BELTRAMI COUNTY

WORK MEETING AGENDA

Beltrami County Board of Commissioners
October 1, 2024
3:00 p.m.

Meeting to be Held in the County Board Room
County Administration Building, 701 Minnesota Ave NW
Bemidji, MN

A link to the livestream will be available on the Board Meeting Agendas and Minutes page of the County Website.

1. Call to Order – 3:00 p.m.
2. Introduction of New Employees
3. Identify Future Work Meeting Topics
4. Quarterly Jail Project Update – 3:05 p.m. pg. 1
5. New Jail Testing, Inspection & Commissioning Contracts – 3:25 p.m. pg. 2
6. Health & Human Services Success Stories – 3:35 p.m. pg.100
7. 2024 General Election Update – 3:50 p.m. pg. 101
8. Administrator's Update – 4:35 p.m.
9. Other Business Items – 4:45 p.m.
   a) Review Bills
10. Review Agenda for the October 1, 2024 Regular Board Meeting – 4:50 p.m.
11. Adjourn – 4:55 p.m.

BELTRAMI county

est. 1866

Date: October 1, 2024
Beltrami County Commission

WORK MEETING AGENDA BILL

SUBJECT: Quarterly Jail Project Update

RECOMMENDATIONS: Receive an Update on the Jail Project

DEPARTMENT OF ORIGIN: Administration

CONTACT PERSONS:

Tom Barry County Administrator 333-4109
Danielle Reid, Architect, Klein McCarthy Architects
Stephen Trudeau, Senior Project Manager, Kraus Anderson

DATE SUBMITTED: September 26, 2024

CLEARANCES: Administrator

BUDGET IMPACT: N/A

ATTACHMENTS: None

SUMMARY STATEMENT:

The Minnesota Department of Corrections issued a Notice of Deficiency and has required substantial investments in the current Beltrami County Jail effective September 30, 2019. Committed to mitigating these deficiencies, the Beltrami County Board of Commissioners issued a resolution to the Minnesota Department of Corrections in 2019 vowing to address the deficiencies and work towards long term solutions.

On November 15, 2022, the Beltrami County Board approved moving forward with the design and construction of a new jail facility, pending requisite process approvals and financing. Staff, the Architect and the Construction Manager will provide an update on the project design, schedule, budget and next steps.

BELTRAMI county

Meeting Date: October 1, 2024
Beltrami County Commission
Work Agenda

AGENDA BILL

SUBJECT: New Jail Testing, Inspection & Commissioning Services

RECOMMENDATIONS: Discuss the Special Testing, Inspection and Commissioning Scopes of Work and Fee Proposals for the New Jail

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CONTACT PERSON(s):

Tom Barry, County Administrator	218-333-4109
Steven Trudeau, KA Sr. Project Manager	218-766-5998

DATE SUBMITTED: September 23, 2024

BUDGET IMPACT:

1) Estimated at $71,033.00 for American Engineering Testing Proposal
2) Estimated at $22,183.00 for Braun Intertec Proposal
3) Estimated at $50,500.00 for Stocke Commissioning & Building Solutions Proposal

ATTACHMENTS:

1) American Engineering Testing Proposal
2) Braun Intertec Proposal
3) Stocke Commissioning & Building Solutions Proposal

SUMMARY STATEMENT:

The Minnesota State Development Code mandates independent special testing, inspections, and commissioning services for the new County Jail. The Special Testing and Inspection scope of work is a requirement of the State of MN Dept of Labor & Industry – Building Codes Division and is defined within the structural documents prepared by the Structural Engineer of Record (Paulson-Clark), specifically on sheets S0.0 and S0.1, along with the Summary Schedule signature form. Four qualified firms were solicited, of which three responses were received. The recommendation is to contract with American Engineering Testing, Inc. (AET). AET's proposal includes an "Estimate" of cost for the scope of services offered. They would perform their services on a Time & Material basis and invoice the County accordingly.

The Minnesota State Development Code also mandates independent building envelope inspections services for the new County Jail. Three qualified firms were solicited and Braun Intertec is being recommended. The scope of work is a requirement of the State of MN Dept of Labor & Industry – Building Codes Division in order to meet the current MN Energy Codes and is defined within the Request for Proposal document included with the attachment. Please note: Braun Intertec's proposal includes an "Estimate" of cost for the scope of services offered. They would perform their services on a Time & Material basis and invoice the County accordingly, based on the final quantity of trips ultimately provided.

The Minnesota State Development Code also mandates independent mechanical and electrical inspection services for the new County Jail. Four qualified firms were solicited and Stocke Commissioning & Building Solutions is being recommended. The scope of work is a requirement of the State of MN Dept of Labor & Industry – Building Codes Division in order to meet the current MN Energy Codes and is defined within the Request for Proposal document included with the attachment. Please note: Stocke Commissioning & Building Solutions proposal includes a "Lump Sum" cost for the scope of services offered.

KRAUS-ANDERSON®

Kraus-Anderson Construction Company
206 Beltrami Avenue NW, Bemidji, MN 56601

September 16, 2024

Mr. Tom Barry
County Administrator
701 Minnesota Ave. NW Suite 200
Bemidji, MN 56601

RE: Beltrami County Jail Project
Special Testing & Inspections Services
Proposals Award Recommendation

Dear Mr. Barry,

Per our previous discussions, we have requested proposals for state code required Special Testing & Inspections services for the above referenced project, on behalf of Beltrami County. The selected firm should be considered an independent 3rd party, and hired directly by Beltrami County.

Four qualified firms were solicited, of which three responses were received as follows:

1.	**American Engineering Testing, Inc. (Bemidji, MN)**	**$71,033.00**
2.	Braun Intertec (Hibbing, MN)	$180,133.50
3.	Veteran Testing and Inspecting, LLC (Fargo, ND)	$78,005.00

After our internal review of the proposals received, it is our **recommendation to award the required services to American Engineering Testing, Inc.,** based on required content of services and best value.

Please advise what the County's next steps would be to issue a formal award and contract. Let us know if you have any questions regarding these proposals or our recommendation.

Sincerely,

Steven Trudeau

Steven Trudeau
Senior Project Manager
Kraus-Anderson Construction Company

Cc: Danielle Reid, Klein McCarthy Architects

Cost Proposal
Beltrami County Corrections Center
Bemidji, MN

Date:
September 13, 2024

Prepared for:

Beltrami County
701 Minnesota Ave NW
Bemidji, MN 56601

September 13, 2024

Beltrami County
701 Minnesota Ave NW
Bemidji, MN 56601

ATTN: Mr. Tom Barry
Tom.Barry@co.beltrami.mn.us

Subject: Fee Proposal – Construction Material Testing Services
Beltrami County Corrections Center
Bemidji, MN

Greetings Tom,

American Engineering Testing (AET) is pleased to submit this proposal and preliminary fee estimate to provide construction material testing services during the Beltrami County Corrections Center project in Bemidji, MN. Our proposal is based on the digital plans, specifications, and addenda provided by Kraus-Anderson Construction Company. In this proposal, we present our understanding of the project, an outline of the scope of services we are to provide, and the fee estimate for our services.

PROJECT INFORMATION

We understand the project, located in Bemidji, Minnesota, consists of new precast building construction with included utilities and parking lot.

We have not received a copy of the construction schedule and have had to make some assumptions as to the anticipated number of visits, duration of each visit, and the anticipated amount of testing. We believe these assumptions are consistent with current construction practices and the project goals. We will coordinate our services with your project representative to provide an efficient application of our services while meeting the requirements of the project plans and specifications.

SCOPE OF SERVICES

AET's Project Manager, Jake Voigt, will provide supervision and technical oversight of our services. Mr. Voigt is responsible for interacting with your designated project representative to coordinate our field observation and laboratory testing services. Staff assignment will be dependent on the nature of the testing required.

Scope of Work

We understand activities on this project will require general construction material testing as well as special inspection services as defined within the most recent IBC. We present below a generalized "scope of services" associated with our involvement on this project.

- Perform engineering observations of excavations for project foundations and execute quality assurance services for evaluation of native soils and engineering fill used in support of project structural elements.

- Perform special inspections of concrete reinforcement, masonry, precast connections, structural steel and post-installed anchors. Such services may include observation to document completed work conforms to appropriate criteria.

- Perform firestopping inspections by an IFC Certified Technician.

- Perform floor flatness/floor levelness testing of project floor slabs where applicable.

- Additional services for non-structural items may include testing of at-grade and exterior concrete, testing of soils placed as backfill and, upon authorization, observation and testing of any exterior pavements.

Technical Management & Reports

Our Project Manager reviews the daily field reports generated by our field staff during construction. Items found in non-compliance with the project requirements are brought to the immediate attention of the construction superintendent for correction.

We have assumed that our standard invoicing format issued on a monthly basis with no supporting documentation will be acceptable for this project. If supporting documentation or specialized invoicing is required, additional administrative time may be required to accommodate your request.

ESTIMATED FEES

Our services will be provided on a unit cost basis according to the unit rates provided in the attached AET Fee Estimate tabulation. These rates will remain in effect through the duration of the project. Our monthly invoices will be determined by multiplying the number of personnel hours or tests by their respective unit rates. We have also estimated a total cost we anticipate will be required to complete the previously described observations and testing services. This estimated total cost is based on our experience with similar projects and construction schedule.

We caution that this is only an estimated cost. Often, variations in the overall cost of the services occur due to reasons beyond our control, such as construction change orders, weather delays, changes in the contractor's schedule, unforeseen conditions or retesting of services. These variations will affect the actual invoice totals, either increasing or decreasing our total costs for the project from those estimated in this proposal. If more time or tests are required, additional fees may be needed to complete the project testing services. If less time or tests are needed, a cost savings will be realized. We will not, however, exceed the estimated total cost for the project without first obtaining your authorization.

TERMS AND CONDITIONS

All AET Services are provided subject to the Terms and Conditions set forth in the enclosed Construction Service Agreement—Terms and Conditions, which, upon acceptance of this proposal, are binding upon you as the Client requesting Services, and your successors, assignees, joint venturers, and third-party beneficiaries. Please be advised that additional insured status is granted only upon written acceptance of the proposal.

ACCEPTANCE

AET requests written acceptance of this proposal in the Proposal Acceptance box below, but the following actions shall constitute your acceptance of this proposal together with the Terms and Conditions: 1) issuing an authorizing purchase order for any of the Services described in this proposal, 2) authorizing AET's presence on site, or 3) written or electronic notification for AET to proceed with any of the Services described in this proposal. Please indicate your acceptance of this proposal by signing below and returning a copy to us. When you accept this proposal, you represent that you are authorized to accept on behalf of the Client.

GENERAL REMARKS

AET appreciates the opportunity to provide this service for you and looks forward to working with you on this project. If you have any questions or need additional information, please contact us.

Sincerely,
American Engineering Testing, Inc.

Jake Voigt, PE
Engineer III

Seth Misialek
Field Engineer

ACCEPTANCE AND AUTHORIZATION: AET Proposal No. P-0034403

SIGNATURE:_____

PRINTED NAME:_____

COMPANY:_____

ADDRESS: _____

PHONE NUMBER AND EMAIL:_____

DATE:_____

INVOICING INFORMATION (Provide Company AP Department Information, if present.)

AP CONTACT NAME:_____

BILLING/MAILING ADDRESS:_____

AP PHONE NUMBER AND INVOICE EMAIL:_____

P.O. NO./ PROJECT NO.: _____

Attachments: AET Fee Estimate
Construction Service Agreement – Terms and Conditions
Certificate of Insurance/W9

PROJECT TESTING SERVICES FEE SCHEDULE

Beltrami County Corrections Center
Bemidji, MN
AET PROPOSAL No. P-0034403

AMERICAN ENGINEERING TESTING

SERVICE DESCRIPTION	PROJECT BUDGET ESTIMATED UNITS		UNIT RATE	BUDGET AMOUNT
Excavation Observations & Compaction Testing				
Excavation Observations - Engineer I for observations of excavations, consultation and report preparation.	6	Hour	$145.00	$870.00
Soil Density Testing - Technician II for soil compaction testing and reporting.	42	Hour	$100.00	$4,200.00
Trip Charge to the jobsite.	48	Each	$50.00	$2,400.00
Nuclear Density Test	168	Test	$35.00	$5,880.00
ASTM D698 Standard Proctor	10	Test	$190.00	$1,900.00
ASTM C136 Sieve Analysis of Aggregate (Coarse and Fine)	6	Test	$145.00	$870.00
			Section Subtotal:	**$16,120.00**
Reinforcing Steel Observations & Concrete Testing				
ICC Reinforcing Steel & Concrete Testing - ICC Certified Technician for observations of reinforcing steel and post-installed anchors, consultation and report preparation.	60	Hour	$110.00	$6,600.00
Concrete Testing - Technician I for testing of concrete only - NO OBSERVATIONS OF REINFORCING STEEL.	74	Hour	$100.00	$7,400.00
Trip Charge to the jobsite.	74	Each	$50.00	$3,700.00
ASTM C39 Concrete Compressive Strength - Curing, handling and testing of 4" x 8" concrete test cylinders (includes handling of non-tested cylinders).	370	Test	$30.00	$11,100.00
			Section Subtotal:	**$28,800.00**
Floor Flatness Testing				
Floor Flatness Testing - Technician II to perform field data collection, analysis of data, consultation and report preparation.	12	Hour	$110.00	$1,320.00
Trip Charge to the jobsite.	8	Each	$50.00	$400.00
Rental of Profilograph.	8	Day	$180.00	$1,440.00
			Section Subtotal:	**$3,160.00**
Masonry Observations & Testing				
ICC Masonry & Grout Testing - ICC Certified Technician for observations of masonry construction, sampling of mortar and grout, consultation and report preparation.	15	Hour	$110.00	$1,650.00
Trip Charge to the jobsite.	5	Each	$50.00	$250.00
ASTM C1019 Sampling and Testing Grout - Curing, handling and compressive strength testing of masonry grout test "prism" specimens (includes handling of non-tested specimens).	20	Test	$60.00	$1,200.00
ASTM C109 Mortar Cube Compression Strength - Curing, handling and compressive strength testing of 2" x 4" mortar test cylinders or 2" cubes (includes handling of non-tested specimens).	30	Test	$32.00	$960.00
ASTM C140 Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units - Compression Strength Test	6	Each	$268.00	$1,608.00
			Section Subtotal:	**$5,668.00**
Non-Destructive Testing (NDT) Observations				
Structural Steel Observations - Level II ICC/CWI Technician for observations of precast connections, structural steel field welded and bolted connections, consultation and report preparation.	15	Hour	$110.00	$1,650.00
Trip Charge to the jobsite.	10	Each	$300.00	$3,000.00
			Section Subtotal:	**$4,650.00**
Firestop Material Observations				
Firestop Observations - IFC Certified Technician for attending meetings, consultation and report preparation.	15	Hour	$116.00	$1,740.00
Trip Charge 2	5	Each	$300.00	$1,500.00
			Section Subtotal:	**$3,240.00**

PROJECT TESTING SERVICES FEE SCHEDULE

Beltrami County Corrections Center
Bemidji, MN
AET PROPOSAL No. P-0034403

AMERICAN ENGINEERING TESTING

SERVICE DESCRIPTION		PROJECT BUDGET		
	ESTIMATED UNITS		UNIT RATE	BUDGET AMOUNT
Bituminous Observations & Testing				
Roll Pattern Testing/Sampling - Technician II for observations of bituminous placement and obtaining samples for laboratory testing.	3	Hour	$110.00	$330.00
Trip charge to the jobsite.	3	Each	$50.00	$150.00
Gyratory Mix Properties (MnDOT Suite of Tests) of bituminous; including Asphalt Extraction and Aggregate Gradation tests, Rice Specific Gravity test, and Gyratory Density test.	3	Test	$625.00	$1,875.00
			Section Subtotal:	**$2,355.00**
Project Management & Coordination				
Project Management - Engineer II/Project Manager for coordination of AET personnel and activities, attending meetings (if requested), consultation and report preparation.	32	Hour	$180.00	$5,760.00
Project Administrator for report preparation, review, invoicing.	16	Hour	$80.00	$1,280.00
Travel	75	Hour	$0.00	$0.00
			Section Subtotal:	**$7,040.00**
			ESTIMATED BUDGET	**$71,033.00**

SECTION 1 - RESPONSIBILITIES

1.1 – This Service Agreement – Terms and Conditions ("terms and conditions") is applicable to all services ("Services") provided by American Engineering Testing, Inc. (AET). As used herein "Services" refer to the scope of Services described in the proposal submitted by AET to Client. The proposal, these terms and conditions and any appendices attached hereto shall comprise the agreement ("Agreement") between AET and Client for Services described in the proposal and are binding upon the Client, its successors, assignees, joint ventures and third-party beneficiaries. **AET requests written acceptance of the Agreement, but the following actions shall also constitute Client's acceptance of the Agreement: 1) issuing an authorizing purchase order, task order, service order, or any other documentation for any of the Services, 2) authorizing AET's presence on site, or 3) written or electronic notification for AET to proceed with any of the Services. Issuance of a purchase order, task order or service order by Client which contains separate terms and conditions will not take precedence or modify the terms and conditions contained in this Service Agreement AND THE TERMS AND CONDITIONS OF THIS SERVICE AGREEMENT AND ANY CORRESPONDING PROPOSAL ISSUED BY AET SHALL GOVERN UNLESS AUTHORIZED IN WRITING IN ADVANCE BY AET.**

1.2 - Prior to AET performing Services, Client will provide AET with all information that may affect the cost, progress, safety and performance of the Services. This includes, but is not limited to, information on proposed and existing construction, all pertinent sections of contracts between Client and their client and/or Owner which contain flow-down provisions to AET, if they are included, site safety plans or other documents which may control or affect AET's Services. If new information becomes available or changes are made during AET's Services, Client will provide such information to AET in a timely manner. Failure of Client to timely notify AET of changes to the project including, but not limited to, location, elevation, loading, or configuration of the structure or improvement will constitute a release of any liability of AET. Client will provide a representative for timely answers to project-related questions by AET.

1.3 - AET observes and tests earthwork and other construction operations and materials, and may provide opinions, conclusions and recommendations regarding the same. However, AET's Services do not relieve the contractors of their contractual responsibility to perform their work in accordance with approved plans, specifications and building code requirements.

1.4 - AET personnel do not have authority to accept, reject, direct or otherwise approve the work of the contractor. AET cannot stop work or waive or alter the requirements of the project documents. Any authority given to AET by Client must be in writing prior to the start of Services.

1.5 - AET does not perform construction management, general contracting or surveying services and our involvement with the project does not constitute any assumption of those responsibilities.

1.6 - Services performed by AET often include sampling at specific locations. Client acknowledges the limitations inherent in sampling. Variations in conditions occur between and beyond sampled/tested locations. The passage of time, natural occurrences and direct or indirect human activities at the site or distant from it may alter the actual conditions. Client assumes all risks associated with such variations.

1.7 - AET is not responsible for interpretations or modifications of AET's recommendations by other persons.

1.8 - Should change in conditions be alleged, Client agrees to notify AET before evidence of alleged change is no longer accessible for evaluation.

1.9 - Test borings and/or cone penetration test soundings to a proper depth below foundation grade and the base of suitable bearing soils are recommended to explore the deeper unseen soil and ground water conditions. Judgments made by AET personnel regarding the suitability of materials and ground water conditions below the bottom of an excavation are limited if sufficiently deep test borings/soundings are not provided by the Client prior to our observations and judgments. AET's opinions, conclusions and recommendations are qualified to that extent.

1.10 – Pricing in the proposal assumes use of these terms and conditions. AET reserves the right to amend pricing if Client requests modifications to the Agreement or use of Client's alternate contract format. Any contract amendments made after Client has authorized the Services shall be applicable only to Services performed after the effective date of such amendment. The proposal and these terms and conditions, including terms of payment, shall apply to all Services performed prior to the effective date of such amendment.

1.11 – The AET proposal accompanying these terms and conditions is valid for thirty (30) days after the proposal issuance date to the Client. Any attempt to authorize Services after the expiration date is subject to AET's right to revise the proposal as necessary.

SECTION 2 – ON CALL SERVICES

2.1 - If AET's Services are performed on an on-call basis at the direction of the Client or its authorized representatives, Client acknowledges the inherent limitations associated with performing engineering judgments and testing Services on an on-call basis, including without limitation, the inability to completely evaluate, document or judge work and conditions not directly observed or tested by AET. AET's opinions, conclusions, and recommendations are qualified to the extent of those limitations.

2.2 - Density tests of fill soils represent conditions only at the locations and elevations tested and do not necessarily represent conditions laterally, above or below. AET can only provide judgments regarding the engineered fill system to adequately support the design construction loadings by monitoring the filling process on a continuous basis for consistency of soil type, moisture content, lift thickness, and compaction effort.

2.3 – AET requires a minimum of 24 hours' notice of the need for Services. AET will not be liable for claims, damages, or delays related to failure of Client to provide adequate advance notice to AET.

SECTION 3 - SITE ACCESS, UNDERGROUND FACILITIES AND CONSTRUCTION STAKING

3.1 - Client will furnish AET safe and legal site access.

3.2 – With the exception of public utilities which AET will contact state "call before you dig" notification centers (e.g. Gopher State One call in Minnesota), Client will mark or cause to be marked the location of all other underground utilities and structures (Facilities) that service or are located on the site. AET shall be entitled to rely upon the accuracy of all location information supplied by any source.

3.3 – Client shall hold harmless, indemnify and defend AET from all claims, damages, losses, fines, penalties and expenses (including attorney's fees) arising out of or related to the following: a) Facilities that are not shown or vary from the locations shown on any plans or drawings, b) Facilities that are not located by or vary from the locations marked by Client, governmental or quasi-governmental locator programs, or private utility locating services, or c) any other Facilities that are not disclosed or vary from locations provided by the Client. The obligation to defend AET shall be independent of the obligation to indemnify and hold harmless AET and shall be with independent counsel acceptable to AET.

3.4 - The location and elevation of a proposed structure or facility shall be staked (with offsets) and controlled by surveying or GPS equipment by others. AET's measurements are made in relation to that information. The reliability of any opinions, conclusions, and recommendations based on those measurements is strictly dependent on the accuracy of the staking or GPS information provided by others.

3.5 - During construction, observations and testing Services are based on the positioning of the formwork by the contractor or its subcontractor. AET will not be responsible for any errors or damages resulting from improper location or positioning of the formwork.

SECTION 4 - SAFETY

4.1 - Client shall inform AET of any known or suspected hazardous materials or unsafe conditions at the site. Client or its authorized representative(s) is responsible for the safety of the jobsite. If, during the course of AET's Services, such materials or conditions are discovered, AET reserves the right to take measures to protect AET personnel and equipment or to immediately terminate Services. Client shall be responsible for payment of such additional protection costs.

4.2 - AET shall only be responsible for safety of AET employees at the site; the safety of all others shall be Client's or other persons' responsibility.

SECTION 5 - SAMPLES

5.1 - Client shall inform AET of any known or suspected hazardous materials prior to submittal to AET. All samples obtained by or submitted to AET remain the property of the Client during and after the Services. Any known or suspected hazardous material samples will be returned to the Client at AET's discretion.

5.2 - Non-hazardous samples will be held for thirty (30) days and then discarded unless, within thirty (30) days of the report date, the Client requests in writing that AET store or ship the samples. Storage and shipping costs shall be borne solely by Client.

SECTION 6 - PROJECT RECORDS

The project records prepared by AET will be considered property of the County. These records are subject to MN Open Records Law.

SECTION 7 - STANDARD OF CARE

AET performs its Services consistent with the level of care and skill normally performed by other firms in the profession at the time of this service and in this geographic area, under similar budgetary constraints.

SECTION 8 - INSURANCE

AET maintains insurance with coverage and minimum limits shown below. AET will furnish certificates of insurance to Client upon request.

8.1 –

Workers' Compensation	Statutory Limits
Employer's Liability	$100,000 each accident $500,000 disease policy limit $100,000 disease each employee
Commercial General Liability	$1,000,000 each occurrence $1,000,000 aggregate
Automobile Liability	$1,000,000 each accident
Professional/Pollution Liability Insurance	$1,000,000 per claim $1,000,000 aggregate

8.2 - Commercial General Liability insurance will include coverage for Products/Completed Operations extending one (1) year after completion of AET's Services as outlined in our proposal, Property Damage, Personal Injury, and Contractual Liability coverage applicable to AET's indemnity obligations under this Agreement.

8.3 - Automobile Liability insurance shall include coverage for all owned, hired and non-owned automobiles.

8.4 - Professional/Pollution Liability Insurance is written on a claims-made basis and coverage will be maintained for one (1) year after completion of AET's Services as outlined in our proposal. Renewal policies during this period shall maintain the same retroactive date.

8.5 - **To the extent permitted by applicable state law, and upon Client's signing of the proposal, which includes these Terms and Conditions, and return of the same to AET, or Client provided forms of acceptance as defined in Section 1.1; Client and Owner shall be named an "additional insured" on AET's Commercial General Liability Policy (Form CG D4 14, which includes blanket coverage for the Additional Insured on a Primary and Non-Contributory basis). Client and Owner shall also be named an "additional insured" on a Primary and Non-contributory basis on AET's Automobile Liability Policy (Form CA T4 74). Any other endorsement, coverage or policy requirement may result in additional charges.**

8.6 - AET will maintain insurance coverage required by this Agreement at its sole expense, provided such insurance is reasonably available, with insurance carriers licensed to do business in the state in which the project is located and having a current A.M. Best rating of no less than A minus (A-). Such insurance shall provide for thirty (30) days prior written notice to Client for notice of cancellation or material limitations for the policy or ten (10) days' notice for non-payment of premium.

8.7 - AET reserves the right to charge Client for AET's costs for additional coverage requirements unknown on the date of the proposal, e.g., coverage limits or policy modification including waiver of subrogation, additional insured endorsements and other project specific requirements.

SECTION 9 - DELAYS

If delays to AET's Services are caused by Client or Owner, other parties, strikes, natural causes, pandemic, weather, or other items beyond AET's control, a reasonable time extension for performance of the Services shall be granted, and AET shall receive an equitable fee adjustment.

SECTION 10 - PAYMENT, INTEREST AND BREACH

10.1 - Invoices are due net thirty (30) days from the date of receipt of an undisputed invoice. Invoices will be paid without reductions for bond or retention. Client will inform AET of invoice questions or disagreements within fifteen (15) days of invoice date; unless so informed, invoices are deemed correct.

10.2 – Invoices remaining unpaid for sixty (60) days shall constitute a material breach of this Agreement, permitting AET, in its sole discretion and without limiting any other legal or equitable remedies for such breach, to terminate performance of this Agreement and be relieved of any associated duties to the Client or other persons. Further, AET may withhold from Client data and reports in AET's possession. If Client fails to cure such breach, all reports associated with the unpaid invoices shall immediately upon demand be returned to AET and Client may neither use nor rely upon such reports or the Services.

10.3 – AET reserves the right to pursue any unpaid invoice utilizing available remedies at law. AET explicitly reserves its Mechanic Lien or Bond Claim rights for nonpayment of an undisputed invoice. Client is responsible for paying AET expenses and attorney fees related to collection of past due invoices.

10.4 – AET reserves the right to charge a 2.5% fee on any payment made using a credit card or debit card.

SECTION 11 - CHANGE ORDERS

AET's proposal associated with this project may provide an estimated cost for the work. If the proposal amount is a time and material estimate, or if changes occur affecting the project scope, estimated quantities, project schedule or other unforeseen conditions, AET will communicate with Client and request a change order. However, nothing in this agreement shall be construed in any way as a waiver of payment by Client to AET for Services authorized under this agreement. Approval of a change order may be in writing, by electronic communication, or any directive for additional Services.

SECTION 12 - MEDIATION

12.1 - Except for enforcement of AET's rights to payment for Services rendered or to assert and/or enforce its lien rights, including without limitation assertion and enforcement of mechanic's lien rights and foreclosure of the same, Client and AET agree that any claim, dispute or other matter in question arising out of or related to this Agreement shall be subject to mediation as a condition precedent to arbitration or the institution of legal or equitable proceedings by either party; provided however that if either party fails to respond to a request for mediation within sixty (60) days, the party requesting mediation may without further notice, proceed to arbitration or the institution of legal or equitable proceedings.

12.2 - Mediation shall be in accordance with the Construction Industry Mediation Rules of the American Arbitration Association. Request for mediation shall be in writing and the parties shall share the mediator's fee and any filing fees equally and each party shall pay their own legal fees. The mediator shall be acceptable to both parties and shall have experience in commercial construction matters.

SECTION 13 - LITIGATION REIMBURSEMENT

Except for matters relating to non-payment of fees, which is governed by Section 10 hereof, payment of attorney's fees and costs associated with lawsuits or arbitration of disputes between AET and Client, which are dismissed or are judged substantially in either party's favor, shall be paid by the non-prevailing party. Applicable costs include, but are not limited to, attorney and expert witness fees, court costs, and other direct costs.

SECTION 14 - MUTUAL INDEMNIFICATION

14.1 - Subject to the limitations contained in Sections 14 and 17, AET agrees to indemnify Client from and against damages and costs to the extent caused by AET's negligent performance of the Services.

14.2 - Client agrees to indemnify AET from and against damages and costs to the extent caused by the intentional acts or negligence of the Client, Owner, Client's contractors and subcontractors or other third parties.

14.3 - If Client has an indemnity agreement with other persons or entities relating to the project for which AET's Services are performed, the Client shall include AET as an Additional Insured.

14.4 - AET's indemnification to the Client, including any indemnity required or implied by law, is limited solely to losses or damages caused by its failure to meet the standard of care and only to the extent of its negligence.

SECTION 15 - NON-SOLICITATION

Each party to this Agreement (a "Party") agrees that it will not encourage, induce, or actively solicit any employee of the other party to leave their employment for any reason, provided that neither Party is precluded from (a) hiring any such employee who has been terminated by a Party or its subsidiaries prior to commencement of employment discussions between a Party and such employee, or (b) soliciting any such employee by means of a general advertisement or through an employment agency that does not specifically pursue the employee, or (c) hiring employees or former employees of the other Party who contact the Party on its own accord. This Non-Solicitation provision shall be effective and enforceable for six (6) months following termination of this Agreement.

SECTION 16- MUTUAL WAIVER OF CONSEQUENTIAL DAMAGES

Except as specifically set forth herein and to the extent permitted by applicable law, Client and AET waive against each other, and each other's officers, directors, members, subcontractor, agents, assigns, successors, partners, and employees any and all claims for or entitlement to special, incidental, indirect, punitive, or consequential damages arising out of, resulting from, or in any way related to the Services provided by AET under this Agreement. This mutual waiver of consequential damages includes, but is not limited to, the following: loss of profits; loss of revenue; rental costs/expenses incurred; loss of income; loss of use of property, equipment, materials or services; loss of opportunity; loss of rent; loss of good will; loss of financing; loss of credit; diminution of value; loss of business and reputation; loss of management or employee productivity or the services of such persons; increased financing costs; cost of substitute facilities; cost of substitute goods/property/equipment; cost of substitute services; and/or cost of capital. This mutual waiver is applicable, without limitation,

to all consequential damages due to either party's termination of this Agreement in accordance with the provisions of the Agreement and related documents and shall survive any such termination.

SECTION 17 - LIMITATION OF LIABILITY

To the fullest extent permitted by applicable law, the total aggregate liability of AET and its officers, directors, partners, employees, subcontractors, agents, and sub-consultants, to Client and/or Client's employees, officers, directors, members, agents, assigns, successors, or partners, or anyone claiming through Client, for any and all injuries, damages, claims, losses, or expenses (including attorney's fees and costs) arising out of, resulting from or in any way related to Services provided by *AET* from any cause or causes, including, but not limited to, its negligence, professional errors and omissions, strict liability, breach of contract, or breach of warranty shall not exceed the total compensation in excess of costs received by AET for Services or $50,000, whichever is less. The limitation of liability set forth herein does not apply to claims arising solely out of or related to the willful or intentional acts of AET.

SECTION 18 - POSTING OF NOTICES ON EMPLOYEE RIGHTS

Effective June 21, 2010, prime contracts with a value of $100,000 or more and signed by federal contractors on projects with any agency of the United States government must comply with 29 CFR Part 471, which requires physical posting of a notice to employees of their rights under Federal labor laws. The required notice may be found at *29 Code of Federal Regulations Part 471, Appendix A to Subpart A*. The regulation also has a "flow-down" requirement for subcontractors under the prime agreement for subcontracts with a value of $10,000 or more. AET requires strict compliance of its subcontractors working on federal contracts subject to this regulation. The regulation has specific requirements for location of posting and language(s) for the poster.

SECTION 19 - TERMINATION

After 7 days' written notice, either party may elect to terminate work for justifiable reasons. In this event, the Client shall pay AET for all Services performed, including demobilization and reporting costs to complete the Services.

SECTION 20 - SEVERABILITY

Any provisions of this Agreement later held to violate a law or regulation shall be deemed void, and all remaining provisions shall continue in force. However, Client and AET will in good faith attempt to replace an invalid or unenforceable provision with one that is valid and enforceable, and which comes as close as possible to expressing the intent of the original provision.

SECTION 21 - GOVERNING LAW

This Agreement shall be construed in accordance with the Laws of the State of Minnesota without regard to its conflicts of law provisions.

SECTION 22 - ENTIRE AGREEMENT

This Agreement, including these terms and conditions and attached proposal and appendices, is the entire agreement between AET and Client. Regardless of method of acceptance of this Agreement by the Client, this Agreement supersedes any written or oral agreements, including purchase/work orders or other Client agreements submitted to AET after the start of our Services. Any modifications to this Agreement must be mutually acceptable to both parties and accepted in writing. No considerations will be given to revisions to AET's terms and conditions or alternate contract format submitted by the Client as a condition for payment of AET's accrued Services.

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ **Go to *www.irs.gov/FormW9* for instructions and the latest information.**

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
AMERICAN ENGINEERING TESTING, INC.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☑ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
550 CLEVELAND AVENUE NORTH

Requester's name and address (optional)

6 City, state, and ZIP code
ST. PAUL, MN 55114

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number
			–			–				

or

Employer identification number
4	1	–	0	9	7	7	5	2	1

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here | **Signature of U.S. person** ▶ [signature] | **Date** ▶ 1/1/24

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

AMERCON-12 KREYNOLDS1

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/11/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER License # 20443386 HUB International Great Plains, LLC 245 E. Roselawn Avenue Suite 31 Saint Paul, MN 55117-1940	CONTACT NAME: Ann Ross PHONE (A/C, No, Ext): (651) 288-5137 FAX (A/C, No): (651) 286-0560 E-MAIL ADDRESS: ann.ross@hubinternational.com
INSURED AMERICAN CONSULTING SERVICES INC AMERICAN ENGINEERING TESTING INC AMERICAN PETROGRAPHIC SERVICES INC 550 CLEVELAND AVE N ST PAUL, MN 55114-1804	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : The Phoenix Insurance Company — 25623 INSURER B : The Travelers Indemnity Company of America — 25666 INSURER C : Travelers Property Casualty Company of America — 25674 INSURER D : Charter Oak Fire Insurance Company — 25615 INSURER E : Continental Casualty Company — 20443 INSURER F :

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT X LOC OTHER:			P630539K8896PHX24	1/1/2024	1/1/2025	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 1,000,000 $ 25,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS HIRED AUTOS ONLY NON-OWNED AUTOS ONLY			8102L6457122443G	1/1/2024	1/1/2025	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 2,000,000 $ $ $
C	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 0			CUP3K2260092443	1/1/2024	1/1/2025	EACH OCCURRENCE AGGREGATE	$ 15,000,000 $ 15,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		UB9H9151012443G	1/1/2024	1/1/2025	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
E	PROF/POLL LIABILITY			ECH254066939	1/1/2024	1/1/2025	EACH CLAIM	10,000,000
E	RETRO: 070287			ECH254066939	1/1/2024	1/1/2025	AGGREGATE	15,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
RENEWALS: contracts@teamAET.com

ILLUSTRATION ONLY

CERTIFICATE HOLDER

ILLUSTRATION CERTIFICATE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

J. Craig McNally

Trudeau, Steven

From: Erickson, Susie <susie.erickson@krausanderson.com>
Sent: Wednesday, August 21, 2024 2:45 PM
To: Trudeau, Steven
Cc: Weerts, Pat
Subject: Beltrami County Jail Structural Testing & Special Inspections Request for Proposals
Attachments: Mimecast Large File Send Instructions

I'm using Mimecast to share large files with you. Please see the attached instructions.

Good Afternoon - Beltrami County, MN is presently soliciting proposals for professional construction testing services related to their upcoming new 243 bed Jail Facility to be located at 815 Pioneer Street SE, Bemidji, MN 56601. The new facility will be primarily precast concrete and steel construction, 96,935 gsf.

Kraus-Anderson Construction Company has been hired as Construction Manager at Risk, and Klein McCarthy & Co., Architects has been hired as the architect.

Construction is anticipated to commence April, 2025 and be complete in February, 2027. Estimated construction cost is $68,400,000. Attached is a preliminary SI form from the Structural Engineer of Record, Paulson & Clark Engineering. Feel free to reach out to Troy Such, P.E. (M: 763-438-9784 D: 651-287-7510, tsuch@paulsonclark.com with any specific structural questions you may have, or myself (Steve Trudeau M: 218-766-5998) for any general questions, in preparing your proposal for Testing and Special Inspection services required.

