

ERECTION AND TOLERANCES: Cold-formed steel framing shall be erected true and plumb per the requirements and within the specified tolerances listed below. For purposes of this section, camber is defined as the deviation from straightness of a member or any portion of a member with respect to its major axis, and sweep is defined as the deviation from straightness of a member or any portion of a member with respect to its minor axis.

- For exterior envelope studs, out of plumbness and out of straightness (camber and sweep) shall not exceed 1/1000" of the member length.
For track, camber shall not exceed 1/1000" of the member length.
Erect framing in accordance with manufacturer's instruction and shop drawings.
Studs shall seat into top and bottom tracks. The gap between the end of the stud and the web of the bottom track shall not exceed 1/4".

FIELD CUTS AND NOTCHES: Field cuts and notches of any kind (including widening pre-punched holes) are NOT allowed in any structural cold-formed steel member without prior approval from SER.

PERMANENT WALL BRACING AND BRIDGING: The exterior stud walls have been designed as braced by sheathing on both faces and do not require bridging. Notify EDR if conditions differ.

TEMPORARY BRACING: Reference "Temporary Shoring and Bracing" section above.

STEEL STAIRS: Reference STANDARDS: Conform to: 1) IBC Chapter 10 - Means of Egress, IBC Table 1607.1 2) NAAMM - Metals Stairs Manual 3) AWS/AISC 360-10 - Specification for Structural Steel Buildings 4) AISI S100-12 - North American Specification for the Design of Cold-Formed Steel Structural Members 5) AWS D1.1:2010 - Structural Welding Code - Steel 6) AWS D1.3:2008 - Structural Welding Code - Sheet Steel

REVISIONS: 1) IBC Chapter 10 - Means of Egress, IBC Table 1607.1 2) NAAMM - Metals Stairs Manual 3) AWS/AISC 360-10 - Specification for Structural Steel Buildings 4) AISI S100-12 - North American Specification for the Design of Cold-Formed Steel Structural Members 5) AWS D1.1:2010 - Structural Welding Code - Steel 6) AWS D1.3:2008 - Structural Welding Code - Sheet Steel

SUBMITTALS: Steel stairs are to be prepared by a SSE. Reference DEFINITIONS and DEFERRED SUBMITTALS above. Submit structural calculations and shop drawings (component design drawings) stamped by a professional Structural Engineer registered in the state of Washington.

MATERIALS: Structural WF Shapes - ASTM A992 Steel Channels, Angles, Plates & Bar - ASTM A36 Sheet Steel (Galvanized) - ASTM A446 Steel Pipe Rail - ASTM A53, Grade B Steel Tubing - ASTM A500, Grade B Steel Rod - ASTM A36 or A307 Steel Deck - 1-1/2" Composite Floor Deck Bolts - ASTM A325N Welds, Structural Steel - AWS D1.1 Welds, Sheet Steel - AWS D1.3 Welded Headed Studs (WHS) - ASTM A108, AWS D1.1 Headed Concrete Anchors (HCA) - ASTM A108, AWS D1.1

STRUCTURAL REQUIREMENTS: (1) Scope: Include treads, risers, stringers, landings, railings and all connections including connections to the primary structure unless noted otherwise. All inserts required for attachment to the primary structure shall be designed and provided by the stair supplier. (2) Loads: Stair treads shall be designed for 100 PSF live load or a 300 lb. concentrated load placed to produce maximum stress, whichever controls. Stringers and landings shall be designed for 100 PSF live load. Live load deflection shall not exceed 1/360 of the span. The stair assembly and attachment to the main structure shall be designed for lateral loads per IBC Chapter 16. (3) Railings: The completed handrail, guardrail, and supporting structure and their connections shall be designed to resist loads as specified in IBC Section 1607.8.

ARCHITECTURAL REQUIREMENTS: Conform to shape and configuration shown on the architectural drawings. Consult the project specifications for additional information. All steel shall be painted per project specifications with one coat of standard shop primer unless noted otherwise on the drawings or in the specifications.

CONCRETE FILL: Conform to notes, this sheet for CAST-IN-PLACE CONCRETE and CONCRETE REINFORCEMENT. Provide minimum 3000 psi concrete and WWF 6x6-W1.4xW1.4 or Fibermesh unless noted on the drawings.

SPECIAL INSPECTIONS

The following Statement and Schedules of Inspections are those Special Inspections and Tests that shall be performed for this project. Special inspectors shall reference these plans and IBC Chapter 17 for all special inspection requirements. The owner shall retain a WABO accredited Special Inspections agency to provide special inspections for this project. Special inspectors shall be qualified persons per IBC 1704.2.1. Special inspection reports shall be provided on a weekly basis. Submit copies of all inspection reports to the Architect/Engineer and the Authority Having Jurisdiction for review. In addition to special inspection reports and tests, submit reports and certificates noted in IBC 1704.5 to the Authority Having Jurisdiction. Final special inspection reports will be required by each special inspection firm per IBC 1704.2.4.

