



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37379

May 9, 1996

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of)	Docket Nos. 50-327
Tennessee Valley Authority)	50-328

SEQUOYAH NUCLEAR PLANT (SQN) - ADDITIONAL INFORMATION FOR SECOND
10-YEAR INTERVAL - INSERVICE INSPECTION (ISI) PROGRAM PLAN

Reference: NRC letter to TVA dated February 14, 1996, "Request for Additional
Information - Second 10-Year Interval Inservice Inspection Program Plan -
Sequoyah Nuclear Plant Units 1 and 2 (TAC Nos. M94115 and M94116)"

Enclosed is the TVA response to NRC's request for additional information (Section 2
of the enclosure to the above reference) concerning SQN's ISI program plan for the
second 10-year interval. TVA's responses reflect the information that was discussed
with the NRC staff and Idaho National Engineering Laboratory staff during two
telephone conversations held on March 4 and March 18, 1996.

Please note that TVA is providing two additional relief requests in response to Item 2.1
of the referenced letter. These additional relief requests were identified during a
review of industry practices concerning inservice pressure test programs.

Please direct questions concerning this issue to D. V. Goodin at (423) 843-7734.

Sincerely,

R. H. Shell

R. H. Shell
Manager
SQN Site Licensing

Enclosure
cc: See page 2

150035

9605150263 960509
PDR ADOCK 05000327
G PDR

19047 2/1

U.S. Nuclear Regulatory Commission
Page 2
May 9, 1996

cc (Enclosure):

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U.S. Nuclear Regulatory Commission
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ENCLOSURE

SEQUOYAH NUCLEAR PLANT

UNITS 1 AND 2

RESPONSE TO NRC REQUEST

FOR ADDITIONAL INFORMATION

SECOND 10-YEAR INTERVAL

INSERVICE INSPECTION (ISI) PROGRAM PLAN

- 2.a Provide isometric and/or component drawings showing the Code Class 1 and 2 piping welds, components, and supports that Section XI of the American Society of Mechanical Engineers (ASME) code requires to be examined during the second 10-year inspection interval. The requested items will permit the staff to determine if the extent of ISI examinations meets the applicable code requirements.**

Sequoyah Units 1 and 2 Code Class 1 and 2 piping welds, components, and supports isometric/component drawings are being provided as requested. These drawings are provided as Attachment 2.a.

- 2.b Provide a list of the ultrasonic calibration standards being used during the second 10-year ISI interval. This list should include the calibration standard identifications, material specifications, sizes, and any variance from code requirements.**

A list of the calibration standards that have been identified for use in the second interval is provided as Attachment 2.b. No variations from code compliance have been identified with any of the calibration blocks. Compliance to code requirements are verified for each specific use as part of the examination plan approval prior to each refueling outage.

- 2.c Clarify the statement in Section 1.3 of Attachment 2 that the "Certification of NDE personnel shall be in accordance with the 1984 Edition of ASNT SNT-TC-1A." Does this include ultrasonic examination personnel? Is Appendix VII of the 1989 Edition of ASME Section XI being used for qualification of personnel performing ultrasonic examinations? If not, submit a request for relief that includes your basis for not meeting the requirements of Appendix VII.**

SQL's ISI Program, O-SI-DXI-000-114.2, Section 1.3 of Attachment 2 is being revised to include Appendix VII of the 1989 Edition of ASME Section XI for the qualification of personnel performing ultrasonic examination. The proposed wording for this revision is :

"Certification of NDE personnel shall be in accordance with the 1984 Edition of ASNT SNT-TC-1A. Additional training and qualification requirements for certification of the ultrasonic examination personnel shall be in accordance with Appendix VII of the 1989 Edition of ASME Section XI."

- 2.d Prepare a request for relief for each code case not referenced in Regulatory Guide 1.147 that is to be used. (Section 1.3 of Attachment 2 adopts Code Cases N-198-1, N-494-2, N-509, N-521, and N-524 for use at SQL. As noted in this section, these code cases have not been approved for use by the NRC.) Appendix A, "Inservice Inspection: Guidance for preparing Requests for Relief from Certain Code Requirements Pursuant to 10 CFR 50.55a(g)(5)," is attached for your use as a guide for preparing requests for relief.**

SQL has elected to withdraw the request for NRC's approval of the referenced code cases. SQL has no immediate plans to utilize Code Cases N-198-1 and N-494-2. If in the future a need should arise, SQL would request permission to use them at that time and prepare a request for relief.

SQN proposes to utilize Code Cases N-509, N-521, and N-524 during SQN's first inspection period. These code cases have been approved by the ASME Main Committee and are pending NRC authorization for use in Regulatory Guide (RG) 1.147. TVA has evaluated the use of these code cases during the first period of SQN's second 10-year ISI interval. Based upon this evaluation, TVA finds that the use of these code cases provides a substantial cost savings and would not compromise structural integrity for SQN's Class 1, 2 and 3 components for the first period. Following completion of SQN's first inspection period within the second 10-year ISI interval, TVA plans to submit a request for relief should these code cases be withdrawn from publication within RG 1.147.

- 2.e Confirm that a request for relief would be submitted if "essentially 100%" of a required examination volume or area cannot be examined. [Section 7.1(D) of Attachment 2 of the licensee's program plan states "When less than the required ASME Section XI code examination volume or area is examined, the percentage examined shall be documented on the examination data sheet. The cause of the limitation shall be clearly specified as part of the data sheet documented. Areas that are inaccessible or partially inaccessible shall be handled in accordance with SSP-6.10."]**

The intent of this section was how to handle instances when coverage of the entire required code examination volume or area (essentially 100%) was impractical. Where less than the code required coverage was achieved, a relief request would be prepared in accordance with Site Standard Practice 6.10, Section 10.0.

SQN's ISI Program, O-SI-DXI-000-114.2, Section 7.1.D is being revised to clarify when a request for relief would be required. The proposed wording for this revision is:

"When less than the required ASME Section XI Code examination volume or area is examined, the percentage examined shall be documented on the examination data sheet.

The cause of the limitation shall be clearly specified as a part of the data sheet documentation. The examination with less than the required ASME Section XI Code examination volume or area shall be handled as a request for relief in accordance with SSP-6.10."

- 2.f Confirm that SQN plans to select Examination Category B-J welds for examination during the second 10-year interval in compliance with the requirements of IVB-2420(a). If not, provide a request for relief that includes the basis for not meeting the subject requirements. [Based on Section 7.2(A)(6) of Attachment 2, it appears that a different population of Examination Category B-J welds will be examined during the second 10-year interval than was examined during the first 10-year interval. ASME Section XI, Paragraph IWB-2420(a) requires component examinations performed during the first interval be repeated during successive inspection intervals.]**

SNQ plans to select Examination Category B-J welds in accordance with the 1974 Edition Summer 1975 Addenda as allowed by 10 CFR 50.55a(b)(2)(ii), due to the design vintage of SNQ. This will be a different population of Examination Category B-J welds than was examined in the first inspection interval.

Reference: SNQ Safety Evaluation Reports, Unit 1 dated February 7, 1991, and Unit 2 dated April 19, 1990, "Technical Evaluation Reports for Requests for Relief ISI-3 and ISI-7"

2.g Considering the safety significance of the Residual Heat Removal, Emergency Core Cooling, and Containment Spray systems, describe any plans for volumetric examination of a sample of thin-wall Code Class 2 piping welds to assure the continued integrity of the subject systems. [The Residual Heat Removal, Emergency Core Cooling, and Containment Spray systems are critical to the safe shutdown of the plant. It has been recognized that current code examination requirements exclude selection of thin-wall piping welds (less than 3/8 inch) in the subject systems. As a result, flaws in thin-wall piping would not be detected until through-wall leakage occurs. In Section 7.2(B)(5) & (6) of the licensee's program plan, it has been noted that Class 2 welds less than 3/8 inch are included in the total Class 2 piping weld population, but are excluded from examinations. The staff believes that it is technically prudent to perform augmented volumetric examination of thin-wall piping.]

SNQ's ISI Program, Section 7.2.B (5) and (6) was written in accordance with the requirements of Table IWC-2500-1, Examination Category C-F-1, Pressure Retaining Welds in Austenitic Stainless Steel or High Alloy Piping and C-F-2, Pressure Retaining Welds in Carbon or Low Alloy Steel Piping. The Residual Heat Removal, Emergency Core Cooling, and Containment Spray systems are included in Examination Category C-F-1 only. Examination Category C-F-1, Item Number C5.10 does not require the examination of piping greater than 4 inches nominal piping size (NPS) with less than 3/8-inch wall thickness. However these welds are included in the total population, and the 7.5 percent of the total welds to be examined are distributed over the nonexcluded piping.

The exemption of piping greater than 4 inches NPS with less than 3/8-inch wall thickness was first incorporated in the Winter 1983 Addenda. The requirement prior to this was a surface examination for piping greater than 4 inches NPS with a wall thickness less than or equal to 1/2 inch. There has never been a volumetric examination requirement on these excluded welds. This piping would be subject to a visual examination (VT)-2 each period in accordance with Examination Category C-H of the 1989 Edition of ASME Section XI.

A review of licensee event reports and the Nuclear Plant Reliability Data System did not identify any problems with large diameter, thin wall, piping welds.

The following is a summary of the review of Examination Category C-F-1 for SQN:

The following systems within Examination Category C-F-1 are included in SQN's second interval program: Containment Spray, Chemical Volume Control, Residual Heat Removal, and Safety Injection.

Each system includes welds required to be examined in accordance with Examination Category C-F-1. The following is a synopsis of Unit 2 by system and the percentages of welds to be examined:

SYSTEM	TOTAL C-F-1 WELDS PER SYSTEM	TOTAL EXCLUDED WELDS PER SYSTEM	PERCENT OF EXCLUDED WELDS PER SYSTEM	NUMBER OF WELDS BEING EXAMINED PER SYSTEM	PERCENT OF SYSTEM WELDS BEING EXAMINED
Containment Spray	170	39	23%	15	8.8%
Chemical Volume Control	567	89	16%	44	7.8%
Residual Heat Removal	348	120	35%	29	8.3%
Safety Injection	811	160	20%	64	7.9%
Total C-F-1	1896	408	22%	152	8.0%

The welds being selected for examination during the second interval have been prorated to the degree practical over each system per the requirements of Examination Category C-F-1. As shown in the table above, each system will have an increased percentage of welds examined. Part of the suction and discharge lines in each system are to be examined. None of the systems were entirely excluded and each system has a representative number of welds to be examined.

Based on this review, there is a representative sample of welds to be examined in each system included in Examination Category C-F-1. In addition, these piping welds will be scheduled for a VT-2 examination each period in accordance with Examination Category C-H requirements. No industry problems have been identified with these Examination Category C-F-1 piping welds. SQN does not plan to perform augmented examinations on Examination Category C-F-1, large diameter, thin wall, excluded piping welds. The representative sample of C-F-1 welds to be examined in each system and the VT-2 examination performed each period provide an acceptable level of safety and quality.

As requested, a set of flow diagrams and isometrics for Unit 2 is provided to show the piping within the boundaries for Examination Category C-F-1. The drawings are color coded to identify the various requirements and exemptions from examination and are contained in Attachment 2.g.

- 2.h Clarify how Class 1 supports are selected for examination at SQN. Based on Section 8.4 of Attachment 1 to Attachment 2 of the program plan, it appears that the licensee is selecting 25 percent of the supports associated with areas selected as part of the 25 percent selection requirements of Examination Category B-J. Code Case N-491 requires 25 percent of all nonexempt Class 1 supports be selected for examination. Is it the licensee's intention not to meet the selection requirements for supports as contained in IWF of the 1989 Edition of Section XI or in Code Case N-491? If so, a request for relief for alternate selection criteria for Class 1 piping supports is required.**

SQN has selected 25 percent of the supports for examination within the ASME Code Class 1 boundary (reactor coolant pressure boundary) and not just the 25 percent population of Examination Category B-J welds selected for examination during this inspection interval. SQN will revise Section 8.4 of Attachment 1 to state 25 percent of Class 1 supports shall be visually examined during the inspection interval in accordance with the visual examination method VT-3.

SQN's ISI Program, 0-SI-DXI-000-114.2, Section 8.4 currently states:

"Twenty five percent of the piping and valve component supports of piping required to be examined by Examination Category B-J shall be visually examined during the inspection interval in accordance with visual examination method VT-3. This examination includes integrally welded component supports. Component supports extend from the piping and valves up to and including the attachment to the supporting structure."

The proposed revision to Section 8.4 is:

"Twenty five percent of the Class 1 piping and valve component supports* associated with Examination Category B-J piping shall be visually examined during the inspection interval in accordance with the visual examination method VT-3. This examination includes integrally welded component supports. Component supports extend from the piping and valves up to and including the attachment to the supporting structure.

*NOTE: Piping supports to be examined shall be the supports not exempted under IWB-1220."

- 2.i. Provide a detailed sketch of the examination areas for Request for Relief 1-ISI-2 and 2-ISI-2, including all limitations and coverage plots. These relief requests describe lifting lug and weld taper limitations to examining the reactor vessel closure head-to-flange weld. Will a partial examination be performed from the flange face?**

The design configuration of the closure head precludes full ultrasonic examination of the reactor pressure vessel (RPV) closure head-to-flange weld (W08-09). Examination of the closure head-to-flange weld is obstructed by the tapered portion of the flange. The design configuration allows for ultrasonic examination of approximately

50 percent of the required examination volume. The ASME Section XI code requirements for reflectors oriented parallel to the weld stipulate that the angle beam search units shall be aimed at right angles to the weld axis, with the search unit manipulated so that the ultrasonic beams pass throughout the entire volume of weld metal. The subject weld configuration limits bi-directional coverage from the flange side due to the adjacent flange junction. This junction restricts the search unit scan surface.

SQN does not plan to perform a UT examination from the flange face because the examination would not provide meaningful results, as stated below:

- The geometric configuration of the flange to head weld is not amenable for ultrasonic examination from the flange face. This is due to the geometric curvature of the head and the extensive metal path distance required to interrogate the required weld volume.

The flange face contains two o-ring grooves (0.6 inch) in width around the circumference and contains 12 recessed locations for o-ring clips, which limit complete scan coverage from the flange face.

- The flange face and head are highly radioactive. Examination from the flange face would result in considerable personnel radiation exposure. Radiation levels at the flange area are estimated to be .5 roentgen equivalent man (rem) per hour. Total dose estimate for performing a zero degree from the flange face is estimated to be 1.2 rem, which is in addition to the exposure for performing the examination from the outside diameter of the weld surface. Localized shielding would be of no value due to the close contact necessary for manually scanning the flange surface.
- Previous examination results from the first interval have not revealed inservice related flaws.
- No industry events have identified flaw initiation in RPV head to flange welds.

The enclosed drawings/sketches depict details regarding the examination coverage of weld W08-09.

- Drawings CHM-2358-C-01 (Unit 1) and ISI-0301-C-01 (Unit 2) provide a general layout of the reactor vessel closure head weld locations and identifiers.
- Sketch 1 provides a detailed sketch of weld W08-09 and the associated details regarding component dimensions.
- Sketch 2 provides the ASME Section XI required examination coverage.
- Sketch 3 provides coverage plot details regarding the limitations associated with the flange taper and flange junction for the 45-degree search unit.

- Sketch 4 provides coverage plot details regarding the limitations associated with the flange taper and flange junction for the 60-degree search unit.
- Sketch 5 provides coverage plot details regarding scan limitations associated with performing an examination with a zero degree search unit from the flange face.

Based on the 100 percent surface examination and the 50 percent volumetric examinations that are achievable on the reactor pressure vessel flange to head weld, it is concluded that significant degradation, if present, would be detected. As a result, an acceptable level of quality and safety would be provided. Accordingly, SQN's proposed relief request remains unchanged.

2.j Provide a listing of the integrally welded attachments that will not be examined as a result of Request for Relief 1-ISI-3 and 2-ISI-3, which seek to use the exemptions for Auxiliary Feedwater Systems granted by later editions of Section XI.

This request was to use only the NPS 1 inch and smaller exemption on Auxiliary Feedwater system.

SQN believes this is an unnecessary burden to require the determination of the integrally welded attachments on NPS 1 inch and smaller piping in the Class 3 Auxiliary Feedwater system. For the Class 1 and 2 systems in the 1989 Edition of ASME Section XI, there are no requirements to examine integrally welded attachments on piping NPS 1 inch and smaller. Prior to the Winter 1980 Addenda, there was no requirement to examine Class 3 NPS 1 inch and smaller Auxiliary Feedwater system piping integrally welded attachments. The later 1991 Addenda IWD-1220 incorporated the NPS 1 inch and smaller exemption to provide clarification on the exemptions. To provide this listing would require reviewing NPS 1 inch and smaller piping and tubing on vent lines, drain lines, instrumentation lines, and sampling lines up to the first isolation valve or the instrument panel isolation valve. On a preliminary review, there is approximately 50 lines (piping runs) on each unit and the review to determine the integrally welded attachments would seem to be an unnecessary burden on the utility since they are exempted in the 1991 Addenda and later codes.

Proposed revisions to 1-ISI-3 and 2-ISI-3 are provided in Attachment 2.j.

2 k Using the 1989 Edition of Section XI, reevaluate the need for Request for Relief ISPT-05, which requests relief from table IWB-2500-1 Examination Category B-P, Footnote 1 quoted from the Summer 1978 Addenda to Section XI. The licensee has committed to following the 1989 Edition of Section XI. Is this an oversight? If relief is deemed necessary, resubmit this relief request and include a technical discussion that explains how the proposed alternative provides an adequate level of quality and safety.

The reference to Footnote 1 was an oversight. ISPT-05 is the same as a relief request which was approved by NRC for the first interval. It was copied over to the second interval program verbatim. The 1989 Edition of ASME Section XI has been reviewed for the correct reference and ISPT-05 has been revised to give the correct reference. The relief is still needed. It is SQN's position that ISPT-05 provides an adequate discussion of the proposed alternative and how it provides an adequate level of quality and safety which has previously been reviewed and approved by NRC. A corrected copy of ISPT-05 is provided in Attachment 2.k.

2.l Verify that there are no additional relief requests, other than those submitted on November 21, 1995. If additional relief requests are required, they should be submitted for staff review.

As a part of this request for additional Information, there are two additional relief requests for SQN's inservice pressure test program (ISPT-07 and ISPT-08) that are being submitted for staff review. These relief requests are provided in Attachment 2.l.

There are no other relief request planned for submittal at this time.

SEQUOYAH NUCLEAR PLANT (SQN)

UNITS 1 AND 2

RESPONSE TO NRC REQUEST FOR

ADDITIONAL INFORMATION

SECOND 10-YEAR INTERVAL

INSERVICE INSPECTION (ISI)

PROGRAM PLAN

ATTACHMENTS

2.a

2.b

2.g

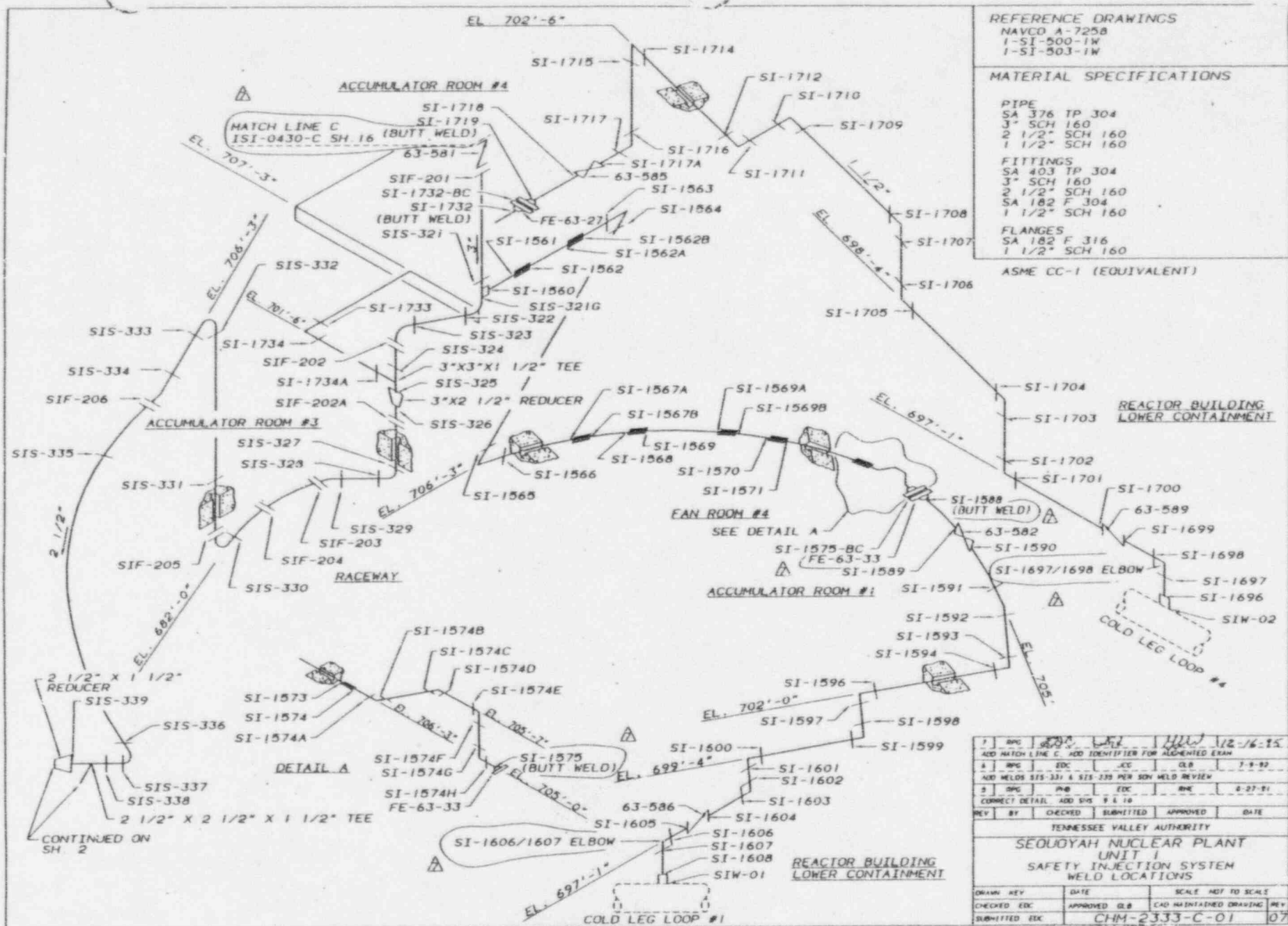
2.i

2.j

2.k

2.l

ATTACHMENT 2.a



1-51-503-1W

MATERIAL SPECIFICATIONS

PIPE

SA	376	TP	304
3"	SCH	160	
2 1/2"	SCH	160	
1 1/2"	SCH	160	

FITTINGS

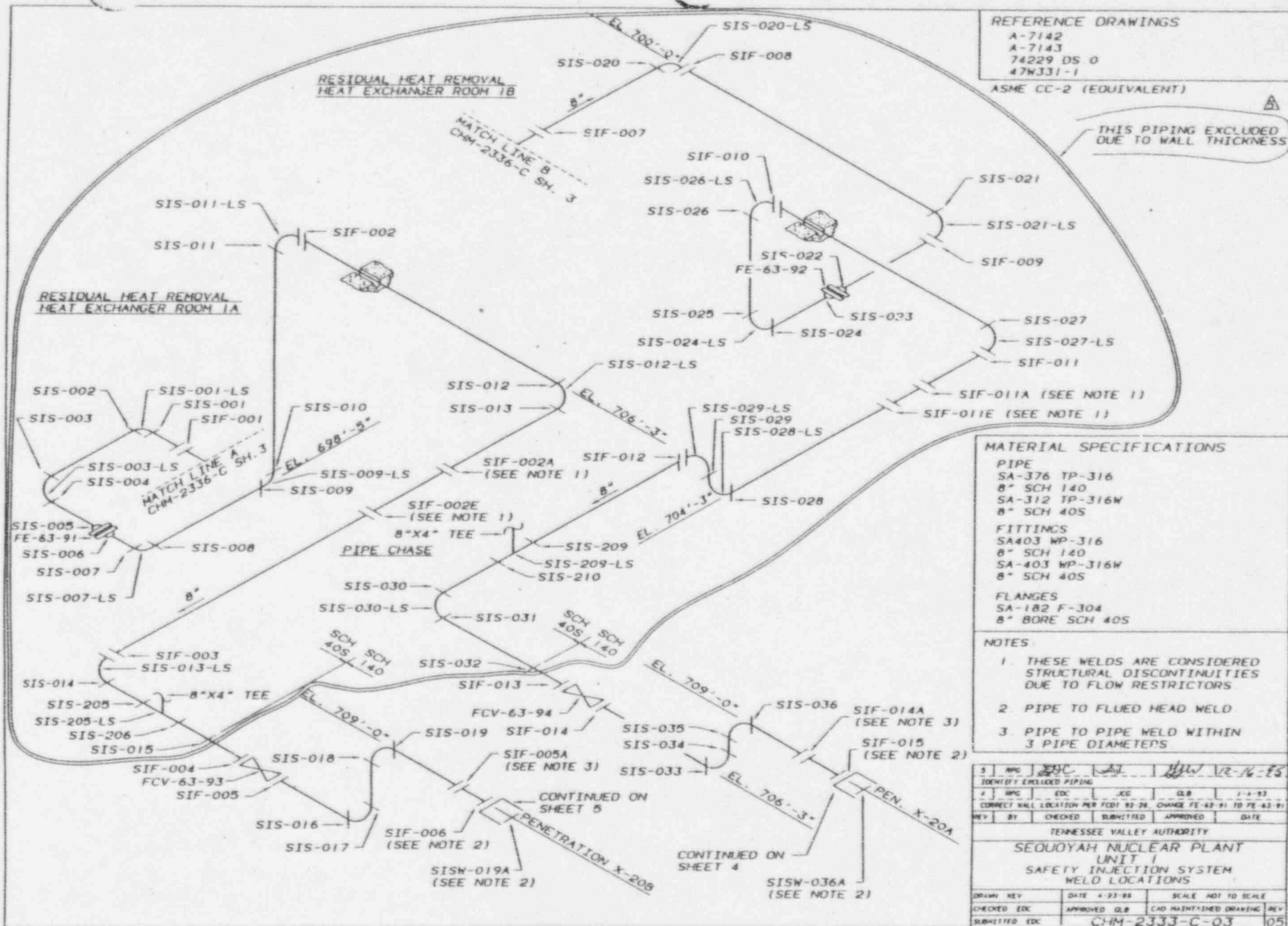
SA 403 TP 304
3" SCH 160
2 1/2" SCH 160
SA 182 F 304
1 1/2" SCH 160

FLANGES

SA 182 F 316
1 1/2" SCH 160

ASME CC-1 (EQUIVALENT)

7	RNC	12-6-82	12-6-82
ADD MATCH LINE C ADD IDENTIFIER FOR ALIGNED BRAN			
8	RNC	EDC	JCS OLB 7-9-82
ADD MELOS SFS-337 & SFS-232 PER SEN WELD REVIEW			
9	SPG	INB	EDC RNC 8-27-81
CORRECT DETAIL ADD SFS 9 & 10			
REV	BY	CHECKED	SUBMITTED APPROVED DATE
TENNESSEE VALLEY AUTHORITY			
SECOYAH NUCLEAR PLANT			
UNIT 1			
SAFETY INJECTION SYSTEM			
WELD LOCATIONS			
DRAWN KEY	DATE	SCALE NOT TO SCALE	
CHECKED EDC	APPROVED OLB	CAD MAINTAINED DRAWING	
SUBMITTED EDC	CHM-2333-C-01		REV



REFERENCE DRAWINGS
 A-7142
 A-7143
 74229 DS 0
 47WJ31-1
 ASME CC-2 (EQUIVALENT)

THIS PIPING EXCLUDED
 DUE TO WALL THICKNESS

MATERIAL SPECIFICATIONS

PIPE
 SA-378 TP-316
 8" SCH 140
 SA-312 TP-316W
 8" SCH 40S

FITTINGS
 SA403 WP-316
 8" SCH 140
 SA-403 WP-316W
 8" SCH 40S

FLANGES
 SA-182 F-304
 8" BORE SCH 40S

NOTES

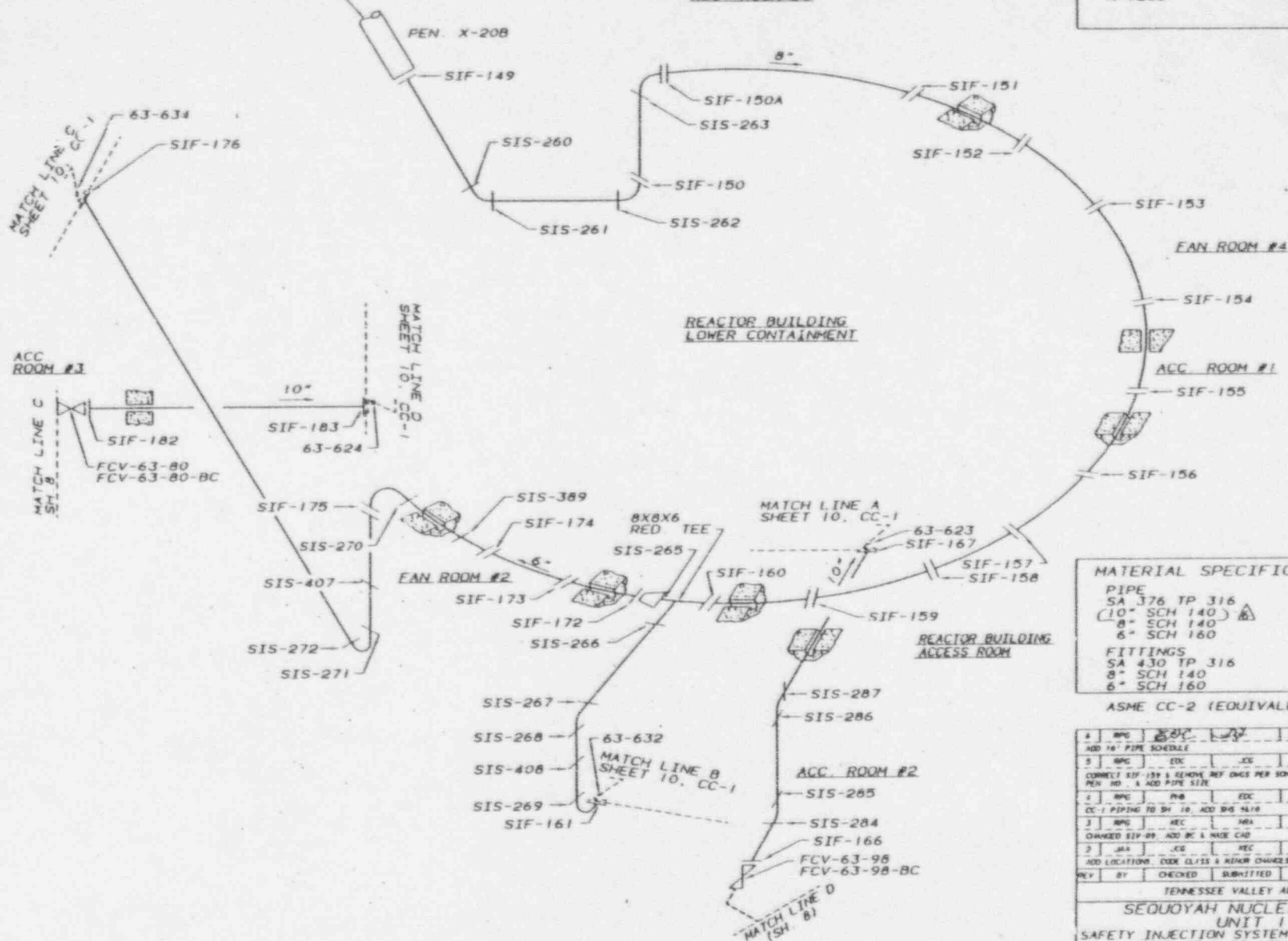
1. THESE WELDS ARE CONSIDERED STRUCTURAL DISCONTINUITIES DUE TO FLOW RESTRICTORS
2. PIPE TO FLUED HEAD WELD
3. PIPE TO PIPE WELD WITHIN 3 PIPE DIAMETERS

3	WPC	EDC	GLB	1-1-93
IDENTIFY EXCLUDED PIPING				
4	WPC	EDC	GLB	1-1-93
CORRECT WALL LOCATION PER FDOT 92-26, CHANGE FE-63-91 TO FE-63-91				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
SAFETY INJECTION SYSTEM				
WELD LOCATIONS				
DRAWN	REV	DATE	4-23-88	SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED	EDC	CHM-2333-C-03 105		

CONTINUED FROM SH. 3

ACC ROOM #4

REFERENCE DRAWINGS
A-7256



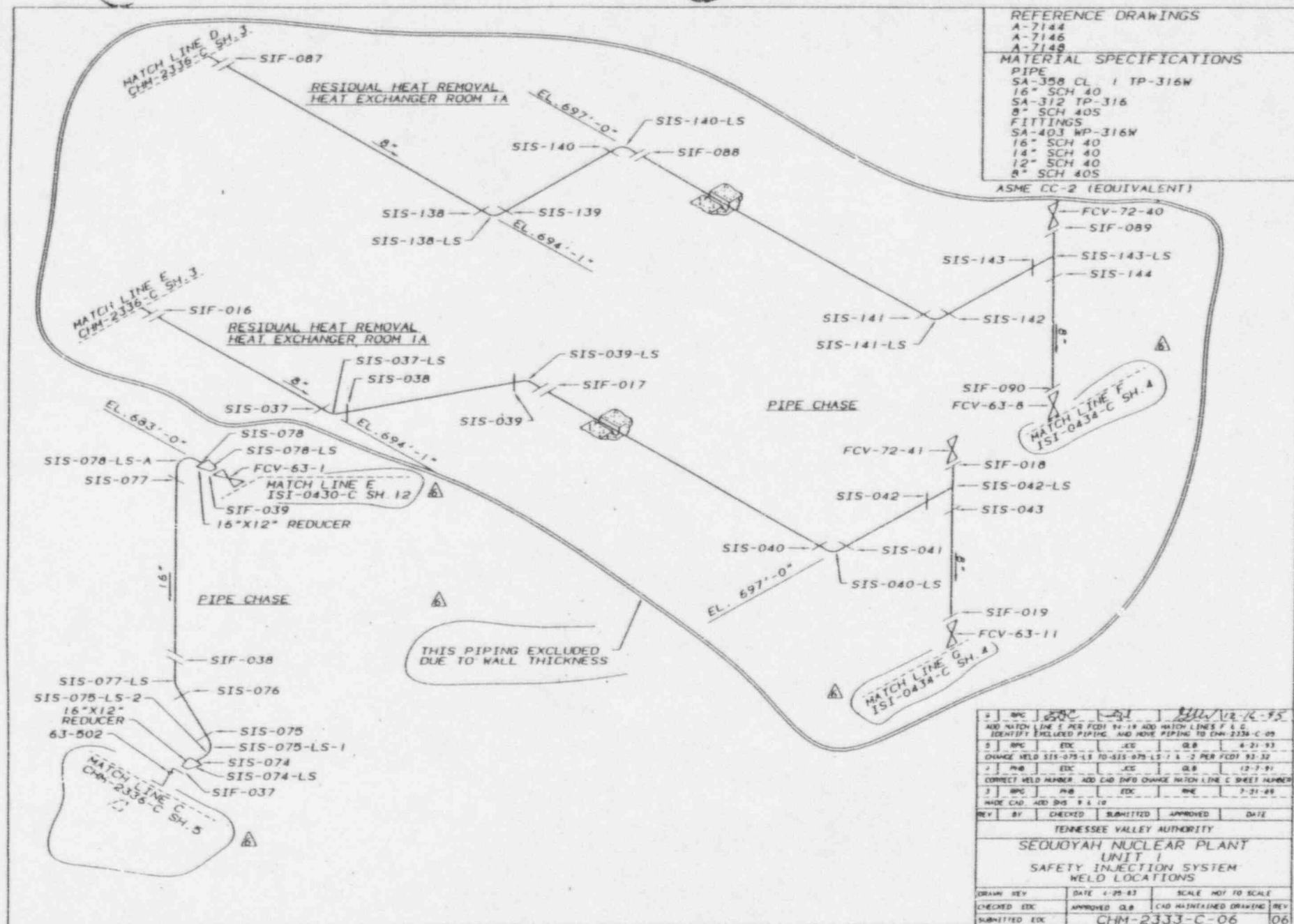
MATERIAL SPECIFICATIONS

PIPE
SA 376 TP 316
(10" SCH 140)
8" SCH 140
6" SCH 160

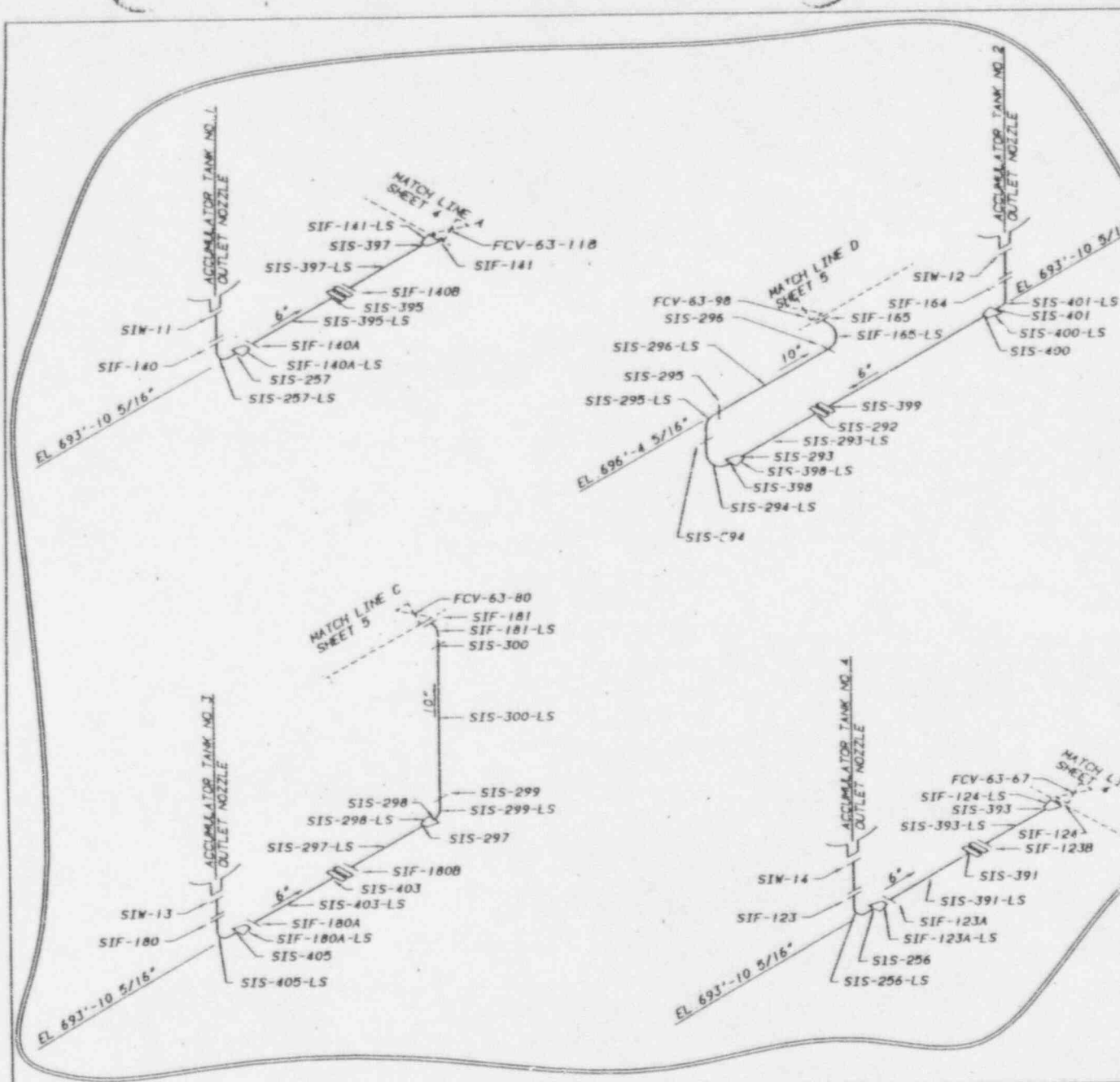
FITTINGS
SA 430 TP 316
8" SCH 140
6" SCH 160

ASME CC-2 (EQUIVALENT)

4	RPG	EDC	1/8-6-85		
ADD 16" PIPE SCHEDULE					
5	RPG	EDC	1/8-6-85		
CORRECT SIF-159 & REMOVE REF DNGS PER SCH WELD REVIEW. REMOVE FROM PER 10. & ADD PIPE SIZE					
1	RPG	RWB	EDC	RWE	2-27-81
CC-1 PIPING TO SH. 10. ADD SWS 14.10					
3	RPG	REC	RWA	GLB	1-18-80
CHANGED SIF-89. ADD BC & MAKE CAD					
2	JAA	CS	REC	GLB	10-7-87
ADD LOCATIONS. CHECK GLISS & REMARK CHANGES					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUOYAH NUCLEAR PLANT					
UNIT 1					
SAFETY INJECTION SYSTEM WELD LOCATIONS (FROM #2 & #3 ACCUMULATORS)					
DRWN	DWG	DATE	SCALE: NOT TO SCALE		
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC	CHM-2333-C-05			06



5	BPC	5-57-8	5-1	2214	12-16-95
ADD WATON 1141 PER FEDD 11-18 ADD WATON LINE 6					
IDENTITY INCLUDED PIPING 11-18 ADD WATON PIPING TO CAD-2238 C-05					
5	BPC	ETC	EC	QLB	4-21-93
CHANGE WELD 515-075-15 TO 515-075-15 1-2 PER FEDD 93-32					
1	PH	ETC	EC	QLB	12-7-91
CORRECT WELD NUMBER ADD CAD INFO CHANGE WATON LINE 6 SHEET NUMBER					
3	BPC	PH	ETC	QBL	7-21-89
WELD CAD ADD DWS 7-8-10					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
SAFETY INJECTION SYSTEM					
WELD LOCATIONS					
ISSUED BY	DATE 4-25-93			SCALE NOT TO SCALE	
CHECKED ETC	CHM			CAD MAINTAINED DRAWING	
SUBMITTED ETC	CHM-2333 C-06			REV	



REFERENCE DRAWINGS

A7255
A7256
114E103

MATERIAL SPECIFICATIONS

PIPE
6" ASTM A312 TP 304 SCH 40S
10" ASTM A312 TP 316 SCH 40S

FITTINGS
ASTM A403 TP 316 SCH 40S

ORIFICE FLG
600# ASTM A182 F316
6" BORE SCH 40S

ASME CC-2 (EQUIVALENT)

THIS PIPING EXCLUDED
DUE TO WALL THICKNESS

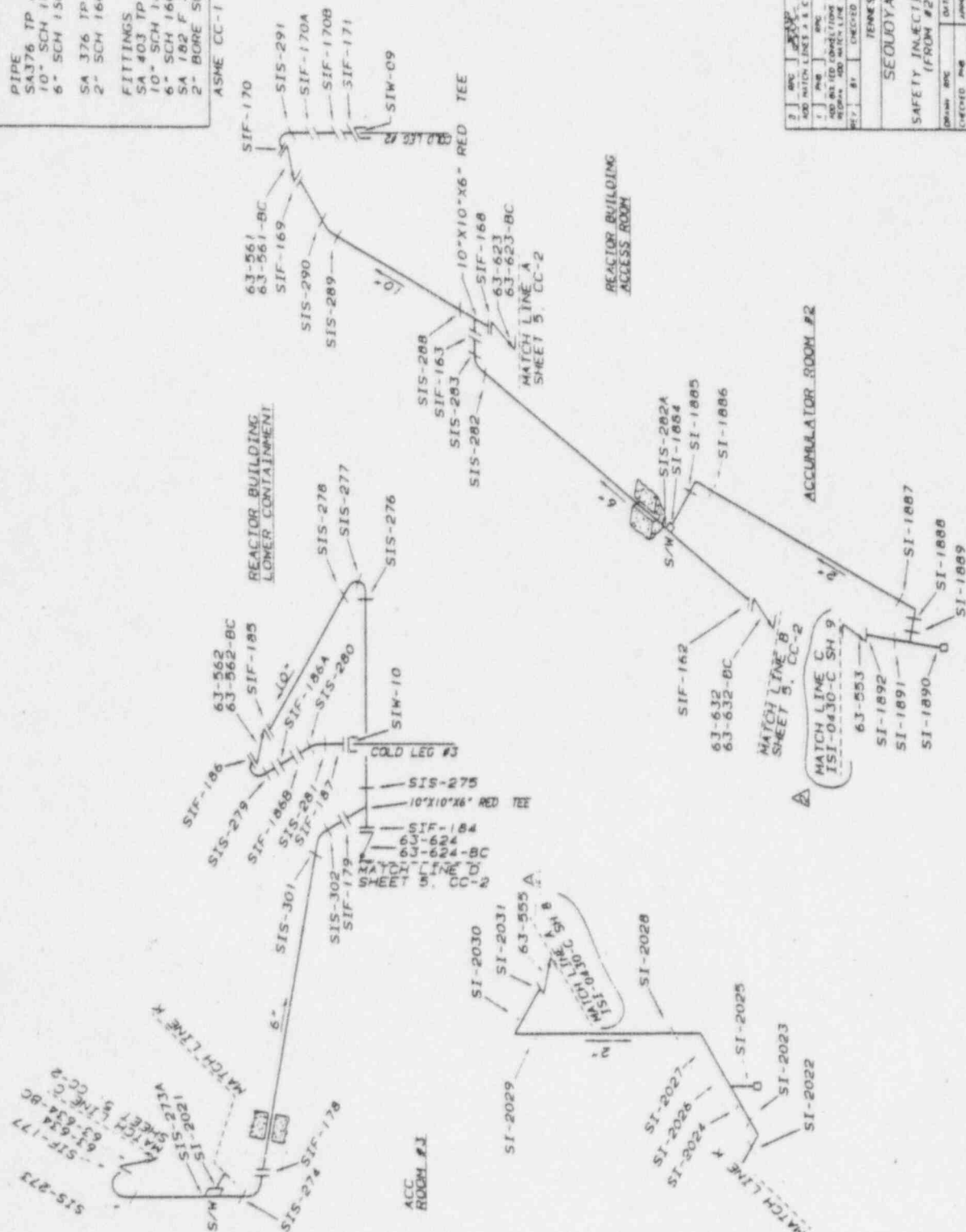
2	OPC	200	1-21	114E103-PS
IDENTIFY EXCLUDED PIPING				
1	OPC	PHB	EDC	RHE
ADD WELDS SIV-11, 12, 13, 14, AND CORRECT CONFIGURATION OF OUTLET NOZ. AND ADD SHTS 9 & 10				
REV	BY	CHECKED	SUBMITTED	APPROVED
DATE				
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
SAFETY INJECTION SYSTEM				
WELD LOCATIONS				
DRAWN	OPC	DATE	10-9-87	SCALE
CHECKED	JCS	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED	REC	CHM-2333-C-08	102	

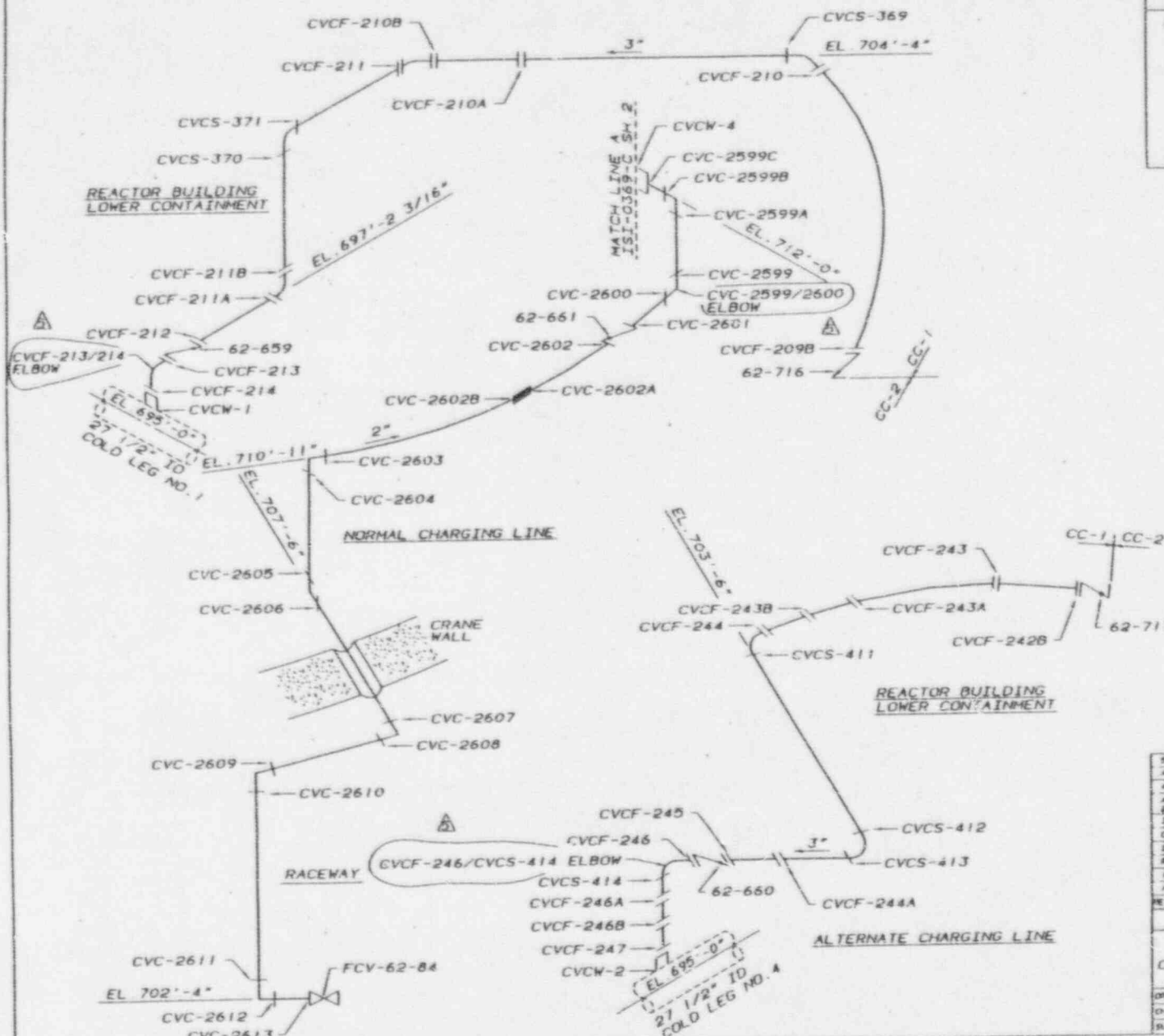
A-7256
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PIPE
SA 376 TP 316
10" SCH 140
6" SCH 150
SA 376 TP 304
2" SCH 160

SA 403 TP 316
10" SCH 140
6" SCH 160
SA 182 F 304
2" BORE SCH 160

ASME CC-1 (EQUIVALENT)

[illegible]



REFERENCE DRAWINGS

A-7267
A-7269
1-CVC-510-1W

MATERIAL SPECIFICATIONS

PIPE
SA376 TP304
3" SCH 160
2" SCH 160

FITTINGS
SA403 WP304
3" SCH 160
SA182 F304
2" BORE SCH 160

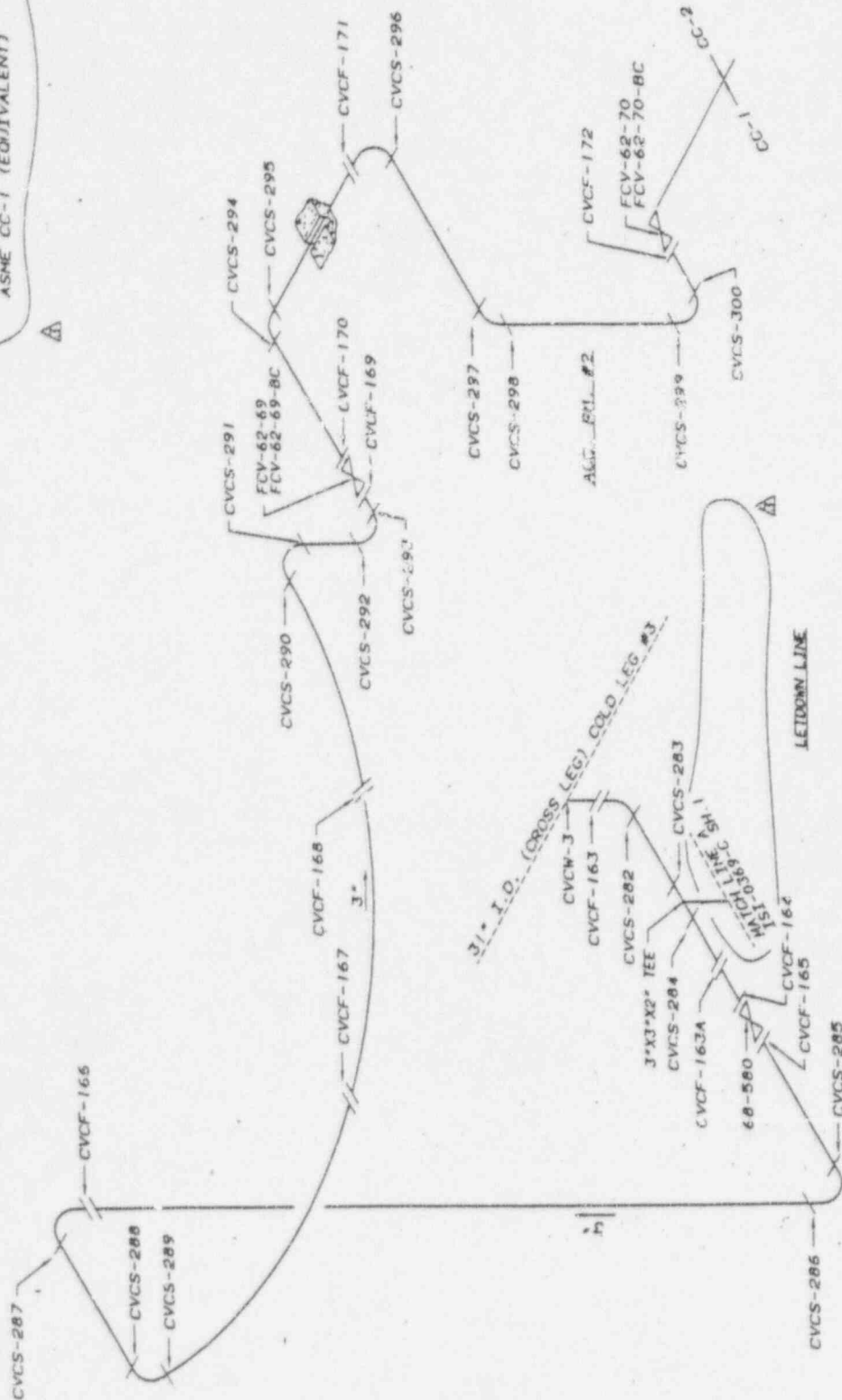
ASME CC-1 (EQUIVALENT)

1	QPC	2/28/81	100 IDENTIFIED FOR AUGMENTED EXAM	QCB	2-8-82
2	QPC	EDC	ADD WELDS CVC-2602A & 2602B CORRECT LOCATION OF CVCF-211A & 211B PER SON WELD METERS, MAKE CAD & ADD ELEVATIONS	QCB	11-29-81
3	QPC	QPC	CHANGE MATCH LINE A	QCB	8-25-87
4	QPC	REC	REVISED FOR ASME CODE CLASS & LOCATION	QCB	8-2-83
5	REV	EDC	ADD 2" LINE & MATERIAL SPECS	QCB	
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
CHEMICAL AND VOLUME CONTROL SYSTEM					
WELD LOCATIONS					
DRAWN	KEY	DATE	SCALE NOT TO SCALE		
CHECKED	EDC	APPROVED	QCB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC	CHM-2335-C-01			05

NAVCO A7265
I-RC-517-1W

MATERIAL SPECIFICATIONS
A375 TP304 SEAM. STN. PIPE

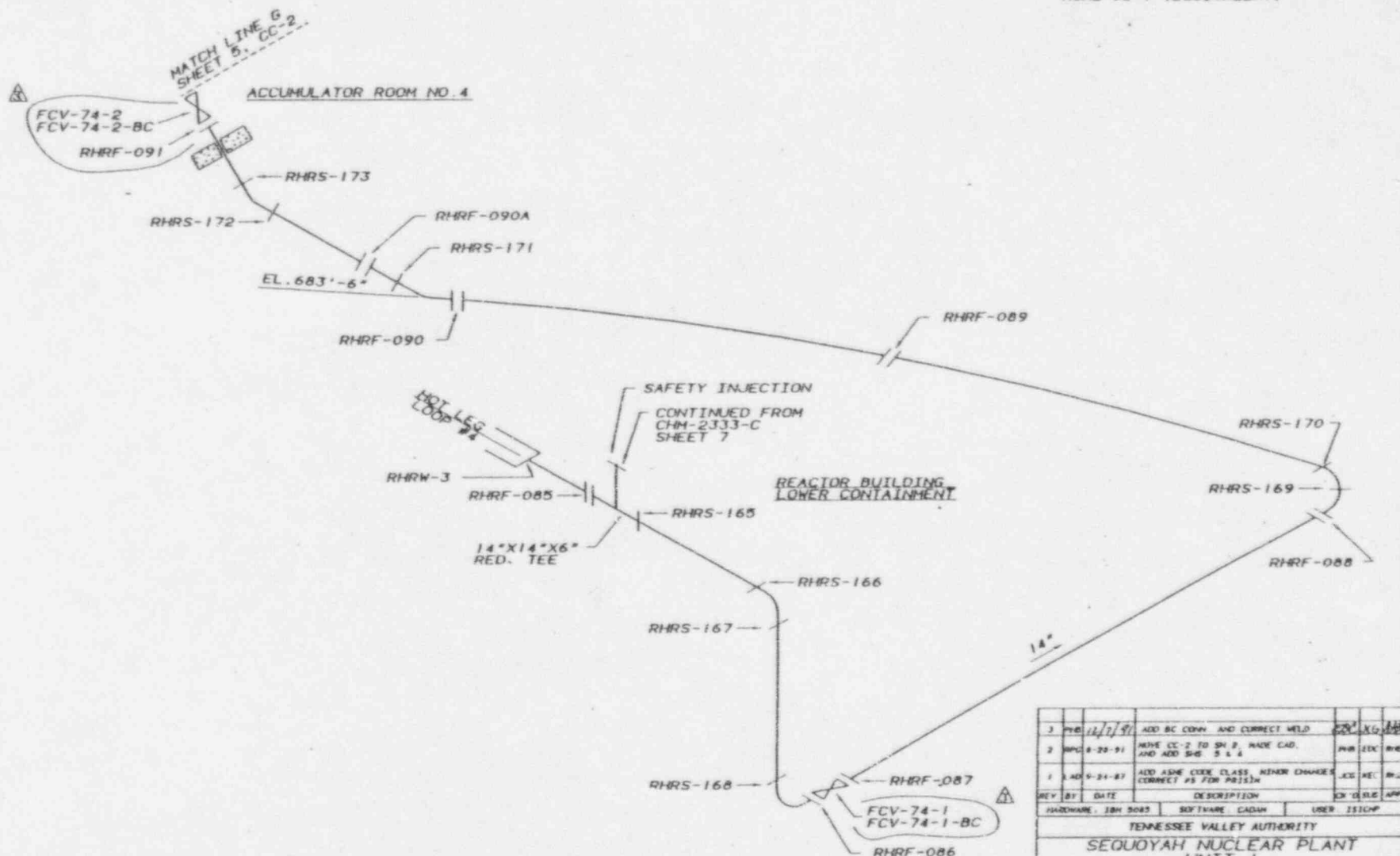
ASME CC-1 (EQUIVALENT)



