



1 Angelica Street, St. Louis, MO 63147

Belt 3 Loadout Modifications

St Louis Missouri

EQUIPMENT AND STRUCTURES

Prepared For:

Oakley St. Louis, LLC.

Prepared By:

VAA, LLC

VAA Project No. 260874

July 30th, 2026

DOCUMENT 00 01 11

TABLE OF CONTENTS

Section Title

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

INTRODUCTORY INFORMATION

00 01 10 Table of Contents

PROCUREMENT REQUIREMENTS

00 11 16 Invitation to Bid

00 21 13 Instructions to Bidders

00 91 13 Addendum(s)

DIVISION 01 - GENERAL REQUIREMENTS

01 10 00 Summary

01 20 00 Price and Payment Procedures

01 30 00 Administrative Requirements

01 33 00 Submittal Procedures

01 40 00 Quality Requirements

01 50 00 Temporary Facilities and Controls

01 70 00 Execution and Closeout Requirements

APPENDIX FILES:

APPENDIX A - BID FORM

APPENDIX B - DRAWINGS

APPENDIX C – INSURANCE EXAMPLE

APPENDIX D – CHANGE ORDER FORM

END OF SECTION

DOCUMENT 00 11 16

INVITATION TO BID

Date: 07/30/2026

Project: Belt 3 Rail Loadout Modifications

Owner: Oakley St. Louis, LLC.
1 Angelica Street
St. Louis, MO 63147

Engineer: VAA, LLC.
301 Carlson Prkwy, Suite 500
Minnetonka, MN 55305

Original Project Contract Documents dated July 30th, 2026, which include the Instruction to Bidders, Drawings, Summary of Work and other related Project Documents for the subject project as prepared by VAA, LLC on behalf of Bruce Oakley.

You are hereby invited to review the documents and submit Lump Sum Pricing to the Owner for the construction of a facility expansion located at the above address. The Owner will receive Bids until 4:00 PM local standard time on the **August 27th at the offices of: Bruce Oakley St. Louis.**

ATTN: Clay Mothershead

Bruce Oakley

1 Angelica Street, St. Louis MO 63147

clay.mothershead@bruceoakley.com

Bids will not be accepted before Monday Aug 7th 2026. Submit your Bid on the Bid Form provided.

Your Bid will be required to be submitted under a condition of irrevocability for a period of 30 days after submission.

The Owner reserves the right to accept or reject any or all Bids.

BID OPENING:

Bid Opening will be Friday, August 28th @ 1PM

END OF DOCUMENT

DOCUMENT 00 21 13

INSTRUCTIONS TO BIDDERS

1.1 SUMMARY

A. Document Includes:

1. Bid submission.
2. Intent.
3. Work identified in contract documents.
4. Contract Time.
5. Definitions.
6. Examination of documents.
7. Inquiries and Addenda.
8. Bidder qualifications.
9. Subcontractors.
10. Submission procedure.
11. Bid ineligibility.
12. Performance Assurance.
13. Insurance.
14. Bid Form requirements.
15. Selection and award of alternates.
16. Bid opening.
17. Duration of offer.
18. Acceptance of offer.

B. Related Documents:

1. Document 00 11 16 - Invitation to Bid.

1.2 BID SUBMISSION

- A. Bids submitted after the bid due time may be returned to Bidder unopened.
- B. Amendments to submitted Bids will be permitted when received in writing prior to bid closing and when endorsed by the same party or parties who signed the Bid.
- C. Bidders may withdraw their Bid by written request at any time before bid closing.
- D. Bidders shall include the following with the bid submission:
 - 1. Pricing and scope documents
 - 2. Bid Form
 - 3. Preliminary schedule
 - 4. Bidders shall include a pre-award meeting with owner in their bids to review scope prior to awards.
- E. Bidders must comply with qualifications per section 2.3 listed below.

1.3 INTENT

- A. The intent of this Bid request is to obtain Lump Sum pricing to perform work to complete the Belt 3 Rail Loadout Modifications in St. Louis, MO.

1.4 WORK IDENTIFIED IN CONTRACT DOCUMENTS

- A. Work of this proposed Contract follows an Bid/Build philosophy general construction, including structural and mechanical work.

1.5 CONTRACT TIME

- A. Project to be awarded during the last week in August.

1.6 DEFINITIONS

- A. Bidding Documents: Contract Documents supplemented with Invitation to Bid, Instructions to Bidders, and Bid Form.

- B. Bid: Executed Bid Form and required attachments submitted in accordance with these Instructions to Bidders.
- C. Bid Price: Monetary sum identified by the Bidder in the Bid Form. Appendix A

PART 2 -

2.1 EXAMINATION OF DOCUMENTS

- A. Upon receipt of Bidding Documents verify documents are complete. Notify Bruce Oakley if documents are incomplete.
- B. Immediately notify Bruce Oakley upon finding discrepancies or omissions in Bidding Documents.
- C. Evaluation and Award
 - 1. Bids will be publicly opened and evaluated following the established MoDOT bid opening procedures. Apparent bid results will be made available following bid opening, and final corrected bid results will be published by MoDOT.
 - 2. Award criteria are to the lowest responsive and responsible bidder, or as otherwise permitted by applicable law and procurement requirements. Bruce Oakley reserves the right to reject any or all bids and to waive minor informalities when deemed to be in the best interest of the project.

2.2 INQUIRIES AND ADDENDA

- A. Direct questions via email to Clay Mothershead of Bruce Oakley
- B. Verbal answers are not binding on any party.
- C. Submit questions not less than 7 days before the date set for receipt of Bids. Replies will be made by Addenda.

2.3 BIDDER QUALIFICATIONS

- A. Bidder Eligibility and Prequalification
 - 1. To be eligible to submit a bid as a Prime Contractor, the Bidder shall be prequalified with the Missouri Department of Transportation (MoDOT). The Bidder must have an approved Prequalification Contractor Questionnaire and all required supporting documentation on file

with MoDOT no later than seven (7) calendar days prior to the bid opening date. Failure to maintain the required prequalification status may result in the bid being deemed non-responsive.

2. The Contractor shall maintain a minimum workforce of forty-five (45) employees, with the capacity to assign up to twenty-five (25) personnel to on-site construction activities and shall possess a minimum of fifteen (15) years of experience providing millwright and fabrication services. Contractor is preferred to have fifty (50) or more years of demonstrated experience serving the fertilizer, grain, or related bulk material handling industries.
3. Access to multiple cranes is an important consideration for this project due to the complexity of the installation sequence and the need to minimize impacts to ongoing operations. Certain phases of construction may require Conveyor #3 to be temporarily held, supported, or suspended while structural steel, equipment, platforms, stair systems, and other components are erected beneath or adjacent to the conveyor. The availability of multiple cranes would allow these activities to be performed in a coordinated manner, reducing the duration of conveyor outages and improving overall construction efficiency.
4. In addition, the use of multiple cranes may be necessary to safely execute critical lifts, maintain adequate clearances, and provide flexibility when working within the constrained project footprint. Contractors should evaluate their construction approach and determine whether supplementary lifting equipment will be required to maintain schedule commitments, accommodate steel erection sequencing, and reduce operational disruptions. Any crane requirements, anticipated conveyor downtime, and proposed lift sequencing should be identified as part of the bidder's construction plan and schedule submission.
5. The Owner shall require bidders demonstrating substantial in-house fabrication capabilities. Contractors should provide information regarding fabrication facilities, available production capacity, quality control procedures, key personnel, and examples of similar industrial projects completed using internal fabrication resources. Demonstrated ability to control fabrication schedules, coordinate delivery with construction activities, and minimize project execution risk may be considered during the evaluation process.

B. Subcontractor Requirements

1. Section B contains guidelines intended to support compliance with FRE funding requirements. These guidelines are provided for informational purposes only and should not be interpreted as prescriptive requirements imposed on the bidder. Bidders are encouraged to carefully review and evaluate the applicability of these guidelines to their specific proposal. Because FRE funding requirements may vary depending on project circumstances and funding conditions, bidders should defer to MoDOT for definitive guidance and determination of any applicable requirements within each of the categories listed below.

2. Prime Contractors may utilize subcontractors to perform portions of the Work. The successful Prime Contractor shall identify all proposed subcontractors in accordance with MoDOT requirements. All subcontractors are subject to MoDOT review and approval procedures in accordance with the Engineering Policy Guide (EPG) Section 108, Prosecution and Progress.
 3. While MoDOT does not maintain a contractual relationship with subcontractors, only subcontractors approved by MoDOT may perform work on Commission contracts. Contractors are encouraged to utilize firms listed on MoDOT's approved subcontractor listing; however, approval of proposed subcontractors remains subject to MoDOT review.
 4. Prevailing Wage Requirements
 - a. The Contractor shall comply with all applicable federal and state prevailing wage requirements. The wage rates applicable to this solicitation are incorporated by reference and are available through MoDOT's Wage Rate Information resources. Contractors shall ensure that all subcontractors also comply with applicable wage rate requirements. Wage Determination WD# = **MO20260001** See SAM.Gov for full wage listing. St. Louis City is the county determination origin for this project.
 5. Compliance With Missouri Law
 - a. Prior to contract award, the successful Bidder must be authorized and legally eligible to conduct business in the State of Missouri and comply with all applicable federal, state, and local laws, regulations, and licensing requirements.
 - b. The successful Contractor will receive an Award/Notice to Proceed upon approval by the Missouri Highways and Transportation Commission and issuance of the contract agreement documents.
 6. Disadvantaged Business Enterprise (DBE) and Equal Opportunity Requirements
 - a. Contractors are encouraged to utilize qualified Disadvantaged Business Enterprise (DBE), Minority-Owned Business Enterprise (MBE), and Women-Owned Business Enterprise (WBE) firms where applicable. Information regarding certified firms is available through the Missouri Regional Certification Committee (MRCC) Directory and the Missouri Office of Equal Opportunity.
 - b. The Contractor shall comply with all applicable nondiscrimination, equal opportunity, and workforce diversity requirements associated with this solicitation and resulting contract.
- C. E-Verify Requirements
1. The Contractor and all subcontractors shall be enrolled in and actively participate in the Federal E-Verify employment eligibility verification program as required by Missouri law.

2. Prior to contract award, the successful Bidder shall provide a completed and notarized Affidavit of Work Authorization and documentation demonstrating participation in the E-Verify program.
3. The Contractor shall require all subcontractors performing Work on the Project to comply with these requirements.
4. Failure to maintain compliance with E-Verify requirements may be grounds for bid rejection, contract termination, or other remedies available to the Owner.

2.4 SUBCONTRACTORS

- A. The Owner reserves the right to reject a proposed Subcontractor for reasonable cause.

2.5 SUBMISSION PROCEDURE

- A. Bidders shall be solely responsible for delivery of Bids in manner and time prescribed.
- B. E-mailed bids are not acceptable. Bids must be sealed and delivered to Clay Mothershead via USPS, or other reputable carriers. Bids will not be opened until the time stated in section 1.2 Bid Submission. See 00 11 16 Invitation to Bid for details and address.

2.6 BID INELIGIBILITY

- A. Bids that are unsigned, improperly signed or sealed, conditional, illegible, obscure, contain arithmetical errors, erasures, alterations, or irregularities of any kind, may be declared unacceptable at Owner's discretion.
- B. Bid Forms, Appendices, and enclosures which are improperly prepared may be declared unacceptable at Owner's discretion.
- C. Bids are open to all qualified bidders, including individuals and entities from the general public, and active participation from minority-owned businesses is strongly encouraged.

2.7 PERFORMANCE ASSURANCE

- A. Bid Guaranty
 1. Bid bonds are not required for this project but are recommended.

2.8 INSURANCE

- A. Provide an executed "Undertaking of Insurance" on a standard form provided by the insurance company stating their intention to provide insurance to the Bidder in accordance with the insurance requirements of the Bid Package Documents.

2.9 BID FORM REQUIREMENTS

- A. Bidders shall provide suppliers, quantities, equipment information, subcontractors, and breakout pricing as shown on the attached Bid Evaluation Form.

