

GENERAL:

- THESE NOTES SUPPLY APPLY UNLESS OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
- STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH THE SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
- THE STRUCTURAL TENANT IMPROVEMENTS ARE DESIGNED TO THE 2018 INTERNATIONAL BUILDING CODE, REFERENCED MATERIAL CODES, AND GEORGIA AMENDMENTS.
- THE STRUCTURE SHOWN IN THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL TEMPORARILY BRACE ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, MASONRY, ETC. TO RESIST GRAVITY, EARTH, WIND, SEISMIC, AND CONSTRUCTION LOADS DURING THE CONSTRUCTION PERIOD.

EXISTING CONDITIONS:

- THE CONTRACTOR SHALL SURVEY THE EXISTING SITE TO DETERMINE THAT ALL STRUCTURES AS INDICATED IN THE DRAWINGS CAN BE CONSTRUCTED AS SHOWN AND SHALL REPORT ANY DISCREPANCIES OR UNUSUAL CONDITIONS, SUCH AS EXISTING STRUCTURES AND UTILITIES, TO THE ENGINEER.

- FIELD MEASUREMENTS SHALL BE TAKEN AS REQUIRED TO DIMENSION ALL STRUCTURAL ELEMENTS PRIOR TO THE SUBMISSION OF SHOP DRAWINGS.

STRUCTURAL OBSERVATIONS:

- THE CONTRACTOR SHALL PROVIDE THE STRUCTURAL ENGINEER 48 HOURS NOTICE PRIOR TO THE FOLLOWING MILESTONES SO THAT THE APPROPRIATE STRUCTURAL OBSERVATION MAY BE PERFORMED: (OBSERVATION MAY BE IN-PERSON OR VIA VIDEO CONFERENCING SUCH AS ZOOM FOR SOCIAL DISTANCING & ECONOMY)

COMPLETION OF FRAMING

- IF ANY FIELD CONDITION FOR LAYOUT OR CONNECTIONS VARIES FROM THESE DRAWINGS, CONTACT THE SPECIALTY ENGINEER FOR REVIEW AND SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD.

SHALLOW FOUNDATIONS:

- THE DESIGN ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED TO BE 2000 PSF AT ALL FOOTINGS AND SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER REGISTERED IN GEORGIA PRIOR TO THE PLACEMENT OF CONCRETE.
- ALL FOOTINGS SHALL BEAR ON ORIGINAL, UNDISTURBED SOIL, WHERE POSSIBLE. IF BACKFILL OR REMEDIATION IS REQUIRED, IT SHALL BE PREPARED BASED ON THE RECOMMENDATIONS OF A QUALIFIED GEOTECHNICAL ENGINEER REGISTERED IN GEORGIA.
- ANY FILL PLACED WITHIN 10'-0" OF THE BUILDING PERIMETER SHALL BE COMPACTED BASED ON THE RECOMMENDATIONS OF A QUALIFIED GEOTECHNICAL ENGINEER REGISTERED IN GEORGIA.
- ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 16" BELOW EXTERIOR FINISHED GRADE OR AS DIRECTED BY A QUALIFIED GEOTECHNICAL ENGINEER REGISTERED IN GEORGIA.

CONCRETE:

- CONSTRUCTION OR CONTROL JOINTS SHALL BE PROVIDED IN SLABS ON GRADE SO THAT THE MAXIMUM AREA OF SLAB BETWEEN JOINTS SHALL BE SPACED AT 12'-0" O.C. MAX (EACH WAY).
- REINFORCING BARS SHALL CONFORM TO ASTM A 615-13. ALL REBAR SHALL BE GRADE 60. REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A 706 AND ASTM A 496, GRADE 70. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL BY THE AMERICAN WELDING SOCIETY FOR COMPLIANCE WITH ACI 318-11, SECTION 3.5.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-82 AND A-185. PROVIDE 2 SQUARE MINIMUM LAP AT SPLICES. WELDED WIRE FABRIC SHALL BE IN FLAT SHEETS ONLY, WELDED WIRE FABRIC IN ROLLS IS NOT PERMITTED.
- CONCRETE MIXES SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. MIXES SHALL CONFORM TO THE REQUIREMENTS IN THE "CONCRETE MIX SCHEDULE."
- ALL CONTINUOUS HORIZONTAL BARS SHALL HAVE 42 BAR DIAMETER LAP SPLICE WITH CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS.
- ALL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-11/318R-11 AND ACI 301.
- THE DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLAB, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318-11 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.)
- SLABS WILL BE POURED TO A MINIMUM TOLERANCE OF FF = 35/ FL = 25 (OVERALL AVERAGE) AND FF = 25/FL = 17 (LOCAL MINIMUM) AS DETERMINED BY ASTM E 1155-87. PROVIDED BURNISHED STEEL TROWELED FINISH TO ALL INTERIOR SLABS.
- A MINIMUM OF 70% OF SAND IN ALL CONCRETE SHALL BE NATURAL SAND.
- THE USE OF SMOOTH GRAVEL SHALL NOT BE PERMITTED IN ANY SLAB ON GRADE CONCRETE. COARSE AGGREGATE FOR ALL SLABS SHALL CONSIST OF QUARRIED ANGULAR CRUSHED STONE.
- NO WATER SHALL BE ADDED TO CONCRETE MIXES BY THE CONTRACTOR OR SUBCONTRACTORS. IF WATER IS LEFT OUT OF THE MIX FOR TRANSPORTATION, ANY WATER ADDED BY THE CONCRETE SUPPLIER SHALL BE MEASURED AND MONITORED BY THE SPECIAL INSPECTOR BASED ON SUBMITTED REQUIREMENTS BY THE CONCRETE SUPPLIER.
- MINIMUM CONCRETE COVER:
 - 1.5" FOR INTERIOR CONCRETE CONDITIONS
 - 2" FOR CONCRETE EXPOSED TO MOISTURE, WEATHER, OR WATER
 - 3" FOR CONCRETE CAST AGAINST SOIL

