



Facility Development
1325 S. Cliff Ave
Sioux Falls, SD 57117

Project Name **St. Michael's Hospital Avera**

Addendum # **3**

Date **5-05-14**

Sent by **Jacob T. Bunde AIA**
Jacob.bunde@avera.org
605-322-7802

NOTE: BID DATE IS POSTPONED TO THURSDAY 5-08-14 BEFORE 3:00

NOTE: Provide a \$20,000 allowance for a new canopy.

ARCHITECTURAL

Specifications:

1. ACT1 is to be Armstrong Cirrus 584, White, Tegular Edge. See attached Spec
2. 015000 Site enclosure fence is to be chain link not orange snow fence.
3. See attached instructions to bidders for Performance and Payment Bond information.

Drawings:

1. 5/2A Note "WALLS TO REMAIN. LIMIT OF DEMOLITION" is incorrect. The entire convent is to be demolished per Pre-Bid site meeting.
2. Structural details 9 & 10/S3.1 are to be used for the joist bearing in lieu of 2/A5.
3. Detail 2/A3 Densglass Fireguard Sheathing can be substituted in lieu of drywall.
4. Detail 2/A9 is to receive a waterproof membrane on the face of the exterior foundation wall.
5. See attached A3.0 for brick recess detail
6. The drawings show center glazed – per spec they are to be front glazed.

General Questions:

1. **Project completion date to be 1-22-15**
2. The generator pad will be per the detail on sheet E3.2. The e.c. will take care of the installation. It will be approx. 6'x8' depending on the manufacturer selected.
3. Exterior walls a to receive batt insulation with an interior vapor barrier.
4. Countertop supports are to be Heavy Duty Shelf Brackets 3/16" thick bar steel 1-3/16"W
5. Testing & inspections are to be coordinated by contactor and billed to owner.
6. Or room is to receive a new ACT 2 Sealed/cleanable Acoustical tile suspended ceiling at the same elevation as the existing. Existing OR boom is to be relocated in the same location.
7. All disrupted site areas are to be hydro seeded.
8. Per pre-bid site meeting new finishes are to match existing along all exterior walls adjacent to the demolition.
9. Follow up to addendum 2 – the floor and walls of the shower are to be tile. The architectural drawings portray an ADA insert. They are to be ADA tile showers.
10. Per drawings the restroom walls without wainscot do receive a 4" base.
11. All exterior windows except the chapel window require window treatments.
12. The city of Tyndall wants the street repaired with asphalt patching.
13. Earthwork is referenced on Sheet S1.0, IBC 1704.7 and the soils report.
14. Tyndall does not have a city engineer but they have a Street & Utility Superintendent. Bob Brattmiller ph. 605-661-2377
15. Stockpiling of topsoil can be on-site provided there is adequate room.
16. Budget for a new Oxygen tank pad and frost free foundation similar to the existing. (This is yet to be verified with the supplier)
 - a. A chain link fence is required around the oxygen tank.



Facility Development

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Sioux Falls, SD 57117

MECHANICAL

See attached

ELECTRICAL

See attached

CIVIL

Drawings:

General Contractor List

Attn: Aaron Eich
Sioux Falls Construction
800 S. 7th Avenue
PO Box 2728
Sioux Falls, SD 57104

Attn: Kevin Schulz
Welfl Construction
800 W. 23rd Street
Yankton, SD 57078

Attn: Doug Moser
Radec Construction
308 N Broadway Avenue
Hartington, NE 68739

Attn: Scott Doom

SECTION 002113 - INSTRUCTIONS TO BIDDERS

1.1 INSTRUCTIONS TO BIDDERS

- A. AIA Document A701, "Instructions to Bidders," is hereby incorporated into the Procurement and Contracting Requirements by reference.

- 1. A copy of AIA Document A701, "Instructions to Bidders," is bound in this Project Manual.

END OF SECTION 002113

SECTION 002213 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

1.1 INSTRUCTIONS TO BIDDERS

- A. Instructions to Bidders for Project consist of the following:

- 1. AIA Document A701, "Instructions to Bidders[."
 - 2. The following Supplementary Instructions to Bidders that modify and add to the requirements of the Instructions to Bidders.

1.2 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS, GENERAL

- A. The following supplements modify AIA Document A701, "Instructions to Bidders." Where a portion of the Instructions to Bidders is modified or deleted by these Supplementary Instructions to Bidders, unaltered portions of the Instructions to Bidders shall remain in effect.

1.3 ARTICLE 1 - DEFINITIONS

1.4 ARTICLE 2 - BIDDER'S REPRESENTATIONS

- A. Add Section 2.1.3.1:

- 1. 2.1.3.1 - The Bidder has investigated all required fees, permits, and regulatory requirements of authorities having jurisdiction and has properly included in the submitted bid the cost of such fees, permits, and requirements not otherwise indicated as provided by Owner.

- B. Add Section 2.1.5:

- 1. 2.1.5 - The Bidder is a properly licensed Contractor according to the laws and regulations of Tyndall, SD and meets qualifications indicated in the Procurement and Contracting Documents.

- C. Add Section 2.1.6:

- 1. 2.1.6 - The Bidder has incorporated into the Bid adequate sums for work performed by installers whose qualifications meet those indicated in the Procurement and Contracting Documents.

1.5 ARTICLE 3 - BIDDING DOCUMENTS

- A. 3.2 - Interpretation or Correction of Procurement and Contracting Documents:

- 1. Add Section 3.2.2.1:

- B. 3.4 - Addenda:

- 1. Delete Section 3.4.3 and replace with the following:

- a. 3.4.3 - Addenda may be issued at any time prior to the receipt of bids.

