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**ST. JUDE
CATHOLIC
CHURCH**

**PARISH HALL
REMODEL &
CONNECTOR
BUILDING**

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MANSFIELD, TX 76063



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PERMIT SET

Drawing Title:
SPECIAL INSPECTIONS

Project No. 2023.297 Date: 1/12/2024



Sheet No.
SO.1

1.12.24

Required Inspection Verification, or Test	Verification Monitoring Frequency	Type and/or Frequency of Testing	IBC Section & Reference Criteria	Inspector Qualifications
CONCRETE CONSTRUCTION				
IBC 1705.3				
A. Reinforcing Steel	Periodic	Provide periodic inspection of reinforcing sizes, spacing, grade of rebar, and placement at the following frequency: Columns: 10% Beams: 30% Joist: 10% Other members: randomly @ 20	IBC 1910.4 ACI 318: 3.5, 7.1-7.7 Structural Notes	Geotechnical Engineer Qualifications based on ASTM E329 & ASTM C1077
B. Reinforcing Steel Welding		No field welding permitted.	AWS D1.4, ACI 318: 3.5.2 IBC Table 1705.2.2, Item 2b	CWI or Associate CWI
C. Inspection of anchors cast in concrete where allowable loads have been increased or where increased anchors are installed in hardened concrete members.	Periodic	(Increase of allowable loads not recommended)	IBC 1908.5, 1909.1 ACI 318: 8.1.3, 21.2.8	Technician trained in field of work and has at least one year of experience.
D. Verify use of required mix design	Periodic	Each concrete placement.	IBC 1909.1 ACI 318 3.8.6, 8.1.3, 21.2.8	Qualifications based on ASTM C1077
E. Sampling of fresh concrete.	Continuous Each Concrete Placement	1. All concrete testing is to be made after water, if any, is added at site. 2. Provide a set of (4) four cylinders to be taken for every 75 cubic yards of concrete, or fraction thereof, by testing lab. 3. Monitor slump, temperature and air content of concrete and notify delivery driver if slump deviates more than plus or minus 1 inch from recommended value. Contact supplier for further directions.	IBC 1910.10 ASTM C 172 ASTM C31 ACI 318 5.6, 5.8	Qualifications based on ASTM C1077
F. Inspection of concrete and shotcrete placement for proper application techniques inspection for maintenance of specified curing temp & techniques Pre-stressed concrete	Continuous		IBC 1910.6, 1910.7, 1910.8 ACI 318 Ch. 5.9, 5.10	Qualifications based on ASTM C1077
G. Inspection of concrete and shotcrete placement for proper application techniques inspection for maintenance of specified curing temp & techniques Pre-stressed concrete	Periodic	Each concrete placement.	IBC 1910.5, 1910.13 ACI 318 5.11-5.13	Qualifications based on ASTM C1077
H. Erection of precast concrete members	Continuous	1. Application of prestressing forces. 2. Grouting of bonded prestressing tendons in seismic-force resisting systems.	ACI 318: 18.20 ACI 318: 18.18.4	Qualifications based on ASTM C1077
I. Post-Tensioned Concrete	Periodic		ACI 318: Ch.16	Technician trained in field of work and has at least one year of experience.
J. Formwork	Periodic	Verify in-situ concrete strength prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	ACI 318: 6.2	Qualifications based on ASTM E329
K. Formwork	Periodic	Inspect formwork for shape, location and dimensions of the concrete member being formed.	ACI 318: 6.1.1	Qualifications based on ASTM E329

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INSPECTION OF FABRICATORS FOR STRUCTURAL STEEL				
IBC 1704.2.5.2				
Fabrication & Implementation Procedures	Periodic	The Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved construction documents and referenced standards. The Special Inspector shall review the procedures for completeness and adequacy relative to the code requirements for the fabricator's scope of work. Exception: Special inspections shall NOT be required where the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. Approval shall be based upon review of the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.		CWI or Licensed Engineer

