SUBMITTAL REVIEW

Submittal: No. 019.00

Spec Section: 26 0000, 28 0000 Complete Elec, Comm, and Fire Alarm

Reviewed By: Laura Landon, Comma-Q Architecture
Date: June 29, 2012
Project: BPS – Belgrade Elementary School
Location: Belgrade, MT
Job Number: 11-03
Copy to: File, Owner

This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the submittals during this review do not relieve the CONTRACTOR from compliance with the requirements of the plans and specifications. An opinion of equivalence of a specific item shall not be interpreted as an opinion of equivalence of an assembly of which the item is a component. Submittal review comments have been made within this format and not on the submittal sheets according to the following:

NEN No Exceptions Noted
GCAN Generally Conforms as Noted
RAN Rejected for Reason as Noted
IAS Incomplete as Submitted

1. 19.00 - 26 0000, 28 0000 Complete Elec, Comm, and Fire Alarm Data Sheets RAN/GCAN

Notes:
1. Please see engineer’s notes.
2. Resubmit only on rejected items; see engineer’s notes.
3. Submittal item #10 - All devices to be ‘Grey’ and face plates to be ‘Stainless Steel’;
4. Submit manufacturer’s color chart (original, do not e-mail) for light fixture ‘G1E’ color selection and exterior light fixture color selection.
5. No notes were made on the original submittal. Because of its un-e-mailable file size, the original submittal is not attached to this review form.

END OF REVIEW
To: Laura Landon

From: Scott Elders

Date In: 6-12-12
Date Reviewed: 6-26-12

Job: New Belgrade Elementary School
Job #11B3758

Number of Copies Returned: One (1) CD
Retained: One (1) CD

Submittal Title: Electrical Submittals

ASSOCIATED CONSTRUCTION ENGINEERING, INC.

☐ Change as noted - No re-submittal required
☐ Revise & Resubmit per comments   ☐ No Exception Taken
Reviewed By: Scott Elders        Date: 6-26-12

Review is for conformance with design concept & compliance with contract documents only. Contractor shall check & verify all quantities, field measurements & shall be responsible for all errors in shop drawings. Contractor shall be responsible for deviations from contract documents unless he has called attention to such deviation and secured written approval. All in accordance with the general conditions.

COMMENTS/REMARKS:

Submittal Item #1: 260519 ELECTRICAL POWER CONDUCTORS & CABLES

Comments:
a. None.

Review Status: Reviewed.

Submittal Item #2: 260526 GROUNDING & BONDING FOR ELECTRICAL SYSTEMS

Comments:
a. None.

Review Status: Reviewed.

**Submittal Item #3: 260529 HANGERS & SUPPORTS FOR ELECTRICAL SYSTEMS**

Comments:
  a. None.

Review Status: Reviewed.

**Submittal Item #4: 260533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS**

Comments:
  a. Provide receptacle cover Hubbell ‘S3825’ instead of ‘S2825’ per construction documents.

Review Status: Change as noted.

**Submittal Item #5: 260536 CABLE TRAYS FOR ELECTRICAL SYSTEMS**

Comments:
  a. None.

Review Status: Reviewed.

**Submittal Item #6: 260548 VIBRATION & SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS**

Comments:
  a. None.

Review Status: Reviewed.

**Submittal Item #7: 260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS**

Comments:
  a. None.

Review Status: Reviewed.

**Submittal Item #8: 262200 LOW-VOLTAGE TRANSFORMERS**

Comments:
a. None.

Review Status: Reviewed.

**Submittal Item #9: 262416 PANELBOARDS**

Comments:
- a. Panel ‘1L3’: Provide an additional 30A/2P breaker at poles 37 and 39 per Addendum 3.0
- b. Panel ‘1K1’: Remove the 70A/3P breaker provided at poles 38, 40 and 42. Replace with three (3) 20A/1P spare breakers.
- c. Panel ‘2L1’: The 20A/2P breaker provide at poles 15 and 17 shall be revised to a 30A/2P breaker. The load on the respective piece of mechanical equipment has increased upon reviewing submittals.

Review Status: Change as noted.

**Submittal Item #10: 262726 WIRING DEVICES**

Comments:
- a. All wiring device colors shall be selected by Architect.
- b. All receptacles are specified as ‘Screw Terminal’ type. Do not use the ‘Plugtail’ type of receptacles submitted.
- c. Electrical contractor to provide receptacle within the ‘Segment Manager Enclosure’ utilizing circuit ‘1L3-10’.

Review Status: Change as noted.

**Submittal Item #11: 262813 FUSES**

Comments:
- a. 1200A fuses were submitted as Class ‘L’. Provide Class ‘J’ fuses as specified for service entrances.

Review Status: Change as noted.

**Submittal Item #12: 262816 ENCLOSED SWITCHES & CIRCUIT BREAKERS**

Comments:
- a. Elevator control switch does not meet the required elevator control switch specified on the drawings. No prior approval was submitted on this piece of equipment. Provide specified equipment.