We are requesting proposals to be emailed to myself at steven.trudeau@krausanderson.com by **Noon this coming Monday 8/26/24**. We look forward to receiving your proposal.

Thank you!

Steven Trudeau | Senior Project Manager
steven.trudeau@krausanderson.com

KRAUS-ANDERSON CONSTRUCTION COMPANY
206 Beltrami Avenue NW, Bemidji, MN 56601
mobile 218.766.5998 | **krausanderson.com**

Together, strengthening the communities we serve

Via

Susie Erickson | Senior Project Coordinator | LEED Green Associate
susie.erickson@krausanderson.com | direct 218.333.6573

KRAUS-ANDERSON CONSTRUCTION COMPANY
206 Beltrami Avenue NW, Bemidji, MN 56601
Office 218.759.0596 | **krausanderson.com**

Minnesota Department of Labor and Industry
Construction Codes and Licensing Division
Building Plan Review/Inspections
443 Lafayette Road North
St. Paul, MN 55155
Phone: (651) 284-5068
Fax: (651) 284-5749
www.dli.mn.gov

DEPARTMENT OF LABOR AND INDUSTRY

Special Inspections and Testing Program Summary Schedule

PRINT IN INK or TYPE your responses.

PROJECT NAME	PROJECT NO.
Beltrami County Adult Corrections Center	
LOCATION	PERMIT NO.
Bemidji, MN 56601	

Technical (2)		Description (3)	Type of Inspector (4)	Specific Report Frequency (5)	Assigned Firm (6)
Section	Article				
Sheet S0.1	Soils Table	Soils Material Testing	SI-Tech I	Weekly	
Sheet S0.1	Concrete Table	Conc. Reinforcing Insp.	SI-Tech I	Each Pour	
Sheet S0.1	Concrete Table	Cast-In-Place Conc. Testing	SI-Tech I	Daily	
Sheet S0.1	Concrete Table	Cast-In-Place Conc. Insp.	SI-Tech I	Each Pour	
Sheet S0.1	Concrete Table	Precast Conc. Insp.	SI-Tech I	Weekly	
Sheet S0.1	Masonry Table	Unit Masonry Insp.	SI-Tech I	Daily	
Sheet S0.1	Masonry Table	Unit Masonry Testing	SI-Tech I	Weekly	
Sheet S0.1	Steel Table	Struct. Steel Shop Fabrication	SI-Tech I	Final Report	
Sheet S0.1	Steel Table	Struct. Steel Bolting & Welding Insp.	SI-Tech I	Weekly	
Sheet S0.1	Cold Formed	Cold Formed Metal Insp.	SI-Tech I	Weekly	
Sheet S0.1	Special Cases	Post Installed Anchors in Conc.	SI-Tech I	Daily	
Spec 07 8400	3.04	Fire-Resistant Penetrations & Joint Insp	SI-Tech I	Each Insp.	

Note: **This schedule shall be filled out and included in a Special Structural Testing and Inspection Program.**
(If not otherwise specified, assumed program will be "Guidelines for Special Inspection & Testing" as contained in the State Building Code and as modified by the state adopted IBC.)
A complete specification-ready program can be downloaded directly by visiting CASE/MN at www.cecm.org

(1) Permit No. to be provided by the Building Official
(2) Referenced to the specific technical scope section in the program.
(3) Use descriptions per IBC Chap 17, as adopted by MN State Bldg Code.
(4) Special Inspector – Technical (SIT); Special Inspector – Structural (SIS)
(5) Weekly, monthly, per test/inspection, per floor, etc.
(6) Name of Firm contracted to perform services.

ACKNOWLEDGEMENTS (Each appropriate representative shall sign below)

Owner: _____ Firm: _____ Date: _____

Contractor: _____ Firm: _____ Date: _____

Architect: _____ Firm: Klein McCarthy Architects Date: _____

SER: _____ Firm: Paulson & Clark Engineering Date: _____

SI-T _____ Firm: _____ Date: _____

SI-S: _____ Firm: _____ Date: _____

TA: _____ Firm: _____ Date: _____

F: _____ Firm: _____ Date: _____

If requested by engineer/architect of record or building official, the individual names of all prospective special inspectors and the work they intend to observe shall be identified as an attachment.

Legend: SER = Structural Engineer of Record SI-T = Special Inspector - Technical TA = Testing Agency SI-S = Special Inspector - Structural F = Fabricator

Accepted for the Building Department By_____ Date_____

This material

EXISTING CONDITIONS

The contractor shall field verify all existing conditions, such as dimensions, elevations, configuration, and details of existing structures and conditions where they affect new construction. Notify engineer immediately if any deviations from anticipated conditions are discovered.

COORDINATION W/COMPLETE SET OF CONTRACT DOCUMENTS

The Contract Documents are one complete, comprehensive and inclusive document consisting of the aggregate collection of drawings and specifications for all of the disciplines' divisions (e.g. site, civil, architectural, structural, mechanical, plumbing, electrical, etc.). No single discipline division is autonomous nor does it stand-alone from any or all other discipline divisions. Contact the construction manager with questions pertaining to any future bid package #3 work that needs to be accomodated with the current work scope.

Verify all dimensions, elevations, depressions, inserts, embedded items, equipment pads and supports, openings, details, and conditions by cross-referencing to architectural and all other discipline section drawings, particularly civil, mechanical, and electrical sections.

See architectural and all other discipline section drawings for dimensions not shown on structural drawings.

Structural drawings do not show all required openings through structural members. Verify size and location of all openings with architectural and all other discipline section drawings.

DESIGN CODES AND STANDARDS

2020 Minnesota State Building Code

2018 International Building Code

All Reference Standards below are per Chapter 35 of the 2020 Minnesota State Building Code

Building Code Requirements for Structural Concrete (ACI 318)

Building Code for Masonry Structures (TMS 402)

Specification for Structural Steel Buildings (AISC 360)

AISC Code of Standard Practice for Buildings & Bridges (AISC S303)

Structural Welding Code (D1.4)

Steel Deck Institute - Standard for Non-Composite Steel Floor Deck, Steel Roof Deck, and Composite Floor Deck Slabs

Design Manual for Composite Decks, Form Decks, Roof Decks and Cellular Deck Floor Systems with Electrical Distribution (SDI (DM))

North American Specifications for the Design of Cold-Formed Steel Structural Members (AISI S100)

DESIGN STRESSES

Concrete (f'c)	All Concrete,	See "CONCRETE MATERIALS & MIX DESIGN" Section Below
Anchor Bolt Steel (Fy)	Bolt Diameters up to 1" Diameter	ASTM F1554 Grade 36
Conc Reinforcing Steel (Fy)	60,000 psi (ASTM A615 Grade 60) 60,000 psi (ASTM A706, Grade 60-weldable)	
Structural Steel (Fy)	WF Shapes Misc Shapes/Plates Structural Tubes Pipe Columns	ASTM A992/A572 (50 ksi) ASTM A36 (36 ksi) ASTM A500 Gr B (46 ksi) ASTM A53 Type E-Grade B (35 ksi)

DESIGN LIVE LOADS

Floors (loads reducible uno)	Cell Housing Floors	50	psf
	Public Areas/Lobbies	100	psf
	Stairs & Exit Corridors	100	psf
	Mechanical Rooms	125	psf (non-reducible)
Roof	Flat roof snow load (Pf)	51	psf (+ drifting & sliding criteria)
	Ground snow load (Pg)	60	psf
	Snow exposure factor (Ce)	1.0	
	Snow Importance Factor (I)	1.2	
	Thermal Factor (Ct)	1.0	
	Mechanical Rooms	20	psf hanging load (ln add'n to typ load)
Wind	Risk Category	IV	
	Exposure Category	B	
	Ultimate Wind Speed (Vult-3 second gust)	120	mph
	Basic Wind Speed (Vasd-3 second gust)	93	mph
	Internal Pressure Coeff	+/- 0.18	
	Component Wind Pressure	24.6	psf (base pressure)

SOILS INFORMATION

Refer to geotechnical report # P-0024458 dated November 2, 2023 prepared by American Engineering Testing; and all subsequent addendums.

Allowable design bearing pressure = 2,000 psf on native soil or compacted engineered fill.

Soils Engineer to verify that allowable bearing pressure can be achieved prior to placement of concrete at any location.

Soils specified as non-frost susceptible on structural drawings shall be sand containing less than 70% material passing the No. 40 sieve and having less than 5% material passing the No. 200 sieve. Such material should be placed in loose lifts no thicker than 6 inches and mechanically compacted per the Soils Engineer's recommendations.

TEMPORARY BRACING & SHORING OF NEW CONSTRUCTION

The Contractor shall have sole responsibility for determining the means and methods used to properly and adequately temporarily brace the framing during erection and construction.

Provide temporary bracing for all walls (concrete, masonry, light gauge metal, wood) until they are in final form at full design strength.

DEMOLITION

Contractor shall be aware of and verify location of all embedded utilities, conduits, etc. within existing structural members prior to saw cutting or demolition. Notify engineer immediately if any utilities are discovered.

BACKFILLING REQUIREMENTS

Provide temporary lateral support for all walls (except those designated as Cantilevered Retaining Walls) where grade varies each side until connected slabs on grade, floors, or roofs are in final form at full design strength.

Where grade varies on each side of a wall backfill both sides evenly to the lower elevation.

Do not temporarily brace the top of Cantilever Retaining Walls during backfilling operations.

Backfill Cantilever Retaining Walls fully seven days prior to connecting items to wall or constructing items above.

SITEWORK AND EXCAVATIONS

Contractor shall be aware of and verify location of all underground utilities, tanks, etc. prior to excavation. Refer to civil and site divisions for known information.

Due care shall be exercised during excavation such that existing utilities are not damaged or disturbed.

Any broken or damaged utilities shall be repaired or replaced by the contractor responsible for the damage.

CONCRETE - GENERAL ITEMS

Use ASTM C150 Type I Portland Cement or ASTM C595 Type IL Portland Limestone Cement for all concrete work.

All slab and/or wall openings shall be reinforced with 2-#5 bars each side and diagonally at corners and shall extend 24" beyond said opening, in addition to indicated reinforcing.

All plumbing, heating, and electrical openings not shown on the plans shall be sleeved through slabs and walls (minimum spacing of 3 sleeve diameters on center).

All screeds for structural slabs shall be set to allow for dead load deflections so that the top of slab is at constant elevation. Maintain minimum slab thickness required under all conditions.

All concrete exposed to freeze/thaw or de-icing chemicals (permanently or during construction) shall be air entrained per ACI-301.

Absolutely no holes may be cored at any location in any structural slab, beam, joist, wall, nor column without written permission from the structural engineer.

CONCRETE MATERIALS & MIX DESIGNS

Acquire cement and aggregate from same source for entire project.

Use Materials conforming to the following standards:
Cement: ASTM C150, Type I-Normal Portland type or ASTM C595 Type IL-Portland Limestone Cement
Aggregate: ASTM C33 (Normal Weight)
Aggregate: ASTM C330 (Light Weight)
Fly Ash: ASTM C618, Class C or F
Air Entrainment Admixture: ASTM C260
Chem Admixtures: ASTM C494/C494M/Type A-Water Reducing/Type C-Accelerating/Type G-Water Reducing/High Range/Retarding.
Note: Do not use chemicals that will results in soluble chloride ions in excess of 0.1% by weight of cement.

Mix Designs: 28 Day Strength (psi) / Max Aggregate / Slump / Max W-C Ratio

- Footings:	3,000 / 11/2" / 4"-5" / 0.55
- Columns, Piers & Fnd Walls:	4,000 / 3/4" / 4" / 0.50
- Exterior Concrete:	4,000 / 3/4" / 4" / 0.40
- Interior Slab on Grade:	4,000 / 3/4" / 4" / 0.50
- Topping, Composite Deck:	4,000 / 3/4" / 4" / 0.50
- Topping, Plank & Steel Pans:	3,000 / 3/8" / 4" / 0.55
- CMU Core Fill & Lintels:	3,000 / 3/8" / 8" / 0.60

Notes:
a. Slump noted above is at point of discharge. When superplasticizer is used slump is prior to addition of superplasticizer.
b. Substitution of fly ash for Portland Cement shall not exceed 25% by weight of cement for footings and 20% by weight for other concrete.
c. Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended by manufacturer.
d. Furnish all Exterior Concrete with 6% air content (± 2%).
e. Furnish all topping slabs over precast plank reinforced with 1.5 pounds per cu yard of polypropylene fibers.

CONCRETE REINFORCING

Mechanical connections and fusion splices of reinforcement shall develop 125% of bar yield strength, minimum, unless noted otherwise.

In addition to scheduled reinforcing, add 3 #4 ties (or sets of ties) @ 3" on center at top of all concrete columns, piers or pedestals. Locate one tie within 3" of the bottom of all columns, piers or pedestals.

Splices and embedments of reinforcement shall satisfy development requirements of current ACI-315 and ACI-318 codes. Provide splices by contact lap unless noted otherwise. Where classes of laps are not indicated on drawings, use a Class B tension splice.

Non-continuous ends of top bars in grade beams and mat slabs shall terminate in a standard hook, unless indicated otherwise. Bar lengths indicated do not include length of hook when hook is required.

CONCRETE COVER ON REINFORCING

Footings	3" clear bottom & sides, 2" clear top
Walls	1 1/2" clear each face
Columns, Piers	1 1/2" clear to ties or stirrups
Slab on Grade	In upper 1/3rd of slab
Topping Slabs on Deck	Center in slab above deck
Masonry Walls	Centered in cell unless noted otherwise

FOOTINGS

All footings are centered under walls and/or columns unless indicated otherwise.

Provide 32 bar diameter lap at reinforcing splices and full crossing laps at corners and intersections.

Unless noted, provide #4 @ 12" oc dowels from footings into poured walls. Hook dowels 8" at bottom of footing and project a Class "B" lap splice, or 24" minimum.

Footings for walls not noted shall be 12" thick with a minimum projection of 6" each side (20" minimum), reinforced with 2-#5 continuous. Add 1-#5 continuous for each 12" of width over 24".

Footing elevations shown on plan are to top of footing, uno.

CAST-IN-PLACE CONCRETE WALLS

Where not noted on drawings, reinforce concrete walls 10" and larger with #5 @ 12" oc each face, each way, and 8" walls with #5 @ 12" oc centered in wall.

All reinforced concrete walls shall have inside and outside corner bars and intersection bars with size and spacing to match horizontal wall reinforcing.

Openings 12" and larger in concrete walls shall have 1-#4 x 4'-0" each face diagonal at corners and 2-#5 each face each side of opening extending 2'-0" beyond opening.

Unless noted, wall reinforcing is continuous through integral columns and piers.

CONCRETE SLABS ON GRADE

See sheet S2.0 for control/construction joint typical details.

Control/construction joints must be continuous and not offset.

Control/construction joints shall be placed at columns and be spaced as noted below, unless indicated otherwise:

Exterior slabs	12'-0" oc maximum
Interior slabs	36 times slab thickness, maximum
Interior slabs with carpeting	40 times slab thickness, maximum

Provide isolation diamonds at all columns.

"L" shaped panels and rectangular panels with length/width ratios greater than 1.5 are not allowed.

At all re-entrant corners provide 2-#5 x 4'-0" long diagonal bars on slab center line. Bend as required at obstructions.

Cure concrete slabs to receive special architectural floor finishes in accordance with flooring manufacturers instructions.

CONCRETE TOPPING SLABS ON METAL DECK

Reinforce all topping slabs with 6x6/W1.4xW1.4 WWF, unless noted otherwise.

At all re-entrant corners provide 2-#5 x 4'-0" long diagonal bars on slab center line. Bend as required at obstructions.

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STRUCTURAL PRECAST CONCRETE UNITS

Design of precast members and anchorages shall be prepared and certified by an engineer licensed in the state in which the project is located.

All necessary headers at floor and wall openings shall be designed and furnished by the precast supplier.

Precast members shall sustain the superimposed loads indicated on plan. To determine applicable loads reference architectural and mechanical drawings for locations of corridors, public areas, non-bearing walls, mechanical rooms, equipment pads, and conditions resulting in snow drifting and/or sliding.

Upon installation precast members shall be essentially past the effects of deformation due to creep and shall have camber not over 1/360 of the span. Camber shall be similar and compatible from member to member.

All openings 8" or larger shall be cast-in or cut neatly by the precast manufacturer. Openings smaller than 8" in size shall be field-cored by the general contractor after verification that size and location is acceptable to precast supplier. Coordinate opening locations with architect/engineer prior to placing.

Place openings not shown on plans between webs in precast plank units. Verify acceptability with precast supplier.

Design anchorage of precast concrete wall panels to foundations, floors, roofs, and each other at stairs and corners. Anchorage design shall provide a direct connection capable of resisting lateral shear forces due to wind and soil loadings of not less than 200 pounds per lineal foot of wall.

CONCRETE MASONRY ASSEMBLIES

All concrete masonry units shall be ASTM C-90, Grade N, Type I units.

All mortar shall be Type S, proportioned by volume according to ASTM C270.

All grout shall have 3/8" maximum aggregate size and 8" - 10" slump.

All wall openings shall be reinforced with 2 - #5 bars each side minimum. Reinforcing shall extend full wall height vertically and 2'-0" beyond opening horizontally. Each pair of bars shall be grouted solid in one cell, on an axis perpendicular to the wall. Place full-height reinforcing in the first adjacent full-height core and grout core(s) below lintel bearing solid to footing.

Locate control joints in masonry walls 4'-0" minimum from jambs of openings.

Provide minimum 2-#5 @ 8" oc verticals and matching footing dowels below all beam bearings.

Extend vertical reinforcing from footing to 2" clear of top of wall.

Provide #5 @ 48" oc vertical and footing dowels for all walls on structural drawings, unless indicated otherwise.

Provide 2-#5 continuous with corner bars at all bond beams shown on drawings, unless indicated otherwise.

Splices for vertical and horizontal bars shall lap 48 bar diameters or 24" minimum.

Maximum corefill height is 4'-0" per lift.

When typical vertical wall reinforcing is interrupted by door, window, mechanical, or other wall openings, provide typical vertical wall reinforcing above and below opening, and extend into horizontal bond beams.

Bond beam reinforcement shall be continuous through control joints and at wall corners. Lap reinforcement 48 bar diameters or 24" minimum.

Provide 9 gauge galvanized truss type horizontal joint reinforcement at 16" on center in all interior and exterior masonry walls.

Tooth in new block at all joints of new to existing and grout common cells solid, unless indicated otherwise.

Lay up all masonry units in running bond, unless indicated otherwise on structural drawings.

CONCRETE MASONRY WALL LINTELS

Use lintel blocks at all lintel locations.

Masonry lintels to bear 8" minimum at jambs. Extend reinforcing full length.

Bear all lintel block and bond beams 8" minimum into supporting walls and extend vertical reinforcing through lintel and bond beams.

Where masonry lintel is continuous over two openings with intermediate support reinforce lintel with two bars top and bottom and provide standard hook on top bars at ends.

See sheet S1.2A for CMU lintel schedule and additional information.

STRUCTURAL STEEL

All structural steel shall be fabricated and erected according to latest AISC specifications.

Unless noted, shop connections shall be welded using E70xx electrodes and field connections shall be bolted using minimum 3/4" diameter A325N bolts. Provide twist-off-type tension-control bolts.

All welding shall be performed by AWS certified welders and comply with the AWS Structural Welding Code.

All field welding shall be shown on the steel erection drawings with pre-qualified AWS weld designations.

Use standard framed beam connections - two (2) clip angles shop welded or bolted to beam web and field bolted to steel supporting members with 3/4" minimum diameter A325 bolts unless noted otherwise. Provide calculations sealed by a registered professional engineer in the state in which the project is located. Design connections for the reaction indicated (10 kip minimum) and provide a connection for either the indicated reaction or the minimum connection listed below, whichever is greater. The design shall account for all copes, eccentricities, and allowable stresses per the AISC Manual of Steel Construction. Each connection shall have a minimum of two (2) rows of bolts.

Minimum Bolt Rows	Shape
2	W8, W10
3	W12, W14
4	W16, W18, W21
5	W24
6	W27
7	W30, W33, W36

Temporary erection bolts, clips, hangers, and temporary bracing shall be furnished as required by the steel erector.

Unless noted, all steel shall be cleaned and painted with one coat of primer before leaving the shop. Touch up field splices, connections, welds, and abrasions of steel with touch up shop paint after installation.

Steel to be fireproofed shall not be primed. Coordinate exact requirements with architect.

BOLTS INSTALLED IN CONCRETE

Anchor bolts cast in concrete shall be ASTM F1554 unless indicated otherwise. See design stresses this sheet for steel grades.

Expansion bolts shall be HILTI Kwik Bolt TZ, or approved equal.

Adhesive anchors shall be HILTI HY 200, or approved equal.

Adhesive anchors require special inspection.

Screw anchors shall be HILTI KH-EZ, or approved equal.

COMPOSITE FLOOR DECK

Provide (2) #5 bars on 2 sides of all openings through composite deck larger than 8" and less than 24" in any dimension. Locate rebar perpendicular to deck and chair all bars 1/2" above deck. Extend all bars 2'-0" beyond opening.

Composite deck and accessories shall be galvanized.

Unless noted, weld composite deck to supporting members with 5/8" diameter puddle welds at 12" oc. Fasten sidelaps via welds or screws_at 30" oc maximum.

Provide all closures and accessories for a complete installation.

STEEL ROOF DECK

See 7/S3.2 for connection of steel roof deck to supporting members.

All steel roof deck shall be continuous over three or more supports.

See 8/S3.2 for steel framing greater or equal to 12" in any dimension. Contact engineer for framing for openings larger than 4'-0" x 4'-0".

Roof deck and accessories shall be painted.

LIGHT GAUGE METAL FRAMING

Design Requirements:
The drawings indicate conceptual design for bidding purposes only. Provide complete design, fabrication, delivery, & installation of cold-formed metal framing for this Project for all bearing & exterior walls & soffits. Provide shop drawings showing all member layout, sizes, spacings, gauges, and connections, as well as structural calculations, stamped and signed by a Minnesota licensed Professional Engineer. Reference specification section 05 4000 for specific design requirements related to the exterior cold-formed metal framing system for the Project; including, but not limited to:

a. Lateral and vertical loads to be considered, including torsional effects;
b. Lateral and vertical deflection limitations;
c. Requirements for vertical slip connections of light gauge metal framing relative to the primary building frame;
d. Requirements for full height vertical framing members.

Materials:

Track, channels and accessories	Fy = 33 ksi min
Light gauge metal framing	ASTM A568 & A446, C645.
Galvanized coating	ASTM A525, G60.

Wall studs shall be cold rolled steel, galvanized or aluminized, c- shape, punched for utility access and as noted below:

Exterior walls - Size as required for strength & deflection; minimum16 gauge at16" on center maximum unless noted on drawings. Provide flange size based on design (1 5/8" minimum). Provide horizontal bridging where studs are not sheathed both sides.

Non-load bearing interior walls - As required for strength & deflection; 1-1/2" flange x 20 gauge min at 16" on center, with bridging similar to exterior walls.

Continuous top and bottom runner track for all exterior walls shall be galvanized or aluminized, u-shaped deep leg track, unless noted otherwise.

Track shall be securely anchored to the supporting structure.

At track butt joints, abutting pieces of track shall be securely anchored to a common structural element, or they shall be spliced together.

Light gauge metal framing fasteners (minimum) shall be #10 self tapping sheet metal screws, 15 threads per inch, with low profile head as manufactured by "ITW Buildex" or approved equal. Minimum 2 sheet metal screws per connection, unless noted otherwise.

Temporary bracing for walls shall be furnished by the light gauge metal framing installer and maintained until permanent systems providing lateral stability are in place.

At all openings in exterior walls provide as a minimum 2 studs full wall height each side of opening and a third stud each side for lintel bearing.

Provide headers above openings and design jamb studs for all transferred loads.

Studs shall be plumbed, aligned and securely attached to the flange or webs of both upper and lower tracks.

Studs shall have full bearing against inside track web, prior to stud and track attachment.

All framing components shall be cut squarely for attachment to perpendicular members.

Framing components may be pre-assembled into panels prior to erecting. Prefabricated panels shall be square, with components attached in a manner as to prevent racking.

Erect framing and panels plumb, level and square in accordance with approved shop drawings.

Handling and lifting of prefabricated panels shall be done in a manner which will not cause distortion in any member.

Bridging rows shall be spaced according to the manufacturer's recommendation. Maximum spacing between rows of bridging shall be 5'-0" for wind loaded walls and 3'-4" for axially loaded walls.

Bridging shall be attached in a manner to prevent stud rotation.

NOTES REGARDING USE OF DRAWINGS

Drawing scales are noted for reference only. Not all items are drawn to scale, and drawings should not be scaled to obtain dimensions or elevations not indicated.

Unless specifically indicated, bolts shown in details are for illustrative purposes only and do not represent the actual number of bolts required. See information under STRUCTURAL STEEL for connection design requirements.

SPECIAL STRUCTURAL INSPECTIONS AND TESTING

In accordance with IBC 2018, Chapter 17, Special Structural Tests and Inspections are required for this project, in addition to conventional material testing.

Refer to sheet S0.1 and section 01 4533 of the specifications for applicable requirements and the special inspection program schedule, prepared per the requirements of the IBC. In addition to required inspections, provide the following material testing.

Concrete Testing:

Compressive Strength Tests: ASTM C 39/C 39M. For each test, mold and cure four concrete test cylinders. Obtain test samples for each class of concrete poured each day. One test for the first 25 cubic yards and an additional test for each 100 cubic yards thereafter, or portion thereof. Test one cylinder at seven days, two at 28 days, and store one cylinder for possible further use.

Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.

Perform one slump test for each set of test cylinders taken, following procedures of ASTM C 143/C 143M.

Measure air content and temperature for each concrete test.

The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.

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BELTRAMI COUNTY

BELTRAMI COUNTY ADULT CORRECTIONS CENTER

815 PIONEER STREET SE
BEMIDJI, MN

Architect's Project #: 2312.00

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Print Name: Troy D. Such
License #: 41374
Date: August 1, 2024

BID DOCUMENTS

August 1, 2024

Item	Description	Date

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Key Plan

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STRUCTURAL TITLE SHEET

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STATEMENT OF SPECIAL INSPECTIONS (IBC 1705)	
Special inspections and tests of elements and nonstructural components of buildings and structures shall meet the requirements of IBC Section 1705. The listed special inspections are the minimum required level of inspection unless noted as not required for this project. See General Notes on sheet S0.0 for additional testing requirements Confirm if any local jurisdiction or local building code requires any additional special inspection requirements. Where continuous special inspection is required, the special inspector shall be on site to review the work as it is being performed. Where periodic inspection is required, the special inspector is not required to review the work as it being performed but shall review the specified work on at a reasonable interval to provide adequate observation.	
ITEMS REQUIRING SPECIAL INSPECTION	**REQD**
IBC 1705.1 General	Y
IBC 1705.2 Steel Construction	Y
IBC 1705.3 Concrete Construction	Y
IBC 1705.4 Masonry Construction	Y
IBC 1705.5 Wood Construction	-
IBC 1705.6 Soils	Y
IBC 1705.7 Driven Deep Foundations	-
IBC 1705.8 Cast-in-Place Deep Foundations	-
IBC 1705.9 Helical Pile Foundations	-
IBC 1705.10 Fabricated Items	Y
IBC 1705.11 Special Inspections for Wind Resistance	-
IBC 1705.12 Special Inspections for Seismic Resistance	-
IBC 1705.13 Testing for Seismic Resistance	-

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD[a]	IBC REFERENCE	REQD
1.	Inspect reinforcement, including prestressing tendons, and verify placement.	———	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	Y
2.	Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum 5/16"; and c. Inspect all other welds.	———	X	AWS D1.4 ACI 318: 26.6.4	———	Y
3.	Inspect anchors cast in concrete	———	X	ACI 318: 17.8.2	———	Y
4.	Inspect anchors post-installed in hardened concrete members. [b] a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	———	Y
5.	Verify use of required design mix.	———	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	Y
6.	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	———	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10	
7.	Inspect concrete placement for proper application techniques.	X	———	ACI 318: 26.5	1908.6, 1908.7, 1908.8	Y
8.	Verify maintenance of specified curing temperature and techniques.	———	X	ACI 318: 26.5.3-26.5.5	1908.9	-
9.	Inspect prestressed concrete for: a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons.	X X	——— ———	ACI 318: 26.10	———	-
10.	Inspect erection of precast concrete members.	———	X	ACI 318: 26.9	———	Y
11.	Verify in-situ concrete strength, prior to stressing tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slab.	———	X	ACI 318: 26.11.2	———	-
12.	Inspect formwork for shape, location and dimensions of the concrete member being formed	———	X	ACI 318: 26.11.1.2 (b)	———	-

a. Where applicable, See Section 1705.12, Special inspections for seismic resistance
b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

REQUIRED SPECIAL INSPECTIONS OF STEEL CONSTRUCTION (IBC 1705.2 & AISC 360 CHAPTER N)

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD[a]	REQD
1.	Fabricator Certification/Quality Control Procedures				
	a. Review shop fabrication and quality control procedures. If fabricator provides a certificate of compliance to the building official that the work complies to the construction documents, then the fabricator is excempt per the requirements of IBC Section 1705.2	———	X		Y
2.	Material Certification				
	a. Review certified material mill test reports and identification markings on structural framing elements.	———	———		Y
3.	Bolting				
	a. Inspect high-strength bolts in accordance with referenced standard. Verify installation/tightening standards and procedures prior to the start of work.	———	X	AISC 360 Chapter N	Y
	b. For slip critical bolts, verify the installation procedure, inspect mating surfaces, and tightening standards.	X	———	AISC 360 Chapter N	-
4.	Welding				
	a. Visually inspect all welding. Verify preheat and interpass temperatures of steel, proper technique and sequence of welding, cleaning, and number of passes are provided as required.	———	X	AWS Section D & AISC 360 Chapter N	Y
	b. Inspect 100% of all fillet welds 5/16" or less for size, length, and quality per AWS D1.1. Test 100% of all full or partial penetration welds exceeding 5/16" using Ultrasonic testing. Test 25% of all full or partial penetration welds less than 5/16" using Magnetic Particle testing.	———	X	AWS Section D & AISC 360 Chapter N	Y
	c. Continuously inspect welding process for all full and partial penetration welds.	X	———	AWS Section D & AISC 360 Chapter N	Y
	d. Visually inspect size, location, length, and burn thru for 100% of puddle welds on metal deck per AWS D1.3.	———	X	AWS Section D & AISC 360 Chapter N	Y
	e. Visually inspect 100% of all reinforcing bar welds as the welding is performed per AWS D1.4.	X	———	AWS Section D & AISC 360 Chapter N	Y
5.	Shear Connectors				
	a. Visually inspect size, layout, and welding of all headed studs. Sound all installed studs for full penetration weld. Randomly test 15% of headed studs by bending to 15 degrees from vertical.	———	X	AWS Section D & AISC 360 Chapter N	-
6.	Shear Connectors				
	a. Verify that specified mechanical deck fasteners have been used & installed at specified spacing	———	X		Y
7.	Structural Configuration				
	a. Verify member orientation, configuration, type, and size comply with details indicated on the contract documents and approved shop drawings for the following elements: • Bracing and stiffening members • Joist details at connections • Work critical to integrity of the building structure	———	X		Y

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC TABLE 1705.6)

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	———	X
2.	Verify excavations are extended to proper depth and have reached proper material.	———	X
3.	Perform classification and testing of compacted fill materials.	———	X
4.	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	———
5.	Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	———	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION (TMS 402/602-16)

MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE[a]			REFERENCE FOR CRITERIA		REQD
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602	
Prior to construction, verification of compliance of submittals.	NR	R	R	———	Art. 1.5	Y
Prior to construction, verification of f'_m, except where specifically exempted by Code.	NR	R	R	———	Art. 1.4 B	Y
During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	NR	NR	R	———	Art. 1.5 & Art. 1.6.3	Y
During construction, verification of f'_m.	NR	NR	R	———	Art. 1.4 B	Y
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar and grout other than self-consolidating grout.	NR	NR	R	———	Art. 1.4 B	Y
INSPECTION TASK						
1. As masonry construction begins, verify that the following are in compliance:						
a. Proportions of site-prepared mortar	NR	P	P	———	Art. 2.1, 2.6 A, & 2.6 C	Y
b. Grade, type and size of reinforcement, connectors, and anchor bolts.	NR	P	P	———	Art. 3.4 & 3.6 A	Y
c. Sample panel construction	NR	P	C	———	Art. 1.6 D	-
2. Prior to grouting, verify that the following are in compliance:						
a. Grout space	NR	P	C	———	Art. 3.2 D & 3.2 F	Y
b. Placement of reinforcement, connectors, and anchor bolts	NR	P	C	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4	Y
c. Proportions of site-prepared grout	NR	P	P	———	Art. 2.6 B & 2.4 G.1.b	Y
3. Verify compliance of the following during construction:						
a. Materials and procedures with the approved submittals	NR	P	P	———	Art. 1.5	Y
b. Placement of masonry units and mortar joint construction	NR	P	P	———	Art. 3.3 B	Y
c. Size and location of structural members	NR	P	P	———	Art. 3.3 F	Y
d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	P	C	Sec. 1.2.1 (e), 6.2.1, & 6.3.1	———	Y
e. Welding of reinforcement	NR	C	C	Sec. 6.1.6.1.2	———	-
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)	NR	P	P	———	Art. 1.8 C & 1.8 D	Y
4. Observe preparation of grout specimens, mortar specimens, and/or prisms.	NR	P	C	———	Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4.B.2.c.3, 1.4 B.3, & 1.4 B.4	Y

a. Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table.
R = Required, NR = Not Required, P = Periodic, C = Continuous

REQUIRED SPECIAL INSPECTIONS OF COLD FORMED STEEL CONSTRUCTION (AISI)

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	REQD
1.	Cold Form Steel Construction				
	a. Verify all cold formed steel sizes, materials, and thicknesses are in compliance with the contract documents	———	X	AISI	Y
	b. Visually inspect all connections and fasteners and verify that they are in compliance with the detailing provided in the contract documents.	———	X	AISI	Y

REQUIRED SPECIAL INSPECTIONS OF SPECIAL CASES (IBC 1705.1.1)

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	REQD
1.	Expansion Bolts and Adhesive Anchors				
	a. Visually inspect installation to verify bolt type and dimensions, concrete type and compressive strength, pre-drilled hole dimensions, embedment, spacing, edge distances, slab thickness, and tightening torque.	X	———	IBC 1705.1.1 Item #3	Y
	b. Manufacturer shall provide Evaluation Service Report (ESR), inspection procedures, and installation directions.	———	X	IBC 1705.1.1 Item #3	Y

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BELTRAMI COUNTY

BELTRAMI COUNTY ADULT CORRECTIONS CENTER

815 PIONEER STREET SE

BEMIDJI, MN

Architect's Project #: 2312.00

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Telephone: 612-343-5965

Food Service Design
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Telephone: 952-933-0313

Fire Protection
EDI-Dokjo, Inc.
1112 North 5th Street
Minneapolis, MN 55411
Telephone: 612-343-5965

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Print Name: Troy D. Such
License #: 41374
Date: August 1, 2024

BID DOCUMENTS

August 1, 2024

Item	Description	Date

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Key Plan

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SPECIAL INSPECTIONS PROGRAM

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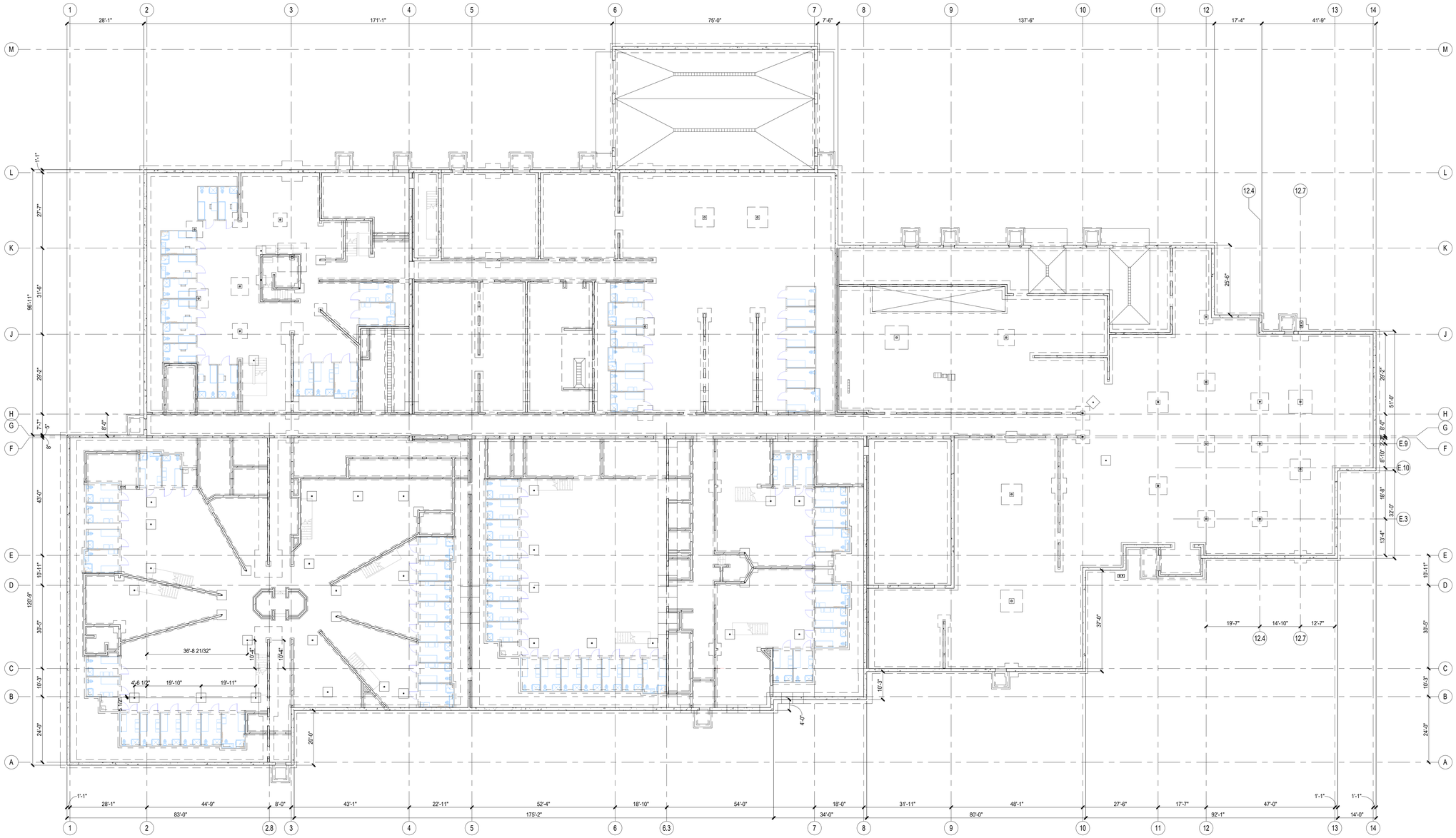