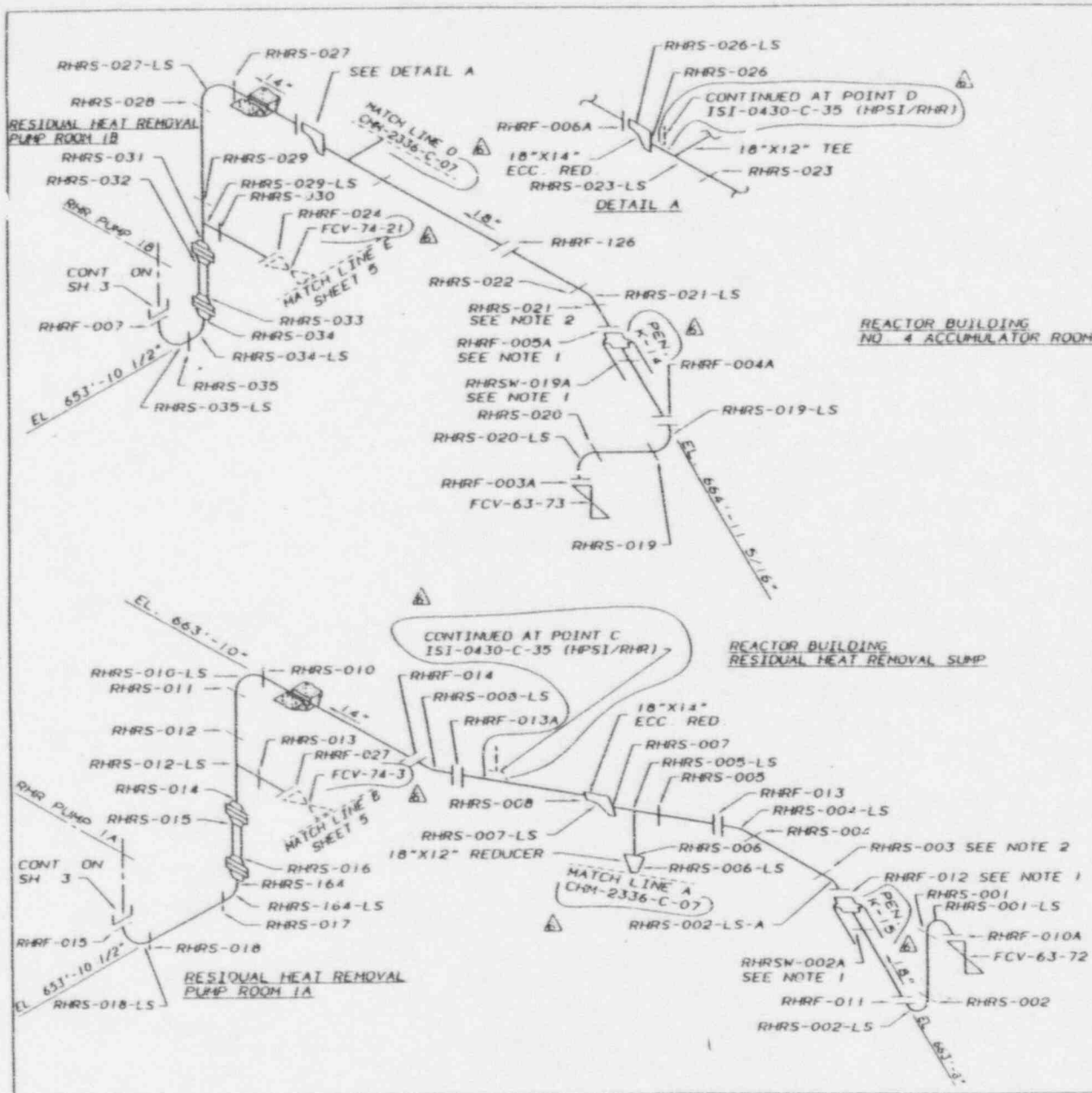
REACTOR BUILDING
LOWER CONTAINMENT

DATE	BY	DESCRIPTION	SOFTWARE	CDR	FILE	STATION
2 APR 78	81	ADD ACTION LINE A & DELETE CAD B.A.				PC-150
9 MAY 78	89	ADD MIXED CONNECTIONS & MAJOR CAD				PC-150
1 JUN 78	87	REVISED FOR ABOVE CODE CLARS				PC-150
1 JUL 78	87	LOCATIONS & NUMBER CHANGES				PC-150
1 AUG 78	87					PC-150

REFERENCE DRAWINGS	
NAVED A-7200	
MATERIAL SPECIFICATIONS	
A376 TP 316 STML. STL. SEAML. PIPE	
14" SCH 160	
A403 WP 316 STML. STL. FTGS.	
14" SCH 160	
ASME CC-1 (EQUIVALENT)	



3	REV	12/1/91	ADD BC CORN. AND CORRECT WELD	CHM	XX	100
2	REV	8-29-91	NAVE CC-2 TO SH 2, MAKE CAD. AND ADD SHS 5 & 6	CHM	EX	100
1	REV	9-24-87	ADD ASME CODE CLASS, KENNER CHANGES CORRECT AS FOR POSITION	CHM	EX	100
REV	BY	DATE	DESCRIPTION	CHK	DATE	APP
HARDWARE		IBM 5045	SOFTWARE	CADAM	USER	ISSCMP
TENNESSEE VALLEY AUTHORITY						
SEQUOYAH NUCLEAR PLANT						
UNIT 1						
RESIDUAL HEAT REMOVAL						
WELD LOCATIONS						
DRAWN	REV	SUBMITTED	APPROVED	SCALE	NTS	
DATE	2-7-87	DATE	DATE	DATE	1 OF 3 SHEETS	
CHECKED	EDC				DRAWING NO.	REV
DATE					CHM-2336-C03	



REFERENCE DRAWINGS
A-7197 74229 D15 0
74229 C3 0 47N331-1

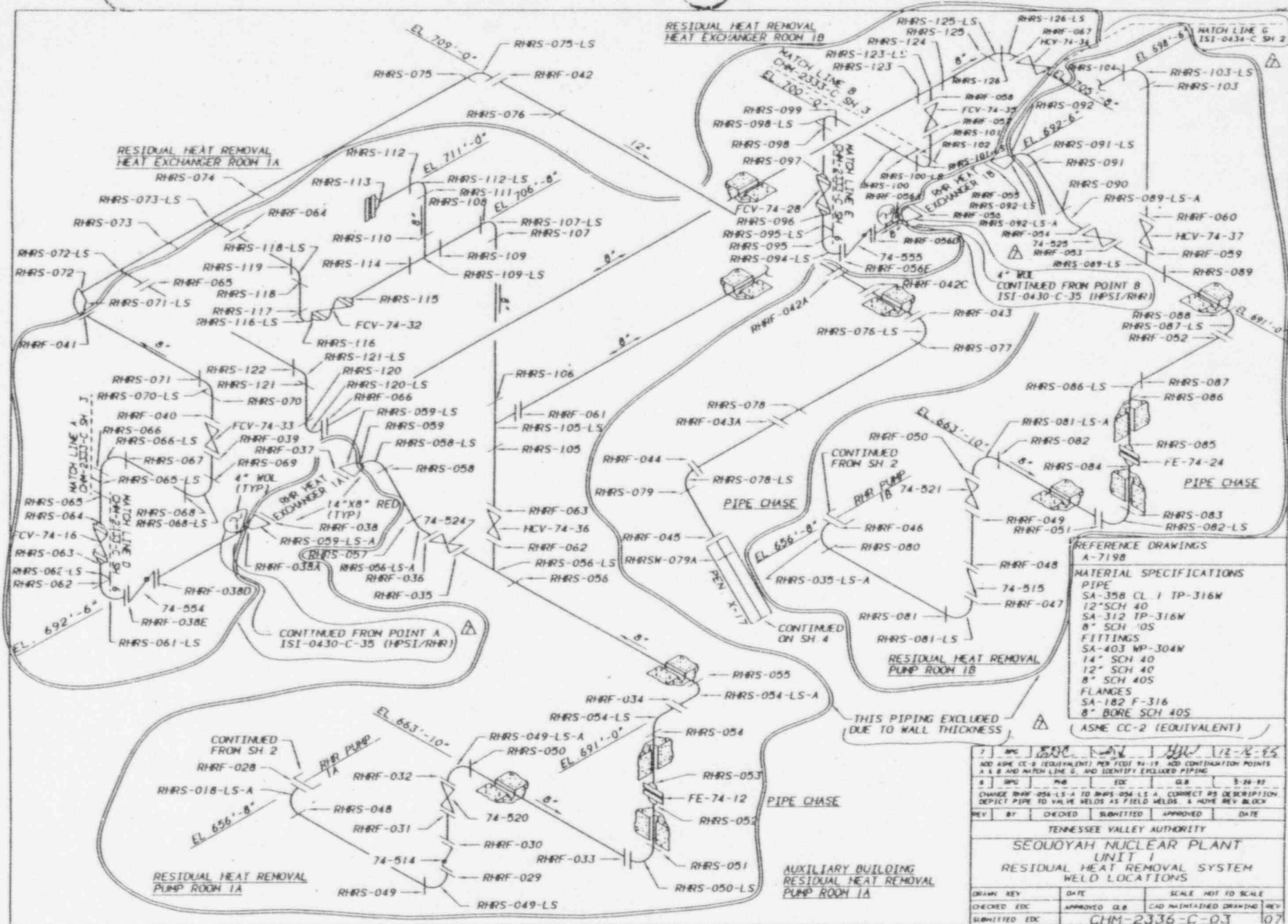
MATERIAL SPECIFICATIONS
PIPE
SA-358 CL 1 TP-316W
18" SCH 40
14" SCH 40
FITTINGS
SA-403 WP-316W
18"X12" CONC RED SCH 40
18"X14" ECC RED SCH 40
FLANGES
SA-182 F-316
14" BORE SCH 40
ASME CC-2 (EQUIVALENT)

NOTE
1 PIPE TO FLUED HEAD WELD
2 PIPE TO PIPE WELD WITHIN
3 PIPE DIAMETERS OF FLUED
HEAD

REACTOR BUILDING
NO 4 ACCUMULATOR ROOM

REACTOR BUILDING
RESIDUAL HEAT REMOVAL SUMP

1	ENG	CHM-2336-C-02	12-14-91
NOT CONTAINED: POINTS C & D VALUE MODS 74 2 & 74 21 & PER MODS CORRECT MATCH LINES X 3 D			
2	ENG	EDC	GLB
CHANGE REF ONE NUMBER FROM A-7197 TO A-7197 PER SON WELD REVIEW			
3	PHD	EDC	GLB
ADD LONG BEAM & MATCH LINE SH PLUMBERS			
4	ENG	PHD	EDC
ADDED NOTES 13 HELDS PER HELDS REDUCER SIZES NOTE PIPING TO SH 3			
5	LAD	EDC	GLB
ADDED ASME CODE CLASS LOCATION & CORRECTED AS FOR PRISM			
6	REV	EDC	GLB
REDRAWN ADDED LONG BEAMS AND CORRECTED REVERSED WELD NO 5 PUMP 18 AND BEAM 21			
REV	BY	CHECKED	SUBMITTED
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 1			
RESIDUAL HEAT REMOVAL SYSTEM			
WELD LOCATIONS			
DESIGNED BY	DATE	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED GLB	END MAINTAINED DRAWING REV	
SUBMITTED EDC	CHM-2336-C-02	06	

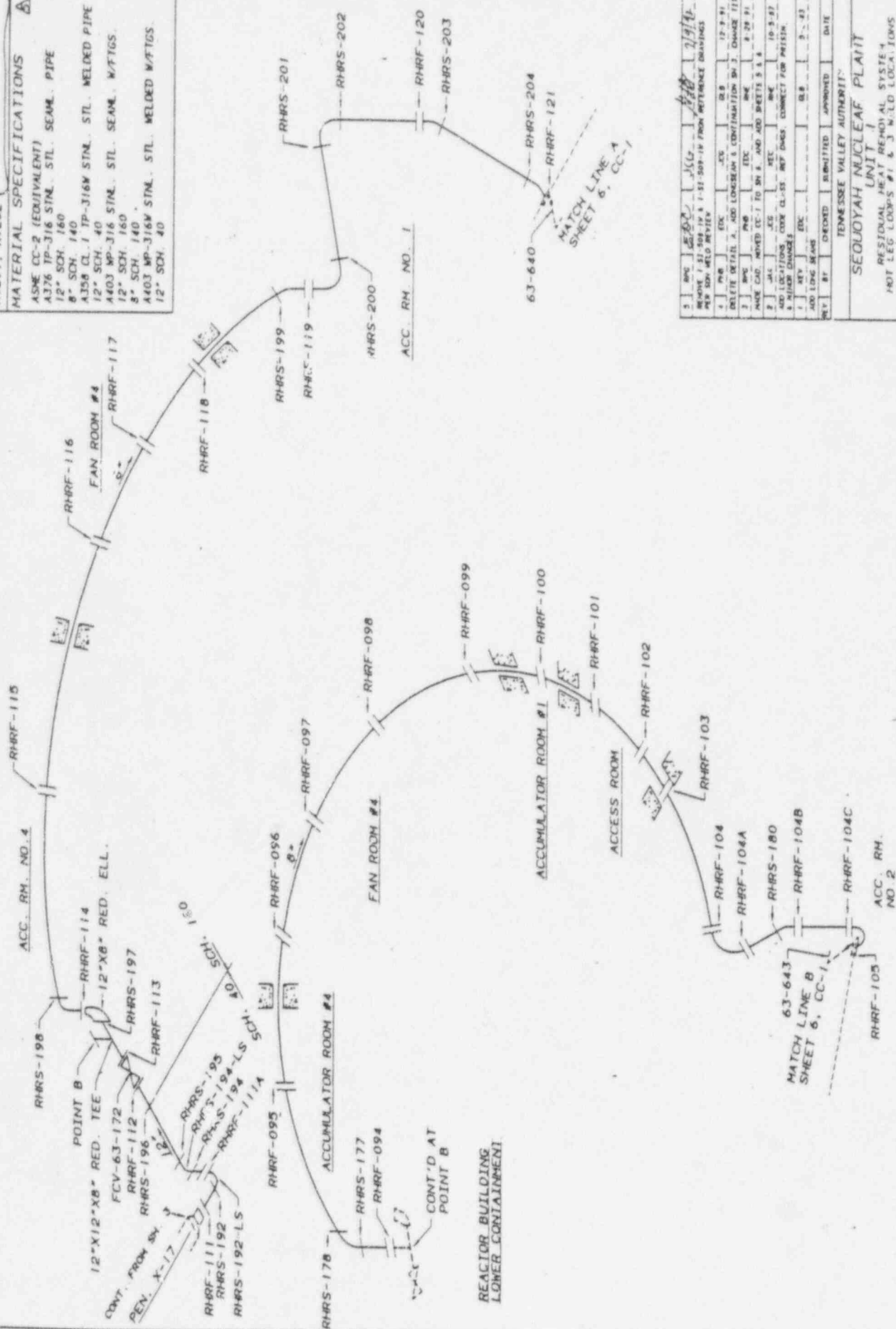


REFERENCE DRAWINGS

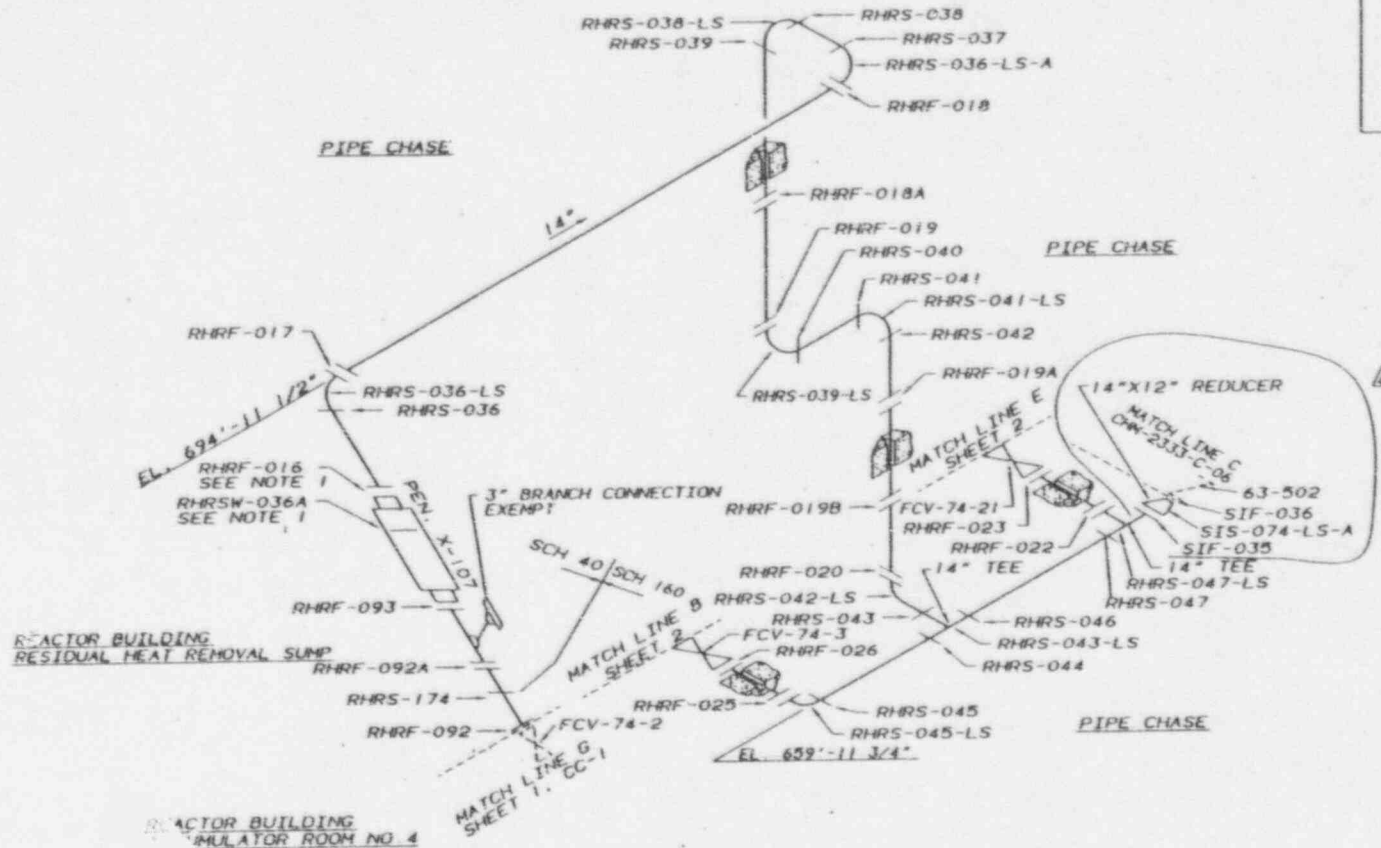
A7201, A7202

MATERIAL SPECIFICATIONS

- ASME CC-2 (EQUIVALENT)
- A376 TP-316 STN. STL. SEAM. PIPE
- 12" SCH. 160
- 8" SCH. 140
- A358 CL. 1 TP-316W STN. STL. WELDED PIPE
- 12" SCH. 40
- A403 WP-316 STN. STL. SEAM. W/TIGS
- 12" SCH. 160
- 8" SCH. 140
- A403 WP-316W STN. STL. WELDED W/TIGS
- 12" SCH. 40



3	WPC	63-62	12/9/91	12-9-91
REQUEST # 63-589-19-A 1-51-509-19 FROM RETIREMENT DRAWINGS 1001 LEG LOOPS # 1 6 3 WILD LOC. TOWNS				
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REFERENCE DRAWINGS
 A-7197 74229 D15 0
 A-7200 74229 C3 0
 47W331-1

MATERIAL SPECIFICATIONS

PIPE
 SA-358 CL 1 TP-316W
 18" SCH 40
 14" SCH 40
 FITTINGS
 SA-403 WP-316W
 18" SCH 40
 14" SCH 40
 FLANGES
 SA-182 F-316
 14" BORE SCH 40

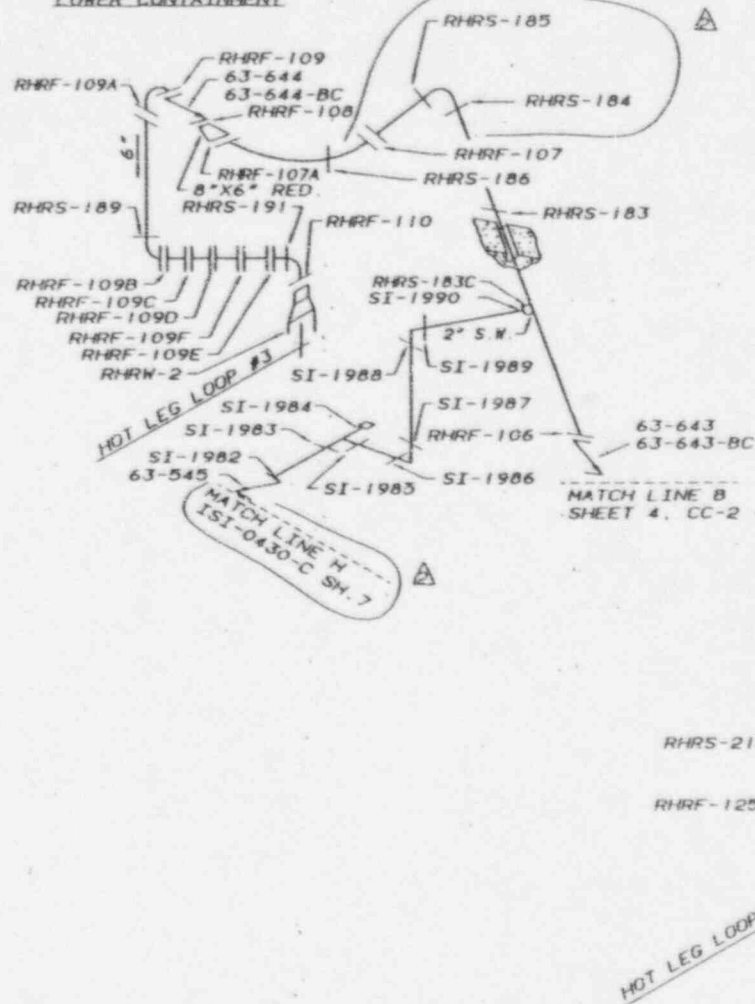
ASME CC-2 (EQUIVALENT)

NOTE

1. PIPE TO FLUED HEAD WELD

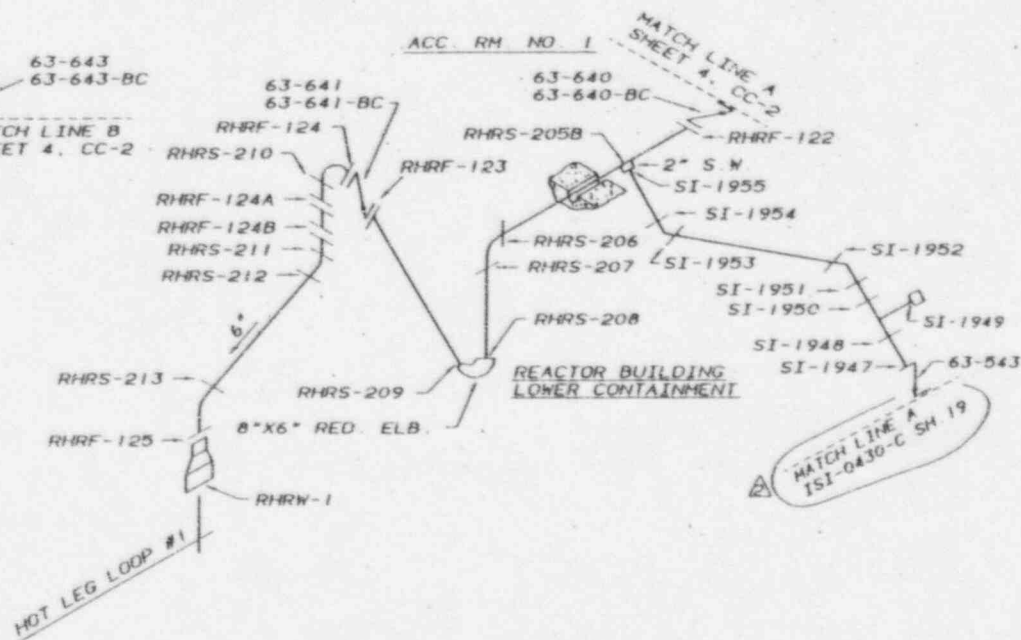
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61	WPC	EDC	12-16-85	146	12-16-85
62	WPC	EDC	12-16-85	146	12-16-85
63	WPC	EDC	12-16-85	146	12-16-85
64	WPC	EDC	12-16-85	146	12-16-85
65	WPC	EDC	12-16-85	146	12-16-85
66	WPC	EDC	12-16-85	146	12-16-85
67	WPC	EDC	12-16-85	146	12-16-85
68	WPC	EDC	12-16-85	146	12-16-85
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71	WPC	EDC	12-16-85	146	12-16-85
72	WPC	EDC	12-16-85	146	12-16-85
73	WPC	EDC	12-16-85	146	12-16-85
74	WPC	EDC	12-16-85	146	12-16-85
75	WPC	EDC	12-16-85	146	12-16-85
76	WPC	EDC	12-16-85	146	12-16-85
77	WPC	EDC	12-16-85	146	12-16-85
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97	WPC	EDC	12-16-85	146	12-16-85
98	WPC	EDC	12-16-85	146	12-16-85
99	WPC	EDC	12-16-85	146	12-16-85
100	WPC	EDC	12-16-85	146	12-16-85

REACTOR BUILDING
LOWER CONTAINMENT



REFERENCE DRAWINGS
A7201, A7202, I-SI-508-1W, I-SI-509-1W
MATERIAL SPECIFICATIONS
A376 TP-316 STNL STL SEAML PIPE
A403 WP-316 STNL STL FTGS
8\"/>

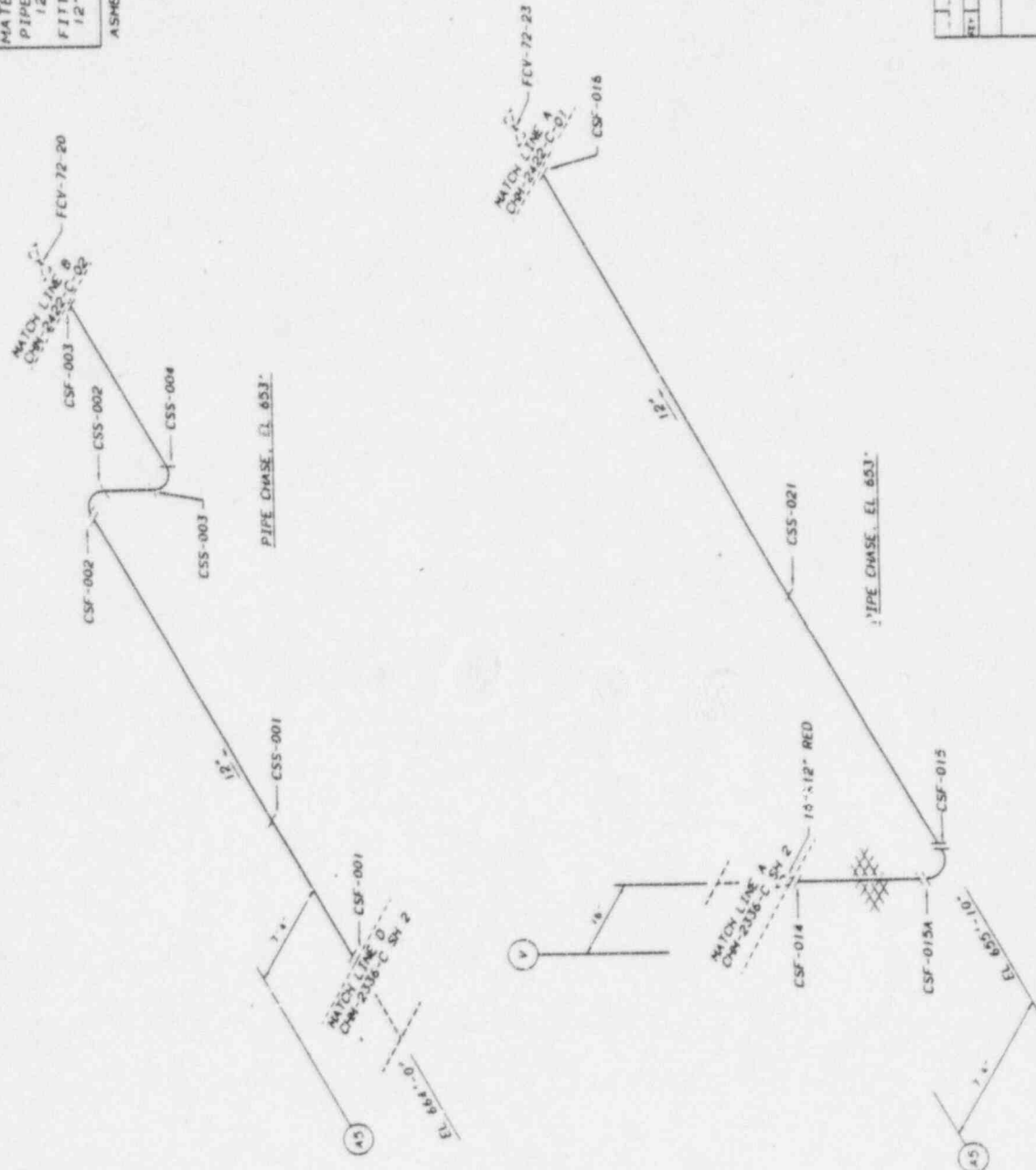
ASME CC-1 (EQUIVALENT)



2	WPC	EDC	JEC	QLB	12-9-91
ADD MATCH LINE H PER TCDT 91-19. ADD MATCH LINE A. CORRECT CONFIG.					
1	WPC	EDC	JEC	QLB	12-9-91
ADD MATCH LINE A. CORRECT CONFIG.					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
RESIDUAL HEAT REMOVAL SYSTEM					
HOT LEG LOOPS #1 & 3 WELD LOCATIONS					
DRAWN	WPC	DATE	8-30-91	SCALE	NOT TO SCALE
CHECKED	WPC	APPROVED	WPC	CAD	MAINTAINED DRAWING
SUBMITTED	EDC	CHM-2336-C-06	02		

REFERENCE DRAWINGS

NAVED A-7203
 MATERIAL SPECIFICATIONS
 PIPE
 12" SCH 40 SA312 TP304
 FITTINGS
 12" SCH 40S SA403 WP304M
 ASME CC-1 (EQUIVALENT)



REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE		
TENSERSEE VALLEY AUTHORITY							
SEOUYAH NUCLEAR PLANT							
UNIT 1							
RESIDUAL HEAT REMOVAL SYSTEM							
WELD LOCATIONS							
DATE	12/11/93	SCALE	NOT TO SCALE				
CHECKED	...	APPROVED	...				
SUBMITTED	...	DATE	12/11/93				
C-336-C-07							
00							

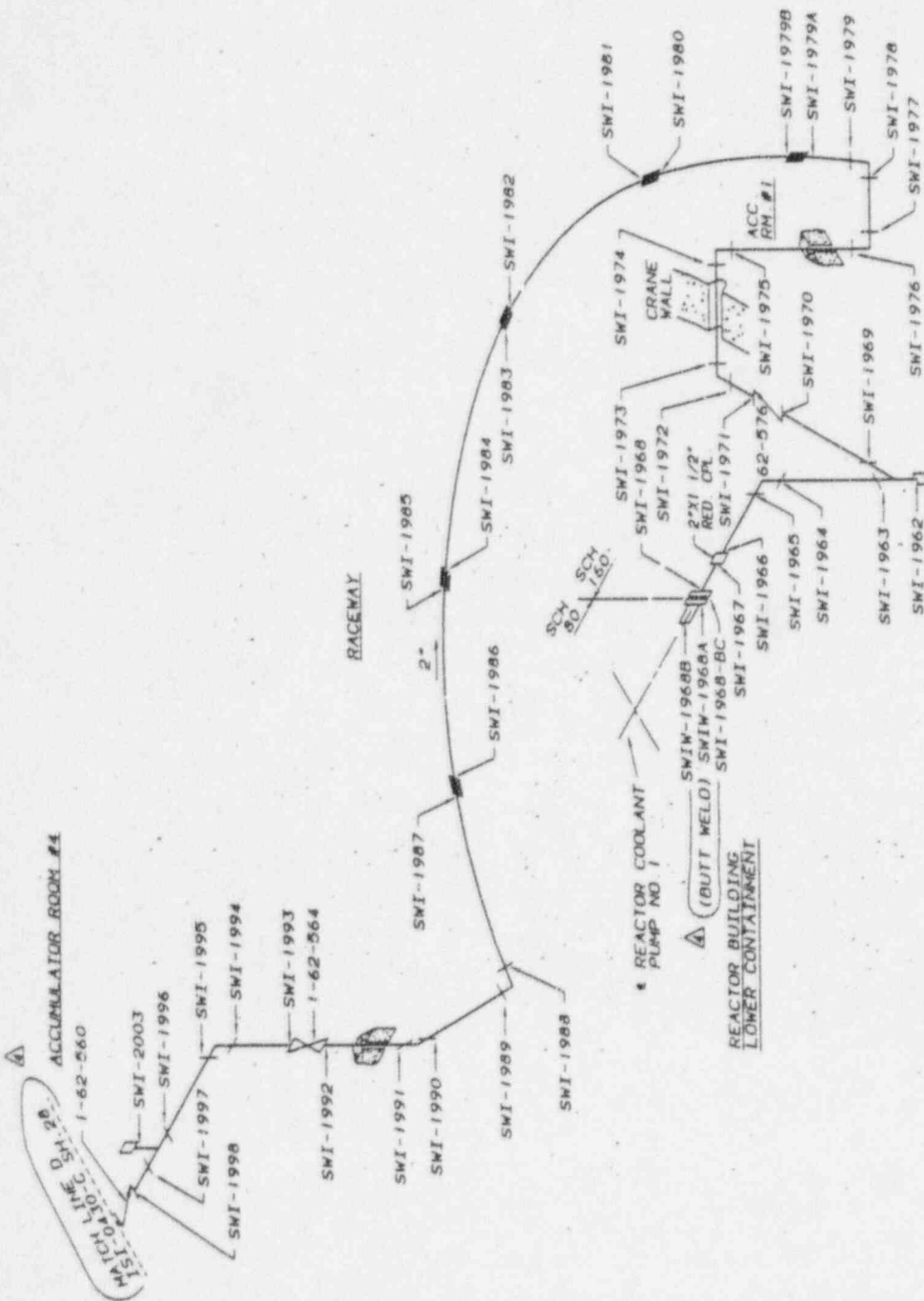
REFERENCE DRAWINGS 1-CVC-500-1W

MATERIAL SPECIFICATIONS

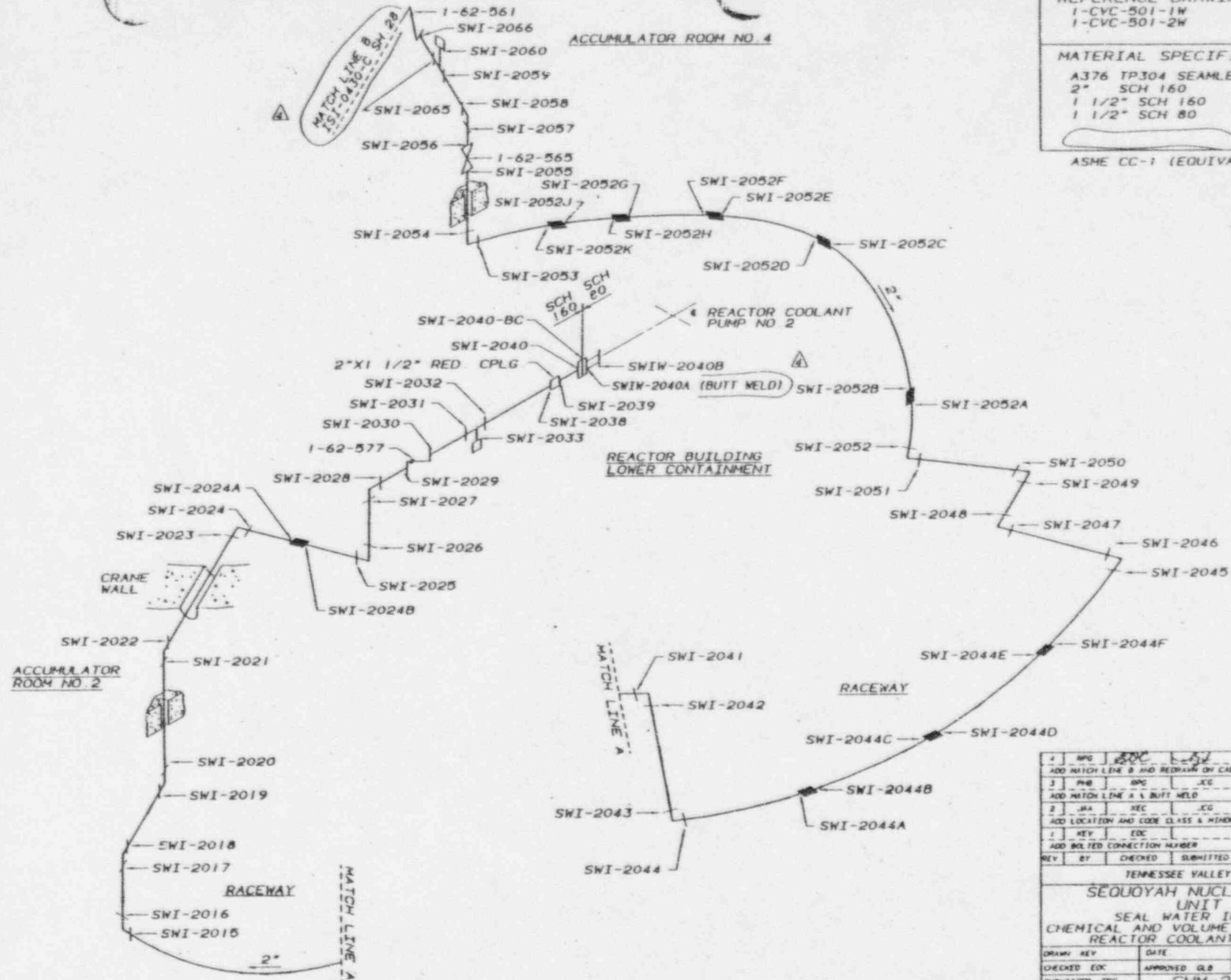
A376 TP 304 SEAMLESS SS PIPE
2" SCH 160
1 1/2" SCH 160
1 1/2" SCH 80



ASME CC-1 (EQUIVALENT)



1	APC	2500	102-16-23
2	ADD ACTION LINE 0 PER FIG 11-15 AND NOTE CUD		
3	IN-8	APC	12-3-81
4	ADD BUTT WELD AND NOTE		
5	2" SCH 160	APC	10-3-87
6	ADD LOCATION CODE 0.55 AND REPAIR CHANGES		
7	KEY	EDC	5-2-84
8	ADD 84.100 CONNECTION NUMBER		
9	BY	CHECKED	APPROVED
10	DATE		
TENNESSEE VALLEY AUTHORITY			
SECOYAH NUCLEAR PLANT			
UNIT 1			
SEAL WATER INJECTION			
CHEMICAL AND VOLUME CONTROL SYSTEM			
REACTOR COOLANT PUMP NO. 1			
DESIGNER	REV	DATE	SCALE NOT TO SCALE
CHECKED	EDC	APPROVED	EDC
SUBMITTED	EDC	DATE	CHM-2338-C-01
			04



REFERENCE DRAWINGS
 1-CVC-501-1W
 1-CVC-501-2W

MATERIAL SPECIFICATIONS
 A376 TP304 SEAMLESS SS PIPE
 2" SCH 160
 1 1/2" SCH 160
 1 1/2" SCH 80
 ASME CC-1 (EQUIVALENT)

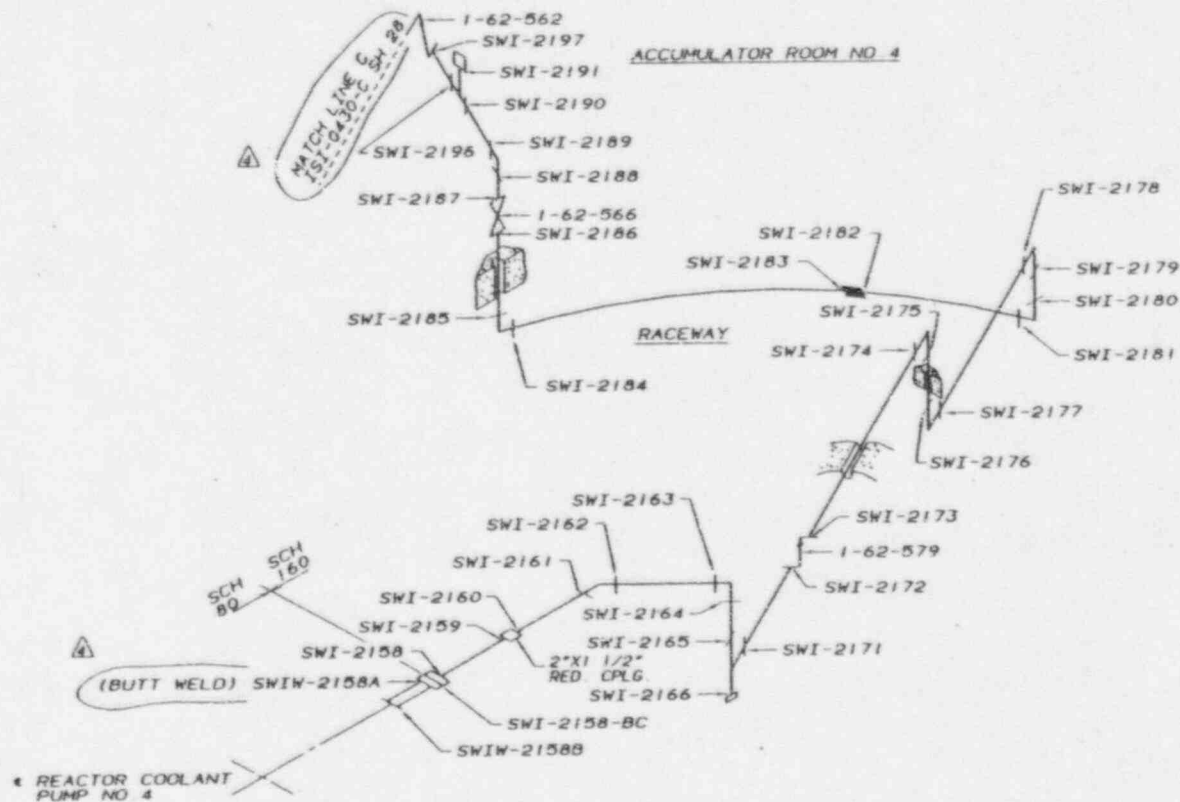
4	WPC	EDC	CLB	12-3-91
ADD MATCH LINE B AND REDRAW ON CAD				
3	WPC	CLB	12-3-91	
ADD MATCH LINE A & BUTT WELD				
2	JWA	SEC	WME	10-4-87
ADD LOCATION AND CODE CLASS & MINOR CHANGES				
1	KEY	EDC	CLB	5-2-84
ADD BUTT CONNECTION NUMBER				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
SEAL WATER INJECTION				
CHEMICAL AND VOLUME CONTROL SYSTEM				
REACTOR COOLANT PUMP NO 2				
DRAWN	REV	DATE	SCALE NOT TO SCALE	
CHECKED	EDC	APPROVED	CLB	CAD MAINTAINED DRAWING
SUBMITTED	EDC	CHM-2338-C-02		104

REFERENCE DRAWINGS
1-CVC-503-1W

MATERIAL SPECIFICATIONS

A376 TP304 SEAMLESS SS PIPE
2" SCH 160
1 1/2" SCH 160
1 1/2" SCH 80

ASME CC-1 (EQUIVALENT)

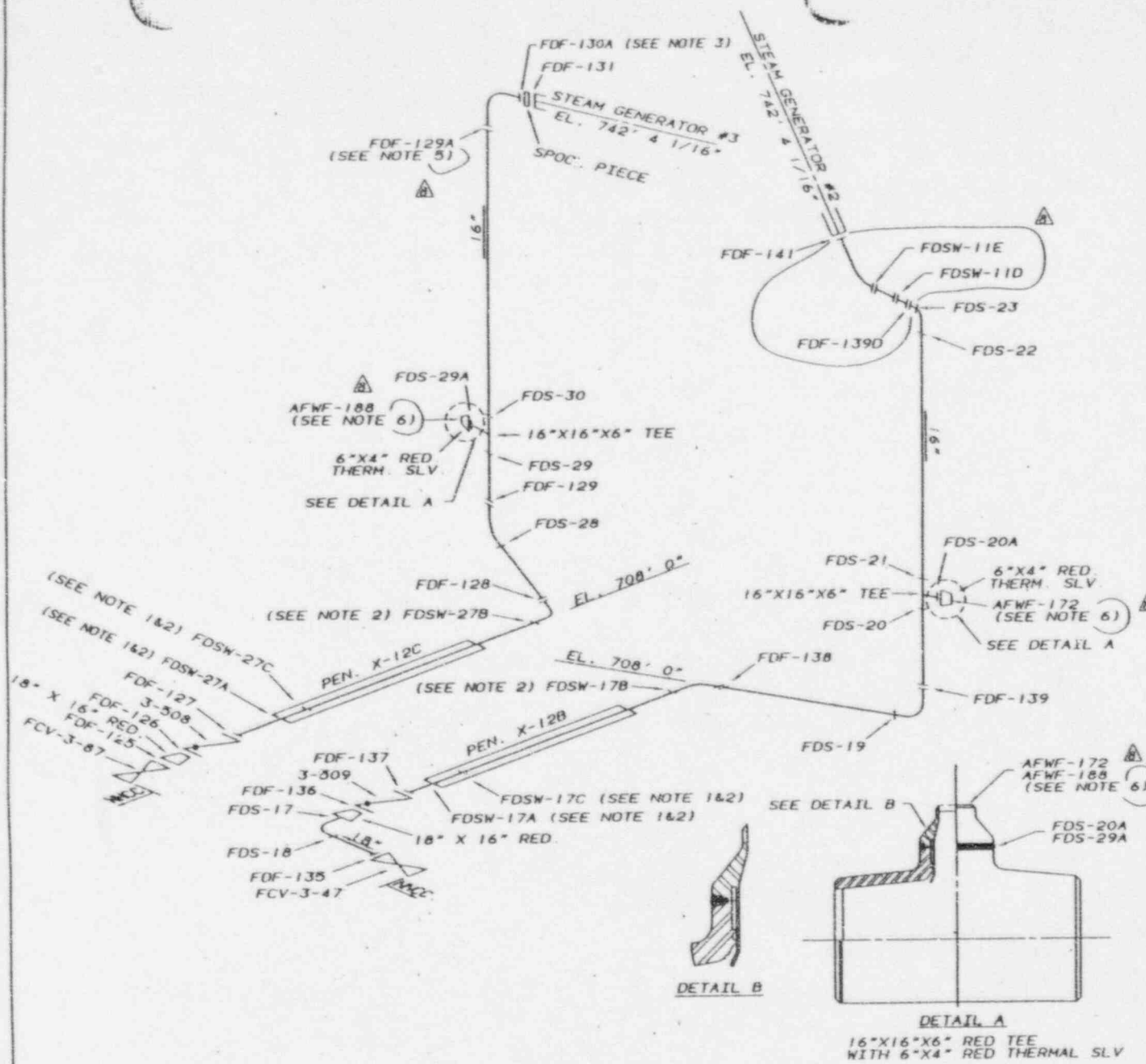


4	RPC	LOC	LOC	LOC	12-16-85
3	RWB	RPC	JCS	QLB	12-3-81
2	WA	REC	JCS	RNE	10-4-87
1	KEY	EDC	QLB	5-2-84	
ADD BOLTED CONNECTION NUMBER					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
SEAL WATER INJECTION					
CHEMICAL AND VOLUME CONTROL SYSTEM					
REACTOR COOLANT PUMP NO. 4					
DRAWN KEY	DATE	SCALE	NOT TO SCALE		
CHECKED EDC	APPROVED QLB	CAD MAINTAINED DRAWING	REV		
SUBMITTED EDC	CHN-2338-C-04				04



- ASME CC-2 (EQUIVALENT)

9	WPG	6-PC	1-A	B/C	1E-16-FS
ADD	REDUCER SPECS	CHANGE NOTES 3 & 4	AND CHANGE	WELD FBY DWH	
TO	0.0MM	INTERNAL SPONGE PIECE	& WELD FBY DBLA	ADD WELDS FOSK DRG	
6 - ISO	ADD "THERMAL SHOCK TREATING FORM"				
2	WPG	M-6	ETC.	QLB	6-24-R3
ADD	WELDS APFW-148	6 - ISO	ADD DETAILS A18	ADD THERMAL STRENGTH	
ADD	BT DRG 4-716	& ADD NOTE 5			
2	WPG	M-6	-CC-	QLB	11-18-R2
ADD	PURPOSE FOR PROSEM,	& ADD NOTES 2, 3, & 4,	PER SCH WELD		
ADD	REVIEW				
REV	BT	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
FEEDWATER SYSTEM					
WELD LOCATIONS					
DRAWN BY	DATE	9-4-83	SCALE NOT TO SCALE		
CHECKED EDC	APPROVED QLB	CAD MAINTAINED DRAWING REV			
SUBMITTED EDC	CHM-2339-C-01				05

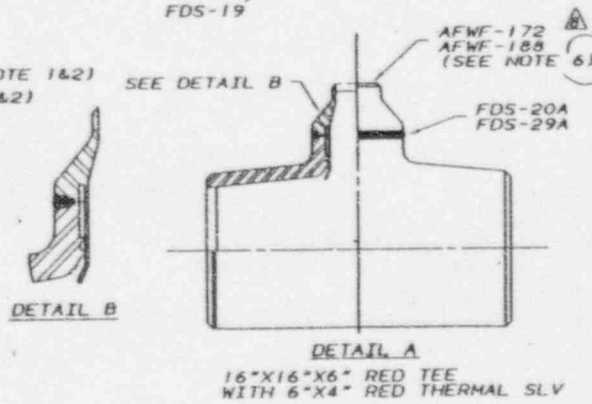


REFERENCE DRAWINGS
 A-7108 A-7162 (AFW)
 90 6146-D1 16\"X16\"X6\" TEE
 47W331-1 PENETRATION DWG

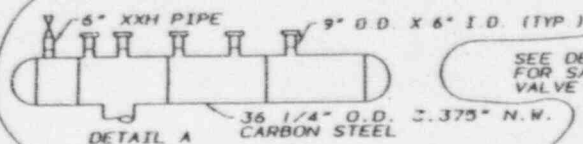
MATERIAL SPECIFICATIONS
 PIPE
 SA-333 CL 1
 18\" SCH 80
 16\" SCH 80
 FITTINGS
 SA-420 GR WPL-6
 18\" SCH 80
 16\" SCH 80
 SA-350 GR LFI
 6\" SCH 80
 6\"X4\" REDUCER SCH 80

SPOOL PIECE
 SA-508 CL 2
 16\" O.D. X 14 25\" I.D.
 ASME CC-2 (EQUIVALENT)

- NOTES
1. PIPE TO FLUED HEAD WELD
 2. SHOP WELD BY TUBE TURNS
 3. WELD FDF-130 WAS REPLACED WITH FDF-130A AT SAME LOCATION
 4. SHOP WELD BY WESTINGHOUSE
 5. WELD FDF-031 WAS CHANGED TO FDF-129A AT SAME LOCATION PER SON WELD SECTION.
 6. WELDS AFWF-172 AND AFWF-188 ARE 4\" WELDS EXAMINED AS AN AUGMENTED INSPECTION.



2	WPC	EDC	CC	QLB	6-21-81
ADD REDUCER SPEC CHANGE NOTES 1, 2, 3, 4, DELETE NOTE 5, CHANGE WELD FDF-130A TO -130B, REMOVE SPOOL PIECE AND WELDS FDF-130A, A-127C, ADD WELDS FDSV-110, A-111E, ADD THERMAL LINER FLANGING FORM					
7	WPC	EDC	CC	QLB	6-21-81
ADD WELDS AFWF-172 & -188, ADD DETAILS A&B, ADD THERMAL SLEEVE, ADD REF DWG A-7162, ADD NOTES 5 & 7, 8, CHANGE WELDS FDF-031 TO FDF-129A, A FDF-031 TO FDF-130C FROM REVIEW OF DWG A-7108 REV D & FCDI 93-50					
8	WPC	PHB	CC	QLB	11-18-82
ADD ZEROS FOR PRISHH, 1, ADD NOTES 2, 3, & 4, PER SON WELD MAP REVIEW					
9	WPC	EDC	CC	QLB	7-9-82
REVIEW A-7162 & ADD AFW-331-1 TO REFERENCE DWG PER WELD REVIEW, CHANGED THE FOLLOWING PER 61-112 1 APPENDIX E FCDI 92-05: FDS-31 TO FDF-31, FDF-130 TO FDF-130A, FDF-140 TO FDF-140A, FDS-24 TO FDF-24, & REMOVED FDF-130B					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
FEEDWATER SYSTEM					
WELD LOCATIONS					
DRAWN KEY	DATE 5-4-83	SCALE NOT TO SCALE			
CHECKED EDC	APPROVED QLB	CAD MAINTAINED DRAWING	REV		
SUBMITTED EDC	CHM-2339-C-02		08		



SEE DETAIL A
FOR SAFETY
VALVE MANIFOLD

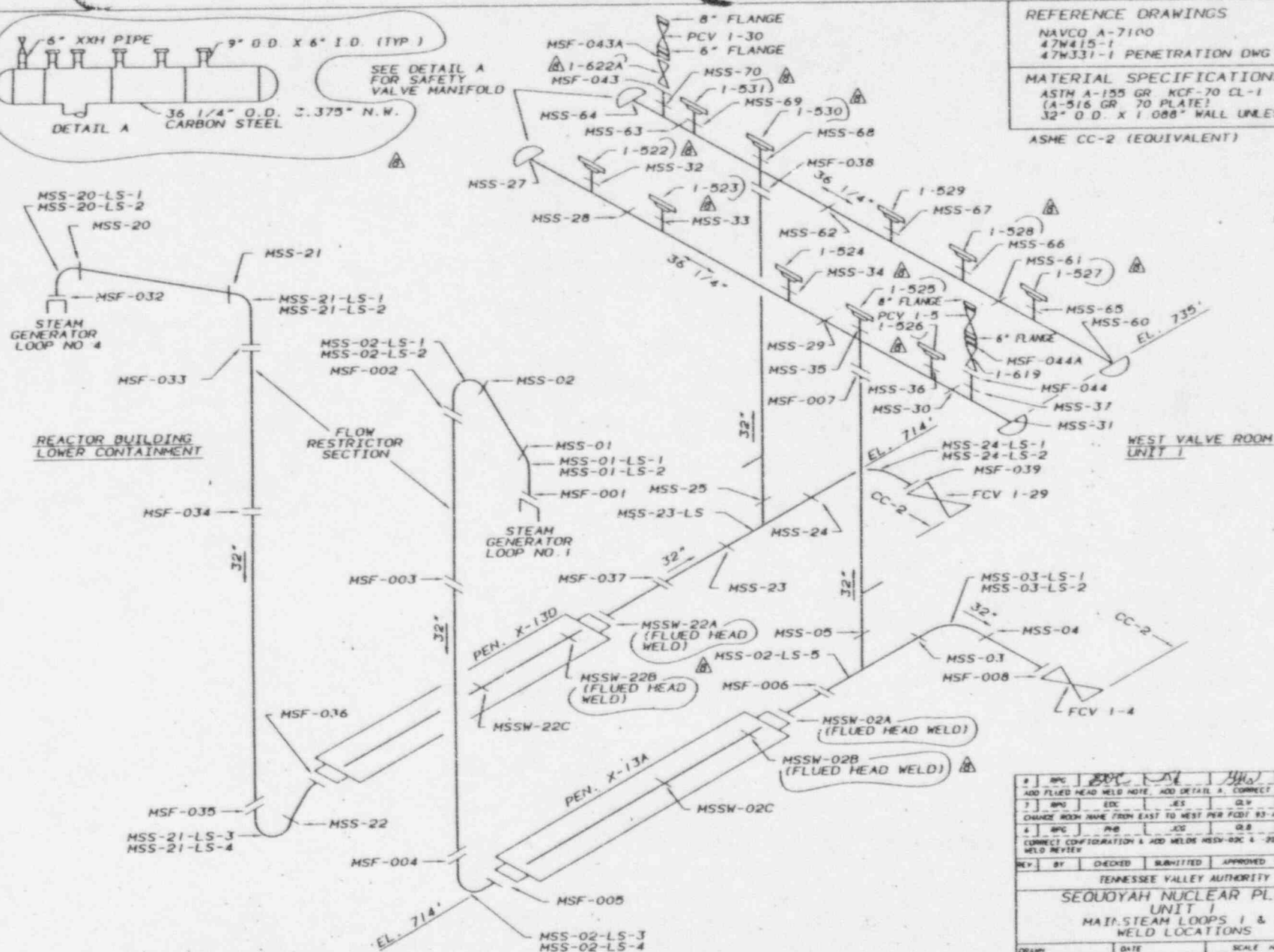
REFERENCE DRAWINGS

NAVCO A-7100
47W415-1
47WJ31-1 PENETRATION DWG

MATERIAL SPECIFICATIONS

ASTM A-155 GR KCF-70 CL-1
(A-516 GR 70 PLATE)
32\"/>

ASME CC-2 (EQUIVALENT)



1	RPC	EDC	1/15/85	1/15/85
ADD FLUED HEAD WELD NOTE, ADD DETAIL A, CORRECT VALVE NO. 5				
2	RPC	EDC	7-15-85	7-15-85
CHANGE ROOM NAME FROM EAST TO WEST PER FEED 83-17				
4	RPC	PHB	11/12/82	11/12/82
CORRECT CONFIGURATION & ADD WELDS MSSW-02C & -20C PER SONI WELD REVIEW				
REV.	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
MAIN STEAM LOOPS 1 & 4				
WELD LOCATIONS				
DRAWN	DATE		SCALE: NOT TO SCALE	
CHECKED: EDC	APPROVED: GLB		CAD MAINTAINED DRAWING: REV	
SUBMITTED: EDC	CHM-2340-C-01			

REFERENCE DRAWINGS
NAVCO A-7203

MATERIAL SPECIFICATIONS

PIPE
20" STD WT SA358 IP304 WELDED (O 375 WALL)
12" SCH 40 SA312 IP304

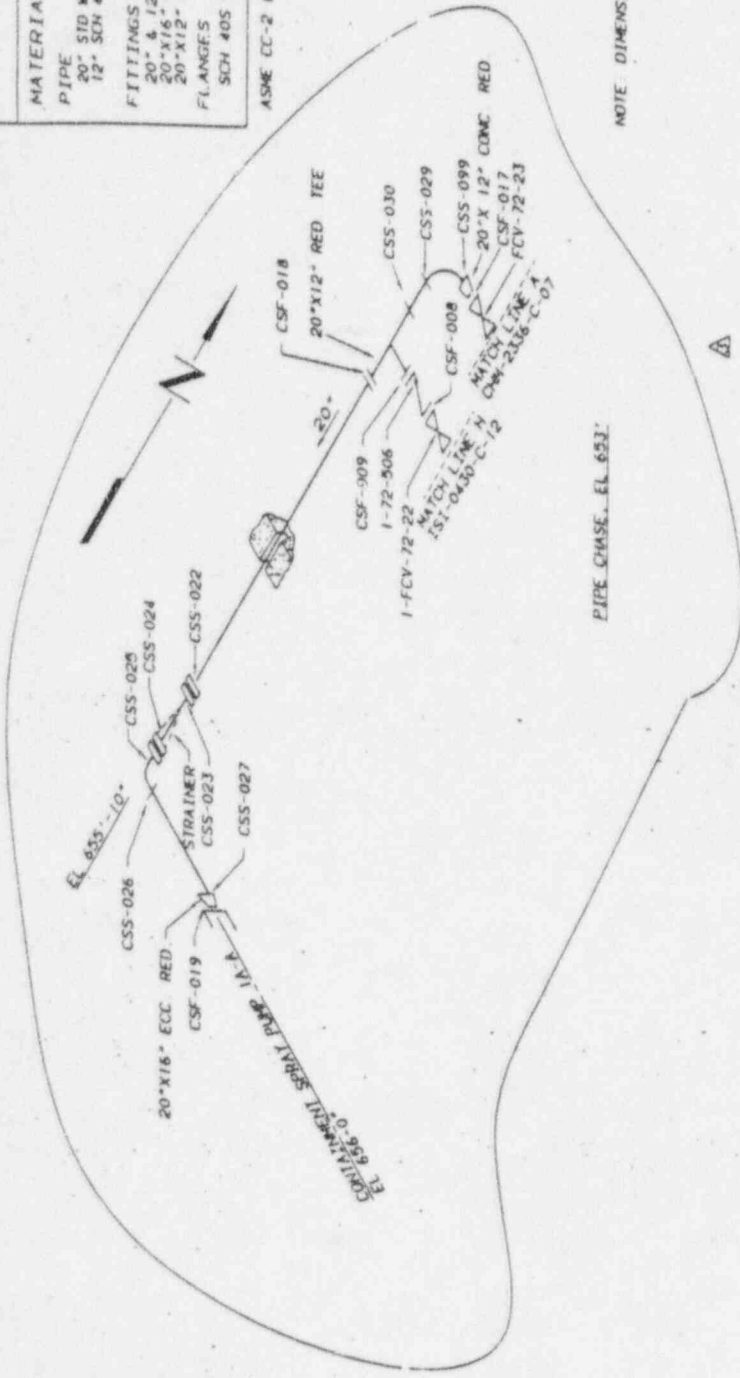
FITTINGS

20" x 12" SCH 40S SA403 WP304W
20" x 16" ECC RED SCH 40S SA403 WP304W
20" x 12" CONE RED SCH 40S SA403 WP304W

FLANGES

SCH 40S SA182 F304

ASME CC-2 (EQUIVALENT)



