



Florida Municipal Power Agency

REQUEST FOR PROPOSALS

FOR

**TREASURE COAST ENERGY CENTER
HEAT RECOVERY STEAM GENERATOR
PENETRATION SEALS**

Florida Municipal Power Agency
8553 Commodity Circle
Orlando, Florida 32819-9002
(407) 355-7767 Fax (407) 355-5796

REQUEST FOR PROPOSALS

(This is not an order)

R
E Florida Municipal Power Agency
T TO: 8553 Commodity Circle
U Orlando, Florida 32819
R Attn: Sharon Samuels
N

RFP FMPA 2026-206a

Date Issued: June 4, 2026

Telephone: (407) 355-7767

SEALED PROPOSALS MUST PHYSICALLY BE IN THE FLORIDA MUNICIPAL POWER AGENCY OFFICE PRIOR TO PROPOSAL OPENING AT **10:00 A.M. EST ON JULY 8, 2026**, WHICH WILL BE IN THE FMPA FIRST FLOOR CONFERENCE ROOM LOCATED IN THE FMPA BUILDING AT 8553 COMMODITY CIRCLE, ORLANDO, FLORIDA 32819.

- Proposals shall be submitted electronically via Vendor Link or submitted physically at the FMPA office in Orlando. Forms provided in the RFP must be signed; DocuSign/ReadySign secure signatures are acceptable forms of signature.
- Proposals received after the opening date and time may be rejected and returned unopened.
- The attached Request for Proposals shall become part of any purchase order resulting from this Request for Proposal.

DESCRIPTION

June 2026

**Florida Municipal Power Agency
Request for Proposals for
Treasure Coast Energy Center HRSG Penetration Seals**

See attached Request for Proposals, General Conditions, Specifications, and Proposal Forms for detailed description.

It is the intent and purpose of the Florida Municipal Power Agency that this Request for Proposal promotes competitive bidding. It shall be the proposer's responsibility to advise if any language, requirements, etc. or any combination thereof, inadvertently restricts or limits the requirements stated in this Request for Proposal to a single source. Such notification must be submitted in writing and must be received by not later than ten (10) days prior to the proposal opening date.

ADVERTISEMENT

Proposal For

June 2026

**FLORIDA MUNICIPAL POWER AGENCY
REQUEST FOR PROPOSALS FOR
TREASURE COAST ENERGY CENTER HRSG PENETRATION SEALS**

**REQUEST FOR PROPOSALS
FMPA 2026-206a**

Sealed proposals will be received by the Florida Municipal Power Agency (FMPA), 8553 Commodity Circle, Orlando, Florida 32819 until **10:00 A.M. EST ON JULY 8, 2026**, when at that time Proposals will be opened publicly by a FMPA representative.

The proposal is for the Treasure Coast Energy Center (TCEC) HRSG Penetration Seals as more fully described in the Request for Proposals package.

RFP packages for this project may be obtained from FMPA at the above address, by telephone (407) 355-7767, via e-mail request to bidinfo@fmpa.com, via Internet download at www.fmpa.com, or via <https://myvendorlink.com>

No proposal may be altered, withdrawn, or resubmitted after the scheduled closing time for receipt of proposals, except as otherwise permitted in the RFP package. Proposals received after the day and time stated above will not be considered.

Proposals will be accepted for HRSG Penetration Seals from companies who have established, through demonstrated expertise and experience, that they are qualified to provide the services as specified.

The Florida Municipal Power Agency reserves the right to reject any and all proposals in total or in part and to waive defects in proposals.

Jacob Williams
General Manager and CEO
Florida Municipal Power Agency

FLORIDA MUNICIPAL POWER AGENCY
Request for Proposals for
TREASURE COAST ENERGY CENTER
HRSG PENETRATION SEALS

1. FMPA Description

Formed by Florida's municipal electric utilities in February 1978, the Florida Municipal Power Agency (FMPA or the Agency) is a non-profit, governmental, wholesale electric utilities company created to serve the needs of municipal electric utilities in Florida. All 33 municipal systems in the State are FMPA members who participate at varying levels in Agency activities.

2. Introduction - General Description of Services Sought

Florida Municipal Power Agency, (FMPA/Owner) invites proposals for HRSG Penetration Seals at Treasure Coast Energy Center, 4545 Energy Lane, Fort Pierce, FL 34981.

Based on the relevant previous experience, your company has been selected to receive this RFP and is invited to submit a proposal to supply the work described herein.

MATERIALS

All materials shall comply with engineering plans provided herein.

3. Overview

Upon selection of the awarded Contractor(s), FMPA will enter into a Master Agreement specifying terms and conditions. FMPA will issue a Purchase Order with project-specific technical specifications.

The submission of a proposal implies a general acceptance on the part of the bidder of the terms of this RFP, form of contract, and especially of those parts establishing warranties and guarantees.

4. Purchasing Services

Subsequent to the award, FMPA shall issue Purchase Orders to the Contractor(s) awarded the agreement pursuant to this Request for Proposal.

5. Indemnity

After notification of award, the successful bidder shall indemnify and save harmless FMPA from and against all claims, suits, actions, damages, or causes or action arising during the terms of the resulting agreement for any personal injury, loss of life, or damage to property sustained by reason of a result of the performance of the services or delivery of goods for which the resulting agreement was entered into, or its agents, employees, invitees, and all other persons, and for and against any orders, judgements, or decrees, which may be entered thereto, and from and against all costs, attorney's fees, expenses and liabilities incurred in or by reason the defense of any such claim, suit or action, and the investigation therefore.

Nothing in the award, resulting agreement, contract or Purchase Order shall be deemed to affect the rights, privileges and immunities of FMPA as set forth in Florida Statute 768.28.

The successful bidder(s) covenants and agrees to indemnify and save harmless FMPA and to defend from all cost, expenses, damages, attorney's fees, injury or loss to which FMPA may be subjected by any person, firm, corporation, or organization by reason of any wrongdoing, misconduct, want, or need of care or skill, negligence or default or breach of contract, guaranty, or warranty, by the successful bidder(s), his employees, his agents or assigns.

6. Notice to Proposers

Sealed response packages, either via Vendor Link (<https://myvendorlink.com>) or hardcopies in sealed envelopes, will be received until **10:00 A.M. EST ON JULY 8, 2026** ("Proposal Due Date") at the offices of the Florida Municipal Power Agency, 8553 Commodity Circle, Orlando, FL, 32819 at which time the bids will be opened and logged publicly in the 1st floor Conference Room.

Each proposer is required to submit a Proposer Information Form (included in this RFP package), other forms included in this package as appropriate, and all other information necessary to allow a complete evaluation of the proposal. Registered proposers will be notified through the issue of RFP addenda of any change in the Proposal Due Date or other necessary revision to information contained in this RFP. FMPA reserves the right to reject all proposals received after the Proposal Due Date and time.

Directions for Vendor Link submissions:

Register on Vendor Link at <https://myvendorlink.com> prior to submittal date. Download the RFP, and complete the required forms. Upload your submittal, required forms and attachments to Vendor Link. Emailed submissions will not be accepted.

Directions for Hardcopy submissions:

Hardcopy submissions shall be clearly marked on the outside of the sealed envelope "RFP# 2026-206a, TCEC HRSG Penetration Seals". Emailed submissions will not be accepted.

7. Duration of Offer

Proposals submitted in response to this RFP are irrevocable 120 days, unless withdrawn or modified as provided in Section 16 below. This period may be extended at FMPA's request only by written agreement of the proposer. The content of this RFP and the proposal of the successful proposer will be included by reference in any resulting contract.

8. Right of Rejection

This RFP is not an offer establishing any contractual rights. This solicitation is solely an invitation to submit proposals.

FMPA reserves the right to:

- Reject any and all proposals received in response to this RFP;
- Waive any requirement in this RFP;
- Waive any irregularities, regardless of the severity
- Not disclose the reason for rejecting a proposal;

- Not select the proposal with the lowest price; and
- Seek and reflect clarifications to proposals.
- Negotiate with the selected bidder in the event that the price exceeds available funds.
- If performance issues with Awarded Bidder; FMPA moves to next best evaluated bidder to complete work.
- Award to more than one bidder.
- Select the proposal that is in the best interest of FMPA

9. Proposal Contents

The submission of a proposal implies a general acceptance on the part of the bidder of the terms of this form of contract, and especially of those parts establishing warranties and guarantees

The proposal should include a description of the firm's capabilities and experience with providing the requested services, including a description of any special qualifications which are indicative of working familiarity with similar projects.

The following information must be included:

1. Demonstration of first-hand experience in providing similar services to those requested in this RFP;
2. Description of the resources available, including staffing levels, qualifications of key personnel who will be performing the work, equipment and capabilities; and locations of offices;
3. Proof of Insurance coverage;
4. Proof of licenses and certifications;
5. Safety protocols;
6. A schedule for the work, including the range of start dates to which your firm is prepared to commit to and anticipated completion dates.
7. General description of how projects will be staffed, managed, and completed, including project management and invoicing;
8. Identification of any work or services that may be provided by a subcontractor. Bidder shall provide information similar to that above concerning subcontractor's equipment, personnel, and qualifications; including a minimum of two (2) reference projects with similar scope of work. If after award of the RFP, the successful bidder(s) desire to utilize a subcontractor other than listed in the bid, the bidder must obtain approval of the subcontractor from FMPA. Denial of a subcontractor by FMPA will NOT absolve the bidder from getting the work done for the contracted price;

9. List of at least three (3) references for which similar projects were conducted, including name, company, title, phone number and email address, and a brief description of the project including the start and end dates;
10. List any past HRSG penetration seals projects for which your firm conducted work for FMPA, as well as others. Provide a brief description of the project including the start and end dates and point of contact.
11. The name and contact information of the person in Bidder's firm who would be the official contact person for any contractual relationship.
12. Fully executed forms as provided in Appendix C - Bid Forms.

10. RFP Schedule

FMPA's timetable for this RFP process is shown below. Note that the dates shown are only estimates and may be modified at any time by FMPA.

Public Notice/Distribution of RFP	June 4, 2026
Intent to Bid form and Questions Deadline	June 19, 2026
Sealed Proposals Due Date	July 8, 2026
Notice of Award <i>(Estimated date)</i> <i>(Pending budget approval)</i>	August 7, 2026

11. Site Visit and Walk-down

Site visits will not be held for this solicitation. Individual bidder visits are not permitted.

12. Evaluation

The proposals will be evaluated based on information provided by each proposer by the Proposal Due Date. No additional data will be considered after the Proposal Due Date, except for clarifications requested by FMPA. FMPA will evaluate the proposals in terms of cost and other quantitative and non-quantitative factors.

Selection and rejection of proposals and notification of proposers at all stages will remain entirely with FMPA's discretion. FMPA intends to notify proposers not selected under this solicitation within a reasonable amount of time.

The evaluation criteria will include a variety of considerations, which may include but not limited to:

- a. Experience with similar projects
- b. Past Performance
- c. Availability and lead time
- d. Adherence to specifications
- e. Pricing

Proposals must include sufficient information supporting pricing to permit FMPA to evaluate all proposals, which may include different pricing elements, different products, and different methods and assumptions, on an equal basis. If sufficient information supporting pricing is not provided, FMPA may have to make pricing assumptions in evaluating proposals to achieve, in FMPA's judgment, an equal evaluation of all proposals. Those pricing assumptions made by FMPA are at FMPA's discretion and based upon FMPA's subjective evaluations of the proposals received, and may or may not be shared with proposers.

Any proposer that proposes an alternative to any FMPA specified technical or business terms, or specified-products, must clearly identify such alternatives and provide supporting information for why the proposer believes its alternative(s) are superior to FMPA's specifications. FMPA is not obliged to accept any proposer's alternatives.

13. Performance Bond/Surety

Neither a bid nor a performance bond or surety is required pursuant to this RFP.

14. Budgetary Constraints

The Florida Municipal Power Agency reserve the right to reduce or increase the quantity, retract any item from the bid, or upon notification, terminate entire agreement without any obligations or penalty based upon availability of funds.

15. Interpretations and Addenda

All questions regarding interpretation of this RFP, technical or otherwise, must be submitted in writing to the following:

By E Mail: *sharon.samuels@fmpa.com*

By Fax: Ms. Sharon Samuels
(407) 355 - 5796

By Mail or Courier: Ms. Sharon Samuels
Florida Municipal Power Agency
8553 Commodity Circle
Orlando, Florida 32819

Only written responses provided by FMPA to proposers' questions will be considered official. A verbal response by FMPA will not be considered an official response. Written responses to questions and requests for interpretations will be provided to all potential proposers. Copies of all addenda issued in connection with this RFP may be sent to all potential proposers.

Questions and Answers

Questions will be accepted through the deadline noted in the schedule from potential bidders who notify us that they will be a bidder. We reserve the right not to answer other questions. Questions and answers will be distributed to all bidders.

Upon receipt of this Request for Proposals ("RFP"), potential Contractors shall immediately cease direct contact with individual FMPA or Generating Facility employees regarding the subject matter of this RFP.

Notwithstanding the previous sentence, If FMPA has questions about a particular proposal that, in the judgment of FMPA, would be appropriate to ask a proposer to clarify, explain, or otherwise provide supporting information for its proposal, FMPA reserves the right to pose such questions to proposers. In the event FMPA does this, it will provide a notice to all proposers of the proposers that received questions from FMPA, and the general nature of the questions, but FMPA will not provide information that it believes will give an proposer any competitive advantage over another. FMPA will evaluate answers received from proposers, but will not accept modifications to proposals after the Proposal Due Date.

16. Errors, Modifications or Withdrawal of Proposal

Each proposer should carefully review the information provided in the RFP prior to submitting a response. The RFP contains instructions which must be followed by all proposers. Modifications to proposals already received by FMPA will only be accepted prior to the Proposal Due Date. Proposals may be withdrawn by giving written notice to FMPA prior to the Proposal Due Date.

17. Proprietary Confidential Business Information

All proposals shall become property of FMPA. FMPA will not disclose to third parties any information that is clearly labeled "Proprietary Confidential Business Information" in a proposal unless, in the opinion of counsel for FMPA, such disclosures are required by law or by order of the court or government agency having appropriate jurisdiction. Each page of Proprietary Confidential Business Information must be clearly labeled "PROPRIETARY CONFIDENTIAL BUSINESS INFORMATION" at the top of the page. FMPA reserves the right to disclose information contained in proposals to its consultant(s) for the sole purpose of assisting in the proposal evaluation process. FMPA will require the consultant(s) to maintain the confidentiality of the document.

18. Default and Damages Provisions

FMPA will negotiate standard terms and conditions for default and damages with the awarded Contractor(s). All proposers are requested to include proposed default and damages provisions in their proposals.

19. Public Entity Crimes Statement

Pursuant to Section 287.133(2)(a), FLORIDA STATUTES, all proposers should be aware of the following:

"A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list."

20. Collusion

By offering a submission pursuant to this RFP, the proposer certifies the proposer has not divulged, discussed, or compared his proposal with other proposers and has not colluded with any other proposer or parties to this proposal whatsoever. Also, the proposer certifies, and in the case of a joint proposal, each party thereto certifies, as to his own organization, that in connection with this proposal:

1. Any prices and/or cost data submitted have been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices and or cost data, with any other proposer or with any competitor
2. Any prices and/or cost data quoted for this proposal have not knowingly been disclosed by the proposer and will not knowingly be disclosed by the proposer prior to the scheduled opening directly or indirectly to any other proposer or to any competitor

3. No attempt has been made or will be made by the proposer to induce any other person or firm to submit or not to submit a proposal for the purpose of restricting competition
4. The only person or persons interested in this proposal, principal or principals is/are named therein and that no person other than therein mentioned has any interest in this proposal or in the contract to be entered into and
5. No person or agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee excepting bona fide employees or established commercial agencies maintained by the Proposer for the purpose of doing business.

21. Drug Free Workplace

A Drug-Free Workplace Statement must be completed, signed, and returned prior to award of proposal. This form will be used whenever two or more proposals that are identical with respect to price, quality, delivery, and service are received; a proposal received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process.

22. Subcontracted Services

Proposal should indicate which, if any, of the services to be provided would be subcontracted by the proposer to independent contractors. If work is intended to be subcontracted, BID SUBMITTAL MUST BE ACCOMPANIED BY BACKGROUND MATERIALS AND REFERENCES FOR PROPOSED SUBCONTRACTOR(S) - NO EXCEPTIONS. In addition, Contractor(s) must notify FMPA any time work will include subcontracted services. FMPA maintains the right to reject the proposed subcontractor for specific project work.

23. Definitions

The words and terms defined in this document shall have the following meanings as used throughout.

ACCEPTANCE – Written acknowledgement by the FMPA and authorized representative that the Work has been completed in a manner consistent with the terms, conditions and specifications of a Contract or Purchase Order.

CONTRACTOR – The business entity (and its affiliates and authorized assigns), which has been awarded by FMPA or executed a contract with FMPA shall include any and all subcontractors, affiliates and authorized assigns that provide or perform any or all of the Work. This entity may also be referred to as the Contractor, successful bidder, or successful proposer.

PARTICIPANT CONTRACT – The aggregation of all documents that constitute the binding agreement between the Contractor and FMPA. The Participant Contract may include but shall not be limited to The Award or Agreements that result from this solicitation, Blanket Orders, Purchase Orders, Order Releases, and all attachment agreements.

PURCHASE ORDER (PO) – A Work authorization, issued by FMPA or an FMPA Member, which is issued subject to the terms and conditions of the Award or Agreement. The term “Purchase Order” shall also include “blanket order releases” and any other ordering methodology agreed to in writing by FMPA and Contractor.

WORK – Labor, materials, supplies, equipment, goods, and services including any related documentation, software, reports, testing, transport, administration, management, tools and any and all other requirements to be furnished or performed by Contractor under this Agreement and/or a Participant Contract together with all other additional necessities that are not specifically recited in this Agreement or Participant Contract but which could be reasonably inferred as necessary to complete all obligations and fully satisfy the intent of this Agreement and/or a Participant Contract.

24. Entire Contract

These General Terms and Conditions, the Master Agreement between FMPA and the selected Contractor(s), and the Purchase Order (PO) for which they are being provided (including attachments thereto) constitute the entire agreement between FMPA and the Contractor.

25. Acceptance of Services and Work Product

The Product or Services shall be subject to FMPA and authorized staff’s inspection at any time. FMPA may reject Product/Services within a reasonable time after completed, if such Product/Services do not comply with the requirements of the Purchase Order or the specifications for the Product/Service. The making or failure to make any inspection of, or payment for or acceptance of Product/Service shall in no way impair FMPA’s right to reject or revoke its acceptance of nonconforming Product/Service, or to avail itself of any other remedies to which FMPA may be entitled, notwithstanding FMPA’s knowledge of the nonconformity, its substantiality or ease of discovery.

Final acceptance of the Services and Work Product for purposes of the Purchase Order shall be the date upon which FMPA confirms that all Services and Work Product have been completed in accordance with the terms of the Purchase Order (“Final Acceptance”).

26. Site Access Conditions

FMPA and authorized staff shall provide Contractor access to the Facility as necessary to perform the Work or Services. Access shall be subject to Contractor’s obligation to comply with the following conditions:

1. Contractor shall confine its activities to only those portions of the Facility necessary for performance of the Services.
2. Contractor shall take all safety measures reasonably necessary to protect FMPA and FMPA property, its permittees and licensees and the property of each, from injury or damage caused by or resulting from the performance of Services. Contractor shall follow any and all safety and security procedures established by FMPA for the Facility. In the event of a security emergency, FMPA and its Members may deny Contractor access to a Facility or request that Contractor leave the Facility.

3. Contractor shall maintain all required insurance coverage's set forth in Section 27 at all times during the term of the Purchase Order.
4. Contractor's performance of Services shall not interfere with the use, occupancy or enjoyment of the Facility by FMPA and its Members.
5. No work or activity performed as part of the Services shall cause FMPA and its Members to be in violation of any requirement of law nor shall Contractor or any agent, employee or representative violate any federal, state or local laws while performing Services.
6. All Services shall be performed in a manner that will not damage the Facility and Contractor shall promptly notify FMPA and shall be responsible for the cost of repairing any such damage should it occur.
7. FMPA rules on maintaining a drug-free workplace shall be strictly followed and enforced by Contractor with respect to all of its employees or subcontractors and none of Contractor's employees, subcontractors, agents or representatives shall be permitted to use non-prescription drugs or alcohol at any FMPA and its Member Facility.

27. Required Insurance

The Contractor shall acquire and maintain at all times during the performance of Services the insurance coverage set forth below. Contractor shall furnish FMPA a copy of the insurance certificate. Additional information on insurance requirements are noted in Appendix B, page 5.

The liability limits shall not be less than:

Workers' Compensation Statutory

Commercial General Liability \$2,000,000

Automobile Liability \$1,000,000

Product Liability as set forth in the Purchase Order, if any;

Pollution Insurance as set forth in the Purchase Order, if any;

28. Termination for Default

Any failure by Contractor to perform or comply with the terms and conditions of the Purchase Order which continues for ten (10) calendar days after written notice from FMPA to Contractor demanding that such failure to perform be cured, shall be deemed an event of default by Contractor. Upon the occurrence of any such event of default, FMPA may terminate the Purchase Order and pursue any remedies available at law or in equity.

29. Termination for Convenience

FMPA shall have the right in its sole discretion to terminate by written notice, in whole or in part, the Purchase Order for its convenience. FMPA shall pay Contractor for any Services performed under the Specifications of the Bid Package prior to the termination date.

30. Termination for Cause

The performance of work on a Purchase Order issued under this Award agreement may be terminated for cause by a Participating Member (s) in accordance with this clause in whole, or from time to time, in part, whenever the authorized Member representative, in his or her sole judgment, determines that the Awarded Bidder is not meeting the minimum performance level required. If the Award agreement is terminated under this provision, the Member shall not be required to purchase any remaining items or continue any work. Additionally, the terminated Bidder shall not be eligible for consideration for any replacement Award agreement.

FMPA shall have the right in its sole discretion to terminate by written notice, in whole or in part, the Purchase Order for performance issues. FMPA reserves the right to terminate the Contract with that Contractor(s) and re-advertise or select a second Contractor(s) from the original solicitation.

31. Use of Ideas

All materials submitted in response to the RFP become the property of FMPA and will be returned only at the option of FMPA. Except as otherwise prohibited by law, FMPA has the right to use any and all ideas presented in response to this RFP. Selection or rejection of a proposal does not affect this right.

32. Warranties

Reference Warranty section of Appendix B, page 3.

33. Hazardous Materials of Contractor

Any Hazardous Materials used by Contractor in the performance of the Services shall be packaged, shipped, handled, labeled and disposed of by Contractor in a manner that complies with all federal, state and local laws or regulations applicable to Hazardous Materials. No Hazardous Materials shall be stored by Contractor at the FMPA and its Member's Facility before, during or after the performance of Services hereunder. Contractor shall, at its expense, remove, transport and dispose of all Hazardous Materials (i) brought by Contractor to the Facility or (ii) disturbed by Contractor's performance of Services or created by Contractor's use, handling or combination of non-hazardous materials brought by Contractor to the Facility during the performance of Services. For purposes of the Purchase Order, the term "Hazardous Materials" shall mean any substance which by law requires special handling, containment or disposal, including without limitation "hazardous substances" as defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 USC Sections 9601, et seq.), the Hazardous Materials Transportation Act, as amended (49 USC Sections 5101, et seq.), "hazardous wastes" as defined in the Resource Conservation and Recovery Act, as amended (42 USC Sections 9601, et seq.), "toxic substances" as defined in the Toxic Substance Control Act as amended (15 USC Section 2601 et seq.), as amended and in the regulations adopted, published, and promulgated pursuant thereto. Contractor shall be responsible for obtaining and maintaining any licenses, permits, and/or other authorizations of any kind required for the performance of the Services. Contractor shall pay all costs of such licenses, permits and authorizations and all costs and expenses incurred in obtaining and maintaining them. The Contractor shall comply with all federal, state and local laws, and rules and regulations that are applicable to the performance of the services requested by FMPA.

34. Safety and Protection

Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with work under this RFP. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. All persons on the site who may be affected by the project work;
2. All Work and materials and equipment to be incorporated therein, whether in storage on or off of the project site. Any off-site storage logistics such as sourcing/allocation, safety, security and transfer/delivery, etc. will be the sole responsibility of the contractor.
3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of the project.

35. Control of Work and Subcontractors

Contractor shall be solely responsible for all construction means, methods, techniques, sequences, procedures, and safety programs in connection with the performance of the Work. In addition, Contractor shall be solely responsible for the engagement and management of any subcontractors used to perform any portion of the Work.

36. Domestic Preference

As appropriate and to the extent consistent with law, Contractor should, to the greatest extent practicable, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products).

37. Public Records

Supplier acknowledges that FMPA is subject to Florida's Government in the Sunshine Law, including, without limitation, Chapter 119, Florida Statutes. As such, any documents submitted in response to this RFP may be public records subject to public disclosure. Please refer to Section 17, above, for confidential proprietary business information or trade secrets contained in such records.

38. Change Orders

Contractor is **not authorized** to act on any Change Order until they receive a written revision to the Purchase Order for the added scope and price.

FMPA has no obligation to pay for any goods or services outside of the authorized Purchase Order.

APPENDIX A
SCOPE OF WORK

Treasure Coast Energy Center – HRSG Penetration Seals

1 REVISION HISTORY

6/2/2026

REV 5 – Issued for Procurement

2 GENERAL SCOPE OF WORK

2.1 INTRODUCTION

Treasure Coast Energy Center (TCEC) is a 1x1, gas fired, combined cycle power plant located in Fort Pierce, Florida with a General Electric (GE) 7FA Gas Turbine and Vogt Heat Recovery Steam Generator (HRSG). FMPA is soliciting bids to replace HRSG penetration seals as described below. These tasks are essential for maintaining and ensuring the proper functioning of the Treasure Coast Energy Center HRSG, ensuring safety and efficiency of processes.

2.2 SUMMARY:

FMPA is requesting a turnkey, fixed price proposal to perform this work during the Fall 2026 outage. Efforts to support this project will entail executing the following tasks:

1. Engineer and supply a full set of fabric type, piping penetration seals including both top and bottom, vertical and horizontal seals, and required hardware, for HRSG module 1.
 - a. Reference attached appendices for list of FMPA supplied drawings and documents to determine penetration seal quantities, sizing, and design requirements.
2. Remove the existing penetration seals and clean, prep, and inspect the underlying pipe and HRSG casing.
3. Install new penetration seals per manufacturer instructions including any welding or forming.
4. Supplier shall provide optional pricing for manufacturer’s onsite technical field assistance (TFA) services.
5. Supplier shall provide break-out pricing for module 1 separately as part of the base bid. Individual pricing for modules 2, 3, 4, & 5 shall be offered as options. Supplier may provide cost breaks, if available, based on potentially bundling multiple modules together under this project.
6. Supply project deliverables including instruction & maintenance manuals, all drawings including as-builts, and red lines, technical datasheets, and welding procedures.

Supplier shall provide a proposal for all stated work. Supplier shall conform to all applicable codes including the Florida Building Code.

2.3 DEFINITIONS:

1. FMPA is defined as Florida Municipal Power Agency
2. TCEC is defined as Treasure Coast Energy Center located at 4545 Energy Ln, Fort Pierce, FL 34981
3. SUPPLIER is defined as Contractor/Vendor responsible for completing the work in this scope
4. HRSG is defined as the Vogt heat recovery steam generator.

3 WORK SCOPE AND REQUIREMENTS

The following is a detailed description of the deliverables and work to be performed by the Supplier for this project. As part of base bid, Supplier shall provide estimated material lead time and anticipated project schedule.

3.1 SUPPLY NEW PENETRATION SEALS

1. Supplier is responsible for all engineering to determine necessary quantities, sizing, and materials of construction required to replace existing top and bottom, vertical and horizontal piping penetration seals, including required hardware, with fabric type seals for HRSG module 1. **Hanger rod penetration seals are not included in this scope of work.**
2. All materials used shall be suitable for high temperature application, UV and chemical resistant, and shall contain no Asbestos.
3. It is expected that new fabric type seals shall be woven and/or vulcanized to avoid need for cutting and re-welding HRSG piping.
4. Supplier shall provide 316 stainless steel clamping bands, fastening hardware, and all attachment components required for installation of the new fabric-type penetration seals. The clamping system shall securely retain the seal belt/fabric while accommodating piping thermal expansion and contraction. FMPA supplied drawings and documents are provided in the attached appendices for use by Supplier.
5. Prior to finalizing order and fabrication with manufacturer, Supplier shall provide Bill of Materials and drawings to FMPA for review and approval. See section 3.5.1. for additional detail.

3.2 DEMO EXISTING PENETRATION SEALS

1. It is the Supplier's responsibility to remove the existing penetration seals and all associated hardware from the piping and casing.
2. Material will be removed in a manner that causes the least damage to the underlying pipe. Any nick, cut, or strike of the underlying pipe must be brought to the attention of FMPA immediately for inspection. If pipe requires repairs, it is the Supplier's responsibility.
3. All permitting including LOTO requirements and Hot Work will be provided by FMPA. Fire protection including fire watches shall be Supplier's responsibility.

3.3 INSTALL NEW PENETRATION SEALS

1. Supplier shall provide all skilled and unskilled labor necessary to install new penetration seals per manufacturer instructions.
2. Supplier shall provide onsite manufacturer's TFA during the installation process to instruct Supplier personnel and witness and approve field installation to avoid unnecessary damage or re-work.
3. All permitting including LOTO requirements and Hot Work will be provided by FMPA. Fire protection including fire watches shall be Supplier's responsibility.

3.4 DELIVERABLES

1. Supplier shall provide the following upon project award:
 - a. Manufacturer drawings

- b. Manufacturer datasheets
 - c. Installation instructions
 - d. Bill of material (BOM) including all seal quantities, sizing, and design details
 - e. Welding procedures and connection details
 - f. Anticipated schedule and staffing plan including potential for nightshift work
 - g. Supplier project manager contact
2. Supplier shall provide the following upon completion of work:
 - a. Maintenance & Inspection manual(s), if applicable
 - b. Final “as-built” drawings updating “where used” information
 - c. Lessons Learned, as applicable

3.5 PLANNING

3.5.1 Design Review

Prior to the purchase of equipment and beginning of fabrication, FMPA will review and approve equipment selection and drawings. FMPA will have seven (7) business days to review the provided documentation. Supplier will allow for at least one (1) round of comment and adjustment prior to commencing fabrication and purchase of major components.

3.5.2 Project Management

The Supplier will designate a project manager for this work. The project manager will be the point of contact for FMPA. FMPA will designate a point of contact as well. Any requests for information, design changes, and change order requests shall flow through the respective representatives.

3.5.3 Schedule

The Supplier will provide FMPA with a project schedule denoting major milestones and hold points. As the project progresses, Supplier will update the schedule and provide the updates to FMPA.

3.5.4 Update Meetings

Following award, there will be monthly progress meetings. These meetings can be conducted via phone or by Microsoft Teams. These meetings will update on progress, recent activities, upcoming milestones or potential roadblocks. These meetings will transition to bi-weekly 90 days prior to and, weekly 30 days prior to the start of the outage (schedule outlined below).

3.5.5 Change Orders

All change orders must be submitted in writing to the FMPA point of contact. Change orders must be submitted in a timely manner and prior to the commencement of changed work. Change orders must be authorized in writing by the FMPA point of contact to be considered valid.

3.6 DOCUMENTATION

3.6.1 Design Drawings

The Supplier will provide a full set of drawings for all new penetration seal sizes used. These will include initial design drawings as well as red lines, as needed, from installation. These drawings will be complete, dimensioned, and fully released to FMPA without restriction.

3.6.2 Equipment Documentation

The Supplier will provide a full set of documentation (technical details, maintenance manuals, cut sheets, specifications, etc.) for all equipment supplied as part of this work.

3.6.3 Method of Delivery

All drawings, manuals, and documentation will be provided via two hard copies and one digital. Hard copy drawings will be supplied in 34" x 22" format, secured together in a binder. Manuals and other documents will be provided in bound and labeled volumes. Digital copies of all documentation will be provided via FTP site. Access to the FTP site will not be terminated until FMPA confirms receipt of the digital documentation.

3.7 DIVISION OF RESPONSIBILITIES

3.7.1 Access

FMPA will provide any scaffolding requirements to complete the work scope as described. Supplier must coordinate with TCEC site personnel to identify all scaffolding required at least 30 days prior to start of Fall outage. Supplier will be responsible for providing their own manlift(s) or ladders (non-scaffold) as necessary.

3.7.2 Insulation

FMPA will provide insulation services to complete the work scope as described. Supplier must coordinate with TCEC site personnel to identify all insulation removal/installation required at least 30 days prior to start of Fall outage.

3.7.3 Equipment Protection

1. Supplier is responsible for ensuring that no material, debris, welding spatter or slag, grinding grit or dust, or any other material is allowed to enter openings within the HRSG casing or piping (*open piping not expected for this project*).
 - a. Supplier will take care to prevent materials including grinding debris, spent grinding wheels, etc. from entering the HRSG casing during demolition and field preparation. Any and all debris will be collected and/or vacuumed up prior to installing new penetration seals.
 - b. After the completion of the work, the area will be vacuumed clean. Supplier and a designated FMPA representative will inspect for final acceptance. Supplier is responsible for any material that may be introduced into the HRSG.
2. The Supplier is responsible for protecting the integrity of the site where they are working. Any damage to equipment, piping, valving, concrete, roads, etc. will be the Supplier's responsibility to repair.
3. Prior to the setting of any large mobile equipment such as cranes, Supplier must consult the FMPA representative to ensure that there is no underground equipment that might be damaged by the weight of the crane.

3.7.4 Site Facilities

Supplier will be responsible for providing their own tooling and consumables. Space will be provided for a tool trailer and break area. Supplier will be responsible for providing their own hand-washing and restroom facilities. Supplier will be responsible for providing their own internet access on site, if required.

3.7.5 Material Handling

Supplier will be responsible for any material handling on site. This includes accepting deliveries of materials, moving material around site, and storage of material. Space will be provided for laydown in as close proximity to job site as is practical. Supplier is responsible for providing their own forklifts, telehandlers, and cranes as required on site. Deliveries will be scheduled during normal working hours when a Supplier representative capable of unloading material is on site. Any Supplier, or sub-contractor, personnel operating forklifts, telehandlers, cranes, manlifts or any other heavy equipment must be trained and certified for its use. Certifications shall be presented to FMPA upon request.

3.7.6 Power

FMPA will provide power on site for welding machines, trailers, and tooling. Supplier will be responsible for power distribution panels and plugs to interface with TCEC welding receptacles. Supplier will be responsible for providing compressed air for air hoists, tuggers, sandblasting, or painting (if needed).

3.7.7 Fuel

Supplier is responsible for fueling their mobile equipment. Plans to store fuel onsite must be reviewed and approved by FMPA. Above ground storage tanks shall be of steel, double wall construction to provide secondary containment in the event of leaks and include overfill protection during re-filling process.

3.7.8 Water

Supplier will be responsible for their own potable water. Non-potable service water will be provided by FMPA.

3.7.9 Site Equipment

Supplier will not be able to make use of FMPA equipment on site and shall coordinate all equipment necessary to successfully complete the work. This includes manlifts, cranes, forklifts, telehandlers and other equipment.

3.7.10 Waste Disposal

Supplier will be responsible for the disposal of all waste and scrap materials generated by this work. Supplier is responsible for moving the waste/scrap from point generated and placing it in FMPA supplied dumpsters.

3.7.11 Safety

Supplier is responsible for ensuring the compliance of their employees with all safety requirements be they as directed by FMPA, the Supplier's own safety program, and OSHA/industry best practices. Supplier is always liable for the safety of their own employees while on site. Supplier shall include a copy of their current safety program/manual.

1. Supplier is responsible for providing their work crew with PPE or other safety equipment such as harnesses or hazardous atmosphere monitors that may be required for this work.
2. Supplier is responsible for any confined space hole watches that are required for this work.

3. Supplier is responsible for providing their work crew with the appropriate training for the work such as confined space entry, fall protection, respirators, etc. as required. Supplier and any sub-contractors must meet or exceed minimum OSHA requirements.

3.7.12 Fire Watch

Supplier is responsible for any fire watch that may be required as part of this work as well as for providing fire extinguishers for fire watches and areas where welding or other hot work is being performed.

3.7.13 Existing Drawings and Dimensions

FMPA shall provide the Supplier, in a timely manner, with all relevant equipment drawings currently in its possession. Supplier is responsible for all engineering, design, sizing and dimensions to ensure that the new equipment is suitable for the application, meets existing design parameters, mates cleanly to the existing equipment, and any modifications required to ensure the clean fit of equipment is wholly their responsibility.

3.7.14 LOTO

FMPA personnel will be responsible for tagging out and, making safe, all associated systems to be worked on. It is the Supplier's responsibility to abide by site safety requirements and OSHA regulations.

3.7.15 Codes

In the execution of this work, Supplier will conform to all industry standard codes and best practices. If there is a question about the applicability of a code, Supplier will contact the designated FMPA representative for confirmation. Codes shall include but not be limited to the following:

- ASME Boiler Code
- ASME B31.1 Power Piping
- ASME B31.3 Process Piping
- NFPA 85
- API
- API 686
- OSHA
- All State and Local Building and Environmental Codes

4 WARRANTY

The Supplier shall provide five (5) year warranty on all parts and workmanship. Related pricing shall be broken out separately within Supplier proposal.

5 COATING

No coating work is expected. However, touchup paint will be Supplier responsibility, as needed, as it relates to the scope of work defined herein.

6 PRICING

Pricing for this work will be provided as follows:

6.1 MODULES 1

Supplier will provide a lump sum, all-inclusive price for the replacement of both top and bottom, vertical and horizontal seals, including required hardware for HRSG module 1. Bidders shall provide cost breakdown to include design, fabrication, & supply of new seals and related hardware, demolition and disposal of the existing seals, and installation of new seals as outlined in this specification.

6.2 MODULES 2, 3, 4, AND 5

Supplier will provide individual, OPTIONAL, all-inclusive pricing for the replacement of both top and bottom, vertical and horizontal penetration seals for HRSG modules 2, 3, 4, & 5. Optional pricing shall also include design, fabrication, & supply of new seals and related hardware, demolition and disposal of the existing seals, and installation of new seals as outlined in this specification.

This price will be independent of any other optional work and will assume the base bid work is awarded.

6.3 COST SAVING ALTERNATIVES

FMPA will consider any potential cost-saving alternatives including price breaks if additional modules are included in project scope. A base proposal for module 1 **ONLY** must be submitted for alternatives and options to be considered.

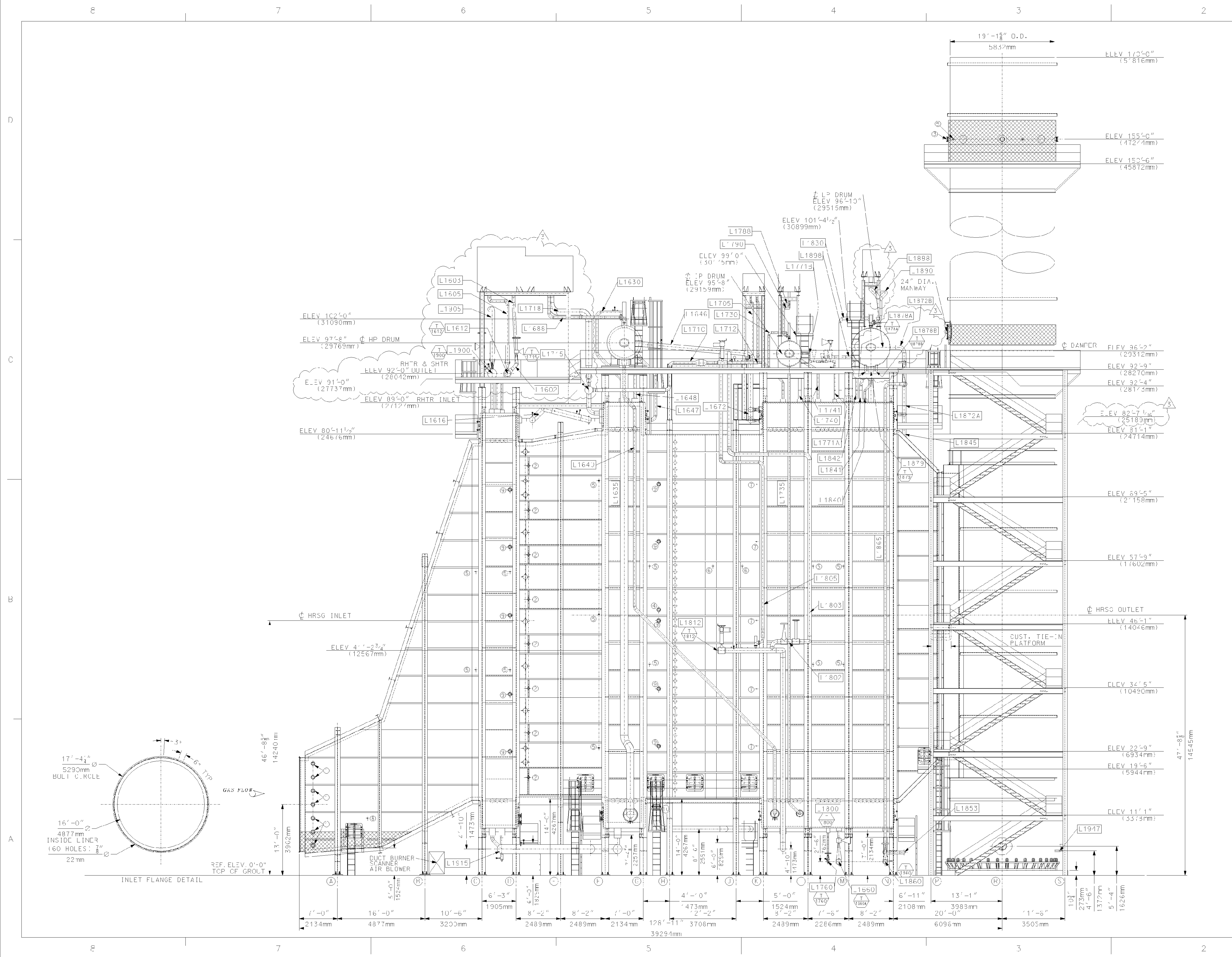
6.4 WEATHER PROVISIONS

TCEC is located in central Florida and subject to the prevailing local weather conditions. As such, Supplier will be responsible for staying appraised of the local weather conditions and allow for ten percent (10%) inclement weather days in their schedule.

7 SCHEDULE

The Treasure Coast Energy Center, Fall 2026 outage is currently scheduled from November 6th, 2026, through November 20th, 2026. Supplier access to the work area is anticipated from November 9th to November 17th. All work must be completed by 5:00pm on November 17th and all Supplier personnel must be off the LOTO at that time. Supplier may begin staging equipment and materials on site ten (10) days prior to the start of the outage.

DRAWINGS



- CONNECTION LEGEND
- ① 4"-150# TEST CONNECTION
 - ② TURNER ELEMENT
 - ③ 6"-150# EPA TEST PORTS
 - ④ 4"-150# CEMS CONNECTION
 - ⑤ 2" - THRD'D COUPLING THERMOWELL CONNECTION
 - ⑥ 1" - THRD'D PRESSURE DIFFERENTIAL TAPS
 - ⑦ 2" - THRD'D VELOCITY PORTS
 - ⑧ 1" - PRESSURE SENSOR
 - ⑨ 4"-150# VELOCITY PORTS
 - ⑩ 2"-150# HOT GAS TAP

- NOTES:
1. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING.
 2. ALL PIPING AND VALVES SHOWN IN PHANTOM LINE ARE NOT IN VPI SCOPE.
 3. INLET DUCT PERSONNEL PROTECTION BY VPI, OUTLET DUCT AND STACK EXTERNAL INSULATION FROM DAMPER TO GRADE AND UPPER STACK PERSONNEL PROTECTION BY OTHERS.
 4. SILENCERS, SAFETY VALVE, START-UP PIPING AND SILENCER RACKS SHOWN AT A LATER DATE.

REFERENCE DRAWINGS:
 017424-GAND-002 - GENERAL ARRANGEMENT LEFT SIDE ELEV.
 017424-GAND-003 - GENERAL ARRANGEMENT PLAN ELEV.

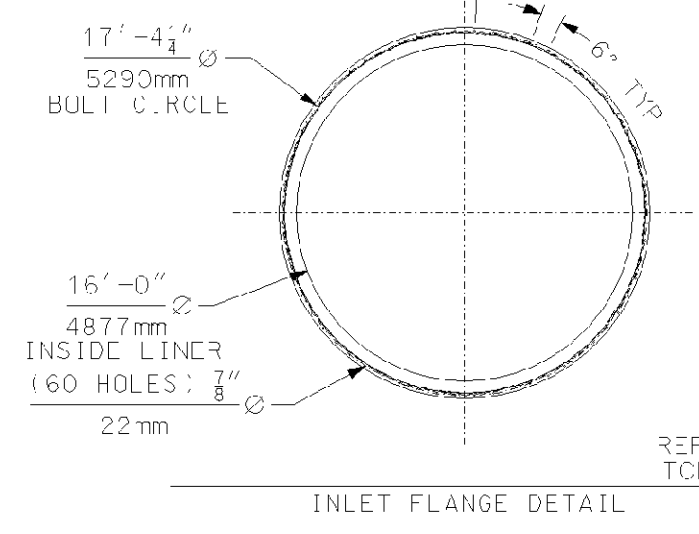
Rev.	Description	Date	Drawn	Chkd.	Appr.
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4					
3	GENERAL REVISION	09/08/06	MAS	MB	EP
2	GENERAL REVISION	07/11/06	MAS	MB	EP
1	REVISE PER CUSTOMER COMMENTS	03/31/06	SP	MB	MS EP
0	First Issue	03/03/06	SP	MB	MS EP

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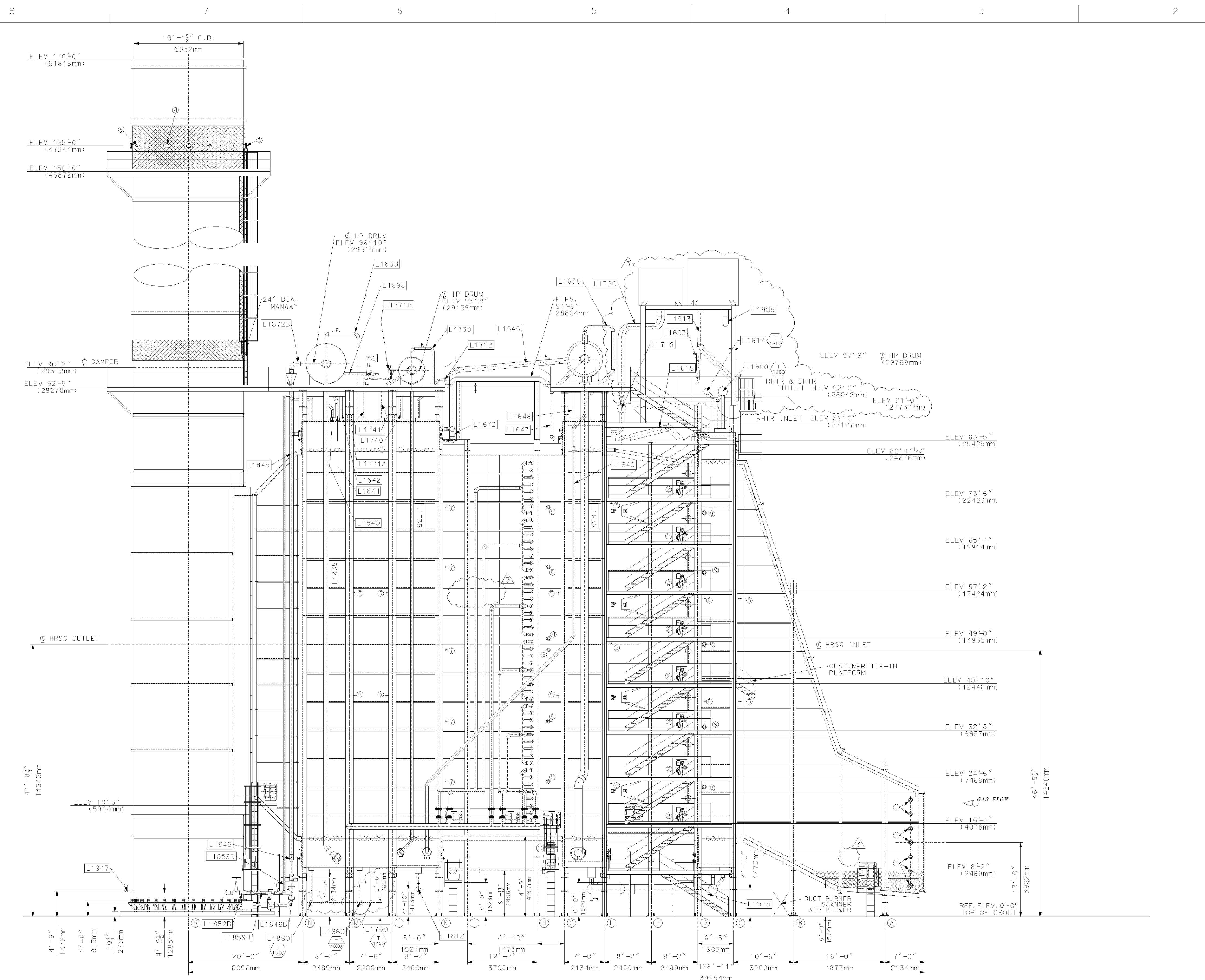
Title
 H.R.S.G. GENERAL ARRANGEMENT
 RIGHT SIDE ELEVATION

Vogt Power International
 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 WWW.VogtPower.com

Internal Drawing Status: FCR RECCRD
 Size: D
 Drawing No.: 017424-GAND-001
 Rev.: 03



NO EXCEPTIONS NOTED
 Release for manufacture



- CONNECTION LEGEND
- ① 4"-150" TEST CONNECTION
 - ② BURNER ELEMENT
 - ③ 6"-150# EPA TEST POINTS
 - ④ 4"-150# CEMS CONNECTION
 - ⑤ 2" - THRD'D COUPLING THERMOWELL CONNECTION
 - ⑥ 1" - THRD'D PRESSURE DIFFERENTIAL TAPS
 - ⑦ 2" - THRD'D VELOCITY PORTS
 - ⑧ 1" - PRESSURE SENSOR
 - ⑨ 4"-150# VELOCITY PORTS
 - ⑩ 2"-150# HOT GAS TAP

- NOTES:
1. ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING.
 2. ALL PIPING AND VALVES SHOWN IN PHANTOM LINE ARE NOT IN VPI SCOPE.
 3. INLET DUCT PERSONNEL PROTECTION BY VPI, OUTLET DUCT AND STACK EXTERNAL INSULATION FROM DAMPER TO GRADE AND UPPER STACK PERSONNEL PROTECTION BY OTHERS.
 4. SILENCERS, SAFETY VALVE, START-UP PIPING AND SILENCER RACKS SHOWN AT A LATER DATE.

REFERENCE DRAWINGS:
 017424-GAND-001 - GENERAL ARRANGEMENT RIGHT SIDE ELEV.
 017424-GAND-003 - GENERAL ARRANGEMENT PLAN ELEV.

Rev.	Description	Date	Drawn	Chk'd	Appr.
5					
4	GENERAL REVISION	09/08/06	MAS	MS	DP
3	GENERAL REVISION	07/11/06	MAS	MD	DP
2	GENERAL REVISION	07/11/06	MAS	MD	DP
1	REVISE PER CUSTOMER COMMENTS	03/31/06	SP	MS	DP
0	First Issue	03/03/06	SP	MR	MS

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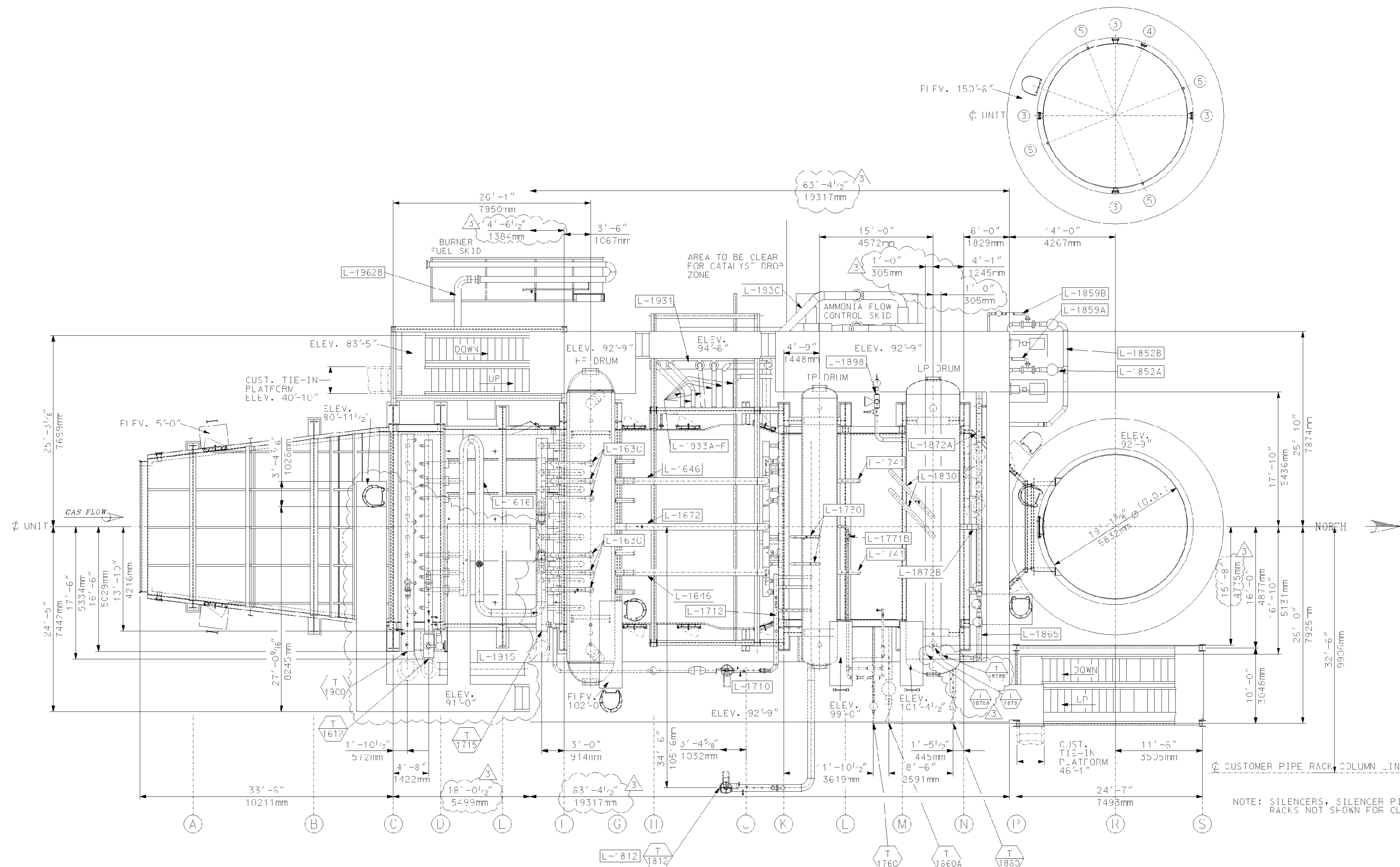
Title: H.R.S.G. GENERAL ARRANGEMENT LEFT SIDE ELEVATION

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 Size: D
 Drawing No.: 017424-GAND-002
 Rev.: 03

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- CONNECTION LEGEND
- ① 4"-150# TEST CONNECTION
 - ② BURNER ELEMENT
 - ③ 6"-150# EPA TEST PORTS
 - ④ 4"-150# CEMS CONNECTION
 - ⑤ 2" - THRD'D COUPLING THERMOWELL CONNECTION
 - ⑥ 1" - THRD'D PRESSURE DIFFERENTIAL TAPS
 - ⑦ 2" - THRD'D VELOCITY PORTS
 - ⑧ 1" - PRESSURE SENSOR
 - ⑨ 4"-150# VELOCITY PORTS
 - ⑩ 12"-150# HOT GAS TAP

- NOTES:
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 2. ALL PIPING AND VALVES SHOWN IN PHANTOM LINE ARE NOT IN VPI SCOPE.
 3. INLET DUCT PERSONNEL PROTECTION BY VPI, OUTLET DUCT AND STACK EXTERNAL INSULATION FROM DAMPER TO GRADE AND UPPER STACK PERSONNEL PROTECTION BY OTHERS.
 4. SILENCERS, SAFETY VALVE, START-UP PIPING AND SILENCER RACKS SHOWN AT A LATER DATE.

REFERENCE DRAWINGS:
 017424-GAND-001 - GENERAL ARRANGEMENT RIGHT SIDE ELEV.
 017424-GAND-002 - GENERAL ARRANGEMENT LEFT SIDE ELEV.

Rev.	Description	Date	Drawn	Checked	Appr.
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4					
3	GENERAL REVISION	03/08/06	MAS	MS	DP
2	GENERAL REVISION	01/11/06	MAS	MS	DP
1	REVISY PPR CUSTOMER COMMENTS	05/31/06	SP	MS	DP
0	First Issue	05/03/06	SEG	MD	MS

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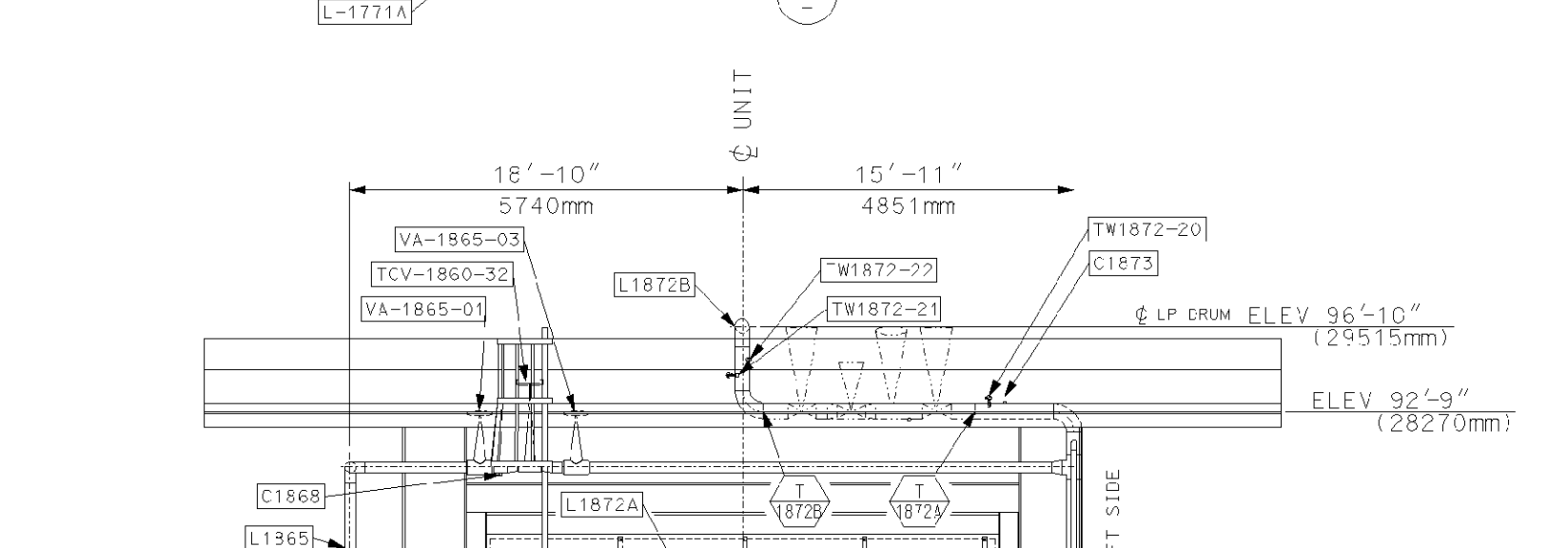
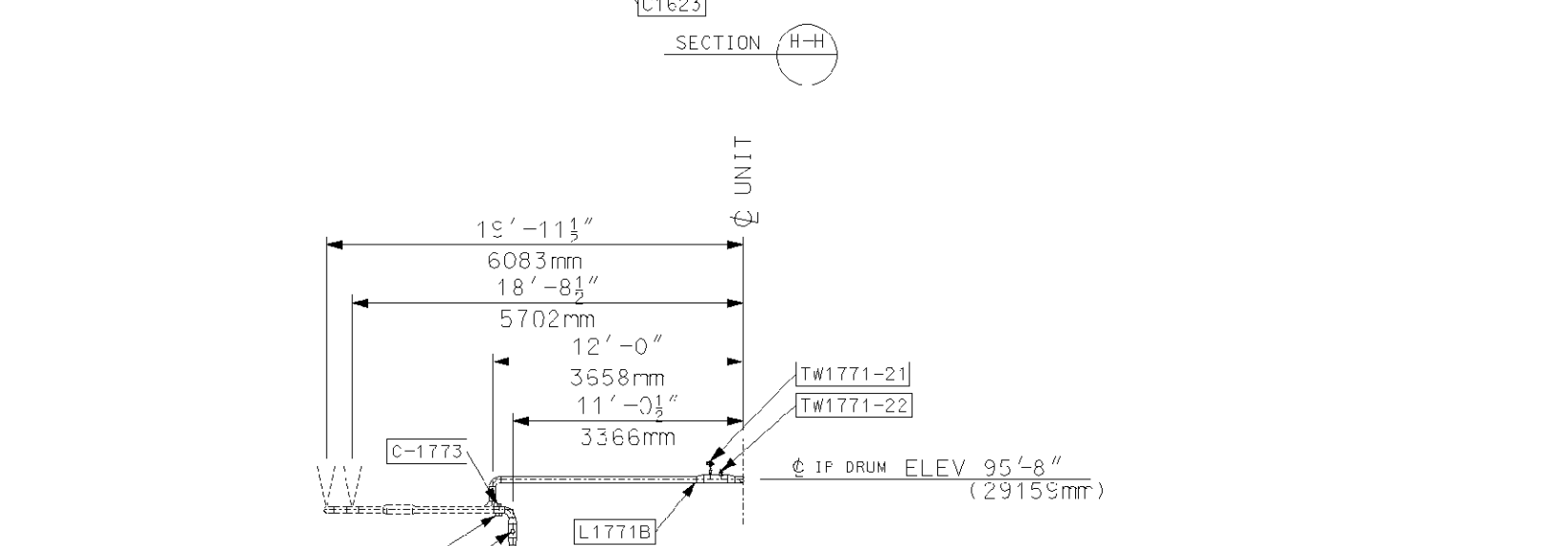
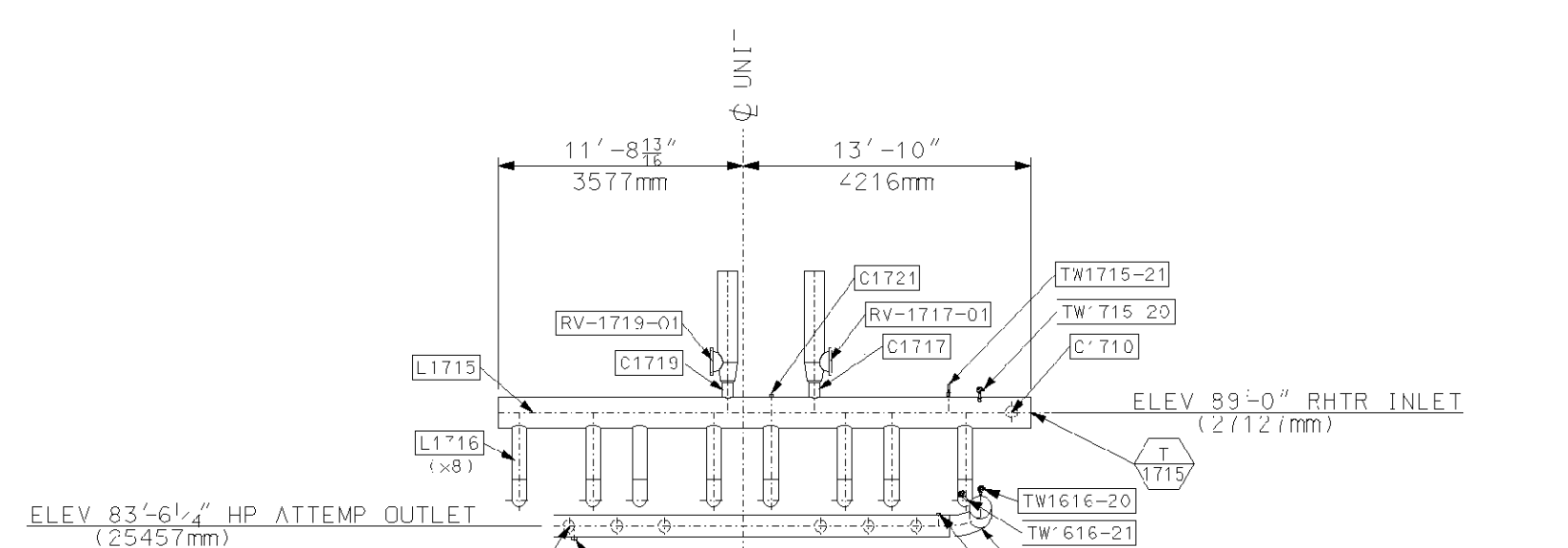
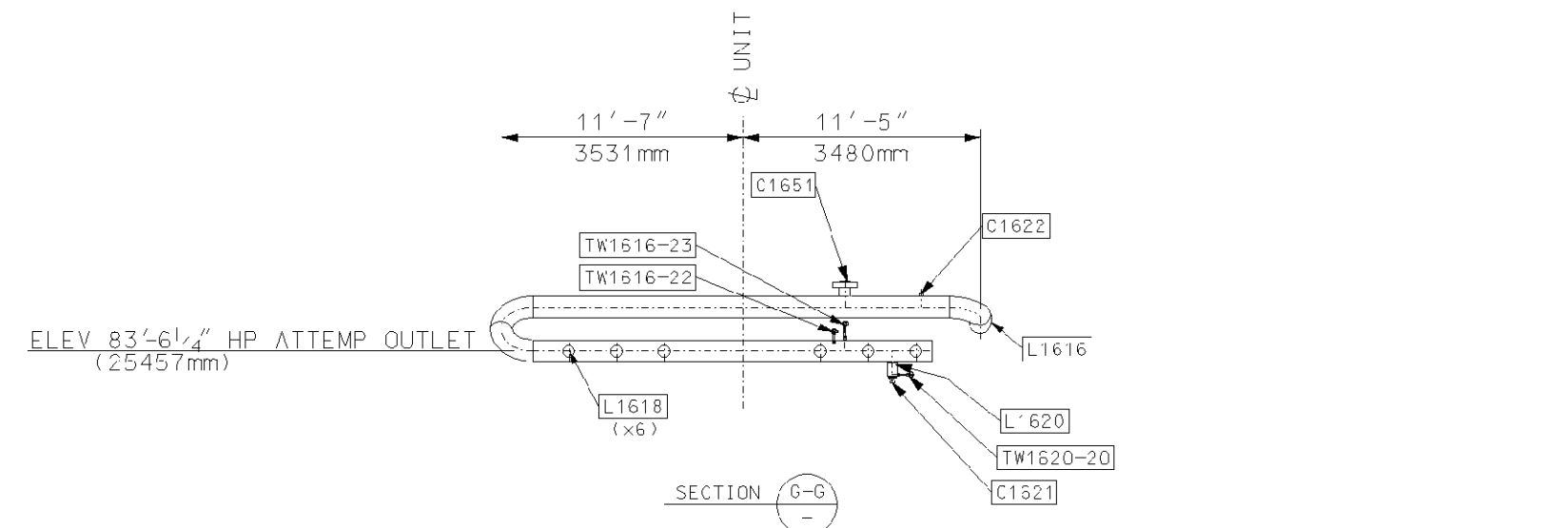
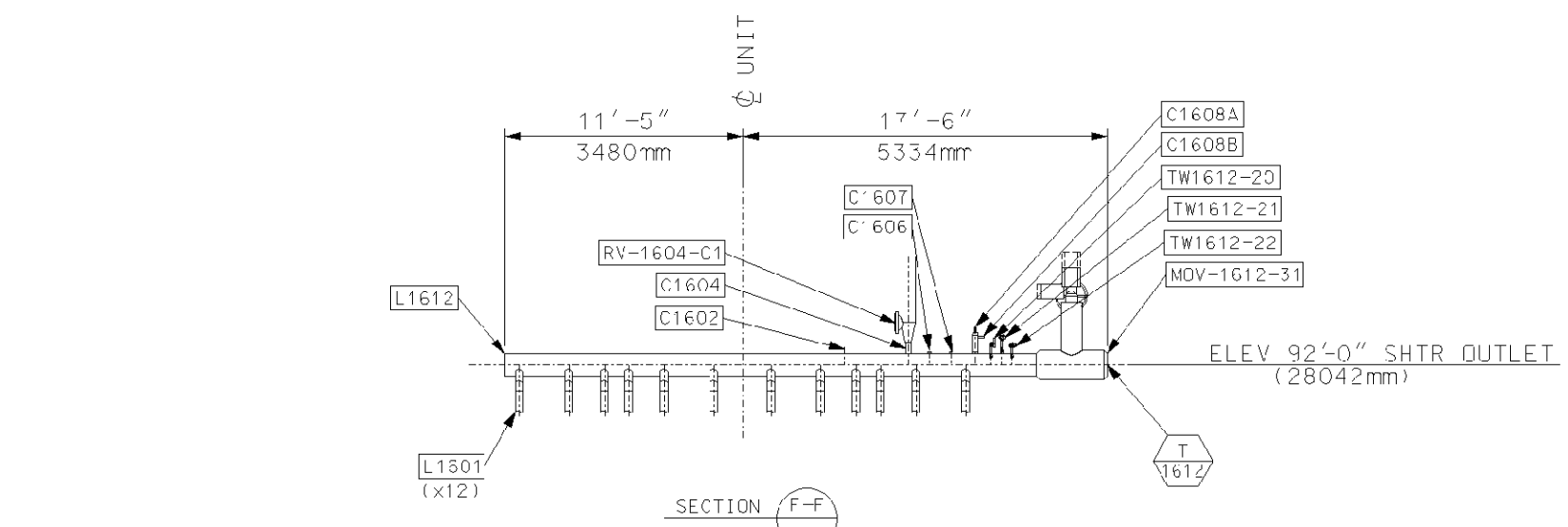
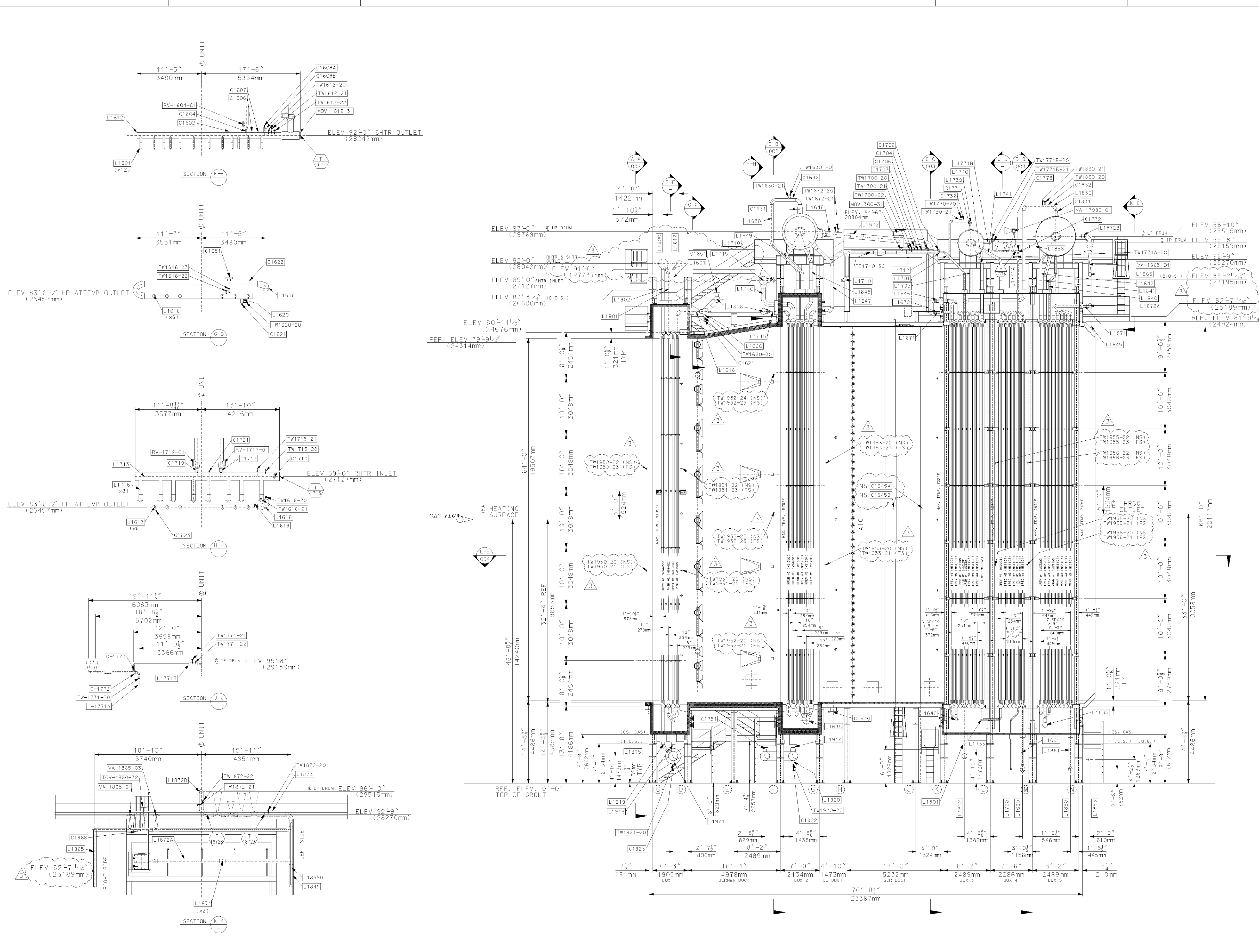
Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UC
 Vogt Power Project 17424

Title
 H.R.S.G. GENERAL ARRANGEMENT
 PLAN VIEW

Vogt Power International
 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.vogtpower.com

Internal Drawing Status: FCR RECCRD
 Size: D
 Drawing No.: 017424-GAND-003
 Rev.: 03

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- REFERENCE DRAWINGS:
- C17424-SEND-002 - BOILER SETTING SECTIONS "A-A" & "B-B"
 - C17424-SEND-003 - BOILER SETTING SECTIONS "C-C" & "D-D"
 - C17424-SEND-004 - BOILER SETTING PLAN SECTION "E-E"
 - C17424-SENF-001 - GENERAL NOTES & DATA
 - C17424-ICNA-001 - LINE LIST
 - C17424-INCA-002 - TERMINAL POINT LIST
 - C17424-INCA-003 - VALVE LIST
 - C17424-INCA-004 - INSTRUMENT LIST

Rev.	Description	Date	Drawn	CHKD.	Appr.
5					
4					
3	GENERAL REVISION	03/08/06	MAS	ME	DP
2	GENERAL REVISION	1/11/05	MAS	ME	DP
1	REVISE PER CUSTOMER COMMENTS	3/31/05	SP	ME	MS DP
0	FIRST ISSUE	3/17/06	SP	ME	DP

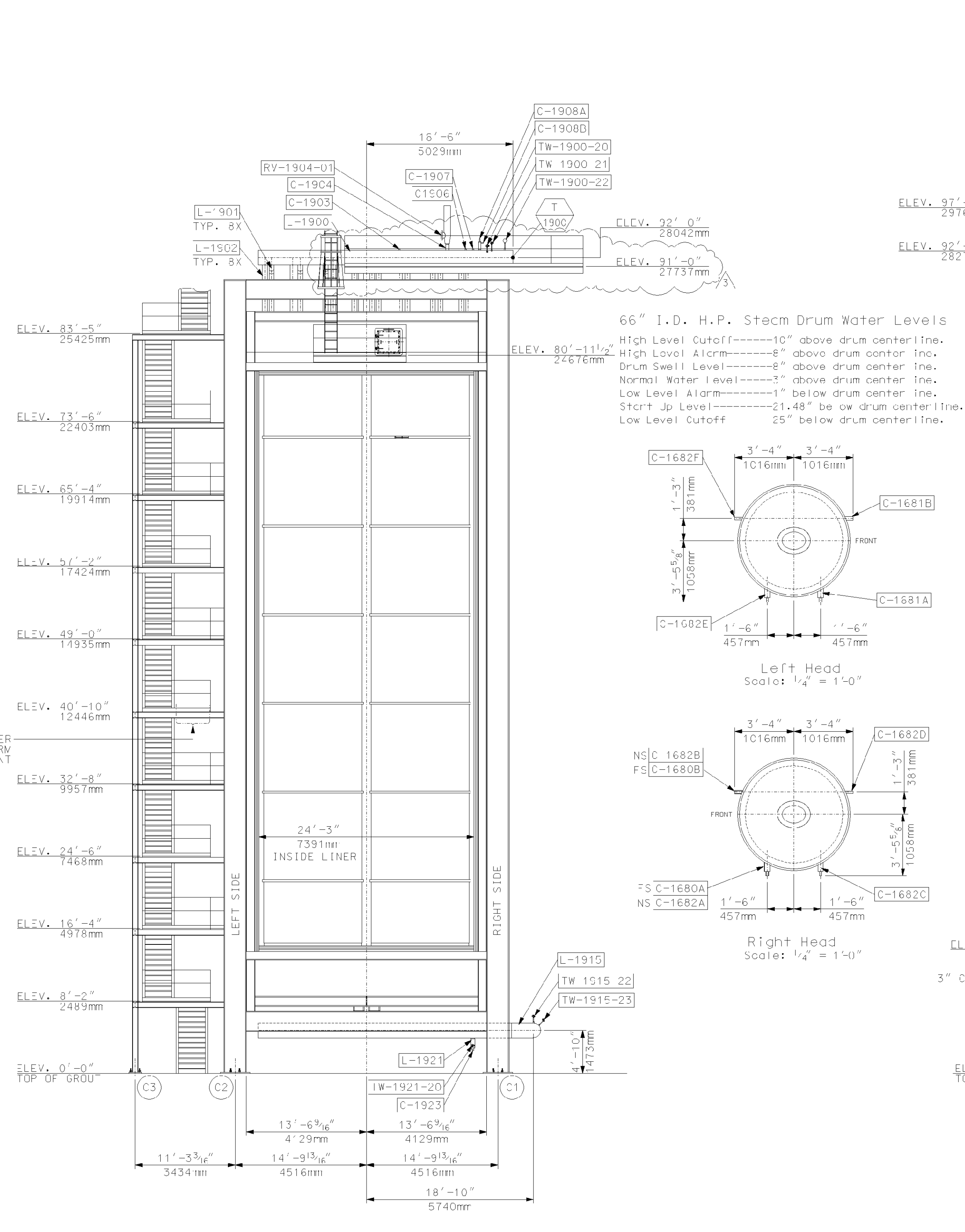
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Title: BOILER SETTING
RIGHT SIDE SECTIONAL ELEVATION
& MISC. SECTIONS

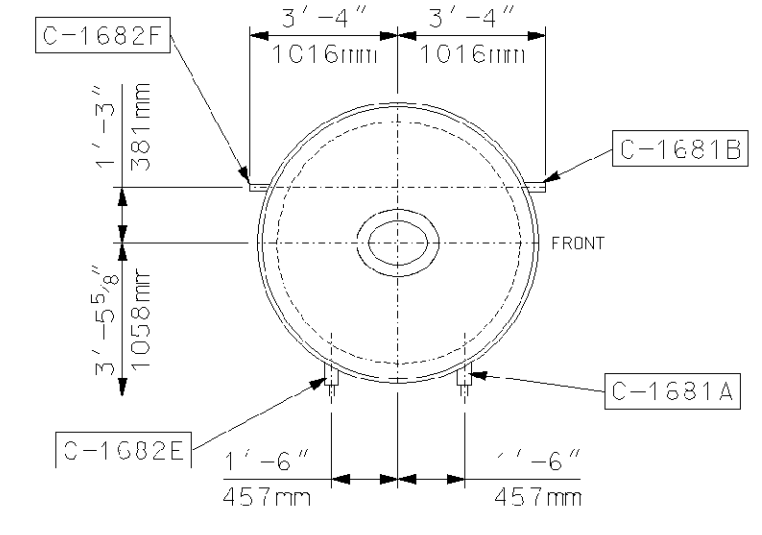
Internal Drawing Status	Size	Drawing No.	Rev.
FCR RECORD	D	017424-SEND-001	03

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Release for manufacture

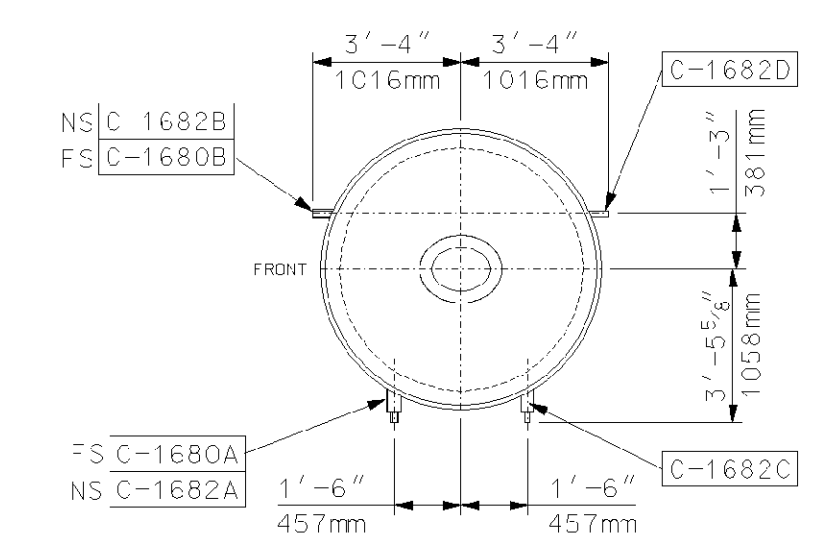


66" I.D. H.P. Steam Drum Water Levels

High Level Cutoff-----10" above drum centerline.
 High Level Alarm-----8" above drum center inc.
 Drum Swell Level-----8" above drum center inc.
 Normal Water Level-----3" above drum center inc.
 Low Level Alarm-----1" below drum center inc.
 Start Up Level-----21.48" below drum centerline.
 Low Level Cutoff-----25" below drum centerline.