Required Inspection Verification, or Test	Verification Monitoring Frequency	Type and/or Frequency of Testing	IBC Section & Reference Criteria	Inspector Qualifications
PIER FOUNDATIONS				
IBC 1705.8				
A. Pier Installation	Continuous	1. Observe drilling operations and maintain complete and accurate records for each pier. Address unforeseen subsurface conditions, if any. 2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Verify the bearing stratum is encountered at the anticipated depth. Report concrete volumes. 3. Verify conformance with the foundation recommendations provided in the project 'Geotechnical Engineering Report' and the Structural Drawings issued for the project.	Geotechnical Report; Structural Notes	Geotechnical Engineer Qualifications based on ASTM E329 & ASTM C1077
1. The Geotechnical Engineer shall be present during the excavation of the first pier shaft.				
2. All piers monitored by a representative of the Geotechnical Engineer.				
B. Additional Inspections	Continuous	4. Check reinforcing size, quantity and clearances for concrete piers. Perform additional inspections in accordance with IBC 1705.3		Qualifications based on ASTM E329 & ASTM C1077

Required Inspection Verification, or Test	Verification Monitoring Frequency	Type and/or Frequency of Testing	IBC Section & Reference Criteria	Inspector Qualifications
STEEL CONSTRUCTION				
IBC 1705.2				
A. Material verification of high-strength bolts, nuts and washers	Periodic	1. Identification markings to conform to ASTM standards specified in the approved construction documents. 2. Manufacturer's certificate of compliance required.	Structural Notes Applicable ASTM material specs; AISC 360, Section A3.3, A3.4	CWI / Associate / Technical Graduate, AWS or CRSI
B. High-strength bolting	Periodic Continuous or Periodic	1. Bearing-type connections. 2. Slip-critical connections.	Structural Notes AISC 360, Section M2.5	CWI / Associate / Technical Graduate, AWS or CRSI
C. Material verification of Structural Steel	Periodic	1. Identification markings to conform to ASTM standards specified in the approved construction documents. 2. Manufacturers' certified mill test reports.	Structural Notes ASTM A6 or ASTM A568	CWI / Associate / Technical Graduate, AWS or CRSI
D. Material verification of weld filler materials	Periodic	1. Identification markings to conform to AWS specification in the approved construction documents. 2. Manufacturers' certificate of compliance required.	Structural Notes AISC 360, Section A3.6	CWI / Associate / Technical Graduate, AWS or CRSI
E. Welding of Structural Steel	Continuous	1. Complete and partial penetration groove welds. 2. Multipass fillet welds. 3. Single-pass fillet welds > 5/16" 4. Single-pass fillet welds ≤ 5/16" 5. Floor and roof deck welds.	Structural Notes AWS D1.1 AWS D1.3	CWI and ASNT CWI or Licensed Engineer
F. Welding of Reinforcing Steel	Periodic Continuous	1. Verification of weldability of reinforcing steel other than AWS A501. 2. Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 3. Shear reinforcement. 4. Other reinforcing steel.	AWS D1.4 ACI 318.3.5.2	CWI / Associate / Technical trained in field of work and has at least one year of experience.
G. Steel frame joint details. Compliance with approved construction documents	Periodic	1. Details such as bracing & stiffening. 2. Member locations. 3. Application of joint details at each connection.	IBC 1704.3.2 Structural Drawings	CWI or Licensed Engineer

