



**Working Together for a
Better Tomorrow. Today.**

SPECIFICATION PACKAGE

for

COAL CONVEYOR #4 TRANSFER POINT UPGRADE – PLATTE GENERATING STATION

Bid Opening Date/Time

**Tuesday, August 21, 2012 @ 2:00 p.m. (local time)
City of Grand Island, City Hall
100 East 1st Street, P.O. Box 1968
Grand Island, NE 68802-1968**

Contact

**City of Grand Island – Utilities Department
Platte Generating Station
308/385-5496**

Date issued: August 3, 2012

**ADVERTISEMENT TO BIDDERS
FOR
PLATTE GENERATING STATION COAL CONVEYOR #4 TRANSFER POINT UPGRADE
FOR
CITY OF GRAND ISLAND, NEBRASKA**

Sealed bids will be received at the office of the City Clerk, 100 E. First Street, P.O. Box 1968, Grand Island, Nebraska 68802, until Tuesday, August 21, 2012 at 2:00 p.m. local time for Platte Generating Station Coal Conveyor #4 Transfer Point Upgrade, FOB the City of Grand Island, freight prepaid. Bids will be publicly opened at this time in the Grand Island City Hall Council Conference Room #1 located on 1st floor of City Hall. Submit an original and three copies. Bid proposal package is also available on-line at www.grand-island.com under Business – Bid Calendars. Bids received after the specified time will be returned unopened to sender.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Successful bidder shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

Each bidder shall submit with the bid a certified check, a cashiers check, or bid bond payable to the City Treasurer in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within fourteen (14) days at the bid price if accepted by the City. **Your certified check, cashier's check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened or considered.** Surety companies authorized to do business in the State of Nebraska must issue bid bonds.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The Purchaser reserves the right to reject any or all bids, to waive irregularities therein, and to accept whichever bid that may be in the best interest of the City, at its sole discretion.

No bidder may withdraw his bid for a period of thirty (30) days after date of bid opening.

RaNae Edwards, City Clerk

**Advertised
Grand Island Independent**

(All bids must be submitted on this form)

PLATTE GENERATING STATION COAL CONVEYOR #4 TRANSFER POINT UPGRADE
BID DATA FORM

CITY OF GRAND ISLAND
GRAND ISLAND, NE

The undersigned bidder, having examined all specifications and other bidding documents, and all addenda thereto, and being acquainted with and fully understanding all conditions relative to the specified materials and equipment, hereby proposes to provide such equipment FOB the City of Grand Island, freight prepaid, at the following price:

<u>ITEM DESCRIPTION</u>	<u>EXTENDED COST</u>
Base Bid:	
Conveyor #4: Material	\$ _____
Labor	\$ _____
Applicable Sales tax*	\$ _____
Total Base Bid	\$ _____

Alternate Bid – Conveyor #3: \$ _____

*** If bidder fails to include sales tax in their bid price or takes exception to including sales tax in their bid price, the City will add a 7.0% figure to the bid price for evaluation purposes; however, the City will only pay actual sales tax due.**

- By checking this box, Bidder acknowledges that Addenda Number(s) _____ were received and considered in Bid preparation.
- By checking this box, Bidder acknowledges the specified completion date of the project is **November 2, 2012**.

According to Nebraska Sales and Use Tax Requirements, Section 1-017, Contractors, check which option you have selected to file with the Nebraska Department of Revenue:

Nebraska law provides a sales and use tax exemption on contractor labor charges for the construction, repair, or annexation of any structure used for the generation, transmission, or distribution of electricity. Separately stated contractor labor would be exempt, all materials are taxable according to the contractor's option.

Option 1 (Section 1-017.05)_____ Option 2 (Section 1-017.06)_____ Option 3 (Section 1-017.07)_____

If the Nebraska sales and use tax election is not filed or noted above, the contractor will be treated as a retailer under Option 1 for sales and use tax purposes.

Bidder Company Name Date

Company Address City State Zip

Print Name of Person Completing Bid Signature

Telephone No. _____ Fax No. _____

By checking this box, Bidder acknowledges there are Exceptions noted to the bid.
NOTE: Any exceptions to specifications must be fully explained on a separate sheet attached to bid.

CHECKLIST FOR BID SUBMISSION**FOR****PLATTE GENERATING STATION COAL CONVEYOR #4 TRANSFER POINT UPGRADE**

Bids must be received by the City Clerk before 2:00 p.m. on Tuesday, August 21, 2012.

The following items must be completed for your bid to be considered.

- A signed original and three copies of the bidding documents.
- A reference list of at least three projects of similar scope and complexity to this specification, including a description, name and phone contact.
- A summary of the experience of the superintendent and field supervisor proposed for this project.
- Firm lump sum pricing; firm unit pricing in case adjustments are necessary, and breakout of sales tax pricing.
- A description of the system proposed, including equipment and operating procedures.
- A proposed construction schedule and proposed completion date.
- Selection of Nebraska Sales Tax Option.
- Acknowledgment of Addenda Number(s) _____.
- Bidders must complete and sign the Bid Data Form provided in these Documents. All blank spaces must be filled in. Bidders shall acknowledge receipt of any Addenda information on the Bid Data Form.
- A certified check, cashiers check or bid bond in a separate envelope attached to the **outside of the envelope containing the bid**. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened.

Please check off each item as completed.

Company

Signature

Telephone No. _____

Fax No. _____

INSTRUCTIONS TO BIDDERS

1. GENERAL INFORMATION.

The following instructions outline the procedure for preparing and submitting Bids. Bidders must fulfill all requirements as specified in these Documents.

2. TYPE OF BID.

Bidders shall be required to submit prices for all items listed in the Bid Data Form.

3. PREPARATION OF BIDS.

Bidders shall use only the Bid Data Form provided in these Documents. All blank spaces in the Bid Data Form, must be filled in, preferably in BLACK ink, in both words and figures where required. No changes to the wording or content of the forms is permitted. Written amounts shall govern in case of discrepancy between the amounts stated in writing and the amounts stated in figures.

Prices stated shall be f.o.b. with freight and full insurance paid by Bidder, to the job site located in Grand Island.

The Bidder shall acknowledge receipt of all addenda in the Bid Data Form. Bids received without acknowledgement or without the Addendum enclosed will be considered informal.

4. SUBMISSION OF BIDS.

All Bids must be submitted intact not later than the time prescribed, at the place, and in the manner set forth in the ADVERTISEMENT FOR BIDS. Bids must be made on the Bid Data Form provided here in. Each Bid must be submitted intact in a sealed envelope, so marked as to indicate its contents without being opened, and delivered in person or addressed and mailed in conformance with the instructions in the ADVERTISEMENT FOR BIDS.

5. BID SECURITY.

Bids must be accompanied by cash, a certified check, or cashier's check drawn on a bank which is insured by the Federal Deposit Insurance Corporation, or a bid bond issued by a Surety authorized to issue such bonds in the state where the Work is located, in the amount of 5 percent of the bid amount payable to OWNER. This bid security shall be given as a guarantee that the Bidder will not withdraw his Bid for a period of 30 days after bid opening, and that if awarded the Contract, the successful Bidder will execute the attached Contract and furnish a properly executed Performance Bond and Payment Bond each in the full amount of the Contract price within the time specified.

The Attorney-in-Fact that executes this bond in behalf of the Surety must attach a notarized copy of his power of attorney as evidence of his authority to bind the Surety on the date of execution of the bond. Where State Statute requires, certification by a resident agent shall also be provided.

6. RETURN OF BID SECURITY.

Within 15 days after the award of the Contract, the OWNER will return the bid securities to all Bidders whose Bids are not to be further considered in awarding the contract. All other retained bid securities will be held until the Contract has been finally executed, after which all bid securities, other than Bidders' bonds and guarantees which have been fortified, will be returned to the respective Bidders whose Bids they accompanied.

7. BASIS OF AWARD.

The award will be made by the OWNER on the basis of the Bid from the lowest responsive, responsible Bidder which, in the OWNER's sole and absolute judgment will best serve the interest of the OWNER. All Bids will be considered on the following basis:

Conformance with the terms of the Bid Documents.

Bid price.
Cost of installation.

Suitability to project requirements.
Delivery time.

Responsibility and qualification of Bidder.

The OWNER reserves the right to reject all Bids, or any Bid not in conformance with the intent of the Bid Documents, and to waive any informalities and irregularities in said Bids.

8. EXECUTION OF CONTRACT.

The successful Bidder shall, within 15 days after receiving notice of award, sign and deliver to the OWNER the Contract hereto attached together with the acceptable bonds as required in these Bid Documents. Within 15 days after receiving the signed Contract with acceptable bond(s) from the successful Bidder, the OWNER's authorized agent will sign the Contract. Signature by both parties constitutes execution of the Contract.

9. PERFORMANCE AND PAYMENT BONDS.

The successful Bidder shall file with the OWNER Performance and Payment Bonds in the full amount (100 percent) of the Contract price, as security for the faithful performance of the Contract and the payment of all persons supplying labor and materials for the Work under this Contract, and to cover all guarantees against defective workmanship or materials, or both, for a period of 1 year after the date of final acceptance of the Work by the OWNER. The Surety furnishing these bonds shall have a record of service satisfactory to the OWNER, be authorized to do business in the State where the OWNER's project is located and shall be named on the current list of approved Surety Companies, acceptable on Federal bonds as published by the Audit Staff, Bureau of Accounts, U.S. Treasury Department.

The Attorney-in-Fact (Resident Agent) who executes these bonds on behalf of the Surety must attach a notarized copy of his power-of-attorney as evidence of his authority to bind the Surety on the date of execution of the bond.

10. TIME OF COMPLETION.

The time of completion of the Work to be performed under this Contract is the essence of the Contract. The time allowed for the completion of the Work is stated in the Bid Data Form.

11. GRATUITIES AND KICKBACKS.

City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefor. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

12. FISCAL YEAR.

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into by and between **[SUCCESSFUL BIDDER]**, hereinafter called the Contractor, and the **CITY OF GRAND ISLAND, NEBRASKA**, hereinafter called the City.

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for bids to be published for *PLATTE GENERATING STATION COAL CONVEYOR #4 TRANSFER POINT UPGRADE*; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the bids submitted, and has determined the aforesaid Contractor to be the lowest responsive and responsible bidder, and has duly awarded to the said Contractor a contract therefore, for the sum or sums named in the Contractor's bid, a copy thereof being attached to and made a part of this contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself, himself, or themselves, and its, his, or their successors, as follows:

ARTICLE I. That the following documents shall comprise the Contract, and shall together be referred to as the "Agreement" or the "Contract Documents";

1. This Contract Agreement.
2. City of Grand Island's Specification for this project.
3. **[NAME OF SUCCESSFUL BIDDER]** bid signed and dated **[DATE OF BID]**.

In the event of any conflict between the terms of the Contract Documents, the provisions of the document first listed shall prevail.

ARTICLE II. That the contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other construction materials, services and facilities; (b) furnish, as agent for the City, all materials, supplies and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as listed in the attached General Specifications, said documents forming the contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's bid;

ARTICLE III. That the City shall pay to the Contractor for the performance of the work embraced in this contract and the Contractor will accept as full compensation therefore the sum (subject to adjustment as provided by the contract) of **[DOLLAR AMOUNT] (\$00.00)** for all services, materials, and work covered by and included in the contract award and designated in the foregoing Article II; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

The total cost of the Contract includes:

Base Bid:	\$.00
Sales Tax on Materials/Equipment:	\$.00
Sales Tax on Labor:	<u>\$.00</u>
Total	\$.00

The City of Grand Island, Nebraska operates on a fiscal year beginning October 1st and ending on the following September 30th. It is understood and agreed that any portion of this agreement which will be performed in a future fiscal year is contingent upon the City Council adopting budget statements and appropriations sufficient to fund such performance.

ARTICLE IV. The Contractor hereby agrees to act as agent for the City in purchasing materials and supplies for the City for this project. The City shall be obligated to the vendor of the materials and supplies for the purchase price, but the Contractor shall handle all payments hereunder on behalf of the City. The vendor shall make demand or claim for payment of the purchase price from the City by submitting an invoice to the Contractor. Title to all materials and supplies purchased hereunder shall vest in the City directly from the vendor. Regardless of the method of payment, title shall vest immediately in the City. The Contractor shall not acquire title to any materials and supplies incorporated into the project. All invoices shall bear the Contractor's name as agent for the City. This paragraph will apply only to these materials and supplies actually incorporated into and becoming a part of the finished product of the PLATTE GENERATING STATION COAL CONVEYOR #4 TRANSFER POINT UPGRADE.

ARTICLE V. That the Contractor shall start work as soon as possible after the contract is signed and the required bonds and insurance are approved, and that the Contractor shall deliver the equipment, tools, supplies, and materials F.O.B. Platte Generating Station, and complete the work on or before **November 2, 2012.**

ARTICLE VI. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. During the performance of this contract, the Contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis, of race, color, religion, sex, national origin, age or disability. The Contractor agrees to comply with all applicable Local, State and Federal rules and regulations. The Contractor agrees to maintain a drug-free workplace policy and will provide a copy of the policy to the City upon request. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

GRATUITIES AND KICKBACKS

City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim

or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefor. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated therewith, as an inducement for the award of a subcontract or order.

[SUCCESSFUL BIDDER]

By _____ Date _____

Title _____

CITY OF GRAND ISLAND, NEBRASKA

By _____ Date _____
Mayor

Attest: _____
City Clerk

The contract is in due form according to law and hereby approved.

Attorney for the City Date _____

DRAFT



*Working Together for a
Better Tomorrow, Today.*

REQUEST FOR BIDS - GENERAL SPECIFICATIONS

The Bid shall be in accordance with the following and with all attached BID DATA and DETAILED SPECIFICATIONS.

All prices are to be furnished and installed FOB, Grand Island, Nebraska. **All prices shall be firm, and shall include all sales and use taxes as lawfully assessed under laws and regulations of the State of Nebraska.** * If bidder fails to include sales tax in their bid price or takes exception to including sales tax in their bid price, the City will add a 7.0% figure to the bid price for evaluation purposes; however, the City will only pay actual sales tax due.

Bids shall include the following on the **outside** of the mailing envelope: **“Platte Generating Station Coal Conveyor #4 Transfer Point Upgrade”**. All sealed bids are due no later than **Tuesday, August 21, 2012 at 2:00 p.m. local time**. Submit **an original and three copies** of the bid to:

Mailing Address: City Clerk
City Hall
P. O. Box 1968
Grand Island, NE 68802

Street Address: City Clerk
City Hall
100 E. First Street
Grand Island, NE 68801

Bids will be opened at this time in the City Hall Council Conference Room #1 located on 1st floor of City Hall. Any bid received after the specified date will not be considered. No verbal bid will be considered.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Contractor shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

The equipment and materials must be new, the latest make or model, unless otherwise specified. Prior to approving the invoice for payment, the City reserves the right to thoroughly inspect and test the equipment to confirm compliance with specifications. Any equipment or material which does not meet the City's requirements will be returned at vendor's expense for correction. The invoice will be paid after approval at the next regularly scheduled Council meeting and occurring after departmental approval of invoice; the City Council typically meets the second and fourth Tuesday of each month. Invoices must be received well in advance of Council date to allow evaluation and processing time.

Each bidder shall submit with the bid a certified check, a cashiers check, or bid bond payable to the City Treasurer in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within fourteen (14) days at the bid price if accepted by the City. **Your certified check, cashier's check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid.** Each envelope must be clearly marked indicating its contents. **Failure to submit the necessary qualifying information in clearly marked and separate envelopes will result in your bid not being opened or considered.** Surety companies authorized to do business in the State of Nebraska must issue bid bonds.

Successful bidder shall comply with the City's insurance requirements; performance and payment bonds are required for this project as outlined in the Detailed Specifications and Instructions to Bidders.

All bids shall be valid for at least thirty (30) working days after the bid deadline for evaluation purposes.

All bids must be on the bid form and must be signed and dated to be accepted. Please contact Ryan Schmitz at 308-385-5495, for questions concerning this specification.

Coal Conveyor #4 Transfer Point Upgrade Detailed Specification

SCOPE: The Contractor shall furnish all engineering, equipment, labor, mobilization/demobilization, scaffolding, licensing, permits and material necessary to upgrade existing transfer point on Conveyor #4. An alternate price shall be included for the listed upgrades at Conveyor #3.

Work shall include but is not limited to:

Conveyor #4:

- Rebuild transfer point containment area according to CEMA recommendations.
- Eliminate belt sag and suppress dust in the containment area by installing belt support cradles, impact cradles, idlers, wear liners, skirting, dust curtains, etc.

Alternate #1: Conveyor #3:

- Rebuild transfer point containment area according to CEMA recommendations.
- Replace the fabric seals on the vibratory feeder.
- Eliminate belt sag and suppress dust in the containment area by installing belt support cradles, impact cradles, idlers, wear liners, skirting, dust curtains, etc.

LOCATION: The Platte Generating Station is located at 1035 W. Wildwood Drive, two miles south of Grand Island, Nebraska.