STATEMENT OF SPECIAL INSPECTIONS: This statement of Special Inspections has been written with the understanding that the Building Official will: - Review and approve the qualifications of the Special Inspectors - Monitor the special inspection activity on the project site to assure that Special Inspectors are qualified and performing their duty as stated within this statement. - Review all Special Inspection Reports submitted to them by the Special Inspector - Perform inspections as required by IBC Section 1103.3.

The following Special Inspections are applicable to this project: - Special Inspections for Standard Buildings (per IBC 1705.1) REQUIRED - Special Inspections for Seismic Resistance (per IBC 1705.12) REQUIRED - Special Inspections for Wind Resistance (per IBC 1705.11) REQUIRED

SPECIAL INSPECTION OF SHOP FABRICATED GRAVITY LOAD BEARING MEMBERS AND ASSEMBLIES: Special Inspection of shop fabricated Gravity Load Bearing Members & Assemblies shall be verified by the Special Inspector as stated in Section 1704.2.5 which includes the following:

- Prior to the start of fabrication: Special Inspector(s), representing the Owner, shall visit the Fabricator's shop(s) where the work is to be performed, and verifies that the Fabricator maintains detailed Fabrication and Quality Control procedures that provide a basis for inspection, control of workmanship, material control, and fabricator's ability to conform to approved Construction Documents and referenced Standards. Fabricator shall have available for Inspector's review, detailed procedures for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, grade and applicable test reports for primary load-carrying members, are capable of being determined.

STRUCTURAL STEEL per IBC 1705.2.1, 1705.12.1

- A qualified Special Inspector of an "approved agency" providing Quality Assurance (QA) Special Inspections for the project shall review and confirm the Fabricator and Erector's Quality Control (QC) procedures for completeness and adequacy relative to AISC 360-10 Chapter N, AISC 303-10 Code of Standard Practice, AWS D1.1-2010 Structural Welding Code, and 2015 IBC code requirements for the fabricator's scope of work. QA Agency providing Special Inspections shall provide personnel meeting the minimum qualification requirements for Inspection and Nondestructive Testing NDT per AISC 360-10 Section N4. Verify Fabricator and Erector QC Program per AISC 360-10 Section N2. Inspection of welds and bolts by both QC and QA personnel shall be per the Schedule of Special Inspections below. All provisions of AWS D1.1-2010 Structural Welding Code for statically loaded structures shall apply. Nondestructive Testing (NDT) of welds: Non-Destructive Testing (NDT) of welded joints per AISC 360-10 N5.5. Risk Category for determination of extent of NDT per AISC 360 N5.5b is noted in the Design Criteria and Loads section of these General Requirements. NDT performed shall be documented and reports shall identify the tested weld by piece mark and location of the piece. For field work, the NDT report shall identify the tested weld by location in the structure, piece mark and location of the piece. Additional inspection tasks per AISC 360-10 Section N5.7. Inspection for Composite Construction shall be done per AISC 360-10 Section N6.

POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY: shall comply with IBC Section 1703. Inspections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special Inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2015 IBC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report.

PREFABRICATED CONSTRUCTION: All prefabricated construction shall conform to IBC Section 1703.

SCHEDULES OF SPECIAL INSPECTIONS:

Table 1705.6: REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS. Columns: TYPE, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION.

Table 1705.3: REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION. Columns: TYPE, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION, REFERENCED STANDARD, IBC REFERENCE.

Table 1705.2.3: REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS. Columns: TYPE, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION, REFERENCED STANDARD.

MINIMUM REQUIREMENTS FOR INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION

Table with 4 columns: INSPECTION TASKS, QC, QA, REFERENCED STANDARD. Rows include inspection tasks prior to welding, inspection tasks during welding, and inspection tasks after welding.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

Table with 6 columns: INSPECTION TASK, FREQUENCY, FREQUENCY, REFERENCE FOR CRITERIA, REFERENCE FOR CRITERIA. Rows include verification compliance, masonry construction, pre-stressing technique, and curing construction.

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR COLD-FORMED STEEL

Table with 3 columns: TYPE, CONTINUOUS SPECIAL INSPECTION, PERIODIC SPECIAL INSPECTION. Rows include periodic spot check, member material, size, and coating, and alignment, placement, and condition.

FOR BID (NOT FOR CONSTRUCTION) - This information is not intended for purposes of construction. It is the responsibility of the contractor to verify all information and to obtain all necessary permits or construction.

ALSC ARCHITECTS logo and contact information: 203 North Washington, Suite 400, Spokane, WA 99201, 509.638.6566.

EDCI ENGINEERS logo and contact information: 707 W 2nd Avenue, Spokane, Washington 99201, P: (509) 455-4448, www.edci-engineers.com.



AMISTAD ELEMENTARY PHASE 2

KENNEWICK SD

BID SET

Table with 3 columns: REV, DATE, DESCRIPTION. Shows revision history.

PROJ. NO. 17041-0193, DRAWN JLP/PADH, CHECKED CJL, DATE 03/01/2019

GENERAL NOTES AND STRUCTURAL SPECIAL INSPECTION

S-003.1

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