	I	13	LANDSCAPE	8	Controller, rain sensor, wire connections and grounding for lightning protection are properly installed.	<p>Verification Criteria Controller and rain sensor are:</p> <ol style="list-style-type: none"> 1. Mounted properly with 2" steel conduit. 2. Wired properly with 18 gauge wires connected to controller. 3. Properly grounded for lightning protection with ground wire connected inside of controller.
2	D	14	LANDSCAPE	9	Smart controller installation is tested and working properly.	<p>Verification Criteria Verify manufacturers checklist is completely filled out and finalized.</p>
2	D	15	LANDSCAPE	10	Determine that the irrigation main line has been tested.	<p>Verification Criteria Review observation report from architect or landscape architect that irrigation main line was tested per specification Section 32 8423.</p>

Quality Assessment R&I						
CONSTRUCTION CHECKLIST						
<p>Instructions:</p> <ul style="list-style-type: none"> The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. The PA has prime responsibility for quality assurance on the project. The PA should ensure completion of both QA checklists with the assistance of the GC. These checklists are to be used throughout the duration of the project. The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>						
2	E	16	LANDSCAPE	11	Landscape elements are installed per contract documents.	Verification Criteria The installation for the number, size, spacing and location of trees, shrubs, ground cover and boulders matches the landscape planting plan.
2	D	17	LANDSCAPE	12	Meetinghouse Site Management Plan (MSMP) including Topsoil Testing Report was prepared by landscape architect and appropriate FM training completed.	Verification Criteria Review MSMP to verify that: 1. Document follows standard format and is completed. 2. FM and subcontractor have signed the Plant Establishment Period and training verification section of the document. 3. Training is complete.
3	E	18	ARCHITECTURAL	1	Fascia and soffit are correctly fabricated and weather tight.	Verification Criteria Metal surfaces are smooth, and joints are tight with no gaps.
3	E	19	ARCHITECTURAL	2	EIFS is properly installed and sealed at intersections with other building materials.	Verification Criteria Verify EIFS is correctly installed and perimeter edges are sealed where abutting dissimilar materials.
3	E	20	ARCHITECTURAL	3	Exterior handrails and railings are properly installed, the required height, and grouted.	Verification Criteria 1. Exterior handrails and railings are properly grouted, where applicable. Handrails should be continuous, without interruption or other obstructions (such as skateboard deterrents) in compliance with IBC 1012.4. 2. Installed height is between 34 and 38 inches.
3	E	21	ARCHITECTURAL	4	Roofing shingles are installed per plans and specifications and in accordance with manufacturer's recommendations.	Verification Criteria 1. Shingle courses are installed in straight, uniform lines with no exposed fasteners. 2. Each shingle is fastened with nails as required by local conditions, set flush, straight, and secure to roof slope. (Verify by photo or visually.)
3	E	22	ARCHITECTURAL	5	Valley metal installation properly tapers with continuously sealed shingle edges.	Verification Criteria 1. Valley metal is installed with tapered exposure (about one inch in 11 feet down slope divergence). 2. Cut shingle edges are firmly set in mastic to valley metal and drip edge flashing. 3. Metal splash is properly installed at bottom spill point of valley metal.
3	E	23	ARCHITECTURAL	6	Roof flashings, including drip edges and flashings around roof penetrations, are weather tight.	Verification Criteria 1. VTR's are securely installed plumb and properly sealed, with flexible rubber flashing, and lead flashing does not significantly reduce inside clear opening of vent pipe. Minimum VTR extension above roof surface (measured on upslope side) is six inches, except in areas where front/snow closure is possible, minimum extension is 10 inches. 2. Flues and penthouses are securely installed and sealed with metal flashings and water diverter upslope of penthouse.

