

THE FOLLOWING IS A SUMMARY OF THE INSPECTIONS AND TESTING REQUIRED FOR THIS PROJECT. ADDITIONAL INFORMATION CAN BE FOUND IN SPECIFICATION SECTION (01410) 014533. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS ARE AS FOLLOWS:

- | INSPECTION AGENTS | FIRM | ADDRESS/PHONE |
|--|------|---------------|
| 1. SPECIAL INSPECTOR
P.E. | | |
| 2. GEOTECHNICAL ENGINEER/
INSPECTOR | | |
| 3. TESTING/INSPECTING AGENCY | | |
| 4. TESTING/INSPECTING AGENCY | | |

THE INSPECTION AND TESTING AGENT SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S REPRESENTATIVE, NOT BY THE CONTRACTOR OR SUBCONTRACTOR PERFORMING THE WORK. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE CODE ENFORCEMENT OFFICIAL PRIOR TO COMMENCING WORK.

KEY OF MINIMUM QUALIFICATIONS OF INSPECTION AGENTS (MQIA)	
PE	NEW YORK STATE REGISTERED PROFESSIONAL ENGINEER
RDP	NEW YORK STATE REGISTERED DESIGN PROFESSIONAL ENGINEER
ET	ENGINEER IN TRAINING – INTERN ENGINEER
ACI-CO	AMERICAN CONCRETE INSTITUTE CERTIFIED CONCRETE CONSTRUCTION INSPECTOR
ACI-CIT	AMERICAN CONCRETE INSTITUTE CERTIFIED FIELD TESTING TECHNICIAN – GRADE 1
ICC-RCSI	ICC REINFORCED CONCRETE SPECIAL INSPECTOR
ICC-RCC	ICC REINFORCED CONCRETE CERTIFICATION
ICC-SMC	ICC STRUCTURAL MASONRY CERTIFICATION
ICC-SSWC	ICC STRUCTURAL STEEL AND WELDING CERTIFICATION
AWS-CWI	AMERICAN WELDING SOCIETY CERTIFIED WELDING INSPECTOR
ICC-AFAC	ICC SPRAY-APPLIED FIREPROOFING CERTIFICATION
ASNT	AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING – LEVEL II OR III
ICC-PCC	ICC PRESTRESSED CONCRETE CERTIFICATION

VERIFICATION/INSPECTION	AGENT NO.	MQTA	CONT.	PERIODIC	REFERENCED STANDARD
1. VERIFY SITE PREPARATION IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL EVALUATION: A. IDENTIFY SOILS REQUIRING UNDERCUTTING AND REPLACING WHILE OBSERVING PROOF ROLLING AND WHEN SUBGRADE IS EXPOSED. B. VERIFY FOOTING AND TUNNEL BEARING STRATA. C. REVIEW AND ACCEPT FILL MATERIALS D. OBSERVE AND ACCEPT BACKFILLING AND COMPACTION PROCEDURES E. VERIFY USE OF FILL MATERIAL AND LIFT THICKNESS IN FIELD.	2	A, 2	X	—	
	2	A, 2	—	X	
	2	A, 2	—	X	
	2	A, 2	X	—	
	2 OR 3	A, 1, A, 2	—	—	
2. COMPACTION AND MOISTURE CONTENT TESTING: A. TWO TESTS OF SUBGRADE FOR EACH 20-FOOT LENGTH OF TUNNEL, ONE ON EACH SIDE. B. ONE TEST OF EACH LIFT OF FILL MATERIALS FOR EACH 2000 SF OF TUNNEL AREA, BUT NOT LESS THAN 4 TESTS.	3	A, 1	—	X	ASTM D 1557 ASTM D 6938

VERIFICATION/INSPECTION	AGENT NO.	MQTA	CONT.	PERIODIC	REFERENCE STANDARD
1. INSPECT REINFORCING STEEL AND PLACEMENT. A. FOOTINGS, FOUNDATIONS WALLS. B. CONCRETE BEAMS AND STRUCTURAL SLABS.	1	B.1, B.3 0.1	— —	X 50% X 100%	
2. INSPECT EMBEDDED BOLTS AND ANCHOR RODS PRIOR TO PLACEMENT OF CONCRETE.	1	B.1, B.3 0.1			
3. VERIFY USE OF REQUIRED DESIGN MIX.	3	B.2	X	—	
4. SAMPLE AND TEST FRESH CONCRETE: A. TAKE SIX STANDARD CYLINDERS FOR EACH 50 CUBIC YARDS OF CONCRETE OR EACH 5000 SF OF SLAB AREA FOR EACH CLASS OF CONCRETE. B. RECORD TIME CONCRETE IS BATCHED, TIME CONCRETE IS SAMPLED, AND TIME THE TRUCK IS EMPTY. C. PERFORM ONE SLUMP TEST FOR EACH TRUCK; TWO IF THE CONCRETE IS PUMPED. D. MEASURE AIR CONTENT. E. RECORD CONCRETE AND AMBIENT AIR TEMPERATURE. F. RECORD UNIT WEIGHT OF CONCRETE. G. PERFORM COMPRESSIVE STRENGTH TESTS	3 3	B.2 B.4	X X	— —	ASTM C 172 ASTM C 31 ASTM C 94 ASTM C 231 ASTM C 138 ASTM C 567 ASTM C 39
5. INSPECT CONCRETE TECHNIQUES FOR PROPER APPLICATION.	3	B.1, B.2	X	—	ACI 318 5.9, 5.10
6. INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	3	B.1, B.2	—	X	ACI 318 5.11-5.13
7. VERIFY IN-SITU CONCRETE STRENGTH OF FIELD CURED CYLINDERS A. PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	3	B.2, C.4	X	—	ACI 318 6.2
8. INSPECT PRECAST/PRESTRESSED CONCRETE: A. SHOP INSPECT PRESTRESSING TENDONS, REINFORCING AND EMBEDMENTS INCLUDING PLACEMENT. B. APPLICATION OF PRESTRESSING FORCES.	1 1 OR 3	G.1 C.1, C.3 C.1, C.3	— X	X —	 ACI 318 18.20