The Conveyor #4 transfer point is in the transfer house on the South side of the site. It sits below the crusher and conveys material from the transfer house to the tripper floor.

The Conveyor #3 transfer point is below the reclaim hopper (just east of the transfer house). It conveys material from the coal yard to the crusher/conveyor #4.

CODES AND STANDARDS: CEMA (Conveyor Equipment Manufacturers Association) recommendations will be adhered to on this project.

SUBMITTALS: **Contractor shall submit the following documentation for review with the bid:**

- References for at least 3 projects of a similar scope, including a description, name, and phone contact.
 - A proposed construction schedule.
 - A description of the system proposed, including equipment and operating procedures.
 - A summary of the experience of the superintendent for this project.
1. Prior to equipment start-up the Contractor shall provide 5 copies each of all Operation & Maintenance manuals.
 2. The Operation & Maintenance manuals shall include the following:
 - A system description.
 - Component data sheets for all field devices.
 - Bill of materials with customer equipment number column.
 - Mechanical outline drawings.

DETAILED SPECIFICATIONS:

Conveyor #4:

- Remove existing skirting system, skirt boards, and covers.
- Remove existing feed chute (1) at flange just below feeder (or as necessary for construction).
- Remove all belt supports and decking through transfer point containment area.

- Install one (1) MARTIN® GUARDABELT™ Impact Cradle (or approved equal) beneath the load zone.
- Install three (3) MARTIN® GUARDASEAL™ Belt Support Cradles (or approved equal) after the impact cradle.
- Install six (6) spaced MARTIN® TRAC-MOUNT™ Idlers (or approved equal) for new belt support system. Idlers shall have a 'slide in/slide out' capability as to be serviced without raising the belt or removing adjacent idlers.
- Install new Chute Walls through the length of transfer point.
- Install new Tail Pulley Box with entry seal at the tail end of the chute walls.
- Install new Feeder Chute from existing feeder discharge flange down to the new chute wall system. Wear areas should be protected by ½" thick AR 500 wear liner.
- Install new MARTIN® DURT TAMER™ Wear Liner (or approved equal) along the chute wall system.
- Install new MARTIN® APRON SEAL™ Skirting System (or approved equal) along both sides of new chute wall system.
- Install Dual Dust Curtains at the end of the new chute wall system.
- Install access covers on new chute wall system as needed.
- Install new Belt Tracking System on both the return and carry side of belt (after it exits the transfer point).
- Contractor design and price must include refitting the existing dust collector, screw conveyor, and foamer nozzles to the new containment system. Design and price should include all re-direction of existing piping (if needed).
- Item shall be bid individually with a lump sum price (material and labor listed separately).

Approximate Belt Speed: 610 ft/min

Approximate Loading Rate: 560 tons/hr

Alternate #1: Conveyor #3:

- Remove existing skirting system, skirt boards, and covers.
- Remove existing feed chute (1) at flange just after vibratory feeder (or as necessary for construction).
- Remove all belt supports and decking through transfer point containment area.
- Install one (1) MARTIN® GUARDABELT™ Impact Cradle (or approved equal beneath the load zone).
- Install three (3) MARTIN® GUARDASEAL™ Belt Support Cradles (or approved equal) after the impact cradles.
- Install six (6) MARTIN® TRAC-MOUNT™ Idlers (or approved equal) for new belt support system. Idlers shall have a 'slide in/slide out' capability as to be serviced without raising the belt or removing adjacent idlers.
- Install new Chute Walls through the length of transfer point.
- Install new Tail Pulley Box with entry seal at the tail end of the chute walls.
- Install new Feeder Chute from existing vibratory feeder discharge flange into the new chute wall system. Wear areas should be protected by ½" thick AR 500 wear liner.
- Install new MARTIN® DURT TAMER™ Wear Liner (or approved equal along the chute wall system).
- Install new MARTIN® APRON SEAL™ Skirting System (or approved equal) along both sides of new chute wall system.
- Install Dual Dust Curtains at the end of the new chute wall system.
- Install access covers on new chute wall system as needed.
- Install new Belt Tracking System on both the return and carry side of belt (after it exits the transfer point).
- Replace existing access doors at the discharge of the vibratory feeder.
- Install new rubber seal (or approved equal) on the vibratory feeder (1) using existing hardware and mounting method.
- Design and price should include all re-direction of existing piping (if needed).
- Item shall be bid individually with a lump sum price (material and labor listed separately).

In the future, a Donaldson® air cleaner (or approved equal) may be installed to further alleviate dust at one or both transfer points. This shall be taken into account, when selecting/installing a proposed layout, to alleviate future labor costs of the retrofit.

Approximate Belt Speed: 610 ft/min
Approximate Loading Rate: 560 tons/hr

TRAINING: Training for plant personnel shall be conducted by certified technicians on the system maintenance features of the units.

FIELD SUPERVISOR: The Contractor shall provide an on-site service supervisor to direct all work who shall be thoroughly familiar and experienced with projects of similar scope. A summary of the experience of the service supervisor proposed for this project shall be provided with the bid.

MATERIALS, EQUIPMENT, AND SERVICES PROVIDED BY THE OWNER: The Owner shall provide temporary power (480/240/120) for the Contractor. Contractor must contact Owner in advance to allow for temporary power to be run to the area. Contractor may be required to provide extension cords. The Owner will provide any needed water.

MATERIALS, EQUIPMENT, AND SERVICES PROVIDED BY THE CONTRACTOR: The Contractor shall provide all required hand tools, hoists, scaffolding, consumables, and all other equipment and materials necessary to completely perform the work. Contractor will be responsible for site cleanup and the disposal of all work debris.

SAFETY: The Contractor shall follow all applicable OSHA regulations and plant safety regulations. There shall be No Smoking within 50 ft. of any building or coal storage areas. A short (10 minute) plant safety meeting shall be required prior to commencement of work.

Contractor must work with plant operations to obtain a hot work permit prior to commencing with welding operations.

OWNER: An Engineer representative of the Platte Generating Station.

SCHEDULE: All work should be completed between **October 1, 2012 and November 2, 2012**. Contractor will be allowed to move equipment onsite 3 days in advance of initial Construction Date. The Contractor shall include a construction schedule with the bid and a proposed completion date.

Access to the plant will be available at all times and the Contractor may determine working hours; however, the plant staff will only be available during normal, daytime, weekday working hours.

There is no separate contractor entrance at the Platte Generating Station. There is one gate with a card access security system and the Contractor may request to use access cards rather than request entry and exit for each trip. There is a \$25.00 charge for each access card that is not returned when the job is completed.

QUALIFICATIONS: The Contractor shall be a firm specializing in conveyor systems in industrial locations. Reference contacts of at least three recent projects of similar scope shall be furnished with the bid.

SERVICE RATES: The Contractor shall include in the Bid a firm lump sum price, including expenses, and all other standard terms and conditions which will be in effect during the project. The Bid shall also include firm unit pricing for adjustments that may be required for work outside of the specified scope of services and a lump sum bid for Alternate #1: Conveyor 3.

The Platte Generating Station is **NOT** tax exempt and is subject to 7.0% sales tax. See the Nebraska Department of Revenue web site at www.revenue.state.ne.us for contractors tax information.

CONTACT: Questions regarding this specification may be directed to Ryan Schmitz at the Platte Generating Station, telephone (308) 385-5495.

ATTACHMENTS:

77-8R-CH-1 COAL HANDLING PLOT PLAN
77-8R-CH-7 COAL TRANSFER HOUSE SECTIONS
70-301 CONVEYOR ELEVATIONS, CONVEYORS 3 AND 4
70-302 30" RECLAIM CONVEYOR NO. 3, ENCLOSED GALLERY STRUCTURE
70-303 30" RECLAIM CONVEYOR NO. 3, ENCLOSED GALLERY – SECTIONS AND DETAILS
70-305 30" RECLAIM CONVEYOR NO. 3, GENERAL ARRANGEMENT
70-307 30" RECLAIM CONVEYOR NO. 3, TAIL END AND LOADER DETAILS
70-311 30" RECLAIM CONVEYOR NO. 3, VIBRATING FEEDER DETAILS
70-1220 CONVEYORS 1 & 3 MOTOR DATA SHEET
70-410 30" PLANT CONVEYOR NO. 4, ENCLOSED GALLERY STRUCTURE
70-411 30" PLANT CONVEYOR NO. 4, ENCLOSED GALLERY & DETAILS
70-415 30" PLANT CONVEYOR NO. 4, GENERAL ARRANGEMENT
70-417 30" PLANT CONVEYOR NO. 4,, TAIL END AND LOADER DETAILS
70-1226 CONVEYOR #4 MOTOR DATA SHEET

Note: All attachments are for information only. Contractor must verify all data shown in the field.

INSURANCE: The Contractor shall comply with the attached Insurance Requirements.

MINIMUM INSURANCE REQUIREMENTS
CITY OF GRAND ISLAND, NEBRASKA

The successful bidder shall obtain insurance from companies authorized to do business in Nebraska of such types and in such amounts as may be necessary to protect the bidder and the interests of the City against hazards or risks of loss as hereinafter specified. This insurance shall cover all aspects of the Bidder's operations and completed operations. Failure to maintain adequate coverage shall not relieve bidder of any contractual responsibility or obligation. Minimum insurance coverage shall be the amounts stated herein or the amounts required by applicable law, whichever are greater.

1. WORKERS COMPENSATION AND EMPLOYER'S LIABILITY

This insurance shall protect the Bidder against all claims under applicable State workers compensation laws. This insurance shall provide coverage in every state in which work for this project might be conducted. The liability limits shall not be less than the following:

Workers Compensation	Statutory Limits
Employers Liability	\$100,000 each accident
	\$100,000 each employee
	\$500,000 policy limit

2. BUSINESS AUTOMOBILE LIABILITY

This insurance shall be written in comprehensive form and shall protect the Bidder, Bidder's employees, or subcontractors from claims due to the ownership, maintenance, or use of a motor vehicle. The liability limits shall be not less than the following:

Bodily Injury & Property Damage	\$ 500,000 Combined Single Limit
---------------------------------	----------------------------------

3. COMPREHENSIVE GENERAL LIABILITY

The comprehensive general liability coverage shall contain no exclusion relative to explosion, collapse, or underground property. The liability limits shall be not less than the following:

Bodily Injury & Property Damage	\$ 500,000 each occurrence
	\$1,000,000 aggregate

4. UMBRELLA LIABILITY INSURANCE

This insurance shall protect the Bidder against claims in excess of the limits provided under employer's liability, comprehensive automobile liability, and commercial general liability policies. The umbrella policy shall follow the form of the primary insurance, including the application of the primary limits. The liability limits shall not be less than the following:

Bodily Injury & Property Damage	\$1,000,000 each occurrence
	\$1,000,000 general aggregate

5. ADDITIONAL REQUIREMENTS

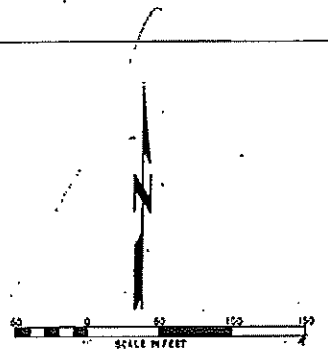
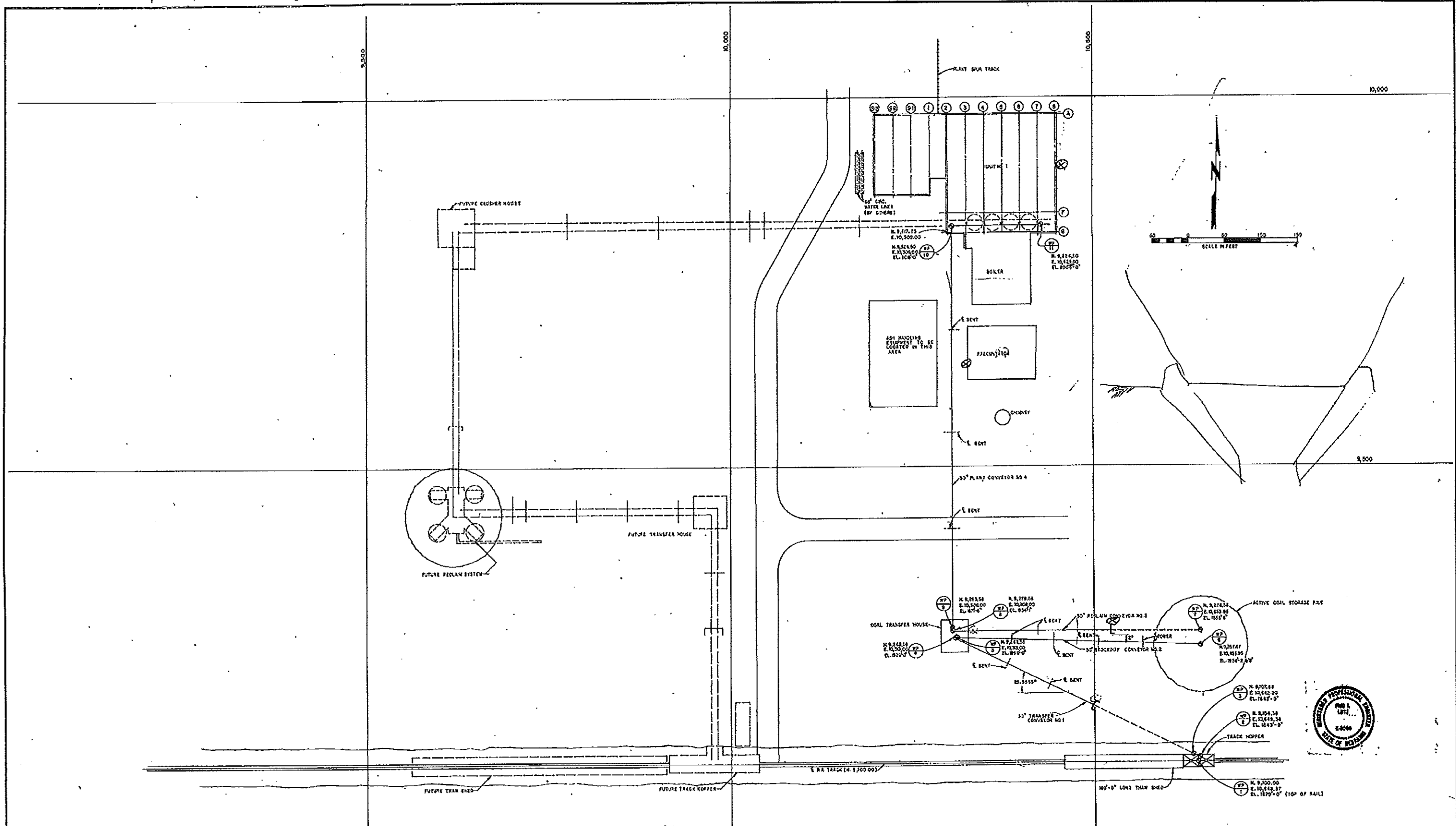
The City may require insurance covering a Bidder or subcontractor more or less than the standard requirements set forth herein depending upon the character and extent of the work to be performed by such Bidder or subcontractor.

Insurance as herein required shall be maintained in force until the City releases the Bidder of all obligations under the Contract.

The Bidder shall provide and carry any additional insurance as may be required by special provisions of these specifications.