Quality Assessment R&I						
CONSTRUCTION CHECKLIST						
<p>Instructions:</p> <ul style="list-style-type: none"> • The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. • The PA has prime responsibility for quality assurance on the project. • The PA should ensure completion of both QA checklists with the assistance of the GC. • These checklists are to be used throughout the duration of the project. • The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> • The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. • The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. • The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>						
3	E	24	ARCHITECTURAL	7	Ridge vent is properly installed in accordance with plans and specifications.	Verification Criteria Ridge vent is securely fastened with painted corrosion resistant screws with neoprene washers at eight inch spacing (top and skirting), flush to roof slope, and straight. End caps are installed.
3	E	25	ARCHITECTURAL	8	If gutters are required, they are properly installed with positive drainage.	Verification Criteria Gutters and downspouts are correctly fabricated with smooth metal finish, are properly sealed and sloped.
3	I	26	ARCHITECTURAL	9	Tile and grout are properly installed in all areas as detailed.	Verification Criteria 1. Tile and grout are installed uniformly and grout is absent of voids, bubbles or cracks. 2. Wall tile colors and pattern comply with contract documents. 3. Grout is set and not easily removed. 4. Wall tile height in restrooms is per standard plan documents. 5. Tile is per specification and installed in the proper location.
3	I	27	ARCHITECTURAL	10	Plumbing fixtures are properly mounted and caulked.	Verification Criteria 1. Plumbing fixtures are securely mounted and caulked at floors and walls with a continuous, full bead of caulk. 2. Plumbing fixture elevations are: - Water closet seat: 17 - 19 inches above the floor - Wall hung urinal: 17-24 inches above floor to the rim - Lavatory: 34 inches maximum above the floor to the rim or counter surface, whichever is higher - Accessible drinking fountain: 36 inches maximum to the spout outlet - Standard drinking fountain: 38 - 43 inches to the spout outlet - Accessible urinal: 17 inches maximum above floor to the rim
3	C	28	ARCHITECTURAL	11	Rostrum casework, associated ramp and stairs are properly installed with tight joints.	Verification Criteria 1. Joints are tight and straight. 2. Handrails and base trim are installed as detailed. 3. Ramp and stairs have required 60-inch landings and 12-inch extension of handrails at top and bottom of ramp.
3	I	29	ARCHITECTURAL	12	Vinyl and sisal wall coverings are correctly applied.	Verification Criteria Vinyl and sisal wall coverings are installed as specified in sections 09 7216 and 09 7226. Seams are tight with no frayed edges and there are no bubbles or creases. Transitions between new and existing materials have been installed to minimize abrupt changes in color or materials.

Quality Assessment R&I						
CONSTRUCTION CHECKLIST						
<p>Instructions:</p> <ul style="list-style-type: none"> The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. The PA has prime responsibility for quality assurance on the project. The PA should ensure completion of both QA checklists with the assistance of the GC. These checklists are to be used throughout the duration of the project. The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>						
3	I	30	ARCHITECTURAL	13	Wood floor system and aluminum angle base are correctly installed.	<p>Verification Criteria</p> <ol style="list-style-type: none"> Wood floor is free of transverse cupping, chatter, and sanding swirl marks. Floor finish is uniform without excessive bubbles and embedded dust particles in areas around bottom of exit doors. Aluminum angle base is installed with no exposed sharp edges, and outside corners are radiused.
3	M	31	ARCHITECTURAL	14	Supports are installed for suspended gypsum board ceiling track system. Seismic bracing is correctly installed where applicable.	<p>Verification Criteria</p> <ol style="list-style-type: none"> Supports are taut to the touch. For Seismic Category D, E, and F locations, from mechanical mezzanine level, required seismic support wires are securely fastened at 45 degree angles from the suspended ceiling grid/track to overhead structure and grid support points are spaced at 12 feet maximum each way. Compression post/struts are correctly installed to restrict vertical movement in ceiling grid.
3	I	32	ARCHITECTURAL	15	Hollow metal door frames, including silencers and smoke seals, are installed properly.	<p>Verification Criteria</p> <ol style="list-style-type: none"> Verify insulation placement in hollow metal door frames by tapping on the frame and listening for a low resonating tone. Frame perimeter is caulked with no exposed gaps at wall juncture and verify by touch that frame is not bent outward at corners or otherwise damaged. Installation of silencers and/or smoke seals on door frames. Smoke seals should be compressed when door is fully closed.
3	I	33	ARCHITECTURAL	16	Custom casework is properly installed.	<p>Verification Criteria</p> <ol style="list-style-type: none"> Wood veneer is installed on inside face of cabinet doors. Installation of melamine on the inside surfaces of cabinets. Running book match on outside face of cabinet doors.
3	I	34	ARCHITECTURAL	17	Interior wood trim is properly installed.	<p>Verification Criteria</p> <ol style="list-style-type: none"> Wood trim at ceilings in chapel is painted, not stained. Wood trim in other locations is stained. Nail holes are filled and are not visible from a minimum distance of six feet. Interior trim lengths are not less than 24 inches.
3	I	35	ARCHITECTURAL	18	Wood doors are properly hung in the frame with specified gaps between double doors.	<p>Verification Criteria</p> <ol style="list-style-type: none"> Door perimeter gap is uniform as hung in the frame. Door is not warped. Gap between double doors is 3/16 inches maximum. Consistent wood grain face veneers per specifications.
3	M	36	ARCHITECTURAL	19	Ceiling sound insulation is properly installed.	<p>Verification Criteria</p> <p>Verify sound blanket insulation is Correct thickness, and is properly and uniformly placed to fit snugly.</p>