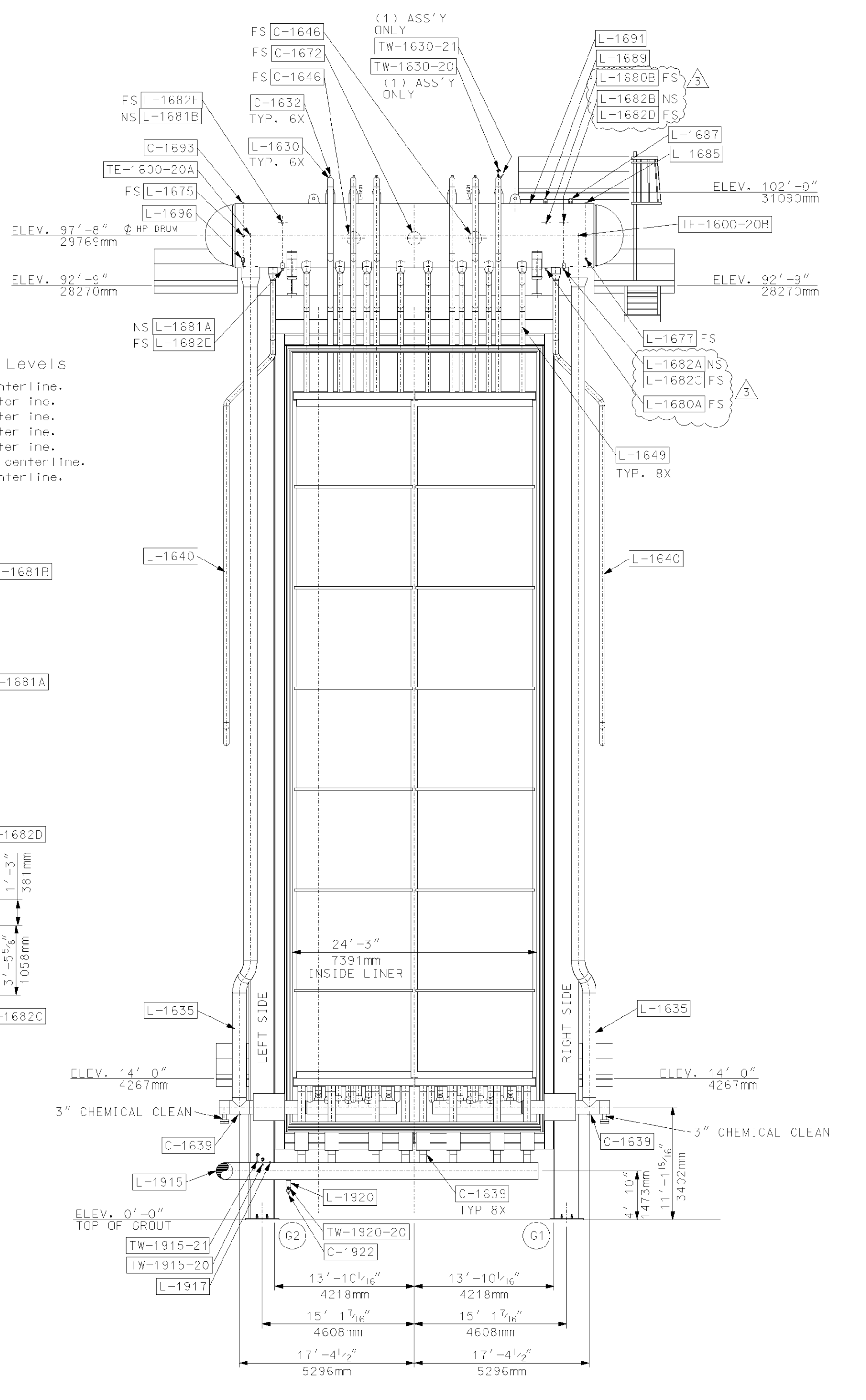


Left Head
Scale: 1/4" = 1'-0"



Right Head
Scale: 1/4" = 1'-0"

SECTION A-A
C01



SECTION B-B
001

REFERENCE DRAWINGS:

- 017424-SEND-00 - BOILER SETTING RIGHT SIDE SECTIONAL ELEVATION & MISC. SECTIONS
- 017424-SEND-003 - BOILER SETTING SECTIONS "C-C" & "D-D"
- 017424-SEND-004 - BOILER SETTING PLAN SECTION "E-E"
- 017424-SENF-00 - GENERAL NOTES & DATA
- 017424-INCNA-00 - LINE LIST
- 017424-INCNA-002 - TERMINAL POINT LIST
- 017424-INCNA-003 - VALVE LIST
- 017424-INCNA-004 - INSTRUMENT LIST

Rev.	Description	Date	Drawn	Chkd.	Appr.
5					
4					
3	GENERAL REVISION	09/08/06	MAS	MB	DP
2	GENERAL REVISION	7/11/06	MAS	MB	DP
1	REVISE PER CUSTOMER COMMENTS	3/31/06	SP	MB	MS DP
0	FIRST ISSUE	3/24/06	RS	SP	MB DP

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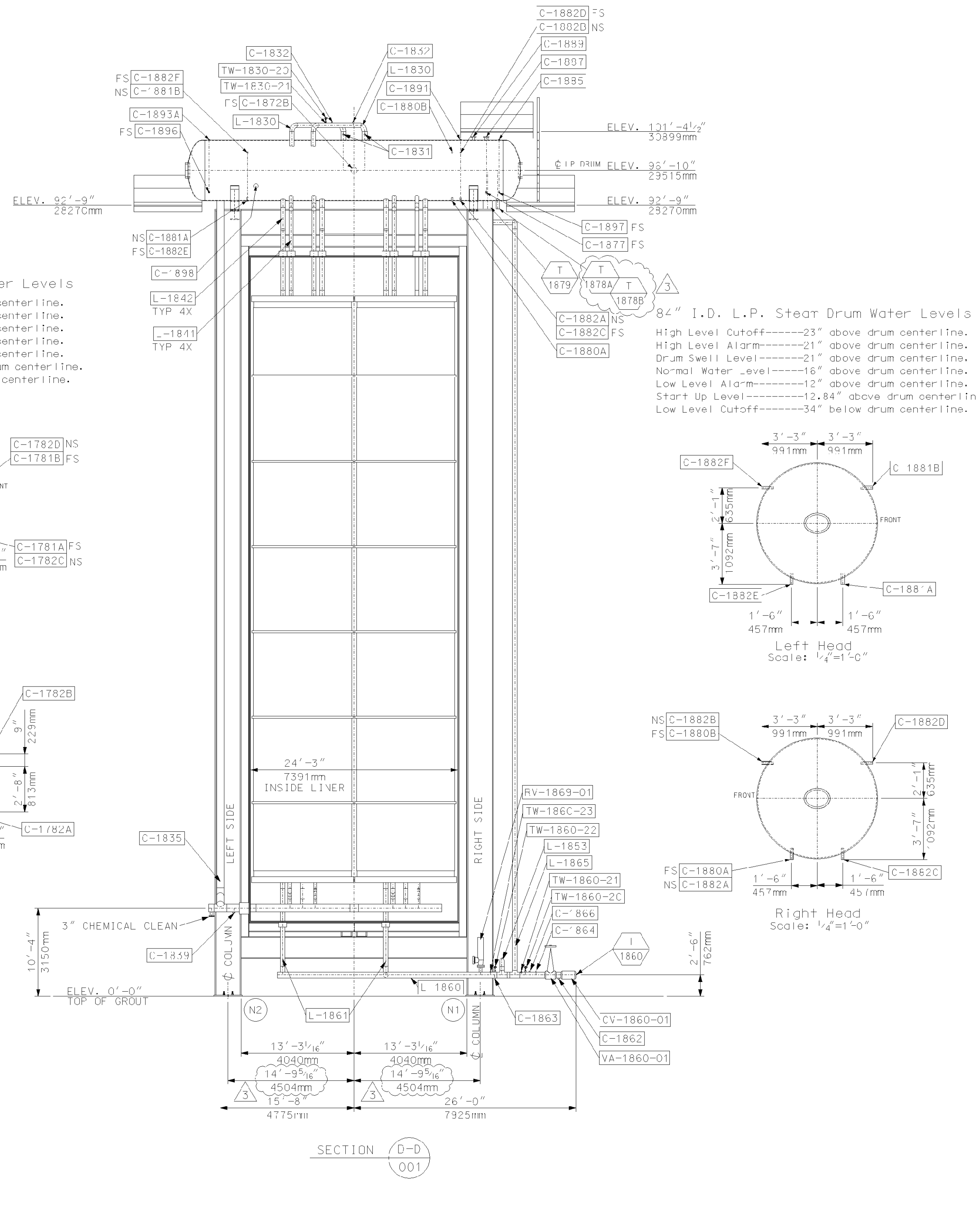
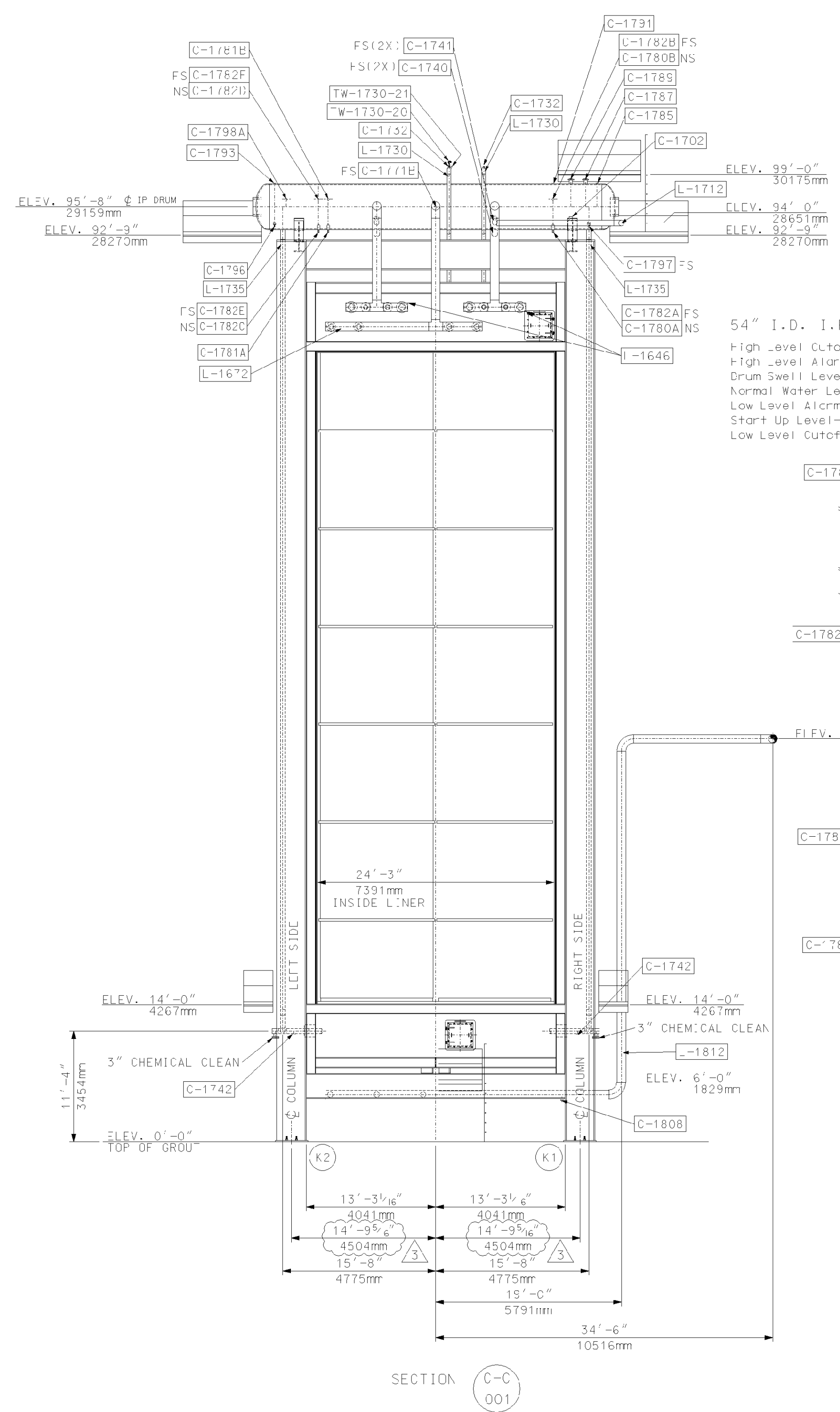
Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Voigt Power Project 17424

Title
 BOILER SETTING
 SECTION "A-A" & "B-B"

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 4000 Jopant Circle
 Louisville, Ky. 40207 USA
 www.VoigtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-SEND-002	03

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- REFERENCE DRAWINGS:**
- 017424-SEND-001 - BOILER SETTING RIGHT SIDE SECTIONAL ELEVATION & MISC. SECTIONS
 - 017424-SEND-002 - BOILER SETTING SECTIONS "A-A" & "B-B"
 - 017424-SEND-004 - BOILER SETTING PLAN SECTION "E-E"
 - 017424-SENF-001 - GENERAL NOTES & DATA
 - 017424-ICNA-001 - LINE LIST
 - 017424-INCA-002 - TERMINAL POINT LIST
 - 017424-INCA-003 - VALVE LIST
 - 017424-INCA-004 - INSTRUMENT LIST

Rev.	Description	Date	Drawn	Chkd.	Appr.
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4					
3	GENERAL REVISION	08/08/06	MAS	MB	EP
2	GENERAL REVISION	7/11/06	MAS	MB	EP
1	REVISED PER CUSTOMER COMMENTS	3/31/06	SP	MR	NS
0	FIRST ISSUE	3/24/06	RS	SP	MB

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 Treasure Coast Energy Center, PB1
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 Voigt Power Project 17424

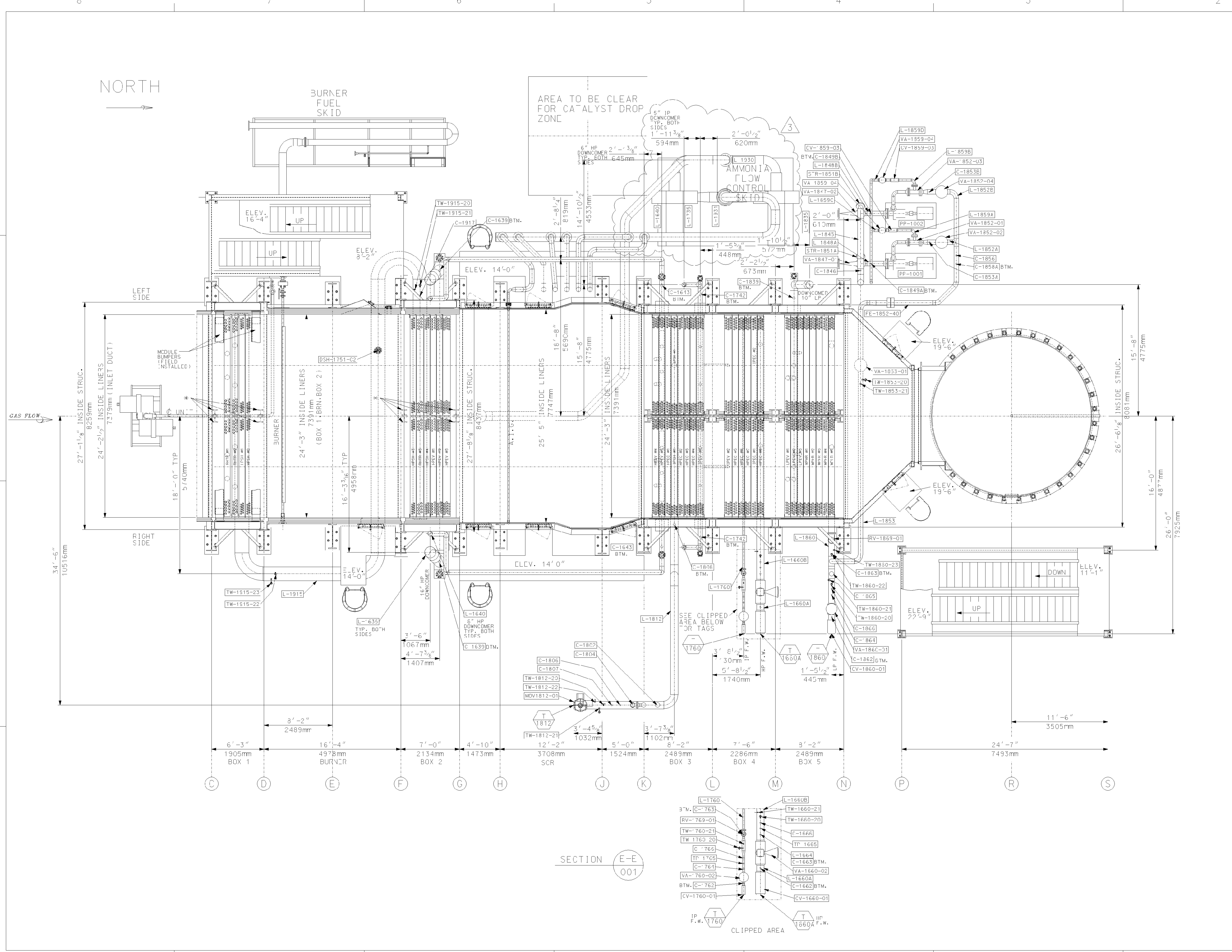
BOILER SETTING SECTION "C-C" & "D-D"



Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-SEND-003	03

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.
NO EXCEPTIONS NOTED
 Release for manufacture

NORTH



NOTES:

- ALL PLATFORM ELEVATIONS ARE TO TOP OF GRATING.
- * INDICATES STRUCTURES TO BE REMOVED AFTER BOXES ARE SET, WELDED IN PLACE, AND MODULES ARE PERMANENTLY TOP SUPPORTED.

REFERENCE DRAWINGS:

- 017424-SEND-001 - BOILER SETTING RIGHT SIDE SECTION, ELEVATION & MISC. SECTIONS
- 017424-SEND-002 - BOILER SETTING SECTIONS "A-A" & "B-B"
- 017424-SEND-003 - BOILER SETTING SECTIONS "C-C" & "D-D"
- 017424-SENF-001 - GENERAL NOTES & DATA
- 017424-ICNA-001 - LINE LIST
- 017424-ICNA-002 - TERMINAL POINT LIST
- 017424-ICNA-003 - VALVE LIST
- 017424-ICNA-004 - INSTRUMENT LIST

Rev.	Description	Date	Drawn	Chkd.	Appr.
5					
4					
3	GENERAL REVISION	09/08/06	MAS	MB	DP
2	GENERAL REVISION	7/11/06	MAS	MB	DP
1	REVISE PER CUSTOMER COMMENTS	3/31/06	SEG	SP	ME
0	First Issue	3/24/06	SEG	SP	MB

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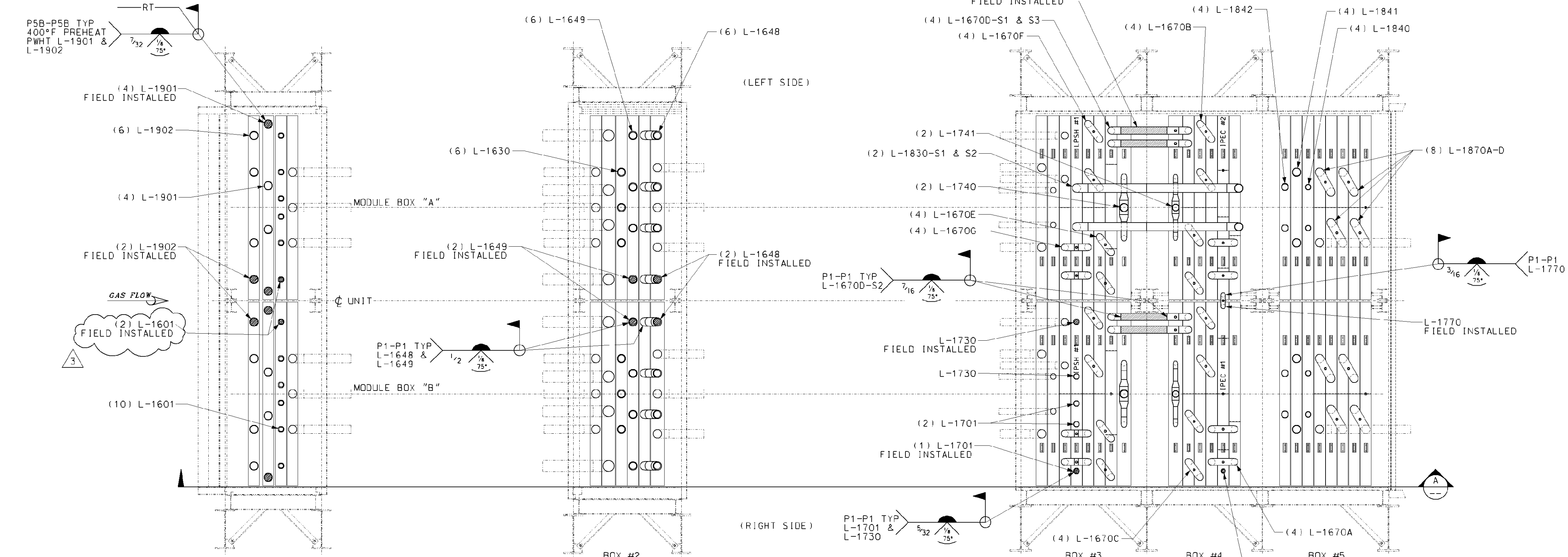
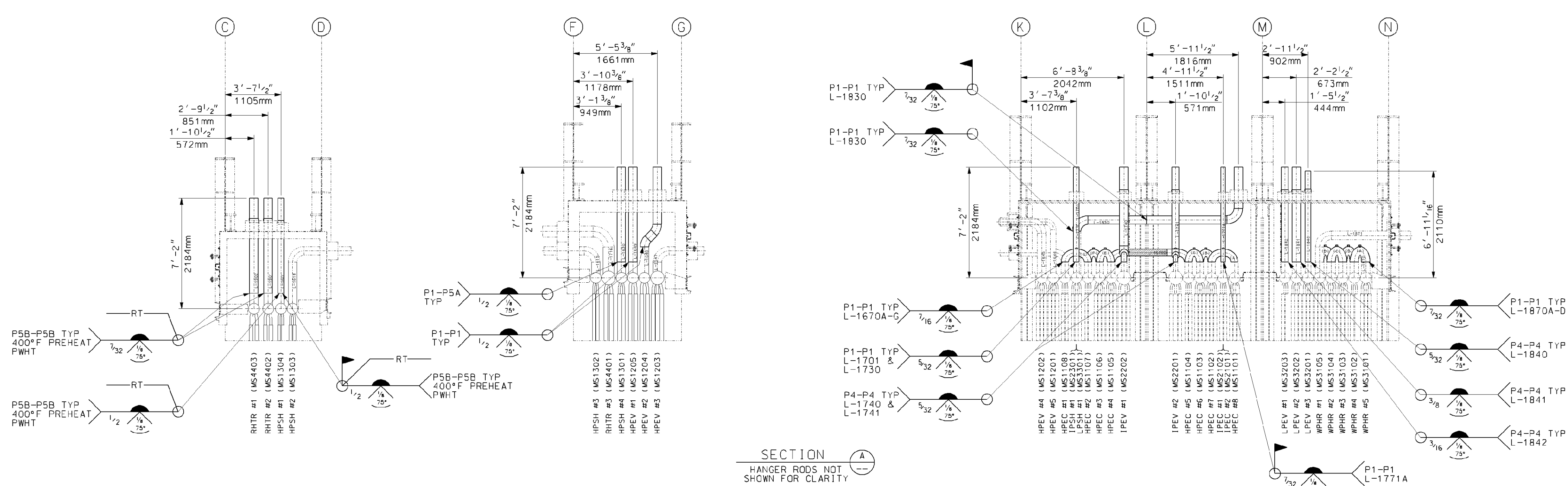
Title: BOILER SETTING PLAN SECTION "E-E"

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4000 Jopant Circle
Louisville, Ky. 40207 USA
www.VoegtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-SEND-004	03

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NO EXCEPTIONS NOTED
Release for manufacture



- GENERAL NOTES:**
- ALL PIPE WELDS (TESTING, PREHEAT, PWHT) SHALL BE DONE IN ACCORDANCE WITH ASME B31.1/SECTION I BOILER CODE. (VISUALLY INSPECT ALL WELDS). ALL WELDS SHOWN ARE COMPLETED AT MODULE BOX ASSEMBLY UNLESS FIELD WELD SYMBOL IS APPLIED.
 - ALL DIMENSIONS ARE TO CENTER LINE OF PIPE AND FINISHED LENGTHS UNLESS OTHERWISE NOTED. ADDITIONAL LENGTHS ARE SHOWN ON THE ASSEMBLY DETAILS.
 - ALL PIPE TO BE BEVELED PER ANSI B16.25 FIG.2A OR 3A UNLESS OTHERWISE NOTED.
 - ALL CIRCUMFERENTIAL BUTT WELDS ON PIPE TO BE FULL PENETRATION.
 - WHEN SECTION 1 OR SECTION 1/B31.1 PIPING SPOOLS ARE FABRICATED BY OTHER THAN THE MODULE BOX FABRICATOR, EACH SPOOL SHALL HAVE A PARTIAL "S" STAMP APPLIED AS INDICATED BY THE "A" AT A LOCATION 6" FROM THE FIELD JOINT. WHEN PIPING SPOOLS ARE SUPPLY BY THE BOX FABRICATOR, THE PARTIAL "S" STAMPING APPLIED, TO CERTIFY ASME CODE FABRICATION, MAY BE LOCATED INSIDE THE BOX. TO ALLOW THE SITE AI TO CONFIRM CERTIFICATION, LOCATE THE STAMP AT A VISIBLE LOCATION ON THE OUTLET HEADER OR NOZZLE FOR EACH DIFFERENT BOILER SECTION (HP, LP, AND LPI). ALL FABRICATED CODE PIPING (SECTION 1 OR SECTION 1/B31.1) SHIPPED LOOSE TO THE FIELD SHALL BE STAMPED WITH THE MANUFACTURER PARTIAL "S" STAMP. THE RECOMMENDED STAMPING LOCATION IS SUBJECT TO CONTRACTOR'S AI APPROVAL. CHANGES TO THE RECOMMENDED STAMPING LOCATION SHALL BE SUBMITTED TO VOGT POWER FOR REVIEW.
 - DESIGN PRESSURES LISTED INCLUDE HYDRAULIC PRESSURE WHEN APPLICABLE.
 - FILLET WELD REINFORCEMENT SHALL HAVE THROAT DIMENSION PRESENT TO MEET THE FILLET LEG SIZE (I.E. 0.07 X FILLET LEG) THROUGHOUT THE WELD LENGTH.
 - ALL ASSEMBLIES AND SINGLE ITEMS TO BE MARKED WITH THEIR TAG NUMBER.
 - NON-PRESSURE ATTACHMENT WELDS ARE PER ASME SECTION 1, PW-36, PW-38, AND PW-39.
 - ALL PIPE SPOOLS MARKED AS "FIELD INSTALLED" ARE TO BE CRATED AND SHIPPED WITH MODULE BOX ASSY.
 - QTY. SHOWN FOR ONE (1) UNIT. ONE (1) UNIT REQ'D TOTAL.

- REFERENCE DRAWINGS:**
- 01742-MAND-002: TOP RISER AND CROSSOVER PIPING DETAILS
 - 01742-MAND-010: BOTTOM FEEDERS AND CROSSOVER PIPING
 - 01742-MAND-011: BOTTOM FEEDERS AND CROSSOVER PIPING DETAILS
 - 01742-MAND-012: BOTTOM FEEDERS AND CROSSOVER PIPING DETAILS
 - 01742-MAND-013: BOTTOM FEEDERS FORGED NOZZLE DETAILS
 - 01742-EBND-107: STANDARD FABRICATION TOLERANCE FOR SHOP ASSEMBLED PIPING
 - 01742-MANC-001: EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLY

Rev.	Description	Date	Drawn	Chkd.	Appr.
5					
4					
3	ADDED "FIELD INSTALLED" NOTE TO L-1601	8/8/06	MAS	MB	
2	CHANGED WELD P=NO	7/31/06	BP	MAS	
1	CHG'G. PIPE TO F.I. DUE TO LIFT'G BEAM	5/16/06	SEG	MS	DP
0	FIRST ISSUE	5/26/06	SEG	WSP	DP

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3d MODEL PROJECTION

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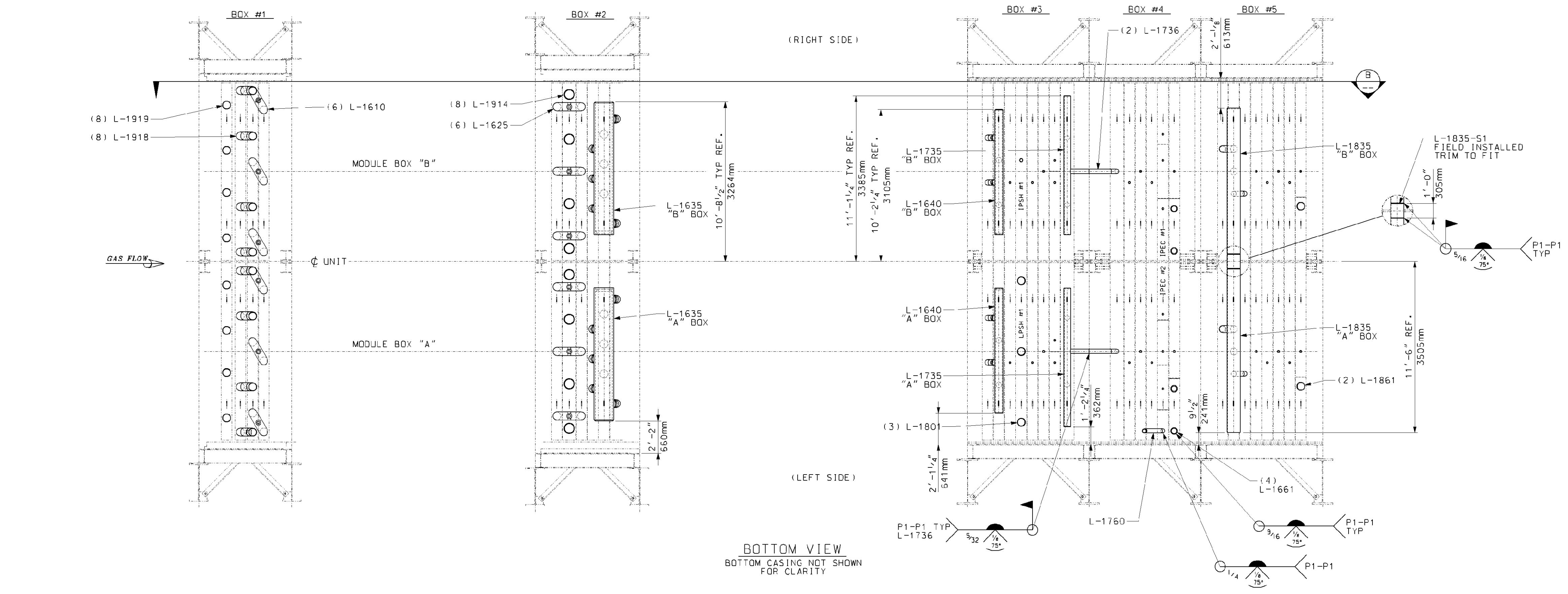
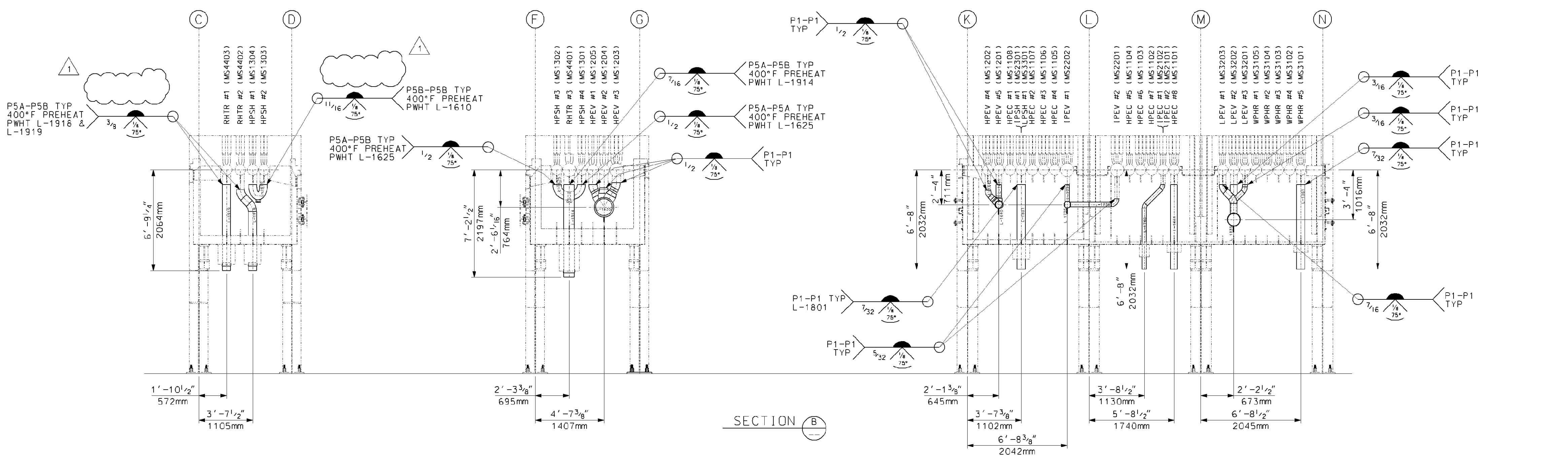
Title: TOP RISER AND CROSSOVER PIPING

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Louisville, Ky. 40207 USA
www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-001	03

NO EXCEPTIONS NOTED
Release for manufacture

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NOTE:
1. FOR GENERAL NOTES SEE DRG. 017424-MAND-001.

- REFERENCE DRAWINGS:**
- 017424-MAND-001: TOP RISER AND CROSSOVER PIPING
 - 017424-MAND-002: TOP RISER AND CROSSOVER PIPING DETAILS
 - 017424-MAND-011: BOTTOM FEEDERS AND CROSSOVER PIPING DETAILS
 - 017424-MAND-012: BOTTOM FEEDERS AND CROSSOVER PIPING DETAILS
 - 017424-MAND-013: BOTTOM FEEDERS FORGED NOZZLE DETAILS
 - 017424-EBND-101: STANDARD FABRICATION TOLERANCE FOR FEEDER HEADER & DOWNCOMER
 - 017424-MANC-001: EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLY

Rev.	Description	Date	Drawn	Chkd.	WSP	DP
1	REMOVED BY REQUIREMENT IN BOX 1	12/01/06	MAS	MB		
0	FIRST ISSUE	3/26/06	SEG	WSP		DP

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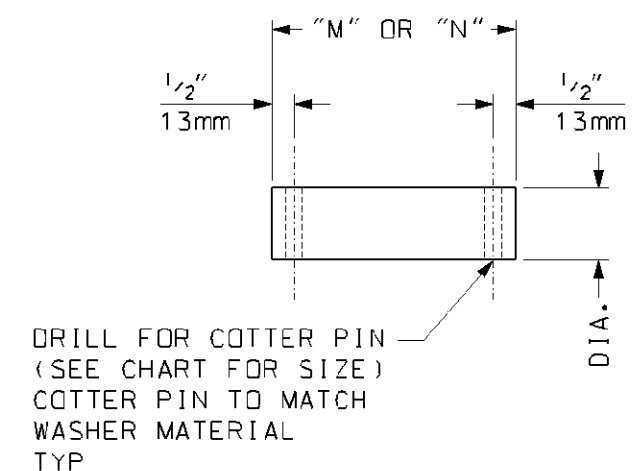
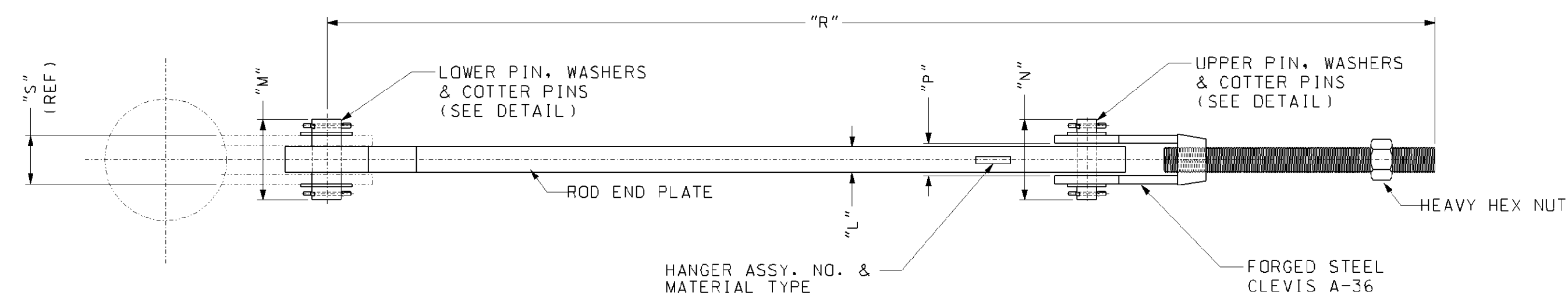
3rd ANGLE PROJECTION
 Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Voigt Power Project 17424
 Scale: 1/4"=12"

TITLE
 BOTTOM RISER AND CROSSOVER PIPING



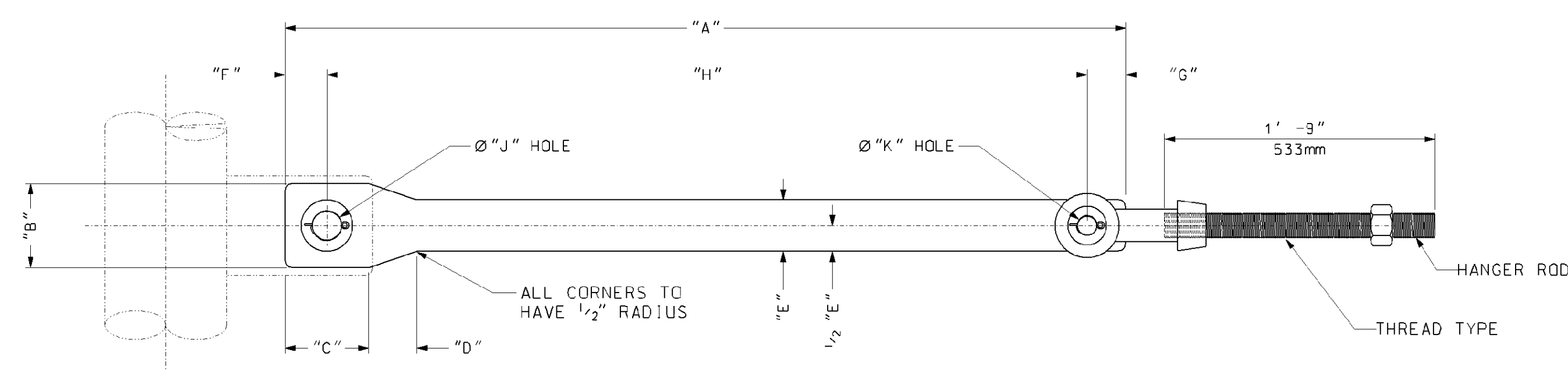
Internal Drawing Status FOR RECORD	Size D	Drawing No. 017424-MAND-010	Rev. 01
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EYE PIN DETAIL

PIN DIA.	COTTER DIA.
1 1/2"	1 1/2"
1 1/2"	1 1/2"
1 3/4"	1 1/2"
2"	3/8"
2 1/4"	3/8"
2 1/2"	3/8"



MODULE NO. (REFERENCE)	BOX NO. (REFERENCE)	HANGER ASSEMBLY NO.	HANGER ROD			ROD END PLATE											
			DIA.	MAT'L	THREAD TYPE	MAT'L	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"	DIM. "F"	DIM. "G"	DIM. "H"	DIM. "J"	DIM. "K"	DIM. "L"
MS4403 (RHTR#1)	1	MA0003	1 1/2"	A-36	1 1/2"-BUN-2A	SA-387 GR. 91 CL2	66 1/2"	4"	6"	1 1/4"	3 1/4"	2"	2"	62 1/4"	1 5/16"	1 5/16"	1"
MS4402 (RHTR#2)	1	MA0003	1 1/2"	A-36	1 1/2"-BUN-2A	SA-387 GR. 91 CL2	66 1/2"	4"	6"	1 1/4"	3 1/4"	2"	2"	62 1/4"	1 5/16"	1 5/16"	1"
MS1304 (HPSH#1)	1	MA0004	1 1/2"	A-36	1 1/2"-BUN-2A	SA-387 GR. 91 CL2	67"	4"	6"	1 1/4"	3 1/4"	2"	2"	63"	1 5/16"	1 5/16"	1"
MS1303 (HPSH#2)	1	MA0004	1 1/2"	A-36	1 1/2"-BUN-2A	SA-387 GR. 91 CL2	67"	4"	6"	1 1/4"	3 1/4"	2"	2"	63"	1 5/16"	1 5/16"	1"
MS1302 (HPSH#3)	2	MA0005	1 1/2"	A-36	1 1/2"-BUN-2A	B408-800HT	68"	7 1/2"	8"	5 1/4"	4"	3 1/2"	2 1/2"	62"	2 5/16"	1 9/16"	2"
MS4401 (RHTR#3)	2	MA0006	1 1/2"	A-36	1 1/2"-BUN-2A	B408-800HT	67"	7 1/2"	8"	5 1/4"	4"	3 1/2"	2 1/2"	61"	2 5/16"	1 9/16"	2"
MS1301 (HPSH#4)	2	MA0007	1 1/2"	A-36	1 1/2"-BUN-2A	316H SS	68"	7"	8"	3"	5"	3 1/2"	2 1/2"	62"	2 5/16"	1 9/16"	2"
MS1205 (HPEV#1)	2	MA0008	2"	A-36	2"-BUN-2A	316H SS	68"	7"	8"	3"	5"	3 1/2"	2 1/2"	62"	2 5/16"	1 9/16"	2"
MS1204 (HPEV#2)	2	MA0009	2"	A-36	2"-BUN-2A	316H SS	68"	7"	8"	3"	5"	3 1/2"	2 1/2"	62"	2 5/16"	1 9/16"	2"
MS1203 (HPEV#3)	2	MA0010	2 1/4"	A-36	2 1/4"-BUN-2A	316H SS	67"	7"	8"	3"	5"	3 1/2"	2 1/2"	61"	2 5/16"	2 1/8"	2"

LOWER EYE PIN			UPPER EYE PIN			LOWER EYE PIN WASHERS (2)		UPPER EYE PIN WASHERS (2)		HEAVY HEX NUT	CLEVIS		DIM. "R"	DIM. "S" (REFERENCE)	QTY. PER UNIT	MODULE NO. (REFERENCE)
DIA.	MAT'L	DIM. "M"	DIA.	MAT'L	DIM. "N"	SIZE (1/2" THK.)	MAT'L	SIZE (1/2" THK.)	MAT'L	THREAD TYPE	NO.	DIM. "P"				
1 1/2"	SA-182 F91	5"	1 1/2"	A-36	5"	1 3/16" ID X 3" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	3 1/2	1 1/2"	89"	2 1/2"	4	MS4403 (RHTR#1)
1 1/2"	SA-182 F91	5"	1 1/2"	A-36	5"	1 3/16" ID X 3" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	3 1/2	1 1/2"	89"	2 1/2"	4	MS4402 (RHTR#2)
1 1/2"	SA-182 F91	5"	1 1/2"	A-36	5 1/2"	1 3/16" ID X 3" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	5	1 1/2"	89"	2 1/2"	4	MS1304 (HPSH#1)
1 1/2"	SA-182 F91	5"	1 1/2"	A-36	5 1/2"	1 3/16" ID X 3" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	5	1 1/2"	89"	2 1/2"	4	MS1303 (HPSH#2)
2 1/2"	B408-800HT	6"	1 1/2"	A-36	6 1/2"	2 3/16" ID X 4" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	5	2 1/2"	89"	3 1/2"	4	MS1302 (HPSH#3)
2 1/2"	B408-800HT	6"	1 1/2"	A-36	6 1/2"	2 3/16" ID X 4" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	5	2 1/2"	88"	3 1/2"	4	MS1401 (RHTR#3)
2 1/4"	316H SS	6 1/2"	1 1/2"	A-36	6 1/2"	2 3/16" ID X 4" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	1 1/2"-BUN-2B	5	2 1/2"	89"	3 1/2"	4	MS1301 (HPSH#4)
2 1/4"	316H SS	6 1/2"	1 1/2"	A-36	6 1/2"	2 3/16" ID X 4" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	2"-BUN-2B	5	2 1/2"	89"	3 1/2"	4	MS1205 (HPEV#1)
2 1/4"	316H SS	6 1/2"	1 3/4"	A-36	6 1/2"	2 5/16" ID X 4" OD	SA-240 TP304H	1 3/16" ID X 3" OD	A-36	2"-BUN-2B	5	2 1/2"	89"	3 3/4"	4	MS1204 (HPEV#2)
2 1/4"	316H SS	6 1/2"	2"	A-36	6 1/2"	2 5/16" ID X 4" OD	SA-240 TP304H	2 1/8" ID X 4" OD	A-36	2 1/4"-BUN-2B	6	2 1/2"	89"	3 3/4"	4	MS1203 (HPEV#3)

- NOTES:
- ALL HEAVY HEX NUTS TO BE A-194 GR. 2H
 - STAMP ASSEMBLY NO. ON HANGER ASSEMBLY AT APPROXIMATE LOCATION SHOWN. STAMP MATERIAL TYPE ON RODS, PINS AND WASHERS.
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT. ONE (1) UNIT TOTAL REQUIRED.

- REFERENCE DRAWINGS:
- 017424-MAND-030 MODULE BOX ASSEMBLY - BOX 1A
 - 017424-MAND-031 MODULE BOX ASSEMBLY - BOX 1B
 - 017424-MAND-040 MODULE BOX ASSEMBLY - BOX 2A
 - 017424-MAND-041 MODULE BOX ASSEMBLY - BOX 2B

Rev.	Description	Date	Drawn	Chkd.	Appr.
1	REVISED DIM. "L", "N" & "P"	05/31/06	WSP	MAS	DP
0	FIRST ISSUE	04/03/06	BP	RDM C	DP

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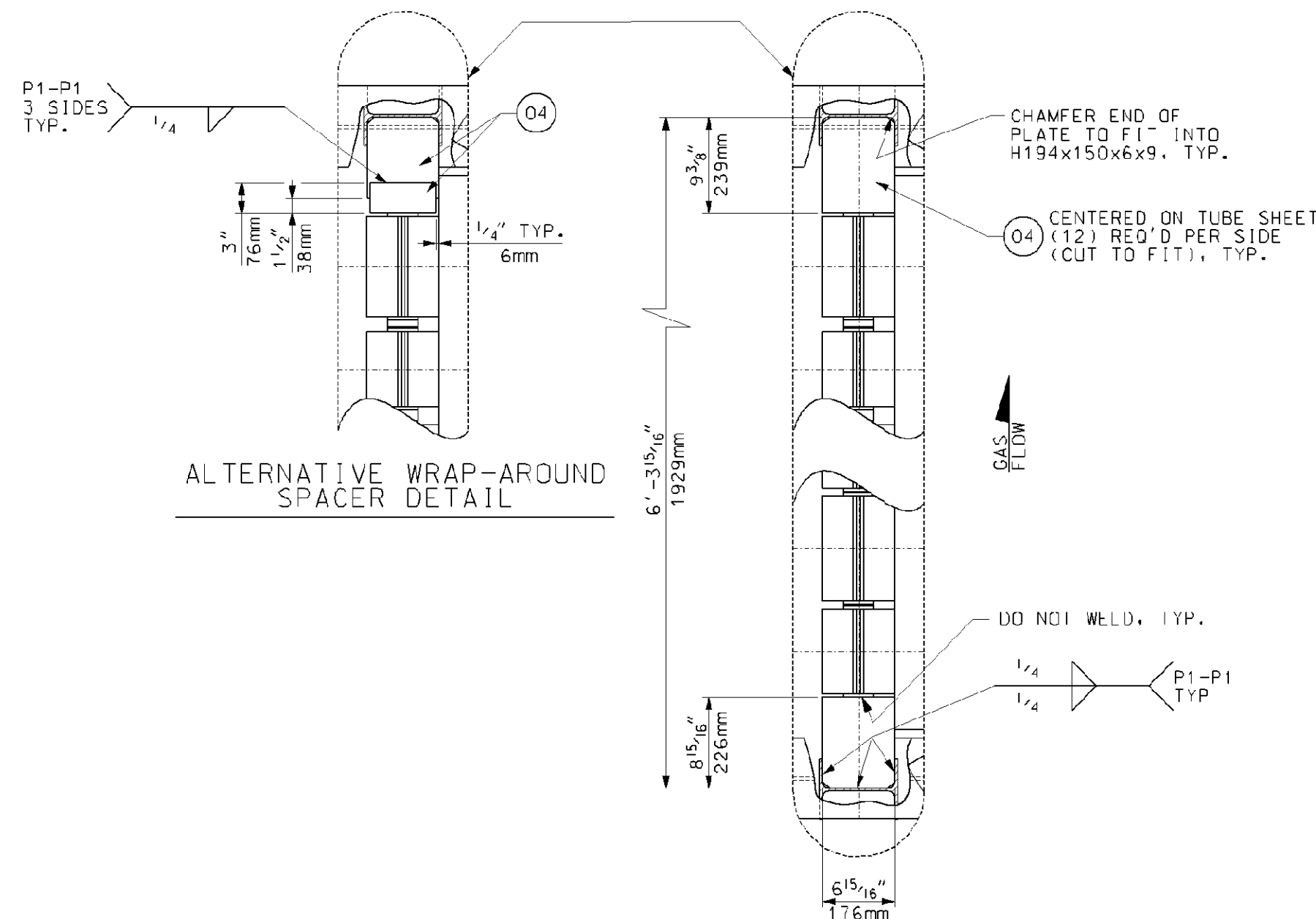
TITLE
MODULE TOP SUPPORT ASSEMBLIES
SHOP INSTALLED BOXES 1 & 2

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Louisville, Ky. 40207 USA
www.VogtPower.com

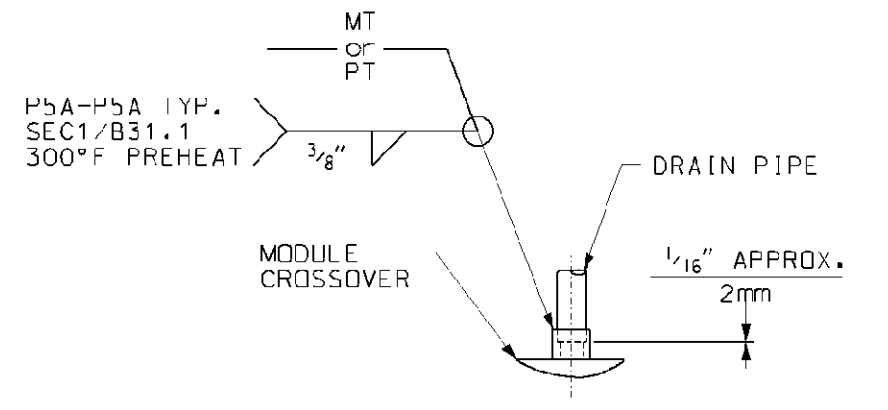
Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-021	01

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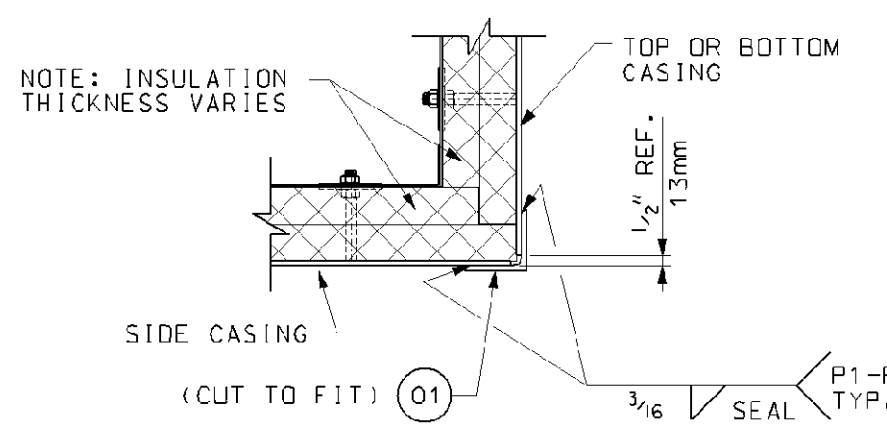
NO EXCEPTIONS NOTED
Release for manufacture



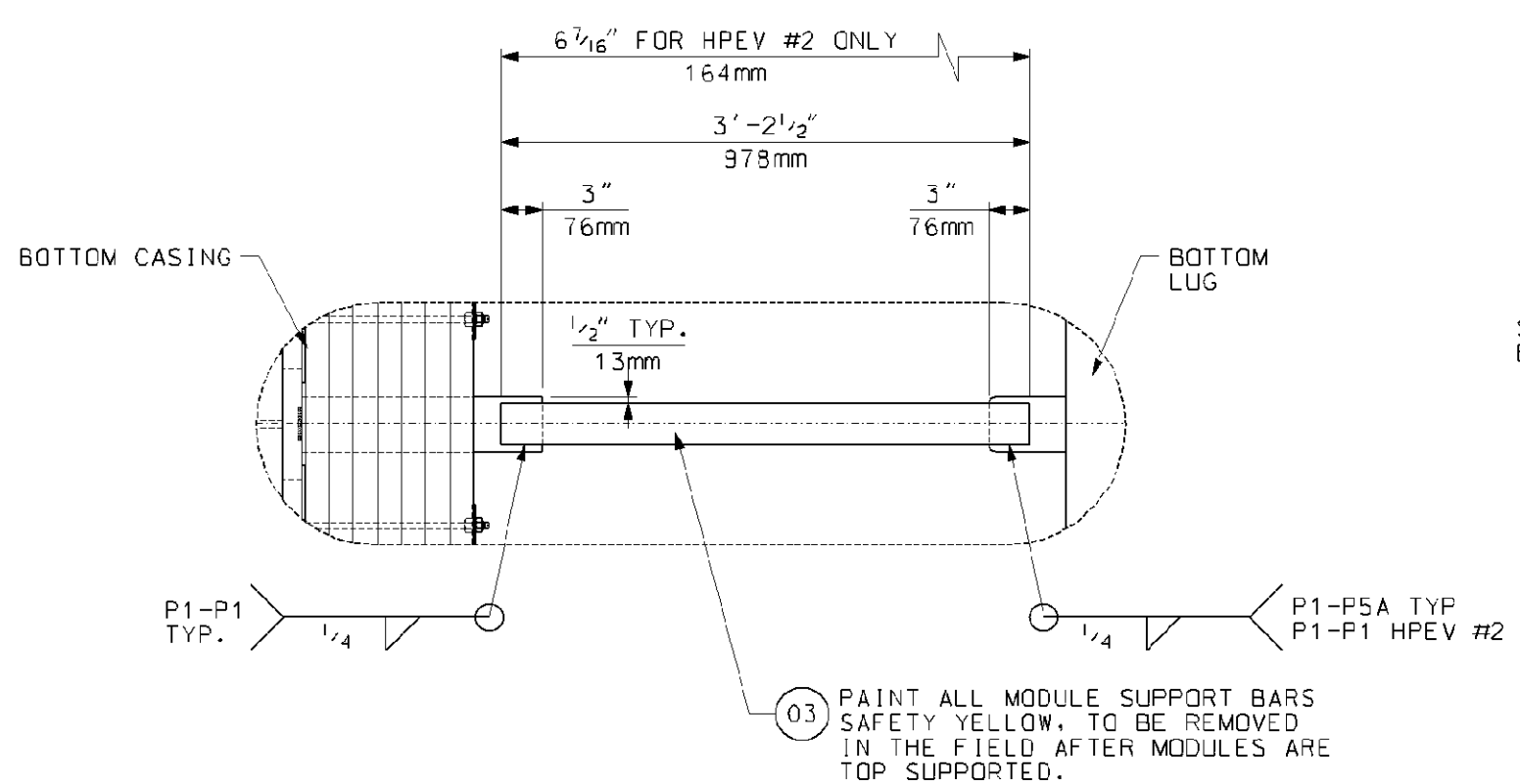
TYPICAL WRAP-AROUND SPACER DETAIL
 (12) LOCATIONS BOX "2A"
 (12) LOCATIONS BOX "2B"
 SCALE: 1" = 1'-0"



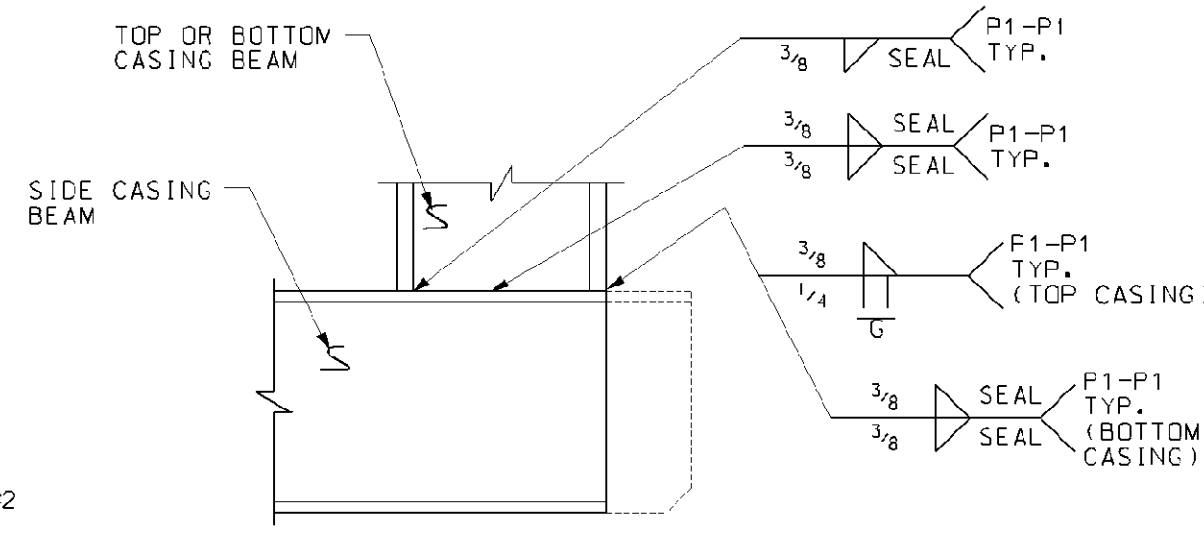
DRAIN WELD DETAIL
 SCALE: 1 1/2" = 1'-0"



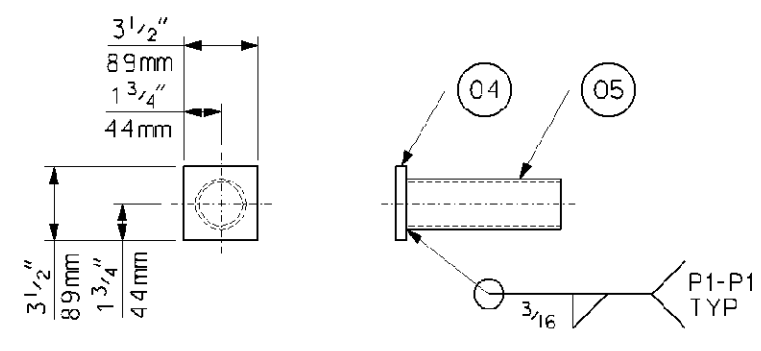
TYPICAL TOP/BOTTOM CASING TO SIDE CASING CONNECTION
 NOT TO SCALE



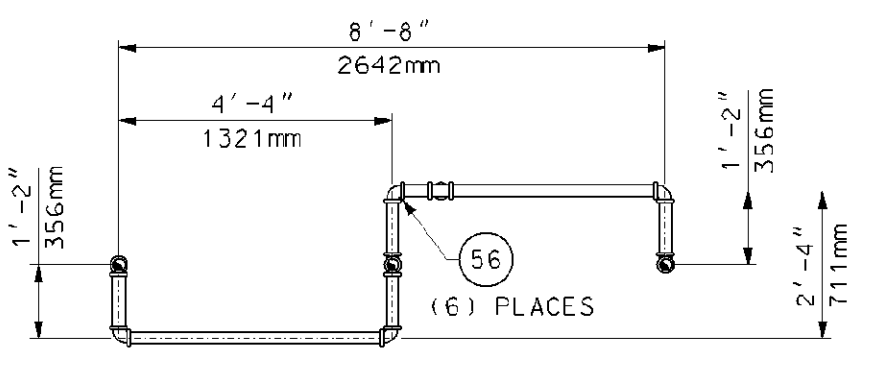
MODULE SUPPORT DETAIL
 (8) LOCATIONS BOX "2A"
 (8) LOCATIONS BOX "2B"
 SCALE: 1" = 1'-0"



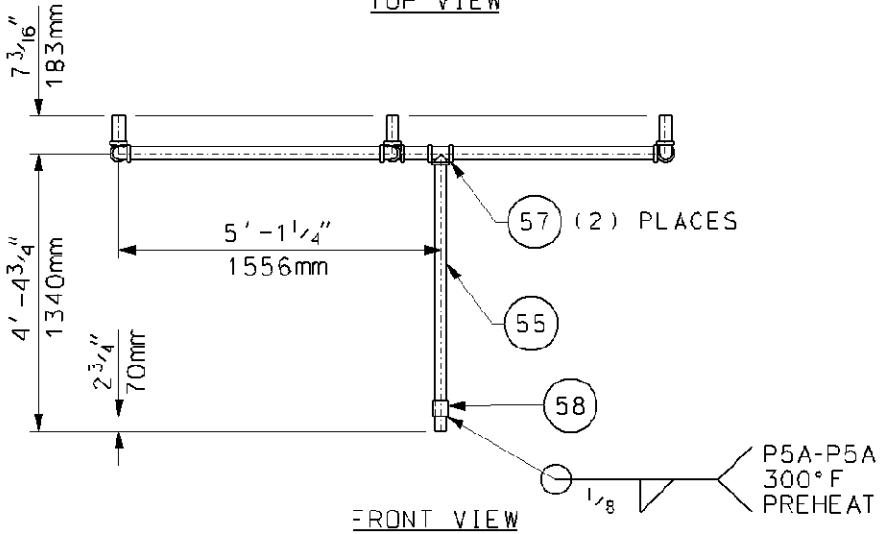
TYPICAL TOP/BOTTOM CASING TO SIDE STRUCTURAL CONNECTION
 CASING AND INSULATION NOT SHOWN FOR CLARITY
 NOT TO SCALE



DETAIL
 (16) LOCATIONS BOX "2A"
 (16) LOCATIONS BOX "2B"
 SCALE: 1 1/2" = 1'-0"

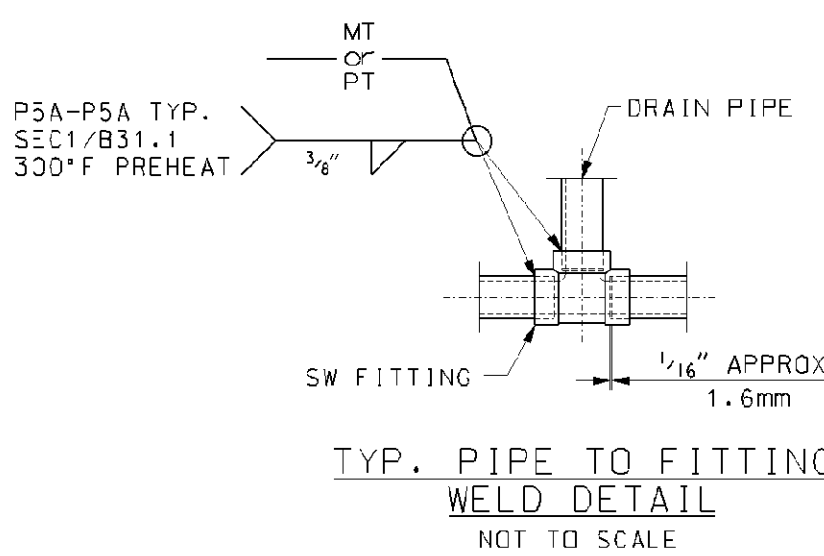


TOP VIEW

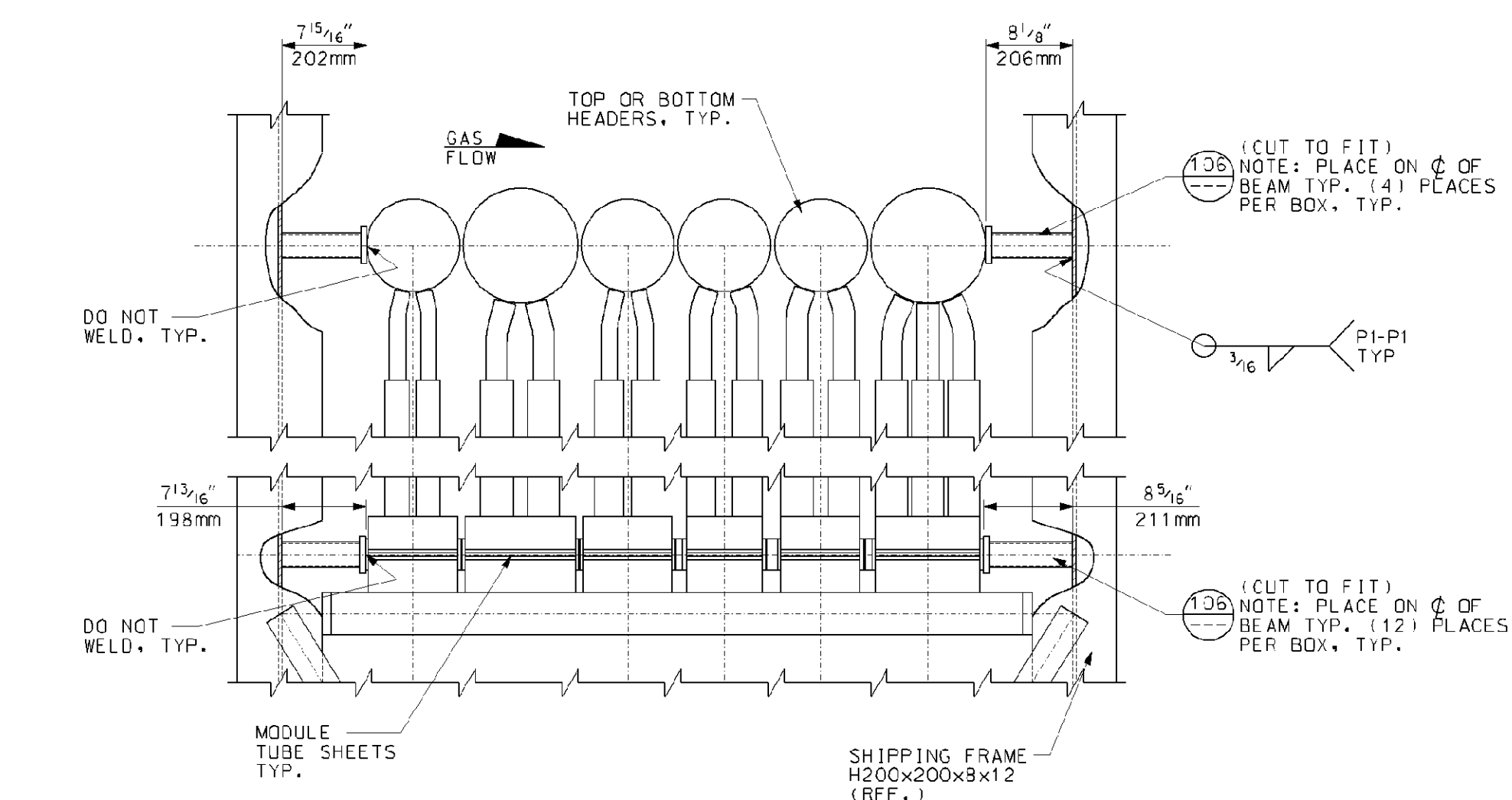


FRONT VIEW

DETAIL MA2001 DRAIN ASS'Y
 SCALE: 3/8" = 1'-0"
 BOX 2A, (1) REQ'D
 BOX 2B, (1) REQ'D
 APPROX. WEIGHT: 236 LBS. EA.



TYP. PIPE TO FITTING WELD DETAIL
 NOT TO SCALE



SECTION VIEW
 SCALE: 1" = 1'-0"

BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	23	LIN. FT. OF ANGLE, L75x75x6	JIS G3101-S400
03	41	LIN. FT. OF BAR, 1/2" (12mm) THK. x 3" WIDE	JIS G3101-S400
04	25	SD. FT. OF PLATE, 1/2" (12mm) THK.	JIS G3101-S400
05	21	LIN. FT. OF PIPE, 2" SCH. 40 (0.154" WALL)	SA-108 GR. B
55	39	LIN. FT. OF PIPE, 2" SCH. 160 (0.343" WALL)	SA-335 F22
56	12	90° ELBOW, 2" 6000# SW	SA-182 F22
57	4	TEE, 2" 6000# SW	SA-182 F22
58	2	PIPE, 2 1/2" SCH. 40 (0.203" WALL) x 3" LG.	SA-335 F22

PART NUMBERS ARE TO HAVE THE PREFIX OF "MA" FOR EXAMPLE: "20A"(BOX ASSY.) + "01" (PART #) WOULD BE "MA20A01"

- GENERAL NOTES:**
- ALL WELDS IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 - ALL DRAIN PIPE WELDS ARE TO BE SECTION 1 / B31.1.
 - SEE TYPICAL PIPE TO FITTING WELD DETAIL FOR WELDING INSTRUCTIONS.
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNIT IS REQUIRED.

- REFERENCE DRAWINGS:**
- 017424-MAND-040 - MODULE BOX ASSEMBLY BOX #2A
 - 017424-MAND-041 - MODULE BOX ASSEMBLY BOX #2B
 - 017424-MAND-043 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
0	FIRST ISSUE	08/14/06	BP	JD	DP
Revisions					

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Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Vogt Power Project 17424

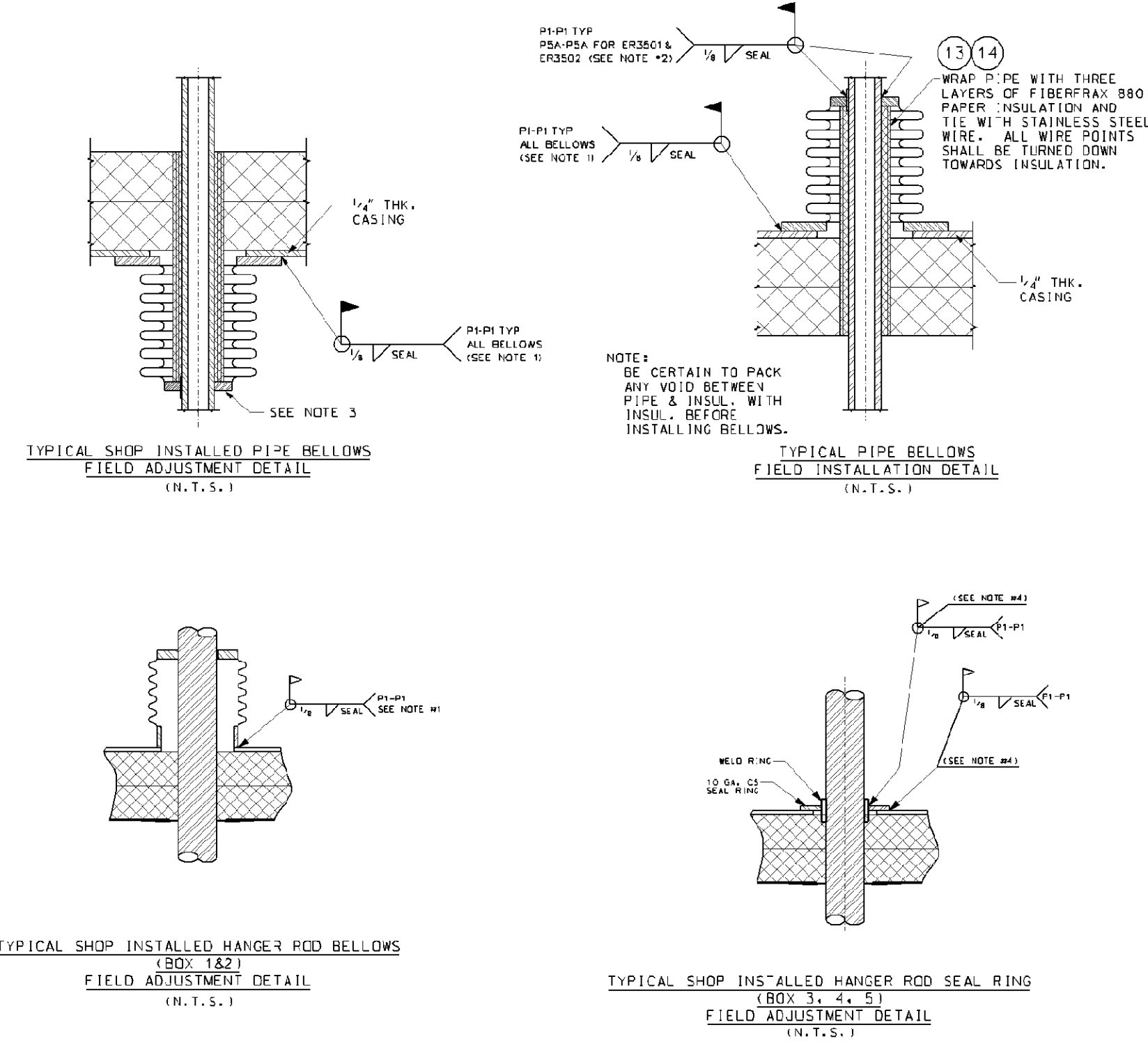
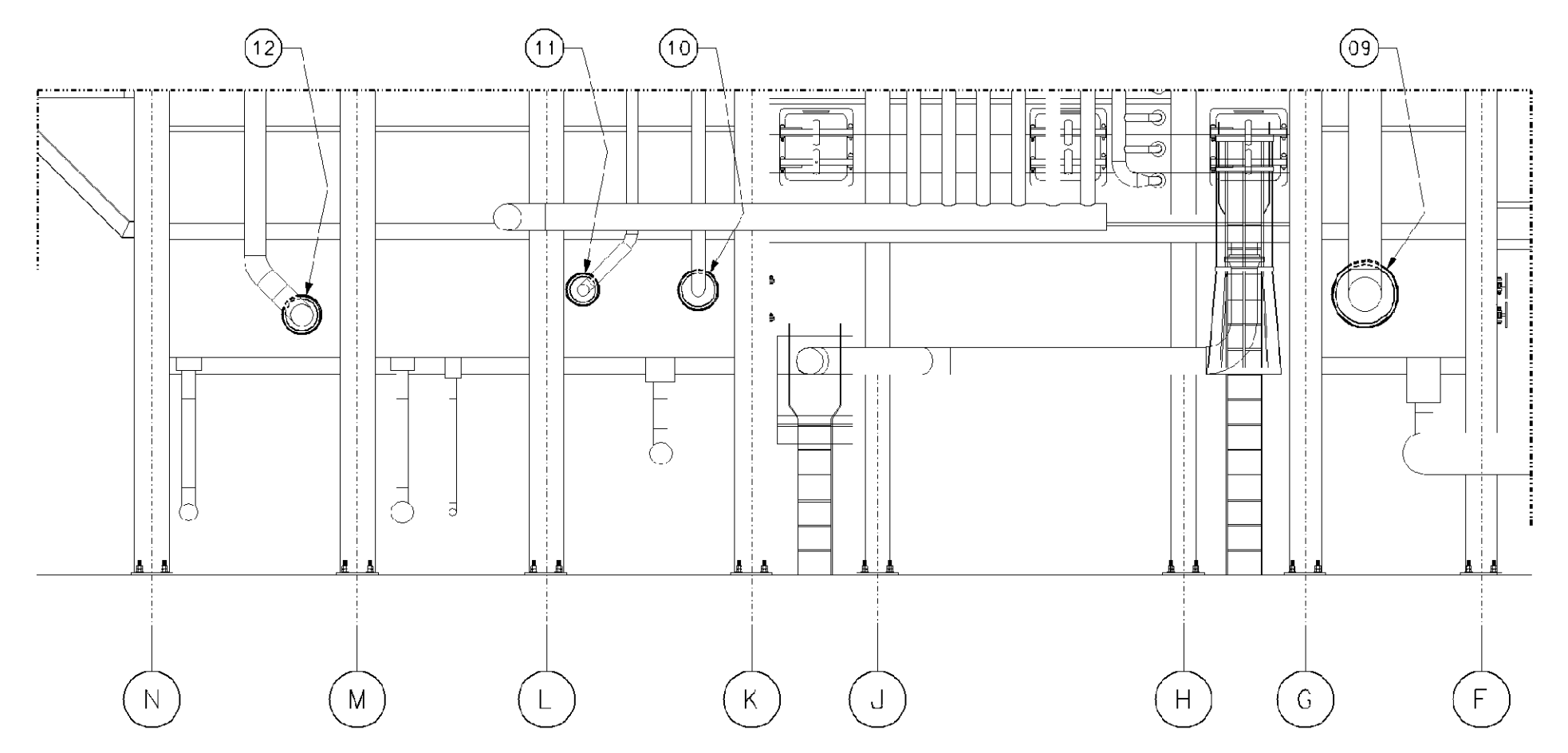
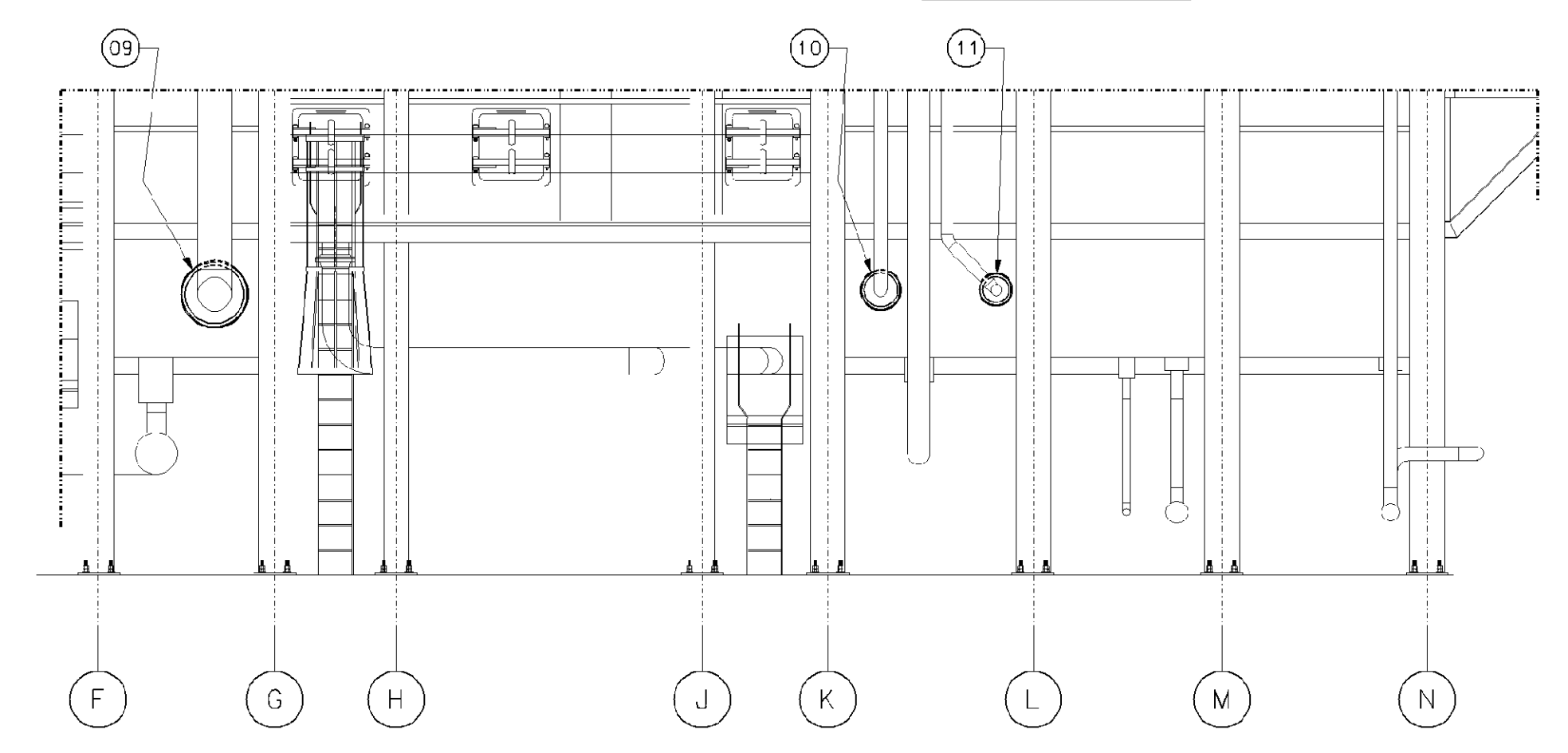
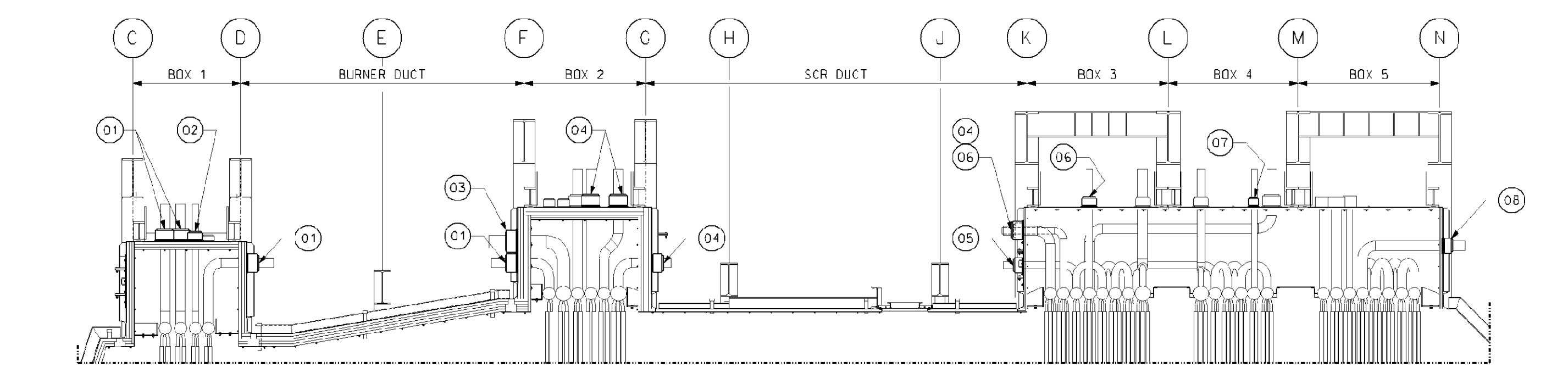
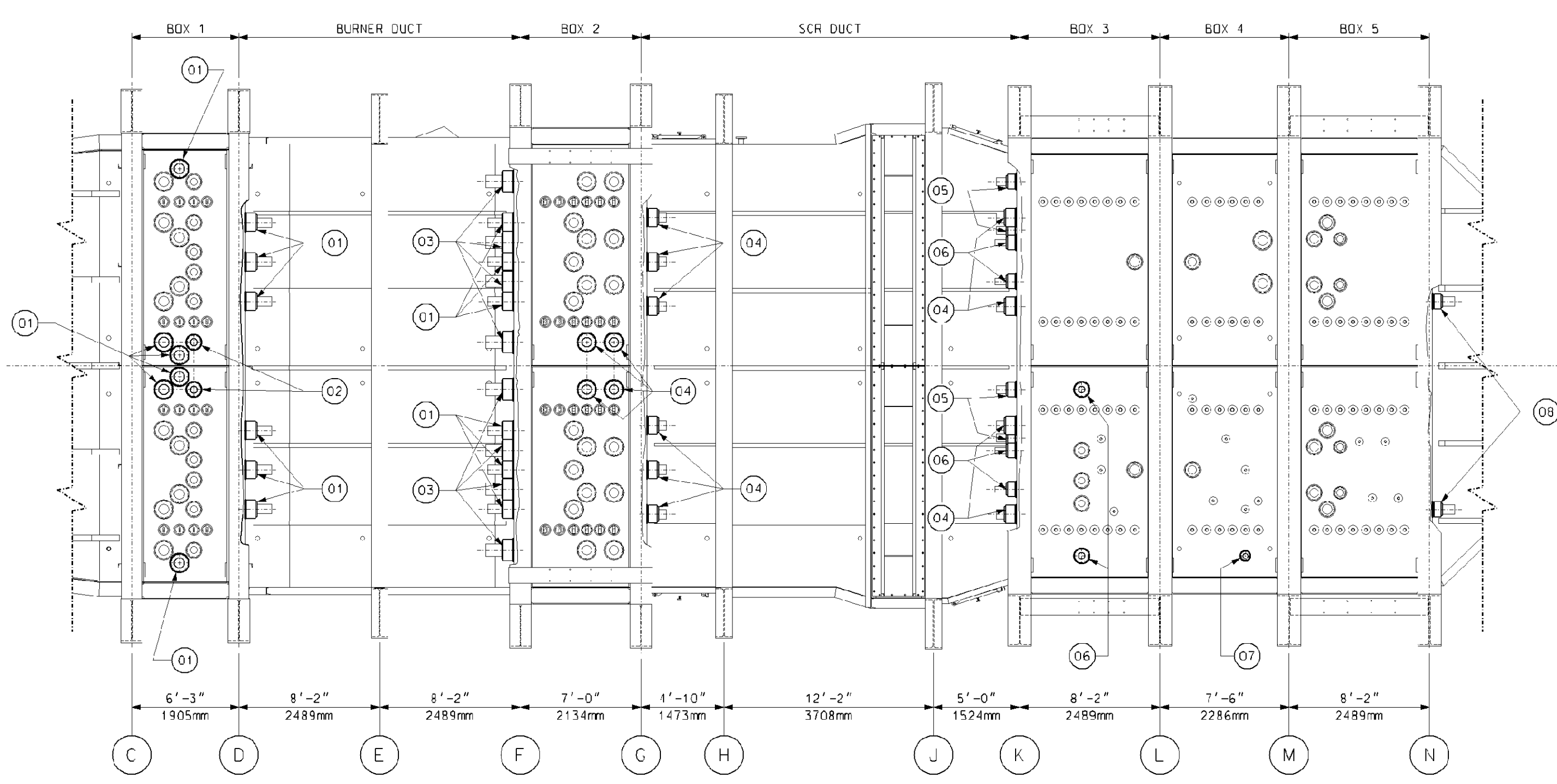
Title: **MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS**



Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-042	00

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
 Release for manufacture



BILL OF MATERIALS

MATERIAL LIST - FABRICATION

PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
		N/A	

MATERIAL LIST - ERECTION (BY VPI)

PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
01	18	BELLOWS, PT. No. V-1008-8.5-7.13	-
02	2	BELLOWS, PT. No. V-808-7-5	-
03	8	BELLOWS, PT. No. V-1208-8.5-8.75	-
04	14	BELLOWS, PT. No. V-1008-8.5-6.75	-
05	4	BELLOWS, PT. No. V-808-7-5.69	-
06	6	BELLOWS, PT. No. V-808-7-4.63	-
07	1	BELLOWS, PT. No. V-511-6.5-3.63	-
08	2	BELLOWS, PT. No. V-808-7-6.75	-
09	2	BELLOWS, PT. No. V-X-2009-37.5-16.5	-
10	2	BELLOWS, PT. No. V-1618-17-6.75	-
11	2	BELLOWS, PT. No. V-1215-14-5.69	-
12	1	BELLOWS, PT. No. V-1611-11-10.88	-
13	480	50 FT OF 1/8" THK. FIBERFRAX 880	-
14	160	FT OF STAINLESS STEEL WIRE	-

- PART NUMBERS ARE TO HAVE PREFIX "ER35" FOR EXAMPLE, "01" WOULD BE "ER3501"
- GENERAL NOTES:**
- ENSURE BELLOWS ARE POSITIONED CONCENTRIC TO PIPE/ROD BEFORE SEAL WELDING TO CASING. REMOVE SHOP TACK WELDS AND REPOSITION AFTER MODULE AND PIPING ADJUSTMENTS.
 - ENSURE BELLOWS ARE AT CORRECT OVERALL LENGTH PRIOR TO SEAL WELDING PIPE TO BELLOWS.
 - DRAIN SCREWS TO BE REMOVED DURING ERECTION AND REINSTALLED AFTER HYDRO/BEFORE START-UP.
 - ENSURE SEAL RING IS POSITIONED CONCENTRIC TO THE ROD BEFORE SEAL WELDING TO THE CASING. REMOVE TACK WELDS AND REPOSITION AFTER MODULE ADJUSTMENTS.
 - BELLOWS SOFT COVERS ARE NOT TO BE REMOVED UNTIL JUST PRIOR TO START-UP. COVERS MUST REMAIN IN PLACE THROUGHOUT ERECTION TO PROTECT AGAINST WELD SPATTER, ARCING CAUSED BY EXPOSED WELD CABLES AND LIGHT MECHANICAL DAMAGE.
 - QUANTITIES LISTED IN BILL OF MATERIAL ARE FOR (1) UNIT ONLY. (1) UNIT TOTAL REQUIRED.

REFERENCE DRAWINGS:

Rev.	Description	Date	Drawn	Chk'd.	Appr.
0	FIRST ISSUE	09/11/06	Sudd	BP	DP

Revisions

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Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Voigt Power Project 17424

Title: **FIELD CONNECTIONS FIELD INSTALLED & FIELD ADJUSTED BELLOWS ER35**

Scale: 3/8" = 1'-0"

Internal Drawing Status: **FOR RECORD** Size: **D** Drawing No.: **017424-ERND-120** Rev.: **00**

NO EXCEPTIONS NOTED
 Release for manufacture

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.



INSTRUCTIONS AND PROCEDURES

Vogt Power International, Inc. • 4000 Dupont Circle, Suite 400 • Louisville, Kentucky 40207

LINE NUMBER LIST

For

Treasure Coast Combined Cycle Plant

FOR

Vogt Power International Job 17424
Utility Engineering / Florida Municipal Power Agency

Vogt Power Document No. 017424-ICNA-001

Prepared by: Tom Fabiani
Product Engineer

Reviewed by: Max Bradley
Project Engineer

Approved by: Mark Fisher
Manager of Staff & Project Engineering

<u>Rev.</u>	<u>Date</u>	<u>Engineer</u>	<u>Comments</u>
0	3/28/06	Tom Fabiani	Original Issue
1	8/11/06	Tom Fabiani	General Revisions per (P&ID Rev 3)

Date:
3/28/06

Approved:
M. Fisher

LINE NUMBER LIST

Number:
017424-ICNA-001
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INSTRUCTIONS AND PROCEDURES

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1.0. DESCRIPTION OF LINE DESIGNATIONS

(Note: Line List is sorted by Line Number, and correlates to P&ID 017424-ICND-001 through 006 Rev 3.)

1.1 Line Number

Format: 11-AAA-L-XBBBC-DEF-Y

11 indicates Power Block 1, Unit 1 and is common for all components.

AAA = Customer System Identifiers

FWA Boiler Feed Water
FWC Condensate
SGA Steam Generator
CCF Selective Catalytic Reduction
SGF Boiler Vents & Drains
SGG HP Steam
SGH LP Steam
SGI Hot Reheat Steam
SGJ IP Steam / Cold Reheat Steam

L = Indicates Line Number

X = Indicates Unit Number (Always "1")

BBB = System Identifier Block Numbers

600-699 = High Pressure System
700-799 = Intermediate Pressure and Cold Reheat Systems
800-899 = Low Pressure System
900-929 = Hot Reheat System
930-949 = SCR / CO System
950-959 = Exhaust Gas System
960-999 = Supplemental Firing (Duct Burner) System

C = Letter Identifier for Parallel or Redundant Piping & Equipment

D = Pressure Class Identifier

A = 4500#
B = 2500#
C = 1500#
D = 900#
E = 600#
G = 300#
H = 150#
X = No Class Required (Non Pressure Part)

Date:

3/28/06

Approved:

M. Fisher

LINE NUMBER LIST

Number:

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INSTRUCTIONS AND PROCEDURES

Vogt Power International, Inc. • 4000 Dupont Circle, Suite 400 • Louisville, Kentucky 40207

E = Material Type Identifier

- A = SA-335 P-91
- B = SA-335 P-22
- C = SA-335 P-11
- D = SA-106 Grade B
- E = SA-106 Grade C
- G = A-312 Type 316 SS
- H = A-312 Type 316H SS
- J = A-312 Type 304 SS
- K = A-312 Type 304H SS

F = Code Class Identifier

- K = ASME Section I (Section I Jurisdiction/Tech - Boiler Proper)
- H = ASME Section I (includes Section I Jurisdiction/ASME B31.1 Tech. - Boiler External Piping)
- D = ASME B31.1
- M = ASME Section VIII
- T = ASME B31.3
- X = Non-Code/Non Pressure Retaining

Y = Nominal Pipe Size

1.2 **Insulation**

The insulation thickness is provided based on Calcium Silicate insulation as specified in the Utility Engineering specifications. Insulation thicknesses are calculated based on at ambient temperature of 75 F, wind speed of 2 mph, and emissivity of 0.09 to result in skin temperature of 140 F, and is based on line size and design temperature.