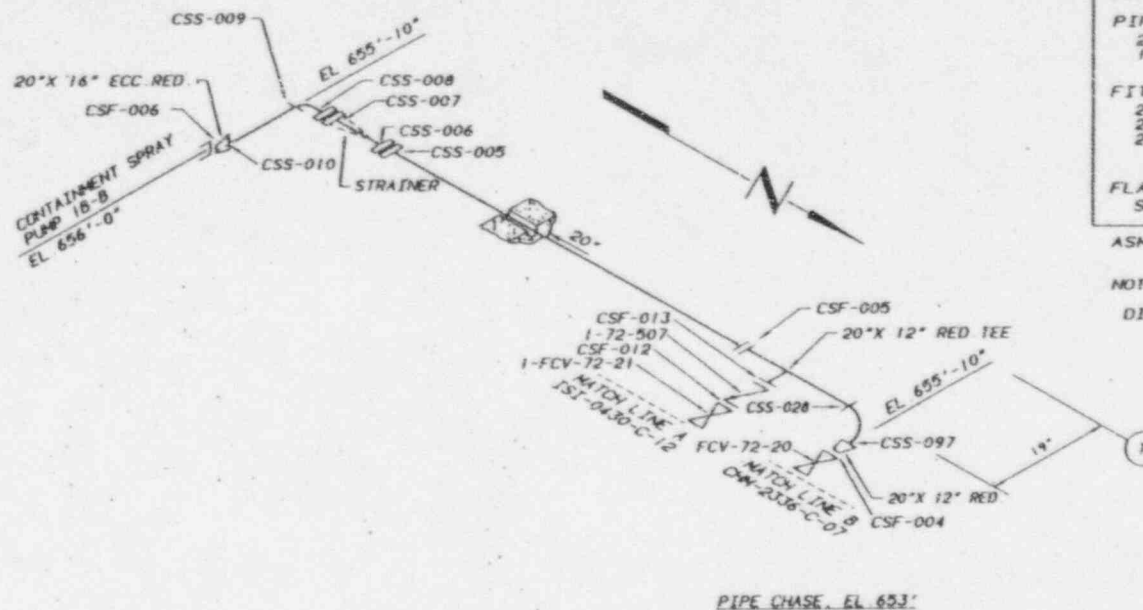
PIPE CHASE, EL. 693

NOTE: DIMENSIONS ARE FOR INFORMATION ONLY

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2	REV	2	DATE	10/16/85	BY	10/16/85
3	REV	3	DATE	10/16/85	BY	10/16/85
4	REV	4	DATE	10/16/85	BY	10/16/85
5	REV	5	DATE	10/16/85	BY	10/16/85
6	REV	6	DATE	10/16/85	BY	10/16/85
7	REV	7	DATE	10/16/85	BY	10/16/85
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99	REV	99	DATE	10/16/85	BY	10/16/85
100	REV	100	DATE	10/16/85	BY	10/16/85

SEOUYAH NUCLEAR PLANT
UNIT 1
CONTAINMENT SPRAY
WELD LOCATIONS

DESIGNED BY	DATE	SCALE	NOT TO SCALE
CHECKED BY	DATE	SCALE	NOT TO SCALE
SUBMITTED BY	DATE	SCALE	NOT TO SCALE
CHM-2422-C-01	03		



REFERENCE DRAWINGS NAVCO A-7203

MATERIAL SPECIFICATIONS

PIPE

20" SA358 TP304 WELDED (0.375 WALL)
12" SCH 40 SA312 TP304 (0.406 WALL)

FITTINGS

20"X12" SA403 WP304
20"X16" ECC RED SCH 40S SA403 WP304W
20"X12" CONC RED SCH 40S SA403 WP304W

FLANGES

SCH 40S SA182 F 304

ASME CC-2 (EQUIVALENT)

NOTE:

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	DESIGNED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUIOIA NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DESIGNED	BYC	DATE	12-16-95	SCALE	NOT TO SCALE
DESIGNED	BYC	APPROVED	HLW	CHD MAINTAINED DRAWING	REV
SUBMITTED	BYC	DATE	12-16-95	CHM-2422-C-02	00

REFERENCE DRAWINGS
NAVCO A-7204

MATERIAL SPECIFICATIONS

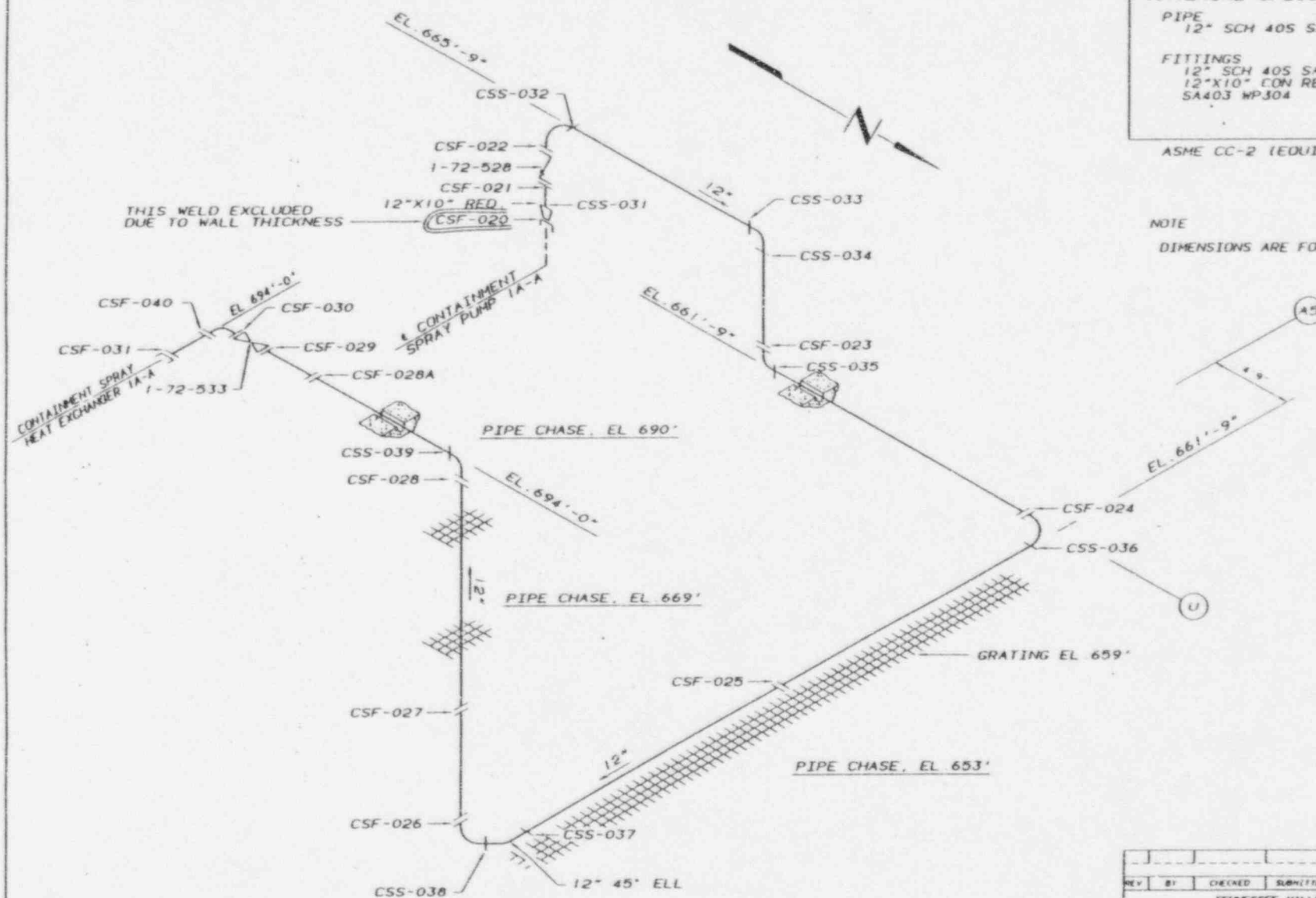
PIPE
12" SCH 40S SA312 TP304 WELDED

FITTINGS
12" SCH 40S SA403 WP304W WELDED
12"x10" CON RED SCH 40S
SA403 WP304

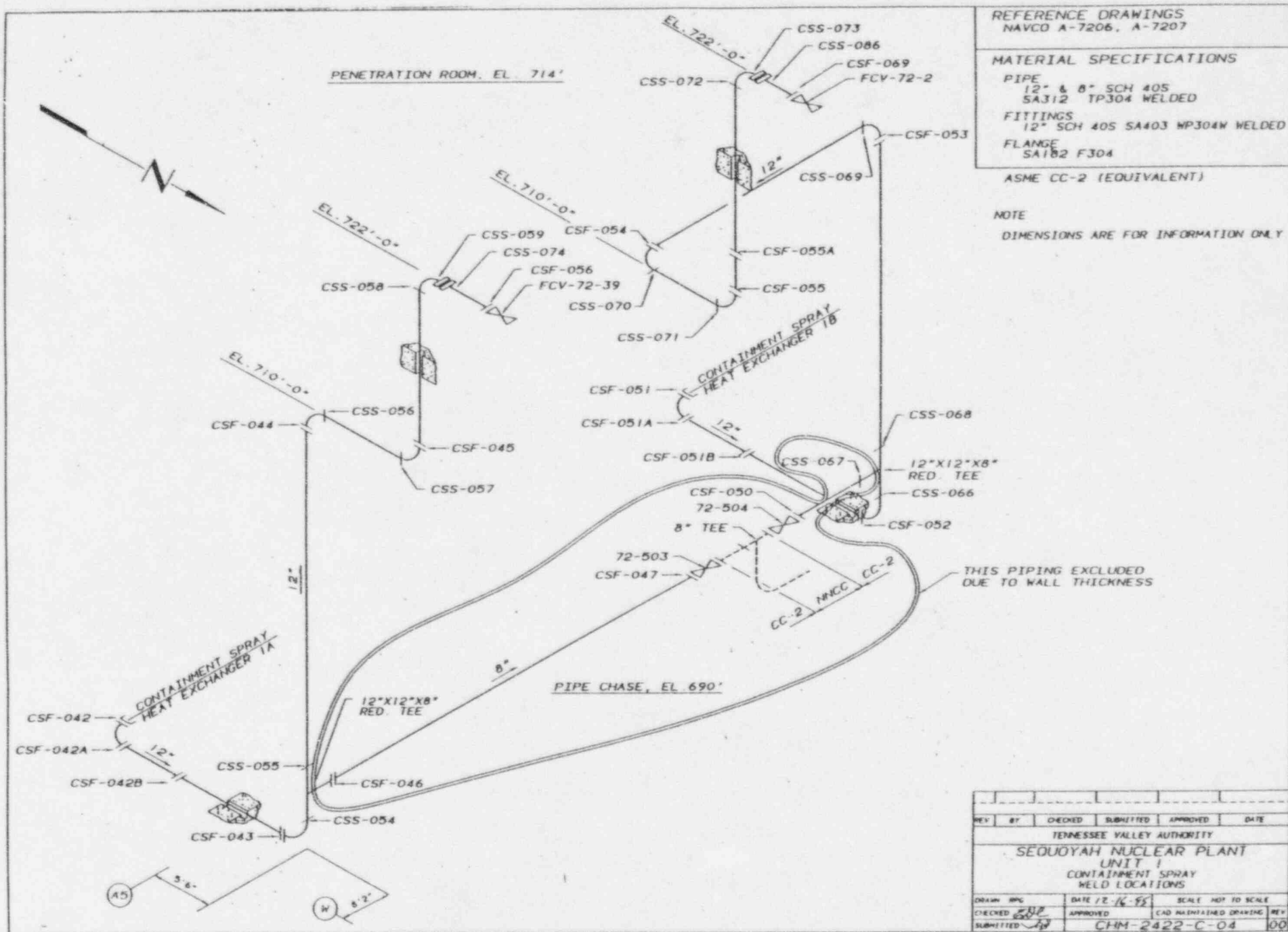
ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY WELD LOCATIONS					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	DATE	12-16-85	APPROVED BY	CAD MAINTAINED DRAWING	REV
SUBMITTED BY	DATE	12-16-85	CHM-2422-C-03	00	



REFERENCE DRAWINGS
NAVCO A-7206, A-7207

MATERIAL SPECIFICATIONS

PIPE
12" & 8" SCH 40S
SA312 TP304 WELDED

FITTINGS
12" SCH 40S SA403 WP304W WELDED

FLANGE
SA182 F304

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DRAWN BY	DATE 12-16-95		SCALE NOT TO SCALE		
CHECKED <i>SWP</i>	APPROVED		CAD MAINTAINED DRAWING		
SUBMITTED <i>SWP</i>	CHM-2422-C-04				

REFERENCE DRAWINGS
NAVCO A-7205

MATERIAL SPECIFICATIONS

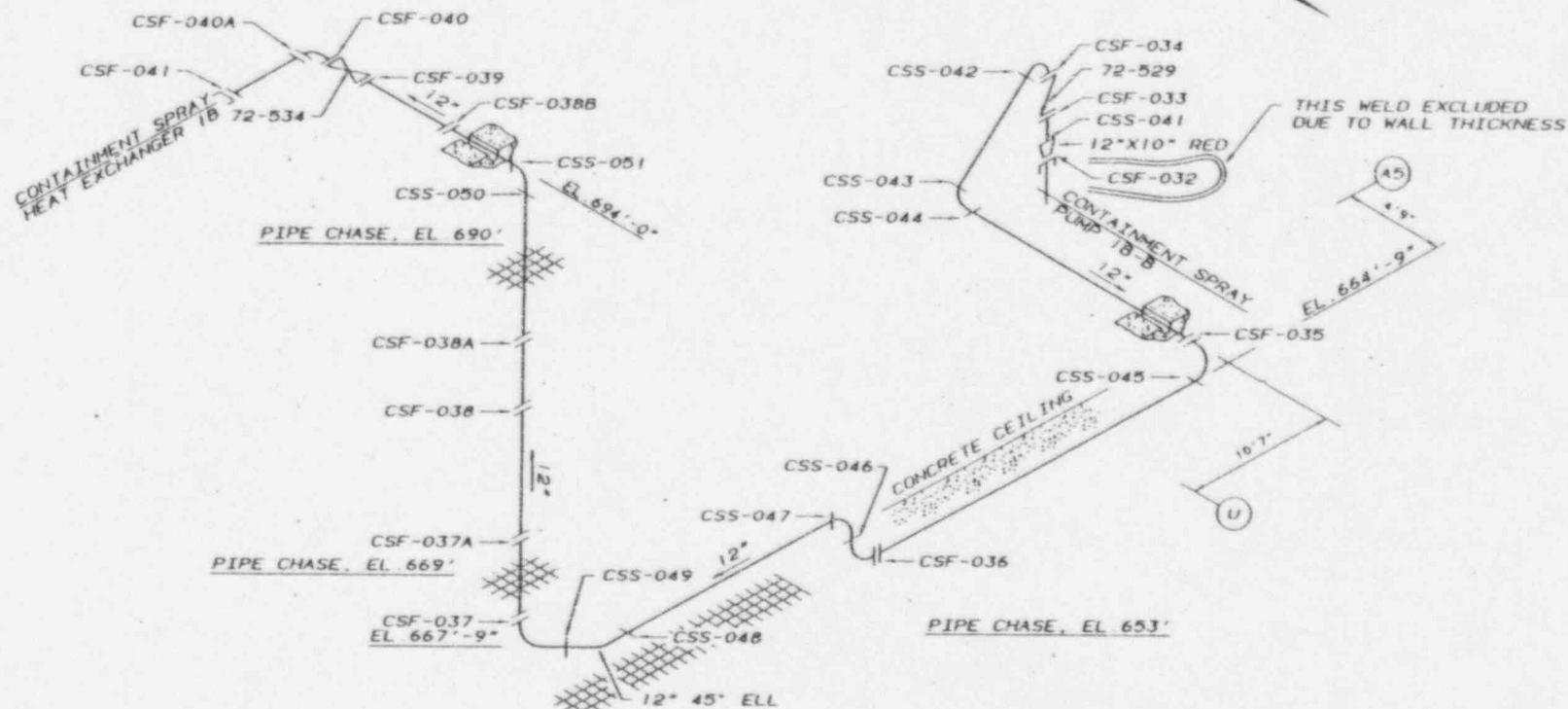
PIPE
12" SCH 40S
SA312 TP304 WELDED

FITTINGS
12" SCH 40S SA403 WP304W WELDED
12"x10" CON RED SA403 WP304W WELDED

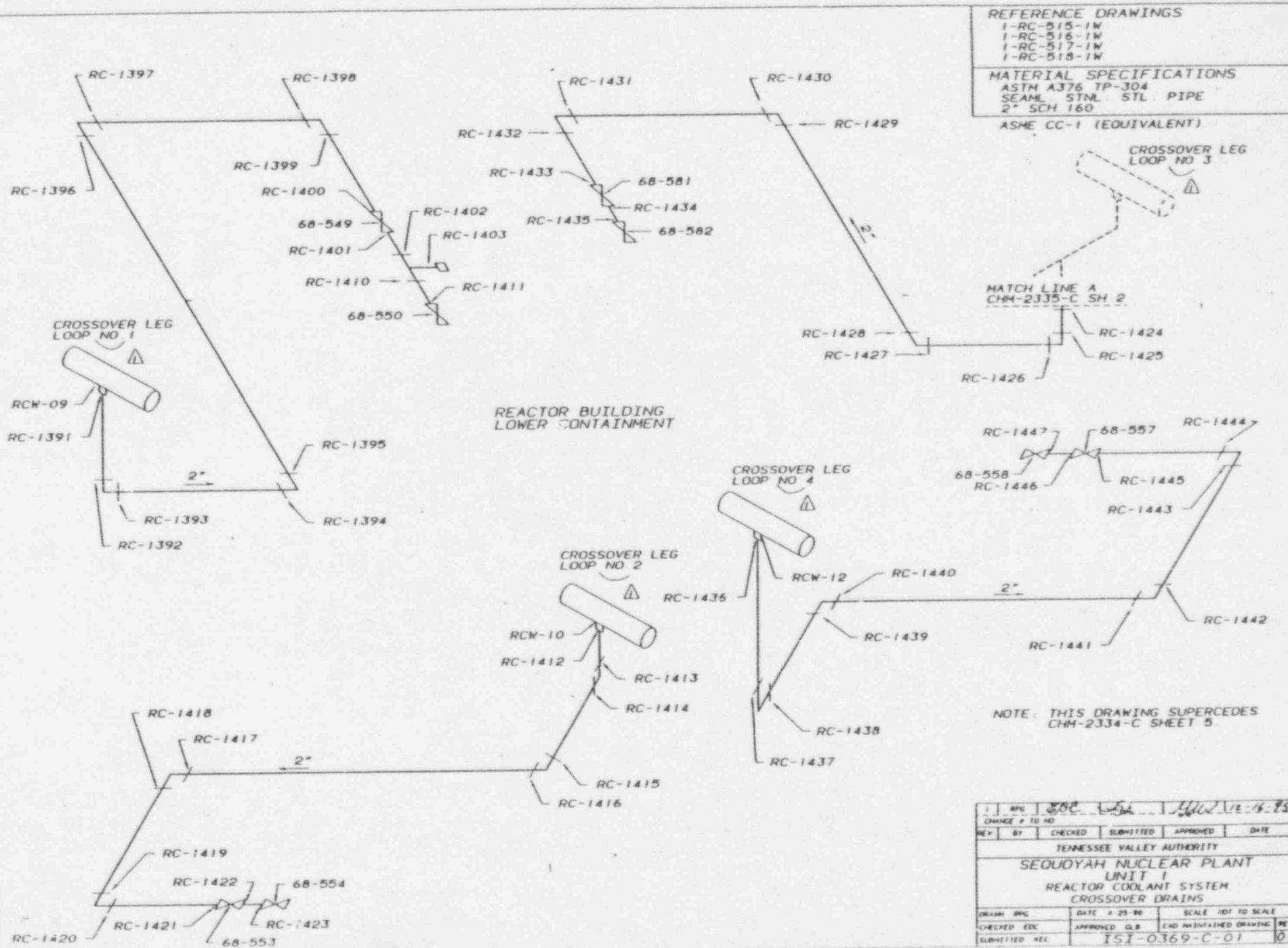
ASME CC-2 (EQUIVALENT)

NOTE

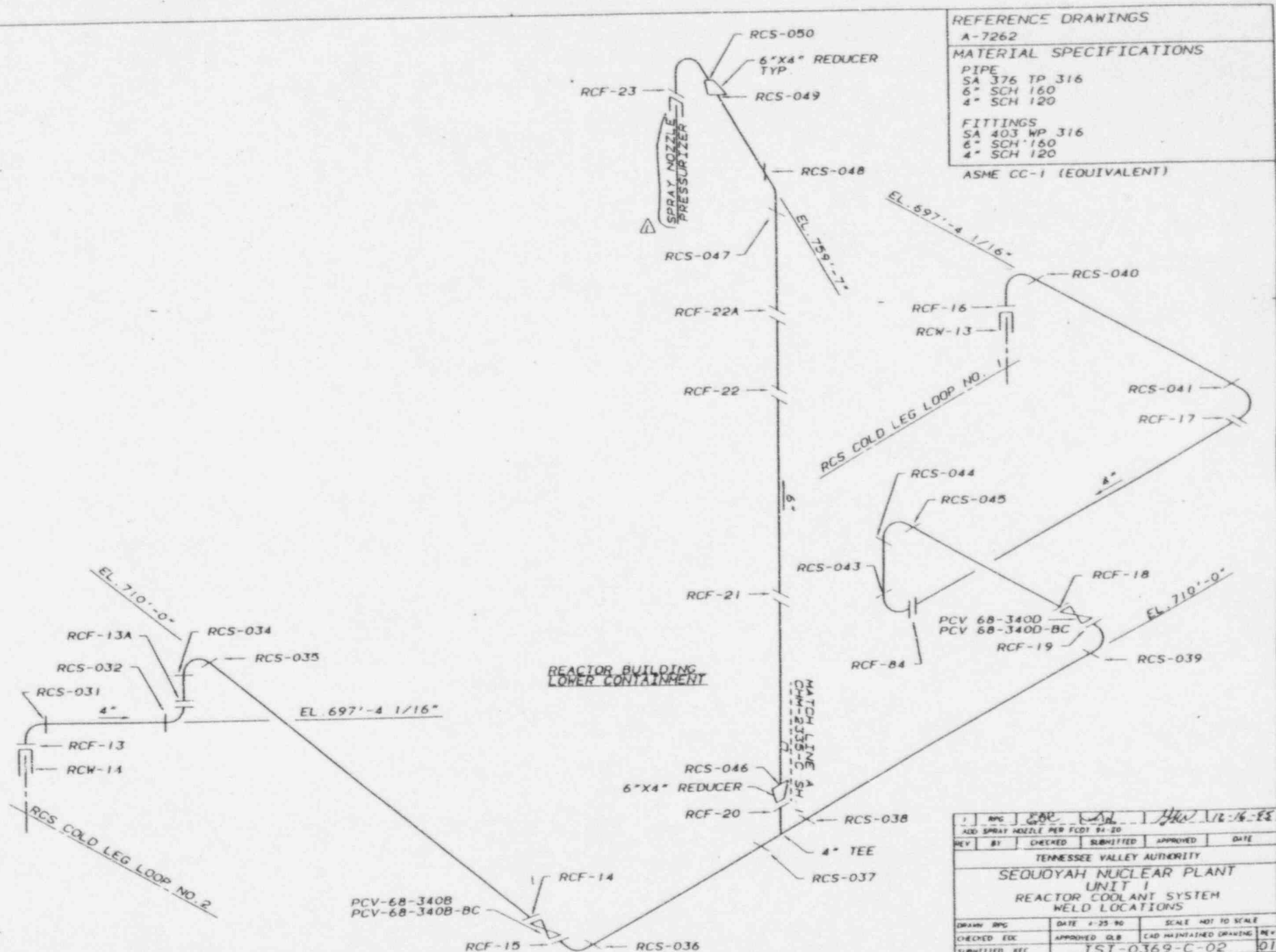
DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DRAWN BY	DATE	12/1/85	SCALE	NOT TO SCALE	
CHECKED	DATE	12/1/85	APPROVED	DATE	12/1/85
SUBMITTED	DATE	12/1/85	LEAD MAINTAINED DRAWING	REV	
CHM-2422-C-05					00



REFERENCE DRAWINGS					
1-RC-515-1W					
1-RC-516-1W					
1-RC-517-1W					
1-RC-518-1W					
MATERIAL SPECIFICATIONS					
ASTM A376 TP-304					
SEAMLESS STAINLESS STEEL PIPE					
2" SCH 160					
ASME CC-1 (EQUIVALENT)					
CROSSOVER LEG LOOP NO 3					
MATCH LINE A					
CHM-2335-C SH 2					
RC-1424					
RC-1425					
RC-1447					
68-557					
RC-1444					
68-558					
RC-1446					
RC-1445					
RC-1443					
RC-1442					
RC-1441					
NOTE: THIS DRAWING SUPERCEDES CHM-2334-C SHEET 5					
1	RC	RC	RC	RC	RC
CHANGE # TO NO					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
REACTOR COOLANT SYSTEM					
CROSSOVER DRAINS					
DRAWN BY	DATE	2-25-80	SCALE	101 TO SCALE	
CHECKED EDC	APPROVED	CLB	END MAINTAINED DRAWING	REV	
SUBMITTED REC	ISI-0369-C-01				01



REFERENCE DRAWINGS

A-7263
A-7264

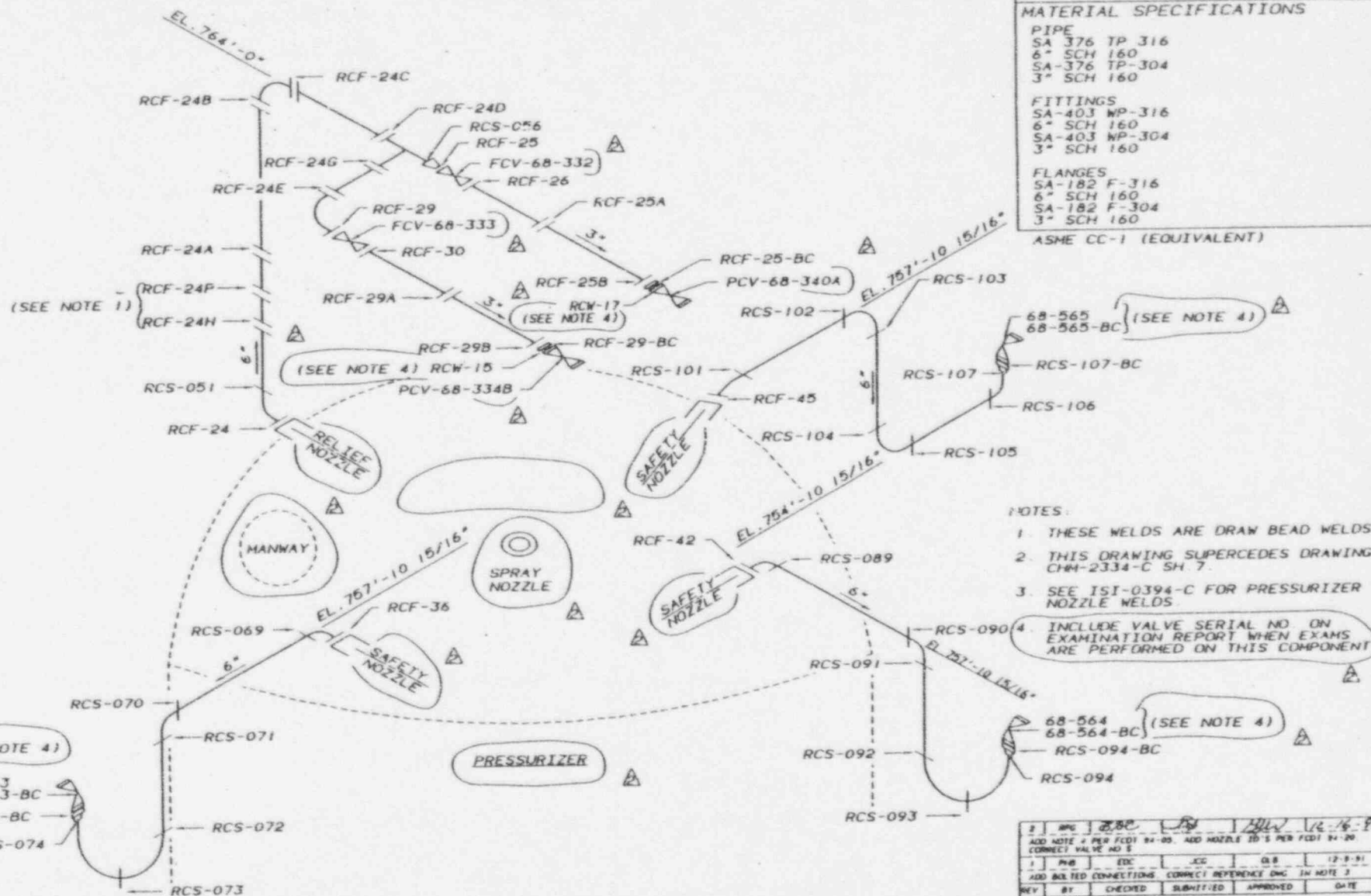
MATERIAL SPECIFICATIONS

PIPE
SA-376 TP-316
6" SCH 160
SA-376 TP-304
3" SCH 160

FITTINGS
SA-403 WP-316
6" SCH 160
SA-403 WP-304
3" SCH 160

FLANGES
SA-182 F-316
6" SCH 160
SA-182 F-304
3" SCH 160

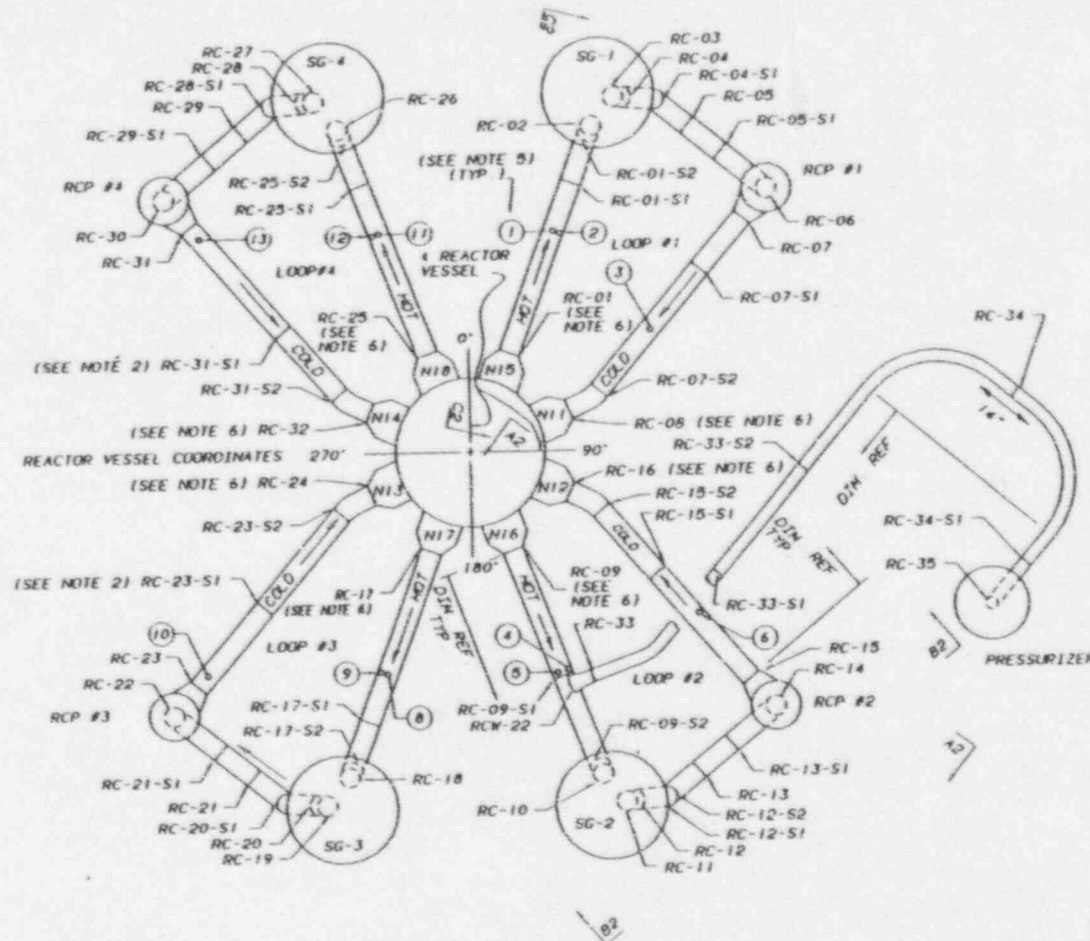
ASME CC-1 (EQUIVALENT)



NOTES:

1. THESE WELDS ARE DRAW BEAD WELDS
2. THIS DRAWING SUPERCEDES DRAWING CHM-2334-C SH. 7.
3. SEE ISI-0394-C FOR PRESSURIZER NOZZLE WELDS.
4. INCLUDE VALVE SERIAL NO. ON EXAMINATION REPORT WHEN EXAMS ARE PERFORMED ON THIS COMPONENT

2	WPC	250	12/14/83
ADD NOTE 1 PER FOOT IN-DS. ADD NOZZLE TO 5 PER FOOT IN-DS			
CORRECT VALVE NO. 5			
1	WPC	EDC	12-9-81
ADD BULGED CONNECTIONS. CORRECT REFERENCE ONE IN NOTE 2			
REV	BY	CHECKED	DATE
1	WPC	EDC	12-9-81
TENNESSEE VALLEY AUTHORITY			
SECOYAH NUCLEAR PLANT			
UNIT 1			
REACTOR COOLANT SYSTEM			
WELD LOCATIONS			
DRAWN WPC	DATE 4-23-80	SCALE NOT TO SCALE	
CHECKED EDC	APPROVED GLB	CAD MAINTAINED DRAWING	REV
SUBMITTED REC	ISI-0369-C-03		102



REFERENCE DRAWINGS

47N304-1
47N465-1
1-RC-001, 1-RC-002
1-RC-003, 1-RC-004

MATERIAL SPECIFICATIONS

PRESSURIZER SURGE LINE
14" SCH 160 A-376

HOT LEG
29" ID, A-351 CF8H, N W 2 84"

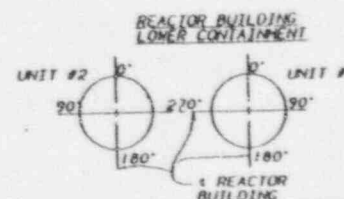
CROSSOVER LEG
31" ID, A-351 CF8H, N W 2 99"

COLD LEG
27 5" ID, A-351 CF8H, N W 2 69"

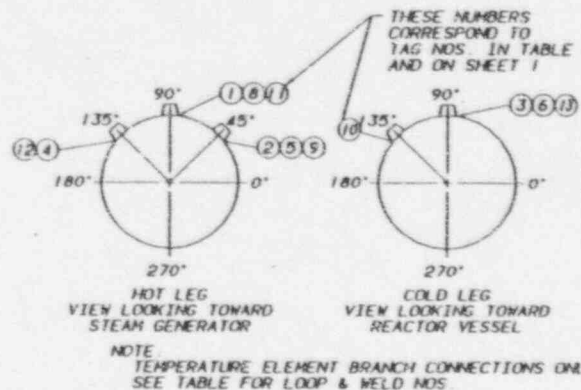
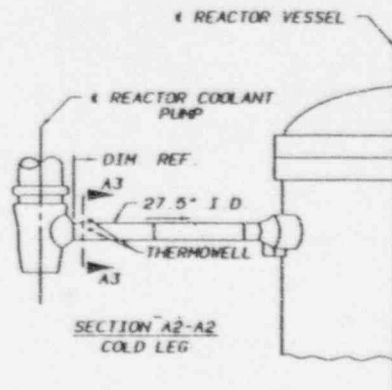
ASME CC-1 (EQUIVALENT)

NOTES

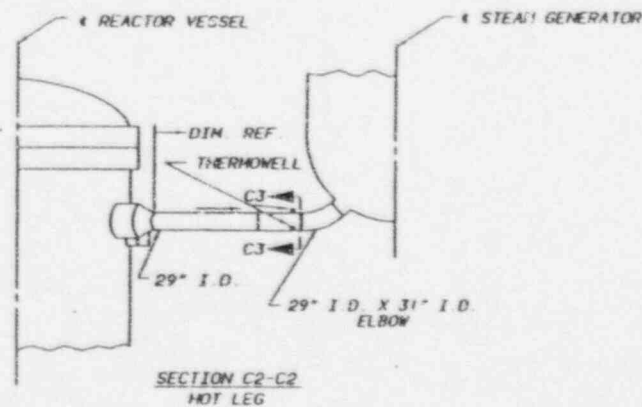
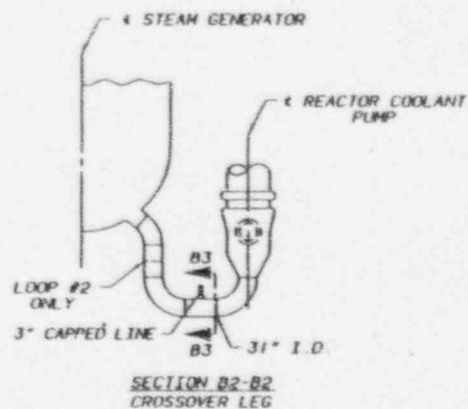
- 1 THIS DWG REPLACED CHN-2333-C
- 2 INACCESSIBLE
- 3 REACTOR VESSEL NOZZLE TO SAFE END WELD ID'S ARE SHOWN ON RV DWG CHN-2343-C THESE ARE ASME SECTION XI EXAM CATEGORY B-F, DISSIMILAR METAL WELDS
- 4 STEAM GENERATOR NOZZLE TO SAFE END WELD ID'S ARE SHOWN ON S/G DWG ISI-0399-C THESE ARE ASME SECTION XI EXAM CATEGORY B-F, DISSIMILAR METAL WELDS
- 5 FOR TEMPERATURE ELEMENTS SEE SHEET 2, TAG 1 THRU 13
- 6 THE EXAMINATION OF THESE WELDS IS INCLUDED IN THE EXAMINATION OF THE NOZZLE TO SAFE END WELD



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
REACTOR COOLANT PIPING					
WELD LOCATIONS					
DESIGN BY	DATE 12-18-92		SCALE NOT TO SCALE		
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>		LEAD MAINTAINED DRAWING		
SUBMITTED <i>[Signature]</i>	ISI-0402-C-01 00				



SEE SHEET 1 FOR TAG NO. & LOCATION					
TAG NO.	LEG LOOP	BRANCH WELD NUMBER	DIM. TO REF.	REF. ANGLE	
1	HL-1	1-TE-68-001	9'-9"	90°	
2	HL-1	1-TE-68-001C	9'-9"	45°	
3	CL-1	1-TE-68-018	8'-3"	90°	
4	HL-2	1-TE-68-024	9'-5"	135°	
5	HL-2	1-TE-68-024C	9'-5"	45°	
6	CL-2	1-TE-68-041	6'-6"	90°	
8	HL-3	1-TE-68-043C	9'-0"	90°	
9	HL-3	1-TE-68-043	9'-0"	45°	
10	CL-3	1-TE-68-060	1'-0"	135°	
11	HL-4	1-TE-68-065	8'-0"	90°	
12	HL-4	1-TE-68-065C	8'-0"	135°	
13	CL-4	1-TE-68-083	3'-3"	90°	
SIZE					
OD=2 1/2"					
ID=0.875"					

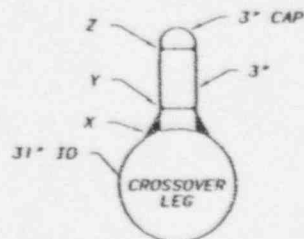


NOTES

- EACH OF THESE BRANCH PIPE CONNECTIONS 2 INCHES NPS AND SMALLER HAS A SPECIAL BOSS. THIS BOSS IS USED WITH TEMPERATURE ELEMENTS WITH AN OUTSIDE DIAMETER (OD) OF 0.875 INCH. THE SPECIAL BOSS HAS AN OD=2 1/2 INCHES ± 0.01 INCH WITH AN INSIDE DIAMETER (ID) OF 0.9 INCH REAMED TO PROVIDE 0.015 INCH - 0.020 INCH CLEARANCE WITH 0.010 INCH MISALIGNMENT ASSUMING THE WORST POSSIBLE CASE (THE WELD TO PIPE FAILS). THE LARGEST HOLE IS THAT FOR A 2-INCH PIPE (ANY SCHEDULE) THEREFORE, IT SHALL BE TREATED AS A 2-INCH BRANCH PIPE FOR ASME SECTION XI PURPOSES.

2 THIS DWG REPLACES CHN-2333-B

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
REACTOR COOLANT PIPING					
WELD LOCATIONS					
DESIGN	DATE	10-16-93	SCALE	NOT TO SCALE	
CHECKED	DATE	10-16-93	APPROVED	CAD MAINTAINED	DATE
SUBMITTED	DATE	10-16-93	APPROVED	DATE	
ISI-0482-C-02 00					



SECTION B3-B3

MATERIAL

PIPING 3" SCH. 160 ASTM A-376 TP-304
CAP 3" SCH. 160 SA-403, WP316

WELD X WELD Y WELD Z

LOOP 1	RCW-01	RCF-55	RCS-055A
LOOP 2	RCW-03	RCF-69	RCS-069A
LOOP 3	RCW-05	RCF-76	RCS-076A
LOOP 4	RCW-07	RCF-83	RCS-083A

REFERENCE DRAWINGS

2001E75 A-7281 (LOOPS 2,3,4)
5365C17 A-7280 (LOOP 1)

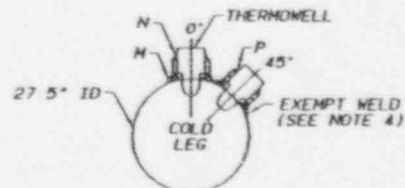
REFERENCE DRAWINGS

1-RC-001 (LOOP 2)
1-RC-002 (LOOP 3)
1-RC-003 (LOOP 4)
1-RC-004 (LOOP 1)

ASME CC-1 (EQUIVALENT)

NOTES:

1. SEE SHEET 2 FOR TYPICAL LOCATION
2. WELDS A, B, C, N AND P ARE CONSIDERED SOCKET WELDS (> 1 NPS)
3. WELDS M AND X ARE CONSIDERED BRANCH CONNECTION WELDS
4. BRANCH CONNECTION WELD, IS EXEMPT (BRANCH CONNECTION HOLE SIZE IS < 1 NPS, REF INA-7400)
5. WELD Z, RCS-055A, RCS-069A, RCS-076A AND RCS-083A ARE WESTINGHOUSE WELDS MADE IN FIELD
6. WELDS A, B, C, N, P, & Z WERE MADE BY WESTINGHOUSE PER WP#1444-03 DURING CYCLE 4 OUTAGE
7. ALL THE WELDS ON THIS SHEET ARE TO BE CLASSIFIED RCS SYSTEM FOR PRISM IDENTIFIERS
8. THIS DWG REPLACED CHN-2333-B



SECTION A3-A3

(VIEW LOOKING TOWARD THE R_x VESSEL)

MATERIAL

PIPING 2" SCH. 160 SA-182 TYPE 316

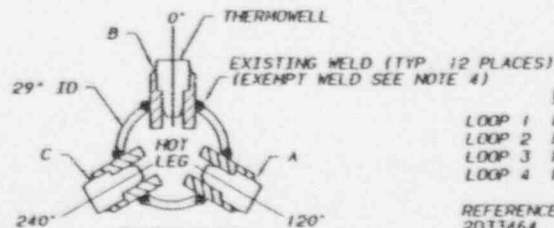
NOTE: WELD M=2"

WELD M WELD N WELD P

LOOP 1	RCW-02	RC-78	RC-77
LOOP 2	RCW-04	RC-82	RC-60
LOOP 3	RCW-06	RC-72	RC-71
LOOP 4	RCW-08	RC-66	RC-65

REFERENCE DRAWINGS

1853E66
1863E26
5365C47



SECTION C3-C3

(VIEW LOOKING TOWARD THE R_x VESSEL)

WELD A WELD B WELD C

LOOP 1	RC-79	RC-80	RC-81
LOOP 2	RC-61	RC-62	RC-63
LOOP 3	RC-73	RC-74	RC-75
LOOP 4	RC-67	RC-68	RC-69

REFERENCE DRAWINGS

2D33464

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
REACTOR COOLANT PIPING					
WELD LOCATIONS (SEE NOTE 7)					
DRAWN BY	DATE	12-16-88	SCALE	NOT TO SCALE	
CHECKED	APPROVED	ISI	CAD MAINTAINED DRAWING	REV	
SUBMITTED	ISI	0482-C-03			100

REFERENCE DRAWINGS

1-RC-001 (LOOP 2)
 1-RC-002 (LOOP 3)
 1-RC-003 (LOOP 4)
 1-RC-004 (LOOP 1)

LOOP 1

ISI NO.	TVA NO.
RC-01	1-RC-1
RC-01-S1	1-RC-1S
RC-01-S2	1-RC-2S
RC-02	1-RC-2
RC-03	1-RC-3
RC-04	1-RC-4
RC-04-S1	1-RC-3S
RC-05	1-RC-5
RC-05-S1	1-RC-4S
RC-06	1-RC-6
RC-07	1-RC-7
RC-07-S1	1-RC-5S
RC-07-S2	1-RC-6S
RC-08	1-RC-8

LOOP 3

ISI NO.	TVA NO.
RC-17	1-RC-17
RC-17-S1	1-RC-14S
RC-17-S2	1-RC-15S
RC-18	1-RC-18
RC-19	1-RC-19
RC-20	1-RC-20
RC-20-S1	1-RC-16S
RC-21	1-RC-21
RC-21-S1	1-RC-17S
RC-22	1-RC-22
RC-23	1-RC-23
RC-23-S1	1-RC-18S
RC-23-S2	1-RC-19S
RC-24	1-RC-24

LOOP 2

ISI NO.	TVA NO.
RC-09	1-RC-9
RC-09-S1	1-RC-7S
RCW-22	1-RC-3161S
RC-33	1-RC-33
RC-33-S1	1-RC-26S
RC-33-S2	1-RC-27S
RC-34	1-RC-34
RC-34-S1	1-RC-28S
RC-35	1-RC-35
RC-09-S2	1-RC-8S
RC-10	1-RC-10
RC-11	1-RC-11
RC-12	1-RC-12
RC-12-S1	1-RC-9S
RC-12-S2	1-RC-10S
RC-13	1-RC-13
RC-13-S1	1-RC-11S
RC-14	1-RC-14
RC-15	1-RC-15
RC-15-S1	1-RC-12S
RC-15-S2	1-RC-13S
RC-16	1-RC-16

LOOP 4

ISI NO.	TVA NO.
RC-25	1-RC-25
RC-25-S1	1-RC-20S
RC-25-S2	1-RC-21S
RC-26	1-RC-26
RC-27	1-RC-27
RC-28	1-RC-28
RC-28-S1	1-RC-22S
RC-29	1-RC-29
RC-29-S1	1-RC-23S
RC-30	1-RC-30
RC-31	1-RC-31
RC-31-S1	1-RC-24S
RC-31-S2	1-RC-25S
RC-32	1-RC-32

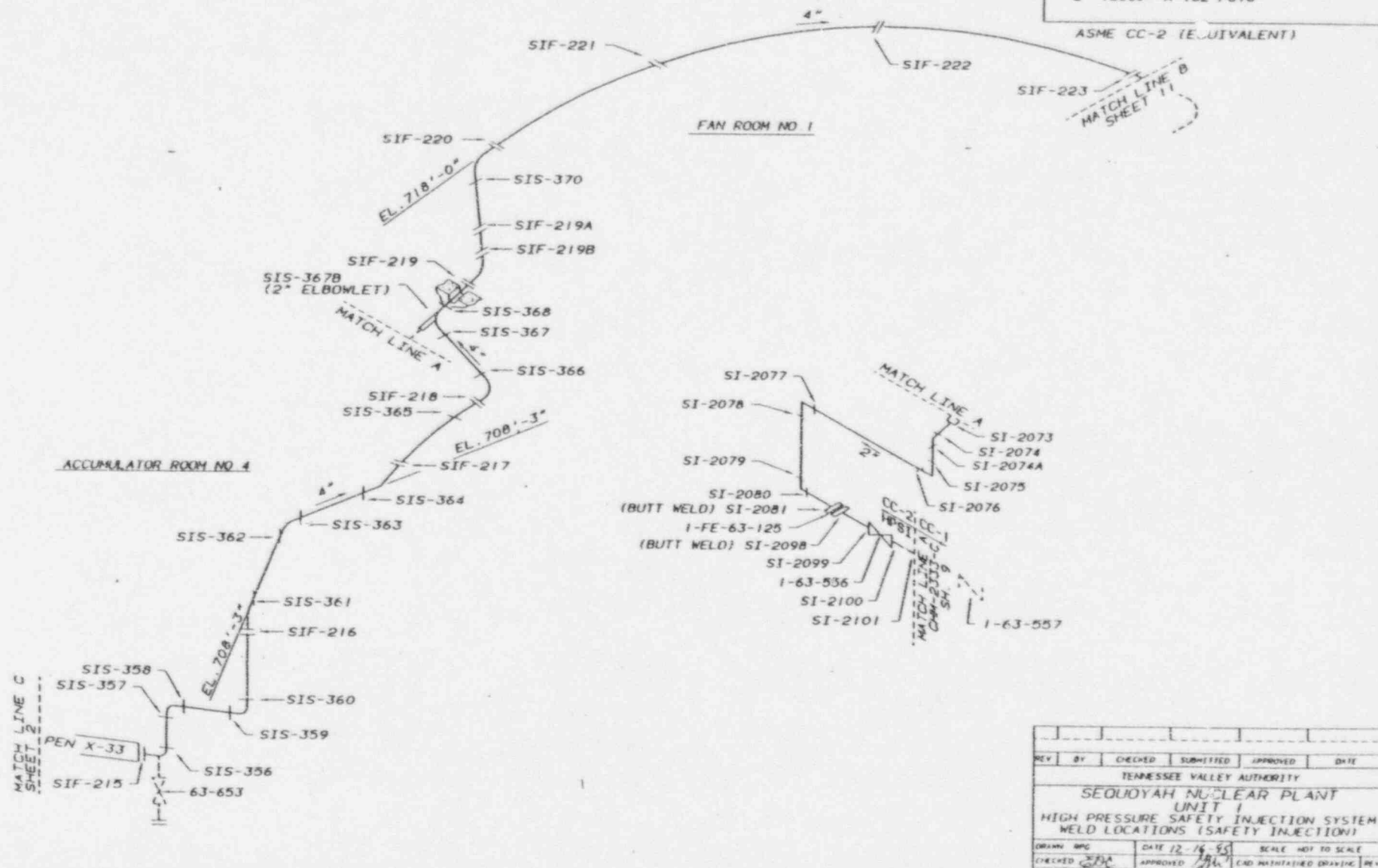
REACTOR COOLANT CROSS REFERENCE WELD TABLE

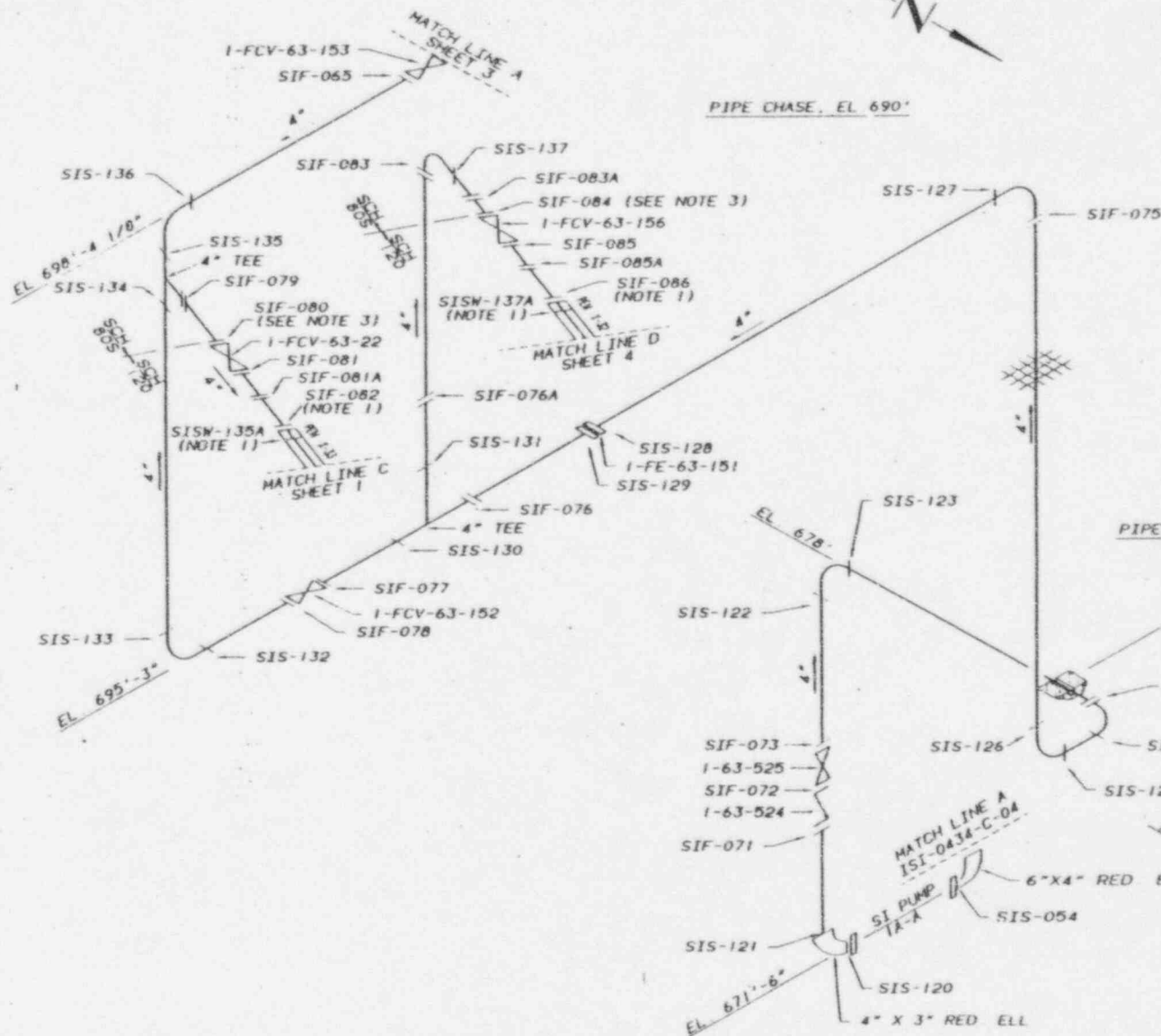
NOTE:
 1. THIS DWG REPLACED CHM-2333-B

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
REACTOR COOLANT PIPING					
WELD LOCATIONS					
DRAWN BY	DATE	12-16-58	SCALE	NOT TO SCALE	
CHECKED	APPROVED	ISI-0482-C-04	100		
SUBMITTED					

NAVCO A-7260
1-SI-211-1W

PIPE
2" A-376 TP304 SCH. 160 S/S
4" A-376 TP316 SCH. 120 S/S
FITTING
2" 6000# A-182 F304
4" SCH. 120 A-403 TP316
2" END SCH 160 A-182 F304
FLANGE
2" 1500# A-182 F316





REFERENCE DRAWINGS
 NAVCO A-7147
 47W331-1
 CONTRACT 92615 DNG 74229-05 0

MATERIAL SPECIFICATIONS
 PIPE
 4" SCH 80S A-312 TP 304
 4" SCH 120 A-376 TP 304
 FITTINGS
 4" SCH 80S A-403 WP 304
 4"X3" RED ELL SCH 80S A-403 WP304
 6"X4" RED ELL SCH 40S A-403 WP304
 FLANGE
 3" SCH 80S A-182 F304
 4" SCH 80S A-182 F304
 ASME CC-2 (EQUIVALENT)

- NOTES:
- 1 WELDS SIF-082, SIF-086, SIF-135A AND SIF-137A ARE PIPE TO FLUED HEAD WELDS
 - 2 DIMENSIONS ARE FOR INFORMATION ONLY
 - 3 4" SCH 80S PIPE END BUILT UP TO SCH 120

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN: RMC	DATE: 12-16-95	SCALE: NOT TO SCALE			
CHECKED: JAC	APPROVED: JAC	CAD MAINTAINED DRAWING			REV
SUBMITTED: JAC	ISI-0430-C-02			00	

REFERENCE DRAWINGS
 NAVCO A-7147
 47W331-1
 CONTRACT 92615 DWG 74229-D5 0

MATERIAL SPECIFICATIONS
 PIPE

4" SCH. 80S A-312 TP304
 4" SCH. 120 A-376 TP316

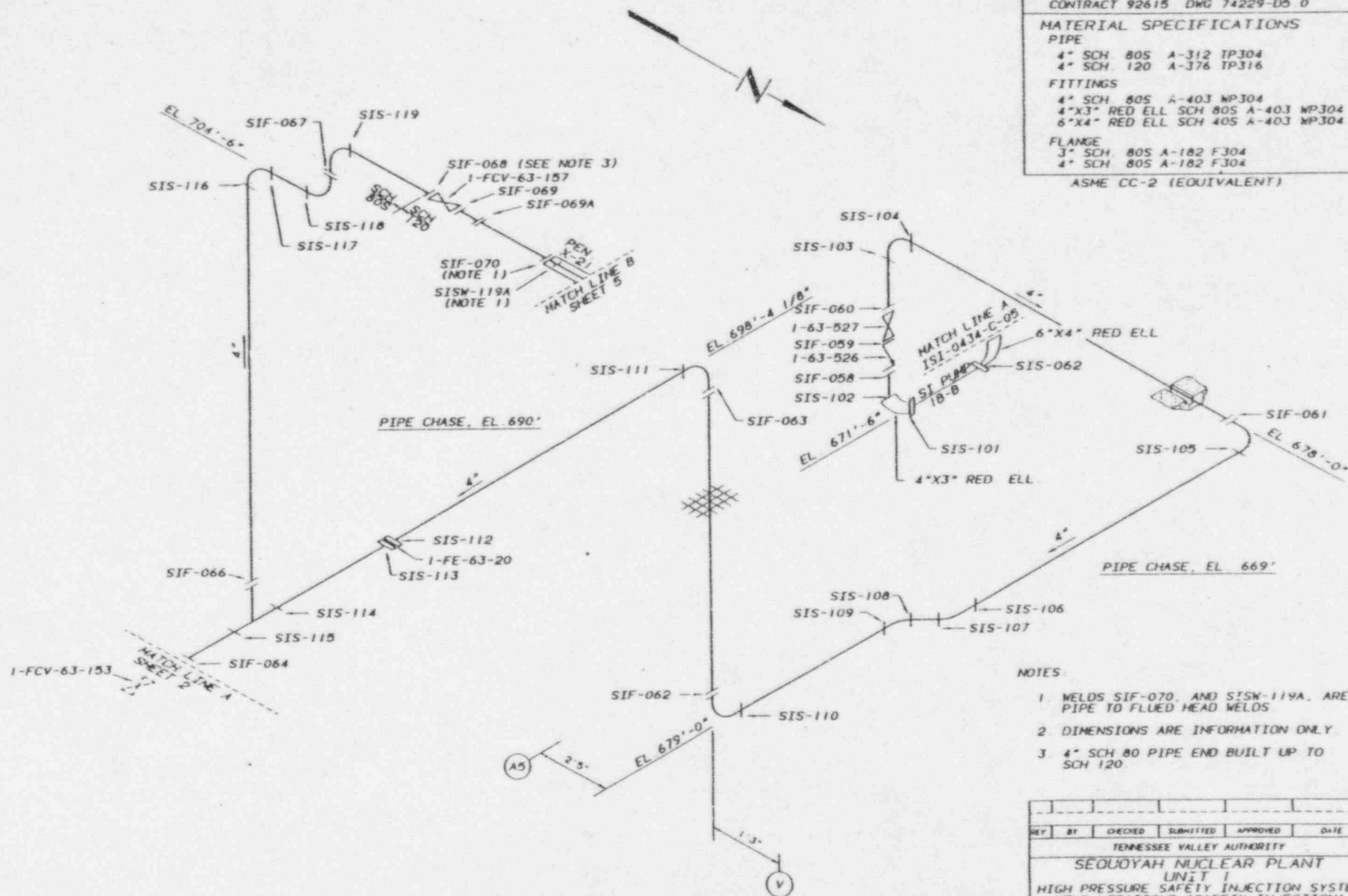
FITTINGS

4" SCH. 80S A-403 WP304
 4"x3" RED ELL SCH. 80S A-403 WP304
 6"x4" RED ELL SCH. 40S A-403 WP304

FLANGE

3" SCH. 80S A-182 F304
 4" SCH. 80S A-182 F304

ASME CC-2 (EQUIVALENT)