2.10 SELECTION AND AWARD OF ALTERNATES

- A. Indicate variation of Bid Sum for alternates as needed. This indicates a "difference" in Bid Sum by adding to or deducting from base Bid Sum.
- B. Bids will be evaluated on total of base Bid Sum with full consideration of alternates.

2.11 BID OPENING

- A. Bids will be opened publicly after time for receipt of Bids.
- B. Bid Opening will be **Friday August 28th @ 1PM**
 - 1. Virtual meeting invite will be sent under a separate addenda.

2.12 DURATION OF OFFER

- A. Bids shall remain open to acceptance for a period of 120 days after the bid's closing date.

2.13 ACCEPTANCE OF OFFER

- A. The Owner reserves the right to accept or reject any or all offers.
- B. The accepted bidder shall assist and cooperate with the Owner to prepare the Agreement, and following its presentation shall execute Agreement and return it to the Owner.

END OF DOCUMENT

SECTION 01 10 02

SUMMARY OF WORK – PACKAGE 2

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Project Scope

1. The overall scope of the Project is to install the equipment and structural components required for the Belt 3 Rail Loadout Modifications. The Work includes, but is not limited to, procurement, construction, and construction management associated with demolition, material handling equipment, spouting, and other incidental or ancillary work necessary to complete the Project.
2. The Work shall be performed as described in this Summary of Work, as indicated in the General Arrangement Drawings, and as otherwise reasonably inferable from the Bid Package documents.

B. Bid Package Intent

1. The Bid Package documents, including this Summary of Work, the General Arrangement Drawings, are conceptual and general in nature. The Bidder is responsible for determining actual equipment horsepower requirements necessary to meet the system and plant capacity requirements identified in the Summary of Work.
2. The Contractor shall verify all existing conditions, equipment layouts, flow diagrams, and general arrangement drawings before performing the Work. The Contractor shall perform all Work identified in the Bid Package unless specifically indicated otherwise.

C. Contractor Responsibilities

1. The Contractor shall provide all labor, materials, tools, equipment, freight, storage, fasteners, brackets, supports, and miscellaneous components required for the erection and complete installation of all equipment.
2. The Contractor shall also provide the information necessary to assist the Owner in applying for building, air, environmental, and operating permits, as required by applicable laws, regulations, and ordinances. The Contractor shall comply with all applicable codes.

D. Scope Interpretation

1. This Summary of Work provides a general description of the Project scope and related requirements. Failure to list an item in the Summary of Work does not relieve the Contractor of responsibility for performing all Work shown on the Bid Package Drawings or otherwise required as part of the Project scope.
 - E. The Contractor shall be responsible for all mobilization, demobilization, and temporary facilities as required.
 - F. The Contractor shall be responsible for all dewatering during the construction process.
 - G. The Contractor shall be responsible for providing site security during the construction period.
 - H. The Contractor shall be responsible for all Pre-Commissioning and Commissioning activities. The Owner shall provide personnel and assistance during the Pre-Commissioning and Commissioning activities. The Contractor shall coordinate commissioning efforts with the Owner.
 - I. The Contractor shall be responsible for all Final Documentation and submittals.
- 1.2 WORK PROVIDED BY THE OWNER UNDER SEPARATE CONTRACTS:
- A. Third party testing services.
 - B. Spare parts.
- 1.3 PROJECT DESCRIPTION
- A. Demolition and Modifications:
 1. Modify the existing 800 TPH belt conveyor to operate on a new inclined alignment feeding the conditioning system.
 2. Modify the existing conveyor discharge transition and provide a new connection to the gathering hopper.
 3. Remove and replace existing access stairs as required for the new platforms and support structure.
 4. Relocate or modify existing dust collection ductwork, conduit, and UAN piping that conflicts with the new work.
 5. Modify the existing conveyor bridge and supporting connections as required.
 - B. Foundations:

1. Install steel bearing piles for support of the new loadout tower structure.
2. Construct reinforced concrete pile caps and foundation pilasters.
3. Furnish and install anchor rods, reinforcing steel, grout, embeds, and associated foundation components.

C. Structural Steel:

1. Fabricate and erect a new structural steel support tower for the conveyor bridge and conditioning equipment.
2. Install columns, girders, beams, bracing, channels, and HSS members.
3. Provide all structural steel connections, gusset plates, stiffeners, base plates, and miscellaneous framing.
4. Furnish structural support framing for equipment, access platforms, conveyors, valves, and hopper systems.

D. Platforms and Access Systems:

1. Construct new elevated access platforms at the conditioner level, valve level, and conveyor head level.
2. Install galvanized bar grating flooring and support framing.
3. Install checkered steel plate flooring where indicated.
4. Provide self-closing safety gates and access openings as required.

E. Stairs, Handrails, and Guardrails:

1. Furnish and install new steel stair systems connecting grade, valve platform, conditioner platform, conveyor head platform, and existing structures.
2. Provide stair landings, treads, stringers, and connections.
3. Install guardrails, handrails, toe plates, and safety gates at all elevated work areas.

F. Hopper System:

1. Install a gathering hopper with approximately 425 cubic feet of storage capacity above the conditioners.
2. Provide all steel support framing associated with the hopper system.

G. Process Equipment Support:

1. Provide structural support and installation interfaces for:

- a. Dual conditioner units (800 TPH total capacity).
 - b. Two-way diverter valve.
 - c. Hydraulic slide gate.
 - d. Loadout spout.
 2. Install equipment support steel, access platforms, and maintenance access features.
- H. Conveyor and Material Handling Systems:
1. Integrate the modified conveyor with the new gathering hopper and conditioning equipment.
 2. Construct discharge transitions and connection points between conveyor and hopper.
 3. Support the complete conditioned material flow path from conveyor discharge through conditioning and rail loadout.
- I. Mechanical Work:
1. Reconfigure existing dust collection ducting to accommodate the new conveyor discharge location.
 2. Modify and reconnect existing UAN piping as required.
 3. Coordinate all process equipment interfaces and field connections.
- J. Electrical Requirements:
1. Relocate existing conduit and electrical components that interfere with new construction.
 2. Modify electrical routing as required to support the conveyor and equipment changes.
 3. Coordinate power and controls connections for owner-furnished equipment.
 4. The Contractor shall coordinate with the Owner's electrical subcontractor.
- K. General Requirements:
1. Perform field verification of existing conditions prior to fabrication and construction.
 2. Provide shop drawings, erection drawings, and fabrication details.
 3. Coordinate all work with ongoing rail loadout operations.
 4. Maintain required railroad clearances and safe access throughout construction.
 5. Coordinate installation requirements with equipment manufacturers and the Owner.

1.4 THE CONTRACTOR DUTIES

- A. Provide, construct and install all items in accordance with industry standards.
- B. Except as noted, provide and include in the bid the cost associated with:
 - 1. Labor, materials, and equipment to complete the work.
 - 2. Shop fabrication drawings for all structural steel and miscellaneous steel.
 - 3. Other services and/or facilities needed to complete the work.
- C. Pay legally required sales and consumer taxes and/or duties. All invoices shall clearly state if sales tax has/has not been included.
- D. Builders Risk Insurance shall be provided by the Owner.
- E. Provide and maintain warranties and equipment and materials for one (1) year after Substantial Completion.
- F. Comply with all laws or ordinances, rules and regulations applicable to the work.
- G. Provide security for all materials stored on the site.
- H. Attend and participate in daily and weekly job progress meetings with Owner.
- I. The Contractor shall be responsible for start-up and commissioning of all equipment per prescribed procedures under Owner's supervision. Owner will not accept project until all equipment is proven to operate to the satisfaction of Owner. **Owner will provide all oil and grease to be installed by The Contractor prior to start-up.** The Contractor shall provide Owner with three (3) copies of operator/maintenance manuals for all equipment provided and installed by The Contractor. The Contractor start-up responsibilities include (but are not limited to):
 - 1. Alignment of all gear drives.
 - 2. Greasing of all bearings.
 - 3. Verification of correct oil levels in all gear drives
- J. The Contractor shall be responsible for safe unloading/storage of all equipment and materials including documentation of receipt in full and condition (identify all damaged items) prior to unloading and installation. The Contractor shall provide touch-up paint and painting of all items supplied with finish coatings that need touch-up upon completion of installation.

- K. Provide lift plans in accordance with Owner requirements and allow adequate time for Owner review prior to setting up cranes.
- L. The Contractor is required to obtain all required easements for use during construction.

1.5 WORK SEQUENCE AND COMPLETION DATE

- A. The Contractor shall provide a preliminary construction schedule for the project indicating project mobilization, project substantial completion, milestone dates and demobilization dates. Long Lead items should be clearly noted along with RISK of delay probability.
- B. The Contractor shall indicate to the Owner all shutdown dates as well as durations to be reviewed by the Owner prior to the award of the contract.
- C. The Contractor shall indicate to the Owner all milestone delivery dates of all items provided by the Owner on the schedule.
- D. The Contractor shall coordinate Their/her work with all other work performed by others.
- E. Preliminary milestone dates:
 - 1. The project is tentatively scheduled to be rewarded in the second week of September.

1.6 SITE VISITS PRIOR TO BIDDING

- A. Site visit is required
- B. All bidders will be invited to a pre-bid meeting 5 days after the package is released. Questions on pre-bid meetings should be directed to Clay Mothershead with Bruce Oakley.
 - 1. Clay Mothershead, clay.mothershead@bruceoakley.com, 314-236-4145

1.7 TEMPORARY ELECTRICAL SERVICE USED FOR CONSTRUCTION

- A. Owner will pay for the cost of electrical power used by the Contractor.
- B. Owner will be responsible for bringing temporary electrical power to work area at a location designated by The Contractor. The Contractor shall provide the temporary panel and electrical requirements for construction after the panel.

- C. All temporary wiring and equipment shall comply with the requirements of the latest edition of the National Electrical Code. All wiring and equipment used in hazardous locations shall comply with the specific requirements of the NEC for that classification. All GFCI requirements shall be met.

1.8 PERMITS AND INSPECTIONS

- A. Owner is responsible for obtaining Federal, State, and/or Local Pollution Control Agency air quality permits (if required). If required, Owner shall also apply and pay for required Building Permit(s).
- B. Owner is responsible for sourcing and contracting a qualified third-party inspection service. The owner will direct the timing and type of inspection needed based on the design criteria. Their ensures bias is removed from inspection that might favor of the design build contractor.
- C. The Contractor is required to perform all testing and inspections required by the Project scope of work and/or requirements of the Building Permit(s). The Contractor shall furnish proof of testing/inspections to Owner prior to completing both tested and inspected work.

1.9 TEMPORARY FACILITIES

- A. The Contractor shall provide their own temporary office, storage, telephone and employee welfare facilities including those required for subcontractors working for The Contractor.
- B. The site location of all The Contractor facilities and material/equipment laydown areas shall be coordinated with and approved by the Owner.

1.10 SAFETY

- A. All work shall be completed in a safe manner. If The Contractor, Their employees, or subcontractors are engaged in unsafe practices or practices considered unsafe by the Owner, at the direction of the Owner, the Contractor shall immediately desist those actions.
- B. OSHA 10 Cards are required at a minimum.
- C. Permission to cut, weld or burn shall be obtained in the form of a written permit from the Owner.
- D. The Contractor must have a formal safety program and submit their safety program as a part of their bid.

- E. The Contractor to provide site safety supervisor or a third-party safety supervisor during all areas of construction.
- F. Provide insurance limits per Appendix C.
- G. The Contractor shall perform weekly walk-through safety and construction inspections and review the documented findings with Owner's Project Manager and/or other Owner designee the same day.
- H. Prior to starting work, all Contract obligations that need to be completed by The Contractor shall be returned to Owner.

1.11 CLEANING:

- A. Maintain premises and public properties free from accumulations of waste, debris and rubbish caused by operations.
- B. Conduct cleaning and disposal operations to comply with local ordinances and antipollution laws.
- C. At completion of work, remove waste materials, rubbish, tools, equipment, machinery, and surplus materials, and clean all sight-exposed surfaces.
- D. Prior to leaving the site, Owner's Project Manager and Contractor's representative shall inspect the premises. Final payment will not be made until Owner is satisfied the site is clean and the work satisfactorily completed.