1 OVERALL FOUNDATION PLAN
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PLAN NOTES:

UNLESS NOTED OTHERWISE

1. SEE SHEET S0.0 FOR STRUCTURAL NOTES (INCLUDING STEEL GRADES AND CONCRETE STRENGTHS).
2. SEE THIS SHEET FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S2.0 FOR TYPICAL FOUNDATION DETAILS.
4. TOP OF SLAB ON GRADE ELEVATION = 100'-0" UNLESS NOTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RAMPS, SLOPED SLABS, DEPRESSED SLABS, STEPPED SLABS, AND NON-BEARING PARTITION WALLS.
5. TYPICAL TOP OF EXTERIOR FOOTING ELEVATION = 95'-0". SEE PLAN FOR VARIATIONS.
6. TYPICAL TOP OF INTERIOR FOOTING ELEVATION = 95'-0". SEE PLAN FOR VARIATIONS.
7. COORDINATE TOP OF FOOTING ELEVATIONS WITH MECHANICAL INVERTS/LOCATIONS. STEP FOOTINGS AT 2:1 INCREMENTS AS SHOWN ON SECTION 1/S2.0. SLEEVE MECHANICAL LINES THROUGH FOUNDATION WALLS OR FOOTINGS PER SECTION 2/S2.0.
8. PROVIDE CONCRETE PIER TYPE 'P1' UNLESS NOTED OTHERWISE ON PLAN.
9. PROVIDE 5" SLAB ON GRADE REINFORCED WITH 6X6/W2.1 X W2.1 WWF PLACED IN UPPER THIRD OF SLAB. TYPICAL UNLESS NOTED OTHERWISE. SEE SHEET S0.0 FOR SLAB ON GRADE CONTROL JOINT LAYOUT CRITERIA. DIVISION 03 3000 CONTRACTOR TO SUBMIT JOINT LAYOUT FOR REVIEW.
10. AT VEHICLE SALLYPORT & DRIVE-IN GARAGE AREAS, SLAB REINFORCING WWF SHALL BE EPOXY COATED.
11. COORDINATE WITH MECHANICAL AND ARCHITECTURAL DRAWINGS FOR IN-FLOOR SLAB HEATING SYSTEM, WHERE REQUIRED TO INSTALL UNDERFLOOR INSULATION & PIPING.
12. PLACE ALL APRON AND STOOP SLABS ON MINIMUM 5'-0" DEPTH OF CLEAN GRANULAR NON-FROST SUSCEPTIBLE FILL MATERIAL. SEE 6/S2.0 AND 12/S2.0 (TYPICAL).
13. WHERE DETAIL 12/S2.0 IS SHOWN ON PLAN, PROVIDE 6" MINIMUM THICK APRON SLAB, REINFORCED WITH #4@12" ON CENTER EACH WAY IN CENTER OF SLAB. COORDINATE SIZE AND SLOPE WITH CIVIL AND/OR ARCHITECTURAL DRAWINGS. ALL EXTERIOR APRON SLAB REINFORCING SHALL BE EPOXY COATED.
14. UNDERFLOOR PLUMBING LINES & TRENCH COMPACTION SHALL BE COMPLETED PRIOR TO INSTALLATION OF 2-STORY INTERIOR DAY ROOM WALL FOOTINGS PER FOOTING DETAIL 18/S2.0. WHERE TOP OF PLUMBING LINES ARE ABOVE ELEVATION 97'-8" AND CROSSES BELOW FOOTINGS, THE BOTTOM OF FOOTINGS SHALL BE THICKENED AND SLEEVED PER SECTION 2/S2.0.
15. TYPICAL VERTICAL BAR REINF FOR CMU WALLS ARE #5 @ 48" OC MAX CENTERED IN WALLS UNLESS NOTED OTHERWISE. SEE SW SHEET SERIES FOR ADDITIONAL CMU REINF REQUIREMENTS BETWEEN #5 BARS AT SECURITY WALL LOCATIONS. SECURITY BARS CAN BE SPLICED AT 4'-0" LENGTHS TOUCHING END TO END WITHOUT LAPPING.
16. SEE 3/S2.0 FOR TYPICAL THICKENED SLAB DETAIL AT NON LOAD BEARING CMU WALLS.
17. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING DIMENSIONS NOT SHOWN.

WALL FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING
WF1	16" x CONT	12"	2 - #5 x CONT
WF2	24" x CONT	12"	2 - #5 x CONT
WF2.5	30" x CONT	12"	2 - #5 x CONT
WF3	36" x CONT	12"	3 - #5 x CONT
WF3.5	42" x CONT	12"	3 - #5 x CONT #4 TRANS @ 12" OC
WF4	48" x CONT	12"	4 - #5 x CONT #5 TRANS @ 12" OC
WF6	72" x CONT	18"	8 - #5 x CONT #5 TRANS @ 9" OC
WF7	84" x CONT	18"	9 - #5 x CONT #5 TRANS @ 9" OC

COLUMN FOOTING SCHEDULE
(2000) PSF

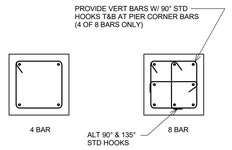
MARK	SIZE	DEPTH	REINFORCING
F3.5	3'-6" SQUARE	12"	8-#3 EA WAY BOTTOM
F4.5	4'-6" SQUARE	12"	7-#4 EA WAY BOTTOM
F5	5'-0" SQUARE	12"	7-#4 EA WAY BOTTOM
F5.5	5'-6" SQUARE	12"	8-#4 EA WAY BOTTOM
F6	6'-0" SQUARE	12"	6-#5 EA WAY BOTTOM
F6.5	6'-6" SQUARE	15"	7-#5 EA WAY BOTTOM
F7	7'-0" SQUARE	15"	8-#5 EA WAY BOTTOM
F7.5	7'-6" SQUARE	15"	8-#5 EA WAY BOTTOM
F8	8'-0" SQUARE	18"	8-#6 EA WAY BOTTOM
F8.5	8'-6" SQUARE	18"	8-#6 EA WAY BOTTOM
F10	10'-0" SQUARE	21"	10-#6 EA WAY BOTTOM
F10.5	10'-6" SQUARE	21"	11-#6 EA WAY BOTTOM

COLUMN PIER SCHEDULE

MARK	SIZE	VERT REINF	REMARKS
P1	18x18	4 - #5	
P2	22x22	8 - #5	
P3	15x30	8 - #5	

NOTES:
UNLESS NOTED OTHERWISE

1. TOP OF PIER ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
2. SEE 10/S2.0 FOR TYPICAL PIER DETAIL.
3. PROVIDE MATCHING DOWEL TO FOOTING AT EACH VERT BAR.
4. PROVIDE #4 TIES @ 12" OC FULL HEIGHT OF PIER. ADD 3-#4 @ 3" OC AT TOP OF PIER.
5. PROVIDE #4 CROSSTIES AS SHOWN BELOW WITH 90 DEGREE HOOK ONE END AND 135 DEGREE HOOK OTHER END.
6. BLOCK-OUT THE BOTTOM 8 INCHES OF PRECAST WALL PANELS AT PIERS AS REQUIRED TO PLACE STEEL COLUMN BASE PLATE PLUS 1 INCH.
7. PROVIDE PIER TYPE P1 UNLESS NOTED OTHERWISE ON PLAN.



PIER TIE DIAGRAMS

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE SIZE
C31	HSS 3x 3x 5/16	1/2" x 9" x 0'-9"
C41	HSS 4x 4x 1/4	1/2" x 10" x 0'-10"
C51	HSS 5x 5x 1/4	3/4" x 11" x 0'-11"
C52	HSS 5x 5x 5/16	3/4" x 11" x 0'-11"
C53	HSS 5x 5x 1/2	1" x 11" x 0'-11"
C61	HSS 6x 6x 1/4	1" x 12" x 1'-0"
C62	HSS 6x 6x 5/16	1" x 12" x 1'-0"
C63	HSS 6x 6x 3/8	1 1/4" x 12" x 1'-0"
C64	HSS 6x 6x 1/2	1 1/4" x 12" x 1'-0"
C71	HSS 7x 7x 1/4	3/4" x 13" x 1'-1"
C81	HSS 8x 8x 5/8	1 1/4" x 14" x 1'-2"

NOTES:
UNLESS NOTED OTHERWISE

1. PROVIDE (4)- 3/4" DIA ANCHOR BOLTS UNLESS NOTED OTHERWISE.
2. PROVIDE (4)- 1" DIA ANCHOR BOLTS AT COLUMNS LARGER THAN 6x6.
3. SEE 8/S2.0 FOR TYPICAL ANCHOR BOLT DETAIL AND DETAIL 9/S2.0 FOR BASE PLATE TYPES.
4. SEE 10/S2.0 FOR TYPICAL COLUMN BASE DETAIL.
5. PROVIDE SQUARE ANCHOR BOLT LAYOUT PATTERN WITH 1 1/2" BASE PLATE EDGE DISTANCE TO BOLT CENTER, TYPICAL UNLESS INDICATED OTHERWISE.

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815 PIONEER STREET SE

BEMIDJI, MN

Architect's Project #: 2312.00

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Print Name: Troy D. Such
License #: 41374
Date: August 1, 2024

BID DOCUMENTS

August 1, 2024

Item	Description	Date

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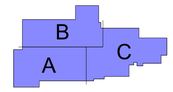
Key Plan



OVERALL FOUNDATION PLAN

S1.1

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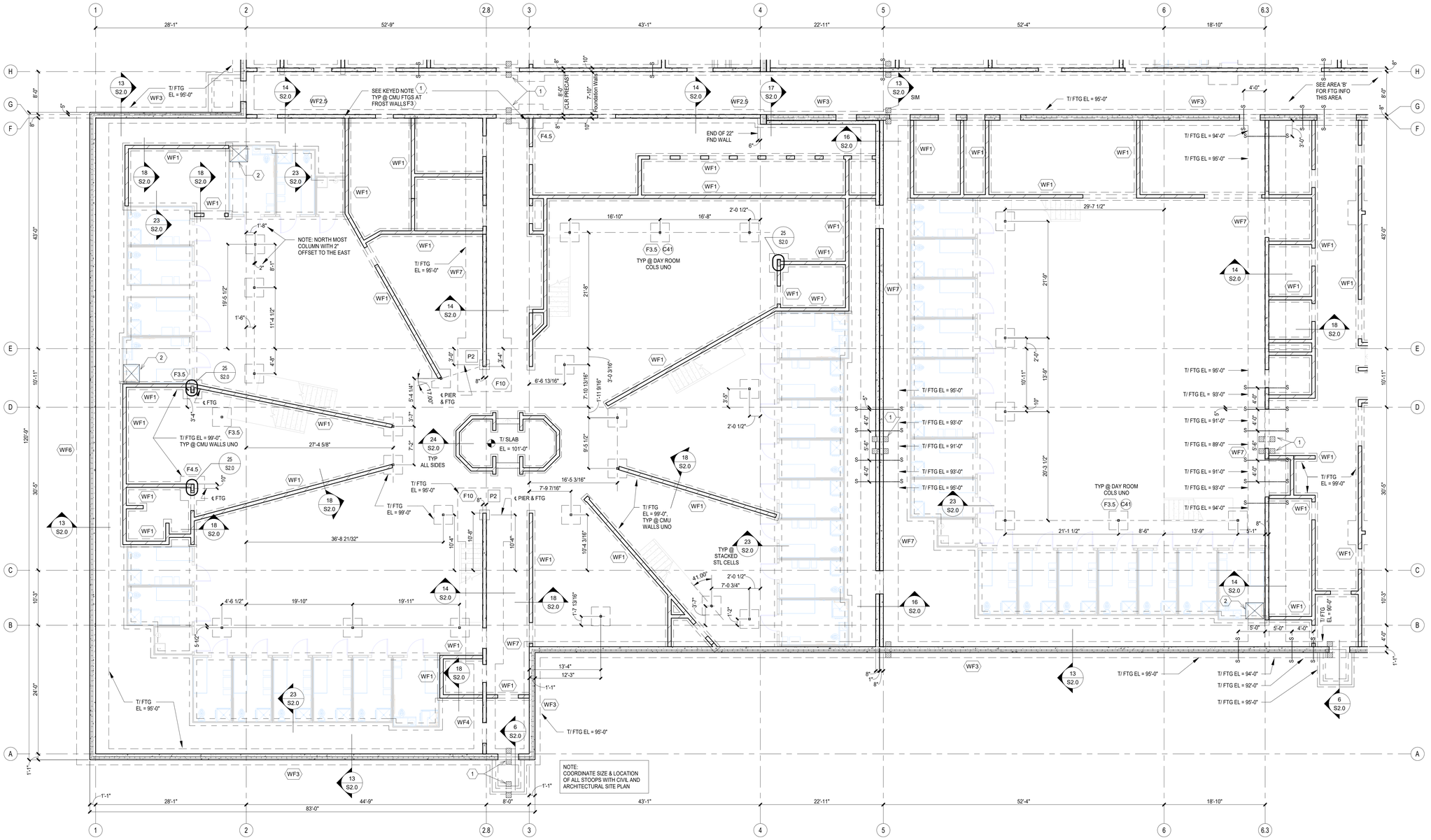

1 FOUNDATION PLAN - AREA A

No Scale

NORTH

PLAN NOTES:

UNLESS NOTED OTHERWISE

1. SEE SHEET S0.0 FOR STRUCTURAL NOTES (INCLUDING STEEL GRADES AND CONCRETE STRENGTHS).
2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S1.1 FOR TYPICAL FOUNDATION PLAN NOTES.

KEYED NOTES:

1. PROVIDE OVERSIZED SLEEVE THRU THICKENED FOOTING OR FOUNDATION WALL AT UNDER FLOOR PIPING. MOST LOCATIONS ARE NOT SHOWN. SEE MECH DRAWINGS FOR ALL LOCATIONS & 2/S2.0 FOR SLEEVE DETAIL. CORE DRILLING FOUNDATION WALLS IS ACCEPTABLE IF OVERSIZED AS DETAILED.
2. PROVIDE SLAB RECESS AT ALL ADA CELL LOCATIONS, SEE DETAIL 5/S2.0 & ARCH PLANS FOR ALL LOCATIONS. COORDINATE FINAL DEPTH & SIZE OF RECESS WITH PURCHASED SHOWER INSERT ASSEMBLY.

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License #: 41374
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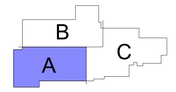
Key Plan



FOUNDATION PLAN AREA A

S1.1A

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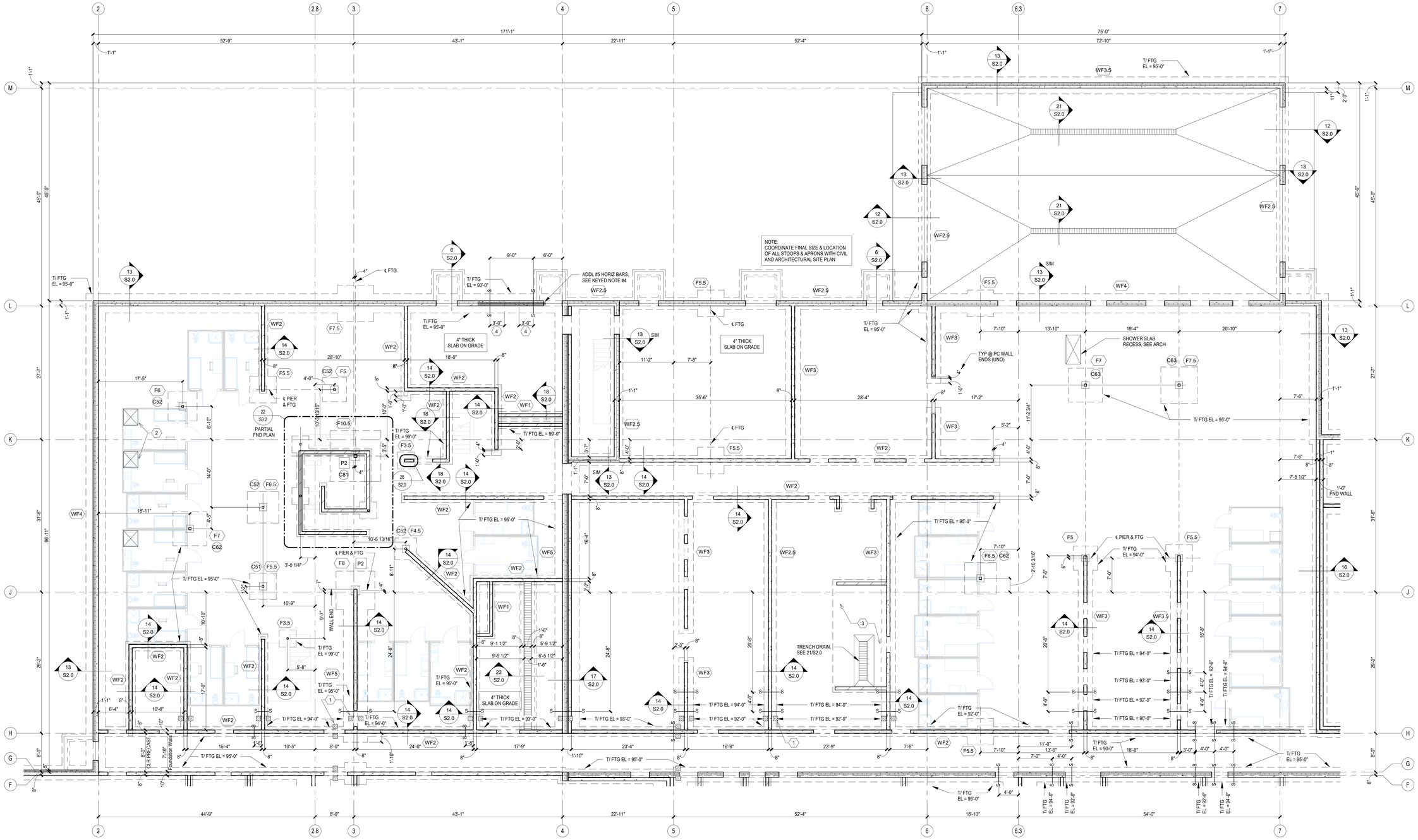

1 FOUNDATION PLAN - AREA B
No Scale

NORTH

PLAN NOTES:

UNLESS NOTED OTHERWISE

1. SEE SHEET S0.0 FOR STRUCTURAL NOTES (INCLUDING STEEL GRADES AND CONCRETE STRENGTHS).
2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S1.1 FOR TYPICAL FOUNDATION PLAN NOTES.

KEYED NOTES:

1. PROVIDE OVERSIZED SLEEVE THRU THICKENED FOOTING OR FOUNDATION WALL AT UNDER FLOOR PIPING. MOST LOCATIONS ARE NOT SHOWN. SEE MECH DRAWINGS FOR ALL LOCATIONS & 2/S2.0 FOR SLEEVE DETAIL. CORE DRILLING FOUNDATION WALLS IS ACCEPTABLE IF OVERSIZED AS DETAILED.
2. PROVIDE SLAB RECESS AT ALL ADA CELL LOCATIONS, SEE DETAIL 5/S2.0 & ARCH PLANS FOR ALL LOCATIONS. COORDINATE FINAL DEPTH & SIZE OF RECESS WITH PURCHASED SHOWER INSERT ASSEMBLY.
3. 10" THICKENED SLAB AT WASHERS REINF W/ #5 @ 16" OC EA WAY. CHAIR REBAR W/ 3" TOP COVER.
4. FOUNDATION WALL OPENINGS FOR ELECTRICAL DUCT BANKS. PROVIDE 36" WIDE OPENINGS WITH TOP OF OPENING EL = 97'-6". EXTEND OPENINGS DOWN TO TOP OF FTG. PROVIDE ADDITIONAL (6) - #5 x 14'-0" HORIZ BARS, (3) BARS ABOVE OPENINGS & (3) BARS AT TOP OF FOUNDATION WALL. COORDINATE EXACT LOCATION OF OPENINGS WITH DIV 26 CONTRACTOR.

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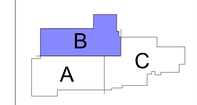
Key Plan



FOUNDATION PLAN
AREA B

S1.1B

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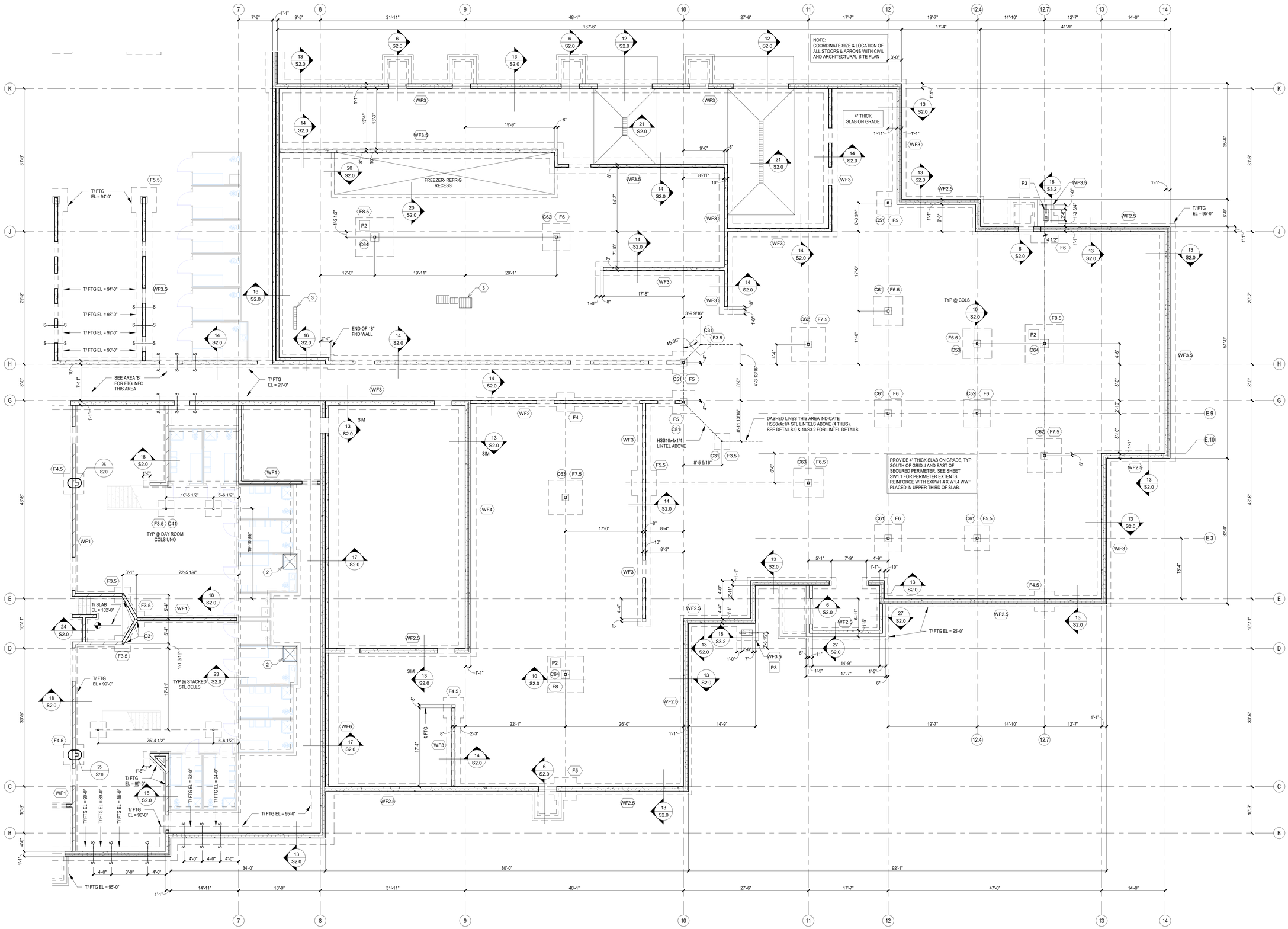

1 FOUNDATION PLAN - AREA C
No Scale

NORTH

PLAN NOTES:

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2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S1.1 FOR TYPICAL FOUNDATION PLAN NOTES.

KEYED NOTES:

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2. PROVIDE SLAB RECESS AT ALL ADA CELL LOCATIONS, SEE DETAIL 5/S2.0 & ARCH PLANS FOR ALL LOCATIONS. COORDINATE FINAL DEPTH & SIZE OF RECESS WITH PURCHASED SHOWER INSERT ASSEMBLY.
3. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL TRENCH DRAIN REQUIREMENTS & DETAILS THIS AREA.

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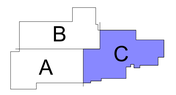
Key Plan



FOUNDATION PLAN AREA C

S1.1C

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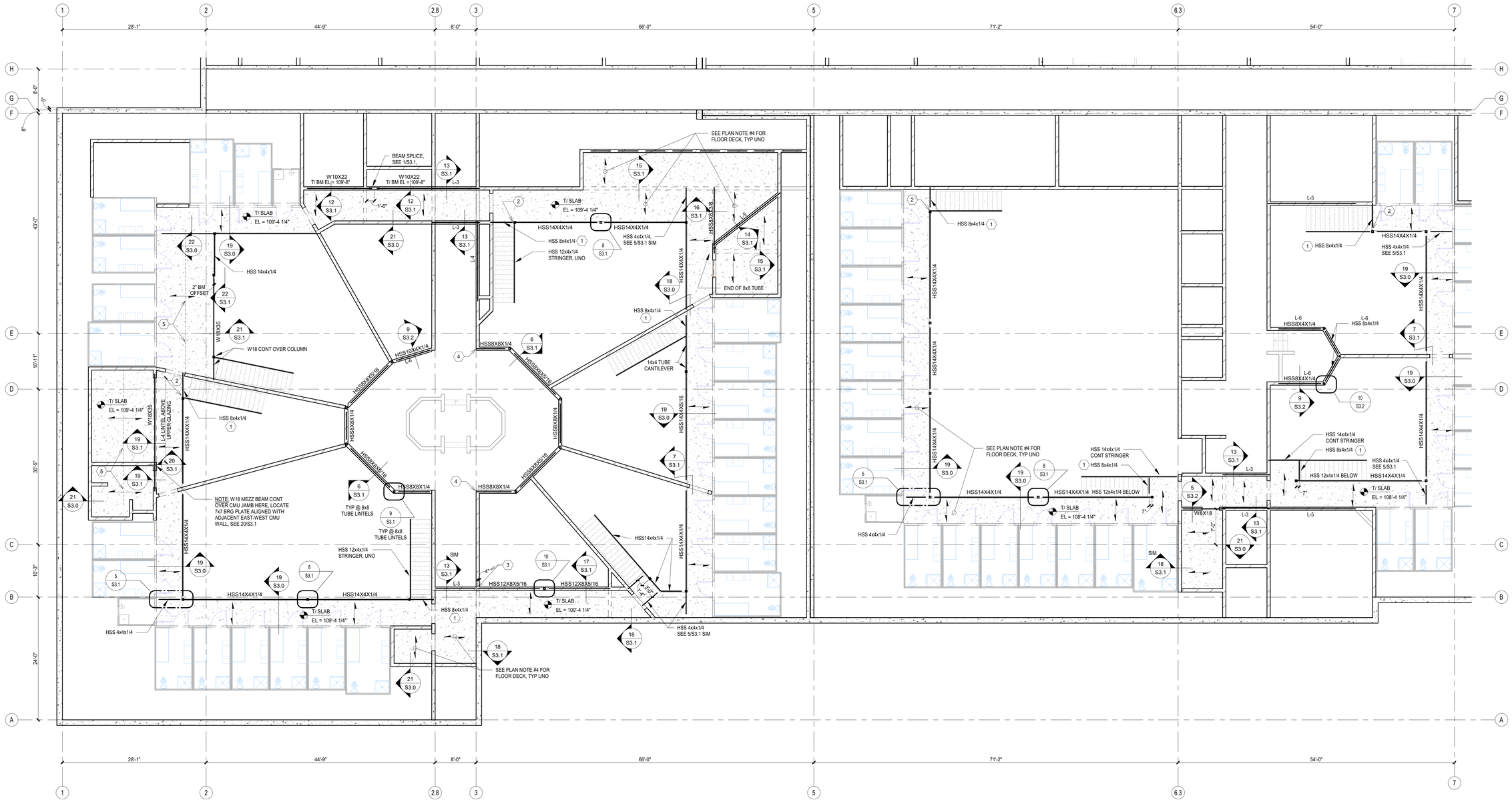

1 SECOND LEVEL FRAMING PLAN -AREA A

No Scale

NORTH

PLAN NOTES:

UNLESS NOTED OTHERWISE

1. SEE SHEET S0.0 FOR STRUCTURAL NOTES (INCLUDING STEEL GRADES AND CONCRETE STRENGTHS).
2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES. SEE THIS SHEET FOR THE CMU LINTEL SCHEDULE.
3. SEE 7/S3.0 OR 8/S3.0 FOR TYPICAL EMBED OR BEARING PLATES IN PRECAST CONCRETE WALLS SUPPORTING STEEL BEAMS. SPECIAL CONDITIONS ARE NOTED ON PLAN.
4. AT STEEL CELL TIER LEVELS, PROVIDE 6" THICK NORMAL WEIGHT CONCRETE SLAB ON 3" DEEP CELLULAR COMPOSITE STEEL DECK, (3VLP20 OR 3VLP18 BY VULCRAFT, OR EQUAL), REINFORCED WITH 6" x 6" - W1.4 x W1.4 WWF. FASTEN COMPOSITE DECK SIDELAPS AT 30" O.C. TYPICAL, USING WELDS, SCREWS, OR BUTTON PUNCHES, PER MANUFACTURER'S RECOMMENDATIONS. TYPICAL TOP OF MEZZANINE SLAB EL = 109'-4 1/4" UNLESS NOTED OTHERWISE. SEE DETAIL 19/S3.0 FOR ADDITIONAL INFO. VERIFY FINISHED FLOOR ELEVATION WITH ARCHITECTURAL DRAWINGS AND STEEL CELL SUPPLIER.
5. AT COMPOSITE FLOOR DECK ADJACENT TO AND BRG AT CMU WALLS, PROVIDE L4X4 DECK BEARING ANGLE WITH EXPANSION BOLTS TO CMU PER SECTION 21/S3.0.
6. PROVIDE VERTICAL SLIP CONNECTION AT TOP OF ALL NON LOAD BEARING CMU WALLS ATTACHED TO THE UNDERSIDE OF PRECAST ROOF MEMBERS. SEE TYPICAL DETAIL 24/S3.0 FOR CLIP ANGLES.
7. SEE 3/S3.1. FOR STEEL BEARING PLATES FOR STEEL BEAMS BEARING ON CMU WALLS UNLESS NOTED OTHERWISE.
8. SERVICE REACTIONS FOR STEEL BEAMS ARE SHOWN AS (3SK) ON PLAN NEAR END OF BEAM. WHERE NOT NOTED STEEL SUPPLIER TO DESIGN FOR END REACTIONS PER STRUCTURAL GENERAL NOTES.
9. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING DIMENSIONS NOT SHOWN.

KEYED NOTES:

1. PROVIDE L4x4 DECK SUPPORT ONE SIDE OF 8x4 TUBE, SEE 22/S3.0 FOR ANGLE AND SHOP WELD REFERENCE.
2. PROVIDE 1/2 x 4 x 8 COLUMN CAP EXTENDED BELOW 8x4 TUBE FOR 8x4 BEAM SUPPORT. TOP OF COLUMN CAP PLATE TO BE AT BOTTOM OF 14x4 OR 16x4 MEZZ BEAM. PROVIDE 1/4" END PLATES AT ALL TUBE ENDS EXPOSED ABOVE & BELOW MEZZANINE FLOOR.
3. BEAR TUBE BEAM 4 INCHES ON CMU WITH 5/8 x 7 x 1'-0" BEARING PLATE PER DETAIL 3/S3.1 CENTERED ON CMU WALL. PROVIDE 3/8" THICK SHOP WELDED END PLATE AT TUBE BEAM BEARING.
4. EXTEND TUBE BEAM TO GRID 3 AND TERIMINATE WITH 3/8" THICK SHOP WELDED END PLATE AT TUBE BEARING. PROVIDE 5/8 x 7 x 0'-9" BEARING PLATE PER DETAIL 3/S3.1 CENTERED ON CMU WALL & FLUSH WITH WALL END. FIELD WELD TUBE BEAM ON NORTH & SOUTH SIDES OF TUBE WITH FULL DEPTH FLARE BEVEL WELDS.
5. DIVISION 3 SUB-CONTRACTOR TO PROVIDE DESIGN & MATERIALS TO TEMPORARILY SHORE METAL FLOOR DECKING DURING CONCRETE INSTALLATION AT 2 SHORING LINES AS SHOWN. SHORING TO BE DESIGNED FOR A SERVICE LOAD = 525 POUNDS PER LINEAR FOOT. SHORING TO BE MAINTAINED FOR A MINIMUM OF 21 CONC CURING DAYS.

CMU LINTEL SCHEDULE

MARK	SIZE	REMARKS
L1	8" DEEP CMU W/ 2-#5 CONT	
L2	16" DEEP CMU W/ 2-#5 CONT	
L3	24" DEEP CMU W/ 2-#5 CONT	
L4	32" DEEP CMU W/ 2-#5 CONT	
L5	48" DEEP CMU W/ 2-#6 CONT	
L6	HSS LINTEL (SEE PLAN FOR SIZE)	5/16" BOTTOM PLATE

NOTES:

1. REFER TO PLAN & SCHEDULE FOR REINF REQUIREMENTS @ JAMBS.
2. PROVIDE TYPICAL LINTEL TYPE 'L-2' AT LOCATIONS NOT INDICATED.
3. UNLESS DETAILED OTHERWISE, LINTEL BOTTOM PLATES SHALL BE (NOMINAL WALL WIDTH - 1"). CENTER BEAM ON CMU & EXTEND PLATE FOR SOAP BLOCK. STOP BOTTOM PLATE ½ INCH FROM JAMBS.
4. PROVIDE 6" BEARING LENGTH AT STEEL LINTELS PERPENDICULAR TO SUPPORT WALLS, SEE DETAIL 3/S3.1 FOR TYPICAL BEARING PLATE DETAIL.
5. EXTEND ALL CMU LINTELS & REINFORCING 8" BEYOND OPENING EACH END.
6. UNLESS NOTED OTHERWISE, ALL OPENINGS IN MASONRY WALLS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL HAVE REINFORCED CONCRETE MASONRY LINTELS AS FOLLOWS. SEE ARCH DRAWINGS FOR SIZE & LOCATION OF ALL OPENINGS IN NON-LOAD BEARING WALLS.