NOTES:

1. WELDS SIF-070, AND SISW-119A, ARE PIPE TO FLUED HEAD WELDS
2. DIMENSIONS ARE INFORMATION ONLY
3. 4" SCH. 80 PIPE END BUILT UP TO SCH. 120

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-95	SCALE NOT TO SCALE		
CHECKED <i>MLW</i>	APPROVED <i>MLW</i>	CAD MAINTAINED DRAWING			
SUBMITTED <i>MLW</i>	ISI-0430-C-03		REV 00		

REFERENCE DRAWINGS

NAVED A-7259

MATERIAL SPECIFICATIONS

PIPE 4" SCH 120 A-376 TP316

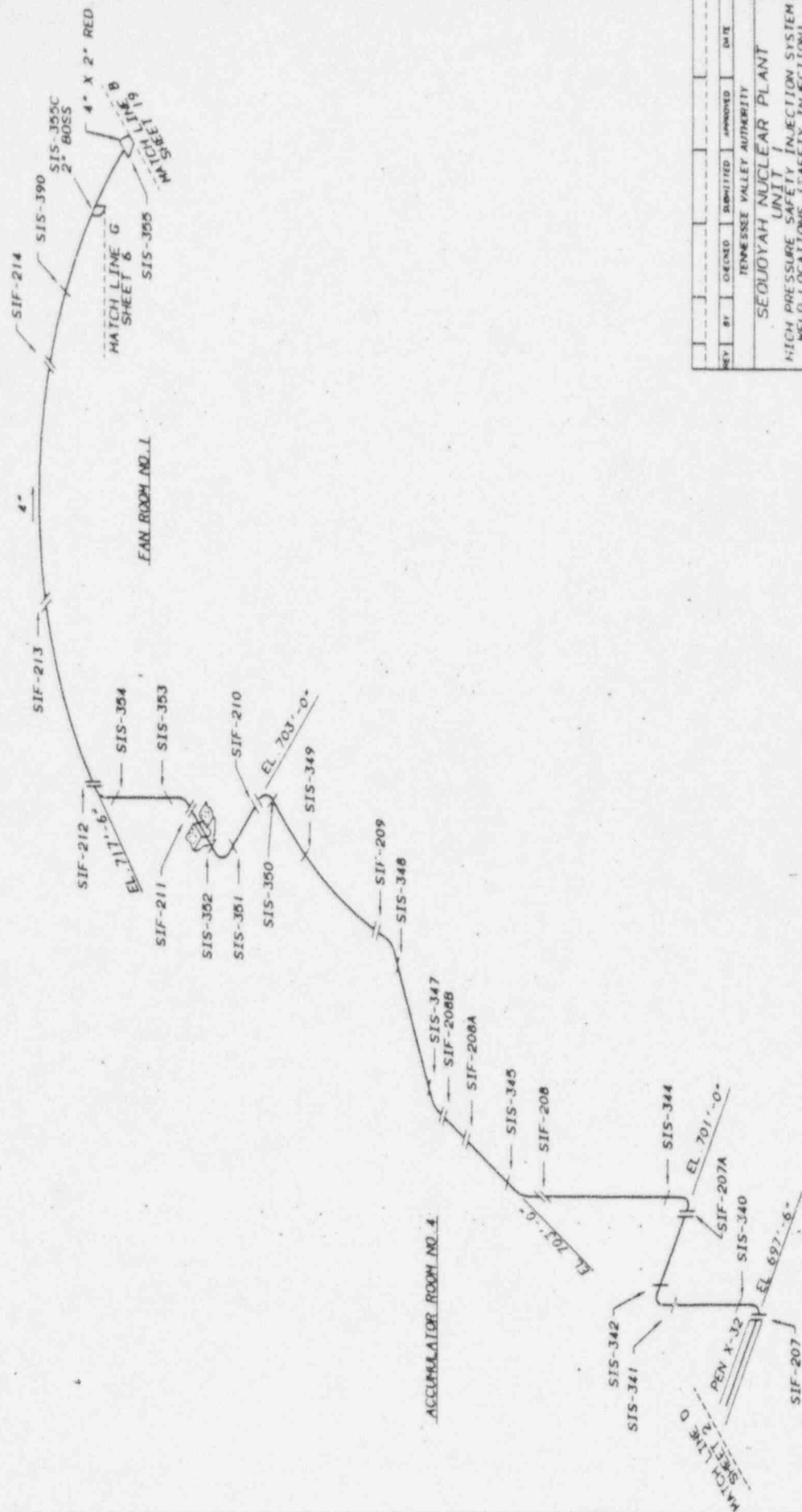
FITTING

2" 6000# A-182 F304

4" SCH 120 A-403 TP316

4" SCH 120 X 2" SCH 160 RED A-403 TP316

ASME CC-2 (EQUIVALENT)



REV	BY	DATE	DESCRIPTION	APPROVED	DATE
1	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
2	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
3	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
4	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
5	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
6	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
7	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
8	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
9	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
10	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
11	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
12	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
13	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
14	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
15	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
16	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
17	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
18	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
19	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
20	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
21	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
22	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
23	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
24	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
25	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
26	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
27	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
28	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
29	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
30	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
31	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
32	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
33	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
34	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
35	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
36	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
37	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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40	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
41	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
42	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
43	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
44	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
45	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
46	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
47	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
48	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
49	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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51	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
52	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
53	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
54	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
55	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
56	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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58	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
59	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
60	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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64	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
65	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
66	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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68	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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71	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
72	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
73	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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75	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
76	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
77	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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79	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
80	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
81	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
82	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
83	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
84	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
85	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
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87	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
88	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
89	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
90	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
91	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
92	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
93	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
94	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
95	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
96	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
97	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
98	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
99	ISI	12/1/75	ISSUED FOR CONSTRUCTION		
100	ISI	12/1/75	ISSUED FOR CONSTRUCTION		

SEOUYAH NUCLEAR PLANT

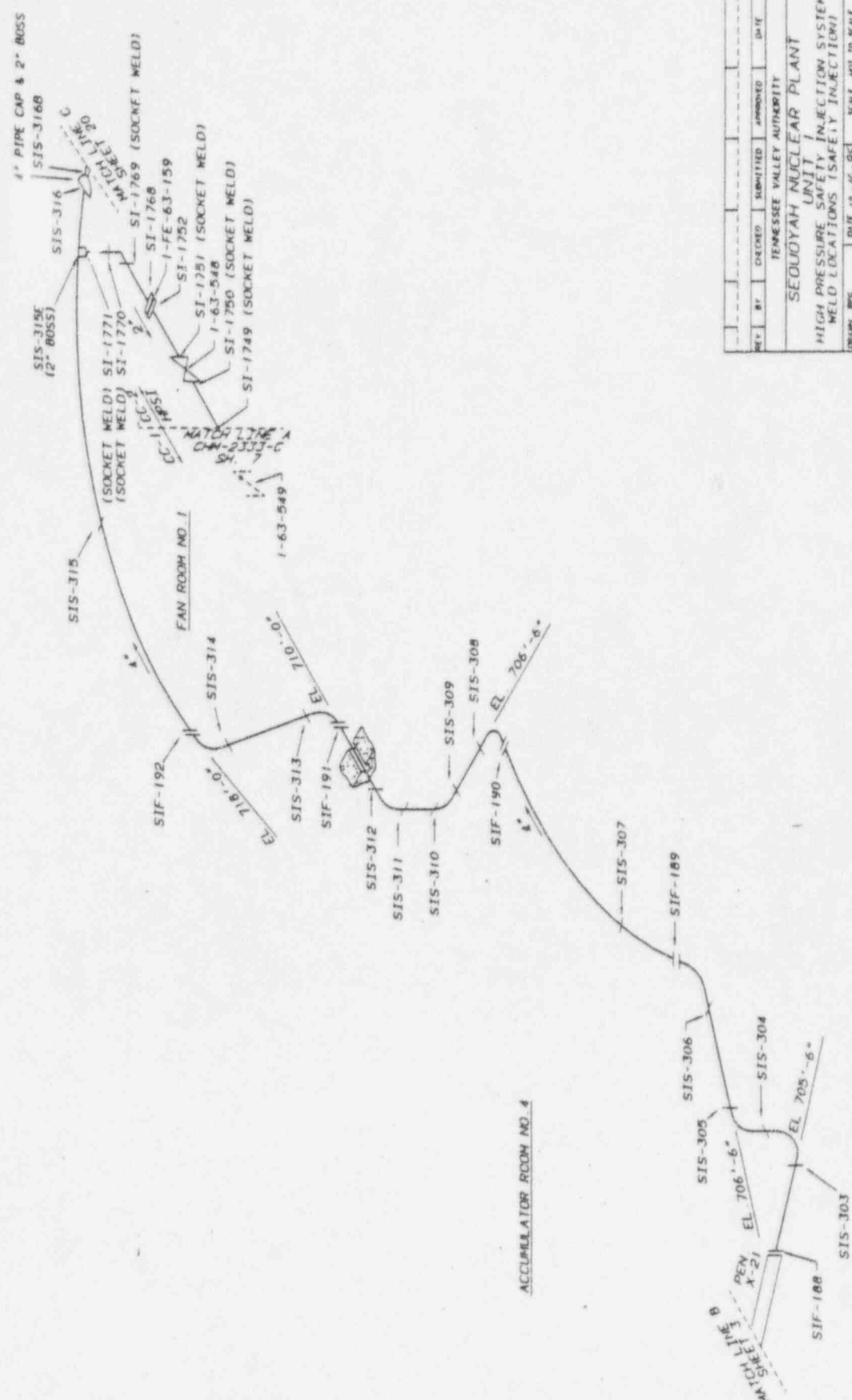
UNIT 1
HIGH PRESSURE SAFETY INJECTION SYSTEM
WELD LOCATIONS (SAFETY INJECTION)

DATE 12/1/75
SCALE 1/2" = 1'-0"
DRAWN BY ISI
CHECKED BY ISI
APPROVED BY ISI
SUBMITTED BY ISI
ISI-0430-C-04

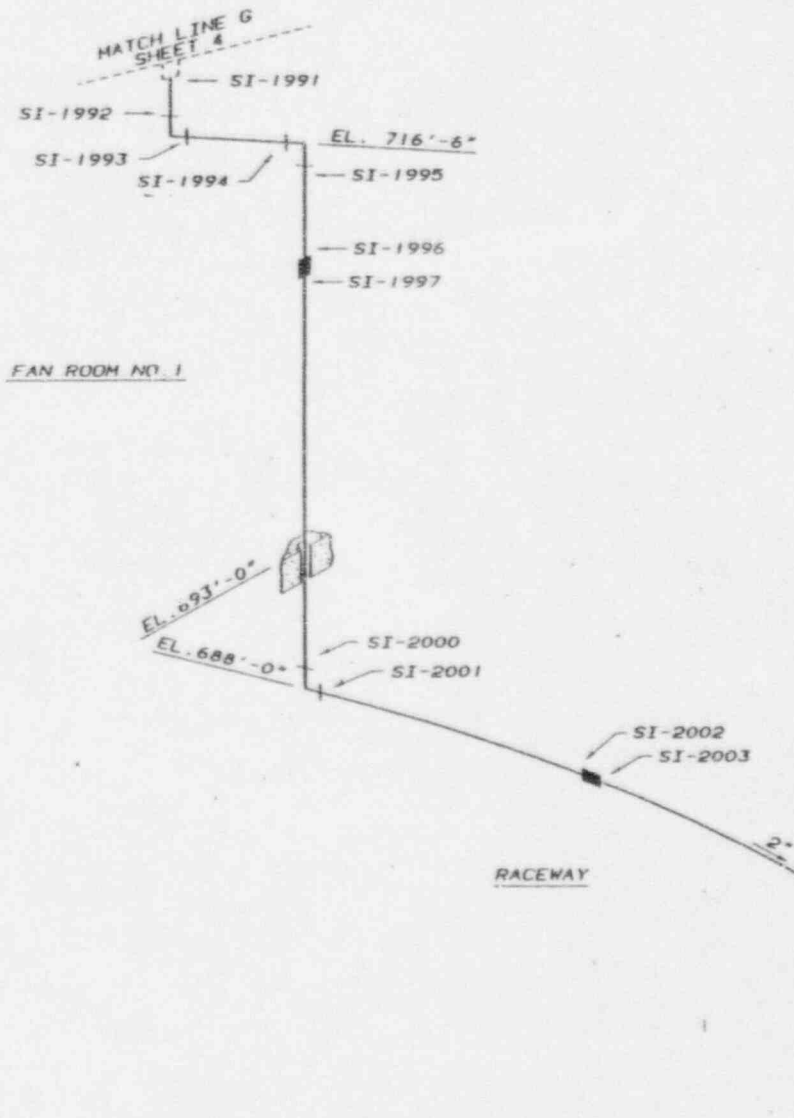
REFERENCE DRAWINGS:
NAVED A-7257
I-SI-504-1W

MATERIAL SPECIFICATIONS:

PIPE
4" SCH 120 A376 TP316
2" SCH 160 A376 TP304
FITTING
4" SCH 120 A-403 TP316
4" SCH 120 A-403 TP316 PIPE CAP
2" SCH 160 A-182 F304 BOSS
ASME, CC-2 (EQUIVALENCE)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRWN	BY	CHKD	DATE	SCALE	NOT TO SCALE
83A			12-16-95		
APPROVED					
SUBMITTED					100
					ISI-0430-C-05



REFERENCE DRAWINGS
1-SI-509-2W

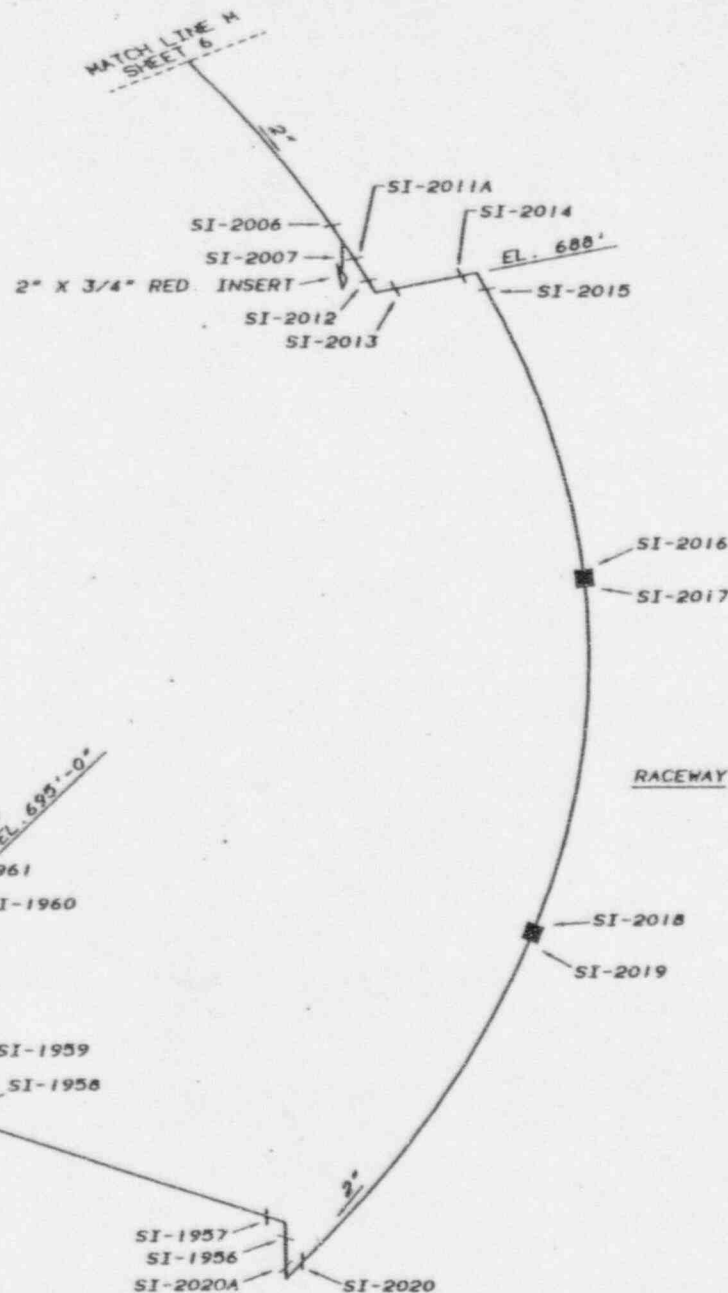
MATERIAL SPECIFICATIONS

PIPE
2" SCH. 160 A-376 TP304

FITTINGS
2" 600# A-182 F304

ASH: CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY		DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED	WBC	APPROVED	WBC	END MAINTAINED DRAWING	
SUBMITTED	WBC	ISI-0430-C-06			00



REFERENCE DRAWINGS:
 1-SI-509-1W
 1-SI-509-2W

MATERIAL SPECIFICATIONS:

PIPE

2" SCH 160 A-376 TP304

FITTINGS

2" 6000# A-182 F304

FLANGE

2" 1500# A-182 F316

ASME CC-2 (EQUIVALENT)

ACCUMULATOR ROOM NO. 2

RACEWAY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED	APPROVED	12-16-85	END	MAINTAINED DRAWING	REV
SUBMITTED	12-16-85	ISI-0430-C-07	00		

REFERENCE DRAWINGS

1-SI-510-1W
1-SI-510-2W

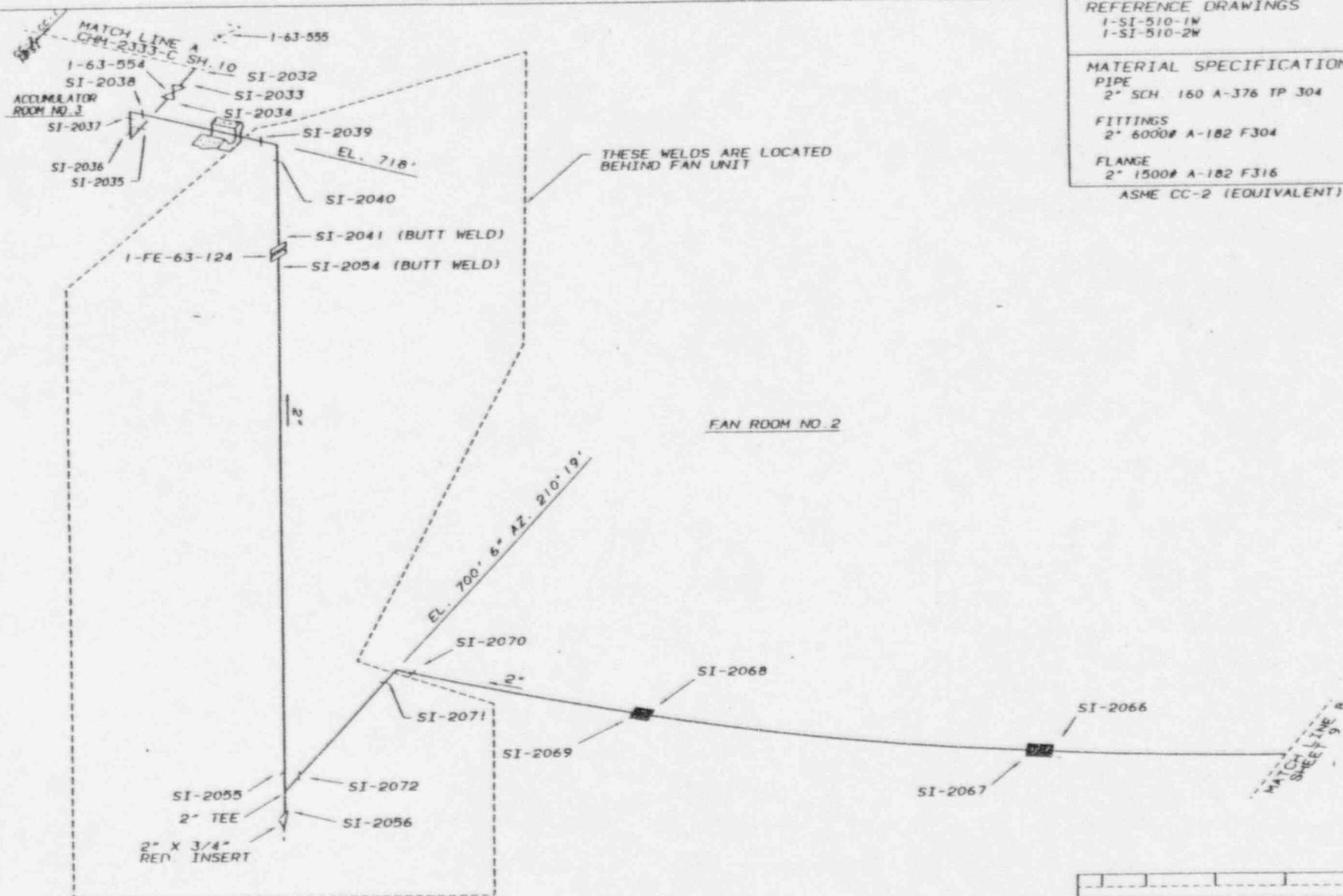
MATERIAL SPECIFICATIONS

PIPE
2" SCH. 160 A-376 TP 304

FITTINGS
2" 6000# A-182 F304

FLANGE
2" 1500# A-182 F316

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	DATE	12-16-95	APPROVED	DATE	12-16-95
SUBMITTER	DATE	12-16-95	DATE	12-16-95	100

REFERENCE DRAWINGS:
 NAVCO A-7260
 1-SI-507-1W
 1-SI-510-2W

MATERIAL SPECIFICATIONS:
 PIPE

4" SCH 120 A-376 TP316
 2" SCH 160 A-376 TP304

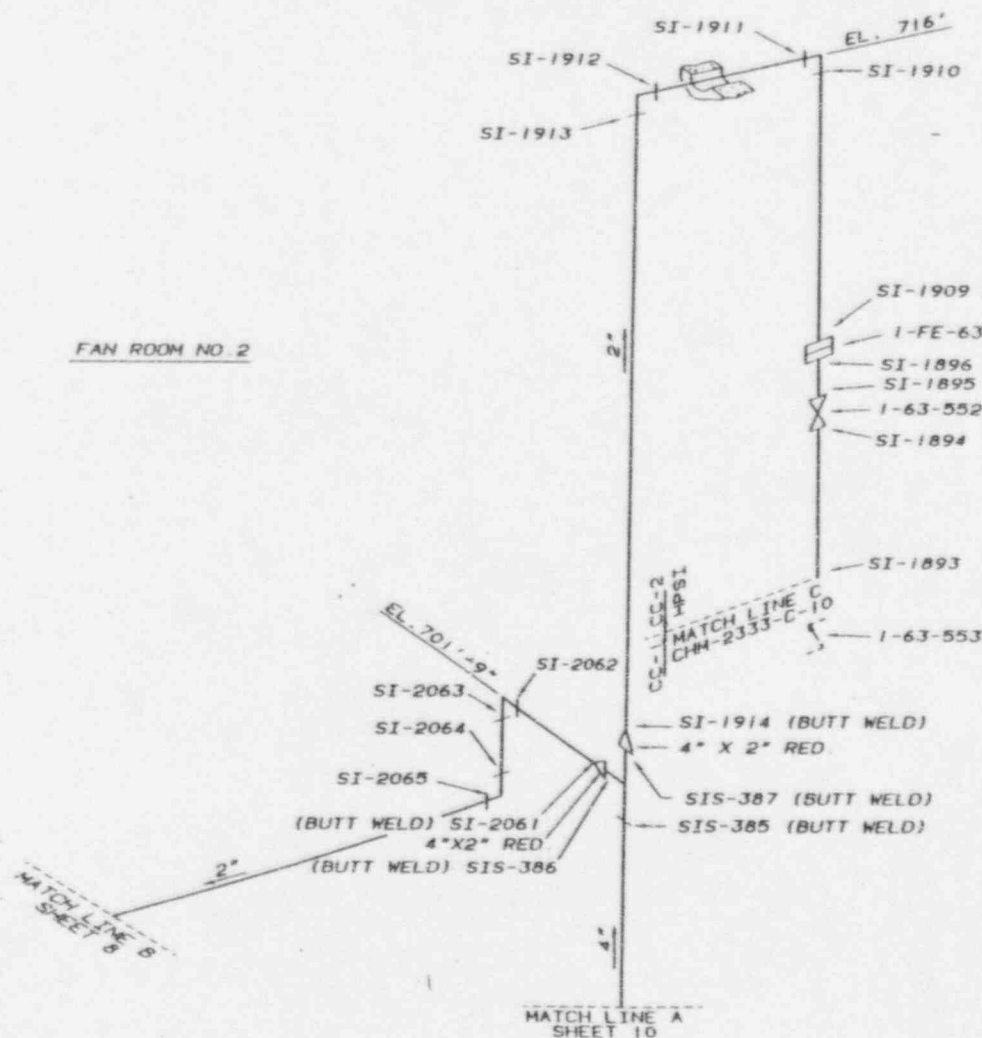
FITTINGS

4" SCH 120 X 2" SCH 160 A-403 TP316
 4" SCH 120 A-403 TP316

FLANGE

2" 1500# A-182 F316

ASME CC-2 (EQUIVALENT)



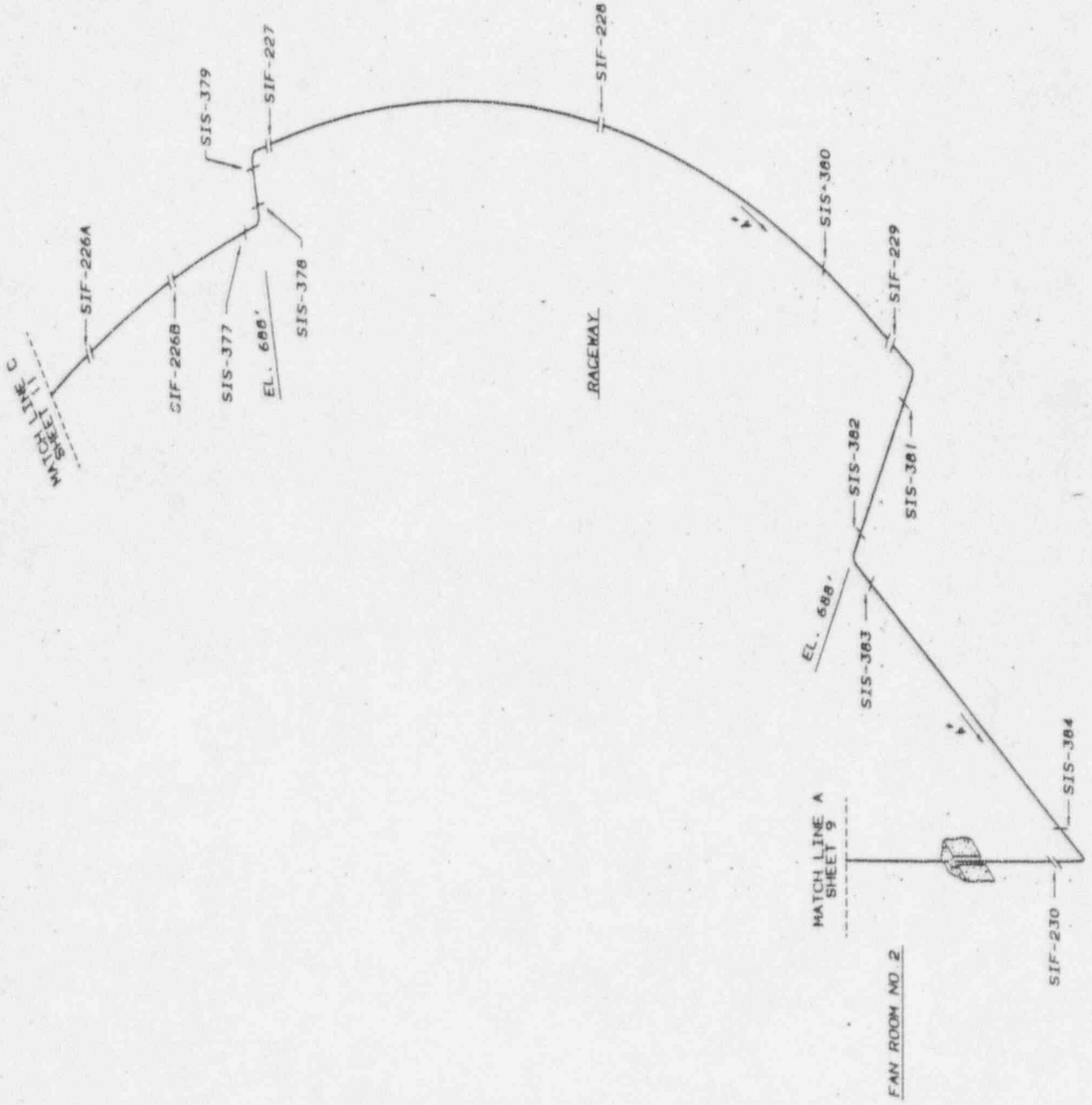
FAN ROOM NO. 2

ACCUMULATOR ROOM NO. 2

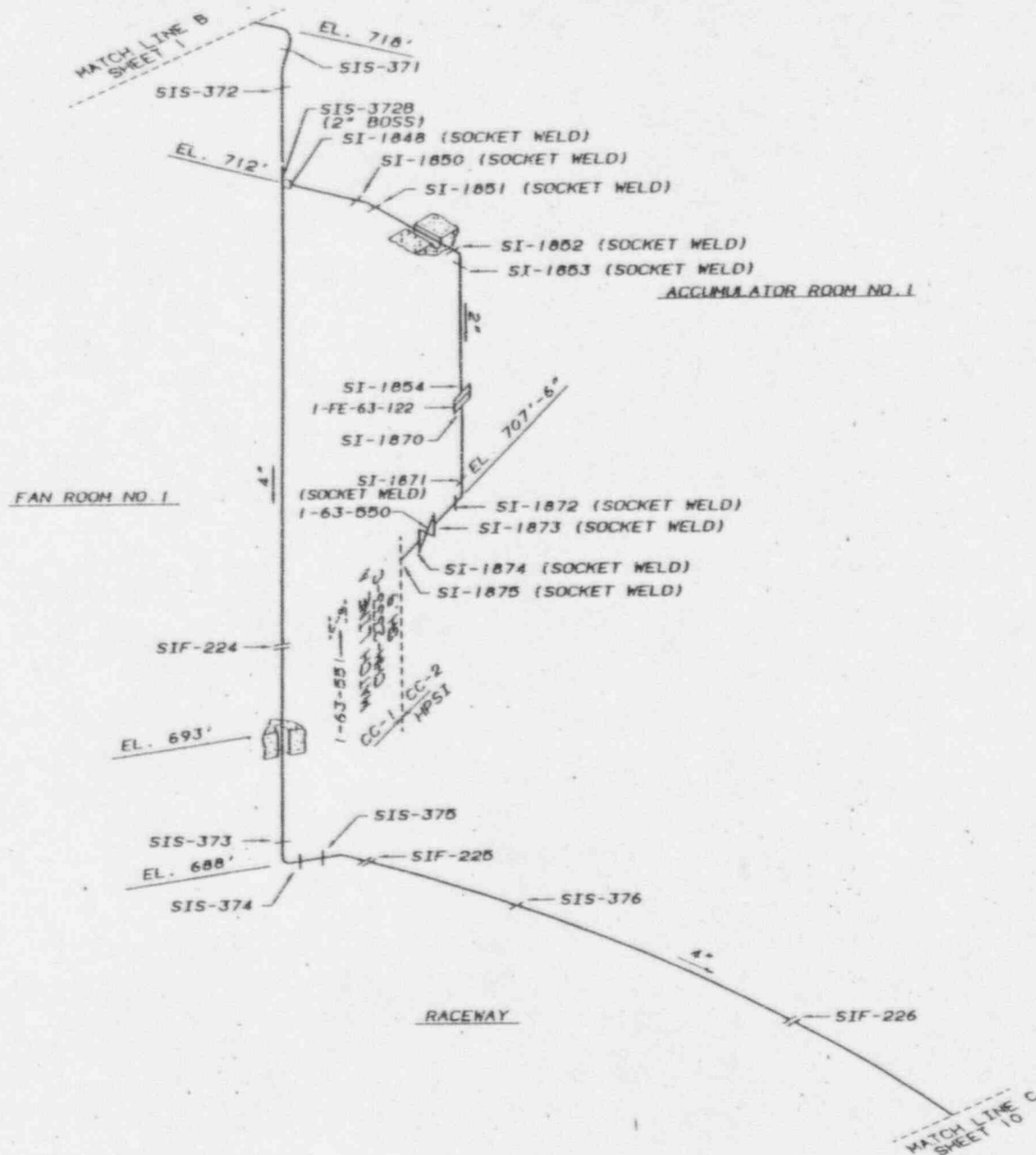
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEDOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN	WPC	DATE	12-16-55	SCALE	NOT TO SCALE
CHECKED	WPC	APPROVED	WPC	CAD MAINTAINED DRAWING	REV
SUBMITTED	WPC	DATE	12-16-55	SCALE	NOT TO SCALE
ISI-0430-C-09 100					

REFERENCE DRAWINGS
NAVC0 A-7260

MATERIAL SPECIFICATIONS
PIPE 4" SCH. 120 A-376 TP316
FITTINGS 4" SCH. 120 A-403 TP316
ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	APPROVED	HL	CAD MAINTAINED	DRASING	REV
SUBMITTED	REV	151-0430-C-10	100		

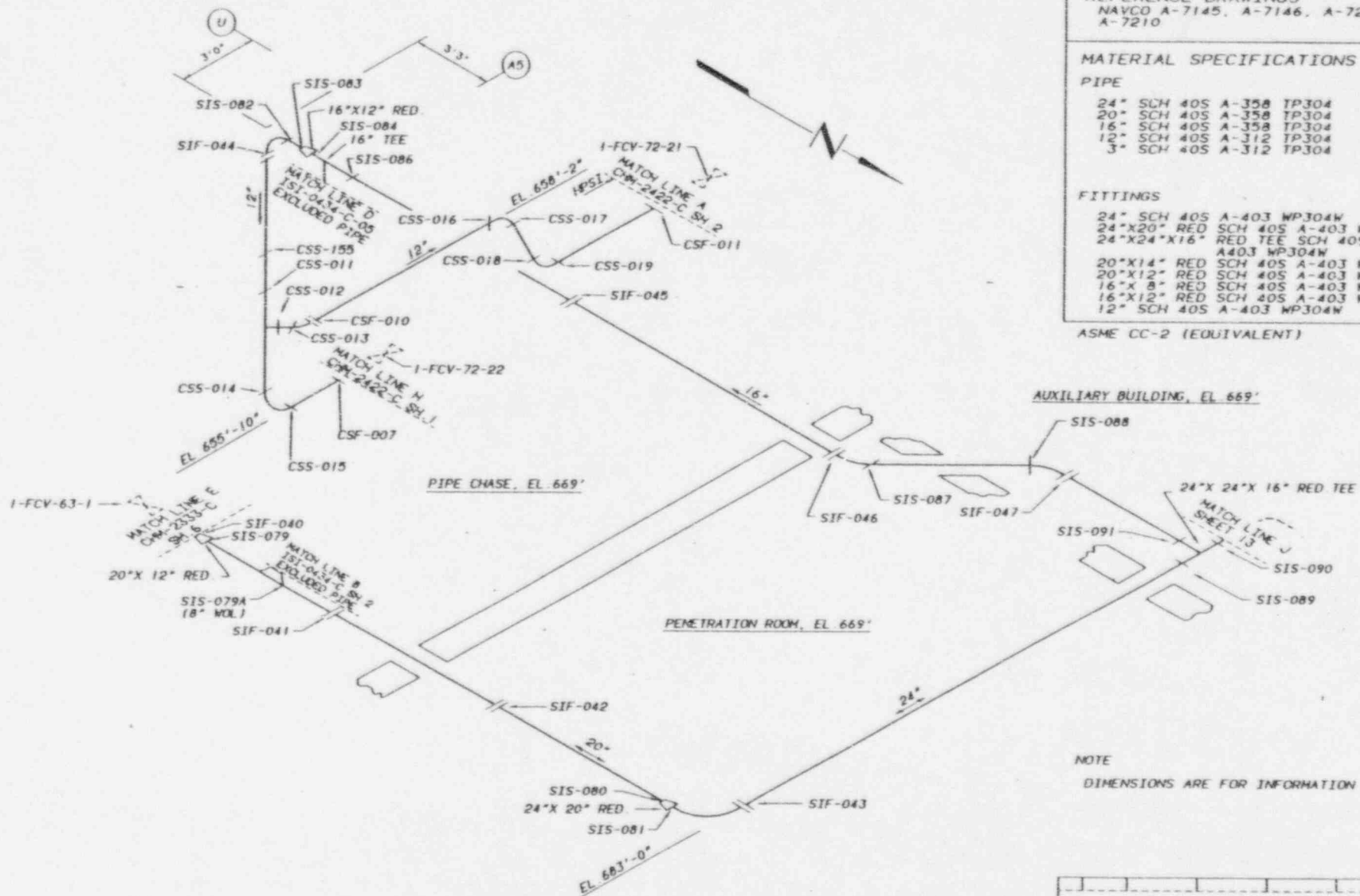


REFERENCE DRAWINGS:
 NAVCD A-7260
 I-SI-006-1M

MATERIAL SPECIFICATIONS:
 PIPE
 2" SCH. 160 A-312 TP304
 4" SCH. 120 A-376 TP316
 FITTINGS
 2" 6000# A-182 F304
 4" SCH 120 A-403 TP316
 FLANGE
 2" 1500# A-182 F316

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-18-95	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED BY	12/18/95	CAD MAINTAINED DRAWING	REV	
SUBMITTED BY	12/18/95	ISI-0430-C-11	00		



REFERENCE DRAWINGS
NAVCO A-7145, A-7146, A-7203,
A-7210

MATERIAL SPECIFICATIONS

PIPE

24" SCH 40S A-358 TP304
20" SCH 40S A-358 TP304
16" SCH 40S A-358 TP304
12" SCH 40S A-312 TP304
3" SCH 40S A-312 TP304

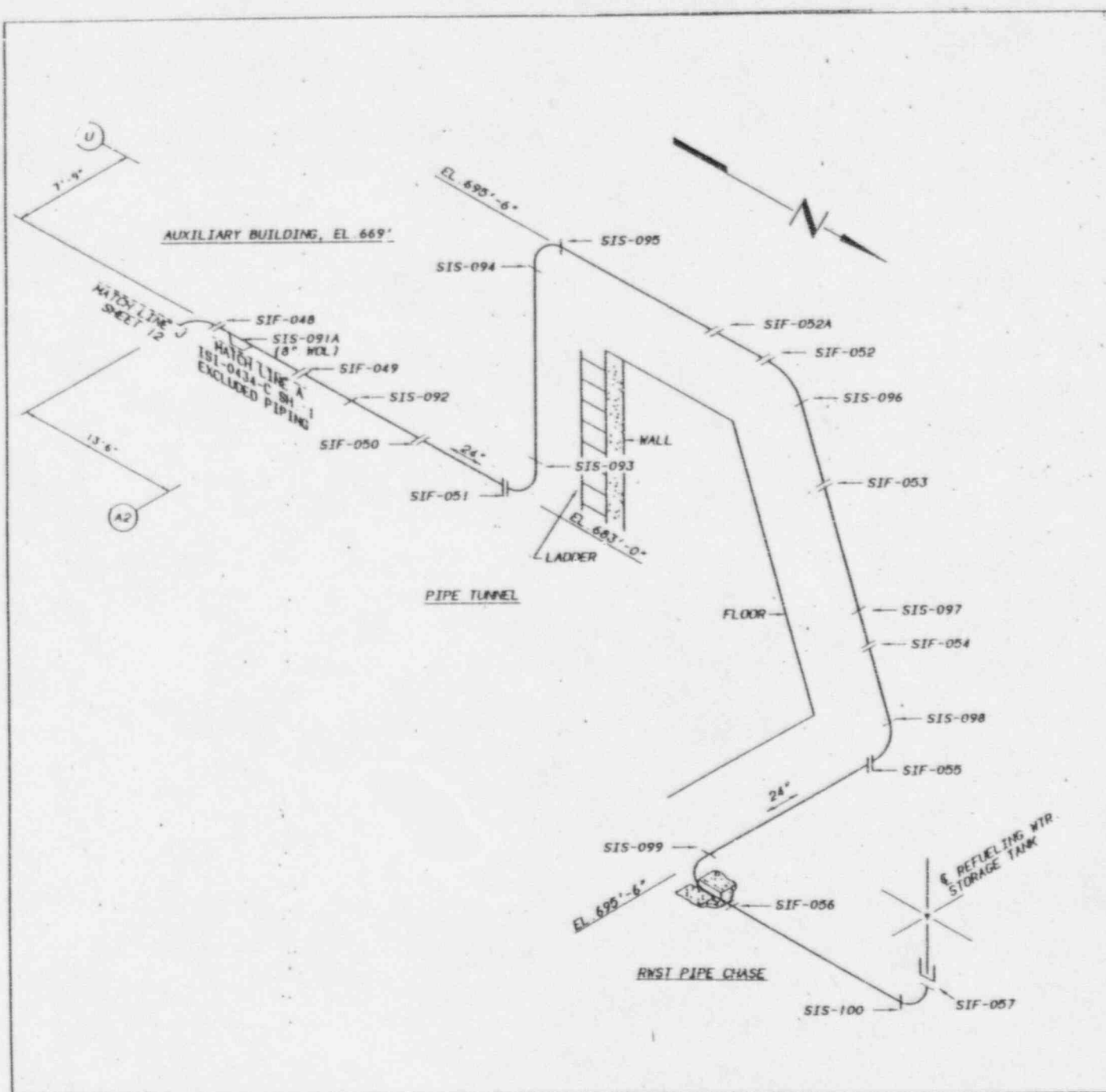
FITTINGS

24" SCH 40S A-403 WP304W
24"x20" RED SCH 40S A-403 WP304W
24"x24"x16" RED TEE SCH 40S
A403 WP304W
20"x14" RED SCH 40S A-403 WP304W
20"x12" RED SCH 40S A-403 WP304W
16"x8" RED SCH 40S A-403 WP304W
16"x12" RED SCH 40S A-403 WP304W
12" SCH 40S A-403 WP304W

ASME CC-2 (EQUIVALENT)

NOTE
DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN	EPG	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	EPG	APPROVED	EPG	CAD	MAINTAINED DRAWING

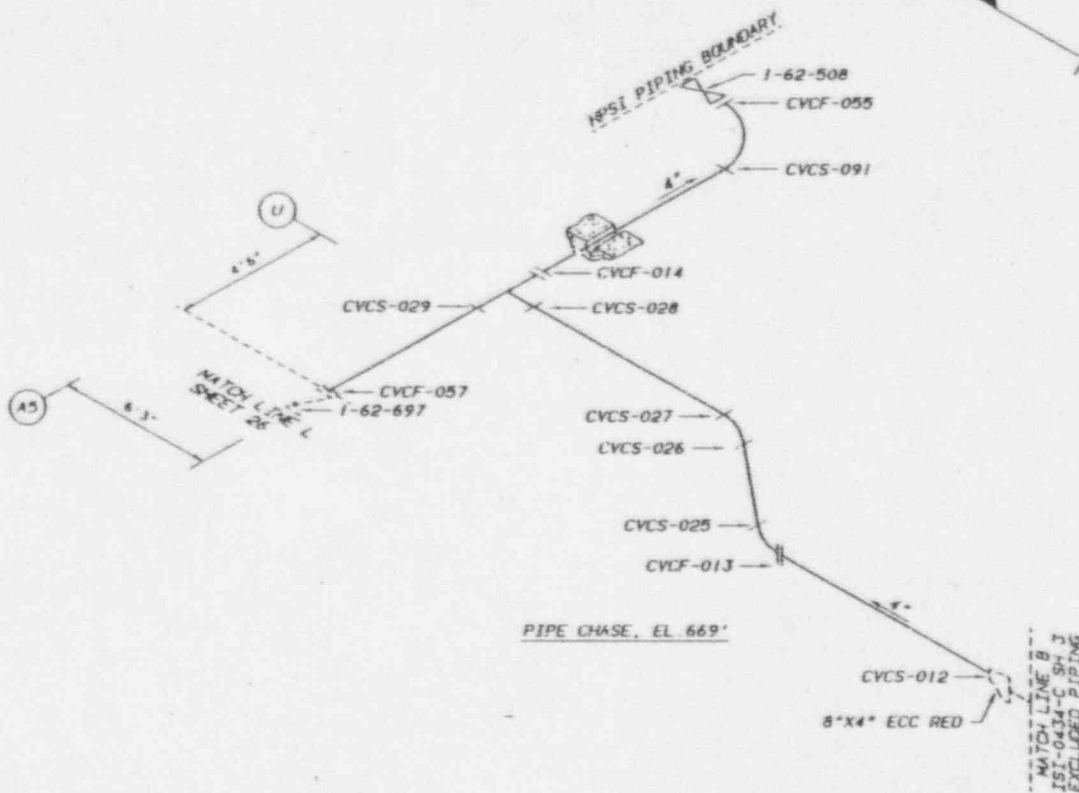


REFERENCE DRAWINGS NAVCO A-7146
MATERIAL SPECIFICATIONS
PIPE 24" SCH 40S A-358 TP304
FITTINGS 8" WOL SCH 40S A-182 F304

ASME CC-2 (EQUIVALENT)

NOTE
DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN	WPC	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	WPC	APPROVED	WPC	CAD MAINTAINED DRAWING	REV
SUBMITTED	WPC	ISI-0430-C-13	00		



REFERENCE DRAWINGS
NAVCO A-7128, A-7131, A-7132
UPI-1

MATERIAL SPECIFICATIONS

PIPE
4" SCH 40S A-312 TP304

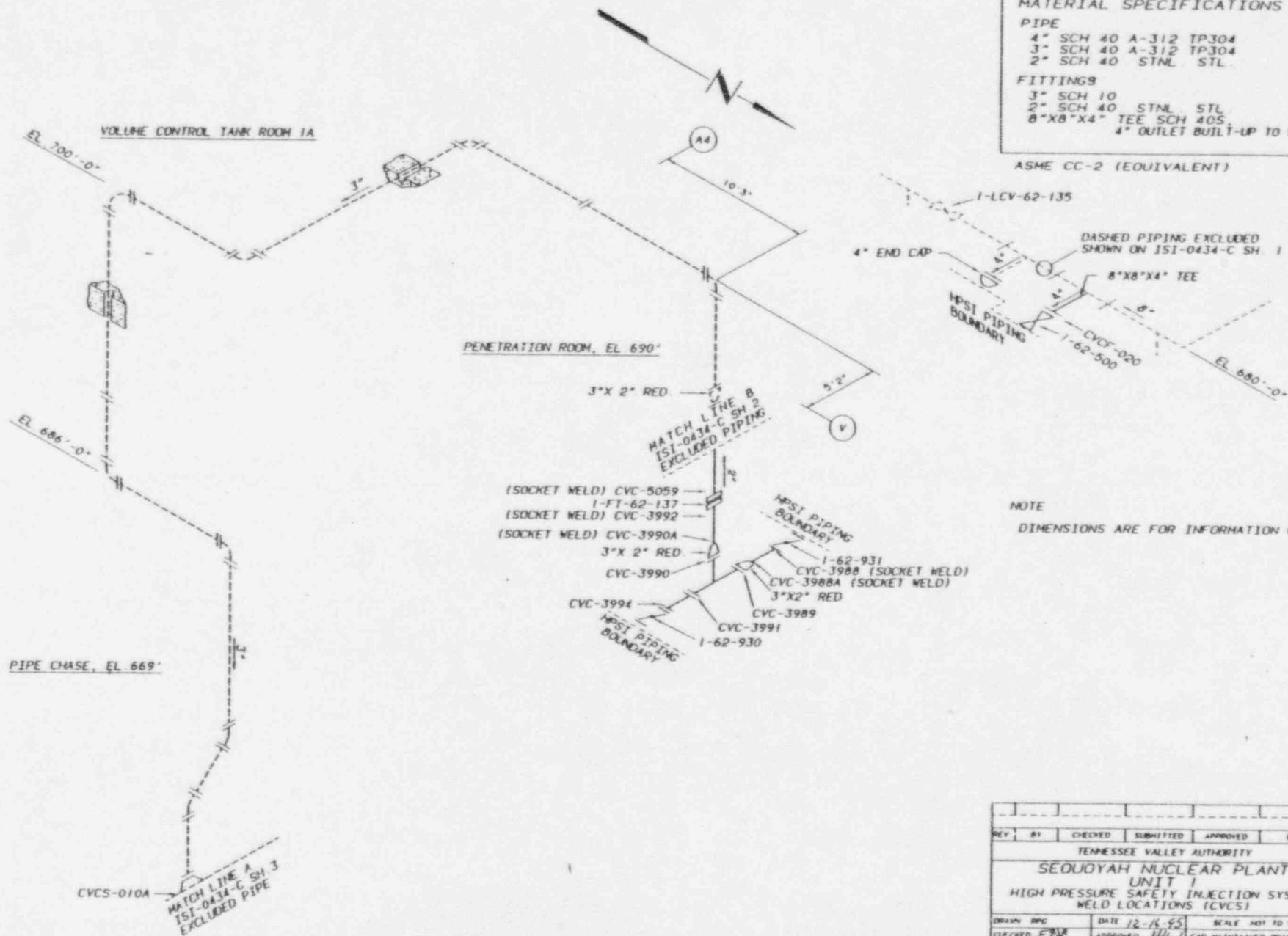
FITTINGS
4" SCH 40S A-403 WP304W
2" A-182 F304
8"x4" ECC RED SCH 40S
A-403 WP304W

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	DRAWN	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN	WPC	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	WPC	APPROVED	WPC	CAD MAINTAINED DRAWING	REV
SUBMITTED	WPC	ISI-0430-C-14	00		



REFERENCE DRAWINGS
CVCS-28, CVCS-35, A-7128

MATERIAL SPECIFICATIONS

PIPE

4" SCH 40 A-312 TP304
3" SCH 40 A-312 TP304
2" SCH 40 STNL STL

FITTINGS

3" SCH 10
2" SCH 40 STNL STL
8" X 8" X 4" TEE SCH 40S
4" OUTLET BUILT-UP TO SCH 120

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN	APC	DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED	APC	APPROVED	APC	CAD MAINTAINED DRAWING	REV
SUBMITTED	APC	ISI-0430-C-15	100		

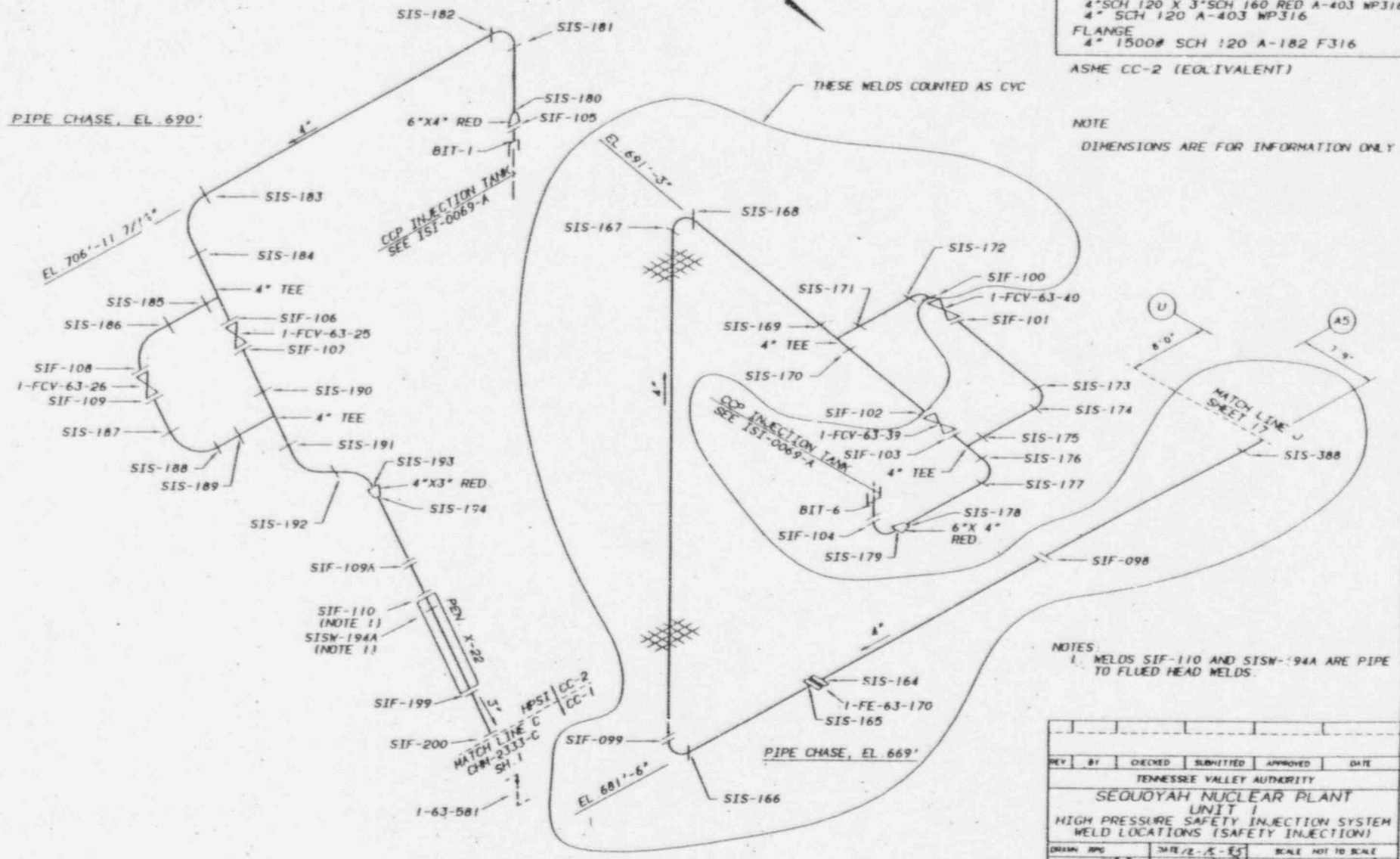
REFERENCE DRAWINGS
 NAVCO A-7149, A-7150, A-7258
 CONTRACT 92615 DWG 74229-05 0

MATERIAL SPECIFICATIONS

PIPE
 4" SCH 120 A-376 TP316
 3" SCH 160 A-376 TP304
 FITTINGS
 6" SCH 160 A-403 WP316
 4" SCH 120 X 3" SCH 160 RED A-403 WP316
 4" SCH 120 A-403 WP316
 FLANGE
 4" 1500# SCH 120 A-182 F316

ASME CC-2 (EQUIVALENT)

NOTE
 DIMENSIONS ARE FOR INFORMATION ONLY



NOTES
 1. WELDS SIF-110 AND SIF-194A ARE PIPE TO FLUED HEAD WELDS.