Quality Assessment R&I					
CONSTRUCTION CHECKLIST					
<p>Instructions:</p> <ul style="list-style-type: none"> • The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. • The PA has prime responsibility for quality assurance on the project. • The PA should ensure completion of both QA checklists with the assistance of the GC. • These checklists are to be used throughout the duration of the project. • The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> • The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. • The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. • The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>					
4	D	37	STRUCTURAL	1	<p>The engineered fill is compacted as per contract documents.</p> <p>Verification Criteria Verify by review of the compaction test reports that engineered fill under the paving and building pad areas has been properly compacted.</p> <ul style="list-style-type: none"> • Engineered fill under footings is normally compacted to 95%. Verify this with the geotechnical report. • Engineered fill under slabs on grade is normally compacted to 90%. Verify this with the geotechnical report.
4	D	38	STRUCTURAL	2	<p>Footings and foundation walls are reinforced as per contract documents.</p> <p>Verification Criteria Verify by review of the structural engineer's site observation report(s) and at least two photos that the footings and foundation walls are reinforced.</p> <ul style="list-style-type: none"> • Footings require horizontal reinforcing. • Walls require vertical and horizontal reinforcing. • Dowels are required from footings into walls.
4	D	39	STRUCTURAL	3	<p>Prefabricated trusses are as per contract documents.</p> <p>Verification Criteria Verify by review of structural engineer's site observation report(s) and at least two photos that the prefabricated wood trusses are acceptable.</p> <ul style="list-style-type: none"> • Trusses show no signs of breakage or damage • Trusses are not in contact with the ground • Trusses elements (top chord, bottom chord, webs) type, size, and placement are correct • Truss plates type, size, and placement are correct
4	D	40	STRUCTURAL	4	<p>Structural wall connections to foundations are as per the contract documents.</p> <p>Verification Criteria Verify by review of the structural engineer's site observation report(s) and at least two photos that:</p> <ul style="list-style-type: none"> • The walls are attached to the foundation walls with specified anchor bolts. At least one photo should show anchor bolts. • Washer plates are installed in Seismic Design Categories D, E and F. At least one photo should show washer plates. • The jambs are attached to the foundation walls with specified holdown anchors. At least one photo should show holdown anchors.
4	D	41	STRUCTURAL	5	<p>Structural wall sheathing and edge blocking are installed as per the contract documents.</p> <p>Verification Criteria Verify by review of structural engineer's site observation report(s) and at least two photos that:</p> <ul style="list-style-type: none"> • The walls are attached to the structure with the specified nails (or staples). At least one photo should show a nail pattern. • The edge blocking is installed as specified. At least one photo should show edge blocking.