OPENINGS TO 5'-4"---------- USE LINTEL TYPE 'L1'

OPENINGS ABOVE 5'-4" TO 10'-0"---------- USE LINTEL TYPE 'L2'

OPENINGS ABOVE 10'-0" TO 14'-8" -------- USE LINTEL TYPE 'L3'

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License #: 41374
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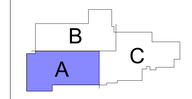
Key Plan



SECOND LEVEL FRAMING PLAN - AREA A

S1.2A

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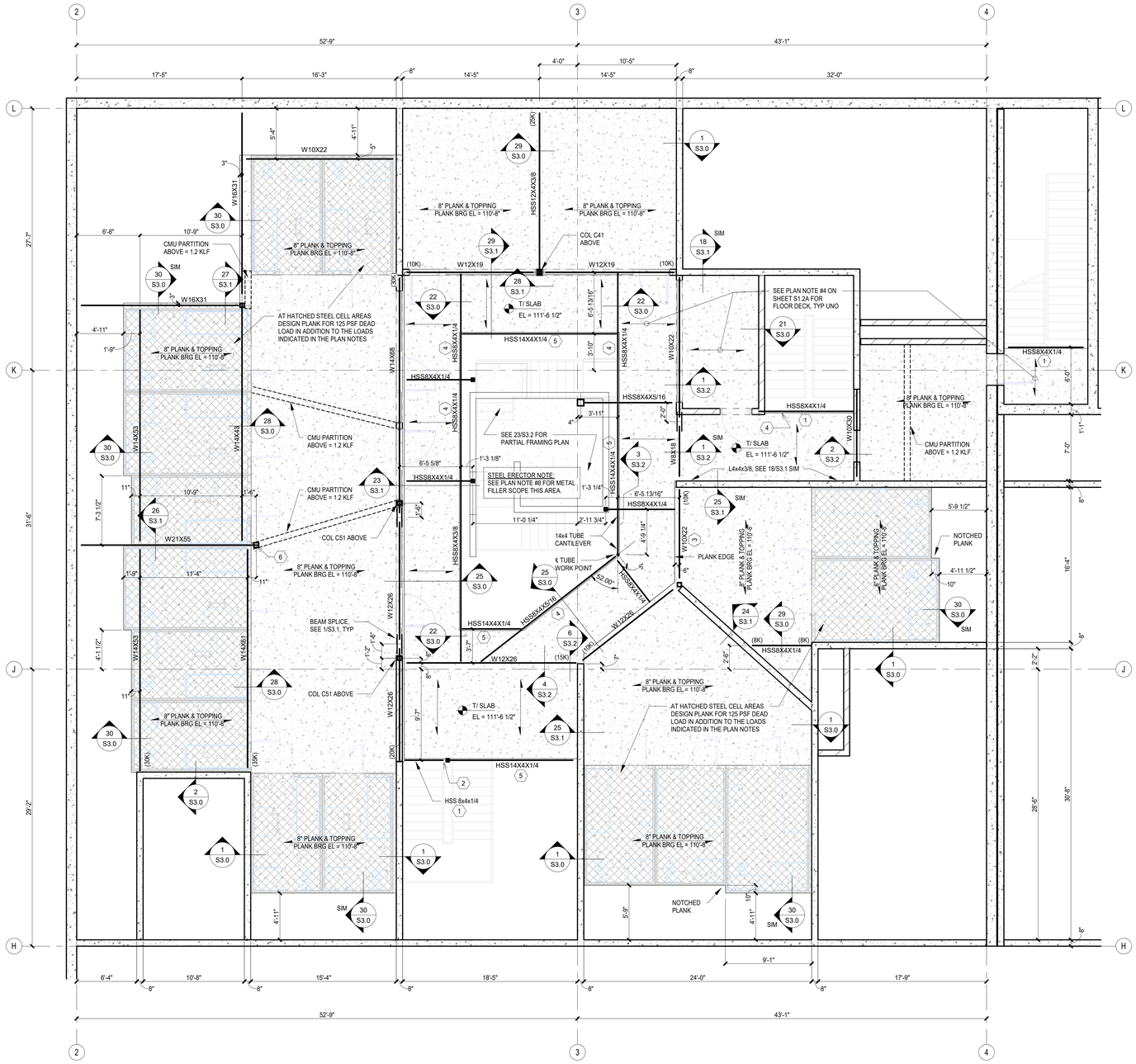
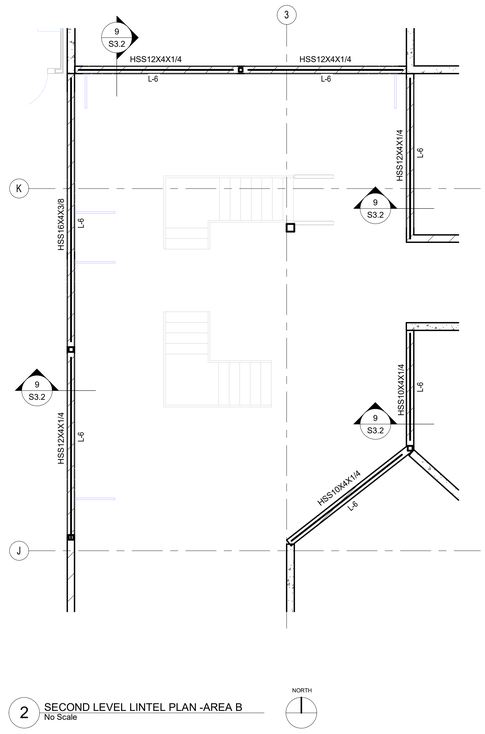


1 SECOND LEVEL FRAMING PLAN -AREA B
No Scale

NORTH



2 SECOND LEVEL LINTEL PLAN -AREA B
No Scale

NORTH

PLAN NOTES:

UNLESS NOTED OTHERWISE

1. SEE SHEET S0.0 FOR STRUCTURAL NOTES (INCLUDING STEEL GRADES AND CONCRETE STRENGTHS).
2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S2.1A FOR ADDITIONAL FLOOR FRAMING PLAN NOTES.
4. SEE PLAN FOR DEPTH & SPAN DIRECTION OF HOLLOW CORE PLANK WITH 2 1/2" CONCRETE TOPPING TYPICAL BOTTOM OF HOLLOW CORE PLANK BEARING ELEVATION = 110'- 8". SEE PLAN FOR VARIATIONS.
5. PLANK SUPPLIER TO PROVIDE HEADERS TIGHT TO UNDERSIDE OF PLANK FOR ALL OPENINGS IN PRECAST PLANK. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE.
6. DESIGN PRECAST PLANK FRAMING FOR THE FOLLOWING SUPERIMPOSED SERVICE LEVEL UNIFORM LOADS:

   FLOOR AREA LOADING (UNLESS NOTED OTHERWISE):
   DEAD LOAD = 50 PSF (INCLUDES 2 1/2" TOPPING)
   LIVE LOAD = 100 PSF (REDUCIBLE)

   TYPICAL CELL BLOCK HOUSING AREAS:
   DEAD LOAD= 45 PSF (INCLUDES 2 1/2" TOPPING)
   LIVE LOAD = 40 PSF (REDUCIBLE)

7. OMIT FLOOR DECK BOTTOM CELLULAR PANS AT FLOOR DECK WITH CEILINGS BELOW FLOORS THIS AREA. SEE ARCH FOR CEILING PLANS.
8. AT STACKED TUBE DETAIL 25/S3.0 LOCATIONS, STEEL ERECTOR TO MAKE BID PROVISIONS TO FURNISH & INSTALL METAL FILLER "BONDO FILLER" AT ALL VISIBLE HORIZONAL JOINTS BETWEEN TUBES TO BE SANDED AND FINISHED TO APPEAR AS A SINGLE MONOLITHIC TUBE FACE.
9. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING DIMENSIONS NOT SHOWN.

KEYED NOTES:

1. PROVIDE L4x4 DECK SUPPORT ONE SIDE OF 8x4 TUBE, SEE 22/S3.0 FOR ANGLE AND SHOP WELD REFERENCE.
2. PROVIDE 1/2 x 4 x 8 COLUMN CAP EXTENDED BELOW 8x4 TUBE FOR 8x4 BEAM SUPPORT. TOP OF COLUMN CAP PLATE TO BE AT BOTTOM OF 14x4 MEZZ BEAM. PROVIDE 1/4" END PLATES AT ALL TUBE ENDS EXPOSED ABOVE & BELOW MEZZANINE FLOOR.
3. TOP OF BEAM EL = 110'-8". SEE 25/S3.0 FOR PLANK EDGE BENT PLATE, DECK BEARING ANGLE & PLATE HANGERS BELOW.
4. SEE DETAIL 25/S3.0 FOR MEZZANINE RAILING EDGE DETAIL.
5. SEE DETAIL 29/S3.1 FOR MEZZANINE RAILING EDGE DETAIL.
6. EXTEND W18 BEAM 5 INCHES EAST OF COL CENTERLINE & PROVIDE COL CAP PLATE & WEB STIFFENERS PER DETAIL 1/S3.1.

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Architect's Project #: 2312.00

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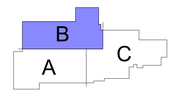
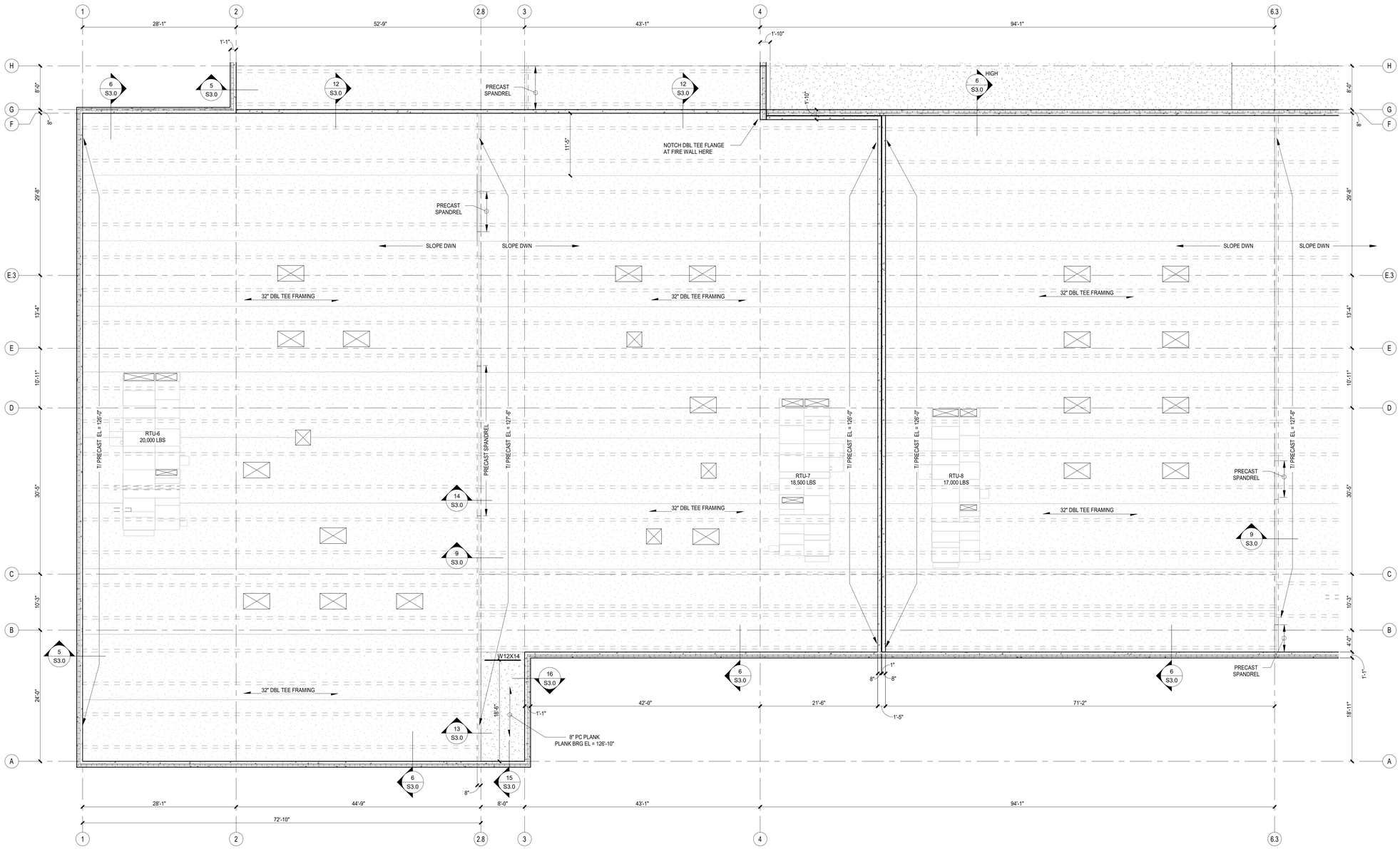


SECOND LEVEL
FRAMING PLAN - AREA B

S1.2B

7/31/2024 9:58:19 PM



1 ROOF FRAMING PLAN - AREA A
No Scale

NORTH

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2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE PLAN FOR DEPTH & SPAN DIRECTION OF PRECAST HOLLOW CORE PLANK OR DOUBLE TEE ROOF FRAMING. SEE PLAN FOR PRECAST ELEVATIONS.
4. PLANK SUPPLIER TO PROVIDE HEADERS TIGHT TO UNDERSIDE OF PLANK FOR ALL OPENINGS IN PRECAST PLANK. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR OPENING LOCATIONS AND SIZE.
5. DESIGN PRECAST PLANK & DOUBLE TEE FRAMING FOR THE FOLLOWING SUPERIMPOSED SERVICE LEVEL UNIFORM LOADS:

   TYPICAL ROOF AREA LOADING:
   DEAD LOAD = 20 PSF
   SNOW LOAD = 51 PSF + DRIFT AS SHOWN ON PLANS

   ROOF AREA OVER MECHANCIAL ROOMS:
   DEAD LOAD= 35 PSF
   SNOW LOAD = 51 PSF + DRIFT AS SHOWN ON PLANS

6. SEE 7/S3.0 OR 8/S3.0 FOR TYPICAL EMBED OR BEARING PLATES IN PRECAST CONCRETE WALLS SUPPORTING STEEL BEAMS. SPECIAL CONDITIONS ARE NOTED ON PLAN.
7. PRECAST SUPPLIER WITH ASSISTANCE FROM THE CONSTRUCTION MANAGER TO CONFIRM MECHANCIAL EQUIPMENT SIZE, LOCATION AND MAXIMUM WEIGHT SHOWN ON PLANS. IF WEIGHT OR CONFIGURATION OF EQUIPMENT VARIES FROM WHAT IS SHOWN, PRECAST SUPPLIER SHALL CONTACT STRUCTURAL ENGINEER OF RECORD TO COORDINATE REVISED DESIGN.
8. PROVIDE VERTICAL SLIP CONNECTION AT TOP OF ALL NON LOAD BEARING CMU WALLS ATTACHED TO THE UNDERSIDE OF PRECAST ROOF MEMBERS. SEE TYPICAL DETAIL 24/S3.0 FOR CLIP ANGLES.
9. SERVICE REACTIONS FOR STEEL BEAMS ARE SHOWN AS (35K) ON PLAN NEAR END OF BEAM. WHERE NOT NOTED STEEL SUPPLIER TO DESIGN FOR END REACTIONS PER STRUCTURAL GENERAL NOTES.
10. REFER TO THE ARCHITECTURAL DRAWINGS AND/OR COORDINATE WITH THE ARCHITECT REGARDING DIMENSIONS NOT SHOWN.

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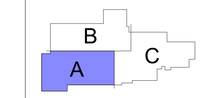

ROOF FRAMING PLAN AREA A

S1.3A

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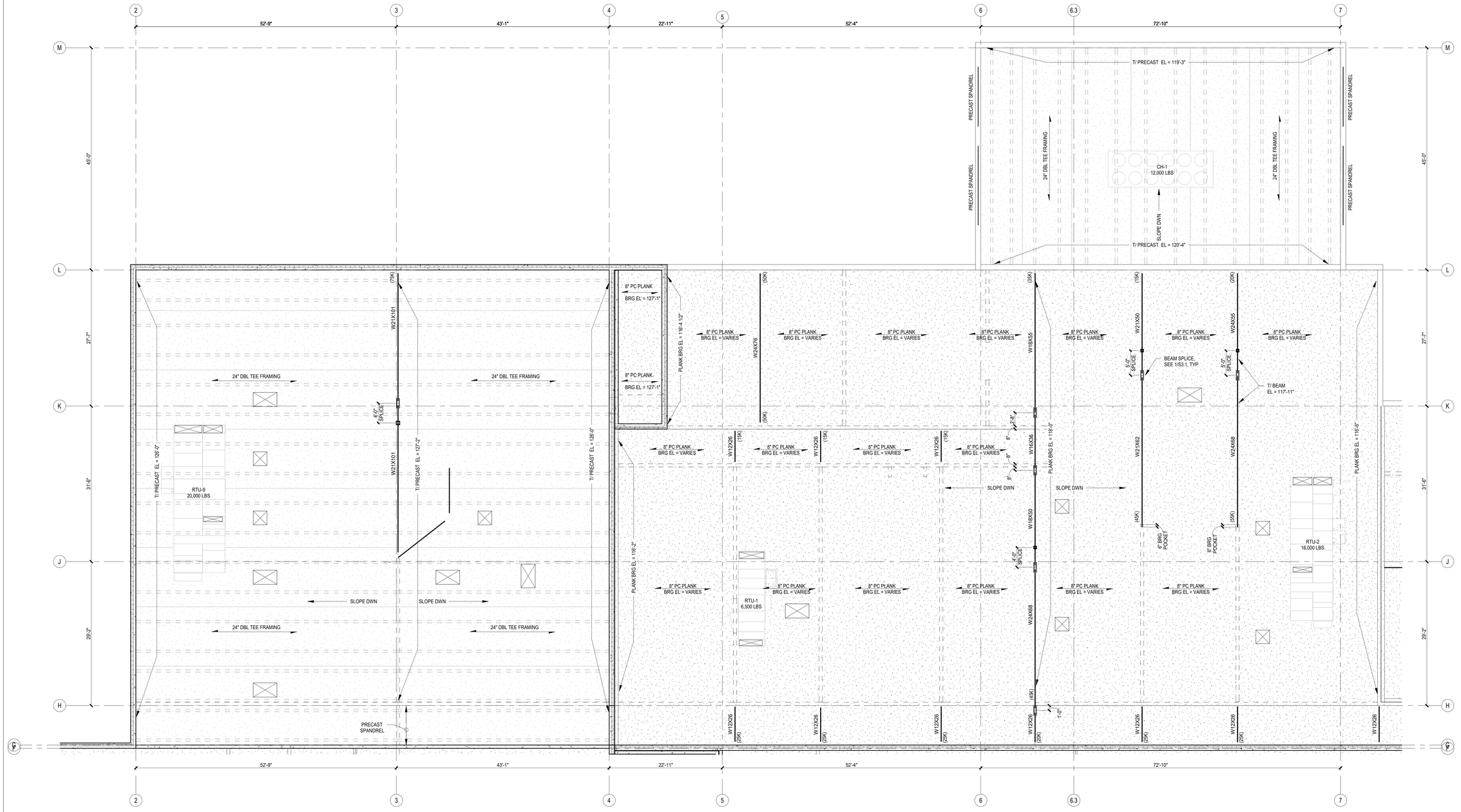

1 ROOF FRAMING PLAN - AREA B
No Scale

NORTH

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2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S1.3A FOR TYPICAL ROOF FRAMING PLAN NOTES.

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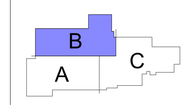

ROOF FRAMING PLAN
AREA B

S1.3B

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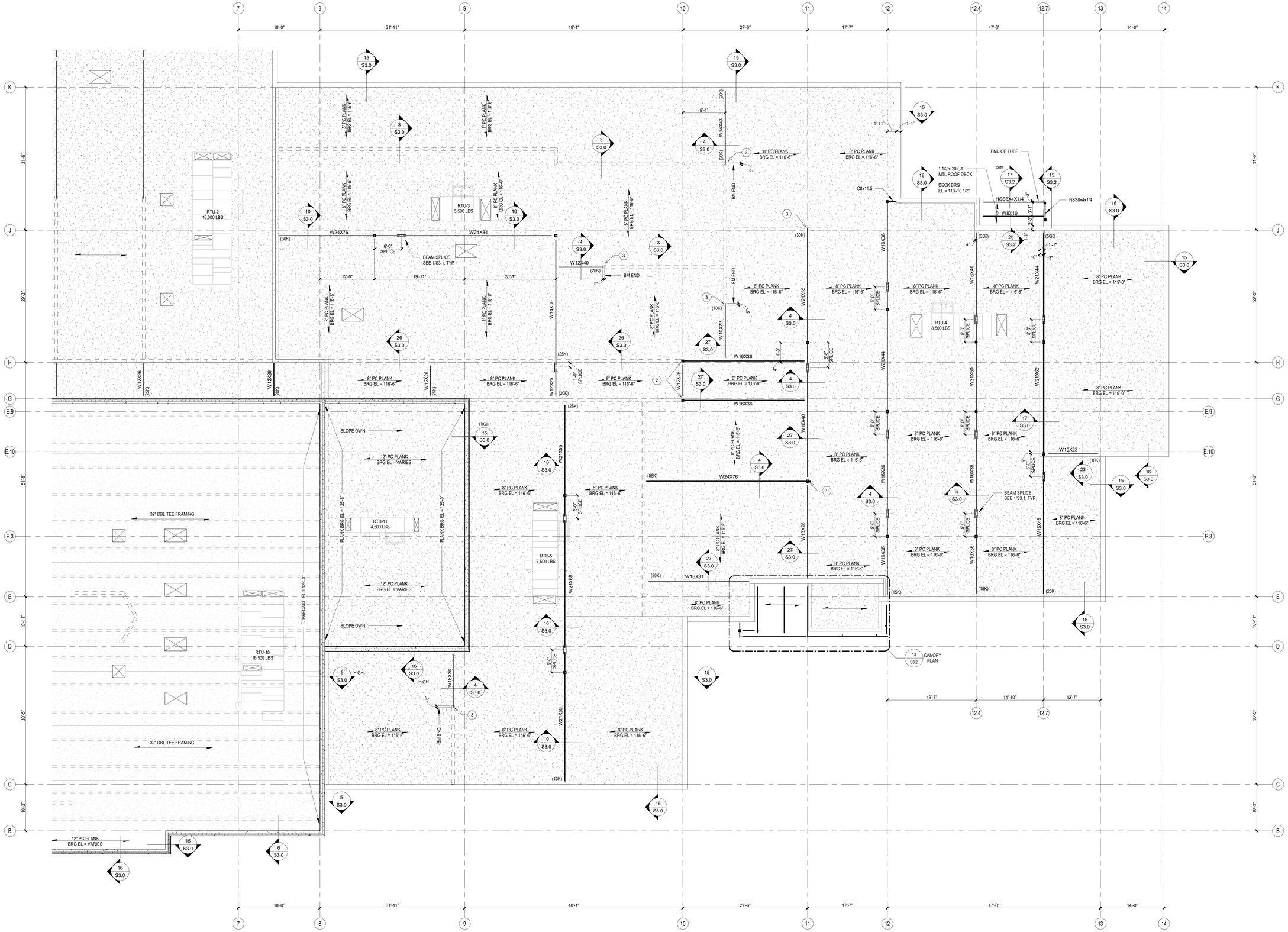

1 ROOF FRAMING PLAN - AREA C
No Scale

NORTH

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2. SEE SHEET S1.1 FOR COLUMN, CONC PIER AND FOOTING SCHEDULES.
3. SEE SHEET S1.3A FOR TYPICAL ROOF FRAMING PLAN NOTES.

KEYED NOTES:

1. EXTEND W24 BEAM 8" EAST OF GRID 11 BEARING ON TOP OF COLUMN. SEE 1/S3.1 FOR COLUMN CAP PLATE AND BEAM WEB STIFFENER PLATES. CONNECT NORTH-SOUTH BEAMS INTO THE W24 STIFFENER PLATES EA SIDE.
2. EXTEND W16 BEAM 3" WEST OF COLUMN CENTERLINE BEARING ON TOP OF COLUMN. TERMINATE THE COLUMN COLUMN CAP PLATE AT THE SAME 3" DIMENSION. SEE 1/S3.1 FOR COLUMN CAP PLATE AND BEAM WEB STIFFENER PLATES. CONNECT NORTH-SOUTH W12 BEAM INTO THE W16 STIFFENER PLATES EA SIDE.
3. NOTCH TOP OF PRECAST WALL FOR BEAM BEARING. EXTEND BEAM TO BEAR 5 INCHES OVER PRECAST WALL. SEE 3/S3.1 FOR BEAM END PLATE.

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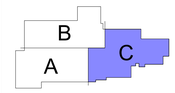

ROOF FRAMING PLAN
AREA C

S1.3C

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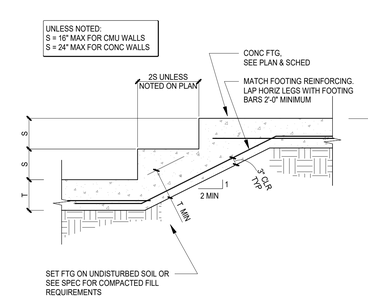

1 TYP WALL FOOTING STEP DETAIL
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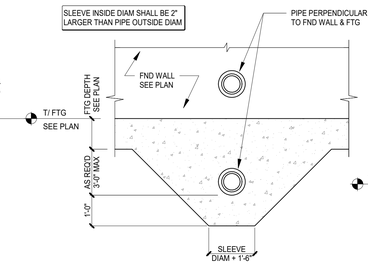

2 TYP FOUNDATION SLEEVE DETAIL
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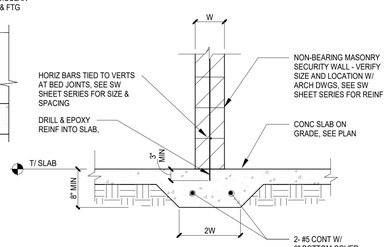

3 SLAB SECTION
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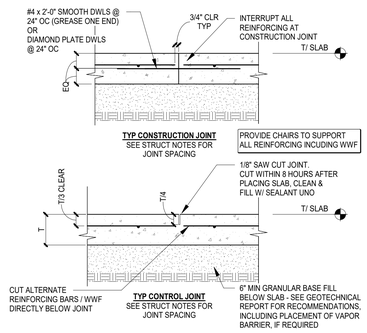

4 TYP SLAB/COL ISOLATION DETAIL
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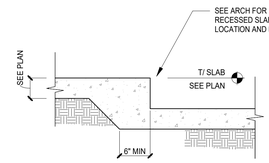

5 TYP SLAB RECESS SECTION
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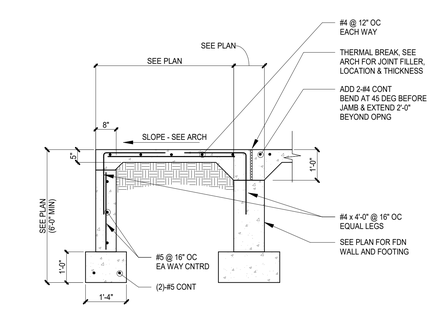

6 TYP STOOP SECTION
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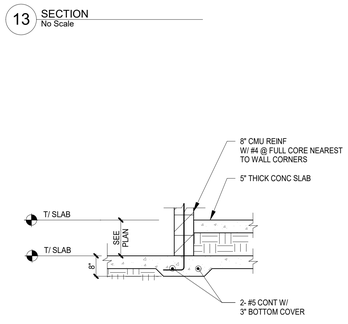

7 TYP SLAB/COL ISOLATION DETAIL
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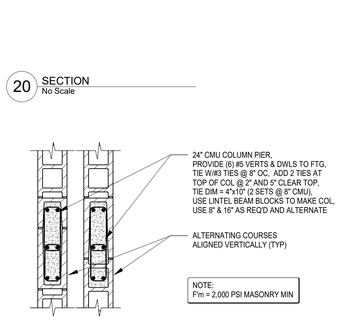

8 TYP ANCHOR BOLT DETAIL
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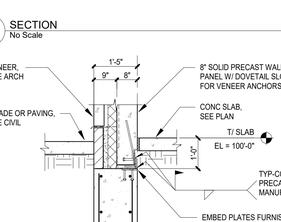

9 BASE PLATE TYPES
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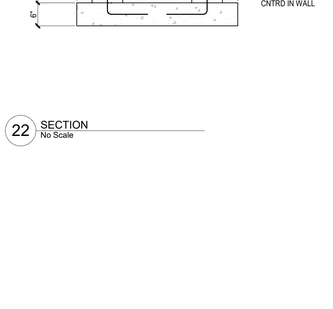

10 TYP COLUMN PIER DETAIL
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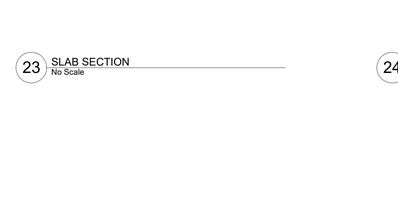

11 SLAB SECTION
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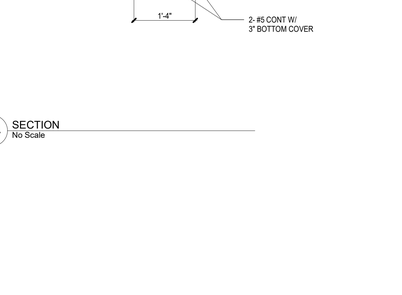

12 APRON SLAB SECTION
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13 SECTION
No Scale

14 SECTION
No Scale

15 SECTION
No Scale

16 SECTION
No Scale

17 SECTION
No Scale

18 SECTION
No Scale

19 SECTION
No Scale

20 SECTION
No Scale

21 SECTION
No Scale

22 SECTION
No Scale

23 SLAB SECTION
No Scale

24 SECTION
No Scale

25 PLAN DETAIL - 16" CMU COL
No Scale

26 PLAN DETAIL - 24" CMU COL
No Scale

27 SECTION
No Scale

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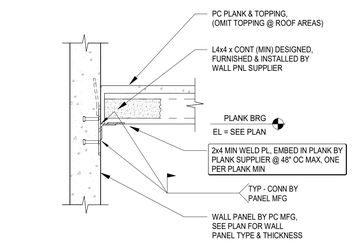
Key Plan

SECTIONS & DETAILS

S2.0

7/31/2024 10:02:19 PM



1 SECTION
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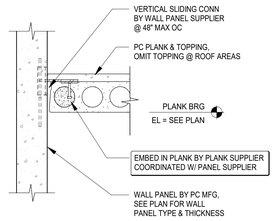

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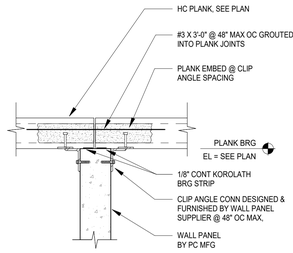

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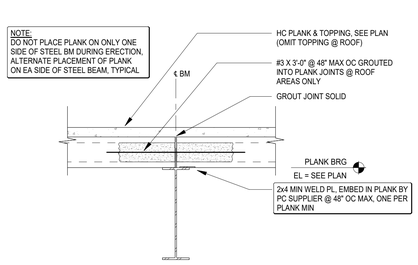

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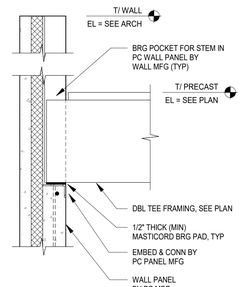

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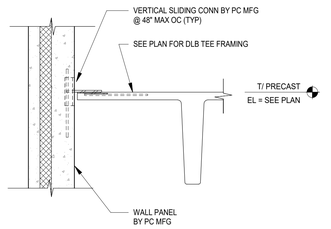

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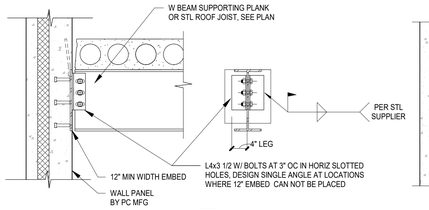
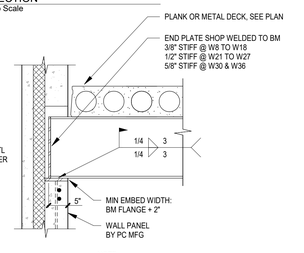


NOTES:
1. DESIGN WALL PANEL AND EMBED FOR SERVICE LOAD REACTION (RXN) IN KIPS SHOWN ON FRAMING PLANS.
2. STL SUPPLIER TO DESIGN BEAM CONN TO EMBED FOR SERVICE LOAD REACTION (RXN) IN KIPS SHOWN ON FRAMING PLANS.
3. POCKET ALL BEAMS WITH REACTIONS EQUAL TO OR GREATER THAN 20 KIPS PER DETAIL 8/S3.0. PRECAST SUPPLIER TO NOTIFY STRUC ENGINEER & STL SUPPLIER AT ANY BEAM LOCATIONS THAT REQUIRE POCKETS & LONGER DETAILED BEAM LENGTHS.

7 SECTION
No Scale



NOTE:
1. DESIGN WALL PANEL AND BEARING PLATE FOR SERVICE LOAD REACTION (RXN) IN KIPS SHOWN ON FRAMING PLANS.

8 SECTION
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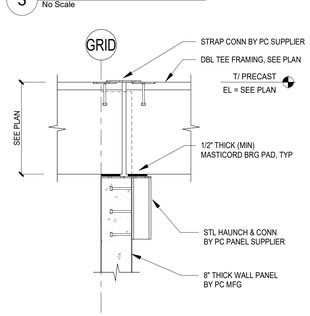

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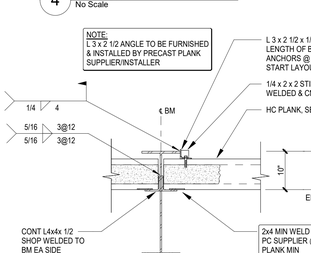

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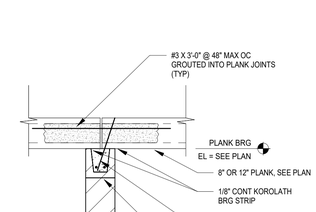

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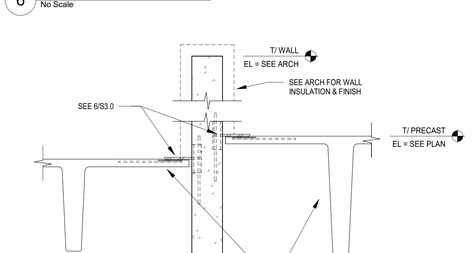

12 SECTION
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13 SECTION
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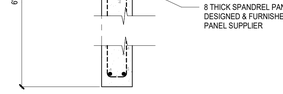

14 SECTION
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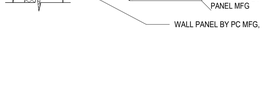

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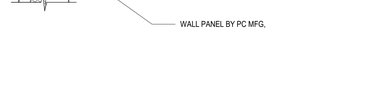

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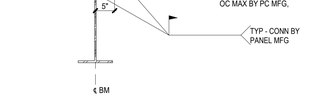

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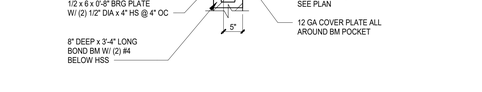

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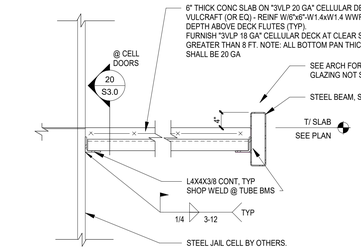

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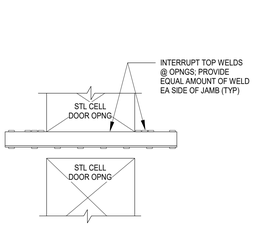

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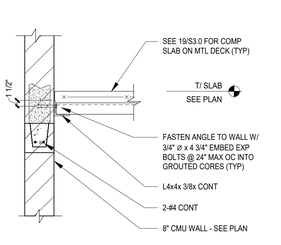

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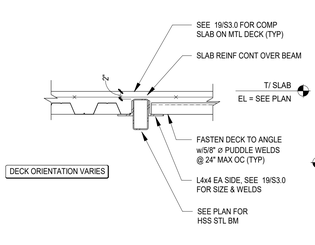

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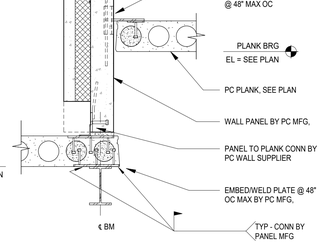

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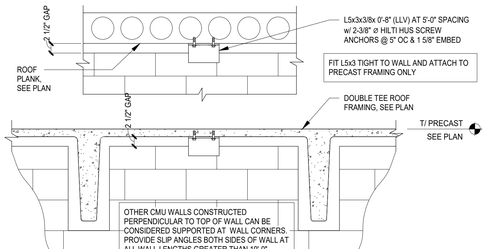

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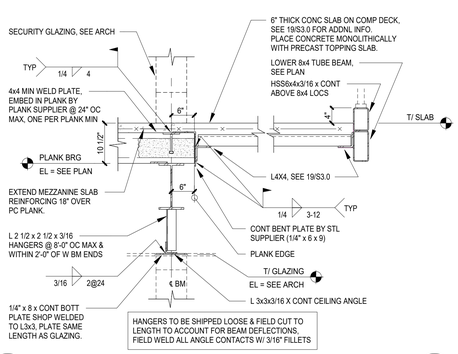
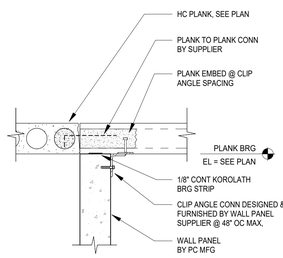


HANGERS TO BE SHIPPED LOOSE & FIELD CUT TO LENGTH TO ACCOUNT FOR BEAM DEFLECTIONS. FIELD WELD ALL ANGLE CONTACTS W/ 3/16" FILLETS

25 SECTION
No Scale



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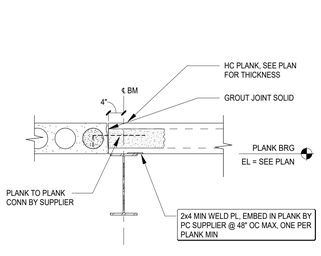

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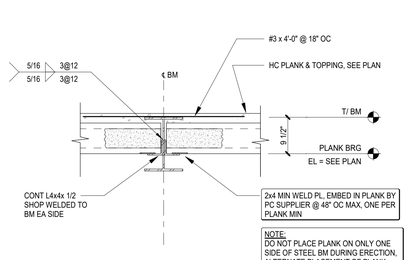
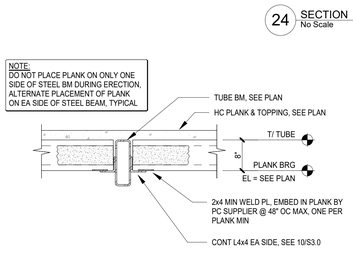


NOTE:
DO NOT PLACE PLANK ON ONLY ONE SIDE OF STEEL BM DURING ERECTION, ALTERNATE PLACEMENT OF PLANK ON EA SIDE OF STEEL BEAM, TYPICAL

28 SECTION
No Scale



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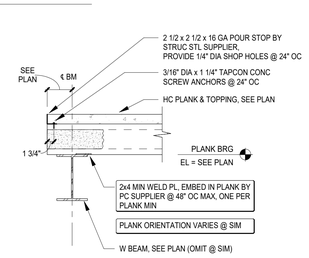

30 SECTION
No Scale

KLEIN
McCARTHY
ARCHITECTS
6465 Wayzata Boulevard, Suite 410
St. Louis Park, MN 55426
952.908.9990 ● www.kleinmccarthy.com

BELTRAMI COUNTY

BELTRAMI COUNTY ADULT CORRECTIONS CENTER

815 PIONEER STREET SE
BEMIDJI, MN

Architect's Project #: 2312.00

Consultants

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321 Beltrami Ave. NW
Bemidji, MN 56601
Telephone: 218-759-9218

Structural
Paulson & Clark Engineering
2352 East County Road J
White Bear Lake, MN 55110
Telephone: 651-407-6056

Mechanical, Electrical, & Security Electronics
EDI-Dsign, Inc.
1112 North 5th Street
Minneapolis, MN 55411
Telephone: 612-343-5965

Food Service Design
Rope Associates
10400 Yellow Circle Dr, Suite 100
Minnetonka, MN 55343
Telephone: 952-933-0313

Fire Protection
EDI-Dsign, Inc.
1112 North 5th Street
Minneapolis, MN 55411
Telephone: 612-343-5965

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Print Name: Troy D. Such
License #: 41374
Date: August 1, 2024

BID DOCUMENTS

August 1, 2024

Item	Description	Date

This sheet may be a Reduced Copy. This drawing is to scale if bar below is 1" long.