- 2. Add Section 3.4.4.1:

- a. 3.4.4.1 - Owner may elect to waive the requirement for acknowledging receipt of 3.4.4 Addenda as follows:

- 1) 3.4.4.1.1 - Information received as part of the Bid indicates that the Bid, as submitted, reflects modifications to the Procurement and Contracting Documents included in an unacknowledged Addendum.
- 2) 3.4.4.1.2 - Modifications to the Procurement and Contracting Documents in an unacknowledged Addendum do not, in the opinion of Owner, affect the Contract Sum or Contract Time.

1.6 ARTICLE 4 - BIDDING PROCEDURES

A. 4.1 - Preparation of Bids:

1. Add Section 4.1.1.1:
 - a. 4.1.1.1 - Printable electronic Bid Forms and related documents are available from [Architect]
2. Add Section 4.1.8:
 - a. 4.1.8 - The Bid shall include unit prices when called for by the Procurement and Contracting Documents. Owner may elect to consider unit prices in the determination of award. Unit prices will be incorporated into the Contract.
3. Add Section 4.1.9:
 - a. 4.1.9 - Owner may elect to disqualify a bid due to failure to submit a bid in the form requested, failure to bid requested alternates or unit prices, failure to complete entries in all blanks in the Bid Form, or inclusion by the Bidder of any alternates, conditions, limitations or provisions not called for.
4. Add Section 4.1.10:
 - a. 4.1.10 - Bids shall include sales and use taxes. Contractors shall show separately with each monthly payment application the sales and use taxes paid by them and their subcontractors in the form indicated. Reimbursement of sales and use taxes, if any, shall be applied for by Owner for the sole benefit of Owner.

B. 4.3 - Submission of Bids:

1. Add Section 4.3.1.2:
 - a. 4.3.1.2 - Include Bidder's Contractor License Number applicable in Project jurisdiction on the face of the sealed bid envelope.

C. 4.4 - Modification or Withdrawal of Bids:

1. Add the following sections to 4.4.2:
 - a. 4.4.2.1 - Such modifications to or withdrawal of a bid may only be made by persons authorized to act on behalf of the Bidder. Authorized persons are those so identified in the Bidder's corporate bylaws, specifically empowered by the Bidder's charter or similar legally binding document acceptable to Owner, or by a power of attorney, signed and dated, describing the scope and limitations of the power of attorney. Make such documentation available to Owner at the time of seeking modifications or withdrawal of the Bid.
 - b. 4.4.2.2 - Owner will consider modifications to a bid written on the sealed bid envelope by authorized persons when such modifications comply with the following: the modification is indicated by a percent or stated amount to be added to or deducted from the Bid; the amount of the Bid itself is not made known by the modification; a signature of the authorized person, along with the time and date of the modification, accompanies the modification. Completion of an unsealed bid form, awaiting final figures from the Bidder, does not require power of attorney due to the evidenced authorization of the Bidder implied by the circumstance of the completion and delivery of the Bid.

D. 4.5 - Break-Out Pricing Bid Supplement:

1. Add Section 4.5:

- a. 4.5 - Provide detailed cost breakdowns[on forms provided] no later than two business days following Architect's request.

E. 4.6 - Subcontractors, Suppliers, and Manufacturers List Bid Supplement:

1. Add Section 4.6:

- a. 4.6 - Provide list of major subcontractors, suppliers, and manufacturers furnishing or installing products[on forms provided] no later than [two] <Insert number> business days following Architect's request. Include those subcontractors, suppliers, and manufacturers providing work totaling [three] <Insert number> percent or more of the Bid amount. Do not change subcontractors, suppliers, and manufacturers from those submitted without approval of Architect.

1.7 ARTICLE 5 - CONSIDERATION OF BIDS

A. 5.2 - Rejection of Bids:

1. Add Section 5.2.1:

- a. 5.2.1 - Owner reserves the right to reject a bid based on Owner's and Architect's evaluation of qualification information submitted following opening of bids. Owner's evaluation of the Bidder's qualifications will include: status of licensure and record of compliance with licensing requirements, record of quality of completed work, record of Project completion and ability to complete, record of financial management including financial resources available to complete Project and record of timely payment of obligations, record of Project site management including compliance with requirements of authorities having jurisdiction, record of and number of current claims and disputes and the status of their resolution, and qualifications of the Bidder's proposed Project staff and proposed subcontractors.

1.8 ARTICLE 6 - POSTBID INFORMATION

A. 6.1 - Contractor's Qualification Statement:

1. Add Section 6.1.1:

- a. 6.1.1 - Submit Contractor's Qualification Statement no later than [two] <Insert number> business days following Architect's request.

B. 6.3 - Submittals:

1. Add Section 6.3.1.4:

- a. 6.3.1.4 - Submit information requested in Sections 6.3.1.1, 6.3.1.2, and 6.3.1.3 no later than [two] <Insert number> business days following Architect's request.

1.9 ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

A. 7.1 - Bond Requirements:

1. Add Section 7.1.1.1:

- a. 7.1.1.1 - Both a Performance Bond and a Payment Bond will be required, each in an amount equal to 100 percent of the Contract Sum.

B. 7.2 - Time of Delivery and Form of Bonds:

1. Delete the first sentence of Section 7.2.1 and insert the following:

- a. The Bidder shall deliver the required bonds to Owner no later than [10] days after the date of Notice of Intent to Award and no later than the date of execution of the Contract, whichever occurs first. Owner may deem the failure of the Bidder to deliver required bonds within the period of time allowed a default.

2. Delete Section 7.2.3 and insert the following:

- a. 7.2.3 - Bonds shall be executed and be in force on the date of the execution of the Contract.