6. CERTIFICATE OF INSURANCE

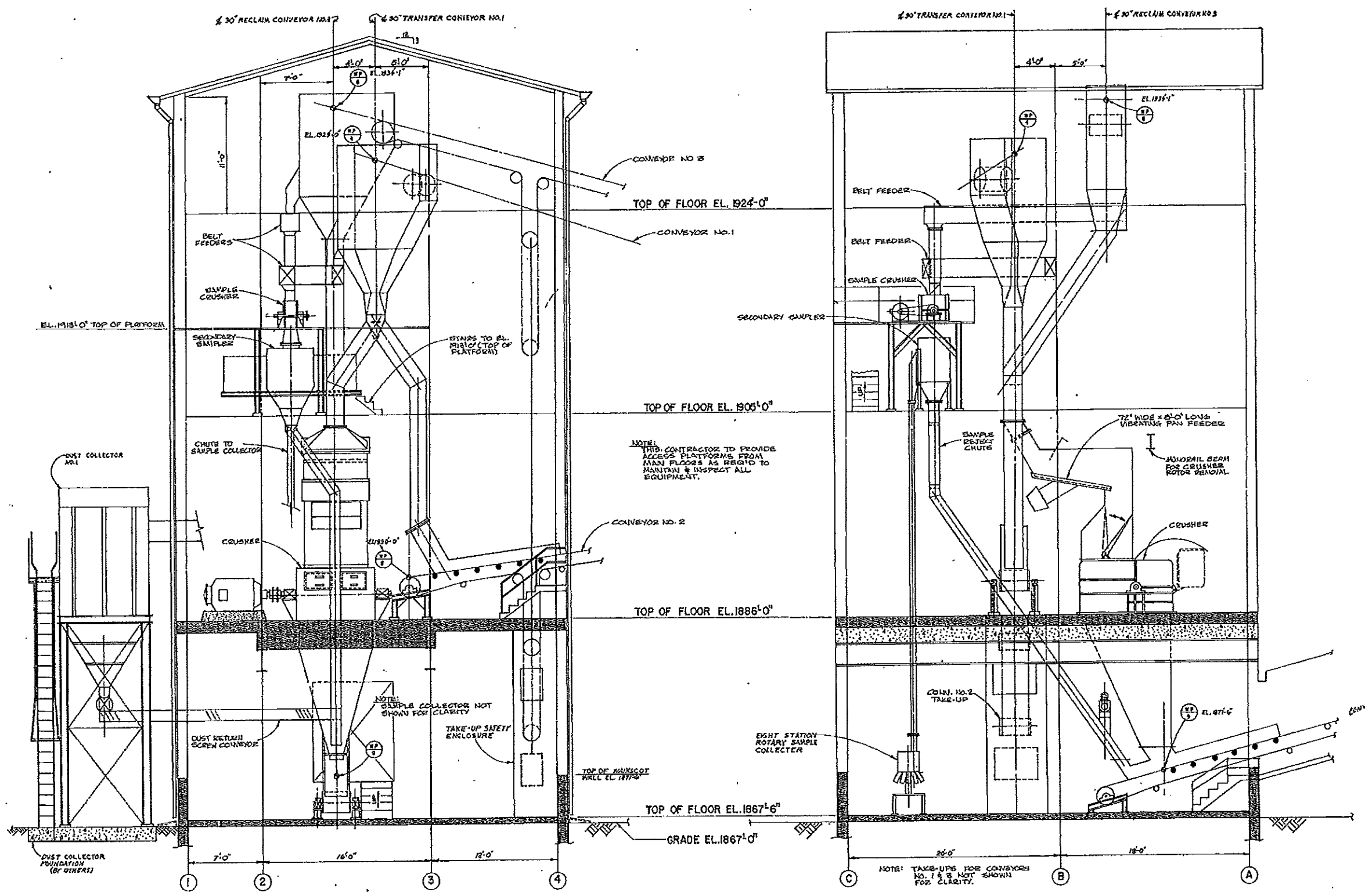
Satisfactory certificates of insurance shall be filed with the City prior to starting any work on this Contract. **The certificates shall show the City as an additional insured on all coverage except Workers Compensation. The certificate shall state that thirty (30) days written notice shall be given to the City before any policy is cancelled (strike the "endeavor to" wording often shown on certificate forms). If the bidder cannot have the "endeavor to" language stricken, the bidder may elect to provide a new certificate of insurance every 30 days during the contract. Bidder shall immediately notify the City if there is any reduction of coverage because of revised limits or claims paid which affect the aggregate of any policy.**



1/22/20

① symbols
 ② air support
 ③ draw water + pipe

UTILITY SYSTEM IMPROVEMENTS	
GRAND ISLAND, NEBRASKA	
COAL HANDLING PLOT PLAN	
LUTZ, DAILY & BRAIN CONSULTING ENGINEERS P.O. BOX 718 SHAWNEE MISSION, KANSAS 66201	
DRAWN BY: <i>AM</i> CHECKED BY: <i>AM</i> APPROVED BY: <i>PL</i>	SHEET: 2 of 15 DRAWING NUMBER: 77-8R-CH-1



NOTE: THE CONTRACTOR TO PROVIDE ACCESS PLATFORMS FROM MAIN FLOORS AS BEING TO MAINTAIN & INSPECT ALL EQUIPMENT.

SECTION A-A
SCALE 1/4" = 1'-0"
LOOKING NORTH

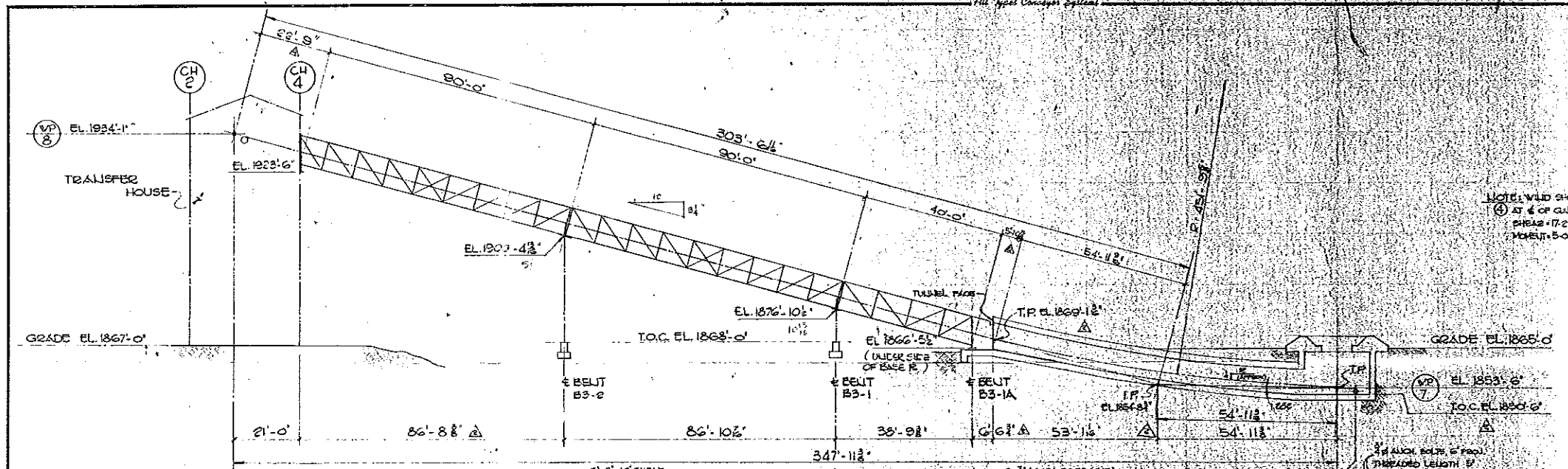
SECTION B-B
SCALE 1/4" = 1'-0"
LOOKING WEST

NOTE: FOR PLAN VIEW SEE DWG. 77-BR-CH-5 & DWG. 77-BR-CH-6 FOR GENERAL NOTES SEE DWG. 77-BR-CH-3



UTILITY SYSTEM IMPROVEMENTS	
GRAND ISLAND, NEBRASKA	
COAL TRANSFER HOUSE SECTIONS	
LUTZ, DAILY & BRAIN CONSULTING ENGINEERS P.O. BOX 718 SHAWNEE NEBRASKA 68201	
DESIGN BY: ALB	CHECKED BY: JTB
DATE: 10-25	DATE: 10-25
PROJECT NO.: 77-BR-CH-7	SHEET NO.: 8 of 15

REV.	DESCRIPTION



CONVEYOR No. 3

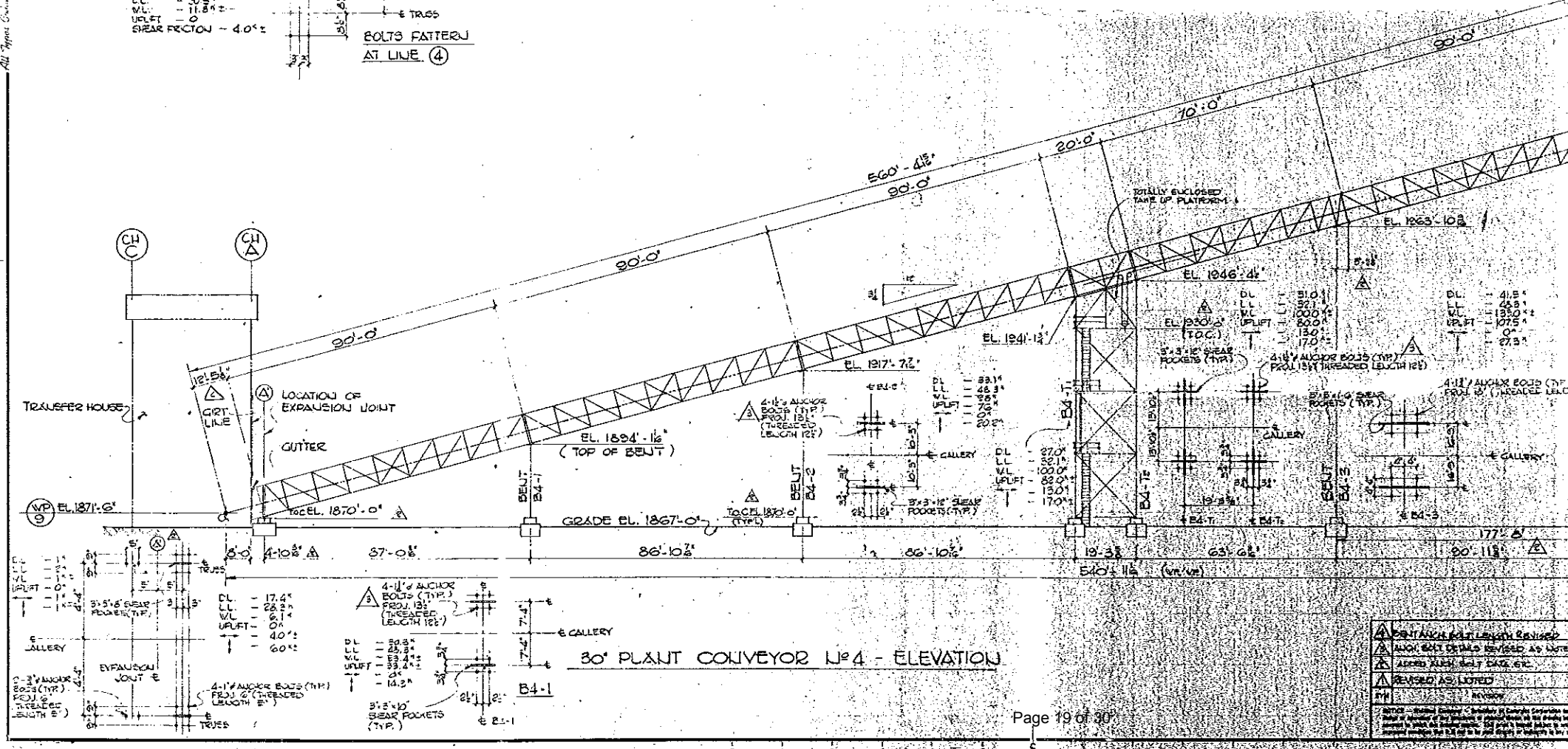
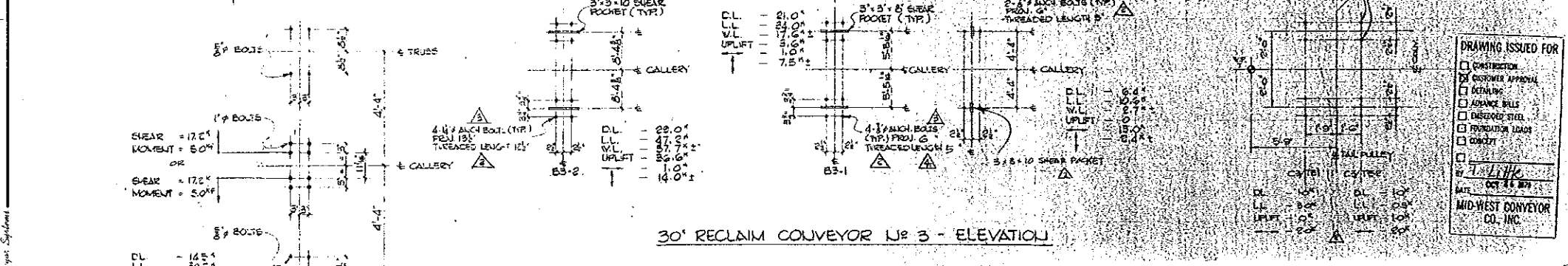
BELT/AS	DL VERT	LL VERT	VL VERT	UPLIFT	UPLIFT	FRICTION
B3-1A	2.4'	10.6'	27.1'	2.4'	130.0'	
B3-1	21.0'	34.0'	176.3'	7.55'	110.0'	3.6'
B3-2	21.6'	47.2'	57.7'	14.0'	1.0'	36.4'
LINE 4	14.5'	30.5'	11.8'	SEE NOTE BELOW		4.1'
CATER	1.0'	8.0'			20'	
CATER	1.0'	0.5'			20'	1.0'

CONVEYOR No. 4

BELT/AS	DL VERT	LL VERT	VL VERT	UPLIFT	UPLIFT	FRICTION
B4-A	17.4'	23.3'	5.6'	1.6'		3.4'
B4-1	30.3'	46.3'	153.4'	114.5'		33.3'
B4-2	33.1'	46.3'	138'	20.2'		7.0'
B4-T1	27'	32.1'	100'	17'	13'	82.0'
B4-T2	31'	32.1'	100'	17'	13'	82.0'
B4-3	41.5'	48.3'	125'	27.3'		107.5'
B4-4	46.3'	46.3'	177'	134.1'		47.0'
LINE 4	15'	25.0'	213.2'	SEE NOTE BELOW		1.4'

NOTE: WIND SHOE ON LINE 4 AT E OF GALLERY SHEAR = 20.3 kN MOMENT = 6.0 kN-m

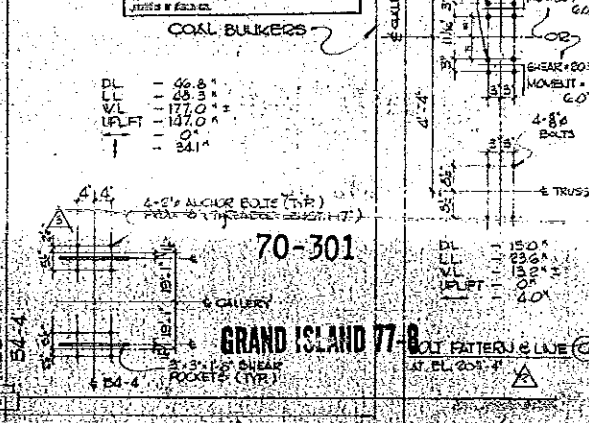
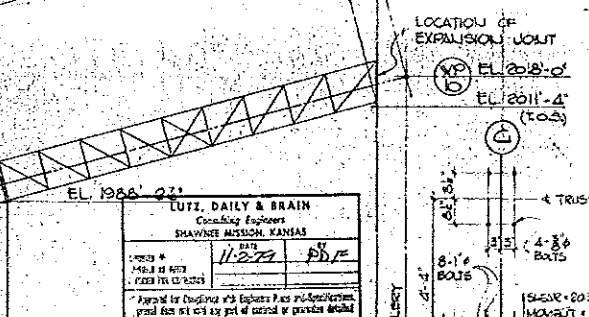
(* THIS SHEAR & MOMENT CAN ACT ON ANY OF THE 4-1/2" BOLT GROUP - SEE BOLT PATTERN ON LINE 4 CONV. NO. 3 & 4)



DRAWING ISSUED FOR

- CONSTRUCTION
- CUSTOMER APPROVAL
- REVISION
- ADVANCE BILLS
- ORDERED STEEL
- TRANSPORT LOADS
- CONCRETE

DATE: OCT 14 1975
MID-WEST CONVEYOR CO., INC.