Date:
3/28/06

Approved:
M. Fisher

LINE NUMBER LIST

Number:
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Line_Tag	Cust_Tag	Service	Spec	Size1	Schedule	Pipe_Matl	Sys	D_Press_PSIG	D_Temp_F	Insul_Thk	PID_File	Notes
L-1601	11-SGG-1601	HPSH OUTLET FEEDER	BAH	4	160	SA -335 P91	HP	2363	1066	4.5	017424-ICND-002-03	
L-1602	11-SGG-1602	HPSH OUTLET START UP VENT	BAH	6	160	SA-335 P91	HP	2363	1066	4.5	017424-ICND-002-03	
L-1603	11-SGG-1603	HPSH START UP VENT OUTLET	EBD	6	80	SA-335 P22	HP	930	992	5	017424-ICND-002-03	
L-1604	11-SGG-1604	HPSH OUTLET SAFETY VALVE	BAH	2.5	SPECIAL	SA-335 P91	HP	2363	1066	4.5	017424-ICND-002-03	
L-1605	11-SGG-1605	HPSH SAFETY VALVE OUTLET	GBD	6	40	SA-335 P22	HP	342	965	4.5	017424-ICND-002-03	
L-1606	11-SGG-1606	HPSH OUTLET PRESS IND	BAH	1	80	SA-335 P91	HP	2363	1066	4.5	017424-ICND-002-03	
L-1607	11-SGG-1607	HPSH OUTLET PRESS TRANS	BAH	1	80	SA-335 P91	HP	2363	1066	3.5	017424-ICND-002-03	
L-1608A	11-SGG-1608A	HPSH STEAM SAMPLE	BHH	0.75	80	A-312 TP316H	HP	2363	1066	3.5	017424-ICND-002-03	
L-1608B	11-SGG-1608B	HPSH STEAM SAMPLE	BHH	0.75	80	A-312 TP316H	HP	2363	1066	3.5	017424-ICND-002-03	
L-1610	11-SGG-1610	HPSH X-OVER	BAK	6	160	SA -335 P91	HP	2560	1041	0	017424-ICND-002-03	
L-1611	11-SGG-1611	HPSH CROSSOVER DRAIN	BAH	2	160	SA-335 P91	HP	2560	1041	3.5	017424-ICND-002-03	
L-1612	11-SGG-1612	HPSH OUTLET	BAH	12	160	SA-335 P91	HP	2363	1066	5.5	017424-ICND-002-03	
L-1615	11-SGG-1615	HP ATTEMP FEEDER	BAK	6	120	SA -335 P91	HP	2560	1017	5	017424-ICND-002-03	
L-1616	11-FWA-1616	HP ATTEMP LOOP	BAK	12	140	SA -335 P91	HP	2560	1016	5.5	017424-ICND-002-03	
L-1618	11-SGG-1618	HP SH2 FEEDER FROM ATTEMP	BAK	6	120	SA -335 P91	HP	2560	1016	5	017424-ICND-002-03	
L-1619	11-SGG-1619	HP ATTEMP PRESSURE TRANS	BAH	1	80	SA-335 P91	HP	2560	1016	3.5	017424-ICND-002-03	
L-1620	11-SGG-1620	HP ATTEMP DRAIN POT	BAH	4	120	SA-335 P91	HP	2560	1016	4.5	017424-ICND-002-03	
L-1621	11-SGG-1621	HP ATTEMP DRAIN POT DRAIN	BAH	2	160	SA-335 P91	HP	2560	1016	3.5	017424-ICND-002-03	
L-1622	11-SGG-1622	HP ATTEMP VENT	BAH	1	80	SA-335 P91	HP	2560	1016	3.5	017424-ICND-002-03	
L-1623	11-SGG-1623	HP ATTEMP DRAIN	BAH	2	160	SA-335 P91	HP	2560	1017	3.5	017424-ICND-002-03	
L-1624A	11-SGG-1624A	HP ATTEMP DRAIN	BBD	2	80	SA-335 P22	HP	150	365	2	017424-ICND-002-03	TRANSITION BETWEEN P-91 AND CARBON STEEL
L-1624B	11-SGG-1624B	HP ATTEMP DRAIN	BDD	2	80	SA-106 Gr. B	HP	150	365	2	017424-ICND-002-03	
L-1625	11-SGG-1625	HPSH X-OVER	CBK	6	120	SA -335 P22	HP	2560	814	0	017424-ICND-002-03	
L-1626	11-SGG-1626	HPSH CROSSOVER DRAIN	CBH	2	160	SA-335 P22	HP	2560	814	3.5	017424-ICND-002-03	
L-1630	11-SGG-1630	HPSH SUPPLY	CEK	6	120	SA - 106 C	HP	2560	673	3	017424-ICND-002-03	
L-1631	11-SGG-1631	HP SAT STEAM SAMPLE	CHH	0.75	80	A-312 TP316H	HP	2560	673	2	017424-ICND-002-03	
L-1632	11-SGG-1632	HPSH OUT HYDRO CONNECTION	CEK	1	80	SA-106 Gr. C	HP	2560	673	2	017424-ICND-002-03	
L-1635	11-SGG-1635	HP DOWNCOMER	CEK	16	120	SA - 106 C	HP	2605	675	3.5	017424-ICND-002-03	
L-1636	11-SGG-1636	HPEV FEEDER	CEK	6	120	SA - 106 C	HP	2605	675	0	017424-ICND-002-03	
L-1637	11-SGG-1637	HPEV FEEDER	CEK	6	120	SA - 106 C	HP	2605	675	0	017424-ICND-002-03	
L-1638	11-SGG-1638	HPEV FEEDER	CEK	6	120	SA - 106 C	HP	2605	675	0	017424-ICND-002-03	
L-1639	11-SGG-1639	HP INTERMITTENT BLOWDOWN FRONT	CDH	2	160	SA-106 Gr. B	HP	2830	675	3	017424-ICND-002-03	
L-1640	11-SGG-1640	HP DOWNCOMER	CEK	6	120	SA - 106 C	HP	2605	675	3	017424-ICND-002-03	
L-1641	11-SGG-1641	HPEV FEEDER	CEK	4	160	SA - 106 C	HP	2605	675	0	017424-ICND-002-03	
L-1642	11-SGG-1642	HPEV FEEDER	CEK	4	160	SA - 106 C	HP	2605	675	0	017424-ICND-002-03	
L-1643	11-SGG-1643	HP INTERMITTENT BLOWDOWN REAR	CDH	2	160	SA-106 Gr. B	HP	2830	675	3	017424-ICND-002-03	
L-1644	11-SGG-1644	HP EVAP RISER	CEK	4	120	SA - 106 C	HP	2605	675	3	017424-ICND-002-03	
L-1645	11-SGG-1645	HP EVAP RISER	CEK	6	120	SA - 106 C	HP	2605	675	3	017424-ICND-002-03	
L-1646	11-SGG-1646	HP EVAP RISER COLLECTION	CEK	10	120	SA - 106 C	HP	2605	675	3.5	017424-ICND-002-03	
L-1647	11-SGG-1647	HP EVAP RISER	CEK	6	120	SA - 106 C	HP	2605	675	3	017424-ICND-002-03	
L-1648	11-SGG-1648	HP EVAP RISER	CEK	6	120	SA - 106 C	HP	2605	675	3	017424-ICND-002-03	
L-1649	11-SGG-1649	HP EVAP RISER	CEK	6	120	SA - 106 C	HP	2605	675	3	017424-ICND-002-03	
L-1650	11-FWA-1650	HP ATTEMP SPRAYWATER	BDD	2	160	SA-106 Gr.B	HP	3475	360	1.5	017424-ICND-002-03	
L-1651A	11-FWA-1651A	HP ATTEMP SPRAYWATER	BBH	2	160	SA-335 P22	HP	3475	360	1.5	017424-ICND-002-03	TRANSITION BETWEEN P-91 AND CARBON STEEL
L-1651B	11-FWA-1651B	HP ATTEMP SPRAYWATER	BAH	2	160	SA-335 P91	HP	2560	1017	3.5	017424-ICND-002-03	
L-1652A	11-FWA-1652A	HP ATTEMP SPRAY FLOW TRANS	BDD	0.75	80	SA-106 Gr. B	HP	3475	360	1.5	017424-ICND-002-03	
L-1652B	11-FWA-1652B	HP ATTEMP SPRAY FLOW TRANS	BDD	0.75	80	SA-106 Gr. B	HP	3475	360	1.5	017424-ICND-002-03	
L-1653	11-FWA-1653	HP ATTEMP SPRAY PRESS IND	BDD	1	80	SA-106 Gr. B	HP	3475	360	1.5	017424-ICND-002-03	
L-1654	11-FWA-1654	HP ATTEMP SPRAYWATER DRAIN	BDD	1	80	SA-106 Gr. B	HP	3475	360	1.5	017424-ICND-002-03	
L-1660A	11-FWA-1660A	HP ECON INLET	BEH	10	125	SA-106 Gr. C	HP	3475	673	3.5	017424-ICND-002-03	
L-1660B	11-FWA-1660B	HP ECONOMIZER INLET	BEH	10	160	SA-106 Gr. C	HP	2920	673	3.5	017424-ICND-002-03	
L-1661	11-FWA-1661	HP ECON FEEDER	BEH	5	160	SA - 106 C	HP	2920	673	3	017424-ICND-002-03	
L-1662	11-FWA-1662	HPEC INLET DRAIN	BDH	1	80	SA-106 Gr. B	HP	3325	673	2	017424-ICND-002-03	
L-1663	11-FWA-1663	HPEC INLET DRAIN	BDH	1	80	SA-106 Gr. B	HP	2920	673	2	017424-ICND-002-03	
L-1664	11-FWA-1664	HPEC INLET PRESS TRANS	BDH	1	80	SA-106 Gr. B	HP	2920	673	2	017424-ICND-002-03	
L-1665	11-FWA-1665	HP ECON INLET SAMPLE CONNECTION	BDH	1	80	SA-106 Gr. B	HP	2920	673	2	017424-ICND-002-03	
L-1666	11-FWA-1666	HP ECON INLET PRESSURE IND	BDH	1	80	SA-106 Gr. B	HP	2920	673	2	017424-ICND-002-03	
L-1670A	11-FWA-1670A	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1670B	11-FWA-1670B	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1670C	11-FWA-1670C	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1670D	11-FWA-1670D	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1670E	11-FWA-1670E	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1670F	11-FWA-1670F	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1670G	11-FWA-1670G	HPEC X-OVER	CEK	5	120	SA - 106 C	HP	2695	673	0	017424-ICND-002-03	
L-1671	11-FWA-1671	HPEC OUTLET FEEDER	CEK	5	120	SA - 106 C	HP	2695	673	3	017424-ICND-002-03	
L-1672	11-FWA-1672	HPEC OUTLET	CEK	10	120	SA - 106 C	HP	2695	673	3.5	017424-ICND-002-03	
L-1674A	11-FWA-1674A	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	

Line_Tag	Cust_Tag	Service	Spec	Size1	Schedule	Pipe_Matl	Sys	D_Press_PSIG	D_Temp_F	Insul_Thk	PID_File	Notes
L-1674B	11-FWA-1674B	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1674C	11-FWA-1674C	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1674D	11-FWA-1674D	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1674E	11-FWA-1674E	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1674F	11-FWA-1674F	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1674G	11-FWA-1674G	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1674H	11-FWA-1674H	HPEC MODULE VENT	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1675	11-FWA-1675	HPEC MODULE VENT	BDH	2	160	SA-106 Gr. B	HP	2695	673	3	017424-ICND-002-03	
L-1676A	11-FWA-1676A	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676B	11-FWA-1676B	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676C	11-FWA-1676C	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676D	11-FWA-1676D	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676E	11-FWA-1676E	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676F	11-FWA-1676F	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676G	11-FWA-1676G	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676H	11-FWA-1676H	HPEC MODULE DRAIN	BDH	1	80	SA-106 Gr. B	HP	2695	673	2	017424-ICND-002-03	
L-1676J	11-FWA-1676J	HPEC DRAIN COLLECTION	BDH	2	160	SA-106 Gr. B	HP	2695	673	3	017424-ICND-002-03	
L-1676K	11-FWA-1676K	HPEC DRAIN COLLECTION	BDH	2	160	SA-106 Gr. B	HP	2695	673	3	017424-ICND-002-03	
L-1677A	11-SGG-1677A	HP CONTINUOUS BLOW DOWN	CDH	1	80	SA-106 Gr. B	HP	2605	675	2	017424-ICND-002-03	
L-1677B	11-SGG-1677B	HP CONTINUOUS BLOW DOWN	CDD	1	80	SA-106 Gr. B	HP	2605	675	2	017424-ICND-002-03	
L-1678	11-SGG-1678	HP DRUM WATER SAMPLE	CDD	0.75	80	SA-106 Gr. B	HP	2605	675	2	017424-ICND-002-03	
L-1680A	11-SGG-1680A	HP DRUM LEVEL GAUGE	CDH	1.5	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1680B	11-SGG-1680B	HP DRUM LEVEL GAUGE	CDH	1.5	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1681A	11-SGG-1681A	HP DRUM LEVEL GAUGE	CDH	1.5	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1681B	11-SGG-1681B	HP DRUM LEVEL GAUGE	CDH	1.5	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1682A	11-SGG-1682A	HP DRUM LEVEL TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1682B	11-SGG-1682B	HP DRUM LEVEL TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1682C	11-SGG-1682C	HP DRUM LEVEL TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1682D	11-SGG-1682D	HP DRUM LEVEL TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1682E	11-SGG-1682E	HP DRUM LEVEL TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1682F	11-SGG-1682F	HP DRUM LEVEL TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1683A	11-SGG-1683A	HP DRUM WATER COLUMN DRAIN	CDH	0.75	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1683B	11-SGG-1683B	HP DRUM LEVEL GAUGE DRAIN	CDH	0.5	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1684A	11-SGG-1684A	HP DRUM WATER COLUMN DRAIN	CDH	0.75	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1684B	11-SGG-1684B	HP DRUM LEVEL GAUGE DRAIN	CDH	0.5	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1685	11-SGG-1685	HP DRUM PRESSURE TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1686	11-SGG-1686	HP DRUM PRESS IND	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1687	11-SGG-1687	HP DRUM SAFETY VALVE #1	CDH	2.5	SPECIAL	SA-106 Gr. B	HP	2560	673	3	017424-ICND-002-03	
L-1688	11-SGG-1688	HP DRUM SAFETY VALVE OUTLET	HDD	6	40	SA-106 Gr. B	HP	665	500	2.5	017424-ICND-002-03	
L-1689	11-SGG-1689	HP DRUM SAFETY VALVE #2	CDH	2.5	SPECIAL	SA-106 Gr. B	HP	2560	673	3	017424-ICND-002-03	
L-1690	11-SGG-1690	HP DRUM SAFETY VALVE OUTLET	HDD	6	40	SA-106 Gr. B	HP	665	500	2.5	017424-ICND-002-03	
L-1691	11-SGG-1691	HP DRUM VENT	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1692	11-SGG-1692	HP DRUM N2	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1693	11-SGG-1693	HP DRUM PRESSURE IND	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1694	11-SGG-1694	HP DRUM PRESS TRANS	CDH	1	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1695B	11-SGG-1695B	HP DRUM PRESS TEST	CDH	0.75	80	SA-106 Gr. B	HP	2560	673	2	017424-ICND-002-03	
L-1696	11-SGG-1696	HP DRUM CHEM FEED	CDH	1	80	SA-106 Gr. B	HP	2605	673	2	017424-ICND-002-03	
L-1701	11-SGJ-1701	IP SH OUTLET FEEDER	EDH	4	40	SA-106 Gr. B	IP	730	665	2.5	017424-ICND-003-03	
L-1702	11-SGJ-1702	IPSH OUTLET START UP VENT	EDH	4	40	SA-106 Gr. B	IP	730	665	3	017424-ICND-003-03	
L-1703	11-SGJ-1703	IPSH START UP VENT OUTLET	HDD	4	40	SA-106 Gr. B	IP	730	665	3	017424-ICND-003-03	
L-1704	11-SGJ-1704	IPSH OUTLET SAFETY VALVE	EDH	1.5	SPECIAL	SA-106 Gr. B	IP	730	665	2	017424-ICND-003-03	
L-1705	11-SGJ-1705	IPSH SAFETY VALVE OUTLET	HDD	3	40	SA-106 Gr. B	IP	140	597	2	017424-ICND-003-03	
L-1706A	11-SGJ-1706A	IPSH OUTLET PRESS IND	EDH	1	80	SA-106 Gr. B	IP	730	665	2.5	017424-ICND-003-03	
L-1707	11-SGJ-1707	IPSH OUTLET PRESS TRANS	EDH	1	80	SA-106 Gr. B	IP	730	665	2.5	017424-ICND-003-03	
L-1710	11-SGJ-1710	IPSH OUTLET	EDD	6	40	SA - 106 B	IP	730	665	2.5	017424-ICND-002-03	
L-1711A	11-SGJ-1711A	IPSH OUTLET FLOW TRANS	EDD	0.5	80	SA-106 Gr. B	IP	730	665	2.5	017424-ICND-003-03	
L-1711B	11-SGJ-1711B	IPSH OUTLET FLOW TRANS	EDD	0.5	80	SA-106 Gr. B	IP	730	665	2.5	017424-ICND-003-03	
L-1712	11-SGJ-1712	IPSH OUTLET	EDH	6	40	SA-106 Gr. B	IP	730	665	2.5	017424-ICND-003-03	
L-1715	11-SGJ-1715	COLD RH INLET	EDD	18	XS	SA-106 Gr. C	RH	670	723	4	017424-ICND-005-03	
L-1716	11-SGJ-1716	COLD REHEAT FEEDER	EDD	8	40	SA - 106 B	RH	670	723	3.5	017424-ICND-005-03	
L-1717	11-SGJ-1717	COLD REHEAT SAFETY VALVE #1	EDD	6	SPECIAL	SA-106 Gr. B	RH	670	723	3	017424-ICND-005-03	
L-1718	11-SGJ-1718	COLD REHEAT SAFETY VALVE OUTLET	HDD	14	40	SA-106 Gr. B	RH	139	605	3.5	017424-ICND-005-03	
L-1719	11-SGJ-1719	COLD REHEAT SAFETY VALVE #2	EDD	6	SPECIAL	SA-106 Gr. B	RH	670	723	3	017424-ICND-005-03	
L-1720	11-SGJ-1720	COLD REHEAT SAFETY VALVE OUTLET	HDD	14	40	SA-106 Gr. B	RH	139	605	3.5	017424-ICND-005-03	
L-1721	11-SGJ-1721	COLD RH INLET HYDRO	EDD	1	80	SA-106 Gr. B	RH	670	723	2	017424-ICND-005-03	
L-1725	11-SGJ-1725	IPSH MODULE DRAIN	EDH	2	80	SA-106 Gr. B	IP	730	665	3	017424-ICND-003-03	
L-1730	11-SGJ-1730	IPSH SUPPLY	EDK	4	40	SA - 106 B	IP	730	510	2	017424-ICND-003-03	

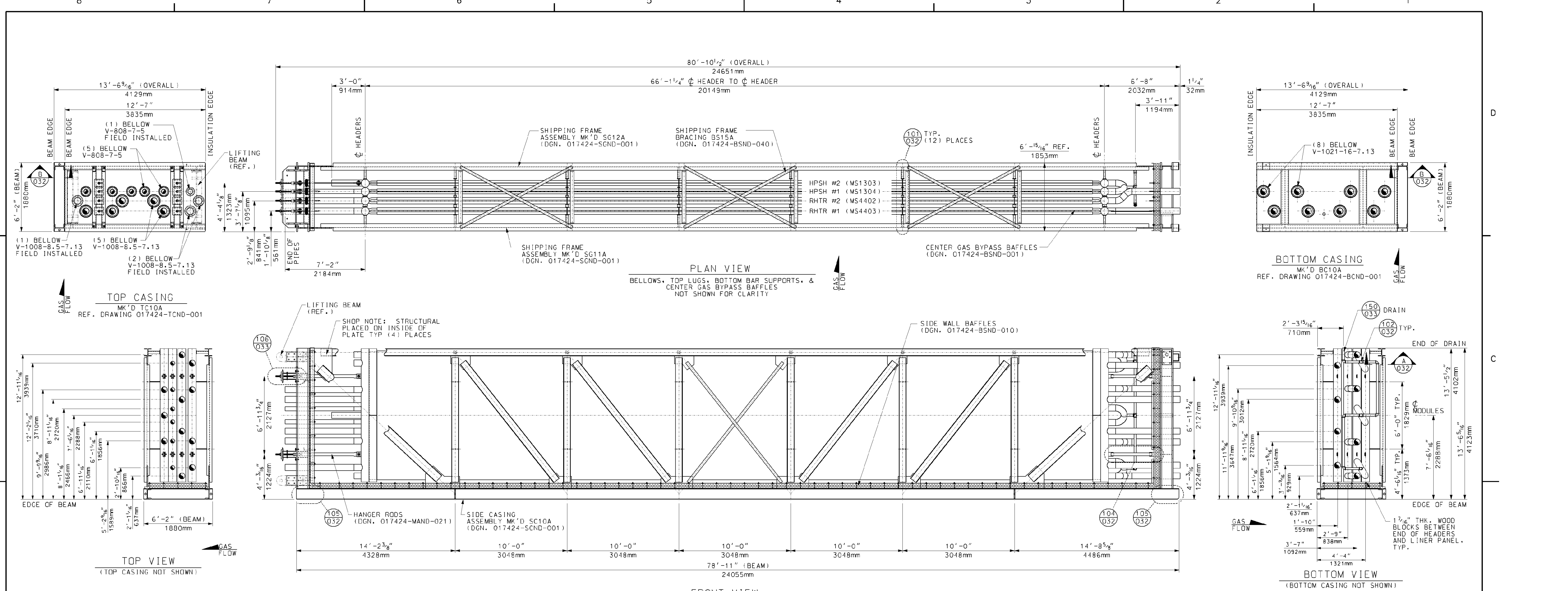
Line_Tag	Cust_Tag	Service	Spec	Size1	Schedule	Pipe_Matl	Sys	D_Press_PSIG	D_Temp_F	Insul_Thk	PID_File	Notes
L-1731	11-SGJ-1731	IP SAT STEAM SAMPLE	EHH	0.75	80	A-312 TP316H	IP	730	510	2	017424-ICND-003-03	
L-1732	11-SGJ-1732	IPSH HYDRO CONNECTION	EDK	1	80	SA-106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1735	11-SGJ-1735	IP DOWNCOMER	EDK	5	40	SA - 106 B	IP	780	518	2	017424-ICND-003-03	
L-1736	11-SGJ-1736	IPEV FEEDER	EDK	3	40	SA-106 Gr. B	IP	780	518	2	017424-ICND-003-03	
L-1737	11-SGJ-1737	IPEV FEEDER	EDK	3	40	SA - 106 B	IP	780	518	2	017424-ICND-003-03	
L-1738	11-SGJ-1738	IP EVAP RISER	ECK	4	40	SA -335 P11	IP	780	518	2	017424-ICND-003-03	
L-1739	11-SGJ-1739	IP EVAP RISER	ECK	3	40	SA -335 P11	IP	780	518	2	017424-ICND-003-03	
L-1740	11-SGJ-1740	IP EVAP RISER HEADER	ECK	6	40	SA -335 P11	IP	780	518	2.5	017424-ICND-003-03	
L-1741	11-SGJ-1741	IP EVAP RISER HEADER	ECK	5	40	SA-335 P11	IP	780	518	2.5	017424-ICND-003-03	
L-1742	11-SGJ-1742	IP INTERMITTENT BLOWDOWN	EDH	2	80	SA-106 Gr. B	IP	975	518	2	017424-ICND-003-03	
L-1750	11-FWA-1750	IP ATTEMP SPRAY	DDD	2	80	SA - 106 B	RH	1330	360	1.5	017424-ICND-005-03	
L-1751	11-FWA-1751	RH ATTEMP SPRAY	CBH	2	80	SA-335 P22	RH	670	1026	3.5	017424-ICND-005-03	
L-1752A	11-FWA-1752A	RH ATTEMP SPRAY FLOW TRANS	DDD	0.75	80	SA-106 Gr. B	RH	1330	360	1.5	017424-ICND-005-03	
L-1752B	11-FWA-1752B	RH ATTEMP SPRAY FLOW TRANS	DDD	0.75	80	SA-106 Gr. B	RH	1330	360	1.5	017424-ICND-005-03	
L-1753	11-FWA-1753	RH ATTEMP SPRAY PRESS TRANS	DDD	1	80	SA-106 Gr. B	RH	1330	360	1.5	017424-ICND-005-03	
L-1754	11-FWA-1754	RH ATTEMP SPRAY DRAIN	DDD	1	80	SA-106 Gr. B	RH	1330	360	1.5	017424-ICND-005-03	
L-1755	11-FWA-1755	RH ATTEMP SPRAY DRAIN	CBH	4	80	SA-335 P22	RH	670	1026	3.5	017424-ICND-005-02	NOT REQUIRED DUE TO PIPE ROUTING
L-1760	11-FWA-1760	IP ECON INLET	DDH	3	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1762	11-FWA-1762	IPEC INLET DRAIN	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1763	11-FWA-1763	IPEC INLET DRAIN	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1764	11-FWA-1764	IPEC FEED PRESS IND	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1765	11-FWA-1765	IP FEEDWATER SAMPLE CONNECTION	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1766	11-FWA-1766	IP ECON INLET PRESSURE TRANS	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1769A	11-FWA-1769A	IP ECONOMIZER WATER SV INLET	DDH	1.5	SPECIAL	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1769B	11-FWA-1769B	IP ECONOMIZER WATER SV DISCHARGE	HDD	2	80	SA-106 Gr. B	IP	40	286	1.5	017424-ICND-003-03	IN CUSTOMER SCOPE, CHANGED SIZE PER SV VENDOR
L-1770	11-FWA-1770	IP ECON CROSSOVER	DDK	3	80	SA - 106 B	IP	1330	582	0	017424-ICND-003-03	
L-1771A	11-FWA-1771A	IPEC OUTLET FEEDER	DDH	3	80	SA - 106 B	IP	1555	582	2	017424-ICND-003-03	
L-1771B	11-FWA-1771B	IPEC OUTLET FEEDER	EDK	3	40	SA-106 Gr. B	IP	780	518	2	017424-ICND-003-03	
L-1772	11-FWA-1772	FUEL GAS HEATER	DDH	2	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1773	11-FWA-1773	IPEC INLET PRESS TRANS	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1774	11-FWA-1774	IP ECON VENT	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1776	11-FWA-1776	IPEC MODULE DRAIN	DDH	1	80	SA-106 Gr. B	IP	1555	582	2	017424-ICND-003-03	
L-1777	11-SGJ-1777	IP DRUM SAMPLE	EDH	0.75	80	SA-106 Gr. B	IP	780	518	2	017424-ICND-003-03	
L-1780A	11-SGJ-1780A	IP DRUM LEVEL GAUGE	EDH	1.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1780B	11-SGJ-1780B	IP DRUM LEVEL GAUGE	EDH	1.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1781A	11-SGJ-1781A	IP DRUM LEVEL GAUGE	EDH	1.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1781B	11-SGJ-1781B	IP DRUM LEVEL GAUGE	EDH	1.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1782A	11-SGJ-1782A	IP DRUM LEVEL TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1782B	11-SGJ-1782B	IP DRUM LEVEL TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1782C	11-SGJ-1782C	IP DRUM LEVEL TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1782D	11-SGJ-1782D	IP DRUM LEVEL TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1782E	11-SGJ-1782E	IP DRUM LEVEL TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1782F	11-SGJ-1782F	IP DRUM LEVEL TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1783A	11-SGJ-1783A	IP DRUM WATER COLUMN DRAIN	EDH	0.75	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1783B	11-SGJ-1783B	IP DRUM LEVEL GAUGE DRAIN	EDH	0.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1784A	11-SGJ-1784A	IP DRUM WATER COLUMN DRAIN	EDH	0.75	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1784B	11-SGJ-1784B	IP DRUM LEVEL GAUGE DRAIN	EDH	0.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1785	11-SGJ-1785	IP DRUM PRESSURE TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1786	11-SGJ-1786	IP DRUM PRESS IND	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1787	11-SGJ-1787	IP DRUM SAFETY VALVE #1	EDH	1.5	SPECIAL	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1788	11-SGJ-1788	IP DRUM SAFETY VALVE OUTLET	HDD	4	40	SA 106 Gr. B	IP	171	497	2.5	017424-ICND-003-03	
L-1789	11-SGJ-1789	IP DRUM SAFETY VALVE #2	EDH	1.5	SPECIAL	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1790	11-SGJ-1790	IP DRUM SAFETY VALVE OUTLET	HDD	4	40	SA 106 Gr. B	IP	171	497	2.5	017424-ICND-003-03	
L-1791	11-SGJ-1791	IP DRUM VENT	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1792	11-SGJ-1792	IP DRUM N2	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1793	11-SGJ-1793	IP DRUM PRESSURE IND	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1794	11-SGJ-1794	IP DRUM PRESS TRANS	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1795	11-SGJ-1795	IP DRUM PRESS TEST	EDH	0.75	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1796	11-SGJ-1796	IP DRUM CHEM FEED	EDH	1	80	SA 106 Gr. B	IP	780	518	2	017424-ICND-003-03	
L-1797A	11-SGJ-1797A	IP CONTINUOUS BLOW DOWN	EDH	1	80	SA 106 Gr. B	IP	780	518	2	017424-ICND-003-03	
L-1797B	11-SGJ-1797B	IP CONTINUOUS BLOW DOWN	EDD	1	80	SA 106 Gr. B	IP	780	518	2	017424-ICND-003-03	
L-1798A	11-SGJ-1798A	IP PEGGING STEAM	EDH	1.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1798B	11-SGJ-1798B	IP PEGGING STEAM	EDH	6	40	SA 106 Gr. B	IP	730	510	2.5	017424-ICND-003-03	
L-1798C	11-SGJ-1798C	IP PEGGING STEAM DRAIN	EDH	1	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1799	11-SGJ-1799	IP PEGGING STEAM CV BYPASS	EDH	1.5	80	SA 106 Gr. B	IP	730	510	2	017424-ICND-003-03	
L-1801	11-SGH-1801	LPSH OUTLET FEEDER	HDH	6	40	SA - 106 B	LP	115	668	3	017424-ICND-004-03	
L-1802	11-SGH-1802	LPSH OUT START UP VENT	HDH	8	40	SA 106 Gr. B	LP	115	668	3	017424-ICND-004-03	

Line_Tag	Cust_Tag	Service	Spec	Size1	Schedule	Pipe_Matl	Sys	D_Press_PSIG	D_Temp_F	Insul_Thk	PID_File	Notes
L-1803	11-SGH-1803	LPSH SUV OUTLET	HDD	8	40	SA 106 Gr. B	LP	115	668	3	017424-ICND-004-03	
L-1804	11-SGH-1804	LPSH OUTLET SAFETY VALVE	HDH	2.5	SPECIAL	SA-106 Gr.B	LP	115	668	3	017424-ICND-004-03	
L-1805	11-SGH-1805	LPSH SAFETY VALVE OUTLET	HDD	6	40	SA 106 Gr. B	LP	115	668	3	017424-ICND-004-03	
L-1806	11-SGH-1806	LPSH OUTLET PRESS IND	HDH	1	80	SA 106 Gr. B	LP	115	668	2	017424-ICND-004-03	
L-1807	11-SGH-1807	LPSH OUTLET PRESSURE TRANS	HDH	1	80	SA 106 Gr. B	LP	115	668	2	017424-ICND-004-03	
L-1808	11-SGH-1808	LPSH OUTLET DRAIN	HDH	2	80	SA 106 Gr. B	LP	115	668	2	017424-ICND-004-03	
L-1812	11-SGH-1812	LPSH OUTLET	HDH	10	40	SA 106 Gr. B	LP	115	668	3.5	017424-ICND-004-03	
L-1830	11-SGH-1830	LPSH SUPPLY	HDK	6	40	SA - 106 B	LP	115	347	2	017424-ICND-004-03	
L-1831	11-SGH-1831	LP SAT STEAM SAMPLE	HHH	0.75	80	A312 TP316H	LP	115	347	1.5	017424-ICND-004-03	
L-1832	11-SGH-1832	LPSH HYDRO CONNECTION	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1835	11-SGH-1835	LPEV DOWNCOMER	HDK	10	40	SA - 106 B	LP	160	371	2	017424-ICND-004-03	
L-1836	11-SGH-1836	LPEV FEEDER	HDK	3.5	40	SA - 106 B	LP	160	371	1.5	017424-ICND-004-03	
L-1837	11-SGH-1837	LPEV FEEDER	HDK	5	40	SA - 106 B	LP	160	371	2	017424-ICND-004-03	
L-1838	11-SGH-1838	LPEV FEEDER	HDK	5	120	SA - 106 B	LP	160	371	2	017424-ICND-004-03	
L-1839	11-SGH-1839	LP INTERMITTENT BLOWDOWN	HDH	2	80	SA 106 Gr. B	LP	200	371	1.5	017424-ICND-004-03	
L-1840	11-SGH-1840	LP EVAP RISER	HCK	4	40	SA -335 P11	LP	160	371	1.5	017424-ICND-004-03	
L-1841	11-SGH-1841	LP EVAP RISER	HCK	6	80	SA -335 P11	LP	160	371	2	017424-ICND-004-03	
L-1842	11-SGH-1842	LP EVAP RISER	HCK	5	40	SA -335 P11	LP	160	371	2	017424-ICND-004-03	
L-1845	11-FWC-1845	RECIRC PUMP COMMON SUCTION	EEH	8	40	SA-106 Gr.C	LP	656	472	2	017424-ICND-002-03	
L-1846	11-FWC-1846	RECIRC PUMP INLET PRESS IND	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1847A	11-FWC-1847A	LP RECIRC PUMP 1001 SUCTION	EDH	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1847B	11-FWC-1847B	LP RECIRC PUMP 1002 SUCTION	EDH	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1848A	11-FWC-1848A	LP RECIRC PUMP 1001 SUCTION	EDD	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1848B	11-FWC-1848B	LP RECIRC PUMP 1002 SUCTION	EDD	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1849A	11-FWC-1849A	LP RECIRC PUMP 1001 SUCTION DRAIN	EDD	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1849B	11-FWC-1849B	LP RECIRC PUMP 1002 SUCTION DRAIN	EDD	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1850A	11-FWC-1850A	LP RECIRC PUMP 1001 STRAINER DRAIN	EDD	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1850B	11-FWC-1850B	LP RECIRC PUMP 1002 STRAINER DRAIN	EDD	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1852A	11-FWC-1852A	RECIRC PUMP 1001 OUTLET	EDD	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1852B	11-FWC-1852B	RECIRC PUMP 1002 OUTLET	EDD	6	40	SA-106 Gr.B	LP	656	472	2	017424-ICND-004-03	
L-1853	11-FWC-1853	RECIRC PUMP OUTLET	EDH	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1853A	11-FWC-1853A	RECIRC PUMP OUTLET PRESS IND	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1853B	11-FWC-1853B	RECIRC PUMP OUTLET PRESS IND	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1856	11-FWC-1856	RECIRC PUMP OUTLET PRESS TRANS	EDD	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1857A	11-FWC-1857A	RECIRC FLOW TRANS	EDD	0.5	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1857B	11-FWC-1857B	RECIRC FLOW TRANS	EDD	0.5	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1858A	11-FWC-1858A	RECIRC CV BYPASS DRAIN	EDD	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1859A	11-FWC-1859A	RECIRC PUMP 1001 MINIMUM FLOW	EDD	3	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1859B	11-FWC-1859B	RECIRC PUMP 1002 MINIMUM FLOW	EDD	3	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1859C	11-FWC-1859C	RECIRC PUMP 1001 MINIMUM FLOW	EDH	3	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1859D	11-FWC-1859D	RECIRC PUMP 1002 / COMMON MIN FLOW	EDH	3	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1860	11-FWC-1860	LP ECON INLET	EEH	8	40	SA-106 Gr.C	LP	656	472	2	017424-ICND-004-03	
L-1861	11-FWC-1861	LP ECON FEEDER	EDH	6	40	SA - 106 B	LP	656	472	2	017424-ICND-004-03	
L-1862	11-FWC-1862	LPEC INLET DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1863	11-FWC-1863	LPEC INLET DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1864	11-FWC-1864	LP ECON INLET PRESSURE TRANS	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1865	11-FWC-1865	LP FEEDWATER BYPASS	EDH	6	40	SA - 106 B	LP	656	472	2	017424-ICND-004-03	
L-1866	11-FWC-1866	LP ECON INLET PRESSURE TRANS	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1868	11-FWC-1868	LP ECON BYPASS DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1869A	11-FWC-1869A	LP ECONOMIZER WATER SV INLET	EDH	4	SPECIAL	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1869B	11-FWC-1869B	LP ECONOMIZER WATER SV DISCHARGE	HDD	6	40	SA 106 Gr. B	LP	65	312	2	017424-ICND-004-03	BY CUSTOMER
L-1870A	11-FWC-1870A	LPEC X-OVER	EDK	6	40	SA - 106 B	LP	525	472	0	017424-ICND-004-03	
L-1870B	11-FWC-1870B	LPEC X-OVER	EDK	6	40	SA - 106 B	LP	525	472	0	017424-ICND-004-03	
L-1870C	11-FWC-1870C	LPEC X-OVER	EDK	6	40	SA - 106 B	LP	525	472	0	017424-ICND-004-03	
L-1870D	11-FWC-1870D	LPEC X-OVER	EDK	6	40	SA - 106 B	LP	525	472	0	017424-ICND-004-03	
L-1871	11-FWC-1871	LPEC OUT FEEDER	EDH	6	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1872A	11-FWC-1872A	LP ECON OUTLET	EEH	8	40	SA 106 Gr. C	LP	656	472	2	017424-ICND-004-03	
L-1872B	11-FWC-1872B	LP ECON OUTLET	HDK	8	40	SA 106 Gr. B	LP	160	371	2	017424-ICND-004-03	
L-1873	11-FWC-1873	LPEC OUTLET PRESSURE TRANS	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1874A	11-FWC-1874A	LPEC MODULE VENT	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1874B	11-FWC-1874B	LPEC MODULE VENT	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1874C	11-FWC-1874C	LPEC MODULE VENT	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1874D	11-FWC-1874D	LPEC MODULE VENT	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1876A	11-FWC-1876A	LPEC MODULE DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1876B	11-FWC-1876B	LPEC MODULE DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1876C	11-FWC-1876C	LPEC MODULE DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1876D	11-FWC-1876D	LPEC MODULE DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	

Line_Tag	Cust_Tag	Service	Spec	Size1	Schedule	Pipe_Matl	Sys	D_Press_PSIG	D_Temp_F	Insul_Thk	PID_File	Notes
L-1876E	11-FWC-1876E	LPEC MODULE DRAIN	EDH	1	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1876F	11-FWC-1876F	LPEC MODULE DRAIN	EDH	2	80	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	
L-1878A	11-SGH-1878A	BFW PUMP RECIRC	HDH	4	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	EXTRA CONNECTION PER CUSTOMER REQUEST
L-1878B	11-SGH-1878B	BFW PUMP RECIRC	HDH	4	40	SA 106 Gr. B	LP	656	472	2	017424-ICND-004-03	EXTRA CONNECTION PER CUSTOMER REQUEST
L-1879	11-SGH-1879	HP/IP BFW PUMP SUCTION	HDH	12	40	SA 106 Gr. B	LP	160	371	2	017424-ICND-004-03	
L-1880A	11-SGH-1880A	LP DRUM LEVEL GAUGE	HDH	1.5	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1880B	11-SGH-1880B	LP DRUM LEVEL GAUGE	HDH	1.5	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1881A	11-SGH-1881A	LP DRUM LEVEL GAUGE	HDH	1.5	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1881B	11-SGH-1881B	LP DRUM LEVEL GAUGE	HDH	1.5	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1882A	11-SGH-1882A	LP DRUM LEVEL TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1882B	11-SGH-1882B	LP DRUM LEVEL TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1882C	11-SGH-1882C	LP DRUM LEVEL TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1882D	11-SGH-1882D	LP DRUM LEVEL TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1882E	11-SGH-1882E	LP DRUM LEVEL TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1882F	11-SGH-1882F	LP DRUM LEVEL TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1883A	11-SGH-1883A	LP DRUM WATER COLUMN DRAIN	HDH	0.75	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1883B	11-SGH-1883B	LP DRUM LEVEL GAUGE DRAIN	HDH	0.5	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1884A	11-SGH-1884A	LP DRUM WATER COLUMN DRAIN	HDH	0.75	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1884B	11-SGH-1884B	LP DRUM LEVEL GAUGE DRAIN	HDH	0.5	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1885	11-SGH-1885	LP DRUM PRESSURE TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1886	11-SGH-1886	LP DRUM PRESS IND	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1887	11-SGH-1887	LP DRUM SAFETY VALVE #1	HDH	3	SPECIAL	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1888	11-SGH-1888	LP DRUM SAFETY VALVE OUTLET	HDD	8	40	SA 106 Gr. B	LP	115	347	2	017424-ICND-004-03	
L-1889	11-SGH-1889	LP DRUM SAFETY VALVE #2	HDH	4	SPECIAL	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1890	11-SGH-1890	LP DRUM SAFETY VALVE OUTLET	HDD	8	40	SA 106 Gr. B	LP	115	347	2	017424-ICND-004-03	
L-1891	11-SGH-1891	LP DRUM VENT	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1892	11-SGH-1892	LP DRUM N2	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1893A	11-SGH-1893A	LP DRUM PRESSURE IND	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1894	11-SGH-1894	LP DRUM PRESS TRANS	HDH	1	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1895	11-SGH-1895	LP DRUM PRESS TEST	HDH	0.75	80	SA 106 Gr. B	LP	115	347	1.5	017424-ICND-004-03	
L-1896	11-SGH-1896	LP DRUM CHEM FEED	HDH	1	80	SA 106 Gr. B	LP	160	371	1.5	017424-ICND-004-03	
L-1897	11-SGH-1897	LP DRUM SAMPLE	HDH	1	80	SA 106 Gr. B	LP	160	371	1.5	017424-ICND-004-03	
L-1898	11-SGH-1898	LP PEGGING STEAM	HDH	6	40	SA 106 Gr. B	LP	115	347	2	017424-ICND-002-03	
L-1899	11-SGH-1899	LP PEGGING STEAM CV BYPASS	HDH	6	40	SA 106 Gr. B	LP	115	347	2	017424-ICND-003-03	
L-1900	11-SGI-1900	HOT REHEAT OUTLET	CAD	20	60	SA -335 P91	RH	670	1066	6.5	017424-ICND-005-03	
L-1901	11-SGI-1901	RH OUTLET FEEDER	CAD	6	40	SA -335 P91	RH	670	1066	5	017424-ICND-005-03	
L-1902	11-SGI-1902	RH OUTLET FEEDER	CAD	6	40	SA -335 P91	RH	670	1066	5	017424-ICND-005-03	
L-1903	11-SGI-1903	HOT REHEAT VENT	CAD	4	80	SA 335 P91	RH	670	1066	3.5	017424-ICND-005-02	DELETED, REPLACED WITH REHEAT STARTUP VENT
L-1904	11-SGI-1904	HOT REHEAT SAFETY VALVE INLET	CAD	4	SPECIAL	SA 335 P91	RH	670	1066	4.5	017424-ICND-005-03	
L-1905	11-SGI-1905	HOT REHEAT SAFETY VALVE OUTLET	GBD	10	40	SA 335 P11	RH	180	1047	5.5	017424-ICND-005-03	
L-1906	11-SGI-1906	HOT REHEAT PRESS TRANS	CAD	1	80	SA 335 P91	RH	670	1066	3.5	017424-ICND-005-03	
L-1907	11-SGI-1907	HOT REHEAT PRESS IND	CAD	1	80	SA 335 P91	RH	670	1066	3.5	017424-ICND-005-03	
L-1908A	11-SGI-1908A	HOT REHEAT STEAM SAMPLE	CHD	0.75	80	A312 TP316H	RH	670	1066	3.5	017424-ICND-005-03	
L-1908B	11-SGI-1908B	HOT REHEAT STEAM SAMPLE	CHD	0.75	80	A312 TP316H	RH	670	1066	3.5	017424-ICND-005-03	
L-1912	11-SGI-1912	HOT REHEAT STARTUP VALVE INLET	CAD	10	40	SA 335 P91	RH	670	1066	4.5	017424-ICND-005-03	NEW LINE
L-1913	11-SGI-1913	HOT REHEAT STARTUP VALVE OUTLET	EBD	10	40	SA 335 P22	RH	315	1049	5.5	017424-ICND-005-03	NEW LINE
L-1914	11-SGI-1914	REHEAT ATTEMP FEEDER	CBK	8	80	SA -335 P22	RH	670	1026	5	017424-ICND-005-03	
L-1915	11-SGI-1915	REHEAT ATTEMP LOOP	CBK	20	100	SA -335 P22	RH	670	1026	6.5	017424-ICND-005-03	
L-1917	11-SGI-1917	REHEAT ATTEMP PRESS TRANS	CBH	1	80	SA -335 P22	RH	670	1026	3.5	017424-ICND-005-03	
L-1918	11-SGI-1918	RH ATTEMP FEEDER	CBK	6	80	SA -335 P22	RH	670	1001	5	017424-ICND-005-03	
L-1919	11-SGI-1919	RH ATTEMP FEEDER	CBK	6	80	SA -335 P22	RH	670	1001	5	017424-ICND-005-03	
L-1920	11-SGI-1920	REHEAT ATTEMP DRAIN POT	CBH	4	40	SA -335 P22	RH	670	1026	4.5	017424-ICND-005-03	
L-1921	11-SGI-1921	REHEAT ATTEMP DRAIN POT	CBH	4	40	SA -335 P22	RH	670	1001	4.5	017424-ICND-005-03	
L-1922	11-SGI-1922	REHEAT ATTEMP DRAIN	CBH	2	80	SA -335 P22	RH	670	1026	3.5	017424-ICND-005-03	
L-1923	11-SGI-1923	REHEAT ATTEMP DRAIN	CBH	2	80	SA -335 P22	RH	670	1001	3.5	017424-ICND-005-03	
L-1930	11-CCF-1930	AFCU INTERCONNECTING PIPE	HDT	12	STD	SA 106 Gr. B	SCR	15	750	3.5	017424-ICND-006-03	
L-1931	11-CCF-1931	AMMONIA HEADER	HDT	12	STD	SA 106 Gr. B	SCR	15	630	3.5	017424-ICND-006-03	
L-1932	11-CCF-1932	AMMONIA HEADER PRESS TRANS	HDT	1	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1933A	11-CCF-1933A	AMMONIA FEED	HDT	6	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-03	ADDED IN NEW DESIGN
L-1933B	11-CCF-1933B	AMMONIA FEED	HDT	6	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-03	ADDED IN NEW DESIGN
L-1933C	11-CCF-1933C	AMMONIA FEED	HDT	6	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-03	ADDED IN NEW DESIGN
L-1933D	11-CCF-1933D	AMMONIA FEED	HDT	6	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-03	ADDED IN NEW DESIGN
L-1933E	11-CCF-1933E	AMMONIA FEED	HDT	6	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-03	ADDED IN NEW DESIGN
L-1933F	11-CCF-1933F	AMMONIA FEED	HDT	6	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-03	ADDED IN NEW DESIGN
L-1933K	11-CCF-1933K	AMMONIA FEED	HDT	4	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1934A	11-CCF-1934A	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1934B	11-CCF-1934B	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	

Line_Tag	Cust_Tag	Service	Spec	Size1	Schedule	Pipe_Matl	Sys	D_Press_PSIG	D_Temp_F	Insul_Thk	PID_File	Notes
L-1934C	11-CCF-1934C	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1934D	11-CCF-1934D	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1934E	11-CCF-1934E	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1934F	11-CCF-1934F	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1934G	11-CCF-1934G	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1934H	11-CCF-1934H	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1934J	11-CCF-1934J	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1934K	11-CCF-1934K	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1935A	11-CCF-1935A	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1935B	11-CCF-1935B	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1935C	11-CCF-1935C	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1935D	11-CCF-1935D	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1935E	11-CCF-1935E	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1935F	11-CCF-1935F	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-03	
L-1935G	11-CCF-1935G	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1935H	11-CCF-1935H	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1935J	11-CCF-1935J	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1935K	11-CCF-1935K	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1936C	11-CCF-1936C	AMMONIA FEED	HDT	4	40	SA 106 Gr. B	SCR	15	630	3	017424-ICND-002-01.dgn	DELETED IN NEW DESIGN
L-1937A	11-CCF-1937A	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1937B	11-CCF-1937B	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1937C	11-CCF-1937C	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1938A	11-CCF-1938A	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1938B	11-CCF-1938B	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1938C	11-CCF-1938C	SCR FLOW ORIFICE PRESS DIFF.	HDT	0.5	80	SA 106 Gr. B	SCR	15	630	2	017424-ICND-006-01.dgn	DELETED IN NEW DESIGN
L-1947	11-SGA-1947	STACK DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	250	1.5	017424-ICND-006-03	
L-1950	11-SGA-1950	INLET DUCT PRESS TRANS	XCX	1	80	SA 335 P11	XX	15	1000	3	017424-ICND-006-03	
L-1951A	11-SGA-1951A	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1951B	11-SGA-1951B	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1952A	11-SGA-1952A	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1952B	11-SGA-1952B	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1953A	11-SGA-1953A	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1953B	11-SGA-1953B	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1954A	11-SGA-1954A	SCR DIFF PRESS TRANS	XDX	1	80	SA 106 Gr. B	XX	15	650	2	017424-ICND-006-03	
L-1954B	11-SGA-1954B	SCR DIFF PRESS TRANS	XDX	1	80	SA 106 Gr. B	XX	15	650	2	017424-ICND-006-03	
L-1955A	11-SGA-1955A	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1955B	11-SGA-1955B	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1956A	11-SGA-1956A	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1956B	11-SGA-1956B	CASING DRAIN	XDX	3	40	SA 106 Gr. B	XX	15	650	3	017424-ICND-006-03	
L-1961	11-SGA-1961	BURNER SKID MAIN GAS VENT	HDD	4	40	SA 106 Gr. B	BU	100	90	0	017424-BUXD-005-02	
L-1962A	11-SGA-1962A	BURNER MAIN GAS INTERCONN PIPING	HDD	8	40	SA 106 Gr. B	BU	100	90	0	017424-BUXD-005-02	
L-1962B	11-SGA-1962B	BURNER MAIN GAS INTERCONN PIPING	HDD	10	40	SA 106 Gr. B	BU	100	90	0	017424-BUXD-005-02	
L-1964	11-SGA-1964	BURNER SKID PILOT GAS VENT	HDD	0.75	80	SA 106 Gr. B	BU	100	90	0	017424-BUXD-005-02	
L-1965	11-SGA-1965	BURNER PILOT GAS INTERCONN PIPING	HDD	2	80	SA 106 Gr. B	BU	100	90	0	017424-BUXD-005-02	
L-1966C	11-SGA-1966C	BURNER INST AIR INTERCONN PIPING	HDD	1	80	SA 106 Gr. B	BU	150	90	0	017424-BUXD-005-02	
L-1978	11-SGA-1978	BURNER SCANNER AIR INTERCONN PIPING	HDD	3	40	SA 106 Gr. B	BU	10	90	0	017424-BUXD-005-02	
L-1986A	11-SGA-1986A	COOLING AIR TO DUCT VIEW PORT	HDD	0.5	80	SA 106 Gr. B	BU	10	90	0	017424-BUXD-005-02	
L-1986B	11-SGA-1986B	COOLING AIR TO DUCT VIEW PORT	HDD	0.5	80	SA 106 Gr. B	BU	10	90	0	017424-BUXD-005-02	
L-1986C	11-SGA-1986C	COOLING AIR TO DUCT VIEW PORT	HDD	0.5	80	SA 106 Gr. B	BU	10	90	0	017424-BUXD-005-02	
L-1986D	11-SGA-1986D	COOLING AIR TO DUCT VIEW PORT	HDD	0.5	80	SA 106 Gr. B	BU	10	90	0	017424-BUXD-005-02	
L-1989	11-SGA-1989	BURNER RISER MAIN GAS VENT	HDD	4	40	SA 106 Gr. B	BU	70	90	0	017424-BUXD-005-02	
L-1998	11-SGF-1998	DRAIN FUNNEL	XDX	2	40	SA 106 Gr. B	XX	10	250	2	017424-ICND-006-03	NEW LINE
L-1999	11-SGF-1999	DRAIN FUNNEL	XDX	4	40	SA 106 Gr. B	XX	10	250	2	017424-ICND-006-03	NEW LINE

MODULE 1



- GENERAL NOTES:**
- INSTALL 1 7/8" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
 - ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 - ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
 - APPROXIMATE ASSEMBLY WEIGHT: 143,000 LBS.
 - ALL PRESSURE PART WELDS TO BE PER ASME SECTION 1 UNLESS OTHERWISE NOTED.
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNITS IS REQ'D.

- REFERENCE DRAWINGS:**
- 017424-MAND-031 - MODULE BOX ASSEMBLY BOX #1B
 - 017424-MAND-032 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-MAND-033 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-SCND-001 - BOTTOM CASING - BOX 1A & 1B (BC10A & BC10B)
 - 017424-BSND-001 - SHOP INSTALLED HRSG HARP CENTER GAS BYPASS BAFFLES
 - 017424-BSND-010 - SIDE GAS BAFFLES (BOXES 1A THRU 5A) SHOP INSTALLED
 - 017424-BSND-040 - BOX #1 & #2 (A&B) SHIPPING FRAME BRACING ASSEMBLY (SMART)
 - 017424-EBND-111 - STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 - 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 - 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 - 017424-MAND-021 - MODULE TOP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 1 & 2
 - 017424-MSND-002 - RHTR1 - MS4403 BOX 1
 - 017424-MSND-003 - RHTR2 - MS4402 BOX 1
 - 017424-MSND-004 - HPSH1 - MS1304 BOX 1
 - 017424-MSND-005 - HPSH2 - MS1303 BOX 1
 - 017424-SCND-001 - SIDE CASING ASSEMBLY BOX 1 SC10A & SC10B
 - 017424-SGND-001 - SHIPPING FRAME BOX #1 (A & B)
 - 017424-TCND-001 - TOP CASING ASSEMBLIES TC10 (BOX 1A & 1B)

5					
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0	FIRST ISSUE	8/21/06	R.OMEN	J.D.	DP
Rev.	Description	Date	Drawn	Chkd.	Appr.

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3d WIRE PROJECTION

Scale: 1/4" = 1'-0"

Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Vogt Power Project 17424

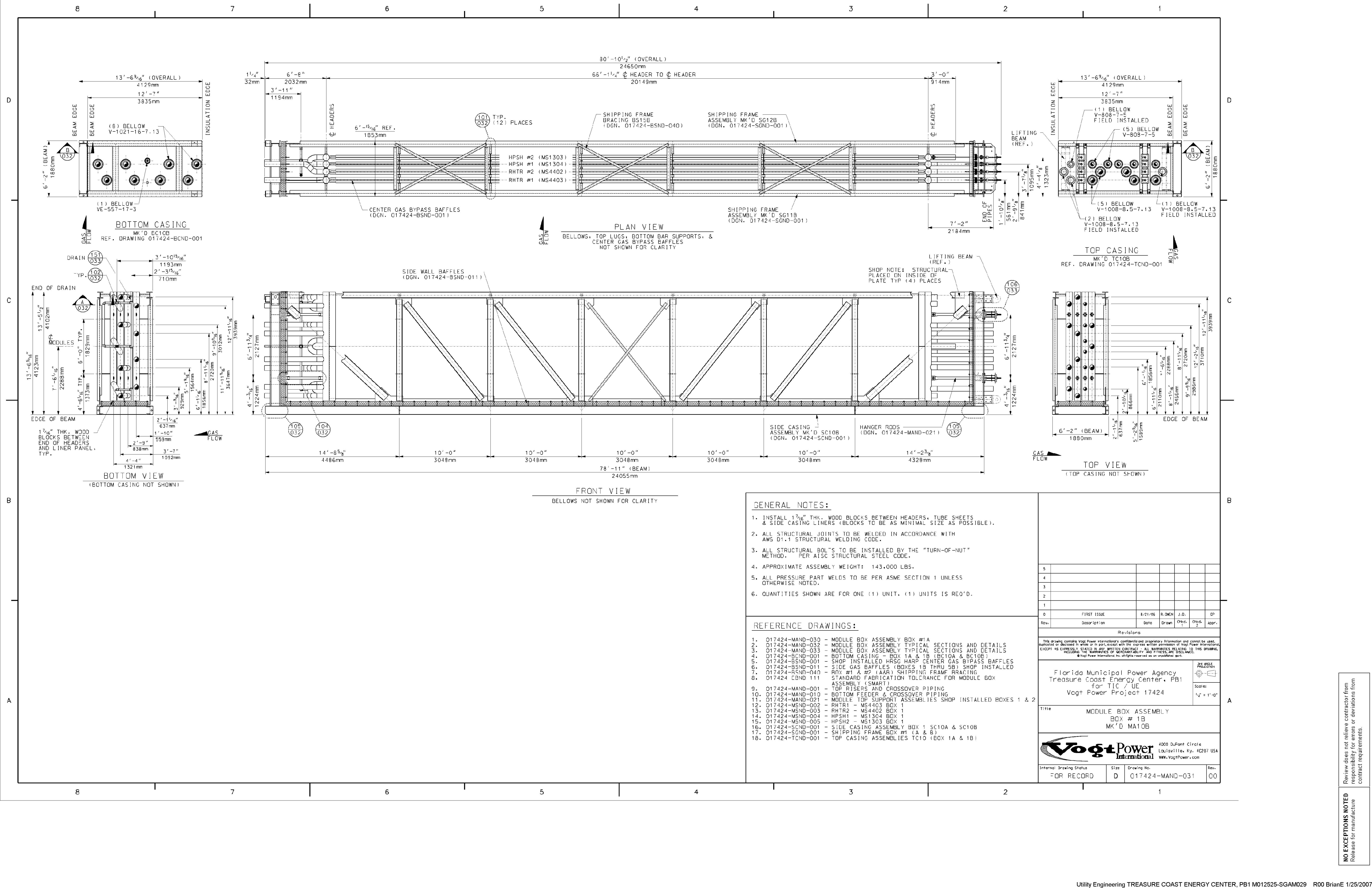
Title: MODULE BOX ASSEMBLY
 BOX # 1A
 MK'D MA10A

4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-030	00

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
 Release for manufacture



- GENERAL NOTES:**
- INSTALL 1 3/8" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
 - ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 - ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
 - APPROXIMATE ASSEMBLY WEIGHT: 143,000 LBS.
 - ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNITS IS REQ'D.

- REFERENCE DRAWINGS:**
- 017424-MAND-030 - MODULE BOX ASSEMBLY BOX #1A
 - 017424-MAND-032 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-MAND-033 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-SCND-001 - BOTTOM CASING - BOX 1A & 1B (BC10A & BC10B)
 - 017424-BSND-001 - SHOP INSTALLED HRSG HARP CENTER GAS BYPASS BAFFLES
 - 017424-BSND-011 - SIDE GAS BAFFLES (BOXES 1B THRU 5B) SHOP INSTALLED
 - 017424-BSND-040 - BOX #1 & #2 (A&R) SHIPPING FRAME BRACING STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 - 017424-BSND-111
 - 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 - 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 - 017424-MAND-021 - MODULE TOP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 1 & 2
 - 017424-MSND-002 - RHTR1 - MS4403 BOX 1
 - 017424-MSND-003 - RHTR2 - MS4402 BOX 1
 - 017424-MSND-004 - HPSH1 - MS1304 BOX 1
 - 017424-MSND-005 - HPSH2 - MS1303 BOX 1
 - 017424-SCND-001 - SIDE CASING ASSEMBLY BOX 1 SC10A & SC10B
 - 017424-SCND-001 - SHIPPING FRAME BOX #1 (A & B)
 - 017424-TCND-001 - TOP CASING ASSEMBLIES TC10 (BOX 1A & 1B)

5					
4					
3					
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1					
0	FIRST ISSUE	8/21/06	R.OMEN	J.D.	DP
Rev.	Description	Date	Drawn	Chk'd.	Appr.

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Scale: 1/2" = 1'-0"

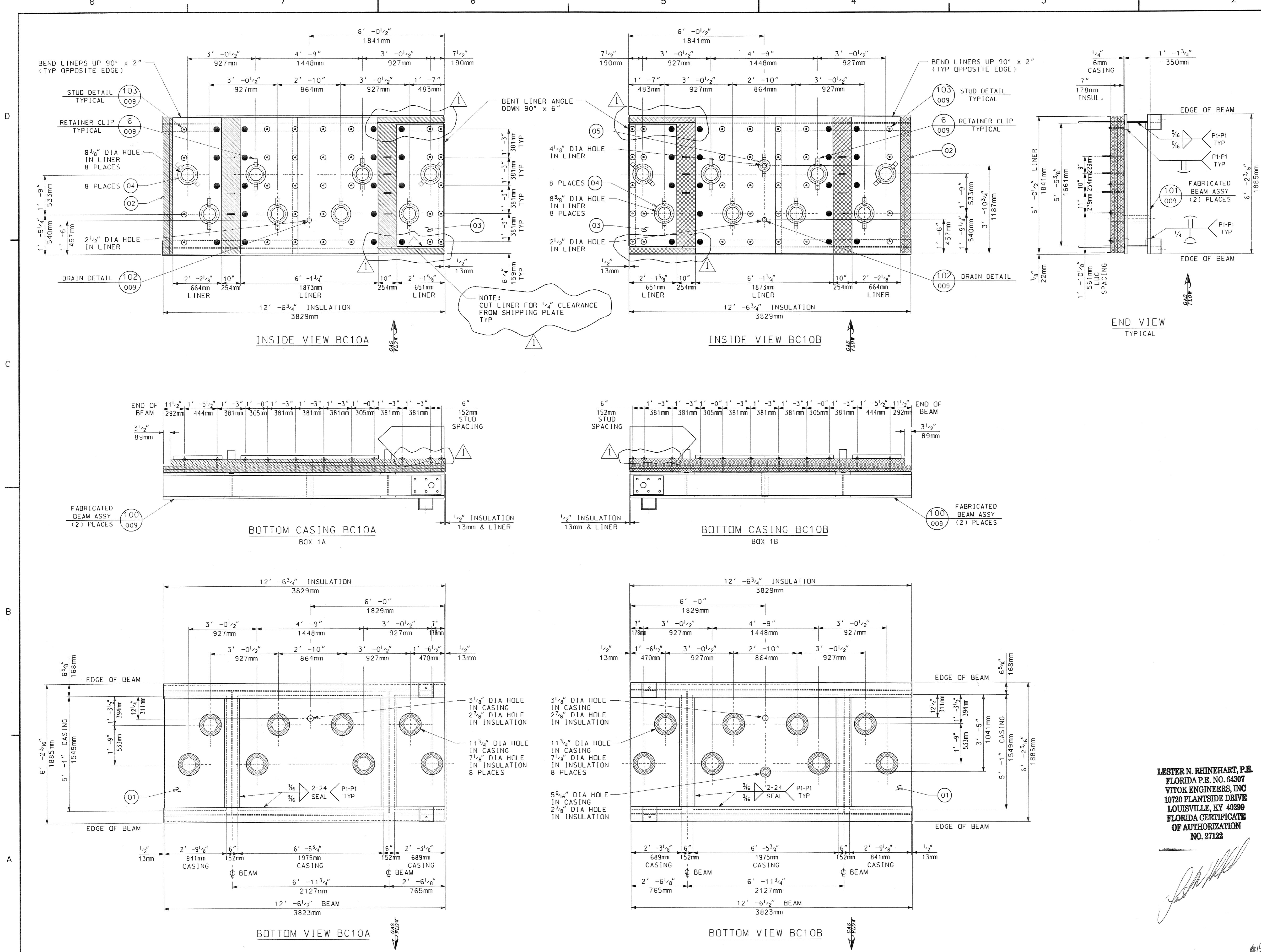
Title: MODULE BOX ASSEMBLY
 BOX # 1B
 MK'D MA10B

Internal Drawing Status: FOR RECORD | Size: D | Drawing No.: 017424-MAND-031 | Rev.: 00

4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VoigtPower.com

NO EXCEPTIONS NOTED
 Release for manufacture

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BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	117	50 FT OF PLATE, 1/4\"	JIS 3101 SS400
02	600	50 FT OF INSULATION, 2\"	CERAMIC FIBER
03	143	50 FT OF SHEET, 14 GA THK	A-240 1P409SS
04	16	SHEET, 16 GA THK, 10 3/4\"	A-240 1P409SS
05	1	SHEET, 16 GA THK, 6 1/2\"	A-240 1P409SS

PART NO. ARE TO HAVE THE PREFIX "BC". FOR EXAMPLE, "10" (ASSEMBLY) + "01" (PART NUMBER) WOULD BE PART "BC1001".

- GENERAL NOTES:**
- SEE 017424-MANC-001 FOR "EQUIPMENT SPEC FOR SHOP FABRICATED MODULE BOX ASSEMBLIES".
 - ALL WELDING TO BE DONE IN ACCORDANCE WITH LATEST STANDARDS OF AWS STANDARD D1.1
 - SEAL WELD ALL STRUCTURAL MEMBERS TO CASING AND TO EACH OTHER AS TIGHT.
 - PROVIDE A 3/4" DIA DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL BOLT HOLES ARE TO BE PUNCHED OR DRILLED.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/8" PER 1" TO GIVEN THICKNESS.
 - DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN FIELD.
 - ALL DIMENSIONS AND WELDS MARKED "TYP" APPLY TO BOX A AND B.
 - TRIM LINER AND WASHERS WITH 1/2" CLEARANCE, U.N.O. AS NECESSARY AT THE TIME OF ASSEMBLY.
 - APPROXIMATE ASSEMBLY WEIGHT: 5250 LBS PER BOX
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT, ONE (1) UNIT TOTAL REQUIRED.

REFERENCE DRAWINGS:
 017424-BCND-009 BOTTOM CASING DETAILS
 017424-EBND-103 STANDARD FABRICATION TOLERANCE FOR TOP AND BOTTOM CASINGS

M012525-SGAS006 R1
TREASURE COAST 10/1/2006

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

UTILITY ENGINEERING

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release for manufacture
 Revise and resubmit for distribution

RETURNED FOR CORRECTION
 Do not proceed
 Revise and resubmit for authorization

Rev.	Description	Date	Drawn	Chkd.	Appr.
1	REMOVED PART OF LINER PANEL	08/21/06	BP	MAS	
0	FIRST ISSUE	05/31/06	BP	RON C	LNR DP

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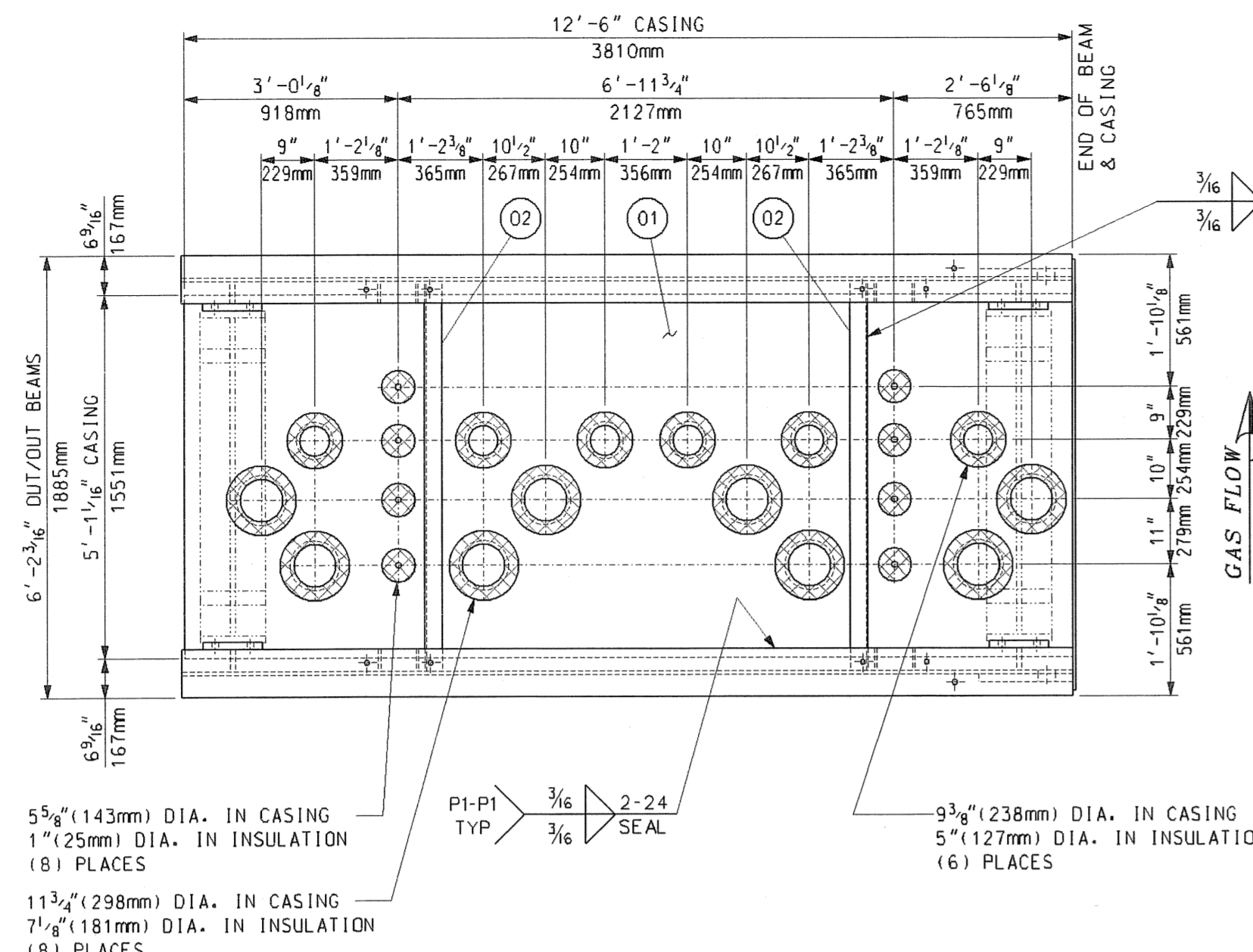
Title: **BOTTOM CASING - BOX 1A & 1B (BC10A & BC10B)**

VogtPower International
 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VogtPower.com

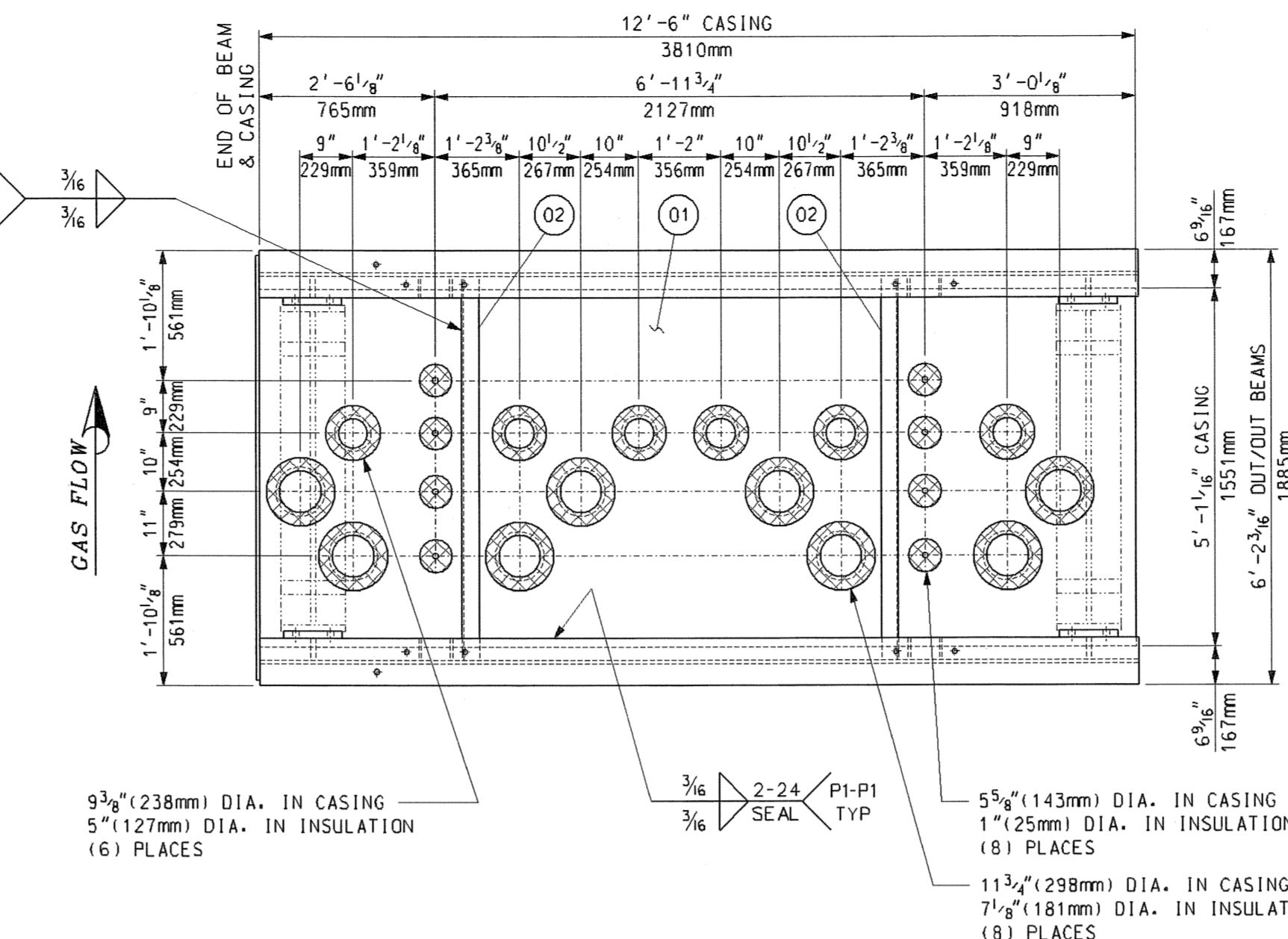
Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-BCND-001	01

LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
VITOK ENGINEERS, INC
 10720 PLANTSIDE DRIVE
 LOUISVILLE, KY 40299
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 27122

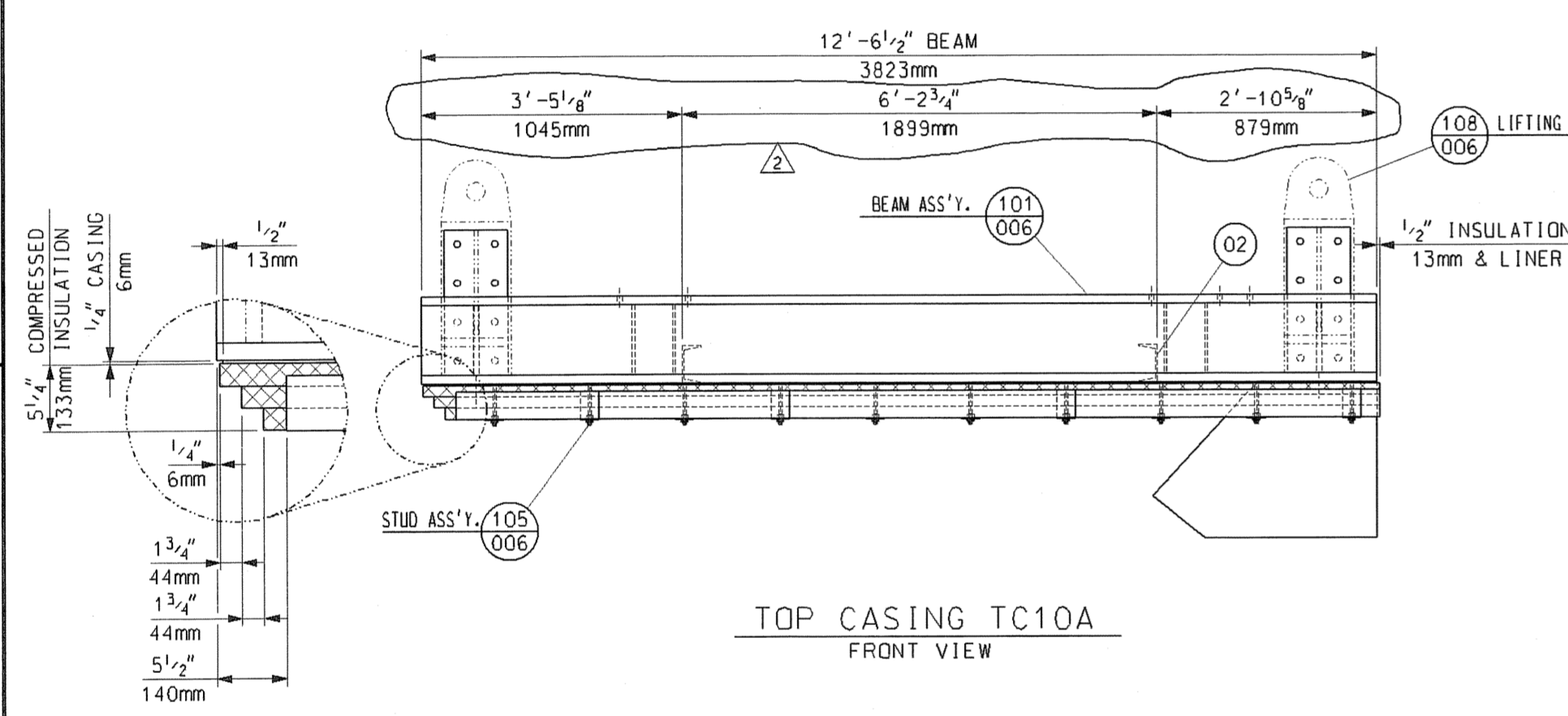
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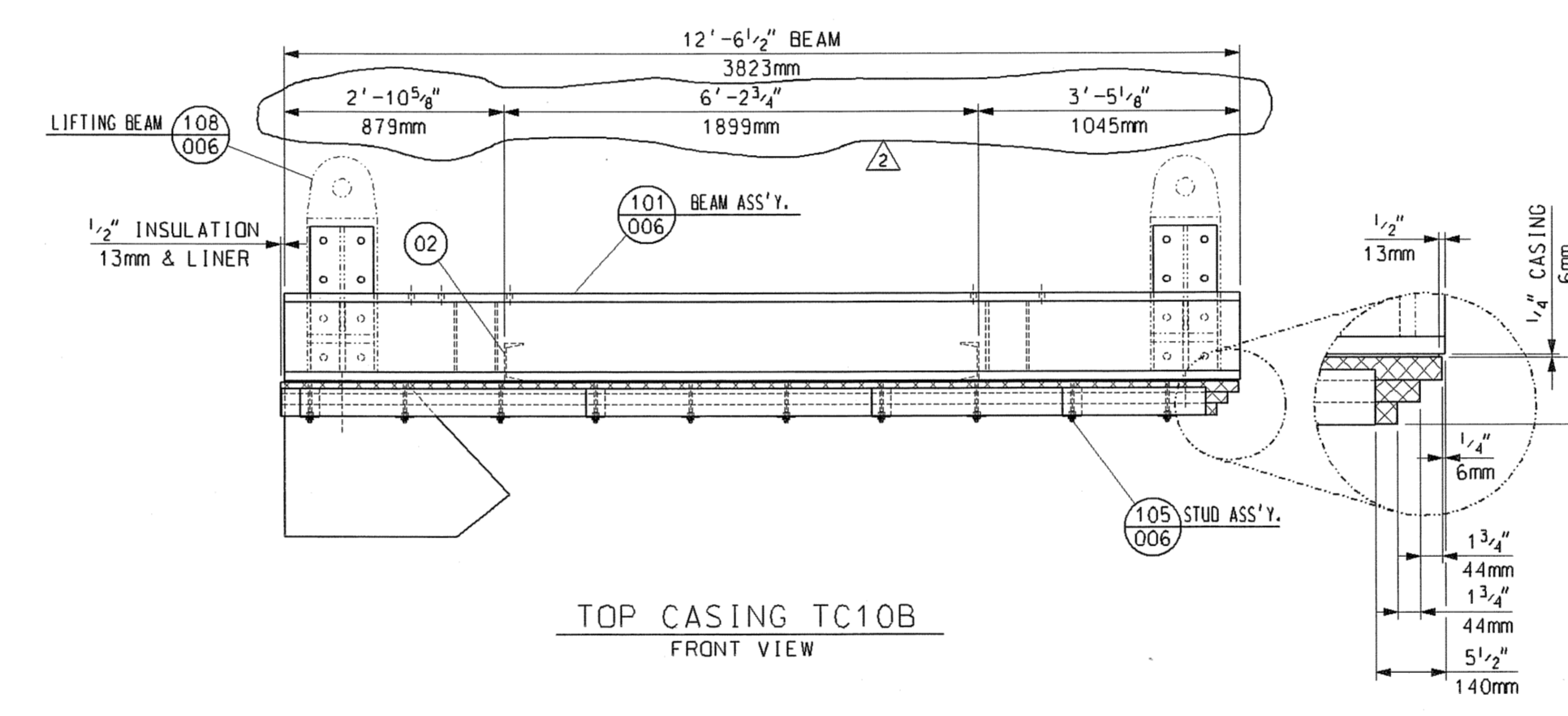
TOP CASING TC10A
PLAN VIEW



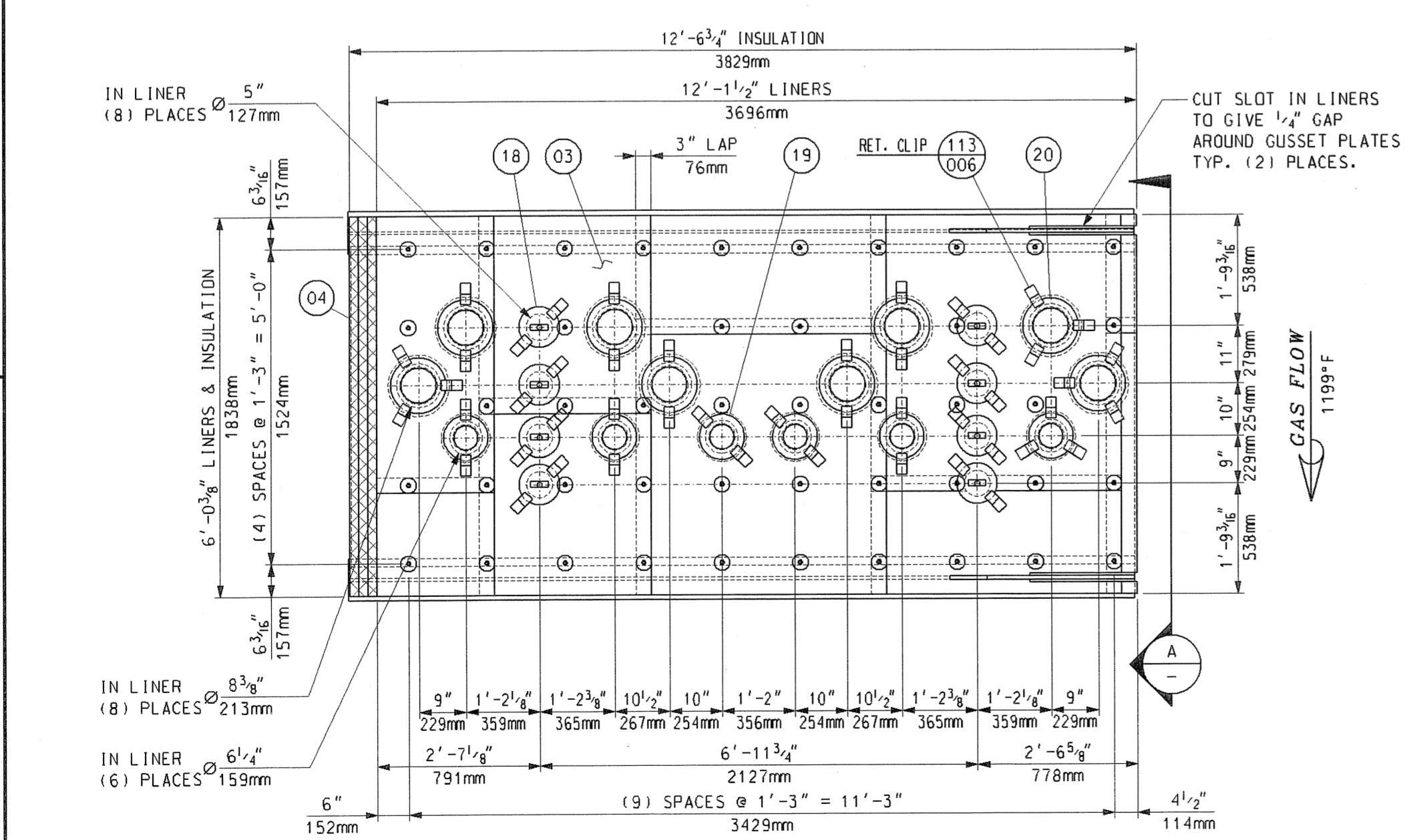
TOP CASING TC10B
PLAN VIEW



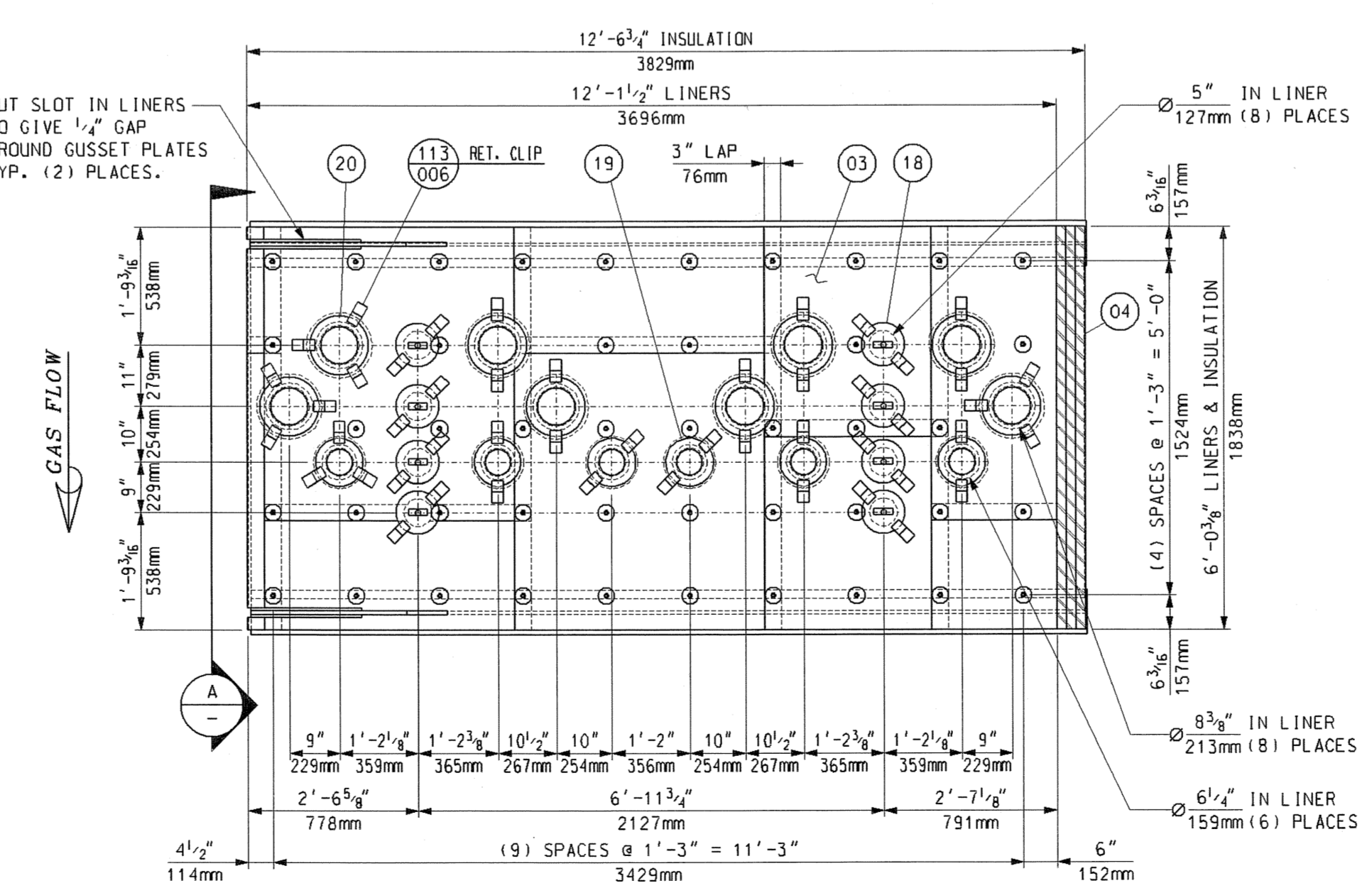
TOP CASING TC10A
FRONT VIEW



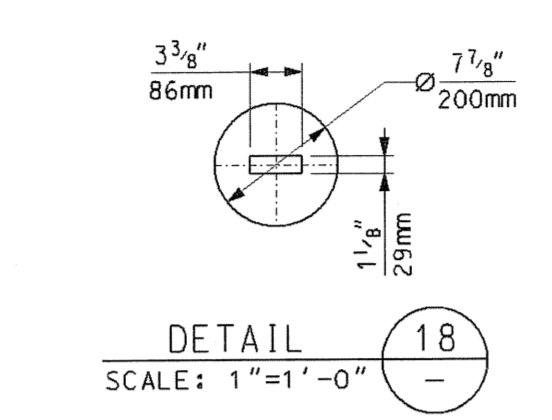
TOP CASING TC10B
FRONT VIEW



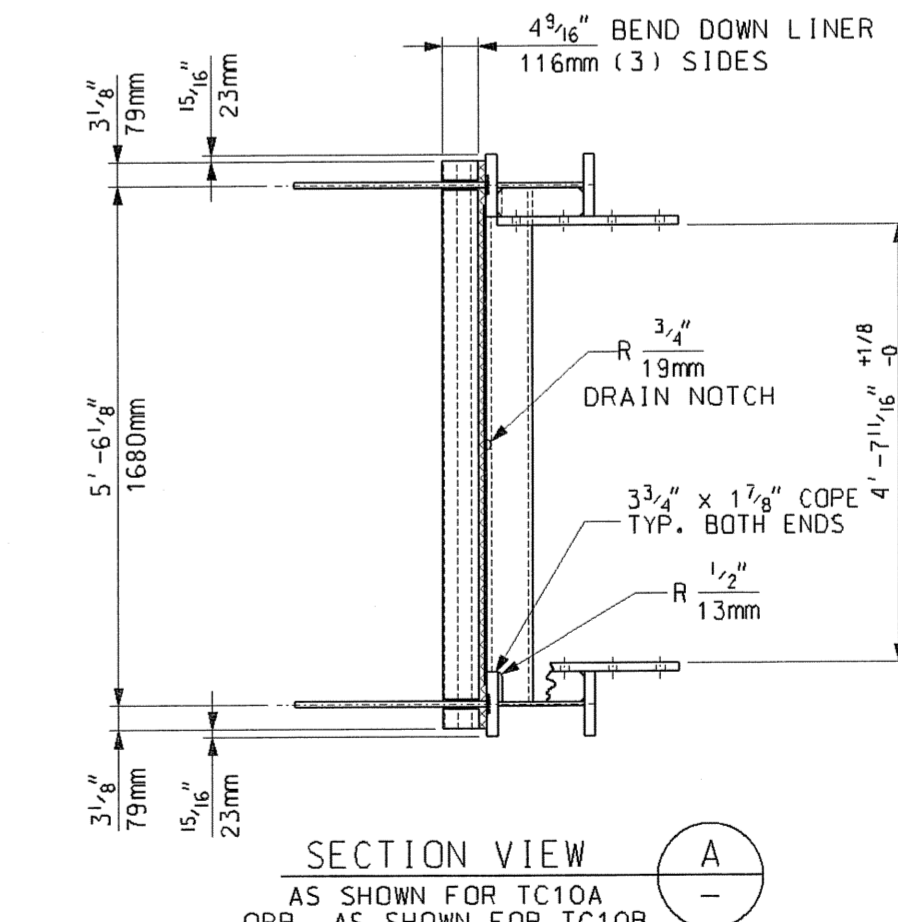
TOP CASING TC10A
INSIDE VIEW



TOP CASING TC10B
INSIDE VIEW



DETAIL 18
SCALE: 1"=1'-0"



SECTION VIEW A
AS SHOWN FOR TC10A
OPP. AS SHOWN FOR TC10B

LESTER N. RHINEHART, P.E.
FLORIDA P.E. NO. 64307
VITOK ENGINEERS, INC
10720 PLANTSIDE DRIVE
LOUISVILLE, KY 40289
FLORIDA CERTIFICATE
OF AUTHORIZATION
NO. 27122

BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	2	PLATE, 1/2" THK., 5'-1 1/8" x 12'-6"	JIS 3101-SS400	
02	4	CHANNEL, C150x75x6.5x10 x 5'-5 3/8" LG.	JIS 3101-SS400	
03	190	SO. FT. OF SHEET, 14 GA. (2mm) THK.	A-240 TP409	
04	460	SO. FT. OF INSULATION 2" THK. 1800°F 8# DENSITY	CERAMIC FIBER	
18	16	SHEET, 14 GA. (2mm) THK. DET.	A-240 TP409	
19	12	SHEET, 14 GA. (2mm) THK. 8 5/8" OD x 4 5/8" ID	A-240 TP409	
20	16	SHEET, 14 GA. (2mm) THK. 10 3/4" OD x 6 3/4" ID	A-240 TP409	
101	28W/2L	BEAM ASSEMBLY	SHT 006	
105	88	STUD DETAIL	SHT 006	
108	2	LIFTING BEAM ASSEMBLY (FIELD INSTALLED)	SHT 006	
113	96	RETAINER CLIP	SHT 006	

- PART NUMBERS TO HAVE THE PREFIX "TC10". FOR EXAMPLE PART NO. 01 WOULD BE TC1001.
- GENERAL NOTES:
- SEE 017424-TCND-001 FOR "EQUIPMENT SPECIFICATION FOR SHOP FABRICATED INTERNALLY INSULATED CASING"
 - ALL WELDING TO BE IN ACCORDANCE WITH LATEST STANDARDS OF AMERICAN WELDING SOCIETY STANDARD D1.1 USING E70XX ELECTRODES.
 - SEAL WELD ALL STRUCTURALS TO CASING AND TO EACH OTHER. ALL PRESSURE CASING TO BE SEAL WELDED GAS TIGHT.
 - ALL STEEL WORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
 - PROVIDE A 3/4" DIA. DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL BOLT HOLES ARE TO BE PUNCHED OR DRILLED.
 - TRIM LINER & WASHERS WITH 1/2" CLEARANCE AROUND BEAM LUGS AT TIME OF ASSEMBLY.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/2" PER 1" TO GIVEN THICKNESSES.
 - APPROXIMATE ASSEMBLY WEIGHT: 5,300 LBS. EA.
 - QTY. SHOWN FOR ONE (1) UNIT. ONE (1) UNIT IS REQ'D TOTAL.