1.11 ARTICLE 9 - EXECUTION OF THE CONTRACT

A. Add Article 9:

1. 9.1.1 - Subsequent to the Notice of Intent to Award, and within [10] days after the prescribed Form of Agreement is presented to the Awardee for signature, the Awardee shall execute and deliver the Agreement to Owner through [Ar chitect] in such number of counterparts as Owner may require.
2. 9.1.2 - Owner may deem as a default the failure of the Awardee to execute the Contract and to supply the required bonds when the Agreement is presented for signature within the period of time allowed.
3. 9.1.3 - Unless otherwise indicated in the Procurement and Contracting Documents or the executed Agreement, the date of commencement of the Work shall be the date of the executed Agreement[or the date that the Bidder is obligated to deliver the executed Agreement and required bonds to Owner].
4. 9.1.4 - In the event of a default, Owner may declare the amount of the Bid security forfeited and elect to either award the Contract to the next responsible bidder or re-advertise for bids.

END OF SECTION 002213

SECTION 09 51 13 (09510)

ACOUSTICAL PANEL CEILINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Acoustical ceiling panels.
 - 2. Exposed grid suspension system.
 - 3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings.
- B. Related Sections:
 - 1. Section 01350, Special Environmental Requirements
 - 2. Section 09250 - Gypsum Board
 - 3. Section 09120 - Suspension System Framing and Furring for Plaster and Gypsum Board Assemblies
 - 4. Division 15 Sections - Mechanical Work
 - 5. Division 16 Sections - Electrical Work
- C. Alternates
 - 1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products which have not been approved by Addenda, the specified products shall be provided without additional compensation.
 - 2. Submittals which do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Underwriters' Laboratories Classified Acoustical performance; Panel design, size, composition, color, and finish; Suspension system component profiles and sizes; Compliance with the referenced standards.

1.3 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
 - 2. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
 - 3. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
 - 4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
 - 5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
 - 6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
 - 7. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
 - 8. ASTM E 1414 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum.
 - 9. ASTM E 1111 Standard Test Method for Measuring the Interzone Attenuation of Ceilings Systems.
 - 10. ASTM E 1264 Classification for Acoustical Ceiling Products.
 - 11. ASTM E 1477 Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.
 - 12. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
 - 13. ASTM E 119 Standard Test Methods for Fire Tests of Building Construction and Material.
- B. ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
- B. Samples: Minimum 6 inch x 6 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.

- C. Shop Drawings: Layout and details of acoustical ceilings. Show locations of items which are to be coordinated with, or supported by the ceilings.
- D. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry an approved independent laboratory classification of NRC, CAC, and AC.
- E. If the material supplied by the acoustical subcontractor does not have an Underwriter's Laboratory classification of acoustical performance on every carton, subcontractor shall be required to send material from every production run appearing on the job to an independent or NVLAP approved laboratory for testing, at the architect's or owner's discretion. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.
- B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.
 - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.
 - a. Flame Spread: 25 or less
 - b. Smoke Developed: 50 or less
- C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.
- C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.7 PROJECT CONDITIONS

- A. Space Enclosure:

All ceiling products and suspension systems must be installed and maintained in accordance with Armstrong written installation instructions for that product in effect at the time of installation and best industry practice. Prior to installation, the ceiling product must be kept clean and dry, in an environment that is between 32°F (0°C) and 120°F (49°C) and not subject to Abnormal Conditions.

Abnormal conditions include exposure to chemical fumes, vibrations, moisture from conditions such as building leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

HumiGuard Plus Ceilings: Installation of the products shall be carried out where the temperature is between 32°F (0° C) and 120°F (49° C). It is not necessary for the area to be enclosed or for HVAC systems to be functioning. All wet work (plastering, concrete, etc) must be complete and dry.

The ceilings must be maintained to avoid excessive dirt or dust buildup that would provide a medium for microbial growth on ceiling panels. Microbial protection does not extend beyond the treated surface as received from the factory, and does not protect other materials that contact the treated surface such as supported insulation materials.

1.8 WARRANTY

- A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:
 - 1. Acoustical Panels: Sagging and warping as a result of defects in materials or factory workmanship.
 - 2. Grid System: Rusting and manufacturer's defects
 - 3. Acoustical Panels with BioBlock Plus or designated as inherently resistive to the growth of micro-organisms installed with Armstrong suspension systems: Visible sag and will resist the growth of mold/mildew and gram positive and gram negative odor and stain causing bacteria.
- B. Warranty Period Humiguard:
 - 1. Acoustical panels: Ten (10) years from date of substantial completion.
 - 2. Grid: Ten (10) years from date of substantial completion.
 - 3. Acoustical panels and grid systems with HumiGuard Plus or HumiGuard Max performance supplied by one source manufacturer is thirty (30) years from date of substantial completion.
- C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.9 MAINTENANCE

- A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.
 - 1. Acoustical Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.
 - 2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

Part 2-PRODUCTS

2.1 MANUFACTURERS

A. Ceiling Panels:

- 1. Armstrong World Industries, Inc.

2.2.0 ACOUSTICAL CEILING UNITS

A. Acoustical Panels Type ACT-1:

- 1. Surface Texture: Fine
- 2. Composition: Mineral Fiber
- 3. Color: White
- 4. Size: 24in X 24in X 3/4in
- 5. Edge Profile: Angled Tegular for interface with compatible Armstrong grid.
- 6. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton, 0.70.
- 7. Ceiling Attenuation Class (CAC): ASTM C 1414; Classified with UL label on product carton, 35
- 8. Emissions Testing: Section 01350 Protocol, < 13.5 ppb of formaldehyde when used under typical conditions required by ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"
- 9. Flame Spread: ASTM E 1264; Class A (UL)
- 10. Light Reflectance (LR): ASTM E 1477; White Panel: Light Reflectance: 0.86.
- 11. Dimensional Stability: HumiGuard Plus - Temperature is between 32°F (0° C) and 120°F (49° C). It is not necessary for the area to be enclosed or for HVAC systems to be functioning. All wet work (plastering, concrete, etc) must be complete and dry.
- 12. Antimicrobial Protection: BioBlock Plus - Resistance against the growth of mold/mildew and gram positive and gram negative odor and stain causing bacteria.
- 13. Acceptable Product: Cirrus Square Lay-In and Tegular, 584 as manufactured by Armstrong World Industries.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations. (Exception: HumiGuard Max Ceilings)

3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.
- B. Coordination: Furnish layouts for preset inserts, clips, and other ceiling anchors whose installation is specified in other sections.
 - 1. Furnish concrete inserts and similar devices to other trades for installation well in advance of time needed for coordination of other work.