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN: RPS	DATE: 2-15-85	SCALE: NOT TO SCALE			
CHECKED: [Signature]	APPROVED: [Signature]	CAD MAINTAINED: DRIVING	REV		
SUBMITTED: [Signature]	ISI-0430-C-16		00		

REFERENCE DRAWINGS
 NAVCO A-7129, A-7131, A-7132
 CONTRACT: 91934
 MODEL: 2 1/2-RLIJ-11 STAGE

MATERIAL SPECIFICATIONS

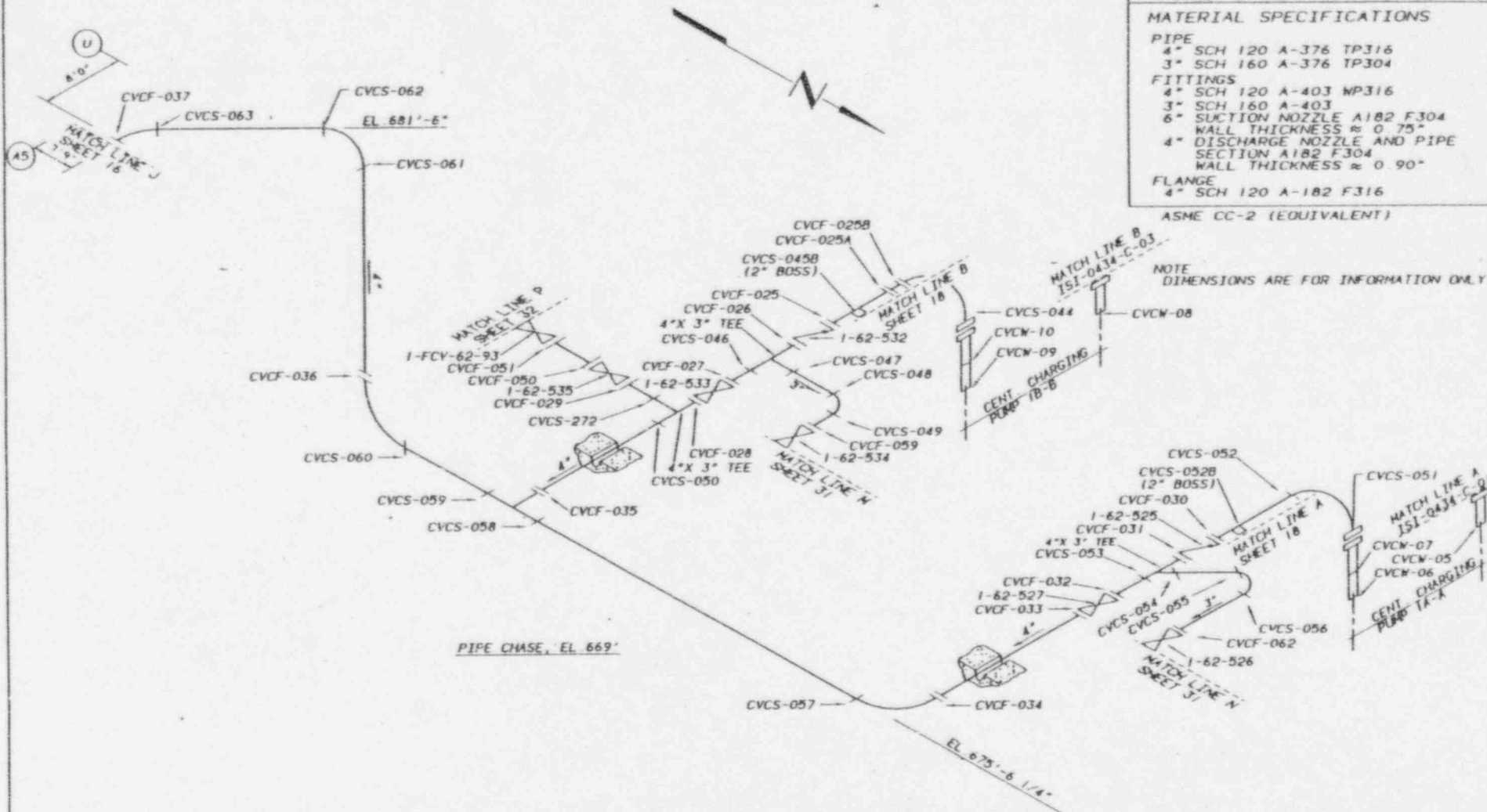
PIPE
 4" SCH 120 A-376 TP316
 3" SCH 160 A-376 TP304

FITTINGS
 4" SCH 120 A-403 WP316
 3" SCH 160 A-403
 6" SUCTION NOZZLE A182 F304
 WALL THICKNESS $\approx 0.75"$
 4" DISCHARGE NOZZLE AND PIPE
 SECTION A182 F304
 WALL THICKNESS $\approx 0.90"$

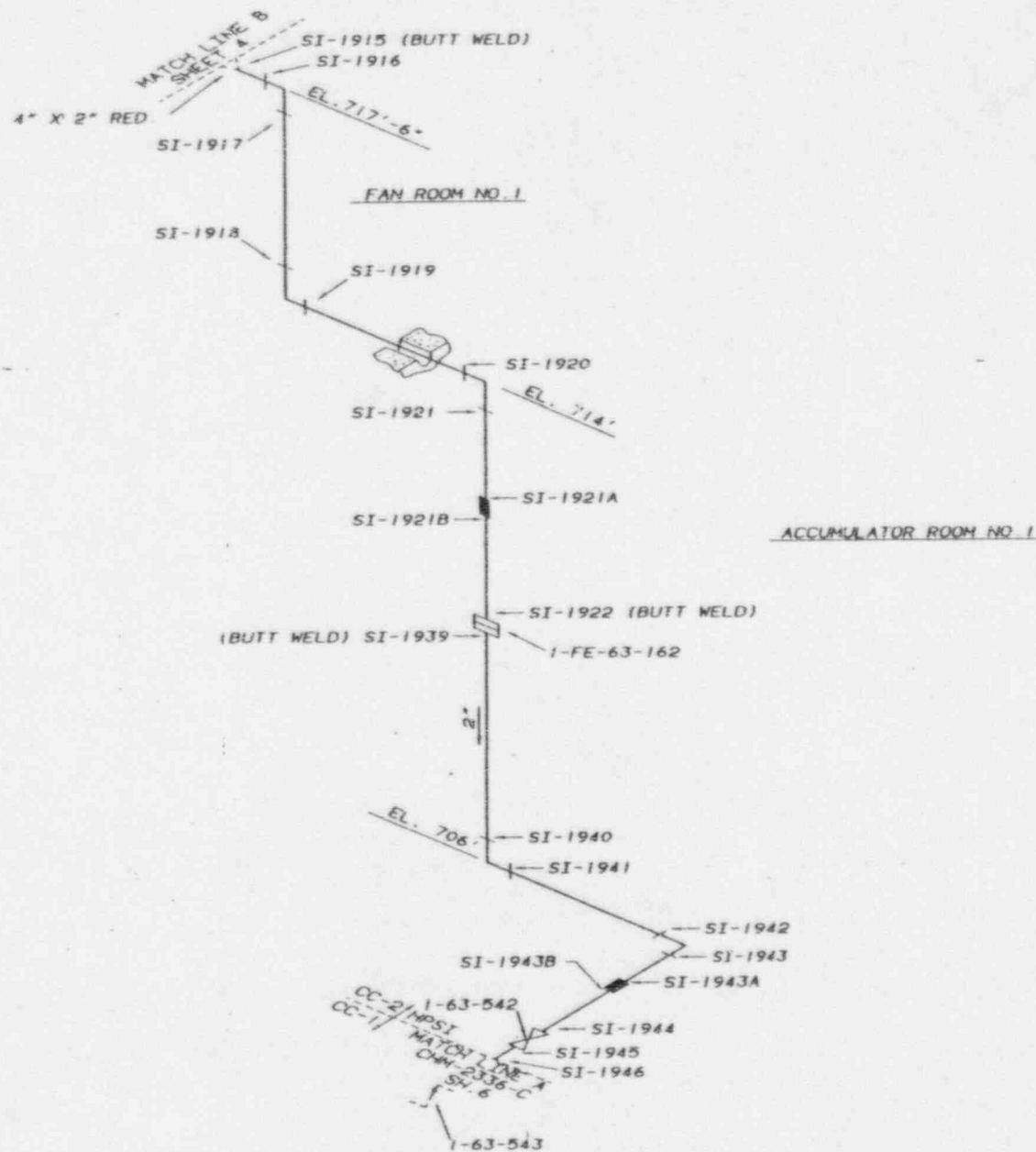
FLANGE
 4" SCH 120 A-182 F316

ASME CC-2 (EQUIVALENT)

NOTE
 DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	APPROVED		CAD MAINTAINED DRAWING	REV	
SUBMITTED	21	ISI-0430-C-17	00		



REFERENCE DRAWINGS
1-SI-508-1W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 A-376 TP304

FITTING
2" SCH 160 A-182 F304

FLANGE
2" SCH 160 A-182 F316

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRWING	WPC	DATE	12-16-88	SCALE	NOT TO SCALE
CHECKED	GAS	APPROVED	HLW	CND MAINTAINED DRAWING	REV
SUBMITTER	HLW	ISI-0430-C-19			00

MATCH LINE C
SHEET 5

SI-1809
(2" BOSS)

SI-1810

SI-1811

SI-1812

SI-1813

EL. 718'

FAN ROOM NO. 1

SI-1814

SI-1815

2"

EL. 693'

SI-1818

EL. 688'

SI-1820

SI-1821

SI-1819

SI-1822

SI-1823

SI-1826

2" TEE

SI-1827

SI-1832

RACEWAY

2" X 3/4" RED INSERT

SI-1833

SI-1832A

SI-1834

SI-1835

MATCH LINE A
SHEET 21

REFERENCE DRAWINGS

1-SI-505-2W

MATERIAL SPECIFICATIONS

PIPE

2" SCH 160 A-376 TP304

FITTINGS

2" SCH 160 A-182 F304

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN	WPS	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	WPS	APPROVED	WPS	CAD MAINTAINED DRAWING	REV
SUBMITTED	WPS	ISI-0430-C-20			

REFERENCE DRAWINGS
1-SI-505-2W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 A-376 TP304

FITTINGS
2" SCH 160 A-182 F304

ASME CC-2 (EQUIVALENT)

MATCH LINE A
SHEET 20

MATCH LINE B
SHEET 22

SI-1837

SI-1836

SI-1836

SI-1839

SI-1840

SI-1842

SI-1843

SI-1841

SI-1844

SI-1845

EL. 600'

2"

RACEWAY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DATE	12-8-83	SCALE	NOT TO SCALE		
CHECKED	201	APPROVED	201	CAD MANIPULATED DRAWING	REV
SUBMITTED	201				
ISI-0430-C-21					100

REFERENCE DRAWINGS
 1-SI-505-1W
 1-SI-505-2W

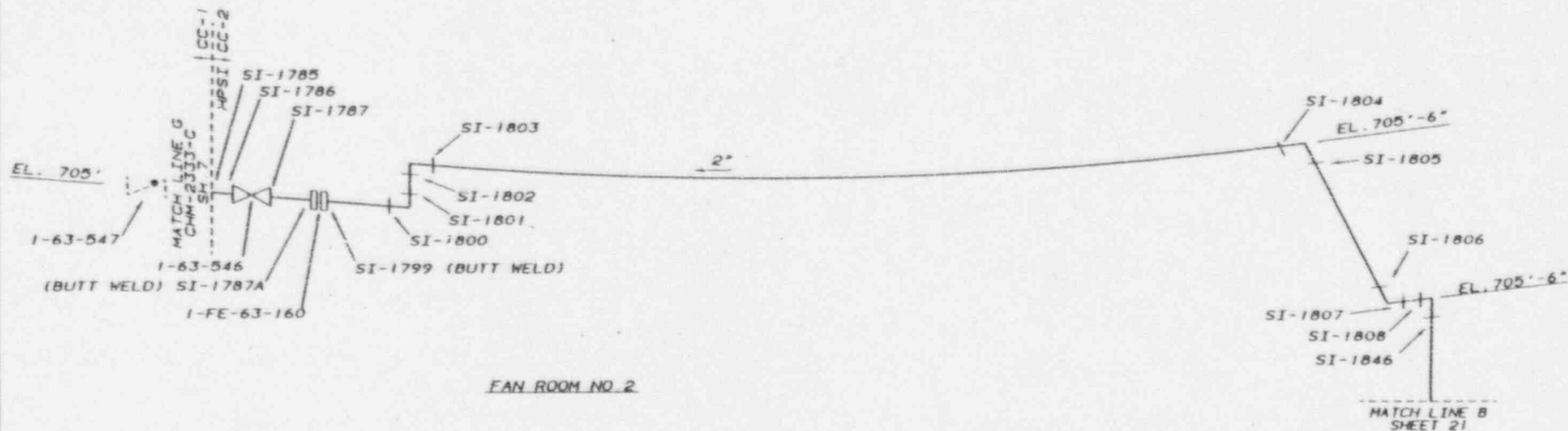
MATERIAL SPECIFICATIONS

PIPE
 2" SCH 160 A-376 TP304

FITTINGS
 2" SCH 160 A-182 F304

FLANGE
 2" SCH 160 A-182 F316

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-94	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED		CAD MAINTAINED DRAWING	REV	
SUBMITTER			ISI-2430-C-22	00	

MATCH LINE B
ISI-0434-C SH. 4
EXCLUDED PIPE

SIF-097

SAFETY INJECTION PUMP ROOM 1A-A, EL. 669'

EL. 675'-3 3/8"

SIS-161

SIF-096

SIS-163

SIS-162

EL. 698'-9 3/8"

SIF-115

SIS-155

THESE WELDS COUNTED AS CVC

MATCH LINE C
ISI-0434-C SH. 3
EXCLUDED PIPE

SIS-159

SIS-160

SIF-093A

SIF-093

1-FCV-63-7

SIF-092

SIS-158

SIS-157

SIF-095

1-FCV-63-6

SIS-153

SIS-152

SIS-150

SIF-094

SIS-151

SIF-117

1-63-531

SIF-116

SIS-148

SIS-149

EL. 672'-0"

PIPE CHASE, EL. 669'

REFERENCE DRAWINGS
NAVCO A-7148, A-7128

MATERIAL SPECIFICATIONS

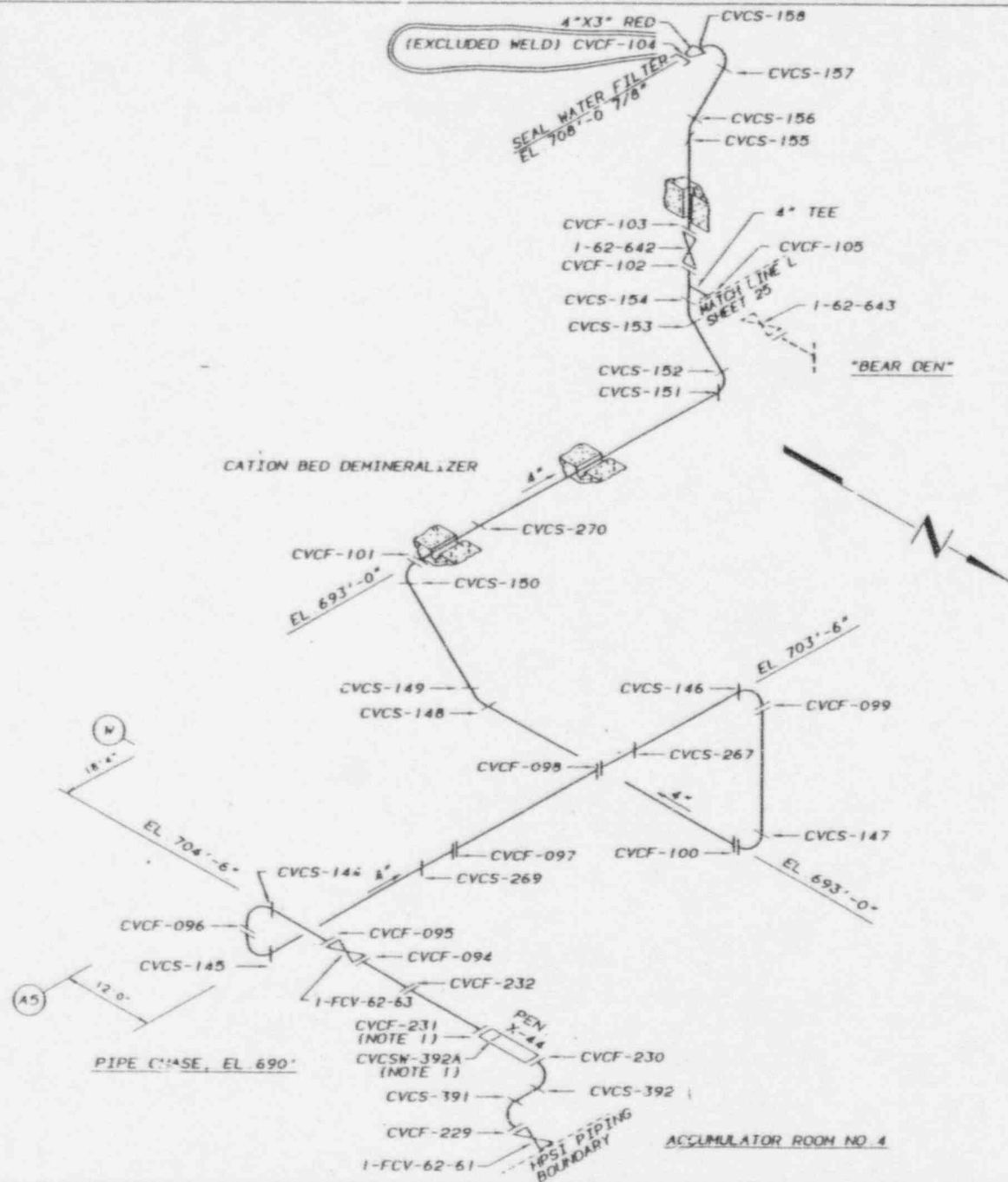
PIPE
4" SCH 40S A-312 TP304
FITTINGS
4" SCH 40S A-403 WP304W

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION/CVCS)					
DRAWN	BYC	DATE	12-14-85	SCALE	NOT TO SCALE
CHECKED	BYC	APPROVED	BYC	CAD MAINTAINED DRAWING	REV
SUBMITTED	BYC	DATE	12-14-85	SCALE	NOT TO SCALE
ISI-0430-C-23 00					



REFERENCE DRAWINGS
 NAVCO A-7136, A-7268
 47W331-2
 CONTRACT 92615 DWG 74229-C7 C

MATERIAL SPECIFICATIONS
 PIPE
 4" SCH 40S A-312 TP304
 FITTINGS
 4" SCH 40S A-403 WP304W
 4"X3" RED SCH 40S A-403 WP304W
 3" END CTBR TO SCH 10S
 ASME CC-2 (EQUIVALENT)

NOTE:
 1. WELDS CVCF-093 AND CVCSW-392A ARE PIPE TO FLUED HEAD WELDS.
 2. DIMENSIONS ARE FOR INFORMATION ONLY.

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	APPROVED	12/16/95	END MAINTAINED	DATE	REV
SUBMITTED	12/16/95	ISI-0430-C-24			00

REFERENCE DRAWINGS
NAVCO A-7136, A-7137

MATERIAL SPECIFICATIONS

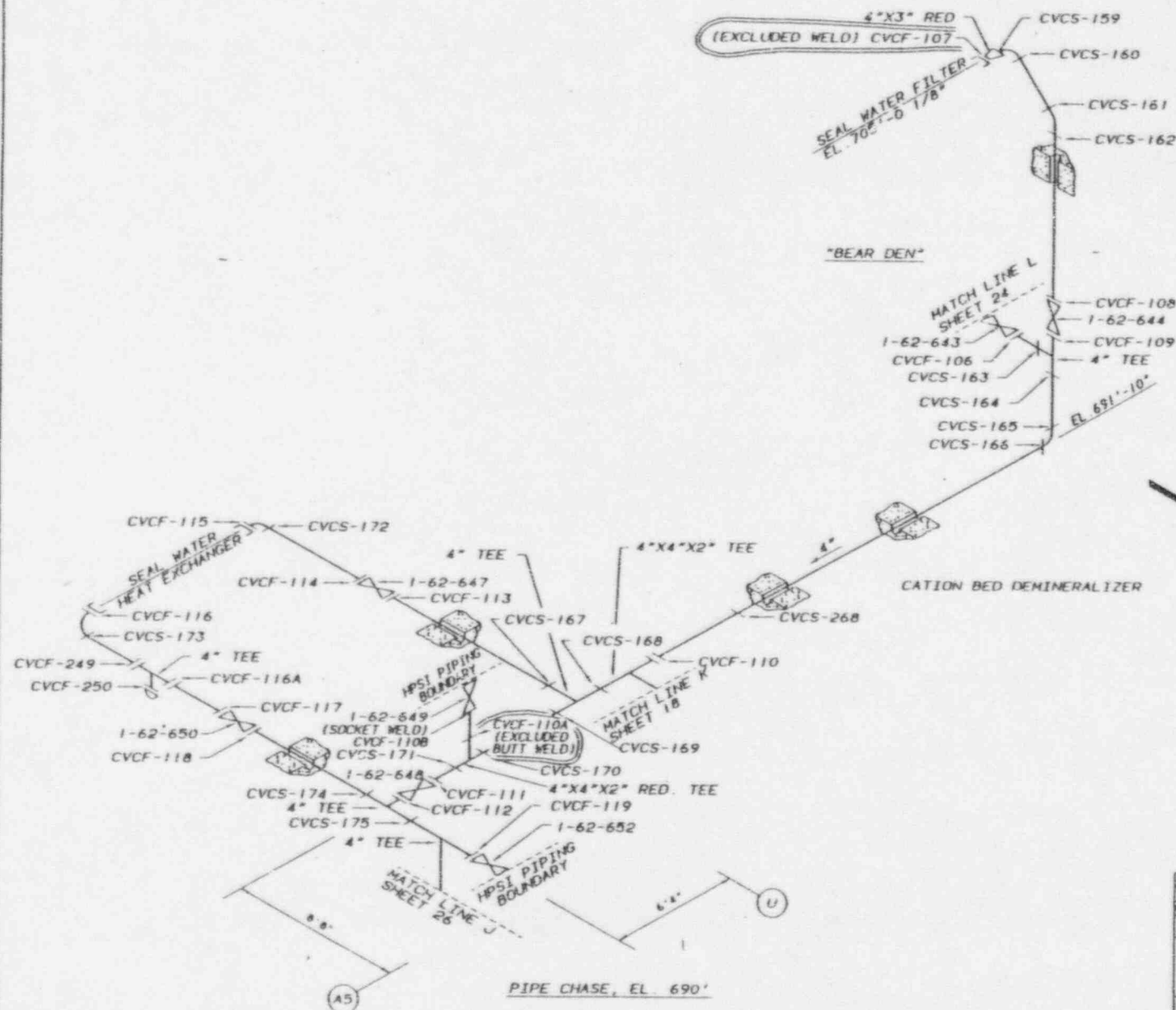
PIPE
4" SCH 40S A-312 TP304
2" SCH 40S STL STL

FITTINGS
4" SCH 40S A-403 WP304
4"X3" RED SCH 40S A-403 WP304W
3" END CTBR TO SCH 10S

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	12/16/85	CAD MAINTAINED DRAWING	REV	
REVISION	1	YCF	0570	02	

REFERENCE DRAWINGS
NAVCO A-7138

MATERIAL SPECIFICATIONS

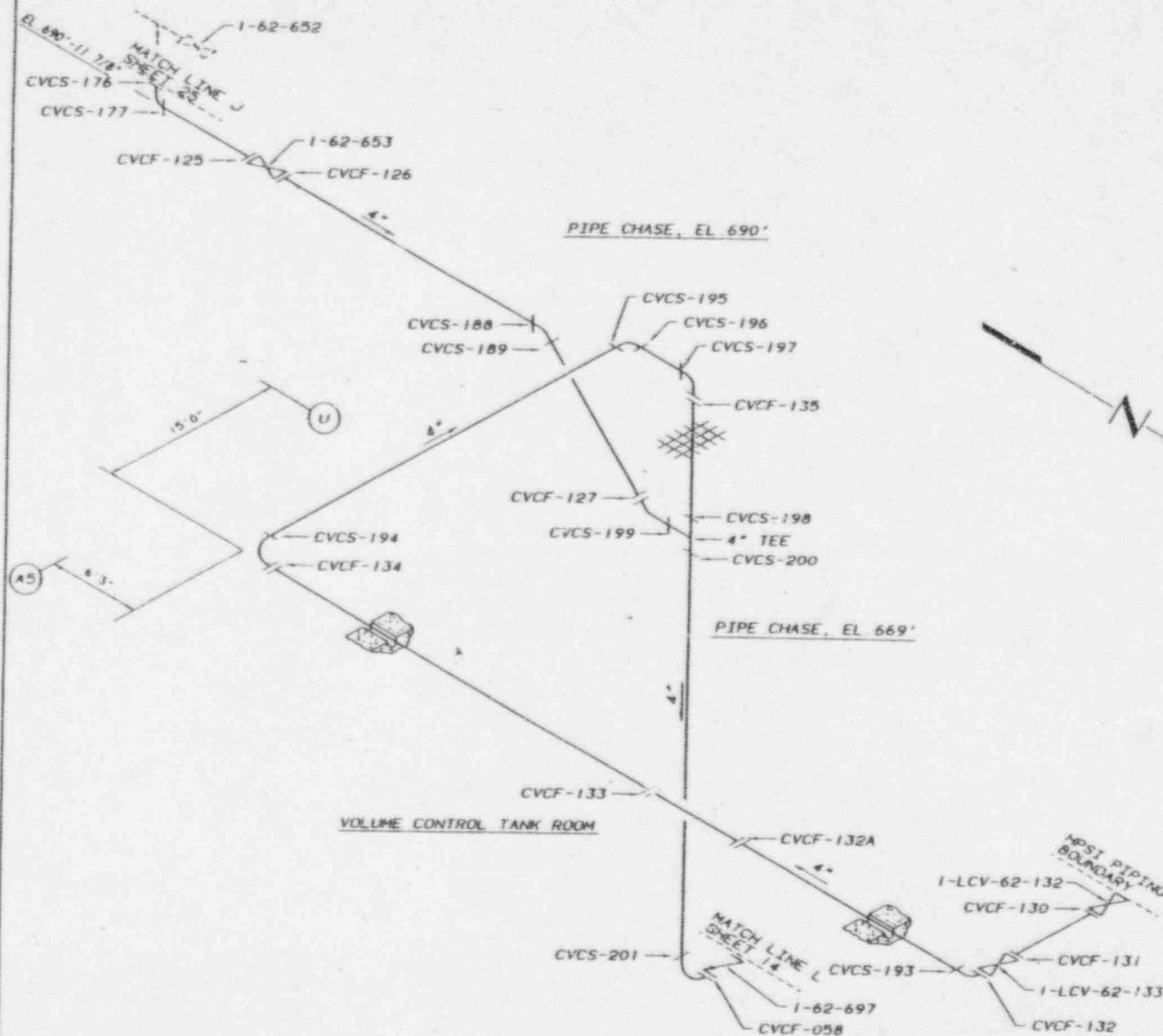
PIPE
4" SCH 40S A-312 TP304

FITTINGS
4" SCH 40S A-403 WP304

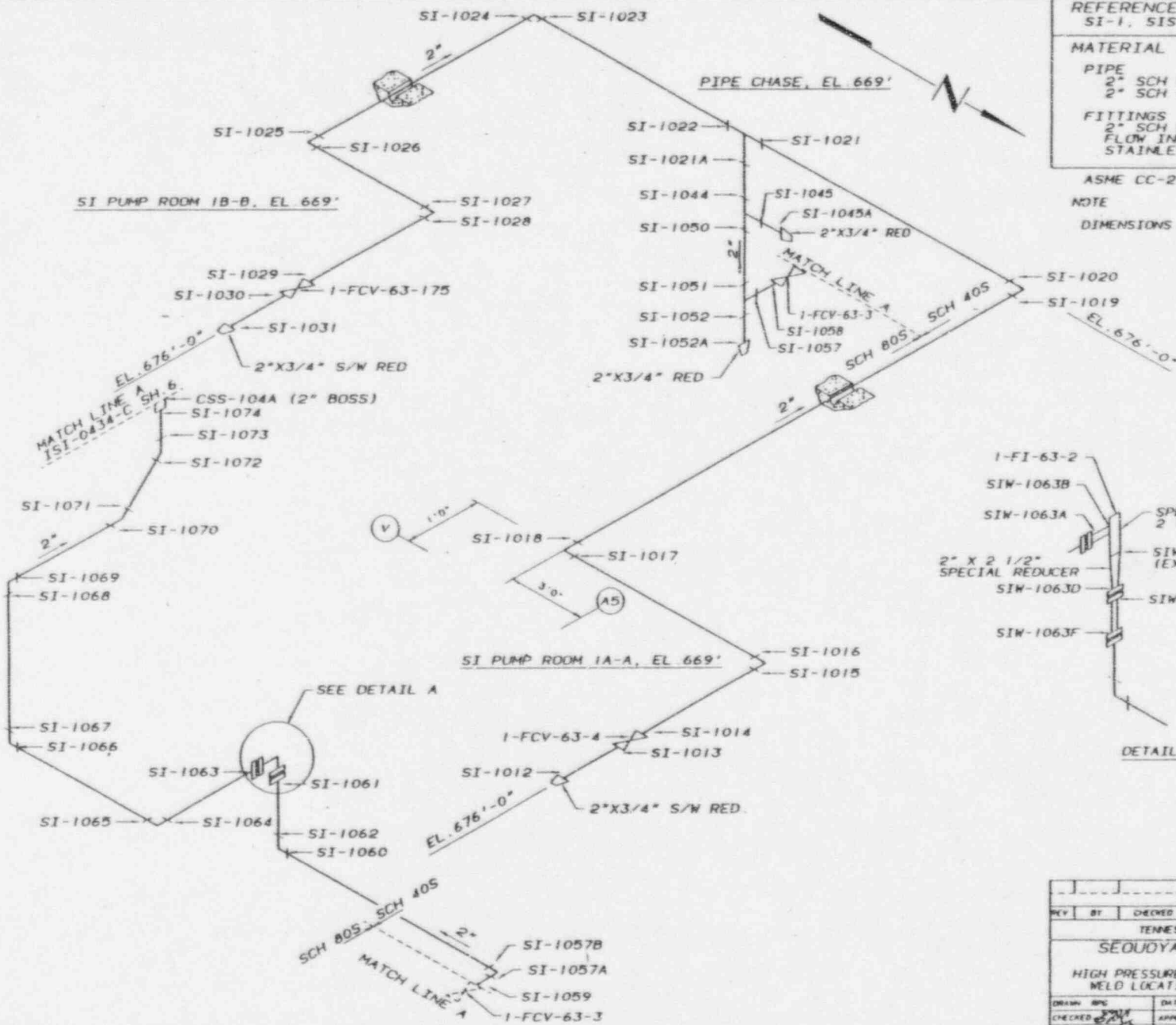
ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	12-16-84	SCALE	NOT TO SCALE	
CHECKED	APPROVED		CAD MAINTAINED DRAWING	REV	
SUBMITTER	ISI-0430-C-26	100			



REFERENCE DRAWINGS
SI-1, SIS-2, A-7210

MATERIAL SPECIFICATIONS

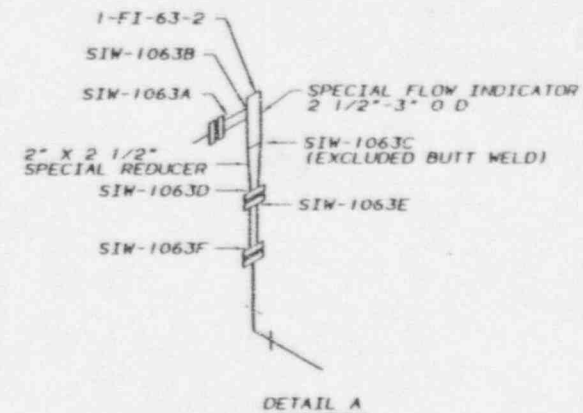
PIPE
2" SCH 80S A312 TP304SS
2" SCH 40S A312 TP304

FITTINGS
2" SCH 80S A182 F304
FLOW INDICATOR ASSEMBLY
STAINLESS STEEL

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRWN	SPC	DATE	12-14-83	SCALE	NOT TO SCALE
CHECKED	SPC	APPROVED	SPC	CAD MAINTAINED DRAWING	REV
SUBMITTED	SPC	DATE	12-14-83	SCALE	NOT TO SCALE

REFERENCE DRAWINGS
 CVC-1-11, 1-CVC-500-1W, 1-CVC-501-2W,
 1-CVC-502-2W, 1-CVC-503-1W, 47W331-2,
 CONTRACT 92615 DWG 74229-C6.0

MATERIAL SPECIFICATIONS

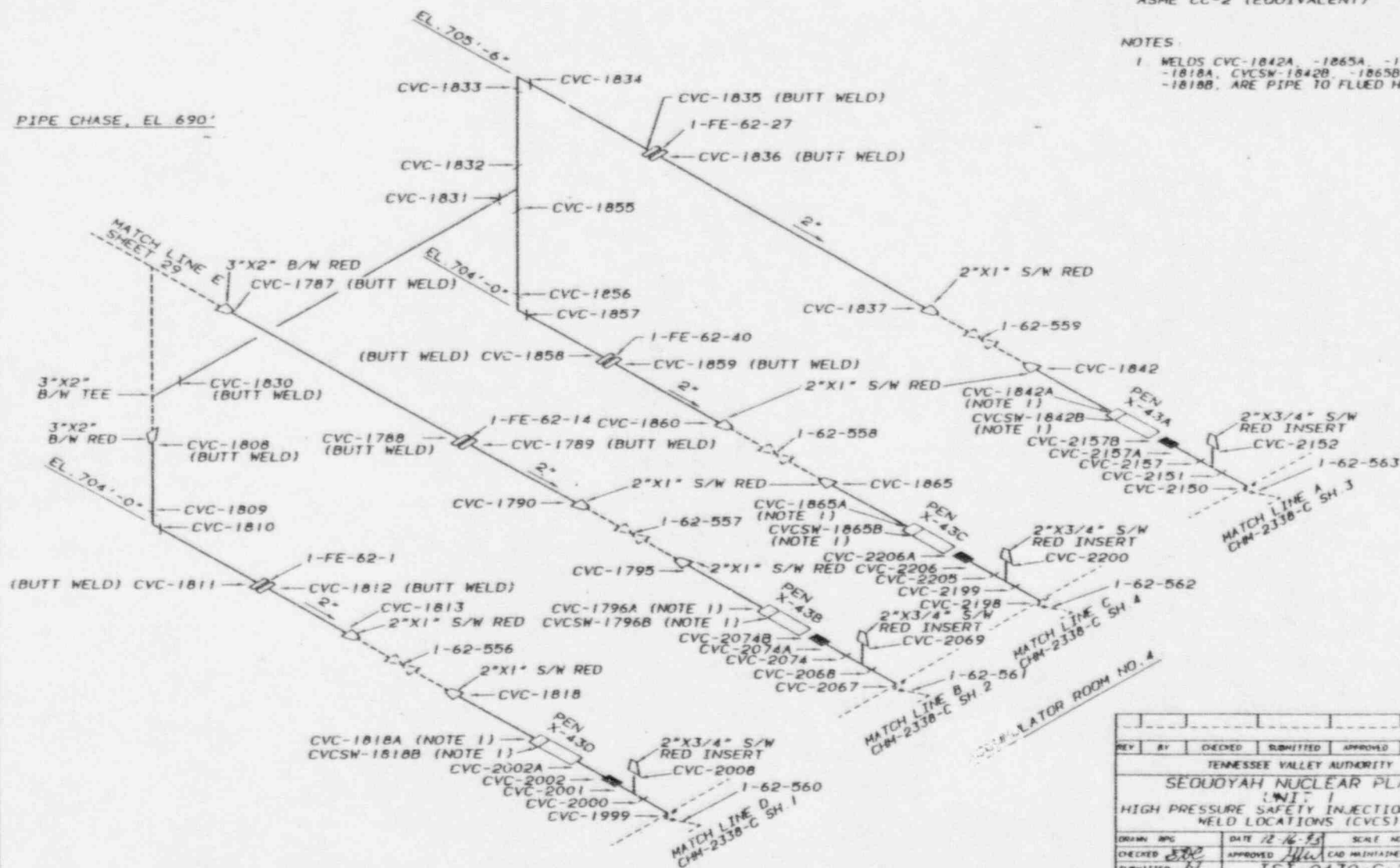
PIPE:
 2" SCH 160 A376 TP304

FITTINGS
 SCH 160 A182 F304
 3"X2" RED SCH 160 A403 WP304

ASME CC-2 (EQUIVALENT)

NOTES:

1. WELDS CVC-1842A, -1865A, -1796A,
 -1818A, CVC-1842B, -1865B, -1796B,
 -1818B, ARE PIPE TO FLUED HEAD WELDS



REFERENCE DRAWINGS
NAVCO A-7135

MATERIAL SPECIFICATIONS

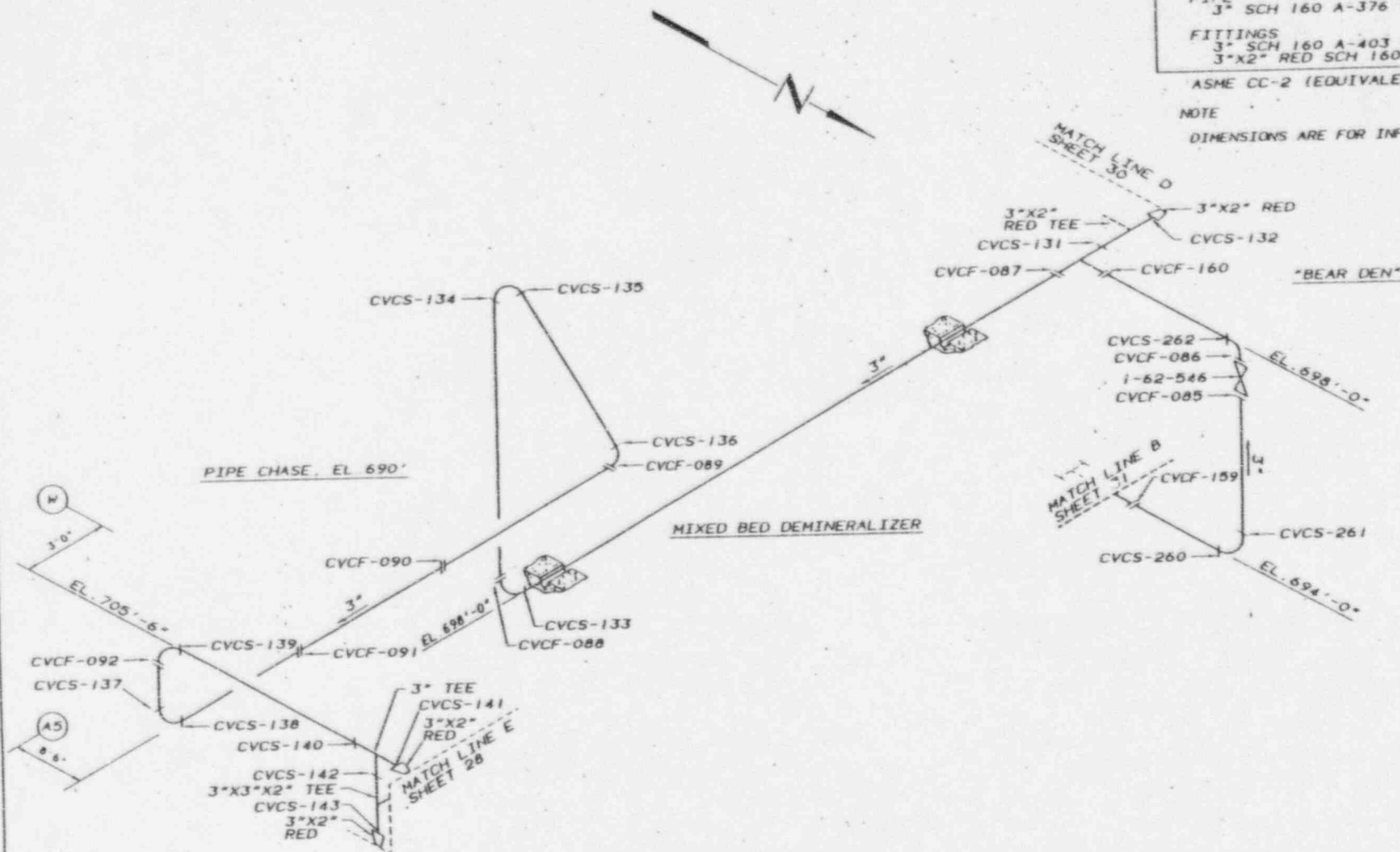
PIPE
3" SCH 160 A-376 TP304

FITTINGS
3" SCH 160 A-403 WP304
3"x2" RED SCH 160 A-403 WP304

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED		CAD MAINTAINED DRAWING	REV	
SUBMITTED			ISI-0430-C-29	00	

REFERENCE DRAWINGS
CVC-1

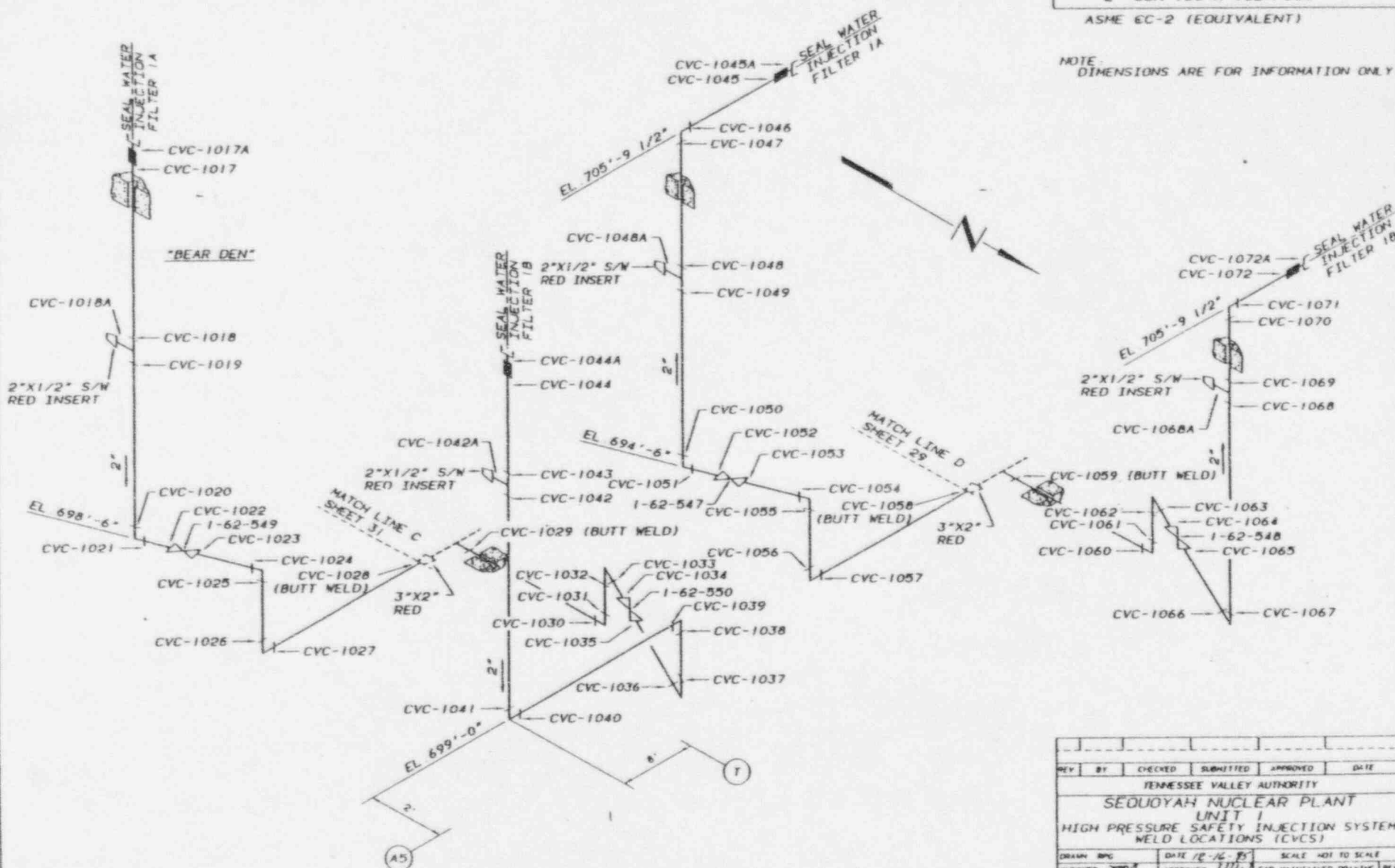
MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 A-376 TP304

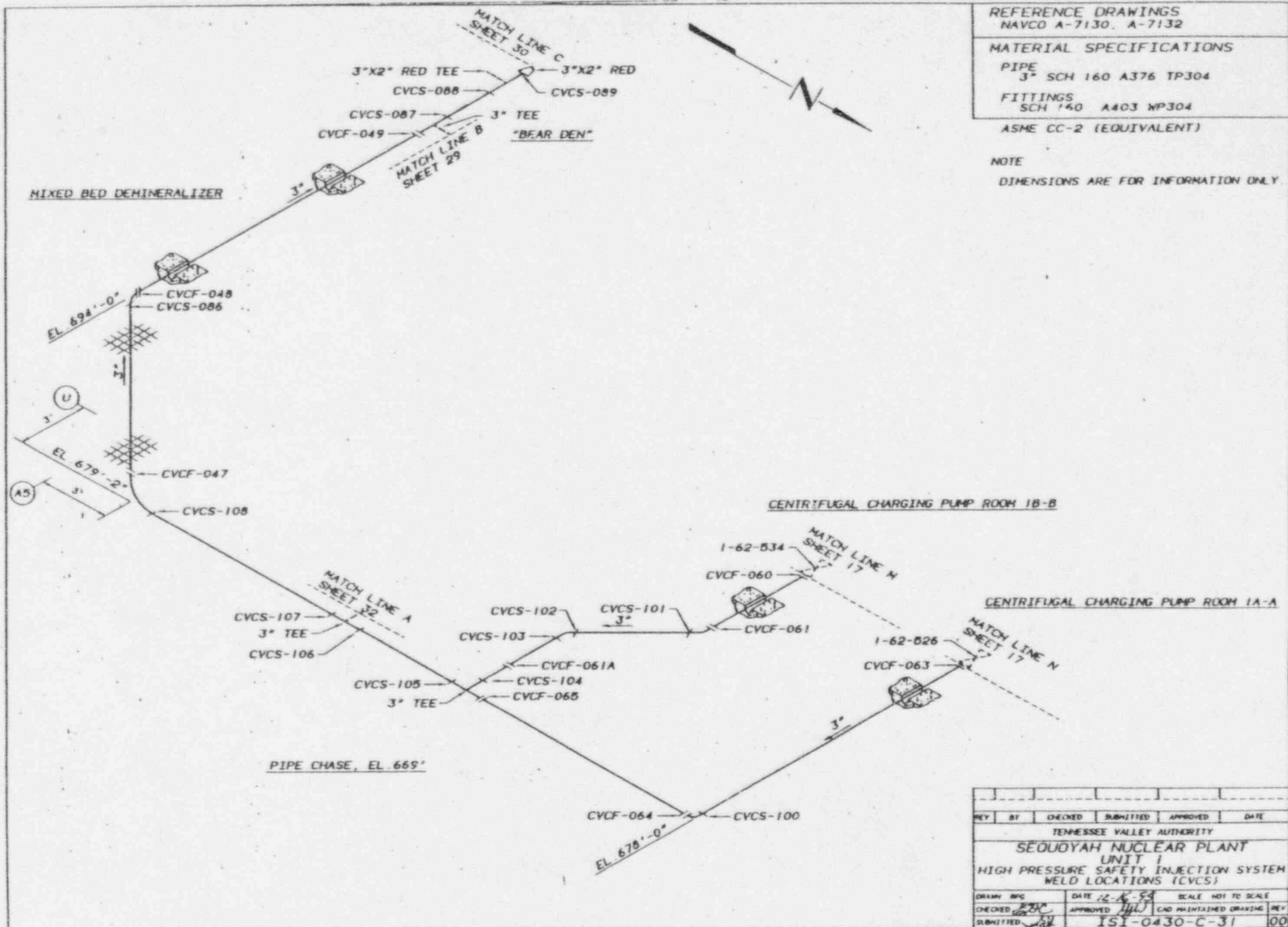
FITTINGS
2" SCH 160 A-182 F304

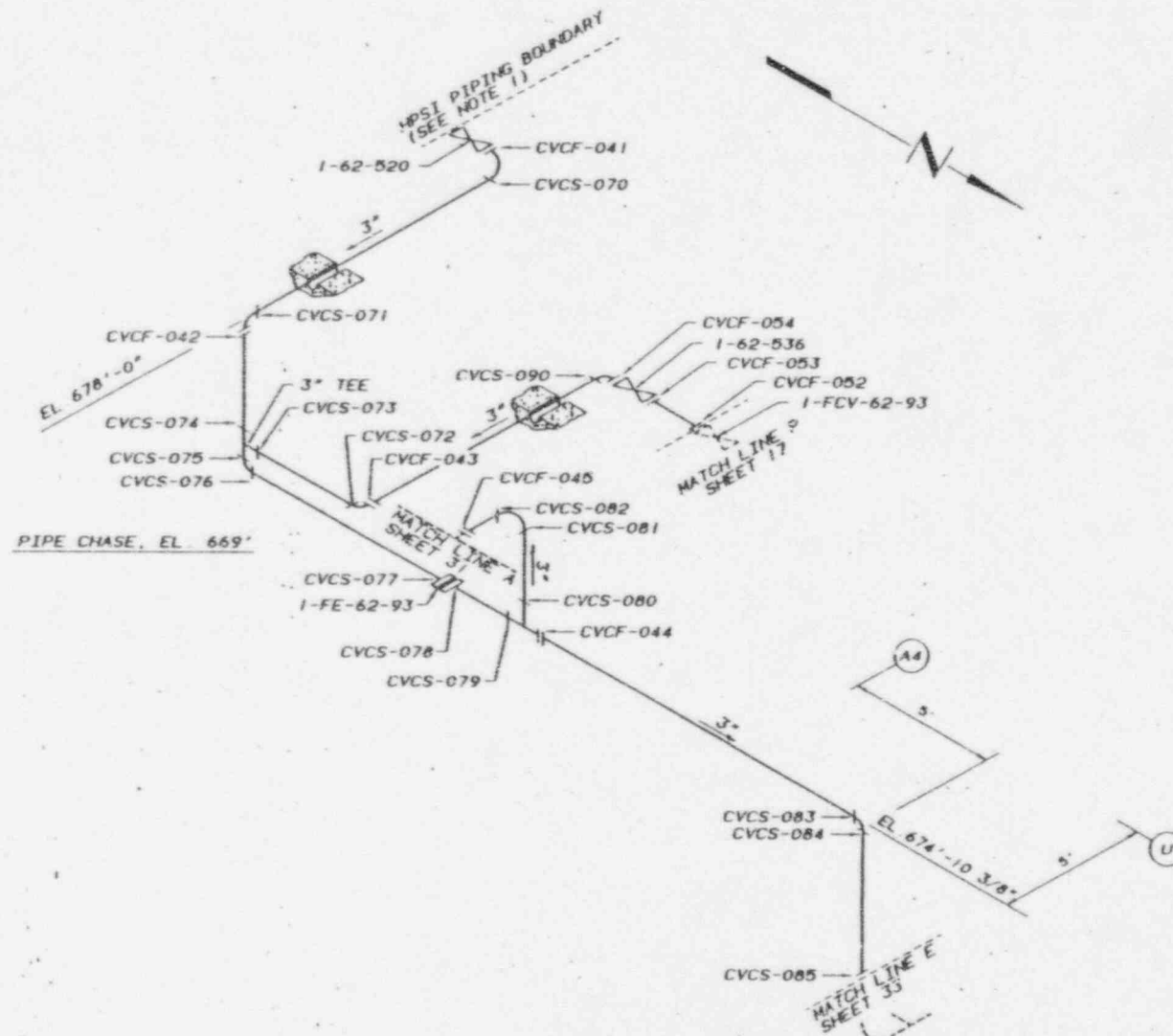
ASME EC-2 (EQUIVALENT)

NOTE:
DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCs)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED	APPROVED	12/16/85	END	MAINTAINED DRAWING REV	
SUBMITTED	12/16/85	ISI-0430-C-30	00		





REFERENCE DRAWINGS
NAVCO A-7130, A-7131

MATERIAL SPECIFICATIONS

PIPE
3" SCH 160 A-376 TP304

FITTINGS
3" SCH 160 A-403 WP304

FLANGE
3" SCH 160 A-182 F316

ASME CC-2 (EQUIVALENT)

NOTES:

1. VALVE 1-62-560 NOW CLOSED PD PUMP REMOVED FROM SERVICE
2. DIMENSIONS ARE FOR INFORMATION ONLY.

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE 12-16-85	SCALE	NOT TO SCALE		
CHECKED BY	APPROVED HLR	END MAINTAINED DRAWING			REV
SUBMITTED	ISI-0430-C-32	00			

REFERENCE DRAWINGS
NAVCO A-7133

MATERIAL SPECIFICATIONS

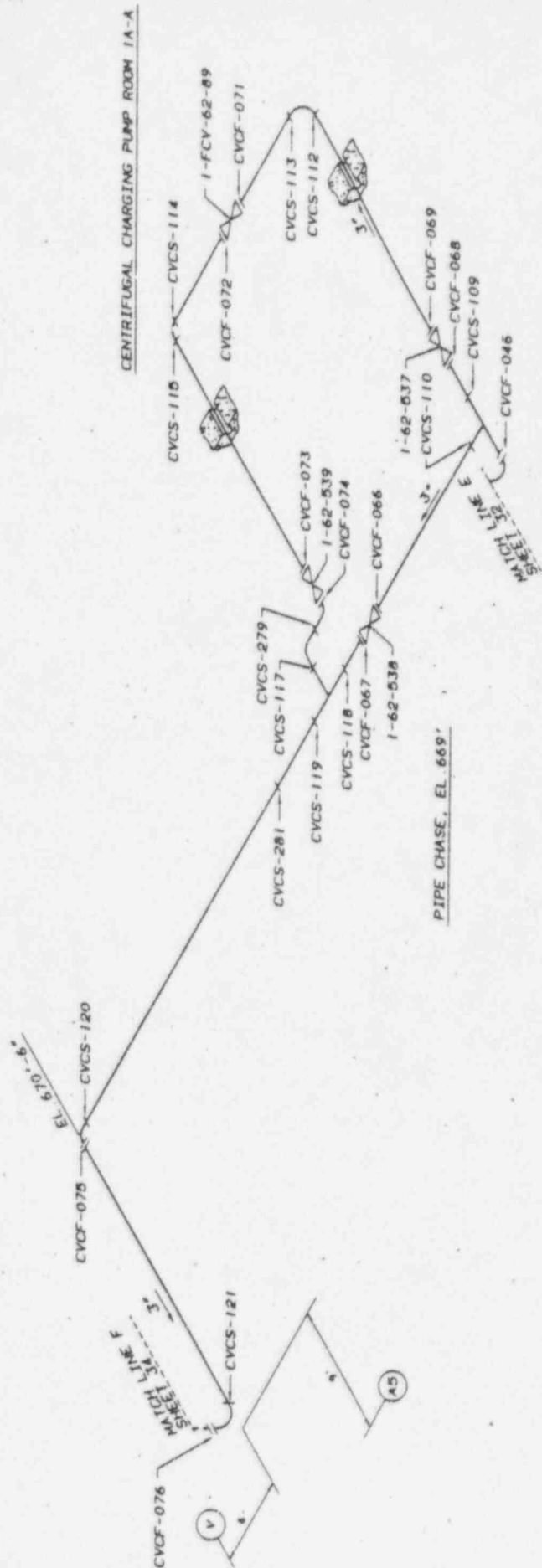
PIPE

3- SCH 160 A-3/8 IP304

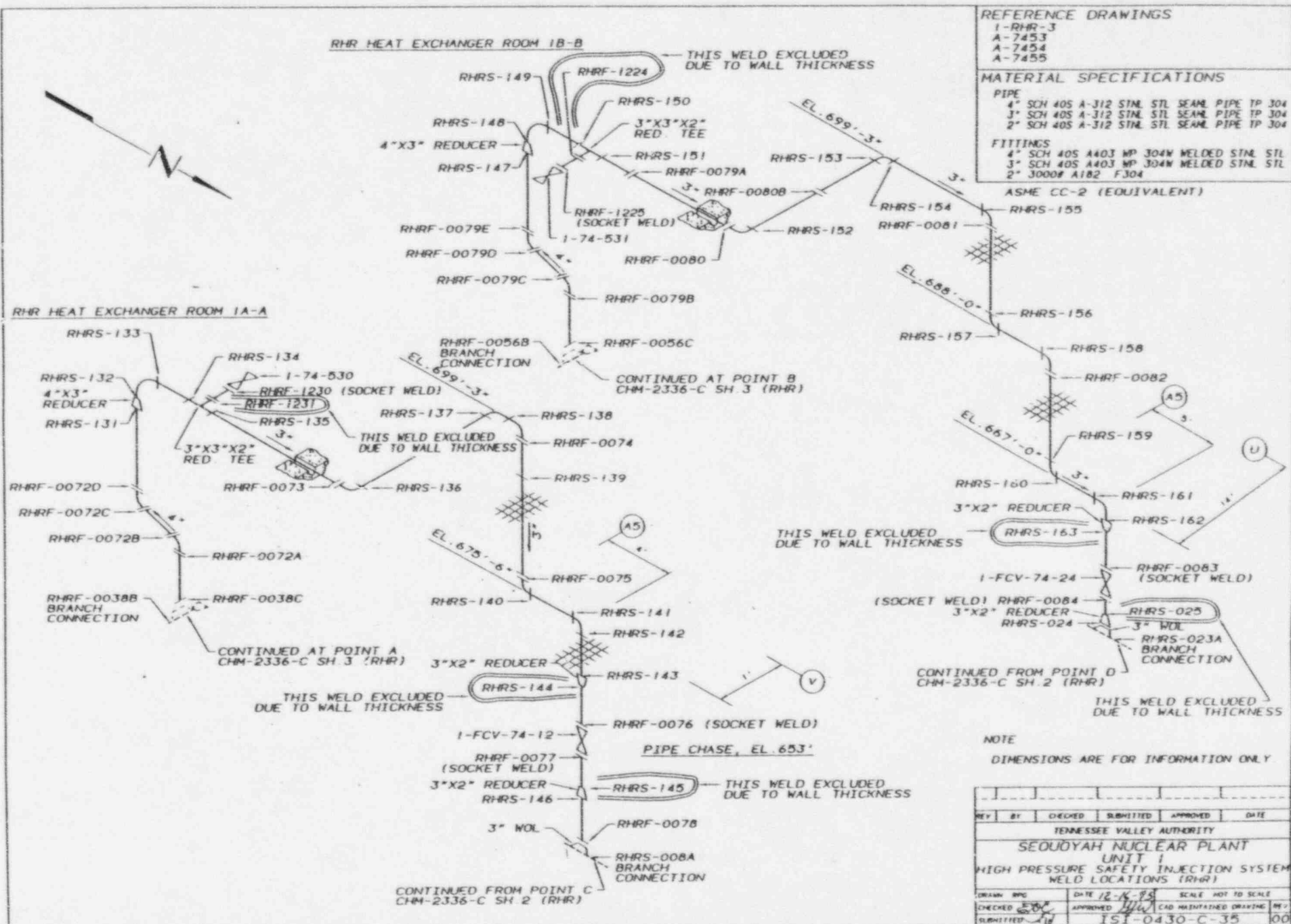
FILLINGS
J- SCH 160 A-403 WP304

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY.



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
<p> TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT UNIT 1 HIGH PRESSURE SAFETY INJECTION SYSTEM WELD LOCATIONS (CVC5) </p>					
DESIGN	SPS	DATE 12-18-85	SCALE	NOT TO SCALE	
CHECKED	BY	APPROVED	DATE		
<p> CADD INITIALIZED DATE 04-10-87 BY </p>					



REFERENCE DRAWINGS
 1-RHR-3
 A-7453
 A-7454
 A-7455

MATERIAL SPECIFICATIONS
 PIPE
 4" SCH 40S A-312 STL SEAL PIPE TP 304
 3" SCH 40S A-312 STL SEAL PIPE TP 304
 2" SCH 40S A-312 STL SEAL PIPE TP 304
 FITTINGS
 4" SCH 40S A403 WP 304W WELDED STL STL
 3" SCH 40S A403 WP 304W WELDED STL STL
 2" 3000# A182 F304

ASME CC-2 (EQUIVALENT)

RHRS-154
 RHRF-0081
 EL. 688'-0"
 RHRS-156
 RHRS-157
 RHRS-158
 RHRF-0082
 EL. 667'-0"
 RHRS-159
 RHRS-160
 3"X2" REDUCER
 RHRS-163
 RHRS-161
 RHRS-162
 RHRF-0083 (SOCKET WELD)
 1-FCV-74-24
 (SOCKET WELD) RHRF-0084
 3"X2" REDUCER
 RHRS-024
 RHRS-025
 3" WOL
 RHRS-023A
 BRANCH CONNECTION
 CONTINUED FROM POINT D
 CHM-2336-C SH. 2 (RHR)
 THIS WELD EXCLUDED
 DUE TO WALL THICKNESS

NOTE
 DIMENSIONS ARE FOR INFORMATION ONLY

THIS WELD EXCLUDED
 DUE TO WALL THICKNESS

THIS WELD EXCLUDED
 DUE TO WALL THICKNESS

THIS WELD EXCLUDED
 DUE TO WALL THICKNESS

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (RHR)					
DRAWN	WPC	DATE	12-18-88	SCALE	NOT TO SCALE
CHECKED	WPC	APPROVED	WPC	CAD	MAINTAINED DRAWING
SUBMITTED	WPC	DATE	12-18-88	SCALE	NOT TO SCALE

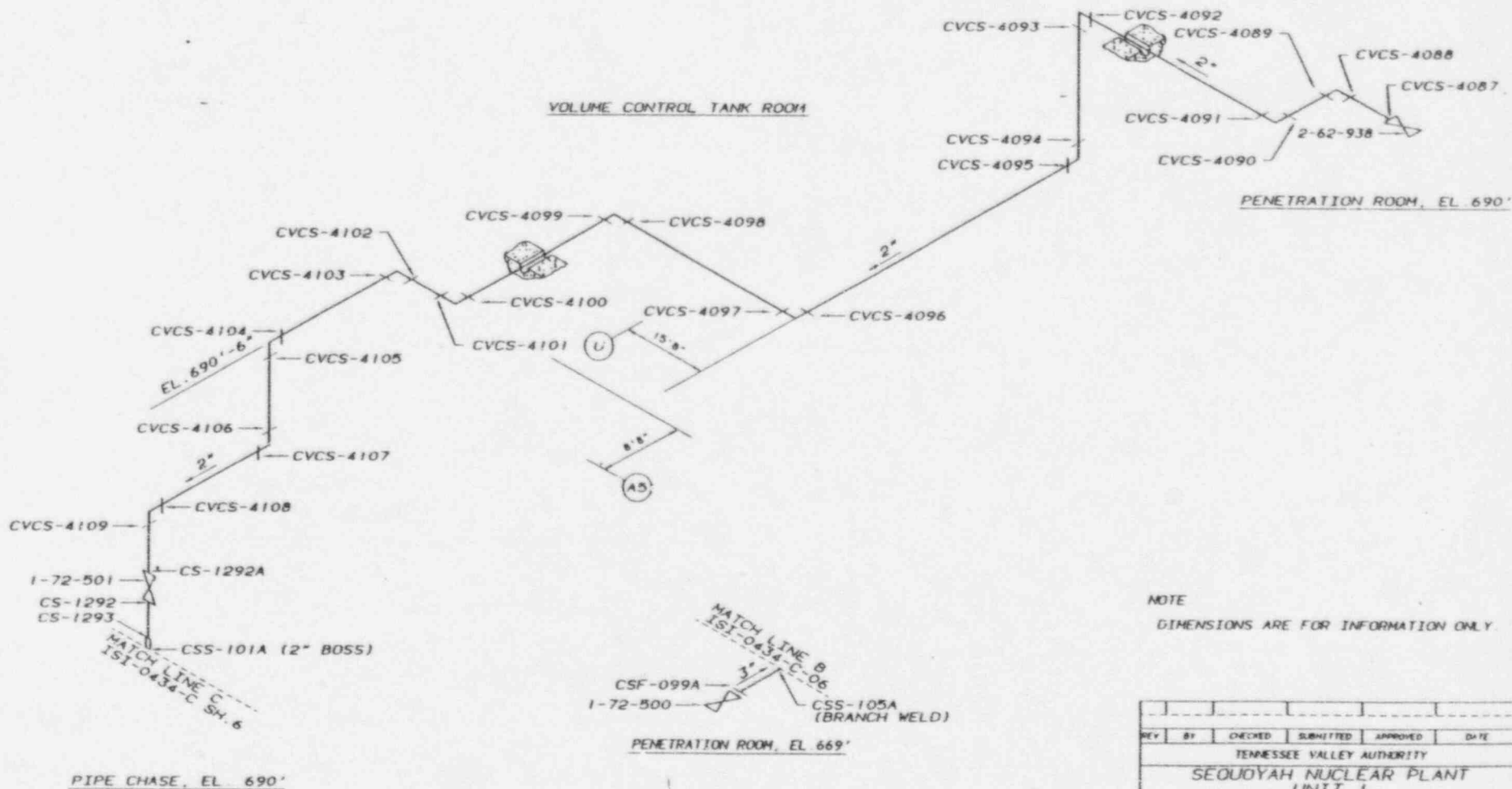
REFERENCE DRAWINGS
CVCS-28
CS-5

MATERIAL SPECIFICATIONS

PIPE
SCH 40 A-312 TP304 S.S.

FITTINGS
SCH 40 A-182 F304 3000# S.S.

ASME CC-2 (EQUIVALENT)



NOTE
DIMENSIONS ARE FOR INFORMATION ONLY.