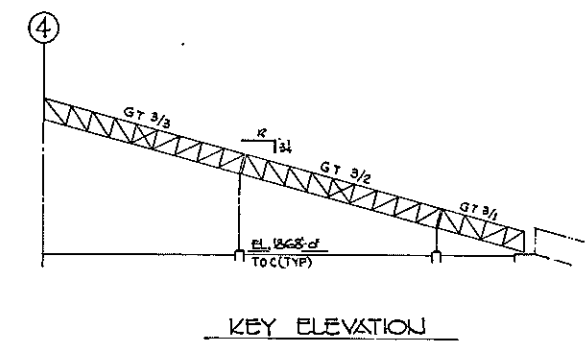
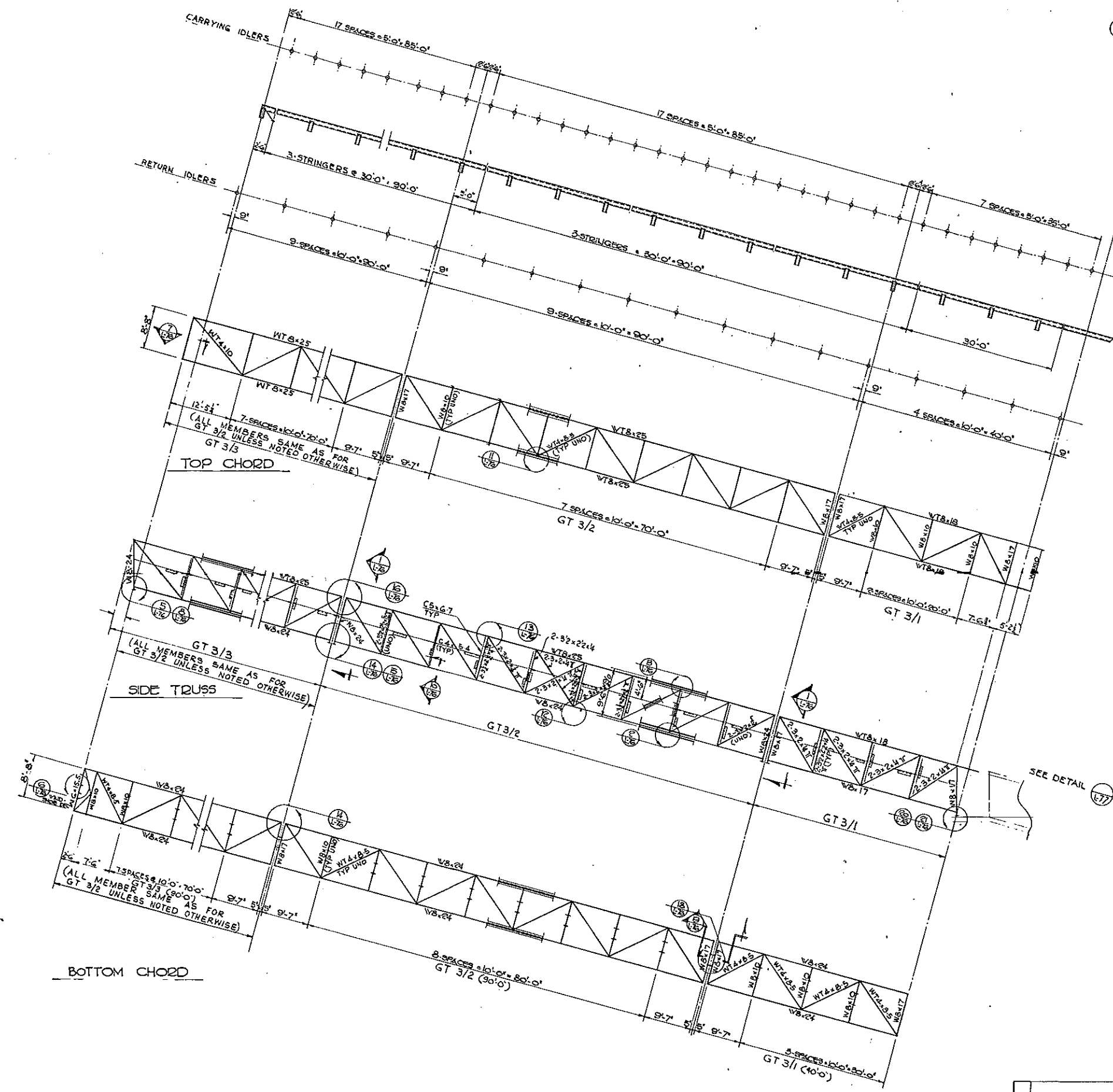


CONSULTING ENGINEERS - LUTZ, DAILY & BRAIN

MID-WEST CONVEYOR CO., INC.
SUBSIDIARY OF CONCRETE CORPORATION
KANSAS CITY, KANSAS

CONVEYOR ELEVATIONS
CONVEYORS No. 3 & 4
COAL HANDLING SYSTEM - CITY OF GRAND ISLAND
PLATE GENERATING STATION AT GRAND ISLAND, NEBRASKA

NOV 03 1975



KEY ELEVATION

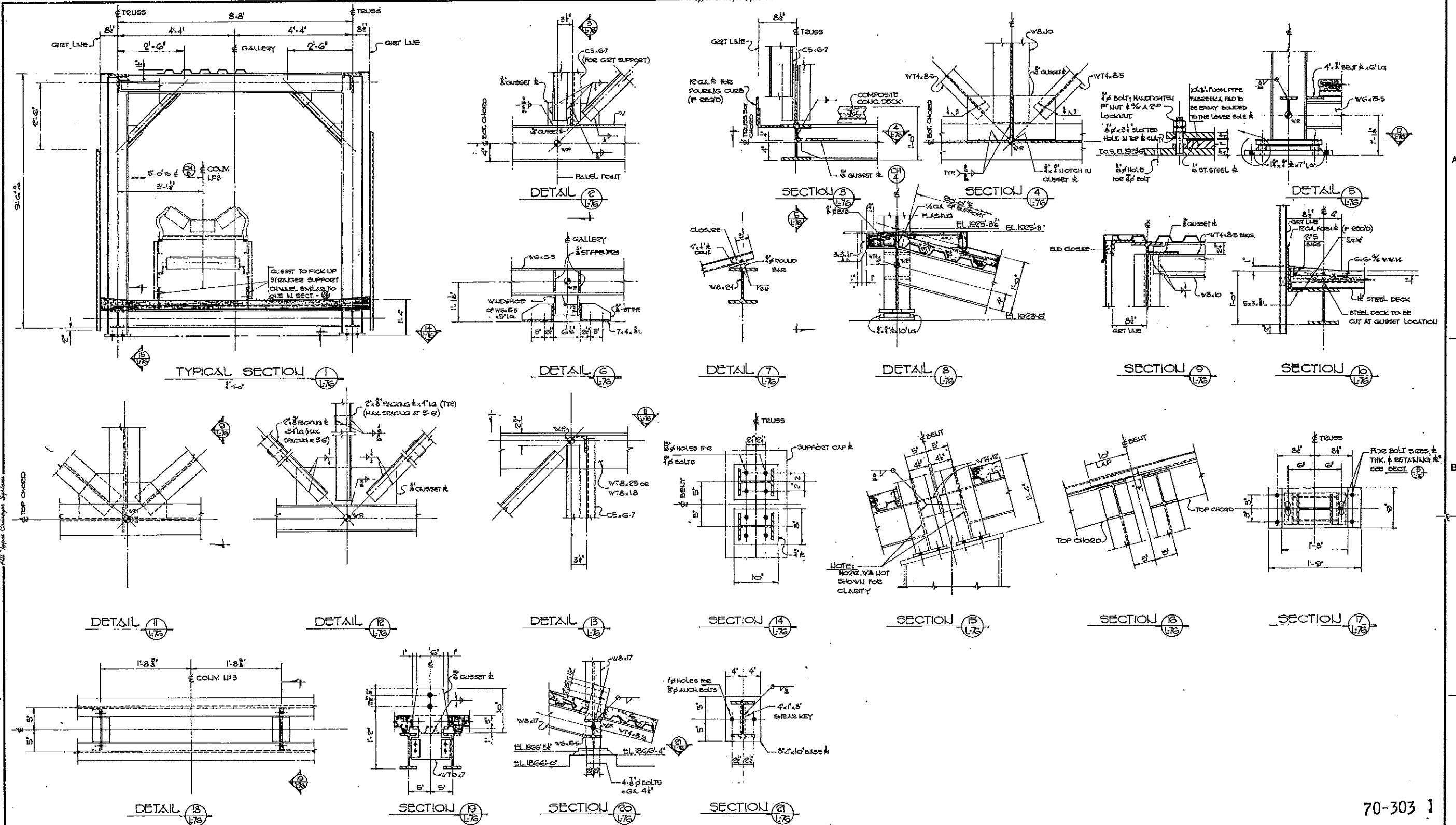
70-302 1

GRAND ISLAND 77-8
JUL 24 1981

RECORD DRAWING
DATE FEB 4 1983

CONSULTING ENGINEERS — LUTZ DAILY & BRAIN		MID-WEST CONVEYOR CO., INC. SUBSIDIARY OF CONERGIS CORPORATION KANSAS CITY — KANSAS		LOAD & CONTRACT NUMBER 77-8-208
TITLE: 30' RECLAIM CONVEYOR U#3				
ENCLOSED GALLERY STRUCTURE				
COAL HANDLING SYSTEM — CITY OF GRAND ISLAND				
PLATTE GENERATING STATION #1, GRAND ISLAND, NEBRASKA				
DESIGNED BY R. KRISHNA	CHECKED BY S. LAKSHMI	DATE FEB. 1979	SCALE 1/4" = 1'-0"	REV. NO. 1

REVISION	DATE	BY	CHKD.
RESUBMIT NO CHANGE	4/13/81		



70-303 1

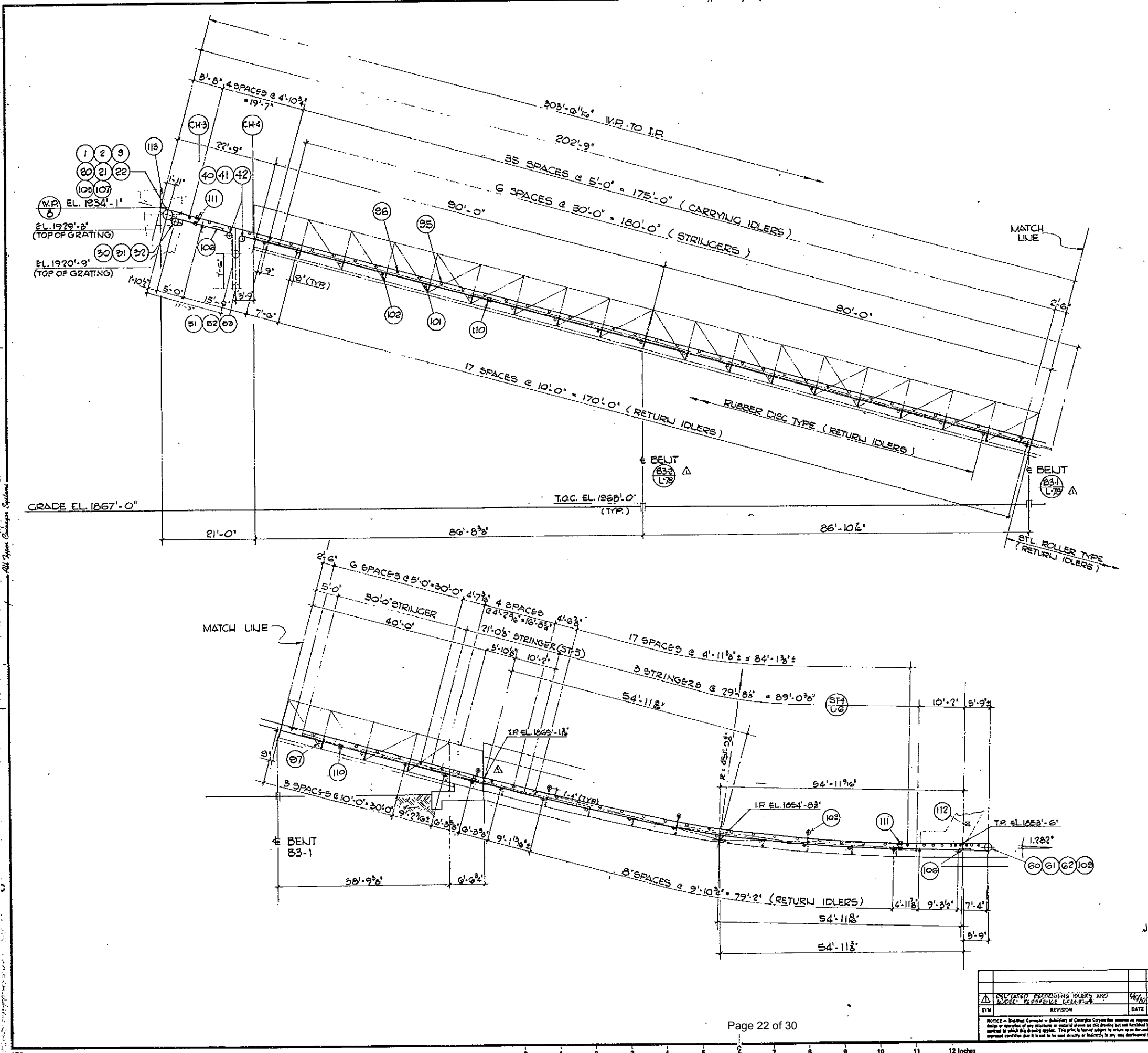
GRAND ISLAND 77-8

RECORD DRAWING
DATE FEB 4 1983

JUL 24 1981
CONSULTING ENGINEERS - LUTZ DAILY & BRAIN

MID-WEST CONVEYOR CO., INC.
SUBSIDIARY OF CONEGIS CORPORATION
KANSAS CITY - KANSAS

TITLE		80' RECLAIM CONVEYOR U#3	
ENCLOSURE		ENCLOSED GALLERY - SECTIONS AND DETAILS	
PROJECT		COAL HANDLING SYSTEM - CITY OF GRAND ISLAND	
LOCATION		PLATTE GENERATING STATION #1, GRAND ISLAND, NEBRASKA	
DATE	BY	DATE	BY
12-2-81	J. FRAGUE	7-20-82	L76
SCALE	DATE	SCALE	DATE
1/8" = 1'-0"	MARCH 1979	1/8" = 1'-0"	MAY 1979



DESIGN DATA									
MATERIAL	COAL	MOISTURE	80%	TYP. 600 TPD					
BELT SPEED	ACTUAL	THEORY	750	408.75					
DRIVE MECHANICAL COMPONENTS									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	MOTOR	1	WESTINGHOUSE	500	1				
2	GEARBOX	1	WESTINGHOUSE	500	1				
3	DRIVE SHAFT	1	WESTINGHOUSE	500	1				
4	DRIVE PULLEY	1	WESTINGHOUSE	500	1				
5	DRIVER SHAFT	1	WESTINGHOUSE	500	1				
6	DRIVER BEARING	2	WESTINGHOUSE	500	1				
7	DRIVER BELT	1	WESTINGHOUSE	500	1				
8	DRIVER ROLLER	1	WESTINGHOUSE	500	1				
9	DRIVER HOPPER	1	WESTINGHOUSE	500	1				
10	DRIVER TAKEUP	1	WESTINGHOUSE	500	1				
11	DRIVER TAIL	1	WESTINGHOUSE	500	1				
BELT CONVEYOR MECHANICAL COMPONENTS									
PULLEY LIST									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	DRIVE	1	WESTINGHOUSE	500	1				
2	TAKEUP	1	WESTINGHOUSE	500	1				
3	TAIL	1	WESTINGHOUSE	500	1				
SHAFTING LIST									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	DRIVE	1	WESTINGHOUSE	500	1				
2	TAKEUP	1	WESTINGHOUSE	500	1				
3	TAIL	1	WESTINGHOUSE	500	1				
BEARING LIST									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	DRIVE	2	WESTINGHOUSE	500	1				
2	TAKEUP	2	WESTINGHOUSE	500	1				
3	TAIL	2	WESTINGHOUSE	500	1				
IDLER LIST									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	RETURN	17	WESTINGHOUSE	500	1				
2	TROUGH	3	WESTINGHOUSE	500	1				
3	TRANSITION	1	WESTINGHOUSE	500	1				
BELTING									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	CONVEYOR	1	WESTINGHOUSE	500	1				
ACCESSORIES									
NO.	DESCRIPTION	QTY	MANUFACTURER	ITEM NO.	REV.				
1	ROLLER	1	WESTINGHOUSE	500	1				
2	SCRAPER	1	WESTINGHOUSE	500	1				
3	TAKEUP	1	WESTINGHOUSE	500	1				
4	ROLLER	1	WESTINGHOUSE	500	1				
5	TAKEUP	1	WESTINGHOUSE	500	1				

REFERENCE DVGS.