3.3 INSTALLATION

- A. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.
- B. Suspend main beam from overhead construction with hanger wires spaced 4'-0" on center along the length of the main runner. Install hanger wires plumb and straight.

- C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.
- E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

3.4 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage.
 - 1. Ceiling Touch-Up Paint, (Item #5760, 8oz. bottles) (Item #5761, quart size cans), "global white" latex paint should be used to hide minor scratches and nicks in the surface and to cover field tegularized edges that are exposed to view.
- C. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 09 83 19 (09710)
ACOUSTICAL WALL PANELS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

1.2 SUMMARY

A. Section Includes:

1. Acoustical wall panels and installation components.

B. Related Sections:

1. Section 09 20 00 (09200) – Plaster and Gypsum Board
2. Division 26 (16) Sections - Electrical Work

C. Alternates

1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products which have not been approved by Addenda, the specified products shall be provided without additional compensation.
2. Submittals which do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Factory Mutual Classified Acoustical performance; Panel design, size, composition, color, and finish; installation system component profiles and sizes; Compliance with the referenced standards.

1.3 REFERENCES

A. Test Methods:

1. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
2. ASTM E 84/CAN/ULC S102 Standard Test Method for Surface Burning Characteristics of Building Materials.
3. CAN/ULC S102 Standard Test Method for Surface Burning Characteristics of Building Materials.
4. NFPA 265 (UBC 8-2) Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls

1.4 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for each type of acoustical wall panel required.

B. Samples: Minimum 6 inch x 6 inch samples of specified acoustical wall panel; minimum 4 inch long samples of attachment method including trim and decorative accents.

- C. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry Factory Mutual Laboratory classification of NRC.
- D. Shop Drawings: Submit shop drawings showing how panels are to be laid out on the walls, details of trim members and width of panels. Width of panels and location of vertical seams are critical.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and installation components by a single manufacturer.
- B. Fire Performance Characteristics: Identify acoustical wall components with appropriate markings of applicable testing and inspecting organization.
 - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84,
 - a. Flame Spread: 25 or less
 - b. Smoke Developed: 200 or less
 - 2. Room/Corner Wall Test: Fabric-covered material shall meet the acceptance criteria of the NFPA 265 (UBC 8-2) Corner Test.
- C. Coordination of Work: Coordinate acoustical wall work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical wall panels to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical wall panels, permit them to reach room temperature and a stabilized moisture content.
- C. Handle acoustical wall panels carefully to avoid chipping edges or damaged units in any way.

1.7 PROJECT CONDITIONS

- A. Space Enclosure:
 - 1. Soundsoak Fiberglass Panels: All wet work must be complete and dry prior to installation. Installation shall be carried out where the temperature is between 40 degrees F and 120 degrees F. These temperature conditions must be maintained throughout the life of the warranty.
 - 2. Soundsoak Mineral Fiber Panels: All wet work must be complete and dry prior to installation. Installation shall be carried out where the temperature is between 32 degrees F and 86 degrees F. These temperature conditions must be maintained throughout the life of the warranty. All wet work must be complete and dry.

1.8 WARRANTY

- A. Acoustical Wall Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:
 - 1. Acoustical Wall Panels: Manufacturer's defects
- B. Warranty Period:
 - 1. Acoustical wall panels: One (1) year from date of substantial completion.

- C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

1.9 MAINTENANCE

- A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.
1. Acoustical Wall Panels: Furnish quantity of full-size units equal to 5.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acoustical Wall Panels:
1. Armstrong World Industries, Inc.

2.2 ACOUSTICAL WALL PANELS

- A. Acoustical Wall Panels: Type AWP-1:
1. Surface Texture: (fabric) (vinyl)
 2. Composition: (mineral fiber) (fiberglass)
 3. Finish: (Guilford 701) (Lido) (Spinel) (Zirconia) (Anchorage) (Metallation) (Rhythms) (Tempo) (Soundsoak 60/85) (Classic Vinyl) (Signature Vinyl)
 4. Color: As selected by architect from manufacturer's standard color offering.
 5. Thickness: Mineral Fiber (5/8 inch) (3/4 inch); Fiberglass (1 inch).
 6. Width: (24 inches) (30 inches – available for mineral fiber only)
 7. Panel Heights: (6 feet) (8 feet) (9 feet) (10 feet)
 8. Edge Profile: K2C2 both vertical edges for interface with plastic "H" spline for installation.
 9. Noise Reduction Coefficient (NRC): ASTM C 423; A Mounting (0.50) (0.60) (0.65) (0.70) (0.80); D Mounting (0.50) (0.65) (0.70) (0.75) (0.85) (0.90).
 10. Flame Spread: ASTM E84; composite rating 25 or less flame spread/200 or less smoke developed.
 11. Room/Corner Wall Test: NFPA 265 (UBC 8-2): Pass.
 12. Dimensional Stability: Standard – space must be enclosed with HVAC systems operating at all times.
 13. Acceptable Product: Soundsoak, Item Number, as manufactured by Armstrong World Industries.
- B. Acoustical Wall Panel Accessories:
1. Internal spline ("H" Spline): Item #428
 2. J molding, heavy-duty plastic J molding
 - a. Item #4062: 1 inch x 10 feet
 - b. Item #4064: ¾ inch x 10 feet
 - c. Color: (frost grey) (black) (grid white) (light tone) (sand)
 3. Fabric-covered High Impact Corner including receiver and spline, Item #3856__.
 4. Char Rails, solid wood molding
 - a. Item #5861: Mounting Rail (Maple) (Light Cherry) (Dark Cherry) (Mahogany) (Unfinished)
 - b. Item #5862: Rail Spacer for Soundsoak 85 (Unfinished)
 - c. Item #5863: Rail Insert (Maple) (Light Cherry) (Dark Cherry) (Mahogany) (Unfinished)
 - d. Item #5863NA: Rail Insert Solid Wood and Aluminum (Aluminum finish)
 - e. Item #5864: Rail Cap (Maple) (Light Cherry) (Dark Cherry) (Mahogany) (Unfinished)
 - f. Item #5865: Extended Rail Cap for Soundsoak 85 (Maple) (Light Cherry) (Dark Cherry) (Mahogany) (Unfinished)