1.12 CHARGES FOR EXTRA WORK:

- A. Any charges for extra work or changes in scope shall be approved in writing by the Owner's Project Manager prior to the work being done.

END OF SECTION

SECTION 01 20 00

PRICE AND PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Schedule of values.
- B. Applications for payment.
- C. Change procedures.
- D. Defect assessment.
- E. Alternates.

1.2 SCHEDULE OF VALUES

- A. Submit Schedule of Values in duplicate within 15 days after date of Owner-Contractor Agreement.
- B. Include within each line item, direct proportional amount of Contractor's overhead and profit.
- C. Revise schedule to list approved Change Orders, with each Application For Payment.

1.3 APPLICATIONS FOR PAYMENT

- A. Submit three copies of each Application for Payment.
- B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.
- C. Submit updated construction schedule with each Application for Payment.
- D. Payment Period: Submit at intervals stipulated in the Agreement
- E. Submit with transmittal letter.
- F. Submit Lien waivers.

- G. Substantiating Data: When Owner requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:
1. Current construction photographs.
 2. Partial release of liens from major subcontractors and vendors.
 3. Record documents as specified, for review by Owner which will be returned to Contractor.
 4. Affidavits attesting to off-site stored products.
 5. Construction progress schedules, revised and current as specified.

1.4 CHANGE PROCEDURES

- A. Submittals: Submit name of individual authorized to receive change documents, and be responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
- B. The Owner may issue a Notice of Change including a detailed description of proposed change with supplementary or revised Drawings and specifications, a change in Contract Time for executing the change. Contractor will prepare and submit estimate within 5 days.
- C. Contractor may propose changes by submitting a request for change to Owner, describing proposed change and its full effect on the Work. Include a statement describing reason for the change, and effect on Contract Sum/Price and Contract Time with full documentation and a statement describing effect on Work by separate or other Contractors.
- D. Stipulated Sum/Price Change Order: Based on Notice of Change and Contractor's fixed price quotation.
- E. Time and Material Change Order: Submit itemized account and supporting data after completion of change, within time limits indicated in Conditions of the Contract. The Owner will determine change allowable in Contract Sum/Price and Contract Time as provided in Contract Documents.
- F. Maintain detailed records of work done on Time and Material basis. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.
- G. Document each quotation for change in cost or time with sufficient data to allow evaluation of quotation.
- H. Change Order Forms: See Appendix D.

- I. Execution of Change Orders: Owner will issue Change Orders for signatures of parties as provided in Conditions of the Contract.
- J. Correlation Of Contractor Submittals:
 - 1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
 - 2. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.
 - 3. Promptly enter changes in Project Record Documents.

1.5 DEFECT ASSESSMENT

- A. Replace the Work, or portions of the Work, not conforming to specified requirements.
- B. If, in the opinion of the Owner, it is not practical to remove and replace the Work, the Owner will direct appropriate remedy or adjust payment.
- C. The defective Work may remain, but unit sum/price will be adjusted to new sum/price discretion of Owner.
- D. Defective Work will be partially repaired to instructions of Owner, and unit sum/price will be adjusted to new sum/price at discretion of Owner.
- E. Individual specification sections may modify these options or may identify specific formula or percentage sum/price reduction.
- F. Authority of Owner to assess defects and identify payment adjustments, is final.
- G. Non-Payment For Rejected Products: Payment will not be made for rejected products for any of the following:
 - 1. Products wasted or disposed of in a manner that is not acceptable.
 - 2. Products determined as unacceptable before or after placement.
 - 3. Products not completely unloaded from transporting vehicle.
 - 4. Products placed beyond lines and levels of required Work.
 - 5. Products remaining on hand after completion of the Work.
 - 6. Loading, hauling, and disposing of rejected products.

1.6 ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION

SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Coordination and project conditions.
- B. Field engineering.
- C. Site mobilization meeting.
- D. Progress meetings.

1.2 COORDINATION AND PROJECT CONDITIONS

- A. Coordinate scheduling, submittals, and Work of various sections of Project to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, operating equipment.
- C. Coordinate space requirements, supports, and installation of mechanical and electrical Work indicated. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- D. In finished areas conceal pipes, ducts, and wiring within construction. Coordinate locations of fixtures and outlets with finish elements.
- E. Coordinate completion and clean-up of Work of separate sections in preparation for Substantial Completion and for portions of Work designated for Owner's occupancy.
- F. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

1.3 FIELD ENGINEERING

- A. Employ Land Surveyor registered in State of Missouri and acceptable to Owner.
- B. Locate and protect survey control and reference points. Promptly notify Owner of discrepancies discovered.
- C. Control datum for survey is that established by Owner provided survey. Verify set-backs and easements; confirm drawing dimensions and elevations.
- D. Provide field engineering services. Establish elevations, lines, and levels, utilizing recognized engineering survey practices.
- E. Submit copy of site drawing and certificate signed by Land Surveyor certifying elevations and locations of the Work are in conformance with Contract Documents.
- F. Maintain complete and accurate log of control and survey work as Work progresses.
- G. Protect survey control points prior to starting site work; preserve permanent reference points during construction.
- H. Promptly report to Owner loss or destruction of reference point or relocation required because of changes in grades or other reasons.
- I. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Owner.

1.4 SITE MOBILIZATION MEETING

- A. Owner will schedule meeting at Project site prior to Contractor occupancy.
- B. Attendance Required: Owner, Contractor, Contractor's Superintendent, and major Subcontractors.
- C. Agenda:
 - 1. Use of premises by Owner and Contractor.
 - 2. Owner's requirements.
 - 3. Construction facilities and controls provided by Owner.
 - 4. Temporary utilities provided by Owner.
 - 5. Survey and layout.

6. Security and housekeeping procedures.
 7. Schedules.
 8. Application for payment procedures.
 9. Procedures for testing.
 10. Procedures for maintaining record documents.
 11. Requirements for start-up of equipment.
 12. Inspection and acceptance of equipment put into service during construction period.
- D. Record minutes and distribute copies within two days after meeting to participants, with copies to Contractor, Owner, and those affected by decisions made.

1.5 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work. Intervals to be determined.
- B. Contractor will make arrangements for meetings, prepare agenda with copies for participants, and preside at meetings.
- C. Attendance Required: Job superintendent, major subcontractors and suppliers, Owner, Contractor, as appropriate to agenda topics for each meeting.
- D. Record minutes and distribute copies within two days after meeting to participants, with copies to Contractor, Owner, and those affected by decisions made.

PART 2 - PRODUCTS - Not Used

PART 3 - Not Used

END OF SECTION

SECTION 01 33 00
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Submittal procedures.
- B. Construction progress schedules.
- C. Proposed products list.
- D. Product data.
- E. Shop drawings.
- F. Samples.
- G. Design data.
- H. Test reports.
- I. Certificates.
- J. Manufacturer's instructions.
- K. Manufacturer's field reports.
- L. Erection drawings.
- M. Construction photographs.

1.2 SUBMITTAL PROCEDURES

- A. Sequentially number transmittal forms. Mark revised submittals with original number and sequential alphabetic suffix.
- B. Identify Project, Contractor, subcontractor and supplier, pertinent drawing and detail number, and specification section number, appropriate to submittal.

- C. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.
- D. Schedule submittals to expedite Project and deliver to Owner. Coordinate submission of related items.
- E. For each submittal for review, allow 15 days excluding delivery time to and from Contractor.
- F. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.
- G. Allow space on submittals for Contractor and Owner review stamps.
- H. When revised for resubmission, identify changes made since previous submission.
- I. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.
- J. Submittals not requested will not be recognized or processed.

1.3 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit initial schedules within 15 days after date of Owner-Contractor Agreement. After review, resubmit required revised data within 10 days.
- B. Submit revised Progress Schedules with each Application for Payment.
- C. Distribute copies of reviewed schedules to Project site file, subcontractors, suppliers, and other concerned parties.
- D. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.
- E. Submit computer generated horizontal bar chart with separate line for each major portion of Work or operation, identifying first work day of each week.
- F. Show complete sequence of construction by activity, identifying Work of separate stages and other logically grouped activities. Indicate early and late start, early and late finish, float dates, and duration.
- G. Indicate estimated percentage of completion for each item of Work at each submission.

- H. Submit separate schedule of submittal dates for shop drawings, product data, and samples, including Owner furnished products and dates reviewed submittals will be required from Owner. Indicate decision dates for selection of finishes.
- I. Indicate delivery dates for Owner furnished products Revisions To Schedules:
 - 1. Indicate progress of each activity to date of submittal, and projected completion date of each activity.
 - 2. Identify activities modified since previous submittal, major changes in scope, and other identifiable changes.
 - 3. Prepare narrative report to define problem areas, anticipated delays, and impact on Schedule. Report corrective action taken, or proposed, and its effect (including effect of changes on schedules of separate contractors).

1.4 PROPOSED PRODUCTS LIST

- A. Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
- B. For products specified only by reference standards, give manufacturer, trade name, model or catalog designation, and reference standards.

1.5 PRODUCT DATA

- A. Product Data: Submit to Owner for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Submit number of copies Contractor requires.
- C. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- D. Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- E. After review, produce copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents described in Section 01 70 00 - Execution and Closeout Requirements.

1.6 SHOP DRAWINGS

- A. Shop Drawings: Submit to Owner for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Coordinate with owner special utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- C. When required by individual specification sections, provide shop drawings signed and sealed by professional engineer responsible for designing components shown on shop drawings.
 - 1. Include signed and sealed calculations to support design.
 - 2. Submit drawings and calculations in form suitable for submission to and approval by authorities having jurisdiction.
 - 3. Make revisions and provide additional information when required by authorities having jurisdiction.

1.7 DESIGN DATA

- A. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.8 TEST REPORTS

- A. Submit test reports for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.9 CERTIFICATES

- A. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- B. Certificates may be recent or previous test results on material or Product, but must be acceptable to Owner.

1.10 MANUFACTURER'S INSTRUCTIONS

- A. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to Owner in quantities specified for Product Data.
- B. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

1.11 MANUFACTURER'S FIELD REPORTS

- A. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

1.12 ERECTION DRAWINGS

- A. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.
- B. Data indicating inappropriate or unacceptable Work may be subject to action by Owner.

1.13 CONSTRUCTION PHOTOGRAPHS

- A. Provide photographs of construction throughout progress of Work produced by an experienced photographer, acceptable to Owner.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION

SECTION 01 40 00

QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Quality control and control of installation.
- B. Tolerances.
- C. References.
- D. Testing and inspection services.

1.2 QUALITY CONTROL AND CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step, in sequence.
- C. When manufacturers' instructions conflict with Contract Documents, request clarification from Owner before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Perform Work by persons qualified to produce required and specified quality.
- F. Verify field measurements are as indicated on Shop Drawings or as instructed by manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.

1.3 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. When manufacturers' tolerances conflict with Contract Documents, request clarification from Owner before proceeding.
- C. Adjust products to appropriate dimensions and position before securing products in place.

1.4 REFERENCES

- A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current on date of Contract Documents, except where specific date is established by code.
- C. Obtain copies of standards where required by product specification sections.
- D. When specified reference standards conflict with Contract Documents, request clarification from Owner before proceeding.

1.5 TESTING AND INSPECTION SERVICES

- A. Contractor will employ and pay for specified services of an independent firm to perform testing and inspection.
- B. The independent firm will perform tests, inspections and other services specified in individual specification sections and as required by Owner.
 - 1. Laboratory: Authorized to operate in State of Missouri.
 - 2. Laboratory Staff: Maintain full time registered Engineer on staff to review services.
 - 3. Testing Equipment: Calibrated at reasonable intervals with devices of an accuracy traceable to National Bureau of Standards or accepted values of natural physical constants.
- C. Testing, inspections and source quality control may occur on or off project site. Perform off-site testing as required by Owner.