Review Status: Revise and Resubmit.
**Submittal Item #13: 260519 ELECTRICAL POWER CONDUCTORS & CABLES**

Comments:

a. Lift Station VFD does not meet the required ‘ABB’ VFD specified on the drawings. No prior approval was submitted on this piece of equipment. Provide specified equipment.

Review Status: Revise and Resubmit.

**Submittal Item #14: 263213 GENERATOR SYSTEM**

Comments:

a. Verify two (2) 30A/3P breakers and one (1) 60A/3P breaker are to be provided within the generator.

b. Electrical contractor shall provide fuel consumption rates to Montana Energy Alliance. Montana Energy Alliance shall be responsible for providing adequate piping from tank to generator to run on propane at 100% load.

Review Status: Revise and Resubmit.

**Submittal Item #15: 265100 INTERIOR LIGHTING**

Comments:

a. General Note: Where light fixtures are shown end to end on the plans, contractor shall provide the respective light fixtures in continuous runs at the length shown on the plans.

b. Light Fixture ‘A1E’: No emergency battery ballast required.

c. Light Fixture ‘A6’: Coordinate hard ceiling flange kit dimensions with general contractor and hard ceiling construction methods.

d. Light Fixture ‘F2E’: Provide integral 1400 lumen emergency egress battery ballast per Luminaire Schedule.

e. Light Fixture ‘G1E’: Architect shall select light fixture color.

f. Light Fixtures ‘M1’ and ‘M1E’: Contractor shall review Architectural Elevations and ceiling construction and provide the light fixture pendant at the correct length to mount the respective light fixture at the height specified on the plans.

Review Status: Change as noted.

**Submittal Item #16: 265600 EXTERIOR LIGHTING**

Comments:

a. Architect to select all exterior light fixture colors.
Review Status: Change as noted.

**Submittal Item #17: 271500 DATA VOICE INFRASTRUCTURE**

Comments:

a. All data cable shall be plenum rated or provided in conduit.

b. Provide a submittal for the 6 pair multi-mode fiber optic cable to be run from the Main Level I.T. Room to the Second Level I.T. room.

Review Status: Revise and Resubmit.

**Submittal Item #18: 275123.50 EDUCATIONAL INTERCOMMUNICATIONS & PROGRAM SYSTEMS**

Comments:

a. None.

Review Status: Reviewed.

**Submittal Item #19: 280513 CONDUCTORS & CABLES FOR ELECTRONIC SAFETY AND SECURITY**

Comments:

a. None.

Review Status: Reviewed.

**Submittal Item #20: 283111 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM**

Comments:

a. Contractor responsible for coordinating remote power supply panels and providing 120V as needed to the locations.

b. Fire alarm devices shall be white with ‘RED’ letters as specified.

Review Status: Change as noted.

**END OF REVIEW**
MARTEL CONSTRUCTION, INC.
1203 South Church Avenue
Bozeman, MT  59715-5901
Telephone: (406) 586-8585  Facsimile: (406) 586-8646

TO:  Comma Q Architects
109 North Rouse Ave #1
Bozeman, MT  59715

ATTENTION:  Laura Landon

BELGRADE ELEMENTARY SCHOOL

DATE  06/11/12
JOB NO.  12-001

TRANSMITTAL/SUBMITTAL NO.  19.00

RE:  Divisions 26-28 Complete Submittals

We are hand delivering

We are sending via Email

ATTACHED UNDER SEPARATE COVER

Shop drawings
Prints
Plans
Samples
Specifications
Copy of letter
Change order
Product Data

THESE ARE TRANSMITTED as checked below:

FOR BIDS DUE

PRINTS RETURNED AFTER LOAN TO US

REMARKS:

2 CD’s will be delivered 1 to ACE and 1 to CQ for review

COPY TO  File
Scott- ACE

SIGNED:  Mike Wilkinson - Project Engineer

If enclosures are not as noted, kindly notify us at once.
Belgrade Elementary School
Belgrade, Montana

Electrical Submittals

Prepared by Liberty Electric
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Missoula, Montana 59808
jeff.hobirk@libertyelectricinc.com
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260519 Electrical Power Conduits & Cables
260526 Grounding & Bonding for Electrical Systems
260529 Hangers & Supports for Electrical Systems
260533 Raceway and Boxes for Electrical Systems
260536 Cable Trays for Electrical Systems
260548 Vibration & Seismic Controls for Electrical Systems
260533 Identification for Electrical Systems
262200 Low-Voltage Transformers
262416 Panelboards
262726 Wiring Devices
262813 Fuses
262816 Enclosed Switches & Circuit Breakers
263213 Generator System
263600 Transfer Switches
265100 Interior Lighting
265600 Exterior Lighting
271500 Data Voice Infrastructure
275123 Educational Intercommunications & Program Systems
280513 Conductors & Cables for Electronic Safety and Security
283111 Digital, Addressable Fire Alarm System