- g. Item #5866: Easel Ledge (Maple) (Light Cherry) (Dark Cherry) (Mahogany) (Unfinished)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations.

3.2 PREPARATION

- A. Measure each wall area and establish layout of acoustical units to balance border widths at opposite edges of each wall. Coordinate panel layout with mechanical and electrical fixtures.

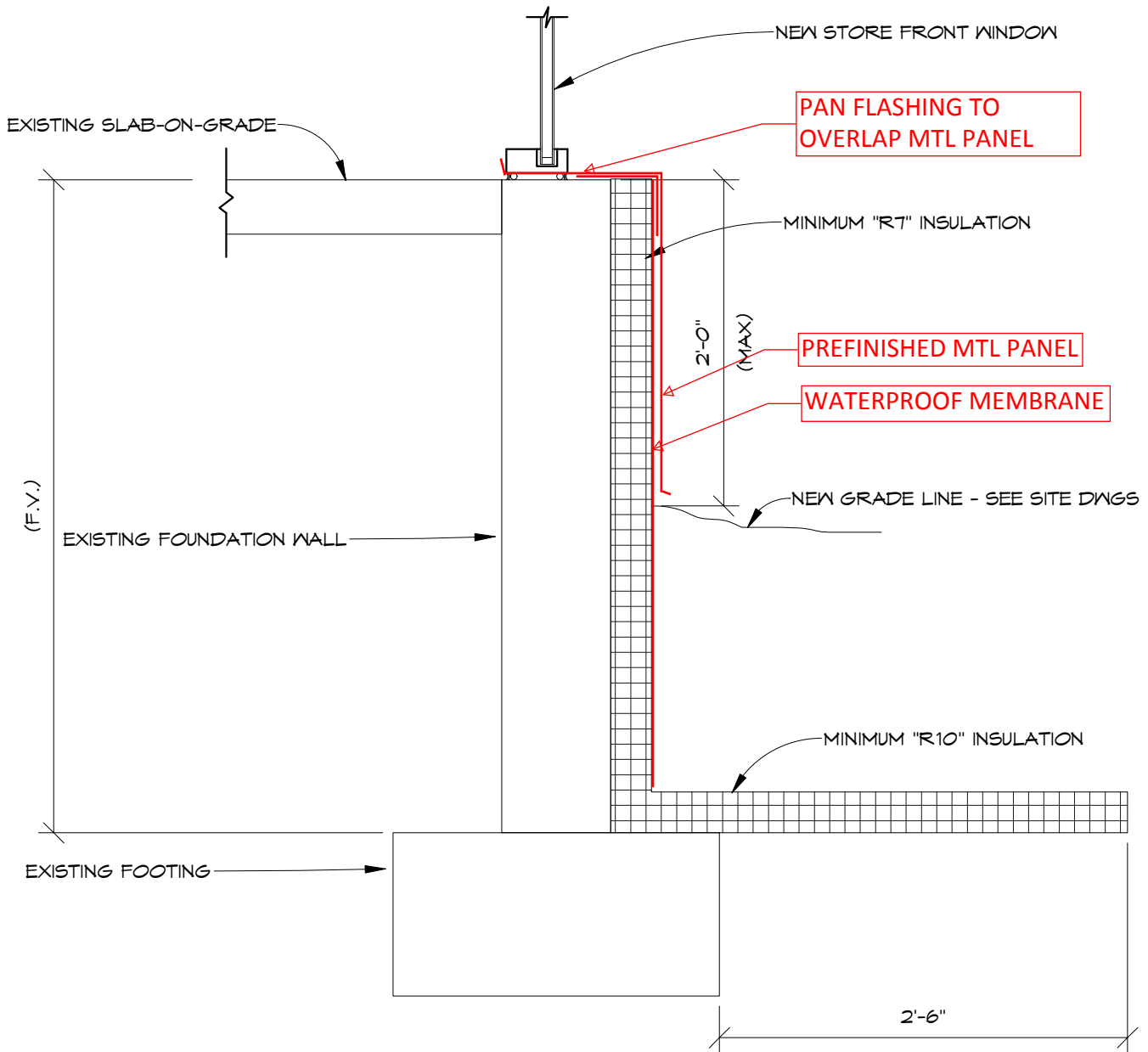
3.3 INSTALLATION

- A. Install wall panels by attaching the panels to an existing wall per the manufacturer's instructions, LA 295818, and in accordance with the authorities having jurisdiction.
- B. Attachment of panels to the wall will include the use of internal splines (included) and J molding as required for top and bottom edges.

3.4 ADJUSTING AND CLEANING

- A. Replace damaged and broken panels.
- B. Routine maintenance of Soundsoak wall panels should consist of frequent vacuuming to minimize dirt accumulation. A dry or wet shampoo can be used on Soundsoak fabric. Work in with a damp sponge and vacuum to remove residue.