- D. Reports will be submitted by independent firm to Owner, Contractor, and authority having jurisdiction, indicating observations and results of tests and indicating compliance or non-compliance with Contract Documents.
 - 1. Submit final report indicating correction of Work previously reported as non-compliant.
- E. Cooperate with independent firm; furnish samples of materials, design mix, equipment, tools, storage, safe access, and assistance by incidental labor as requested.
 - 1. Notify Owner and independent firm 24 hours prior to expected time for operations requiring services.
 - 2. Make arrangements with independent firm and pay for additional samples and tests required for Contractor's use.
- F. Testing and employment of testing agency or laboratory shall not relieve Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
- G. Re-testing or re-inspection required because of non-conformance to specified requirements shall be performed by same independent firm on instructions by Owner.
- H. Agency Responsibilities:
 - 1. Test samples of mixes submitted by Contractor.
 - 2. Provide qualified personnel at site. Cooperate with Owner and Contractor in performance of services.
 - 3. Perform specified sampling and testing of products in accordance with specified standards.
 - 4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 5. Promptly notify Owner and Contractor of observed irregularities or non-conformance of Work or products.
 - 6. Perform additional tests required by Architect/Engineer.
 - 7. Attend preconstruction meetings and progress meetings.
- I. Agency Reports: After each test, promptly submit two copies of report to Architect/Engineer, Contractor, and authority having jurisdiction. When requested by Architect/Engineer, provide interpretation of test results. Include the following:
 - 1. Date issued.
 - 2. Project title and number.

3. Name of inspector.
4. Date and time of sampling or inspection.
5. Identification of product and specifications section.
6. Location in Project.
7. Type of inspection or test.
8. Date of test.
9. Results of tests.
10. Conformance with Contract Documents.

J. Limits On Testing Authority:

1. Agency or laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency or laboratory may not approve or accept any portion of the Work.
3. Agency or laboratory may not assume duties of Contractor.
4. Agency or laboratory has no authority to stop the Work.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION – Not Used

END OF SECTION

SECTION 01 50 00

TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Temporary Utilities:

1. Temporary electricity.
2. Temporary lighting for construction purposes.
3. Temporary heating.
4. Temporary cooling.
5. Temporary ventilation.
6. Telephone service.
7. Internet service.
8. Temporary water service.
9. Temporary sanitary facilities.

B. Construction Facilities:

1. Field offices and sheds.
2. Vehicular access.
3. Parking.
4. Progress cleaning and waste removal.
5. Fire prevention facilities.

C. Temporary Controls:

1. Barriers.
2. Security.
3. Water control.
4. Dust control.

5. Erosion and sediment control.
6. Noise control.
7. Pollution control.
8. Rodent control.

D. Removal of utilities, facilities, and controls.

1.2 TEMPORARY ELECTRICITY

- A. Owner will pay cost of energy used. Exercise measures to conserve energy. The Owner will provide temporary electric feeder from electrical service to a location designated by the Design/Build Contractor.
- B. Complement existing power service capacity and characteristics as required for construction operations.
- C. Provide power outlets, with branch wiring and distribution boxes as required for construction operations. Provide flexible power cords as required for portable construction tools and equipment.
- D. Provide main service disconnect and over-current protection at convenient location.
- E. Permanent convenience receptacles may not be utilized during construction.
- F. Provide distribution equipment, wiring, and outlets to provide single phase branch circuits for power and lighting.

1.3 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

- A. Provide and maintain lighting for construction operations.
- B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps for specified lighting levels.
- C. Maintain lighting and provide routine repairs.
- D. Permanent building lighting may be utilized during construction.

1.4 TEMPORARY HEATING

- A. Provide and pay for heating devices and heat as needed to maintain specified conditions for construction operations.
- B. Prior to operation of permanent equipment for temporary heating purposes, verify installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.5 TEMPORARY COOLING

- A. Provide and pay for cooling devices and cooling as needed to maintain specified conditions for construction operations.
- B. Prior to operation of permanent equipment for temporary cooling purposes, verify installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.6 TEMPORARY VENTILATION

- A. Ventilate enclosed areas to achieve curing of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

1.7 TELEPHONE SERVICE

- A. Provide, maintain, and pay for telephone service to field office at time of project mobilization.

1.8 INTERNET SERVICE

- A. Provide, maintain and pay for internet service to field office at time of project mobilization.

1.9 TEMPORARY WATER SERVICE

- A. The Owner will provide and pay for suitable quality water service as needed to maintain specified conditions for construction operations.
- B. Extend branch piping with outlets located so water is available by hoses with threaded connections. Provide temporary pipe insulation to prevent freezing.
- C. Coordinate hydrant connection with the Bruce Oakley.

1.10 TEMPORARY SANITARY FACILITIES

- A. Bruce Oakley will provide and maintain required facilities and enclosures.

1.11 FIELD OFFICES AND SHEDS

- A. Designated spaces may be used for field offices and for storage
- B. Provide space for Project meetings, with table and chairs.
- C. Location of offices and sheds to be approved by the Owner.
- D. Do not use permanent facilities for field offices or for storage without authorization from the Owner.
- E. Construction: Portable or mobile buildings, or buildings constructed with floors raised above ground, securely fixed to foundations with steps and landings at entrance doors.
 - 1. Construction: Structurally sound, secure, weather tight enclosures for office and storage spaces. Maintain during progress of Work; remove at completion of Work.
 - 2. Temperature Transmission Resistance of Floors, Walls, and Ceilings: Compatible with occupancy and storage requirements.
 - 3. Exterior Materials: Weather resistant, finished in one color acceptable to Owner.
 - 4. Interior Materials in Offices: Sheet type materials for walls and ceilings, pre-finished or painted; resilient floors and bases.
 - 5. Lighting for Offices: 50ft C at desk top height, exterior lighting at entrance doors.
 - 6. Interior Materials in Storage Sheds: As required to provide specified conditions for storage of products.
- F. Environmental Control:
 - 1. Heating, Cooling, and Ventilating for Offices: Automatic equipment to maintain comfort conditions.
 - 2. Storage Spaces: Heating and ventilation as needed to maintain products in accordance with Contract Documents; lighting for maintenance and inspection of products.
- G. Preparation: Fill and grade sites for temporary structures sloped for drainage away from buildings.
- H. Installation:

1. Install office spaces ready for occupancy as required by the construction schedule.
2. Employee Residential Occupancy: Not allowed on Owner's property.
- I. Maintenance And Cleaning:
 1. Weekly janitorial services for offices; periodic cleaning and maintenance for office and storage areas.
 2. Maintain approach walks free of mud, water, and snow.
- J. Removal: At completion of Work remove buildings, foundations, utility services, and debris. Restore areas.

1.12 VEHICULAR ACCESS

- A. Location approved by Owner.
- B. Provide unimpeded access for emergency vehicles. Maintain 20 feet wide driveways with turning space between and around combustible materials.
- C. Provide and maintain access to fire hydrants and control valves free of obstructions.
- D. Provide means of removing mud from vehicle wheels before entering streets.
- E. Use designated on-site roads for construction traffic.

1.13 PARKING

- A. Arrange for temporary gravel surface parking areas to accommodate construction personnel as required.
- B. Locate as approved by Owner.
- C. When site space is not adequate, provide additional off-site parking.
- D. Do not allow heavy vehicles or construction equipment in parking areas.
- E. Do not allow vehicle parking on existing pavement.
- F. Maintenance:
 1. Maintain traffic and parking areas in sound condition free of excavated material, construction equipment, products, mud, snow, and ice.

G. Removal, Repair:

1. Remove temporary materials and construction before Substantial Completion.
2. Remove underground work and compacted materials to depth of 2 ft., fill and grade site as specified.
3. Repair permanent facilities damaged by use, to specified condition.

H. Mud From Site Vehicles: Provide means of removing mud from vehicle wheels before entering streets.

1.14 PROGRESS CLEANING AND WASTE REMOVAL

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition.
- B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing spaces.
- C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- D. Collect and remove waste materials, debris, and rubbish from site weekly and dispose off-site.
- E. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.15 FIRE PREVENTION FACILITIES

- A. Establish fire watch for cutting and welding and other hazardous operations capable of starting fires. Maintain fire watch before, during, and after hazardous operations until threat of fire does not exist.
- B. Portable Fire Extinguishers: NFPA 10; 10 pound capacity, 4A-60B: C UL rating.
 1. Provide fire extinguishers as required in the construction areas.
 2. Provide minimum one fire extinguisher in every construction trailer and storage shed.
 3. Provide minimum one fire extinguisher on roof during roofing operations using heat producing equipment.

1.16 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas to allow for Owner's use of site, and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide barricades and covered walkways required by authorities having jurisdiction for public rights-of-way.
- C. Provide protection for plants designated to remain. Replace damaged plants.
- D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.17 SECURITY

- A. Security Program:
 - 1. Owner will maintain security on site during construction operations. However this does not guarantee the security of contractors tools.
- B. Entry Control:
 - 1. Restrict entrance of persons and vehicles into Project site.
 - 2. Allow entrance only to authorized persons with proper identification.
 - 3. Maintain log of workers and visitors, make available to Owner on request.
- C. Restrictions:
 - 1. Do not allow cameras on site or photographs taken except by written approval of Owner.

1.18 WATER CONTROL

- A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.
- B. Protect site from puddling or running water.

1.19 DUST CONTROL

- A. Execute Work by methods to minimize raising dust from construction operations.
- B. Provide positive means to prevent air-borne dust from dispersing into atmosphere.

1.20 EROSION AND SEDIMENT CONTROL

- A. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
- B. Provide silt fencing and erosion control methods around the construction site as required.
- C. Minimize surface area of bare soil exposed at one time.
- D. Provide temporary measures including berms, dikes, and drains, and other devices to prevent water flow.
- E. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.
- F. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

1.21 NOISE CONTROL

- A. Provide methods, means, and facilities to minimize noise produced by construction operations.

1.22 POLLUTION CONTROL

- A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.
- B. Comply with pollution and environmental control requirements of authorities having jurisdiction.

1.23 RODENT CONTROL

- A. Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

1.24 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion inspection.

- B. Remove underground installations to minimum depth of 2 feet.
- C. Clean and repair damage caused by installation or use of temporary work.
- D. Restore permanent facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

PART 2 - PRODUCTS - Not Used

PART 3 - EXECUTION - Not Used

END OF SECTION



APPENDIX A



BID FORM

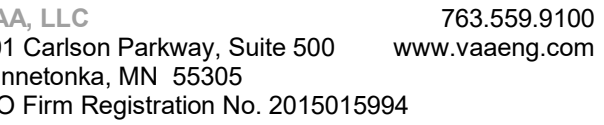
Belt 3 Rail Loadout Modifications

Bruce Oakley – St. Louis MO

Item	Total Price
Complete installation of Belt 3 Rail Loadout Modifications per drawings and specifications	



APPENDIX B



**BRUCE
O. AKLEY, Inc**

[illegible]

**ISSUED
FOR BID**

GENERAL ARRANGEMENT, N/A

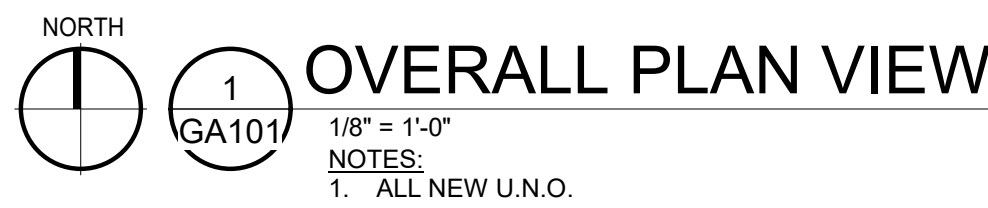
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DATE: 04/29/26		DRAWN: KJS/ELR	
DESIGNED: VAA	CHECKED: KJS	APPROVED: BDU	

DRAWING TITLE:

OVERALL PLAN VIEW AND
SECTION

PROJECT NO: 252748	DRAWING NO:
SCALE: AS NOTED	GA101

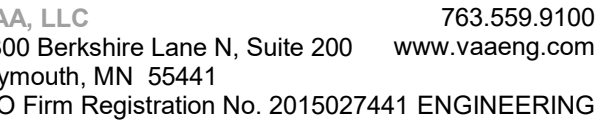




PROJECT NO: 252748	DRAWING NO: GA102
SCALE: AS NOTED	

	BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC)			
2	DESIGN LOADS:			
2.1	ROOFS:			
	LIVE.....			.20 PSF
	SNOW: GROUND SNOW LOAD, P _g			.20 PSF
	FLAT ROOF SNOW LOAD, P _i			.20 PSF**
	EXPOSURE FACTOR, C _e			1.0
	THERMAL FACTOR, C _t			1.2 (UNHEATED STRUCTURE)
	IMPORTANCE FACTOR, I _r			1.0
2.2	CATWALKS AND EQUIPMENT ACCESS.....			.60 PSF
2.3	ICE LOADS:			
	NOMINAL ICE THICKNESS, I (500-YEAR MEAN RECURRENCE INTERVAL) ..			.2 IN
	CONCURRENT WIND SPEED, V _e			40 MPH
	IMPORTANCE FACTOR, I _i			1.0
2.4	WIND:			
	BASIC DESIGN WIND SPEED, V.....			108 MPH
	RISK CATEGORY.....			II
	EXPOSURE.....			C
2.5	SEISMIC DATA:			
	SITE CLASS			D
	RISK CATEGORY.....			II
	IMPORTANCE FACTOR, I _r			1.0
	MAPPED SPECTRAL RESPONSE COEFFICIENT, S _s			0.44
	MAPPED SPECTRAL RESPONSE COEFFICIENT, S ₁			0.157
	DESIGN SPECTRAL RESPONSE COEFFICIENT, S _{os}			0.425
	DESIGN SPECTRAL RESPONSE COEFFICIENT, S _{o1}			0.24
	SEISMIC DESIGN CATEGORY.....			D
3	GENERAL NOTES:			
3.1	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF PERSONS AND PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTION AND PROGRAMS.			
3.2	THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. DURING ERECTION OF THE STRUCTURE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TEMPORARY GUYING, SHORING, BRACING, FORMING, ETC. TO HOLD THE STRUCTURE IN PROPER ALIGNMENT AND TO WITHSTAND ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING LATENT AND TEMPORARY DIFFERENTIALS. STOCKPILES OF MATERIAL AND EQUIPMENT, SUCH MEASURES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING AND CONNECTIONS INCLUDING ROOF DECK ARE IN PLACE. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF SUCH TEMPORARY MEASURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.			
3.3	DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION, WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW BY THE ENGINEER.			
3.4	ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, TELECOMMUNICATION DRAWINGS, FIRE PROTECTION DRAWINGS, EQUIPMENT DRAWINGS AND RELATED ITEMS ARE BY OTHERS.			
3.5	ALL CONDITIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATIONS AND/OR EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.			
3.6	THE CONTRACTOR SHALL COORDINATE ALL DEPRESSIONS, DIMENSIONS, ELEVATIONS, SLEEVES, CHASES, HANGERS, OPENINGS, BLOCK OUTS, INSERTS, ANCHORS, EQUIPMENT SUPPORTS, AND DETAILS WITH THE ENTIRE CONSTRUCTION PACKAGE INCLUDING ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS, ELECTRICAL DRAWINGS, TELECOMMUNICATION DRAWINGS, FIRE PROTECTION DRAWINGS AND EQUIPMENT DRAWINGS. FOR CONCRETE AND MASONRY CONSTRUCTION THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH REINFORCEMENT LOCATIONS.			
3.7	BAR GRATING SHALL BE ATTACHED TO BEAMS AND OTHER SUPPORTS AT 12 IN OC WITH MANUFACTURER'S CLIPS. TACK WELD TO GRADE OR AS NECESSARY.			
3.8	MECHANICAL UNITS SUPPORTED BY ROOF OR FLOOR STRUCTURE ARE SUBJECT TO THE ACCEPTANCE OF THE STRUCTURAL ENGINEER.			
4	EXISTING CONSTRUCTION:			
4.1	WHEREVER APPLICABLE, PRIOR TO FABRICATION AND CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS, DETAILS OF STRUCTURAL CONNECTIONS AND OTHER CONDITIONS WHERE THEY AFFECT THIS CONSTRUCTION. NOTIFY THE ENGINEER IF THERE ARE ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. CONSULT WITH THE STRUCTURAL ENGINEER BEFORE MAKING ANY MODIFICATIONS TO THE EXISTING STRUCTURE NOT INDICATED ON THE CONTRACT DOCUMENTS.			
5	FOOTINGS AND SOIL DATA:			
5.1	REQUIRED H-PILE CAPACITY IS AS FOLLOWS:			
5.2	COMPRESSION.....			.50 TONS ALLOWABLE (ASD)
5.3	BEDROCK ASSUMED TO AT A DEPTH OF APPROXIMATELY 40'-0" BELOW GRADE. H-PILE EMBEDMENT INTO BEDROCK TO BE A MINIMUM DEPTH OF 3'.			
5.4	FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ON COMPACTED, ENGINEERED FILL. ALL SUBGRADE SHALL BE PREPARED AND CONNECTED ACCORDING TO THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT.			
5.5	ALL TOPSOIL, FILL, AND OTHER UNSUITABLE BEARING MATERIAL SHALL BE REMOVED. A GEOTECHNICAL ENGINEER SHALL INSPECT THE EXCAVATED AREA TO ENSURE ALL MATERIALS REQUIRING REMOVAL HAVE BEEN REMOVED AND TO VERIFY THE SOIL BEARING CAPACITY USED FOR DESIGN PRIOR TO CONCRETE PLACEMENT.			
5.6	ICE SLABS, FORTINGS OR SLABS SHALL BE PLACED ONTO OR AGAINST SUBGRADE CONTAINING FREE WATER. FROST OR ICE, CONTYRACTOR SHALL TAKE ANY NECESSARY PREPARED TO REMOVE ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE OR PROPER DEPTH OF BURY. DO NOT UNDERMINE EXISTING FOUNDATIONS.			
6	REINFORCED CONCRETE:			
6.1	DESIGN CODE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318), LATEST ADOPTION.			
6.2	CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 USING THE FOLLOWING:			
	PORTLAND CEMENT CONFORMING TO ASTM C150 OR BLENDED CEMENT CONFORMING TO ASTM C595			
	FLY ASH CONFORMING TO ASTM C618.			
	SLAG CONFORMING TO ASTM C989.			
	SILICA FUME CONFORMING TO ASTM C1240.			
	AGGREGATE CONFORMING TO ASTM C33 FOR NORMAL WEIGHT AGGREGATE AND ASTM C330 FOR LIGHTWEIGHT AGGREGATE			
	ADMIXTURES CONFORMING TO ASTM C494, C1017, AND C260. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE.			
	CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.			
	CONCRETE IN CONTACT WITH SOIL SHALL USE TYPE V CEMENT IN ACCORDANCE WITH ASTM C150 AND SHALL NOT CONTAIN ANY CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM SALTS.			
6.3	MATERIAL STRENGTHS:			

	FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL SHORING.
6.17.1	WALKWAYS AND OTHER EXTERIOR SLABS, IF SHOWN ON THE STRUCTURAL DRAWINGS, ARE FOR INFORMATION ONLY. SEE THE SITE PLAN, CIVIL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS.
6.17.2	SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
6.17.3	FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 302.1 R.
7	STRUCTURAL STEEL:
7.1	DESIGN CODE: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360), LATEST ADOPTION.
7.2	MATERIAL SPECIFICATIONS (UNLESS NOTED OTHERWISE):
	STRUCTURAL STEEL WIDE FLANGEASTM A992
	STRUCTURAL STEEL BEARING RIVETSASTM A572 GR 50
	OTHER STRUCTURAL STEEL ROLLED SHAPES, PLATES & BARSASTM A36
	HOLLOW STRUCTURAL SECTIONSASTM A500, GR C
	STRUCTURAL STEEL PIPE (TYPE E)ASTM A53, GR B
	CONNECTION BOLTSASTM F1525 A325 TYPE 1
	STEEL HEADED STUD ANCHORS (TYPE B)ASTM A108
	ANCHOR RODSASTM F1554, GR 36
	WELDS FOR A36 & 3/4 IN THICK, A500, AND A53 W/ SMAW PROCESS70 KSI FILLER METAL, E70XX ELECTRODES
	WELDS FOR A36 & 3/4 IN THICK, A992, A572 W/ SMAW PROCESS70 KSI FILLER METAL, E7015, E7016, E7018, E7028 ELECTRODES
	WELDS FOR OTHER MATERIALS AND/OR OTHER PROCESSES70 KSI FILLER METAL COMPLYING WITH REQUIREMENTS FOR MATCHING FILLER METALS PER AWS D1.1
	NON-SHRINK GROUT7,000 PSI, ASTM C1107, GR. A
7.3	ALL STRUCTURAL STEEL, INCLUDING ANCHOR BOLTS, SHALL BE FABRICATED AND ERECTED ACCORDING TO THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360), LATEST ADOPTION, AND THE CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303), LATEST ADOPTION. THE FABRICATOR SHALL PROVIDE ITS SCHEDULE FOR THE SUBMITTAL OF SHOP AND ERECTION DRAWINGS A MINIMUM OF 14 DAYS PRIOR TO FIRST SUBMITTAL.
7.4	ALL ANCHORS, ANCHOR BOLTS, BASE PLATES, ETC. HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. CONFORMANCE TO OR DEVIATION FROM ALLOWABLE CAPACITIES DURING ERECTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR (SEE GENERAL NOTES).
7.5	THE WELD SYMBOLS AND LOCATIONS WHERE FIELD WELDS ARE REQUIRED BY THE STRUCTURAL DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL ERECTION.
7.6	STRUCTURAL STEEL SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS UNLESS DETAILED ON THE DRAWINGS. UNLESS OTHERWISE STATED OTHERWISE, BEAM CONNECTIONS SHALL BE SELECTED TO SUPPORT THE END REACTION ASSOCIATED WITH THE MAXIMUM TOTAL UNIFORM LOAD TABULATED IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL. FOR A GIVEN SHAPE, SPAN AND STEEL SPECIFICATION, CONNECTION DEPTHS SHALL NOT BE LESS THAN ONE-HALF THE DEPTH OF THE BEAM. SHOP CONNECTIONS MAY BE WELDED OR BOLTED USING 3/4" MIN DIAMETER A325 BOLTS. FIELD CONNECTIONS SHALL BE BOLTED USING SNUG-TIGHTENED (ST) 3/4" MIN DIAMETER A325 BOLTS. BOLTS NOTED AS PRE-TENSIONED (PT) OR SUP-CRITICAL GRADE SHALL BE INSTALLED ACCORDING TO AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS PER ASTM F3125.
7.7	PROVIDE STIFFENERS, THROUGH PLATES, ETC AS REQUIRED TO DEVELOP REACTIONS AT HSS, PIPE AND WIDE-FLANGE CONNECTIONS.
7.8	BEAMS SHALL BE FABRICATED AND ERECTED FOR PLACEMENT WITH THE NATURAL CAMBER UP.
7.9	STRUCTURAL STEEL SUPPLIER SHALL PROVIDE BOLTS FOR OSHA BOLTED JOIST CONNECTIONS, DECK AND JOIST BEARING ANGLES OR PLATES, ANGLE FRAMES FOR ROOF OPENING OR ROOFTOP UNIT SUPPORT AND COLUMN ANCHOR RODS.
7.10	ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.1. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS WELDING PER SUB-CRITICAL GRADE OR WHITE PAINT. DAMAGED DURING TRANSPORTING, ERECTING AND FIELD WELDING.
7.11	ALL WELDED SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS ALLOWED PER THICKNESS OF MATERIAL. WELDED, ALL FILLER METAL SHALL COMPLY WITH THE REQUIREMENTS FOR MATCHING FILLER METALS GIVEN IN AWS D1.1. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES.
7.12	BURNING OF HOLES AND TORCH CUTTING AT THE SITE ARE NOT PERMITTED.
7.13	STRUCTURAL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE SHOP PRIMED WITH ONE COAT OF SSPC 15-68, TYPE 1. PROVIDE 3/16" SURFACE GRAY OR WHITE PAINT. DAMAGED DURING TRANSPORTING, ERECTING AND FIELD WELDING.
7.14	PROCESSES SHALL BE REPAIRED TO MATCH THE SHOP APPLIED COATING. STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER INCLUDING BRICK SHELVE ANGLES AND ALL OTHER EXTERIOR WALL LINTELS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. PROVIDE VENT HOLES FOR GALVANIZING AS REQUIRED. SEAL ALL VENT HOLES AFTER GALVANIZING. REPAIR OF GALVANIZED SURFACES SHALL BE PERFORMED WITH A MINIMUM OF 3 COATS OF COLD-GALVANIZING PRODUCT.
7.13	STRUCTURAL BOLTS SHALL BE GALVANIZED. BROKEN-OFF ENDS OF TENSION CONTROL FASTENERS SHALL BE COATED WITH A MINIMUM OF 3 COATS OF A COLD GALVANIZED FINISH.
7.14	FLARE-BEVEL AND FLARE-V GROOVE WELDS SHALL BE COMPLETELY FILLED IN SUCH THAT THE WELD FACE IS FLUSH WITH THE ADJACENT BASE METAL, UNLESS NOTED OTHERWISE.
8	SUBMITTALS:
8.1	GENERAL SUBMITTAL REQUIREMENTS
8.1.1	CONTRACTOR SHALL REVIEW, STAMP, SIGN AND DATE ALL SUBMITTALS PRIOR TO FORWARDING TO ARCHITECT/ENGINEER. THE ENGINEER'S REVIEW IS FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SUBMITTALS. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS IN THE SUBMITTALS.
8.1.2	SHOP DRAWINGS ALL BE IN THE FORM OF BLACK-LINE PRINTS OR PORTABLE DOCUMENT FORMAT (PDF) FOR REVIEW. THE DRAWINGS LISTED BELOW AS "CERTIFIED" SHALL BEAR THE SIGNED AND DATED SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. IN NO CASE SHALL REPRODUCTIONS OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS. DRAWINGS SHALL SHOW ERECTION PLANS, DIMENSIONS, BRACING AND BRIDGING REQUIREMENTS, DETAILS, SUPPORTED MECHANICAL EQUIPMENT AND PIPING. SUBMITTALS ARE REQUIRED.
8.1.3	CALCULATIONS FOR THE STABILITY OF STRUCTURAL AND/OR MANUFACTURED ITEMS SHALL BEAR THE SIGNED AND DATED SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL INCLUDE DESIGN CRITERIA, REACTION FORCES, LOAD CAPACITIES, LAYOUTS SHOWING SPAN AND PITCH, AND CONNECTIONS.
8.1.4	SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED PRIOR TO FABRICATION.
8.2	PILING
8.2.1	PRIOR TO COMMENCING PILE OPERATIONS, THE CONTRACTOR SHALL SUBMIT A PILE LOCATION PLAN SHOWING THE LOCATION & DESIGNATION OF ALL PILES. ALL DETAIL RECORDS FOR INDIVIDUAL PILES SHALL BEAR THIS IDENTIFICATION.
8.2.2	PRIOR TO PILE DRIVING, SUBMIT DATA PERTAINING TO THE PILE DRIVING HAMMER AND RIG.
8.2.3	UPON COMPLETION OF ALL PILE DRIVING, THE CONTRACTOR SHALL PROVIDE THE ENGINEER A SURVEY OF AS-DRIVEN PILE LOCATIONS. THE SURVEY SHALL INDICATE THE MISALIGNMENT OF EACH PILE IN TWO PERPENDICULAR DIRECTIONS, GIVEN IN INCHES, AND THE ACTUAL CUT-OFF ELEVATION (TOP OF GROUT), AND ACTUAL PILEMENT DEPTH OF EACH PILE.
8.3	CONCRETE:
8.3.1	CONCRETE MIX DESIGN(S) SHALL BE SUBMITTED TO ENGINEER FOR REVIEW INCLUDING THE FOLLOWING:
8.3.1.1	A SIGNED CERTIFICATION STATING COMPLIANCE WITH ACI 318 CHAPTER 26 AND ACI 301 STATISTICAL ANALYSIS SHALL BE SUBMITTED WITH EACH MIX DESIGN.
8.3.1.2	PROVIDE CERTIFICATIONS THAT AGGREGATES ARE FREE OF MATERIALS WITH DELETERIOUS REACTIVITY TO ALKALI IN CEMENT.
8.3.1.3	PROVIDE MATERIAL CERTIFICATES FOR EACH PRODUCT/MATERIAL USED.
8.3.2	REINFORCING STEEL SHOP DRAWINGS
8.3.2.1	SHOP DRAWINGS SHALL SHOW REINFORCING, INSERTS, BEARING PADS, OPENINGS, EMBED PLATES FOR HOLDOWNS, BEARING PLATES AND ANCHORS.
8.3.2.2	CALCULATIONS SHALL INCLUDE GRAVITY LOAD ANALYSIS FOR ALL MEMBERS AS WELL AS A LATERAL LOAD ANALYSIS FOR THE DESIGN OF PRECAST FLOOR DIAPHRAGMS, WALL PANELS, ETC.
8.4	STRUCTURAL STEEL:
8.4.1	CERTIFIED SHOP DRAWINGS AND CALCULATIONS
8.4.1.1	CALCULATIONS ARE REQUIRED FOR CONNECTIONS DESIGNED BY FABRICATOR.
9	SPECIAL INSPECTIONS
9.1	SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1701 THE FOLLOWING PORTIONS OF CONSTRUCTION
9.1.1	CONCRETE (EXCLUDING SLAB-ON-GRADE):
9.1.1.1	DURING TAKING OF TEST SPECIMENS.
9.1.1.2	REINFORCEMENT - PRIOR TO PLACING CONCRETE.
9.1.2	STEEL INSTALLED IN CONCRETE.
9.1.2.1	STRUCTURAL WELDING:
9.1.2.1.1	ONLY APPROVED FABRICATORS IN ACCORDANCE WITH IBC 1704.2.2 SHALL BE USED.
9.1.2.2	FULL TIME INSPECTION IN ACCORDANCE WITH AWS 341 SHALL BE REQUIRED EXCEPT FOR THE FOLLOWING ITEMS WHICH REQUIRE PERIODIC INSPECTION INCLUDING 100% REPAIR INSPECTION, IF ANY.
9.1.2.3	SINGLE-PASS FIELD PERFORMED FIELD WELDS NOT EXCEEDING 5/16"
9.1.2.3.1	VERIFICATION OF WELDER QUALIFICATIONS, WELDING PROCEDURES AND MATERIALS.
9.1.3	HIGH STRENGTH BOLTING (A325 AND A490)
9.1.3.1	VERIFICATION OF MATERIALS.
9.1.3.2	VERIFICATION OF TIGHTENING METHOD.
9.1.3.3	PERIODIC INSPECTION, INCLUDING RANDOM VERIFICATION OF PROPER TIGHTENING.
9.1.4	PERIODIC INSPECTION DURING ANCHORAGE.
9.1.5	REPORTS FOR THE ABOVE SHALL BE SUBMITTED TO THE ENGINEER. ALL REPORTS SHALL CLEARLY INDICATE COMPLIANCE OR NON-COMPLIANCE.



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DATE: 06/02/26		DRAWN: PPV	
DESIGNED: JML	CHECKED: PPV / ACO	APPROVED: Approver	

DRAWING TITLE:

ROOF & CONVEYOR HEAD
ACCESS FLOOR FRAMING PLAN

PROJECT NO: 252748	DRAWING NO: S102
SCALE: AS NOTED	



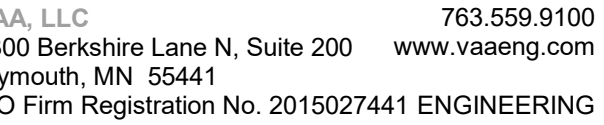
NOTES:

1. FOR STRUCTURAL NOTES SEE S001.
2. FOR TYP BEAM TO COLUMN CONNECTIONS SEE 6/S106 & SEE 7/S106.
3. FOR TYP BEAM TO BEAM CONNECTIONS SEE 5/S106.



NOTES:

1. FOR STRUCTURAL NOTES SEE S001.
2. FOR TYP BEAM TO COLUMN CONNECTIONS SEE 6/S106 & SEE 7/S106.
3. FOR TYP BEAM TO BEAM CONNECTIONS SEE 5/S106.



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DESIGNED: JML	CHECKED: PPV / ACO	APPROVED: KRF
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DRAWING TITLE:

PROJECT NO: 252748	DRAWING NO:
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SCALE: AS NOTED



1/4" = 1'-0"

NOTES:

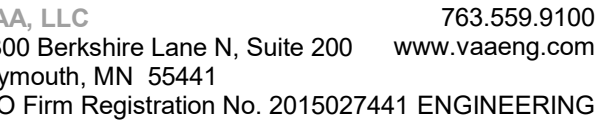
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2. FOR TYP BEAM TO COLUMN CONNECTIONS SEE 6/S106 & SEE 7/S106.
3. FOR TYP BEAM TO BEAM CONNECTIONS SEE 5/S106.



1/4" = 1'-0"

NOTES:

1. FOR STRUCTURAL NOTES SEE S001.
2. FOR TYP BEAM TO COLUMN CONNECTIONS SEE 6/S106 & SEE 7/S106.
3. FOR TYP BEAM TO BEAM CONNECTIONS SEE 5/S106.

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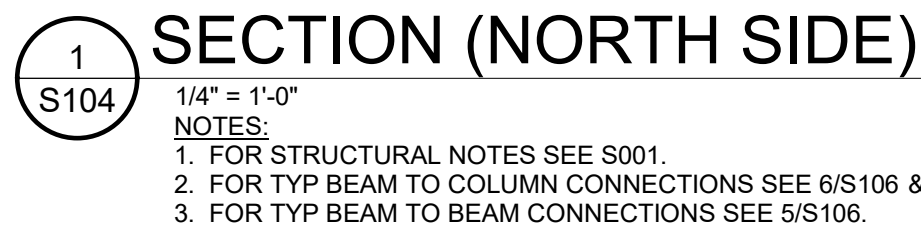
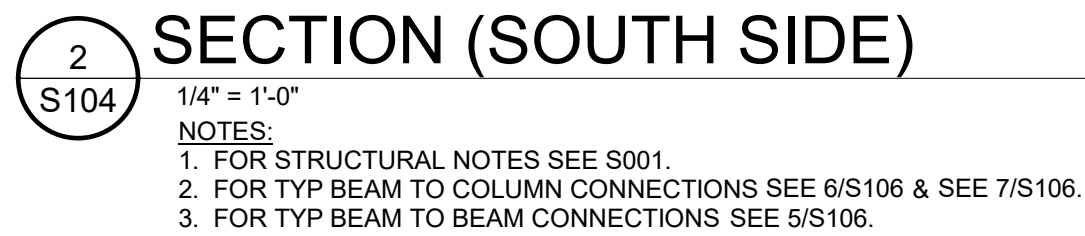
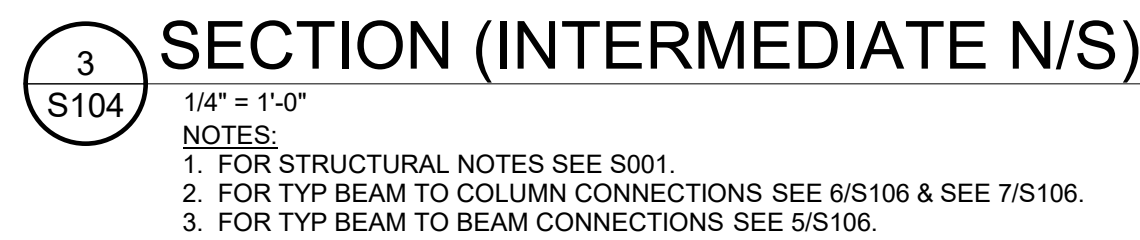
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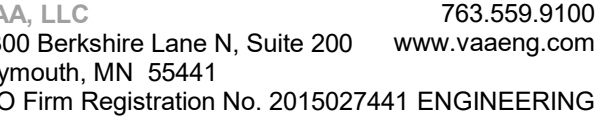
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SECTIONS