REFERENCE DRAWINGS:

FYI

M012525-SGAS077 R2
TREASURE COAST 10/1/2006

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

NO EXCEPTIONS NOTED
Release for manufacture

EXCEPTIONS NOTED
Release for manufacture
Review and resubmit for distribution
RETURNED FOR CORRECTION
Do not proceed
Revise and resubmit for authorization

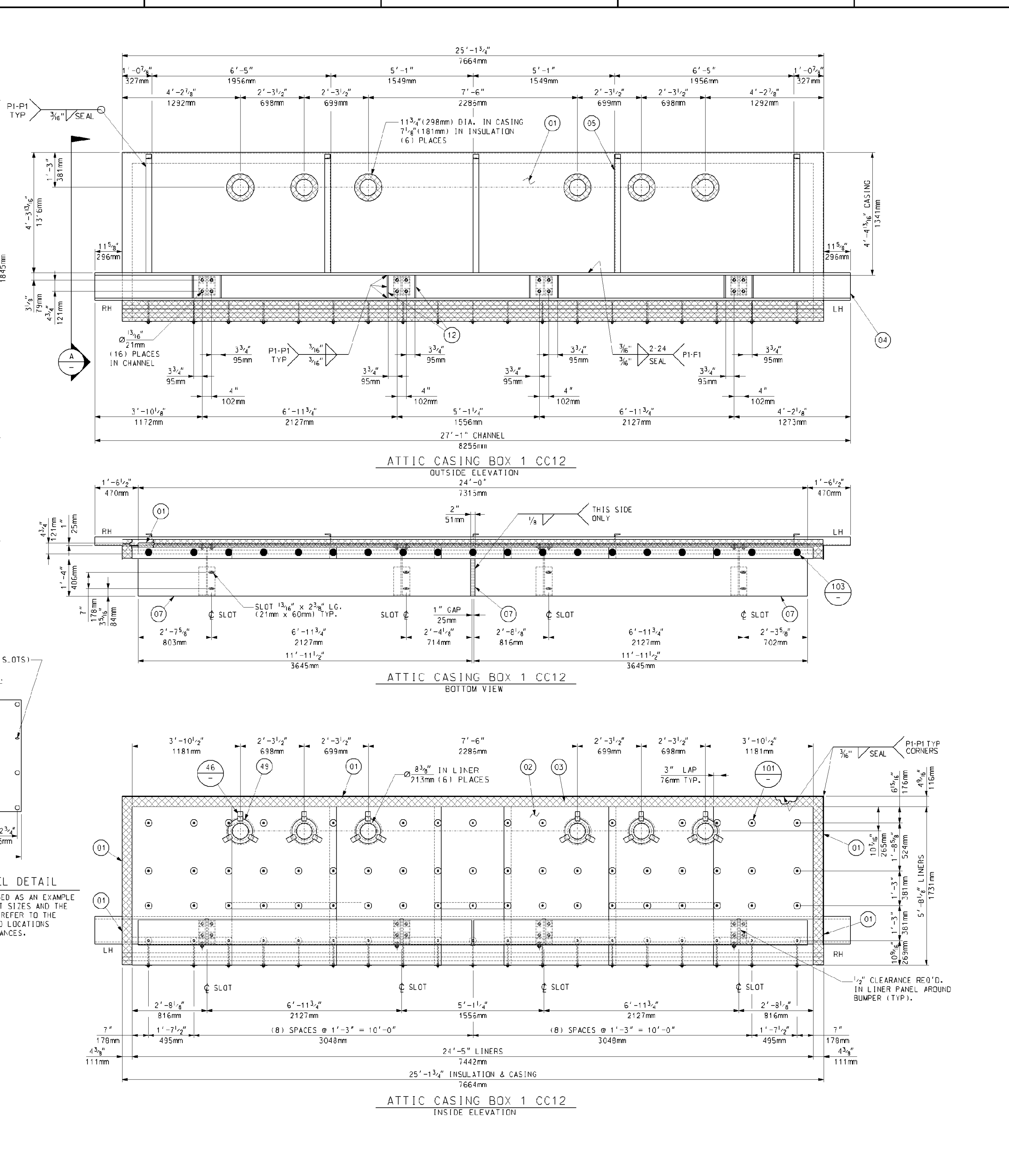
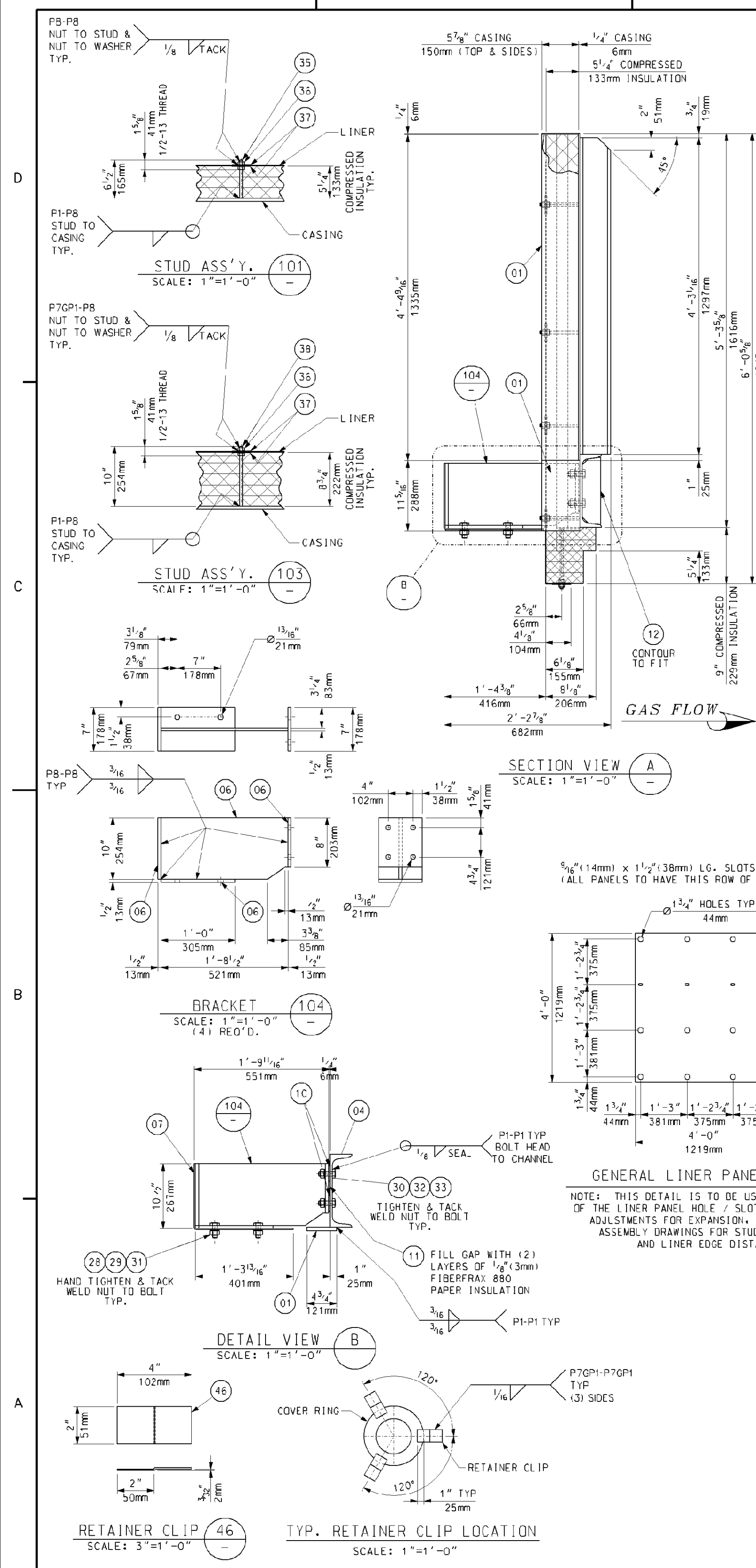
Rev.	Description	Date	Drawn	Chkd.	Appr.
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4					
3					
2	MOVED CASING STIFFENERS	07/06/06	BP	MAS	
1	ADDED DIMENSIONAL TOLERANCE BETWEEN LUGS	06/20/06	MAS	JD	
0	FIRST ISSUE	06/01/06	SJudd	JD	DP

Florida Municipal Power Agency
Treasure Coast Energy Center, FBI
for TIC / UE
Vogt Power Project 17424

Title TOP CASING ASSEMBLIES
TC10 (BOX 1A & 1B)

VogtPower
International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-TCND-001	02



BILL OF MATERIALS

PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	130	SO. FT. OF PLATE, 1/4" THK.	JIS 3101-SS400
02	185	SO. FT. OF SHEET, 14 GA.(2mm) THK.	A-240 TP409
03	455	SO. FT. OF INSULATION 2" THK. 1800°F 8# DENSITY	CERAMIC FIBER
04	28	LIN. FT. OF CHANNEL, C300x30x9x13	JIS 3101-SS400
05	22	LIN. FT. OF CHANNEL, C125x65x6x8	JIS 3101-SS400
06	12	SO. FT. OF PLATE, 1/2" THK.	A-240 TP304
07	53	SO. FT. OF PLATE, 3/8" THK.	A-240 TP409
10	16	WASHER, 1/2" THK., 2 1/2" SO. x 1 3/8" ID	JIS 3101-SS400
11	4	SO.FT. OF 1/2"(3MM) FIBERFAX 880 PAPER INSULATION	
12	2	SO. FT. OF PLATE, 1/2" THK.	JIS 3101-SS400
28	8	20mm HEAVY HEX NUT	A-194-2H
29	8	20mm FLAT WASHER	A-240 TP409
30	16	20mm HEX HD. BOLT x 60mm LG.	ISO10.9
31	8	20mm HEX HD. BOLT x 50mm LG.	A-193 GRB8
32	16	20mm HEAVY HEX NUT	ISO10.9
33	16	20mm FLAT WASHER	ISO10.9
35	72	STUD, 1/2" DIA. x 6 1/2" LG.	A-478 FP304
36	182	HEX NUT, 1/2-13, HEAVY SERIES	A-534 TP304
37	182	WASHER, 1/2 GA.(1.3mm) THK., 3" OD x 3/8" ID	A-240 TP409
38	19	STUD, 1/2" DIA. x 10" LG.	A-478 FP304
46	18	SHEET, 14 GA.(2mm) 2" x 4" LG.	A-240 TP409
49	6	SHEET, 14 GA.(2mm) 10 3/4" OD x 6 3/4" ID	A-240 TP409
101	70	STUD ASSEMBLY	-
103	18	STUD ASSEMBLY	-
104	4	BRACKET	-

PART NUMBERS ARE TO HAVE PREFIX "CC12" FOR EXAMPLE, "01" WOULD BE "CC1201"

GENERAL NOTES:

- SEE 017424-MAN-001 FOR "EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLIES."
- ALL WELDING TO BE IN ACCORDANCE WITH LATEST STANDARDS OF AMERICAN WELDING SOCIETY, STANDARD D1.1 USING FEXX=70KSI ELECTRODES.
- SEAL WELD ALL STRUCTURALS TO CASING AND TO EACH OTHER. ALL PRESSURE CASING TO BE SEAL WELDED GAS TIGHT.
- ALL STEEL WORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
- PROVIDE A 3/4" DIA. DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
- ALL INSULATION TO BE COMPRESSED APPROX. 1/2" PER 1" TO GIVEN THICKNESSES.
- APPROXIMATE ASSEMBLY WEIGHT: 4,150 LBS. EA.
- QTY. SHOWN FOR ONE (1) UNIT. ONE (1) UNIT IS REQUIRED TOTAL.
- DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN THE FIELD.

REFERENCE DRAWINGS:
017424-EBND-102 STANDARD FABRICATION TOLERANCES FOR ATTIC & BASEMENT PANELS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
5					
4					
3	REVISED MATERIAL PART NO. 36	06/26/06	SJudd	RMC	GH DP
2	RELOCATED STUDS & LINER PANELS	06/26/06	SJudd	RMC	GH DP
1	ADDED FLAT BAR TO BAFFLE	06/20/06	SJudd	RMC	GH DP
0	FIRST ISSUE	06/06/06	SJudd	RMC	GH DP

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Florida Municipal Power Agency
Treasure Coast Energy Center, PB1
for TIC / UE
Vogt Power Project 17424

Vogt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

Scale: 1/2"=1'-0"

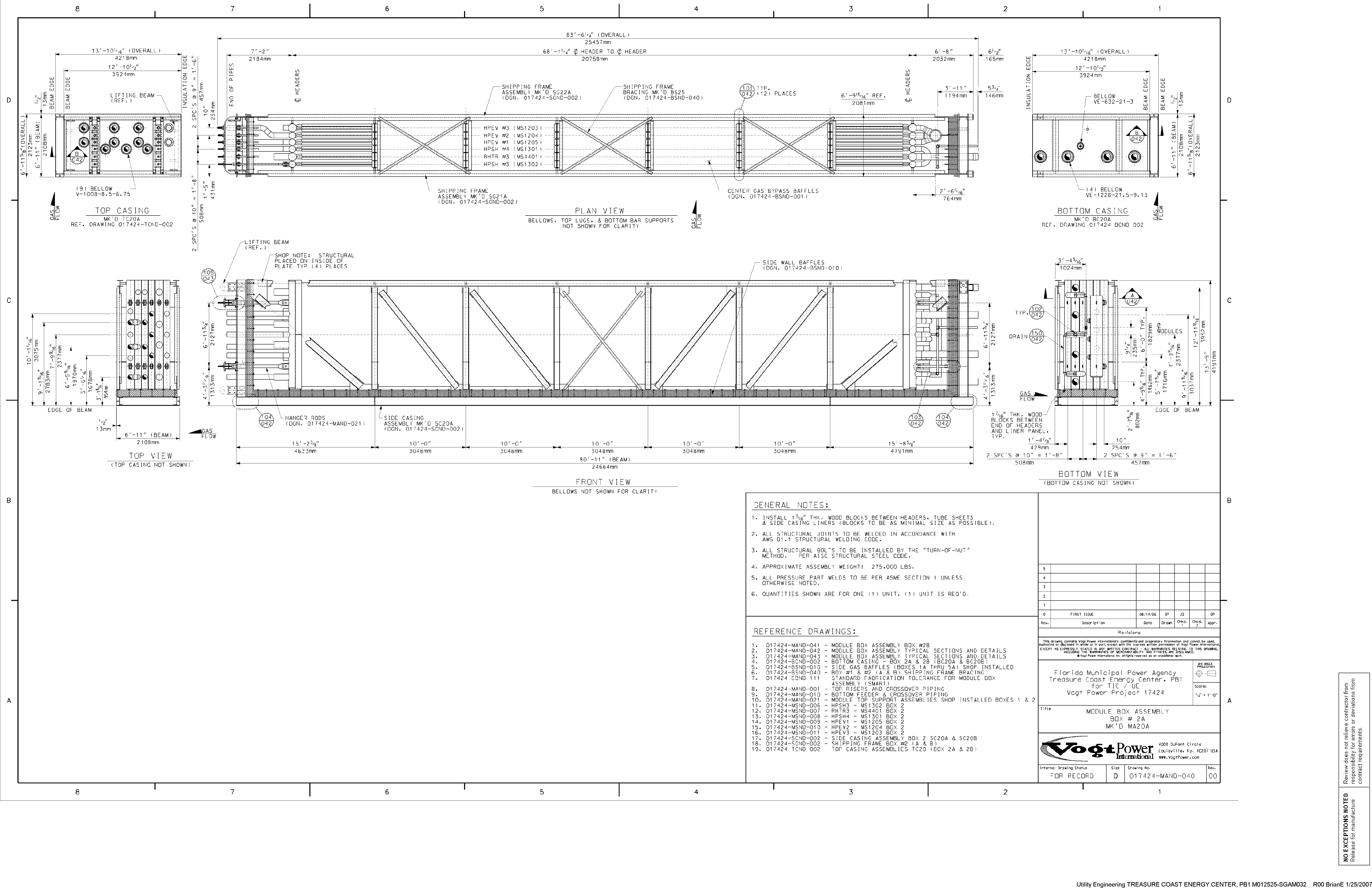
**ATTIC PANEL ASSEMBLY
OUTLET BOX 1 (CC12)**

Internal Drawing Status	Size	Drawing No.	Rev.
FCR RECORD	D	017424-CCND-002	03

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
Release for manufacture

MODULE 2



Rev.	Description	Date	Drawn	Chk'd.	Appr.
5					
4					
3					
2					
1					
0	FIRST ISSUE	08/14/06	BP	JD	DP

Revisions

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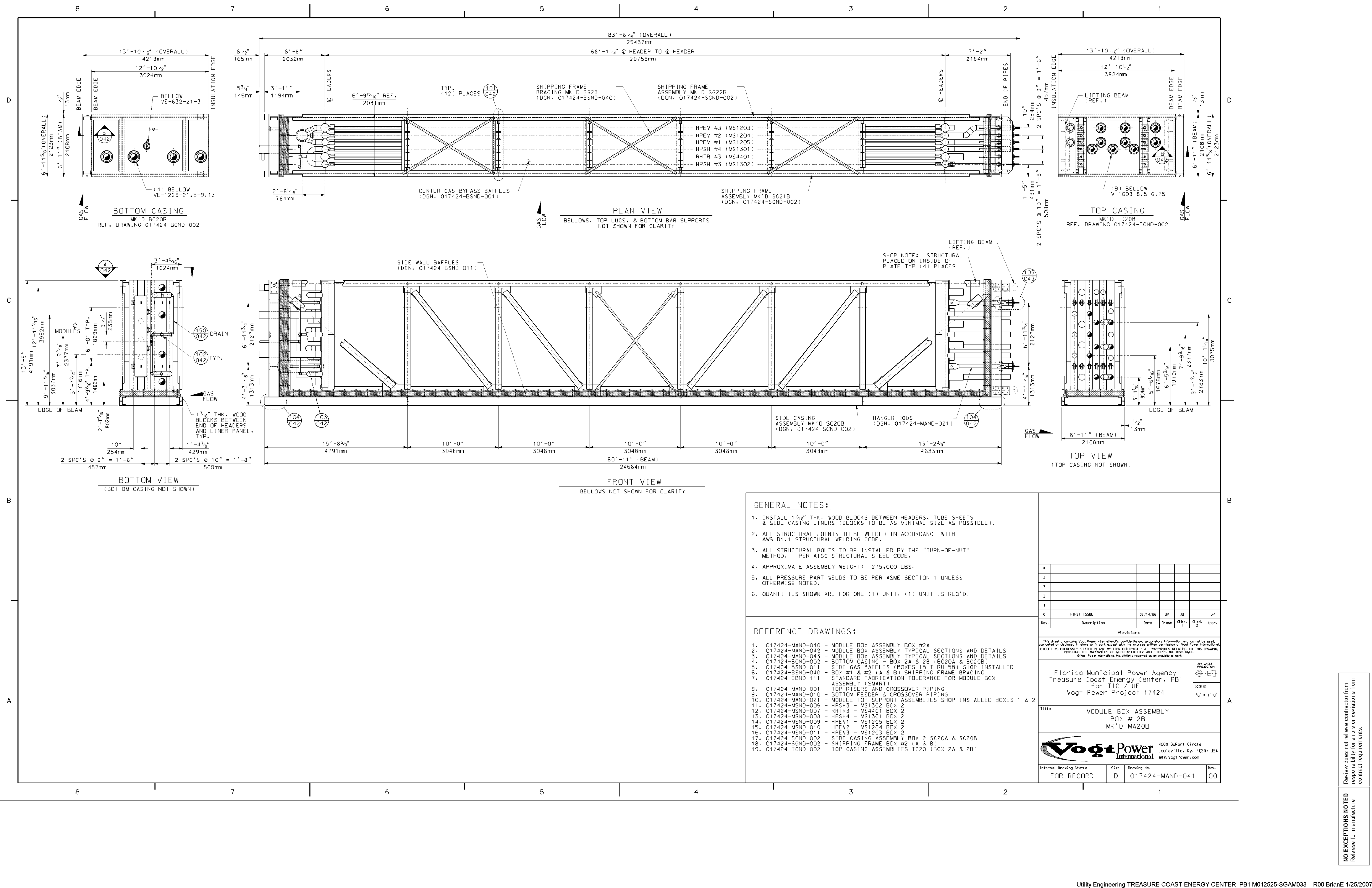
Title: MODULE BOX ASSEMBLY
 BOX # 2A
 MK'D MA20A

Scale: 1/2" = 1'-0"

Internal Drawing Status: FOR RECORD | Size: D | Drawing No.: 017424-MAND-040 | Rev.: 00

NO EXCEPTIONS NOTED
 Release for manufacture

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.



GENERAL NOTES:

- INSTALL 1 1/2" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
- ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
- ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
- APPROXIMATE ASSEMBLY WEIGHT: 275,000 LBS.
- ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
- QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNIT IS REQ'D.

- REFERENCE DRAWINGS:**
- 017424-MAND-040 - MODULE BOX ASSEMBLY BOX #2A
 - 017424-MAND-042 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-MAND-043 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-SCND-002 - BOTTOM CASING - BOX 2A & 2B (BC20A & BC20B)
 - 017424-BSND-011 - SIDE GAS BAFFLES (BOXES 1B THRU 5B) SHOP INSTALLED
 - 017424-BSND-040 - BOX #1 & #2 (A & B) SHIPPING FRAME BRACING STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 - 017424-BCND-111
 - 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 - 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 - 017424-MAND-021 - MODULE TOP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 1 & 2
 - 017424-MSND-006 - HPSH3 - MS1302 BOX 2
 - 017424-MSND-007 - RHTR3 - MS4401 BOX 2
 - 017424-MSND-008 - HPSH4 - MS1301 BOX 2
 - 017424-MSND-009 - HPEV1 - MS1205 BOX 2
 - 017424-MSND-010 - HPEV2 - MS1204 BOX 2
 - 017424-MSND-011 - HPEV3 - MS1203 BOX 2
 - 017424-SCND-002 - SIDE CASING ASSEMBLY BOX 2 SC20A & SC20B
 - 017424-SCND-002 - SHIPPING FRAME BOX #2 (A & B)
 - 017424-TCND-002 - TOP CASING ASSEMBLIES TC20 (BOX 2A & 2B)

5					
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1					
0	FIRST ISSUE	08/14/06	BP	JD	DP
Rev.	Description	Date	Drawn	Chk'd	Appr.
Revisions					

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Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
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 Voegt Power Project 17424

Title
 MODULE BOX ASSEMBLY
 BOX # 2B
 MK'D MA20B

Voegt Power International
 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VoegtPower.com

Internal Drawing Status
 FOR RECORD

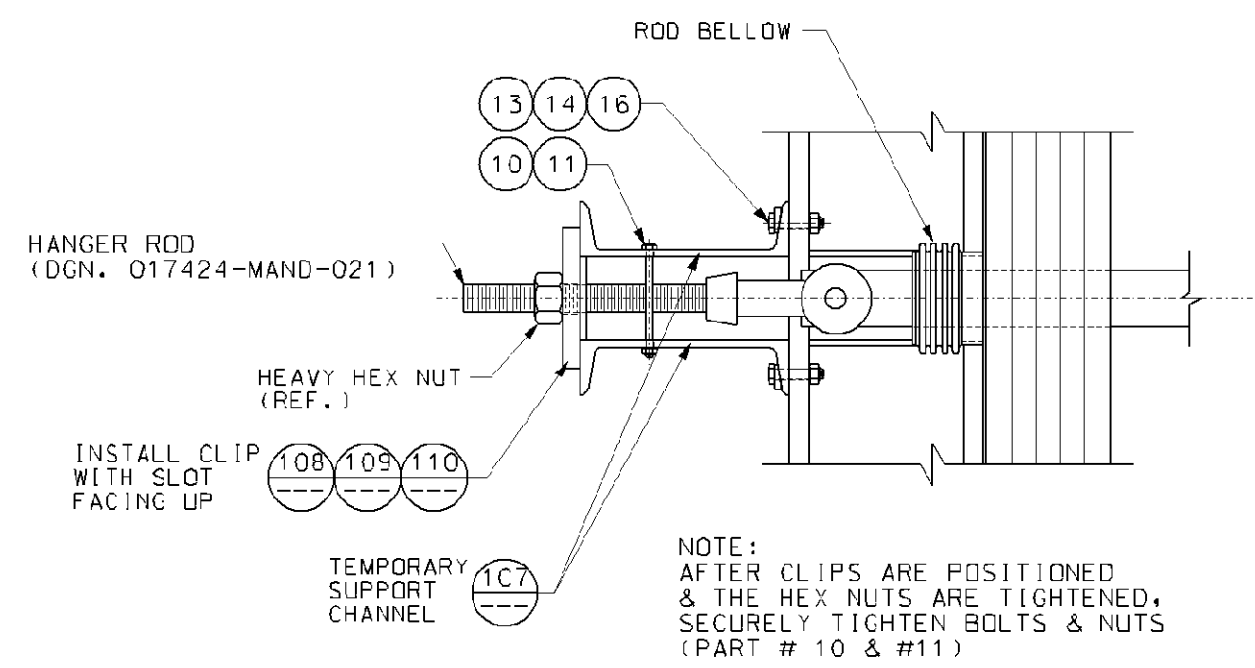
Size
 D

Drawing No.
 017424-MAND-041

Rev.
 00

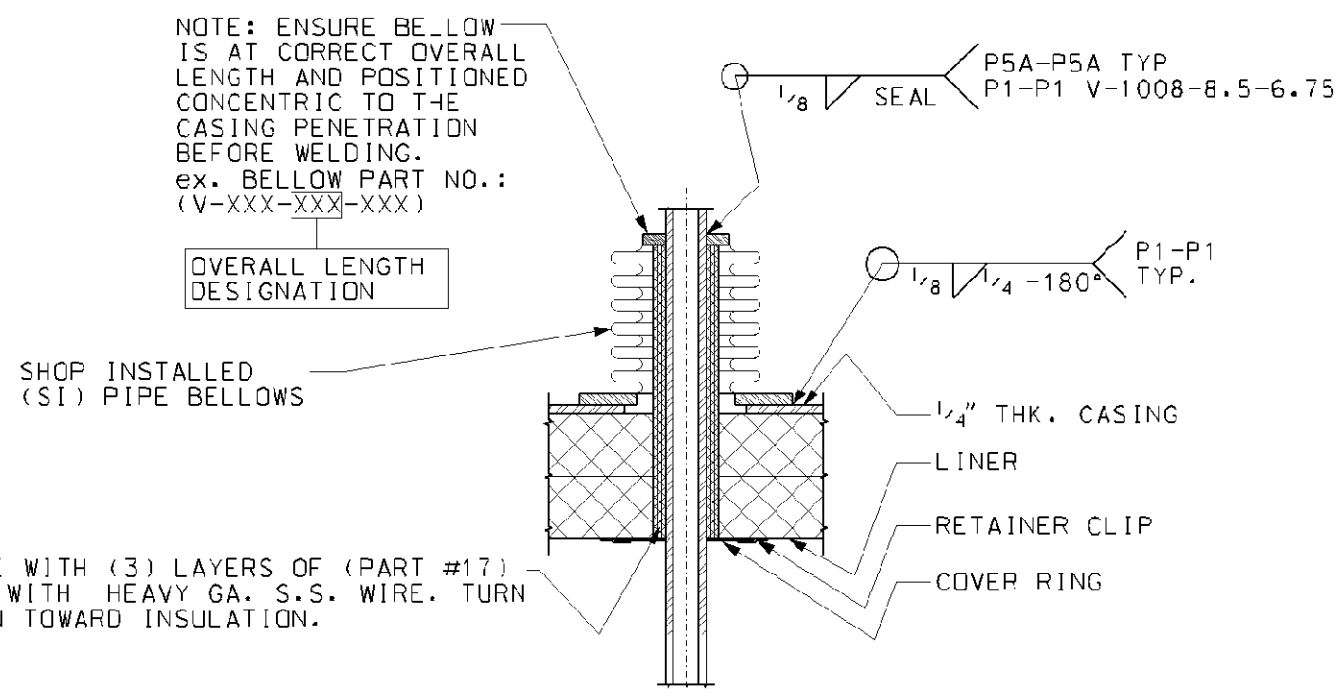
NO EXCEPTIONS NOTED
 Release for manufacture

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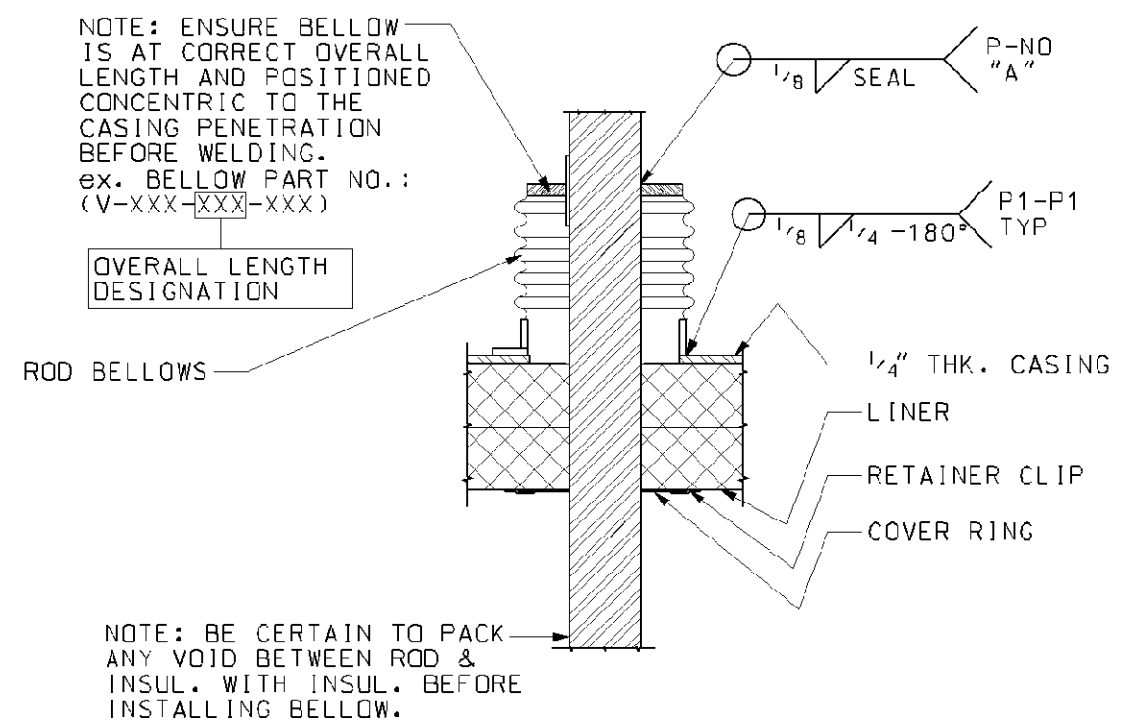


TOP SUPPORT DETAIL VIEW (105)
(2) REQ'D PER MODULE (NOT TO SCALE) (104, 041)

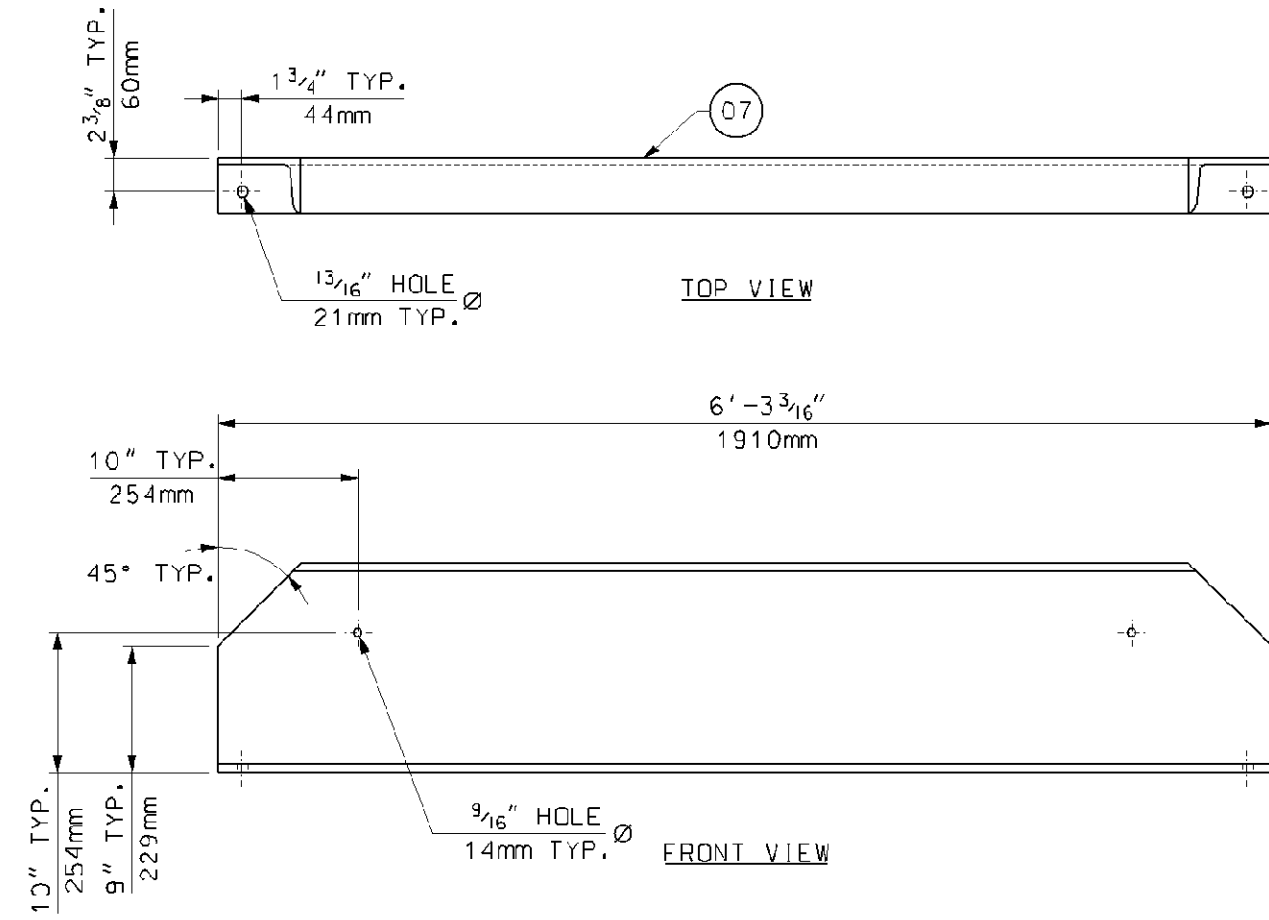
MODULE NO. (REFERENCE)	HANGER ASS'Y NO.	ROD BELLOWS	P-A NO.	CLIP
MS1302 (HPSH#3)	MA0005	VB-P609-5-0.14	P5A-P45	108
MS4401 (RHTR#3)	MA0006	VB-P609-5-0.14	P5A-P45	108
MS1301 (HPSH#4)	MA0007	VB-P608-5-0.27	P8-P8	108
MS1205 (HPEV#1)	MA0008	VB-P608-5-0.27	P8-P8	109
MS1204 (HPEV#2)	MA0009	VB-P608-5-0.27	P8-P8	109
MS1203 (HPEV#3)	MA0010	VB-P608-5-0.27	P8-P8	110



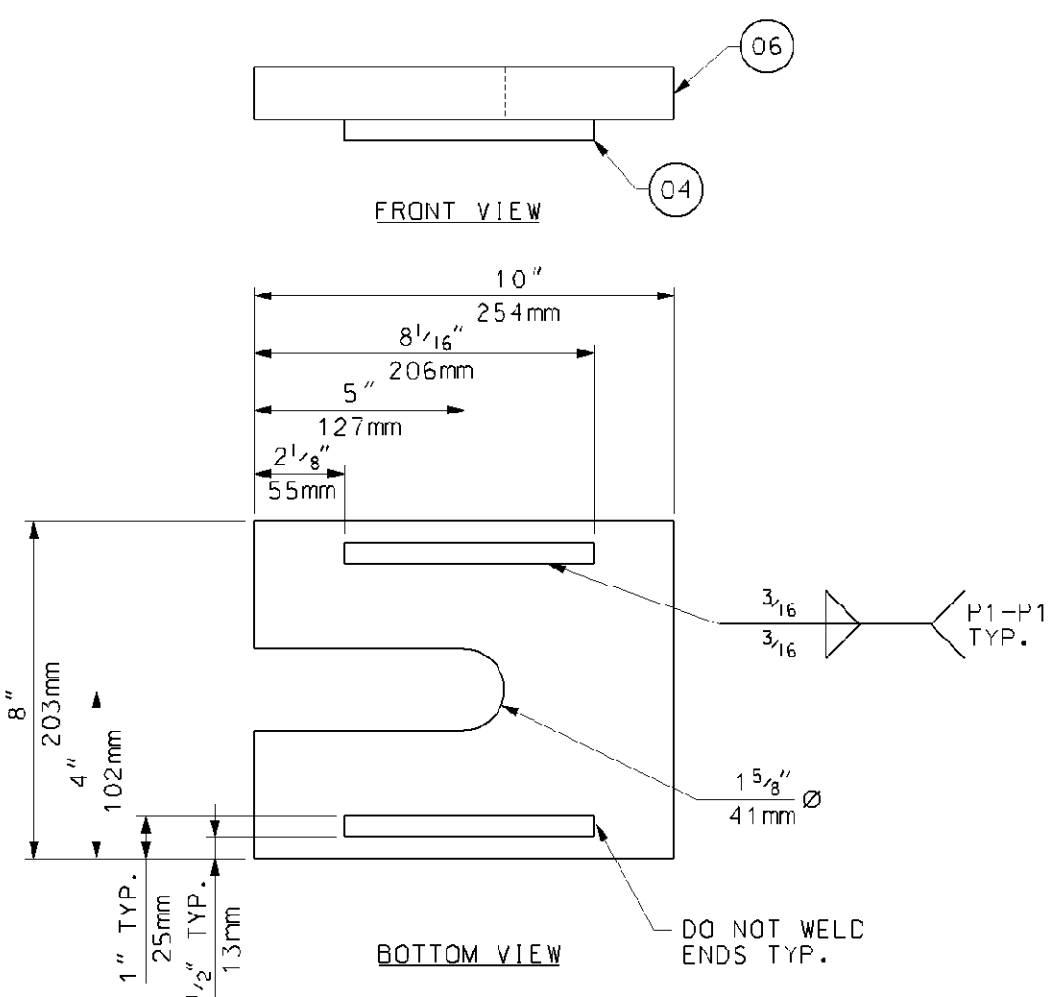
TYPICAL PIPE BELLOWS INSTALLATION DETAIL
SCALE: NONE



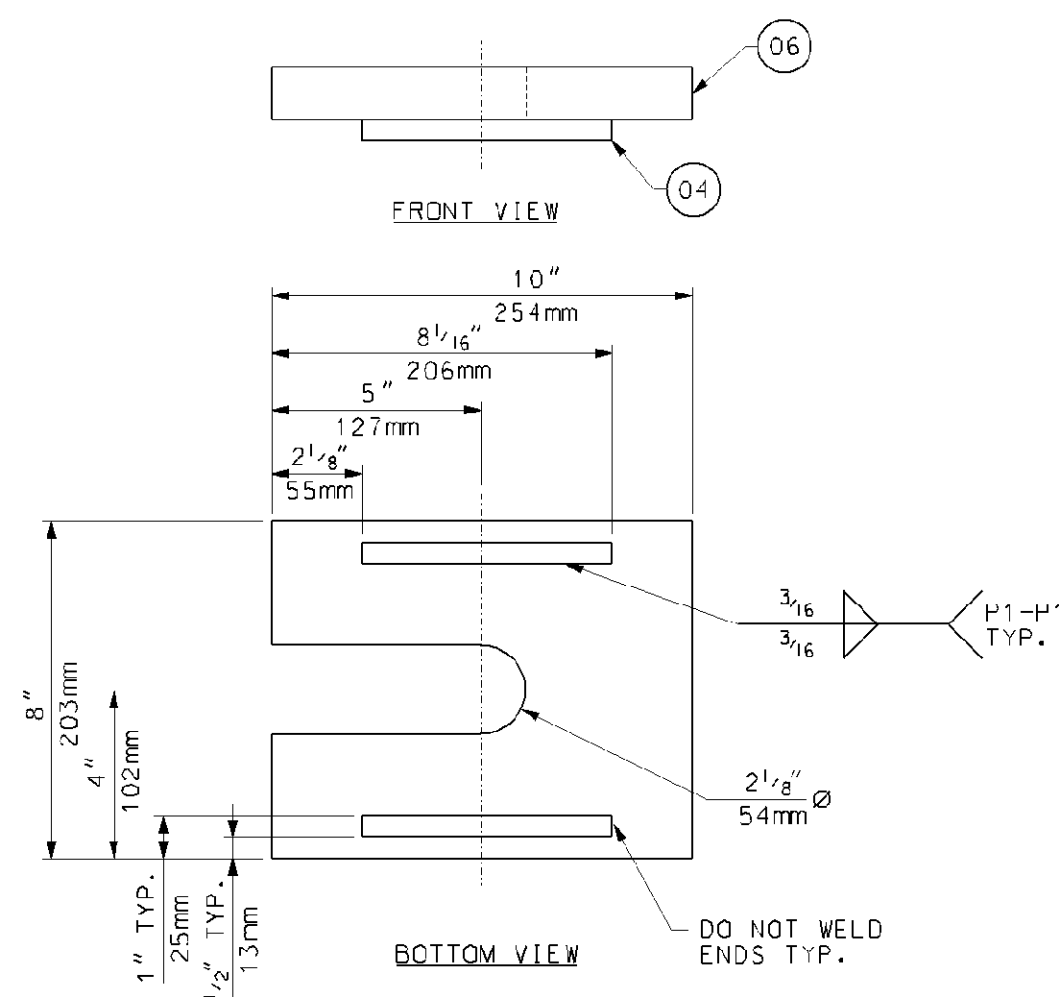
TYPICAL ROD CASING BELLOW INSTALLATION DETAIL
SCALE: NONE



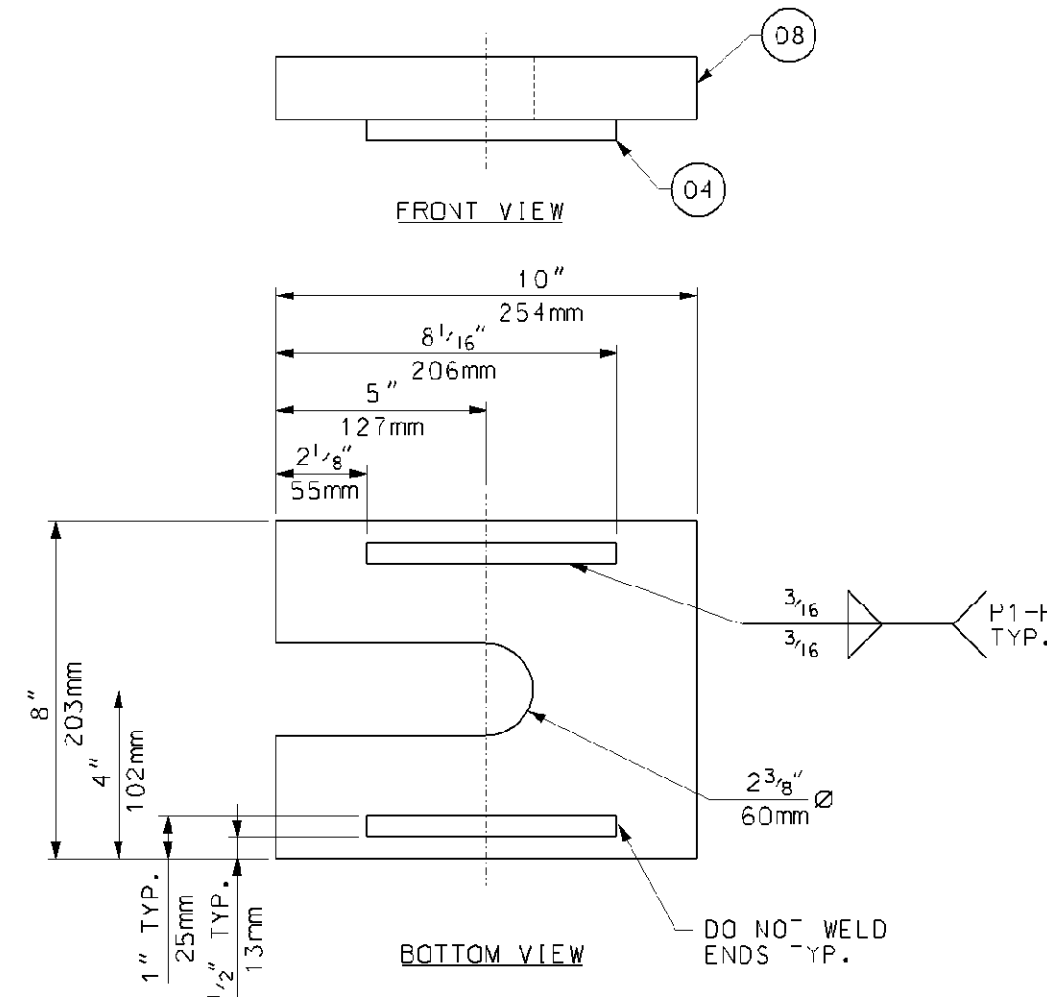
TEMPORARY SUPPORT CHANNEL (107)
QTY.: (8) REQ'D TOTAL
PAINT: SAFETY YELLOW



TEMPORARY MODULE SUPPORT CLIP FOR HANGER RODS (108)
SCALE: 3" = 1'-0"
QTY.: (12) REQ'D TOTAL
PAINT: SAFETY YELLOW



TEMPORARY MODULE SUPPORT CLIP FOR HANGER RODS (109)
SCALE: 3" = 1'-0"
QTY.: (8) REQ'D TOTAL
PAINT: SAFETY YELLOW



TEMPORARY MODULE SUPPORT CLIP FOR HANGER RODS (110)
SCALE: 3" = 1'-0"
QTY.: (4) REQ'D TOTAL
PAINT: SAFETY YELLOW

BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
04	1	SO. FT. OF PLATE, 1/2" (12mm) THK.	JIS G3101-S400
06	12	SO. FT. OF PLATE, 1 1/2" (32mm) THK.	JIS G3101-S400
07	51	LIN. FT. OF CHANNEL, C380x100x10.5x16	JIS G3101-S400
08	3	SO. FT. OF PLATE, 1 1/2" (38mm) THK.	JIS G3101-S400
10	8	HEX BOLT, 1/2" DIA. (M12x200mm)	S04.8
11	8	HEX NUT, 1/2" DIA. (M12)	S04.8
13	16	BOLT, 3/4" DIA. (M20x30mm)	S04.8
14	16	NUT, 3/4" DIA. (M20)	S04.8
16	16	BEVEL WASHER, 3/4" DIA. (M20)	S04.8
17	300	SO. FT. OF PAPER INSULATION, 1/8" THK. HIGH TEMPERATURE, LOW SHRINKAGE, CERAMIC FIBER	

PART NUMBERS ARE TO HAVE THE PREFIX OF "MA" FOR EXAMPLE: "20A"(BOX ASSY.) + "04" (PART #) WOULD BE "MA20A04"

- GENERAL NOTES:
- ALL WELDS IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 - QUANTITIES SHOWN FOR (1) UNIT, (1) UNIT IS REQUIRED TOTAL.

- REFERENCE DRAWINGS:
- 017424-MAND-040 - MODULE BOX ASSEMBLY BOX #2A
 - 017424-MAND-041 - MODULE BOX ASSEMBLY BOX #2B
 - 017424-MAND-042 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
0	FIRST ISSUE	08/14/06	BP	JD	DP

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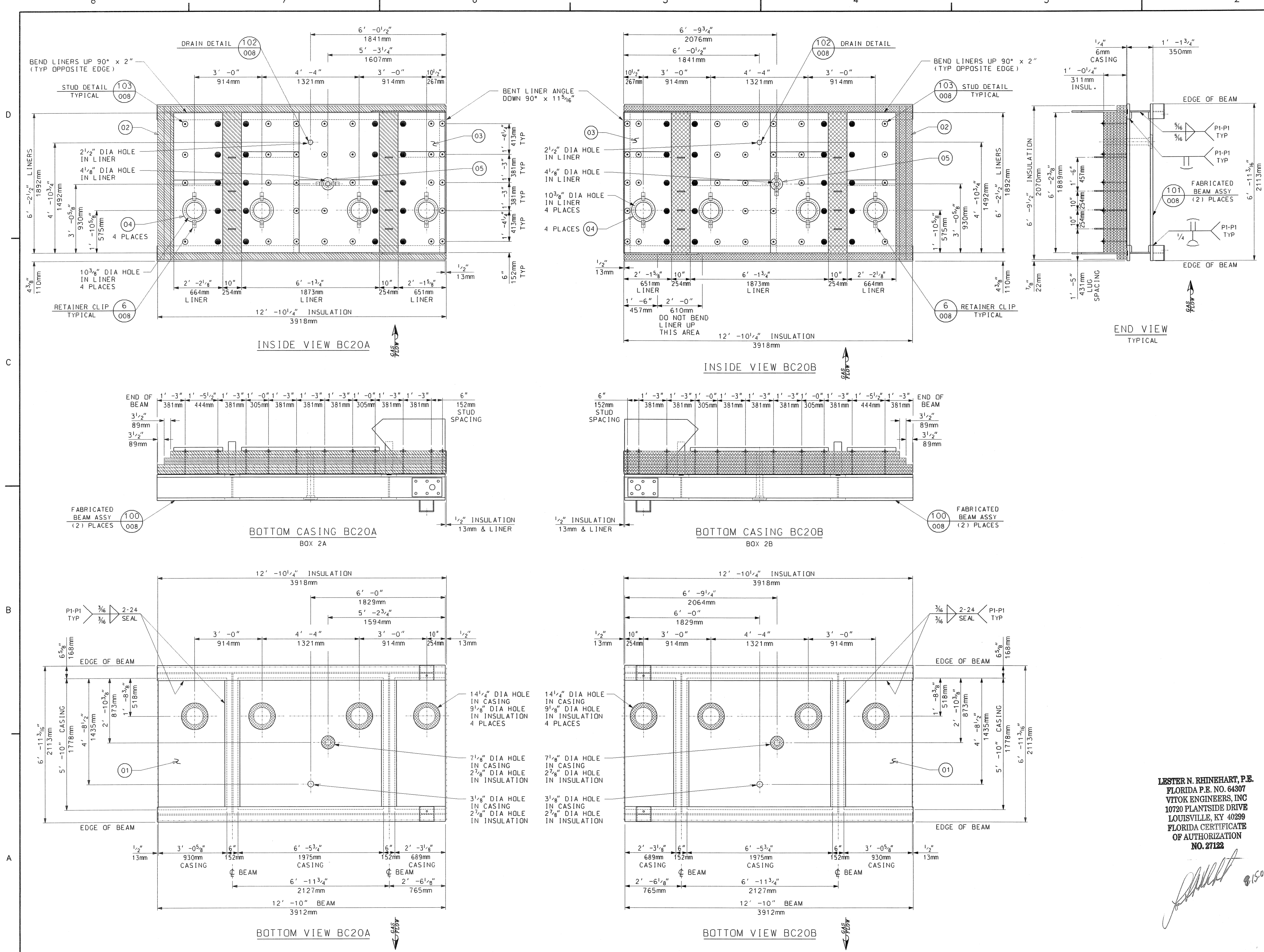
Florida Municipal Power Agency
Treasure Coast Energy Center, PB1
for TIC / UE
Vogt Power Project 17424

Title: MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS

Vogt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-043	00

NO EXCEPTIONS NOTED
Release for manufacture



BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	138	SO FT OF PLATE, 1/2" THK	JIS 3101 SS400	
02	1190	SO FT OF INSULATION, 2" THK, 1800°F 8# DENSITY	CERAMIC FIBER	
03	156	SO FT OF SHEET, 14 GA THK	A-240 TP310S	
04	8	SHEET, 14 GA THK, 12 3/4" OD x 8 3/4" ID	A-240 TP310S	
05	2	SHEET, 14 GA THK, 6 1/2" OD x 2 1/2" ID	A-240 TP310S	

PART NO. ARE TO HAVE THE PREFIX "BC". FOR EXAMPLE, "20" (ASSEMBLY) + "01" (PART NUMBER) WOULD BE PART "BC2001".

- GENERAL NOTES:**
- SEE 017424-MANC-001 FOR "EQUIPMENT SPEC FOR SHOP FABRICATED MODULE BOX ASSEMBLIES".
 - ALL WELDING TO BE DONE IN ACCORDANCE WITH LATEST STANDARDS OF AWS STANDARD D1.1
 - SEAL WELD ALL STRUCTURAL MEMBERS TO CASING AND TO EACH OTHER GAS TIGHT.
 - PROVIDE A 3/4" DIA DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL BOLT HOLES ARE TO BE PUNCHED OR DRILLED.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/8" PER 1" TO GIVEN THICKNESS.
 - DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN FIELD.
 - ALL DIMENSIONS AND WELDS MARKED "TYP" APPLY TO BOX A AND B.
 - TRIM LINER AND WASHERS WITH 1/2" CLEARANCE, U.N.O. AS NECESSARY AT THE TIME OF ASSEMBLY.
 - APPROXIMATE ASSEMBLY WEIGHT: 6100 LBS PER BOX
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT, ONE (1) UNIT TOTAL REQUIRED.

REFERENCE DRAWINGS:

017424-BCND-008	BOTTOM CASING DETAILS
017424-EBND-103	STANDARD FABRICATION TOLERANCE FOR TOP AND BOTTOM CASINGS

M012525-SGAS007 R0
TREASURE COAST 10/1/2006

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release for manufacture
 Revise and resubmit for distribution

RETURNED FOR CORRECTION
 Do not proceed
 Revise and resubmit for authorization

5					
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1					
0	FIRST ISSUE	05/31/06	BP	RON C	LNR DP
Rev.	Description	Date	Drawn	Chkd.	Appr.

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Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Voigt Power Project 17424

Title: **BOTTOM CASING - BOX 2A & 2B (BC20A & BC20B)**

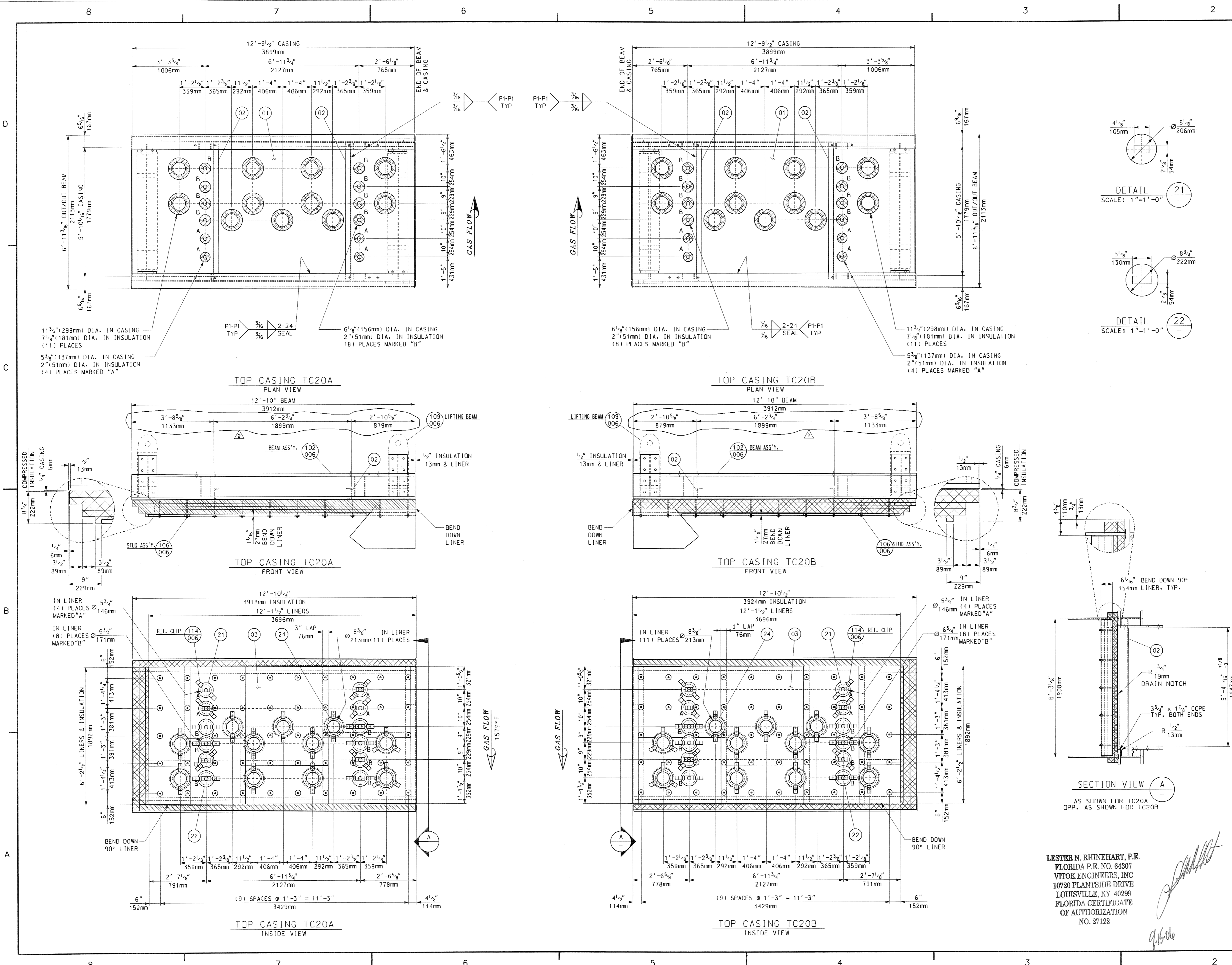
Voigt Power International 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VoigtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-BCND-002	00

LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
VYOK ENGINEERS, INC
 10720 PLANTSIDE DRIVE
 LOUISVILLE, KY 40299
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 27122

[Signature] 8/5/06

FYI



BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	2	PLATE, 1/2" THK., 5'-10 1/8" x 12'-9 1/2"	JIS 3101-SS400	
02	4	CHANNEL, C150x75x6.5x10 x 6'-2 3/8" LG.	JIS 3101-SS400	
03	170	SQ. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-240 TP310S	
04	1000	SQ. FT. OF INSULATION 2" THK. 1800°F 8# DENSITY	CERAMIC FIBER	
21	8	SHEET, 16 GA. (1.5mm) THK. DET.	A-240 TP310S	
22	16	SHEET, 16 GA. (1.5mm) THK. DET.	A-240 TP310S	
24	22	SHEET, 16 GA. (1.5mm) THK. 10 3/4" OOD x 6 3/4" ID	A-240 TP310S	
102	288/ZLH	BEAM ASSEMBLY	SHT 006	
106	96	STUD DETAIL	SHT 006	
109	2	LIFTING BEAM ASSEMBLY (FIELD INSTALLED)	SHT 006	
114	96	RETAINER CLIP	SHT 006	

PART NUMBERS TO HAVE THE PREFIX "TC20". FOR EXAMPLE PART No. 01 WOULD BE TC2001.

- GENERAL NOTES:**
- SEE 017424-TCND-001 FOR GENERAL NOTES
 - APPROXIMATE ASSEMBLY WEIGHT: 6,200 LBS. EA.
 - QTY. SHOWN FOR ONE (1) UNIT, ONE (1) UNIT IS REQ'D TOTAL.

REFERENCE DRAWINGS:



M012525-SGAS078 R2 TREASURE COAST 10/1/2006

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NO EXCEPTIONS NOTED	EXCEPTIONS NOTED
RETURNED FOR CORRECTION	DO NOT PROCEED
DO NOT PROCEED	REVISOR'S AUTHORITY

Rev.	Description	Date	Drawn	Chkd.	Appr.
5					
4					
3					
2	MOVED CASING STIFFENERS	07/06/06	BP	MAS	
1	ADDED DIMENSIONAL TOLERANCE BETWEEN LUGS	06/20/06	MAS	JD	
0	FIRST ISSUE	06/01/06	Sjudd	JD	DP

Revisions

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Vogt Power Project 17424

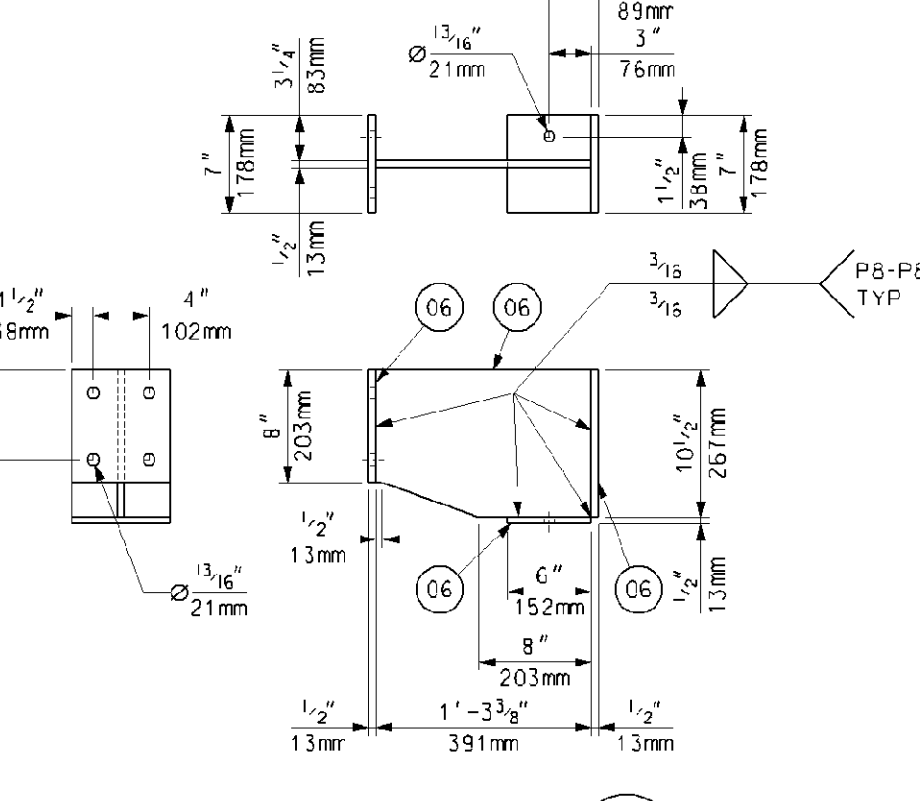
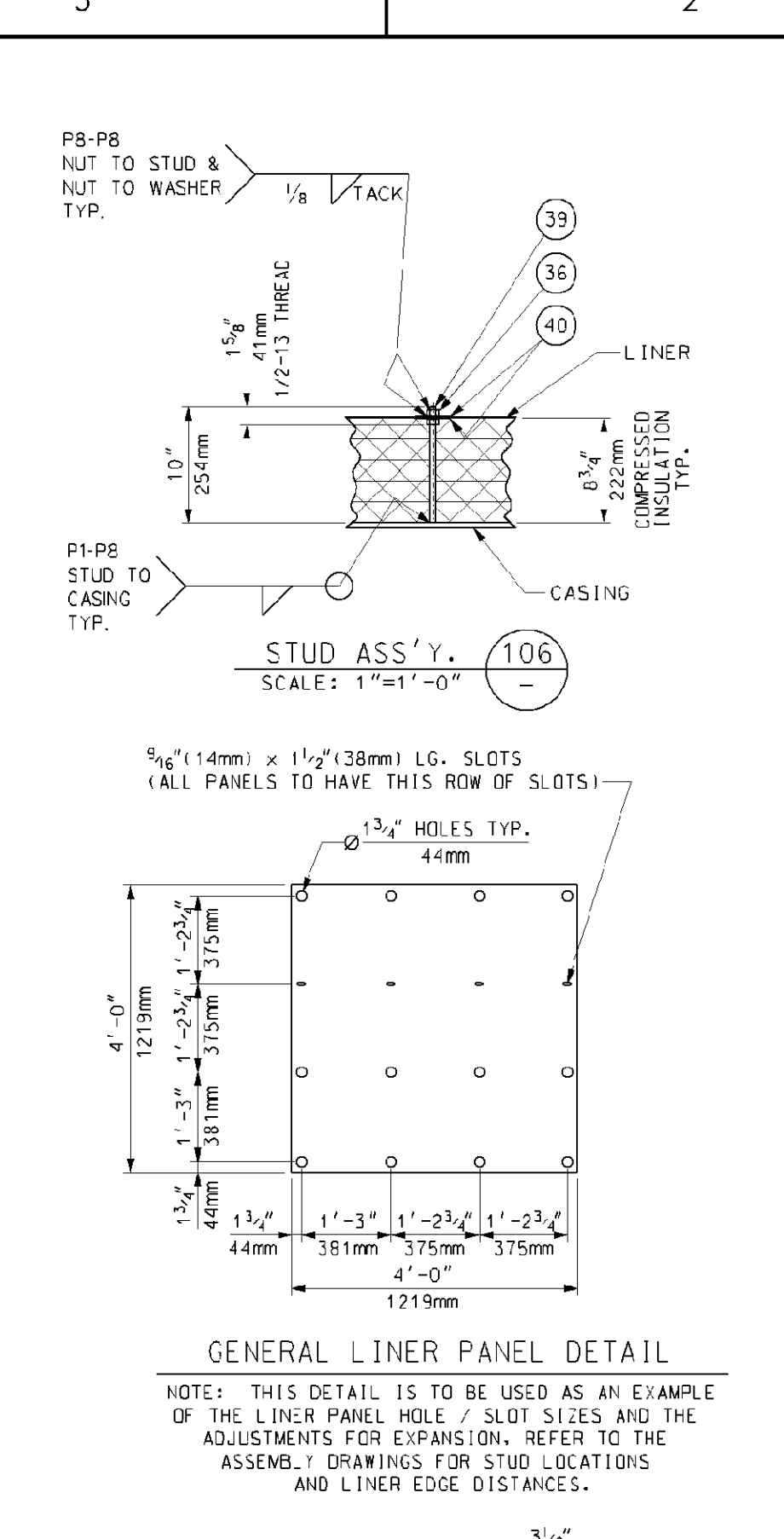
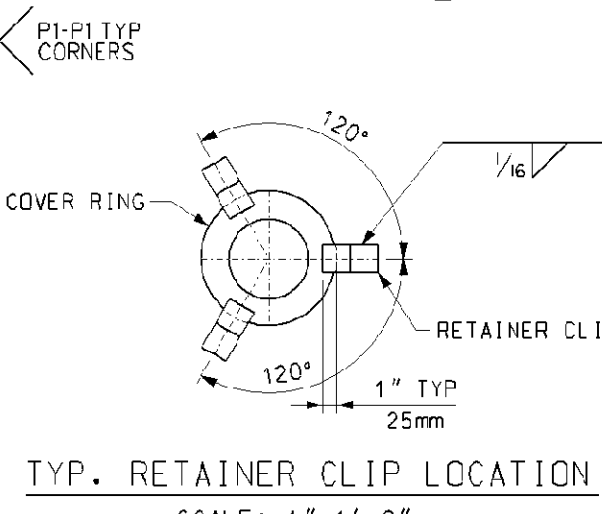
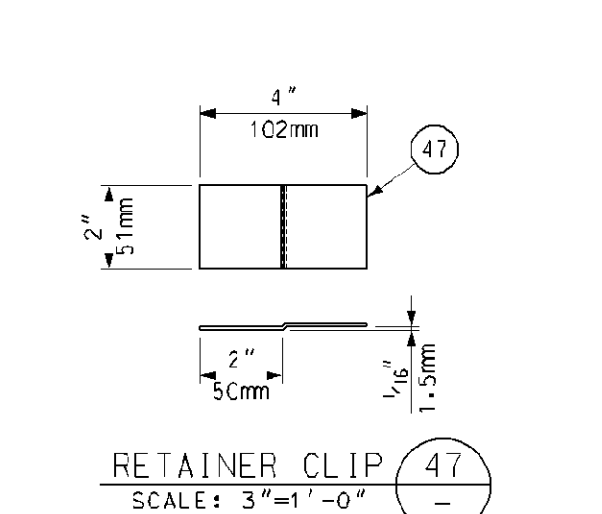
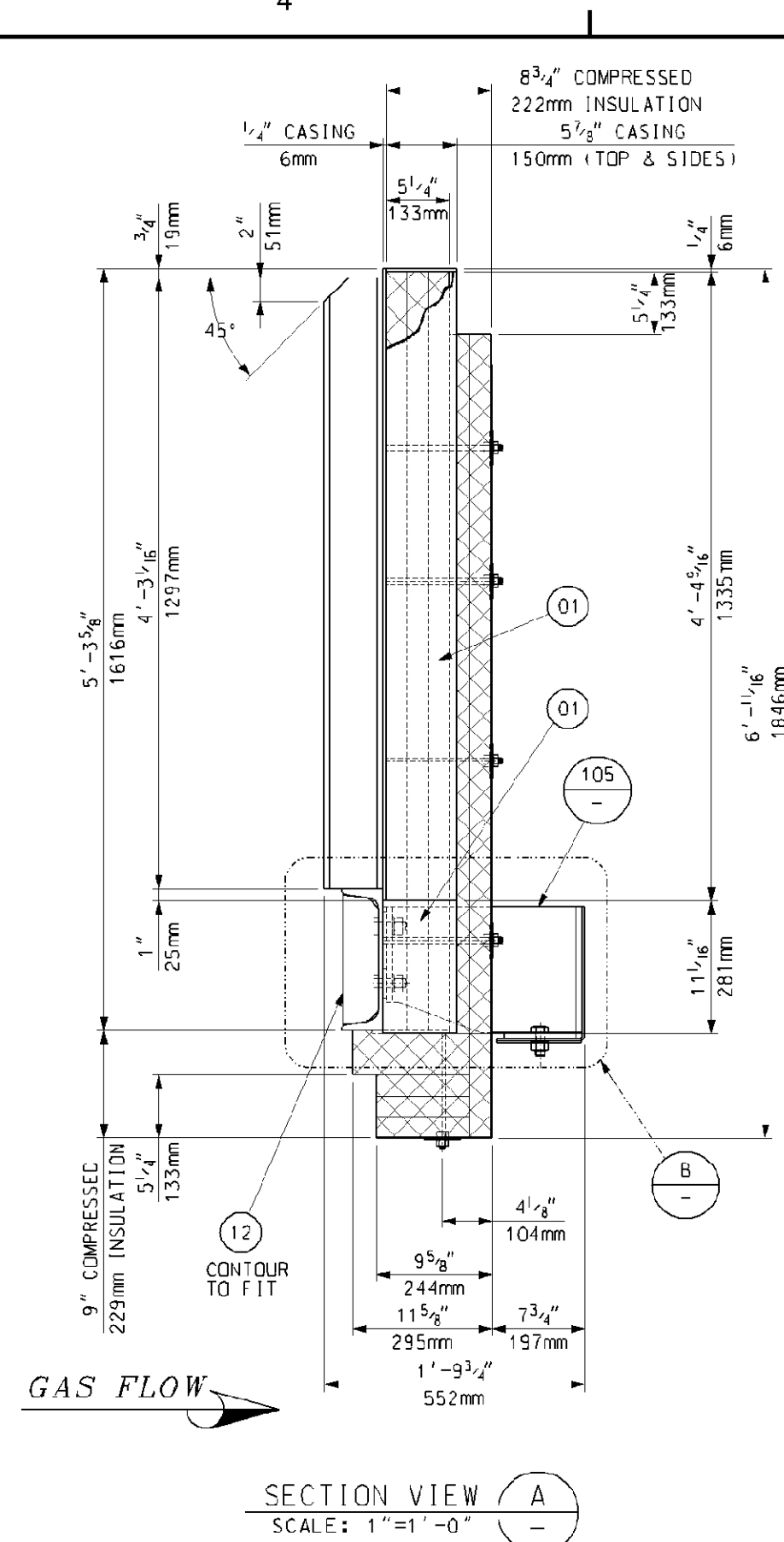
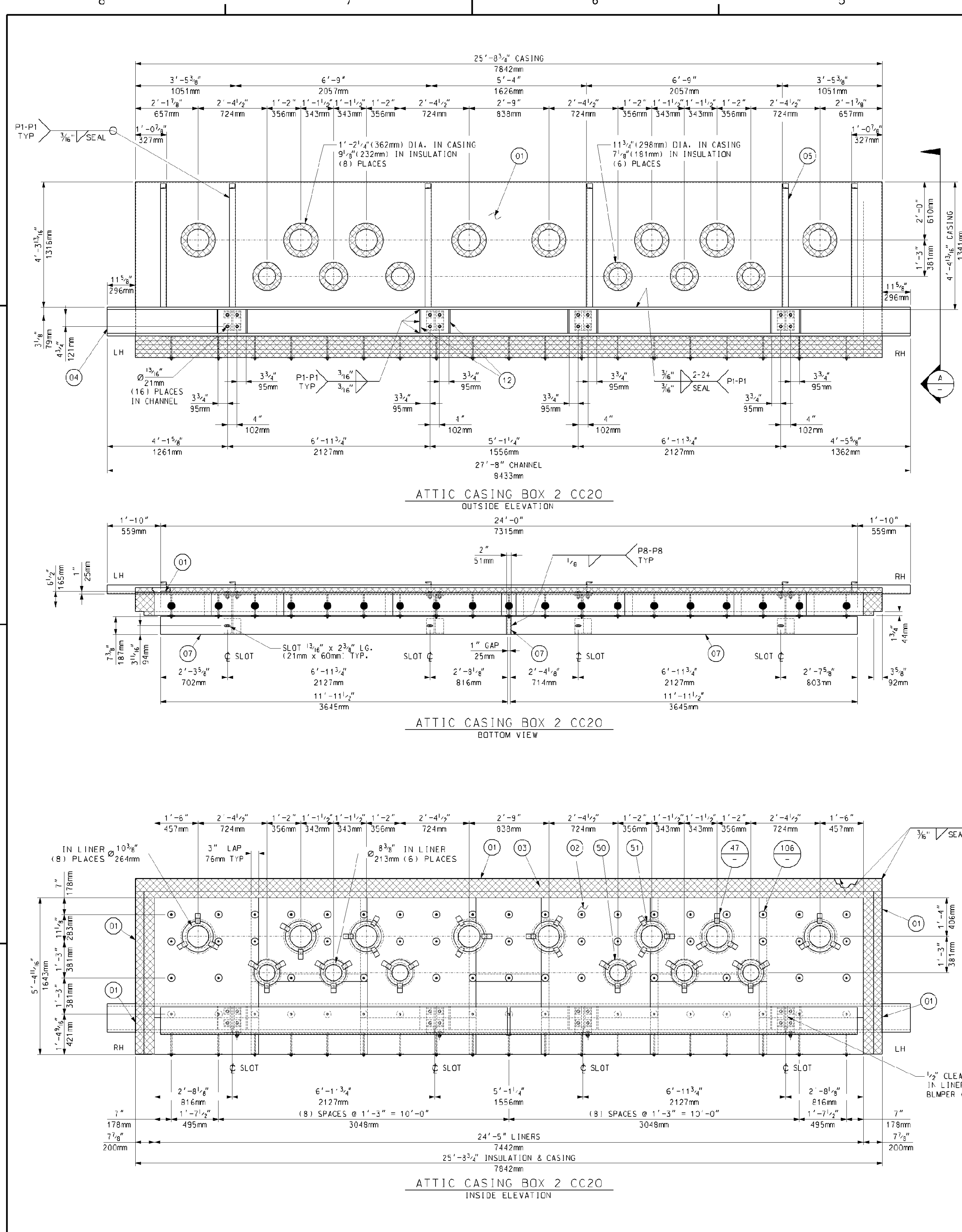
Title
**TOP CASING ASSEMBLIES
TC20 (BOX 2A & 2B)**



4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-TCND-002	02

LESTER N. RHINEHART, P.E.
FLORIDA P.E. NO. 64307
VITOK ENGINEERS, INC
10720 PLANTSIDE DRIVE
LOUISVILLE, KY 40299
FLORIDA CERTIFICATE
OF AUTHORIZATION
NO. 27122



BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	131	SO. FT. OF PLATE, 1/4" THK.	JIS 3101-SS400
02	195	SO. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-210 IP3105
03	775	SO. FT. OF INSULATION 2" THK. 1800°F 8# DENSITY	CERAMIC FIBER
04	28	LIN. FT. OF CHANNEL, C300x30x3x13	JIS 3101-SS400
05	26	LIN. FT. OF CHANNEL, C125x65x6x8	JIS 3101-SS400
06	10	SO. FT. OF PLATE, 1/2" THK.	A-240 IP3105
07	37	SO. FT. OF PLATE, 3/8" THK.	A-240 IP3105
10	16	WASHER, 1/2" THK., 2 1/2" SO. x 1 3/8" ID	JIS 3101-SS400
11	4	SO. FT. OF 1/2" (3MM) FIBERFAX 880 PAPER INSULATION	
12	2	SO. FT. OF PLATE, 1/2" THK.	JIS 3101-SS400
28	8	20mm HEAVY HEX NUT	A-194-2H
29	8	20mm FLAT WASHER	A-240 IP3105
30	16	20mm HEX HD. BOLT x 60mm LG.	ISO13.9
31	8	20mm HEX HD. BOLT x 50mm LG.	A-193 GR88
32	16	20mm HFAVY HEX NUT	ISO13.9
33	16	20mm FLAT WASHER	ISO13.9
36	166	HEX NUT, 1/2-13, (HEAVY SERIES)	F394 IP3105
39	83	STUD, 1/2" DIA. x 10" LG.	A-219 IP3105
40	166	WASHER, 12 GA. (1.5mm) THK., 3" OD x 3/8" ID	A-210 IP3105
47	42	SHEET, 16 GA. (1.5mm) 2" x 4" LG.	A-210 IP3105
50	6	SHEET, 16 GA. (1.5mm) 10 3/4" OD x 6 3/4" ID	A-240 IP3105
51	8	SHEET, 16 GA. (1.5mm) 12 3/8" OD x 8 3/8" ID	A-240 IP3105
105	4	BRACKET	
103	31	STUD ASSEMBLY	

PART NUMBERS ARE TO HAVE PREFIX "CC20" FOR EXAMPLE, "01" WOULD BE "CC2001"

GENERAL NOTES:

- SEE 017424-MANC-001 FOR "EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLIES."
- ALL WELDING TO BE IN ACCORDANCE WITH LATEST STANDARDS OF AMERICAN WELDING SOCIETY STANDARD D1.1 USING FEXX=70KSI ELECTRODES.
- SEAL WELD ALL STRUCTURALS TO CASING AND TO EACH OTHER. ALL PRESSURE CASING TO BE SEAL WELDED GAS TIGHT.
- ALL STEEL WORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
- PROVIDE A 3/4" DIA. DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
- ALL INSULATION TO BE COMPRESSED APPROX. 1/2" PER 1" TO GIVEN THICKNESSES.
- APPROXIMATE ASSEMBLY WEIGHT: 4,300 LBS. EA.
- QTY. SHOWN FOR ONE (1) UNIT. ONE (1) UNIT IS REC'D TOTAL.
- DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN THE FIELD.

REFERENCE DRAWINGS:

017424-EBND-102 STANDARD FABRICATION TOLERANCES FOR ATTIC & BASEMENT PANELS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
5					
4					
3	REVISED MATERIAL PART NO. 36	07/07/06	SJudd	RMC	GH DP
2	RELOCATED STUDS & LINER PANELS	06/26/06	SJudd	RMC	GH DP
1	ADDED FLAT BAR TO BAFFLE	06/20/06	SJudd	RMC	GH DP
0	FIRST ISSUE	06/06/06	SJudd	RMC	GH DP

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ATTIC PANEL ASSEMBLY
INLET BOX 2 (CC20)

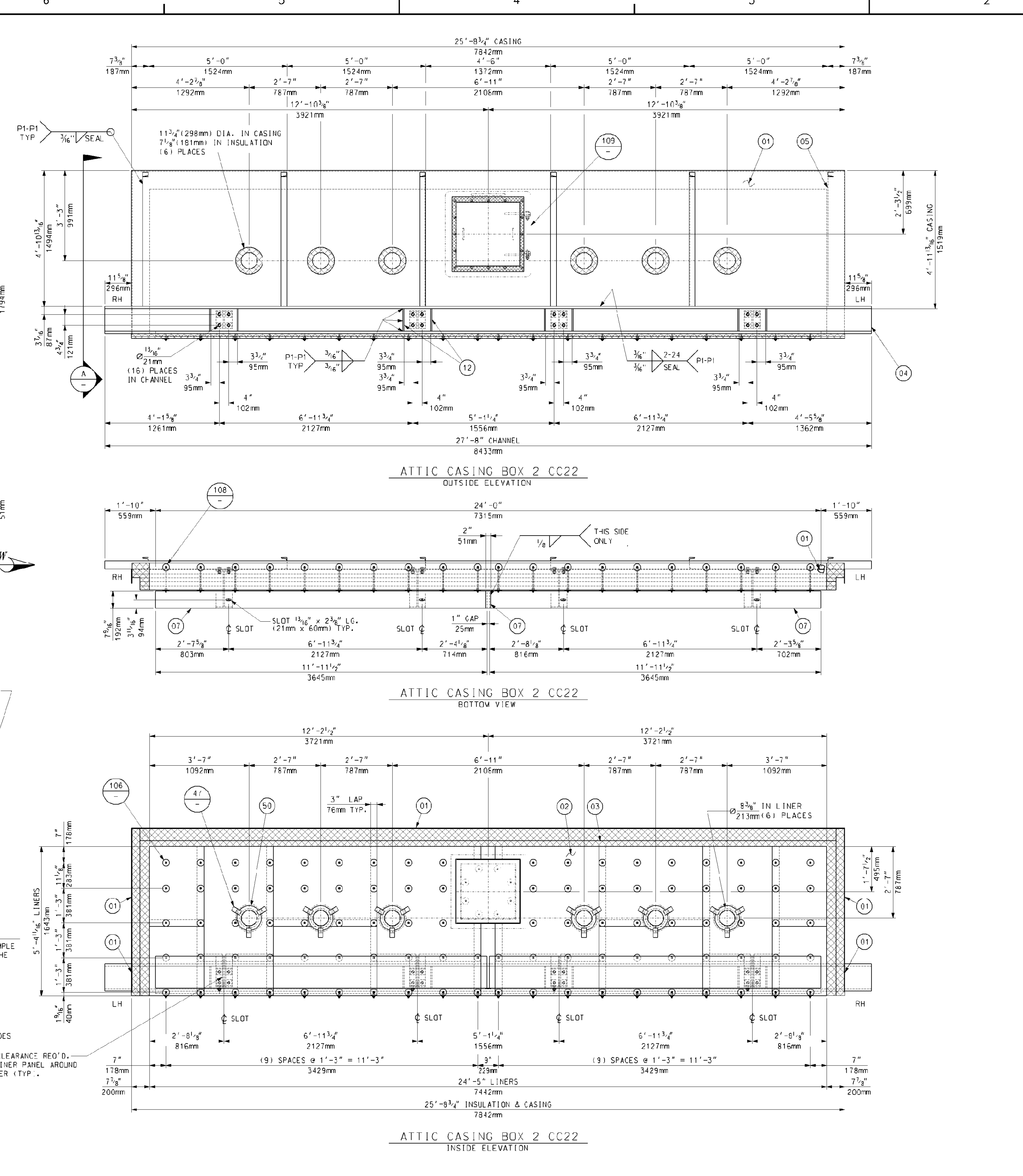
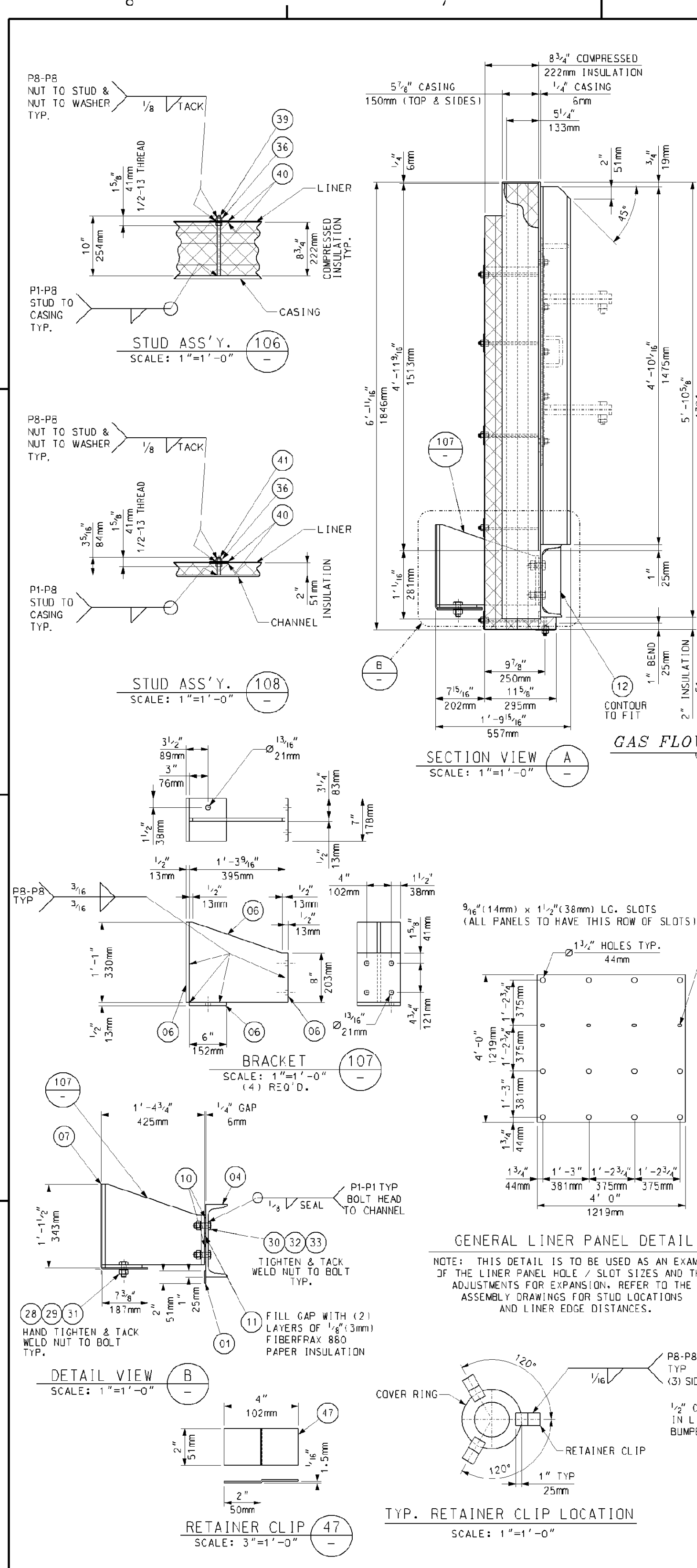
Vogt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

Scale: 1/2"=1'-0"

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-CCND-003	03

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NO EXCEPTIONS NOTED
Release for manufacture



BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MATERIAL SPEC.	
01	147	SO. FT. OF PLATE, 1/4" THK.	JIS 3101-SS400	
02	193	SO. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-210 IP3105	
03	775	SO. FT. OF INSULATION 2" THK. 1800°F 8# DENSITY	CERAMIC FIBER	
04	28	LIN. FT. OF CHANNEL, C300x30x9x13	JIS 3101-SS400	
05	30	LIN. FT. OF CHANNEL, C125x65x6x8	JIS 3101-SS400	
06	11	SO. FT. OF PLATE, 1/2" THK.	A-240 IP3105	
07	42	SO. FT. OF PLATE, 3/8" THK.	A-240 IP3105	
10	16	WASHER, 1/2" THK., 2 1/2" SO. x 1 3/8" ID	JIS 3101-SS400	
11	4	SO. FT. OF 1/4" (3MM) FIBERFAX 880 PAPER INSULATION		
12	2	SO. FT. OF PLATE, 1/2" THK.	JIS 3101-SS400	
28	8	HEAVY HEX NUT, 3/4"-10	A-194-2H	
29	8	FLAT WASHER, 3/4" DIA.	A-240 IP3105	
30	16	HEX HD. BOLT, 3/4"-10 x 2 1/4" LG.	IS010-9	
31	8	HEX HD. BOLT, 3/4"-10 x 2" LG.	A-193 GR88	
32	16	HEAVY HEX NUT, 3/4"-10	IS010-9	
33	16	FLAT WASHER, 3/4" DIA.	IS010-9	
36	228	HEX NUT, 1/2"-13, (HEAVY SERIES)	F394 IP3105	
39	84	STUD, 1/2" DIA. x 10" LG.	A-419 IP3105	
40	228	WASHER, 1/2" GA. (1.5mm) THK., 3" OD x 3/8" ID	A-240 IP3105	
41	20	STUD, 1/2" DIA. x 3 3/8" LG.	A-419 IP3105	
47	18	SHEET, 16 GA. (1.5mm) 2" x 4" LG.	A-240 IP3105	
50	6	SHEET, 16 GA. (1.5mm) 10 3/4" OD x 6 3/4" ID	A-240 IP3105	
106	94	STUD ASSEMBLY		
107	4	BRACKET		
108	20	STUD ASSEMBLY		
109	1	ACCESS DOOR ASSEMBLY (DR60)		017424-DRND-010

PART NUMBERS ARE TO HAVE PREFIX "CC22" FOR EXAMPLE, "01" WOULD BE "CC2201"

GENERAL NOTES:

- SEE 017424-MNC-001 FOR "EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLIES."
- ALL WELDING TO BE IN ACCORDANCE WITH LATEST STANDARDS OF AMERICAN WELDING SOCIETY STANDARD D1.1 USING FEKX-70K51 ELECTRODES.
- SEAL WELD ALL STRUCTURALS TO CASING AND TO EACH OTHER; ALL PRESSURE CASING TO BE SEAL WELDED GAS TIGHT.
- ALL STEEL WORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
- PROVIDE A 3/8" DIA. DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
- ALL INSULATION TO BE COMPRESSED APPROX. 1/8" PER 1" TO GIVEN THICKNESSES.
- APPROXIMATE ASSEMBLY WEIGHT: 4,946 LBS. EA.
- QTY. SHOWN FOR ONE (1) UNIT, ONE (1) UNIT IS REQ'D TOTAL.