VERIFICATION/INSPECTION	AGENT NO.	MQIA	CONT.	PERIODIC	REFERENCE STANDARD
1. VERIFY FABRICATOR(S) MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES.	1 OR 3	G.2, G.3, G.4	—	X	
2. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE.	3 1 OR 3	F.1 F.1, F.2	— —	X 100% X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC ASD, A34, AISC LRFD, A3.3
C. TEST 3 HIGH-STRENGTH BOLT ASSEMBLIES FROM EACH LOT.	3	F.1	—	X	
3. INSPECTION OF HIGH-STRENGTH BOLTING: A. BEARING-TYPE CONNECTIONS.	3	F.1, O.1	—	X 100%	AISC LRFD M2.5
4. MATERIAL VERIFICATION OF STRUCTURAL STEEL: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS REQUIRED.	1 OR 3 1	 F.2	 —	 X 100%	ASTM A 6 OR ASTM A 568 ASTM A 653
5. PERFORM PULL-OUT TESTS ON DRILLED-IN, ADHESIVE, EXPANSION, AND SLEEVE ANCHORS: A. TEST 10% OF EACH ANCHOR TYPE (MINIMUM OF 2) BY APPLYING A LOAD EQUAL TO 125% OF ALLOWABLE PULL-OUT STRENGTH. B. TEST 100% OF ANCHORS BY PULLING WITH A CLAW HAMMER USING THE WEIGHT OF ONE MAN.	3		—	X 100%	
6. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	3 1 OR 3	E.1, E.2 E.1, E.2 E.3	X X	— —	AWC, ASD, A3.6, AISC, LRFD, A3.5
7. INSPECTION OF WELDING OF STRUCTURAL STEEL: A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. 100% VISUAL INSPECTION AND 100% ULTRASONIC TESTING. B. FILLET WELDS. 100% VISUAL INSPECTION AND 10% MAGNETIC PARTICLE TESTING. 1. SINGLE PASS (5/16 OR LESS).	3	E.1, E.2, O.1	X FOR UT	X X	AWC D1.1 ASTM E 587
				X	ASTM E 709
				X	AWC D1.1
8. INSPECT CONDITION OF ERECTED MATERIALS.	1 OR 3	F.1, F.2	—	X 100%	

1. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS AS NECESSARY IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE BONSYS.
2. THE REGISTERED DESIGN PROFESSIONAL HAS PREPARED A STATEMENT OF SPECIAL INSPECTIONS, WHICH INCLUDES SPECIFICATION 014533, AND THE SCHEDULE OF SPECIAL INSPECTIONS. THESE DOCUMENTS WILL BE PROVIDED WITH THE CONTRACT DOCUMENTS AND THE APPLICATION FOR BUILDING PERMIT TO THE CODE ENFORCEMENT OFFICIAL. A COPY OF THE SCHEDULE OF SPECIAL INSPECTIONS IS INCLUDED ON DRAWING SO.2.
3. SPECIAL INSPECTIONS AND TESTING SHALL BE CONTINUOUS OR PERIODIC DURING PERFORMANCE OF THE WORK, AS SPECIFIED.
4. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE REGISTERED DESIGN PROFESSIONAL, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUB-CONTRACTORS TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.
5. THE SPECIAL INSPECTOR SHALL SUBMIT INTERIM REPORTS AND, AT THE COMPLETION OF SPECIAL INSPECTIONS, A FINAL STATEMENT OF SPECIAL INSPECTIONS. REPORTS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER.
6. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF DISCREPANCIES. SUBMITTALS OF REPORTS AND NOTIFICATION OF DISCREPANCIES WERE CORRECTED. THE SPECIAL INSPECTOR SHALL NOTIFY THE REGISTERED DESIGN PROFESSIONAL AND THE CODE ENFORCEMENT OFFICIAL OF DISCREPANCIES WHICH HAVE NOT BEEN CORRECTED.
7. THE CONTRACTOR SHALL COOPERATE WITH THE SPECIAL INSPECTOR INCLUDING ADVANCE NOTICE OF REQUEST TO INSPECT THE WORK AND WITH THE REQUIREMENTS OF ACCESS TO THE WORK AREAS, AND ACCESS TO CONTRACT DOCUMENTS SO THAT INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT HINDRANCE.
8. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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Approved: Project Director

Location	Albany, New York
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Drawing Number

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