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

4	D	42	STRUCTURAL	6	Gable end outlookers and blocking between outlookers are installed as per the contract documents.	<p>Verification Criteria</p> <p>Verify by review of the structural engineer's site observation report(s) and at least two photos that:</p> <ul style="list-style-type: none"> • Outlookers are attached to the walls with framing anchors or toe nails as specified. At least one photo should show framing anchors or toe nails. • Blocking between outlookers is installed with framing anchors or toe nails as specified. At least one photo should show blocking and framing anchors or toe nails.
4	D	43	STRUCTURAL	7	Wood trusses and blocking between wood trusses are installed as per the contract documents.	<p>Verification Criteria</p> <p>Verify by review of the structural engineer's site observation report(s) and at least two photos that:</p> <ul style="list-style-type: none"> • Wood trusses are attached to the walls with the specified framing anchors or toe nails. At least one photo should show framing anchors or toe nails. • Blocking between wood trusses is installed as specified. At least one photo should show framing anchors or toe nails.
4	D	44	STRUCTURAL	8	Beam/girder to wall/column connections are installed per the contract documents.	<p>Verification Criteria</p> <p>Verify by review of the structural engineer's site observation report(s) and at least two photos that:</p> <ul style="list-style-type: none"> • Beams are attached to columns with steel buckets and thru bolts. At least one photo should show a complete beam to column connection. • Beams are attached to other beams using framing anchors. At least one photo should show a complete beam to beam connection. • Trusses are attached to walls with framing anchors. At least one photo should show a complete truss to wall connection.
4	D	45	STRUCTURAL	9	Structural roof sheathing has been properly installed as per contract documents.	<p>Verification Criteria</p> <p>Verify by review of structural engineer's site observation report(s) and at least two photos noting that roof sheathing has been attached per the contract documents.</p> <ul style="list-style-type: none"> • Nail spacing is typically 6" on center at edges; 12" on center in-field. • Blocking is installed above all structural walls.
4	D	46	STRUCTURAL	10	Attachment of the steeple platform to the structure and the attachment of the steeple to the platform are correct and complete.	<p>Verification Criteria</p> <p>Verify by review of structural engineer's site observation report(s) and at least two photos noting that connections of the steeple and platform are complete.</p> <p>The platform is attached to the structure with steel plates, angles and bolts.</p>

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

4	D	47	STRUCTURAL	11	Masonry bearing and shear walls have been reinforced and installed per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Foundations have been reinforced and are doweled to walls above with specified reinforcing. 2. Walls are reinforced and grouted per requirements of contract documents. 3. Walls are anchored to diaphragms per requirements of contract documents. 4. Drag struts and/or chords are attached to the walls per the requirements of contract documents. <p>Review test reports for the masonry , grout and mortar that strength requirements in contract documents are met or exceeded.</p> <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
4	D	48	STRUCTURAL	12	Concrete bearing and shear walls have been reinforced and installed per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Foundations have been reinforced and are doweled to walls above with specified reinforcing. 2. Walls are reinforced per requirements of contract documents. 3. Walls are anchored to diaphragms per requirements of contract documents. 4. Drag struts and/or chords are attached to the walls per the requirements of contract documents. <p>Review test reports for Concrete that strength requirements in contract documents are met or exceeded.</p> <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>

Quality Assessment R&I					
CONSTRUCTION CHECKLIST					
<p>Instructions:</p> <ul style="list-style-type: none"> • The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. • The PA has prime responsibility for quality assurance on the project. • The PA should ensure completion of both QA checklists with the assistance of the GC. • These checklists are to be used throughout the duration of the project. • The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> • The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. • The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. • The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>					
4	D	49	STRUCTURAL	13	<p>Concrete and shotcrete / gunite bearing and shear walls have been reinforced and installed per contract documents.</p> <p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Foundations, if required by contract documents, have been reinforced and are doweled to walls above with specified reinforcing. 2. Walls are reinforced and anchored to existing masonry / concrete walls per requirements of contract documents. 3. Walls are of the specified thickness. 4. Walls are anchored to diaphragms per requirements of contract documents. 5. Drag struts and / or chords are attached to walls per requirements of contract documents. <p>Review test reports for concrete that strength requirements in contract documents are met or exceeded.</p> <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
4	D	50	STRUCTURAL	14	<p>Cells of existing masonry walls have been reinforced and grouted per contract documents.</p> <p>Verification Criteria Review of structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Reinforcing of Correct size and spacing has been installed and cells grouted. 2. Walls are anchored to diaphragms. 3. Drag struts and / or chords are attached to walls. <p>Review test reports for the grout that strength requirements in contract documents are met or exceeded.</p> <p>Review of special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
4	D	51	STRUCTURAL	15	<p>Vertical steel strongback columns are installed per contract documents.</p> <p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Strongback columns are anchored to foundations per requirements of contract drawings. 2. Strongbacks columns are anchored to existing walls per requirements of contract drawings. <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