REFERENCE DRAWINGS:

017424-DRND-010 - 24" x 24" ACCESS DOOR (DR60) WITH 10" PLUG ASSEMBLY

017424-EBND-102 - STANDARD FABRICATION TOLERANCES FOR ATTIC & BASEMENT PANELS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
5					
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3					
2	REVISED MATERIAL PART NO. 36	07/07/06	SJudd	RNC	GH DP
1	ADDED FLAT BAR TO BAFFLES	06/20/06	SJudd	RNC	GH DP
0	FIRST ISSUE	06/06/06	SJudd	RNC	GH DP

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ATTIC PANEL ASSEMBLY
OUTLET BOX 2 (CC22)

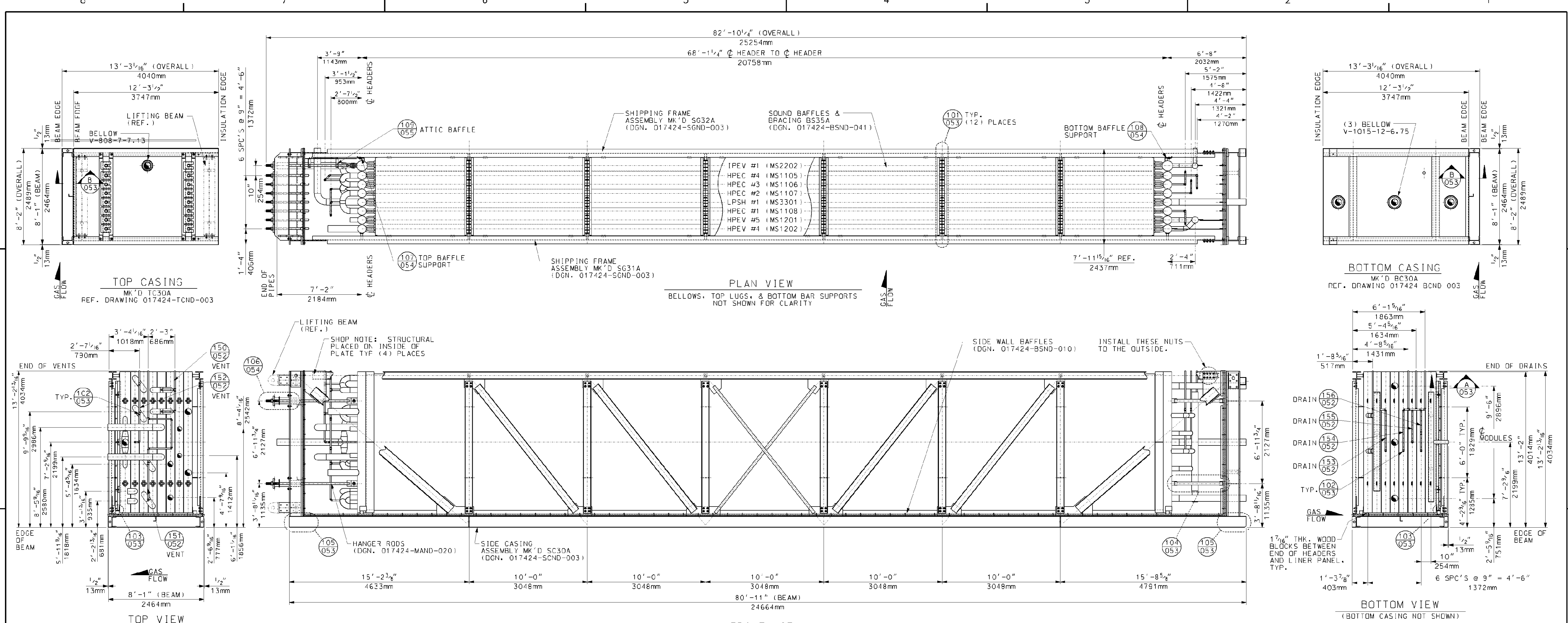
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Internal Drawing Status	Size	Drawing No.	Rev.
FCR RECORD	D	017424-CCND-004	02

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NO EXCEPTIONS NOTED
Release for manufacture

MODULE 3



- GENERAL NOTES:**
1. INSTALL 1 7/8" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
 2. ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 3. ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
 4. APPROXIMATE ASSEMBLY WEIGHT: 339,000 LBS.
 5. ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
 6. QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNITS IS REQ'D.

- REFERENCE DRAWINGS:**
1. 017424-MAND-051 - MODULE BOX ASSEMBLY BOX #38
 2. 017424-MAND-052 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOXES 3A-3B
 3. 017424-MAND-053 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 4. 017424-MAND-054 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 5. 017424-MAND-055 - ATTIC BAFFLES BOX 3
 6. 017424-MAND-056 - ATTIC BAFFLES BOX 3 DETAILS
 7. 017424-RCND-003 - BOTTOM CASING - BOX 3A & 3B (RC30A & RC30B)
 8. 017424-BSND-010 - SIDE GAS BAFFLES (BOXES 1A THRU 5A) SHOP INSTALLED
 9. 017424-BSND-011 - BOX #3 (A&B) SOUND BAFFLES AND BRACING
 10. 017424-EBND-111 - STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 11. 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 12. 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 13. 017424-MAND-020 - MODULE TOP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 3-5
 14. 017424-MSND-012 - HPEV4 - MS1202 BOX 3
 15. 017424-MSND-013 - HPEV5 - MS1201 BOX 3
 16. 017424-MSND-014 - HPEC1 - MS1108 BOX 3
 17. 017424-MSND-016 - LPSH1 - MS3301 BOX 3
 18. 017424-MSND-017 - HPEC2 - MS1107 BOX 3
 19. 017424-MSND-018 - HPEC3 - MS1106 BOX 3
 20. 017424-MSND-019 - HPEC4 - MS1105 BOX 3
 21. 017424-MSND-020 - IPEV1 - MS2202 BOX 3
 22. 017424-SCND-003 - SIDE CASING ASSEMBLY BOX 3 SC30A & SC30B
 23. 017424-SGND-003 - SHIPPING FRAME BOX #3, 4, & 5 (A & B)
 24. 017424-TCND-005 - TOP CASING ASSEMBLIES TC30 (BOX 3A & 3B)

Rev.	Description	Date	Drawn	Chk'd	Appr.
5					
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0	FIRST ISSUE	08/08/06	R.OMEN	J.D.	DP

Revisions

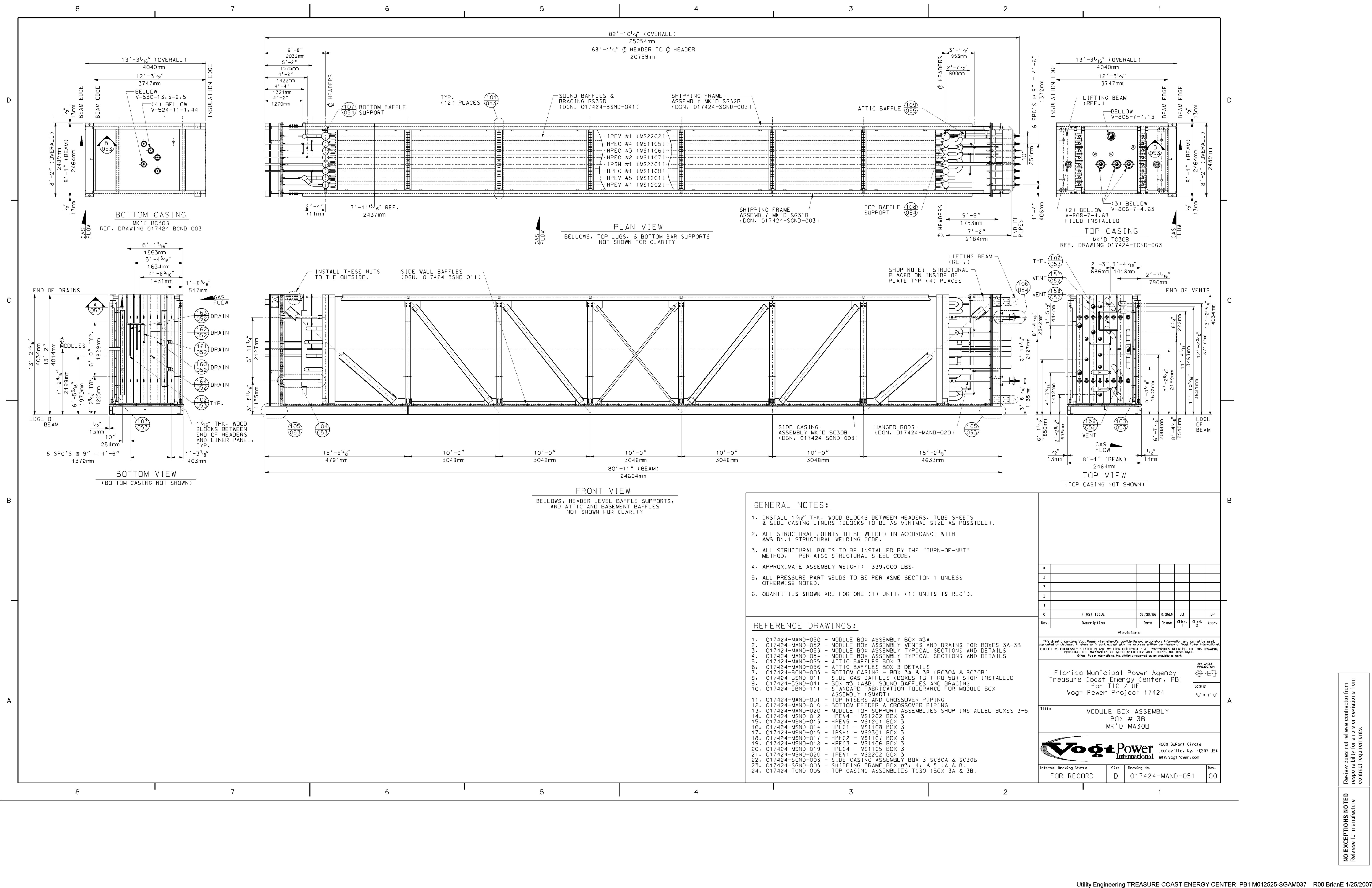
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Title: MODULE BOX ASSEMBLY
BOX # 3A
MK'D MA30A

Scale: 1/2" = 1'-0"

Internal Drawing Status: FOR RECORD | Size: D | Drawing No.: 017424-MAND-050 | Rev.: 00



Rev.	Description	Date	Drawn	Chk'd	Appr.
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1					
0	FIRST ISSUE	08/08/06	R.OMN	JD	DP

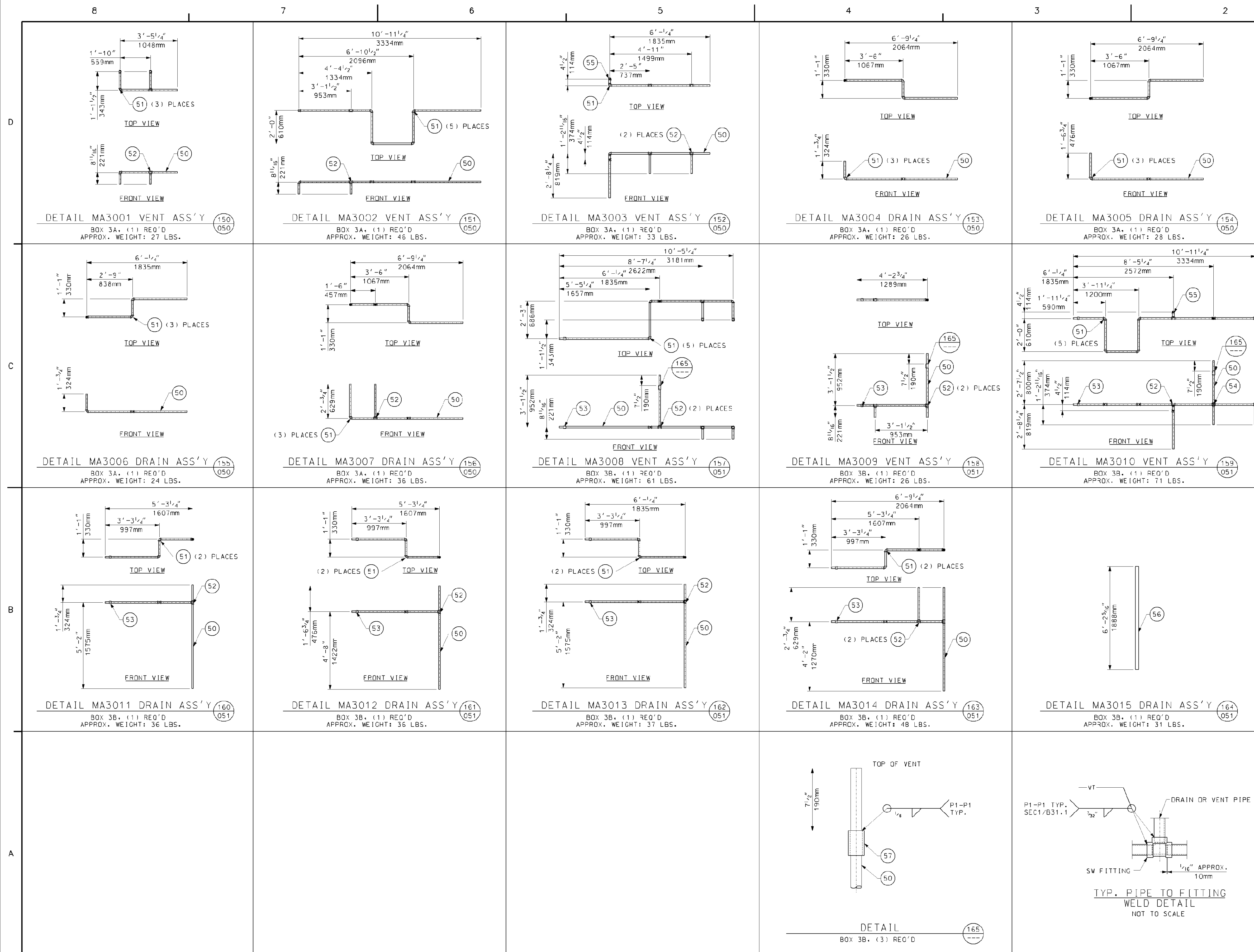
Revisions					
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Florida Municipal Power Agency Treasure Coast Energy Center, PB1 for TIC / UE Voigt Power Project 17424					
Title: MODULE BOX ASSEMBLY BOX # 3B MK'D MA30B					
Internal Drawing Status: FOR RECORD Size: D Drawing No.: 017424-MAND-051 Rev.: 00					

Scale: 1/2" = 1'-0"

4000 DuPont Circle
 Louisville, Ky. 40207 USA
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NO EXCEPTIONS NOTED
 Release for manufacture



BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
50	182	LIN. FT. OF PIPE, 1" SCH. 80 (0.179" WALL)	SA-108 OR B	
51	39	90° ELBOW, 1" 3000# SW	SA-105	
52	15	TEE, 1" 3000# SW	SA-105	
53	7	COUPLING, 1" 3000# SW (DRILL COUPLING THROUGH TO MAKE A PIPE SLEEVE, SEE NOTE #2)	SA-105	
54	1	CROSS, 1" 3000# SW	SA-105	
55	2	45° ELBOW, 1" 3000# SW	SA-105	
56	7	LIN. FT. OF PIPE, 2" SCH. 80 (0.218" WALL)	SA-108 OR B	
57	3	PIPE, 1 1/2" SCH. 80 (3.200" WALL) x 3' LG.	SA-108 OR B	

GENERAL NOTES:

- ALL DRAIN & VENT PIPE WELDS ARE TO BE SECTION 1 / D31.1.
- SECURE PIPE SLEEVES (PART # 53) TO PIPE WITH DUCT TAPE.
- SEE TYPICAL PIPE TO FITTING WELD DETAIL FOR WELDING INSTRUCTIONS.

REFERENCE DRAWINGS:				
1.	017424-MAND-050	-	MODULE BOX ASSEMBLY BOX #3A	
2.	017424-MAND-051	-	MODULE BOX ASSEMBLY BOX #3B	
3.	017424-MAND-053	-	MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS	
4.	017424-MAND-054	-	MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS	
5.	017424-MAND-055	-	ATTIC BAFFLES BOX 3	
6.	017424-MAND-056	-	ATTIC BAFFLES BOX 3 DETAILS	

Rev.	Description	Date	Drawn	Chk'd	Appr.
0	FIRST ISSUE	08/08/06	R. OMEN	JD	CP
Revisions					

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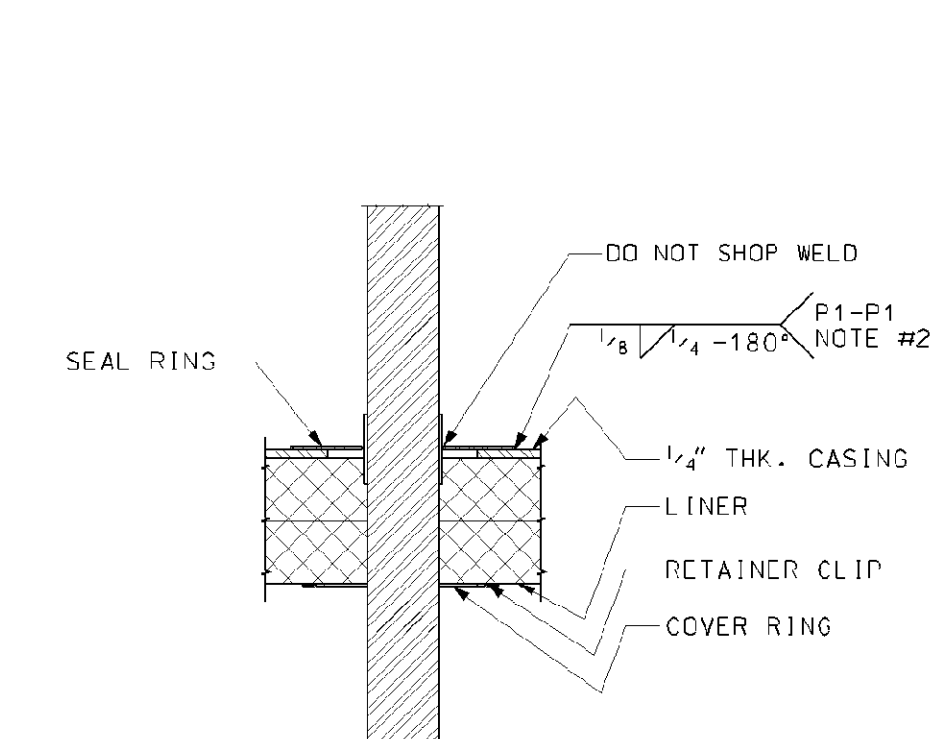
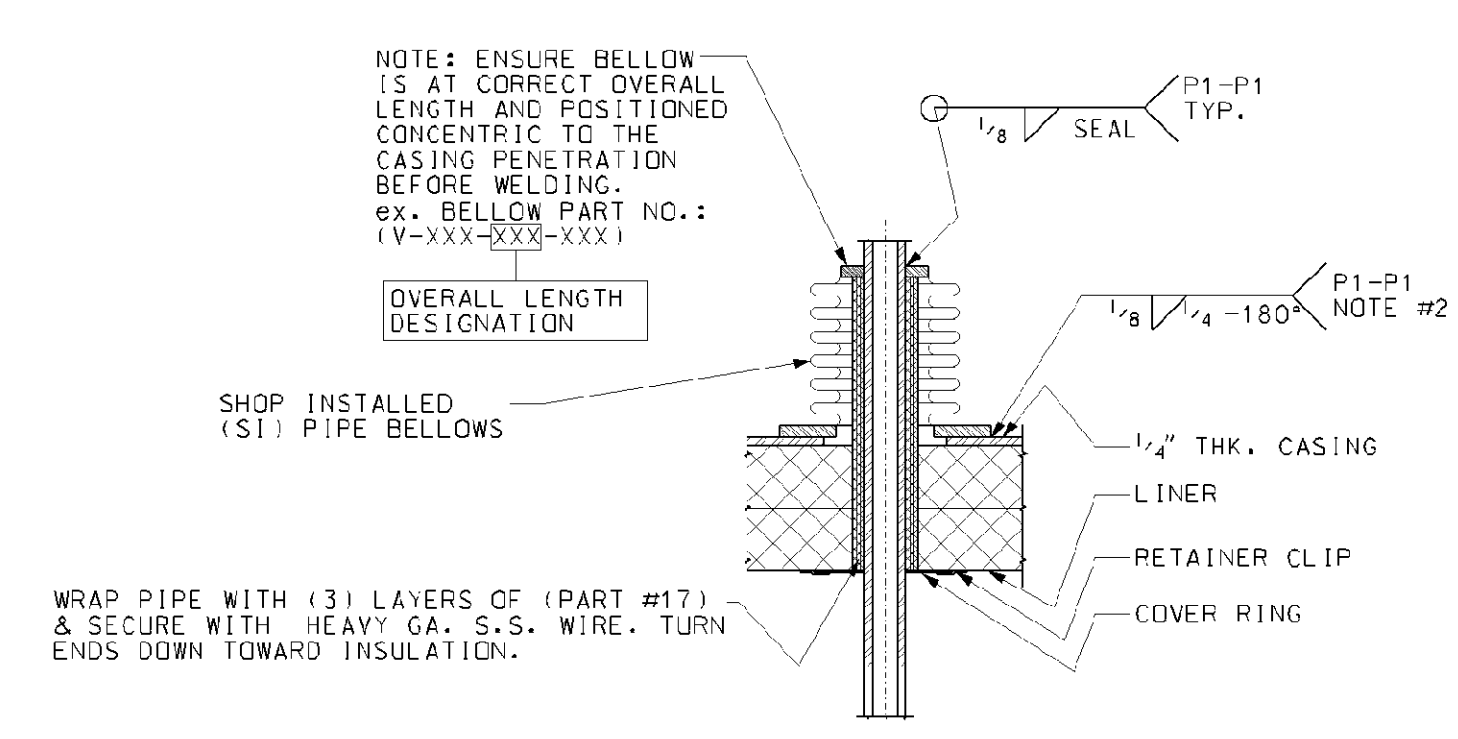
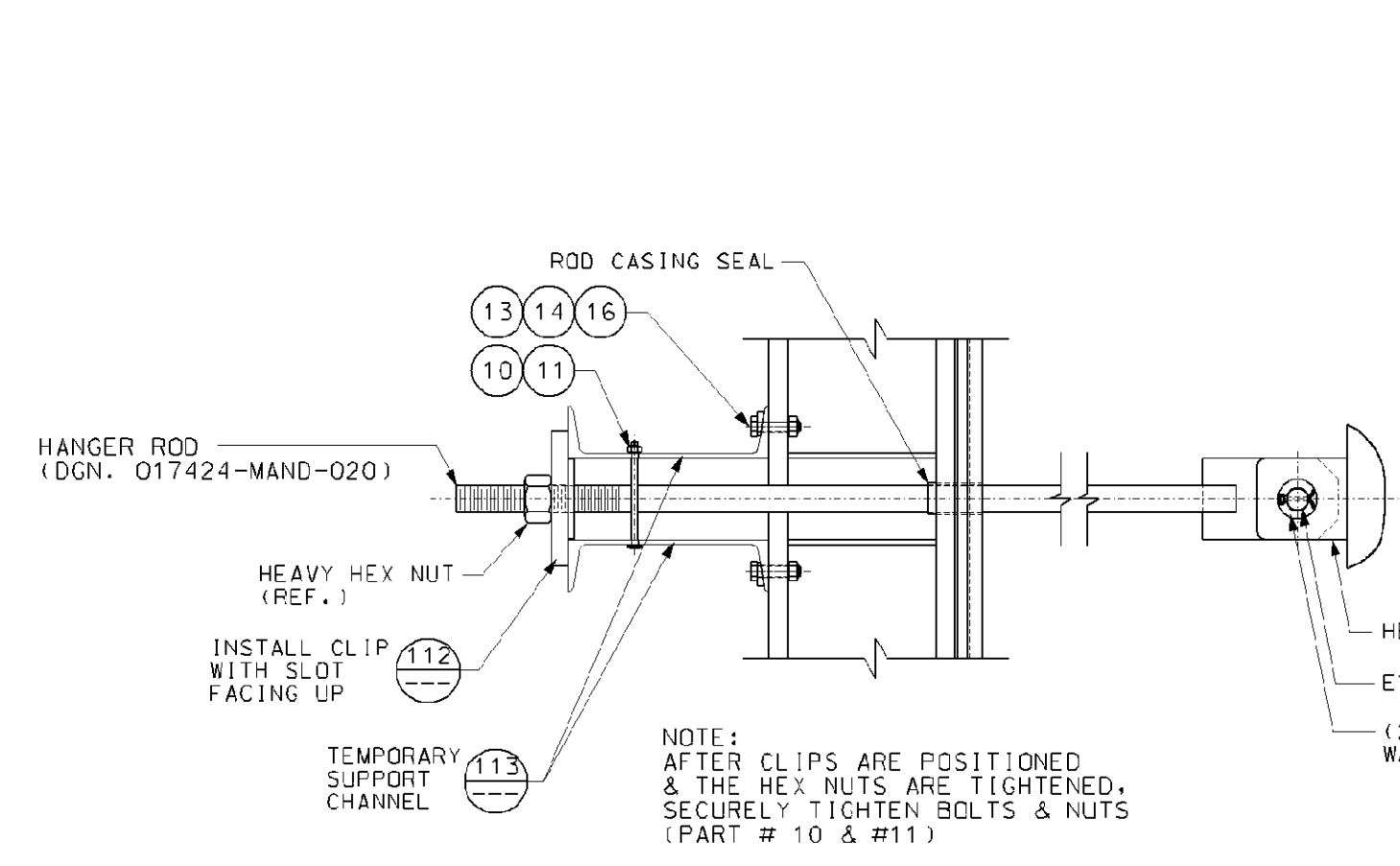
Scale: 1/4" = 1'-0"

Title: MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOXES 3A & 3B

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Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-052	00

NO EXCEPTIONS NOTED				
Release for manufacture				

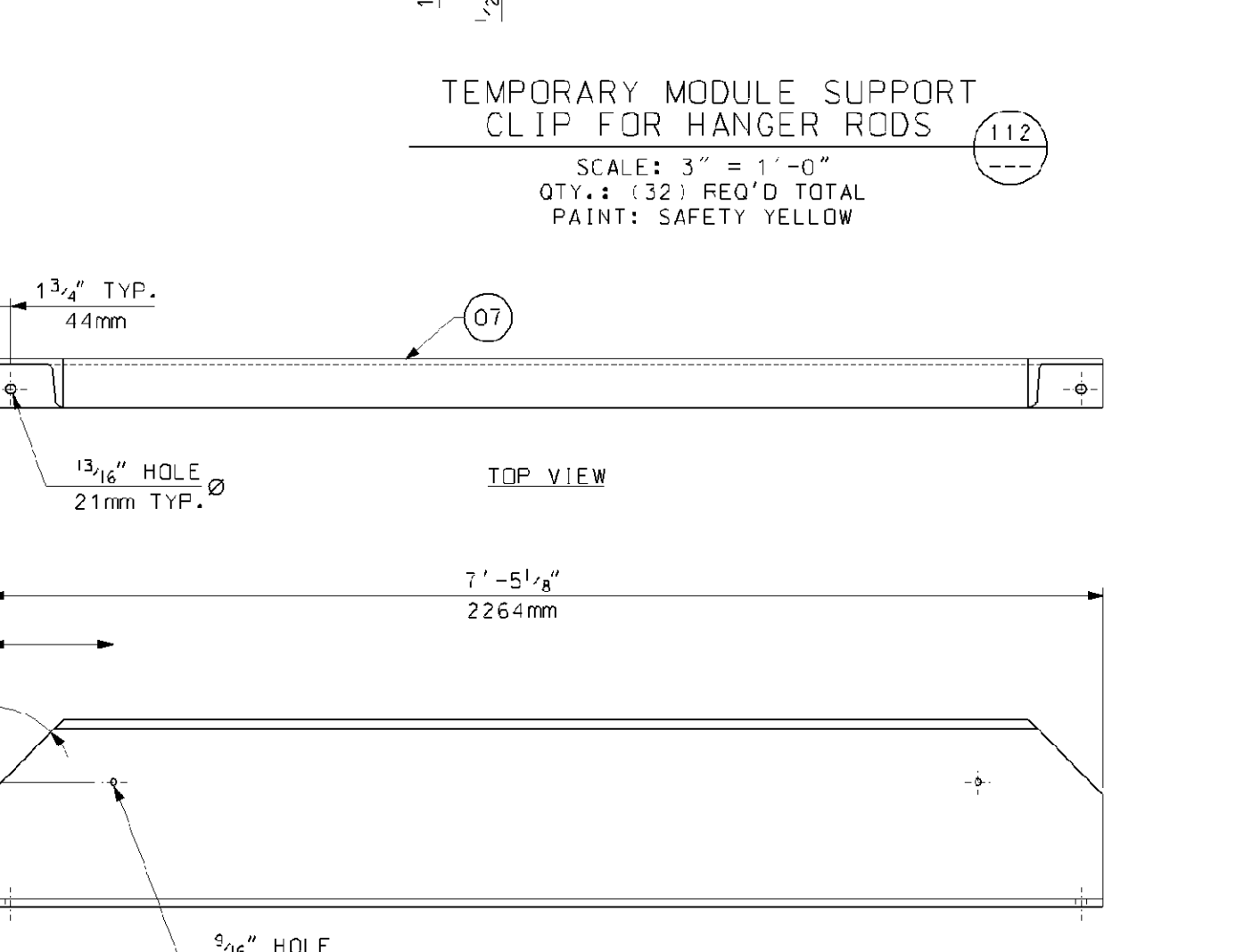
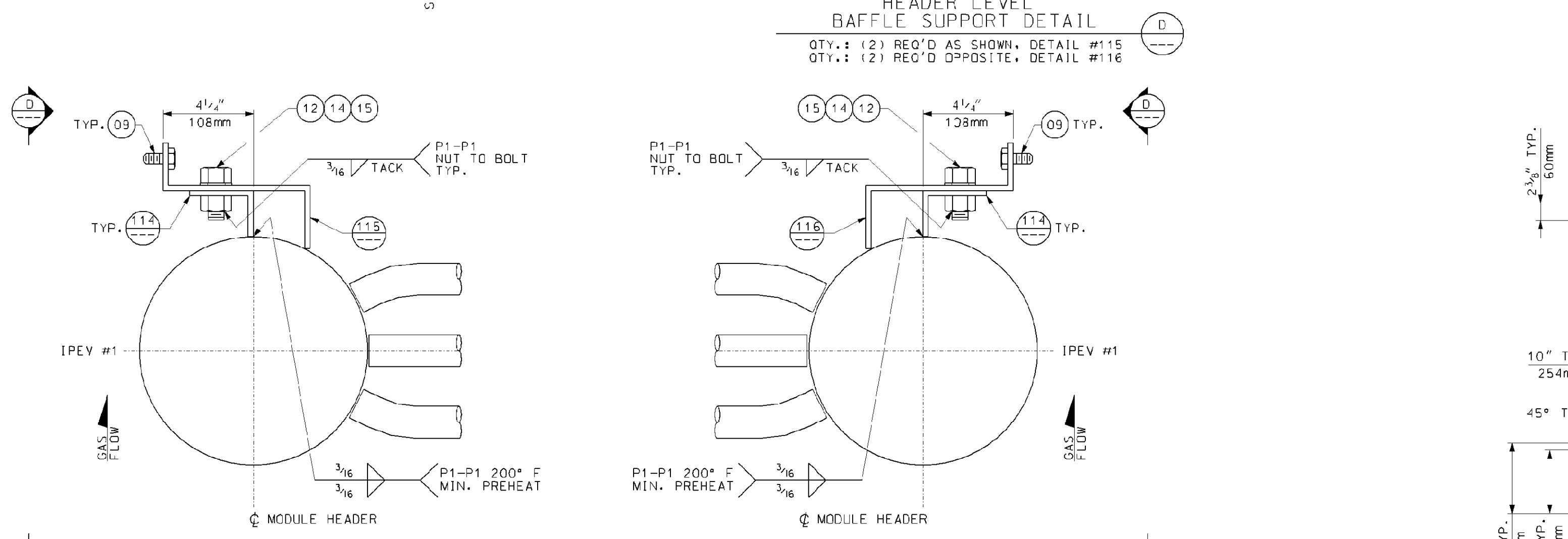
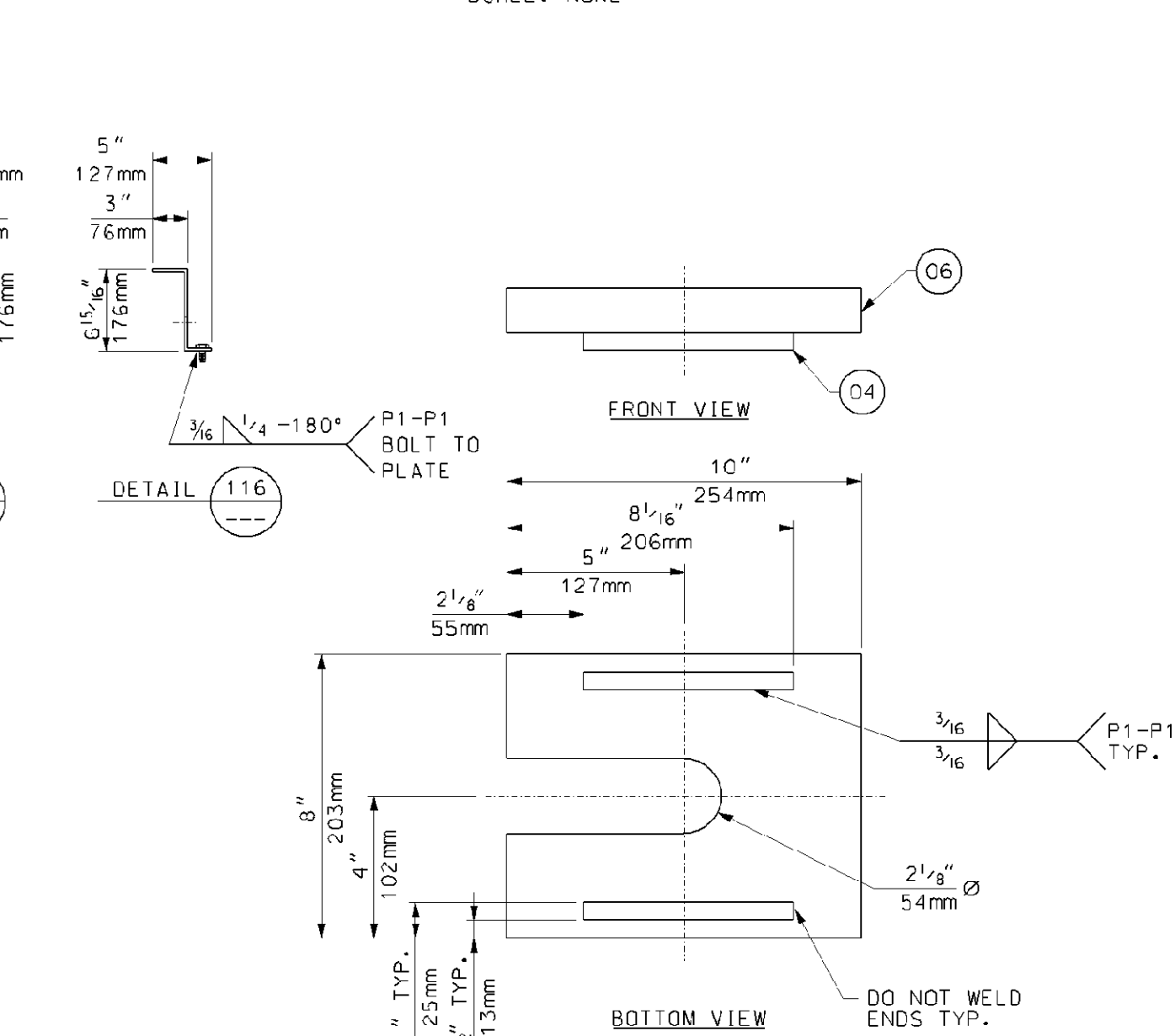
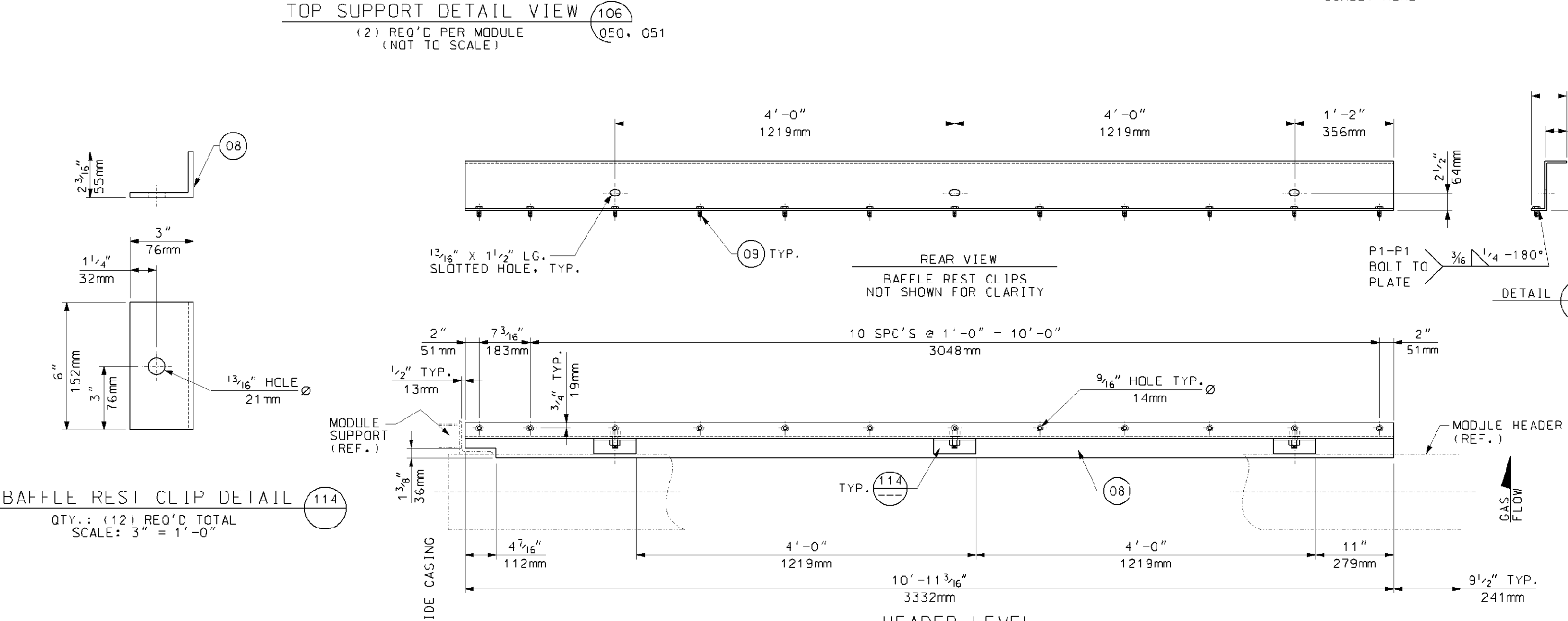


BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
04	2	SO. FT. OF PLATE, 1/2" (12mm) THK.	JIS G3101-S400
06	18	SO. FT. OF PLATE, 1/4" (32mm) THK.	JIS G3101-S400
07	60	LIN. FT. OF CHANNEL, C380x100x10.5x16	JIS G3101-S400
08	44	SO. FT. OF PLATE, 1/2" (6mm) THK.	JIS G3101-S400
09	48	HEX BOLT, 1/2" DIA. (M12) x 1 1/2" LG.	ISO 8.8
10	8	HEX BOLT, 1/2" DIA. (M12) x 7 3/4" LG.	ISO 8.8
11	8	HEX NUT, 1/2" (M12) DIA.	ISO 8.8
12	12	BOLT, 3/4" DIA. (M20) x 1 1/2" LG.	ISO 8.8
13	16	BOLT, 3/4" DIA. (M20) x 3 1/2" LG.	ISO 8.8
14	28	NUT, 3/4" DIA. (M20)	ISO 8.8
15	12	WASHER, 3/4" DIA. (M20)	ISO 8.8
16	16	BEVEL WASHER, 3/4" DIA. (M20)	ISO 8.8
17	41	SO. FT. OF PAPER INSULATION, 1/8" THK. HIGH TEMPERATURE, LOW SHRINKAGE, CERAMIC FIBER	

PART NUMBERS ARE TO HAVE THE PREFIX OF "MA" FOR EXAMPLE: "30A"(BOX ASSY.) + "04" (PART #) WOULD BE "MA30A04"

GENERAL NOTES:

- ALL WELDS IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
- BEFORE INSTALLING BELLOWS OR SEAL RINGS, PACK ANY VOID WITH INSULATION.
- QUANTITIES SHOWN FOR (1) UNIT, (1) UNIT IS REQUIRED TOTAL.



- REFERENCE DRAWINGS:**
- 017424-MAND-050 - MODULE BOX ASSEMBLY BOX #3A
 - 017424-MAND-051 - MODULE BOX ASSEMBLY BOX #3B
 - 017424-MAND-052 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOXES 3A & 3B
 - 017424-MAND-053 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-MAND-055 - ATTIC AND BASEMENT BAFFLES BOX 3
 - 017424-MAND-056 - ATTIC AND BASEMENT BAFFLES BOX 3 DETAILS

Rev.	Description	Date	Drawn	Chk'd	Appr.
0	FIRST ISSUE	08/08/06	R. DORN	JD	DP

Revisions

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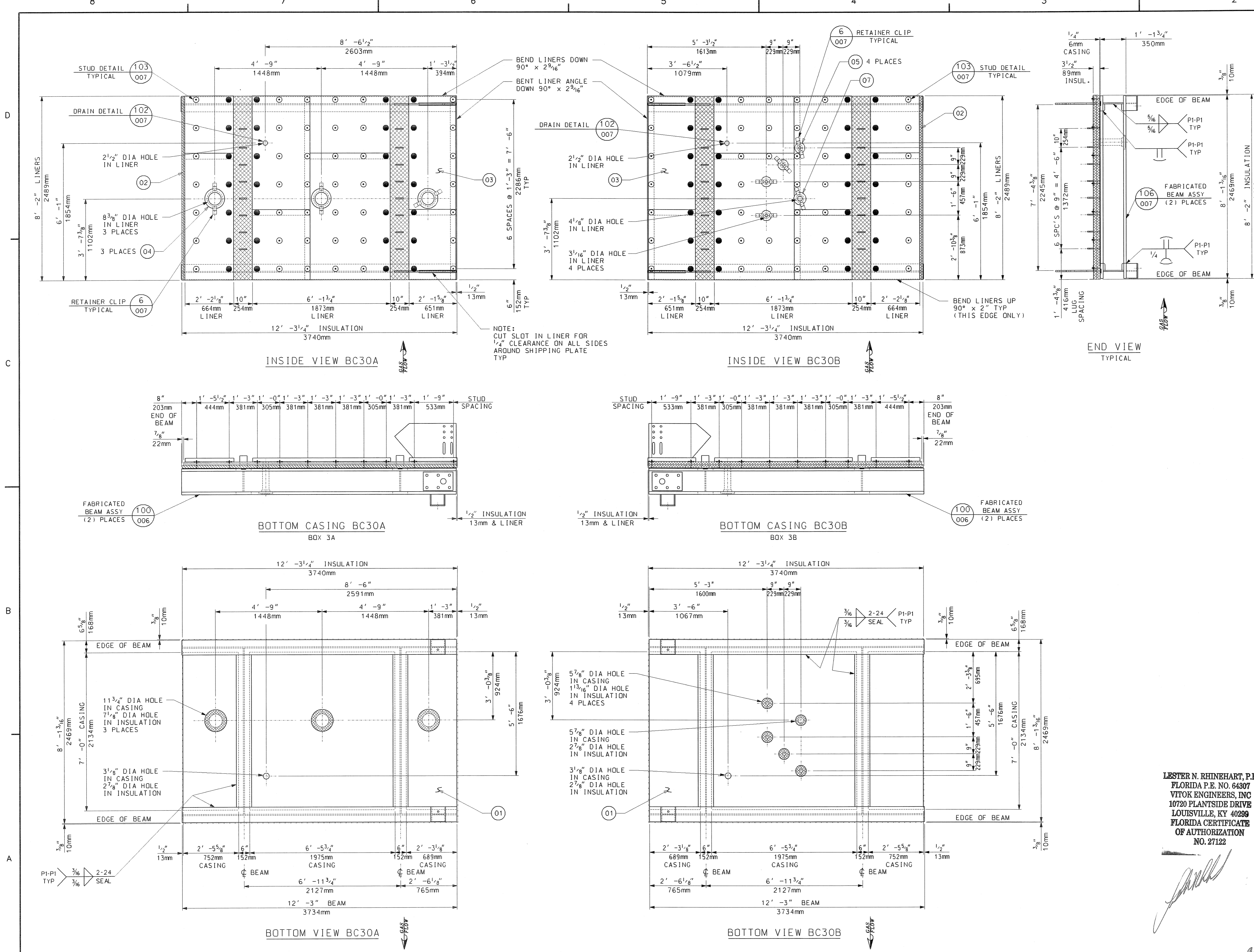
Scale: 1" = 1'-0"

Title: MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS

Internal Drawing Status: FOR RECORD
 Size: D
 Drawing No.: 017424-MAND-054
 Rev.: 00

NO EXCEPTIONS NOTED
 Release for manufacture

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BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	158	SO FT OF PLATE, 1/4" THK	JIS 3101 SS400
02	405	SO FT OF INSULATION, 2" THK, 1800°F BF DENSITY	CERAMIC FIBER
03	195	SO FT OF SHEET, 16 GA THK	A-240 TP409SS
04	3	SHEET, 16 GA THK, 10 3/4" OD x 6 3/4" ID	A-240 TP409SS
05	4	SHEET, 16 GA THK, 5 1/8" OD x 1 1/8" ID	A-240 TP409SS
07	1	SHEET, 16 GA THK, 6 1/2" OD x 2 1/2" ID	A-240 TP409SS

PART NO. ARE TO HAVE THE PREFIX "BC".
 FOR EXAMPLE, "30" (ASSEMBLY) + "01"
 (PART NUMBER) WOULD BE PART "BC3001".

- GENERAL NOTES:**
- SEE 017424-MANC-001 FOR "EQUIPMENT SPEC FOR SHOP FABRICATED MODULE BOX ASSEMBLIES".
 - ALL WELDING TO BE DONE IN ACCORDANCE WITH LATEST STANDARDS OF AWS STANDARD D1.1
 - SEAL WELD ALL STRUCTURAL MEMBERS TO CASING AND TO EACH OTHER GAS TIGHT.
 - PROVIDE A 3/4" DIA DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL BOLT HOLES ARE TO BE PUNCHED OR DRILLED.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/8" PER 1" TO GIVEN THICKNESS.
 - DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN FIELD.
 - ALL DIMENSIONS AND WELDS MARKED "TYP" APPLY TO BOX A AND B.
 - TRIM LINER AND WASHERS WITH 1/2" CLEARANCE, U.N.O. AS NECESSARY AT THE TIME OF ASSEMBLY.
 - APPROXIMATE ASSEMBLY WEIGHT: 5650 LBS PER BOX
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT, ONE (1) UNIT TOTAL REQUIRED.

REFERENCE DRAWINGS:
 017424-BCND-006 BOTTOM CASING DETAILS
 017424-BCND-007 BOTTOM CASING DETAILS
 017424-EBND-103 STANDARD FABRICATION TOLERANCE FOR TOP AND BOTTOM CASINGS

M012525-SGAS008 R0
TREASURE COAST 10/1/2006

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UTILITY ENGINEERING

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release for manufacture
 Revise and resubmit for distribution

RETURNED FOR CORRECTION
 Do not proceed
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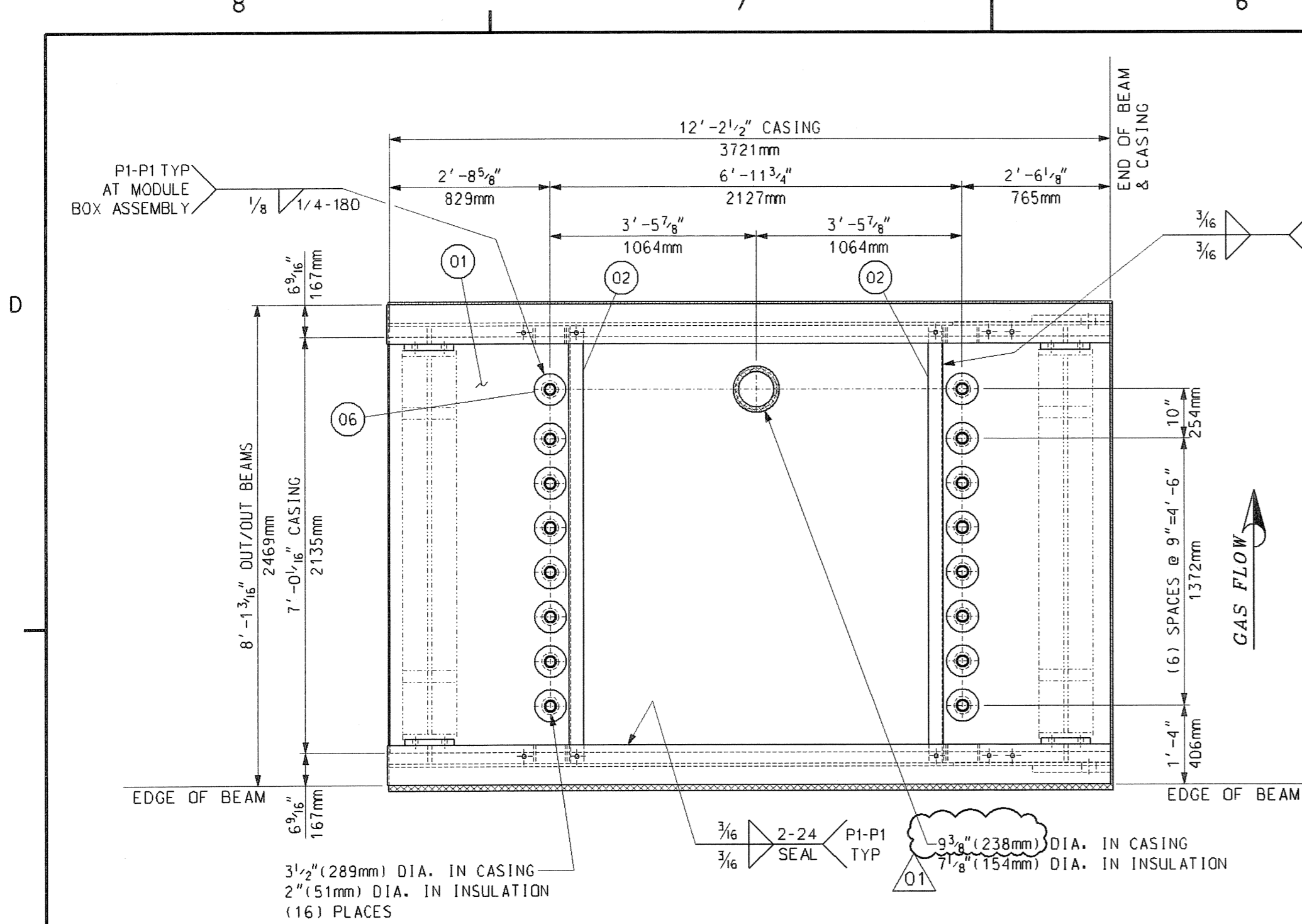
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LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
 VITOK ENGINEERS, INC
 10720 PLANTSIDE DRIVE
 LOUISVILLE, KY 40289
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 27122

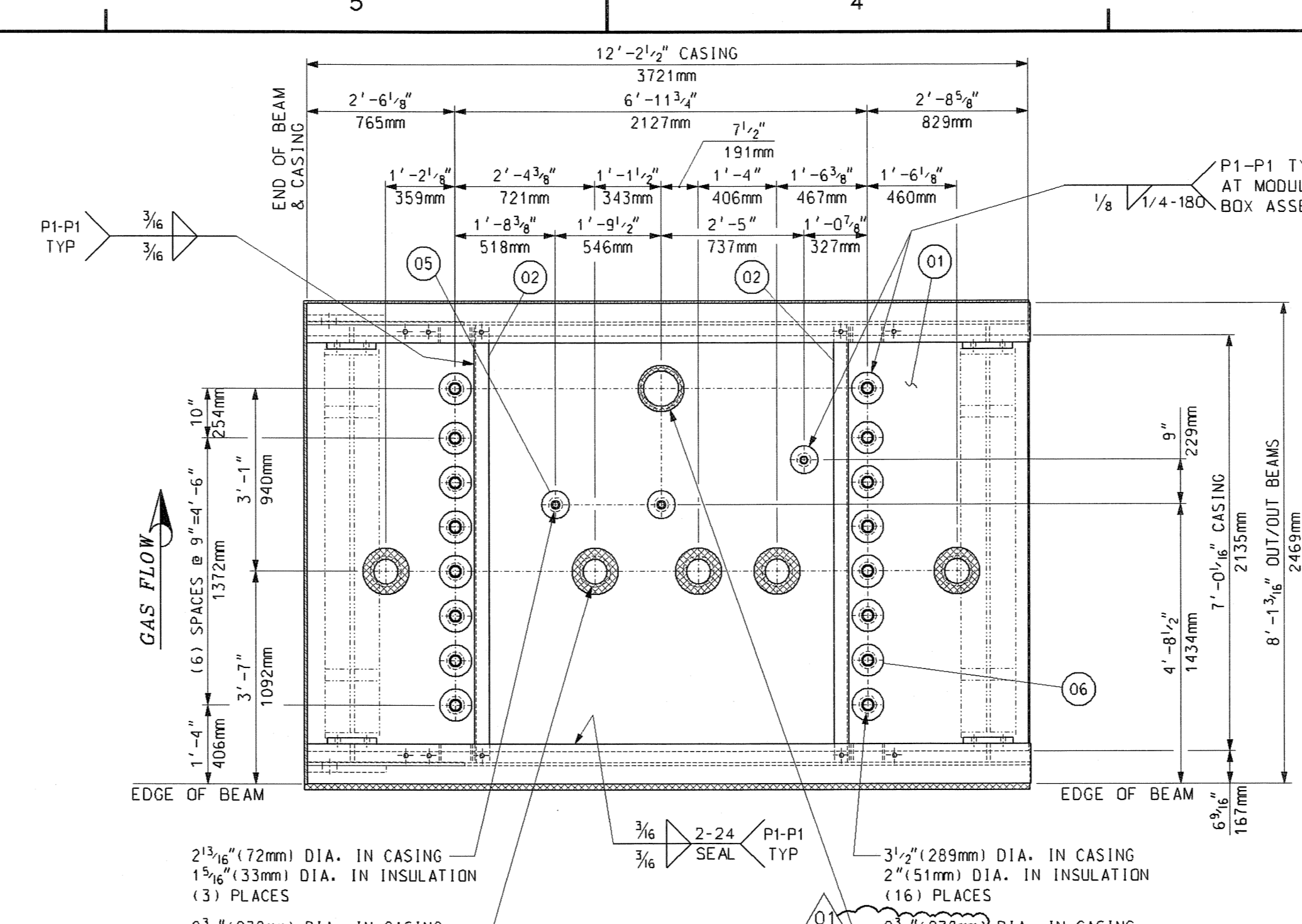
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Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-BCND-003	00

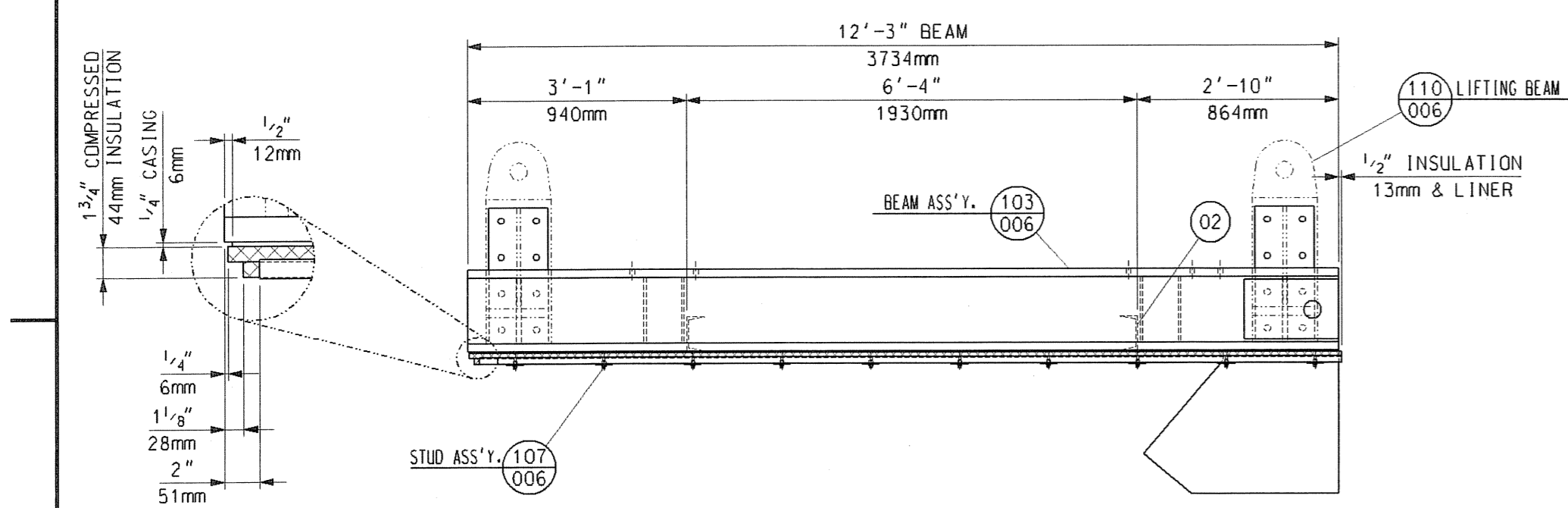
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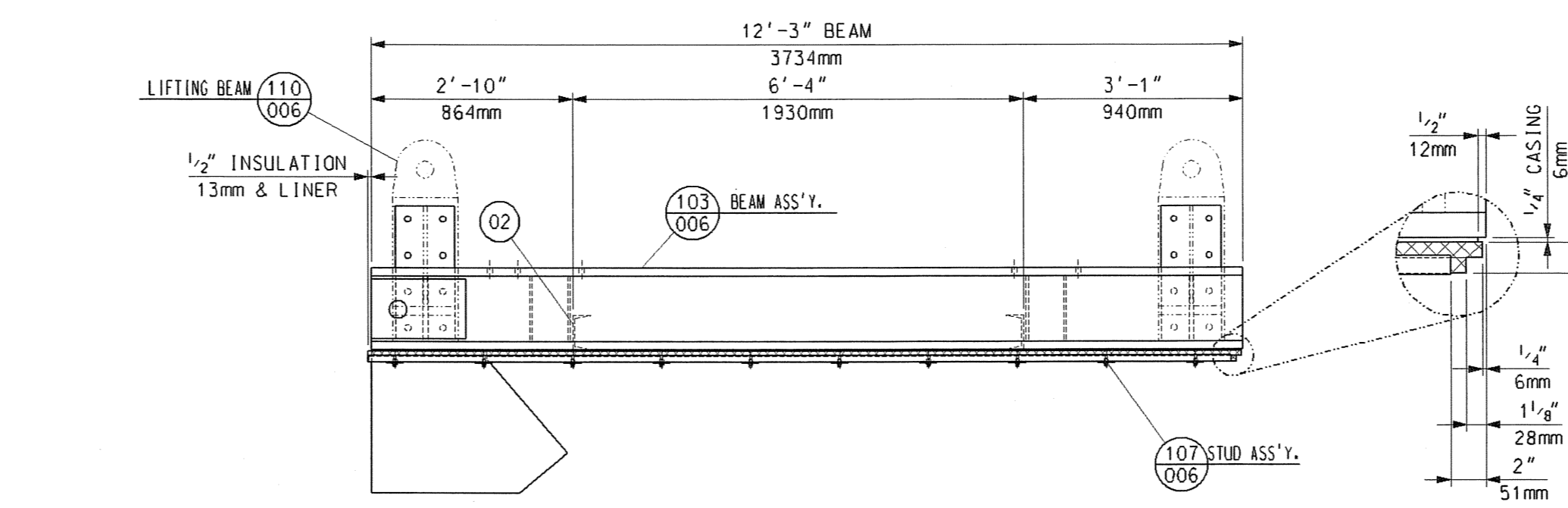
TOP CASING TC30A
PLAN VIEW



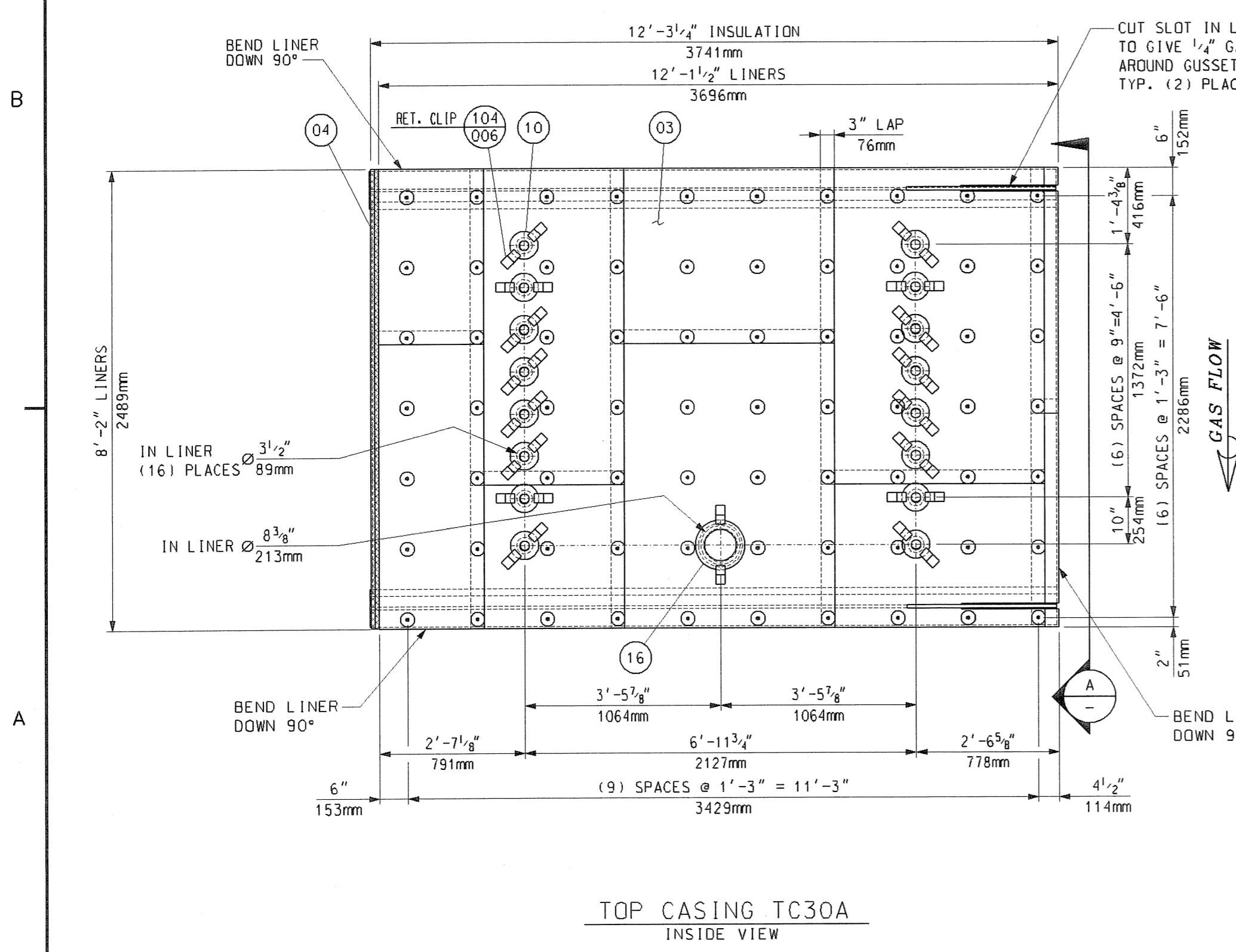
TOP CASING TC30B
PLAN VIEW



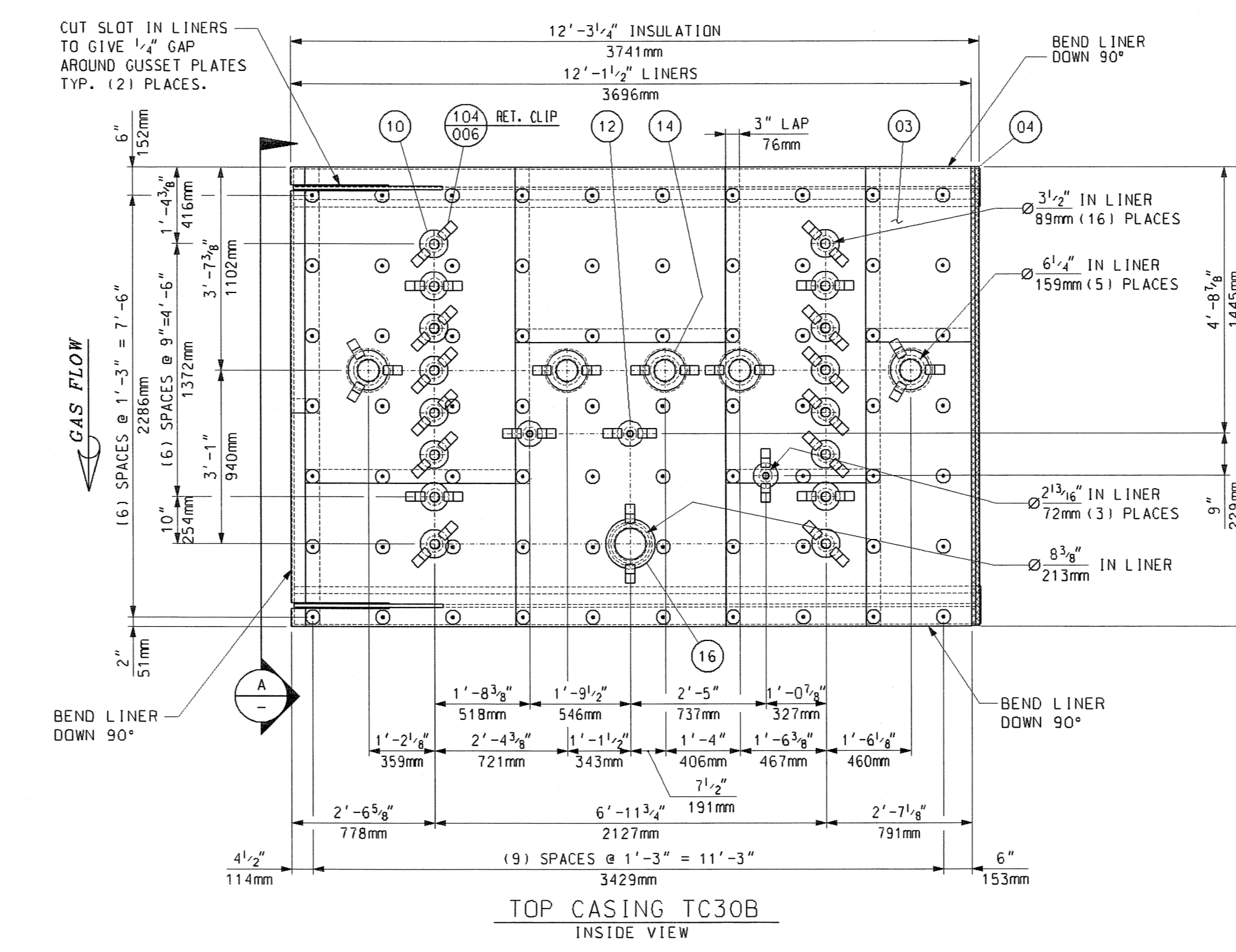
TOP CASING TC30A
FRONT VIEW



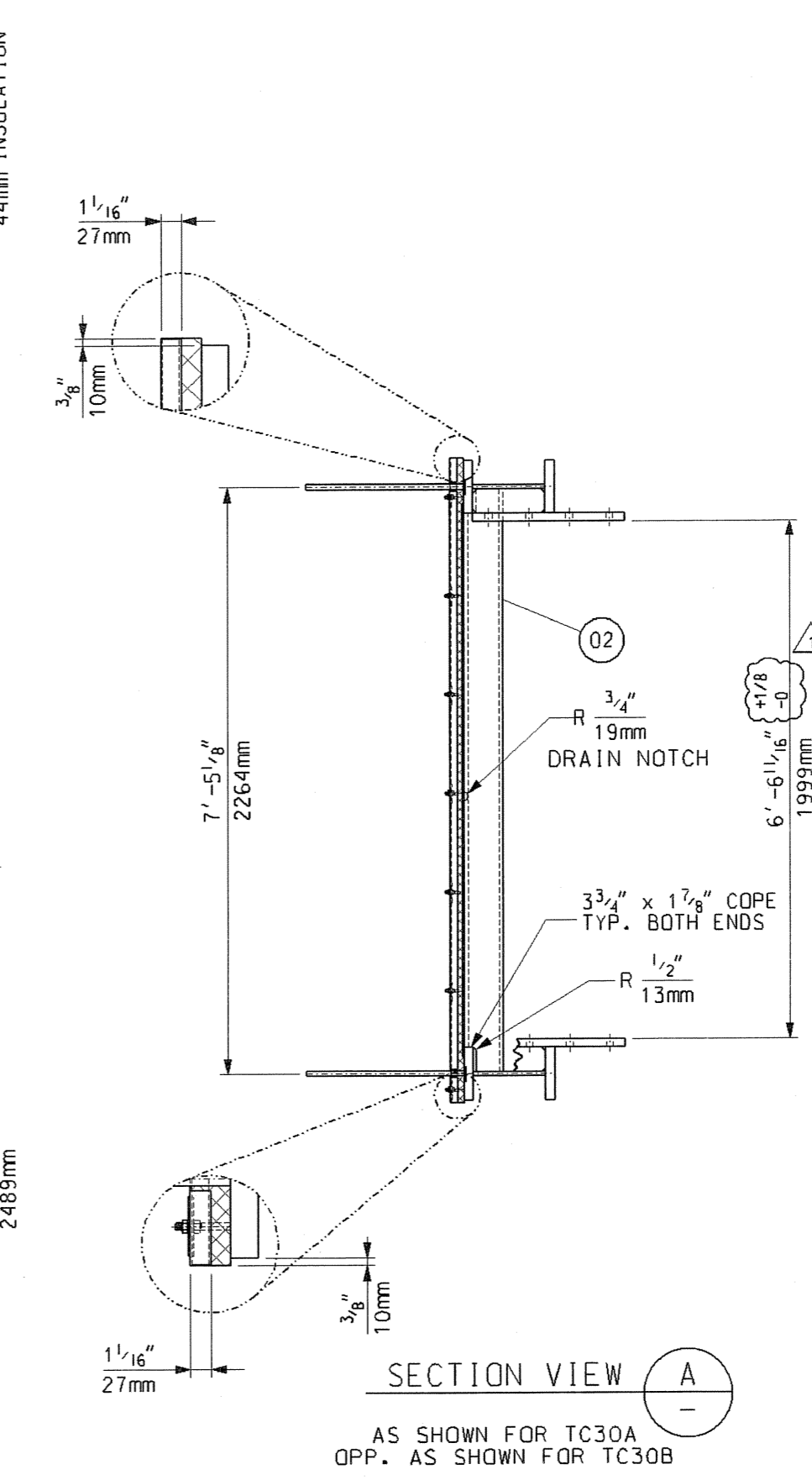
TOP CASING TC30B
FRONT VIEW



TOP CASING TC30A
INSIDE VIEW



TOP CASING TC30B
INSIDE VIEW



SECTION VIEW A
AS SHOWN FOR TC30A
OPP. AS SHOWN FOR TC30B

BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	2	PLATE, 1/2\"/>	JIS	3101-SS400
02	4	CHANNEL, C150x75x6.5x10 x 7'-4 3/8\"/>	JIS	3101-SS400
03	200	SO. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-240	TP409
04	400	SO. FT. OF INSULATION 1\"/>	CERAMIC	FIBER
05	3	SHEET, 10 GA. (3.5mm) THK. 6\"/>	A568	
06	32	SHEET, 10 GA. (3.5mm) THK. 6\"/>	A568	
10	32	SHEET, 16 GA. (1.5mm) THK. 6\"/>	A-240	TP409
12	3	SHEET, 16 GA. (1.5mm) THK. 5 1/2\"/>	A-240	TP409
14	5	SHEET, 16 GA. (1.5mm) THK. 8 3/4\"/>	A-240	TP409
16	2	SHEET, 16 GA. (1.5mm) THK. 10 3/4\"/>	A-240	TP409
103	2	BEAM ASSEMBLY	SHT	006
104	86	RETAINER CLIP	SHT	006
107	140	STUD DETAIL	SHT	006
110	2	LIFTING BEAM ASSEMBLY (FIELD INSTALLED)	SHT	006

PART NUMBERS TO HAVE THE PREFIX "TC30". FOR EXAMPLE PART No. 01 WOULD BE TC3001.

- GENERAL NOTES:
- SEE 017424-TCND-001 FOR GENERAL NOTES
 - APPROXIMATE ASSEMBLY WEIGHT: 5,300 LBS. EA.
 - QTY. SHOWN FOR ONE (1) UNIT, ONE (1) UNIT IS REQ'D TOTAL.