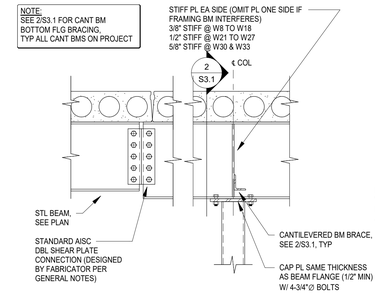
0" 1"

Key Plan

SECTIONS & DETAILS

S3.0

7/31/2024 9:36:28 PM



1 TYP BEAM SPLICE DETAIL
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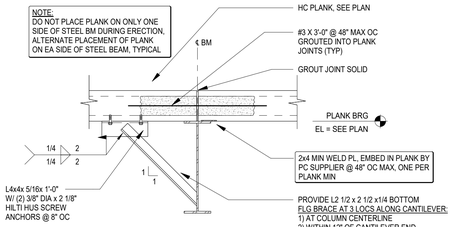

2 SECTION
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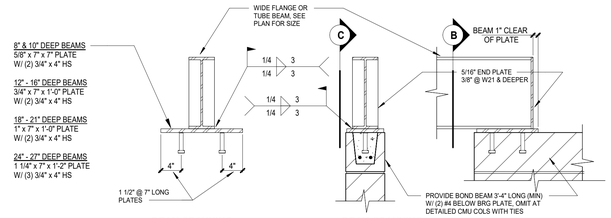
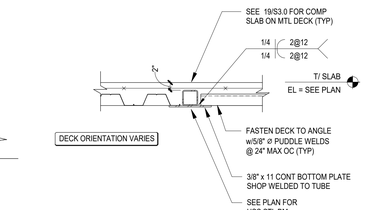


A **BEAM SPANNING PERPENDICULAR TO WALL**
B **BEAM SPANNING PARALLEL TO WALL**
C **ELEVATION**

3 BEAM BEARING PLATE DETAILS
No Scale



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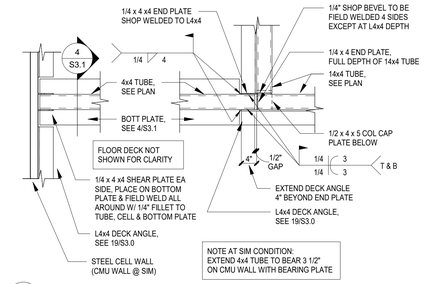

5 PLAN DETAIL
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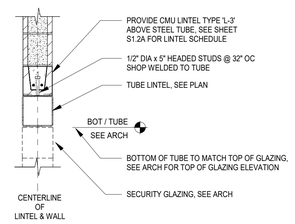

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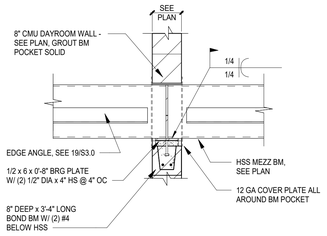

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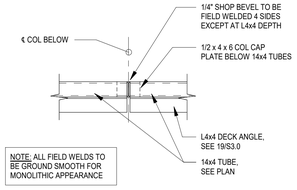

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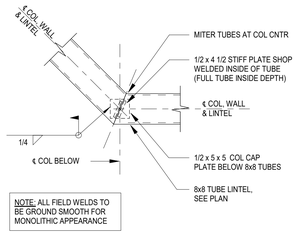

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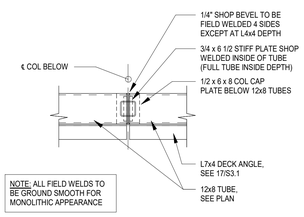

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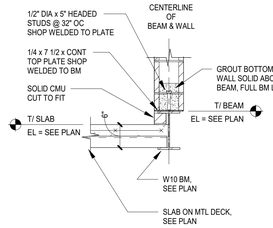

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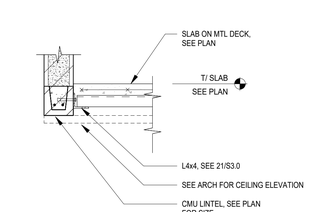

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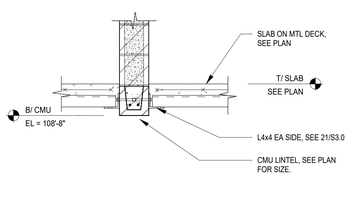

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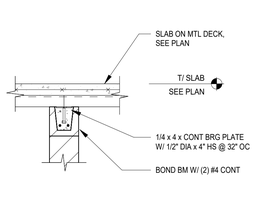

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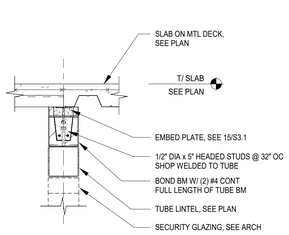

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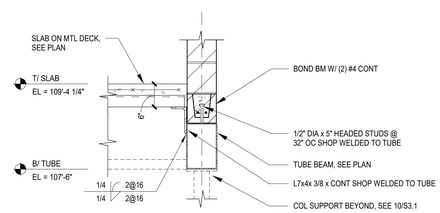

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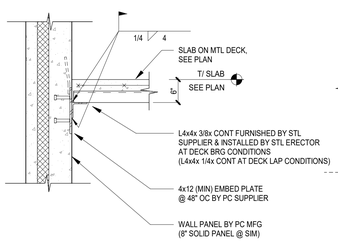

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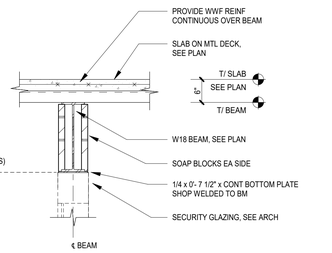

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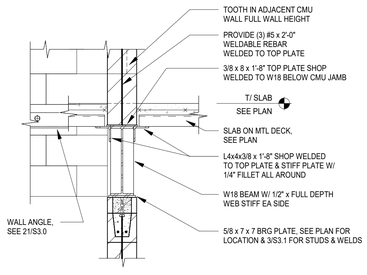

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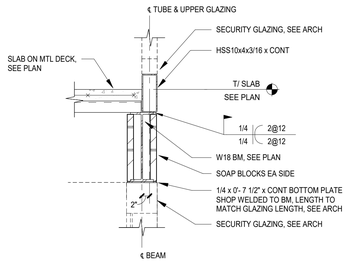

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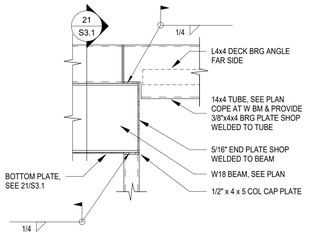

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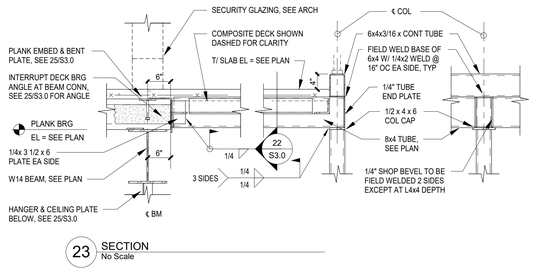

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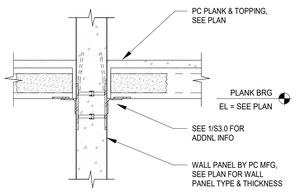

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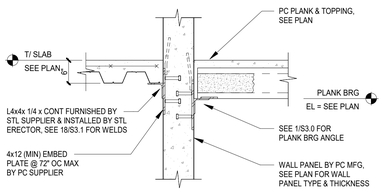

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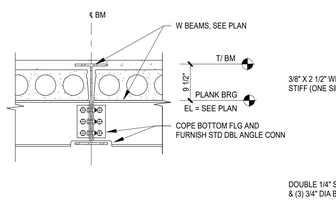

26 SECTION
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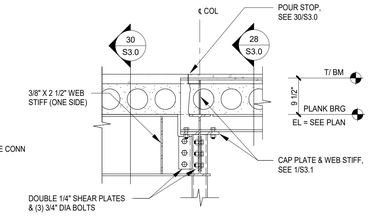

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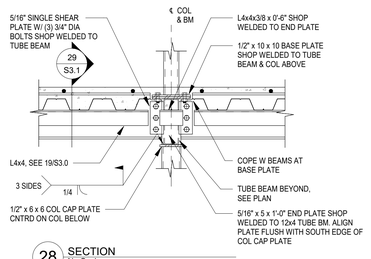

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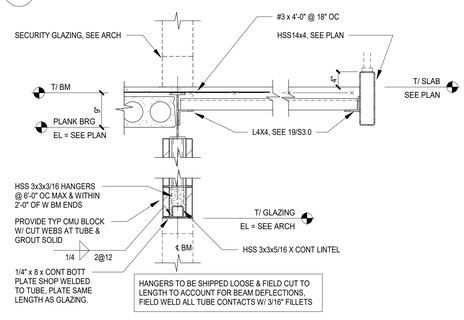

29 SECTION
No Scale

KLEIN
McCARTHY
ARCHITECTS
6465 Wayzata Boulevard, Suite 410
St. Louis Park, MN 55426
952.908.9990 ● www.kleinmccarthy.com

BELTRAMI COUNTY

BELTRAMI COUNTY ADULT CORRECTIONS CENTER

815 PIONEER STREET SE
BEMIDJI, MN

Architect's Project #: 2312.00

Consultants

Civil
Freeberg & Grund
321 Beltrami Ave. NW
Bemidji, MN 56601
Telephone: 218-759-9218

Structural
Paulson & Clark Engineering
2352 East County Road J
White Bear Lake, MN 55110
Telephone: 651-407-6056

Mechanical, Electrical, & Security Electronics
EDI-Dokjo, Inc.
1112 North 5th Street
Minneapolis, MN 55411
Telephone: 612-343-5965

Food Service Design
Rope Associates
10400 Yellow Circle Dr, Suite 100
Minnetonka, MN 55343
Telephone: 952-933-0313

Fire Protection
EDI-Dokjo, Inc.
1112 North 5th Street
Minneapolis, MN 55411
Telephone: 612-343-5965

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Print Name: Troy D. Such
License #: 41374
Date: August 1, 2024

BID DOCUMENTS

August 1, 2024

Item	Description	Date

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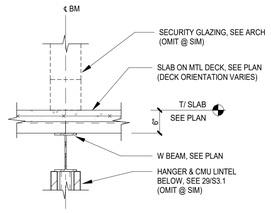
0" 1"

Key Plan

SECTIONS & DETAILS

S3.1

7/31/2024 9:38:32 PM



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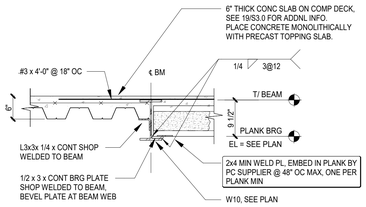

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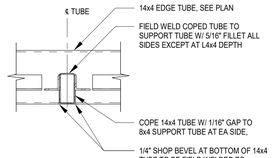

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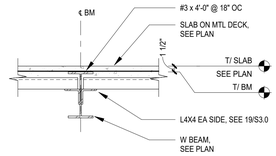

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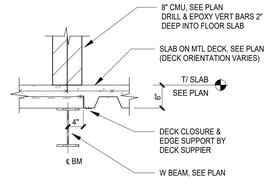

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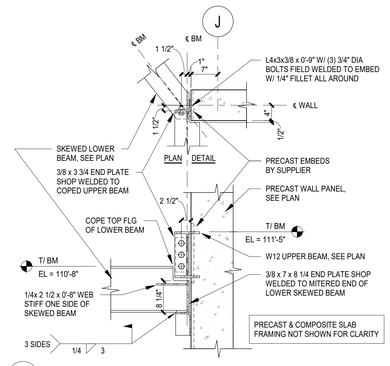

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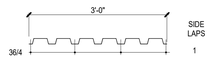
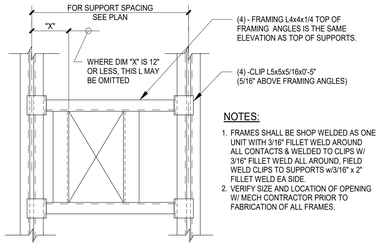


NOTES:

1. ALL CONNECTORS TO SUPPORT MEMBERS SHALL BE 5/8" DIAMETER PUDDLE WELDS (OR 3/8" x 1 1/2") EQUIV SEAM WELDS AT DECK EDGES).
2. ALL CONNECTIONS TO SIDE LAPS SHALL BE #10 TEK SCREWS. PROVIDE NUMBER OF SCREWS BETWEEN SUPPORTS AS INDICATED ABOVE.
3. PROVIDE WELDS @ 12"OC AT ALL PERIMETER EDGES AND AROUND ALL ROOF OPENINGS.

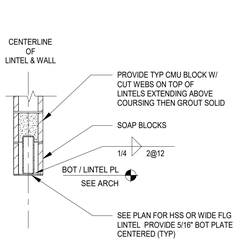
7 TYP ROOF DECK FASTENING DIAGRAM
No Scale



NOTES:

1. FRAMES SHALL BE SHOP WELDED AS ONE UNIT WITH 3/16" FILLET WELD AROUND ALL CONTACTS & WELDED TO CLIPS W/ 3/16" FILLET WELD ALL AROUND, FIELD WELD CLIPS TO SUPPORTS w/3/16" x 2" FILLET WELD EA SIDE.
2. VERIFY SIZE AND LOCATION OF OPENING W/ MECH CONTRACTOR PRIOR TO FABRICATION OF ALL FRAMES.

8 TYP ROOF OPENING FRAME
No Scale



9 SECTION
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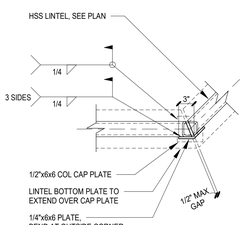

10 PLAN DETAIL
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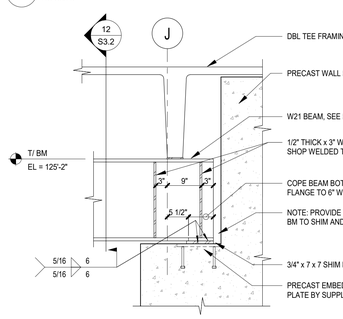

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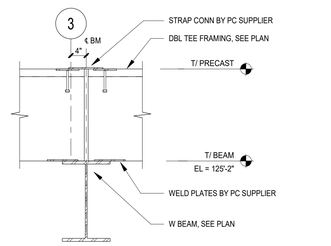

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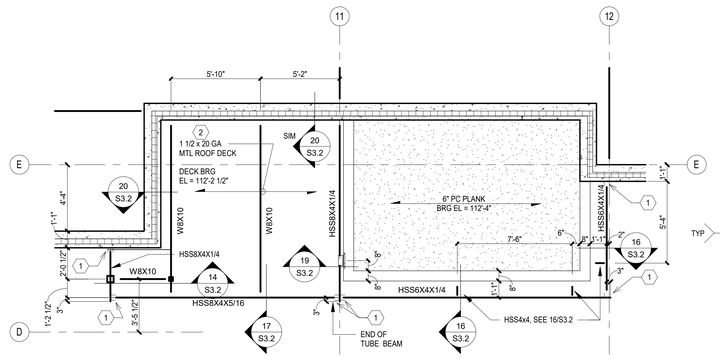
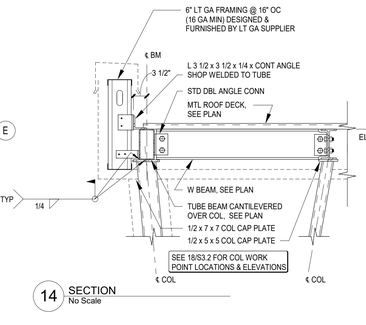


13 SOUTH CANOPY FRAMING PLAN
No Scale

NORTH

KEYED NOTES:

1. PROVIDE 1/4 x 3 1/2 x 6 CONNECTION SIDE PLATES EA SIDE OF TUBE W/ (2) 3/4" DIA THRU BOLTS. SEE 15/S3.2 FOR ADDNL INFO & EMBED AT PRECAST WALL LOCATIONS.
2. SEE 7/S3.2 FOR ROOF DECK FASTENING REQUIREMENTS.



14 SECTION
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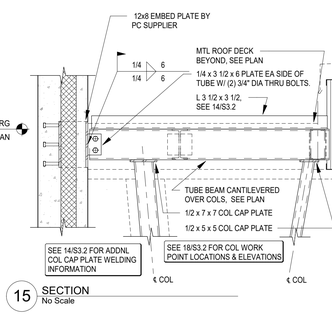

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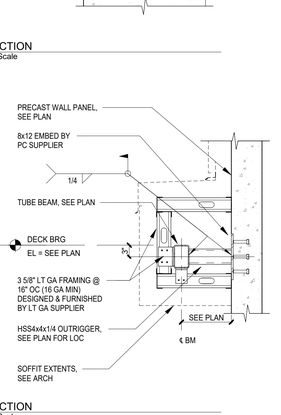

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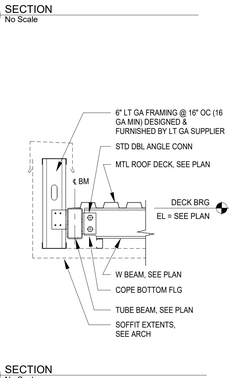

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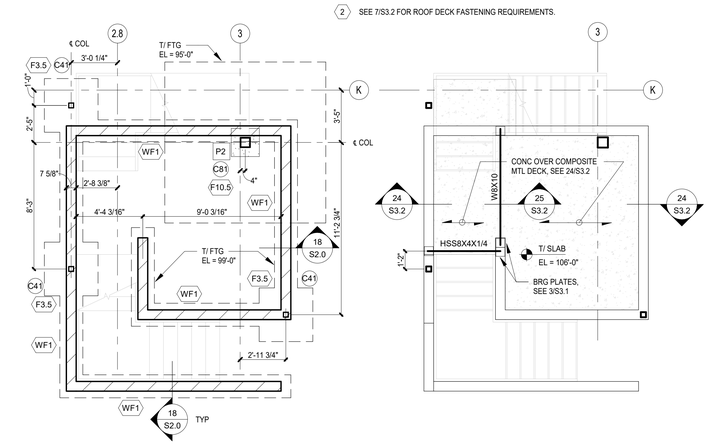
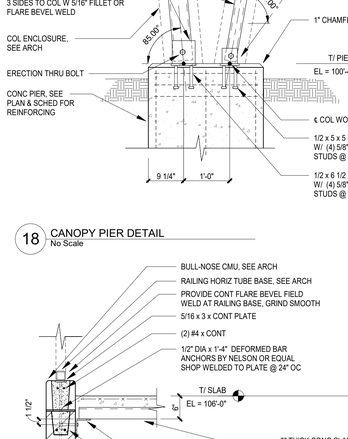


22 PARTIAL FOUNDATION PLAN
No Scale

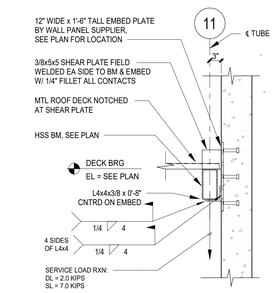
NORTH

23 PARTIAL FRAMING PLAN
No Scale

NORTH



18 CANOPY PIER DETAIL
No Scale



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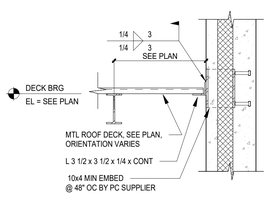

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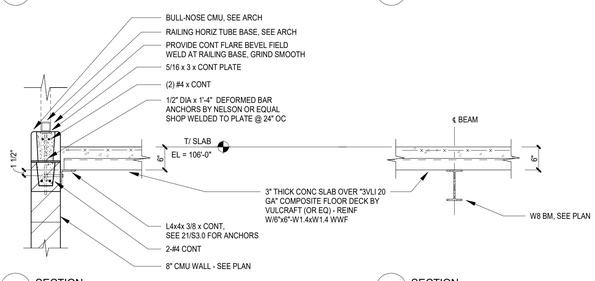

24 SECTION
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25 SECTION
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KLEIN McCARTHY ARCHITECTS
6465 Wayzata Boulevard, Suite 410
St. Louis Park, MN 55426
952.908.9990 ● www.kleinmccarthy.com

BELTRAMI COUNTY

BELTRAMI COUNTY ADULT CORRECTIONS CENTER

815 PIONEER STREET SE
BEMIDJI, MN

Architect's Project #: 2312.00

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Minnetonka, MN 55343
Telephone: 952-933-0313

Fire Protection
EDI-Dokjo, Inc.
1112 North 5th Street
Minneapolis, MN 55411
Telephone: 612-343-5965

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature:
Print Name: Troy D. Such
License #: 41374
Date: August 1, 2024

BID DOCUMENTS

August 1, 2024

Item	Description	Date

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0" 1"

Key Plan

N

SECTIONS, PLANS & DETAILS

S3.2

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KRAUS-ANDERSON®

Kraus-Anderson Construction Company
206 Beltrami Avenue NW, Bemidji, MN 56601

September 16, 2024

Mr. Tom Barry
County Administrator
701 Minnesota Ave. NW Suite 200
Bemidji, MN 56601

RE: Beltrami County Jail Project
Building Envelope Commissioning
Proposals Award Recommendation

Dear Mr. Barry,

Per our previous discussions, we have requested proposals for state code required Building Envelope Commissioning services for the above referenced project, on behalf of Beltrami County. The selected firm should be considered an independent 3rd party, and hired directly by Beltrami County.

Three qualified firms were solicited, of which two responses were received as follows:

1.	**Braun Intertec (St. Paul, MN)**	**$22,183.00**
2.	Lerch-Bates (Eden Prairie, MN)	$23,350.00

After our internal review of the proposals received, it is our **recommendation to award the required services to Braun Intertec** based on required content of services and best value.

Please advise what the County's next steps would be to issue a formal award and contract. Let us know if you have any questions regarding these proposals or our recommendation.

Sincerely,

Steven Trudeau

Steven Trudeau
Senior Project Manager
Kraus-Anderson Construction Company

Cc: Danielle Reid, Klein McCarthy Architects

Trudeau, Steven

From: Rasmussen, Jack
Sent: Tuesday, September 10, 2024 7:55 AM
To: Trudeau, Steven
Subject: Beltrami - BECx RFP Review
Attachments: Beltrami County Jail - Building Envelope Commissioning RFP.pdf; BRAUN - RFP BECx Beltrami Cty Jail 2024-09-09_Signed.pdf; BRAUN - SCOPE LEVEL - Project proposal - QTB202863.pdf; Lerch Bates Submission - Beltrami County Jail - 20240909.pdf

Steve

Attached are the following documents:

- RFP for Building Enclosure Commissioning (Energy Code Required Services only)
- Proposal Response from Lerch Bates
- Proposal Response from Braun Intertec
- Scope Level Adjustment from Braun Intertec

The RFP was sent to three qualified firms: Lerch Bates (Ryan Krug), Braun Intertec (Pamela Jergensen), and Wiss Janey Elstner (WJE, Chelsea Ames). We received proposal responses from Lerch Bates and Braun Intertec; WJE responded stated that they could not meet the project schedule and would not be proposing on this project.

In the RFP responses, one difference between the proposals from Lerch Bates and Braun Intertec was that Lerch Bates proposed attending preinstallation meetings via virtual meeting and Braun Intertec included attending in person, which included additional travel time that was of no added value to the project. I requested that Braun provided an updated pricing sheet to make their preinstallation meetings virtual instead of in-person to level the two proposal responses and make the scopes the same.

Regarding qualifications, as is contained in the proposal responses, both teams have submitted qualified individuals who are capable of completed this project based on length relevant experience, certifications, and project experience examples. (On a side note, I have direct project experience with each person represented in these two responses.)

When comparing the leveled scope and pricing, Braun Intertec is the low price at $22,183 and Lerch Bates at $23,350, with the distinction that Braun Intertec included (6) six site observations and Lerch Bates included (2) two. When incorporating (3) alternate additional site observations for Lerch Bates, it brings their proposed cost to $34,375 with (5) site observations.

Lerch Bates included Alternate pricing for window testing, which was not solicited for but is specified by the Architect. The specifications do not indicate that this is a By Owner provided service, so could be by the Sub-Contractor and included in their Work Scope or By Owner. Braun Intertec is an AAMA-accredited testing agency and could provide this service as well as several other capable testing agencies that we could solicit competitive bids from. I do not recommend that we engage that service now and we do that as part of the Bidding on the Project.

Both firms indicated that if engaged/contracted this week, they could complete their Design Review and Report by October 1, 2024 to be able to meet with us and the Design Team to review comments to be incorporated ahead of the Bid Date in mid-October so there would not require a post-bid Addendum. I would complete my Constructability Review by this date as well.

All said, I would recommend Braun Intertec is retained for this service. Their team is comprised of qualified individuals and they provide added service (ie additional field observations) at a lower fee.

If you have any questions before, during, or after your meeting, please call to discuss. Whichever is selected, I can let them know so they minimally can start scheduling the review time while a contract is executed; and I can also notify the other that they are not selected.

Regards,

Jack

Jack R. Rasmussen, NCARB, AIA*, FMPC, CPHT | Manager, Building Science
jack.rasmussen@krausanderson.com | Cell 651.323.7996

**Licensed Architect in CO, FL, IL, IA, KS, MN, MO, ND, OK, TX, WI*

KRAUS-ANDERSON CONSTRUCTION COMPANY
501 South Eighth Street, Minneapolis, MN 55404
Office 612.332.7281 | Direct 612.336.6503 **krausanderson.com**

Together, strengthening the communities we serve

REQUEST FOR PROPOSAL – BUILDING ENVELOPE COMMISSIONING SERVICES

Beltrami County Jail
Bemidji, MN

BACKGROUND:

Beltrami County is seeking the services of a qualified Building Envelope Commissioning Authority for their new Beltrami County Jail. This project is currently under design.

RFP Schedule:

RFP Response due	**September 9, 2024 – 12:00 P.M.**
Owner Review Complete	September 10, 2024
Design Review Complete	October 1, 2024

Beltrami County Jail

Location:	Bemidji, MN
Approx. sqft of Building:	96,445 sq ft
Approx. Total Construction Budget:	$ 68,400,000
Current Status of Project:	Construction Documents Issued
Milestones:	Construction Start – April, 2025 Construction Completion – February, 2027

SCOPE OF WORK:

The Owner is committed to commissioning these facilities to ensure that the building envelope is complete and functioning properly per design intent and current and applicable Minnesota statutes. The commissioning process shall include performing a design review and systematically verifying and documenting that specified components and systems have been installed properly, and then functionally tested as may be required.

Commissioning services shall be completed in accordance with the 2024 Minnesota Commercial Energy Code (MCEC) and adopted ASHRAE 90.1 Energy Standard including all requirements of the Chapter 4, article 4.2.5 "Verification, Testing, and Commissioning". Commissioning services shall include the requirements of the following articles:

4.2.5.1	Building Systems Verification and Testing Requirements
4.2.5.2	Building Commissioning Requirements
4.2.5.3	Activities Prior to Building Occupancy

The commissioning scope shall include the requirements of article #.9 "Verification, Testing, Commissioning, and Inspection" of the building systems covered under the scope of each of the following ASHRAE 90.1 Energy Standard chapters and as modified by the Minnesota Energy Code amendments:

Chapter 5: Building Envelope

The project design team has selected a continuous air barrier Design and Installation Verification Program per ASHRAE 90.1-2019, Section 5.4.3.1.1, Exception 3 in lieu of Whole Building Air Leakage testing to comply with the air leakage requirements of the MCEC.

COMMISSIONING RESPONSIBILITIES:

Design Phase:

- Complete a project design review and provide a design review report to verify and document compliance of the design with the Owner's Project requirements and provisions of the MCEC.

Construction Phase:

- Attend pre-installation meetings for scopes of work requiring field inspections by the MCEC.
- Review submittals as required to confirm products are in compliance with the design documents and MCEC.
- Provide periodic field inspections of the required components and assemblies of the building envelope to verify compliance with MCEC.

Prior To Issuance of Certificate of Occupancy:

- Develop and submit a preliminary Commissioning Report and all related documentation to the Owner.

Building Turnover/Occupancy Phase:

- Develop and submit a final Commissioning Report including a summary of the commissioning scope, a copy of all generated documentation and associated correspondence, and a copy of all field-testing results.

DESIRED QUALIFICATIONS:

The following is a list of desired qualifications for the Commissioning Authority for this project:

1. Have acted as the Building Envelope Commissioning Authority or part of the team for at least five projects over 70,000 sqft. in size.

2. Have extensive experience in building enclosure design, review, field inspection and testing. Extensive field experience and a minimum of three full years in this type of work are required.

INSTRUCTIONS TO APPLICANTS:

Each applicant must propose to execute all phases of the commissioning in a single proposal.

The proposal shall be limited to 20 single sided pages, including graphics, a letter of introduction, section dividers, detailed resumes, and the Commissioning Firm Experience Form attached to this request for proposals.

The proposal must be signed by an employee of your firm with the authority to commit the firm.

All proposals shall include the following information:

1. List the key individuals who will make up your Commissioning team for this contract and describe each individual's qualifications and experience.

2. Provide project and professional references and experience for three commissioning projects in the last three years. Include a description of the project, including project size, type of building enclosure systems, and systems commissioned. Identify when your firm came into the project and describe the involvement of each individual on the project.

3. Provide a detailed proposed basis for compensation. This section should include a breakdown of all costs that will be associated with the commissioning portion of the project including but not limited to basic fee, travel costs, reimbursables, misc. charges, etc.

4. Ability to meet the Project Schedule.

5. Provide any examples of the following documents that you feel are pertinent to this project:
    a. Design Review Report
    b. Site Observation/Inspection Report
    c. Functional Testing Documentation

****All applicants are encouraged to provide voluntary alternates for any additional services and/or scope of work, not specifically addressed in the Request for Proposals that may be considered to be a benefit to the Owner. The Owner will review these voluntary alternates utilizing the submission and selection criteria as described below for the scope of work specifically described in this Request for Proposals**.

SUBMISSION AND SELECTION

Electronic copies of the proposal should be in PDF form and emailed to the Owner and Kraus Anderson Construction:

Attn:
Mr. Tom Barry
Beltrami County
County Administrator
Tom.Barry@co.beltrami.mn.us

Mr. Steven Trudeau
Kraus Anderson Construction
Sr Project Manager
Steven.Trudeau@krausanderson.com

Mr. Jack Rasmussen
Kraus Anderson Construction
Building Science Manager
Jack.Rasmussen@krausanderson.com

Questions concerning the RFP may be directed to Jack Rasmussen and/or Steven Trudeau of Kraus Anderson Construction Company, the Construction Manager.

RFP Proposals / Responses are due by September 9, 2024 @ 12:00 P.M.

Review and selection process:

The selection process will be based on the information contained in the applicant's response to the RFP including; Project Team qualifications, Company and Team Experience, Costs of Services, and ability to respond to the services requested in the RFP.

After receipt and review of all proposals submitted according to the requirements as defined above, the Owner may contact all or some of the applicants for clarification, additional information, or to arrange personal meeting with an applicant's proposed project team.

It is the Owner's intent to have secured the services of a Commissioning Authority and the Design Review completed by the end of September 2024 to incorporate any comments by the design team for Bidding in October.

Rights Reserved by the Owner:

The Owner reserves the right to waive any irregularities in any proposal, and to select the proposal evaluated to be the most advantageous to the Owner. Further, the Owner

reserves the right to disqualify any proposal, or to reject all proposals if it is deemed to be in its best interest. The Owner reserves the right to negotiate with the selected firm(s) to finalize and refine the fees and project scope.

The Owner shall not be liable for any expenses incurred by the applicant including but not limited to expenses associated with the preparation of the proposals.

The Owner reserves the right to reject any and all proposals, or to request additional information from any or all applicants at any time during the selection process.

Trudeau, Steven

From: Rasmussen, Jack
Sent: Monday, September 9, 2024 3:35 PM
To: Trudeau, Steven
Subject: FW: Beltrami Cty Jail - revised fee proposal
Attachments: Project proposal - QTB202863.pdf

Regards,

Jack

Jack R. Rasmussen, NCARB, AIA*, FMPC, CPHT | Manager, Building Science
jack.rasmussen@krausanderson.com | Cell 651.323.7996

**Licensed Architect in CO, FL, IL, IA, KS, MN, MO, ND, OK, TX, WI*

KRAUS-ANDERSON CONSTRUCTION COMPANY
501 South Eighth Street, Minneapolis, MN 55404
Office 612.332.7281 | Direct 612.336.6503 krausanderson.com

Together, strengthening the communities we serve

From: Jergenson, Pamela <PJergenson@braunintertec.com>
Sent: Monday, September 9, 2024 3:12 PM
To: Rasmussen, Jack <jack.rasmussen@krausanderson.com>
Subject: Beltrami Cty Jail - revised fee proposal

Dear Jack,
The corrected version of our fees attached as per our conversation earlier today. Thanks again!

Thanks,
Pam

BRAUN INTERTEC
The Science You Build On.

Pamela Jergenson, FCSI, CDT, CCS, CCCA, BECxP, CxA+BE, CABS
BECx Technical Manager | Principal Consultant
Building Sciences Group
1826 Buerkle Road |Saint Paul, MN 55110
612.968.1614 mobile
braunintertec.com |Twitter: Braun Intertec | LinkedIn: Braun Intertec

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Project Proposal

QTB202863

Beltrami County Jail

Client:	Work Site Address:	Service Description:
Kraus-Anderson Companies, Inc. Jack Rasmussen 501 South 8th Street Minneapolis, MN 55404 (612) 332-7281		Building Envelope Commissioning

	Description	Quantity	Units	Unit Price	Extension
Phase 1	**Building Enclosure Commisioning**				
Activity 1.1	**Design Phase**				**$2,192.00**
5528	**Bid Document Review**	1.00	Each	1,308.00	$1,308.00
5529	**Bid Document Review Meeting**	1.00	Each	884.00	$884.00
Activity 1.2	**Construction Phase**				**$16,577.00**
5532	**Pre-Installation Meeting (Online)**	3.00	Each	653.00	$1,959.00
5537	**Submittal Review**	1.00	Each	2,300.00	$2,300.00
5534	**Site Observations**	6.00	Each	653.00	$3,918.00
5150	**BaSS Mobilization (Twin Cities Branch)**	6.00	Each	1,400.00	$8,400.00
Activity 1.3	**Pre-Occupancy Phase**				**$1,240.00**
5514	**Commissioning Report**	1.00	Each	1,240.00	$1,240.00
Activity 1.4	**Building Turnover / Occupancy Phase**				**$1,240.00**
5500	**Commissioning Report**	1.00	Each	1,240.00	$1,240.00
Activity 1.5	**Project Management and Reporting**				**$934.00**
170	**Project Control Specialist**	3.00	Hour	186.00	$558.00
168	**Project Assistant**	4.00	Hour	94.00	$376.00
				Phase 1 Total:	**$22,183.00**

Proposal Total:	**$22,183.00**

Trudeau, Steven

From: Jergenson, Pamela <PJergenson@braunintertec.com>
Sent: Monday, September 9, 2024 12:42 PM
To: tom.barry@co.beltrami.mn.us; Trudeau, Steven; Rasmussen, Jack
Subject: New Beltrami Jail Building Envelope Commissioning Services RFP response
Attachments: RFP BECx Beltrami Cty Jail 2024-09-09_Signed.pdf

Attached is our response to the RFP for Building Envelope Commissioning Services. Pardon our delay. We appreciate your patience and the opportunity!