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CONTAINMENT SPRAY)					
DRAWN BY	DATE	12-16-55	SCALE	NOT TO SCALE	
CHECKED	APPROVED		LEAD MAINTAINED DRAWING	REV	
SUBMITTED			ISI-0430-C-36	00	

REFERENCE DRAWINGS
A-7128

MATERIAL SPECIFICATIONS

PIPE

8" & 6" SCH 40S A-312 TP304 WELDED

FITTINGS

SCH 40S A-403 WP304W WELDED

8"X8"X4" TEE SCH 40S
4" OUTLET CTR TO SCH 10S

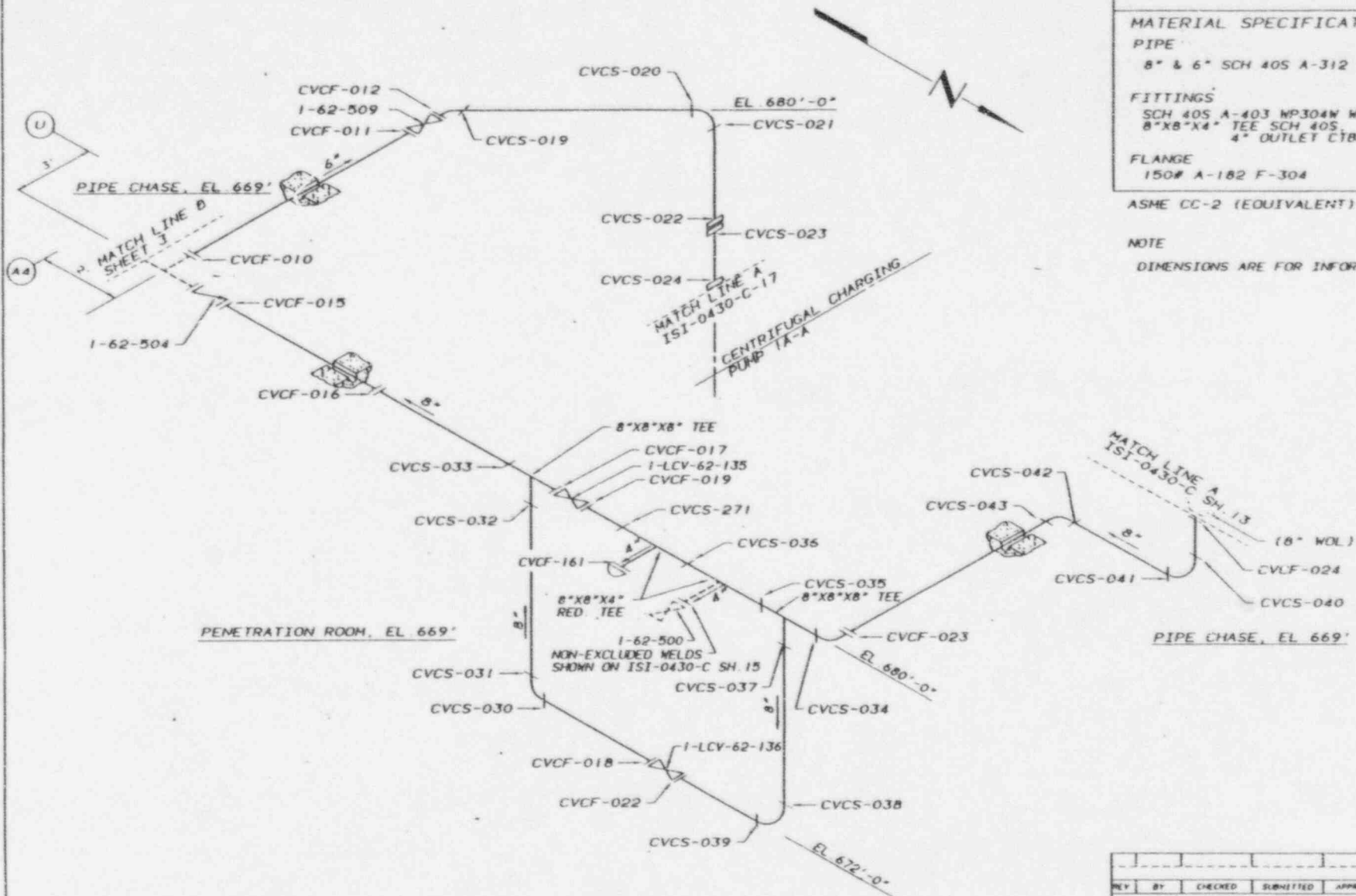
FLANGE

150# A-182 F-304

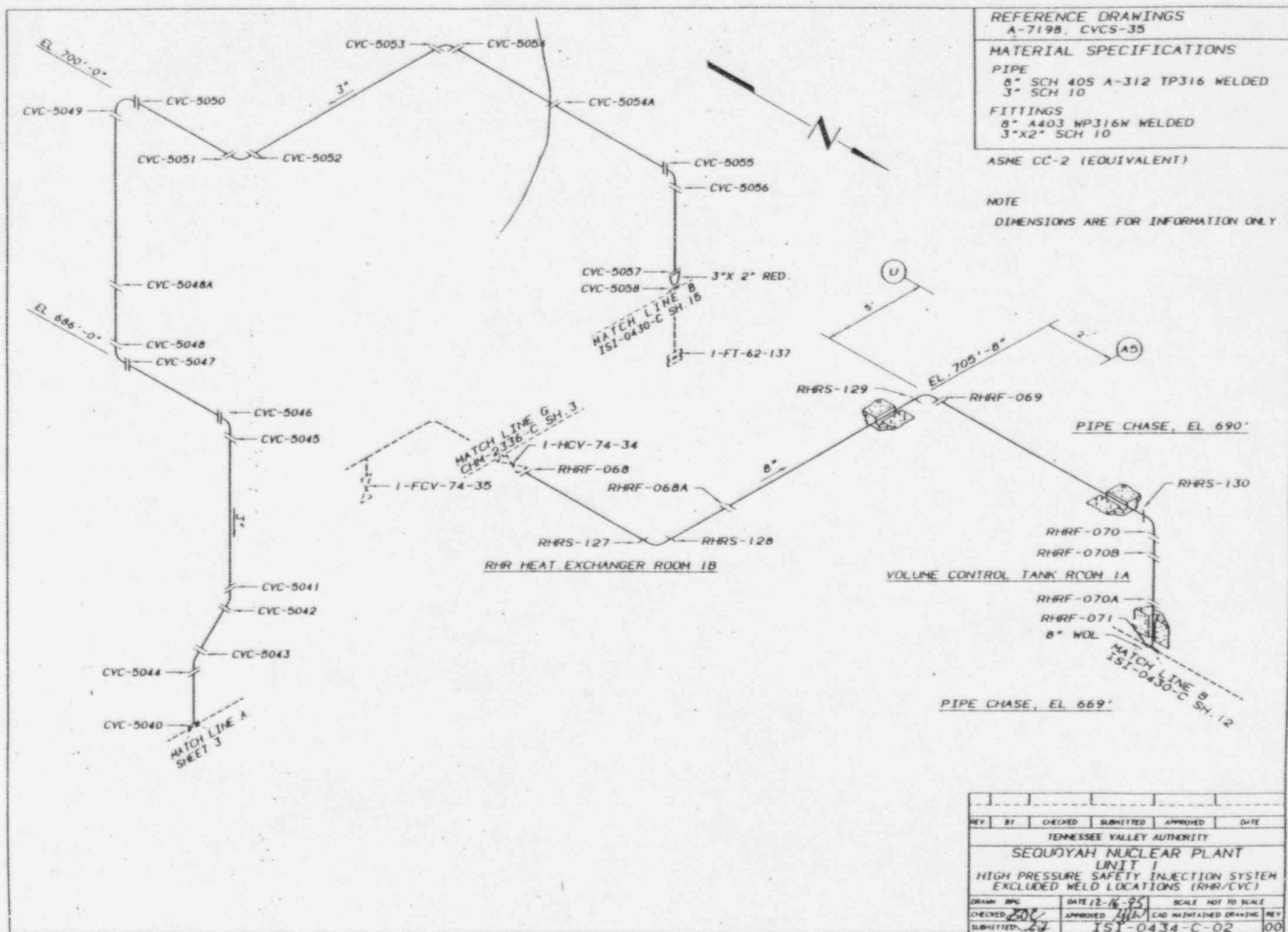
ASME CC-2 (EQUIVALENT)

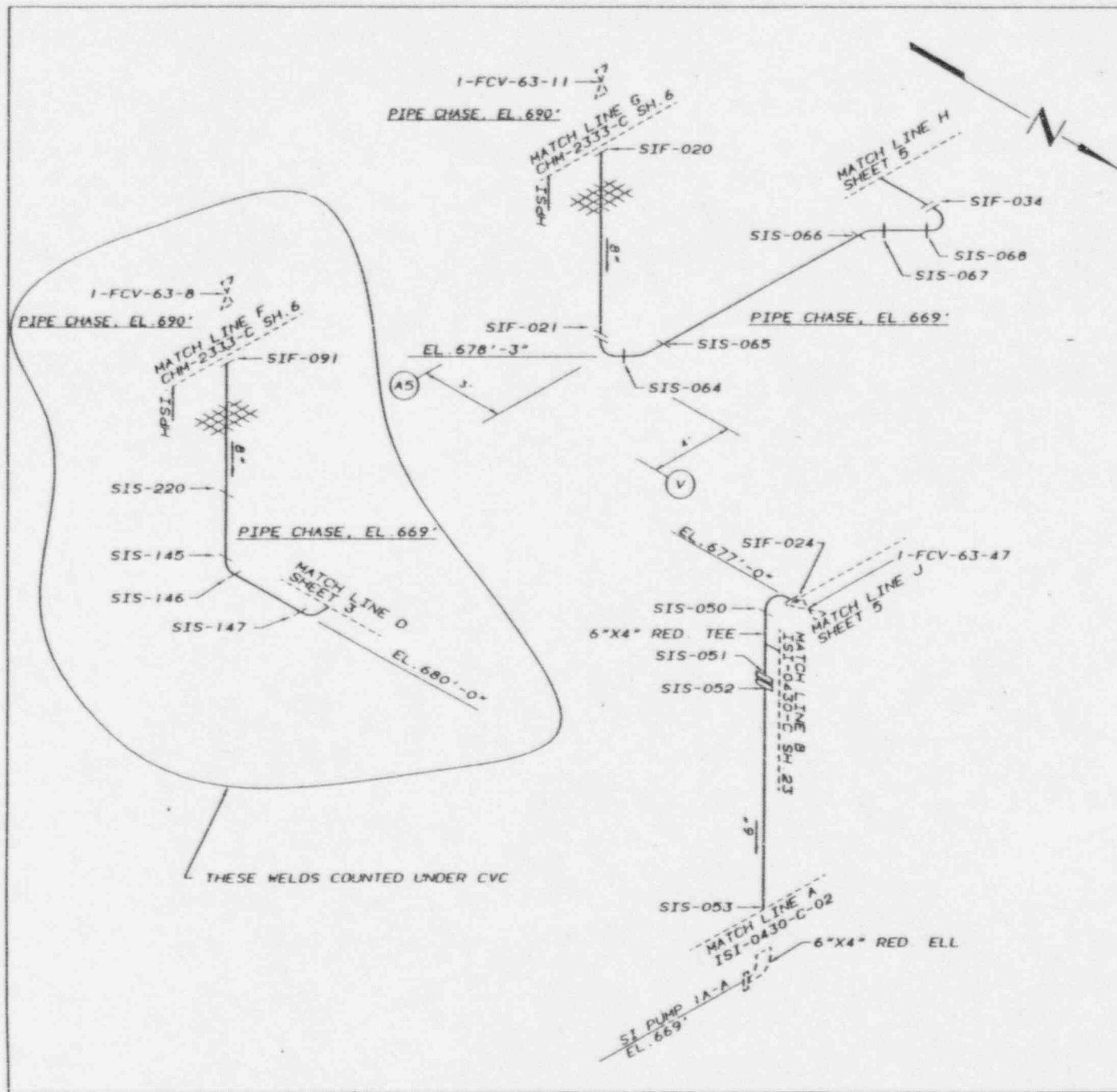
NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEDOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (CVCS/SI)					
DRAWN	WPD	DATE	12-1-85	SCALE	NOT TO SCALE
CHECKED	WPD	APPROVED	WPD	CAD MAINTAINED DRAWING	REV
SUBMITTED	WPD	ISI-0434-C-01	100		





REFERENCE DRAWINGS

A-7144
A-7145
A-7148

MATERIAL SPECIFICATIONS

PIPE
8" SCH 40S A-312 TP304 WELDED
6" SCH 40S A-312 TP304 WELDED
FITTINGS
SCH 40S A-403 WP304W WELDED
6"X4" RED ELL SCH 40S A-403 WP304
FLANGE
A-182 F 304

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (SAFETY INJECTION/CVC)					
DRAWN BY	DATE 12-16-85		SCALE NOT TO SCALE		
CHECKED	APPROVED		CAD MAINTAINED DRAWING		
SUBMITTER	ISI-0434-C-04		00		

REFERENCE DRAWINGS
A-7145

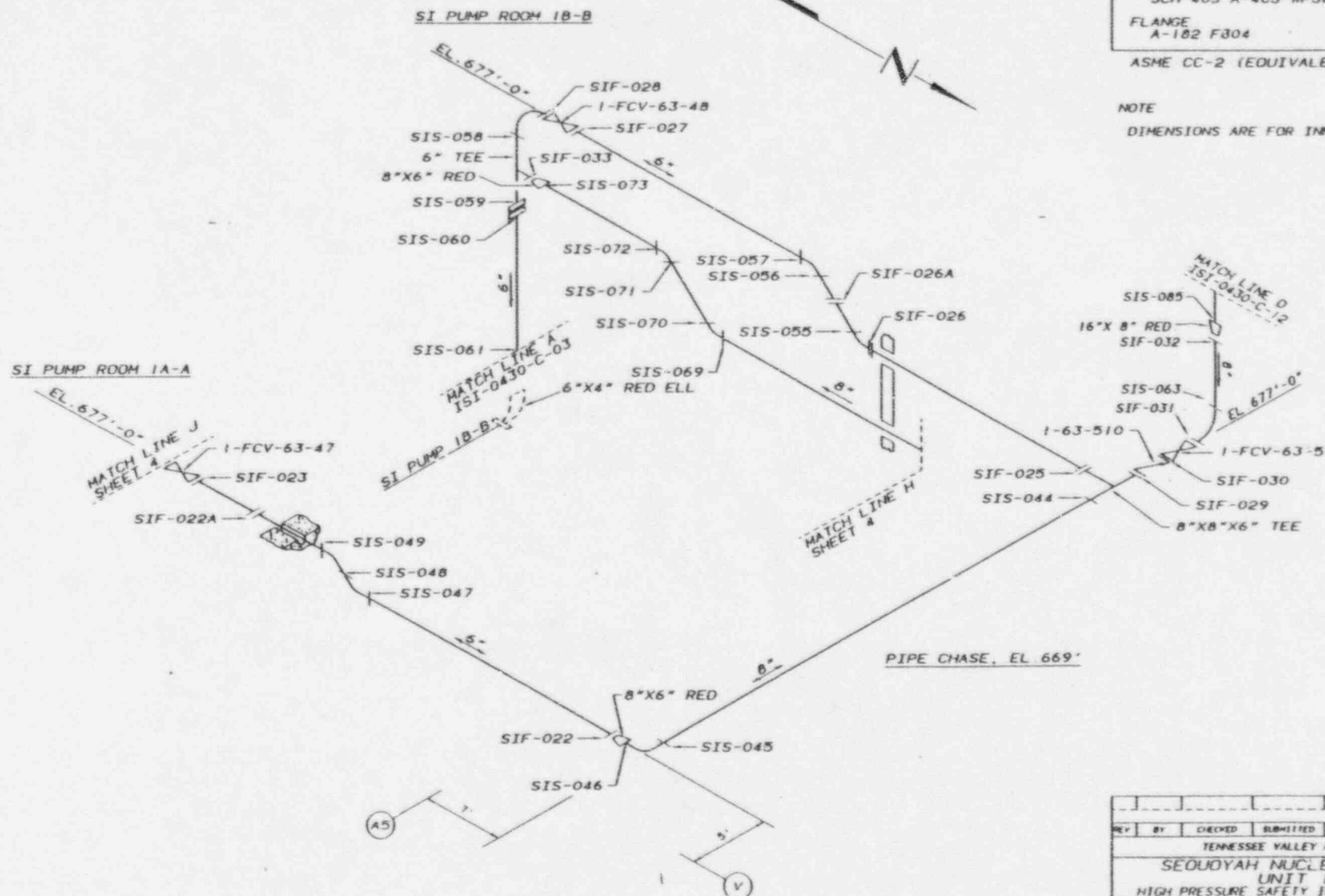
MATERIAL SPECIFICATIONS

PIPE
8" 66" SCH 40S A-312 TP304 WELDED
FITTINGS
SCH 40S A-403 WP304
FLANGE
A-182 F304

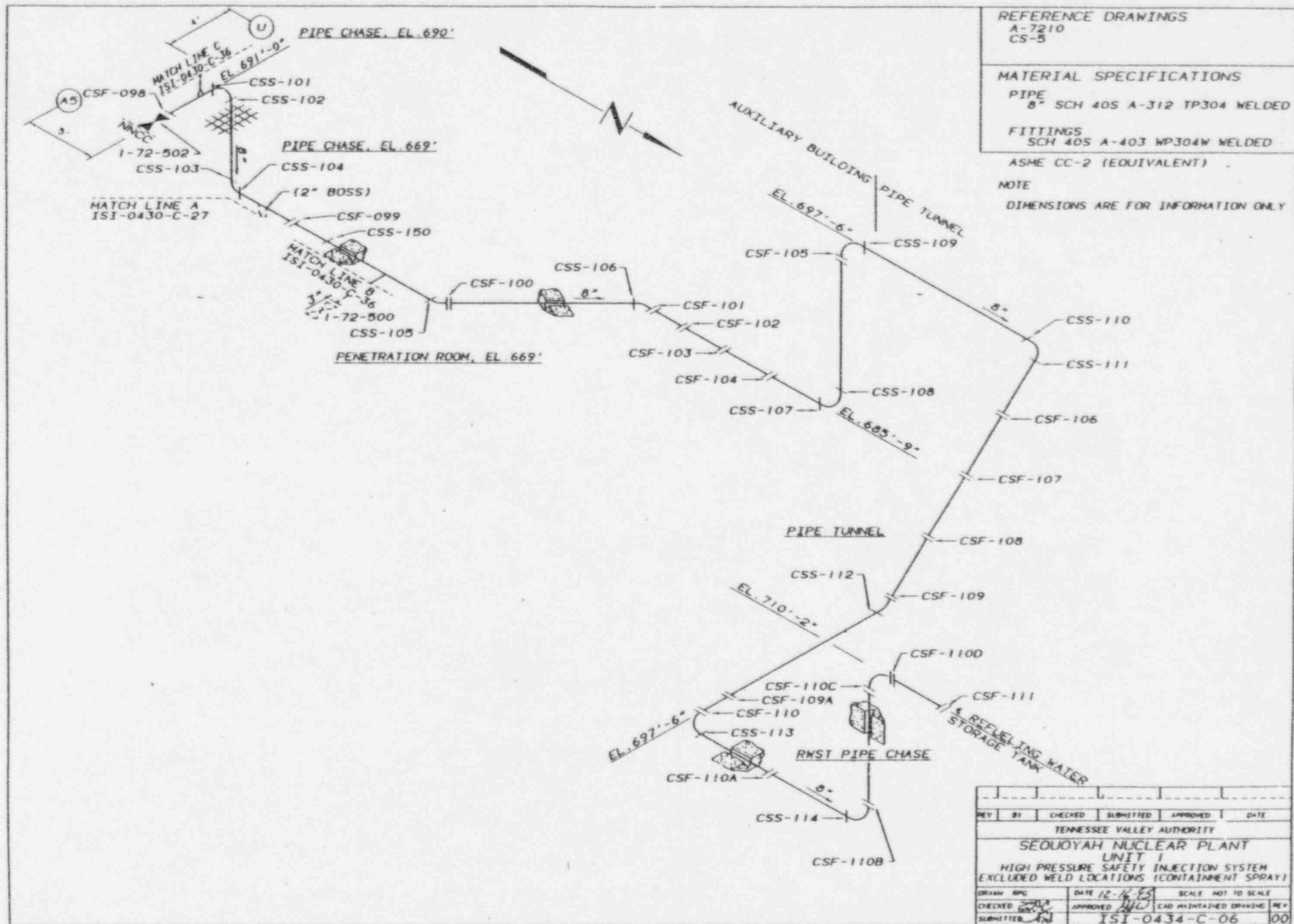
ASME CC-2 (EQUIVALENT)

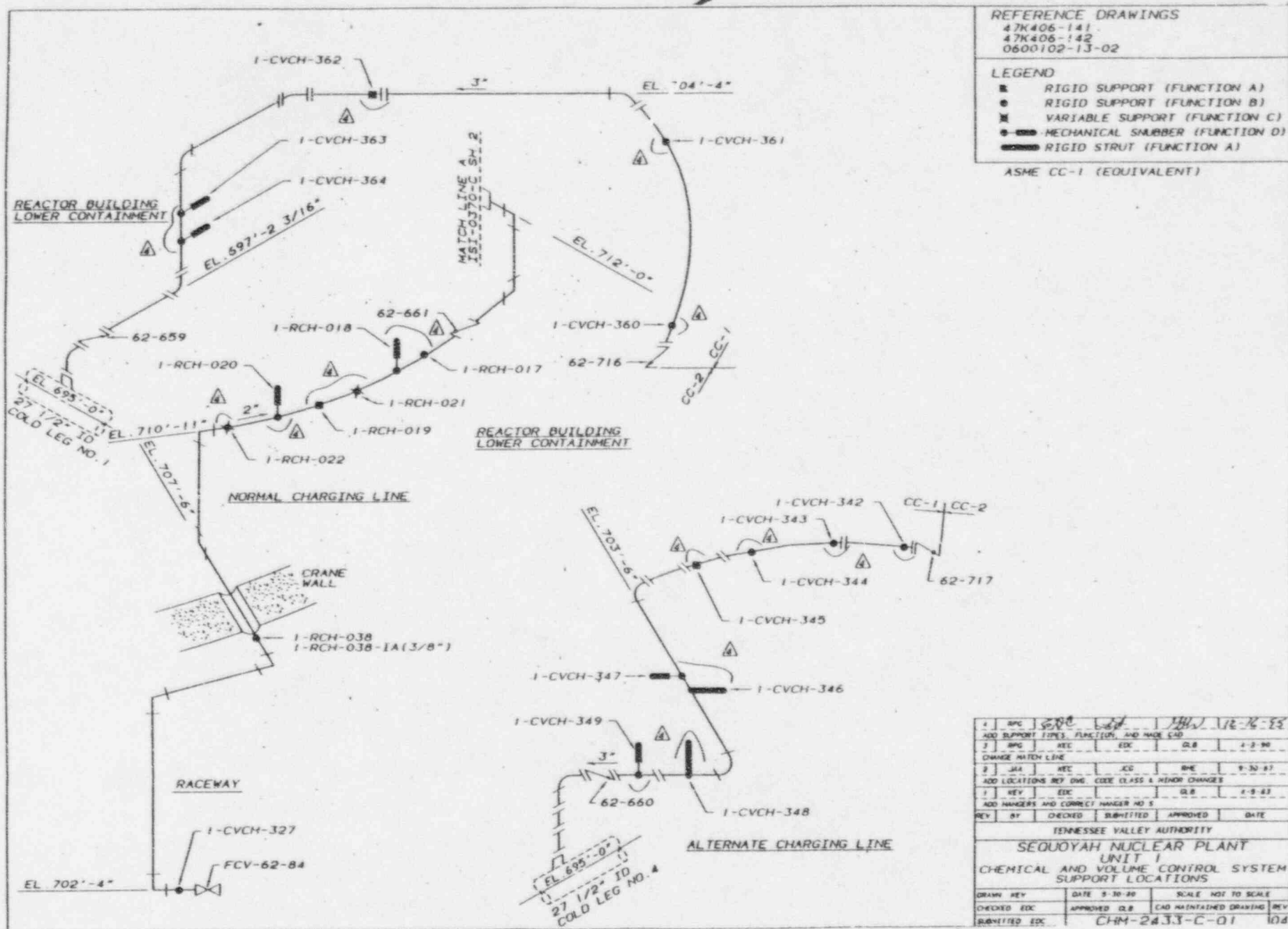
NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (SAFETY INJECTION)					
DRAWN	SPC	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	SPC	APPROVED	SPC	CAD MAINTAINED DRAWING	REV
SUBMITTER	SPC	ISI-0434-C-05	00		



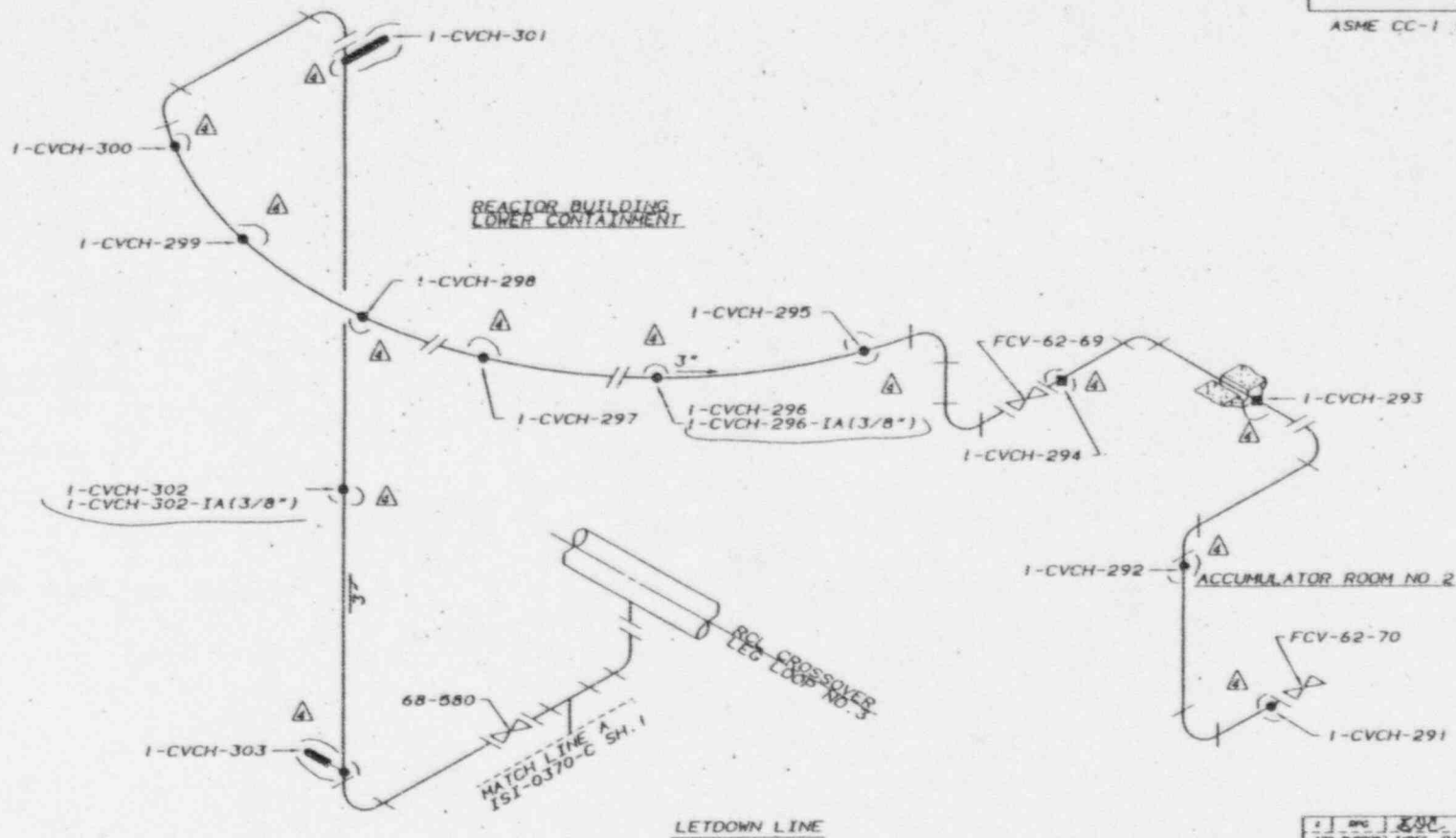


REFERENCE DRAWINGS
0600102-08-10

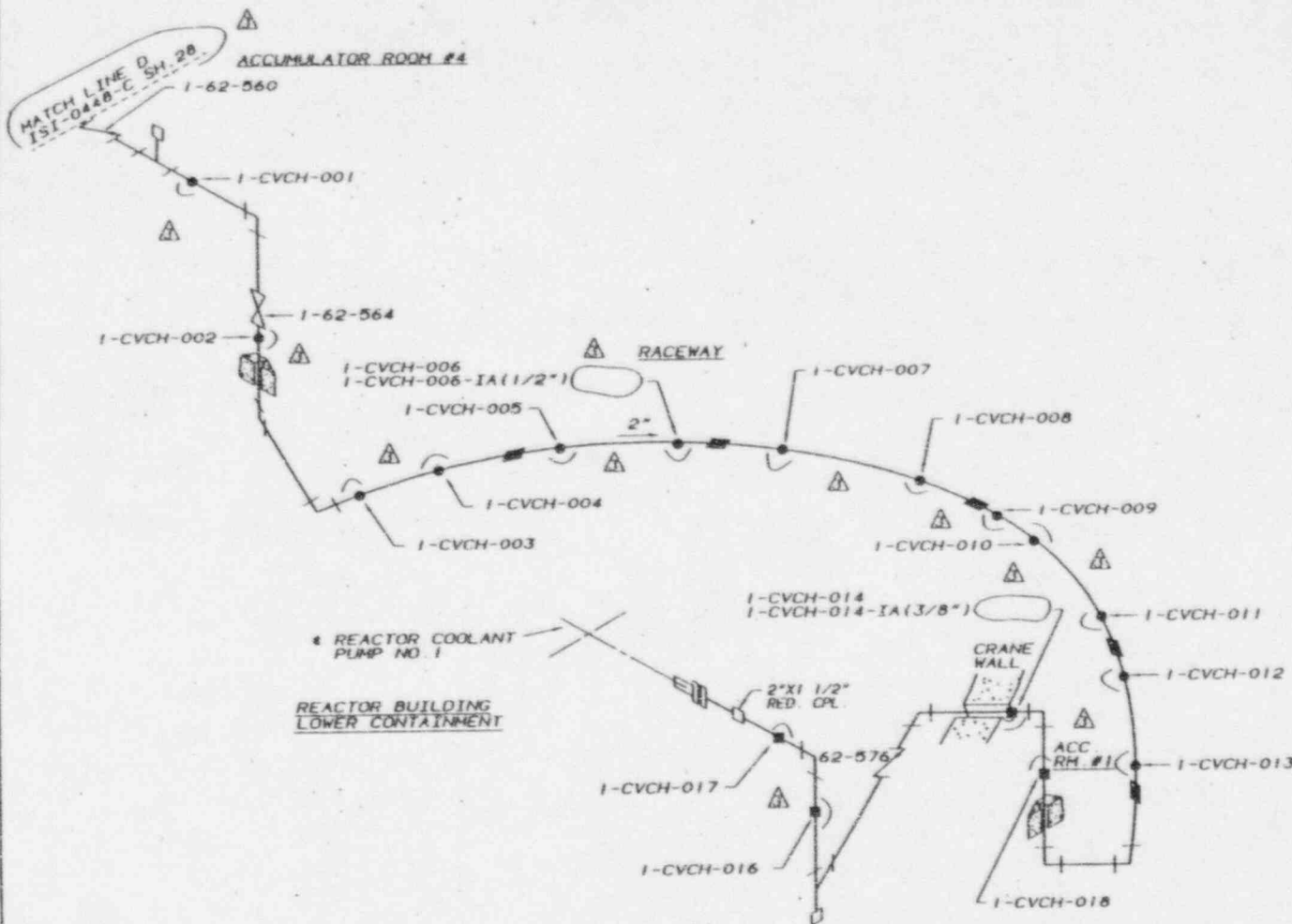
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-1 (EQUIVALENT)



1	REC	EDC	CLB	11/2/85
ADD SUPPORT TYPES, FUNCTION, I.A.'S, & MADE CAD				
2	REC	EDC	CLB	4-2-80
ADD MATCH LINE A				
3	REC	JCO	SHC	9-30-87
DELETED SPECS ADD LOCATIONS, REF DNGS, CODE CLASS, & MINOR CHANGES				
1	REV	EDC	CLB	4-3-83
CORRECT HANGER NO				
REV	BY	CHECKED	SUBMITTED	APPROVED
DATE				
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
CHEMICAL AND VOLUME CONTROL SYSTEM				
SUPPORT LOCATIONS				
DRAWN REV	DATE	5-2-80	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED CLB	CAD MAINTAINED DRAWING	REV	
SUBMITTED EDC	CHM-2433-C-02	104		



REFERENCE DRAWINGS

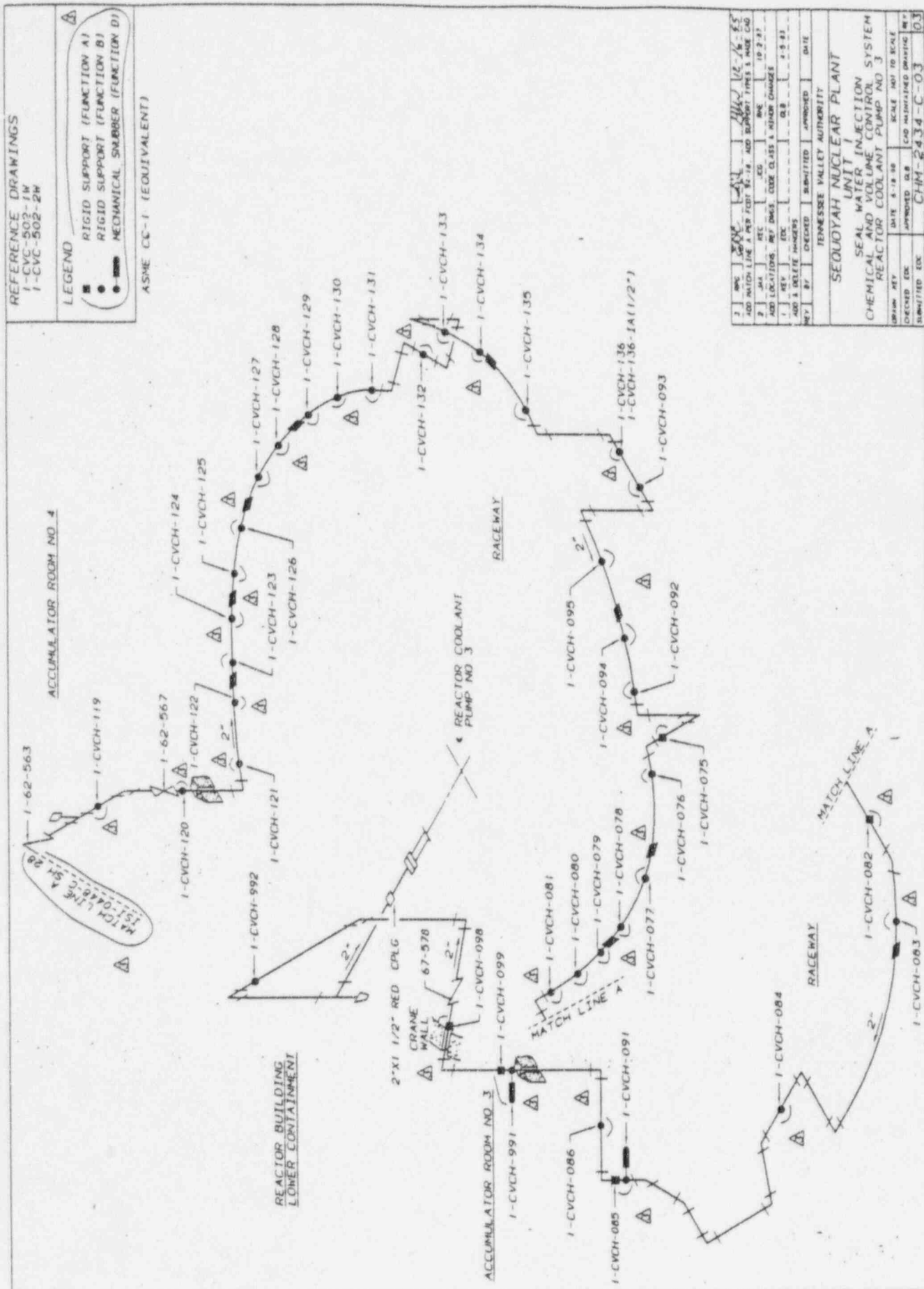
0600102-08-01
(1-CVC-500-1W)

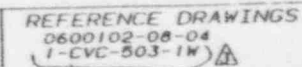
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

ASME CC-1 (EQUIVALENT)

3	REV	ADD MATCH LINE D PER FEED 21-12. ADD SUPPORT TYPES & FUNCTION. REFERENCE DRAWING. REMOVE (EMPTY) NOTE AND MAKE CAD.	12-1-91		
2	REV	ADD E-EMPTY NOTE.	10-8-87		
1	REV	ADD LOCATIONS, CODE CLASSES, REF. DIMS. & DELETE SPECS CORRECT FOR BRITISH AND MINOR CHANGES.			
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 1					
SEAL WATER INJECTION					
CHEMICAL AND VOLUME CONTROL SYSTEM					
REACTOR COOLANT PUMP NO. 1					
DRAWN	REV	DATE	2-17-80	SCALE	NOT TO SCALE
CHECKED	EDC	APPROVED	QLB	CAD MAINTAINED DRAWING	REV
SUBMITTED				CHM-2434-C-01	03

[illegible]



- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-1 (EQUIVALENT)

3	RPG	JEG	JEG	VE-16-93
ADD MATCH LINE C PER FOOT 14-18 AND ADD SUPPORT TYPES. REFERENCE DRAWINGS. REMOVE EXEMPT NOTE 1 RAGE CAD				
2	PWB	RPG	JEG	12-0-91
EXEMPT TWO 1A'S. REMOVE SUPPORT UNACCESSIBLE				
1	JJA	JEG	RHC	9-24-87
ADD REF DIMS & MINOR CHANGES & DELETE MAT'L SPECS. ADD 1A BILLS				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUEYAH NUCLEAR PLANT				
UNIT 1				
SEAL WATER INJECTION				
CHEMICAL AND VOLUME CONTROL SYSTEM				
REACTOR COOLANT PUMP NO 4				
DRAWN REV		DATE 4-18-80	SCALE NOT TO SCALE	
CHECKED EDC		APPROVED GLB	CAD MAINTAINED DRAWING	REV
SUBMITTED		CHM-243-C-04		03

MATCH LINE C
SHEET 5, CC-2

ACCUMULATOR ROOM NO. 4

FCV-74-2

1-RHRH-001
EL. 695'

REACTOR BUILDING
LOWER CONTAINMENT

1-RHRH-002
EL. 687'

EL. 683'-6"

HOT LEG
LOOP NO. 4

SAFETY INJECTION
FROM CHM-2436-C
SHEET 7

14"X14"X6"
RED TEE

1-RHRH-004
1-RHRH-004-IA (.719")

1-RHRH-007
1-RHRH-007-IA (1")

1-RHRH-005
1-RHRH-005-IA (.906")

1-RHRH-006

EL. 683'-6"

FCV-74-1

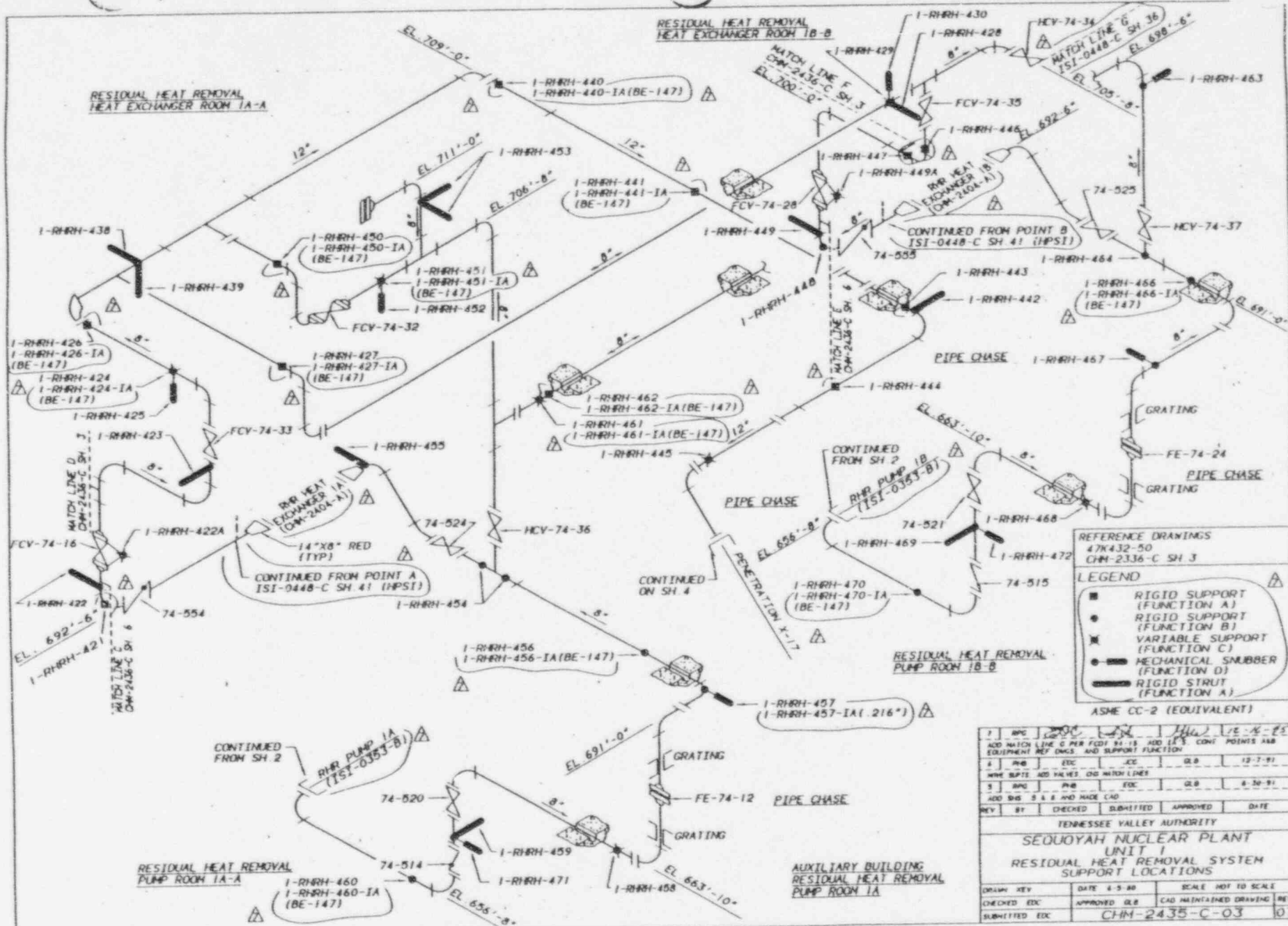
REFERENCE DRAWINGS
CHM-2336-C SH. 1
CONTRACT NO. TV-42499A
DRAWING NO. 0600102-03-01

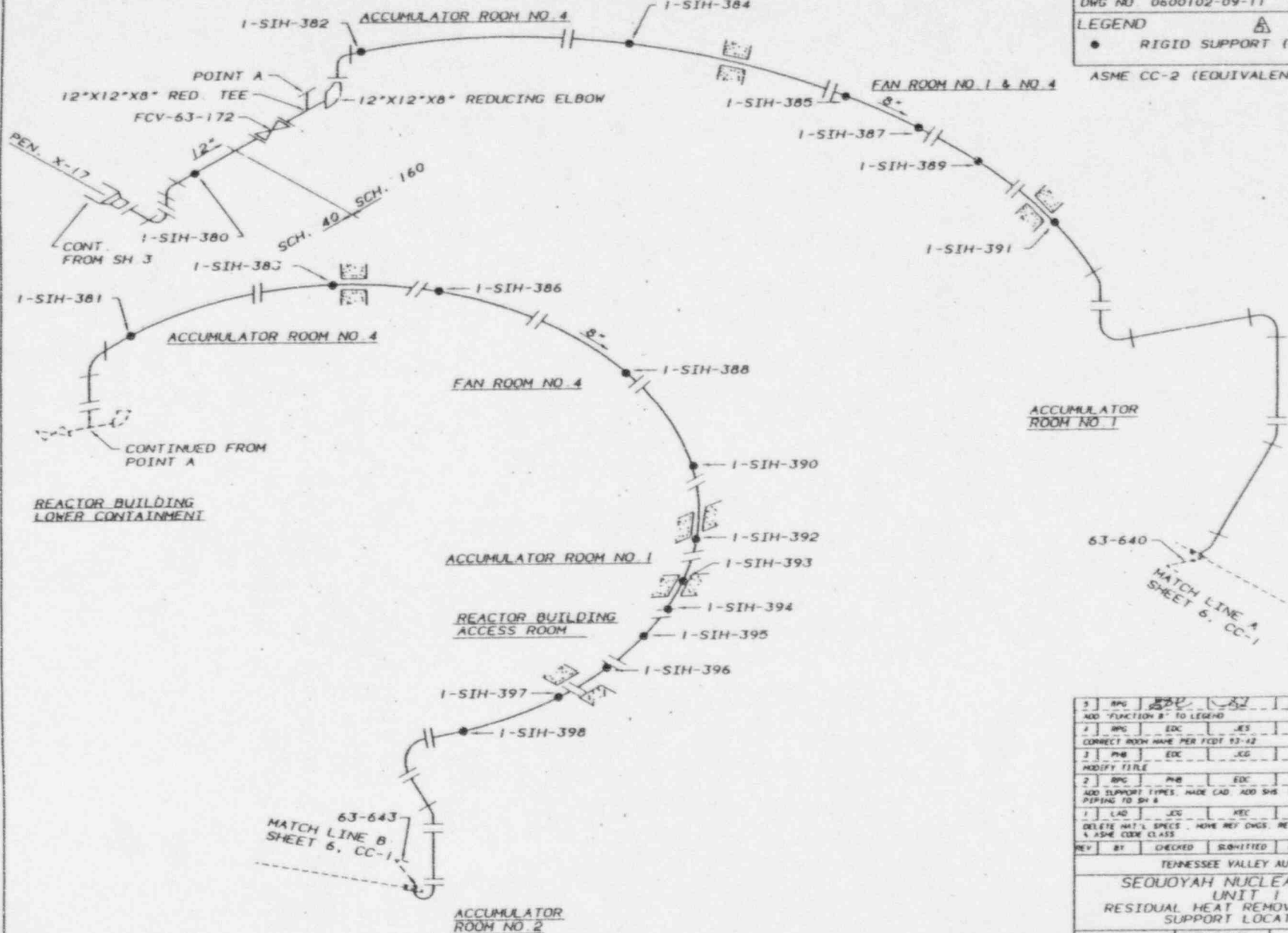
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- HYDRAULIC SNUBBER (FUNCTION D)

ASME CC-1 (EQUIVALENT)

4	RPG	CHM-2436-C	SH. 1	6-30-91
ADD SUPPORT FUNCTION FOR 2ND INTERVAL				
3	RPG	PHB	ETC	6-30-91
DELETE 1-RHRH-003, ADD SUPPORT TIMES ADD SH. 3, SEE MOVE CC-2 PIPING TO SH. 3				
2	RPG	JCG	RHE	6-7-89
ADD ASME CODE CLASS, LOCATIONS, AND DELETE MAT'L SPECS MOVE REF. ENCL.				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
RESIDUAL HEAT REMOVAL SYSTEM				
SUPPORT LOCATIONS				
DRAWN	REV	DATE	SCALE	NOT TO SCALE
CHECKED	ETC	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED			CHM-2435-C-01	04

[illegible]



REFERENCE DRAWINGS

CHM-2336-C SH 4
CONTRACT NO TV-42499A
DWG NO 0600102-09-11

LEGEND

- RIGID SUPPORT (FUNCTION B)
- △ ASME CC-2 (EQUIVALENT)

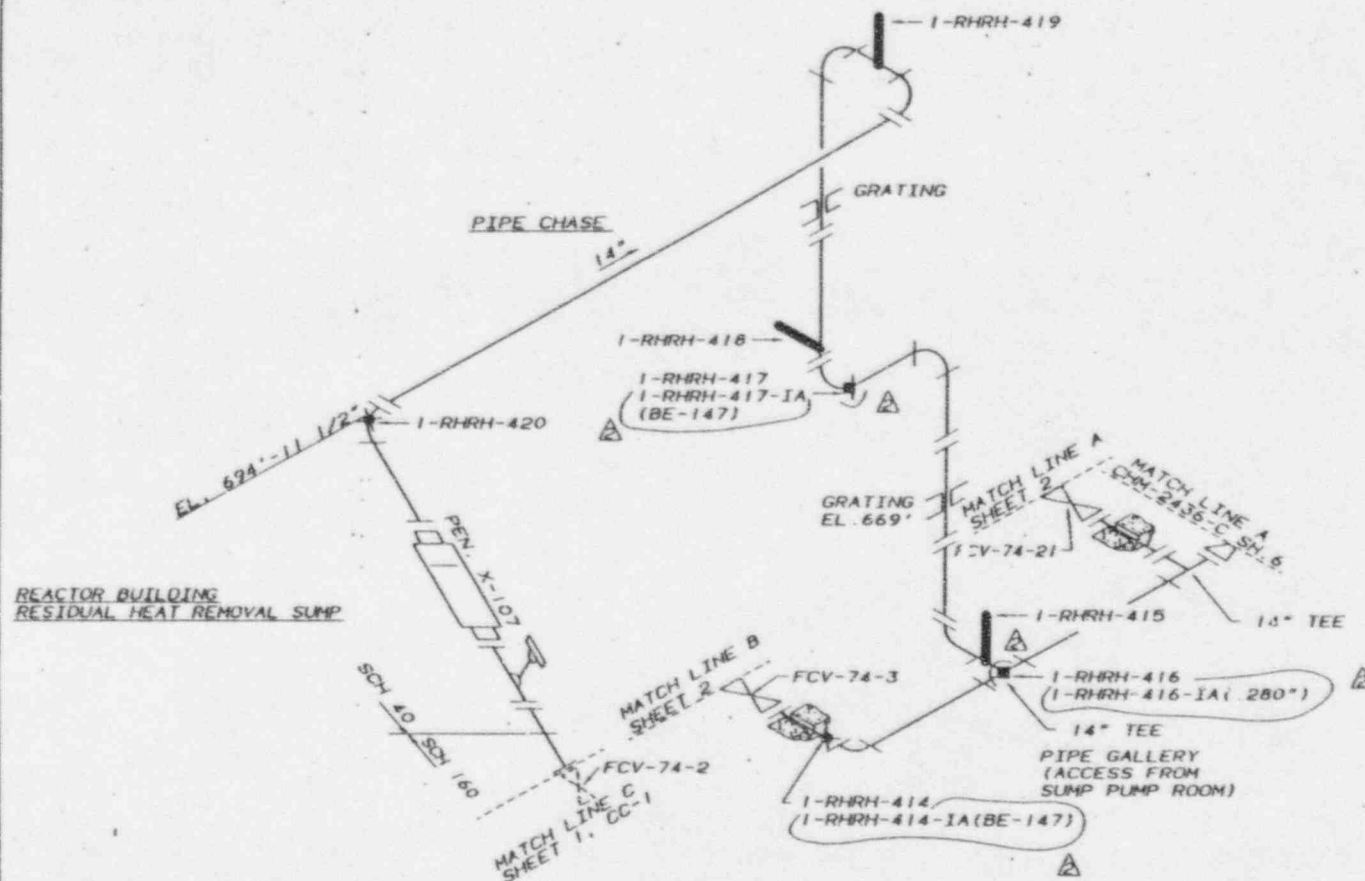
3	APC	EDC	JES	QLV	7-15-93
ADD "FUNCTION B" TO LEGEND					
2	APC	EDC	JES	QLV	7-15-93
CORRECT ROOM NAME PER FCOT 93-42					
2	PHB	EDC	JES	QLB	12-7-91
MODIFY TITLE					
2	APC	PHB	EDC	QLB	9-3-91
ADD SUPPORT TYPES, MAKE CAD, ADD SHB, SHB. 5 MOVE CC-1 PIPING TO SH 6					
1	LAD	JES	REC	RHE	9-17-87
DELETE NAT'L SPECS - HAVE REF DWGS, REVISE FOR PRESEN					
A ASME CODE CLASS					
REV	BY	CHECKED	DESIGNED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
RESIDUAL HEAT REMOVAL SYSTEM					
SUPPORT LOCATIONS					
DRAWN	REV	DATE	8-8-90	SCALE NOT TO SCALE	
CHECKED	EDC	APPROVED	QLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	CHM-2435-C-04 05				

REFERENCE DRAWINGS
CHM-2336-C 5H 2
NAVCO A-7197

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



2	APC	ADD 24\" S AND SUPPORT FUNCTION	12-16-91
1	PHB	EDC	12-9-91
REVISE TITLE & MATCH LINE B			
REV	BY	CHECKED	SUBMITTED
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 1			
RESIDUAL HEAT REMOVAL SYSTEM			
SUPPORT LOCATIONS			
DRAWN	APC	DATE	9-4-91
CHECKED	PHB	APPROVED	DLB
SUBMITTED	EDC	CAD MAINTAINED DRAWING	REV
CHM-2435-C-05 02			

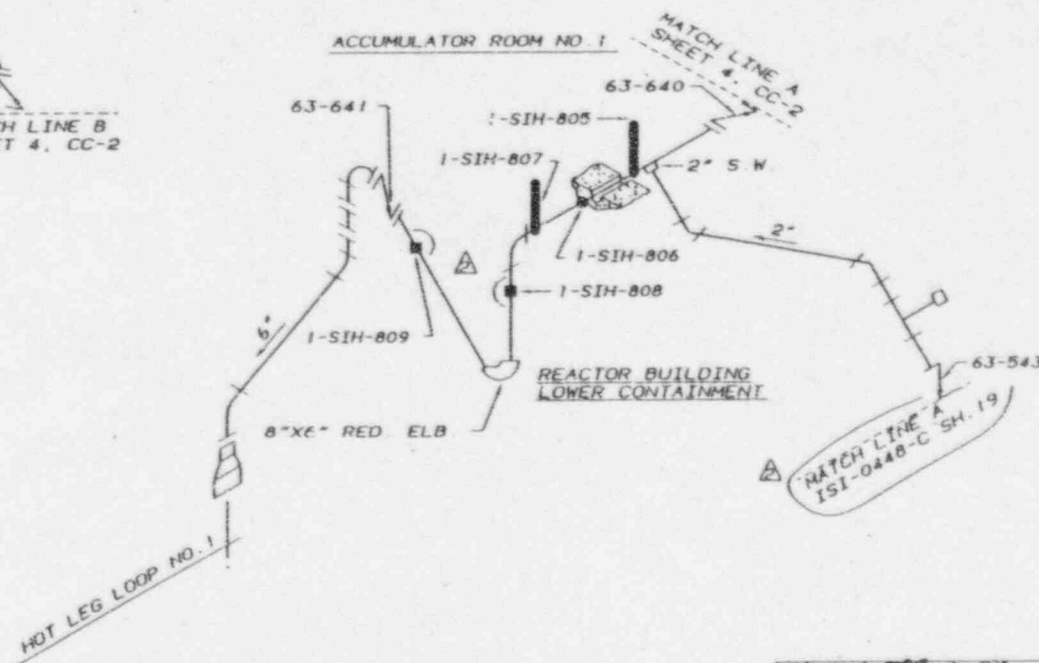
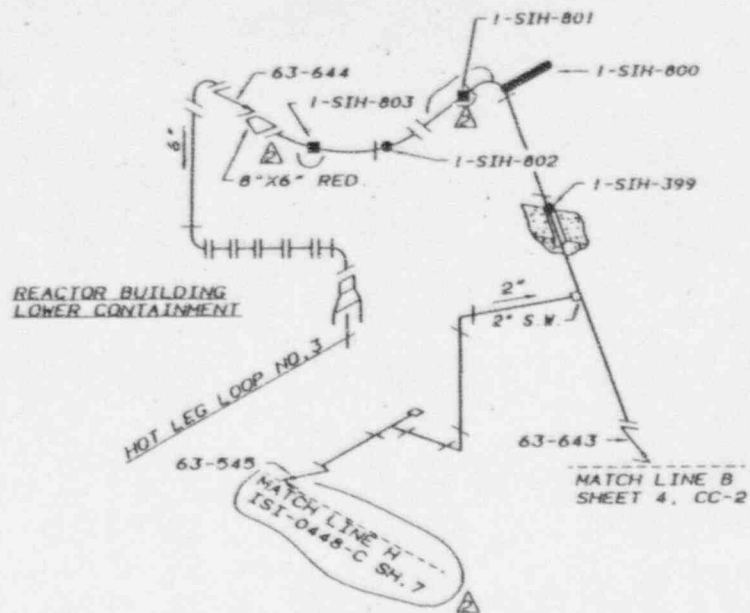
REFERENCE DRAWINGS

CHN-2336-C SH 4
CONTRACT NO. TV-42499A
DWG NO. 0600102-09-11

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)




ASME CC-1 (EQUIVALENT)

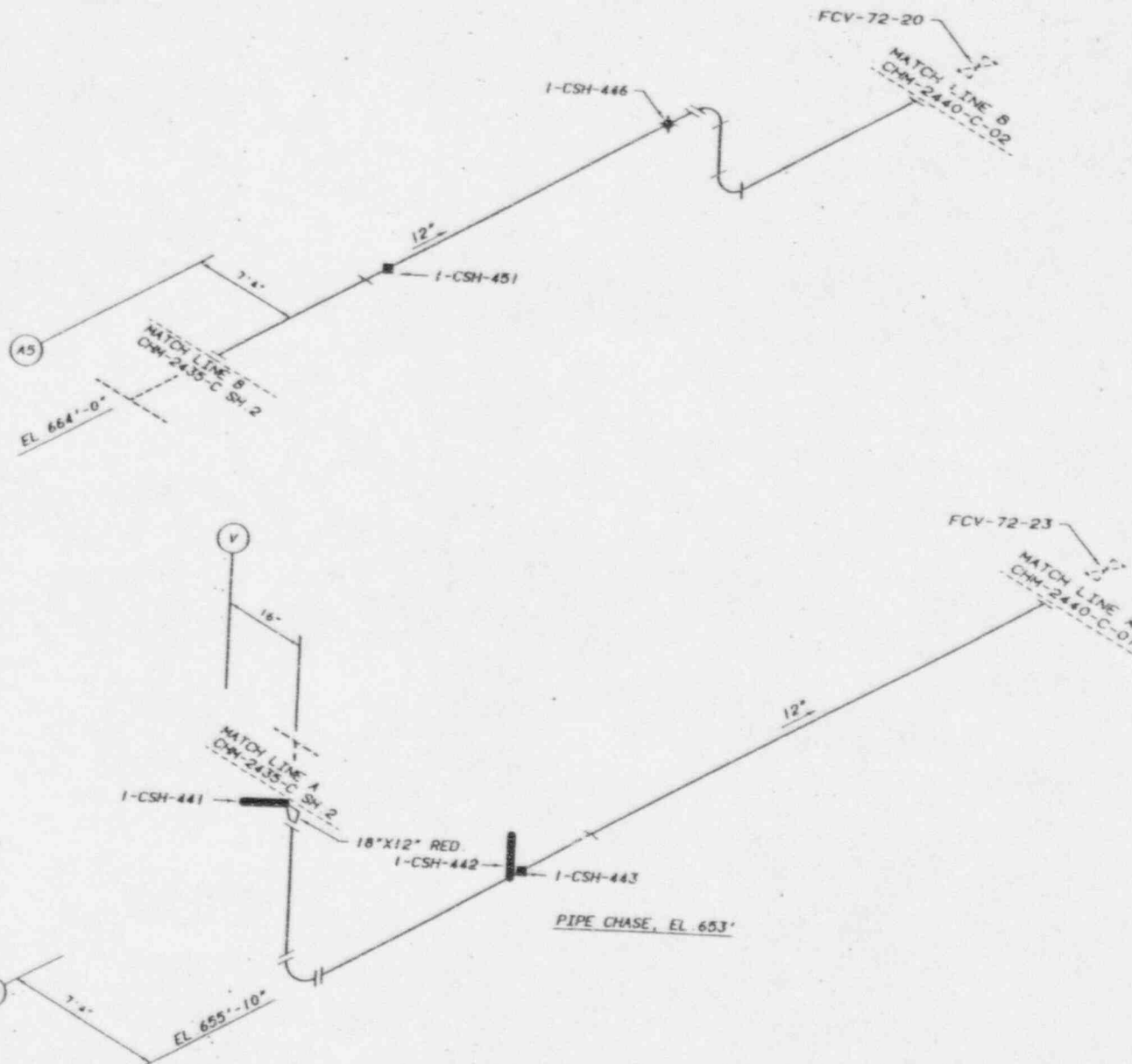


2	RPG	DOC	12-7-91	12-7-91	12-7-91
ADD MATCH LINES A & H PER FOOT 14-18. ADD SUPPORT FUNCTION. CORRECT CONFIGURATION.					
1	PHB	EDC	JED	QLB	12-7-91
DELETE 1-SIH-810. MOD TITLE					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
RESIDUAL HEAT REMOVAL SYSTEM					
SUPPORT LOCATIONS					
DRAWN	RPG	DATE	9-4-91	SCALE	NOT TO SCALE
CHECKED	PHB	APPROVED	QLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC	CHN-2435-C-06			02