STRUCTURAL ABBREVIATIONS	ABOVE FINISHED FLOOR..... AFF ADDITIONAL..... ADDL ADJACENT..... ADJ AND..... & ANGLE..... I APPROXIMATE..... APPROX	CAST-IN-PLACE..... C.I.P. CEILING..... CLG CENTERLINE..... CL Conn. Design Specialty Engineer..... CDSE CLEAR..... CLR COLUMN..... COL CONCRETE..... CONC CONCRETE MASONRY UNIT..... CMU CONNECTION (S)..... CONNX CONTINUOUS..... CONT CONSTRUCTION JOINT..... CJ	DRAWING (S)..... DWG (S) DOUBLE..... DBL DOWEL (S)..... DWL (S) EACH..... EA EDGE OF DECK..... EOD ELECTRICAL..... ELEC ELEVATION..... ELEV EMBEDMENT..... EMBED END OF JOIS..... EOJ ENGINEER..... ENGR EQUAL..... EQ EQUIPMENT..... EQUIP EXPANSION..... EXP EXPANSION JOINT..... EJJ EXISTING..... EXIST EXTERIOR..... EXT EXTRA STRONG..... X-STR	FIELD VERIFY..... F.V. FINISHED (ED)..... FIN FINISHED FLOOR..... FIN FL FLANGE..... FLG FLOOR..... FL FLOOR DRAIN..... FD FOOTING..... FTG GAGE OR GAUGE..... GA GALVANIZE (D)..... GALV GLUE LAMINATED WOOD BEAM..... GLB GRADE..... GR GRADE BEAM..... GR BM HEADED STUD ANCHOR..... HSA HEIGHT..... HT HOLLOW STRUCTURAL SECTION..... HSS HORIZONTAL..... HORIZ HOOK..... HK	INFORMATION..... INFO INSIDE DIAMETER..... I.D. INTERIOR..... INT JOINT..... JT JOIST (S)..... JST (S) KIP (1000 LBS)..... K KIP PER LINEAR FOOT..... KLF KIP PER SQUARE FOOT..... KSF LIGHTWEIGHT CONCRETE..... LWL CONC LIVE LOAD..... LL LONGITUDINAL..... LONG LONG LEG HORIZONTAL..... LLH LONG LEG VERTICAL..... LLV MANUFACTURER..... MFR MAXIMUM..... MAX	MECHANICAL..... MECH MEZZANINE..... MEZZ MIDDLE..... MID MISCELLANEOUS..... MISC NOMINAL..... NOM NOT TO SCALE..... NTS NUMBER..... No. OR # ON CENTER..... OC OPPOSITE..... OPP OPPOSITE HAND..... OH OUTSIDE DIAMETER..... O.D. PERPENDICULAR..... PERP PLATE..... PL PLYWOOD..... PLYWD POINT..... PT	POUNDS PER SQUARE FOOT..... PSF POUNDS PER SQUARE INCH..... PSI POWDER ACTUATED FASTENER..... PAF PRECAST CONCRETE..... PC PRE ENGINEERED METAL BUILDING..... PEMB PREFABRICATED..... PREFAB PRELIMINARY..... PRELIM PROJECTION..... PROJ RADIUS..... R REFERENCE (REFER TO)..... REF REINFORCE (ING) (ED) (MENT)..... REINF REQUIRED..... REQ'D ROOF DRAIN..... RD ROOF OPENING..... R.O. ROOM..... RM ROUND..... RND SAWN JOINT..... SJ	SCHEDULE (D)..... SCHED SECTION..... SECT SHEET..... SHT SIMILAR..... SIM SPECIFICATION (S)..... SPEC (S) SQUARE FOOT (FEET)..... SF STANDARD..... STD STEEL..... STL STIFFENER..... STIFF STIRRUPS..... STIR STRUCTURE..... STRUCT STRUCTURAL..... STRUCTL SYMMETRICAL..... SYM SUBCONTRACTOR..... SUBCONTR TEMPERATURE..... TEMP THICK..... THK TONGUE AND GROOVE..... T & G TOP OF BEAM..... TOPBM	TOP OF BEAM..... TOPBM TOP OF FOOTING..... TOP/FTG TOP OF PIER..... TOP/PIER TOP OF PIER CAP..... TOP/PIER CAP TOP OF STEEL..... TOS TOP OF WALL..... TOW TYPICAL..... TYP UNLESS NOTED OTHERWISE..... UNO VERTICAL..... VERT WELDED WIRE REINFORCING..... WWF WIND LOAD..... WL WITH..... w/ WORK POINT..... WP WOOD..... WD WIDE FLANGE..... WF
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