Thanks,
Pam

BRAUN INTERTEC
The Science You Build On.

Pamela Jergenson, FCSI, CDT, CCS, CCCA, BECxP, CxA+BE, CABS
BECx Technical Manager | Principal Consultant
Building Sciences Group
1826 Buerkle Road |Saint Paul, MN 55110
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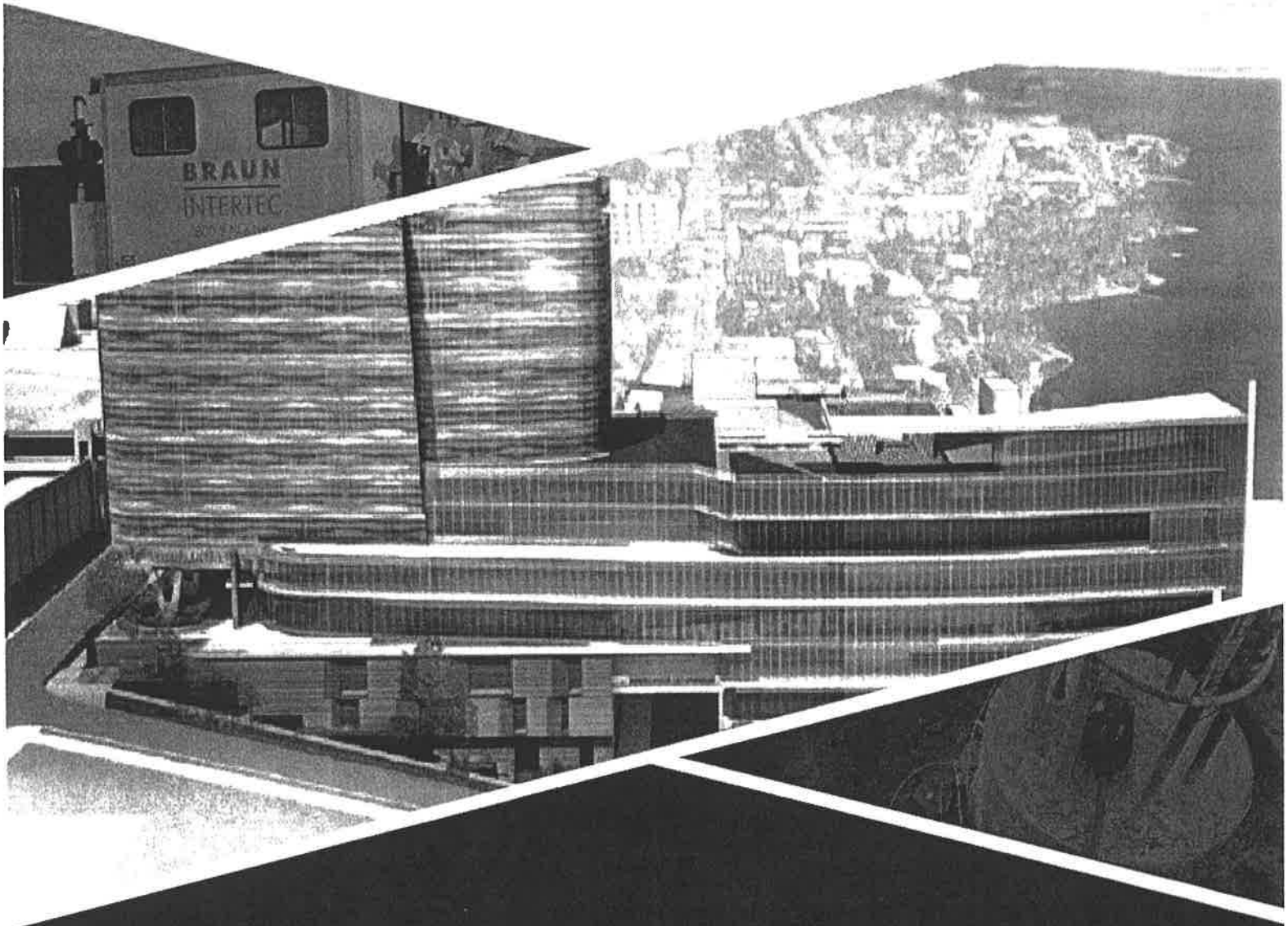


Beltrami County

New Beltrami County Jail

Request for Proposal:
Building Envelope Commissioning (BECx) Services

September 9, 2024 (9/25/2024 REVISED)

BRAUN INTERTEC
The Science You Build On.

Braun Intertec Corporation
11001 Hampshire Ave S
Bloomington, MN

Phone: 952.995.2000
Fax: 952.995.202
Web: braunintertec.com

Mr. Tom Barry, County Administrator
Beltrami County
Tom.Barry@co.beltrami.mn.us

Mr. Steven Trudeau, Senior Project Manager
Kraus-Anderson Construction
Steven.Trudeau@krausanderson.com

Mr. Jack Rasmussen, Building Science Manager
Kraus-Anderson Construction
Jack.Rasmussen@krausanderson.com

Re: Request for Proposal (RFP)
Third-party Commissioning Services
Building Envelope Commissioning (BECx)
New Beltrami County Jail
Bemidji, MN

Dear Mr. Barry, Mr. Trudeau, and Mr. Rasmussen:

Braun Intertec Corporation is pleased to present this RFP response to Beltrami County and Kraus-Anderson Construction. This response contains the required information for Building Envelope Commissioning as a part of the 2024 Minnesota Commercial Energy Code (MCEC) and adopted ASHRAE 90.1 Energy Standard, select articles from Chapters 4 and 5 for the building referenced above. We are professionally qualified to provide Building Envelope Commissioning (BECx) services for the New Beltrami County Jail in Bemidji, Minnesota. Our Building Sciences Group has over 170 years of extensive experience with varying size projects focused on building enclosures, hospitals and clinics, and other sectors as listed in our project experience. Our team is available to start the project and meet the project schedule of the Design Review by October 1, 2024.

Available Information

This response was prepared using the following information:

- Request for Proposal (RFP) - as referenced above
- Bid Documents – dated August 1, 2024

General

Braun Intertec appreciates the opportunity to present this RFP response. As a Building Enclosure Process Provider (BECxP), I will be the contact regarding building enclosure commissioning during the New Beltrami County Jail. If you have any questions or require further information, please feel free to call me at 612.968.1614 or email me at PJergenson@braunintertec.com.

Sincerely,

BRAUN INTERTEC CORPORATION

Pamela Jergenson, FCSI, CDT, CCS, CCCA, BECxP, CxA+BE, CABS
BECx Technical Manager, Principal Consultant

Ryan Lamoureux, CCM
Senior Manager, Senior Consultant

We have included the Braun Intertec General Conditions in Appendix C, which provide additional terms and are a part of our agreement. If anything in this proposal is not consistent with your requirements, please let us know immediately. Braun Intertec will not release any written reports until we have received a signed agreement. Responsibility for payment will be the Authorizing Firm. If this Authorizing Firm is different than whom the proposal is addressed to, please notify us prior to execution of this agreement.

The proposal is accepted, and you are authorized to proceed.

Authorizer's Firm

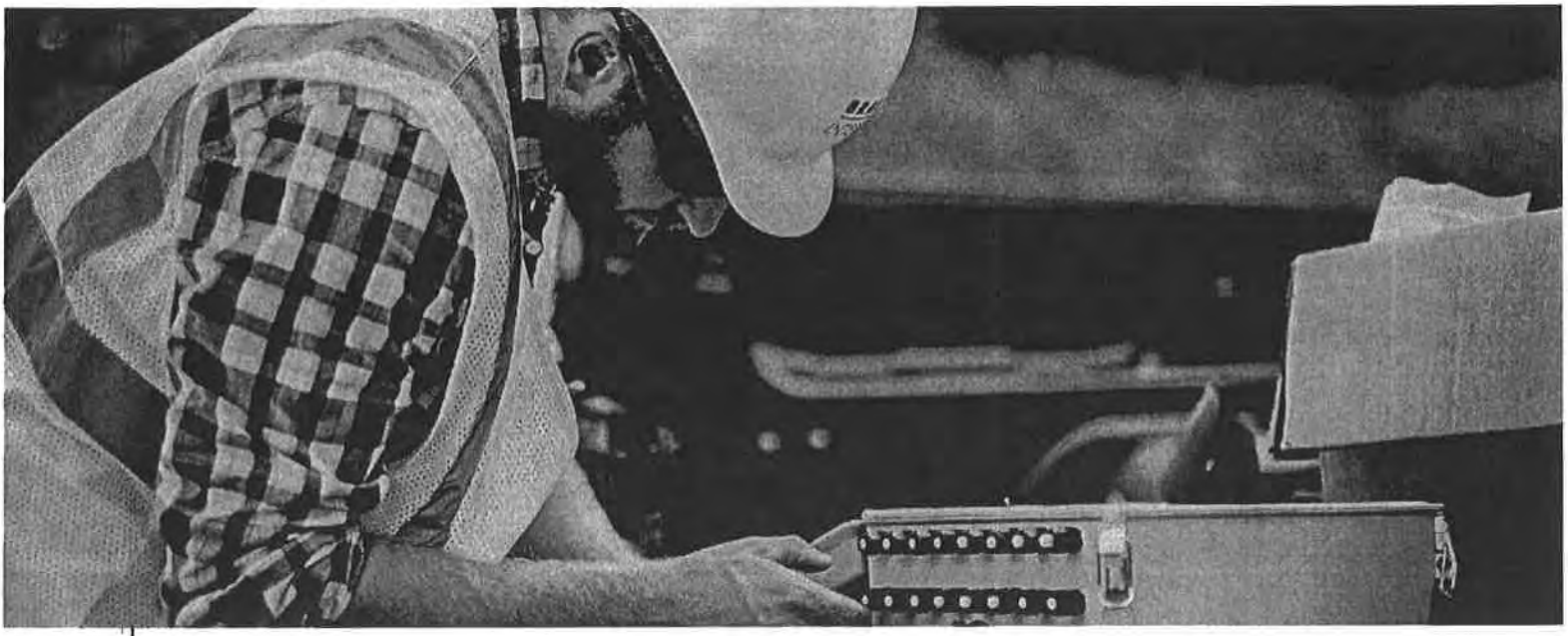
Authorizer's Signature

Authorizer's Name (please print or type)

Authorizer's Title

Date

TABLE OF CONTENTS



1 PROJECT TEAM

GENERAL

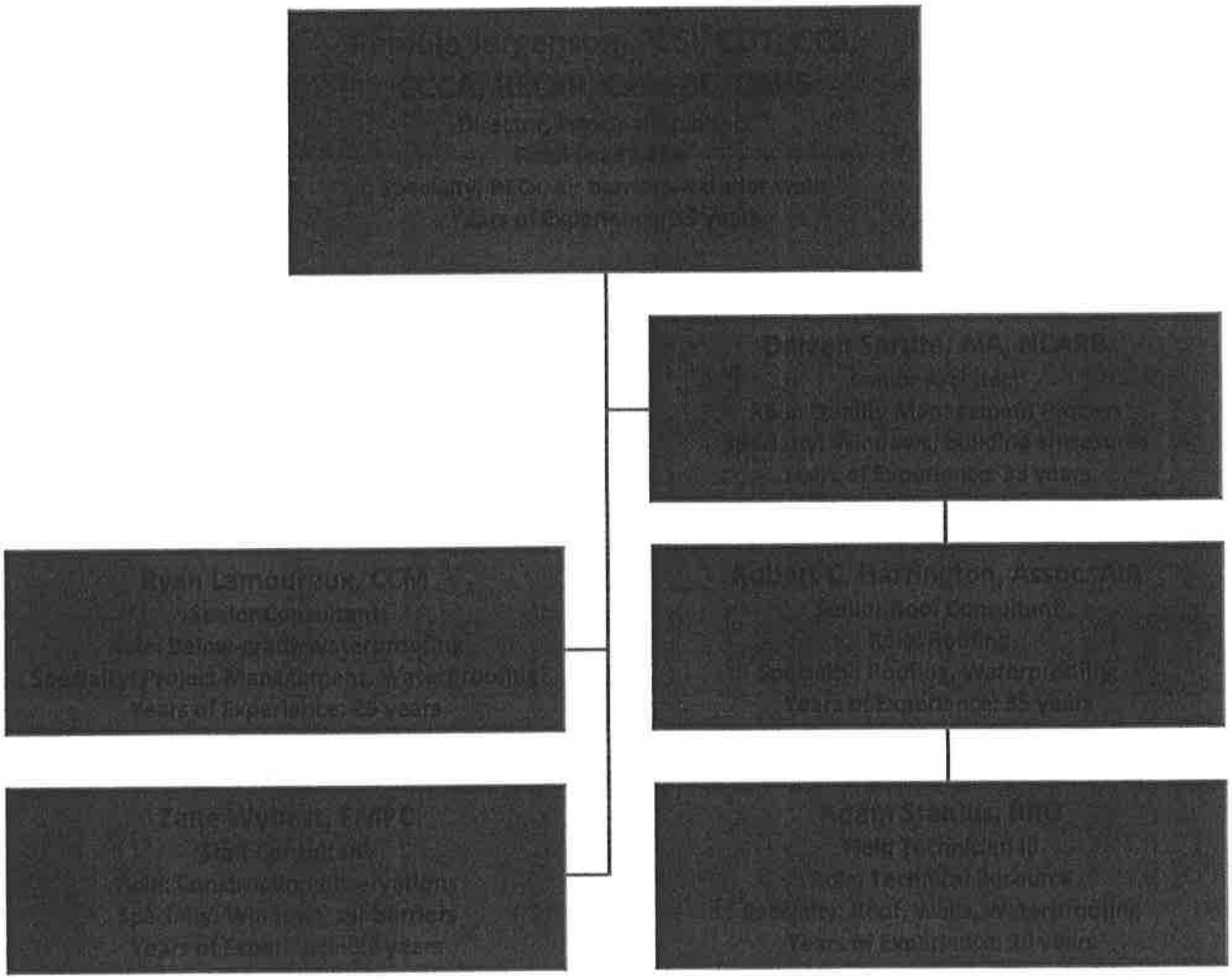
Building Enclosure Commissioning (BECx) Services are provided by the Braun Intertec Building Sciences Group based in Minneapolis, Minnesota. The Building Sciences Group is an interdisciplinary team of men and women that are Registered Architects, Professional Engineers, Consultants, and Field Technicians with certifications as Building Enclosure Commissioning Agent (BECxP, CxA+BE), Registered Roof Observer (RRO), Registered Exterior Wall Observer (REWO), Certified EIFS Inspectors (CEI), FenestrationMaster Professional (FMPC) and Certified Infrared Thermographers (CIT); to name some of our certifications. Aside from these certifications, each member of our interdisciplinary team has a specialty building enclosure system expertise of the following: Roofing, exterior walls, fenestrations (windows, doors, and louvers), water-resistive barrier (WRB), air barriers, and below-grade waterproofing.

Braun Intertec's experience in BECx services cover all of the various building enclosure systems: under-slab, below-grade waterproofing, exterior walls, air barriers, roofs, fenestrations, and louvers. Our BECx services are customized for each project to meet the new 2024 Minnesota Commercial Energy Code. In addition to new construction and renovation projects, we are also involved with the management, assessment, forensic and testing of structures and their systems and components. This background provides us with the knowledge and basis to make decisions related to materials and building enclosure systems with a proven track record. Our goal is to provide you with performing building enclosure systems that meet the Owner's Project Requirements and Basis of Design.

We have assembled an experienced team that has the skills required for the scope of this project with over 170 years of combined experience in design, consulting, and field services.

Team Matrix

Below is the Team we have assembled for this project. We intend to keep these key staff associated with the New Beltrami Jail project through the duration of the project.



Team Members and Experience

Pamela Jergenson, FCSI, CDT, CCS, CCCA, BECxP, CxA+BE, CABS
BECx Technical Manager, Principal Consultant
Braun Intertec Corporation, St. Paul Office

Project Role: Lead Building Enclosure Commissioning Agent, exterior walls consultant and specialist in air barriers and building science.
Education: Interior Design Associates Degree, Alexandria Technical and Community College, Alexandria, MN; Whole Building Air Tightness, Air Barrier Association of America; and WUFI Pro
Certifications: Building Enclosure Commissioning Process Provider (BECxP, CxA+BE, University Wisconsin, Madison), Certified Air Barrier Specialist (CABS) and Licensed Air Barrier Field Auditor (Air Barrier Association of America), Certified Construction Document Technologist (CDT), Certified Construction Specifier (CCS), and Certified Construction Contract Administrator (CCCA, Construction Specifications Institute), and Fellow (Construction Specifications Institute)
Professional Affiliations: ABAA (Air Barrier Association of America), ASTM, BEC/MN (Building Enclosure Council of Minnesota), CSI (Construction Specifications Institute), NAWIC (National Association of Women In Construction), and The Masonry Society.
Years Experience: 33 years in building enclosures, a total of 39 years in construction.
Years with Braun Intertec: 4+ years.
Previous employment: Inspec, Inc.

Project experience with Building Enclosure Commissioning, Minnesota B3 Guidelines, and ASHRAE 90.1-2019:

- Addition and Renovation, Koochiching County Jail & Sheriff Addition, International Falls, MN - Building enclosure consultant per ASHRAE 90.1-2019, Section 5.4.3.1.1, Exception 3, air barrier design and construction verification of a one- and two-story addition with single-ply roof, precast tilt-up and brick masonry exterior walls, and storefront windows for the building owner. Services provided: Third-party design review, periodic construction observations, air barrier adhesion and air leakage testing, whole building air tightness testing, and window testing. (Summer 2024, construction start July 2024)
- New Cancer Center Addition, Lakewood Health System Hospital and Clinic, Staples, MN - Building enclosure commissioning agent for Owner with subcontractor MEP commissioning agent, Efficiency Commissioning, LLC. See Firm Experience for more detail. (Fall 2023 to present)
- Microbial Cell Production Facility, University of Minnesota, St. Paul Campus – Minnesota B3 building enclosure consultant to the Owner of new construction for a two-story laboratory. See Firm Experience for more detail. (Summer 2021 to Summer 2024).
- Brainerd State Hospital Building 21, Brainerd, MN – Window replacement commissioner for Minnesota State Real Estate and Construction Services of a one-story building with mechanical penthouse. Services provided: Design phase review of site conditions, attend design meetings, and review of construction documents for window replacement and tuckpointing project. Construction phase services of attend progress meetings, review of mockup, perform and document periodic construction observations, witness window testing, and project closeout. Contact: Bill Scalzo, Scalzo Architects, Ltd.; P 218.722.4319, email wscalzo@scalzoarchitects.com (Fall 2023 to present, construction completion Spring 2024)
- Brainerd State Hospital Building 20, Brainerd, MN – Window replacement commissioner for Minnesota State Real Estate and Construction Services of a one-story building. Services provided: Design phase review of site conditions, attend design meetings, and review of construction documents for window replacement and tuckpointing project. Construction phase services of attend progress meetings, review of mockup, perform and document periodic construction observations, witness window

testing, and project closeout. Contact: Bill Scalzo, Scalzo Architects, Ltd.; P 218.722.4319, email wscalzo@scalzoarchitects.com (Summer 2021 – Fall 2022)

- Giants Ridge Recreational Center, State of Minnesota, Biwabik, MN – Building enclosure consultant for Minnesota B3 Guidelines on a one-story building with steep sloped shingled roof, fiber-cement siding, and aluminum-framed storefront windows. Interior spaces include a pool and hot tub area, community spaces, and sauna out-buildings. Services Provided: Develop the Basis of Design in regard to the Owner's Project Requirements, write the building enclosure commissioning plan, review the documents at two design phases, and provide functional testing requirements for the field quality control in the project manual.Services pending construction start: Conduct building enclosure-related portions of the pre-bid and pre-construction meetings, review and comment on related submittals, prepares and tracks construction checklists, conduct periodic building enclosure commissioning progress meetings, perform periodic construction observations, provide field reports of observations and witnessing functional testing, maintain the discrepancy log, perform construction phase closeout, and conduct post construction phase walkover and reporting. Contact: Terry Helland, RSP Architects, P 612.677.7188, email terry.helland@rsparch.com (Fall 2023 through Spring 2025).
- Bertha Sadler Means Young Womens' Learning Academy, Austin, TX – Building enclosure commissioner to the building owner for a campus of three interconnected buildings of one- to three-stories with single-ply and metal roofs, brick and metal wall panel exterior walls, punch-type windows, aluminum framed storefront and curtain wall. Services provided: Design reviews at 5 design points and construction observations. (Spring 2024 to present, construction start 2025)
- Burton and Virgina Myers Education Center, University of Minnesota Landscape Arboretum, Chaska, MN – B3 Building enclosure consultant to the Owner of new construction for a single story structure with a gabled standing seam metal roof, composite vertical board and batten siding, and aluminum storefront windows and doors. Services provided: review of the project plans, specifications, and details at the Design Development and Construction Document Phases. Contact: Emily Roland, Project Manager, University of Minnesota, P 612.626.1720, email eroland@umn.edu (Summer 2022)
- Fort McCoy Transient Barracks FY19, Fort McCoy, WI – Building Enclosure Commissioner per USACE requirements for General Contractor of four-story barracks with a steep-sloped roof, brick masonry exterior walls, and punch-type windows. Services provided: Prepare, maintain, and submit building enclosure checklist; perform and report on mockup air barrier construction, conduct and document periodic construction observations of building enclosure systems, conduct air barrier adhesion tests, observe and document whole building testing and infrared scan, attend online progress meetings, and verified final submittal of building enclosure checklist. (Fall 2020 – Fall 2021).
- North Segment Community Center, New Town, ND – Building enclosure consultant for a one- and two-story building with a building enclosure of EPDM and standing seam metal roofs; brick, metal panel cladding, aluminum lap siding, and translucent panels on the exterior walls; and aluminum storefront and curtainwall windows. The building interior spaces included a waterpark, gym, playground, locker rooms, kitchens, offices, and community rooms. Services provided: Third-party review at 90% Construction Document phase. (Fall 2022)

Darren Sprute, AIA, NCARB
Senior Architect (MN License 3140)
Braun Intertec Corporation, Bloomington Office

Project Role: Quality Management Process Reviewer, specialist in architecture and windows.
Education: B.S. Environmental Design and B. of Architecture, North Dakota State University; and WUFI Pro
Years Experience: 33 years as a Licensed Architect/Intern Architect.
Years with Braun Intertec: 2-1/2 years.
Previous employment: Inspec, Inc.
Project experience: See resume in Appendix

Robert Harrington, Assoc. AIA
Senior Roof Consultant, Building Envelope Consultant
Braun Intertec Corporation, Bloomington Office

Project Responsibility: Specialist in roofs
Years Experience: 35 years as an Architect.
Years with Braun Intertec: 10 years.
Previous employment: Inspec, Inc.
Project experience: See resume in Appendix

Ryan Lamoureux, CCM
Senior Manager, Senior Consultant
Braun Intertec Corporation, Bloomington Office

Project Responsibility: Specialist in below-grade waterproofing
Years Experience: 25 years in construction of below-grade waterproofing and concrete.
Years with Braun Intertec: 4+ years.
Previous employment: Self-employed contractor
Project experience: See resume in Appendix

Zane Wybest, FMPC
Staff Consultant
Braun Intertec Corporation, Bloomington Office

Project Responsibility: Field technician, as needed.
Years Experience: 10+ years in fenestration system and component testing, a total of over 20 years in construction.
Years with Braun Intertec: 5+ years.
Previous employment: Intertek as a Field and Lab Technician
Project experience: See resume in Appendix

Adam Stanius, RRO
Field Service Technician III, Registered Roof Observer
Braun Intertec Corporation, Bloomington Office

Project Responsibility: Field Service Technician and roof and wall specialist
Project experience: See resume in Appendix

FIRM EXPERIENCE

Project: **Koochiching County Jail & Sheriff Addition**
International Falls, MN

Description: Two-story, 25,000 square foot addition with a EPDM roof, precast plank and brick veneer, metal panel entry canopy, and aluminum-framed storefront and curtain wall.

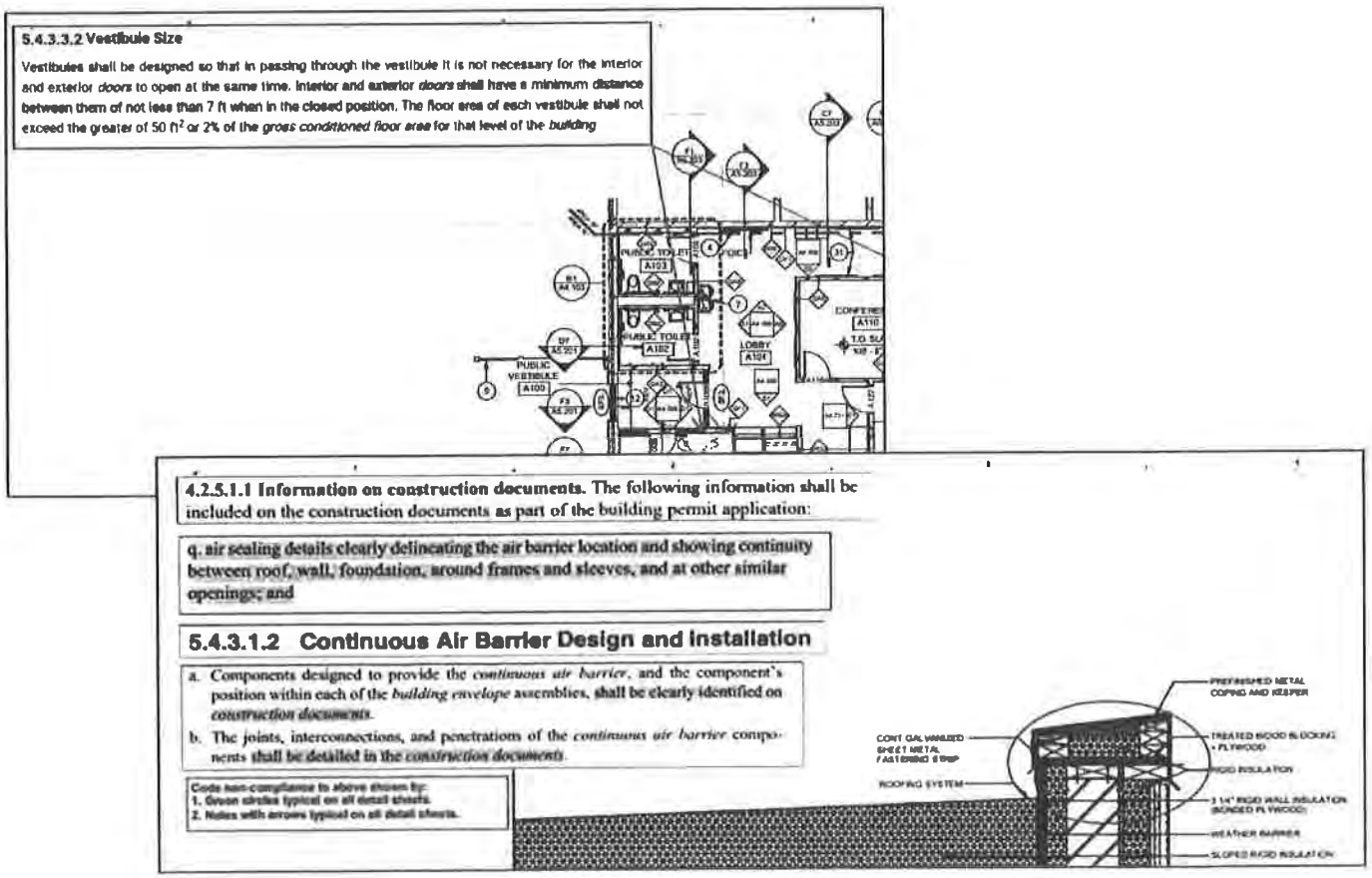
Completed: (currently under construction)

Services provided:

Building Enclosure (BECx) Services to meet Minnesota Energy Code 2024, following ASHRAE 90.1-2019 with MN addenda.
Design review of Permit Set documents for the roof, exterior walls, fenestrations, under-slab, and below-grade waterproofing.

Braun Intertec staff:

Pam Jergenson, Lead BECx
Darren Sprute, Quality review and window systems review
(Field staff to be determined)



Project: **New Cancer Center Addition**
Lakewood Health System Hospital and Clinic
Staples, MN

Description: Addition consists of one-story, 20,000 square foot building with EPDM roof, brick masonry veneer and metal wall panel, glazed aluminum curtain walls, and hollow metal doors.

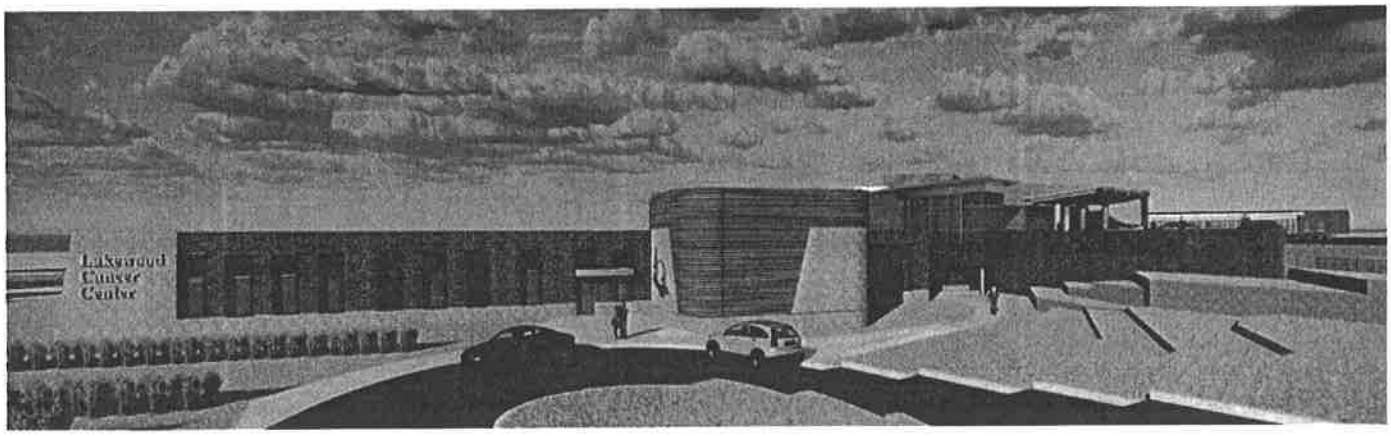
Completed: Design phase Spring 2024
Construction start July 2024, anticipating 12 months

Contact: DuWayne Jones AIA, LEED AP, GGP
P 651.290.1994, M 612.387.9046, DJones@bwbr.com
BWBR Architects, Inc.
380 St. Peter Street, Suite 600
St. Paul, MN 55102

Services provided:
Building Enclosure (BECx) and MEP Commissioning Services to meet Minnesota Energy Code 2024 (following ASHRAE 90.1-2019 with MN addenda)
Design review at two design phases for the roof, exterior walls, fenestrations, below-grade waterproofing, mechanical, electrical, and plumbing systems.

Braun Intertec staff:
Pam Jergenson, Lead BECx
Darren Sprute, Reviewer and Quality Control

Subconsultant for Mechanical, Electrical and Plumbing systems:
Javier Navar Payan, MSME, P.E., BCxP, CEM, BECxP, CxA+BE
651-706-5329, jnavar@efficiencycx.com



Project: **Microbial Cell Production Facility**
University of Minnesota
St. Paul Campus

Description: New construction two-story, 85,000 square foot laboratory and penthouse with built-up roof membrane, brick masonry veneer and metal wall panel, glazed aluminum curtain walls, louvers, and hollow metal doors.

Completed: Summer 2024

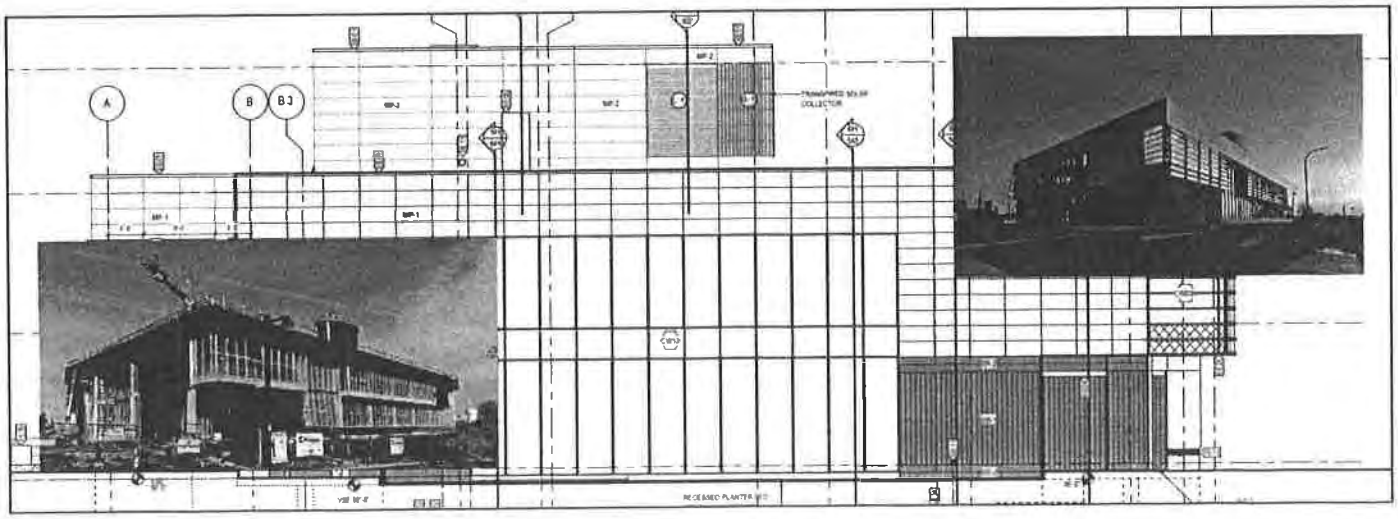
Contact: Erik Ibs-Wadman, Project Manager
P 612-626-0085, wadma008@umn.edu
University of Minnesota
Capital Project Management
400 Donhowe Building
319 - 15th Ave. SE
Minneapolis, MN 55455

Services provided:

Building enclosure consultant to meet Minnesota B3 Guidelines
Design Development and Construction Document phase reviews and meetings
Construction phase submittal review, progress meeting attendance, air barrier periodic observations, dry mil thickness measurements, and air leakage testing, window periodic observations and witness testing, and roof full-time observations.

Braun Intertec staff:

Pam Jergenson, Lead BECx, air barrier observations and air leakage testing
Darren Sprute, building enclosure systems periodic observations
Bob Harrington, roof full-time observations
Zane Wybest, window observations
Derrick Cox and Tim Williams, dry mil thickness measurements



Project: **Essentia Health Vision Northland**
St. Mary's Medical Center & Essentia Health Duluth
Duluth, MN

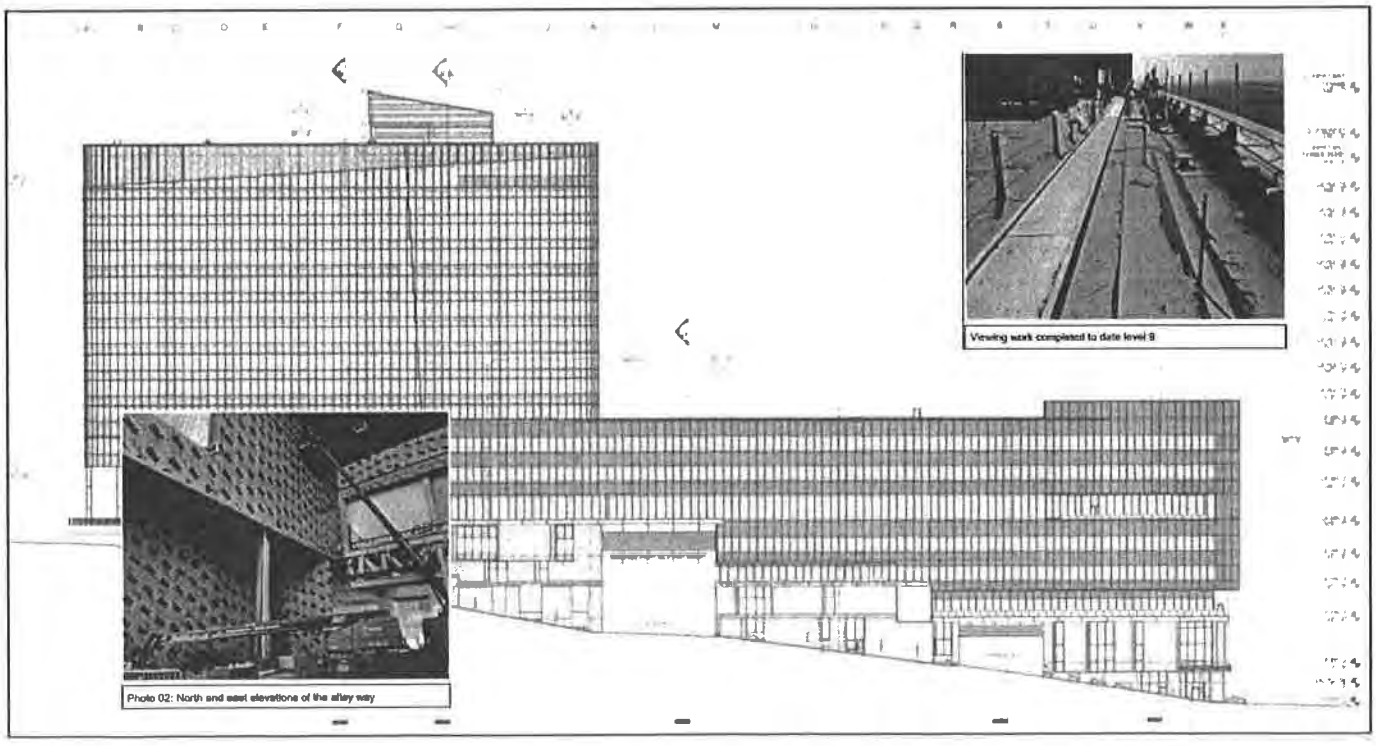
Description: New construction of 815,000 square feet (and renovation) with Single-ply roof, brick masonry veneer, metal wall panels, and curtain wall windows

Completed: Summer 2023

Contact: Dan Cebelinski, System Vice President Facilities Services
218.828.7315, 218.786.8376
Essentia Health
502 East Second Street
Duluth, MN

Services provided:
Building enclosure consulting for air barriers, curtain wall, and roofs. Performed construction observations, air barrier testing, curtain wall testing, roof observations, and infrared.