SHOP DRAWINGS:

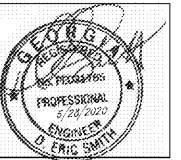
- WRITTEN PERMISSIONS MUST BE OBTAINED FROM D. ERIC SMITH, P.E. PRIOR TO THE REPRODUCTIVE USE OF THE STRUCTURAL CONTRACT DOCUMENTS IN ANY FASHION AS STRUCTURAL SHOP DRAWING DOCUMENTS.
- THE FOLLOW SHOP DRAWINGS AND MATERIAL DATA SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW. A MINIMUM OF 4 COPIES OF EACH ARE REQUIRED. (A COPY OF EACH SUBMITTAL SHALL BE KEPT ON-SITE FOR REVIEW OF THE INSPECTOR AT THE TIME OF INSPECTION.)
 - CONCRETE MIX DESIGNS WITH TEST DATA (30 SAMPLES) AND MATERIAL CERTIFICATES FOR EACH TYPE OF CONCRETE
 - REINFORCING STEEL
 - HANGERS, CONNECTORS AND FASTENERS IF DIFFERENT THAN SPECIFIED.
- COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF ALL APPLICABLE SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO, PRECAST CONCRETE, CURTAIN WALL GLAZING SYSTEMS, LIGHT GAGE METAL FRAMING, ORNAMENTAL GUARD RAILS, SKYLIGHTS, AND STAIRS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN GEORGIA AND SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION. STAMPED SUBMITTALS SHALL BE SUBMITTED TO THE PERMIT OFFICE FOR REVIEW AFTER REVIEW BY THE ENGINEER OF RECORD.

APA RATED WALL SHEATHING:

- ALL WALL SHEATHING SHALL BE 7/16" THICK APA RATED WALL SHEATHING (EXPOSURE III).
- THE LONG SIDE OF THE SHEATHING SHALL BE PERPENDICULAR TO THE SUPPORT. AT AN END BUTT CONDITION, THE EDGE OF THE SHORT SIDE SHALL BE CENTERED ON THE SUPPORT. THE SHORT EDGE SHALL ALSO BE CENTERED ON THE TWO ADJACENT PANELS (ABOVE AND BELOW) SUCH THAT THERE ARE NO CONTINUOUS SHEATHING SHORT SIDE JOINTS IN THE ASSEMBLY.
- 10d NAILS SHALL BE THE MINIMUM FASTENER USED IN WOOD-TO-WOOD CONNECTIONS. IN WOOD-TO-LG METAL, #10 SELF-TAPPING SCREWS SHALL BE THE MINIMUM FASTENER.
- SPACING OF ROOF AND FLOOR SHEATHING CONNECTIONS SHALL BE AS FOLLOWS:
 - AT DECK PERIMETER: 4" O.C.
 - AT SHEATHING EDGES: 6" O.C.
 - AT SHEATHING INTERIOR SUPPORTS: 12" O.C.
- SHEATHING EDGE SUPPORT CONDITIONS SHALL BE AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION, CONSISTING OF NOMINAL LUMBER BLOCKING.
- SHEATHING END JOINTS SHALL OCCUR OVER BRACING CONDITIONS, WHERE FRAMING IS NOT PRESENT AT ENDS OR FRAMING DIRECTION CHANGES, USE 2x6 NOMINAL LUMBER.
- SHEATHING JOINT LAYOUT SHALL BE STAGGERED PER CASE 1 AND CASE 2 IN THE MANUFACTURER'S LITERATURE.
- WALLS SHALL BE FRAMED WITH CONTINUOUS STUDS. CRIPPLE WALL OR WALLS STACKED ON TOP OF OTHER WITHOUT LATERAL BRACING IS PROHIBITED.

SCHEDULE OF SPECIAL INSPECTION SERVICES					
PROJECT	MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
			Y/N	EXTENT	AGENT* DATE COMPLETED
Concrete Construction					
	Inspection of reinforcing steel installation.	Field inspection	Y	Periodic.	
	Inspection of anchors and reinforcing steel installed in hardened concrete: verify anchor type, anchor dimensions, hole dimensions, hole clearing procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic	
	Verify use of approved design mix	Field review	Y	Periodic	
	Fresh concrete sampling.	Field testing	Y	Continuous	
	Inspection of concrete and shotcrete placement for proper application techniques	Field inspection	Y	Continuous	
	Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic	
	Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	Review field testing and laboratory reports	Y	Periodic	
	Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic	
Wood Construction					
	Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1704.2	Plant review	Y	Periodic	
	High-load diaphragms, verification of grade and thickness of structural panel sheathing.	Field inspection	Y	Periodic	
	For high-load diaphragms, verify nominal size of framing members at adjoining edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agrees with approved bldg plans.	Field inspection	Y	Periodic	
	Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system.	Field inspection	Y	Periodic	
	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic	
	Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic	
	Perform classification and testing of controlled fill materials.	Field inspection	Y	Periodic	
	Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous	
	Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic	

Order Plans @



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Dacula City Hall Storage Building Improvements
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Print Date	Printing Designation
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5/28/2020	Permit Comments

Rev.	Date	Printing Designation

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