4	D	52	STRUCTURAL	16	Floor diaphragm to wall shear and out-of-plane anchors are installed as per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Anchor type, size, location, and spacing are per contract documents. 2. Connections are installed per contract documents. <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
4	D	53	STRUCTURAL	17	Roof diaphragm to wall shear and out-of-plane anchors are installed as per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Anchor type, size, location, and spacing are per contract documents. 2. Connections are installed per contract documents. <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
4	D	54	STRUCTURAL	18	Sub-diaphragm cross ties, beam continuity cross ties, and collectors (drag struts) are installed as per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Cross tie type, size, location, and spacing are per contract documents. 2. Connections are installed per contract documents. <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
4	D	55	STRUCTURAL	19	New and/or overlay floor diaphragm is installed as per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Diaphragm type, thickness, and location are per contract documents. 2. Nailing is installed per contract documents.
4	D	56	STRUCTURAL	20	Interior partition bracing is installed as per contract documents.	<p>Verification Criteria Review structural engineer's site observation report(s) and at least two photos to verify that:</p> <ol style="list-style-type: none"> 1. Bracing type, size, location, and spacing are per contract documents. 2. Connections are installed per contract documents. <p>Review special inspection reports that special inspections, as required by contract documents, have been performed and deficiencies corrected.</p>
6	D	57	FIRE PROTECTION	1	Fire sprinkler heads are installed flush with ceiling.	<p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Verify that concealed fire sprinkler heads are installed flush with ceiling. 2. Unscrew a concealed cover plate and verify deflector drops below ceiling.

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

6	M	58	FIRE PROTECTION	2	Building insulation envelope maintains temperatures above freezing in wet pipe areas.	Verification Criteria 1. Verify that gypsum board is installed and holds insulation in place. 2. Verify that gypsum board joints are sealed. 3. Verify that all penetrations are sealed.
6	M	59	FIRE PROTECTION	3	Anti-freeze has been added to anti-freeze system by taking a sample at Bottom of the anti-freeze loop. System should not be leaking.	Verification Criteria Open test valve on glycol riser enough to check a small sample for glycol. Solution will be slick (oily) to the touch and colored if glycol has been added. Solution should not be leaking from test valve.
6	I	60	FIRE PROTECTION	4	Pressure gauge differential at dry pipe riser.	Verification Criteria Verify by reading pressure of the water gauge and air gauge. Pressures should be significantly different. Water pressure ranges will be 60 to 100 psig. Air pressure ranges are 30 to 50 psig. If pressure readings are the same (within 1 PSIG), the dry system is full of water.
6	D	61	FIRE PROTECTION	5	Fire protection system passed the above ground contractor's test.	Verification Criteria Verify by reviewing Completed contractor's test form in the FM O&M manual.
5	I	62	MECHANICAL	1	Thermostats are installed properly.	Verification Criteria 1. Verify that installation CD has been given to FM. 2. Verify set-up of one thermostat by pushing thermostat center button to display set point temperature and push button again to display discharge air temperature.
5	I	63	MECHANICAL	2	Remote sensor installation and operation.	Verification Criteria 1. With system in unoccupied mode, push over-ride occupancy button. LED should light up and furnace turn on. 2. With RED and BLUE arrow keys, move LED associated with them to the right and to the left. If LED moves, the sensor is functioning.
5	M	64	MECHANICAL	3	RP panels are supplied by approved panel manufacturers.	Verification Criteria Remove cover from panel. Verify that panel builder's sticker is located inside panel. Panel builders are listed in specification Section 23 0933.
5	I	65	MECHANICAL	4	Heating is operating.	Verification Criteria On a thermostat perform the following functions: 1. Press Temporary Occupied and wait for furnace to come on. 2. Press Occupied Cool and press the up arrow (raise) to raise cooling set point to 76° F. 3. Press Occupied Heat and press the up arrow (raise) to raise heat set point to bring furnace burner on. 4. Press Center button twice to reveal discharge air temperature. Verify temperature goes up. 5. Press Occupied Heat and press the down arrow (lower) to lower heat set point to original setting. 6. Press Occupied Cool and press the down arrow (lower) to lower cooling set point back to original setting. 7. Press Run Schedule.