- L-72 TAIL END AND LOADER DETAILS
- L-73 HEAD END DETAILS
- L-74 RECLAIM HOPPER AREA LOADS - DETAILS
- L-81 TAKE-UP DETAILS
- L-82 VIBRATING FEEDER DETAILS

70-305

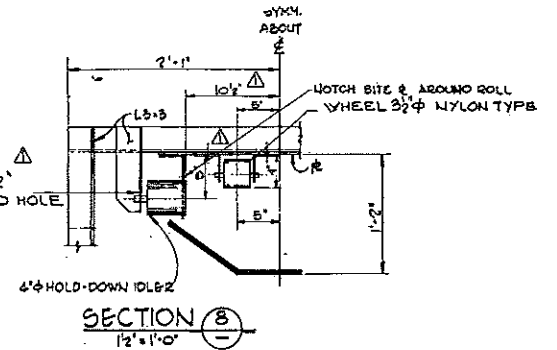
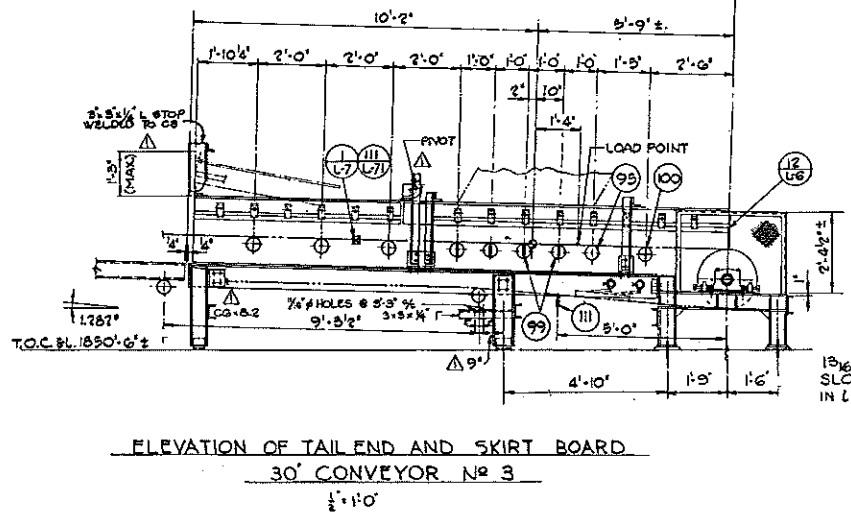
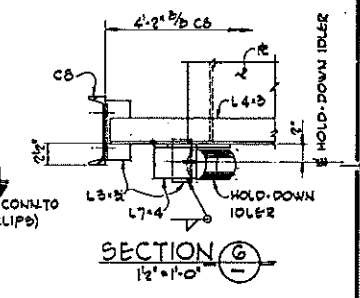
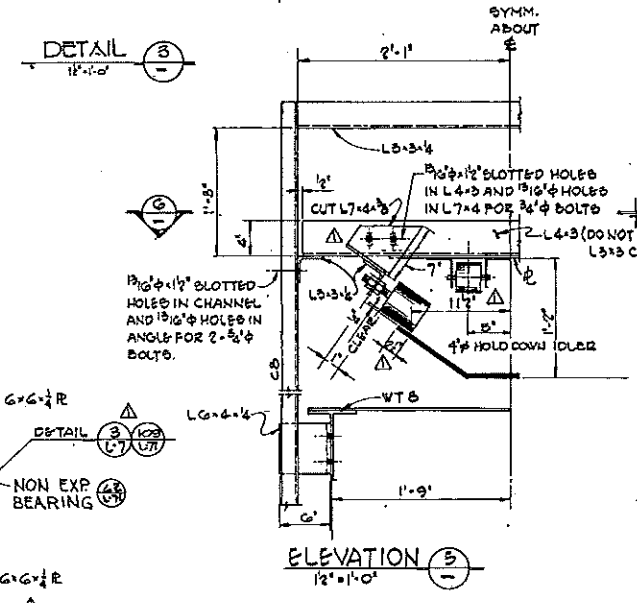
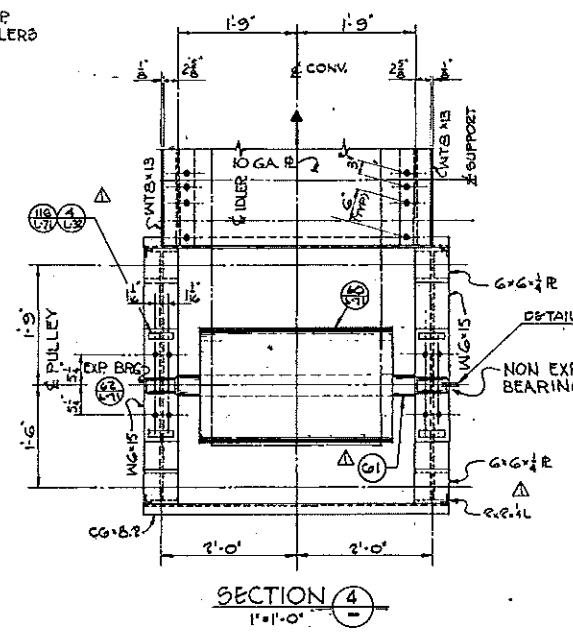
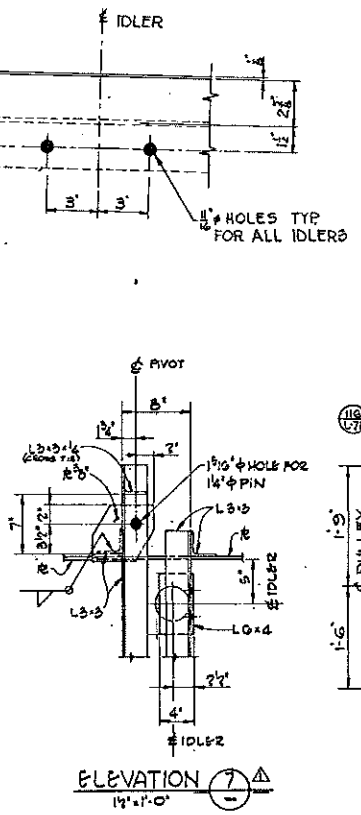
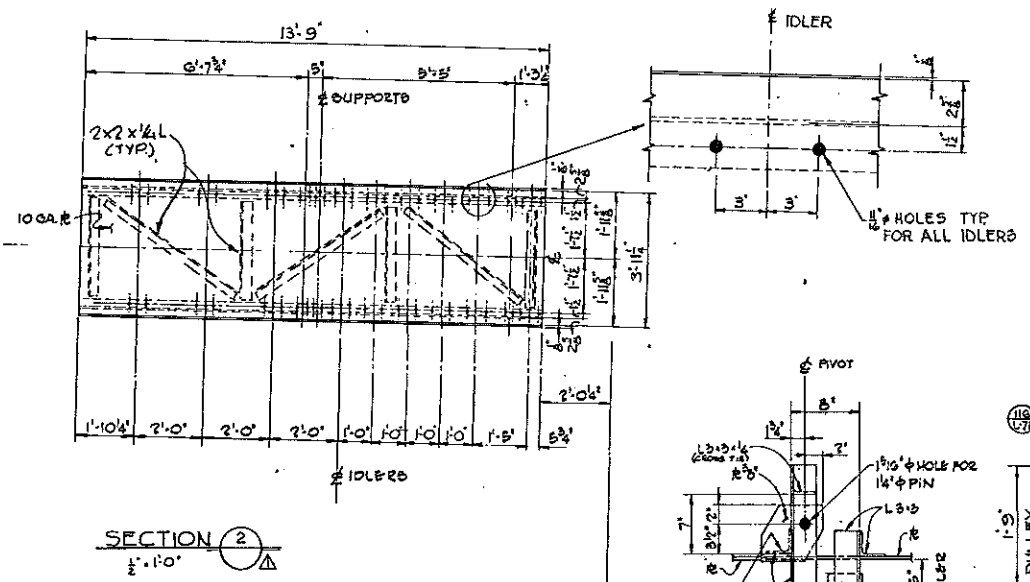
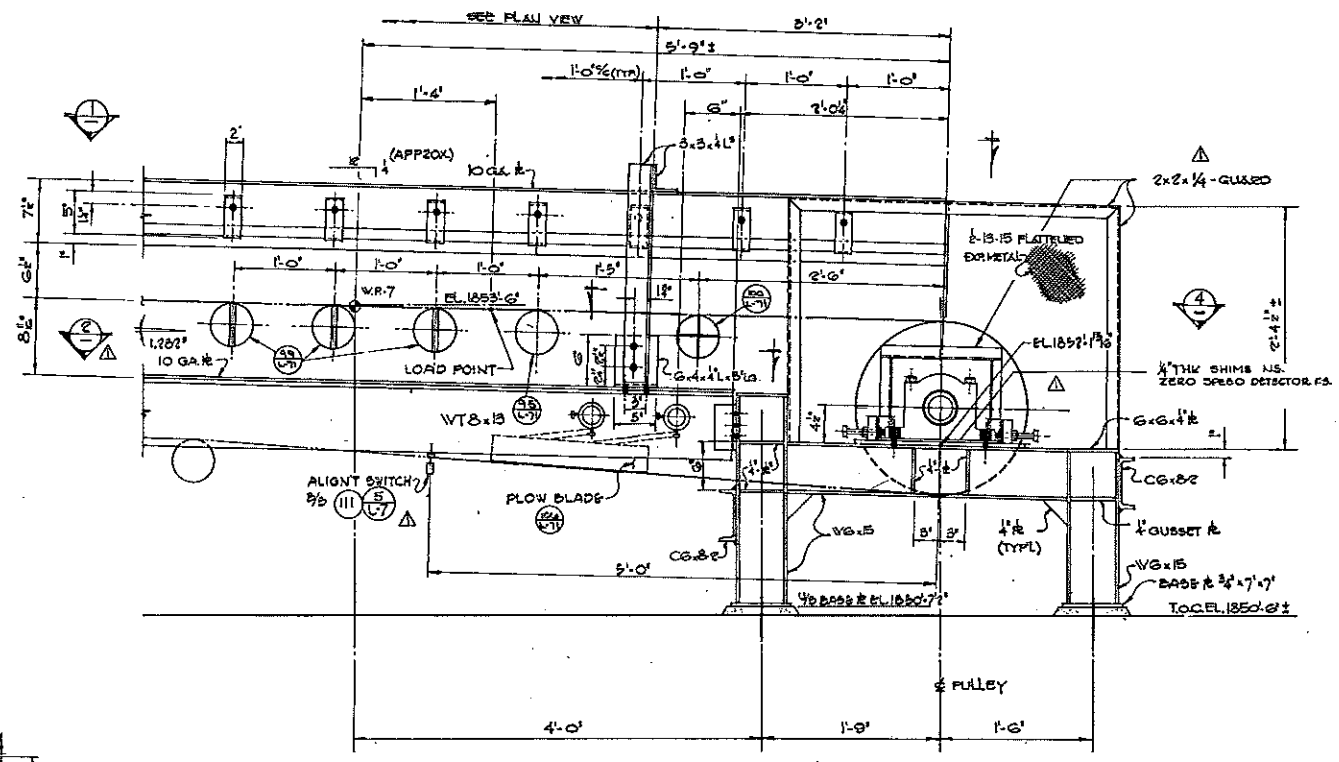
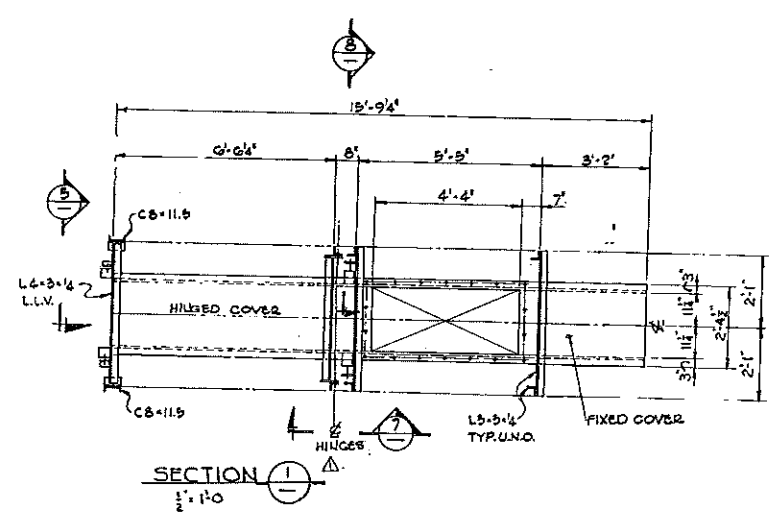
REVISION
FEB 4 1983

GRAND ISLAND 77-8

JUL 24 1981 CONSULTING ENGINEERS - LUTZ DAILY & BRAIN

MID-WEST CONVEYOR CO., INC.
SUBSIDIARY OF CONERGICS CORPORATION
KANSAS CITY - KANSAS

TITLE	30' RECLAIM CONVEYOR NO. 3 GENERAL ARRANGEMENT			
PROJECT	COAL HANDLING SYSTEM - CITY OF GRAND ISLAND PLATE GENERATING STATION #1, GRAND ISLAND, NEBRASKA			
SCALE	1/8" = 1'-0"	DATE	FEB 78	REV.
DR.	V.K.A.	CHECKED	J.G.G.	DATE
NO.	78-7022	BY	L71	1