REFERENCE DRAWINGS:

FYI

M012525-SGAS079 R2
TREASURE COAST 10/1/2006

5	ADDED DIMENSIONAL TOLERANCE BETWEEN LUGS	06/20/06	MAS	JD				
1	REVISED HOLE DIA. IN CASING	06/12/06	SJudd	MAS				
0	FIRST ISSUE	06/01/06	SJudd	JD	LNR	DP		

Revisions
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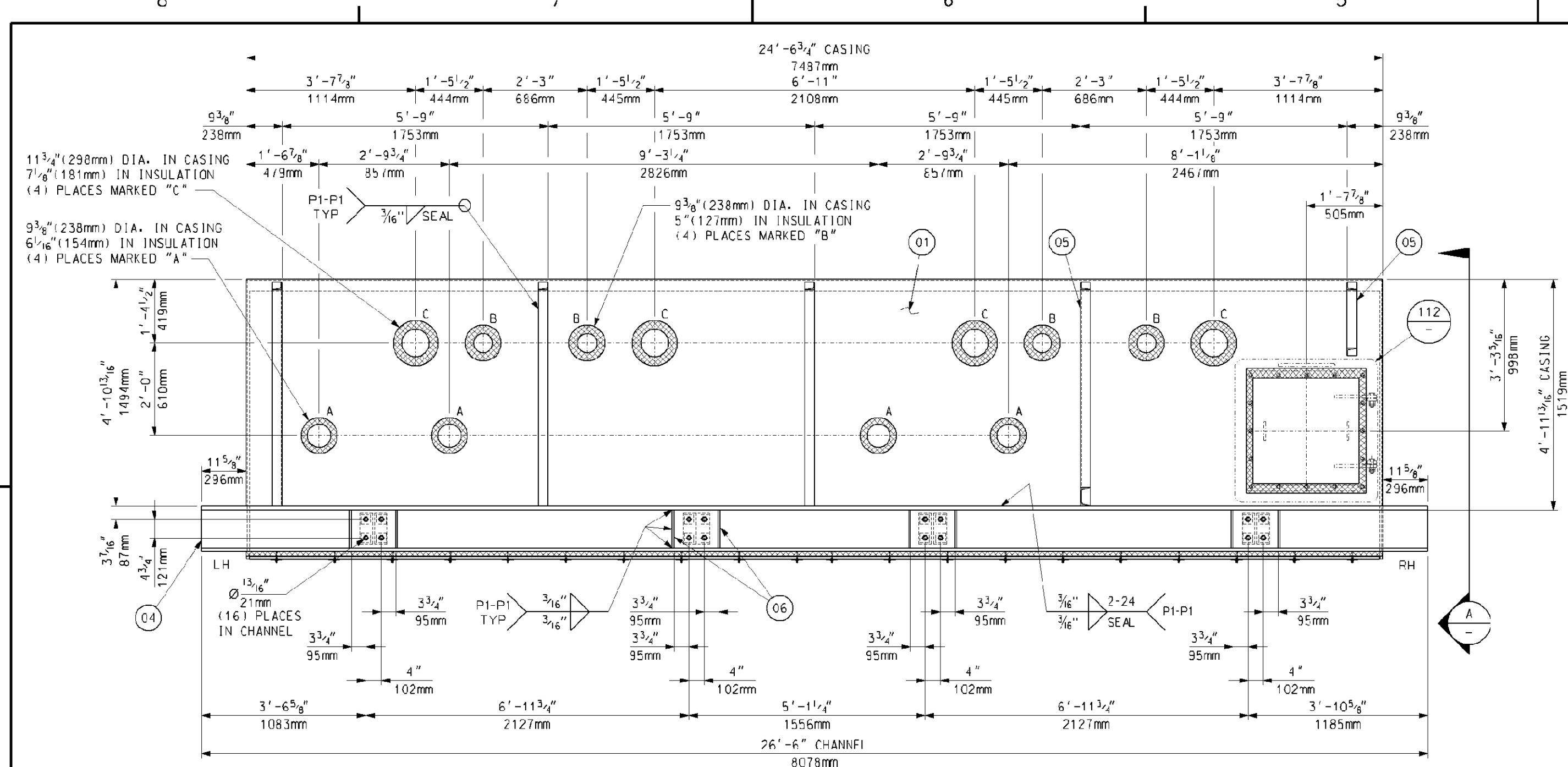
Title
 TOP CASING ASSEMBLIES
 TC30 (BOX 3A & 3B)



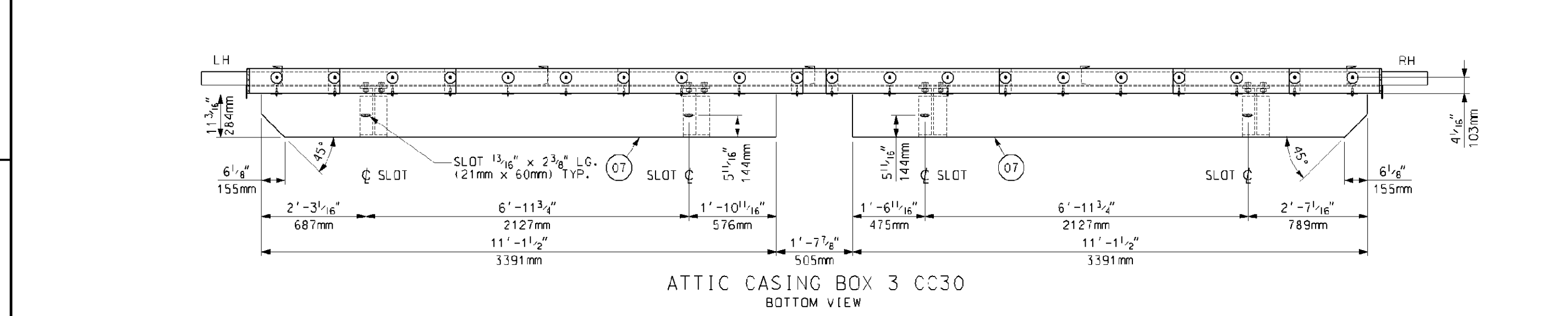
Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-TCND-003	02

LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
 VITOK ENGINEERS, INC
 10720 PLANTSIDE DRIVE
 LOUISVILLE, KY 40299
 FLORIDA CERTIFICATE
 OF AUTHORIZATION
 NO. 27122

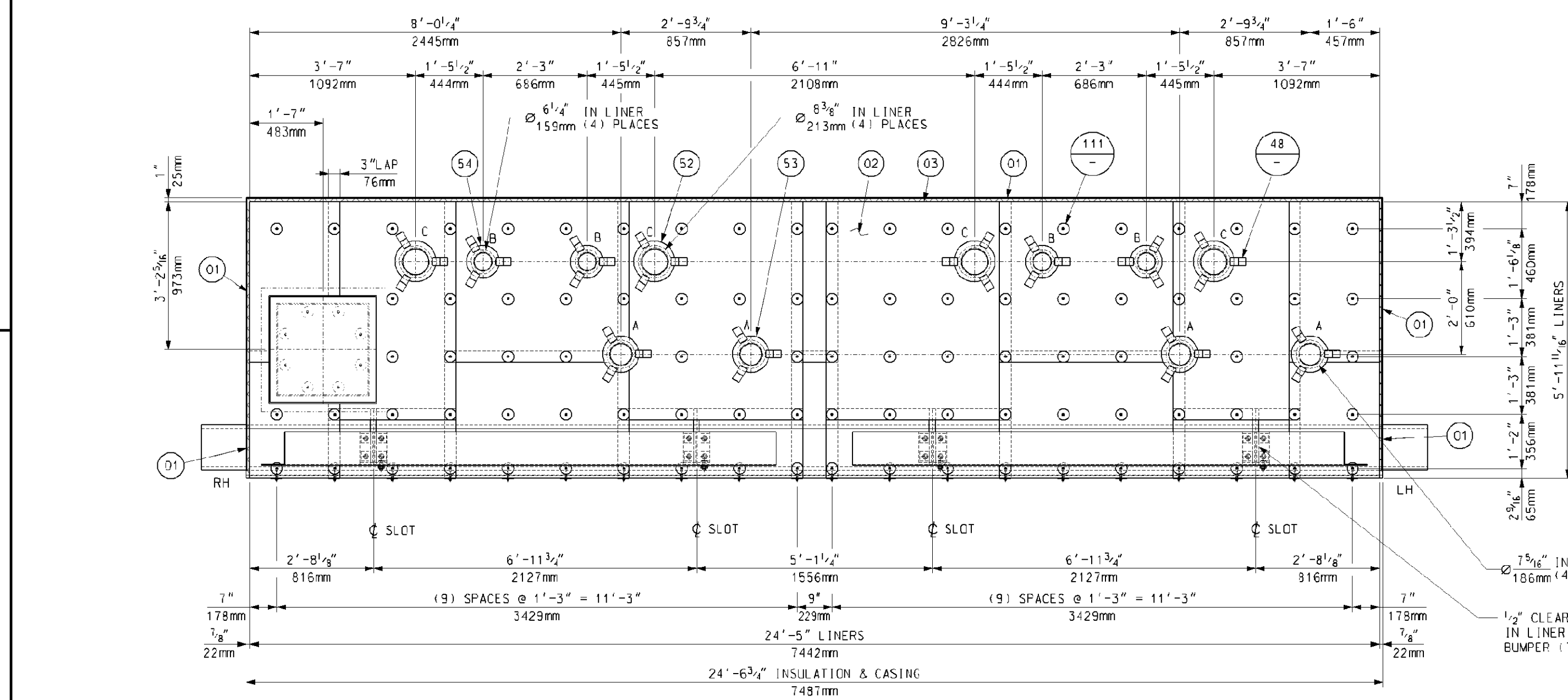
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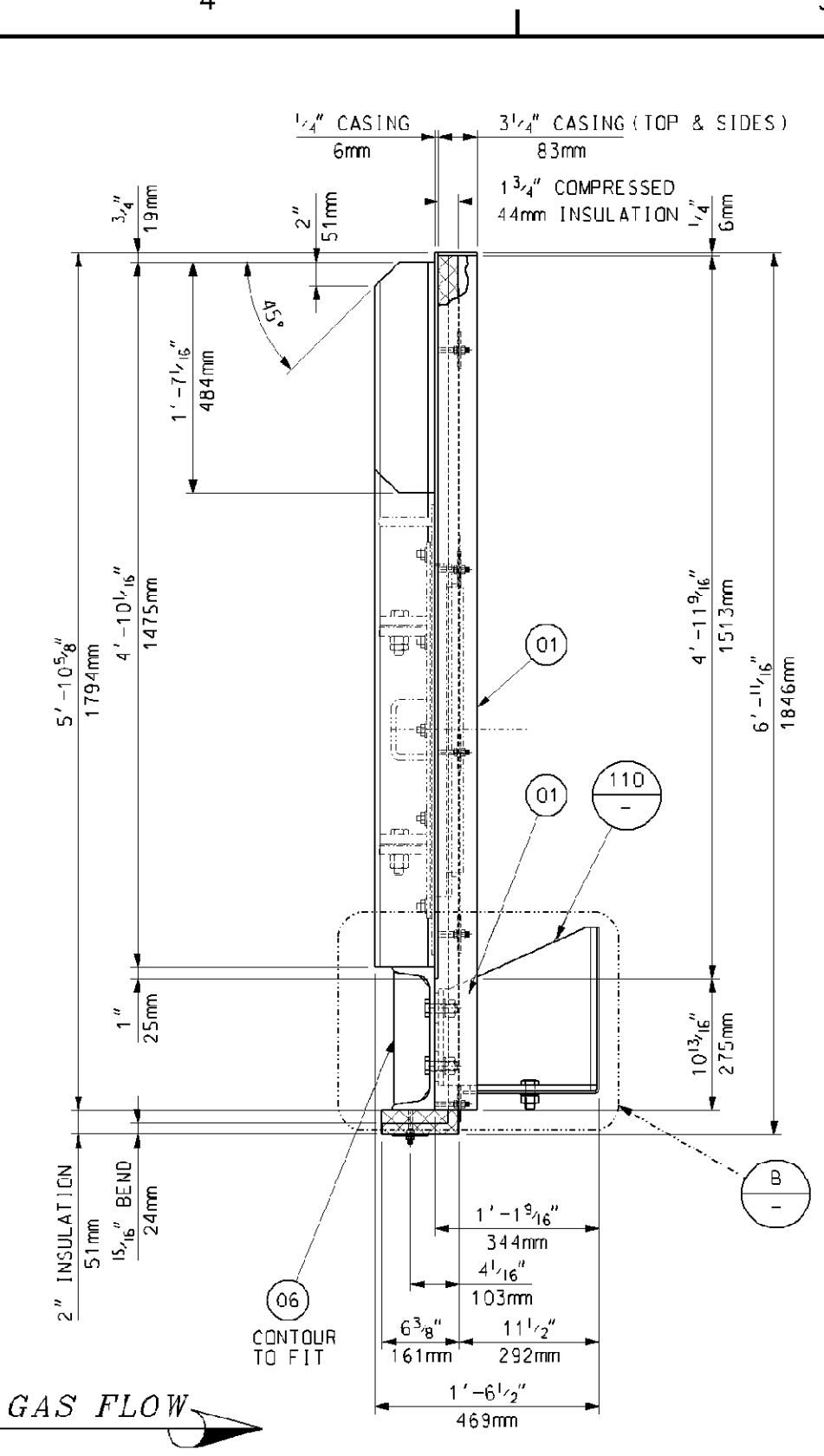
ATTIC CASING BOX 3 CC30
OUTSIDE ELEVATION



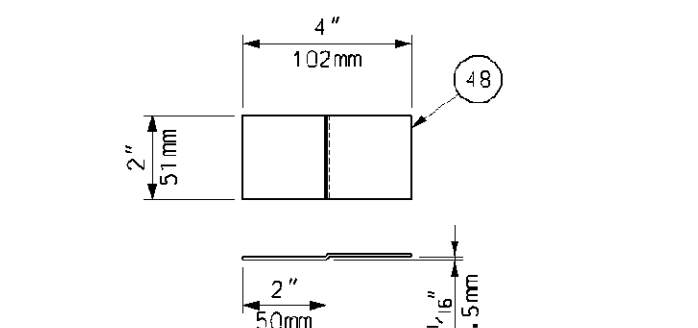
ATTIC CASING BOX 3 CC30
BOTTOM VIEW



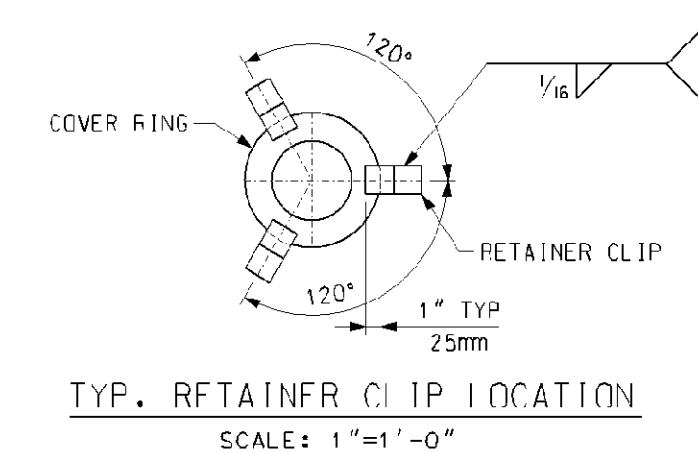
ATTIC CASING BOX 3 CC30
INSIDE ELEVATION



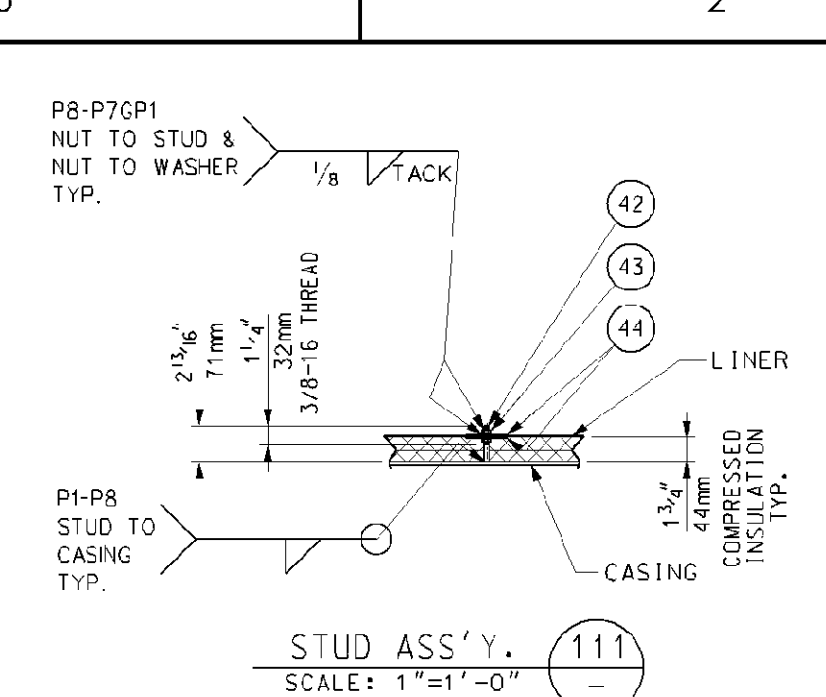
SECTION VIEW A
SCALE: 1"=1'-0"



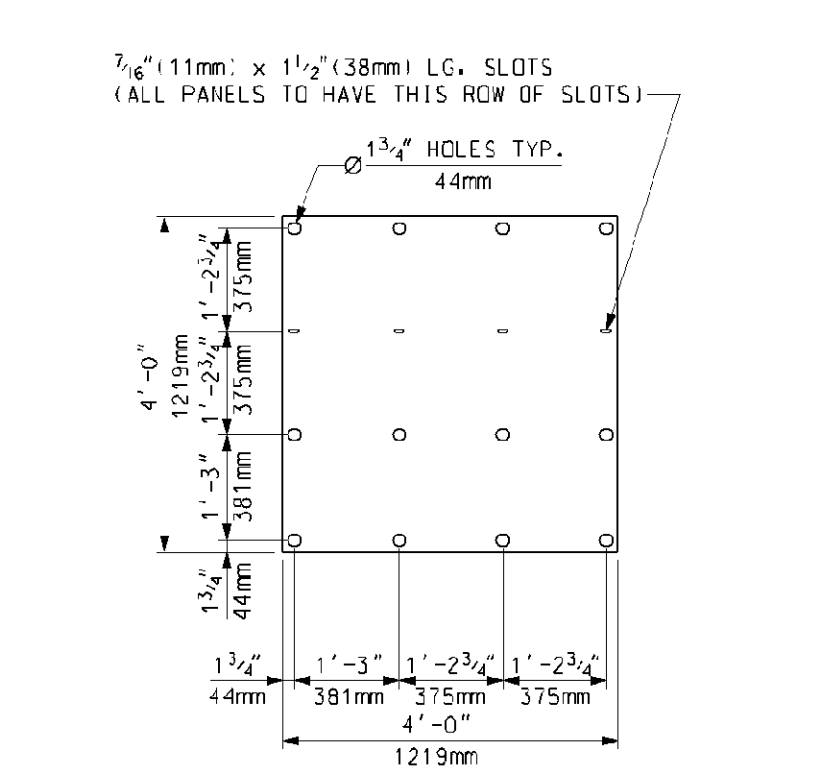
RETAINER CLIP 48
SCALE: 3"=1'-0"



TYP. RETAINER CLIP LOCATION
SCALE: 1"=1'-0"

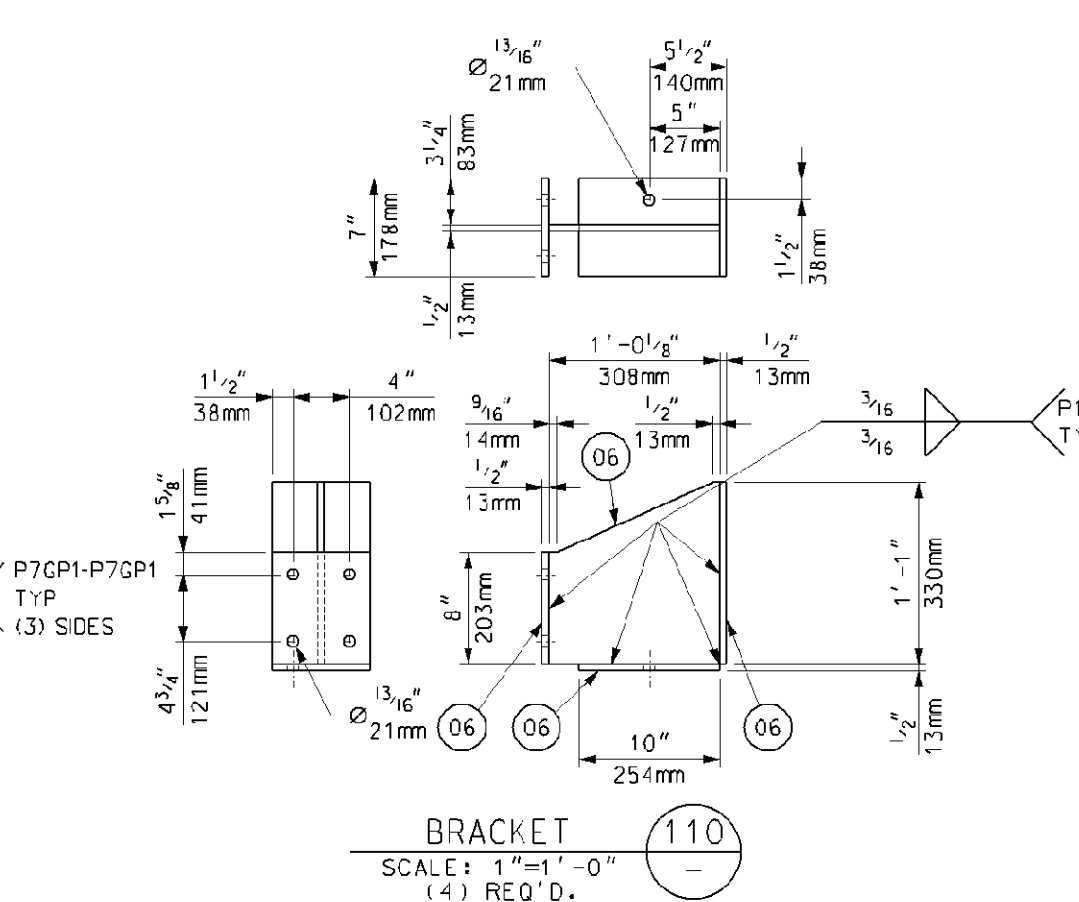


STUD ASS'Y. 111
SCALE: 1"=1'-0"

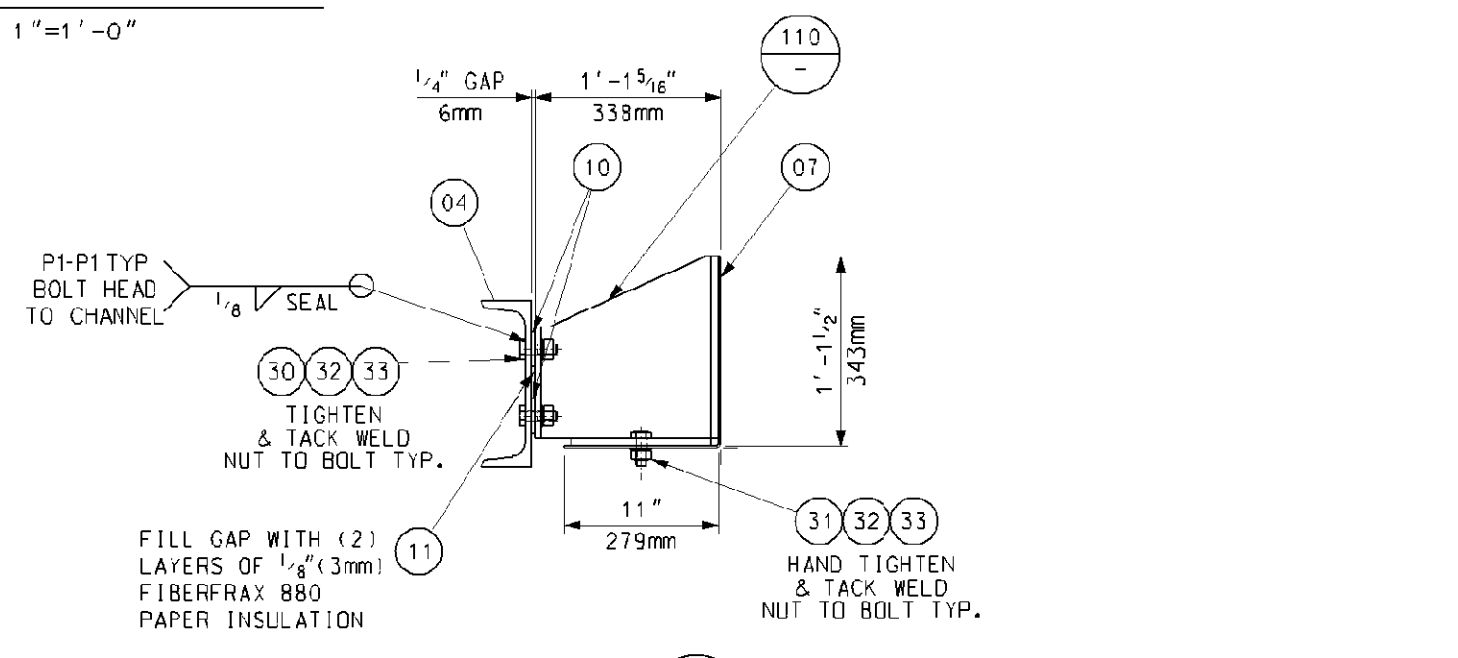


GENERAL LINER PANEL DETAIL

NOTE: THIS DETAIL IS TO BE USED AS AN EXAMPLE OF THE LINER PANEL HOLE / SLOT SIZES AND THE ADJUSTMENTS FOR EXPANSION; REFER TO THE ASSEMBLY DRAWINGS FOR STUD LOCATIONS AND LINER EDGE DISTANCES.



BRACKET 110
SCALE: 1"=1'-0"
(4) REQ'D.



DETAIL VIEW B
SCALE: 1"=1'-0"

BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	135	SO. FT. OF PLATE, 1/2" THK.	JIS 3101-SS400
02	204	SO. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-240 TP409
03	312	SO. FT. OF INSULATION 1" THK. 1800°F 8# DENSITY CERAMIC FIBER	F5414 P104
04	27	LIN. FT. OF CHANNEL, C300x30x3x13	JIS 3101-SS400
05	21	LIN. FT. OF CHANNEL, C125x65x6x8	JIS 3101-SS400
06	13	SO. FT. OF PLATE, 1/2" THK.	JIS 3101-SS400
07	46	SO. FT. OF PLATE, 3/8" THK.	JIS 3101-SS400
10	16	WASHER, 1/2" THK., 2 1/2" SO. x 1 3/8" ID	JIS 3101-SS400
11	4	SO/FT 1/2"(3MM) FIBERFRAX 880 PAPER INSULATION	
30	16	20mm HEX HD. BOLT x 60mm LG.	ISO10.9
31	8	20mm HEX HD. BOLT x 50mm LG.	ISO10.9
32	24	20mm HEAVY HEX NUT	ISO10.9
33	24	20mm FLAT WASHER	ISO10.9
42	112	STUD, 3/8" DIA. x 2 3/8" LG.	A-478 TP304
43	224	HFx NUT, 3/8-16 (BF) AR SCREWS	F5414 P104
44	224	WASHER, 14 GA. (1.2mm) THK. 3" OD x 3/16" ID	A-240 TP409
48	36	SHEET, 16 GA. (1.5mm) 2" x 4" LG.	A-240 TP409
52	4	SHEET, 16 GA. (1.5mm) 10 3/2" OD x 6 3/2" ID	A-240 TP409
53	4	SHEET, 16 GA. (1.5mm) 9 1/2" OD x 5 1/2" ID	A-240 TP409
54	4	SHEET, 16 GA. (1.5mm) 8 5/8" OD x 4 5/8" ID	A-240 TP409
110	4	BRACKET	
111	111	STUD ASSEMBLY	
112	1	ACCESS DOOR ASSEMBLY (DR70)	017424-DRND-011

PART NUMBERS ARE TO HAVE PREFIX "CC30" FOR EXAMPLE, "01" WOULD BE "CC3001"

- GENERAL NOTES:
- SEE 017424-MANC-001 FOR "EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLIES."
 - ALL WELDING TO BE IN ACCORDANCE WITH LATEST STANDARDS OF AMERICAN WELDING SOCIETY, STANDARD D1.1 USING FEXX=70KSI ELECTRODES.
 - SEAL WELD ALL STRUCTURALS TO CASING AND TO EACH OTHER. ALL PRESSURE CASING TO BE SEAL WELDED GAS TIGHT.
 - ALL STEEL WORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
 - PROVIDE A 3/4" DIA. DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/2" PER 1" TO GIVEN THICKNESSES.
 - APPROXIMATE ASSEMBLY WEIGHT: 3,725 LBS. EA.
 - QTY. SHOWN FOR ONE (1) UNIT. ONE (1) UNIT IS REQ'D TOTAL.

- REFERENCE DRAWINGS:
- 017424-DRND-011 - 24" x 24" ACCESS DOOR (DR70) WITH 2" PLUG ASSEMBLY
 - 017424-EBND-102 - STANDARD FABRICATION TOLERANCES FOR ATTIC & BASEMENT PANELS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
1	REVISED MATERIAL PART No. 41	07/07/06	Sludd	RNC	GH DP
0	FIRST ISSUE	06/06/06	Sludd	RNC	GH DP

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ATTIC PANEL ASSEMBLY
INLET BOX 3 (CC30)

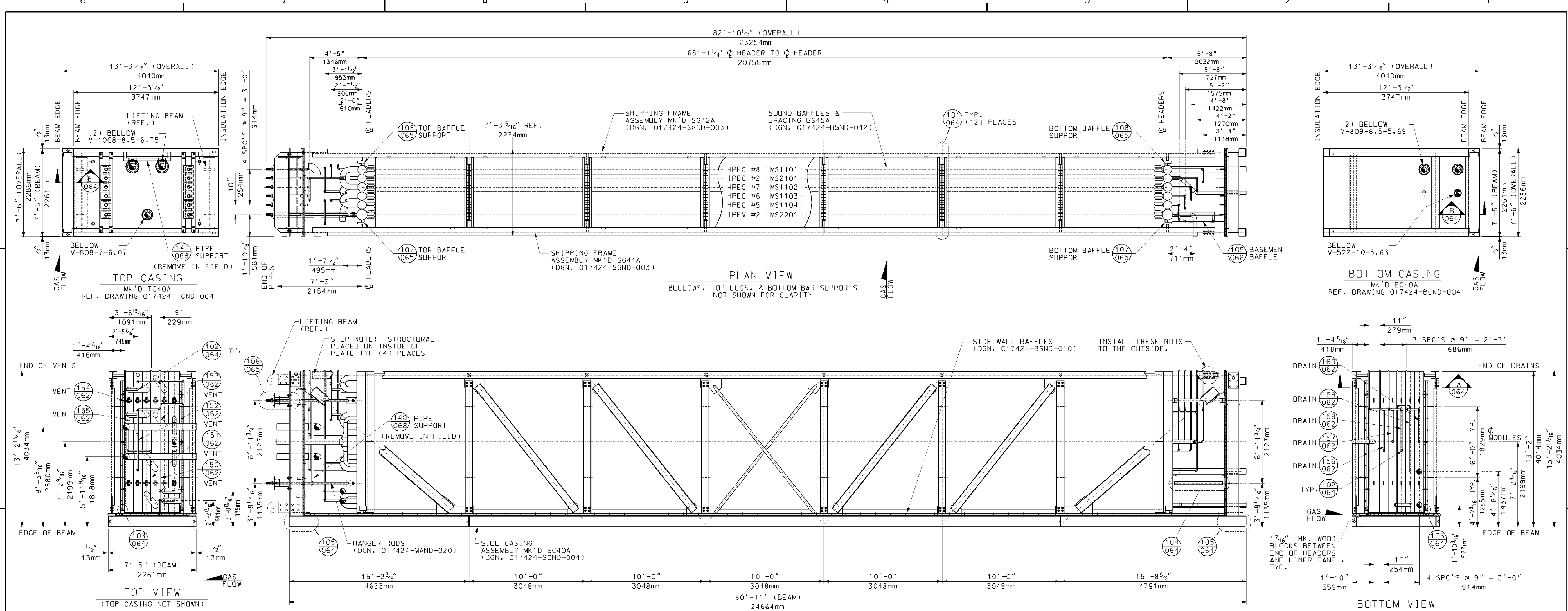


Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-CCND-005	01

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
Release for manufacture

MODULE 4



FRONT VIEW
 BELLOWS, HEADER LEVEL BAFFLE SUPPORTS,
 AND BASEMENT BAFFLES
 NOT SHOWN FOR CLARITY

- GENERAL NOTES:**
1. INSTALL 1 1/4" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
 2. ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 3. ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
 4. APPROXIMATE ASSEMBLY WEIGHT: 262,000 LBS.
 5. ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
 6. QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNIT IS REQ'D.

- REFERENCE DRAWINGS:**
1. 017424-MAND-061 - MODULE BOX ASSEMBLY BOX #4B
 2. 017424-MAND-062 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOX 4A
 3. 017424-MAND-063 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOX 4B
 4. 017424-MAND-064 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 5. 017424-MAND-065 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 6. 017424-MAND-066 - BASEMENT BAFFLES BOX 4
 7. 017424-MAND-067 - BASEMENT BAFFLES BOX 4 DETAILS
 8. 017424-MAND-068 - MODULE BOX ASSEMBLY PIPE SUPPORT DETAILS BOX 4A
 9. 017424-BCND-004 - BOTTOM CASING - BOX 4A & 4B (BC40A & BC40B)
 10. 017424-BSND-010 - SIDE GAS BAFFLES (BOXES 1A THRU 5A) SHOP INSTALLED
 11. 017424-BSND-042 - BOX #4 (A&B) SOUND BAFFLES AND BRACING
 12. 017424-EBND-111 - STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 13. 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 14. 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 15. 017424-MAND-020 - MODULE TDP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 3-5
 16. 017424-MSND-021 - IPEV2 - MS2201 BOX 4
 17. 017424-MSND-022 - HPEC5 - MS1104 BOX 4
 18. 017424-MSND-023 - HPEC6 - MS1103 BOX 4
 19. 017424-MSND-024 - HPEC7 - MS1102 BOX 4
 20. 017424-MSND-025 - IPEC2 - MS2101 BOX 4
 21. 017424-MSND-027 - HPEC8 - MS1101 BOX 4
 22. 017424-SCND-004 - SIDE CASING ASSEMBLY BOX 4 SC40A & SC40B
 23. 017424-SCND-003 - SHIPPING FRAME BOX #3, 4, & 5 (A & B)
 24. 017424-TCND-004 - TOP CASING ASSEMBLIES TC40 (BOX 4A & 4B)

5					
4					
3					
2					
1					
0	FIRST ISSUE	07/25/06	SP	JD	DP
Rev.	Description	Date	Drawn	Chk'd	Appr.

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 Vogt Power Project 17424

Vogt Power International
 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VogtPower.com

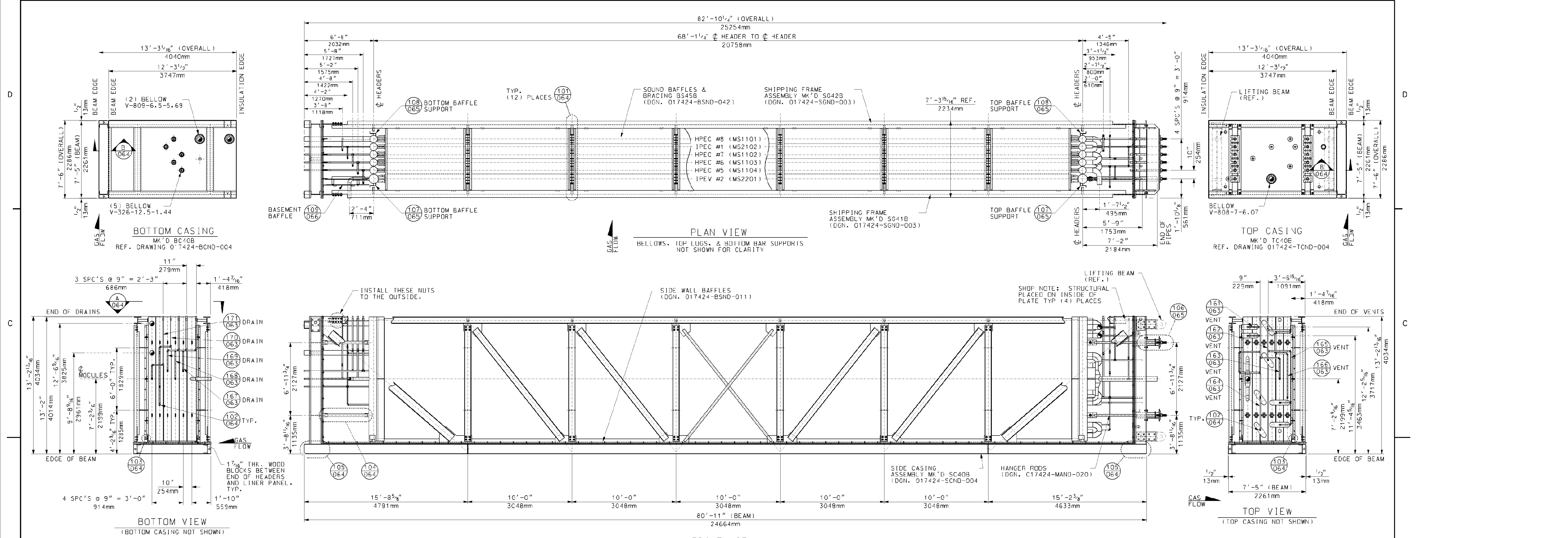
Scale: 1/2" = 1'-0"

Title: **MODULE BOX ASSEMBLY BOX # 4A MK'D MA40A**

Internal Drawing Status: **FOR RECORD** Size: **D** Drawing No.: **017424-MAND-060** Rev.: **00**

NO EXCEPTIONS NOTED
 Release for manufacture

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.



PLAN VIEW
BELLOWS, TOP LUGS, & BOTTOM BAR SUPPORTS NOT SHOWN FOR CLARITY

FRONT VIEW
BELLOWS, HEADER LEVEL BAFFLE SUPPORTS, AND BASEMENT BAFFLES NOT SHOWN FOR CLARITY

- GENERAL NOTES:**
1. INSTALL 1 1/4" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
 2. ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 3. ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
 4. APPROXIMATE ASSEMBLY WEIGHT: 262,000 LBS.
 5. ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
 6. QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNIT IS REQ'D.

- REFERENCE DRAWINGS:**
1. 017424-MAND-060 - MODULE BOX ASSEMBLY BOX #4A
 2. 017424-MAND-062 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOX 4A
 3. 017424-MAND-063 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOX 4B
 4. 017424-MAND-064 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 5. 017424-MAND-065 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 6. 017424-MAND-066 - BASEMENT BAFFLES BOX 4
 7. 017424-MAND-067 - BASEMENT BAFFLES BOX 4 DETAILS
 8. 017424-MAND-068 - MODULE BOX ASSEMBLY PIPE SUPPORT DETAILS BOX 4A
 9. 017424-BCND-004 - BOTTOM CASING - BOX 4A & 4B (BC40A & BC40B)
 10. 017424-BSND-011 - SIDE GAS BAFFLES (BOXES 1B THRU 5B) SHOP INSTALLED
 11. 017424-BSND-042 - BOX #4 (A&B) SOUND BAFFLES AND BRACING
 12. 017424-EBND-111 - STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 13. 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 14. 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 15. 017424-MAND-020 - MODULE TDP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 3-5
 16. 017424-MSND-021 - IPEV2 - MS2201 BOX 4
 17. 017424-MSND-022 - HPEC5 - MS1104 BOX 4
 18. 017424-MSND-023 - HPEC6 - MS1103 BOX 4
 19. 017424-MSND-024 - HPEC7 - MS1102 BOX 4
 20. 017424-MSND-025 - IPEC1 - MS2102 BOX 4
 21. 017424-MSND-027 - HPEC9 - MS1101 BOX 4
 22. 017424-SCND-004 - SIDE CASING ASSEMBLY BOX 4 SC40A & SC40B
 23. 017424-SCND-003 - SHIPPING FRAME BOX #3, 4, & 5 (A & B)
 24. 017424-TCND-004 - TOP CASING ASSEMBLIES TC40 (BOX 4A & 4B)

5					
4					
3					
2					
1					
0	FIRST ISSUE	07/25/06	SP	JD	DP

Rev.	Description	Date	Drawn	Chk'd	Appr.

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Voigt Power Project 17424

Scale: 1/2" = 1'-0"

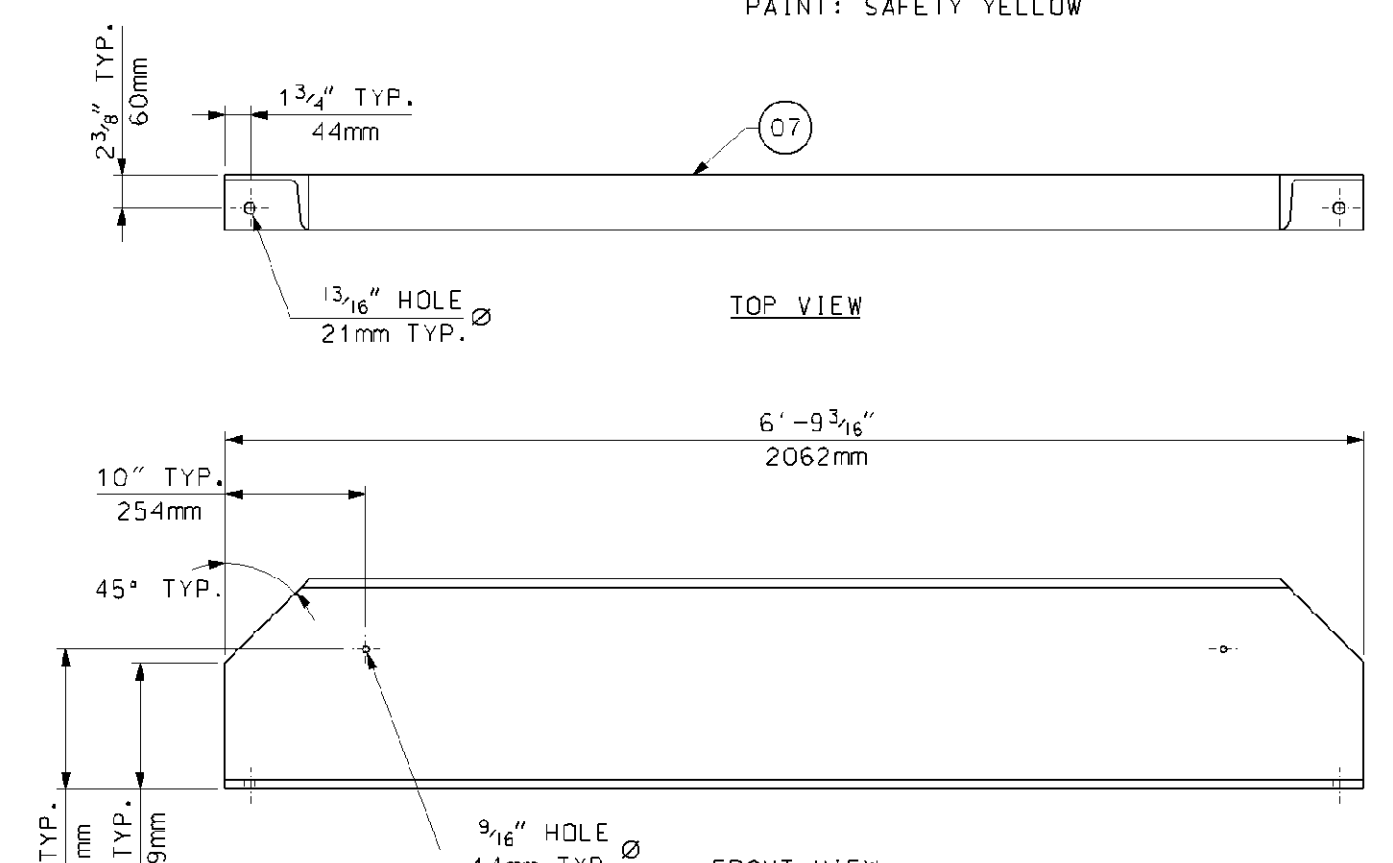
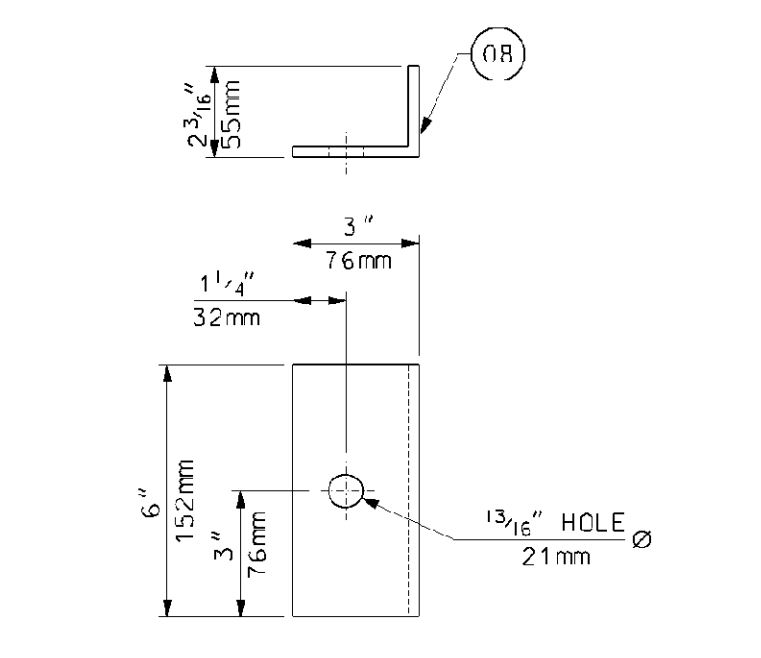
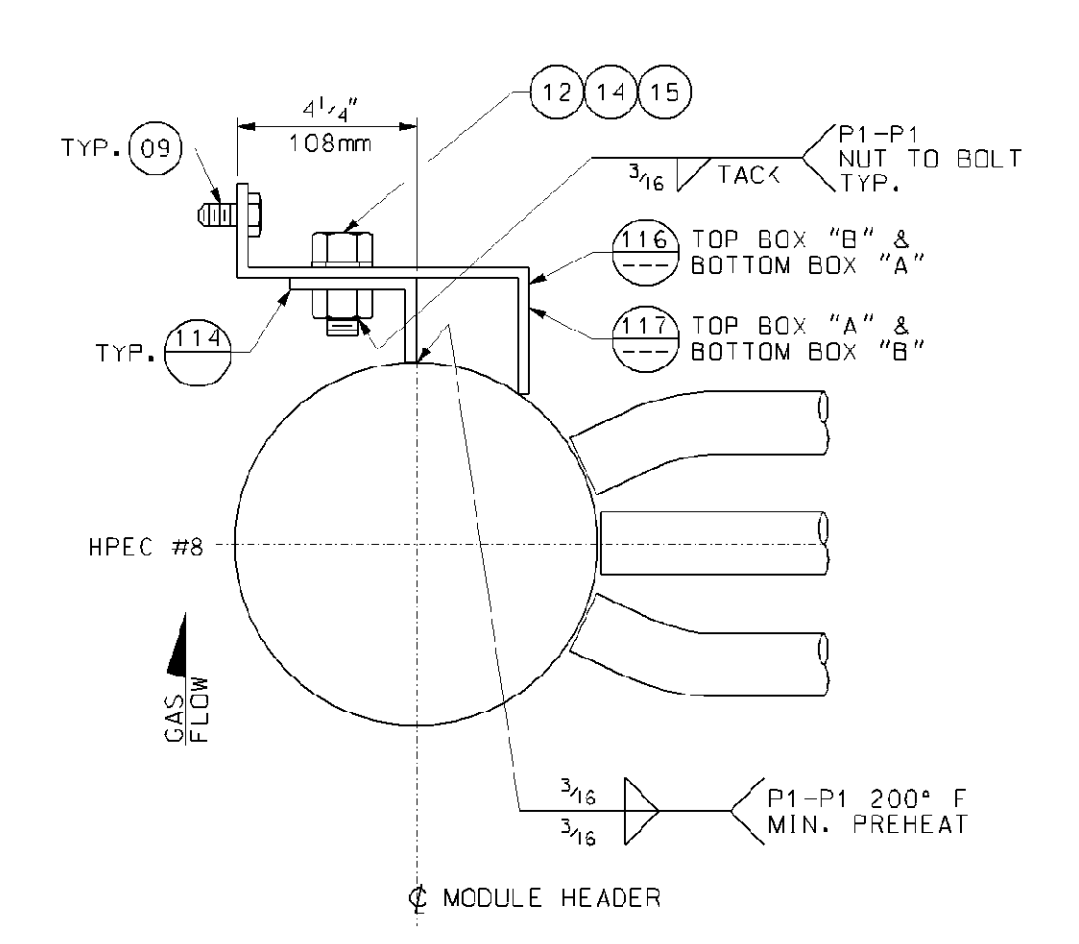
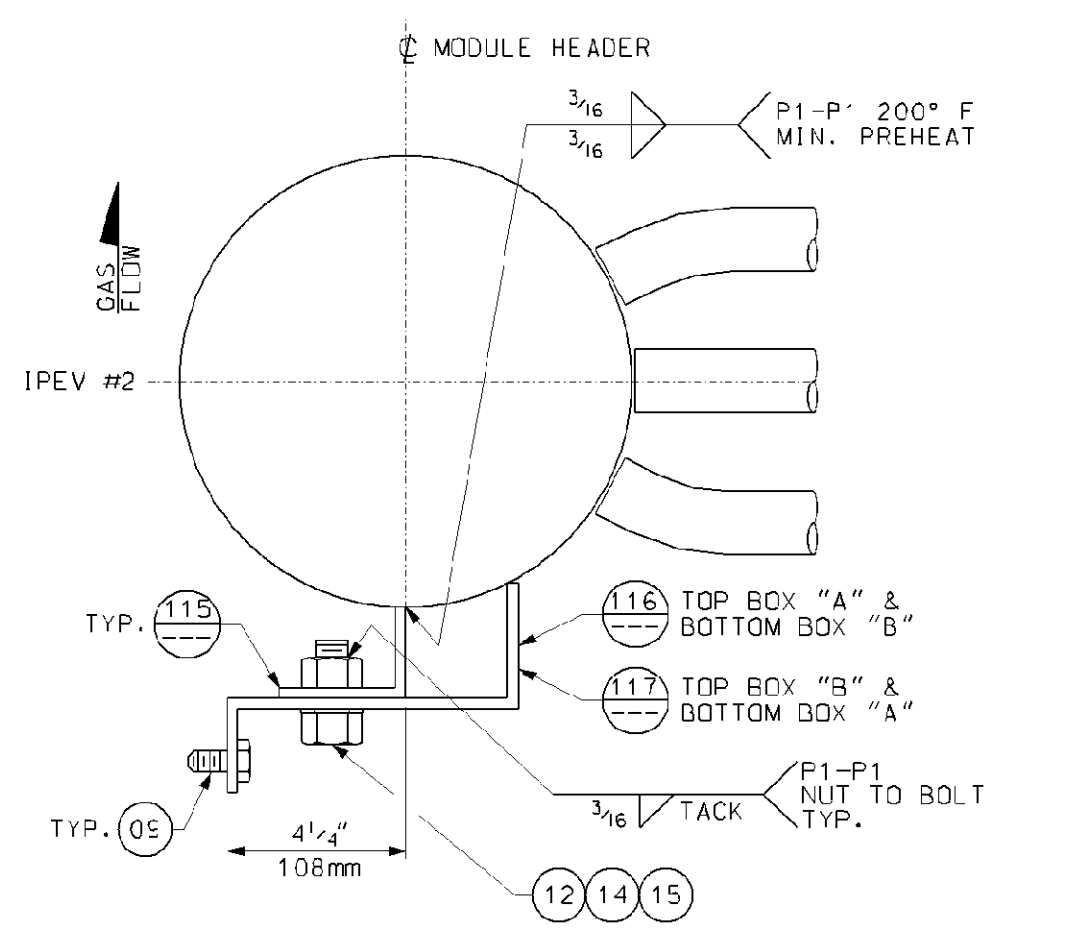
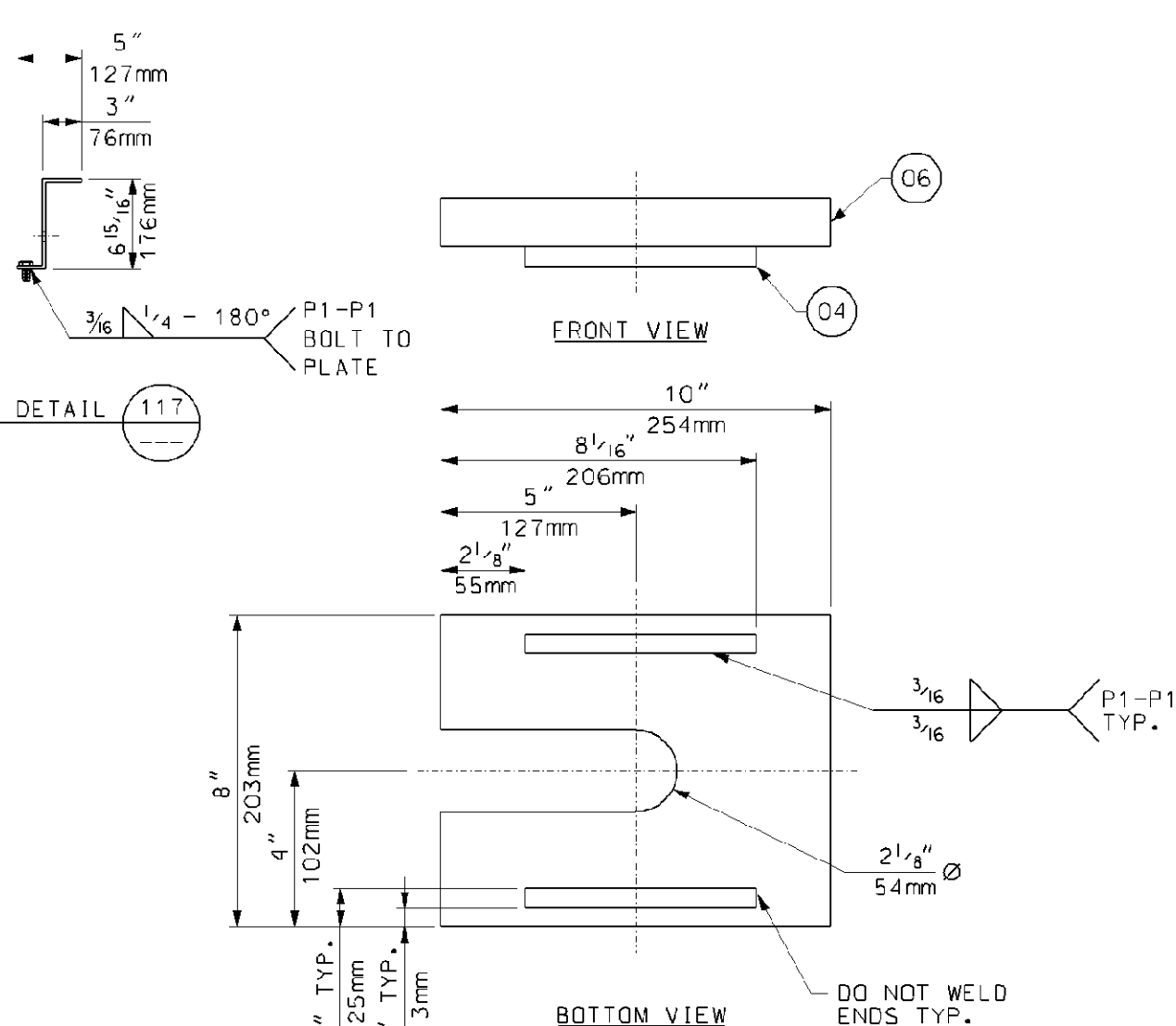
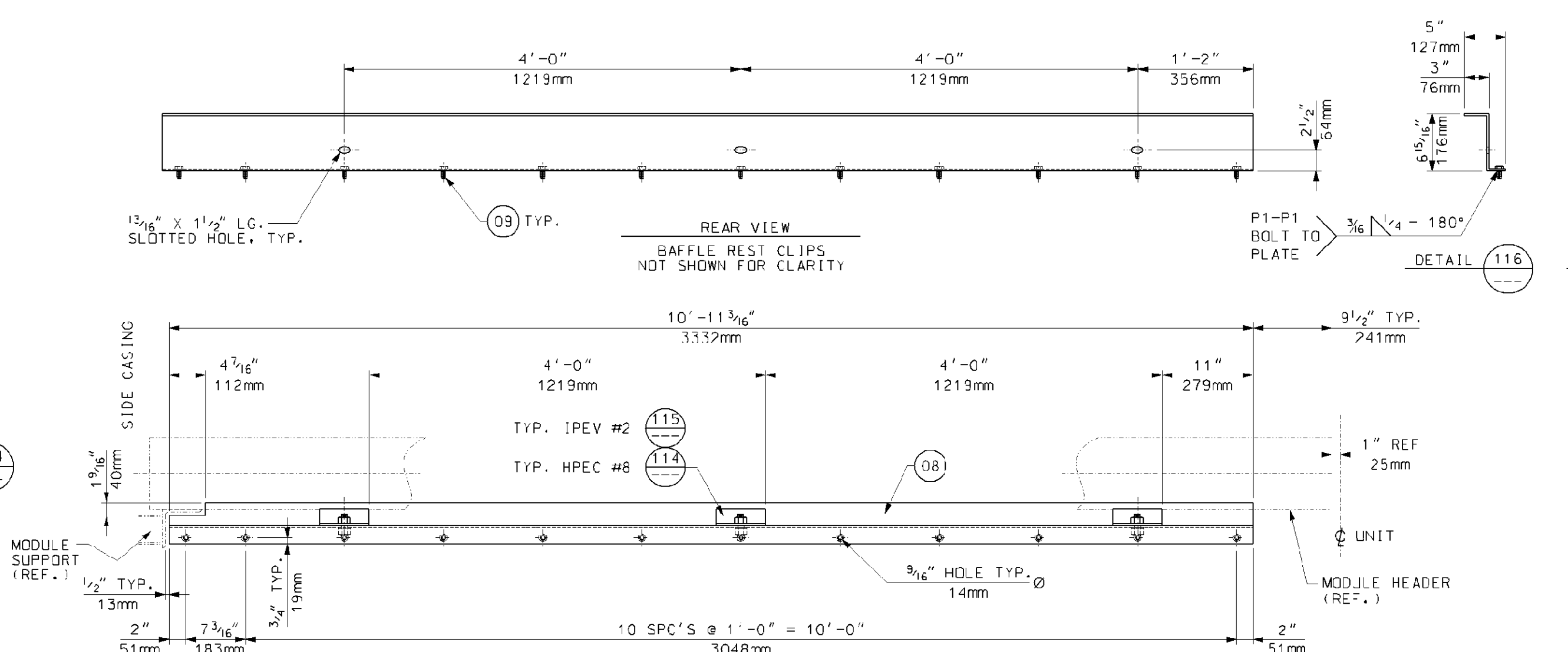
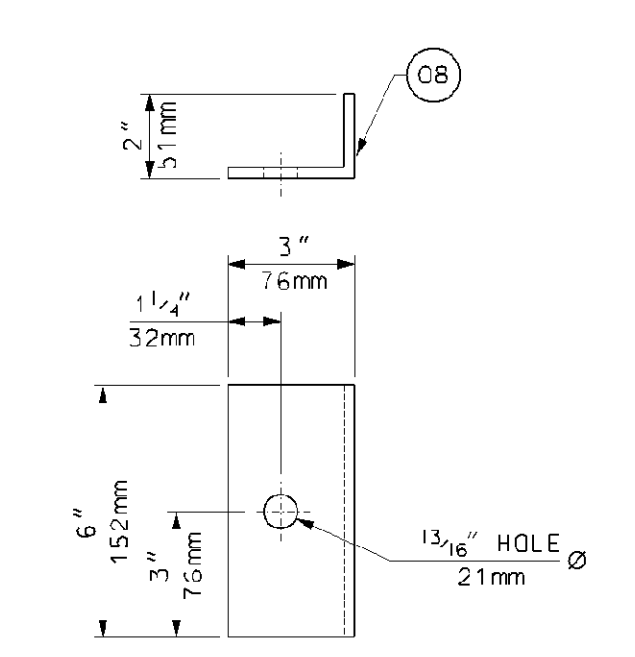
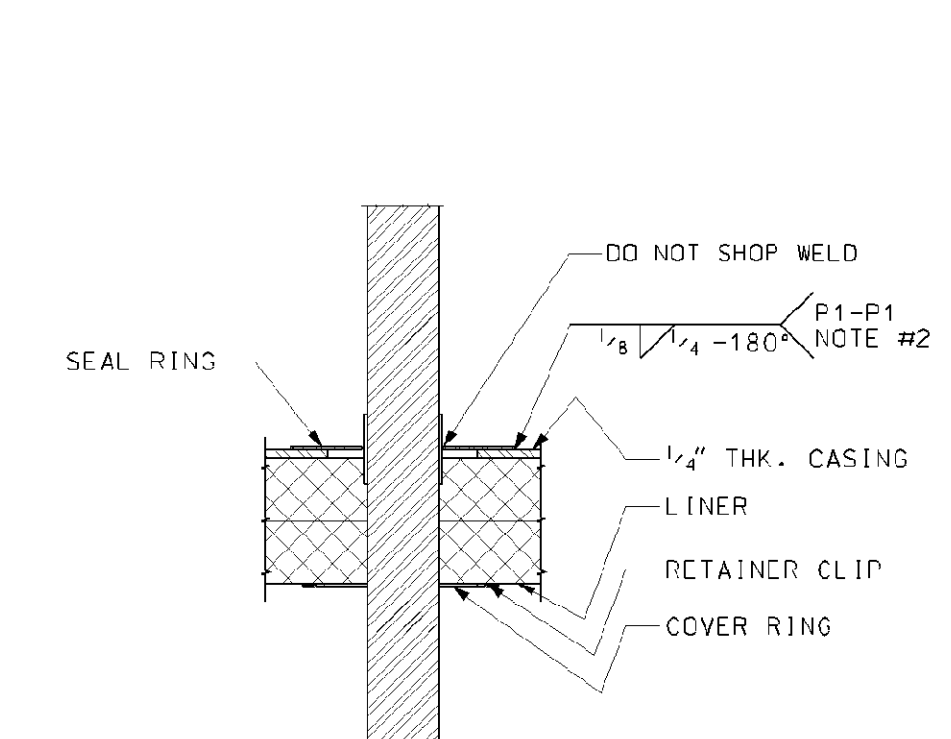
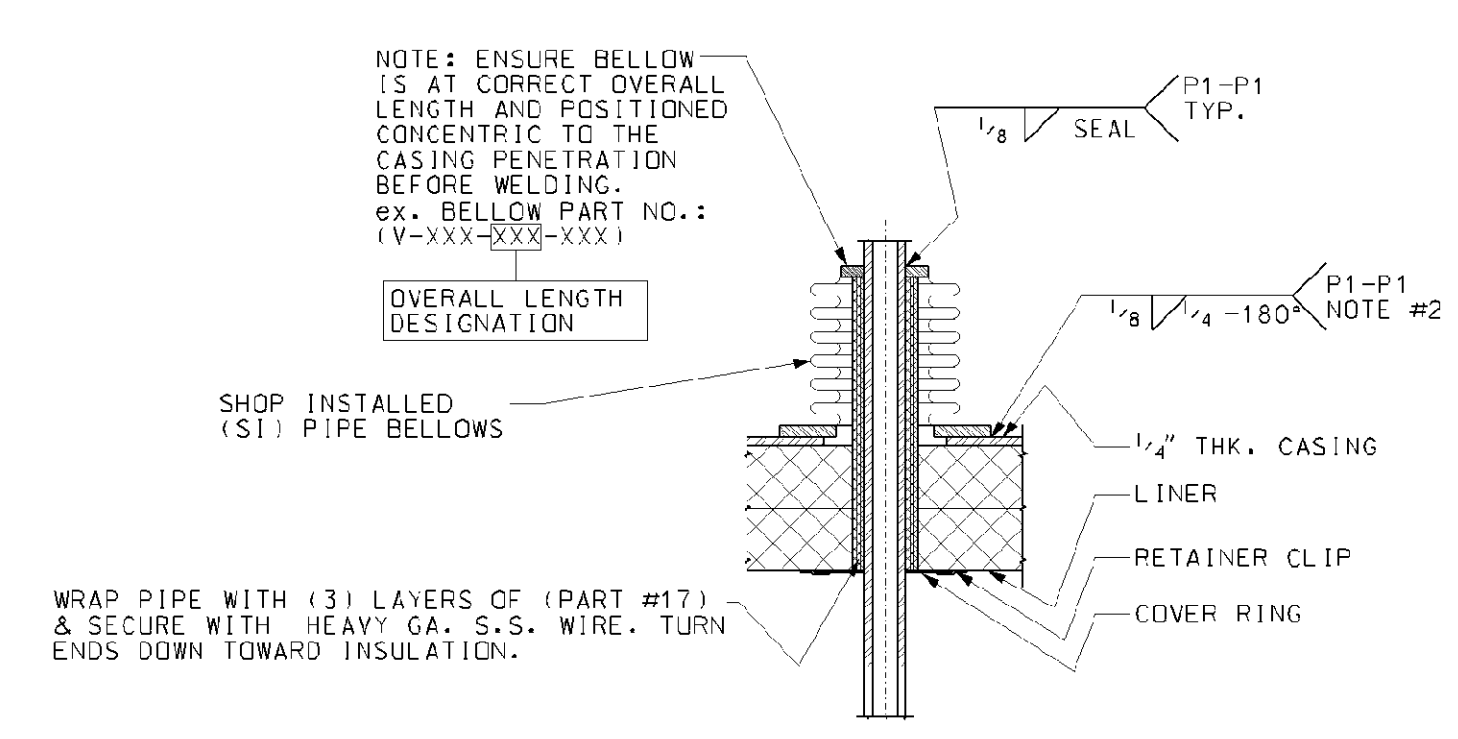
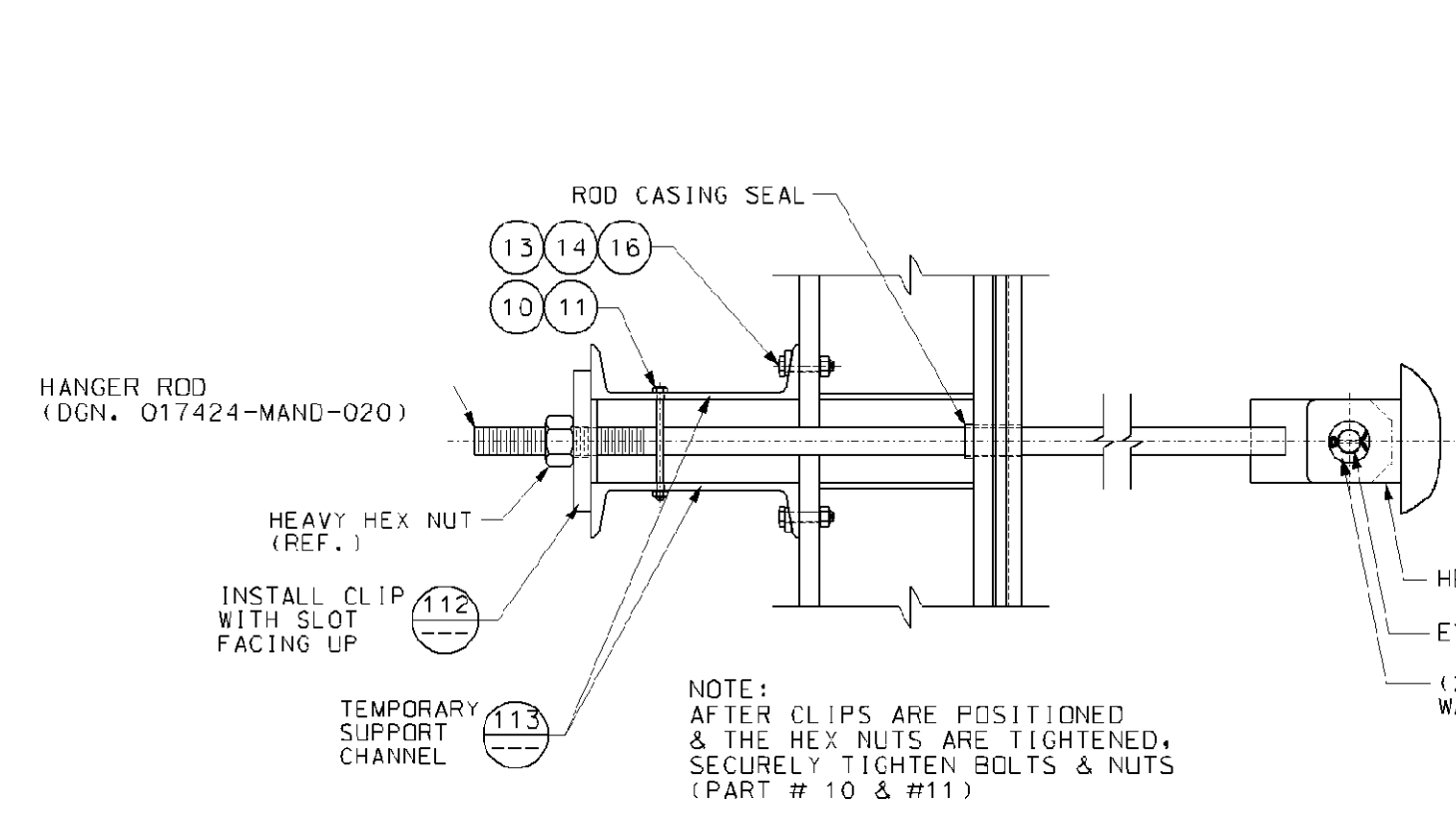
Title: MODULE BOX ASSEMBLY
BOX # 4B
MK'D MA40B

Voigt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VoigtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-061	00

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
Release for manufacture



BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
04	1	SO. FT. OF PLATE, 1/2" (12mm) THK.	JIS G3101-S400
06	14	SO. FT. OF PLATE, 1 1/2" (32mm) THK.	JIS G3101-S400
07	55	LIN. FT. OF CHANNEL, C380x100x10.5x16	JIS G3101-S400
08	93	SO. FT. OF PLATE, 1/2" (6mm) THK.	JIS G3101-S400
09	96	HEX BOLT, 1/2" DIA. (M12x30mm)	S04.8
10	8	HEX BOLT, 1/2" DIA. (M12x200mm)	S04.8
11	8	HEX NUT, 1/2" DIA. (M12)	S04.8
12	24	BOLT, 3/4" DIA. (M20x45mm)	S04.8
13	16	BOLT, 3/4" DIA. (M20x30mm)	S04.8
14	40	NUT, 3/4" DIA. (M20)	S04.8
15	24	WASHER, 3/4" DIA. (M20)	S04.8
16	16	BEVEL WASHER, 3/4" DIA. (M20)	S04.8
17	37	SO. FT. OF PAPER INSULATION, 1/8" THK. HIGH TEMPERATURE, LOW SHRINKAGE, CERAMIC FIBER	

PART NUMBERS ARE TO HAVE THE PREFIX OF "MA" FOR EXAMPLE: "40A"(BOX ASSY.) + "04" (PART #) WOULD BE "MA40A04"

- GENERAL NOTES:**
- ALL WELDS IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 - BEFORE INSTALLING BELLOWS OR SEAL RINGS, PACK ANY VOID WITH INSULATION.
 - QUANTITIES SHOWN FOR (1) UNIT, (1) UNIT IS REQUIRED TOTAL.

- REFERENCE DRAWINGS:**
- 017424-MAND-060 - MODULE BOX ASSEMBLY BOX #4A
 - 017424-MAND-061 - MODULE BOX ASSEMBLY BOX #4B
 - 017424-MAND-062 - MODULE BOX ASSEMBLY VENTS AND DRAINS BOX 4A
 - 017424-MAND-063 - MODULE BOX ASSEMBLY VENTS AND DRAINS BOX 4B
 - 017424-MAND-064 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 - 017424-MAND-066 - BASEMENT BAFFLES BOX 4
 - 017424-MAND-067 - BASEMENT BAFFLES BOX 4 DTL'S
 - 017424-MAND-068 - MODULE BOX ASSEMBLY PIPE SUPPORT DETAILS BOX 4A

Rev.	Description	Date	Drawn	Chk'd	Appr.
0	FIRST ISSUE	07/25/06	BP	JD	DP

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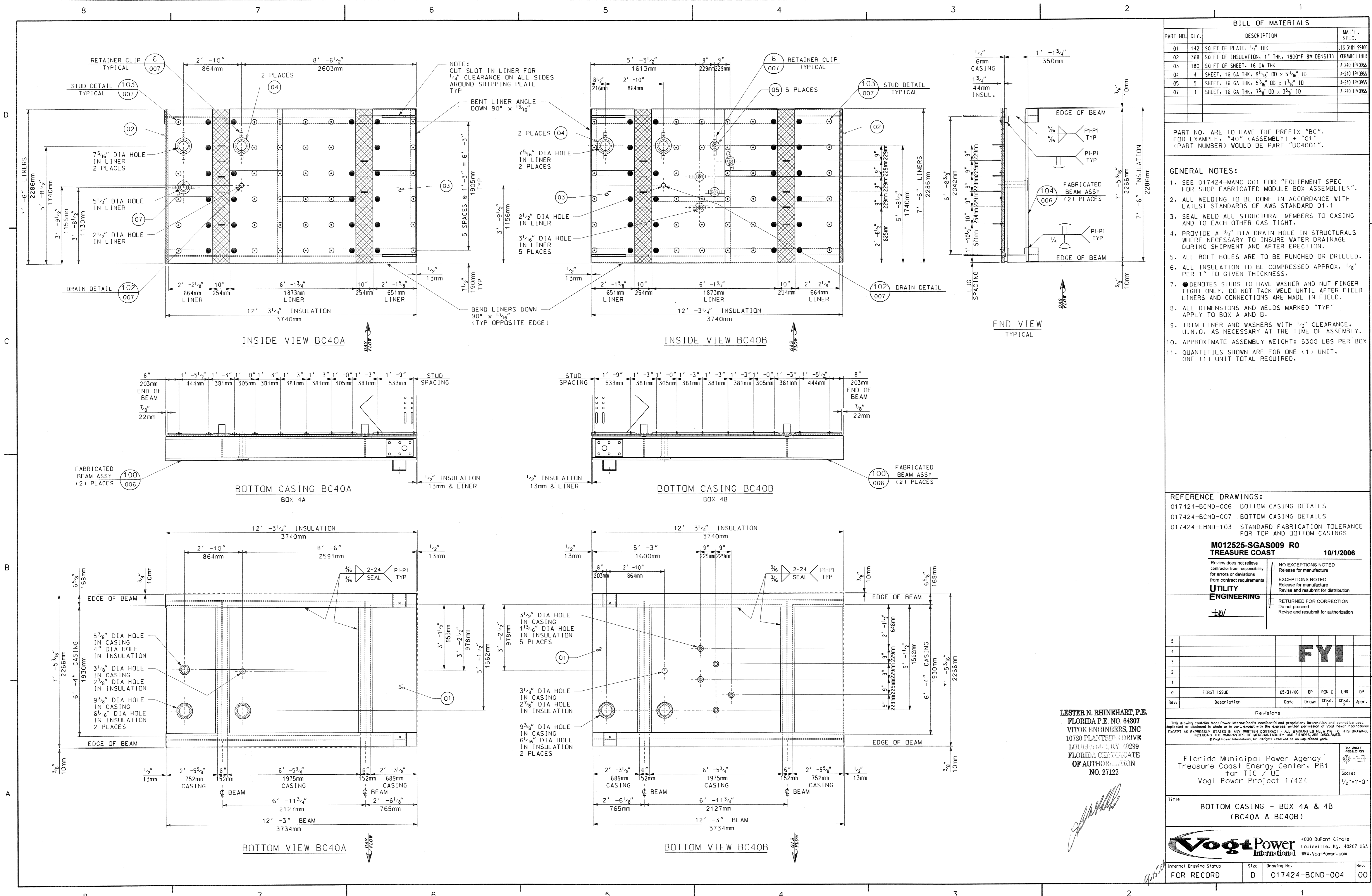
Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Vogt Power Project 17424

Title: MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS



Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-065	00

NO EXCEPTIONS NOTED
 Release for manufacture



BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	142	SO FT OF PLATE, 1/2" THK	JIS 3101 S400	
02	368	SO FT OF INSULATION, 1" THK, 1800°F 8# DENSITY	CERAMIC FIBER	
03	180	SO FT OF SHEET, 16 GA THK	A-240 TP4095S	
04	4	SHEET, 16 GA THK, 9 1/16" OD x 5 1/16" ID	A-240 TP4095S	
05	5	SHEET, 16 GA THK, 5 7/16" OD x 1 1/16" ID	A-240 TP4095S	
07	1	SHEET, 16 GA THK, 7 5/8" OD x 3 5/8" ID	A-240 TP4095S	

PART NO. ARE TO HAVE THE PREFIX "BC".
 FOR EXAMPLE, "40" (ASSEMBLY) + "01"
 (PART NUMBER) WOULD BE PART "BC4001".

- GENERAL NOTES:**
- SEE 017424-MANC-001 FOR "EQUIPMENT SPEC. FOR SHOP FABRICATED MODULE BOX ASSEMBLIES".
 - ALL WELDING TO BE DONE IN ACCORDANCE WITH LATEST STANDARDS OF AWS STANDARD D1.1
 - SEAL WELD ALL STRUCTURAL MEMBERS TO CASING AND TO EACH OTHER GAS TIGHT.
 - PROVIDE A 3/4" DIA DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL BOLT HOLES ARE TO BE PUNCHED OR DRILLED.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/8" PER 1" TO GIVEN THICKNESS.
 - DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN FIELD.
 - ALL DIMENSIONS AND WELDS MARKED "TYP" APPLY TO BOX A AND B.
 - TRIM LINER AND WASHERS WITH 1/2" CLEARANCE, U.N.O. AS NECESSARY AT THE TIME OF ASSEMBLY.
 - APPROXIMATE ASSEMBLY WEIGHT: 5300 LBS PER BOX
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT, ONE (1) UNIT TOTAL REQUIRED.

REFERENCE DRAWINGS:
 017424-BCND-006 BOTTOM CASING DETAILS
 017424-BCND-007 BOTTOM CASING DETAILS
 017424-EBND-103 STANDARD FABRICATION TOLERANCE FOR TOP AND BOTTOM CASINGS

M012525-TGAS009 R0
TREASURE COAST 10/1/2006

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

UTILITY ENGINEERING

NO EXCEPTIONS NOTED
 Release for manufacture

EXCEPTIONS NOTED
 Release for manufacture
 Revise and resubmit for distribution

RETURNED FOR CORRECTION
 Do not proceed
 Revise and resubmit for authorization

5					
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3					
2					
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0	FIRST ISSUE	05/31/06	BP	RON C	LNR DP
Rev.	Description	Date	Drawn	Chkd.	Appr.

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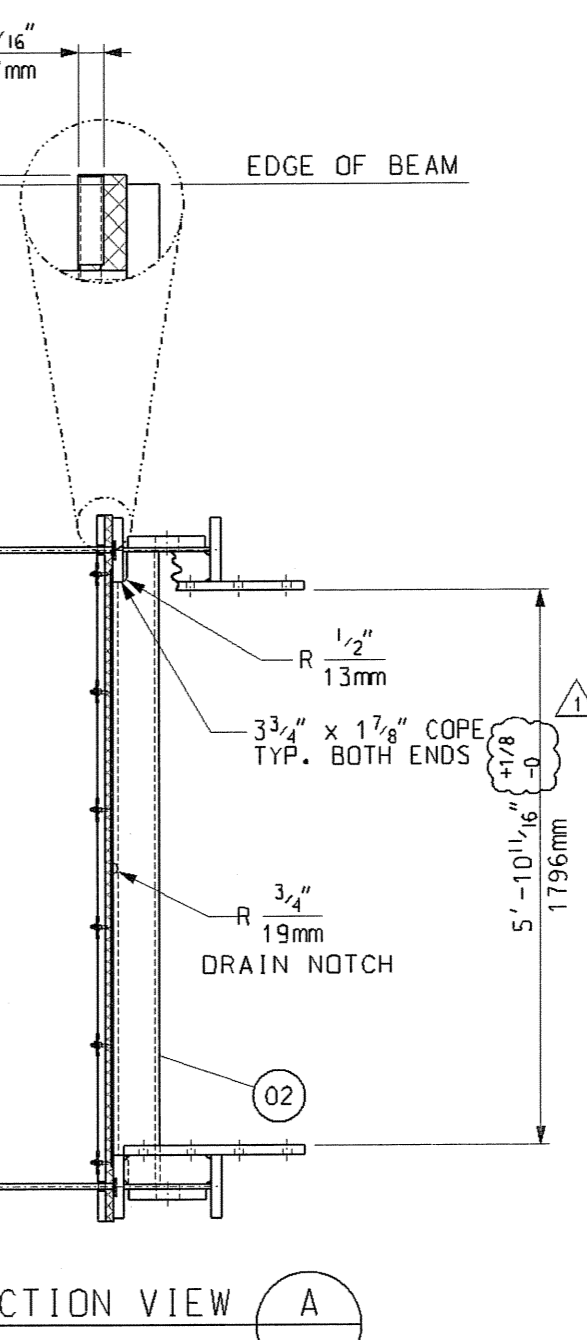
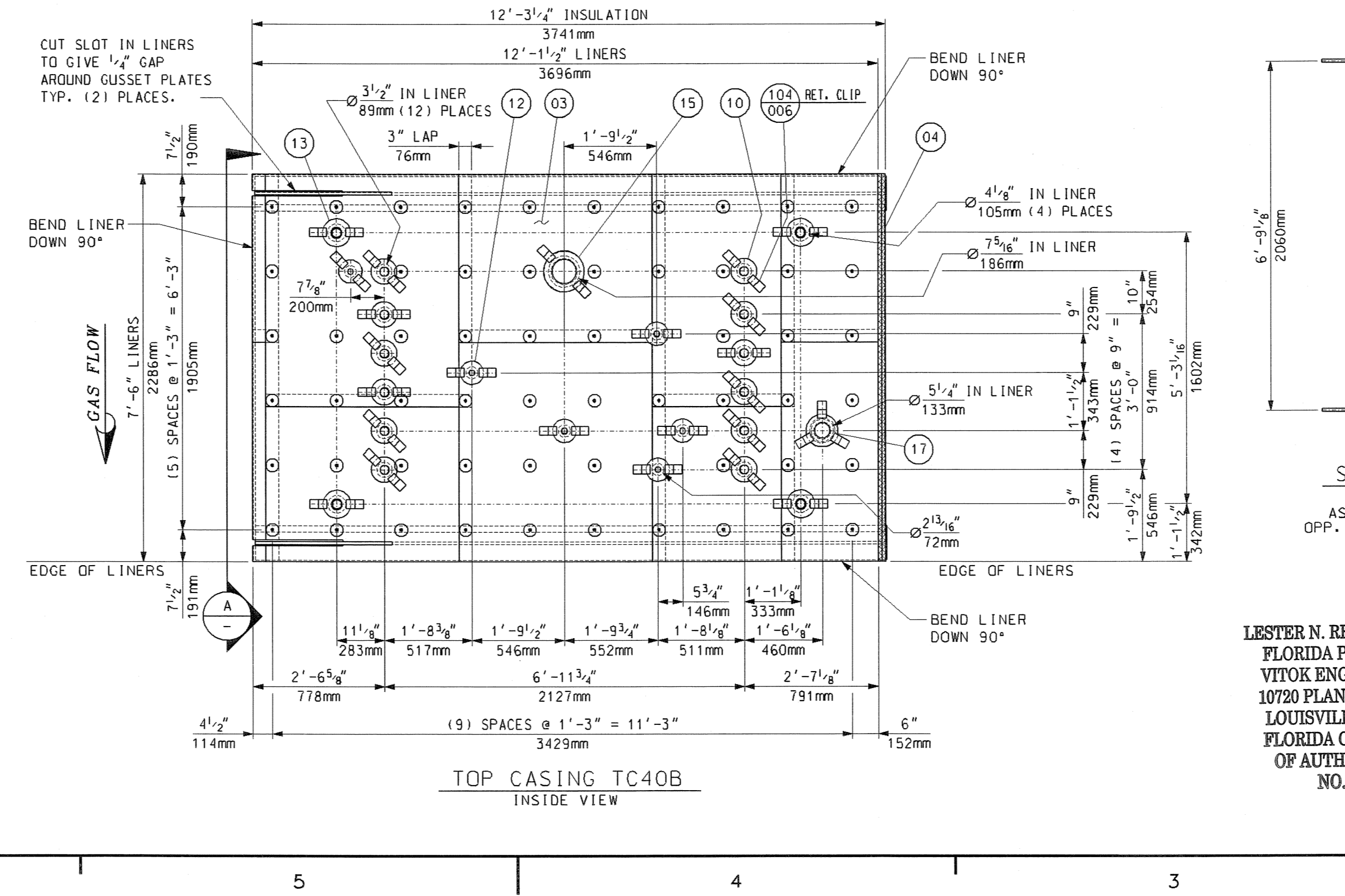
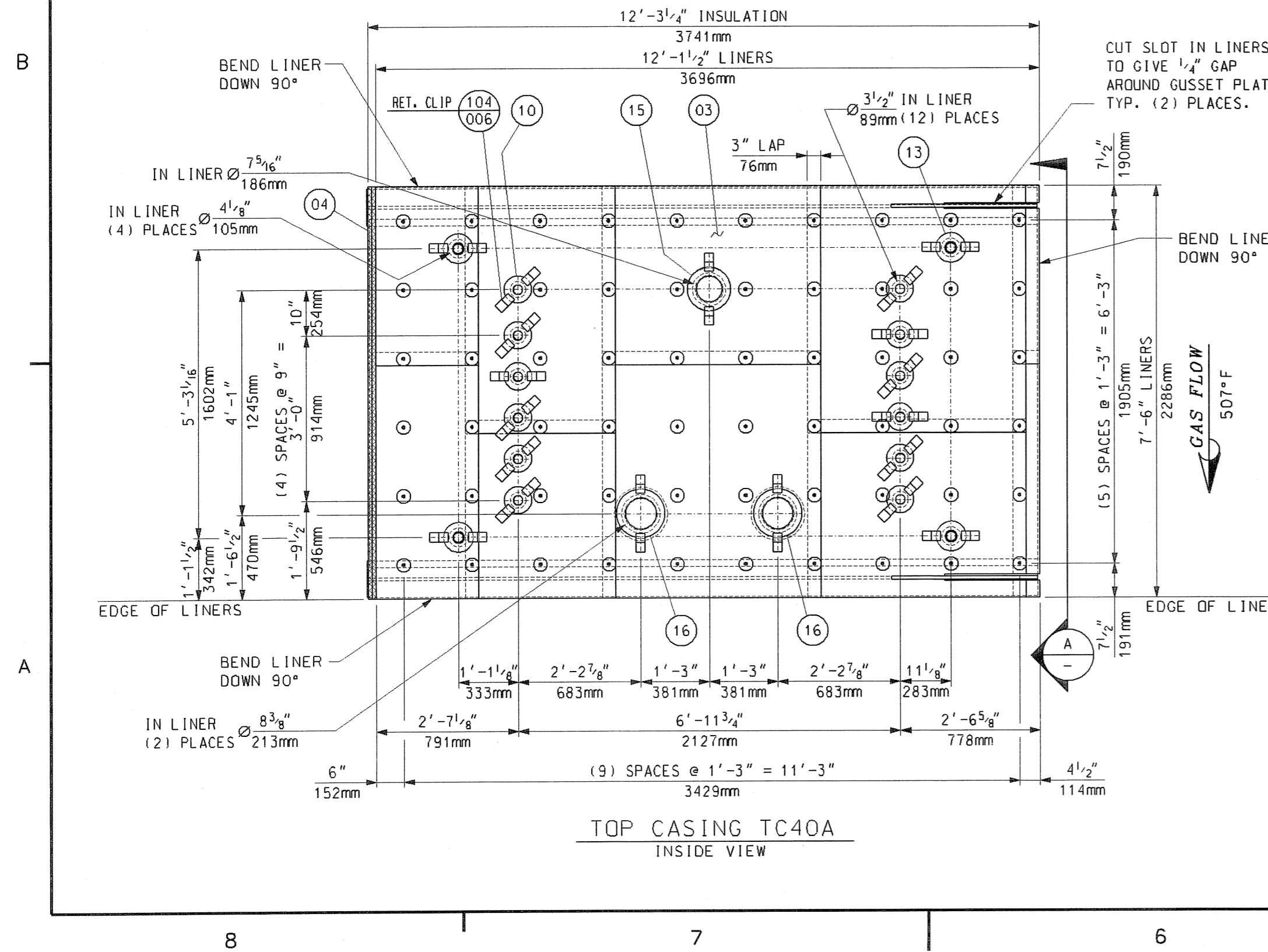
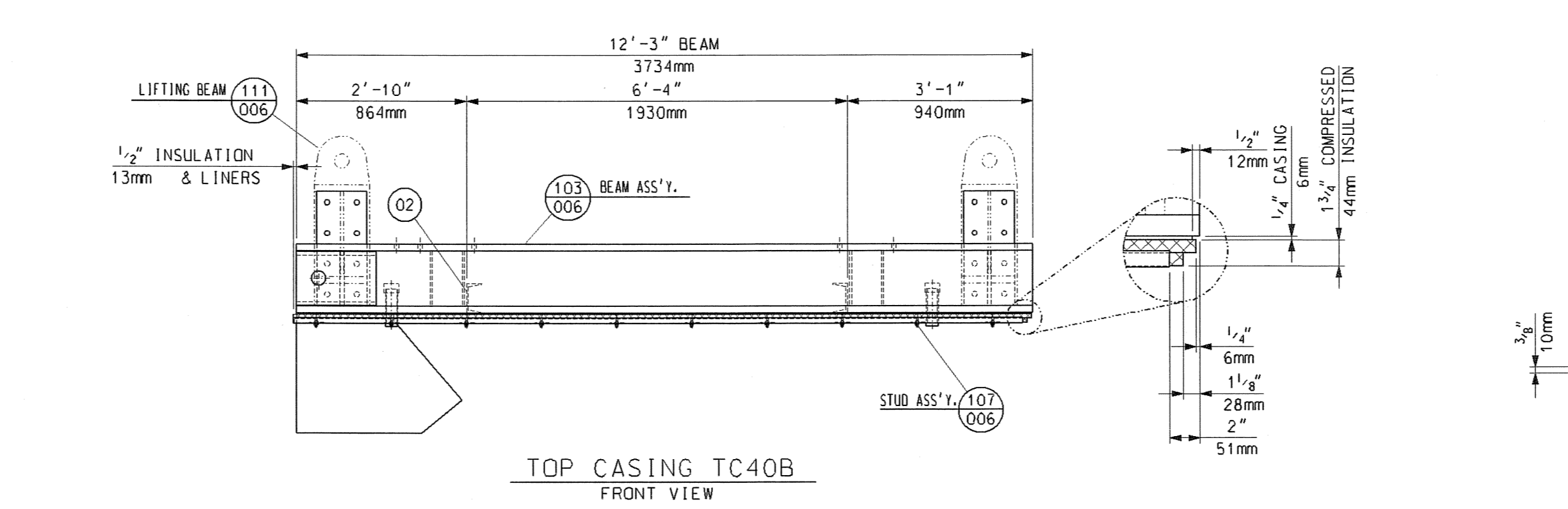
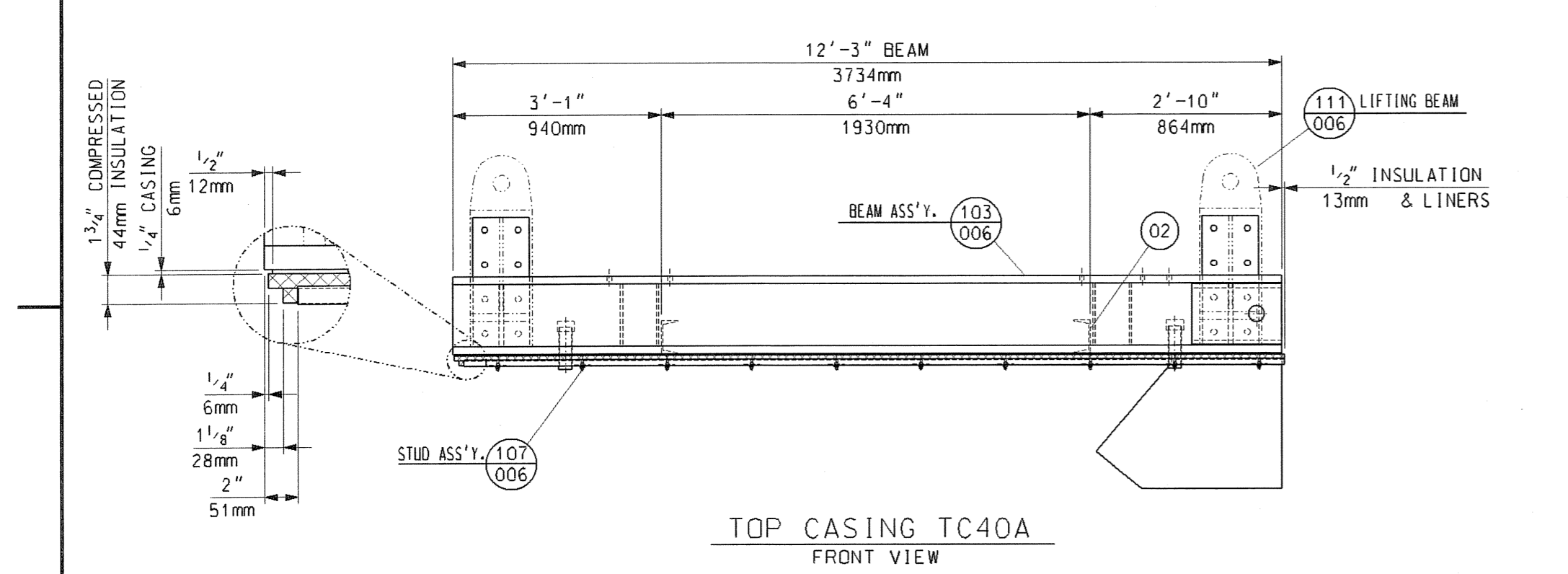
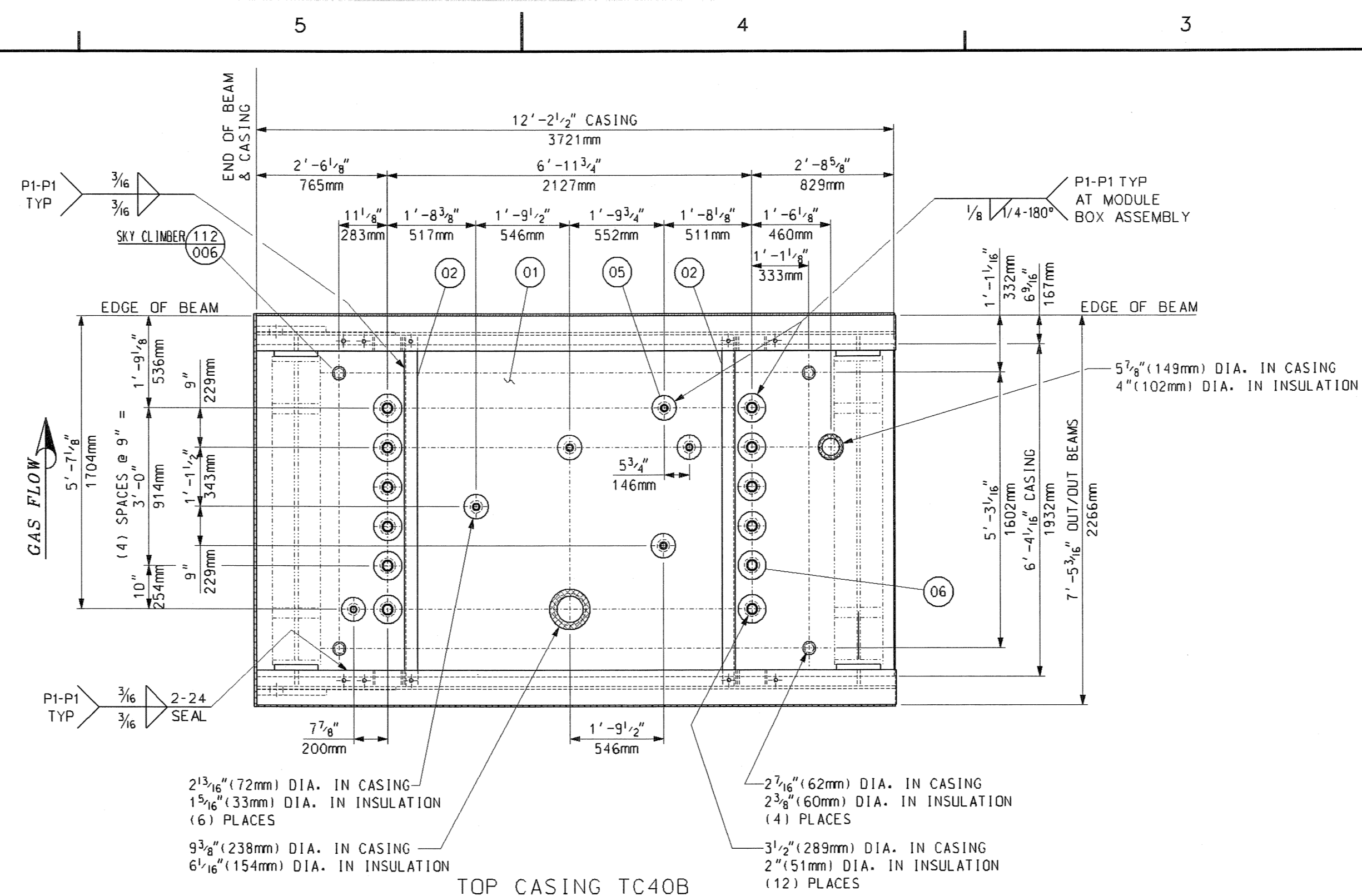
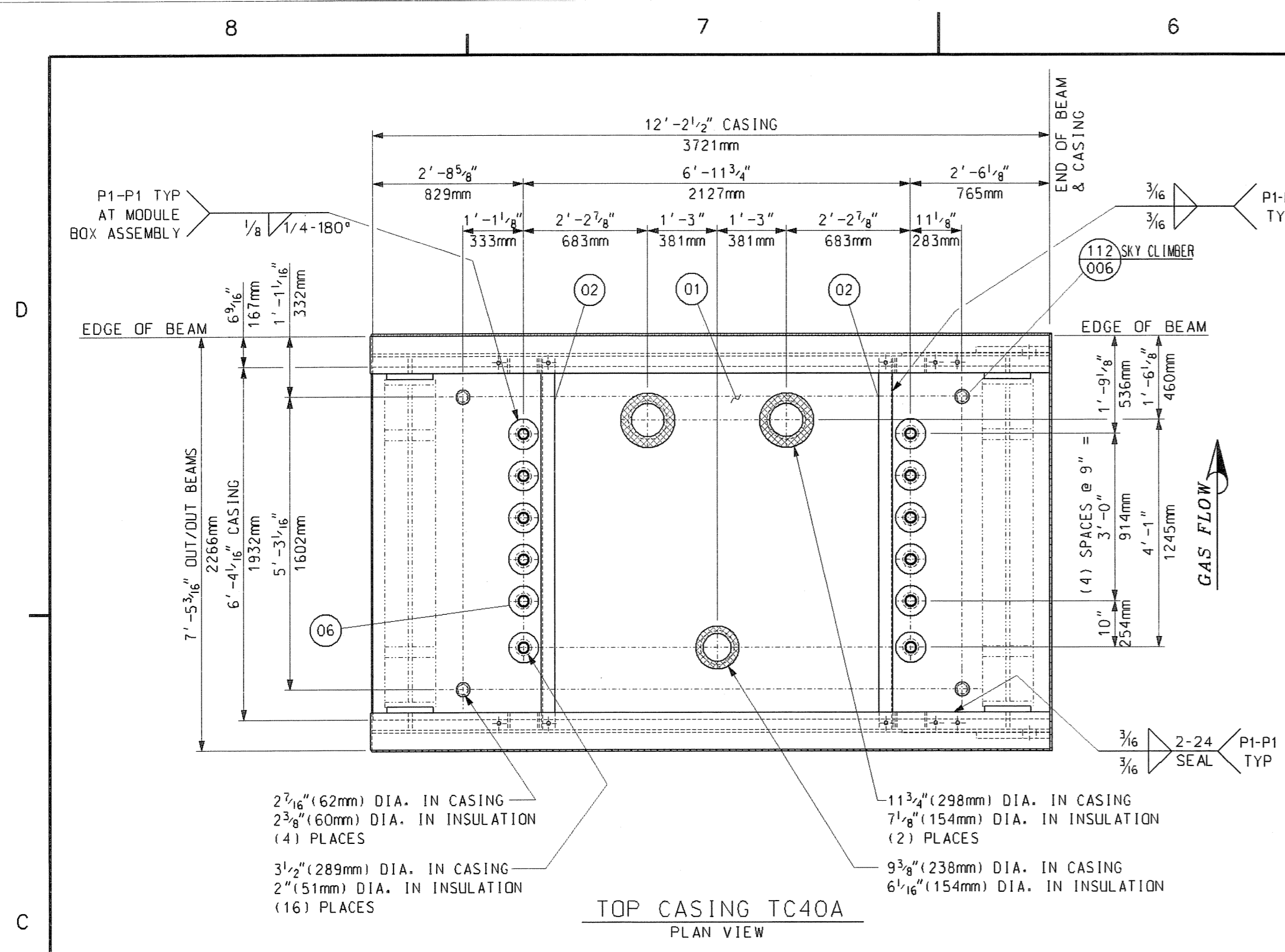
Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Voigt Power Project 17424

Title
BOTTOM CASING - BOX 4A & 4B (BC40A & BC40B)



Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-BCND-004	00

LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
 VITOK ENGINEERS, INC
 10720 PLANTERS DRIVE
 LOUISVILLE, KY 40209
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 27122



LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
 VTKO ENGINEERS, INC
 10720 PLANTSIDE DRIVE
 LOUISVILLE, KY 40299
 FLORIDA CERTIFICATE
 OF AUTHORIZATION
 NO. 27122

BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	2	PLATE, 1/4" THK., 6'-4 1/8" x 12'-2 1/2"	JIS	3101-SS400
02	8	CHANNEL, C150x75x6.5x10 x 6'-8 3/8" LG.	JIS	3101-SS400
03	200	SO. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-240	TP409
04	400	SO. FT. OF INSULATION 1" THK. 1800°F 8# DENSITY	CERAMIC FIBER	
05	6	SHEET, 10 GA. (3.5mm) THK. 6"OD x 2 1/2"ID	A568	
06	24	SHEET, 16 GA. (1.5mm) THK. 6 1/2"OD x 2 1/2"ID	A-240	TP409
10	24	SHEET, 16 GA. (1.5mm) THK. 5 1/2"OD x 1 1/2"ID	A-240	TP409
12	6	SHEET, 16 GA. (1.5mm) THK. 5 1/2"OD x 1 1/2"ID	A-240	TP409
13	8	SHEET, 16 GA. (1.5mm) THK. 6 1/2"OD x 2 1/2"ID	A-240	TP409
15	2	SHEET, 16 GA. (1.5mm) THK. 9 1/2"OD x 5 1/2"ID	A-240	TP409
16	2	SHEET, 16 GA. (1.5mm) THK. 10 3/4"OD x 6 3/4"ID	A-240	TP409
17	1	SHEET, 16 GA. (1.5mm) THK. 7 3/8"OD x 3 3/8"ID	A-240	TP409
103	2RH/2LH	BEAM ASSEMBLY	SHT 006	
104	87	RETAINER CLIP	SHT 006	
107	117	STUD DETAIL	SHT 006	
111	2	LIFTING BEAM ASSEMBLY (FIELD INSTALLED)	SHT 006	
112	8	SKY CLIMBER PORT	SHT 006	

PART NUMBERS TO HAVE THE PREFIX "TC40". FOR EXAMPLE PART NO. 01 WOULD BE TC4001.