PROJECT NO: 252748	DRAWING NO: S104
SCALE: AS NOTED	





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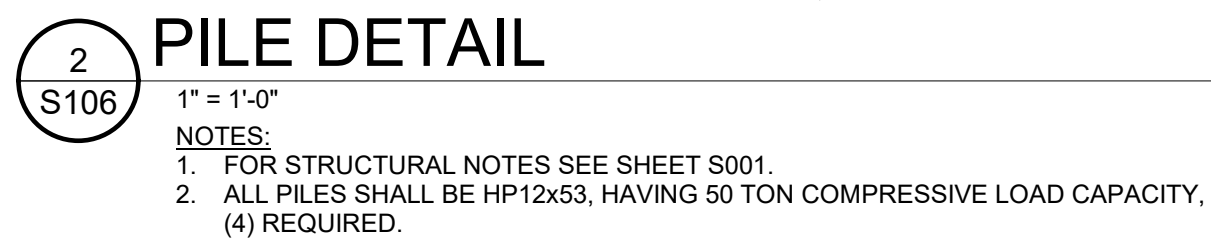
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DESIGNED: Designer	CHECKED: Checker	APPROVED: Approver	

STAIR SECTIONS

PROJECT NO: 252748	DRAWING NO: S105
SCALE: AS NOTED	





5
S106

TYP BM TO BM CONN DETAIL

1" = 1'-0"

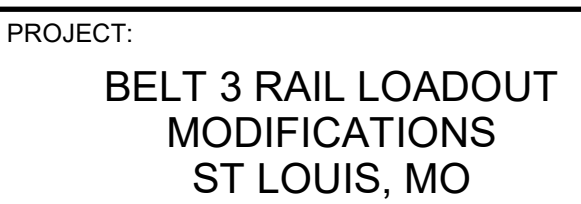
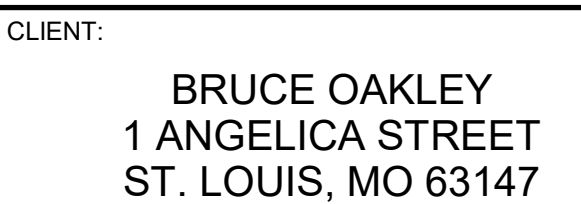
NOTE:
COPE BEAM FLANGES AS REQD TO CLR COLUMN FLANGES



7
S106

TYP BM TO COL FLANGE DETAIL

1" = 1'-0"



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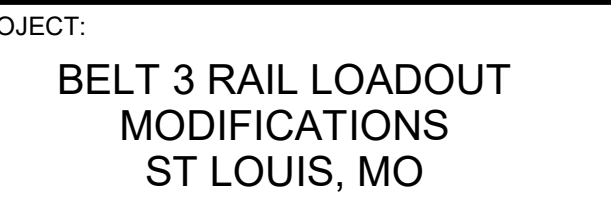
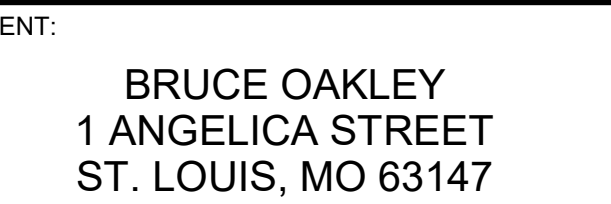
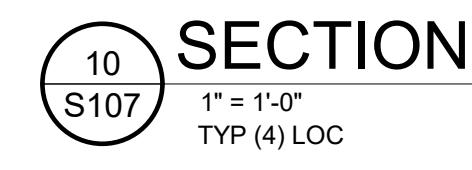
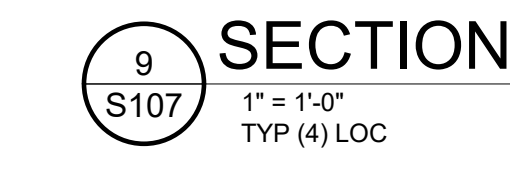
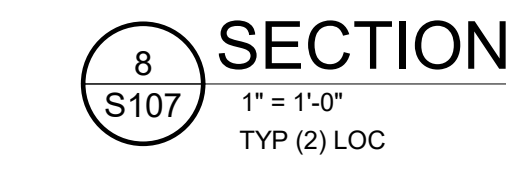
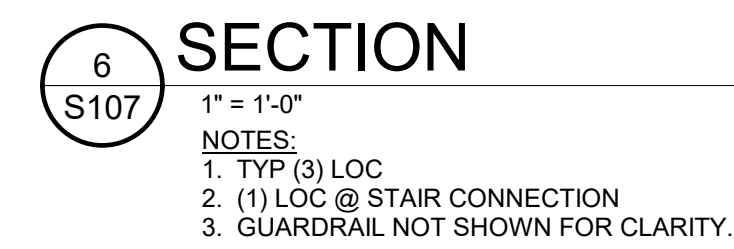
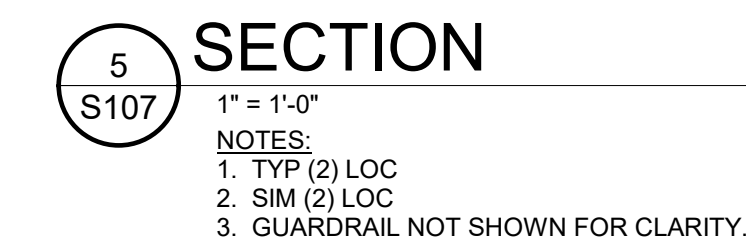
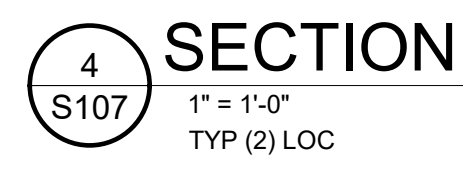
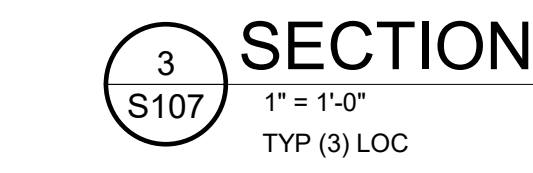
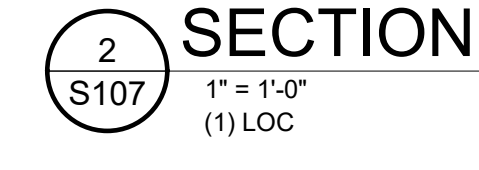
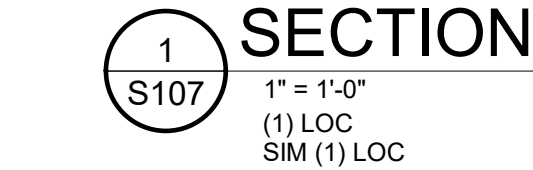
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DATE: 06/02/26		DRAWN: PPV	
DESIGNED: JML	CHECKED: PPV / ACO	APPROVED: KRF	

SUPPORT TOWER SECTIONS & DETAILS

AWING NO:

S106

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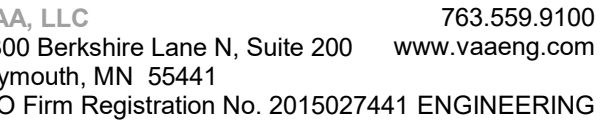
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SIGNED: ML	CHECKED: PPV / ACO	APPROVED: KRF	

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SUPPORT TOWER SECTIONS & DETAILS

PROJECT NO: 52748	DRAWING NO: S107
SCALE: AS NOTED	





BRUCE
O·A·K·L·E·Y, Inc

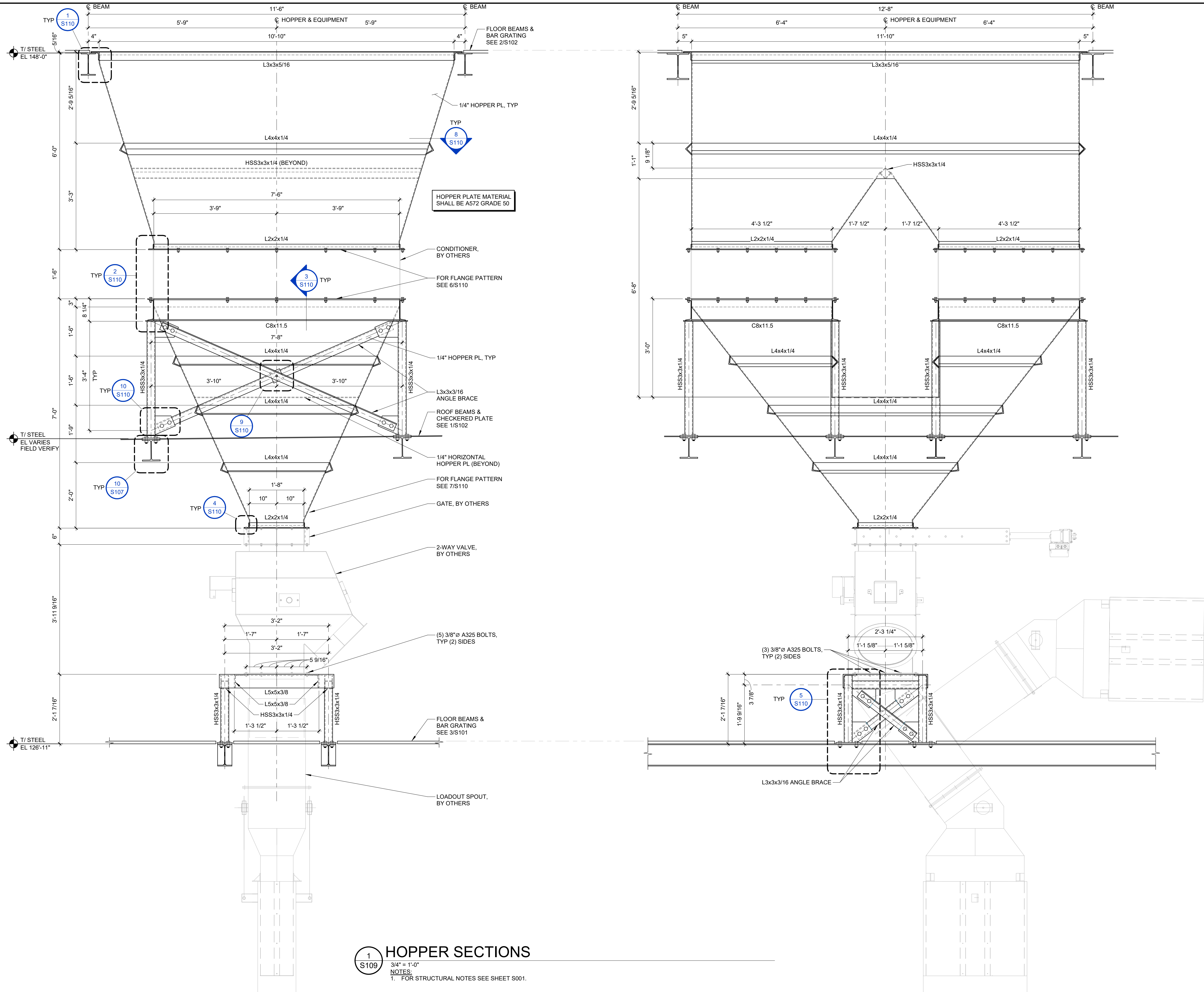
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PRELIMINARY
NOT FOR CONSTRUCTION