END OF SECTION



FROST PROTECTION OF EXISTING WALL

1" = 1'-0"

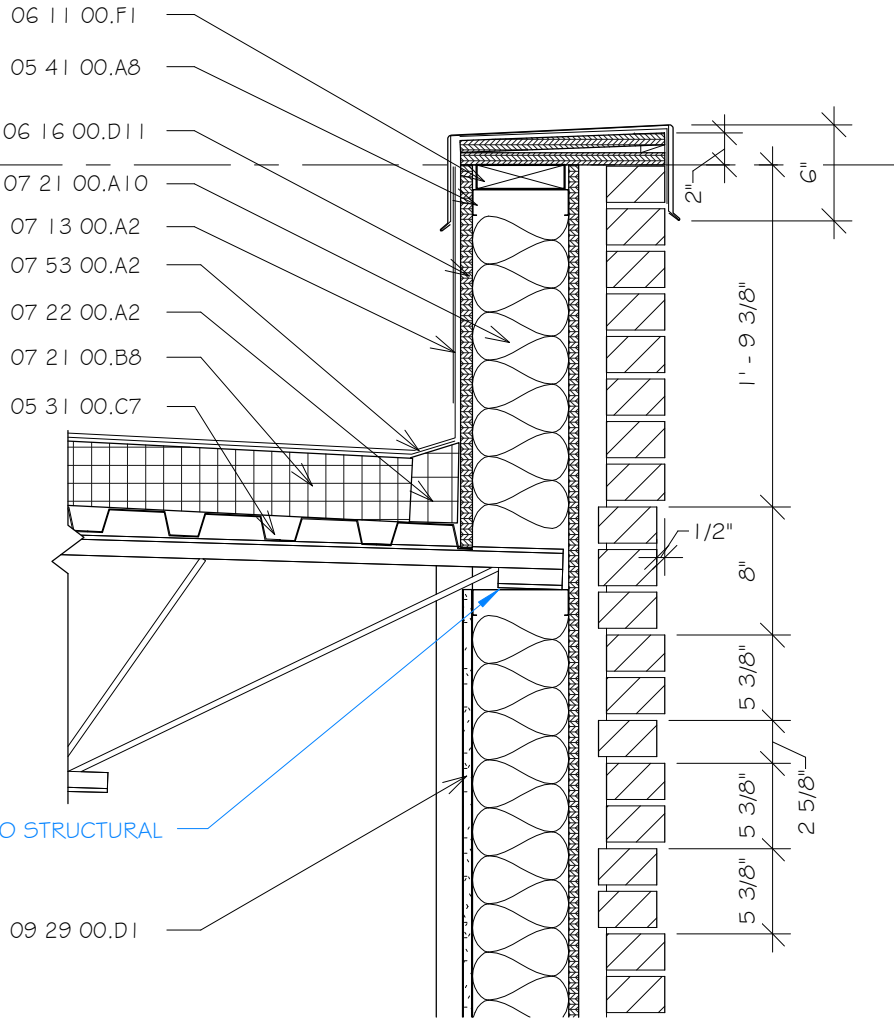
APEX
STRUCTURAL DESIGN, LLC.
515 South Cliff Ave., Ste 200
Sioux Falls, SD 57104
Phone: 605-335-4071
Fax: 605-332-2156

SUBJECT: STRUCTURAL ADDENDUM
PROJECT: AVERA ST. MICHAELS
TYNDALL, SD

DRAWN BY: JF
CHECKED BY: JP
DATE: 5/2/14

DRAWING NO:
SA-1


PARAPET
 14' - 0"



REFER TO STRUCTURAL

1 BRICK RECESS DETAIL
 1" = 1'-0"

ADDENDUM M3

ST. MICHAELS HOSPITAL
TYNDALL, SOUTH DAKOTA

DATE: May 5, 2014

Associated Consulting Engineering, Inc.
340 S. Phillips Ave.
Sioux Falls SD 57104-6910

SCOPE OF THIS ADDENDUM:

The following becomes a part of the original Drawings and Project Manual, taking precedence over those items that may conflict.

The Bidder shall note receipt and make acknowledgment of this addendum on the bid form, incorporating its provisions in their bid.

This addendum has been issued to all bidders and to all others to whom Drawings and Project Manuals have been issued by the office of the Architect/Engineer.

DRAWING ITEMS:

DRAWING SHEET M2.3 – FLOOR PLAN – PLBG & HEATING

1. Add note # 27: “VAC & OXYGEN SUBOUTS ARE PART OF THE HEAD WALL SYSTEM. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL PIPING, CONTROLS AND WIRING ASSOCIATED WITH THE SYSTEMS. COORDINATE THE OUTLET MAKE AND MODEL WITH THE OWNER & GENERAL CONTRACTOR.” to all Oxygen and Vacuum drop in the following rooms:
 - a) INFUSION 101
 - b) OUTPATIENT 102
 - c) PATIENT RM 103
 - d) PATIENT RM 104
 - e) PATIENT RM 105
 - f) PATIENT RM 106
 - g) PATIENT RM 107
 - h) PATIENT RM 108
 - i) PATIENT RM 109
 - j) PATIENT RM 110
 - k) ISOLATION 111
 - l) FAMILY SUPPORT HOSPICE 112

DRAWING SHEET M2.2 - EXISTING FLOOR PLAN-PLBG & HEATING

1. Add note #22: “ROUTE TEMPORARY OXYGEN ON THE SIDE OF BUILDING UNTIL NEW OXYGEN PIPE CAN BE CONNECTED” to note # 19.
2. Modified Note #18: “VERIFY EMERGENCY OXYGEN INLET CONNECTION AND BOX EXIST. RELOCATE TO NEW LOCATION ONCE NEW OXYGEN PIPE CAN BE CONNECTED. SEE SHEET M2.3 FOR NEW LOCATION”

SUBSTITUTIONS AND PRODUCT OPTIONS

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

SECTION	ITEM	MANUFACTURER
230800	Condensing Unit	Lennox

END OF ADDENDUM

ADDENDUM E2

ST. MICHAELS HOSPITAL
TYNDALL, SOUTH DAKOTA

DATE: May 5, 2014

Associated Consulting Engineering, Inc.
340 S. Phillips Ave.
Sioux Falls SD 57104-6910

SCOPE OF THIS ADDENDUM:

The following becomes a part of the original Drawings and Project Manual, taking precedence over those items that may conflict.