- GENERAL NOTES:
- SEE 017424-TCND-001 FOR GENERAL NOTES
 - APPROXIMATE ASSEMBLY WEIGHT: 5,200 LBS. EA.
 - QTY. SHOWN FOR ONE (1) UNIT, ONE (1) UNIT IS REQ'D TOTAL.

REFERENCE DRAWINGS:

FYI

M012525-SGAS080 R1				
TREASURE COAST			10/1/2006	
Review does not relieve contractor from responsibility for errors or deviations from contract requirements				
NO EXCEPTIONS NOTED			Release for manufacture	
EXCEPTIONS NOTED			Release for manufacture	
UTILITY ENGINEERING			Return and resubmit for authorization	
RETURNED FOR CORRECTION				
Do not proceed				
Revise and resubmit for authorization				
5				
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1	ADDED DIMENSIONAL TOLERANCE BETWEEN LUGS	06/20/06	MAS	JD
0	FIRST ISSUE	06/01/06	SJudd	JD LNR DP
Rev.	Description	Date	Drawn	Chkd. Appr.
			1	2

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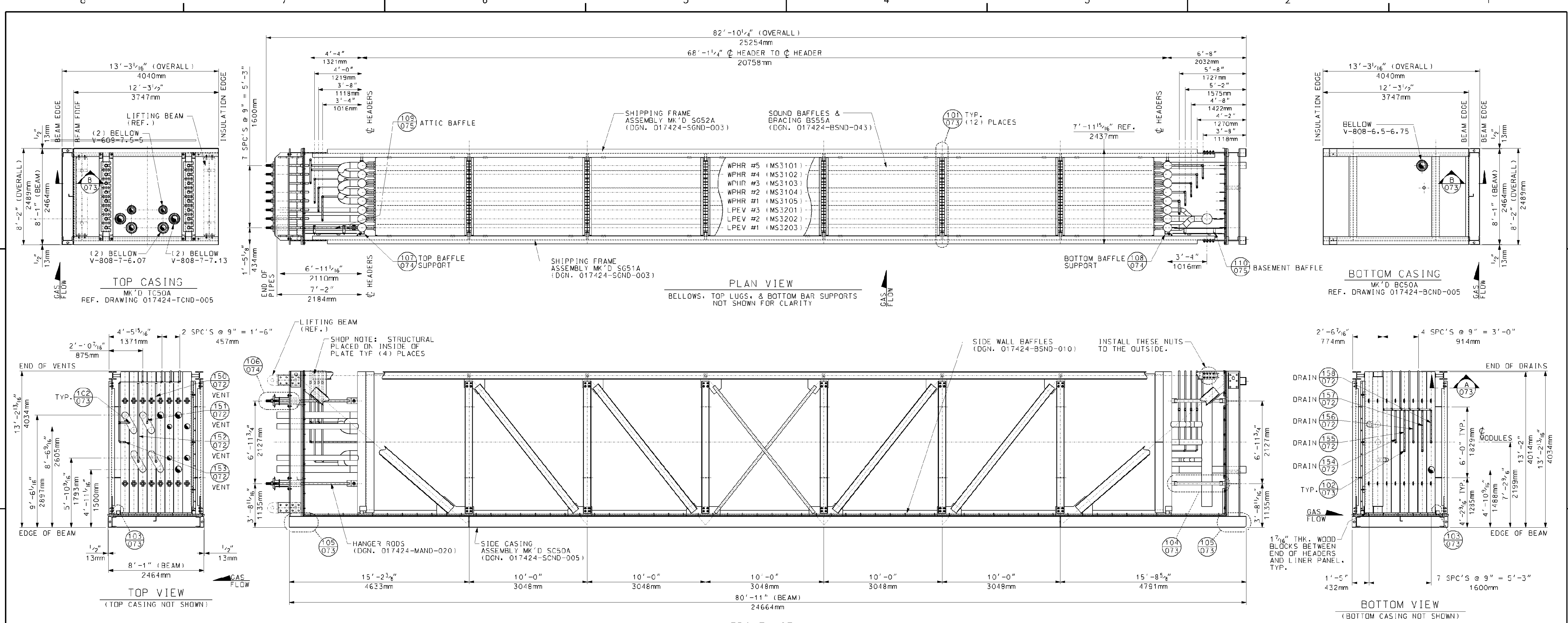
Florida Municipal Power Agency
 Treasure Coast Energy Center, PB1
 for TIC / UE
 Vogt Power Project 17424

Title TOP CASING ASSEMBLIES TC40 (BOX 4A & 4B)



Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-TCND-004	01

MODULE 5



- GENERAL NOTES:**
1. INSTALL 1 1/8" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
 2. ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
 3. ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
 4. APPROXIMATE ASSEMBLY WEIGHT: 335,000 LBS.
 5. ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
 6. QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNITS IS REQ'D.

- REFERENCE DRAWINGS:**
1. 017424-MAND-071 - MODULE BOX ASSEMBLY BOX #58
 2. 017424-MAND-072 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOXES 5A-5B
 3. 017424-MAND-073 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 4. 017424-MAND-074 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
 5. 017424-MAND-075 - ATTIC AND BASEMENT BAFFLES BOX 5
 6. 017424-MAND-076 - ATTIC AND BASEMENT BAFFLES BOX 5 DETAILS
 7. 017424-RCND-005 - BOTTOM CASING - BOX 5A & 5B (RC50A & RC50B)
 8. 017424-BSND-010 - SIDE GAS BAFFLES (BOXES 1A THRU 5A) SHOP INSTALLED
 9. 017424-MSND-043 - BOX #5 (A&B) SOUND BAFFLES AND BRACING
 10. 017424-EBND-111 - STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
 11. 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
 12. 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
 13. 017424-MAND-020 - MODULE TOP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 3-5
 14. 017424-MSND-028 - LPEV1 - MS3203 BOX 5
 15. 017424-MSND-029 - LPEV2 - MS3202 BOX 5
 16. 017424-MSND-030 - LPEV3 - MS3201 BOX 5
 17. 017424-MSND-031 - WPHR1 - MS3105 BOX 5
 18. 017424-MSND-032 - WPHR2 - MS3104 BOX 5
 19. 017424-MSND-033 - WPHR3 - MS3103 BOX 5
 20. 017424-MSND-034 - WPHR4 - MS3102 BOX 5
 21. 017424-MSND-035 - WPHR5 - MS3101 BOX 5
 22. 017424-SCND-005 - SIDE CASING ASSEMBLY BOX 5 SC50A & SC50B
 23. 017424-SGND-003 - SHIPPING FRAME BOX #3, 4, & 5 (A & B)
 24. 017424-TCND-005 - TOP CASING ASSEMBLIES TC50 (BOX 5A & 5B)

Rev.	Description	Date	Drawn	Chk'd	Appr.
5					
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0	FIRST ISSUE	7/21/06	R.DEN	J.D.	DP

Revisions

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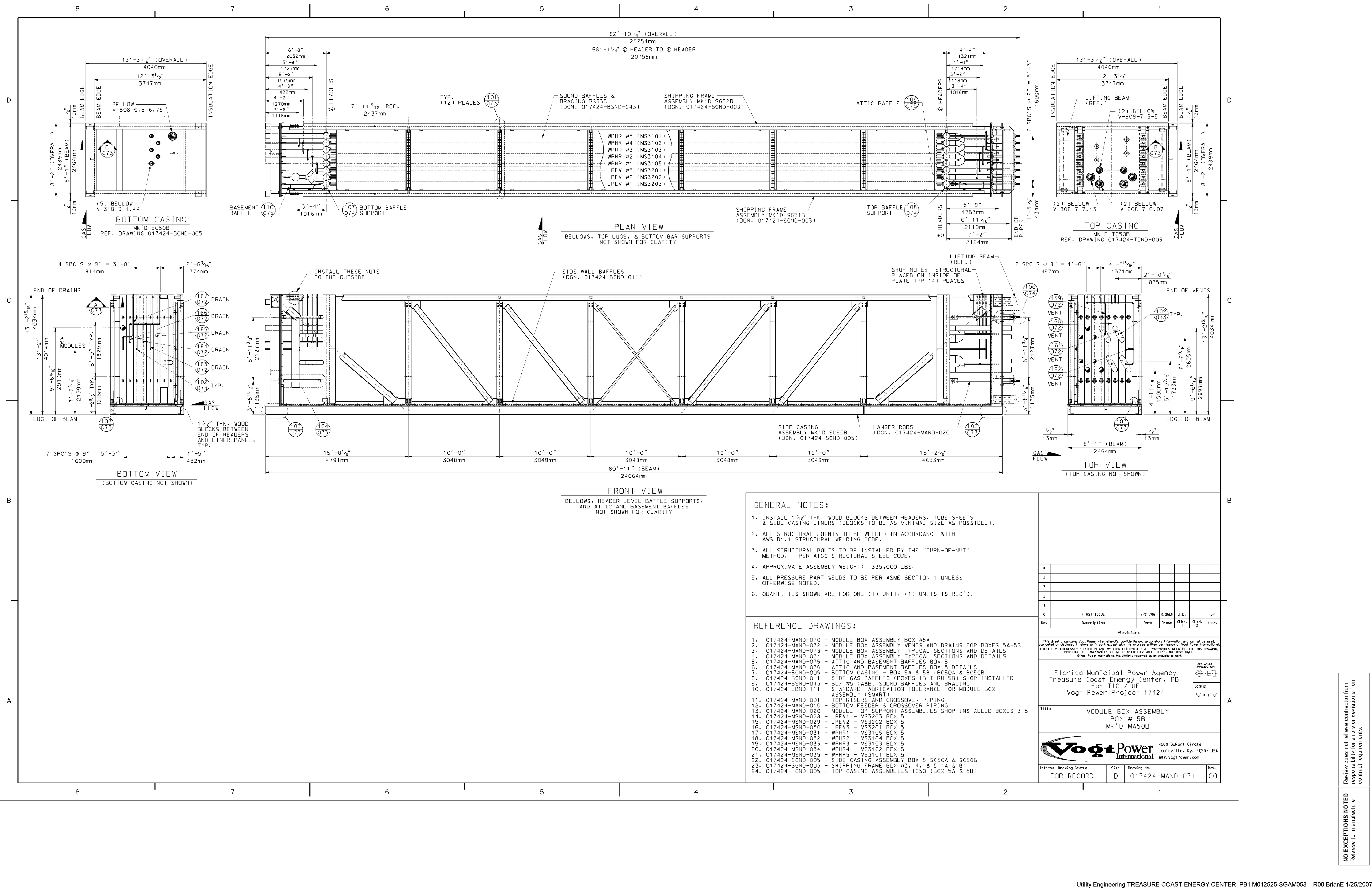
Title: **MODULE BOX ASSEMBLY BOX # 5A MK'D MA50A**

Scale: 1/2" = 1'-0"

Internal Drawing Status: **FOR RECORD** Size: **D** Drawing No.: **017424-MAND-070** Rev.: **00**

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
 Release for manufacture



GENERAL NOTES:

- INSTALL 1 3/16" THK. WOOD BLOCKS BETWEEN HEADERS, TUBE SHEETS & SIDE CASING LINERS (BLOCKS TO BE AS MINIMAL SIZE AS POSSIBLE).
- ALL STRUCTURAL JOINTS TO BE WELDED IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
- ALL STRUCTURAL BOLTS TO BE INSTALLED BY THE "TURN-OF-NUT" METHOD. PER AISC STRUCTURAL STEEL CODE.
- APPROXIMATE ASSEMBLY WEIGHT: 335,000 LBS.
- ALL PRESSURE PART WELDS TO BE PER ASME SECTION I UNLESS OTHERWISE NOTED.
- QUANTITIES SHOWN ARE FOR ONE (1) UNIT. (1) UNITS IS REQ'D.

REFERENCE DRAWINGS:

- 017424-MAND-070 - MODULE BOX ASSEMBLY BOX #5A
- 017424-MAND-072 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOXES 5A-5B
- 017424-MAND-073 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
- 017424-MAND-074 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
- 017424-MAND-075 - ATTIC AND BASEMENT BAFFLES BOX 5
- 017424-MAND-076 - ATTIC AND BASEMENT BAFFLES BOX 5 DETAILS
- 017424-BCND-005 - BOTTOM CASING - BOX 5A & 5B (BC50A & BC50B)
- 017424-DSND-011 - SIDE GAS BAFFLES (BOXES 10 THRU 50) SHOP INSTALLED
- 017424-BSND-045 - BOX #5 (A&B) SOUND BAFFLES AND BRACING
- 017424-EBND-111 - STANDARD FABRICATION TOLERANCE FOR MODULE BOX ASSEMBLY (SMART)
- 017424-MAND-001 - TOP RISERS AND CROSSOVER PIPING
- 017424-MAND-010 - BOTTOM FEEDER & CROSSOVER PIPING
- 017424-MAND-020 - MODULE TOP SUPPORT ASSEMBLIES SHOP INSTALLED BOXES 3-5
- 017424-MSND-028 - LPEV1 - MS3203 BOX 5
- 017424-MSND-029 - LPEV2 - MS3202 BOX 5
- 017424-MSND-030 - LPEV3 - MS3201 BOX 5
- 017424-MSND-031 - WPHR1 - MS3105 BOX 5
- 017424-MSND-032 - WPHR2 - MS3104 BOX 5
- 017424-MSND-033 - WPHR3 - MS3103 BOX 5
- 017424-MSND-034 - WPHR4 - MS3102 BOX 5
- 017424-MSND-035 - WPHR5 - MS3101 BOX 5
- 017424-SCND-005 - SIDE CASING ASSEMBLY BOX 5 SC50A & SC50B
- 017424-SGND-003 - SHIPPING FRAME BOX #3, 4, & 5 (A & B)
- 017424-TCND-005 - TOP CASING ASSEMBLIES TCS0 (BOX 5A & 5B)

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0	FIRST ISSUE	7/21/06	R.OMEN	J.D.	DP
Rev.	Description	Date	Drawn	Chk'd.	Appr.

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Florida Municipal Power Agency
Treasure Coast Energy Center, PB1
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Voigt Power Project 17424

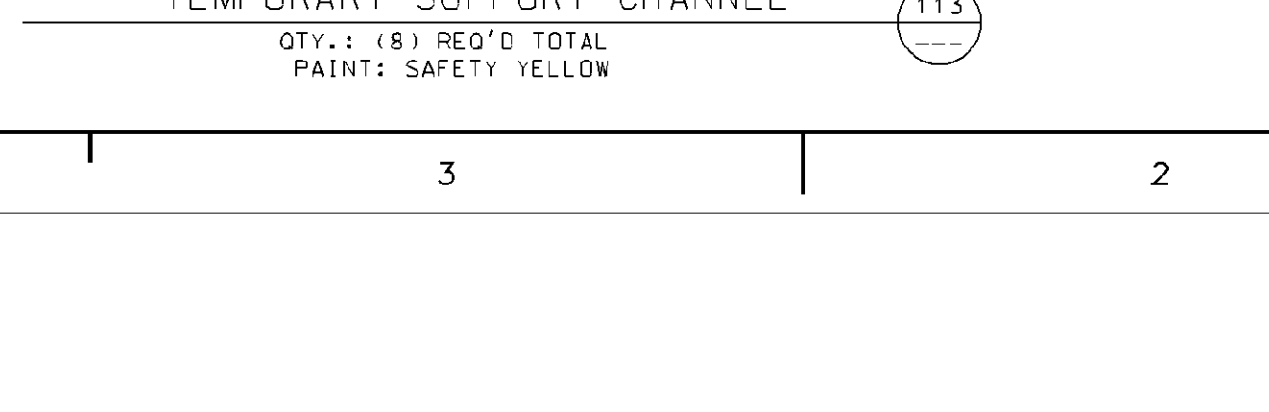
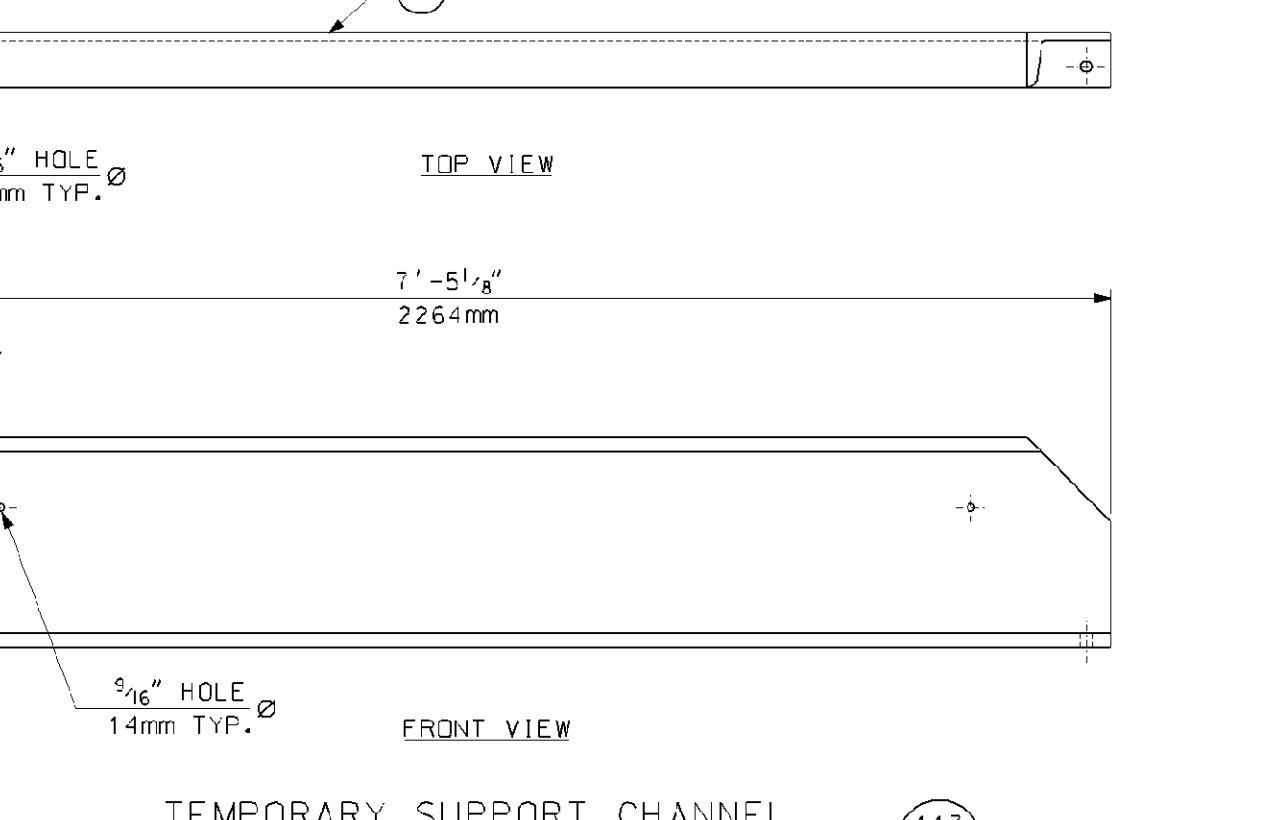
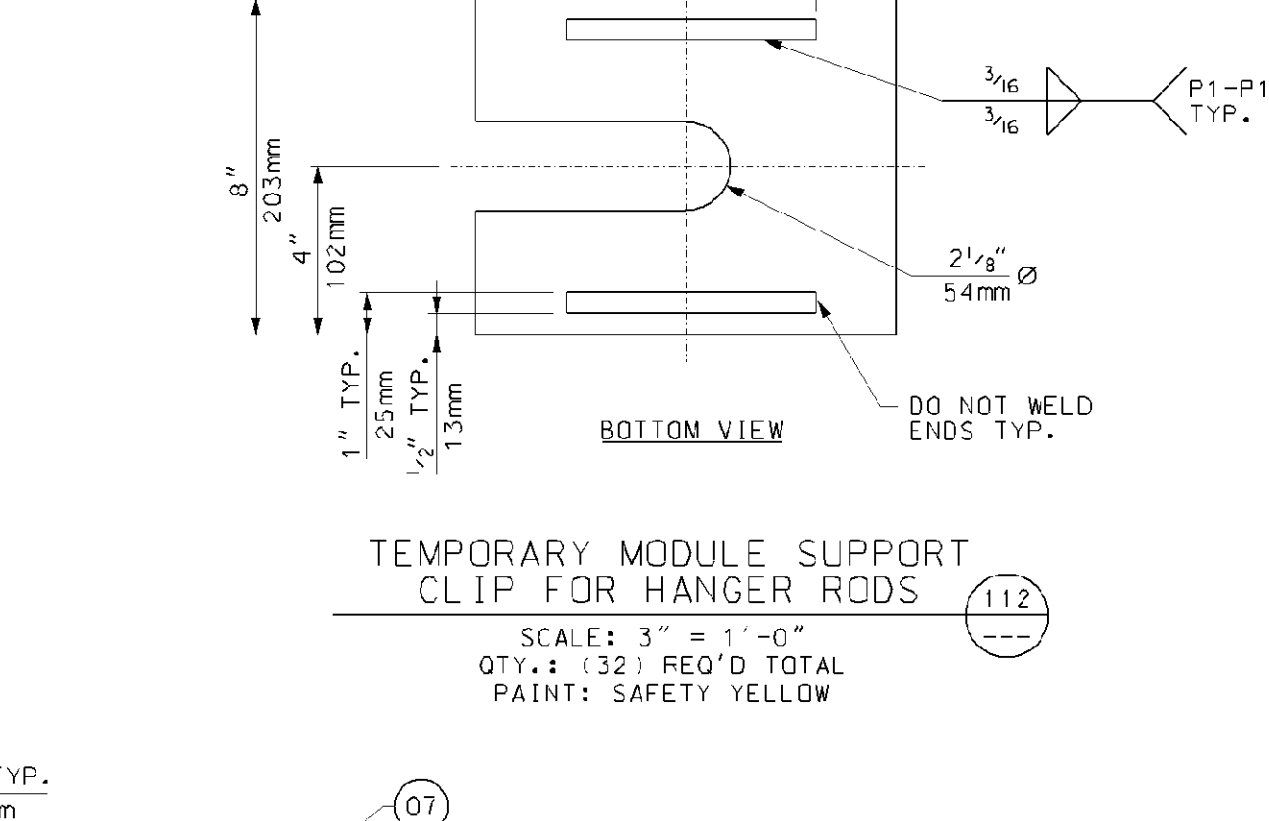
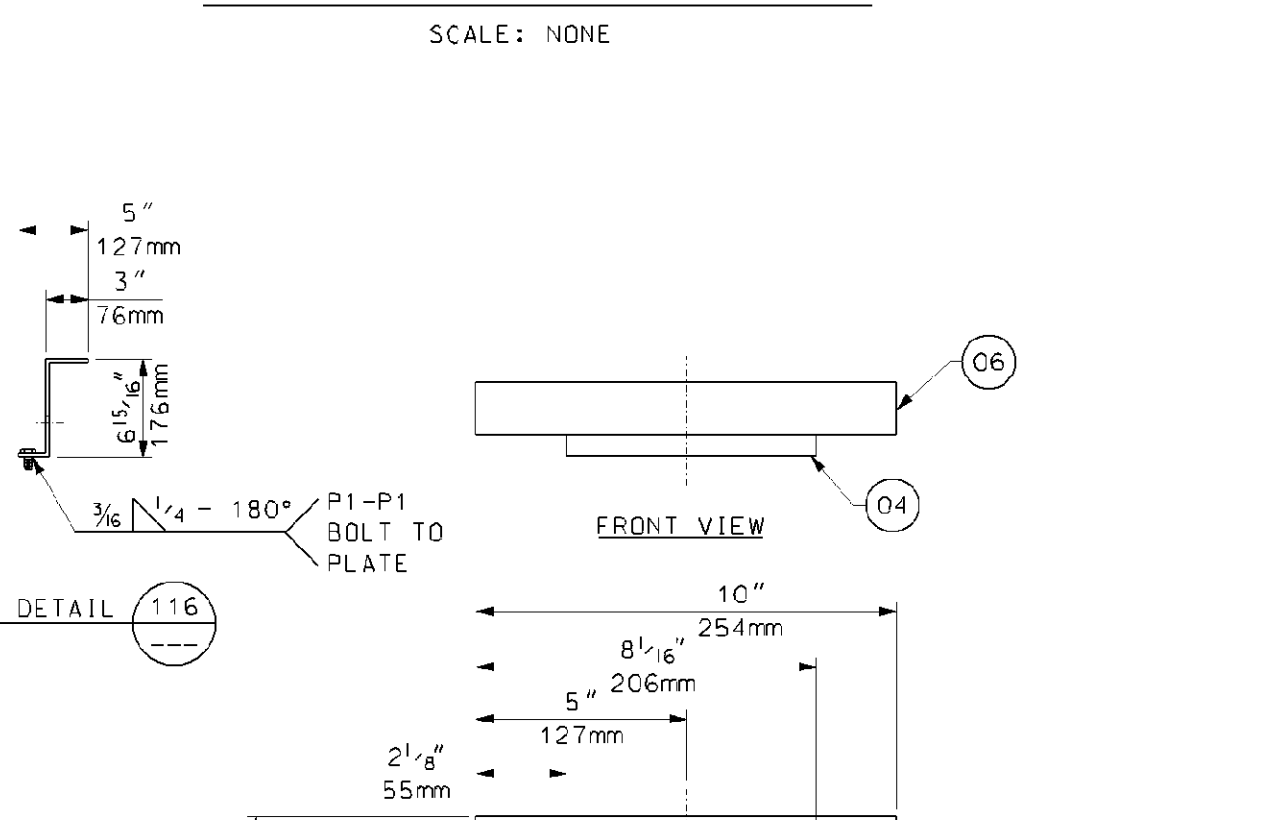
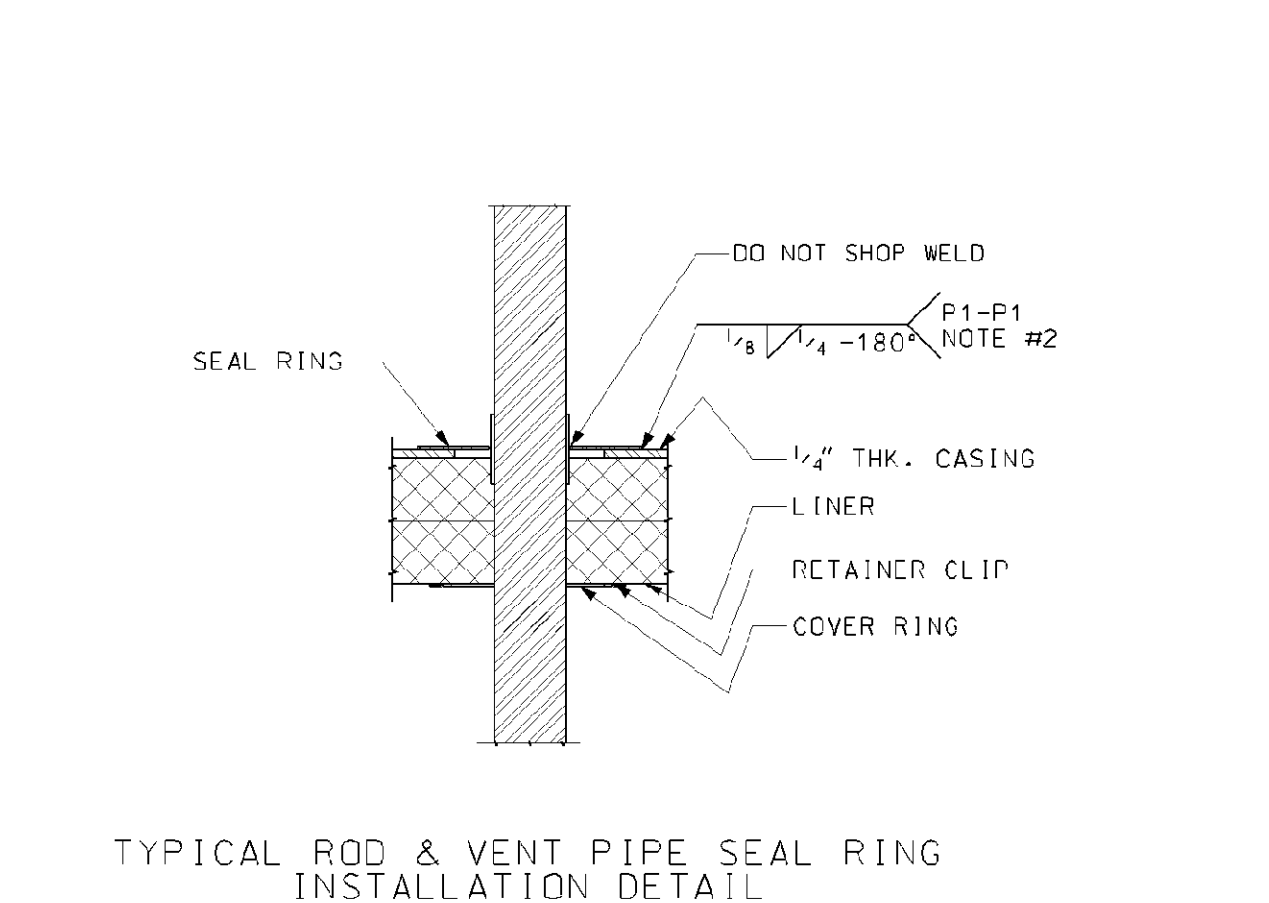
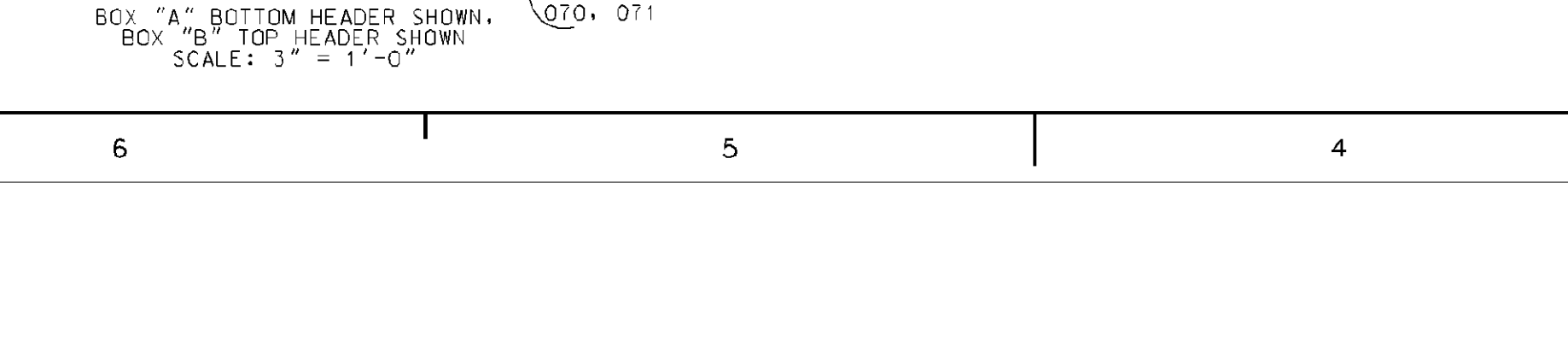
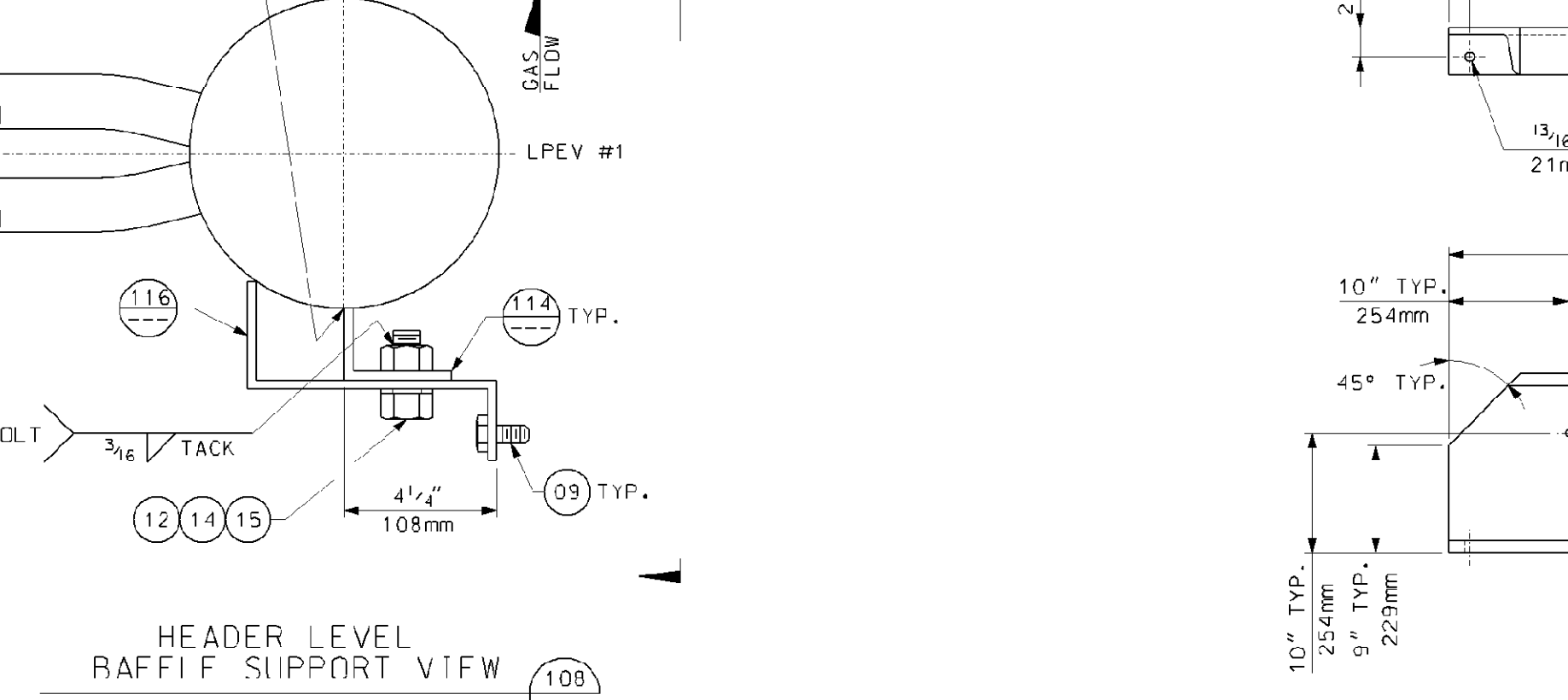
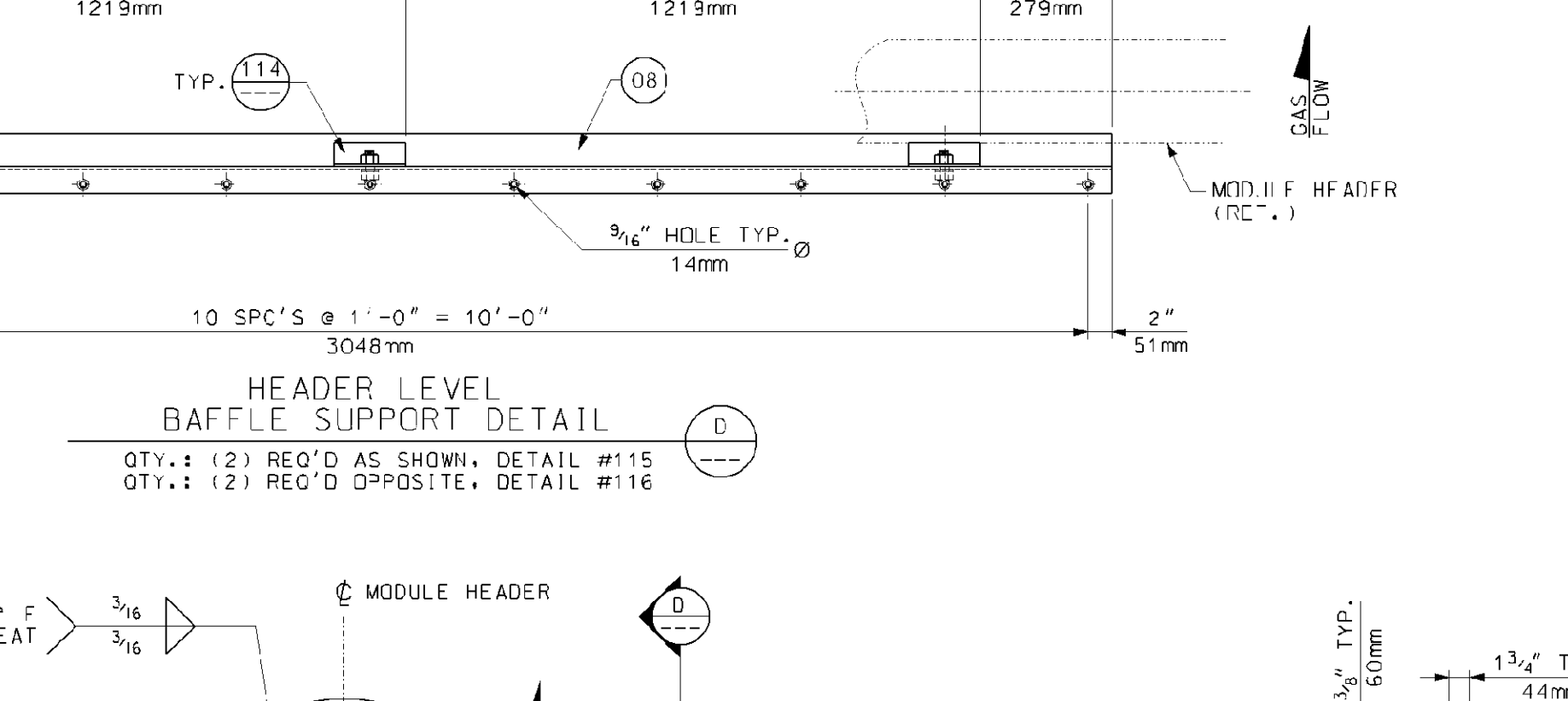
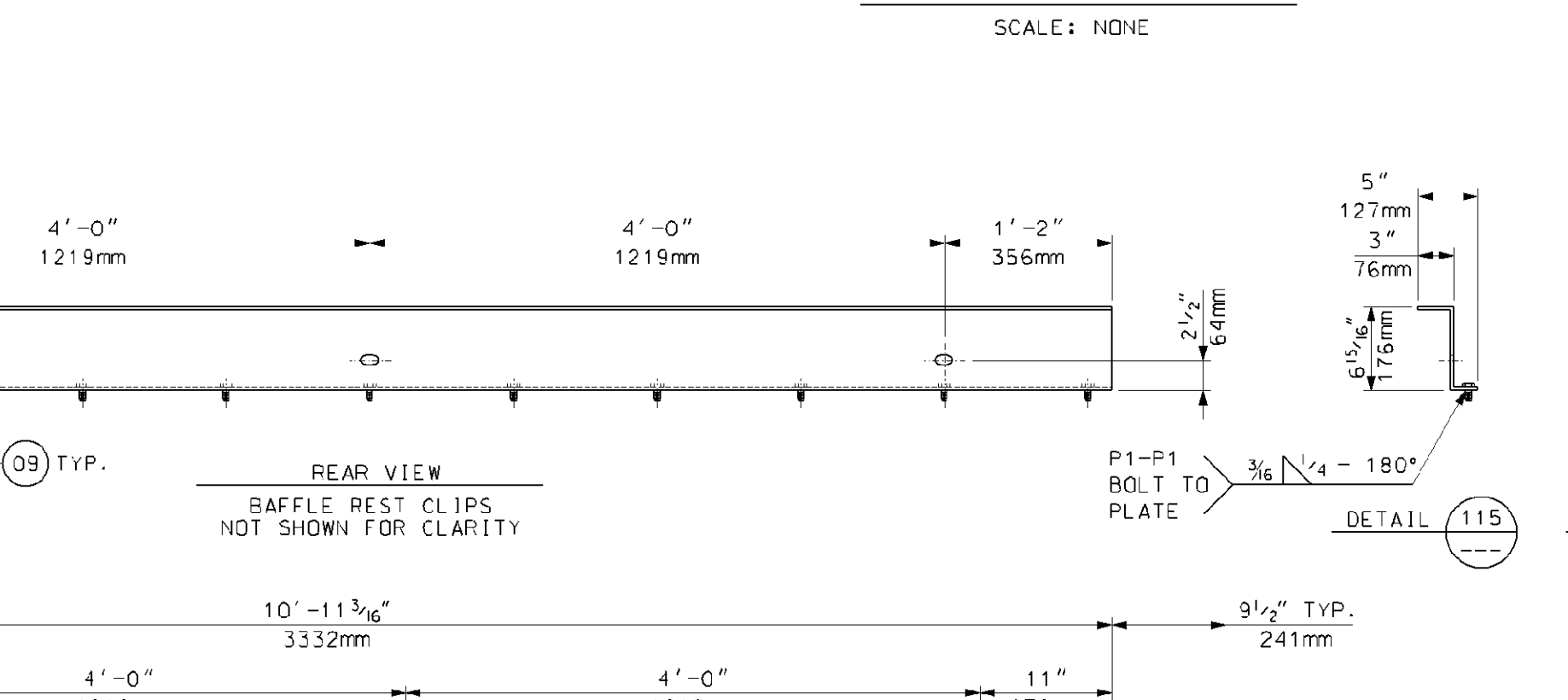
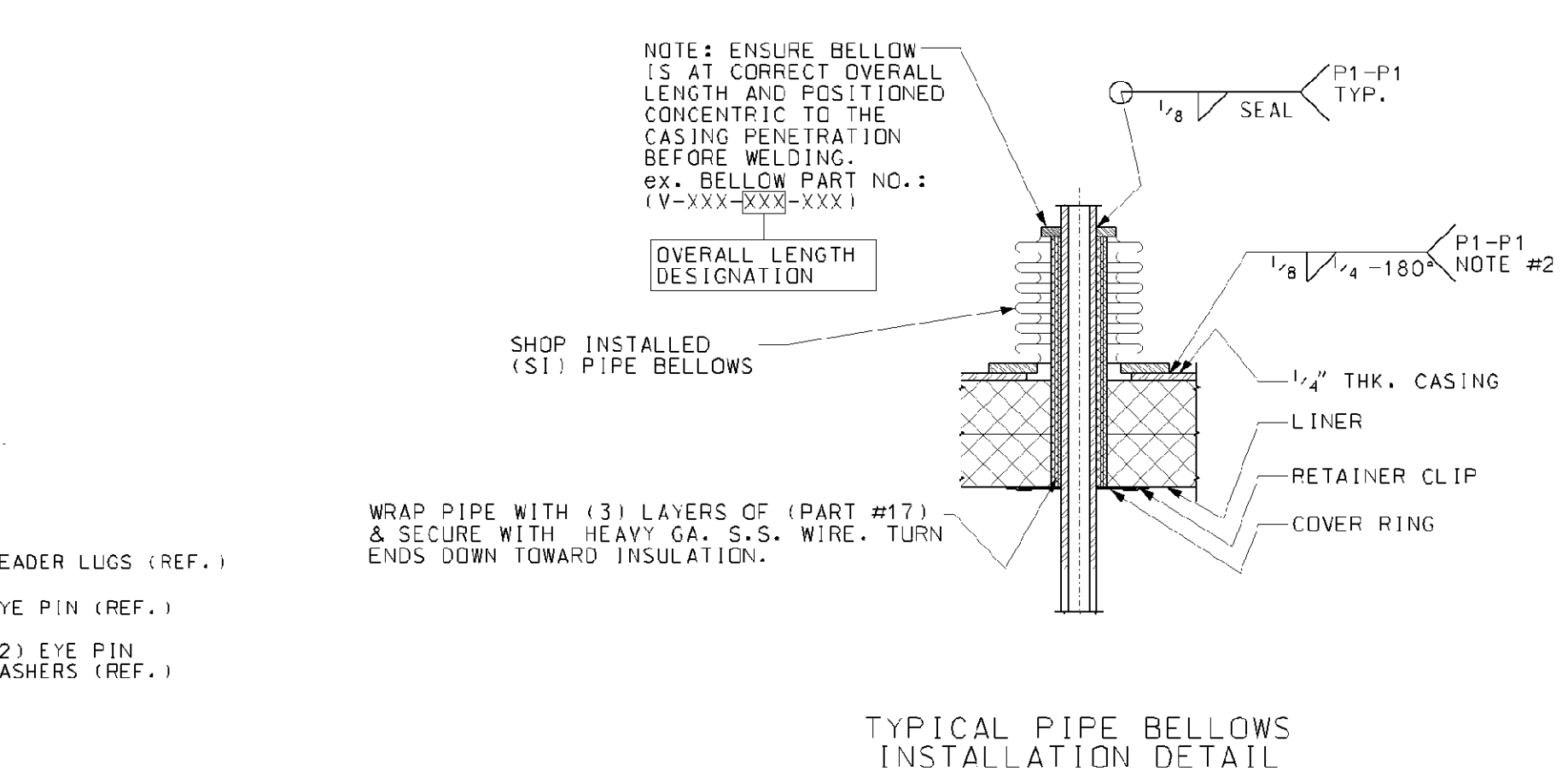
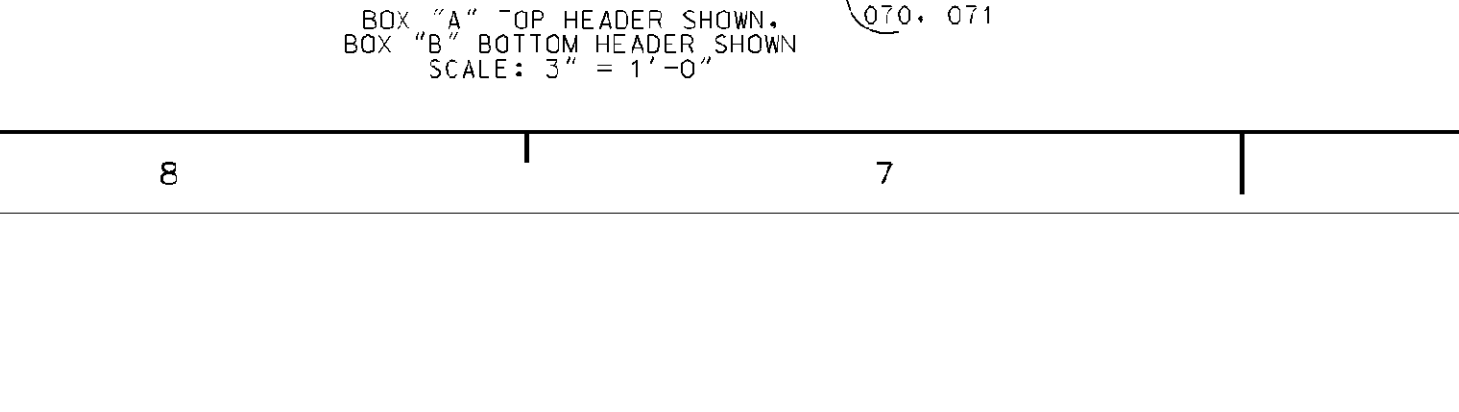
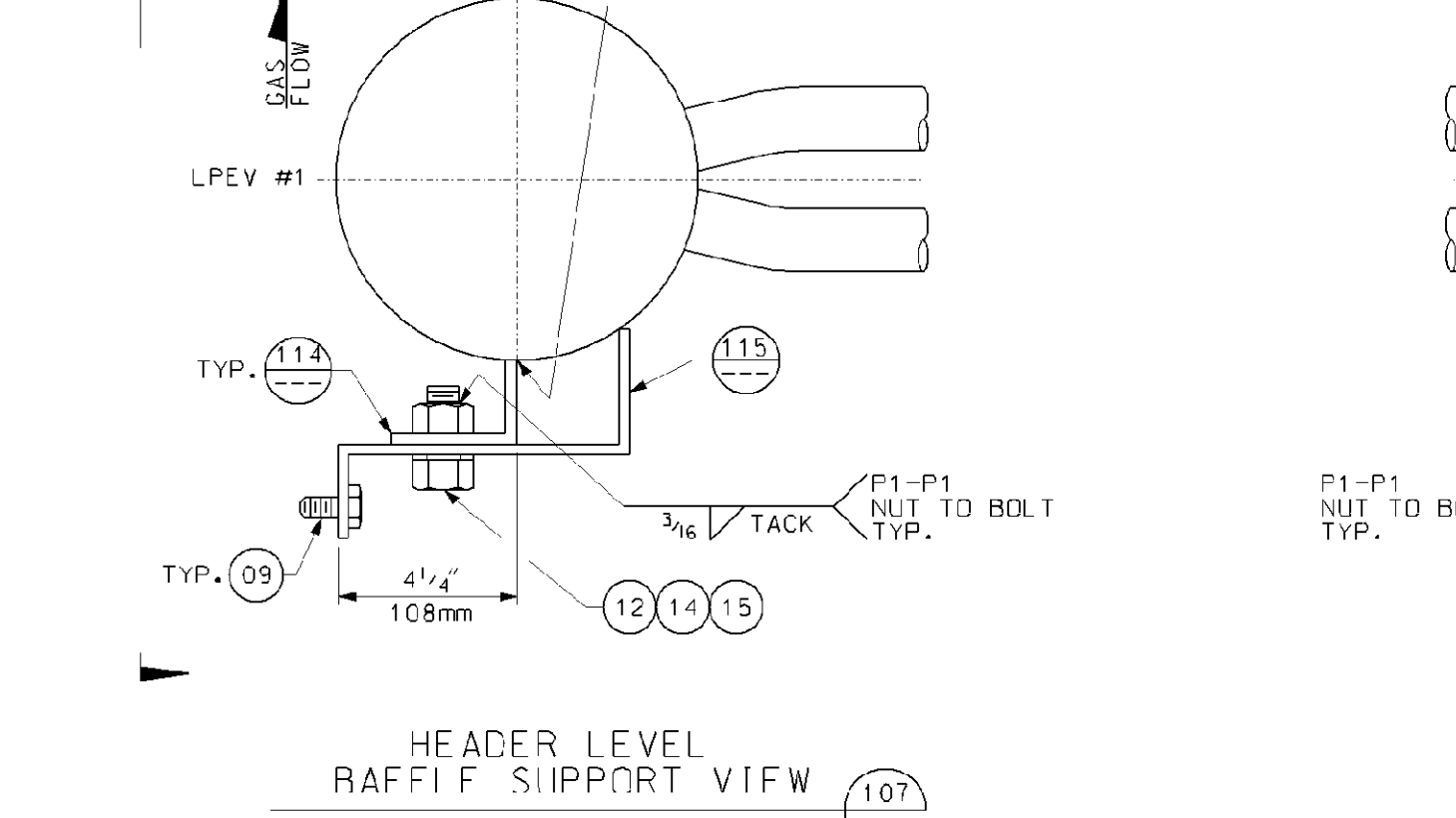
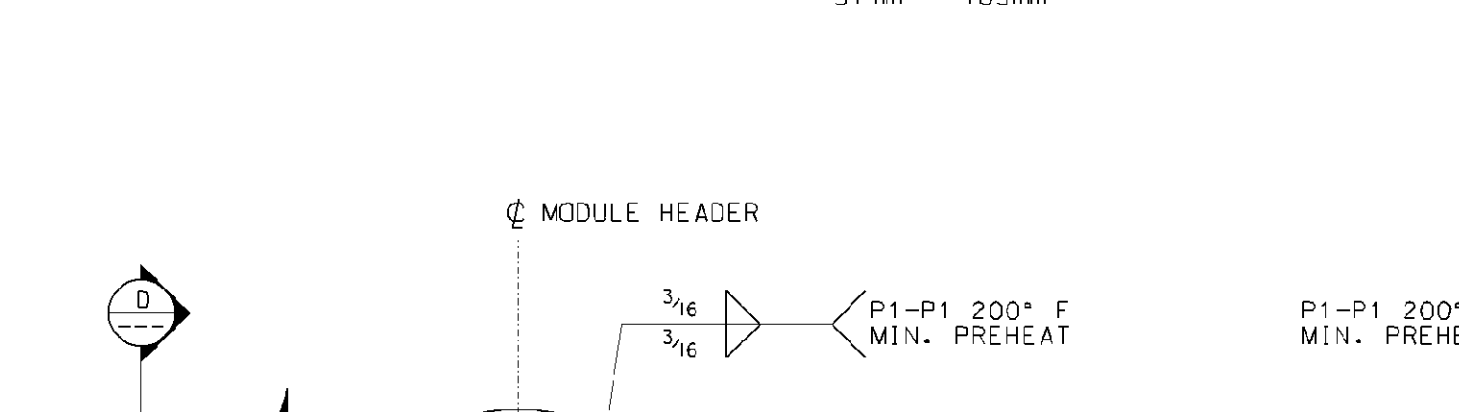
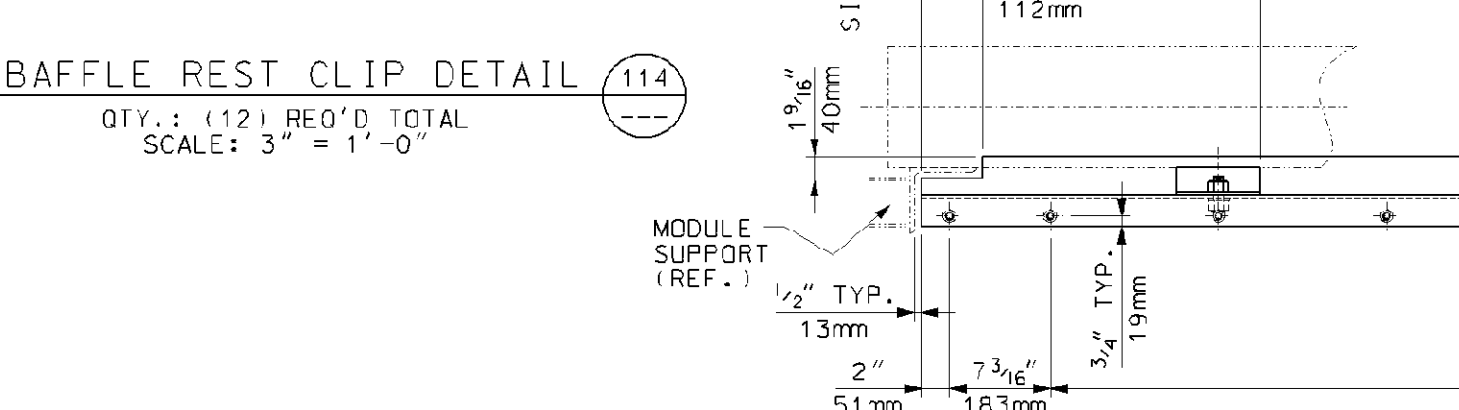
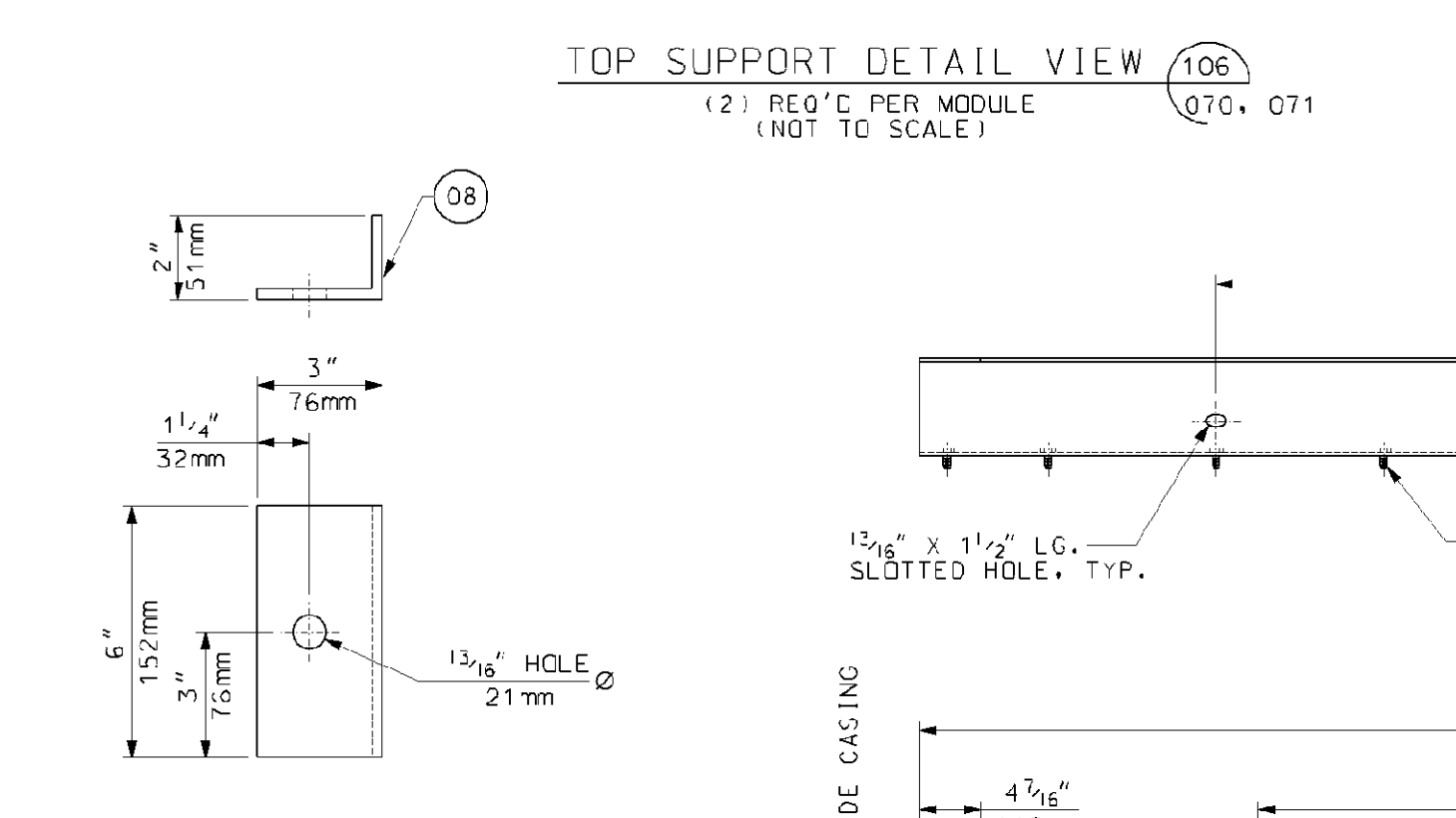
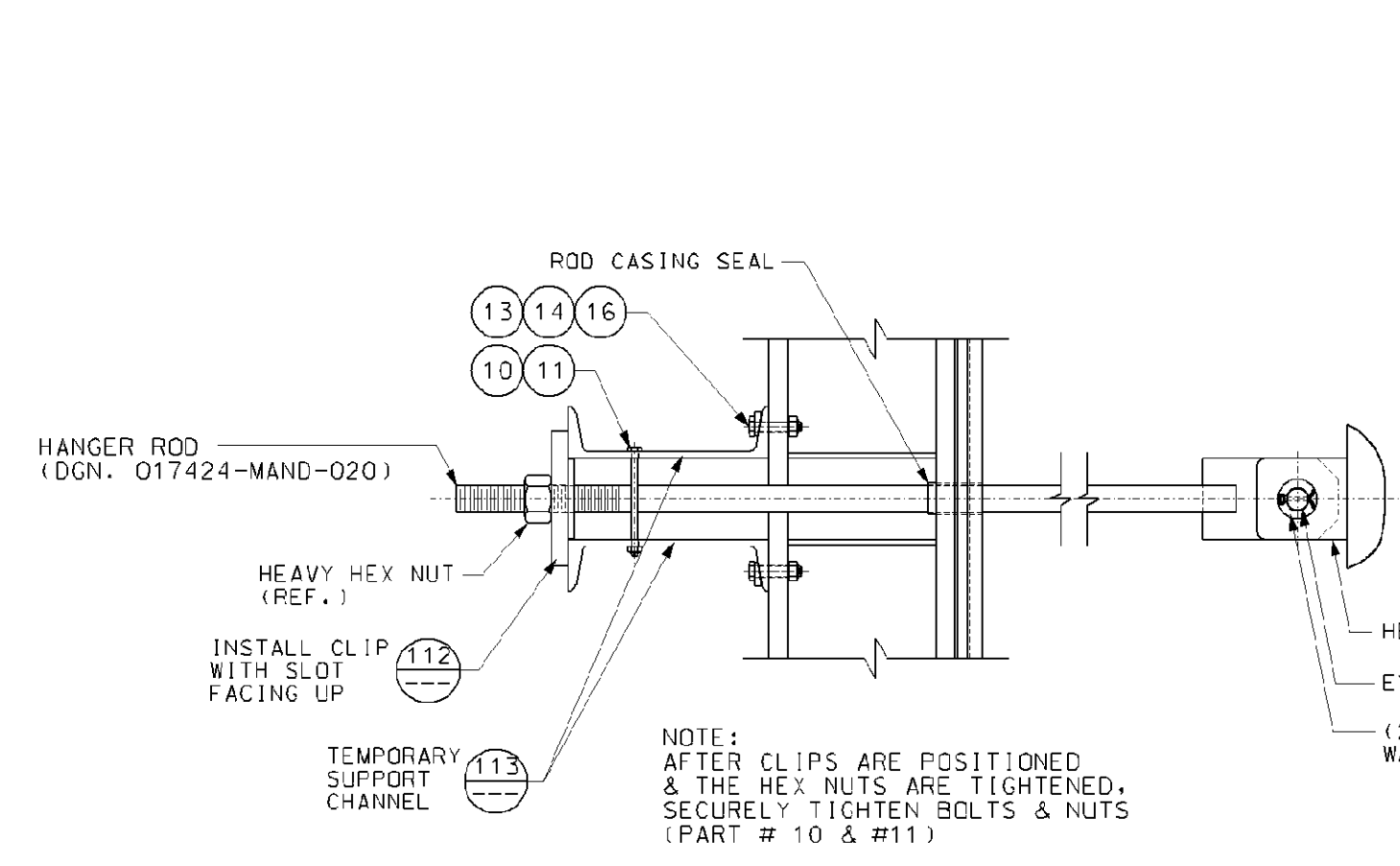
Title: **MODULE BOX ASSEMBLY**
BOX # 5B
MK'D MA50B

Voigt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VoigtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-071	00

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
Release for manufacture



BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
04	2	SO. FT. OF PLATE, 1/2" (12mm) THK.	JIS G3101-S400
06	18	SO. FT. OF PLATE, 1/4" (32mm) THK.	JIS G3101-S400
07	60	LIN. FT. OF CHANNEL, C380x100x13x20	JIS G3101-S400
08	44	SO. FT. OF PLATE, 1/2" (6mm) THK.	JIS G3101-S400
09	48	HEX BOLT, 1/2" DIA. (M12) x 1 1/2" LG.	ISO 8.8
10	8	HEX BOLT, 1/2" DIA. (M12) x 7 3/4" LG.	ISO 8.8
11	8	HEX NUT, 1/2" (M12) DIA.	ISO 8.8
12	12	BOLT, 3/4" DIA. (M20) x 1 1/2" LG.	ISO 8.8
13	8	BOLT, 3/4" DIA. (M20) x 3 1/2" LG.	ISO 8.8
14	20	NUT, 3/4" DIA. (M20)	ISO 8.8
15	12	WASHER, 3/4" DIA. (M20)	ISO 8.8
16	8	BEVEL WASHER, 3/4" DIA. (M20)	ISO 8.8
17	65	SO. FT. OF PAPER INSULATION, 1/8" THK. HIGH TEMPERATURE, LOW SHRINKAGE, CERAMIC FIBER	

PART NUMBERS ARE TO HAVE THE PREFIX OF "MA" FOR EXAMPLE: "50A"(BOX ASSY.) + "04" (PART #) WOULD BE "MA50A04"

GENERAL NOTES:

- ALL WELDS IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE.
- BEFORE INSTALLING BELLOWS OR SEAL RINGS, PACK ANY VOID WITH INSULATION.
- QUANTITIES SHOWN FOR (1) UNIT, (1) UNIT IS REQUIRED TOTAL.

REFERENCE DRAWINGS:

- 017424-MAND-070 - MODULE BOX ASSEMBLY BOX #5A
- 017424-MAND-071 - MODULE BOX ASSEMBLY BOX #5B
- 017424-MAND-072 - MODULE BOX ASSEMBLY VENTS AND DRAINS FOR BOXES 5A & 5B
- 017424-MAND-073 - MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS
- 017424-MAND-075 - ATTIC AND BASEMENT BAFFLES BOX 5
- 017424-MAND-076 - ATTIC AND BASEMENT BAFFLES BOX 5 DETAILS

Rev.	Description	Date	Drawn	Chk'd	Appr.
0	FIRST ISSUE	7/21/06	R.OMEN	J.D.	DP

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 for TIC / UE
 Vogt Power Project 17424

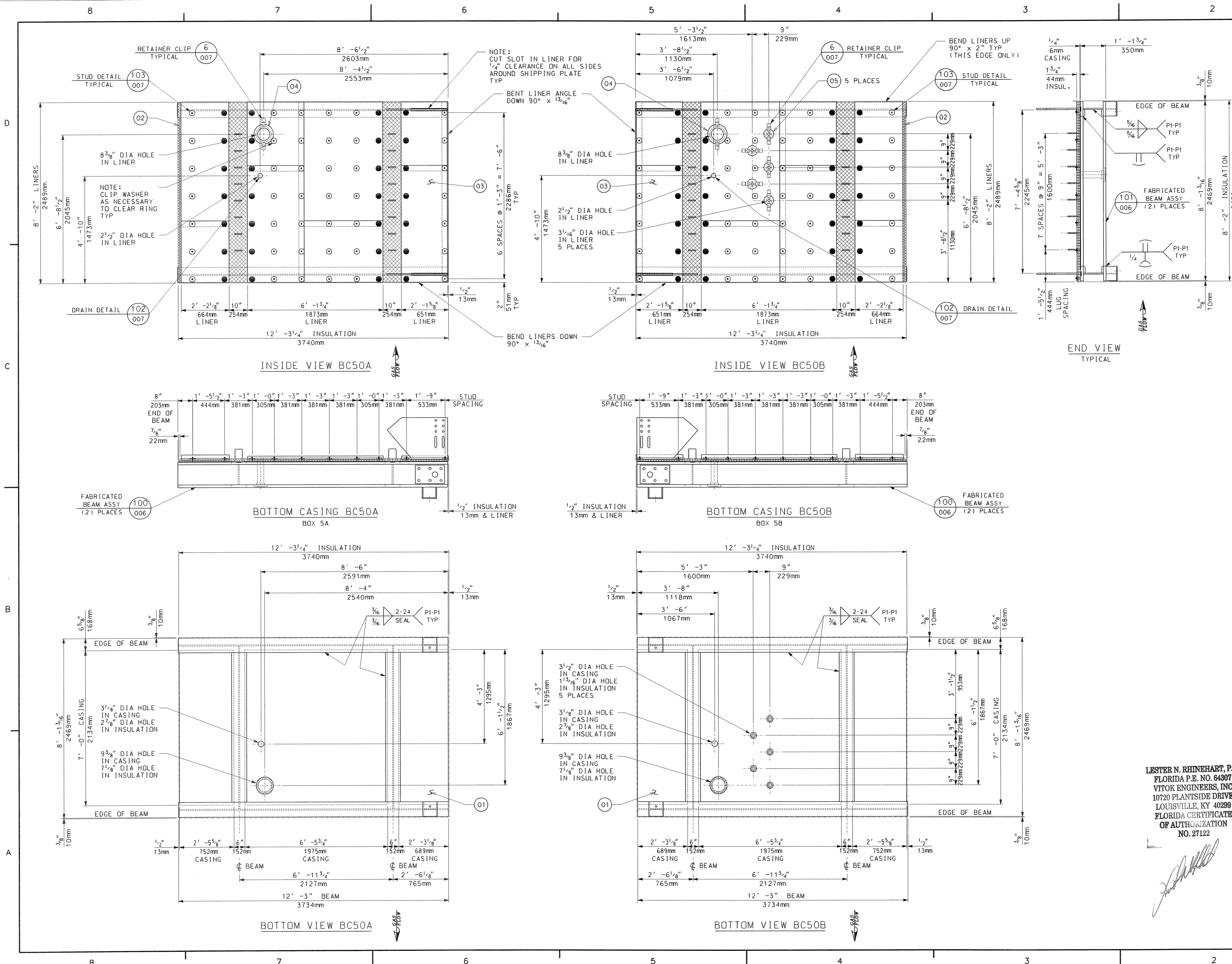
Title: MODULE BOX ASSEMBLY TYPICAL SECTIONS AND DETAILS



Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-MAND-074	00

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
 Release for manufacture



BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L SPEC.
01	158	50 FT OF PLATE, 1/4" THK	JIS 3101 SS400
02	405	50 FT OF INSULATION, 1" THK, 1800°F BH DENSITY	CERAMIC FIBER
03	195	50 FT OF SHEET, 16 GA THK	A-240 TP409SS
04	2	SHEET, 16 GA THK, 10 3/4" OD x 6 3/4" ID	A-240 TP409SS
05	5	SHEET, 16 GA THK, 5 1/8" OD x 1 1/8" ID	A-240 TP409SS

PART NO. ARE TO HAVE THE PREFIX "BC".
 FOR EXAMPLE, "50" (ASSEMBLY) + "01"
 (PART NUMBER) WOULD BE PART "BC5001".

- GENERAL NOTES:**
- SEE 017424-MANC-001 FOR "EQUIPMENT SPEC FOR SHOP FABRICATED MODULE BOX ASSEMBLIES".
 - ALL WELDING TO BE DONE IN ACCORDANCE WITH LATEST STANDARDS OF AWS STANDARD D1.1
 - SEAL WELD ALL STRUCTURAL MEMBERS TO CASING AND TO EACH OTHER GAS TIGHT.
 - PROVIDE A 3/4" DIA DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL BOLT HOLES ARE TO BE PUNCHED OR DRILLED.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/8" PER 1" TO GIVEN THICKNESS.
 - DENOTES STUDS TO HAVE WASHER AND NUT FINGER TIGHT ONLY. DO NOT TACK WELD UNTIL AFTER FIELD LINERS AND CONNECTIONS ARE MADE IN FIELD.
 - ALL DIMENSIONS AND WELDS MARKED "TYP" APPLY TO BOX A AND B.
 - TRIM LINER AND WASHERS WITH 1/2" CLEARANCE, U.N.O. AS NECESSARY AT THE TIME OF ASSEMBLY.
 - APPROXIMATE ASSEMBLY WEIGHT: 5550 LBS PER BOX
 - QUANTITIES SHOWN ARE FOR ONE (1) UNIT, ONE (1) UNIT TOTAL REQUIRED.