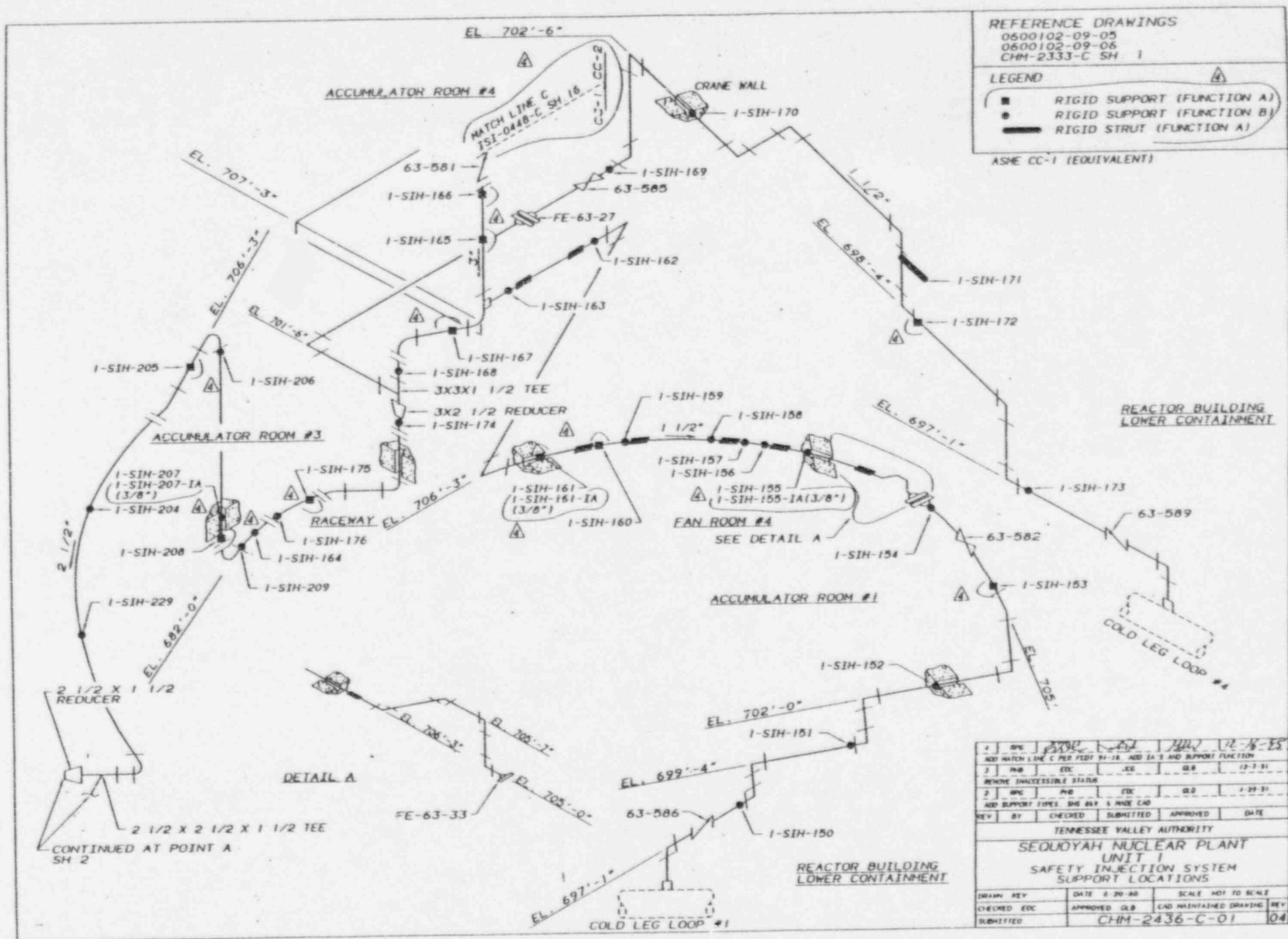
REFERENCE DRAWINGS
47K435-51
NAVCO A-7203

LEGEND

-  RIGID SUPPORT (FUNCTION A)
-  VARIABLE SUPPORT (FUNCTION C)
-  RIGID STRUT (FUNCTION A)
- ASME QC-1 (EQUIVALENT)



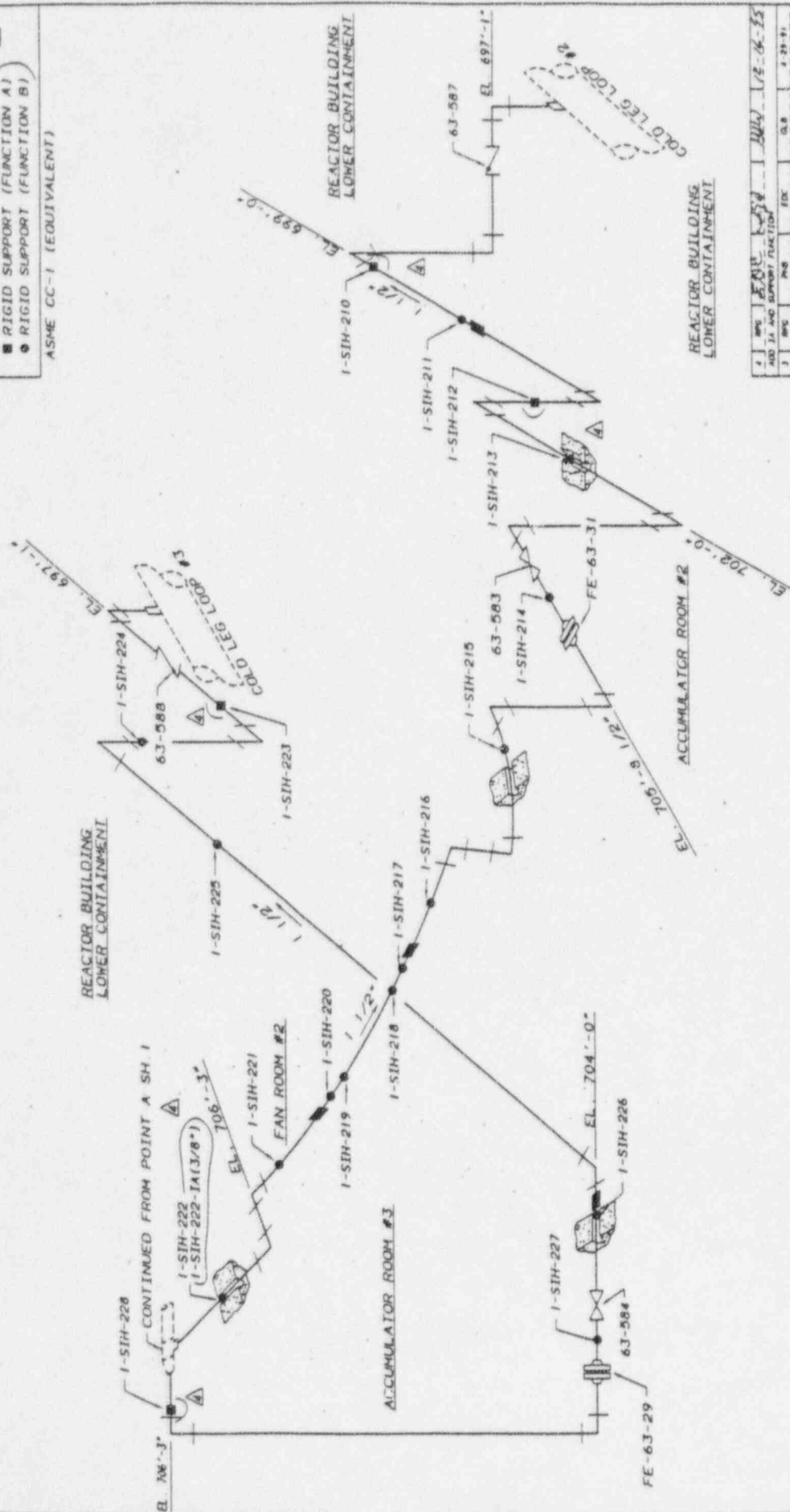
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
RESIDUAL HEAT REMOVAL SYSTEM					
SUPPORT LOCATIONS					
DRAWN BY	DATE	12-16-55	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	HLW	CAD MAINTAINED DRAWING	REV	
SUBMITTED			CHM-2435-C-07	00	



0600102-09-06
CHM-2JJJ-C SH 2

■ RIGID SUPPORT (FUNCTION A)
● RIGID SUPPORT (FUNCTION B)

ASME CC-1 (EQUIVALENT)

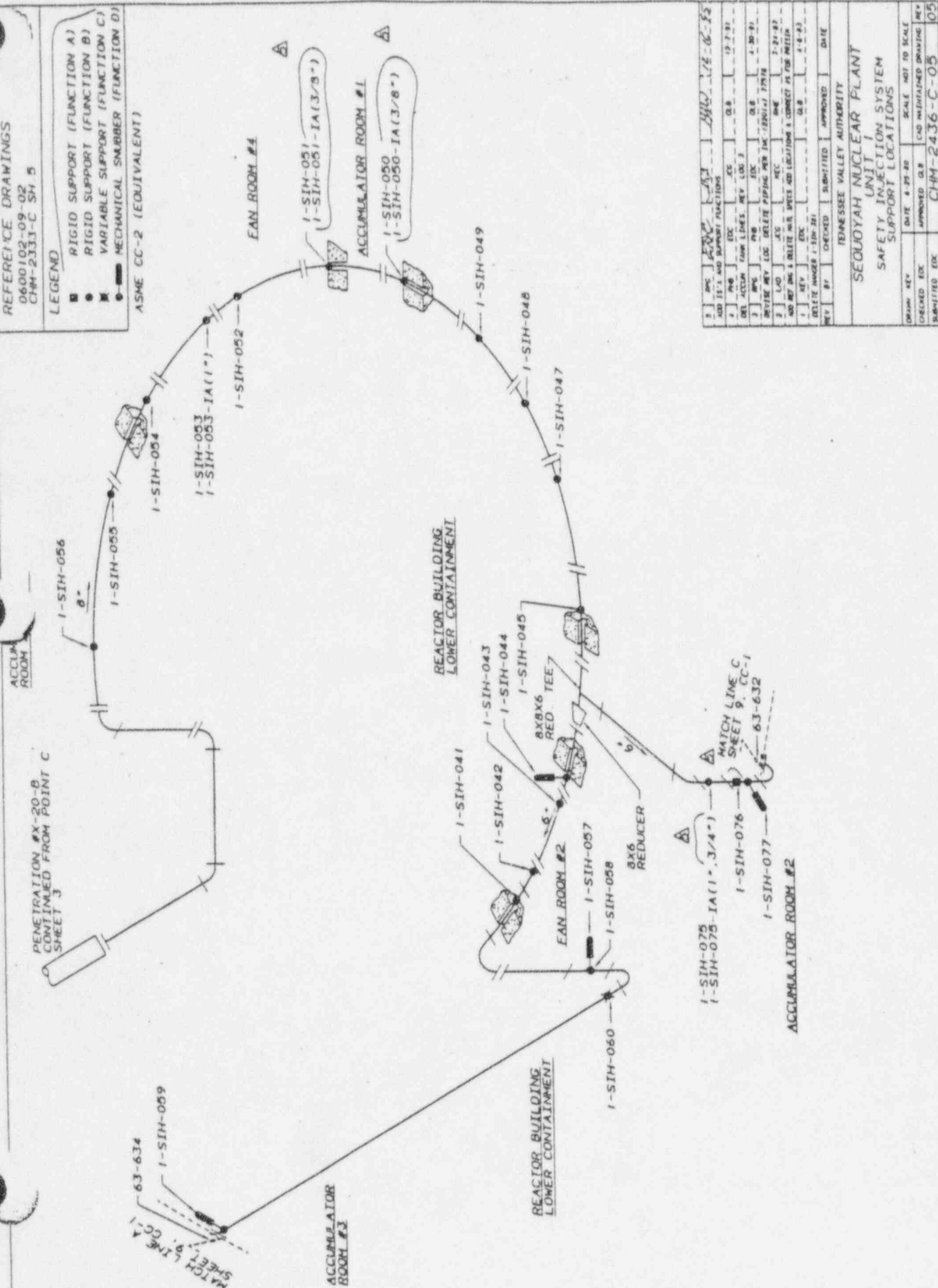
[illegible]

REFERENCE DRAWINGS

0600102-09-02
CHM-2333-C SH 5

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)
- ASME CC-2 (EQUIVALENT)



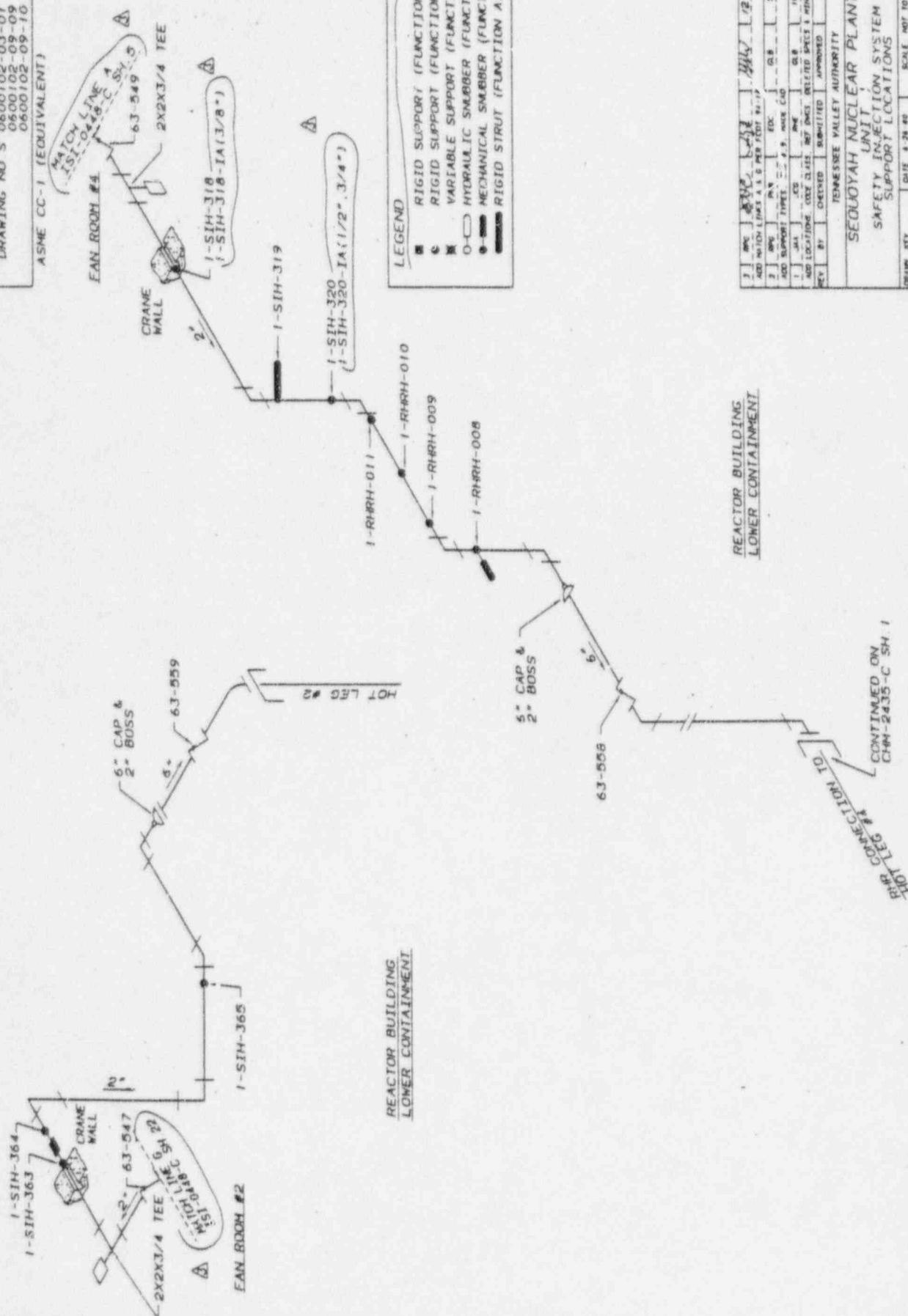
1	REV	1	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
2	REV	2	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
3	REV	3	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
4	REV	4	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
5	REV	5	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
6	REV	6	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
7	REV	7	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
8	REV	8	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
9	REV	9	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
10	REV	10	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
11	REV	11	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
12	REV	12	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
13	REV	13	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
14	REV	14	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
15	REV	15	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
16	REV	16	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
17	REV	17	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
18	REV	18	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
19	REV	19	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
20	REV	20	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
21	REV	21	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
22	REV	22	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
23	REV	23	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
24	REV	24	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
25	REV	25	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
26	REV	26	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
27	REV	27	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
28	REV	28	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
29	REV	29	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
30	REV	30	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
31	REV	31	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
32	REV	32	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
33	REV	33	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
34	REV	34	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
35	REV	35	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
36	REV	36	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
37	REV	37	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
38	REV	38	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
39	REV	39	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
40	REV	40	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
41	REV	41	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
42	REV	42	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
43	REV	43	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
44	REV	44	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
45	REV	45	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
46	REV	46	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
47	REV	47	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
48	REV	48	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
49	REV	49	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
50	REV	50	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
51	REV	51	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
52	REV	52	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
53	REV	53	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
54	REV	54	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
55	REV	55	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
56	REV	56	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
57	REV	57	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
58	REV	58	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
59	REV	59	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
60	REV	60	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
61	REV	61	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
62	REV	62	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
63	REV	63	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
64	REV	64	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
65	REV	65	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
66	REV	66	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
67	REV	67	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
68	REV	68	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
69	REV	69	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
70	REV	70	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
71	REV	71	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
72	REV	72	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
73	REV	73	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
74	REV	74	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
75	REV	75	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
76	REV	76	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
77	REV	77	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
78	REV	78	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
79	REV	79	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
80	REV	80	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
81	REV	81	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
82	REV	82	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
83	REV	83	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
84	REV	84	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
85	REV	85	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
86	REV	86	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
87	REV	87	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
88	REV	88	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
89	REV	89	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
90	REV	90	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
91	REV	91	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
92	REV	92	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
93	REV	93	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
94	REV	94	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
95	REV	95	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
96	REV	96	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
97	REV	97	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
98	REV	98	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
99	REV	99	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81
100	REV	100	ADD 15' AND SUPPORT FUNCTIONS	Q.B.	10-7-81

SEQUOYAH NUCLEAR PLANT
UNIT 1
SAFETY INJECTION SYSTEM
SUPPORT LOCATIONS

DATE	4-25-80	SCALE	NOT TO SCALE
APPROVED	Q.B.	CAD	MAINTAINED DRAWING
SUBMITTED	EDC	CHM-2436-C-05	05

47K435-83
CFM-2333-C SH 7
CONTRACT NO TV-42499A
DRAWING NO S 0600102-03-01
0600102-09-09
0600102-09-10

ASME CC-1 (EQUIVALENT)

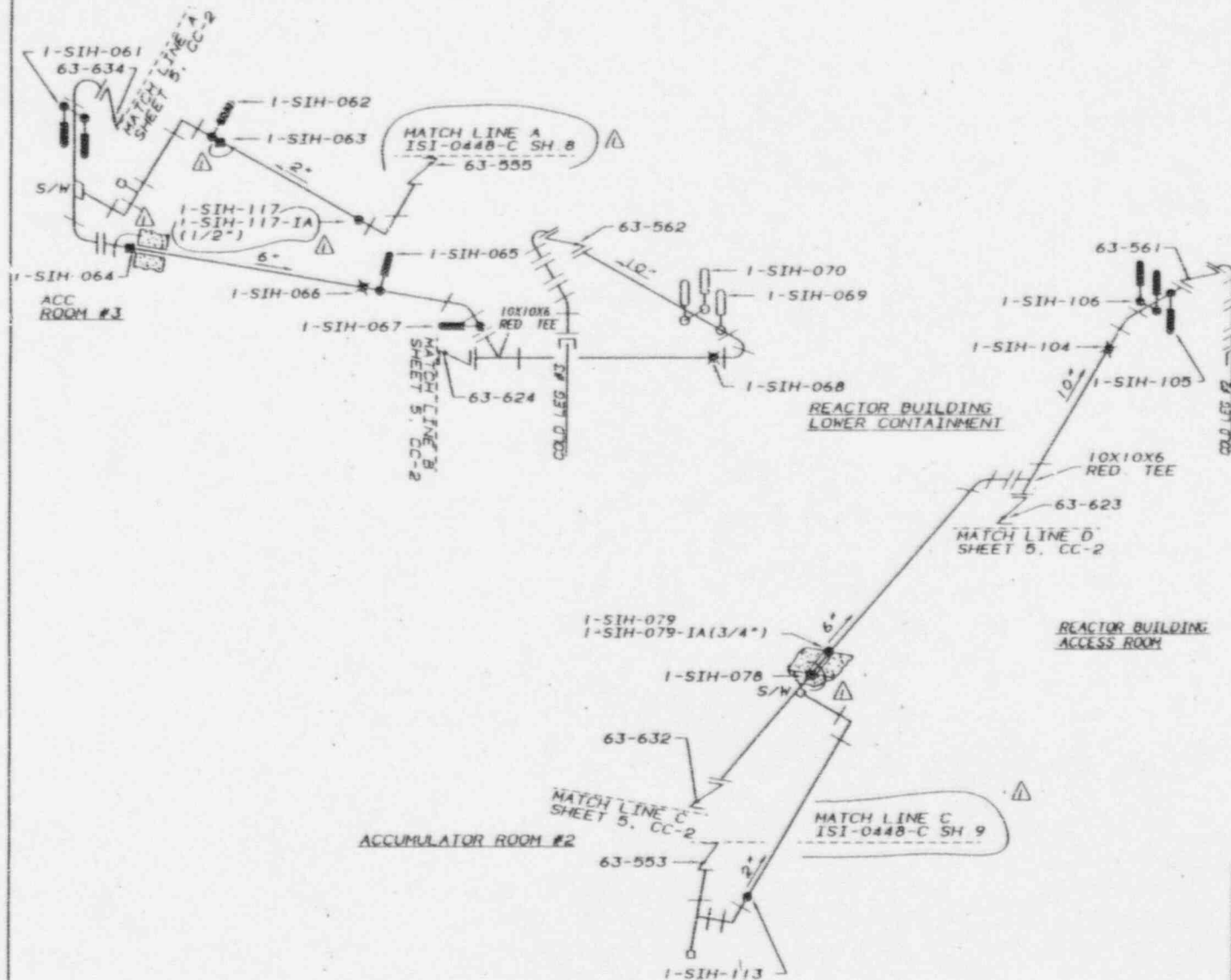
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REFERENCE DRAWINGS
0600102-09-02
CHM-2333-C SH 5

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊗ VARIABLE SUPPORT (FUNCTION C)
- HYDRAULIC SNUBBER (FUNCTION D)
- ⊖ MECHANICAL SNUBBER (FUNCTION D)

ASME CC-1 (EQUIVALENT)

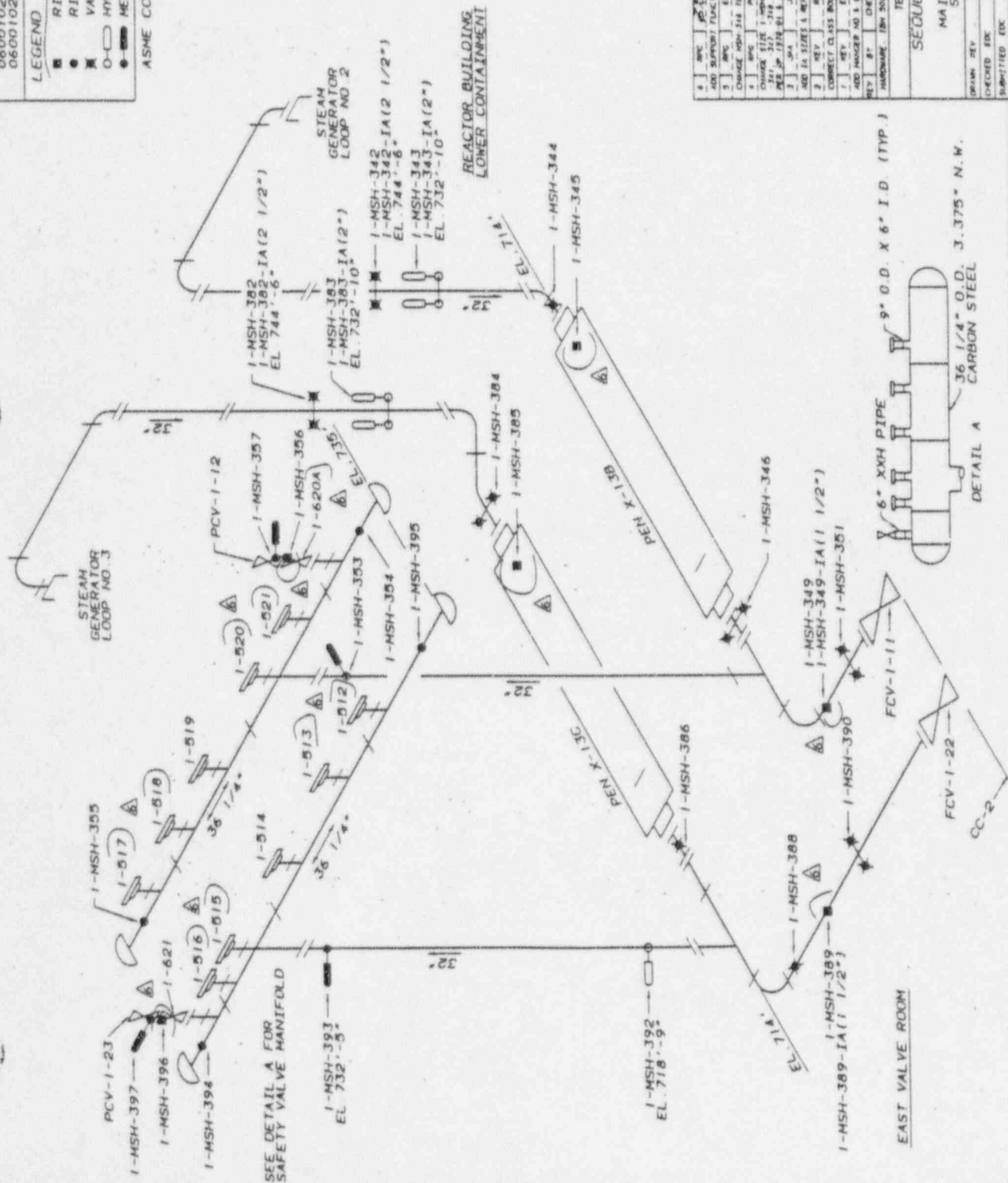


1	WPC	12-16-75	12-16-75	12-16-75	12-16-75
ADD MATCH LINES A & C PER FOOT 14-18 ADD 14-18 SUPPORT FUNCTIONS					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEDOYAH NUCLEAR PLANT					
UNIT 1					
SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS					
DRAWN	WPC	DATE	9-1-81	SCALE	NOT TO SCALE
CHECKED	PHB	APPROVED	CLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC	CHM-2436-C-09			01

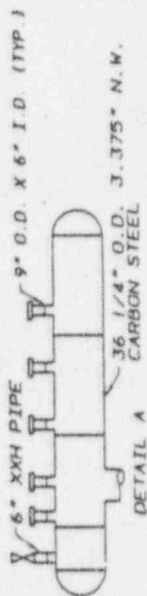
REFERENCE DRAWINGS
 CHM-2340-C SH 2
 0600102-06-02
 0600102-06-03

LEGEND

- RIGID SUPPORT (FUNCTION A)
 - RIGID SUPPORT (FUNCTION B)
 - VARIABLE SUPPORT (FUNCTION C)
 - HYDRAULIC SUMMER (FUNCTION D)
 - MECHANICAL SUMMER (FUNCTION D)
- ASME CC-2 (EQUIVALENT)



4	APC	ADD SUPPORT FUNCTION AND CORRECT VALUE AND S	CL 8	CL 8	8-21-83
5	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
6	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
7	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
8	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
9	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
10	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
11	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
12	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
13	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
14	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
15	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
16	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
17	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
18	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
19	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83
20	APC	CHANGE FROM 314 TO 314.1	CL 8	CL 8	8-21-83



SEQUOYAH NUCLEAR PLANT
 UNIT 1
 MAINSTEAM LOOPS 2 & 3
 SUPPORT LOCATIONS

DESIGN REV	DATE	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED CLB	CAD MANIPULATED DRAWING	REV
SUBMITTED EDC	CHM-2340-C-02		06

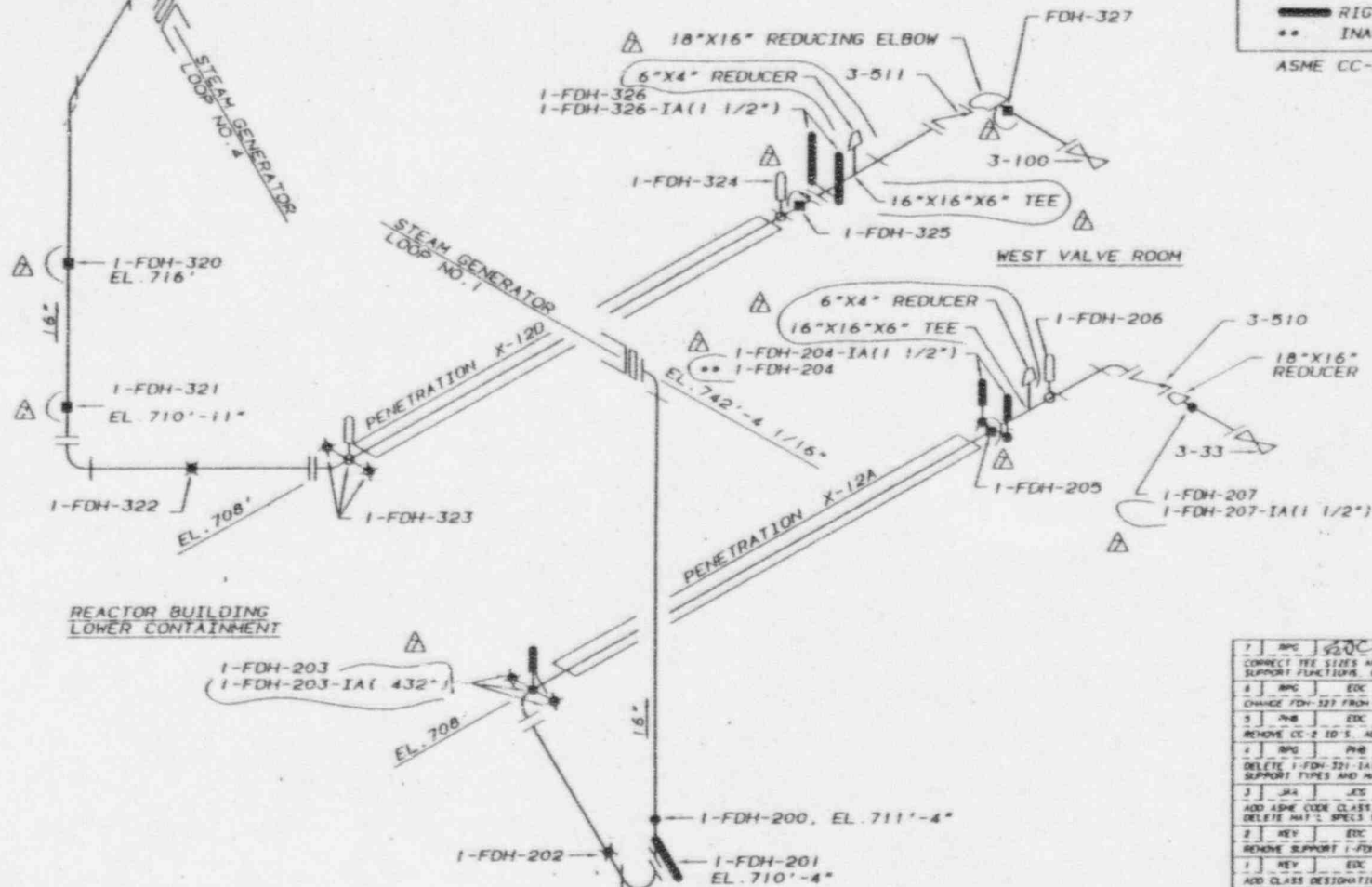
REFERENCE DRAWINGS

CHM-2339-C SH. 1
47K401-54
47K401-57
47W401-1

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊠ VARIABLE SUPPORT (FUNCTION C)
- HYDRAULIC SNUBBER (FUNCTION D)
- ⊙ MECHANICAL SNUBBER (FUNCTION D)
- ▬ RIGID STRUT (FUNCTION A)
- ** INACCESSIBLE IA

ASME CC-2 (EQUIVALENT)



1	WPC	EDC	JEC	GLB	7-15-93
CONNECT TEE SIZES AND ADD REDUCERS PER FLD1 94-91. ADD IA AND SUPPORT FUNCTIONS. CHANGE INACCESSIBLE FROM 201 TO 204.					
2	WPC	EDC	JEC	GLB	7-15-93
CHANGE FDH-327 FROM RIGID STRUT TO RIGID SUPPORT PER FLD1 92-52.					
3	WPC	EDC	JEC	GLB	12-7-91
REMOVE CC-2 TO 5. ADD INACCESS NOTE.					
4	WPC	WPC	EDC	GLB	8-31-91
DELETE 1-FDH-321-IA (1 1/2"). ADD FDH-207-IA (1 1/2"). ADD SUPPORT TYPES AND MAKE CAD.					
5	JKA	JEC	REC	WPC	11-29-88
ADD ASME CODE CLASS, IA SIZES, ROOM NAMES & REF DIMS. DELETE NAT'L SPECS & SOME REF DIMS.					
6	KEY	EDC		GLB	10-29-81
REMOVE SUPPORT 1-FDH-323.					
7	KEY	EDC		GLB	4-8-83
ADD CLASS DESIGNATION.					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
FEEDWATER SYSTEM					
LOOPS 1 & 4					
DRAWN KEY	DATE	8-10-80	SCALE	NOT TO SCALE	
CHECKED EDC	APPROVED GLB	CAD MAINTAINED DRAWING	REV		
SUBMITTED	CHM-2439-C-01				107

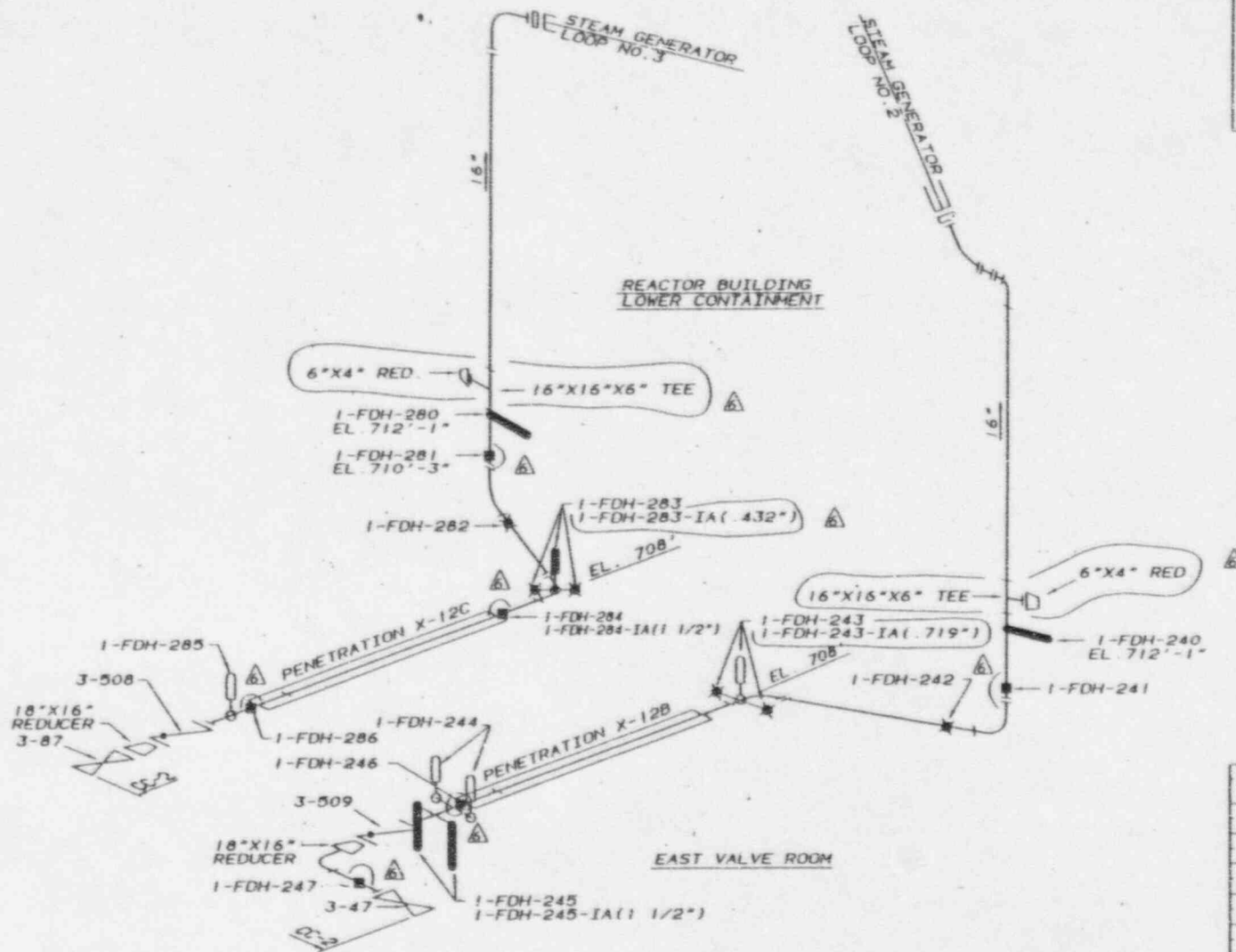
REFERENCE DRAWINGS

CHM-2339-C SH 2
47K401-52
47K401-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- HYDRAULIC SNUBBER (FUNCTION D)
- MECHANICAL SNUBBER (FUNCTION D)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



1	REV	EDC	10-25-84	10-25-84
CORRECT TEE & REDUCER PER FEED 94-21 & REDRAW. ADD T4'S AND SUPPORT FUNCTION				
2	REV	EDC	10-25-84	10-25-84
DELETE 1-FDH-241-IA(1 3/4") ADD SUPPORT TYPES AND HIDE CAD				
3	REV	EDC	10-25-84	10-25-84
ADD LOCATIONS. REF DNG AND DELETE SPECS & MINOR CHANGES				
4	REV	EDC	10-25-84	10-25-84
ADD 1-FDH-282 AND MINOR CHANGES				
5	REV	EDC	10-25-84	10-25-84
REMOVE SUPPORT 1-FDH-282				
6	REV	EDC	10-25-84	10-25-84
ADD CLASS DESIGNATION				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
FEEDWATER SYSTEM				
LOOPS 2 & 3				
DRAWN BY	DATE	8-11-80	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED	EDC	CAD MAINTAINED DRAWING	REV
SUBMITTED EDC	CHM-2439-C-02 06			

REFERENCE DRAWINGS
47K435-51
NAVCO A-7203 R9

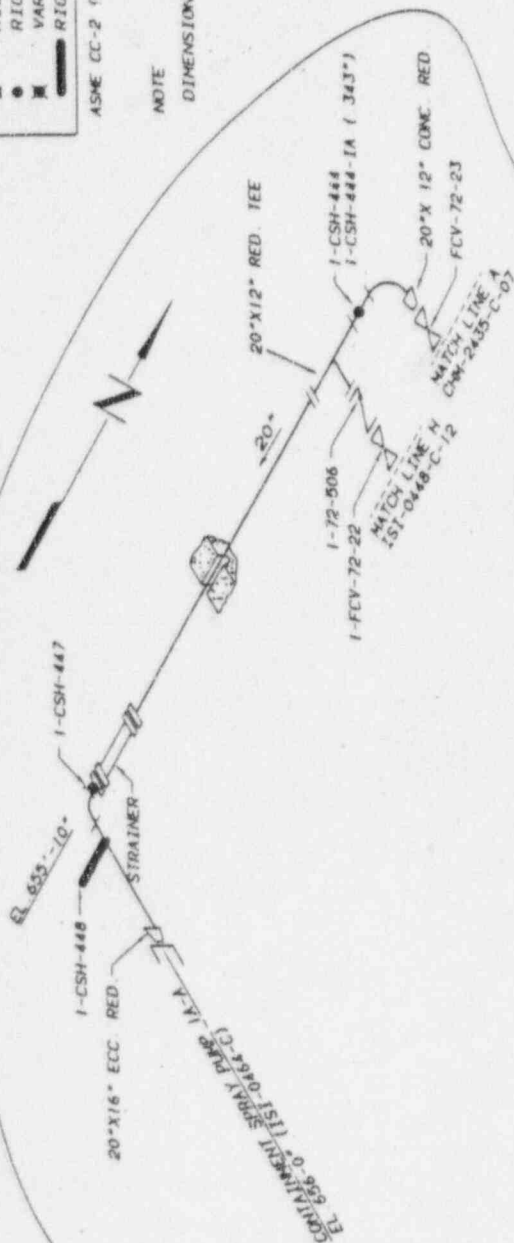
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ▣ VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



1	ENG	2002	12-16-35
2	DES	12-16-35	12-16-35
3	CHK	12-16-35	12-16-35
4	APP	12-16-35	12-16-35
5	DES	12-16-35	12-16-35
6	CHK	12-16-35	12-16-35
7	APP	12-16-35	12-16-35
8	DES	12-16-35	12-16-35
9	CHK	12-16-35	12-16-35
10	APP	12-16-35	12-16-35
11	DES	12-16-35	12-16-35
12	CHK	12-16-35	12-16-35
13	APP	12-16-35	12-16-35
14	DES	12-16-35	12-16-35
15	CHK	12-16-35	12-16-35
16	APP	12-16-35	12-16-35
17	DES	12-16-35	12-16-35
18	CHK	12-16-35	12-16-35
19	APP	12-16-35	12-16-35
20	DES	12-16-35	12-16-35
21	CHK	12-16-35	12-16-35
22	APP	12-16-35	12-16-35
23	DES	12-16-35	12-16-35
24	CHK	12-16-35	12-16-35
25	APP	12-16-35	12-16-35
26	DES	12-16-35	12-16-35
27	CHK	12-16-35	12-16-35
28	APP	12-16-35	12-16-35
29	DES	12-16-35	12-16-35
30	CHK	12-16-35	12-16-35
31	APP	12-16-35	12-16-35
32	DES	12-16-35	12-16-35
33	CHK	12-16-35	12-16-35
34	APP	12-16-35	12-16-35
35	DES	12-16-35	12-16-35
36	CHK	12-16-35	12-16-35
37	APP	12-16-35	12-16-35
38	DES	12-16-35	12-16-35
39	CHK	12-16-35	12-16-35
40	APP	12-16-35	12-16-35
41	DES	12-16-35	12-16-35
42	CHK	12-16-35	12-16-35
43	APP	12-16-35	12-16-35
44	DES	12-16-35	12-16-35
45	CHK	12-16-35	12-16-35
46	APP	12-16-35	12-16-35
47	DES	12-16-35	12-16-35
48	CHK	12-16-35	12-16-35
49	APP	12-16-35	12-16-35
50	DES	12-16-35	12-16-35
51	CHK	12-16-35	12-16-35
52	APP	12-16-35	12-16-35
53	DES	12-16-35	12-16-35
54	CHK	12-16-35	12-16-35
55	APP	12-16-35	12-16-35
56	DES	12-16-35	12-16-35
57	CHK	12-16-35	12-16-35
58	APP	12-16-35	12-16-35
59	DES	12-16-35	12-16-35
60	CHK	12-16-35	12-16-35
61	APP	12-16-35	12-16-35
62	DES	12-16-35	12-16-35
63	CHK	12-16-35	12-16-35
64	APP	12-16-35	12-16-35
65	DES	12-16-35	12-16-35
66	CHK	12-16-35	12-16-35
67	APP	12-16-35	12-16-35
68	DES	12-16-35	12-16-35
69	CHK	12-16-35	12-16-35
70	APP	12-16-35	12-16-35
71	DES	12-16-35	12-16-35
72	CHK	12-16-35	12-16-35
73	APP	12-16-35	12-16-35
74	DES	12-16-35	12-16-35
75	CHK	12-16-35	12-16-35
76	APP	12-16-35	12-16-35
77	DES	12-16-35	12-16-35
78	CHK	12-16-35	12-16-35
79	APP	12-16-35	12-16-35
80	DES	12-16-35	12-16-35
81	CHK	12-16-35	12-16-35
82	APP	12-16-35	12-16-35
83	DES	12-16-35	12-16-35
84	CHK	12-16-35	12-16-35
85	APP	12-16-35	12-16-35
86	DES	12-16-35	12-16-35
87	CHK	12-16-35	12-16-35
88	APP	12-16-35	12-16-35
89	DES	12-16-35	12-16-35
90	CHK	12-16-35	12-16-35
91	APP	12-16-35	12-16-35
92	DES	12-16-35	12-16-35
93	CHK	12-16-35	12-16-35
94	APP	12-16-35	12-16-35
95	DES	12-16-35	12-16-35
96	CHK	12-16-35	12-16-35
97	APP	12-16-35	12-16-35
98	DES	12-16-35	12-16-35
99	CHK	12-16-35	12-16-35
100	APP	12-16-35	12-16-35

SEOUYAH NUCLEAR PLANT

UNIT 1 SPRAY
CONTAINMENT SPRAY
SUPPORT LOCATIONS

DATE	9-4-83	SCALE	NOT TO SCALE
CHECKED	ENC	APPROVED	CLB
SUBMITTED	ENC	CHM-2440-C-01	03

REFERENCE DRAWINGS

47K4J5-51
NAVCO A-7203 R9

NAVCO A-7203 R9

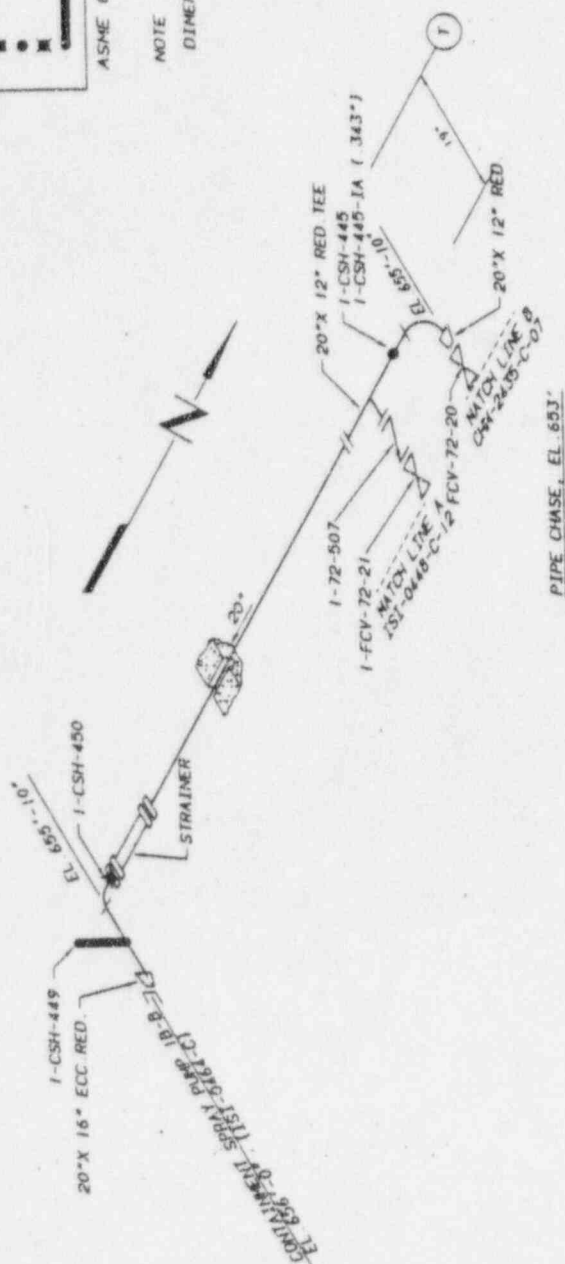
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



PIPE CHASE, EL. 65J'

DATE	CHECKED	SUBMITTED	APPROVED	DATE
TEMEESSE VALLEY AUTHORITY SEOUYAH NUCLEAR PLANT UNIT 1 CONTAINMENT SPRAY SUPPORT LOCATIONS				

CHASIN	WPG	DATE	12-16-88	SCALE	NOT TO SCALE
CHECKED	WPG	APPROVED	WPG	CAD	MAINTAINED
CHN-240-C-0					

REFERENCE DRAWINGS

47K437-50

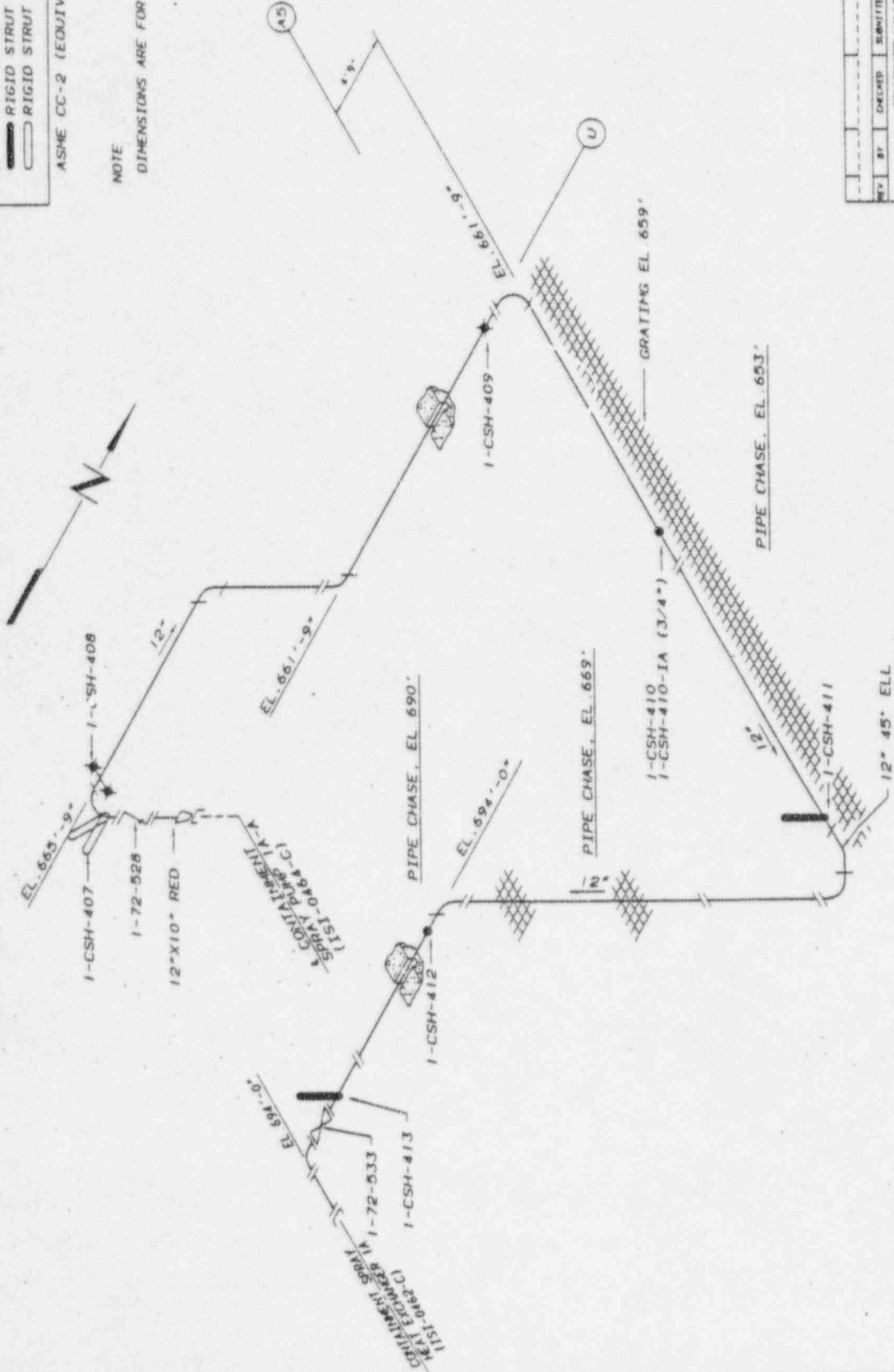
LEGEND

- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)
- ▬ RIGID STRUT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYIAH NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY					
SUPPORT LOCATIONS					
DESIGNED BY	DATE	12-8-75	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED BY	1/10/76	LDG	MAINTAINED DRAWING	REV
SUBMITTED BY	CHM-2440-C-03				00

REFERENCE DRAWINGS

47K435-50
NAVCO A-7205 R7

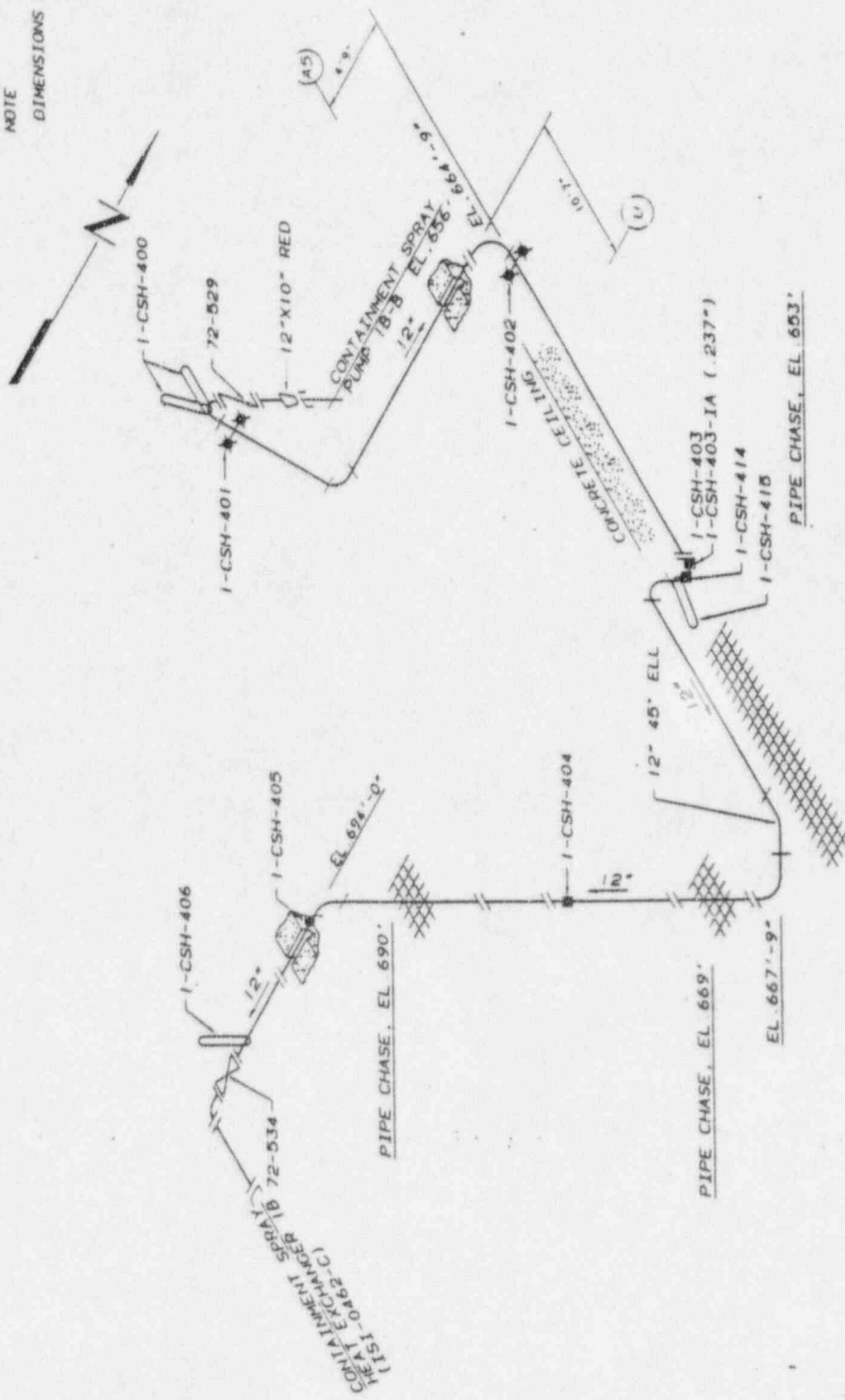
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ▤ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



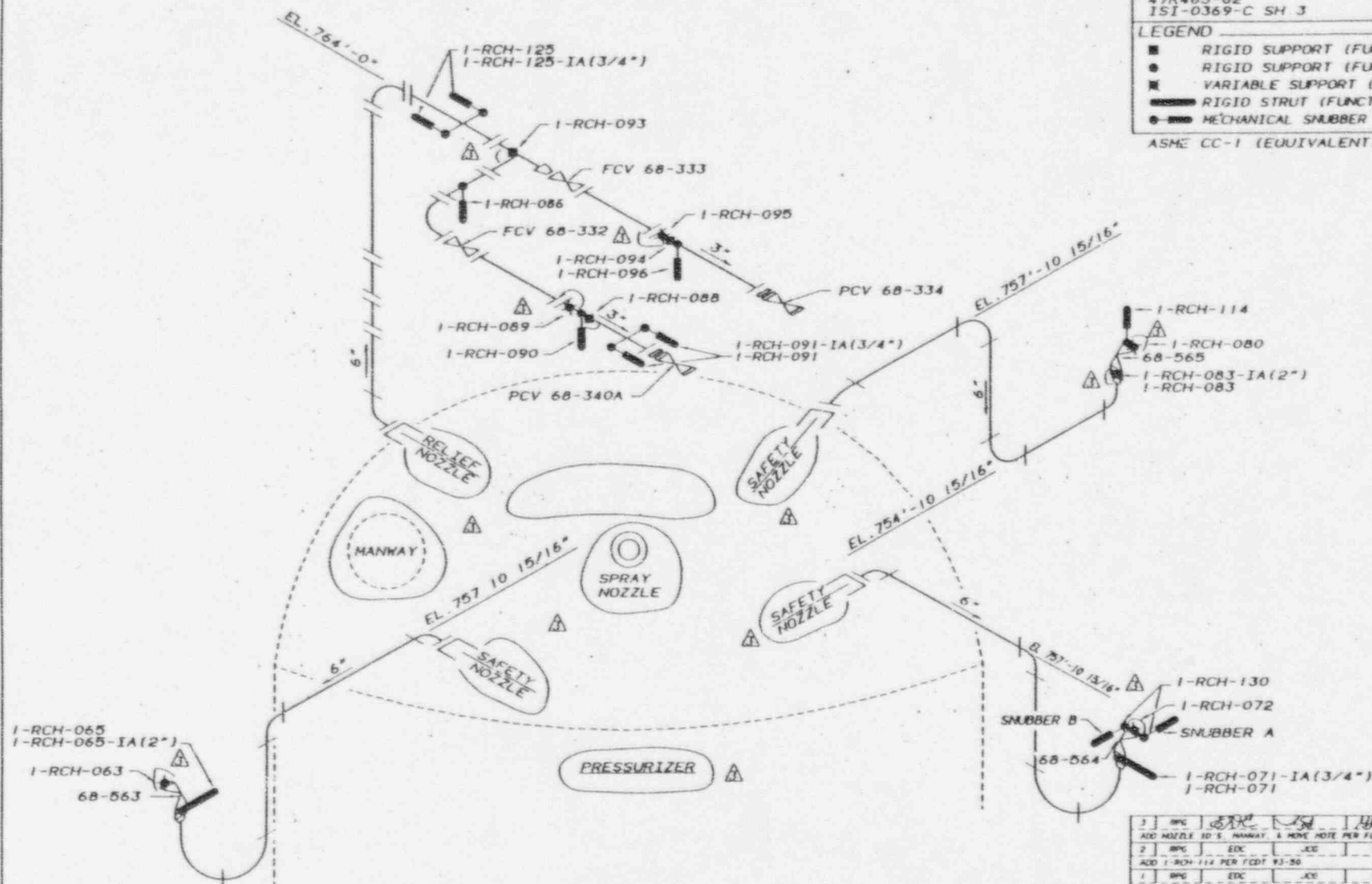
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
SENOYAH NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY					
SUPPORT LOCATIONS					
DATE	12-8-75	SCALE	NOT TO SCALE		
DESIGNED	WJC	APPROVED	WJC		
CHECKED	WJC	DATE	12-8-75		
SUBMITTED	WJC	DATE	12-8-75		
				CHM-2440-C-05	00

REFERENCE DRAWINGS

47K465-61
47K465-62
ISI-0369-C SH 3

LEGEND

- RIGID SUPPORT (FUNCTION A)
 - RIGID SUPPORT (FUNCTION B)
 - ▣ VARIABLE SUPPORT (FUNCTION C)
 - ▬ RIGID STRUT (FUNCTION A)
 - MECHANICAL SNUBBER (FUNCTION D)
- ASME CC-1 (EQUIVALENT)