GRAND ISLAND 77-3

JUL 24 1981

CONSULTING ENGINEERS — LUTZ DAILY & BRAIN

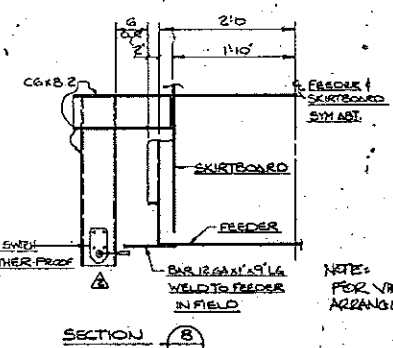
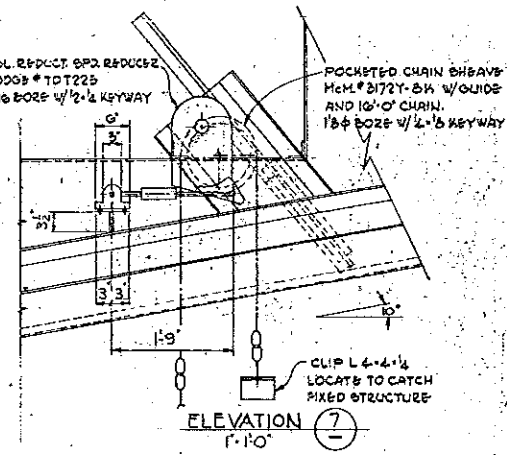
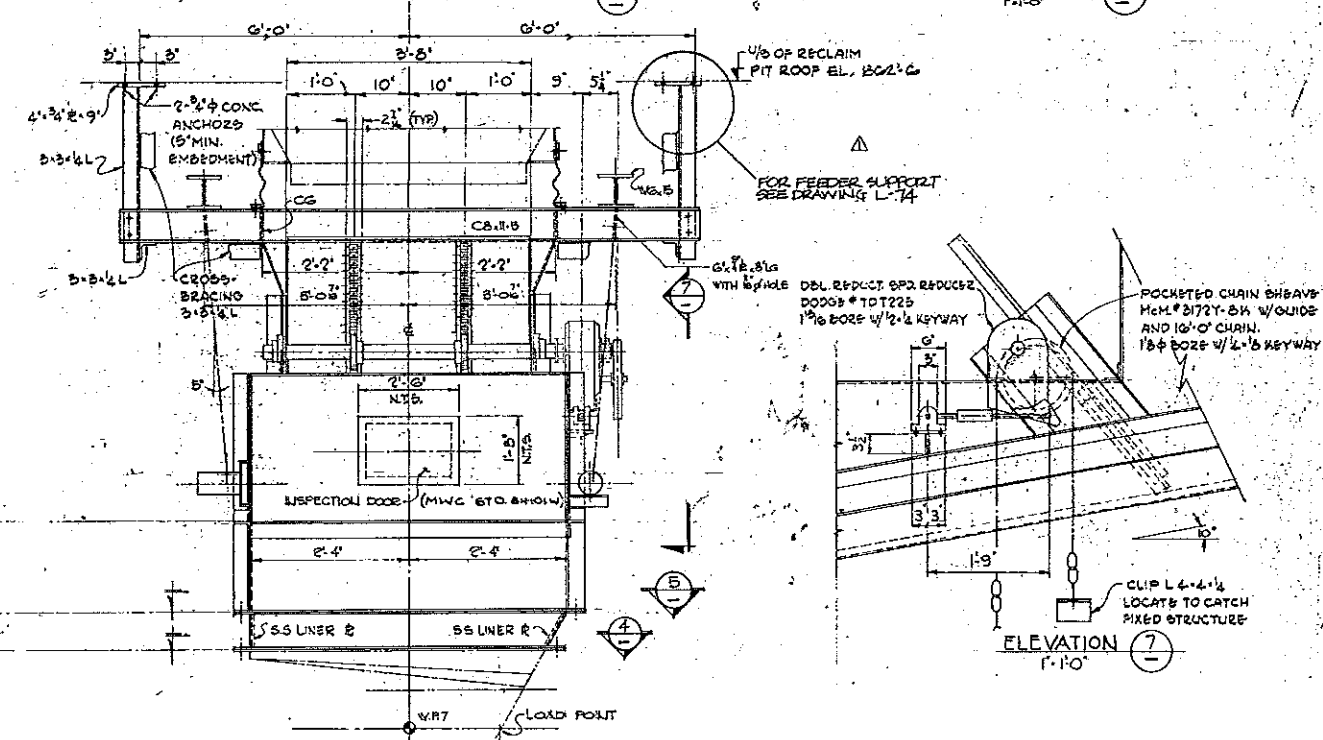
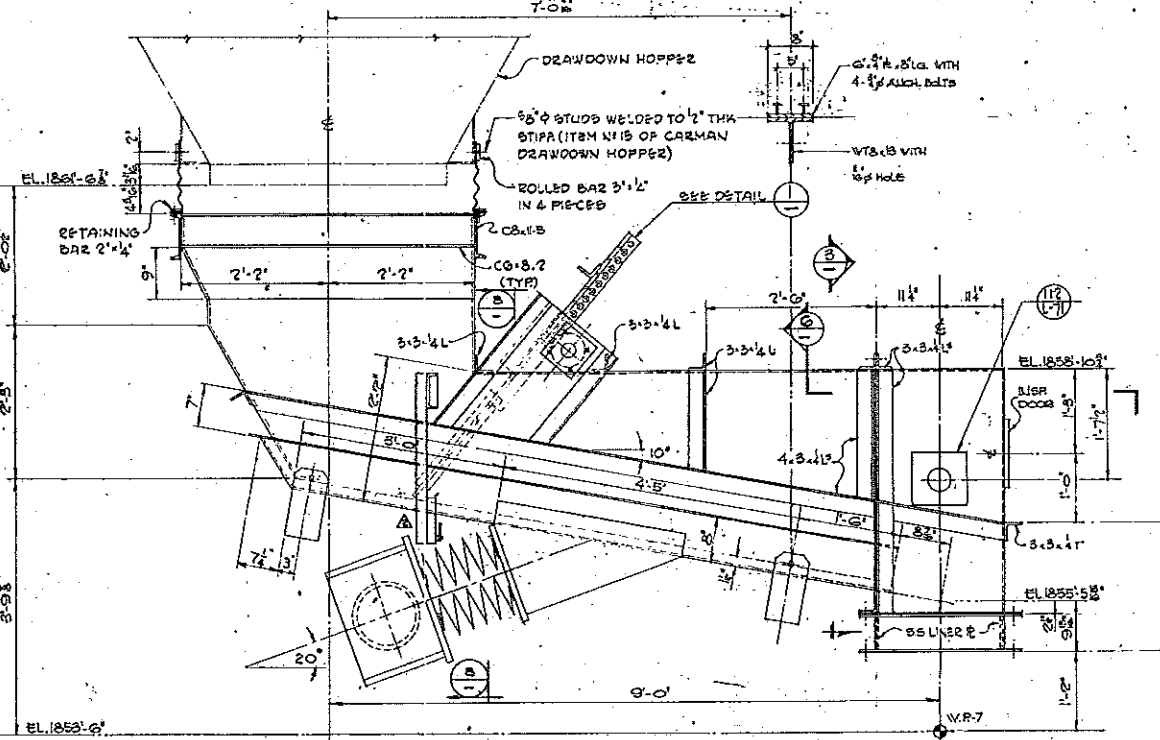
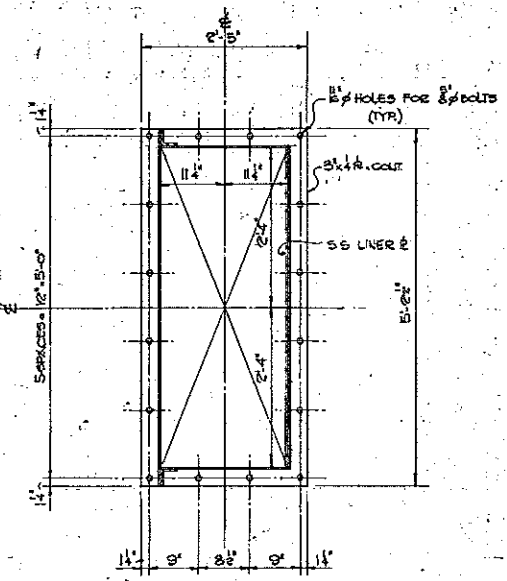
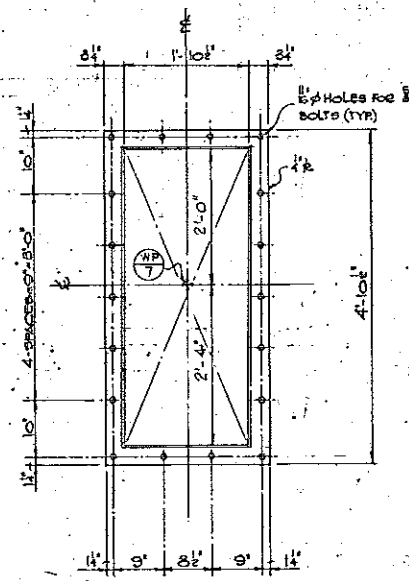
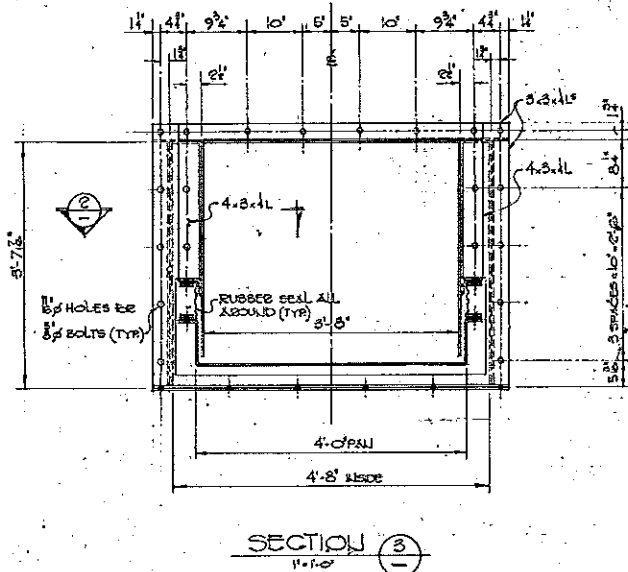
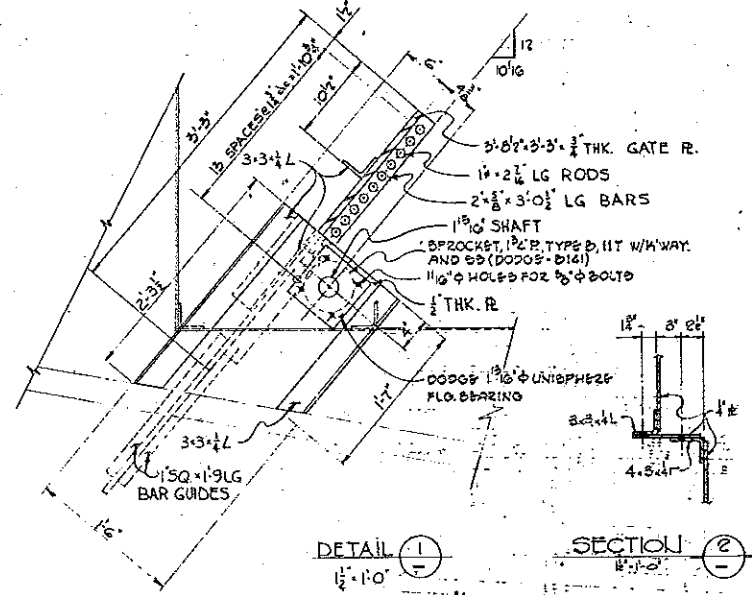
MID-WEST CONVEYOR CO., INC.
 SUBSIDIARY OF CONERGICS CORPORATION
 KANSAS CITY - KANSAS

LOG#
 CONTRACT
 NUMBER
 77-307

TITLE		30' RECLAIM CONVEYOR LPS	
SUBTITLE		TAIL END AND LOADER DETAILS	
PROJECT		COAL HANDLING SYSTEM — CITY OF GRAND ISLAND	
LOCATION		PLATTE GENERATING STATION #1, GRAND ISLAND, NEBRASKA	
BY	DATE	BY	DATE
E. KRISHNA	APR 1979	V.K.P.	MAY 1979
SCALE	SHOW	DATE	DATE
		78-7022	L-72

NOTES — Mid-West Conveyor — Subsidiary of Conergics Corporation assumes no responsibility for the design or operation of any structure or material shown on this drawing but not fabricated by or under the contract to which this drawing applies. This print is issued subject to terms upon demand and upon the expressed condition that it is not to be used directly or indirectly in any way different from that shown.

RECORD DRAWING
 DATE FEB 4 1983



DRAWING ISSUED FOR
 LUTZ, DAILY & BRAIN
 CONSULTING ENGINEERS
 8-30-51
 MAR 2 - 1951

REFERENCE DWGS:
 L-71 GEN. ARR. CONV. N&S
 L-6 STD. MECH. DETAIL B

CONSULTING ENGINEERS - LUTZ, DAILY & BRAIN
MID-WEST CONVEYOR CO., INC.
 SUBSIDIARY OF CONERWICK CORPORATION
 KANSAS CITY, KANSAS

NO.	REVISION	DATE	BY	CHKD.
1	ADDED WEATHER-PROOF UNIT SWITCH	3/1/51	LD	LD
2	REVISED AS NOTED	3/1/51	LD	LD

MCW Job No. 78-7022
MCW P.O. No. 9274
Platte Generating Station

MOTOR DATA SHEET

Motor Application Conveyors 1 and 3

Motor Model RGZZ-405TS Motor Serial EL-1-5109-13789-1

HP 100 Service Factor 1.0

Full Load Speed, rpm 1770 Full Load Current at 1.0 113

RECORD DRAWING
FEB 4 1979

Locked Rotor Current, amps 725 Service Factor, amps 113

Volts 460

Phases 3 Frequency, Hz 60

Insulation Class B Temperature Rise, C 80°

Motor and Load Combined Acceleration Time, sec:
At full voltage * Later
At minimum starting voltage * Later

Bearing Type Ball Enclosure Type XP

Motor Weight 1305 lbs.

GRAND ISLAND 77-8

Additional information required for motors larger than 150 hp:

Efficiency: Load 50% 92 75% 93 100% 93

Power Factor: Load 50% 83 75% 88 100% 89.5

Minimum Starting Voltage N/A Safe Stall Time 29 sec. cold
17 sec. hot

Frequency of Starts 2 cold, 1 hot/hr. Rotation _____

Current Transformer Ratio N/A

Thermocouples: Bearings Number _____ Type _____

Stator Number _____ Type _____

Motor Winding RTD's: Number _____ Resistance _____

Space Heaters: Voltage 115 Wattage 240

Critical Speed for motors rated 3500 HP or larger, rpm _____

CITY OF GRAND ISLAND LUTZ, DAILY & BRAIN Contract No. _____
Grand Island, Nebraska Consulting Engineers Sheet of _____

CERTIFICATION

CUSTOMER MIDWEST CONVEYOR COMPANY, INC.

P.O. 9274

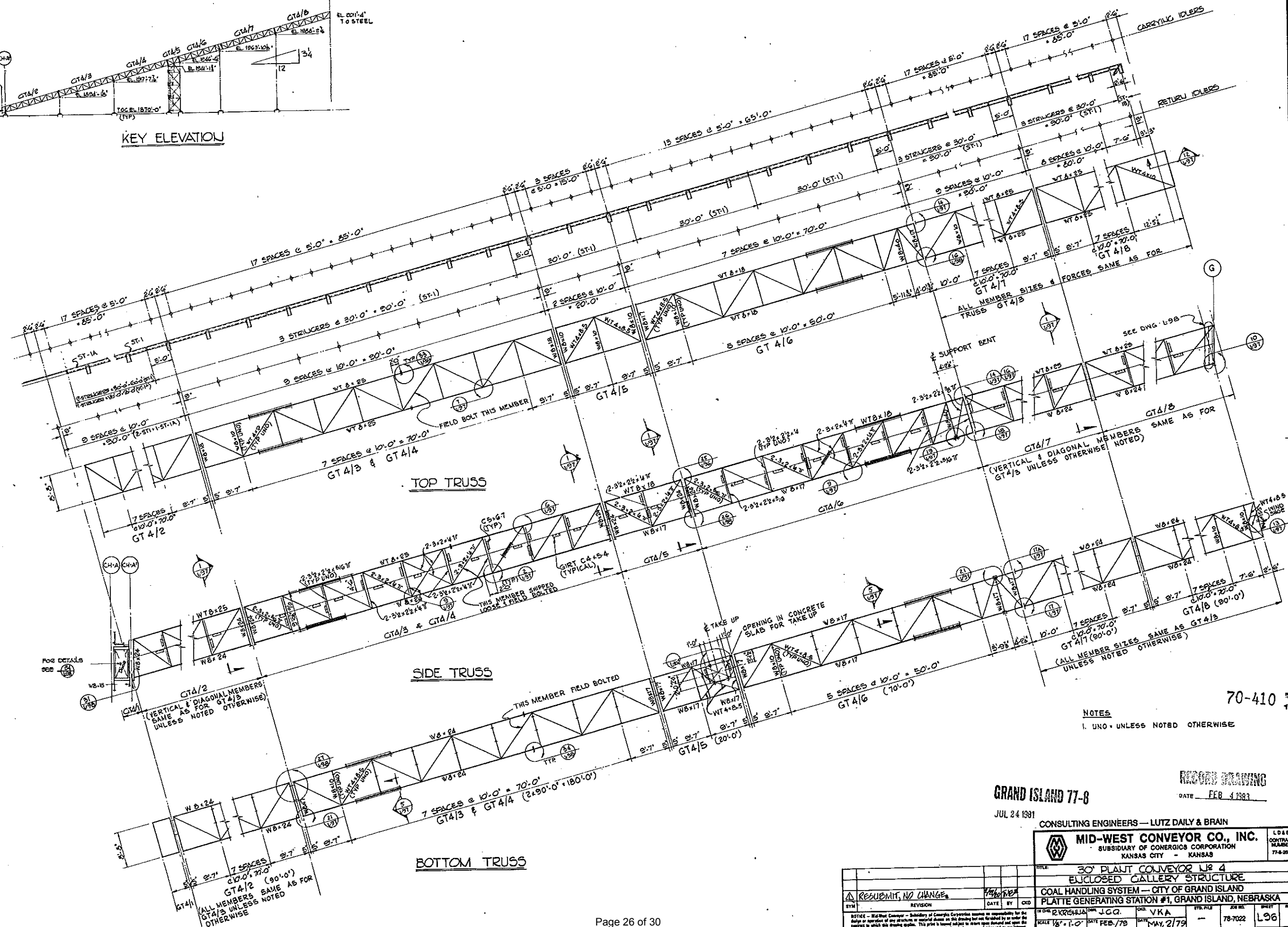
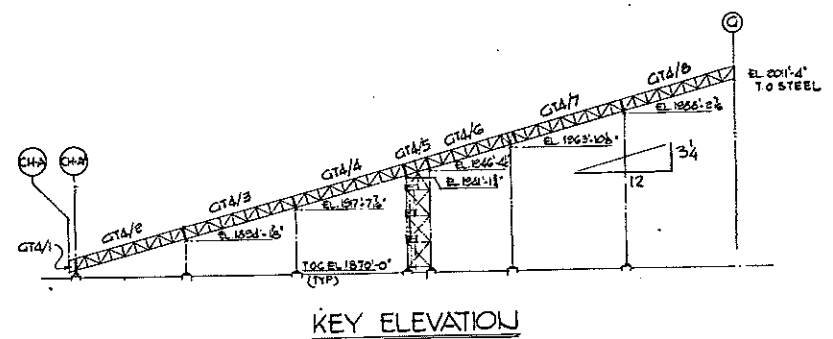
S.O. EL13789

Signed William H. Paulsen

APR 02 1979

* Require speed/torque curve of driven equipment to calculate

70-1220



NOTES
 1. UNO - UNLESS NOTED OTHERWISE

70-410

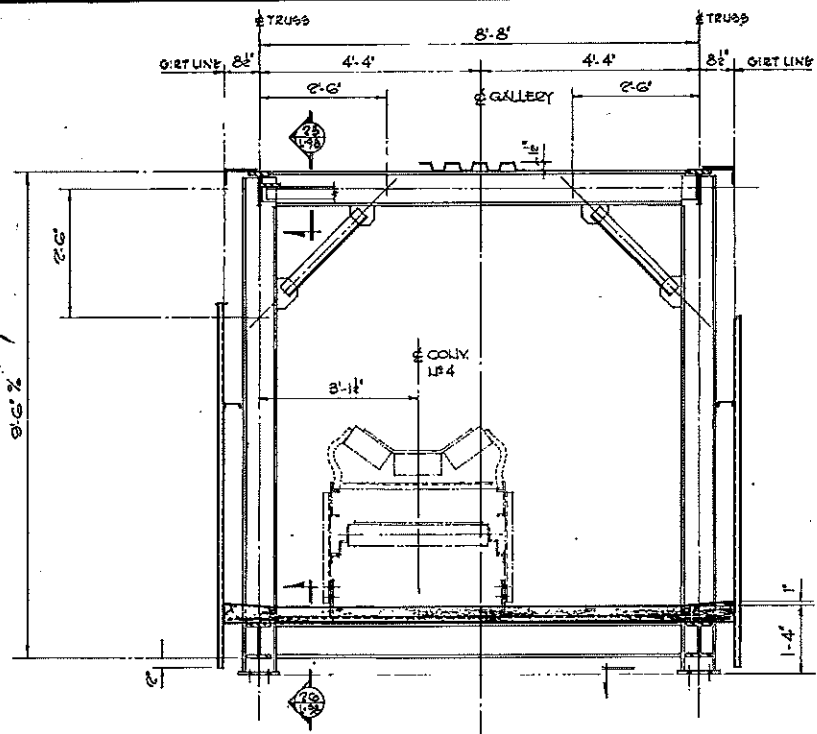
GRAND ISLAND 77-8

JUL 24 1981

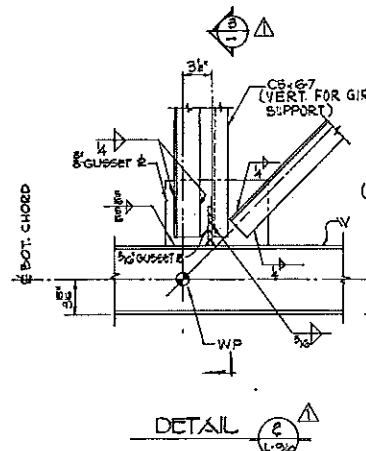
CONSULTING ENGINEERS - LUTZ DAILY & BRAIN