REFERENCE DRAWINGS:
 017424-BCND-006 BOTTOM CASING DETAILS
 017424-BCND-007 BOTTOM CASING DETAILS
 017424-EBND-103 STANDARD FABRICATION TOLERANCE FOR TOP AND BOTTOM CASINGS

M012525-SGAS010 R0 TREASURE COAST		10/1/2006	
Review does not relieve contractor from responsibility for errors or deviations from contract requirements	<input type="checkbox"/> NO EXCEPTIONS NOTED Release for manufacture	<input type="checkbox"/> EXCEPTIONS NOTED Release for manufacture	<input type="checkbox"/> RETURNED FOR CORRECTION Do not proceed Revise and resubmit for authorization
UTILITY ENGINEERING			

FYI					
5					
4					
3					
2					
1					
0	FIRST ISSUE	05/31/06	BP	RON C	LNR DP
Rev.	Description	Date	Drawn	Chkd. 1	Chkd. 2

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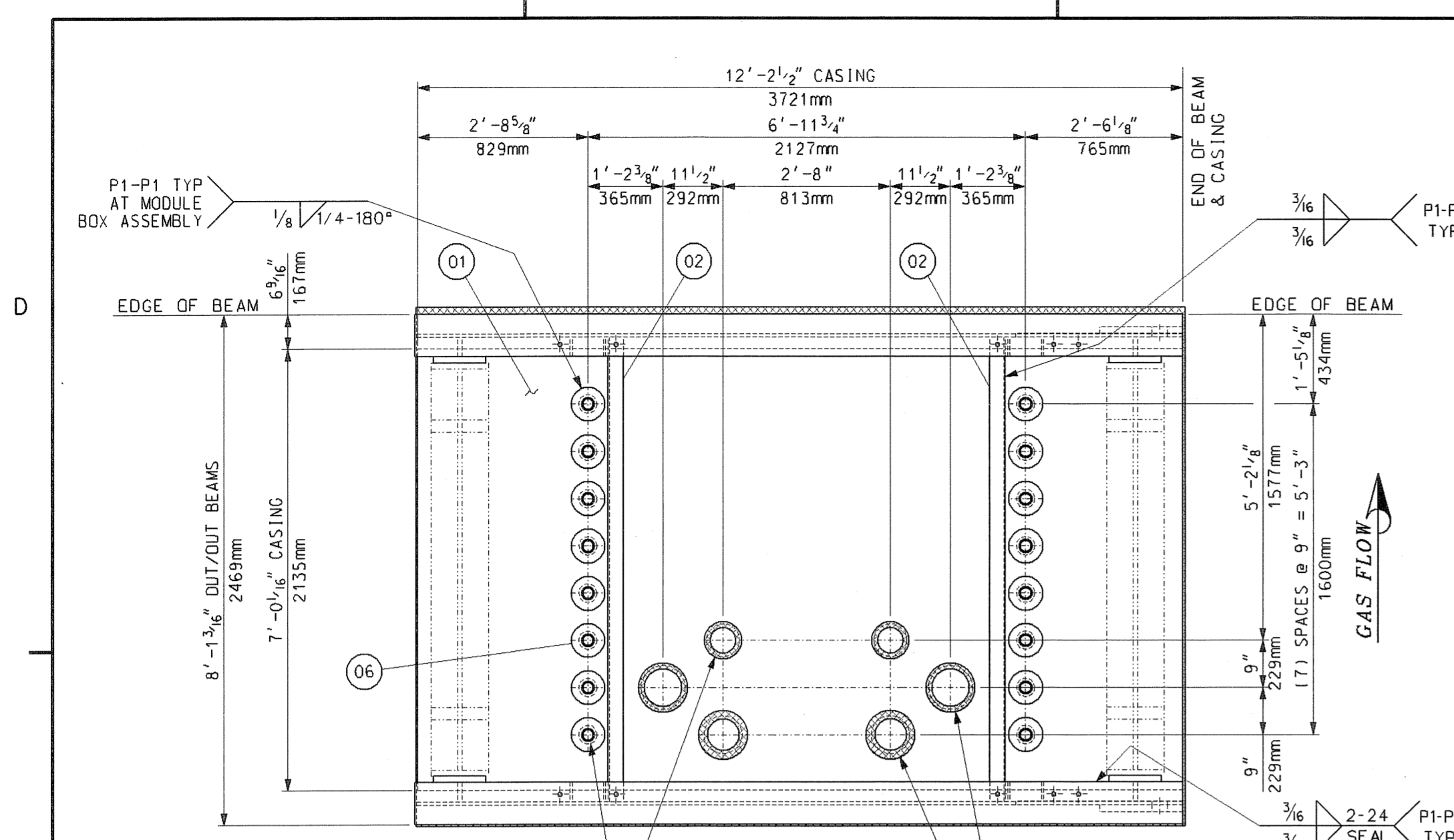
Florida Municipal Power Agency
 Treasure Coast Energy Center, FB1
 for TIC / UE
 Vogt Power Project 17424

Title
BOTTOM CASING - BOX 5A & 5B (BC50A & BC50B)

VogtPower International
 4000 DuPont Circle
 Louisville, Ky. 40207 USA
 www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-BCND-005	00

LESTER N. RHINEHART, P.E.
 FLORIDA P.E. NO. 64307
 VITOK ENGINEERS, INC
 10720 PLANTSIDE DRIVE
 LOUISVILLE, KY 40299
 FLORIDA CERTIFICATE
 OF AUTHORIZATION
 NO. 27122



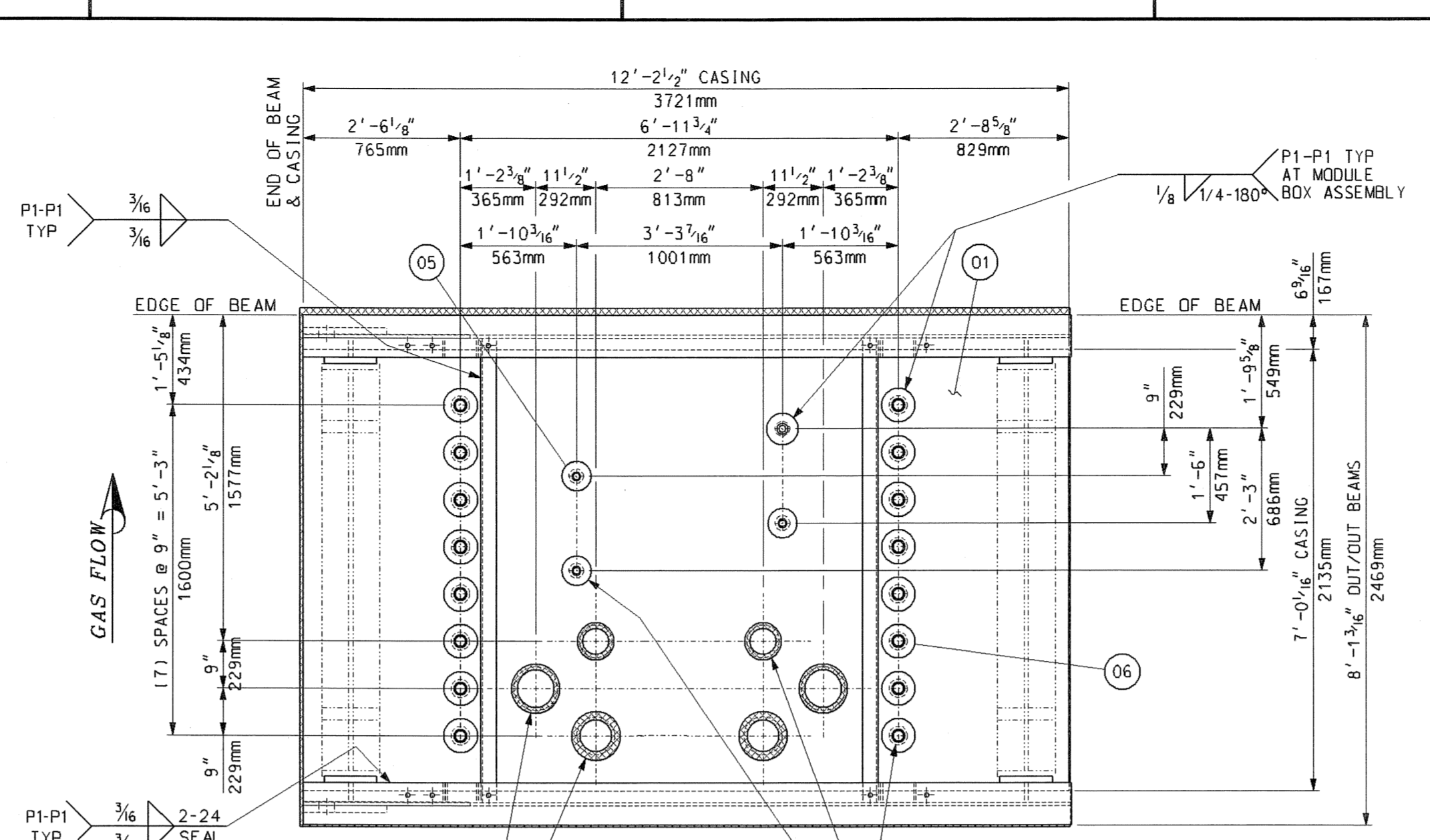
3 1/2" (289mm) DIA. IN CASING
2" (51mm) DIA. IN INSULATION
(16) PLACES

7 1/2" (181mm) DIA. IN CASING
5" (127mm) DIA. IN INSULATION
(2) PLACES

9 3/8" (238mm) DIA. IN CASING
7 1/8" (154mm) DIA. IN INSULATION
(2) PLACES

9 3/8" (238mm) DIA. IN CASING
6 1/16" (154mm) DIA. IN INSULATION
(2) PLACES

**TOP CASING TC50A
PLAN VIEW**



9 3/8" (238mm) DIA. IN CASING
7 1/2" (154mm) DIA. IN INSULATION
(2) PLACES

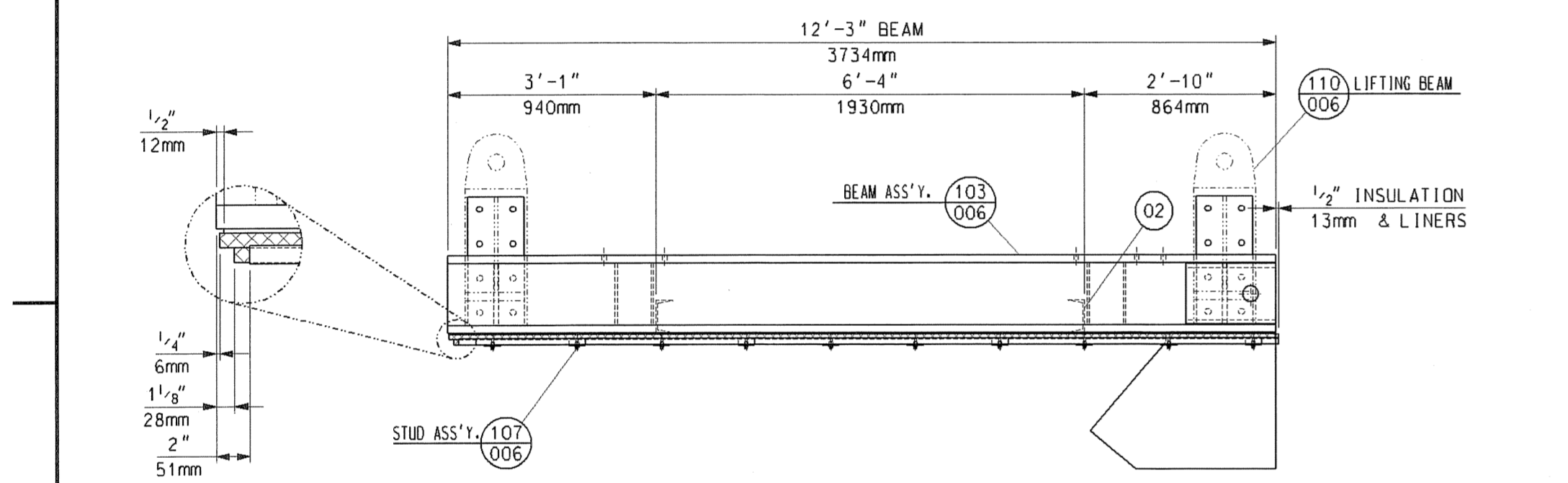
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6 1/16" (154mm) DIA. IN INSULATION
(2) PLACES

2 1/8" (71mm) DIA. IN CASING
1 5/16" (33mm) DIA. IN INSULATION
(4) PLACES

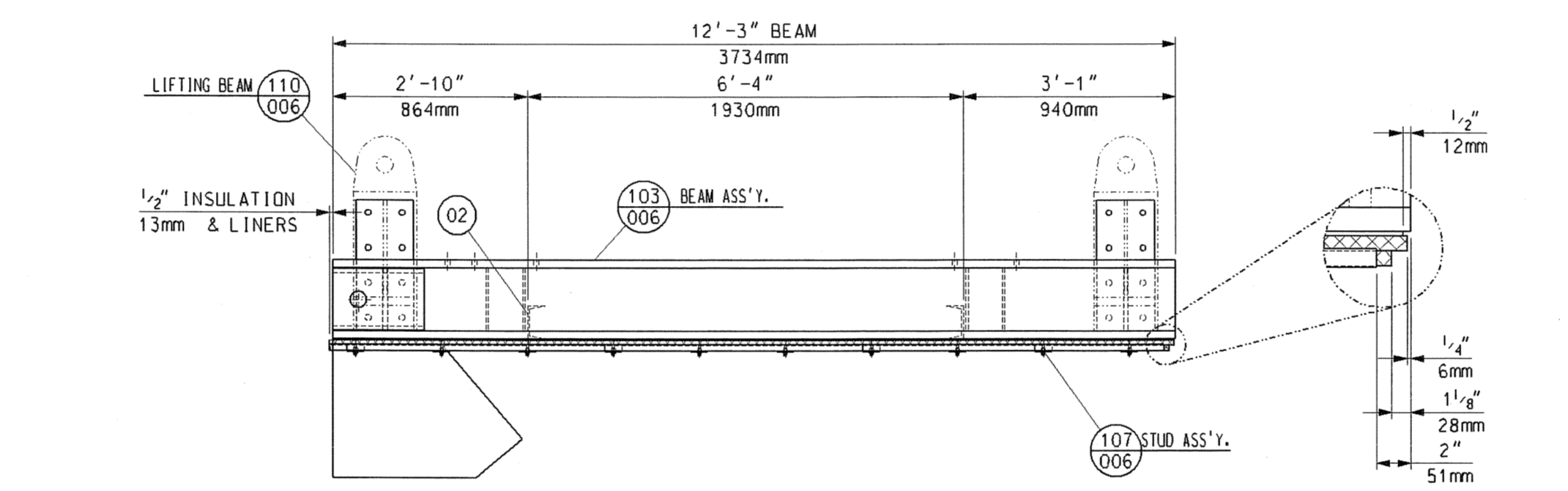
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2" (51mm) DIA. IN INSULATION
(16) PLACES

7 1/2" (181mm) DIA. IN CASING
5" (127mm) DIA. IN INSULATION
(2) PLACES

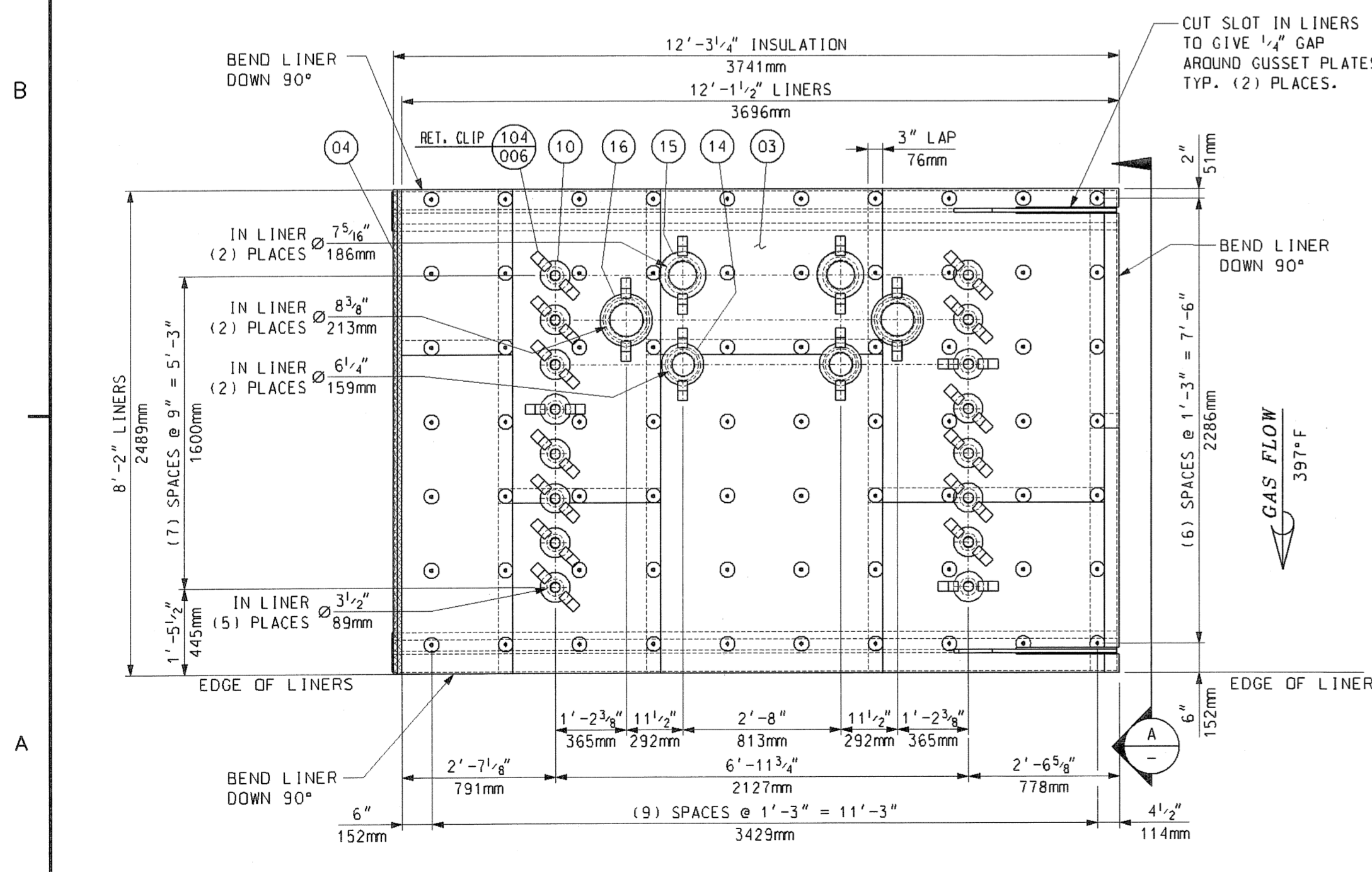
**TOP CASING TC50B
PLAN VIEW**



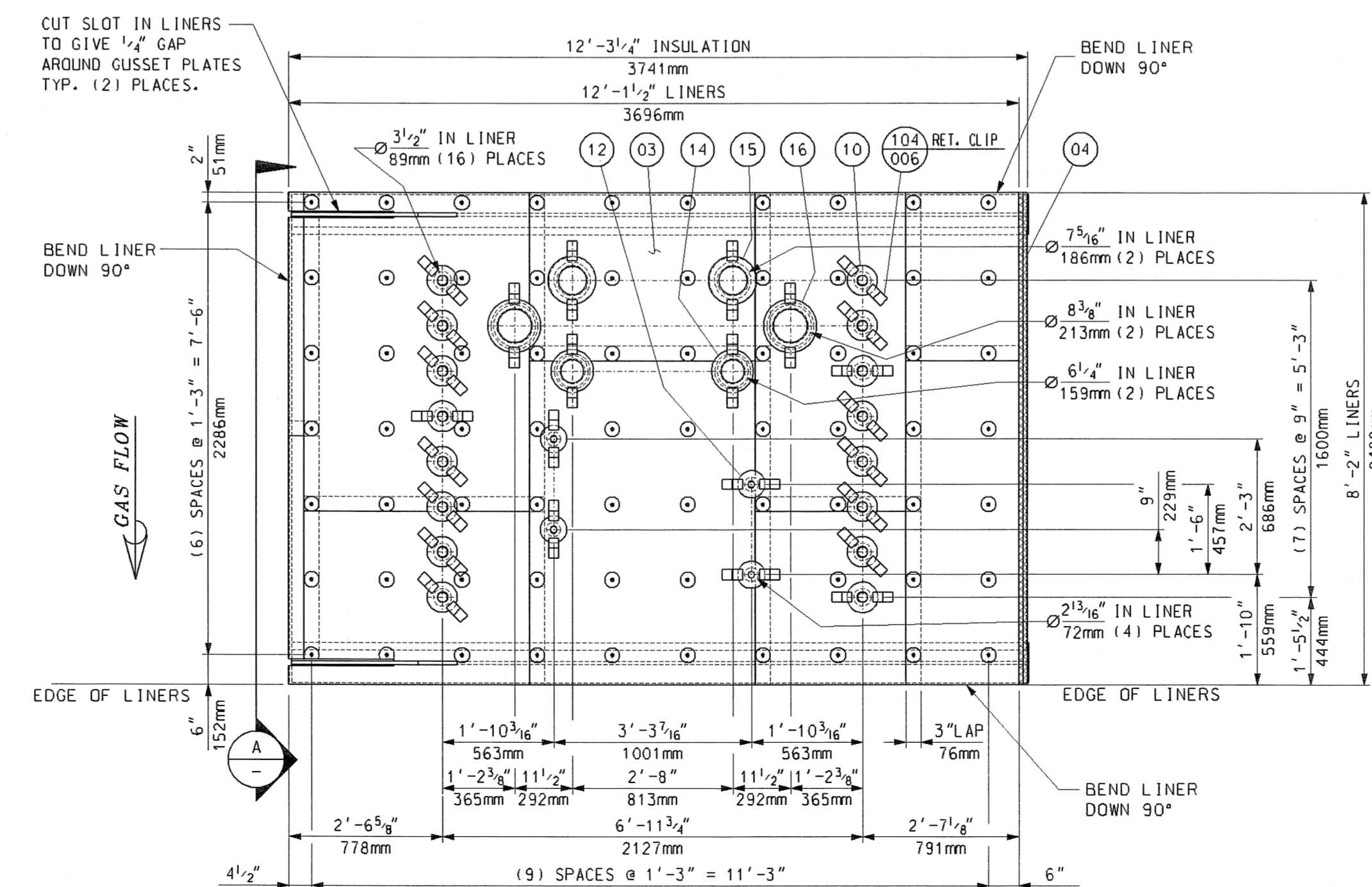
**TOP CASING TC50A
FRONT VIEW**



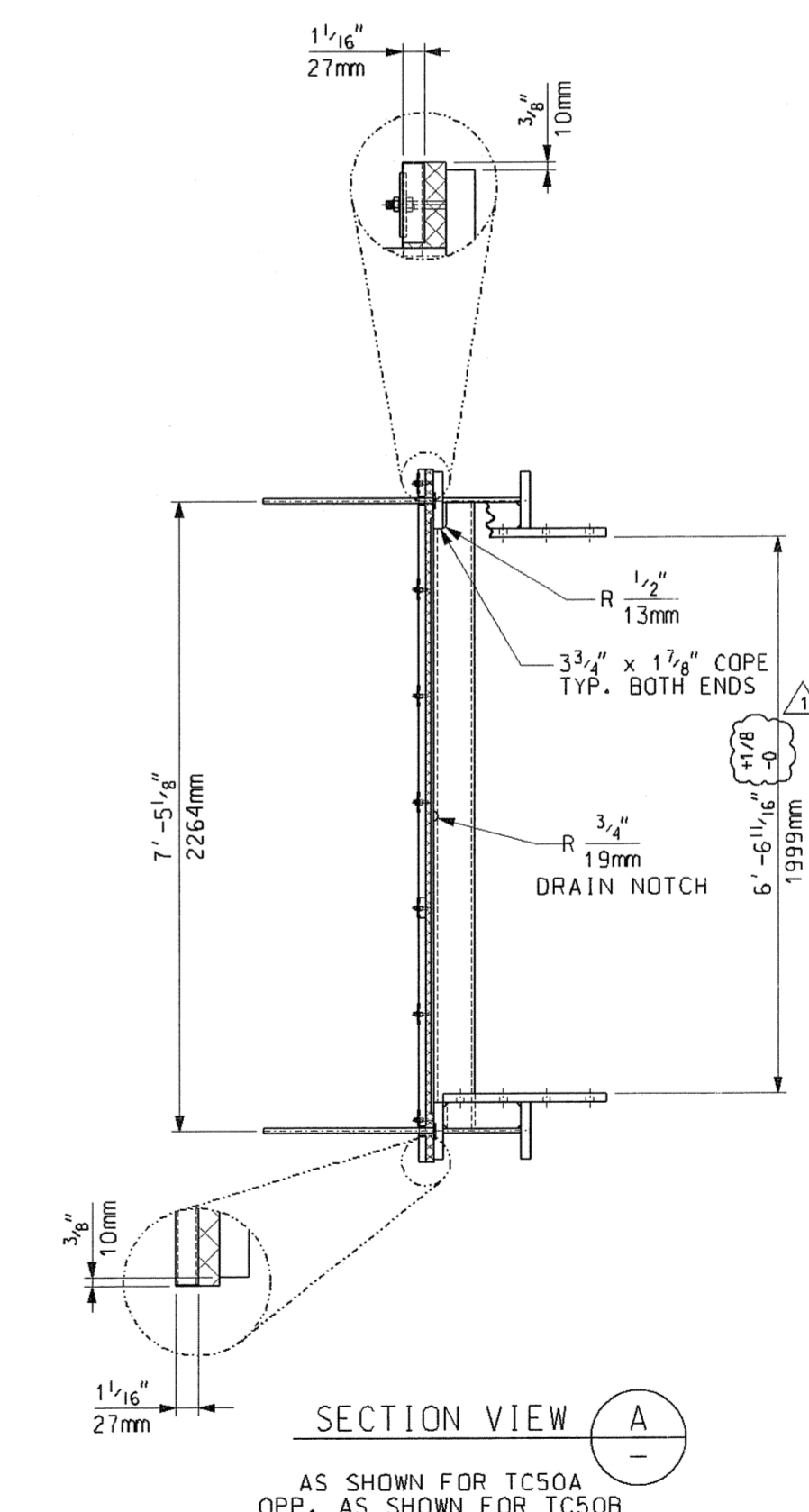
**TOP CASING TC50B
FRONT VIEW**



**TOP CASING TC50A
INSIDE VIEW**



**TOP CASING TC50B
INSIDE VIEW**



SECTION VIEW A
AS SHOWN FOR TC50A
OPP. AS SHOWN FOR TC50B

LESTER N. RHINEHART, P.E.
FLORIDA P.E. NO. 64307
VITOK ENGINEERS, INC
10720 PLANTSIDE DRIVE
LOUISVILLE, KY 40289
FLORIDA CERTIFICATE
OF AUTHORIZATION
NO. 27122

BILL OF MATERIALS				
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.	
01	2	PLATE, 1/2" THK., 7'-0 1/4" x 12'-2 1/2"	JIS 3101-S5400	
02	4	CHANNEL, C150x75x6.5x10 x 7'-4 3/8" LG.	JIS 3101-S5400	
03	200	SO. FT. OF SHEET, 16 GA. (1.5mm) THK.	A-240 TP409	
04	400	SO. FT. OF INSULATION 1" THK. 1800°F #8 DENSITY CERAMIC FIBER	A568	
05	4	SHEET, 10 GA. (3.5mm) THK. 6"OD x 2 1/2"ID	A568	
06	32	SHEET, 16 GA. (1.5mm) THK. 6 1/2"OD x 2 1/2"ID	A-240 TP409	
10	32	SHEET, 16 GA. (1.5mm) THK. 5 1/2"OD x 1 1/2"ID	A-240 TP409	
12	4	SHEET, 16 GA. (1.5mm) THK. 8 3/4"OD x 4 5/8"ID	A-240 TP409	
14	4	SHEET, 16 GA. (1.5mm) THK. 9 1/4"OD x 5 1/4"ID	A-240 TP409	
15	4	SHEET, 16 GA. (1.5mm) THK. 10 3/4"OD x 6 3/4"ID	A-240 TP409	
16	4	SHEET, 16 GA. (1.5mm) THK. 10 3/4"OD x 6 3/4"ID	A-240 TP409	
103	2	BEAM ASSEMBLY	SHT 006	
104	96	RETAINER CLIP	SHT 006	
107	139	STUD DETAIL	SHT 006	
110	2	LIFTING BEAM ASSEMBLY (FIELD INSTALLED)	SHT 006	

PART NUMBERS TO HAVE THE PREFIX "TC50". FOR EXAMPLE PART No. 01 WOULD BE TC5001.

GENERAL NOTES:

- SEE 017424-TCND-001 FOR GENERAL NOTES.
- APPROXIMATE ASSEMBLY WEIGHT: 5,300 LBS. EA.
- QTY. SHOWN FOR ONE (1) UNIT. ONE (1) UNIT IS REQ'D TOTAL.

REFERENCE DRAWINGS:

FYI

**M012525-SGAS081 R1
TREASURE COAST
10/1/2006**

NO EXCEPTIONS NOTED Release for manufacture	NO EXCEPTIONS NOTED Release for manufacture
EXCEPTIONS NOTED Release for manufacture	EXCEPTIONS NOTED Release for manufacture
EXCEPTIONS NOTED Revise and resubmit for distribution	EXCEPTIONS NOTED Revise and resubmit for distribution
RETURNED FOR CORRECTION Do not proceed	RETURNED FOR CORRECTION Do not proceed
Revise and resubmit for authorization	Revise and resubmit for authorization

Rev.	Description	Date	Drawn	Chkd.	Appr.
5					
4					
3					
2					
1	ADDED DIMENSIONAL TOLERANCE BETWEEN LUGS	06/20/06	MAS	JD	
0	FIRST ISSUE	06/01/06	SJudd	JD	DP

Revisions

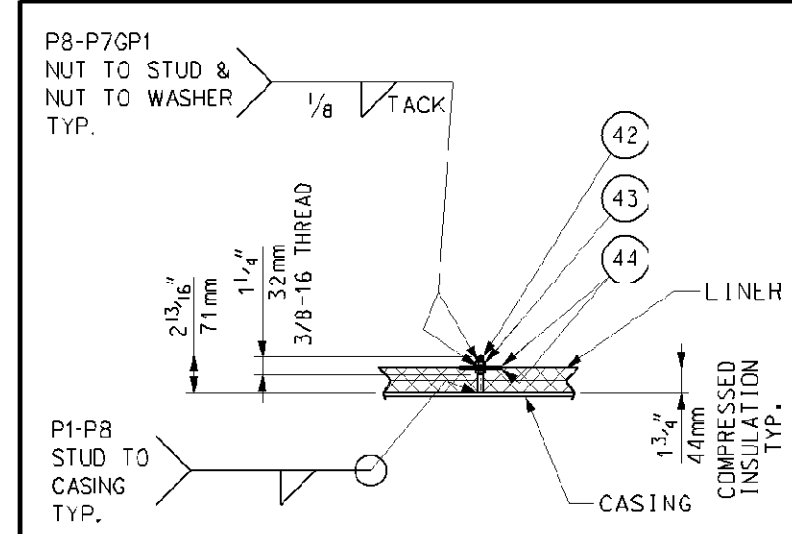
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Florida Municipal Power Agency
Treasure Coast Energy Center, PB1
for TIC / UE
Vogt Power Project 17424

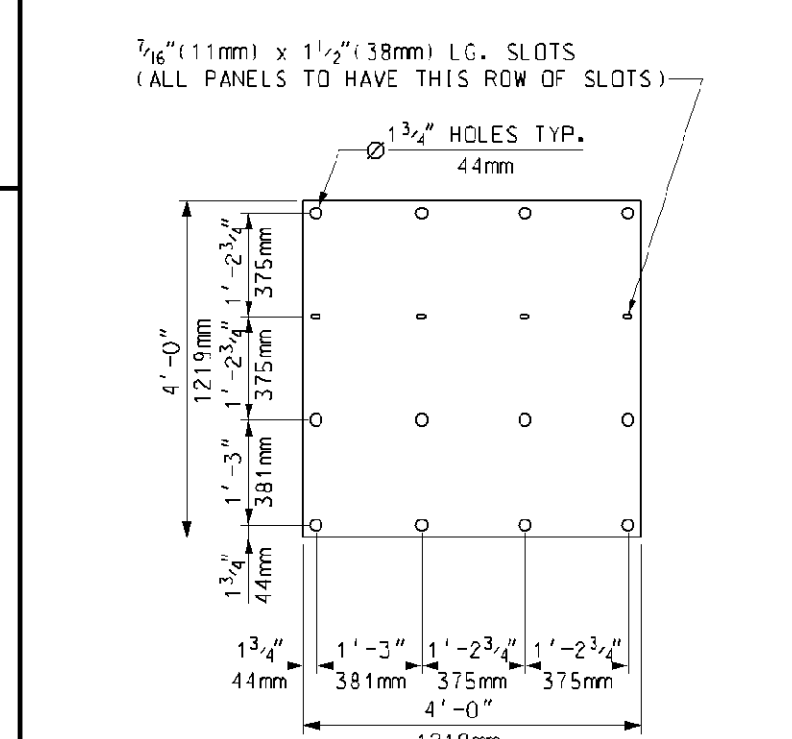
TOP CASING ASSEMBLIES
TC50 (BOX 5A & 5B)

Vogt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

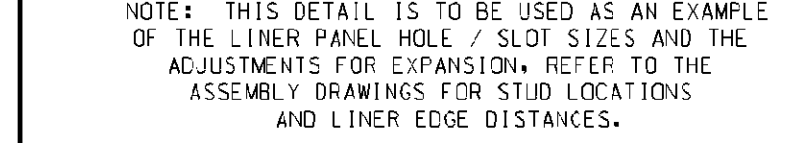
Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-TCND-005	01



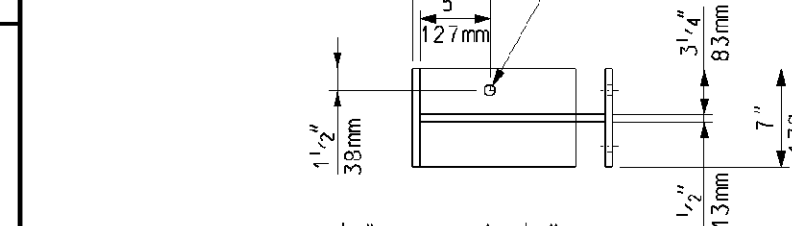
STUD ASS'Y.
SCALE: 1"=1'-0"



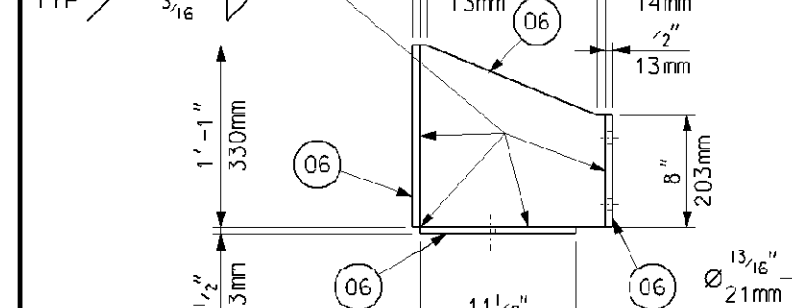
GENERAL LINER PANEL DETAIL
NOTE: THIS DETAIL IS TO BE USED AS AN EXAMPLE OF THE LINER PANEL HOLE / SLOT SIZES AND THE ADJUSTMENTS FOR EXPANSION. REFER TO THE ASSEMBLY DRAWINGS FOR STUD LOCATIONS AND LINER EDGE DISTANCES.



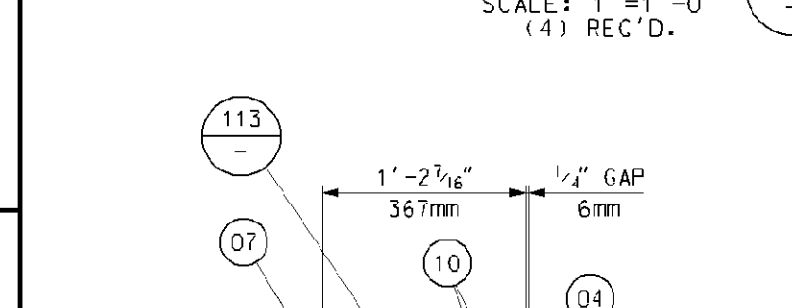
GAS FLOW SECTION VIEW A
SCALE: 1"=1'-0"



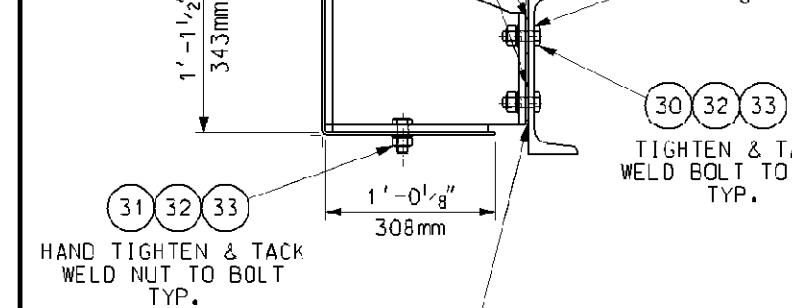
BRACKET
SCALE: 1"=1'-0"
(4) REC'D.



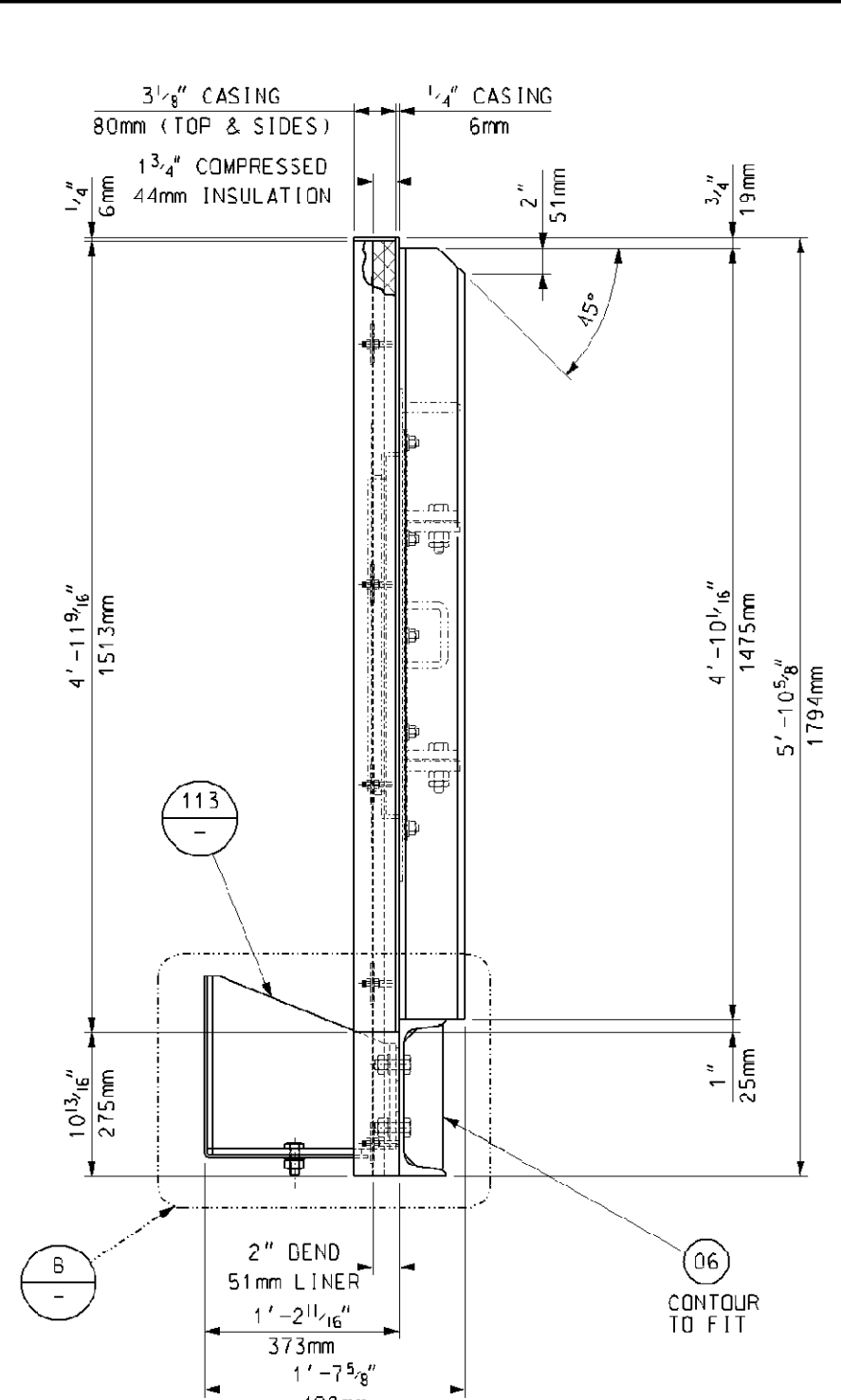
RETAINER CLIP
SCALE: 3"=1'-0"



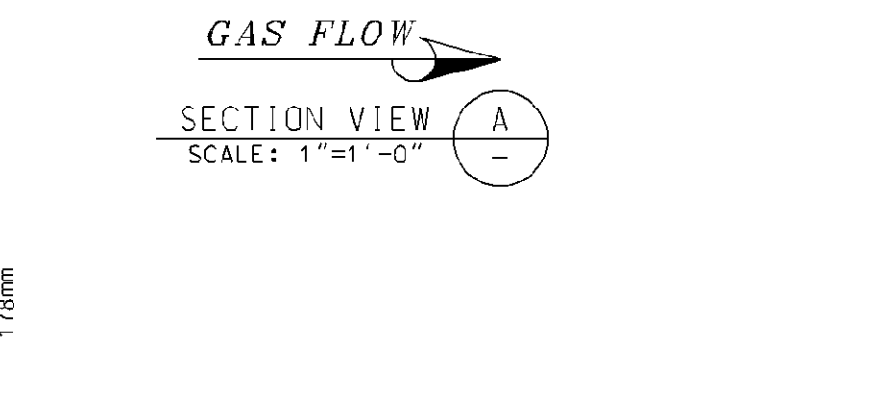
TYP. RETAINER CLIP LOCATION
SCALE: 1"=1'-0"



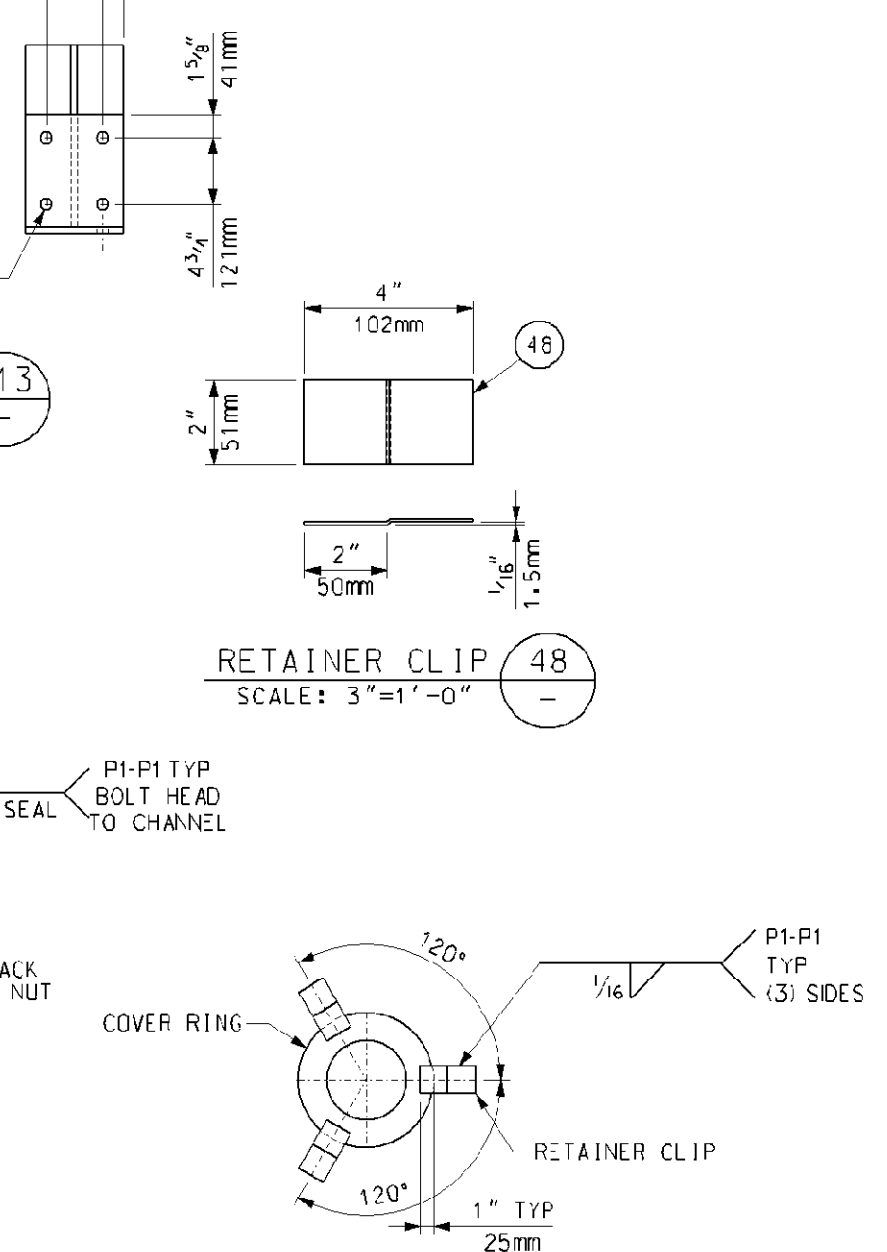
DETAIL VIEW B
SCALE: 1"=1'-0"



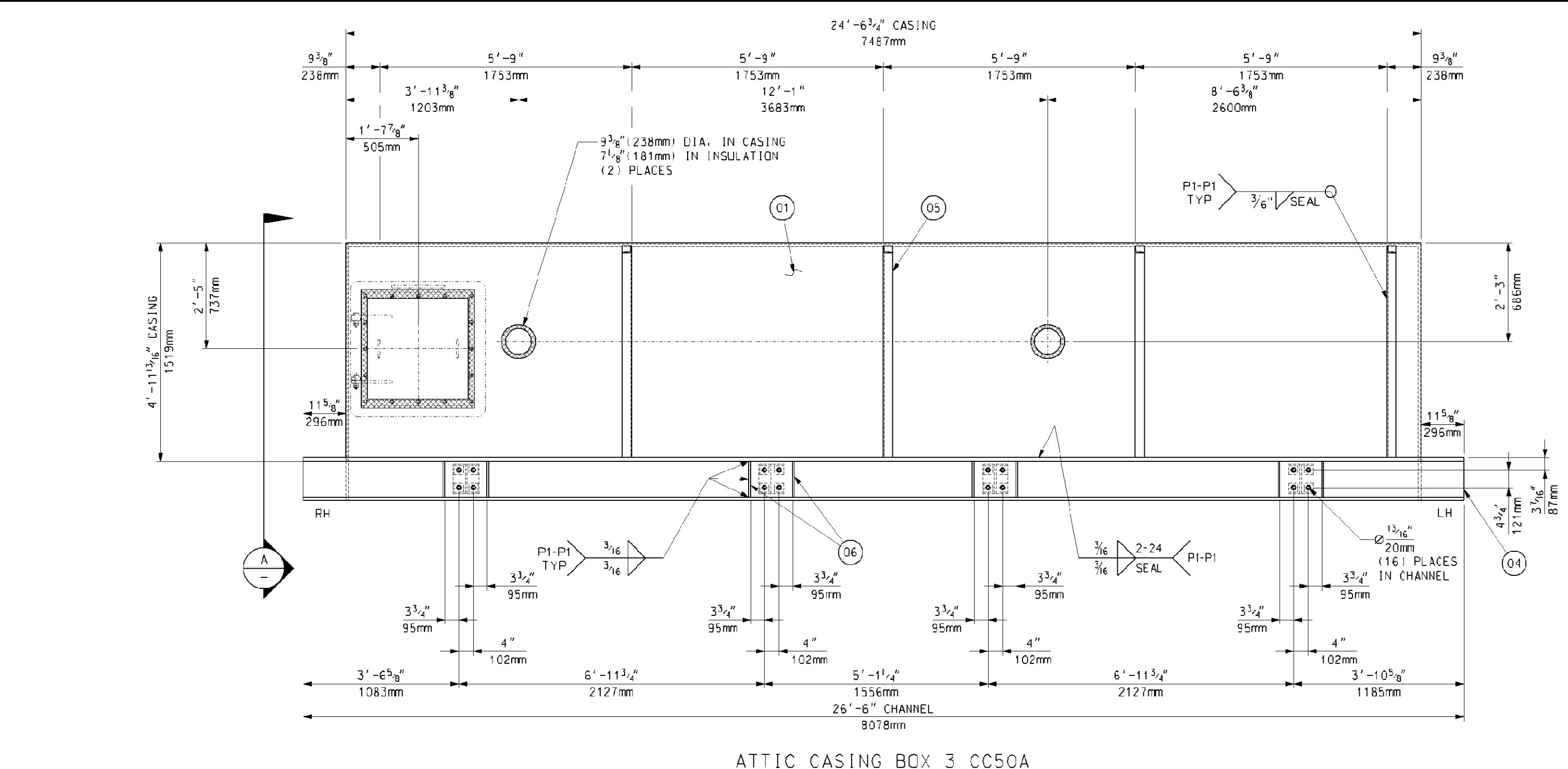
ATTIC CASING BOX 3 CC50A
OUTSIDE ELEVATION



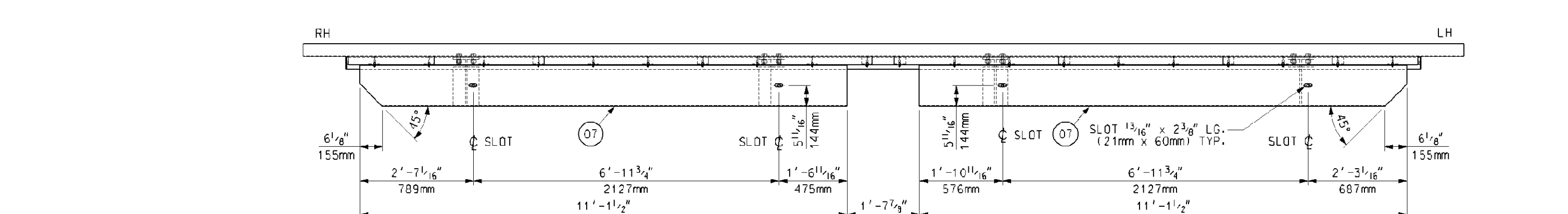
ATTIC CASING BOX 3 CC50
BOTTOM VIEW



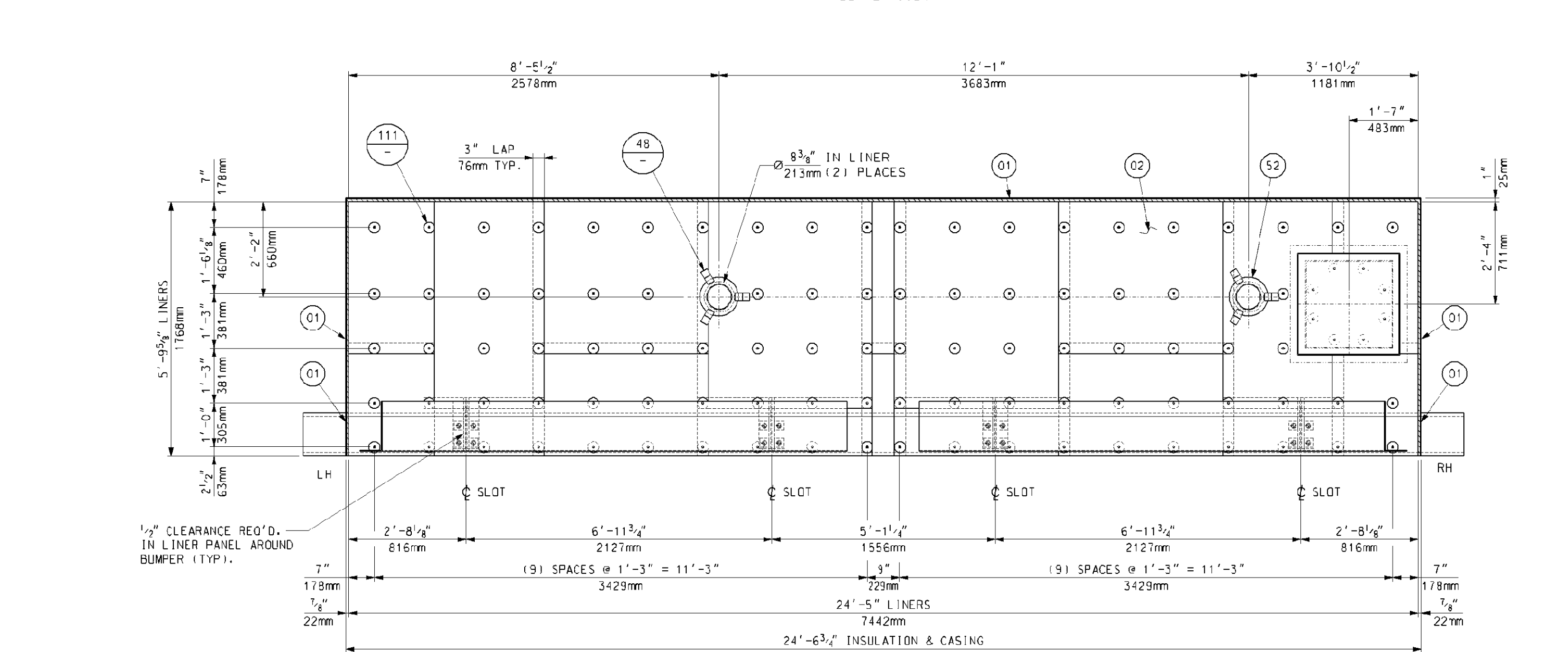
ATTIC CASING BOX 3 CC50A
INSIDE ELEVATION



ATTIC CASING BOX 3 CC50A
OUTSIDE ELEVATION



ATTIC CASING BOX 3 CC50
BOTTOM VIEW



ATTIC CASING BOX 3 CC50A
INSIDE ELEVATION

BILL OF MATERIALS			
PART NO.	QTY.	DESCRIPTION	MAT'L. SPEC.
01	135	SO. FT. OF PLATE, 1/4" THK.	JIS 3101-SS400
02	185	SO. FT. OF SHEET, 1/8" GA. (1.5mm) THK.	A-240 TP409
03	295	SO. FT. OF INSULATION 1" THK. 1800°F 8# DENSITY	CERAMIC FIBER
04	27	LIN. FT. OF CHANNEL, C300x30x9x13	JIS 3101-SS400
05	21	LIN. FT. OF CHANNEL, C125x65x6x8	JIS 3101-SS400
06	27	SO. FT. OF PLATE, 1/2" THK.	JIS 3101-SS400
07	46	SO. FT. OF PLATE, 3/8" THK.	JIS 3101-SS400
10	16	WASHER, 1/2" THK., 2 1/2" SO. x 1 1/8" ID	JIS 3101-SS400
11	4	SO/FT 1/2"(3MM) FIBERFRAX 880 PAPER INSULATION	
30	16	20mm HEX HD. BOLT x 60mm LG.	ISO10.9
31	8	20mm HEX HD. BOLT x 50mm LG.	ISO10.9
32	24	20mm HEAVY HEX NUT	ISO10.9
33	24	20mm FLAT WASHER	ISO10.9
42	94	STUD, 3/8" DIA. x 2 1/2" LG.	A-478 TP304
43	188	HFX NUT, 3/8-16 (RF) HX SRIFTS	F414 TP304
44	188	WASHER, 1/4 GA. (1.2mm) THK. 3" CD x 3/16" ID	A-240 TP409
48	6	SHEET, 16 GA. (1.5mm) 2" x 4" LG.	A-240 TP409
52	2	SHEET, 16 GA. (1.5mm) 10 3/4" CD x 6 3/4" ID	A-240 TP409
111	94	STUD ASSEMBLY	
112	1	ACCESS DOOR ASSEMBLY (DR70)	017424-DRND-011
113	4	BRACKET	

PART NUMBERS ARE TO HAVE PREFIX "CC50" FOR EXAMPLE, "01" WOULD BE "CC5001"

- GENERAL NOTES:
- SEE 017424-MNHC-001 FOR "EQUIPMENT SPECIFICATION FOR SHOP FABRICATED MODULE BOX ASSEMBLIES."
 - ALL WELDING TO BE IN ACCORDANCE WITH LATEST STANDARDS OF AMERICAN WELDING SOCIETY STANDARD D1.1 USING FEXX-T0KSI ELECTRODES.
 - SEAL WELD ALL STRUCTURALS TO CASING AND TO EACH OTHER. ALL PRESSURE CASING TO BE SEAL WELDED GAS TIGHT.
 - ALL STEEL WORK SHALL COMPLY WITH THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL.
 - PROVIDE A 3/8" DIA. DRAIN HOLE IN STRUCTURALS WHERE NECESSARY TO INSURE WATER DRAINAGE DURING SHIPMENT AND AFTER ERECTION.
 - ALL INSULATION TO BE COMPRESSED APPROX. 1/4" PER 1" TO GIVEN THICKNESSES.
 - APPROXIMATE ASSEMBLY WEIGHT: 3,625 LBS. EA.
 - QTY. SHOWN FOR ONE (1) UNIT, ONE (1) UNIT IS REQ'D TOTAL.

- REFERENCE DRAWINGS:
- 017424-DRND-011 - 24" x 24" ACCESS DOOR (DR70) WITH 2" PLUG ASSEMBLY
 - 017424-EBND-102 - STANDARD FABRICATION TOLERANCES FOR ATTIC & BASEMENT PANELS

Rev.	Description	Date	Drawn	Chk'd.	Appr.
5					
4					
3					
2	REVISED MATERIAL PART NO. 43	07/07/06	Saunders	RONC	DP
1	ACCESS DOOR LOCATION CHANGED	06/22/06	Saunders	RONC	DP
0	FIRST ISSUE	06/06/06	Saunders	RONC	LH DP

Revisions

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Florida Municipal Power Agency
Treasure Coast Energy Center, PB1
for TIC / UE
Vogt Power Project 17424

Title
ATTIC PANEL ASSEMBLY
OUTLET BOX 5 (CC50)

Vogt Power International
4000 DuPont Circle
Louisville, Ky. 40207 USA
www.VogtPower.com

Internal Drawing Status	Size	Drawing No.	Rev.
FOR RECORD	D	017424-CCND-006	02

Review does not relieve contractor from responsibility for errors or deviations from contract requirements.

NO EXCEPTIONS NOTED
Release for manufacture

DRAWING LIST

Common

Title	FMPA#	Vendor #
HRSG GA, Right Side Elev.	M012525-SGAA01 R03	017424-GAND-001 R03
HRSG GA, Left Side Elev.	M012525-SGAA02 R03	017424-GAND-002 R03
HRSG GA, Plan View	M012525-SGAA03 R03	017424-GAND-003 R03
Boiler Setting, Right Side Sectional Elev.	M012525-SGAA04 R03	017424-SEND-001 R03
Boiler Setting, Sections "A-A" & "B-B"	M012525-SGAA05 R03	017424-SEND-002 R03
Boiler Setting, Sections "C-C" & "D-D"	M012525-SGAA06 R03	017424-SEND-003 R03
Boiler Setting Plan, Section "E-E"	M012525-SGAA07 R03	017424-SEND-004 R03
Top Riser and Crossover Piping	M012525-SGAM020	017424-MAND-001 R03
Bottom Riser and Crossover Piping	M012525-SGAM022	017424-MAND-010 R01
Module Top Support Assemblies, Shop Installed, Boxes 1 & 2	M012525-SGAM027	017424-MAND-021 R01
Module Box Assembly Typical, Sections and Details	M012525-SGAM034	017424-MAND-042 R00
Field Connections, Field Installed, & Field Adjusted Bellows	M012525-SGAS136 R00	017424-ERND-120 R00
Shop Installed Large Bore Pipe Bellows	M012525-SGAX005 R00	017424-EJNA-001
Shop Installed Small Bore Pipe Bellows	M012525-SGAX006 R00	017424-EJNA-003
Shop Installed Hanger Rod Pipe Bellows	M012525-SGAX007 R00	017424-EJNA-004
Field Installed Large Bore Pipe Bellows	M012525-SGAX009 R01	017424-FI-LB

Module 1

Title	FMPA#	Vendor #
Module Box Assembly, Box 1A, MK'd MA10A	M012525-SGAM028	017424-MAND-030 R00
Module Box Assembly, Box 1B, MK'd MA10B	M012525-SGAM029	017424-MAND-031 R00
Module Box Assembly, Typical Sections and Details	M012525-SGAM031	017424-MAND-033 R01
Bottom Casing - Box 1A&1B	M102525-SGAS006 R1	017424-BCND-001 R01
Bottom Casing Assemblies - Box 1A&1B	M102525-SGAS077 R2	017424-TCND-001 R02
Attic Panel Assembly, Outlet Box 1	M102525-SGAS093 R03	017424-CCND-002 R03

Module 2

Title	FMPA#	Vendor #
Module Box Assembly, Box 2A, MK'd MA20A	M012525-SGAM032	017424-MAND-040 R00
Module Box Assembly, Box 2B, MK'd MA20B	M012525-SGAM033	017424-MAND-041 R00
Module Box Assembly, Typical Sections and Details	M012525-SGAM035	017424-MAND-043 R00
Bottom Casing - Box 2A&2B	MI02525-SGAS007	017424-BCND-002 R00
Top Casing Assemblies - Box 2A&2B	MI02525-SGAS078	017424-TCND-002 R02 017424-CCND-003
Attic Panel Assembly, Inlet Box 2	MI02525-SGAS094	R03 017424-CCND-004
Attic Panel Assembly, Outlet Box 2	MI02525-SGAS095	R02

Module 3

Title	FMPA#	Vendor #
Module Box Assembly, Box 3A, MK'd MA30A	M012525-SGAM036	017424-MAND-050 R00
Module Box Assembly, Box 3B, MK'd MA30B	M012525-SGAM037	017424-MAND-051 R00
Module Box Assembly, Vents and Drains, Boxes 3A & 3B	M012525-SGAM038	017424-MAND-052 R00
Module Box Assembly, Typical Sections and Details	M012525-SGAM040	017424-MAND-054 R00
Bottom Casing - Box 3A&3B	MI02525-SGAS008	017424-BCND-003 R00
Top Casing Assemblies, TC30 (Box 3A&3B)	M012525-SGAS079	017424-TCND-003 R02 017424-CCND-005
Attic Panel Assembly, Inlet Box 3	MI02525-SGAS096	R01

Module 4

Title	FMPA#	Vendor #
Module Box Assembly, Box 4A, MK'd MA40A	M012525-SGAM043	017424-MAND-060 R00
Module Box Assembly, Box 4B, MK'd MA40B	M012525-SGAM044	017424-MAND-061 R00
Module Box Assembly, Typical Sections and Details	M012525-SGAM048	017424-MAND-065 R00
Bottom Casing - Box 4A&4B	MI02525-SGAS009	017424-BCND-004 R00
Top Casing Assemblies, TC40 (Box 4A&4B)	M012525-SGAS080	017424-TCND-004 R01

Module 5

Title	FMPA#	Vendor #
Module Box Assembly, Box 5A, MK'd MA50A	M012525-SGAM052	017424-MAND-070 R00
Module Box Assembly, Box 5B, MK'd MA50B	M012525-SGAM053	017424-MAND-071 R00
Module Box Assembly, Typical Sections and Details	M012525-SGAM056	017424-MAND-074 R00
Bottom Casing - Box 4A&4B	M102525-SGAS0010	017424-BCND-005 R00
Top Casing Assemblies, TC50 (Box 5A&5B)	M012525-SGAS081	017424-TCND-005 R01 017424-CCND-006
Attic Panel Assembly, Outlet Box 5	M102525-SGAS097	R02

APPENDIX B
SAMPLE AGREEMENT

FLORIDA MUNICIPAL POWER AGENCY
TERMS AND CONDITIONS FOR THE PURCHASE OF GOODS AND SERVICES
(Form PO-101AR Rev 3.)

Notice: FMPA's purchase of goods and services from the Supplier is expressly conditioned on Supplier's assent to these Form PO-101AR terms and conditions (the "Terms and Conditions") which are binding on the Supplier. Any acceptance of FMPA's offer to purchase goods and services is expressly limited to acceptance of these Terms and Conditions, and FMPA expressly objects to any additional or different terms and conditions offered by the Supplier. Any order for goods and services fulfilled by the Supplier or the performance of work by Supplier shall constitute the Supplier's assent to these Terms and Conditions. These Terms and Conditions, however, do not apply to FMPA's purchase of engineering and other professional services; such purchase of engineering and other professional services shall be governed by terms and conditions separately set forth and agreed to between FMPA and the Supplier. This notice is a material part of these Terms and Conditions.

1. **Definitions.** As used in these Terms and Conditions, the terms below have the following definitions:

"**FMPA**" means the Florida Municipal Power Agency, a governmental separate legal entity created and existing under Florida Law.

"**Good(s)**" means the materials, supplies, items, and equipment covered by the purchase order and any pre-existing master agreement between FMPA and the Supplier.

"**Goods and Services**" means the Supplier's provisions of Good(s) or Services, or both, individually or together, and the Supplier's performance of the totality of its obligations as set forth in the Purchase Order.

"**Purchase Order**" means purchase order or agreement between FMPA and Supplier for the provision of Goods and Services and includes all exhibits, specifications, attachments, and these Terms and Conditions which are hereby deemed by the parties to be a material and essential part of the Purchase Order.

"**Supplier**" means a vendor, seller, supplier, materialman, outfitter, contractor, or other provider designated in the Purchase Order and includes the Supplier's employees, subcontractors, independent contractors and all other persons performing any type of work, directly or indirectly under the Supplier's direction or control, in contribution to the provision of the Goods and Services subject to the Purchase Order.

"**Services**" means the work to be performed or the services to be provided by the Supplier, or both, as described in the Purchase Order, including any technical description or proposal submitted to or issued by FMPA and related to the Purchase Order.

2. **Applicability.** The Supplier hereby agrees to sell and provide the Good(s) and perform the Services described in the Purchase Order in accordance with these Terms and Conditions and the requirements of the Purchase Order, including any specified scope of work or technical specification included in the Purchase Order.

3. **Acceptance.** The Supplier shall accept the Purchase Order in writing. If Supplier fails to accept the Purchase Order in writing, the Purchase Order and these Terms and Conditions are nonetheless applicable and binding upon the Supplier if the Supplier engages in any conduct which recognizes the existence of a contract pertaining to the subject matter hereof, including, without limitation, the shipment of Goods or commencing the performance of Services, which is deemed by the Supplier to constitute its acceptance of the Purchase Order. Any terms proposed in Supplier's acceptance of FMPA's offer that add to, vary from, or conflict with the Purchase Order and these Terms and Conditions is hereby objected to by FMPA and shall not apply. To the extent that the Purchase order might be treated as an acceptance of Supplier's prior offer, and if any of the terms of the Purchase Order are additional to or different from any terms of such offer, then the issuance of the Purchase Order by FMPA shall constitute an acceptance of such offer subject to the express condition that Supplier assent to these additional and different Terms and Conditions, which in all cases of conflict are controlling, and Supplier shall be deemed to have so assented. Any other preprinted terms and conditions affixed to any Goods or forms provided by the Supplier are hereby acknowledged and agreed to be void and of no effect.

4. **Entire Agreement.** (a) The Purchase Order sets forth the complete and final agreement between the parties with respect to the subject matter hereof, and supersedes any and all prior or contemporaneous oral or written communications relating thereto.

(b) Only if the Purchase Order is used as a release for Goods or Services under a pre-existing master agreement, then

these Terms and Conditions are deemed to supplement the provisions of such master agreement to the extent they are not inconsistent and such master agreement is hereby deemed to be appended to and form a part of the Purchase Order. In the event of any inconsistency between the terms of any pre-existing Master agreement, and these Terms and Conditions and those additionally set forth in the Purchase Order, the following order of precedence is hereby agreed: (1) the terms of the master agreement, (2) the terms on the face of the Purchase Order, and (3) these Terms and Conditions.

(c) Any reference to a proposal, quotation, or other communication given by the Supplier, unless expressly provided for in the Purchase Order to the contrary, is limited only to the description of the Goods or Services and by the terms set forth or incorporated by reference in the Purchase Order.

5. **Prices.** (a) The price(s) set forth in the Purchase Order are firm, and are not subject to increase.

(b) The Supplier represents that the price(s) charged for the Goods and Services covered by the Purchase Order are the lowest prices charged by the Supplier to buyers of a class similar to FMPA under conditions similar to those specified in the Purchase Order and the price(s) comply with the applicable government regulations in effect at the time of quotation, sale, or delivery. The Supplier agrees that any price reduction made in the Goods or Services covered by the Purchase Order within the 12 months subsequent to the placement of the Purchase Order will be applicable to the Purchase Order and FMPA. In such case, the Supplier shall issue a payment to FMPA to credit to FMPA the reduction in price from the price that FMPA has paid. If FMPA has not completed payment for the Goods and Services, the Supplier shall issue to FMPA a credit against future amounts owed under the Purchase Order.

(c) FMPA may require the Supplier to provide a performance and payment bond as an option. The bonds must be priced separately.

6. **Taxes.** FMPA is tax-exempt for most purchases. FMPA's Florida Consumer's Certificate of Exemption Number is 85-8012559814C-2. A copy of this Certificate is available upon request. However, should any federal, state, or local taxes be imposed upon or on account of such sale, the prices for the Goods and Services are hereby deemed to include all such amounts, unless otherwise expressly set forth in the Purchase Order.

7. **Invoices.** (a) All invoices shall be submitted to FMPA in duplicate and shall contain the following information: (1) Purchase Order number; (2) Purchase Order line item number, as applicable; (3) Purchase Order part number, as applicable; (4) part serial number (if serialized); (5) brief description of the Goods and Services that are the subject of the invoice; (6) unit of measure; (7) unit price; (8) item quantity; (9) extended item price; (10) total invoice value; (11) Supplier's contact information and remit-to address; (12) invoice number; (13) date prepared; and (14) payment due date. Each invoice must also be accompanied by the Supplier's waiver, in a form reasonably acceptable to FMPA, of all liens and lien rights associated with amounts set forth in the invoice, conditioned only upon FMPA's payment of such invoice, as required to keep all Good(s) free from liens and claims of lien arising out of the provisions of the Goods and Services.

(b) FMPA may invoice or set off against amounts owed to the Supplier under the Purchase Order, in its discretion, any amounts FMPA determines are owed to FMPA by the Supplier pursuant to the Purchase Order, including these Terms and Conditions.

8. **Payment.** (a) Unless otherwise expressly set forth in the Purchase Order, FMPA shall pay 100% of the uncontested Purchase Order price upon the completion of the provision of all Goods and Services within 30 days after receipt of the Supplier's invoice following the delivery and FMPA's acceptance of the Goods and Services. Payment of an invoice does not constitute acceptance of the Goods and Services and shall be subject to adjustment for errors, shortages, defects in the Goods and Services, damage to FMPA for which Supplier is partially or wholly responsible, or other failure of Supplier to meet the requirements of the Purchase Order, including any of these Terms and Conditions.

(b) If applicable, in addition to Supplier's hourly rate, FMPA shall reimburse Supplier for certain reasonable business related expenses supported by original receipt, which may include reasonable travel expenses, business mileage (paid at no more than the IRS approved rate), postage, copying, and other similar business related expenses. All requests for reimbursement of expenses will be subject to audit and approval by FMPA.

9. **Delivery and Performance.** (a) Time is of the essence, and the Goods must be received or Services performed on the date(s) and at the destination(s) set forth in the Purchase Order. If the Supplier fails to meet any such delivery or performance date, FMPA may, without limiting its other rights and remedies, direct expedited routing, charge excess costs incurred thereby to the Supplier, purchase substitute goods or services elsewhere and charge Supplier for any additional expense incurred, or cancel all or part of the Purchase Order, without further liability of FMPA.

(b) Any Services required to be performed under the Purchase Order will be performed with the skill and care which would be exercised by comparable highly qualified persons performing similar Services and exercising all diligence to perform the Services in a first class manner. If the failure to meet these standards results in deficiencies in the Services, the Supplier shall re- perform such non-conforming Services necessary to correct such deficiencies at no extra cost to FMPA. Such re-performance by the Supplier shall be done in a manner and on a schedule that is established by FMPA.

(c) If applicable, the Supplier shall provide to FMPA upon delivery of Goods all material safety datasheets and other materials reasonably required by FMPA, including without limitations, factory test reports, inspections and certifications documentation, instructions and procedures for operation and maintenance, technical specifications, shipping documentation, and other similar or FMPA-designated materials.

10. Freight; Title and Risk of Loss. (a) Unless otherwise specifically provided for, Supplier shall be responsible for all freight and delivery costs, including unloading costs, to the destination specified in the Purchase Order. All freight and delivery charges will be paid by Supplier. Notwithstanding anything else herein, Supplier shall bear all risks of loss and damage to the Goods until final acceptance by FMPA at the destination specified in the Purchase Order. Further, Supplier shall bear the same risks with respect to any Goods rejected by FMPA or as to which FMPA has revoked its acceptance, from the time of such rejection or revocation.

(b) Risk of loss, title, and ownership of the Goods and Services shall pass to FMPA upon FMPA's acceptance of the Goods and Services meeting the quantity, quality, and other requirements set forth in the Purchase Order, except that nothing prohibits FMPA from revoking such acceptance if subsequently FMPA determines any of the Goods and Services, despite the initial acceptance thereof, did not meet all requirements of the Purchase Order.

11. Inspection and Acceptance. (a) Notwithstanding any prior inspections or payments hereunder, all Goods and Services shall be subject to final inspection, which may include measurement, testing and examination, at FMPA's facility within a reasonable time (but not less than 90 days) after receipt at destination. Any inspection by FMPA does not relieve the Supplier of any obligations or liabilities under the Purchase Order.

(b) If FMPA determines that any Goods and Services delivered or performed do not meet all of the requirements of the Purchase order, FMPA shall have the right to reject such Goods and Services and return such rejected Goods to Supplier at Supplier's expense. FMPA may elect to reject the entire Goods and Services tendered even if only a portion thereof is nonconforming. If FMPA elects to accept nonconforming Goods or Services, FMPA, in addition to its other remedies, shall be entitled to an appropriate reduction in price, as reasonably determined by FMPA based upon the total Purchase Order price. Payment for any Goods or Services shall not be deemed an acceptance thereof. All Goods that fail to meet the requirements of the Purchase Order are subject to Supplier's payment of any "in and out" costs incurred by FMPA due to such failure.

(c) Acceptance of any part or portion of the Goods and Services subject to the Purchase Order does not bind FMPA to accept any future shipments nor deprive FMPA of its right to return nonconforming Goods that were previously accepted.

(d) If Services under the Purchase Order are performed on FMPA property, the Services are deemed to not be complete until all rubbish, trash, debris, and unused material due to or connected with the performance of the Services is removed and the premises are left in a safe, neat, and reasonably clean condition.

12. Warranty. (a) Supplier warrants that all Goods and Services furnished under the Purchase Order are: (1) be free from known, apparent, latent and inherent defects in workmanship, material, manufacture, and design (where design is the Supplier's responsibility); (2) comply with the requirements of the Purchase Order in all respects and any samples and warranties furnished by the Supplier; (3) be merchantable and safe for use, and fit and sufficient for the use intended by FMPA; (4) be free and clear of any lien, security interest, or other adverse claim against title; and (5) not infringe, including without limitation their sale or use alone or in combination, any United States or foreign patents, trademarks, trade secrets, copyrights, or proprietary rights of any third party.

(b) The foregoing warranties are in addition to all other warranties, expressed or implied, and shall survive any delivery, inspection, acceptance, and payment by FMPA.

(c) Supplier's warranties shall be effective for the period of time either (1) as set forth in the Purchase Order expressly, or (2) two years from the date of FMPA's final acceptance, whichever is greater plus an additional two (2) years from any warranty repair with the total period not to exceed four (4) years from the date of FMPA's final acceptance.

(d) If any of the Goods and Services furnished under the Purchase Order do not meet the warranties described in these Terms and Conditions or otherwise, FMPA may, at its option: (1) require the Supplier to correct, at no cost to FMPA, any defective or nonconforming Goods and Services by repair or replacement; or (2) return such defective or nonconforming Goods at the Supplier's expense to the Supplier and recover from the Supplier the price for such defective or nonconforming Goods and FMPA's related costs to determine such defect or nonconformance, for FMPA's return shipping costs to the Supplier, and for FMPA's acquisition and installation of replacement Goods meeting FMPA's requirements; (3) correct the defective or nonconforming Goods and Services itself and charge the Supplier for all costs and expenses incurred by FMPA related to such correction; or (4) accept the defective or nonconforming Goods and Services at a reduced price, as reasonably determined by FMPA based upon the total Purchase Order price. In all cases, for Goods and Services that do not meet the warranties described in these Terms and Conditions or otherwise, the Supplier shall be responsible for the costs of removal and reinstallation. Also, since the Goods and Services may be part of and operating power plant – the timing of repairs will in all cases be at FMPA's convenience.

13. **Changes.** FMPA reserves the right at any time to change the requirements of the Purchase Order and these Terms and Conditions in writing, and if such change causes an increase or decrease in price or delivery of the Goods or Services, an equitable written adjustment shall be made. Any price changes must be agreed to in writing at least 60 days prior to becoming effective. Any such change, modification, change order, or constructive change must be reasonable for the completion of the Services.

14. **License.** To the extent that the Supplier or third parties retain ownership rights in materials delivered with the Goods, or upon which any work product is based, the Supplier hereby grants to FMPA an irrevocable, worldwide, non-exclusive, royalty-free right and license to make, have made, modify, use, distribute, publicly perform or display, sell, offer to sell, and import such materials. Supplier hereby warrants that it owns or has acquired rights in all such intellectual property necessary to grant the licenses and intellectual property rights set forth in this provision.

15. **Liens.** As a governmental legal entity subject to Florida law, FMPA's property (real and personal) is not subject to lien or other security interests. The Supplier hereby acknowledges the foregoing and covenants to not attempt to nor permit the attempt to impose or attach a lien on FMPA's property by the Supplier associated with the Goods and Services purchased by FMPA under the Purchase Order.

16. **Indemnity.** (a) The Supplier shall defend, indemnify, and hold FMPA and its members, officers, directors, employees, agents, successors, and assigns harmless from and against any and all claims, suits, actions, liabilities, losses, costs, reasonable attorneys' fees and costs, expenses, judgments or damages, whether ordinary, special, or consequential arising directly or indirectly from or in connection with (1) the acts, negligence, omissions, or willful misconduct of Supplier; (2) the Goods or Services supplied; (3) a breach of any of Supplier's warranties or any other term or condition of the Purchase Order, including these Terms and Conditions; (4) the Supplier's negligent, unauthorized, or wrongful acts or omissions with regard to the transportation, use, handling, disposal, processing, or installation of hazardous materials; (5) a claim that any of the Goods and Services furnished by the Supplier infringe upon or misappropriate any patent, copyright, trademark, trade secret, or other intellectual property interest of another; (6) a claim of any lien, security interest, or other encumbrance made by a third party that is related to the Purchase Order; and (7) Supplier's violation of federal or state law, regulation, rule, permit, statute, or ordinance.

(b) It is understood and agreed that each party has an affirmative duty to promptly notify the other party in writing of any claims, demands, or suits brought or made against such notifying party with respect to its performance pursuant to the Purchase Order. FMPA may permit the Supplier, in FMPA's discretion, to settle any claim or suite indemnified by the Supplier hereunder, with

the written approval of FMPA and agrees, to the extent permissible by law, that it may permit the complete control of such defense by the Supplier. Any settlement offer negotiated by the Supplier pursuant to this indemnity provision shall, prior to being submitted to an adverse third party, be (1) a *bona fide* offer of settlement that releases with prejudice all claims and liabilities against FMPA, its members, directors, officers, agents, representatives, consultants, independent contractors, and employees, arising out of the claim or suit for which indemnity is sought; (2) made in good faith by the Supplier; (3) discussed, reviewed, and approved in writing by FMPA; and (4) not include any terms or conditions which impose on FMPA, its members, directors, officers, agents, representatives, consultants, independent contractors, and employees any obligation, legal or otherwise, to perform or refrain from any act which would have a legal, financial, or operational impact to FMPA and which would not be reimbursed by the Supplier as part of the proposed settlement.

(c) To the extent permissible by law, and deemed appropriate in the sole discretion of FMPA, FMPA its members, directors, officers, agents, representatives, consultants, independent contractors, and employees shall cooperate fully with the Supplier and its legal representatives in the investigation and defense of any claims or suits covered by this indemnity provision.

17. **Insurance.** (a) If required by FMPA and expressly stated in the Purchase Order, Supplier shall carry and maintain insurance coverage satisfactory to FMPA to cover its obligations in the Purchase Order, including without limitation, the following insurance with the respective minimum limits per occurrence:

- (1) Commercial General Liability - \$2,000,000;
- (2) Workers' Compensation - statutory;
- (3) Business Automobile Liability - \$1,000,000;
- (4) Product Liability Coverage - as set forth in the Purchase Order, if any; and
- (5) Pollution Insurance and Builder's All Risk - as set forth in the Purchase Order, if any.

(b) Supplier shall provide FMPA with a certificate evidencing compliance with the above requirements of subsection (6) and naming FMPA and the other entities specified in the Purchase Order (which in any event shall include the owner or any FMPA joint- owner(s) of the facility for or at which the Supplier is providing the Goods and Services) as an additional insured, except on the worker's compensation policy. Supplier shall provide FMPA with no less than 10 days prior notice of cancellation of any such insurance. At no time shall Supplier be without insurance in the above amounts during any performance related to the Purchase Order, which is deemed to be a material default under these Terms and Conditions.

18. **Termination.** (a) FMPA may, at any time, terminate the Purchase Order, in whole or in part, without cause, upon written notice to the Supplier. Upon any such termination the Supplier shall, to the extent specified by FMPA, stop all work on the Purchase order, and cause its suppliers and subcontractors to stop work. The Supplier's charges for any such termination of the Purchase Order are limited to actual non-recoverable costs incurred by the Supplier that the Supplier can demonstrate were properly incurred prior to the date of termination. In no event shall FMPA be obligated to reimburse Supplier for Good(s), inventory, or Services in excess of those required to meet FMPA's delivery schedule for binding forecasts. In no event shall such reimbursement include anticipated profits or revenue or other economic loss for undelivered Good(s) or unperformed Services.

(b) FMPA may delay the Supplier's performance for any reason upon written notice to the Supplier. If FMPA delays performance for more than three months and either FMPA or the Supplier elects to terminate the Purchase Order because of such delay, the Supplier's sole remedy shall be reimbursement for actual non-recoverable costs incurred by the Supplier that the Supplier can demonstrate were properly incurred prior to the date of termination. In no event will FMPA reimburse Supplier for Good(s), inventory, or Services in excess of those required to meet FMPA's delivery schedule for binding forecasts. In no event shall such reimbursement include anticipated profits or revenue or other economic loss for undelivered Good(s) or unperformed Services.

(c) FMPA may terminate this PO, in whole or in part, if Supplier: (1) is in material default of the Purchase Order; (2) fails to make delivery of the Good(s) or perform the Services within the time specified in the Purchase Order; (3) fails to replace or correct defective Goods and Services in accordance with the provisions of the Purchase Order, including these Terms and Conditions; (4) fails to perform any other provision of the Purchase Order or so fails to make progress as to endanger performance in accordance with its terms; or (5) becomes insolvent, files or has filed against it a petition in bankruptcy, or makes an assignment for the benefit of creditors. In the event of cancellation pursuant to this clause, FMPA may procure similar Goods or Services elsewhere by purchase order or otherwise and the Supplier shall be liable to FMPA for all of its excess costs.

(d) Any such termination shall not relieve the Supplier from any liability under the Purchase Order.

19. **Limitation of FMPA's Liability.** In no event shall FMPA be liable for special, incidental, or consequential damages or lost profits of the Supplier. Any action resulting from any breach on the part of FMPA as to the Good(s) delivered or Services performed under the Purchase Order must be commenced within one (1) year after such breach.

20. **Remedies.** FMPA's remedies are cumulative, and remedies herein specified do not exclude any remedies allowed by law or in equity. Waiver of any breach shall not constitute waiver of any other breach of the same or any other provision.

21. **Compliance with Laws.** Supplier warrants that all Goods and Services will be produced or performed in compliance with all applicable federal, state, and local laws, rules, and regulations, including without limitation:

- (1) the Environmental Protection Agency Toxic Substances Control Act's reporting regulation and any and all pre-manufacturing reporting required with regard to the Good(s), or any of the Good(s)' constituent ingredients, covered by the Purchase Order;

- (2) applicable state hazardous materials regulations in shipping the Good(s) covered by the Purchase Order;
- (3) the Occupational Safety and Health Act of 1970;
- (4) the Resource Conservation and Recovery Act, and the Immigration Reform and Control Act of 1986 (“IRCA”) and the IRCA’s implementing regulations as they pertain to any and all employees employed by Supplier in connection with performance hereunder.

Any provisions required thereby to be included herein shall be deemed to be incorporated by reference.

22. **Governing Law.** The validity and interpretation of the Purchase Order and the rights and obligations of the parties shall be governed and construed in accordance with the laws of the State of Florida without regard for any conflicts of law provisions that might cause the law of other jurisdictions to apply. All controversies, claims, or disputes arising out of or related to the Purchase Order or any agreement, instrument, or document contemplated by the Purchase Order must be brought exclusively in the County or Circuit Court for Leon County, Florida, or the United States District Court sitting in Tallahassee, Florida, as appropriate. The parties consent to and agree to submit to the personal jurisdiction of such courts. Each of the parties hereby waives, and agrees not to assert in any such controversy, claim, or dispute, to the fullest extent permitted by applicable law, any argument or claim that: (1) such party is not personally subject to the jurisdiction of such courts, (2) such party and such party’s property is immune from any legal process issued by such courts, or (3) any litigation or other process commenced in such courts is brought in an inconvenient forum.

23. **Independent Contractor.** In all matters relating to the Purchase Order, the Supplier is and will be deemed to be acting as an independent contractor of FMPA. The Supplier is not an employee, agent, partner, or representative of FMPA. The Supplier shall conduct its business under its own name as an independent contractor, and is hereby expressly prohibited from holding itself out as an employee, agent, partner, or representative of FMPA. It is agreed that any person employed by the Supplier to perform its obligations under the Purchase order is not and will not be deemed to be an employee of FMPA, and Supplier and Supplier’s employees, suppliers, subcontractors, agents, or representatives shall not be, nor represent themselves to be, officers, employees, agents, or representatives of FMPA and shall not bind, nor attempt to bind, FMPA to any agreement, liability, or obligation of any nature. Supplier agrees to pay, and hereby accepts full and exclusive liability for the payment of, any and all contributions and taxes for unemployment compensation or disability insurance or old age pension or annuities, and all similar provisions now or hereafter imposed by any federal or state governmental authority, which are imposed with respect to or measured by wages, salaries, or other compensation paid by the Supplier to persons employed by the Supplier; and the Supplier further agrees to indemnify and save FMPA harmless against any and all such liability or claims thereof.

24. **Force Majeure.** Neither party shall be liable for failure to perform under the Purchase Order if such failure to perform arises out of causes beyond the reasonable control and without the fault or negligence of the non- performing party (“**Force Majeure**”). Such causes may include, but are not limited to, acts of God or public enemy, wars, riots, fires, floods, explosions, epidemics, quarantine restrictions, freight embargoes, water shortages, and unusually severe weather. However, “Force Majeure” SHALL NOT MEAN NOR INCLUDE the negligence, gross negligence, or willful malfeasance of a party or any of its directors, officers, agents, representatives, independent contractors, or employees during the performance of the Purchase Order. This provision shall become effective only if the party failing to perform notifies the other party orally within 24 hours and provides written confirmation within two business days of the extent and nature of the problem, limits delay in performance to that required by the event, and takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the reasonable control of the non-performing party. It is understood and agreed that FMPA shall not be liable to any other party for any damage occasioned by Force Majeure.

25. **Assignability and Subcontracting.** The Purchase Order is binding upon and inures to the benefit of the parties and their respective successors and permitted assigns. Notwithstanding the foregoing, neither the Purchase Order nor any interest in the Purchase Order may be assigned, delegated, or otherwise transferred by the Supplier except upon the prior written consent of FMPA, and any assignment or transfer without such consent shall be void and of no effect. The Supplier shall not appoint any subcontractor or non-employee to carry out its obligations under the Purchase Order without the prior written consent of FMPA. In any event, even with FMPA’s consent, the Supplier shall remain liable for the performance of all such obligations and shall ensure that any permitted subcontractor or non-employee reads and understands the terms of the Purchase Order and that the Goods and Services are provided in accordance with all requirements. FMPA may assign its rights or obligations under the Purchase Order to any FMPA affiliate or successor without Supplier’s consent.

26. **Survivorship.** All provisions, representations, and warranties contained in the Purchase Order, including in these Terms and Conditions, which by their nature are required or intended to be observed or performed after termination or completion of

the Purchase Order are hereby intended by the parties to survive its termination or completion.

27. **Notices.** (a) Each party giving or making any notice, request, demand, or other communication (each, a “notice”) pursuant to this agreement shall give the notice in writing, unless otherwise expressly permitted in this agreement, and shall use one of the following methods of delivery, each of which for purposes of this agreement is a writing: (1) personal delivery; (2) registered or certified mail, in each case, return receipt requested and postage prepaid; (3) nationally recognized overnight courier, with all fees prepaid; (4) electronic mail with electronic confirmation of the addressee opening the electronic mail (*i.e.*, read receipt) or (5) facsimile.

(b) Each party giving a notice shall address the notice to the appropriate person at the receiving party (the “Addressee”) at the address listed below or to another Addressee or at another address designated by a party in a notice pursuant to this section 27:

If to FMPA: Florida Municipal Power Agency
8553 Commodity Circle
Orlando, Florida 32819-9002
Attention: Chief Operating Officer
Facsimile No.: (407) 355-5794
Email: ken.rutter@fmpa.com
david.schumann@fmpa.com
Telephone No. (for verification purposes only): (407) 355-7767

With a required copy to: Florida Municipal Power Agency
Office of the General Counsel
2061-2 Delta Way (32303-4240)
Post Office Box 3209
Tallahassee, Florida 32315-3209
Attention: Purchase Order Terms and Conditions
Facsimile No.: (850) 297-2014
Email: jody.lamar.finklea@fmpa.com
Telephone No. (for verification purposes only): (850) 297-2011

If to the Supplier: As provided in the Purchase order.

(c) Except as provided else-where in this agreement, a notice is effective only if the party giving or making the notice has complied with subsections (a) and (b) and if the Addressee has received the notice. A notice is deemed to have been received as follows:

- (1) If a notice is delivered in person, or sent by registered or certified mail, or nationally recognized overnight courier, upon receipt as indicated by the date on the signed receipt.
- (2) If a notice is sent by facsimile, upon receipt by the party giving or making the notice of an acknowledgment or transmission report generated by the machine from which the facsimile was sent indicating that the facsimile was sent in its entirety to the Addressee’s facsimile number.
- (3) If the Addressee rejects or otherwise refuses to accept the notice, or if the notice cannot be delivered because of a change of address for which no notice was given, then upon the rejection, refusal, or inability to deliver.
- (4) Despite the other clauses in this subsection (c), if any notice is received after 5:00 p.m. on a business day where the Addressee is located, or on a day that is not a business day where the addressee is located, then the notice is deemed received at 9:00 a.m. on the next business day where the Addressee is located.

28. **Public Records.** All documents submitted and received by FMPA may become public records and FMPA shall treat them as subject to the Florida Public Records Law, including chapter 119, Florida Statutes.

29. **Enforcement.** In the event that either party is required to enforce the Purchase Order by court proceedings or otherwise, the prevailing party shall be entitled to recover all fees and costs incurred, including reasonable attorney's fees and costs, for cost of investigation, trial, alternative dispute resolution, cost of settlement, and/or appellate proceedings.

30. **Interpretation.** Each reference to the Purchase Order in these Terms and Conditions always includes these Terms and Conditions as a material part of the Purchase Order, whether or not the language "including these Terms and Conditions" or similar language is provided.

31. **General Provisions.** (a) In the event that any of the terms, covenants or conditions of the Purchase Order, or the application of any such term, covenant or condition, shall be held invalid as to any person or circumstance by any court having jurisdiction under the circumstances, the remainder of the Purchase Order and the application of its terms, covenants or conditions to such persons or circumstances shall not be affected by that invalidity.

(b) Except as provided in section 13, no amendment to the Purchase Order is valid unless mutually agreed and signed by both parties.

(c) The Purchase Order reflects the negotiated agreement of the parties. Accordingly, the Purchase Order, including these Terms and Conditions, is to be construed as if both parties jointly prepared it, and no presumption shall be made as to whether one party or the other prepared the Purchase Order for purposes of interpreting or construing any of the provisions of the Purchase Order or otherwise.

(d) The headings provided in the Purchase Order, including these Terms and Conditions, are for convenience only and do not affect its meaning.

(e) The Purchase Order may be executed in counterparts, each of which is deemed to be an original, but all of which together shall constitute one and the same instrument.

CONTRACTOR _____

FLORIDA MUNICIPAL POWER AGENCY

Signature: _____

Signature: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

APPENDIX C
BID FORMS

**PROPOSAL TO FURNISH AND DELIVER
TCEC HRSG PENETRATION SEALS
FOR THE FLORIDA MUNICIPAL POWER AGENCY**

I have carefully examined the RFP, Terms and Conditions, Technical Specifications, Bid Forms, and any other documents accompanying or made a part of this RFP. With full knowledge and understanding of the aforesaid, I agree to abide by all conditions of this bid.

I hereby propose to furnish the materials/services specified in the RFP at the prices quoted in my proposal as indicated in the appropriate spaces on this and the attached sheets BF-2 and BF-3.

I certify that I am duly authorized to submit this proposal; on behalf of the vendor and that the vendor is ready, willing and able to perform if awarded the bid.

Prices quoted shall remain firm and irrevocable for duration of project.

ADDENDA. The undersigned bidder acknowledges receipt of the following addenda, which have been considered in preparing this proposal (if applicable).

Number _____ Dated _____
Number _____ Dated _____

Respectfully submitted:

Company Name: _____

Signature: _____

(Authorized Representative)

(Type or Print Name of Signer)

Address: _____

E-Mail Address: _____

Telephone Number: _____

Toll Free Number: _____

Date: _____

This is a required form; please complete and include it in your submittal.

**BID FORM
TCEC HRSG PENETRATION SEALS**

BID FORM

Provide a Lump Sum Total Price to furnish and deliver a turn-key solution for **MODULE 1**, as described in the scope of work. Pricing must include materials & work as described in Appendix A Scope of Work, Section 6.1.

TOTAL PRICE _____

Please also provide the cost breakdown on a separate sheet (clearly marked) as requested in Scope of Work, Section 6.1.

Alternate options may be considered as budgeting allows.

ALTERNATE OPTION

Provide a Lump Sum Total Price to furnish and deliver a turn-key solution for **MODULE 2**, as described in the scope of work. Pricing must include materials & work as described in Appendix A Scope of Work, Section 6.2.

TOTAL PRICE _____

Please also provide the cost breakdown on a separate sheet (clearly marked)

ALTERNATE OPTION

Provide a Lump Sum Total Price to furnish and deliver a turn-key solution for **MODULE 3**, as described in the scope of work. Pricing must include materials & work as described in Appendix A Scope of Work, Section 6.2.

TOTAL PRICE _____

Please also provide the cost breakdown on a separate sheet (clearly marked)

This is a required form; please complete and include it in your submittal.

ALTERNATE OPTION
<p>Provide a <u>Lump Sum Total Price</u> to furnish and deliver a turn-key solution for MODULE 4, as described in the scope of work. Pricing must include materials & work as described in Appendix A Scope of Work, Section 6.2.</p> <p style="text-align: center;">TOTAL PRICE _____</p> <p style="text-align: center;">Please also provide the cost breakdown on a separate sheet (clearly marked)</p>

ALTERNATE OPTION
<p>Provide a <u>Lump Sum Total Price</u> to furnish and deliver a turn-key solution for MODULE 5, as described in the scope of work. Pricing must include materials & work as described in Appendix A Scope of Work, Section 6.2.</p> <p style="text-align: center;">TOTAL PRICE _____</p> <p style="text-align: center;">Please also provide the cost breakdown on a separate sheet (clearly marked)</p>

Cost Savings Alternative: Provide your discount percentage (or dollar amount reduction) if awarded all modules, as described in Appendix A Scope of Work, Section 6.3.

Please also provide a time & materials rate for the project.
T&M Rates
Please include a T&M Rate Sheet for all work offered by your company.

This is a required form; please complete and include it in your submittal.

**FMPA RFP 2026-206a
Intent-to-Bid Form**

Form Due Date: June 19, 2026

If you intend to submit a response to this Request for Proposal, we ask that you complete this form as soon as possible and e-mail it to sharon.samuels@fmpa.com. You may also mail a copy of this form to the following address:

Sharon Samuels
Florida Municipal Power Agency
8553 Commodity Circle
Orlando, Florida 32819

If you identify yourself as a potential respondent, FMPA will be able to notify you of any RFP changes or revisions and forward to you any addenda to the RFP.

Please note:

Filing an Intent-to-Bid form is voluntary: It is NOT required by FMPA in order for you to submit a response.

Filing an Intent-to-Bid form does not commit you to responding.

Filing an Intent-to-Bid form is **required** if you submit specific questions concerning this RFP.

----- Intent-to-Bid -----

RFP 2026-206a – TCEC HRSG Penetration Seals

Name of Company:

Address:

Name of Contact Person:

E-Mail Address:

Phone:

DISPUTE DISCLOSURE

Answer the following questions by placing an "X" in the appropriate "YES" or "NO" box. If you answer "YES", please explain in the space provided, or via attachment.

Has your firm, or any of its officers, received a reprimand of any nature or been suspended by the Department of Professional Regulation or any other regulatory agency or professional association within the last five (5) years?

YES NO

Has your firm, or any member of your firm, been declared in default, terminated or removed from a contract or job related to the services your firm provides in the regular course of business within the last five (5) years?

YES NO

Has your firm had filed against it or filed any requests for equitable adjustment, contract claims or litigation in the past five (5) years that is related to the services your firm provides in the regular course of business?

YES NO

If yes, state the nature of the request for equitable adjustment, contract claim or litigation, a brief description of the case, the outcome or status of suit and the monetary amounts or extended contract time involved.

I hereby certify that all statements made are true and agree and understand that any misstatement or misrepresentation or falsification of facts shall be cause for forfeiture of rights for further consideration of this project:

Project: FMPA RFP# 2026-206a

Firm

Date

Authorized Signature

Officer Title

Printed or Typed Name

This is a required form; please complete and include it in your submittal.

AFFIDAVIT OF COMPLIANCE
FMPA RFP 2026-206a

_____ We DO NOT take exception to any items included in the RFP.

_____ We TAKE exception as follows:

Company Name:

By:

(Authorized Person's Signature)

(Print or type name and title of signer)

Company Address:

Telephone Number:

Toll Free Number:

Fax Number:

Date:

This is a required form; please complete and include it in your submittal.

HUMAN TRAFFICKING AFFIDAVIT

Pursuant to Section 787.06 Subsection (13), FLORIDA STATUTES, all bidders should be aware:

“When a contract is executed, renewed, or extended between a nongovernmental entity and a governmental entity, the nongovernmental entity must provide the governmental entity with an affidavit signed by an officer or a representative of the nongovernmental entity under penalty of perjury attesting that the nongovernmental entity does not use coercion for labor or services as defined in this section.

_____ (Company) does not use coercion for labor or services, as those terms are defined in Florida Statute 787.06.

Company Name:

By:

(Authorized Person’s Signature)

(Print or type name and title of signer)

Company Address: _____

Telephone Number: _____

Date: _____

This is a required form; please complete and include it in your submittal.

DRUG-FREE WORKPLACE COMPLIANCE FORM

Preference shall be given to businesses with drug-free workplace programs. Pursuant to Section 287.087, Florida Statutes, whenever two or more proposals which are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a proposal received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process.

The undersigned proposer in conformity with Florida Statute 287.087 hereby certifies that _____ does:

(Name of business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under proposal a copy of the statement specified in Subsection 1.
4. In the statement specified in Subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that the undersigned complies fully with the above requirements.

Signature

Name of Proposer

Date

STATEMENT OF NO PROPOSAL

Sharon Samuels
Florida Municipal Power Agency
8553 Commodity Circle
Orlando, FL 32819

We, the undersigned, have declined to submit a proposal on your Request for Proposals Number 2026-206a, Florida Municipal Power Agency, TCEC HRSG Penetration Seals - for the following reasons:

- We do not offer this service/product.
- Our schedule would not permit us to perform.
- Unable to meet specifications.
- Unable to meet bond requirements.
- Other

We understand that if the Statement of No Proposal letter is not executed and returned, our name may be deleted from the list of qualified proposers of the Florida Municipal Power Agency.

Company Name: _____

By: _____
(Authorized Person's Signature)

(Print or type name and title of signer)

Company Address: _____

Telephone Number: _____

Toll Free Number: _____

Fax Number: _____

Date: _____



Thanks for your interest in servicing FMPPA.