The Bidder shall note receipt and make acknowledgment of this addendum on the bid form, incorporating its provisions in their bid.

This addendum has been issued to all bidders and to all others to whom Drawings and Project Manuals have been issued by the office of the Architect/Engineer.

SPECIFICATION ITEMS:

SECTION 262310

PACKAGED ENGINE GENERATORS

1. In reference to the generator, change the size to be 75kW, 93kVA standby rating, 208-volts, 3-phase, 4-wire, 0.8PF, 60Hz, in lieu of 100kw/125kva. Provide 300A circuit breakers in lieu of 400A circuit breakers on generator.

SECTION 265730

OCPD COORDINATION STUDY

1. See attached specification study for requirements on selective coordination. Selective coordination shall be performed per NEC and DOH requirements.

DRAWING ITEMS:

DRAWING SHEET E2.0

FLOOR PLAN – ELECTRICAL

1. In reference to outlet group keynoted #6, relocate to be 20' north of northeast corner of existing building in lieu of installing where shown adjacent to ambulance garage.
2. In reference to relocation of the existing oxygen tank, provide temporary electrical connections as required to accommodate phasing of the relocation process. Coordinate specific requirements with owner during construction.

DRAWING SHEET E3.1

ELECTRICAL SCHEDULES

1. In reference to Panel EQ, provide MLO in lieu of MCB panelboard.
2. New panels shall be listed 42k AIC minimum – field verify existing conditions.

3. Due to reduced generator size, modify the following:

- a. Change Panel EDP to have 300A/3P MCB in lieu of 400A/3P MCB.
- b. Change main switchboard circuit breaker feeding automatic transfer switch to be 300A/3P in lieu of 400A/3P.
- c. Change feeder from main switchboard to automatic transfer switch and from automatic transfer switch to Panel EDP to have 300A ampacity in lieu of 400A ampacity.
- d. Change generator 400A circuit breakers to 300A in lieu of 400A and change feeder from generator to automatic transfer switch to have 300A ampacity in lieu of 400A ampacity.

SUBSTITUTIONS AND PRODUCT OPTIONS

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

SECTION	ITEM	MANUFACTURER
265110/265210	Interior/Exterior Lighting	
	Type A3	Columbia
	Type H	Prescolite
	Type L	New Star
	Type P	Original Cast
	Type Y	Hubbell

END OF ADDENDUM

SECTION 265730 - OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes computer-based, fault-current and overcurrent protective device coordination studies. Protective devices shall be set based on results of the protective device coordination study.
- B. Compliance with NFPA 70 (NEC) shall be required including, but not limited to, Articles 517 and 700 for selectively coordinating all overcurrent protection devices.**

1.2 SUBMITTALS

- A. Product Data: For computer software program to be used for studies.
- B. Product Certificates: For coordination-study and fault-current-study computer software programs, certifying compliance with IEEE 399.
- C. Qualification Data: For coordination-study specialist.
- D. Other Action Submittals: The following submittals shall be made after the approval process for system protective devices has been completed. Submittals may be in digital form.
 - 1. Coordination-study input data, including completed computer program input data sheets.
 - 2. Study and Equipment Evaluation Reports.
 - 3. Coordination-Study Report.

1.3 QUALITY ASSURANCE

- A. Studies shall use computer programs that are distributed nationally and are in wide use. Software algorithms shall comply with requirements of standards and guides specified in this Section. Manual calculations are not acceptable.
- B. Coordination-Study Specialist Qualifications: An entity experienced in the application of computer software used for studies, having performed successful studies of similar magnitude on electrical distribution systems using similar devices.
 - 1. Professional engineer, licensed in the state where Project is located, shall be responsible for the study. All elements of the study shall be performed under the direct supervision and control of engineer.
- C. Comply with IEEE 242 for short-circuit currents and coordination time intervals.
- D. Comply with IEEE 399 for general study procedures.

PART 2 - PRODUCTS

2.1 COMPUTER SOFTWARE DEVELOPERS

- A. Computer Software Developers: Subject to compliance with requirements, provide products by one of the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide a product by one of the following:
 - 1. CGI CYME.
 - 2. EDSA Micro Corporation.
 - 3. ESA Inc.
 - 4. Operation Technology, Inc.
 - 5. SKM Systems Analysis, Inc.

2.2 COMPUTER SOFTWARE PROGRAM REQUIREMENTS

- A. Comply with IEEE 399.
- B. Analytical features of fault-current-study computer software program shall include "mandatory," "very desirable," and "desirable" features as listed in IEEE 399.
- C. Computer software program shall be capable of plotting and diagramming time-current-characteristic curves as part of its output. Computer software program shall report device settings and ratings of all overcurrent protective devices and shall demonstrate selective coordination by computer-generated, time-current coordination plots.

PART 3 - EXECUTION

3.1 POWER SYSTEM DATA

- A. Gather and tabulate the following input data to support coordination study:
 - 1. Product Data for overcurrent protective devices specified in other Division 26 Sections and involved in overcurrent protective device coordination studies. Use equipment designation tags that are consistent with electrical distribution system diagrams, overcurrent protective device submittals, input and output data, and recommended device settings.
 - 2. Impedance of utility service entrance.
 - 3. Available fault current at the utility transformer secondary.
 - 4. Electrical Distribution System Diagram: In hard-copy and electronic-copy formats, showing the following:
 - a. Circuit-breaker and fuse-current ratings and types.
 - b. Relays and associated power and current transformer ratings and ratios.
 - c. Transformer kilovolt amperes, primary and secondary voltages, connection type, impedance, and X/R ratios.
 - d. Generator kilovolt amperes, size, voltage, and source impedance.
 - e. Cables: Indicate conduit material, sizes of conductors, conductor material, insulation, and length.
 - f. Busway ampacity and impedance.