MID-WEST CONVEYOR CO., INC.
 SUBSIDIARY OF CONERGICS CORPORATION
 KANSAS CITY - KANSAS

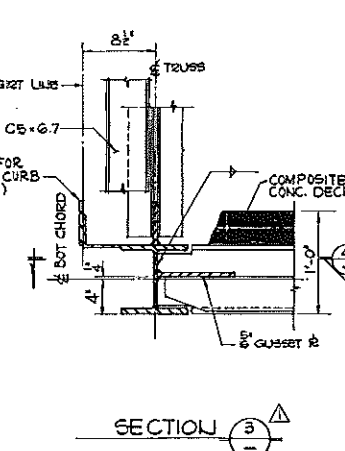
TITLE		30' PLANT CONVEYOR No 4	
ENCLOSED GALLERY STRUCTURE		COAL HANDLING SYSTEM - CITY OF GRAND ISLAND	
PLATTE GENERATING STATION #1, GRAND ISLAND, NEBRASKA		DATE FEB 4 1981	
BY	DATE	BY	DATE
R. KRISHNA	J.G.G.	V.K.A.	MAY 2 1979
SCALE 1/8" = 1'-0"	DATE FEB 78	DATE MAY 79	78-7022
L 96		1	



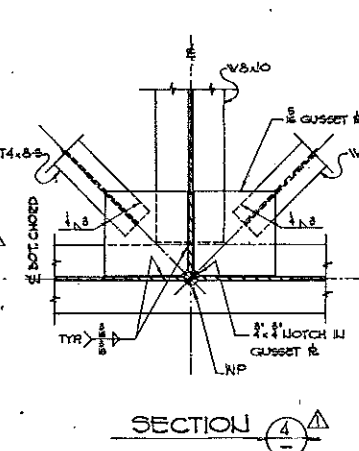
TYPICAL SECTION 1-1



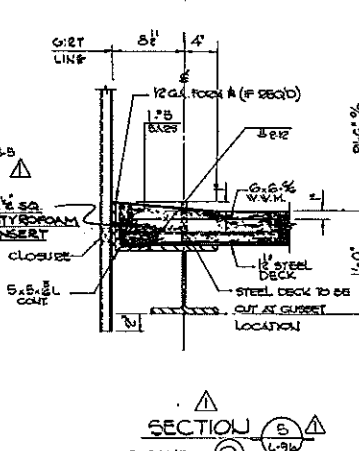
DETAIL 2



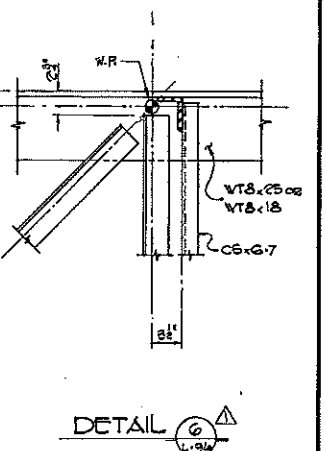
SECTION 3



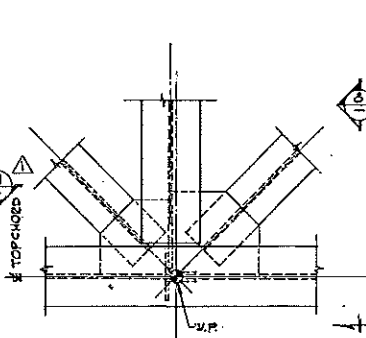
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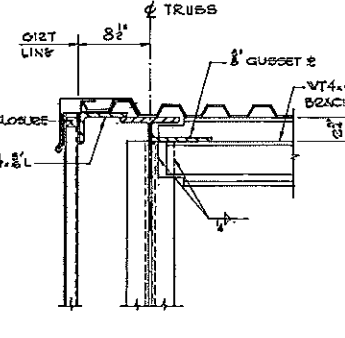
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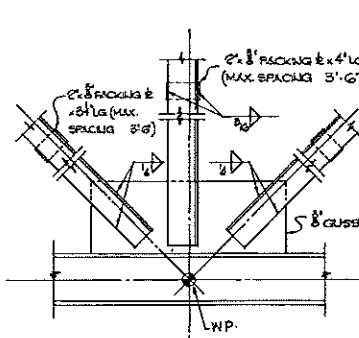
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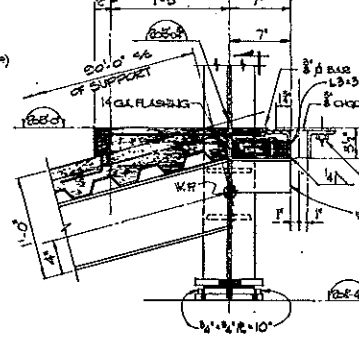
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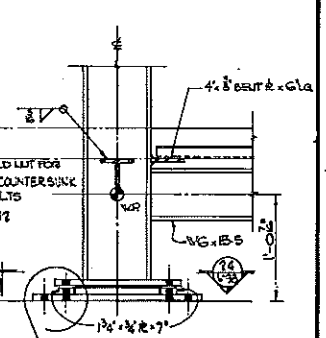
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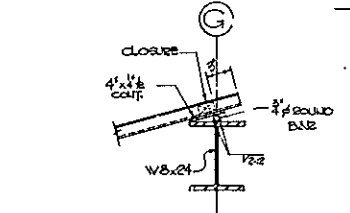
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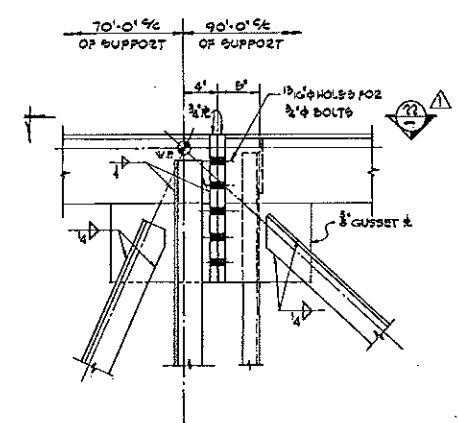
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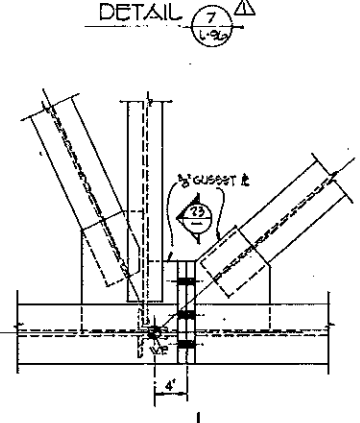
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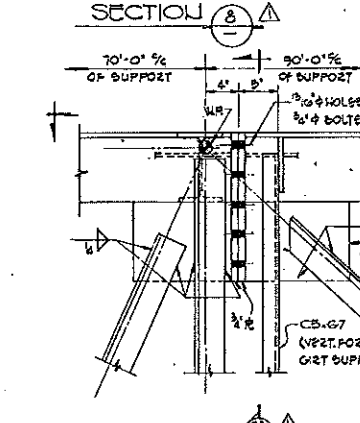
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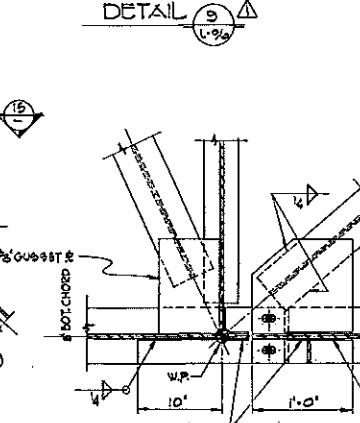
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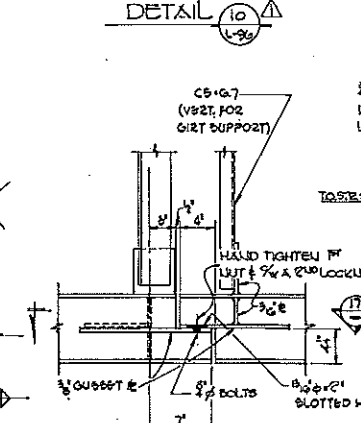
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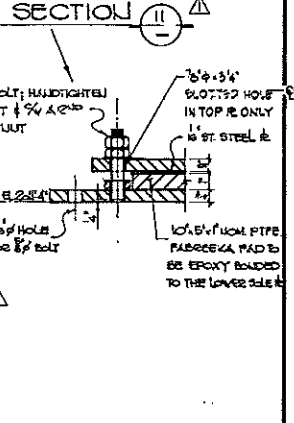
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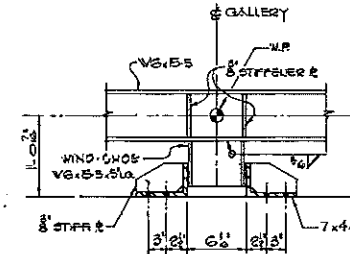
SECTION 15



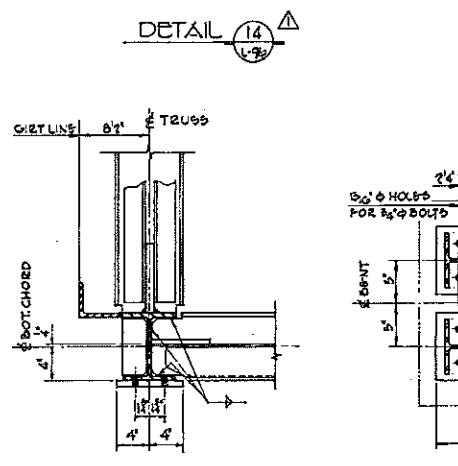
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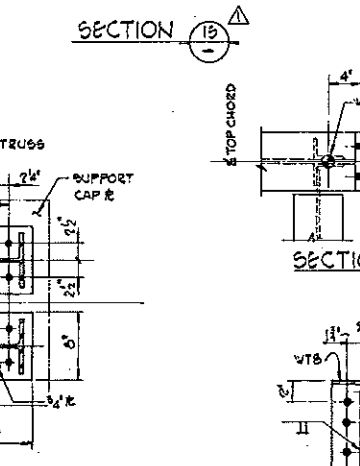
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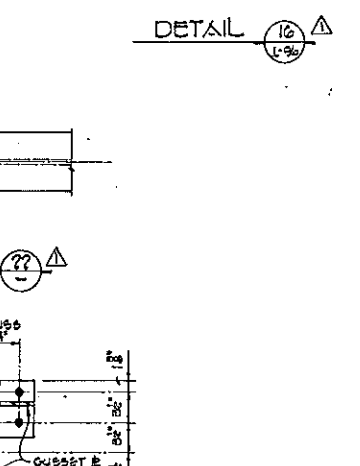
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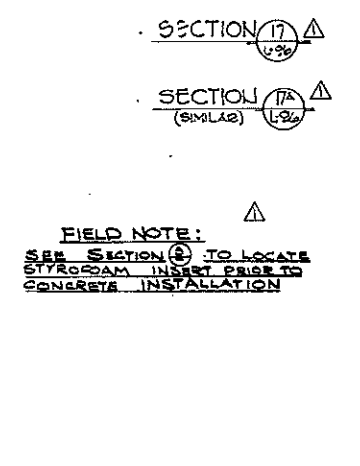
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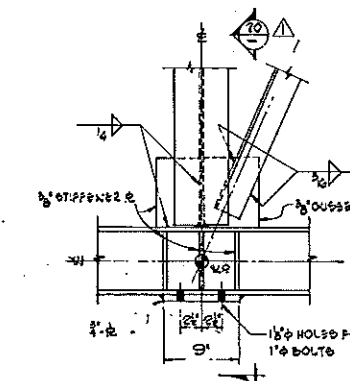
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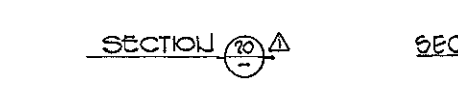
SECTION 21



SECTION 22



DETAIL 23



SECTION 24



SECTION 25



SECTION 26



SECTION 27

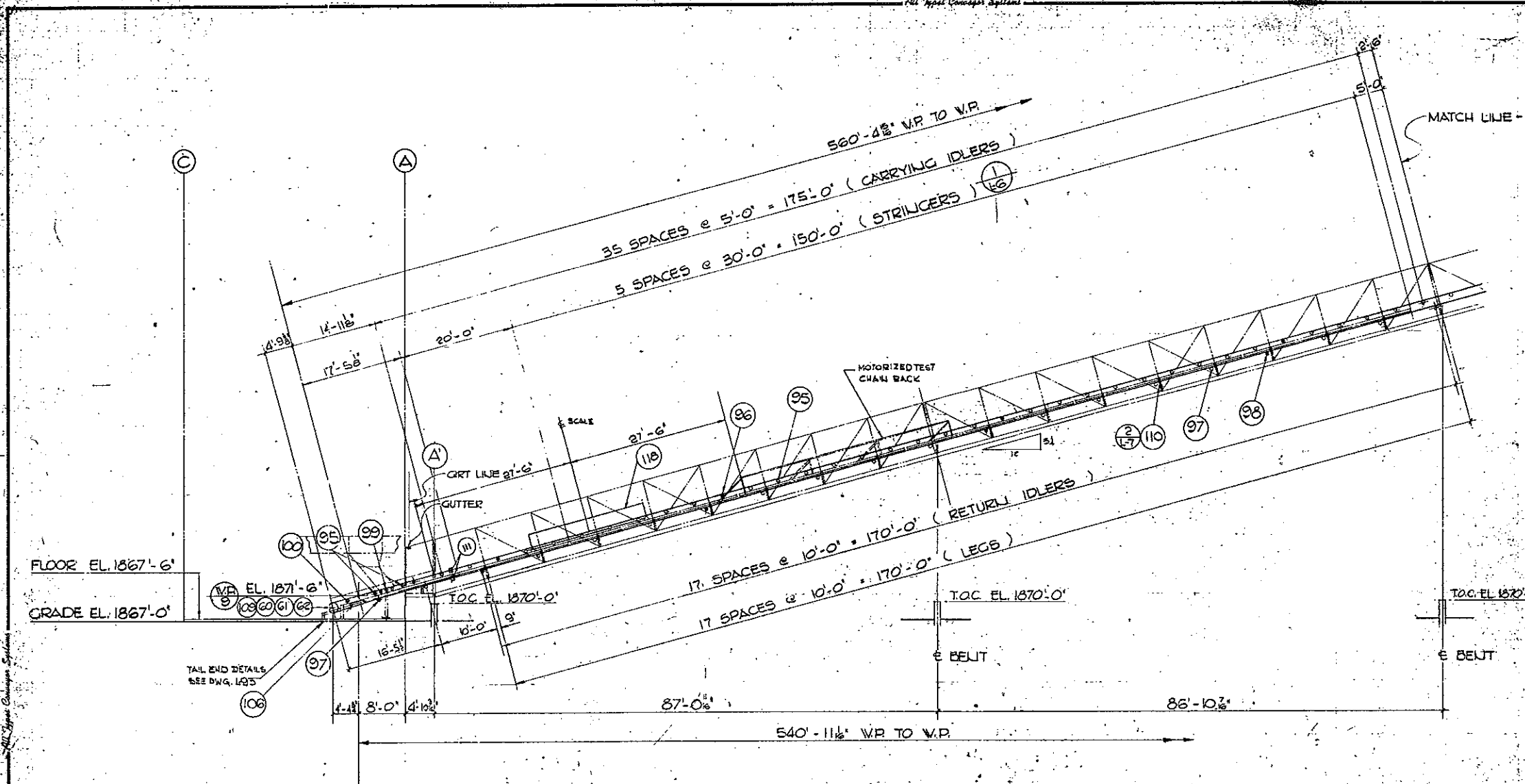
FIELD NOTE:
SEE SECTION 2 TO LOCATE
STYROFOAM INSERT PRIOR TO
CONCRETE INSTALLATION

70-411

REWORK DRAWING
DATE FEB 1 1983

GRAND ISLAND 77-8

JUL 24 1983		CONSULTING ENGINEERS — LUTZ DAILY & BRAIN	
MID-WEST CONVEYOR CO., INC.		L.D.B. CONTRACT NUMBER 77-8-20A	
SUBSIDIARY OF CONERGIS CORPORATION KANSAS CITY — KANSAS			
TITLE: 30' PLANT CONVEYOR LR4			
ENCLOSED GALLERY - SECTIONS & DETAILS 2-27			
COAL HANDLING SYSTEM — CITY OF GRAND ISLAND			
PLATTE GENERATING STATION #1, GRAND ISLAND, NEBRASKA			
SCALE: 1/2" = 1'-0" U.N.C.	DATE: MARCH 1979	DATE: MAY 1979	78-7022 L97 1