Quality Assessment R&I					
CONSTRUCTION CHECKLIST					
<p>Instructions:</p> <ul style="list-style-type: none"> • The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. • The PA has prime responsibility for quality assurance on the project. • The PA should ensure completion of both QA checklists with the assistance of the GC. • These checklists are to be used throughout the duration of the project. • The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> • The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. • The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. • The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>					
5	I	66	MECHANICAL	5	<p>Cooling is operating.</p> <p>Verification Criteria On a thermostat perform the following functions:</p> <ol style="list-style-type: none"> 1. Press Temporary Occupied and wait for furnace to come on. 2. Press Occupied Heat and push lower button to lower heating set point to 65 F. 3. Press Occupied Cool and push the down arrow (lower) to lower cooling set point to bring condensing unit on. 4. Press Center button twice to reveal discharge air temperature. Verify temperature goes down. 5. Press Occupied Cool and push the up arrow (raise) to raise cooling set point back to original setting. 6. Press Occupied Heat and push the up arrow (raise) to raise heating set point back to original setting. 7. Press Run Schedule.
5	M	67	MECHANICAL	6	<p>Outside air damper is operating.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Verify damper position by opening access door between manual and motorized outside air dampers. 2. Verify that motorized outside air damper is open in occupied mode and closed in unoccupied mode. 3. Verify that the end of the damper shaft is correctly marked with damper blade orientation. 4. Verify that actuator jaws are clamped securely to shaft. 5. Verify that damper blade is secured to shaft.
5	M	68	MECHANICAL	7	<p>Furnace filter that is installed is correct type.</p> <p>Verification Criteria Open filter door and remove filter. Verify filter is one inch thick fiberglass type. Pleated media filters should not be used. Pleated media filters use more energy and may cause cooling coil to freeze.</p>
5	M	69	MECHANICAL	8	<p>Water heater is installed properly and is operational.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Verify discharge temperature is set at 110° F for an instantaneous type water heater or 140° F for a tank type water heater. 2. Verify hot and cold water pipe is insulated with fiberglass insulation.
5	E	70	MECHANICAL	9	<p>Seismic gas valve is installed properly, when applicable.</p> <p>Verification Criteria Verify seismic gas valve is installed horizontally in gas line, is level, and is attached to the main building wall.</p>
7	I	71	ELECTRICAL	1	<p>If main electrical system was replaced or modified, the grounding is as shown on electrical drawings.</p> <p>Verification Criteria Verify main grounding conductor is installed at and bonded to building main water line.</p>
7	I	72	ELECTRICAL	2	<p>If emergency lighting was added or replaced, it is operational.</p> <p>Verification Criteria Turn off circuit breaker of circuit feeding lighting in area and observe operation of emergency lighting.</p>