- g. Motor horsepower and code letter designation according to NEMA MG 1.
5. Data sheets to supplement electrical distribution system diagram, cross-referenced with tag numbers on diagram, showing the following:
- a. Special load considerations, including starting inrush currents and frequent starting and stopping.
 - b. Transformer characteristics, including primary protective device, magnetic inrush current, and overload capability.
 - c. Motor full-load current, locked rotor current, service factor, starting time, type of start, and thermal-damage curve.
 - d. Generator thermal-damage curve.
 - e. Ratings, types, and settings of utility company's overcurrent protective devices.
 - f. Special overcurrent protective device settings or types stipulated by utility company.
 - g. Time-current-characteristic curves of devices indicated to be coordinated.
 - h. Manufacturer, frame size, interrupting rating in amperes rms symmetrical, ampere or current sensor rating, long-time adjustment range, short-time adjustment range, and instantaneous adjustment range for circuit breakers.
 - i. Manufacturer and type, ampere-tap adjustment range, time-delay adjustment range, instantaneous attachment adjustment range, and current transformer ratio for overcurrent relays.
 - j. Panelboards, switchboards, motor-control center ampacity, and interrupting rating in amperes rms symmetrical.

3.2 FAULT-CURRENT STUDY

- A. Calculate the maximum available short-circuit current in amperes rms symmetrical at circuit-breaker positions of the electrical power distribution system. The calculation shall be for a current immediately after initiation and for a three-phase bolted short circuit at each of the following:
 - 1. Switchgear and switchboard bus.
 - 2. Distribution panelboard.
 - 3. Branch circuit panelboard.
- B. Study electrical distribution system from normal and alternate power sources throughout electrical distribution system for Project. Include studies of system-switching configurations and alternate operations that could result in maximum fault conditions.
- C. Calculate momentary and interrupting duties on the basis of maximum available fault current.
- D. Calculations to verify interrupting ratings of overcurrent protective devices shall comply with IEEE 241 and IEEE 242.
 - 1. Transformers:
 - a. ANSI C57.12.22.
 - b. IEEE C57.12.00.
 - c. IEEE C57.96.
 - 2. Low-Voltage Circuit Breakers: IEEE 1015 and IEEE C37.20.1.
 - 3. Low-Voltage Fuses: IEEE C37.46.

- E. Study Report:
 - 1. Show calculated X/R ratios and equipment interrupting rating (1/2-cycle) fault currents on electrical distribution system diagram.
- F. Equipment Evaluation Report:
 - 1. For 600-V overcurrent protective devices, ensure that interrupting ratings are equal to or higher than calculated 1/2-cycle symmetrical fault current.
 - 2. For devices and equipment rated for asymmetrical fault current, apply multiplication factors listed in the standards to 1/2-cycle symmetrical fault current.
 - 3. Verify adequacy of phase conductors at maximum three-phase bolted fault currents; verify adequacy of equipment grounding conductors and grounding electrode conductors at maximum ground-fault currents. Ensure that short-circuit withstand ratings are equal to or higher than calculated 1/2-cycle symmetrical fault current.

3.3 COORDINATION STUDY

- A. Perform coordination study using approved computer software program. Prepare a written report using results of fault-current study. Comply with IEEE 399.
 - 1. Calculate the maximum and minimum 1/2-cycle short-circuit currents.
 - 2. Calculate the maximum and minimum ground-fault currents.
- B. Comply with IEEE 241 and IEEE 242 recommendations for fault currents and time intervals.
- C. Transformer Primary Overcurrent Protective Devices:
 - 1. Device shall not operate in response to the following:
 - a. Inrush current when first energized.
 - b. Self-cooled, full-load current or forced-air-cooled, full-load current, whichever is specified for that transformer.
 - c. Permissible transformer overloads according to IEEE C57.96 if required by unusual loading or emergency conditions.
 - 2. Device settings shall protect transformers according to IEEE C57.12.00, for fault currents.
- D. Conductor Protection: Protect cables against damage from fault currents according to ICEA P-32-382, ICEA P-45-482, and conductor melting curves in IEEE 242. Demonstrate that equipment withstands the maximum short-circuit current for a time equivalent to the tripping time of the primary relay protection or total clearing time of the fuse. To determine temperatures that damage insulation, use curves from cable manufacturers or from listed standards indicating conductor size and short-circuit current.
- E. Coordination-Study Report: Prepare a written report indicating the following results of coordination study:
 - 1. Tabular Format of Settings Selected for Overcurrent Protective Devices:
 - a. Device tag.
 - b. Relay-current transformer ratios; and tap, time-dial, and instantaneous-pickup values.
 - c. Circuit-breaker sensor rating; and long-time, short-time, and instantaneous settings.

- d. Fuse-current rating and type.
 - e. Ground-fault relay-pickup and time-delay settings.
2. Coordination Curves: Prepared to determine settings of overcurrent protective devices to achieve selective coordination. Graphically illustrate that adequate time separation exists between devices installed in series, including power utility company's upstream devices. Prepare separate sets of curves for the switching schemes and for emergency periods where the power source is local generation. Show the following information:
- a. Device tag.
 - b. Voltage and current ratio for curves.
 - c. Three-phase and single-phase damage points for each transformer.
 - d. No damage, melting, and clearing curves for fuses.
 - e. Cable damage curves.
 - f. Transformer inrush points.
 - g. Maximum fault-current cutoff point.
- F. Completed data sheets for setting of overcurrent protective devices.

END OF SECTION 265730