Braun Intertec staff:
Matthew Anderson, Lead Building Enclosure Consultant, construction observations and testing
Pam Jergenson, air barrier observation and testing assistant



3 Appendix

A Professional Resumes

B Fee Proposal (with breakdown)

C General Conditions (1/1/18)

BRAUN INTERTEC

PAMELA C. JERGENSON, FCSI, CDT, CCS, CCCA, BECxP, CxA+BE, CABS

Principal Consultant

EDUCATION

Interior Design Associates Degree, Alexandria Technical Institute

General and Psychology courses, Metro State Univeristy

WUFI Pro and Flixo

CERTIFICATIONS

Construction Document Technologist (CDT)

Certified Construction Specifier (CCS)

Certified Construction Contract Administrator (CCCA)

Building Enclosure Commissioning Process Provider (BECxP)

Accredited Commissioning Authority + Building Enclosure (CxA+BE)

Certified Air Barrier Specialist (Cert. No. 30884)

ABAA Licensed Field Auditor (License No. 10180)

PROFESSIONAL AFFILIATIONS

Construction Specifications Institute (CSI)

Air Barrier Association of America (ABAA)

Minnesota Building Enclosure Council (BEC Minnesota)

The Masonry Society (TMS)

National Association of Women in Construction (NAWIC)

Ms. Jergenson is the Building Enclosure Commissioning Technical Manager and a Principal Consultant in the Building and Structure Sciences Group at Braun Intertec. She is a building enclosure consultant for building owners, architects, and contractors in a variety of sectors. Pam has over 30 years in investigation, testing, survey, design, construction observation, construction contract administration, and enclosure commissioning of new and existing building enclosure projects; with expertise in exterior walls. In addition to the certifications listed in the left margin, Pam is ABAA trained under the Whole Building Airtightness Training Program and a Certified Speaker with Air Barrier Association of America (ABAA).

PROJECT EXPERIENCE

- *Microbial Cell Production Facility, University of Minnesota, St. Paul Campus* – B3 Building enclosure consultant to the Owner of new construction for a three-story laboratory with clay brick masonry, metal wall panels, curtain wall windows, and EPDM roof. Services provided: Design phase document review, air barrier observations and testing, window observations and testing, and roof observations for compliance with Minnesota B3 Requirements. (Summer 2021 and Summer 2024)
- *Cedar Creek Classroom Expansion, University of Minnesota, Bethel, MN* – B3 Building enclosure consultant to the Owner on the addition to the one-story Lindeman Center Building at the Cedar Creek Ecosystem Science Reserve. Services provided: Design review of the Design Development and Construction Document phases, site observations, and consultation during construction. (Summer 2023 – Summer 2024)
- *Burton and Virginia Myers Education Center, University of Minnesota Landscape Arboretum, Chaska, MN* – B3 Building enclosure consultant to the Owner of new construction for a single-story structure with a gabled standing seam metal roof, composite vertical board and batten siding, and aluminum storefront windows and doors. Services provided: review of the project plans, specifications, and details at the Design Development and Construction Document Phases. (Summer 2022)
- *Brainerd State Hospital Building 21, Brainerd, MN* – Window replacement commissioner for Minnesota State Real Estate and Construction Services of a one-story building. Services provided: Design phase reviews and design meetings, construction mockup observations and progress meetings, and project closeout. (Fall 2023 – ongoing)

**While employed by another firm.*

BRAUN INTERTEC

DARREN D. SPRUTE, AIA, NCARB

Senior Architect

EDUCATION

B.S. Environmental Design
North Dakota State University

B. of Architecture
North Dakota State University

WUFI Pro

PROFESSIONAL REGISTRATIONS

Licensed Architect – MN

PROFESSIONAL AFFILIATIONS

American Institute of Architects

Mr. Sprute is a Senior Architect in the Building and Structure Sciences Group at Braun Intertec. Darren is a licensed Architect with over 30 years of experience in the Design and Construction Industry on a wide variety of small and large-scale projects. He has nearly 10 years of experience with Building Envelope Consulting including design, detailing, investigations, surveys, construction observation, and contract administration, with an emphasis on curtain walls and aluminum windows.

PROJECT EXPERIENCE

- *Metropolitan State University-Exterior Wall Assessments, St. Paul, MN**— Exterior wall condition assessments, including masonry, EIFS, curtain wall, aluminum windows and sealant of Founders Hall, St. John's Hall, New Main and Library buildings with reports. (July 2021 – October 2021)
- *Duluth Denfeld High School-Clock Tower Masonry Repair and Roof Replacement, Duluth, MN**— Roof and pyramid replacement, masonry repair and rehabilitation for the clock tower element. Provided design and detaining for masonry repairs and maintenance, coordination of contractors and façade access for the Owner. (May 2021 – October 2021)
- *Itasca Community College-Davies Hall Roof Replacement and Exterior Wall Rehabilitation, Grand Rapids, MN**— Replacement of selected metal roofs and existing wood casement punched openings with a new curtain wall system. Spot tuck pointing and brick replacement to rehabilitate observed masonry deficiencies. Provided design and detailing of window replacement and masonry repair bidding documents, assistance with bidding and contractor selection process and construction observation and administration services. (February 2021 – October 2021)
- *Vicksburg Crossing Apartments-Window Replacement, Plymouth, MN**— Replacement of nearly all windows with new casement and double hung windows. Provided design and detailing of window replacement bidding documents, assistance with bidding and contractor selection process and construction observation and administration services. (August 2020 – October 2021)

**While employed by another firm.*

BRAUN INTERTEC

ROBERT C. HARRINGTON

Senior Consultant

EDUCATION

B.A., Architecture,
University of Minnesota

B.A., Environmental Design,
University of Minnesota

CERTIFICATIONS

Freezer/Cooler Design

Ives Training & Compliance Group, Inc., Aerial Boom Lifts Scissors Certified Operator No. 54

Fall Protection Training

PROFESSIONAL AFFILIATIONS

American Institute of Architects

National Roofing Contractors Association

As a consultant in the building and structure sciences group, Mr. Harrington works with clients to form a relationship and create solutions for their unique building envelope issues. He has surveyed and evaluated the condition of many facilities roof and wall systems with a strong knowledge in asset management. He has also provided forensic evaluation and investigation for a wide variety of clients and homeowners.
He has a bachelor's degree in Architecture and Environmental Design and has met the requirements to obtain his Associate AIA. Bob has provided design, consultation services and served as an expert for numerous architects, engineers, attorneys, and other design professionals nationwide over the past 30 years. He has extensive experience with built-up, single-ply, modified bitumen, architectural metal, structural metal, shingle, tile, and slate roofing systems. He also has experience with various waterproofing, masonry, stucco, and metal wall systems.

PROJECT EXPERIENCE

- *State of Minnesota-MCF Shakopee, MN*—Provided consultation and construction administration services for a reroofing project for the Novello Building.
- *Dakota County-Empire Transportation Center, Rosemount, MN*—Provided design and construction administration services for a reroofing project at the Fleet Maintenance Building.
- *General Mills, Golden Valley, MN*-- Provided design and construction administration services for reroofing projects at the JFB Building and Computer Center.
- *Doran Companies, Woodbury Village Mall, Woodbury, MN*—Provided design and construction administration services for multiple years, multiple large reroofing projects.
- *St. Paul Public Housing Authority, Mt. Airy Homes, St. Paul, MN*—Provided design and construction administration services for multiple years, on a large exterior restoration, window replacement and reroofing project.
- *University of Minnesota, Multiple Campuses, MN** — Provided survey, design and construction administration services for multiple roof, wall and waterproofing projects including Weisman Art Museum, Rapson/Engineering links, Tate Sciences, Mayo Hospitals, Moos Towers, Plaza Waterproofing, Diehl Hall, Glensheen Mansion, Crops Services, Wiley Hall and Blegen Hall.

**While employed by another firm.*

BRAUN INTERTEC

RYAN LAMOUREUX, CCM

Senior Manager, Senior Consultant

PROFESSIONAL REGISTRATIONS

Licensed Building Contractor
MN DLI #QB648753

Licensed Lead Risk Assessor
MN Department of Health
#LR5350 (inactive)

CERTIFICATIONS

Certified Construction Manager (CCM) #25936

Blower Door Equipment Training,
The Energy Conservatory

Analyzation and Installation of Helical Piles
Pier Tech Systems

Certified Residential Home Inspector
Kaplan Professional Schools

PROFESSIONAL AFFILIATIONS

International Institute of Building Enclosure Consultants, IIBEC #53667

Mr. Lamoureux is part of the Building and Structure Sciences Group at Braun Intertec. Ryan has over 15 years of experience in new and existing construction projects, communications, and construction project management.

As a Senior Manager of the Building Sciences Group, he coordinates activities of the Building Enclosure Consultants, Operations Supervisors, and Field Technicians. He is also one of the team's lead Project Client Communicators (PCC). As the PCC he is the point of contact for client communications, contract administration, project management, quality control oversight, and coordinates professional services, project schedules, and personnel.

As a Building Enclosure Consultant, Ryan evaluates the condition of existing buildings through forensic investigations. He also provides site investigations and testing of existing buildings and observes installation of building envelope components such as air and weather barriers, below grade waterproofing, and tests the installation of new construction assemblies. He can provide reports, drawings, and specifications of corrective measures as necessary.

PROJECT EXPERIENCE

- *Upper Post Flats, Fort Snelling, Dominium Construction and Architectural Services, St. Paul, MN – Technician to the Developer of 26 historic buildings of clay brick masonry with stone accents, double hung windows, and steep and flat roofs. Services provided: Modified air leakage testing with smoke pencil and infrared thermography of select units in buildings to meet modified Minnesota State Code requirements. (Summer 2022 and ongoing)*
- *Caraway Westend, GS-INVREG Wayzata Owner, LLC, St. Louis Park, MN - On-site waterproofing and roofing observations, daily reporting, quality control reviews of daily field reports, participated in project team meetings, and was the lead project manager for all building enclosure observation and testing services and activities on the project.*
- *Mankato State University (MnSCU), Trafton Envelope Improvements, Mankato, MN – One of the Senior Consultants on the project and onsite waterproofing observations, daily reporting, quality control reviews of daily field reports, participated in project team meetings, and was the lead project manager.*

BRAUN INTERTEC

ADAM STANIUS, RRO

Field Service Technician III

Mr. Stanius is a Field Service Technician at Braun Intertec. Adam has over 20 years of testing, survey, construction observation, and drafting of new and existing building enclosure projects; with expertise in roofing. Adam is a Registered Roof Observer with the International Institute of Building Enclosure Consultants (IIBEC).

EDUCATION

Mechanical Design Technology
Associates Degree
Hennepin Technical College

Construction Management courses
Inver Hills Community College

CERTIFICATIONS

Registered Roof Observer
(Registration Number 2063)

OSHA-10 Construction

OSHA-30 Construction

Fall Protection Certified

Elevated Work Platform Certified

Boom Lift Certified

PROJECT EXPERIENCE

- *Xcel Energy Service Center, Chanhassen, MN* – Services provided: Construction observation and window testing services. (Fall 2023 and ongoing)
- *Saint Paul Public Housing Agency, Central Duplexes Modernization, Various Sites, St. Paul, MN* – Services provided: Assessed sloped roof assemblies for drafting and design. (Summer 2023)
- *Xcel Energy Chestnut Service Center, Minneapolis, MN* – Services provided: Construction observation and window testing services. (Summer 2023)
- *Dakota Magic Casino, Hankinson, ND* – Services provided: Construction observation. (Summer 2023)
- *Minnesota State Colleges and Universities, Various Campuses, MN** — Services provided: roof condition survey, infrared imaging. (Summer 2022)
- Mesabi Range College, F1 & F2 Roof Replacement, Virginia, MN* – Services provided: Construction observation. (Summer 2022)

**While employed by another firm.*

BRAUN INTERTEC

ZANE WYBEST, FMPC

Staff Consultant

EDUCATION

B.S. in Building Sciences and Technology
University of Minnesota – Twin Cities

CERTIFICATIONS

FenestrationMasters® Professional Certification (FMPC)

Fall Protection Training

Elevated Work Platform Certified

Boom Lift Certifications

Global Harmonized System (GHS)

Zane Wybest is a Staff Consultant in the Building and Structure Sciences Group at Braun Intertec. He has 20 years of experience in the construction industry with more than 10 years of experience in fenestration system and component testing. In addition to his work testing fenestration products, he also provides QA/QC observations and testing of various building envelope components such as air barriers, waterproofing, and roofing systems.

FENESTRATION TESTING

- The Larking, Minneapolis, MN
- Lakehaus, Minneapolis, MN
- St. Cloud VA Health Care, St. Cloud, MN
- The Rowan, Eagan, MN
- Bridgewater Bank, St. Louis Park, MN

ELECTRIC LEAK DETECTION (ELD) TESTING

- RBC Gateway, Minneapolis, MN
- Titletown, Green Bay, WI
- The Bower, Edina, MN

WATER INTRUSION INVESTIGATIONS

- Quora Education Center, Roseville, MN
- Alina Health, River Falls, MN
- Clearview Elementary School, Clearlake, MN
- Gustavus Adolphus College – Nobel Hall, St. Peter, MN

AIR BARRIER CONSULTING AND OBSERVATIONS

- Rogers High School, Rogers, MN
- Blaine High School, Blaine, MN
- Mt. Olivet West Campus Expansion, Victoria, MN
- The Berkman Apartments, Rochester, MN

WATERPROOFING CONSULTING AND OBSERVATIONS

- Anoka High School, Anoka, MN
- Scott County Government Center, Shakopee, MN
- Metro Transit Bus Garage, Minneapolis, MN
- Aspire at City Place, Woodbury, MN

ROOFING CONSULTING AND OBSERVATIONS

- Shakopee Mdewakanton Sioux Community, Scott County, MN
- Southwest Logistics, Shakopee, MN

BRAUN INTERTEC
The Science You Build On.

Project Proposal

QTB202863

Beltrami County Jail

Client:	Work Site Address:	Service Description:
Kraus-Anderson Companies, Inc. Jack Rasmussen 501 South 8th Street Minneapolis, MN 55404 (612) 332-7281		Building Envelope Commissioning

	Description	Quantity	Units	Unit Price	Extension
Phase 1	**Building Enclosure Commisioning**				
Activity 1.1	**Design Phase**				**$2,192.00**
5528	Bid Document Review	1.00	Each	1,308.00	$1,308.00
5529	Bid Document Review Meeting	1.00	Each	884.00	$884.00
Activity 1.2	**Construction Phase**				**$16,577.00**
5532	Pre-Installation Meeting (Online)	3.00	Each	653.00	$1,959.00
5537	Submittal Review	1.00	Each	2,300.00	$2,300.00
5534	Site Observations	6.00	Each	653.00	$3,918.00
5150	BaSS Mobilization (Twin Cities Branch)	6.00	Each	1,400.00	$8,400.00
Activity 1.3	**Pre-Occupancy Phase**				**$1,240.00**
5514	Commissioning Report	1.00	Each	1,240.00	$1,240.00
Activity 1.4	**Building Turnover / Occupancy Phase**				**$1,240.00**
5500	Commissioning Report	1.00	Each	1,240.00	$1,240.00
Activity 1.5	**Project Management and Reporting**				**$934.00**
170	Project Control Specialist	3.00	Hour	186.00	$558.00
168	Project Assistant	4.00	Hour	94.00	$376.00
				Phase 1 Total:	**$22,183.00**

Proposal Total:	**$22,183.00**

General Conditions

BRAUN INTERTEC

Section 1: Agreement

1.1 Our agreement with you consists of these General Conditions and the accompanying written proposal or authorization ("Agreement"). This Agreement is the entire agreement between you and us. It supersedes prior agreements. It may be modified only in a writing signed by us, making specific reference to the provision modified.

1.2 The words "you," "we," "us," and "our" include officers, employees, and subcontractors.

1.3 In the event you use a purchase order or other documentation to authorize our scope of work ("Services"), any conflicting or additional terms are not part of this Agreement. Directing us to start work prior to execution of this Agreement constitutes your acceptance. If, however, mutually acceptable terms cannot be established, we have the right to terminate this Agreement without liability to you or others, and you will compensate us for fees earned and expenses incurred up to the time of termination.

Section 2: Our Responsibilities

2.1 We will provide Services specifically described in this Agreement. You agree that we are not responsible for services that are not expressly included in this Agreement. Unless otherwise agreed in writing, our findings, opinions, and recommendations will be provided to you in writing. You agree not to rely on oral findings, opinions, or recommendations without our written approval.

2.2 In performing our professional services, we will use that degree of care and skill ordinarily exercised under similar circumstances by reputable members of our profession practicing in the same locality. If you direct us to deviate from our recommended procedures, you agree to hold us harmless from claims, damages, and expenses arising out of your direction. If during the one year period following completion of Services it is determined that the above standards have not been met and you have promptly notified us in writing of such failure, we will perform, at our cost, such corrective services as may be necessary, within the original scope in this Agreement, to remedy such deficiency. Remedies set forth in this section constitute your sole and exclusive recourse with respect to the performance or quality of Services.

2.3 We will reference our field observations and sampling to available reference points, but we will not survey, set, or check the accuracy of those points unless we accept that duty in writing. Locations of field observations or sampling described in our report or shown on our sketches are based on information provided by others or estimates made by our personnel. You agree that such dimensions, depths, or elevations are approximations unless specifically stated otherwise in the report. You accept the inherent risk that samples or observations may not be representative of things not sampled or seen and further that site conditions may vary over distance or change over time.

2.4 Our duties do not include supervising or directing your representatives or contractors or commenting on, overseeing, or providing the means and methods of their services unless expressly set forth in this Agreement. We will not be responsible for the failure of your contractors, and the providing of Services will not relieve others of their responsibilities to you or to others.

2.5 We will provide a health and safety program for our employees, but we will not be responsible for contractor, owner, project, or site health or safety.

2.6 You will provide, at no cost to us, appropriate site safety measures as to work areas to be observed or inspected by us. Our employees are authorized by you to refuse to work under conditions that may be unsafe.

2.7 Unless a fixed fee is indicated, our price is an estimate of our project costs and expenses based on information available to us and our experience and knowledge. Such estimates are an exercise of our professional judgment and are not guaranteed or warranted. Actual costs may vary. You should allow a contingency in addition to estimated costs.

Section 3: Your Responsibilities

3.1 You will provide us with prior environmental, geotechnical and other reports, specifications, plans, and information to which you have access about the site. You agree to provide us with all plans, changes in plans, and new information as to site conditions until we have completed Services.

3.2 You will provide access to the site. In the performance of Services some site damage is normal even when due care is exercised. We will use reasonable care to minimize damage to the site. We have not included the cost of restoration of damage in the estimated charges.

3.3 You agree to provide us, in a timely manner, with information that you have regarding buried objects at the site. We will not be responsible for locating buried objects at the site. *You agree to hold us harmless, defend, and indemnify us from claims, damages, losses, penalties and expenses (including attorney fees) involving buried objects that were not properly marked or identified or of which you had knowledge but did not timely call to our attention or correctly show on the plans you or others furnished to us.*

3.4 You will notify us of any knowledge or suspicion of the presence of hazardous or dangerous materials present on any work site or in a sample provided to us. You agree to provide us with information in your possession or control relating to such materials or samples. If we observe or suspect the presence of contaminants not anticipated in this Agreement, we may terminate Services without liability to you or to others, and you will compensate us for fees earned and expenses incurred up to the time of termination.

3.5 Neither this Agreement nor the providing of Services will operate to make us an owner, operator, generator, transporter, treater, storer, or a disposal facility within the meaning of the Resource Conservation Recovery Act, as amended, or within the meaning of any other law governing the handling, treatment, storage, or disposal of hazardous substances. *You agree to hold us harmless, defend, and indemnify us from any damages, claims, damages, penalties or losses resulting from the storage, removal, hauling or disposal of such substances.*

3.6 Monitoring wells are your property, and you are responsible for their permitting, maintenance, and abandonment unless expressly set forth otherwise in this Agreement.

3.7 You agree to make all disclosures required by law. In the event you do not own the project site, you acknowledge that it is your duty to inform the owner of the discovery or release of contaminants at the site. *You agree to hold us harmless, defend, and indemnify us from claims, damages, penalties, or losses and expenses, including attorney fees, related to failures to make disclosures, disclosures made by us that are required by law, and from claims related to the informing or failure to inform the site owner of the discovery of contaminants.*

Section 4: Reports and Records

4.1 Unless you request otherwise, we will provide our report in an electronic format.

4.2 Our reports, notes, calculations, and other documents and our computer software and data are instruments of our service to you, and they remain our property. We hereby grant you a license to use the reports and related information we provide only for the related project and for the purposes disclosed to us. You may not transfer our reports to others or use them for a purpose for which they were not prepared without our written approval. *You agree to indemnify, defend, and hold us harmless from claims, damages, losses, and expenses, including attorney fees, arising out of such a transfer or use.*

4.3 If you do not pay for Services in full as agreed, we may retain work not yet delivered to you and you agree to return to us all of our work that is in your possession or under your control.

4.4 Samples and field data remaining after tests are conducted and field and laboratory equipment that cannot be adequately cleansed of contaminants are and continue to be your property. They may be discarded or returned to you, at our discretion, unless within 15 days of the report date you give us written direction to store or transfer the materials at your expense.

4.5 Electronic data, reports, photographs, samples, and other materials provided by you or others may be discarded or returned to you, at our discretion, unless within 15 days of the report date you give us written direction to store or transfer the materials at your expense.

Section 5: Compensation

5.1 You will pay for Services as stated in this Agreement. If such payment references our Schedule of Charges, the invoicing will be based upon the most current schedule. An estimated amount is not a firm figure. You agree to pay all sales taxes and other taxes based on your payment of our compensation. Our performance is subject to credit approval and payment of any specified retainer.

5.2 You will notify us of billing disputes within 15 days. You will pay undisputed portions of invoices upon receipt. You agree to pay interest on unpaid balances beginning 30 days after invoice dates at the rate of 1.5% per month, or at the maximum rate allowed by law.

5.3 If you direct us to invoice a third party, we may do so, but you agree to be responsible for our compensation unless the third party is creditworthy (in our sole opinion) and provides written acceptance of all terms of this Agreement.

5.4 Your obligation to pay for Services under this Agreement is not contingent on your ability to obtain financing, governmental or regulatory agency approval, permits, final adjudication of any lawsuit, your successful completion of any project, receipt of payment from a third party, or any other event. No retainage will be withheld.

5.5 If you do not pay us in accordance with this Agreement, you agree to reimburse all costs and expenses for collection of the moneys invoiced, including but not limited to attorney fees and staff time.

5.6 You agree to compensate us in accordance with our Schedule of Charges if we are asked or required to respond to legal process arising out of a proceeding related to the project and as to which we are not a party.

5.7 If we are delayed by factors beyond our control, or if project conditions or the scope or amount of work changes, or if changed labor conditions result in increased costs, decreased efficiency, or delays, or if the standards or methods change, we will give you timely notice, the schedule will be extended for each day of delay, and we will be compensated for costs and expenses incurred in accordance with our Schedule of Charges.

5.8 If you fail to pay us in accordance with this Agreement, we may consider the default a total breach of this Agreement and, at our option, terminate our duties without liability to you or to others, and you will compensate us for fees earned and expenses incurred up to the time of termination.

5.9 In consideration of our providing insurance to cover claims made by you, you hereby waive any right to offset fees otherwise due us.

Section 6: Disputes, Damage, and Risk Allocation

6.1 Each of us will exercise good faith efforts to resolve disputes without litigation. Such efforts will include, but not be limited to, a meeting(s) attended by each party's representative(s) empowered to resolve the dispute. Before either of us commences an action against the other, disputes (except collections) will be submitted to mediation.

6.2 ***Notwithstanding anything to the contrary in this Agreement, neither party hereto shall be responsible or held liable to the other for punitive, indirect, incidental, or consequential damages, or liability for loss of use, loss of business opportunity, loss of profit or revenue, loss of product or output, or business interruption.***

6.3 You and we agree that any action in relation to an alleged breach of our standard of care or this Agreement shall be commenced within one year of the date of the breach or of the date of substantial completion of Services, whichever is earlier, without regard to the date the breach is discovered. Any action not brought within that one year time period shall be barred, without regard to any other limitations period set forth by law or statute. We will not be liable unless you have notified us within 30 days of the date of such breach and unless you have given us an opportunity to investigate and to recommend ways of mitigating damages. You agree not to make a claim against us unless you have provided us at least 30 days prior to the institution of any legal proceeding against us with a written certificate executed by an appropriately licensed professional specifying and certifying each and every act or omission that you contend constitutes a violation of the standard of care governing our professional services. Should you fail to meet the conditions above, you agree to fully release us from any liability for such allegation.

6.4 ***For you to obtain the benefit of a fee which includes a reasonable allowance for risks, you agree that our aggregate liability for all claims will not exceed the fee paid for Services or $50,000, whichever is greater. If you are unwilling to accept this allocation of risk, we will increase our aggregate liability to $100,000 provided that, within 10 days of the date of this Agreement, you provide payment in an amount that will increase our fees by 10%, but not less than $500, to compensate us for the greater risk undertaken.*** This increased fee is not the purchase of insurance.

6.5 ***You agree to indemnify us from all liability to others in excess of the risk allocation stated herein and to insure this obligation. In addition, all indemnities and limitations of liability set forth in this Agreement apply however the same may arise, whether in contract, tort, statute, equity or other theory of law, including, but not limited to, the breach of any legal duty or the fault, negligence, or strict liability of either party.***

6.6 This Agreement shall be governed, construed, and enforced in accordance with the laws of the state in which our servicing office is located, without regard to its conflict of laws rules. The laws of the state of our servicing office will govern all disputes, and all claims shall be heard in the state or federal courts for that state. Each of us waives trial by jury.

6.7 No officer or employee acting within the scope of employment shall have individual liability for his or her acts or omissions, and you agree not to make a claim against individual officers or employees.

Section 7: General Indemnification

7.1 *We will indemnify and hold you harmless from and against demands, damages, and expenses of others to the comparative extent they are caused by our negligent acts or omissions or those negligent acts or omissions of persons for whom we are legally responsible. You will indemnify and hold us harmless from and against demands, damages, and expenses of others to the comparative extent they are caused by your negligent acts or omissions or those negligent acts or omissions of persons for whom you are legally responsible.*

7.2 To the extent it may be necessary to indemnify either of us under Section 7.1, you and we expressly waive, in favor of the other only, any immunity or exemption from liability that exists under any worker compensation law.

7.3 You agree to indemnify us against losses and costs arising out of claims of patent or copyright infringement as to any process or system that is specified or selected by you or by others on your behalf.

Section 8: Miscellaneous Provisions

8.1 We will provide a certificate of insurance to you upon request. Any claim as an Additional Insured shall be limited to losses caused by our negligence.

8.2 You and we, for ourselves and our insurers, waive all claims and rights of subrogation for losses arising out of causes of loss covered by our respective insurance policies.

8.3 Neither of us will assign or transfer any interest, any claim, any cause of action, or any right against the other. Neither of us will assign or otherwise transfer or encumber any proceeds or expected proceeds or compensation from the project or project claims to any third person, whether directly or as collateral or otherwise.

8.4 This Agreement may be terminated early only in writing. You will compensate us for fees earned for performance completed and expenses incurred up to the time of termination.

8.5 If any provision of this Agreement is held invalid or unenforceable, then such provision will be modified to reflect the parties' intention. All remaining provisions of this Agreement shall remain in full force and effect.

8.6 No waiver of any right or privilege of either party will occur upon such party's failure to insist on performance of any term, condition, or instruction, or failure to exercise any right or privilege or its waiver of any breach.

BRAUN INTERTEC
The Science You Build On.

Project Proposal

QTB202863

Beltrami County Jail

Client:	Work Site Address:	Service Description:
Kraus-Anderson Companies, Inc. Jack Rasmussen 501 South 8th Street Minneapolis, MN 55404 (612) 332-7281		Building Envelope Commissioning

	Description	Quantity	Units	Unit Price	Extension
Phase 1	**Building Enclosure Commisioning**				
Activity 1.1	**Design Phase**				**$2,192.00**
5528	Bid Document Review	1.00	Each	1,308.00	$1,308.00
5529	Bid Document Review Meeting	1.00	Each	884.00	$884.00
Activity 1.2	**Construction Phase**				**$22,830.00**
5532	Pre-Installation Meeting	3.00	Each	653.00	$1,959.00
5533	Pre-Test Conference	1.00	Each	653.00	$653.00
5537	Submittal Review	1.00	Each	2,300.00	$2,300.00
5534	Site Observations	6.00	Each	653.00	$3,918.00
5150	BaSS Mobilization (Twin Cities Branch)	10.00	Each	1,400.00	$14,000.00
Activity 1.3	**Pre-Occupancy Phase**				**$1,240.00**
5514	Commissioning Report	1.00	Each	1,240.00	$1,240.00
Activity 1.4	**Building Turnover / Occupancy Phase**				**$1,240.00**
5500	Commissioning Report	1.00	Each	1,240.00	$1,240.00
Activity 1.5	**Project Management and Reporting**				**$934.00**
170	Project Control Specialist	3.00	Hour	186.00	$558.00
168	Project Assistant	4.00	Hour	94.00	$376.00
				Phase 1 Total:	**$28,436.00**

Proposal Total:	**$28,436.00**

VOID - See revised fee proposal received September 9, 2024

KRAUS-ANDERSON®

Kraus-Anderson Construction Company
206 Beltrami Avenue NW, Bemidji, MN 56601

September 16, 2024

Mr. Tom Barry
County Administrator
701 Minnesota Ave. NW Suite 200
Bemidji, MN 56601

RE: Beltrami County Jail Project
Mechanical & Electrical (MEP) Commissioning
Proposals Award Recommendation

Dear Mr. Barry,

Per our previous discussions, we have requested proposals for state code required Mechanical and Electrical Commissioning services for the above referenced project, on behalf of Beltrami County. The selected firm should be considered an independent 3rd party, and hired directly by Beltrami County.

Four qualified firms were solicited, of which three responses were received as follows:

1.	**Stocke Commissioning & Building Solutions (Walker, MN)**	**$50,500.00**
2.	Dunham Associates (Mpls, MN)	$162,500.00
3.	Emanuelson-Podas, Inc. (Edina, MN)	$171,000.00

After our internal review of the proposals received, it is our **recommendation to award the required services to Stocke Commissioning & Building Solutions**, based on required content of services and best value.

Please advise what the County's next steps would be to issue a formal award and contract. Let us know if you have any questions regarding these proposals or our recommendation.

Sincerely,

Steven Trudeau

Steven Trudeau
Senior Project Manager
Kraus-Anderson Construction Company

Cc: Danielle Reid, Klein McCarthy Architects

Trudeau, Steven

From: Gow, Kyle
Sent: Tuesday, August 20, 2024 3:58 PM
Cc: Trudeau, Steven; Weerts, Pat; larry; Rasmussen, Jack
Subject: Beltrami County Corrections Center - Cx RFP
Attachments: Beltrami County Jail - MEP Commissioning RFP.pdf

All –

You have been invited to submit a proposal for MEP commissioning of the Beltrami County Corrections Center. An invite should have been sent through Building Connected, which will grant access to drawings and specifications for the project. Please reach out if there are any issues in accessing these documents.

Kraus-Anderson is extending this invitation on behalf of Beltrami County. We request that final proposals be submitted by **Friday August 30th at 5pm**. Please direct any questions to myself or Steve Trudeau.

Thank you,

Kyle Gow, PE | MEP Systems Manager
kyle.gow@krausanderson.com | cell 612-685-8052

KRAUS-ANDERSON CONSTRUCTION COMPANY
501 South Eighth Street, Minneapolis, MN 55404
Cell 612-685-8052 | krausanderson.com

Together, strengthening the communities we serve

REQUEST FOR PROPOSAL – MEP COMMISSIONING SERVICES

Beltrami County Jail
815 Pioneer Street SE
Bemidji, MN

BACKGROUND:

Beltrami County is seeking the services of a qualified System Inspector/Commissioning Authority for their new Beltrami County Jail. This project is currently under design.

RFP Schedule:	
Release RFP	August 21, 2024
RFP Response due	**August 30, 2024 – 5:00 P.M.**
Owner Review Complete	September 10, 2024
Potential Interview (if required)	TBD

Beltrami County Jail

Location:	Bemidji, MN
Approx. sqft of Building:	96,445 sq ft
Approx. Total Construction Budget:	$ 68,400,000
Mechanical Construction Costs:	$ 24,200,000
Current Status of Project:	Construction Documents Issued
Milestones:	Construction Start – April, 2025 Construction Completion – February, 2027

SCOPE OF WORK:

The Owner is committed to commissioning these facilities to ensure that all HVAC and other identified systems are complete and functioning properly upon occupancy per design intent and current and applicable Minnesota statutes. The commissioning process shall include systematically verifying and documenting that specified components and systems have been installed and started up properly, and then functionally tested to verify and document proper operation through all modes and conditions.

Commissioning services shall be completed in accordance with the 2024 Minnesota Commercial Energy Code and adopted ASHRAE 90.1 Energy Standard including all requirements of the Chapter 4, article 4.2.5 "Verification, Testing, and Commissioning". Commissioning services shall include the requirements of the following articles:

4.2.5.1	Building Systems Verification and Testing Requirements
4.2.5.2	Building Commissioning Requirements

4.2.5.3 Activities Prior to Building Occupancy

The commissioning scope shall include the requirements of article #.9 "Verification, Testing, and Commissioning" of the building systems covered under the scope of each of the following ASHRAE 90.1 Energy Standard chapters and as modified by the Minnesota Energy Code amendments:

Chapter 6: Heating, Ventilating, and Air Conditioning
Chapter 7: Service Water Heating
Chapter 8: Power
Chapter 9: Lighting
Chapter 10: Other Equipment

COMMISSIONING RESPONSIBILITIES:

Design Phase:

- Complete a project design review and provide a design review report to detail compliance of the design with the Owner's Project requirements and provisions of the ASHRAE 90.1 Energy Standard.
- Provide a written commissioning plan to identify the functional performance tests or verification procedures for all systems to be verified, commissioned, or tested. Include roles and responsibilities of all commissioning team members and milestone dates to be incorporated into the overall project schedule.

Construction Phase:

- Attend the temperature controls submittal review meeting between the project team and controls contractor prior to acceptance of controls submittal (devices, sequences and graphics).
- Confirm commissioning milestone date information to be incorporated into the overall project schedules.
- Develop and implement equipment specific delivery acceptance checklists. Spot check completed checklists on-site.
- Develop and implement equipment specific start-up test procedures to validate major equipment start-up by contractors. Verify checklists and witness start-up of equipment.
- Attend the Test and Balance kick-off meeting between TAB, temperature controls and mechanical contractors prior to the commencement of preliminary system balancing to establish quality expectations.

Building Acceptance Phase:

- Perform HVAC system functional testing through the front end DDC controls interface. Two (2) commissioning staff members shall perform testing. One staff

member at the device and one staff member at the front end interface during testing. All testing shall include:
    - 100% point to point verification of HVAC component operations
    - 100% verification of system sequences of control
    - 25% sampling of terminal units
    - 100% alarm verification
    - 100% graphic representation accuracy
- Document initial functional testing results for inclusion in the final report.
- Develop a functional testing deficiency punchlist. Perform follow-up contractor correction verification.
- Perform seasonal HVAC system functional testing thru all four seasons. Perform follow-up contractor correction verification.
- Witness and document the accuracy of the test and balance procedures and results by spot checking 10% of the Heating, Ventilating and Cooling systems with the contractor. Provide comments to the project team after spot checking.
- Review the final test and balance report for accuracy against the contract documents and provide written comments back to project team.
- Coordinate and schedule training for mechanical and electrical equipment and systems.