Quality Assessment R&I					
CONSTRUCTION CHECKLIST					
<p>Instructions:</p> <ul style="list-style-type: none"> • The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step. • The PA has prime responsibility for quality assurance on the project. • The PA should ensure completion of both QA checklists with the assistance of the GC. • These checklists are to be used throughout the duration of the project. • The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project. <p>QA Checklist requirements and responsibilities:</p> <ul style="list-style-type: none"> • The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly. • The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance. • The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project. <p>Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.</p>					
7	M	73	ELECTRICAL	3	<p>If electrical panels were added or replaced, the new circuit schedules are accurate.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Verify that each circuit breaker is labeled with a number. 2. Verify that printed circuit schedules are included in panels. 3. Turn off one circuit breaker of lighting to verify accuracy.
7	C	74	ELECTRICAL	4	<p>If new chapel pendant light fixtures were installed, they are as shown in contract documents.</p> <p>Verification Criteria</p> <p>Verify pendant lighting fixtures in chapel match Cut sheet in building O&M binder and Catalog number on the fixture schedule matches Catalog number on Cut sheet. Verify fixture location and mounting heights per standard.</p>
8	C	75	SOUND	1	<p>Sound system is working properly in chapel.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Turn sound system on. 2. Talk into the pulpit microphone and check that system is loud enough, there is no feedback, it is clear and there is no distortion. Check sound consistency throughout Chapel (no dead spots).
8	I	76	SOUND	2	<p>Cultural center and foyers are receiving chapel sound.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Turn chapel sound system on. 2. With someone talking into chapel microphone, open folding partitions between chapel and cultural center and listen for chapel sound in cultural center. Volume should be adequate and at about the same or slightly higher volume level than that heard in Chapel. 3. Listen in foyer by adjusting foyer audio control mounted on foyer wall.
8	C	77	SOUND	3	<p>Assistive listening system is working properly.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. FM should provide an Assistive Listening System (ALS) receiver and ear piece found in the material center. 2. With chapel sound system on, have someone talk into pulpit microphone. 3. Listen through ALS receiver at rear of cultural center or chapel. Sound should be clear and undistorted.
8	C	78	SOUND	4	<p>Audio controls are installed properly.</p> <p>Verification Criteria</p> <ol style="list-style-type: none"> 1. Verify sound system controls at side of pulpit are installed as per detail shown on plan furnishings sheet. Color of control plates should match and be squarely mounted. 2. Verify bishop's sound control pedestal is mounted at side of bishopric's seats as detailed in Enlarged Rostrum section of architectural drawings. It should be easy to reach and control by counselor.
8	E	79	SOUND	5	<p>Satellite dish is not blocked.</p> <p>Verification Criteria</p> <p>Verify that landscape (current or future growth), satellite enclosure, and other structures do not partially or fully block the satellite dish.</p>

Quality Assessment R&I

CONSTRUCTION CHECKLIST

Instructions:

- The PM will provide a copy of the Quality Assessment (QA) Development and Construction Checklists to the Project Architect (PA) and General Contractor (GC) during the identified project process step.
- The PA has prime responsibility for quality assurance on the project.
- The PA should ensure completion of both QA checklists with the assistance of the GC.
- These checklists are to be used throughout the duration of the project.
- The PM ensures that the QA checklists are applied during all new construction projects and that all required verification information is gathered and filed upon completion of the project.

QA Checklist requirements and responsibilities:

- The PA reviews each of the QA checklist items with the assistance of the GC and uses the indicated Verification Criteria to verify that each item has been completed correctly.
- The PA & GC provides the requested evidence (photographs, field reports, test results, record drawings, contract documentation, etc.) verifying compliance.
- The PA provides both completed QA checklists and documented evidence to the PM at Completion of the project.

Checklists and documentation serve as a basis for the project Quality Assessment (QA) review. All documentation should be brought to the QA review. This information is critical for an effective QA assessment and any missing or incomplete information may negatively impact the QA score.

8	C	80	SOUND	6	Satellite audio system is working.	Verification Criteria 1. Turn chapel sound system on. 2. Turn on satellite audio and adjust volume control. Satellite control is located near audio equipment rack. 3. Verify satellite audio in chapel has adequate sound volume, is clear and not distorted.
8	C	81	SOUND	7	Listen in chapel for higher than normal air handling noise.	Verification Criteria With heating or air conditioning on, listen for distracting noise or vibration produced by mechanical equipment which is usually caused by fan speed being set higher than needed.
8	I	82	SOUND	8	Office door seals are properly installed (includes stake suite).	Verification Criteria 1. Verify door seals and threshold are installed correctly so no light can be seen coming from the office when door is closed. 2. Sound seals should be installed so they are in compression when door is in a closed position.
8	I	83	SOUND	9	Bishop's offices masking system is working.	Verification Criteria 1. Verify masking speaker is installed outside Bishop's offices. 2. Sound produced by masking speakers should not be noticeable 20 feet down Corridor. 3. If door seals and threshold are properly installed, verify that masking sound isn't too soft. Have two people converse in the office with the door closed and determine if anyone can hear and understand them in the hallway.
9	O	84	Spare			
9	O	85	Spare			
9	O	86	Spare			
9	O	87	Spare			