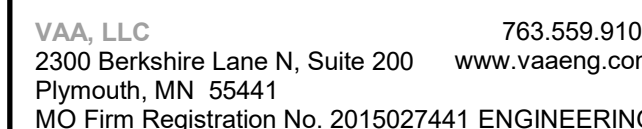
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DRAWING TITLE:

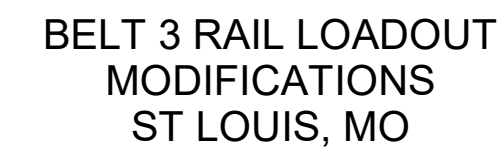
PROJECT NO: 252748	DRAWING NO: S109
SCALE: AS NOTED	



Date Printed: 8/17/2028 10:08:43 AM



BRUCE OAKLEY
1 ANGELICA STREET
ST. LOUIS, MO 63147



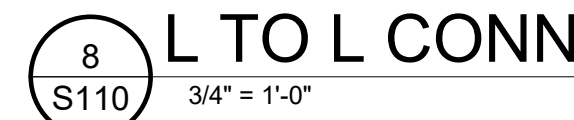
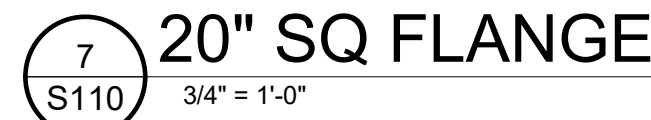
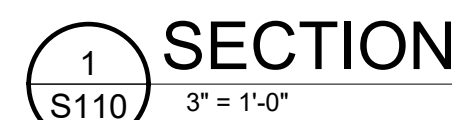
PRELIMINARY
NOT FOR CONSTRUCTION

PE-2022016

DATE: 06/17/26		DRAWN: PPV	
DESIGNED: JML	CHECKED: PPV / ACO	APPROVED: KRF	

HOPPER SECTIONS & DETAILS

S110





APPENDIX C

BRUCE OAKLEY, INC. & ITS WHOLLY OWNED SUBSIDIARIES AND AFFILIATES
TERMINAL ACCESS AND INDEMNITY AGREEMENT

THIS TERMINAL ACCESS AND INDEMNITY AGREEMENT (this "**Agreement**") is agreed this ____ day of _____, 2025, by and between **BRUCE OAKLEY, INC.**, or any of its Wholly Owned Subsidiaries and Affiliates, an Arkansas corporation (collectively "**Oakley**"), and _____, ("**Vendor**").

W I T N E S S E T H:

WHEREAS, Oakley and its wholly owned subsidiaries and affiliates own and operate various terminal facilities, docks, wharves, yards, fleeting location and all other premises, owned, leased or operated by Oakley (each a "Terminal" and, collectively, the "Terminals").

WHEREAS, Vendor and it's agents, employees, representatives and independent contractors from time to time require access to the Terminals.

WHEREAS, Oakley is willing to give the Vendor access to the Terminals, but only upon the condition that Vendor provides Oakley certain indemnities with respect thereto and, otherwise, enters into this Agreement.

NOW, THEREFORE, for and in consideration of the covenants and agreements set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Vendor and Oakley agree as follows:

1. **Access.** The vendor and its agents, employees, representatives and independent contractors shall have the right to enter upon the Terminal for any purpose approved by Oakley. The vendor agrees to conduct itself in a manner that will not harm or damage the Terminal and agrees to repair any damage to the Terminal caused by Vendor to substantially its prior condition. Oakley shall have the right but not the duty to accompany Vendor while Vendor is at the Terminal. Notwithstanding anything to the contrary contained herein, Vendor shall not interfere with the operations of Oakley's business at the terminal. The Vendor's obligations under this Paragraph 1 shall survive the termination of this Agreement.

2. **Insurance.** Prior to entering the Terminal and at all times while this Agreement is in effect, Vendor shall maintain, and shall require that its contractors maintain, (i) public liability and property damage insurance in the amount of \$2,000,000, (ii) auto liability insurance in the amount of \$1,000,000, and (iii) workers compensation insurance in at least the statutory minimum amount, all in form and substance adequate to insure against all liability of Vendor, its agents, employees or contractors, arising out of any entry to the Terminal pursuant to the provisions hereof. Upon request, Vendor shall provide Oakley with a certificate of insurance evidencing such coverage. Any access to a location that is Water or Riverfront or adjacent to the water or river shall require Marine General Liability in the amount of \$5,000,000. If the operation involves the repair or service of a vessel or any of its equipment, Ship Repairers Legal Liability in the amount of \$2,000,000 shall be required. Longshore, by endorsement of the worker's compensation policy or monoline shall be at least the statutory minimum amount. If the operation involves any work or activity on vessels (owned or non-owned by Oakley) away from the dock, Maritime Employers Liability in the amount of \$1,000,000. The Vendor shall provide Excess Coverage in the amount of \$5,000,000 of all required coverages listed above EXCEPT for workers' compensation and Longshore but including Employers Liability. Oakley should be named has an additional insured or alternate employer and have a waiver of subrogation on all policies listed above.

3. Indemnities. Vendor shall, to the full extent permitted by applicable law, indemnify, defend, and hold harmless Oakley and its subsidiaries and affiliates and their respective shareholders, directors, officers, employees, and agents from and against all claims, including, but not limited to, claims for or resulting from personal injury, including death, property loss or both, liens on property of Oakley, liabilities, damages, losses, fines, penalties, costs, and expenses (including all reasonable fees and disbursements of attorneys) caused by, in connection with, or attributable to any action of any person or firm entering the Terminals on Vendor's behalf as aforesaid, which indemnity shall survive the termination of this Agreement.

4. Waiver of Claims; Payment and No Liens. Vendor hereby fully and completely waives and releases, for itself, its employees, consultants, agents, contractors and subcontractors, successors and assigns, and for all of their respective officers, directors, employees, representatives, agents, contractors and subcontractors of any tier, any and all claim or right to a mechanic's lien against or with respect to the Terminals or any portion thereof or any improvement thereon or any portion thereof or with respect to any material, fixtures, apparatus or machinery to be furnished thereto, or with respect to any monies or other consideration which may be due at any time hereafter to anyone by Vendor, which claim of lien might be asserted by reason of doing, making or furnishing, heretofore or at any time hereafter, of any labor, services, material, fixtures, apparatus, machinery, improvements, repairs or alterations to the Terminals. Vendor covenants and agrees to pay in full all persons who perform labor on the Terminals and not to permit or suffer any mechanic's or materialman's lien of any kind or nature to be enforced against the Terminals for any such work performed by Vendor or its agents, contractors and representatives under this Agreement. In the event that any lien is placed upon all or a portion of the Terminals in connection with the work being performed under this Agreement, Vendor shall pay and discharge or bond and discharge such lien within ten (10) days after notice of such lien.

5. Oakley Termination. Notwithstanding anything to the contrary in this Agreement, Oakley shall have the right, at any time, to terminate Vendor's right to enter upon the Terminals in accordance with this Agreement by delivering written notice to Vendor.

6. Miscellaneous.

(a) **Nothing herein contained shall be deemed to create any agency, partnership or employer/employee relationship between Vendor and Oakley. The vendor shall at all times and for all purposes be an independent contractor.**

(b) No amendment, change or modification of this Agreement shall be valid, unless in writing and signed by the party against whom enforcement of the change is sought.

(c) All of the terms and provisions contained herein shall inure to the benefit of and shall be binding upon the parties hereto and their respective heirs, legal representatives, successors and assigns; provided, however, that Vendor shall not transfer any of its rights here under without the prior written consent of Oakley. Any such assignment made without the prior written consent of Oakley shall be null and void and of no force or effect and shall entitle Oakley to terminate this Agreement.

(d) Vendor agrees to observe all appropriate safety precautions and to comply with all relevant local, state, and federal laws, statutes, ordinances, codes and regulations while exercising its access rights under this Agreement.

(e) If any provision of this Agreement shall be determined invalid, illegal or unenforceable, the balance of this Agreement shall remain in full force and effect.

(f) In the event suit or action is instituted to interpret or enforce the terms of this Agreement, or in connection with any arbitration or mediation of any dispute, the prevailing party shall be entitled to recover from the other party such sum as the court, arbitrator or mediator may adjudge reasonable as such party's costs and attorney's fees, including such costs and fees as are incurred in any trial, on any appeal, in any bankruptcy proceeding (including the adjudication of issues peculiar to bankruptcy law) and in any petition for review. Each party shall also have the right to recover its reasonable costs and attorney's fees incurred in collecting any sum or debt owed to it by the other party, with or without litigation, if such sum or debt is not paid within fifteen (15) days following written demand therefor, provided, that any sum demanded pursuant to the preceding sentence shall be liquidated and not the subject of reasonable dispute.

(g) No waiver of a breach of any provision of this Agreement shall constitute a waiver of any preceding or succeeding breach of the same or any other provision hereof.

(h) This Agreement shall be governed by and construed and enforced in accordance with the substantive laws, not the conflicts laws or choice of law rules, of the State in which the Terminal is located.

(i) This Agreement may be executed in multiple counterparts, each of which shall constitute an original hereof, but all of which, when taken together, shall constitute but one and the same document. Delivery by a party hereto of an email of this Agreement executed by such party shall constitute delivery by such party of an original hereof.

IN WITNESS WHEREOF, Oakley and Vendor have caused this Agreement to be executed as of the day and year first above written.

OAKLEY:

insert Oakley Division Name, i.e. Oakley St. Louis, LLC.

By: _____
Name: _____
Title: _____

VENDOR: _____

By: _____
Name: _____
Title: _____



APPENDIX D

CONSTRUCTION CHANGE ORDER FORM

CO No.: _____

Date: _____

Authorization notice: Do not proceed with changed work until written authorization is issued by the Owner and, when required, the grantor/reviewing agency. Emergency work must be documented immediately and approved per the grant agreement and contract documents.

1. Project and Contract Information

Project Name		Project No.	
Owner / Recipient		Grant No. / Program	
Contractor		Contract No.	
Engineer / PM		Funding Source	

2. Description of Change

Requested Change / Scope Description	Reason for Change and Grant Justification
Affected Drawings / Specs / RFI / Submittals	Impact on Other Contractors, Operations, or Grant Scope

3. Cost Summary

Cost Category	Add	Deduct	Net Amount	Backup Attached
Labor	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No
Materials / Commodities	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No
Equipment	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No
Subcontractor	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No
Overhead / Profit	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No
Bond / Insurance / Taxes	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No
Other	\$ _____	\$ _____	\$ _____	☐ Yes ☐ No

Net Change to Contract Amount: \$ _____ Revised Contract Amount: \$ _____

4. Schedule Impact

Original Completion Date		Current Completion Date	
Days Added		Days Deducted	
Revised Completion Date		Milestone Impact	☐ None ☐ Minor ☐ Major
Critical Path Impact	☐ No ☐ Yes - explain below	Grant Period Impact	☐ No ☐ Yes - grant review required
Schedule Explanation / Recovery Plan			

5. Required Attachments

- | | |
|---|--|
| ☐ Contractor proposal / quote with itemized backup | ☐ Revised drawings, sketches, RFI, field directive, or photos |
| ☐ Labor rate backup and certified payroll impacts, if applicable | ☐ Record of negotiation / cost review |
| ☐ Material quotes, vendor pricing, and domestic preference certifications, if applicable | ☐ Grantor approval or documentation that approval is not required |
| ☐ Updated schedule or narrative of time impact | |

6. Approval and Authorization

Role	Name / Company	Signature	Date
Contractor		_____	_____
Engineer / Project Manager		_____	_____
Owner / Recipient		_____	_____
Grantor / Reviewing Agency, if required		_____	_____
Other Approval		_____	_____

Final authorization: Upon full execution, this Change Order modifies the Contract Sum and/or Contract Time only to the extent stated above. Contractor shall update the schedule of values, payment applications, project schedule, and record documents as applicable.