Prior To Issuance of Certificate of Occupancy:

- Develop and submit a preliminary Commissioning Report and all related documentation to the Owner.

Building Turnover/Occupancy Phase:

- Review the Operations and Maintenance manuals for accuracy and completeness. Provide comments to the Owner and project team.
- Review all as-built drawings for the projects for accuracy and completeness. Provide comments to the Owner and project team.
- Develop and submit a final Commissioning Report including a summary of the commissioning scope, a copy of all generated documentation and associated correspondence, and a copy of all field-testing results.

Equipment to be Commissioned in their entirety except as noted:

- Service Water Pressure Booster System
- Service Water Heating System
- Recirculation Pump
- In floor heat and snowmelt systems
- Heating System
- Cooling System
- Ventilation System
- Temperature Controls

- Test and Balance (spot check 10% with contractor)
- Emergency Generator System
- Automatic Receptacles
- Life Safety Systems including Fire Alarm and Fire Protection
- Lighting control systems
- Emergency Lighting System.

DESIRED QUALIFICATIONS:

The following is a list of desired qualifications for the Commissioning Authority for this project:

1. Have acted as the System Inspector/Commissioning Authority/ or part of the team for at least five projects over 70,000 sqft. in size.

2. Have extensive experience in the operation and troubleshooting of HVAC systems, energy management control systems and lighting control systems. Extensive field experience and a minimum of three full years in this type of work are required.

3. Knowledgeable in test and balance of both air and water systems.

4. Experienced in energy efficient equipment design and control strategy optimization.

    a. Fill out and return the attached Commissioning Firm Experience Form with your proposal.

5. Direct experience in monitoring and analyzing system operation using energy management control system trending and stand-alone data logging equipment.

INSTRUCTIONS TO APPLICANTS:

Each applicant must propose to execute all phases of the commissioning in a single proposal.

The proposal shall be limited to 20 single sided pages, including graphics, a letter of introduction, section dividers, detailed resumes, and the Commissioning Firm Experience Form attached to this request for proposals. (Example reports in item #4 below only included in the electronic copy do not count to the 20 pages.)
The proposal must be signed by an officer of your firm with the authority to commit the firm.

All proposals shall include the following information:

1. List the key individuals who will make up your Commissioning team for this contract and describe each individual's qualifications and experience. Identify the percentage of time commitment for each of the team members including your proposed team's organizational structure (i.e. individual roles and responsibilities of each member).

2. Please list any litigation, contract default, mediation/arbitration that you have been involved in over the past 7 years on project. Provide a brief description if required.

3. Provide project and professional references and experience for three commissioning projects in the last three years. Include a description of the project, including project size, type of mechanical systems, and systems commissioned. Identify when your firm came into the project and describe the involvement of each individual on the project. Include contact information associated with the Owner, architect, mechanical engineer, and applicable contractors for each of the projects listed.

4. Provide any examples of the following documents that you feel are pertinent to this project: (Only include these examples in the Electronic Copies, and not the hard copies of your RFP Response)
    a. Equipment Delivery Acceptance Checklist
    b. Equipment Start-up Checklist
    c. Functional Testing Documentation
    d. Site Observation Report

5. Provide a separate alternate cost for the digital audio/video recordings of the training for the mechanical and electrical equipment.

Provide a detailed proposed basis for compensation. This section should include a breakdown of all costs that will be associated with the commissioning portion of the project including but not limited to basic fee, travel costs, reimbursables, misc. charges, etc.

****All applicants are encouraged to provide voluntary alternates for any additional services and/or scope of work, not specifically addressed in the Request for Proposals that may be considered to be a benefit to the Owner. The Owner will review these voluntary alternates utilizing the submission and selection criteria as described below for the scope of work specifically described in this Request for Proposals**.

SUBMISSION AND SELECTION

Electronic copies of the proposal should be in PDF form and emailed to the Owner and Kraus Anderson Construction:

Attn:
Mr. Tom Barry
Beltrami County
County Administrator
Tom.barry@co.beltrami.mn.us

Mr. Steven Trudeau
Kraus Anderson Construction
Sr Project Manager
steven.trudeau@krausanderson.com

Mr. Kyle Gow
Kraus Anderson Construction
MEP Systems Manager
Kyle.gow@krausanderson.com

Questions concerning the RFP may be directed to Steven Trudeau at Kraus Anderson Construction Company, the Construction Manager at steven.trudeau@krausanderson.com and (218) 766-5998.

RFP Proposals / Responses are due by August 30, 2024 @ 5:00 P.M.

Review and selection process:

The selection process will be based on the information contained in the applicant's response to the RFP including; Project Team qualifications, Company and Team Experience, Costs of Services, and ability to respond to the services requested in the RFP.

After receipt and review of all proposals submitted according to the requirements as defined above, the Owner may contact all or some of the applicants for clarification, additional information, or to arrange personal meeting with an applicant's proposed project team. It is the Owner's intent to have secured the services of a Commissioning Authority by the end of August 2024.

Rights Reserved by the Owner:

The Owner reserves the right to waive any irregularities in any proposal, and to select the proposal evaluated to be the most advantageous to the Owner. Further, the Owner reserves the right to disqualify any proposal, or to reject all proposals if it is deemed to

be in its best interest. The Owner reserves the right to negotiate with the selected firm(s) to finalize and refine the fees and project scope.

The Owner shall not be liable for any expenses incurred by the applicant including but not limited to expenses associated with the preparation of the proposals.

The Owner reserves the right to reject any and all proposals, or to request additional information from any or all applicants at any time during the selection process.

Response To RFP for Beltrami County Jail

est. 1866

BELTRAMI county

Beltrami County, Bemidji MN

STOCKE COMMISSIONING & BUILDING SOLUTIONS LLC

August 29, 2024

Beltrami County Jail
Tom Barry, County Administrator
701 Minnesota Ave. NW
Bemidji MN 56601

RE: THIRD-PARTY COMMISSIONING SERVICES

Stocke Commissioning and Building Solutions (SCBS) is a Female owned company and really appreciates the opportunity to provide commissioning services for the construction of a new Beltrami County Jail.

SCBS's knowledge of the climate, community, culture, and region is vital to properly commission any facility. SCBS truly shares your goal of ensuring that this facility is designed to perform according to your needs and expectations. We make sure systems are installed per design intent, your operational requirements are met, and that the new Beltrami County Jail systems operate at maximum efficiency.

We appreciate your time and look forward to the opportunity to work with you on this project.

Best Regards,

James C. Stocke

Jim Stocke, CCP
Certified Commissioning Professional / Lead-Point of Contact
218.536.9044 / James Stocke

James Stocke is the lead for this project and is a Certified Commissioning Professional through the Building Commissioning Association (BCA). James has more than 40 years of experience in facilities and building systems with 18 of those years in commissioning. James has commissioned facilities ranging in size from approximately 4,000 square feet to over 1 million square feet. James has performed all facets of commissioning including testing both air and water balancing, total point to point control systems. Doreen Stocke is the CEO of SCBS and will assist James on this project as needed during the commissioning process including field verification of systems.

DELIVERABLES:

OVERVIEW:

As your operational commissioning consultant, SCBS's will provide professional services directly to the district (Owner) by collaborating with the architect/engineer (A/E) design team, consultants, and construction contractor(s) as necessary to ensure that the project is in general conformance with the Owner's project requirements (OPRs). Specifically, we will follow the approach shown here to advise on the energy and operational efficiencies of the mechanical systems including temperature controls, ensuring that these systems are commissioned upon installation and that an ongoing performance evaluation plan is in place to assure that the operational efficiency of the systems installed persists for many years after the project has been completed.

SCBS shall commission in accordance with the 2024 Minnesota Commercial Energy Code and adopted ASHRAE 90.1 Energy Standard including all of the requirements of Chapter 4 article 4.2.5, 4.2.5.1, 4.2.5.2 and 4.2.5.3. SCBS's will commission all Heating, Ventilation and Air Conditioning (HVAC) and Building Automation System (BAS) components contained in the Beltrami County Jail construction project as outlined below.

Beltrami County Jail

- *The systems to be tested:*
  - *Heating Systems (100%)*
  - *Cooling Systems (100%)*
  - *Ventilation Systems (100%)*
  - *Temperature Controls (BAS) (100%)*
  - *Terminal Units (25%)*
  - *Automatic Receptacles*
  - *Service Water Pressure Booster Systems*
  - *Service Water Heating Systems*
  - *Recirculation Pumps and Pumping Systems*
  - *In Floor heating and snowmelt Systems*
  - *Alarm Verification (100%)*
  - *Test and Balance Systems both air and water sides (100%)*
  - *Life Safety Systems including Fire Alarm and Fire Protection*
  - *Lighting Control Systems.*
  - *Emergency Lighting Systems*

DELIVERABLE by PHASE:

1. DESIGN PHASE

During this phase, we will collaborate with the design team by reviewing construction documentation for performance, compliance, and value relative to the OPRs. This includes but is not limited to:

- *Review of the OPRs and basis of design (BOD) document(s) to ensure Beltrami Counties needs are met as described in the OPRs and carried through in the BOD document. Ensure the design is following the provisions of ASHRAE 90.1 energy standard*
- *Evaluation/analysis/commentary associated with energy and operational performance with an emphasis placed on HVAC, and BAS.*
- *Evaluating/providing recommendations on HVAC control systems and sequences of operation to ensure that systems are operating as intended at project completion.*
- *Identifying and working with utilities to source any rebate or grant opportunities for the project.*
- *Evaluation and recommendation of opportunities for potential modifications to equipment sequence of operations to maximize system efficiency, prolong equipment life, and assure comfort and indoor air quality.*
- *Develop the commissioning plan to ensure proper direction is provided for the commissioning processes during construction.*
- *Provide a design report to ensure a thorough review was done with the MEP and Envelope sides of the design.*

2. CONSTRUCTION PHASE

During the construction phase, we will collaborate with the construction team for performance, compliance, and value relative to the OPRs. This includes but is not limited to:

- *Reviewing submittal documents to ensure that they conform with the OPRs and that they are following future testing criteria during the commissioning phase.*
- *Provide a Commissioning Kick off meeting with all Contractors including TAB and Controls contractors to explain the commissioning process, procedures and expectations.*
- *Conduct regular commissioning meetings to ensure the project stays on schedule. Hold meetings with the commissioning team that consists of the Owner, Project Manager, Pertinent Contractor personnel and others as needed.*
- *Provide milestones dates and incorporate the commissioning schedule into the construction schedule.*
- *Provide equipment start up test procedures to validate major equipment start up by contractors. Verify checklists for the equipment*
- *Make sure contractors provide prefunctional testing (Acceptance Testing) to ensure everything is operating correctly before the Commissioning Provider performs the Functional Performance Tests*
- *Conduct meetings with the controls contractor to ensure the control systems are installed correctly and go over a point-to-point verification of all control systems.*
- *Observe all piping systems flush and fill as well as hydro testing of piping systems. Also verify water chemical feed systems and obtain water tests from water chemical testing contractor.*
- *Witness and observe any duct testing requirements or specifications that are needed. Collect copies of the tests.*
- *Provide an ongoing issues list of issues, listing urgency, date of findings, recommendations and sign off when completed.*

- *Providing technical recommendations and advising on any value engineering and/or applicable change orders submitted that may have an impact on the energy or operational performance.*
- *Write functional Performance Tests to align with all of the new equipment and systems.*
- *Ensuring that the commissioning testing requirements (Functional Performance Testing) are consistently communicated to applicable contractors. Functional Performance testing is done by the commissioning provider (SCBS) on all systems.*
- *Providing expert advice and mentoring to the district throughout the project, including advising on options and alternatives that are not necessarily brought up by contractors.*
- *Conducting periodic site visits during construction to ensure that systems are being installed in general conformance with the OPRs and the subsequent commissioning phase.*
- *Coordinate test and balance meetings with the TAB team and Controls contractor to review the test and balance (TAB) report and compare information to the design performance criteria. Test all devices such as VAV boxes and other terminal equipment to ensure systems are balanced correctly and to design flows.*
- *Witnessing and reviewing equipment start-up activities associated with the HVAC equipment to ensure the equipment is operating in accordance with the manufacturer's operating criteria and collecting start up data.*

3. ACCEPTANCE PHASE

During the Acceptance phase, we will ensure HVAC equipment and BAS are operating as designed and in general conformance with the OPRs. Key tasks include:

- *Observing and verifying system performance as a whole through functional testing. All operating scenarios will be tested and accepted to ensure each system's performance characteristics and corresponding test results achieve the design intent.*
- *Provide any Functional Performance testing that wasn't done during construction and verify point to point of the BAS and HVAC Systems. Re-verify sequence of operations are still accurate and operating to design. Check for graphics accuracy to ensure everything is captured on the BAS. Make sure alarm parameters are accurate.*
- *Maintaining an issues log and verifying proactive corrective measures are taken to resolve the issue. SCBS commissioning (Cx) team will communicate with other team members, provide supporting documentation, or research, and track the issues until they are resolved.*
- *Perform any seasonal testing that is needed to ensure everything is tested.*
- *Review the final testing and balancing report for accuracy checking 10% of the heating, cooling and ventilation systems with the contractor. Provide any comments back to the Commissioning team.*
- *Confirming appropriate operations and maintenance manuals are collected and delivered to building operations staff.*
- *Ensuring proper equipment training is performed for the building operation staff. SCBS Cx team will review the training plan provided by the installing contractors to ensure the training is designed to provide adequate operation information. SCBS Cx team will witness and oversee the initial training sessions to ensure quality training is provided.*

4. OPERATIONS & OCCUPATION PHASE

During the operations phase, we will implement the performance evaluation plan established during the initial planning phase. SCBS will monitor, verify, and continue to optimize system performance to ensure persistent energy and operational performance for one year after construction occupancy. We will:

- *Monitor and verify that necessary building equipment trends, alarms, override reports, schedules, setpoints, meter information (where available) are performing as intended and partner with building operations staff to address items that drift from design intent.*
- *Identify new optimization opportunities and collaborate with appropriate building operations staff and/or contractors for implementation.*
- *Ensure that building operators have periodic training on the systems to operate as anticipated and outlined in the OPR and to play a role in optimizing systems as identified in the performance evaluation plan.*
- *Conduct any remaining seasonal functional performance testing.*
- *Perform a 10-month end-of-warranty review.*
- *Provide a final report illustrating how the key performance indicators as identified in the performance evaluation plan are being met based on the OPRs through the implementation of system commissioning and engineering.*

FEES & TERMS:

PAYMENTS

For the professional services contained within this proposal, SCBS proposes a lump sum amount identified below for commissioning at the new Beltrami County Jail. This amount includes all reimbursable expenses associated with these professional services.

- *Beltrami County Jail Cx costs:* ***$48,500***
- *Videotaping of pertinent Trainings:* ***$2000.00***

Customer shall pay SCBS for the value of Work that SCBS has completed, as the Work is completed. The Customer shall pay SCBS within thirty (30) days of receiving an invoice.

PERFORMANCE OF WORK

SCBS shall perform the scope of work ("Work") specified herein. SCBS shall furnish all services necessary to perform the Work and perform the Work to completion diligently, expeditiously and

with adequate forces. Customer shall use its best efforts to provide all information, materials, documents, and assistance that is reasonably required for SCBS to perform any and all aspects of the work.

Signatures

We are excited about the opportunity and look forward to working with you on this project. Please signify acceptance of this proposed scope of work by signing below.

Accepted by:

Beltrami County	*STOCKE COMMISSIONING & BUILDING SOLUTIONS, LLC*
Name:	Name:
Signature	Signature
Title	Title

Insurance/Indemnity items listed below:

Insurance/Indemnity Requirements

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 09/25/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Liberty Mutual Insurance PO BOX 188065 Fairfield OH 45018	PHONE (A/C, No, Ext): 800-962-7132	FAX (A/C, No): 800-845-3666
	E-MAIL ADDRESS: BusinessService@LibertyMutual.com	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Ohio Security Insurance Company	24082
INSURER B : Ohio Security Insurance Company	24082
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Stocke Commissioning And Building Solutions Llc
6588 Shingobee Rd Nw
Walker MN 56484-200

COVERAGES **CERTIFICATE NUMBER:**0159921303 **REVISION NUMBER:**2016-03

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	☑ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☑ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:	X	X	BLS64186455	12/30/2023	12/30/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG [blank]	$ 1,000,000 $ 300,000 $ 15,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) [blank]	$ $ $ $ $
	☐ UMBRELLA LIAB ☐ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $						EACH OCCURRENCE AGGREGATE [blank]	$ $ $
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		XWS64186455	12/30/2023	12/30/2024	☑ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

Indemnity Clause: Stocke Commissioning and Building Solutions Agrees to compensate Beltrami County for any damages caused by Stocke Commissioning and Building Solutions during the commissioning process that Stocke Commissioning and Building Solutions is responsible for.

Stocke Commissioning & Building Solutions

Project Experience

COMMISSIONING FIRM EXPERIENCE FORM

1. Project Name: Roseau Phase 1&2
2. Project Location: Roseau Mn
3. Project Type: School addition and Remodel
4. Architect Firm: JLG
5. Mechanical Engineer Firm: Obernel
6. General Contractor: Kraus Anderson
7. Mechanical Contractor: Shannon's Mechanical
8. Temperature Controls Vendor: Peterson Sheetmetal (Carrier)
9. Testing & Balance Company: Pro Control
10. Total Construction Cost: $30m
11. Mechanical Construction Cost: NA
12. Mechanical Systems Description: Sixteen new rooftop air handlers, new hot water boilers, exhaust systems. New control system.
13. Systems Commissioned: All of the mechanical systems were commissioned.
14. Scope of Commissioning Services: Commissioning services were provided for the design phase, construction phase, acceptance phase, and occupancy phase. All systems were commissioned 100% including every VAV box. Security and fire systems.
15. Project Phase When Your Firm Started: Design phase.
16. List Roles and Responsibilities of Employees Involved: Jim Stocke CCP lead Commissioning Provider overseen the entire project, provide commissioning schedule. He led all commissioning meetings, wrote issues lists, performed Functional Performance Testing. He was the lead for commissioning team working with the owner, project manager and contractors. He overseen every phase of the project and provide the final report.
17. Describe How This Project Is Comparable: This project is equivalent in size and scope and has similar equipment and budget. Both have new additions, so they have similar issues tying the new addition into the existing facilities.

18. Describe up to 3 commissioning issues encountered and resolution thereof: 1) There was a rooftop unit installed backwards or flopped 180 degrees according to design. The supply air side was tied to the return air ducting and the return air was ducted to the supply air. Worked with the project manager and contractor to correct the ducting and turned the fan around. 2) There was numerous ducting left open during construction, filling the duct work with dust, dirt, and debris. Discussed it in a commissioning meeting with the commissioning team and the mechanical contractor sealed the duct opening up and had to perform complete duct cleaning before occupancy. 3) Duct work on the roof was not supported properly and was allowing water to infiltrate the duct work. Discussed this with the project manager, the mechanical contractor and design engineer to correct the issue.
19. Owner Name & Contact Info: Roseau Public Schools
20. Architect Name & Contact Info: JLG
21. Mechanical Engineer Name & Contact Info: Joel Peck 701-551-5738
22. General Contractor Name & Contact Info: Kraus Anderson Brad Swanson 612-834-0735
23. Mechanical Contractor Name & Contact Info: Shannon's Mechanical 218-283-6021

COMMISSIONING FIRM EXPERIENCE FORM

1. Project Name: Gene Dillion Elementary
2. Project Location: Bemidji Mn
3. Project Type: New Elementary School
4. Architect Firm: DLR
5. Mechanical Engineer Firm:
6. General Contractor: Kraus Anderson
7. Mechanical Contractor: Peterson Sheetmetal
8. Temperature Controls Vendor: Peterson Sheetmetal (Carrier)
9. Testing & Balance Company: Balancing Professionals
10. Total Construction Cost: $24m
11. Mechanical Construction Cost:
12. Mechanical Systems Description: This facility was a chilled beam design with a few standard air handlers, hot water boiler systems, air cooled chilled water system.

13. Systems Commissioned: All systems were commissioned, chilled beam, air handlers, boiler systems, chiller systems, exhaust systems hydronic systems, plumbing systems, security systems, control systems and lighting controls.
14. Scope of Commissioning Services: Commissioning services were provided for the design phase, construction phase, acceptance phase, and occupancy phase. All systems were commissioned 100% including every VAV box. Security and fire systems. Commissioning were held.
15. Project Phase When Your Firm Started: Design Phase
16. List Roles and Responsibilities of Employees Involved: Jim Stocke CCP lead Commissioning Provider overseen the entire project, provide commissioning schedule. He led all commissioning meetings, wrote issues lists, performed Functional Performance Testing. He was the lead for commissioning team working with the owner, project manager and contractors. He overseen every phase of the project and provide the final report.

17. Describe How This Project Is Comparable: This project is equivalent in size and scope and has similar budget. Comparable square footage.
18. Describe up to 3 commissioning issues encountered and resolution thereof: 1) There were coils installed in the improper location, the heating coil was where the cooling coil was supposed to be and vice a versa. Worked with the project manager and contractor to correct the issue. 2) The chiller was not mounted on isolation pads as per specification and vibrated badly. Worked with the contractor, project manager and the design engineer to correct the issue. 3) Controls were incomplete, graphics, sequence of operations were not followed and all points that were paid for were not installed or functioning. Worked with the control's contractor, the project manager and the owner and maintenance staff for the corrections
19. Owner Name & Contact Info: Bemidji School District Paul Rafferty 218-556-6811
20. Architect Name & Contact Info: DLR Architects
21. Mechanical Engineer Name & Contact Info: Retired
22. General Contractor Name & Contact Info: Kraus Anderson Gary Francisco 218-766-2026
23. Mechanical Contractor Name & Contact Info: Peterson Sheetmetal Jamie Quello 218-751-4502

COMMISSIONING FIRM EXPERIENCE FORM

1. Project Name: Academic Learning Center
2. Project Location: Bemidji State University
3. Project Type: New building
4. Architect Firm:
5. Mechanical Engineer Firm: Obernel
6. General Contractor:
7. Mechanical Contractor: Peterson Sheetmetal
8. Temperature Controls Vendor: Johnson Control
9. Testing & Balance Company: Balance Professionals
10. Total Construction Cost: $67m
11. Mechanical Construction Cost:
12. Mechanical Systems Description: Air handlers' systems, variable air volume, exhaust air systems, tying new facility into a central steam plant and central chilled water system. Converting steam systems into a hot water system utilizing heat exchangers and pumping systems

13. Systems Commissioned: All HVAC, hydronic, plumbing, electrical, fire alarm and lighting systems were commissioned.
14. Scope of Commissioning Services: Commissioning services were provided for the design phase, construction phase, acceptance phase, and occupancy phase. All systems were commissioned 100% including every VAV box not a percentage. A Final Report was provided at the end of the project. An Owners Project Requirements (OPR), Commissioning Plan were provided during the design phase which helped the Architects and Mechanical design team put a Basis of Design (BOD) document together to ensure the owners requirements and needs were met.
15. Project Phase When Your Firm Started: Predesign

16. List Roles and Responsibilities of Employees Involved: Jim Stocke CCP lead Commissioning Provider overseen the entire project, provide commissioning schedule. He led all commissioning meetings, wrote issues lists, performed Functional Performance Testing. He was the lead for commissioning team working with the owner, project manager and contractors. He overseen every phase of the project and provide the final report.
17. Describe up to 3 commissioning issues encountered and resolution thereof: 1) An air handler that its own self-contained controls would not operate according to design. Met with the mechanical contractor and they brought in rep from the company that sold them the air handler' They had to reprogram the controller and that corrected the issue. 2) When a site observation was done, a cooling coil was found to have the fins on the coil were smeared in a large area, restricting the air flow. The issue was sent to the contractor and the contractor had the coil combed, which provided the correct flow. 3) When checking the balancing report, it was found that the flow that was recorded on the balancing report did not match our test results for a cooling coil on an air handler. The balancing contractor was brought back to correct the flow and then had them test additional air handlers with the Commissioning Provider to ensure it was done properly.
18. Owner Name & Contact Info: Bemidji State University - Travis Barnes 218-368-2101
19. Architect Name & Contact Info:
20. Mechanical Engineer Name & Contact Info: Obernel – Joel Peck 701-551-5738
21. General Contractor Name & Contact Info: Terra Construction
22. Mechanical Contractor Name & Contact Info: Peterson Sheetmetal Jamie Quello 218-751-4502

COMMISSIONING FIRM EXPERIENCE

1. Project Name: Oyate, Indian Reservation, Jail/Detention Facility (LEED Gold)
2. Project Location: Sisseton South Dakota
3. Project Type: New Construction
4. Architect Firm: Method Architect, Houston Texas
5. Mechanical Engineer Firm: KCI Technologies, San Antonio Texas
6. General Contractor: Donlar Construction
7. Mechanical Contractor:
8. Temperature Controls Vendor:
9. Testing & Balance Company: Pro Control
10. Total Construction Cost: $75m
11. Mechanical Construction Cost: NA
12. Mechanical Systems Description: Geothermal Systems, Geo Heat Pumps, Air handlers VAV systems

24. Systems Commissioned: All of the mechanical, Geothermal Systems and Envelope systems are being commissioned.
25. Scope of Commissioning Services: Commissioning services were provided for the design phase, construction phase, acceptance phase, and occupancy phase. All systems are to be commissioned 100% including every mechanical system.
26. Envelope Systems, water proofing, footings and foundations
27. Project Phase When Your Firm Started: Design phase

28. List Roles and Responsibilities of Employees Involved: Jim Stocke CCP lead Commissioning Provider is overseeing the entire project, provide commissioning schedule. He is leading all commissioning meetings, writing issues lists, performing Functional Performance Testing. He is the lead for commissioning team working with the owner, project manager and contractors. He oversees every phase of the project and will provide the final report.
29. Owner Name & Contact Info: Oyate Indian Reservation, Sisseton SD
30. Architect Name & Contact Info: Method Architecture
31. Mechanical Engineer Name & Contact Info: Christopher Clements
32. General Contractor Name & Contact Info: EAPC, Tony Luchsinger
33. Mechanical Contractor Name & Contact Info:

COMMISSIONING FIRM EXPERIENCE FORM

1. Project Name: Trinity Hospital- New Campus
2. Project Location: Minot North Dakota
3. Project Type: New Hospital and Campus
4. Architect Firm: TEG
5. Mechanical Engineer Firm: TRC Worldwide
6. General Contractor: JEDunn
7. Mechanical Contractor: USE Inc
8. Temperature Controls Vendor: Johnson Control
9. Testing & Balance Company: Balance professional
10. Total Construction Cost: $330m
11. Mechanical Construction Cost:
12. Mechanical Systems Description: Heat recovery air handlers, hot water boilers (condensing and non-condensing) steam boilers, 3 chillers with cooling towers, heat exchangers, condensate receivers and condensate pumping systems. Variable Air Volume (VAV) systems with VFD's with duct static pressure control. Chilled water systems for MRI equipment. Exhaust systems with heat recovery systems.
13. Systems Commissioned: Trinity Health required every, mechanical, electrical, and plumbing systems were tested 100%. This included generator and transfer switches, lighting controls and radiant floor heating systems.
14. Scope of Commissioning Services: Commissioning services were provided for the design phase, construction phase, acceptance phase, and occupancy phase. All systems were commissioned 100% including every VAV box not a percentage. A Final Report was provided at the end of the project. An Owners Project Requirements (OPR), Commissioning Plan were provided during the design phase which helped the Architects and Mechanical design team put a Basis of Design (BOD) document together to ensure the owners requirements and needs were met.

15. Project Phase When Your Firm Started: Design Phase
16. List Roles and Responsibilities of Employees Involved: Jim Stocke CCP lead Commissioning Provider overseen the entire project, provide commissioning schedule. He led all commissioning meetings, wrote issues lists, performed Functional Performance Testing. He was the lead for commissioning team working with the owner, project manager and contractors. He overseen every phase of the project and provide the

final report. Dylan Shaw, commission technician, assisted with the commissioning process when he was needed.

17. Describe How This Project Is Comparable: This project is not comparable in size or budget, but this project was presented for additional references if needed. Also please read the issues to verify how thorough commissioning was.
18. Describe up to 3 commissioning issues encountered and resolution thereof: 1) In the design phase it was discovered that all VAV boxes for patient rooms, were mounted above the patient beds in the room. The issue was sent to the mechanical engineer, the owner, and all members of the commissioning team. The Owners Project Requirement (OPR) stated the owner did not want any VAV boxes in the patient room. The owner required the design team to redesign the ventilation system with the VAV boxes located in the hall outside of the room. 2) When the air handlers were installed and were set to operate as temporary heat during the construction phase, it was discovered during functional testing, that the heat coils could not provide the correct heat as designed. The issue was brought to the commissioning team, and it was decided for the design engineer to check his calculation. It was discovered his calculation were correct, but the supplier had installed the wrong size coils. 3) It was found during commissioning, the non-condensing boilers during winter operation had an issue with ice building up on an induction fan blade, that provides air for combustion. The commissioning team asked the manufacturers rep to look into the situation. The boilers air intake was not the proper design for the colder condition and additional equipment was needed to make the correction. This fixed the issue.
19. Owner Name & Contact Info: Trinity Health - Dave Kohlman 701-857-5145
20. Architect Name & Contact Info: TEG Nathan Love
21. Mechanical Engineer Name & Contact Info: TRCW - Bob Boellner 317-691-4241
22. General Contractor Name & Contact Info: JE Dunn - Dan Schmitz 701-301-0439
23. Mechanical Contractor Name & Contact Info: USE Tiffany 410-652-3833

COMMISSIONING MEETING AGENDA

--CONSTRUCTION PHASE--

Project: Trinity New Campus

Location: Teams Meeting

Meeting Date and Time: February 14th, 2023, 9:00 am

Invited: *All Commissioning team members.*

- **Introductions**
- **Commissioning Objectives**

  Commissioning is a systematic process of verifying that all building systems and assemblies perform separately and interactively according to the Contract Documents and Owner's objectives and requirements.

- **Equipment Commissioned under this scope—**

  HVAC & Mechanical Systems and Integral Equipment Controls including:
  - Chilled water system
  - Heating water system
  - Fan coil units
  - Air handlers
  - Ductwork
  - Air terminal boxes
  - Exhaust fans
  - Building automation system
  - Air and water balancing work
  - HVAC differential pressure relationships
  - Domestic water heating system

  Electrical Systems:
  - Scheduled lighting control system
  - Exterior lighting controls
  - Daylight dimming controls
  - Lighting occupancy sensors
  - Variable speed drives
  - Emergency generator

- **Roles & Responsibilities**

  (for all parties' A/E, CxP, GC, CM, subs).

  Commissioning Provider
  - Review selected submittals
  - Provide construction checklists
  - Perform field observation
  - Write functional test scripts
  - Oversee and document functional testing

  Contractor
  - Provide needed documentation
  - Install equipment
  - Complete checklists, startup & operational checks
  - Execute functional tests

- Confirm training and O&Ms
- Conduct trainings & provide O&Ms

Commissioning Coordinator

- Coordinate commissioning activities
- Integrate commissioning schedule into construction schedule
- Distribute and collect required documentation from contractors
- Inform CxP of construction progress

- **Cx Process Overview**
- **Items from Last Meeting**
  - Construction Checklists – Getting more in and is everybody up to date?

- **New items**
  - Generator Testing still on going.
  - Who and what is the process are we using to resolve the chillers tripping out and board issues? Are we testing on Thursday and Friday of this week? What have we done to change things to ensure it will work. Who is going to be there?
  - Are the utility breakers fixed that had issues with during testing?
  - Are all coil repairs completed.
  - Chilled water bypass installation complete?
  - Boilers status, do we have the intake status? When will that be completed?
  - *Where is the heating hot water DP at?*
  - *Update on balancing- where are we at and what are expectations.*
  - *Any update on the Pharmacy exhaust fan?*
  - Commissioning is starting to go through the VAV boxes in the ACT starting the week of February 27th, *need balancing reports.*
  - *Corrections to MRI cooling piping, when will this be complete?*
  - *When can we test chiller 5?*
  - Bypass drains for cooling tower cleaned out and functioning.
  - What has been done to fix the issues with the condensate flashing? Is it a band aide or a permanent fix?
  - What is considered Substantial completion? Will we make it by March 2???

- **New Items**
  - Any other items?

Test Witness Record

This is a record of witnessing tests executed and documented by the Contractor, Owner or their assignees (fire alarm, generator, electrical equip, etc.). The witness confirms the test was executed, documented and appeared to be done correctly. Completed test forms will still need to be reviewed after submission by the Contractor or Owner.

Project: New Trinity Hospital

Test: Duct Pressure Sensor and Duct Smoke Detector

Code or Referenced Spec Section NA

Equipment Covered (list ID): AHU-16 and AHU-13

Date of Witnessing: _7-7-21 **Witnessed By**: James Stocke

AHJ

Contractor JCI

1. Amount of witnessing that occurred on this test (% of test, which parts of the test, etc.) 100%

2. Parties Performing Tests (name and affiliation): JCI controls and JED

3. Conditions of Test Good

4. Were proper test methods being used Yes

5. Were the proper test forms being used to document the testing and are they documenting problems? None were needed

6. Does the testing appear to be accurate? Yes

7. Does the testing appear to be thorough? Yes very

8. What acceptance criteria are they using? Is it adequate? The criteria was pass or fail and that is adequate

"This Functional Performance Test document represents EAPC's standard test protocol, basic functional test, and EAPC's best understanding of the designed sequence of operation. This

9. Are there any issues that need to be addressed or checked up on later? Yes the smoke damper between the air handler and the DOA's were manually opened and when the fan is operating after temp conditioning they have to be put back in the correct position

10. Did the test pass? Yes Passed

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- **Chilled Water/ Cooling Tower/ HX**

Functional Performance Test Rough Draft

New Trinity Hospital

System: **Chillers/Chilled Water** Service: **Chilled Water Loop**

Functional Performance Test	*Pass*	*Fail*	*Remarks*
FPT Test Prerequisites	-----	-----	----------
Occupied schedule is 24/7			
Chiller Data			
Model #			
Serial #			
Unit Location			
Areas Served			
Power-Fail-Restart	-----	-----	----------
Command system temp control valve open			
Command system bypass valve closed			
Shut off power to VFD's			
Shut off power to CW control panel			
Verify loss of comm at OWS			
Verify system temp control valve fails closed			
1. Verify system bypass valves fails open			
Restore power (VFD first then control panel)			
Verify single CW pump restarts			
Original DP set point is maintained			
Release control valve overrides			
Pump Lead/Lag and alarms	-----	-----	----------
Record lead pump			CWP-1/CWP-2/CHP-3
Record lag pump			CWP-1/CWP-2/CHP-3
Record stand-by pump			CWP-1/CWP-2/CHP-3
Record CWP-1 run time hours			___ Hrs
Record CWP-2 run time hours			___ Hrs
Record CWP-3 run time hours			___ Hrs
Record lead/lag switch over set point			750 Hrs
Verify status of lead CW pump			
Shut off lead CW pump at disconnect			
Verify rotation as pump slows down			
Verify lead pump loses status			
Record time until alarm is generated			
Record time until lag pump starts			

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Verify status of lag CW pump			
Lag CW pump ramps up and maintains DP			
Turn on lead CW pump at disconnect			
Rotate lead/lag			
Verify status of lead CW pump			
Shut off lead CW pump at disconnect			
Verify rotation as pump slows down			
Verify lead pump loses status			

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Site Visit Observation Report

Project: _____ Location: _____

Visit Date: _____ Observations by: _____

Weather Conditions: _____

Stage of Construction: _____

CxA Pre/Post Site Walk Checklist	Y	N
Was this a scheduled visit?	☐	☐
Personal Protection Equipment (Hard Hat, Vest, Safety Glasses, Boots)?	☐	☐
Documentation Equipment (Camera, Flashlight, Clip-Board, Drawings)?	☐	☐
Did you check-in with GC at their trailer prior to start of walk?	☐	☐
Did you check-out with GC at their trailer after completing walk?	☐	☐

Observation/System/Equipment	Location	Issue Noted

Signed: _____

Print Name & Title: _____

See attached photo sheet for reference? Yes ☐ Page_____ of _____

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BELTRAMI county

Meeting Date: October 1, 2024
Beltrami County Commission
Work Agenda

AGENDA BILL

SUBJECT: Health and Human Services(HHS) Success Stories

RECOMMENDATIONS: Informational

DEPARTMENT OF ORIGIN: Health and Human Services

CONTACT PERSON: Anne Lindseth, Director, 218-333-4195

DATE SUBMITTED: 9/24/2024

CLEARANCES: Tom Barry, County Administrator

BUDGET IMPACT: None

EXHIBITS: None

SUMMARY STATEMENT: Health and Human Services would like to provide stories highlighting successes and supports provided to our county residents through County HHS service provision.

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BELTRAMI county

Meeting Date: October 1, 2024
Beltrami County Commission
Work Agenda

AGENDA BILL

SUBJECT: 2024 General Election Update

RECOMMENDATIONS: Receive update on the 2024 General Election. No action needed.

DEPARTMENT OF ORIGIN: Auditor-Treasurer

CONTACT PERSON: JoDee Treat, Auditor-Treasurer 218-333-4175

DATE SUBMITTED: September 24, 2024

CLEARANCES: NA

BUDGET IMPACT: NA

EXHIBITS: NA

SUMMARY STATEMENT:

We will give an update as to the 2024 General Election process.