DESIGN DATA											
MATERIAL	COAL	ST. PILES	FT. 50'	Y.P.M.	600						
BELT SPEED	ACTUAL	1800	FT. PER MIN.	1800	1800						
DRIVE MECHANICAL COMPONENTS											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE MOTOR	1	150	HP	WESTINGHOUSE	3254					
2	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
3	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
4	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
5	DRIVE BRACKET	1	18	IN.	STEEL	3254					
6	DRIVE CHAIN	1	1 1/2	IN.	STEEL	3254					
7	DRIVE LINK	1	1 1/2	IN.	STEEL	3254					
8	DRIVE SPROCKET	1	18	IN.	CAST IRON	3254					
9	DRIVE BRACKET	1	18	IN.	STEEL	3254					
10	DRIVE BRACKET	1	18	IN.	STEEL	3254					
11	DRIVE BRACKET	1	18	IN.	STEEL	3254					
12	DRIVE BRACKET	1	18	IN.	STEEL	3254					
BELT CONVEYOR MECHANICAL COMPONENTS											
PULLEY LIST											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
2	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
3	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
4	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
5	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
6	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
7	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
8	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
9	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
10	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
11	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
12	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
SHAFTING LIST											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
2	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
3	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
4	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
5	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
6	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
7	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
8	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
9	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
10	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
11	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
12	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
BEARING LIST											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
2	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
3	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
4	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
5	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
6	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
7	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
8	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
9	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
10	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
11	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
12	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
IDLER LIST											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
2	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
3	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
4	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
5	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
6	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
7	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
8	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
9	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
10	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
11	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
12	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
BELTING											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE BELT	1	36	IN.	CAST IRON	3254					
2	DRIVE BELT	1	36	IN.	CAST IRON	3254					
3	DRIVE BELT	1	36	IN.	CAST IRON	3254					
4	DRIVE BELT	1	36	IN.	CAST IRON	3254					
5	DRIVE BELT	1	36	IN.	CAST IRON	3254					
6	DRIVE BELT	1	36	IN.	CAST IRON	3254					
7	DRIVE BELT	1	36	IN.	CAST IRON	3254					
8	DRIVE BELT	1	36	IN.	CAST IRON	3254					
9	DRIVE BELT	1	36	IN.	CAST IRON	3254					
10	DRIVE BELT	1	36	IN.	CAST IRON	3254					
11	DRIVE BELT	1	36	IN.	CAST IRON	3254					
12	DRIVE BELT	1	36	IN.	CAST IRON	3254					
ACCESSORIES											
NO.	DESCRIPTION	QTY.	SIZE	TYPE	MANUFACTURER	P.O. NO.					
1	DRIVE MOTOR	1	150	HP	WESTINGHOUSE	3254					
2	DRIVE SHAFT	1	4 1/2	IN.	STEEL	3254					
3	DRIVE PULLEY	1	36	IN.	CAST IRON	3254					
4	DRIVE BEARING	2	1 1/2	IN.	STEEL	3254					
5	DRIVE BRACKET	1	18	IN.	STEEL	3254					
6	DRIVE CHAIN	1	1 1/2	IN.	STEEL	3254					
7	DRIVE LINK	1	1 1/2	IN.	STEEL	3254					
8	DRIVE SPROCKET	1	18	IN.	CAST IRON	3254					
9	DRIVE BRACKET	1	18	IN.	STEEL	3254					
10	DRIVE BRACKET	1	18	IN.	STEEL	3254					
11	DRIVE BRACKET	1	18	IN.	STEEL	3254					
12	DRIVE BRACKET	1	18	IN.	STEEL	3254					

REFERENCE DWGS.

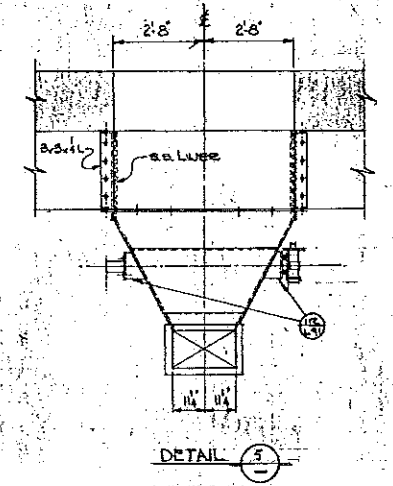
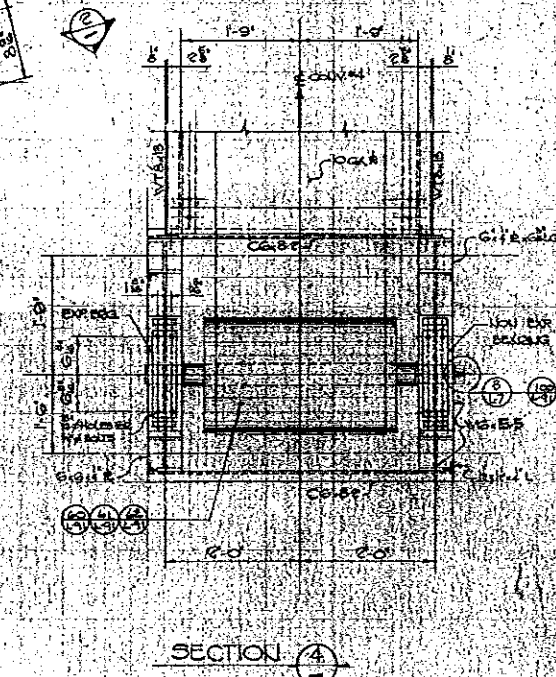
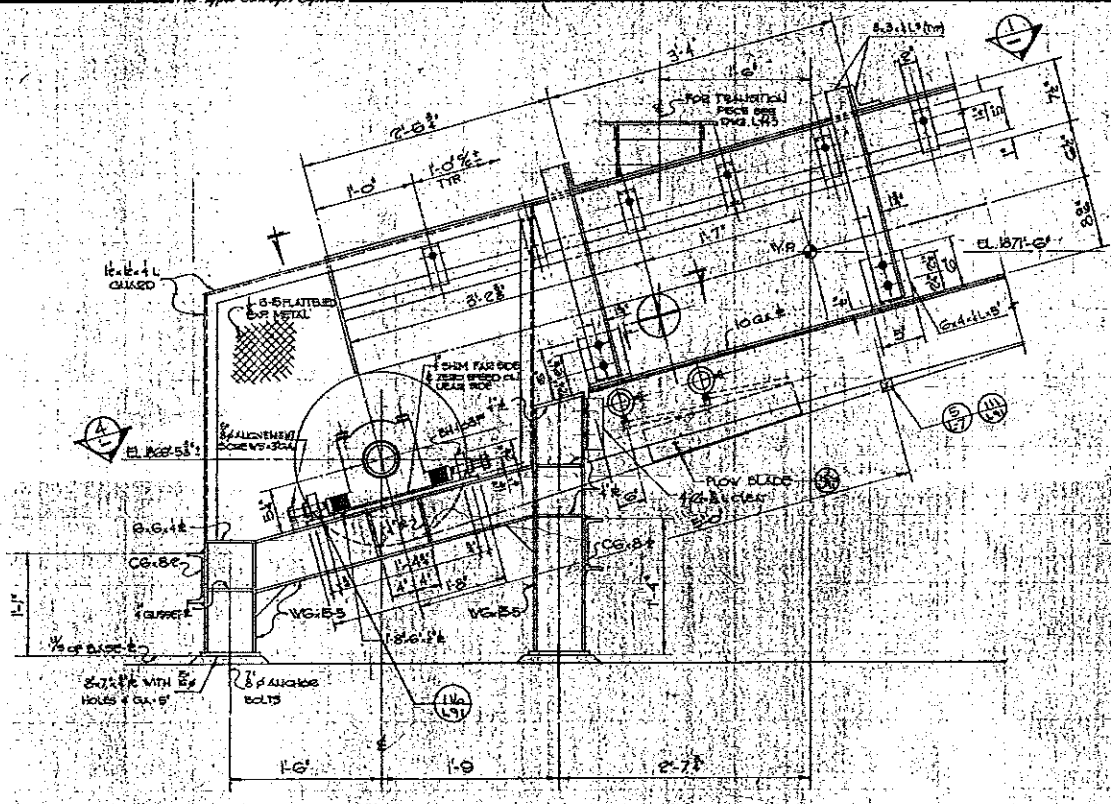
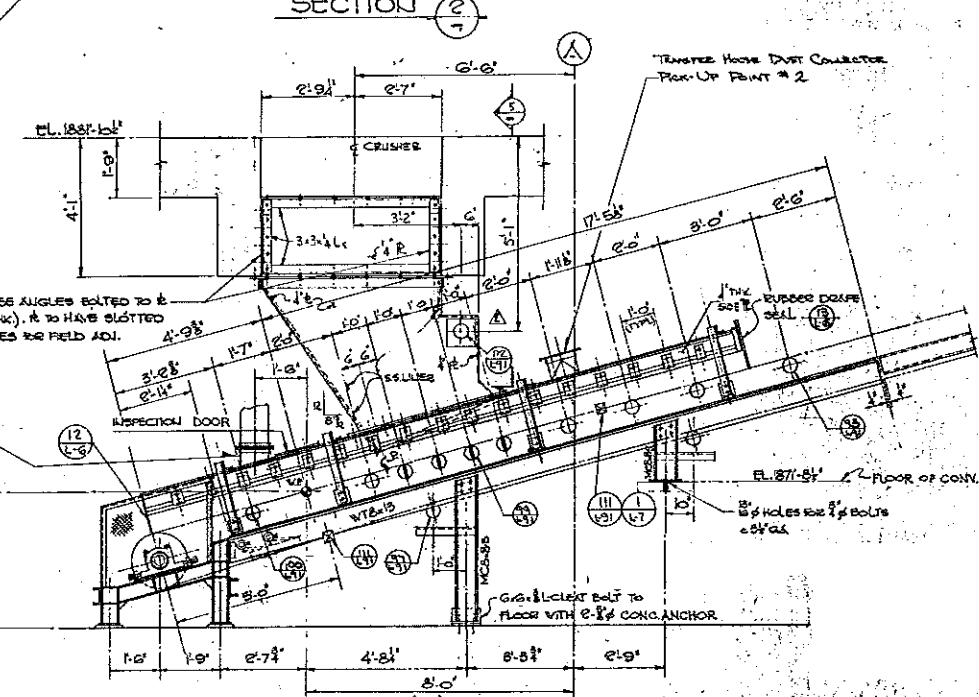
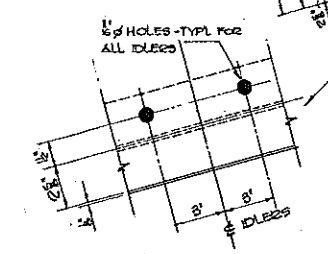
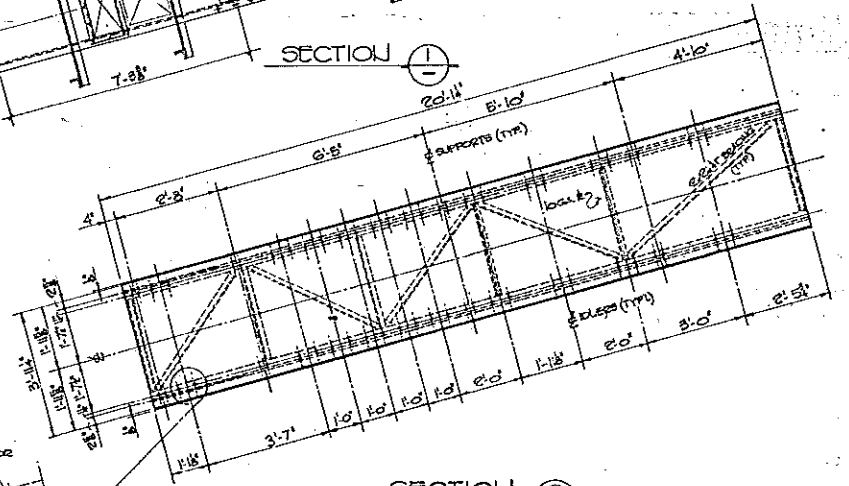
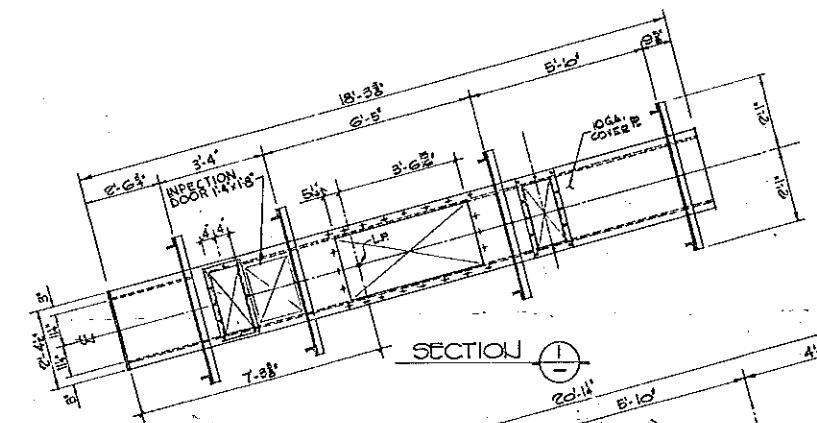
- L-92 GENERAL ARRANGEMENT - SHEET 2 OF 2
- L-93 TAIL END AND LOADER DETAILS
- L-94 HEAD END DETAILS
- L-102 TAKE-UP DETAILS

DRAWING ISSUED FOR
 APPROVED
 CHECKED
 DESIGNED
 CONFERENCE
 CALCULATION
 FINAL DESIGN

LUTZ, DAILY & BRAIN
 Consulting Engineers
 SHAWNEE MISSOURI, KANSAS
 3-12-81
 ARL

CONSULTING ENGINEERS - LUTZ, DAILY & BRAIN
 MID-WEST CONVEYOR CO., INC.
 SUBSIDIARY OF CONVERSE CORPORATION
 TANGIEN ILL. ILLINOIS

NO.	REVISION	DATE	BY	CHKD
1	AS SHOWN	3/12/81	ARL	



- NOTES:
1. LINER SHALL BE 1/4" THK. TYPE 304 STAINLESS STEEL ATTACHED TO CHUTE W/ STUDS WELDING
 2. CHUTE WORK & STEEL SHALL BE ASTM A-500 GRADE

REFERENCE DWG:
 L-6 STD. MECH. DETAILS
 L-7 STD. ELECT. DETAILS
 L-91 GEN. ARR. CONV. NTR

70-417

GRAND ISLAND 77-B

CONSULTING ENGINEERS: LUTZ DAILY & BRAIN

MID-WEST CONVEYOR CO. INC.

DATE: 11/18/80

BY: [Signature]

REV.	REVISION	DATE	BY	CHKD.
1	REVISED AS NOTED	11/18/80	[Signature]	[Signature]
2	REVISED AS NOTED	11/18/80	[Signature]	[Signature]

MOTOR DATA SHEET

MCW Job No. 78-7022
MCW P.O. No. 9274
Platte Generating Station

APR 30 1979 70-1226

Motor Application Conveyor 4

Motor Model RGZZ-445TS Motor Serial EL-1-5109-13789-2

HP 150 Service Factor 1.0

Full Load Speed, rpm 1775 Full Load Current at 1.0 169

Service Factor, amps 169

Locked Rotor Current, amps 1085 Volts 460

Phases 3 Frequency, Hz 60

Insulation Class B Temperature Rise, C 80°

Motor and Load Combined Acceleration Time, sec:
At full voltage * Later
At minimum starting voltage * Later

Bearing Type Ball (A-F) Enclosure Type XP

Motor Weight 2665 lbs.

Additional information required for motors larger than 150 hp:

Efficiency: Load 50% 93 75% 94 100% 94

Power Factor: Load 50% 80.5 75% 86.5 100% 88.5

Minimum Starting Voltage N/A Safe Stall Time 25 sec. cold
15 sec. hot

Frequency of Starts 2 cold, 1 hot/hr. Rotation _____

Current Transformer Ratio N/A

GRAND ISLAND 77-8

Thermocouples: Bearings Number _____ Type _____

Stator Number _____ Type _____

Motor Winding RTD's: Number _____ Resistance _____

Space Heaters: Voltage 115 Wattage 240

Critical Speed for motors rated 3500 HP or larger, rpm N/A

CITY OF GRAND ISLAND LUTZ, DAILY & BRAIN Contract No. _____
Grand Island, Nebraska Consulting Engineers Sheet _____ of _____

CERTIFICATION

CUSTOMER MIDWEST CONVEYOR COMPANY, INC.
P.O. 9274
S.O. EL13789
Signed William J. Parlow

APR 02 1979

* Require speed/torque curve of driven equipment to calculate