3	WPC	EDC	WPC	WPC	12-7-91
ADD NOZZLE TO S. MANWAY, & MOVE NOTE PER FCDT 94-19. ADD FUNCTIONS					
2	WPC	EDC	WPC	WPC	9/24/93
ADD 1-RCH-114 PER FCDT 93-50					
1	WPC	EDC	WPC	WPC	12-7-91
CHANGED 1-RCH-130A, -130B TO 1-RCH-130. ADDED 1-RCH-096					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
REACTOR COOLANT SYSTEM					
SUPPORT LOCATIONS					
DRAWN WPC	DATE 8-30-91	SCALE NOT TO SCALE			
CHECKED PHB	APPROVED WPC	CAD MAINTAINED DRAWING REV			
SUBMITTED EDC	ISI-0370-C-03				03

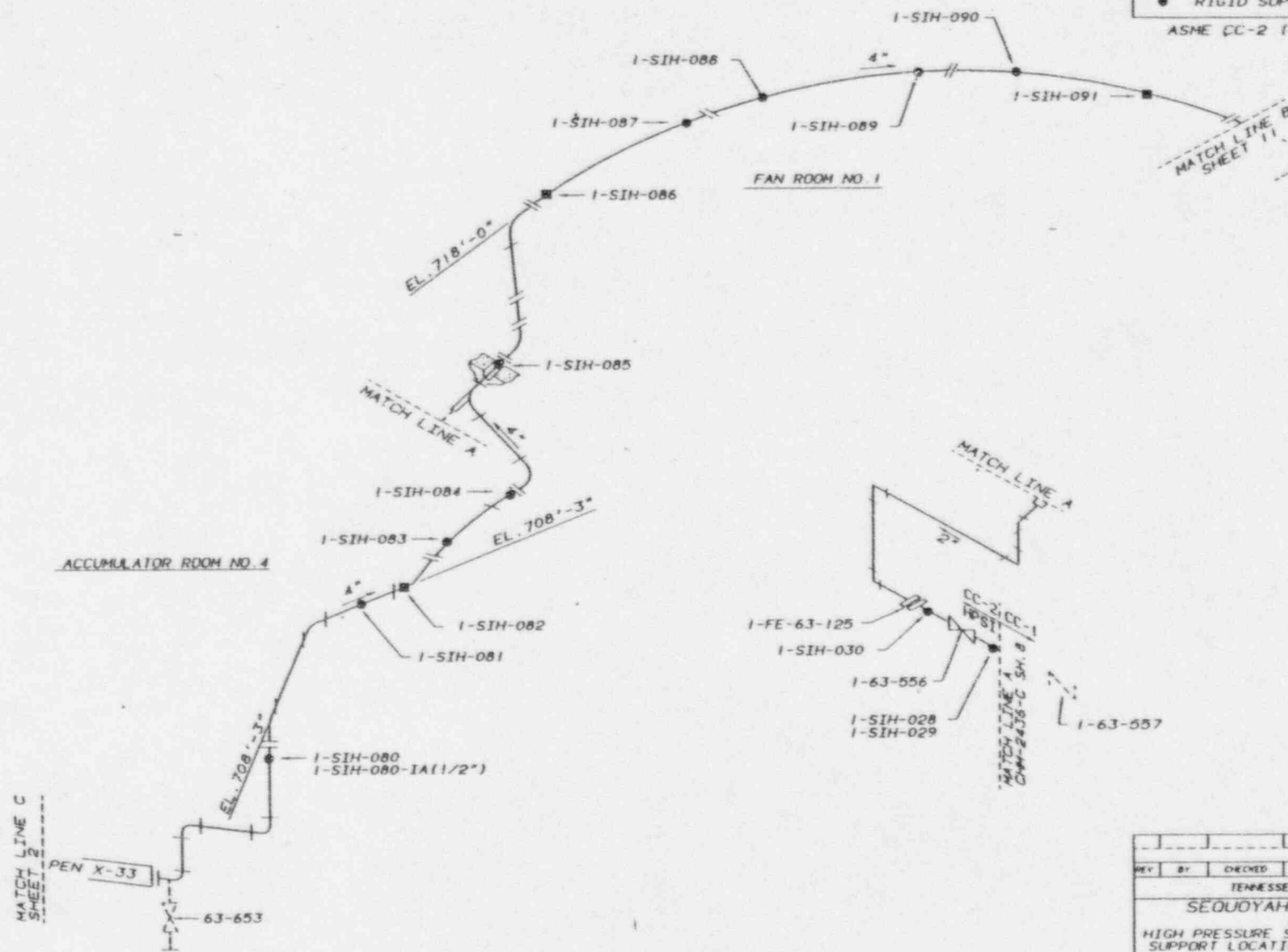
REFERENCE DRAWINGS

CONTRACT NO. TV-42499A
DRAWING NO. 0600102-09-03

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN	BPG	DATE	12/16/85	SCALE	NOT TO SCALE
CHECKED	SPW	APPROVED	HLW	CAD	MAINTAINED DRAWING
SUBMITTED	HLW	DATE	12/16/85	SCALE	NOT TO SCALE
ISI-0448-C-01					100

REFERENCE DRAWINGS
47N435-54

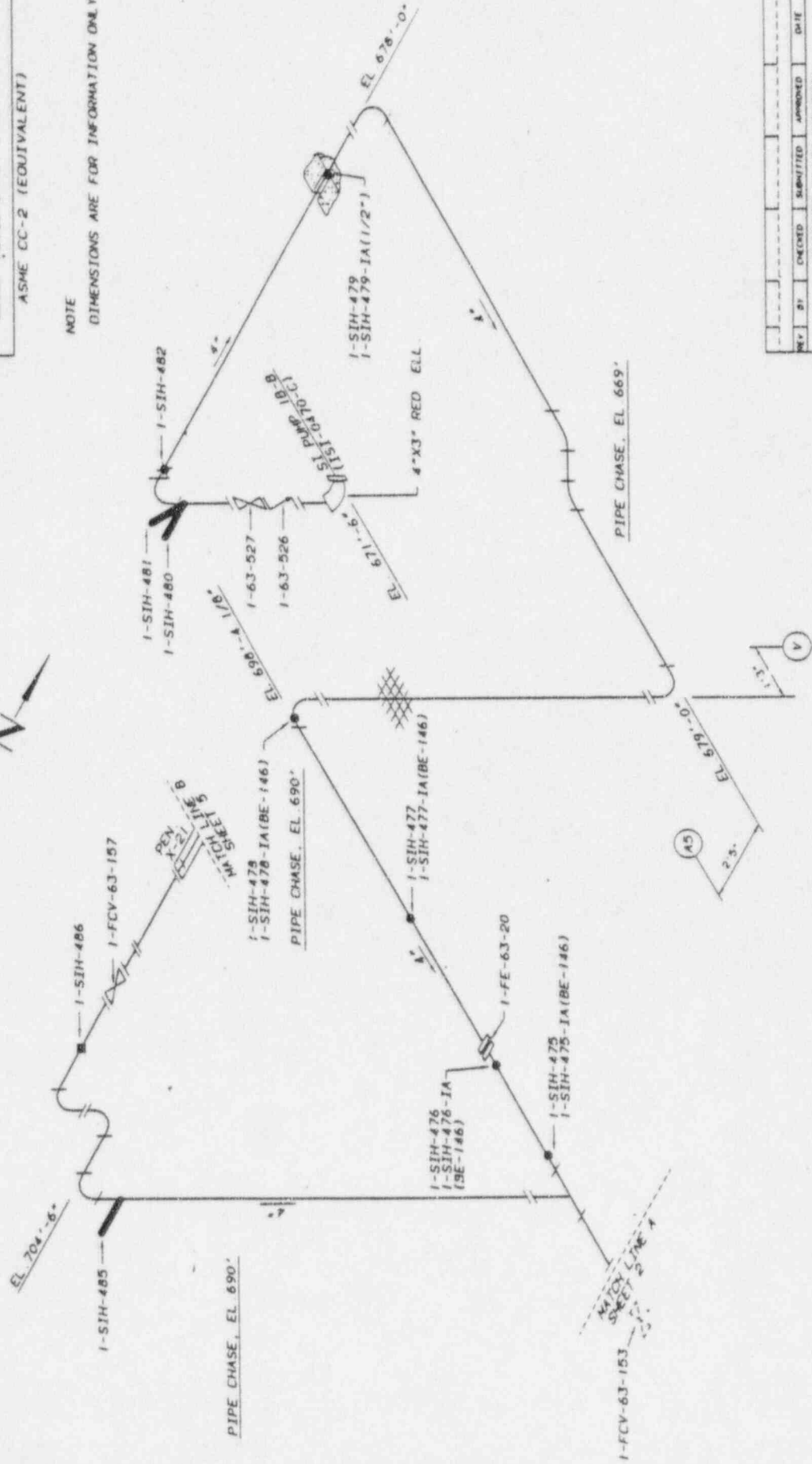
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

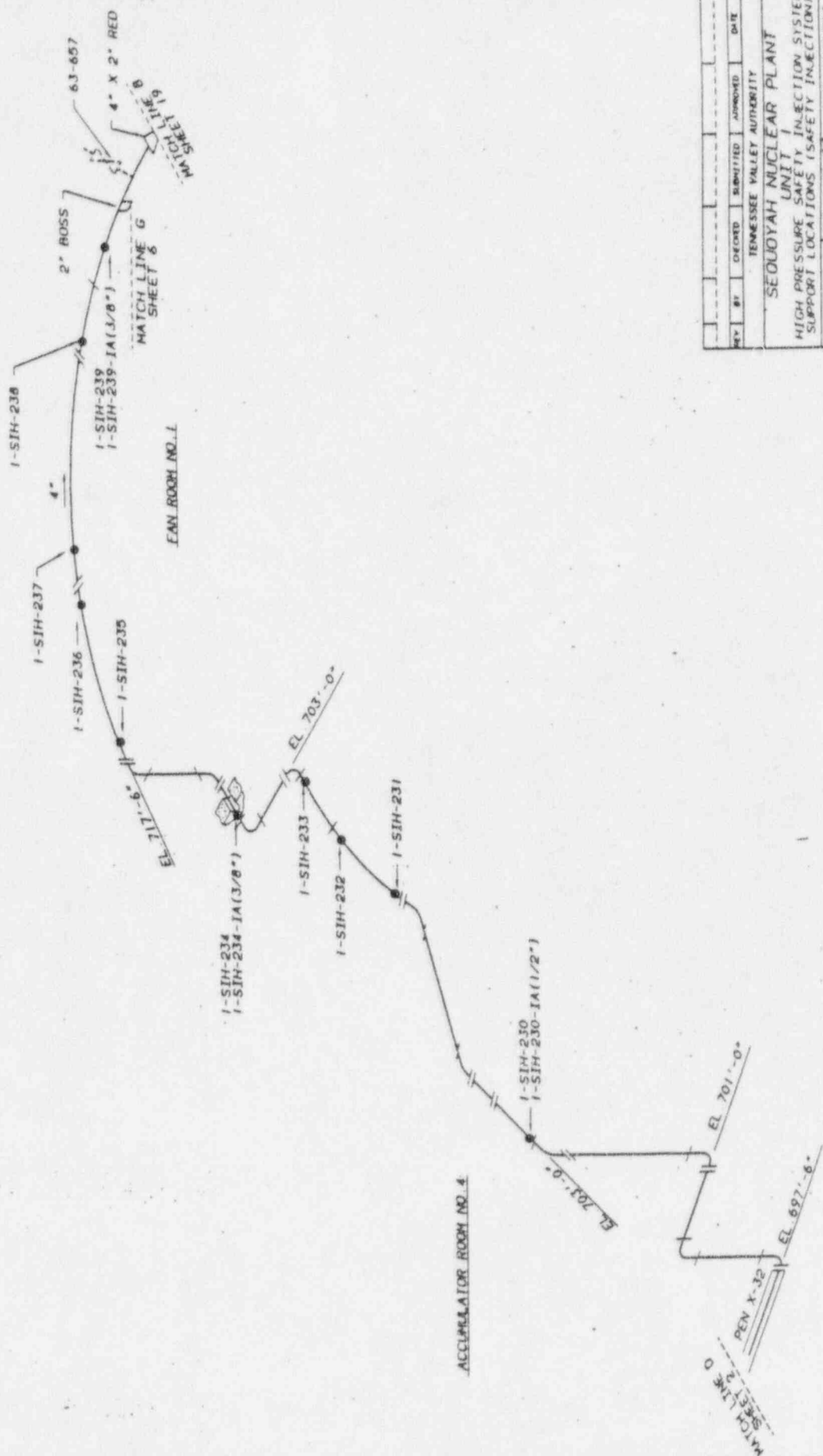


REV	BY	CHECKED	SUBMITTED	APPROVED	DATE		
TENNESSEE VALLEY AUTHORITY							
SEQUOYAH NUCLEAR PLANT							
UNIT 1							
HIGH PRESSURE SAFETY INJECTION SYSTEM							
SUPPORT LOCATIONS (SAFETY INJECTION)							
DESIGN NO.	DATE / E	SCALE	NOT TO SCALE				
CHECKED 6/2/82	APPROVED 6/2/82	1/2"	1/2"				
SUBMITTED 6/2/82	1/2"	1/2"	1/2"				
TSI-0448-C-03							
100							

REFERENCE DRAWINGS
CONTRACT NO. TV-42499A
DRAWING NO. 0600102-09-07

LEGEND

- RIGID SUPPORT (FUNCTION B)
- ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					

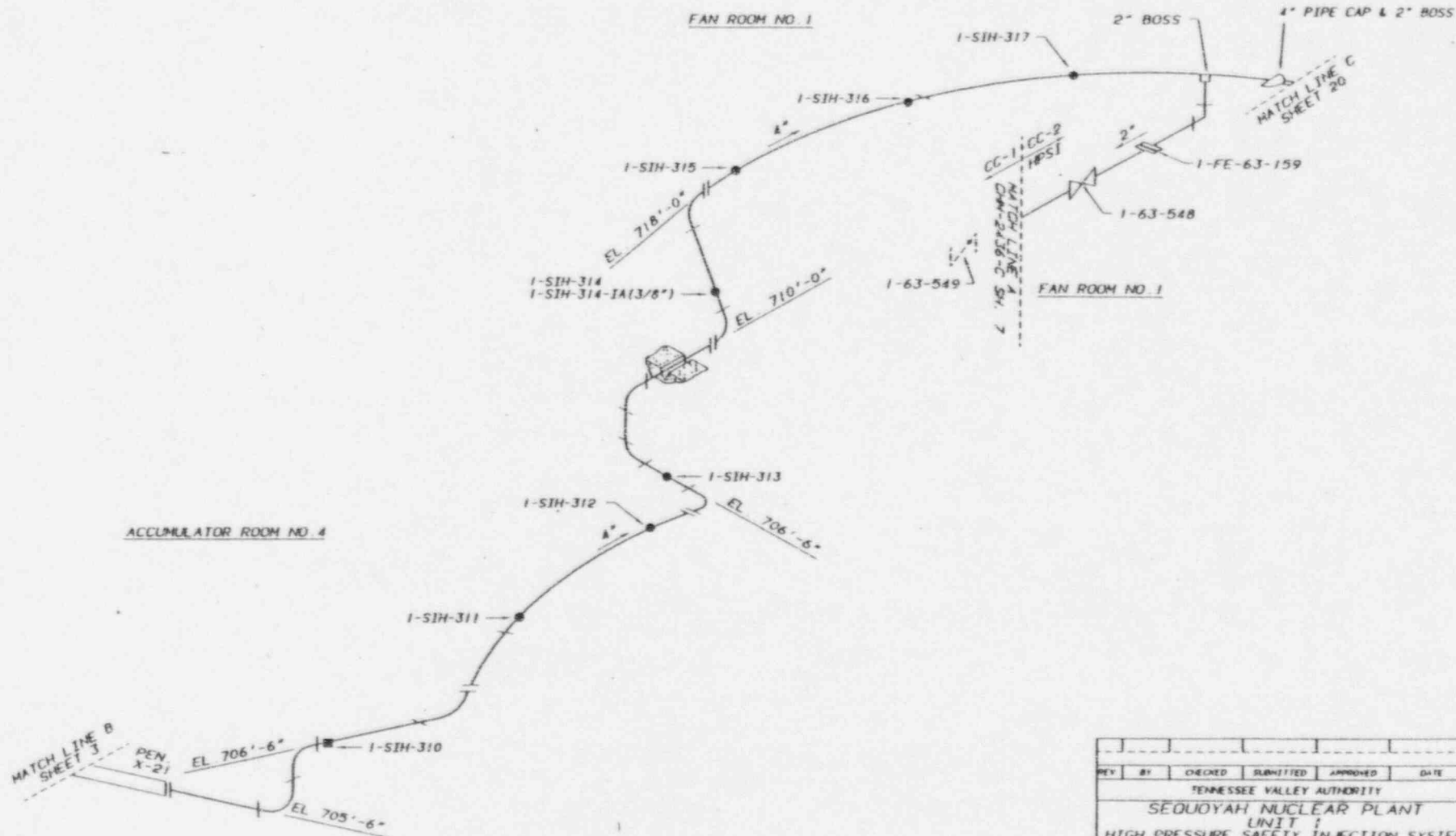
TENNESSEE VALLEY AUTHORITY	
SEQUOYAH NUCLEAR PLANT	
UNIT 1	
HIGH PRESSURE SAFETY INJECTION SYSTEM	
SUPPORT LOCATIONS (SAFETY INJECTION)	
DRAWN BY	DATE
CHKD BY	DATE
SUBMITTED BY	DATE
REVISIONS	
1	1
151-0448-C-04	
00	

REFERENCE DRAWINGS:
 CONTRACT NO. TV-42499A
 DRAWING NO. 0600102-09-09

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

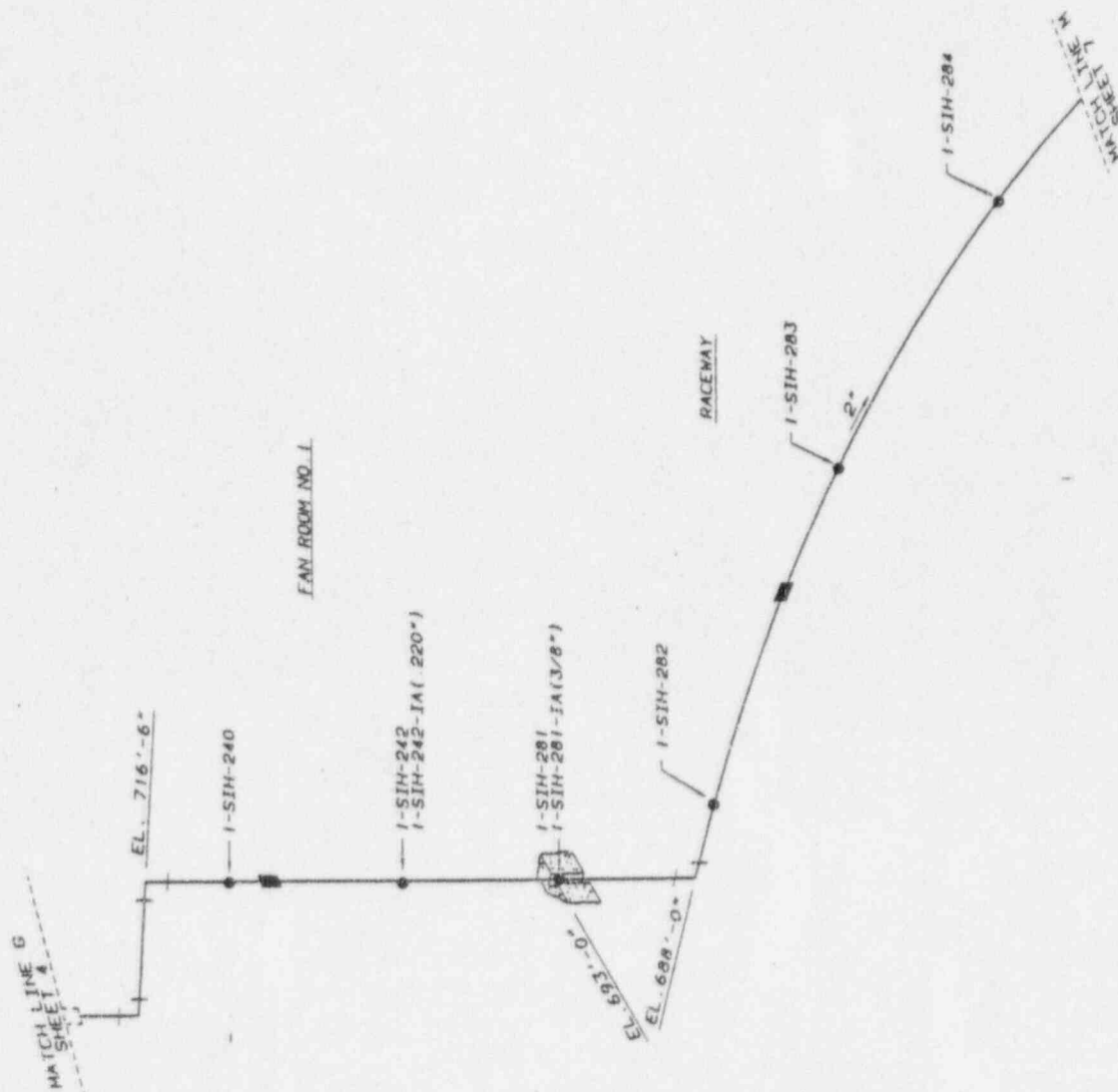


REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-75	SCALE	NOT TO SCALE	
CHECKED	APPROVED	ISI	CAD	MAINTAINED DRAWING	
SUBMITTED	21	ISI-0448-C-05	100		

CONTRACT NO. TV-42499A
DRAWING NOS. 0600102-09-07
0600102-09-08

RIGID SUPPORT (FUNCTION B)

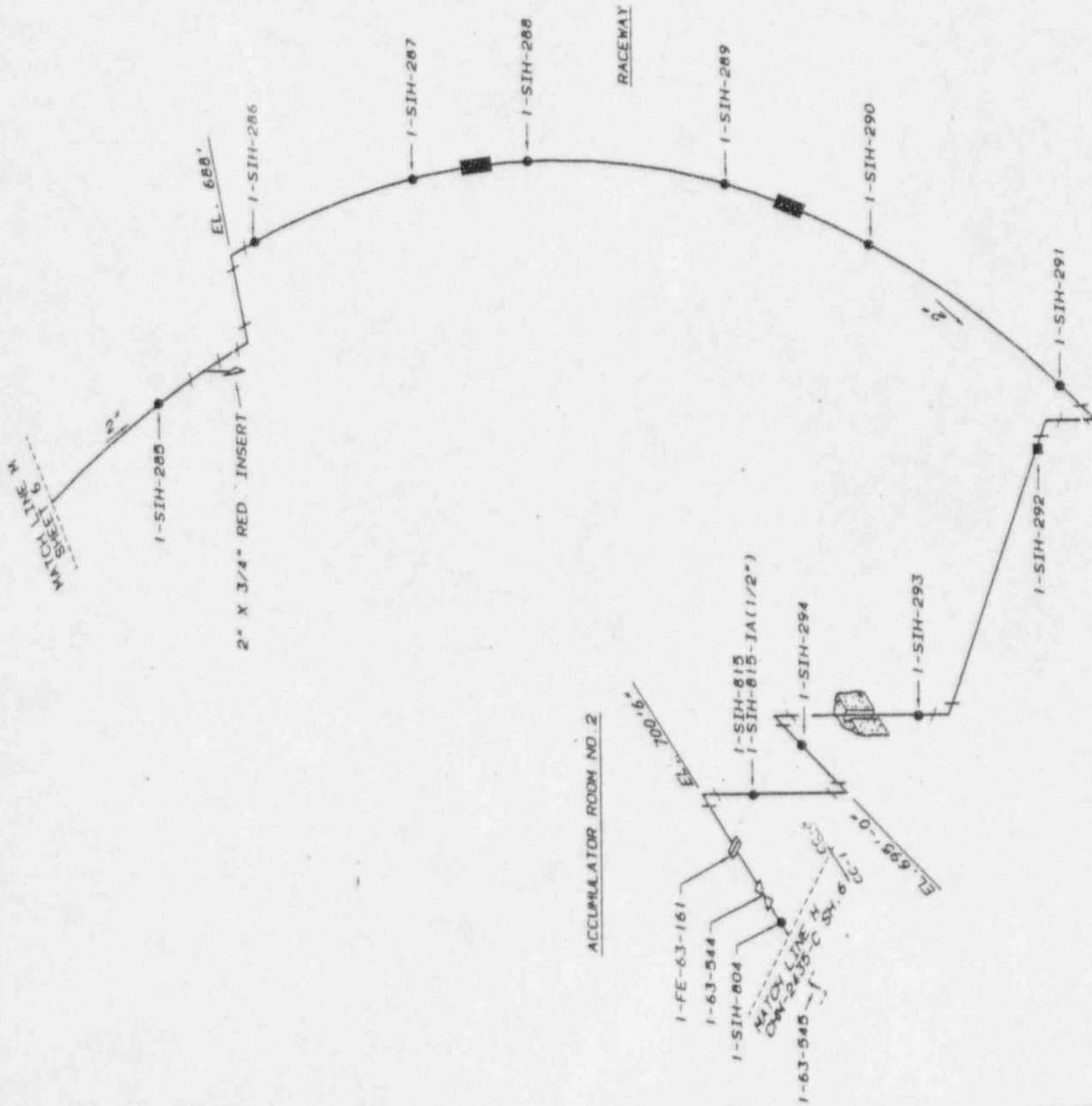
ASME CC-2 (EQUIVALENT)

[illegible]

REFERENCE DRAWINGS:
 CONTRACT NO. TV-424994
 DRAWING NOS. 0600102-09-08
 0600102-09-11

LEGEND

- RIGID SUPPORT (FUNCTION A)
 - RIGID SUPPORT (FUNCTION B)
- ASME CC-2 (EQUIVALENT)



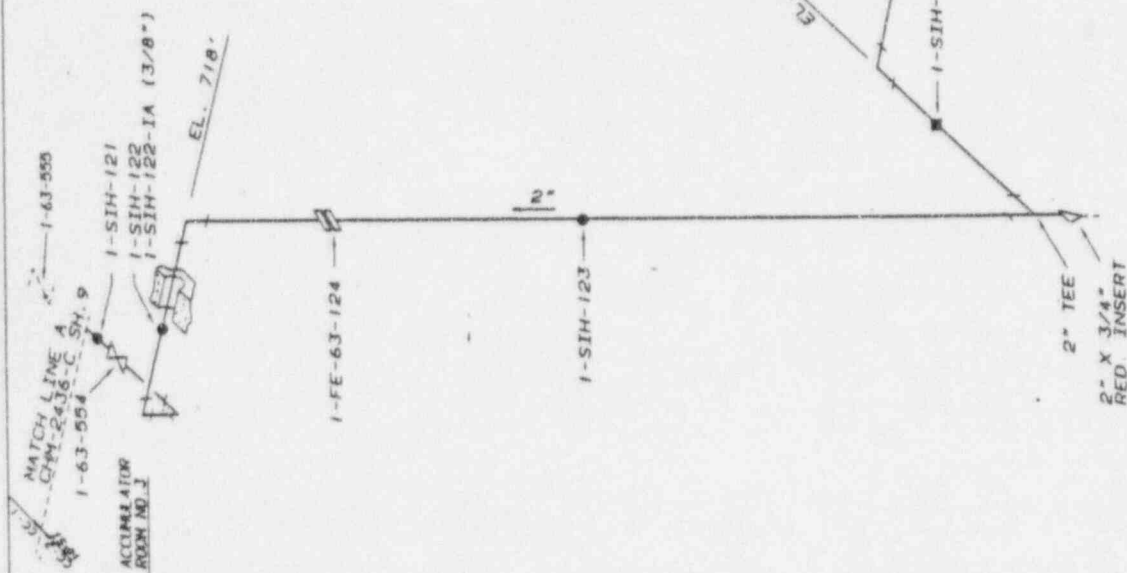
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DATE	BY	CHECKED	APPROVED	DATE	SCALE
12/1/83	WJC	WJC	WJC	12/1/83	SCALE NOT TO SCALE
12/1/83	WJC	WJC	WJC	12/1/83	SCALE NOT TO SCALE
151-048-C-07					

REFERENCE DRAWINGS

CONTRACT NO TV-42439A
DRAWING NO 0600102-09-04

LEGEND

- RIGID SUPPORT (FUNCTION A)
 - RIGID SUPPORT (FUNCTION B)
- ASME CC-2 (EQUIVALENT)



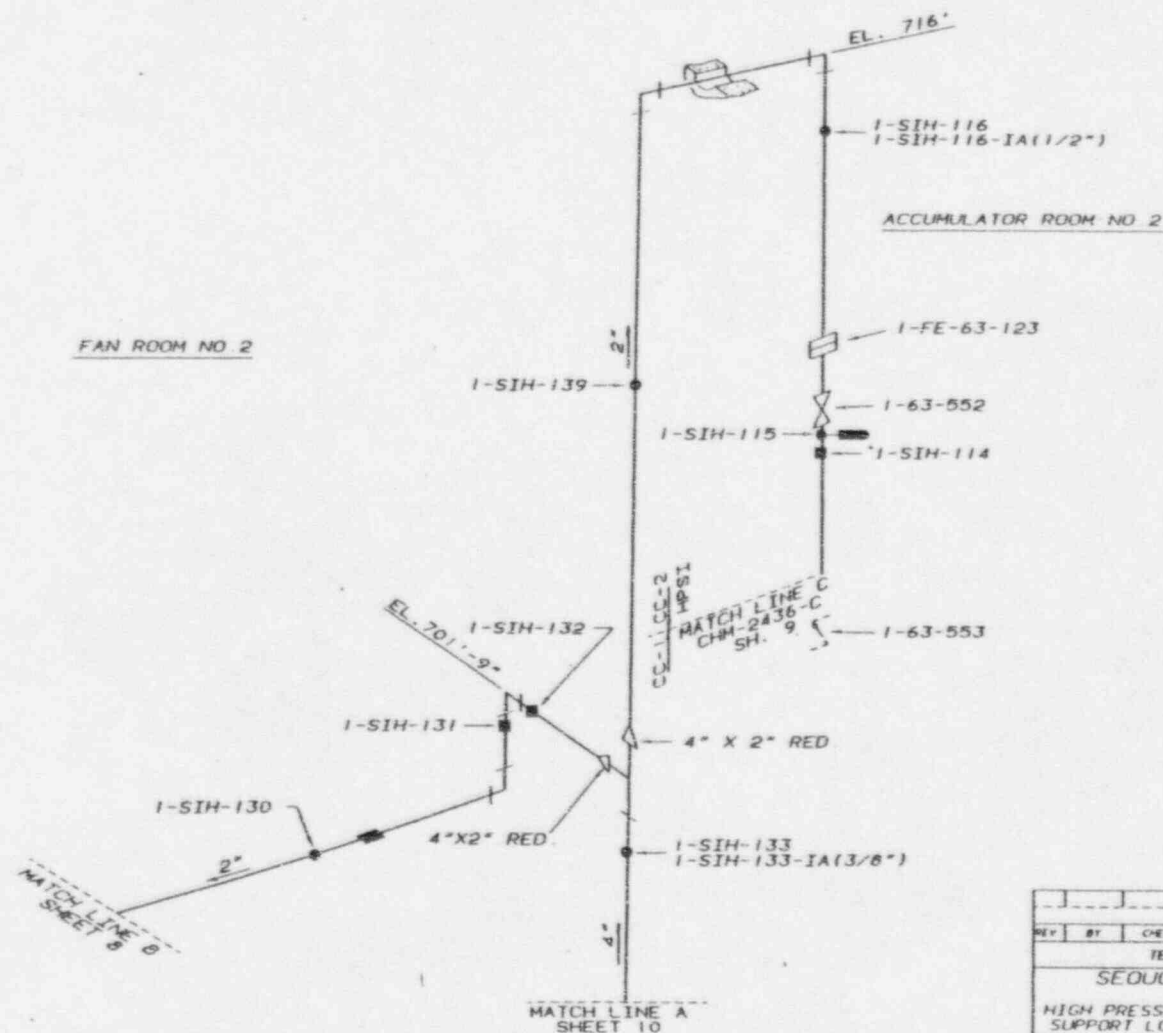
FAN ROOM NO. 2

BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY				
SEOUYAH NUCLEAR PLANT				
UNIT 1				
HIGH PRESSURE SAFETY INJECTION SYSTEM				
SUPPORT LOCATIONS (SAFETY INJECTION)				
DRAWN BY	DATE	12-16-75	SCALE	NOT TO SCALE
CHECKED BY	APPROVED BY		CNO	UNCLASSIFIED DRAWING
SUBMITTED BY				
ISI-0448-C-05				100

REFERENCE DRAWINGS:
 47K435-81 47K435-82
 CONTRACT NO TV-42499A
 DRAWING NOS 0600102-09-04

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)
- ASME CC-2 (EQUIVALENT)

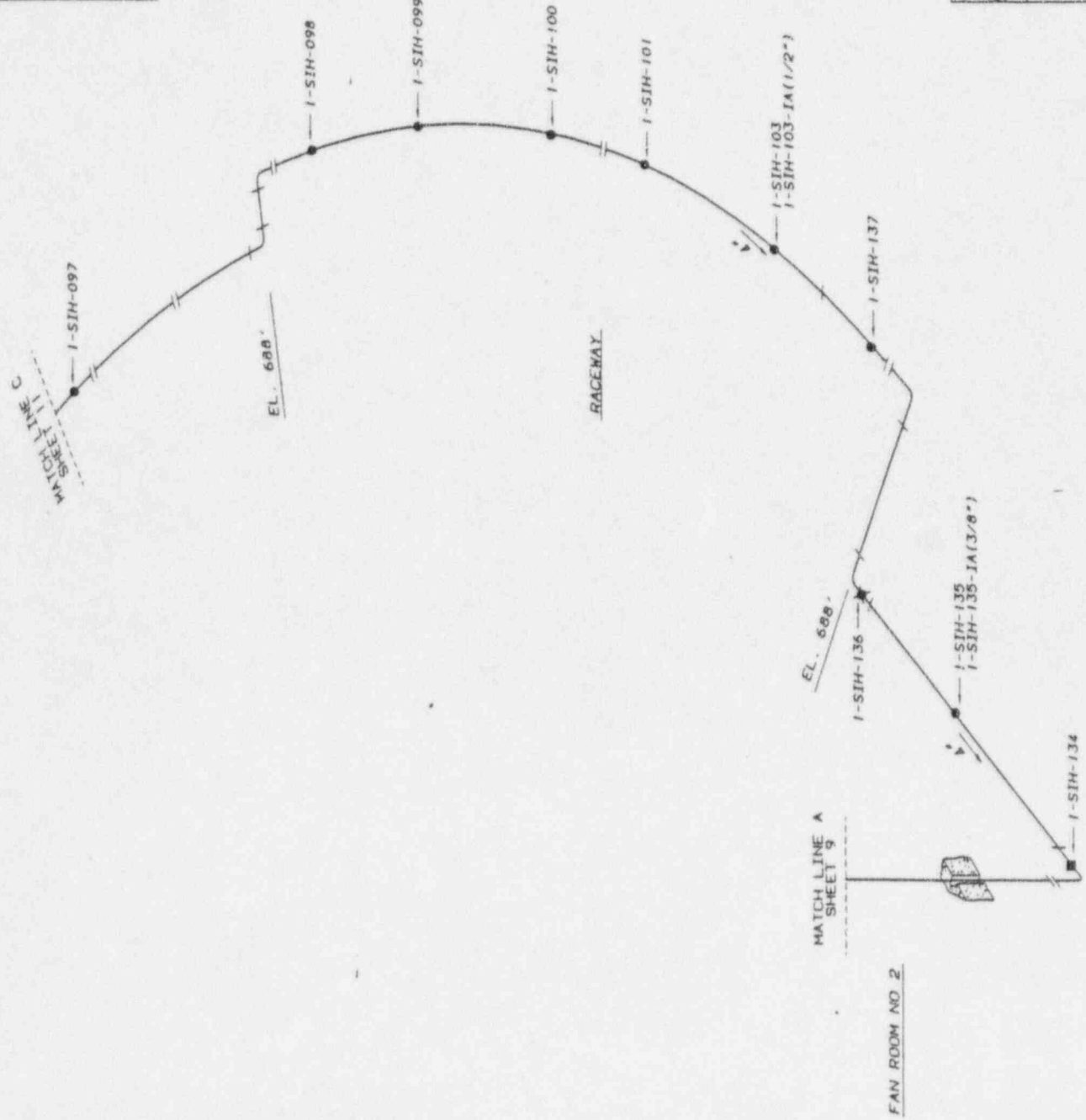


REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	SCALE	NOT TO SCALE		
CHECKED <i>BY</i>	APPROVED <i>HW</i>	CAD MAINTAINED DRAWING	REV		
SUBMITTED <i>18</i>	ISI-0448-C-09		00		

REFERENCE DRAWINGS
 CONTRACT TV-42495A
 DRAWING NO 0600102-09-03

LEGEND
 ■ RIGID SUPPORT (FUNCTION A)
 ● RIGID SUPPORT (FUNCTION B)
 ▣ VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)

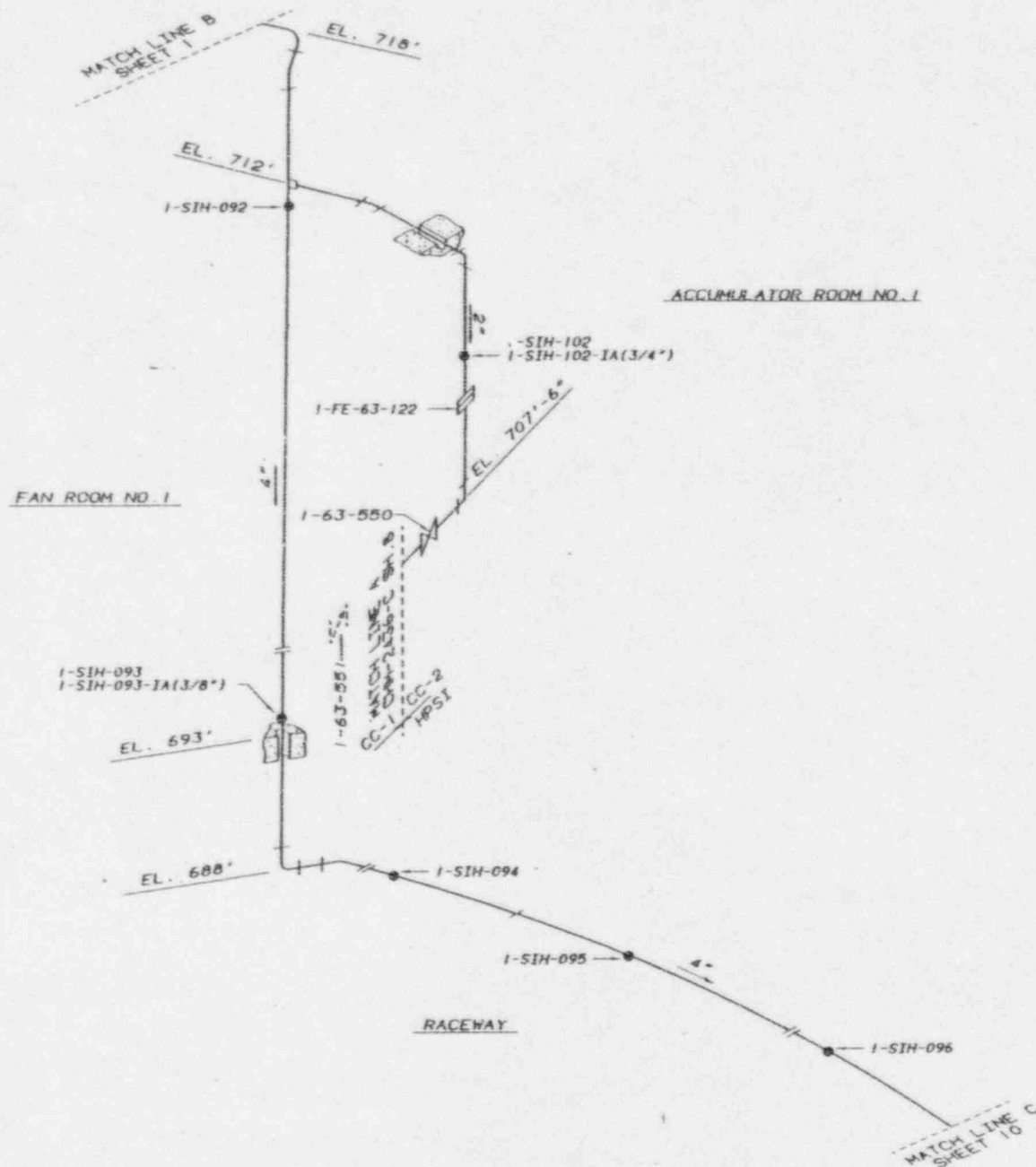


REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					

SEOUYAH NUCLEAR PLANT
 TENNESSEE VALLEY AUTHORITY

UNIT 1
 HIGH PRESSURE SAFETY INJECTION SYSTEM
 SUPPORT LOCATIONS (SAFETY INJECTION)

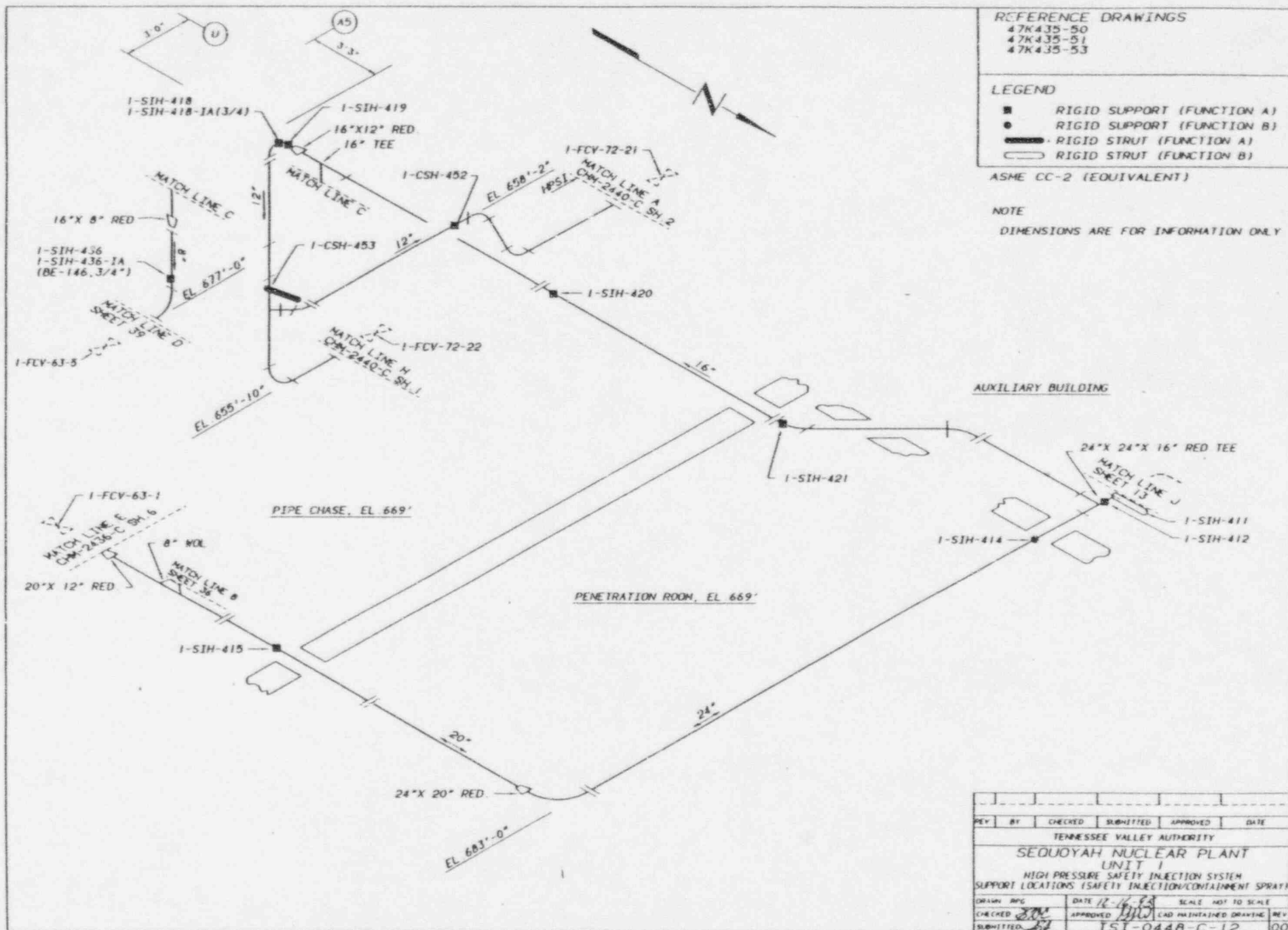
DR-144 RMC
 CHECKED 12/18/73
 APPROVED 1/11/74
 SCALE NOT TO SCALE
 SUBMITTED 1/11/74
 151-0448-C-10 00



REFERENCE DRAWINGS:
 CONTRACT NO. TV-42499A
 DRAWING NO. 0600102-09-03
 0600102-09-01

LEGEND
 ● RIGID SUPPORT (FUNCTION B)
 ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-14-85	SCALE	NOT TO SCALE	
CHECKED	APPROVED	12/14/85	CAD	INITIATED DRAWING	
SUBMITTED	12/14/85	ISI-0448-C-11	00		



REFERENCE DRAWINGS
47K435-50

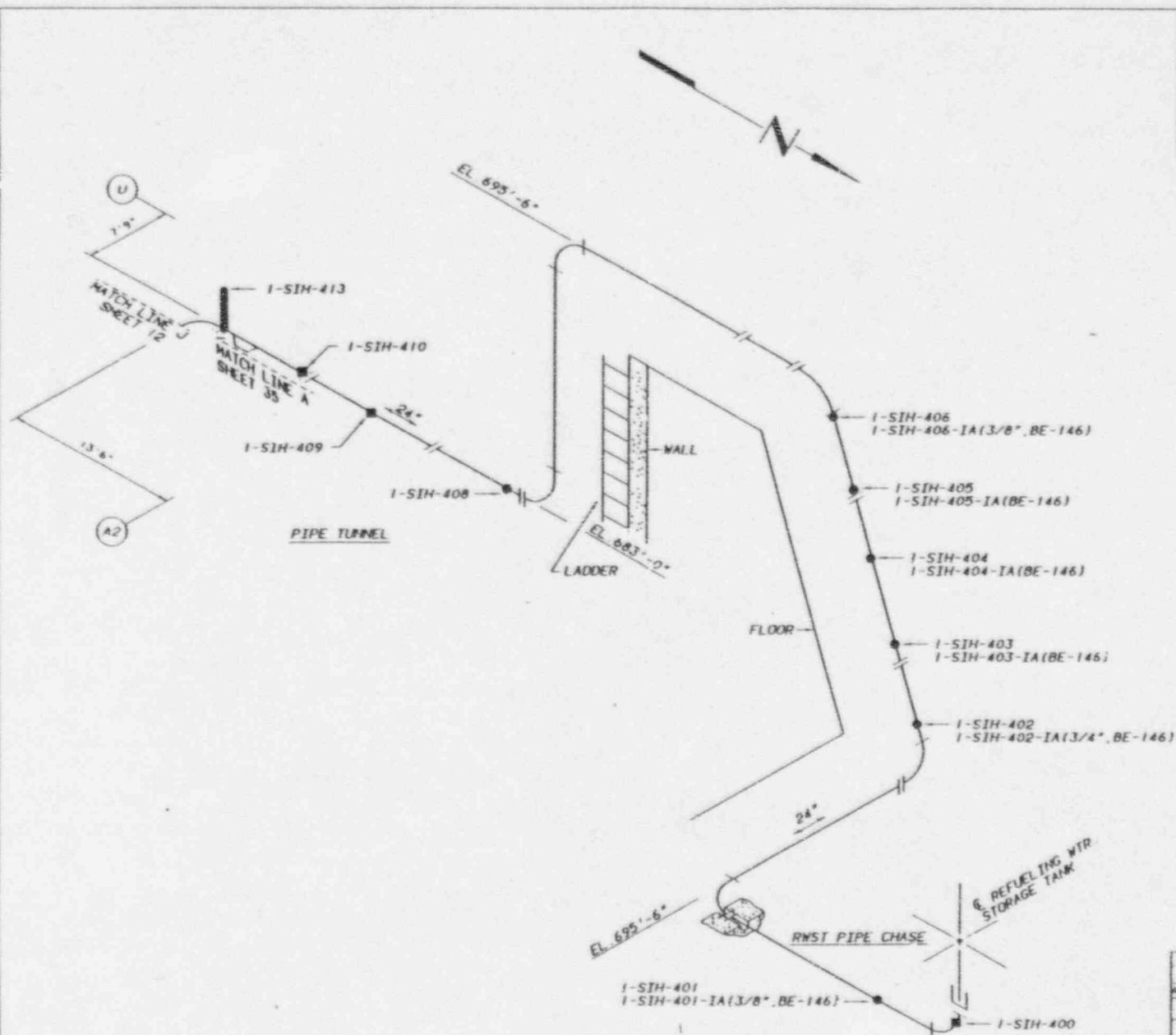
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN	DDC	DATE	12-16-83	SCALE	NOT TO SCALE
CHECKED	DDC	APPROVED	DDC	END	MAINTAINED DRAWING
SUBMITTED	DDC	DATE	12-16-83	SCALE	NOT TO SCALE

REFERENCE DRAWINGS
47K406-59

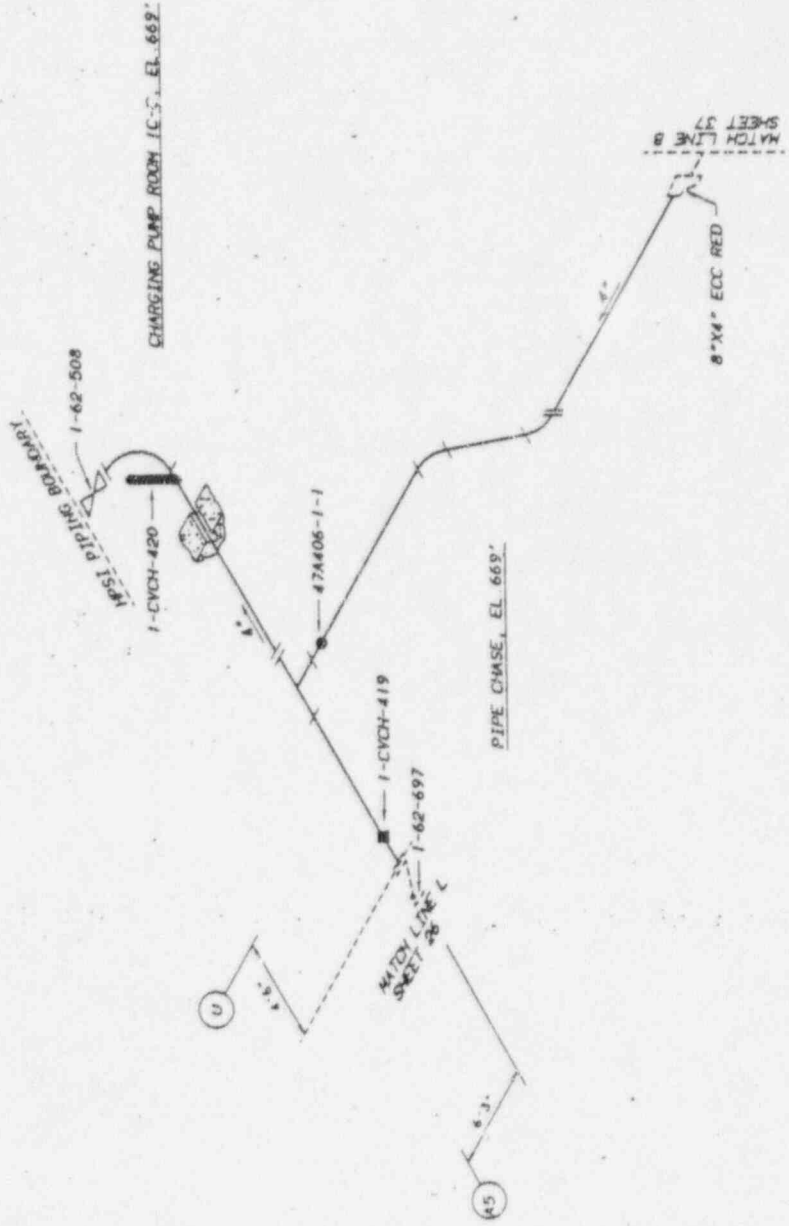
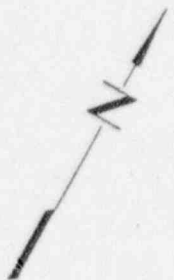
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊠ VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)

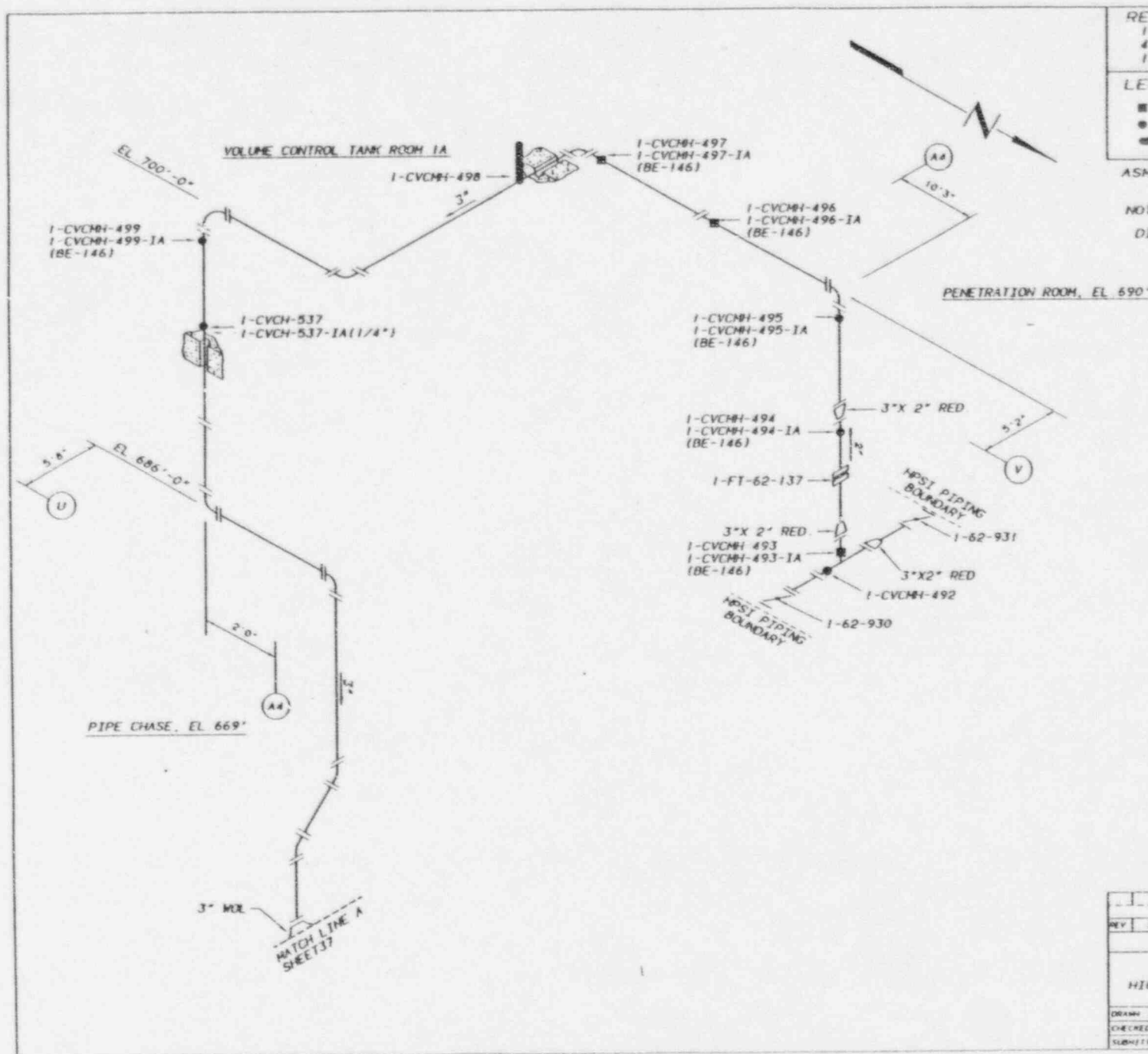
ASME 'CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DESIGN	DATE	SCALE	NOT TO SCALE		
47K406-59	12-8-85	1/4" = 1'-0"	1/4" = 1'-0"		
CHKD	APPROVED	DATE	SCALE		
47K406-59	12-8-85	1/4" = 1'-0"	1/4" = 1'-0"		
SUBMITTED	DATE	SCALE	NOT TO SCALE		
47K406-59	12-8-85	1/4" = 1'-0"	1/4" = 1'-0"		
ISI-0448-C-14					
106					



REFERENCE DRAWINGS

1-47K406-57
47K455-63
1-47K406-520-03

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN BY	DATE	10-16-85	SCALE	NEXT TO SCALE	
CHECKED BY	APPROVED	10/16/85	CAD MAINTAINED DRAWING	REV	
SUBMITTED	10/16/85	151-0448-C-15	00		

REFERENCE DRAWINGS

1-47K406-53
47K406-54
47K406-61
CONTRACT NO. TV-42499A
DRAWING NO. 0600102-09-05

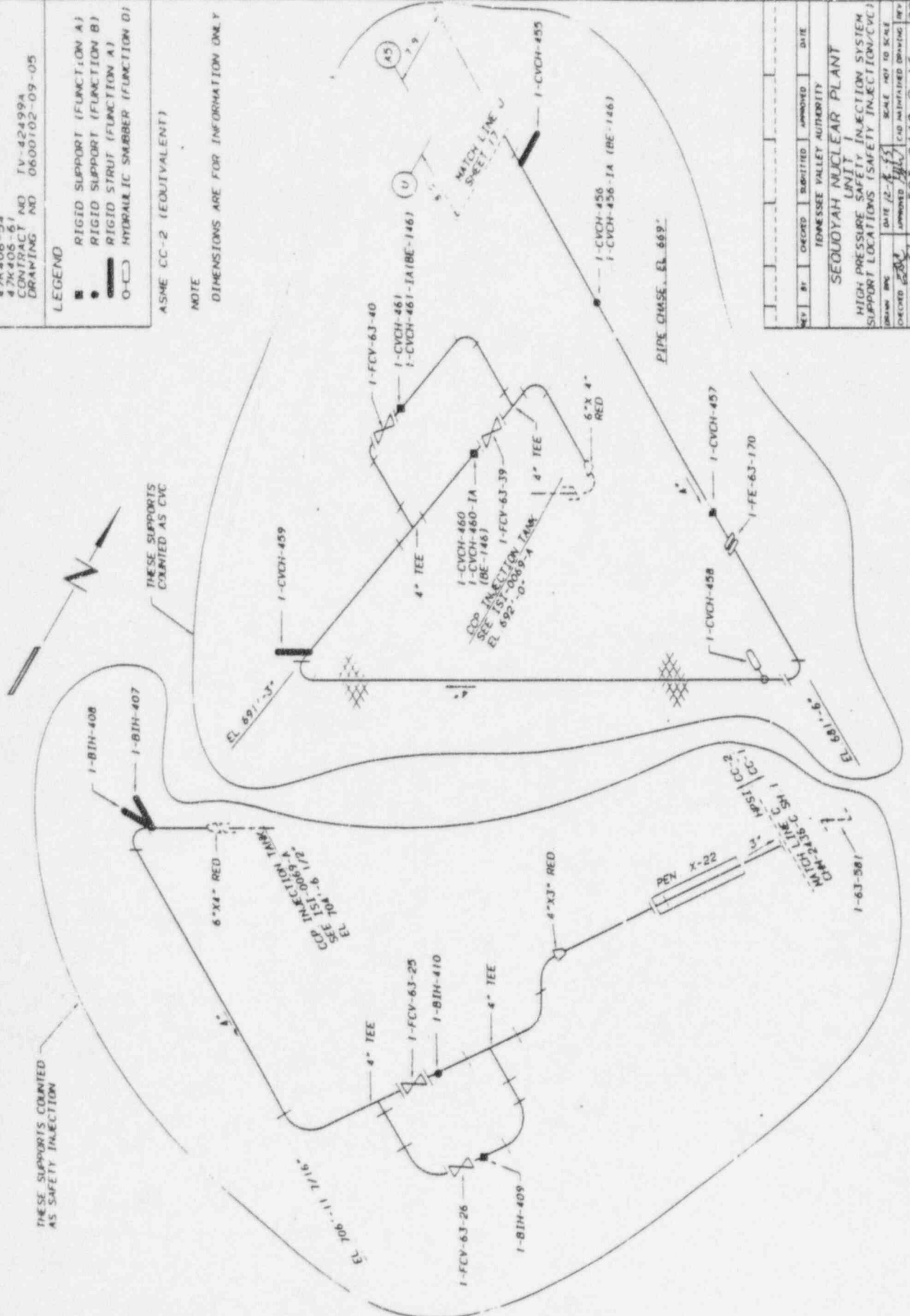
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)
- HYDRAULIC SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)

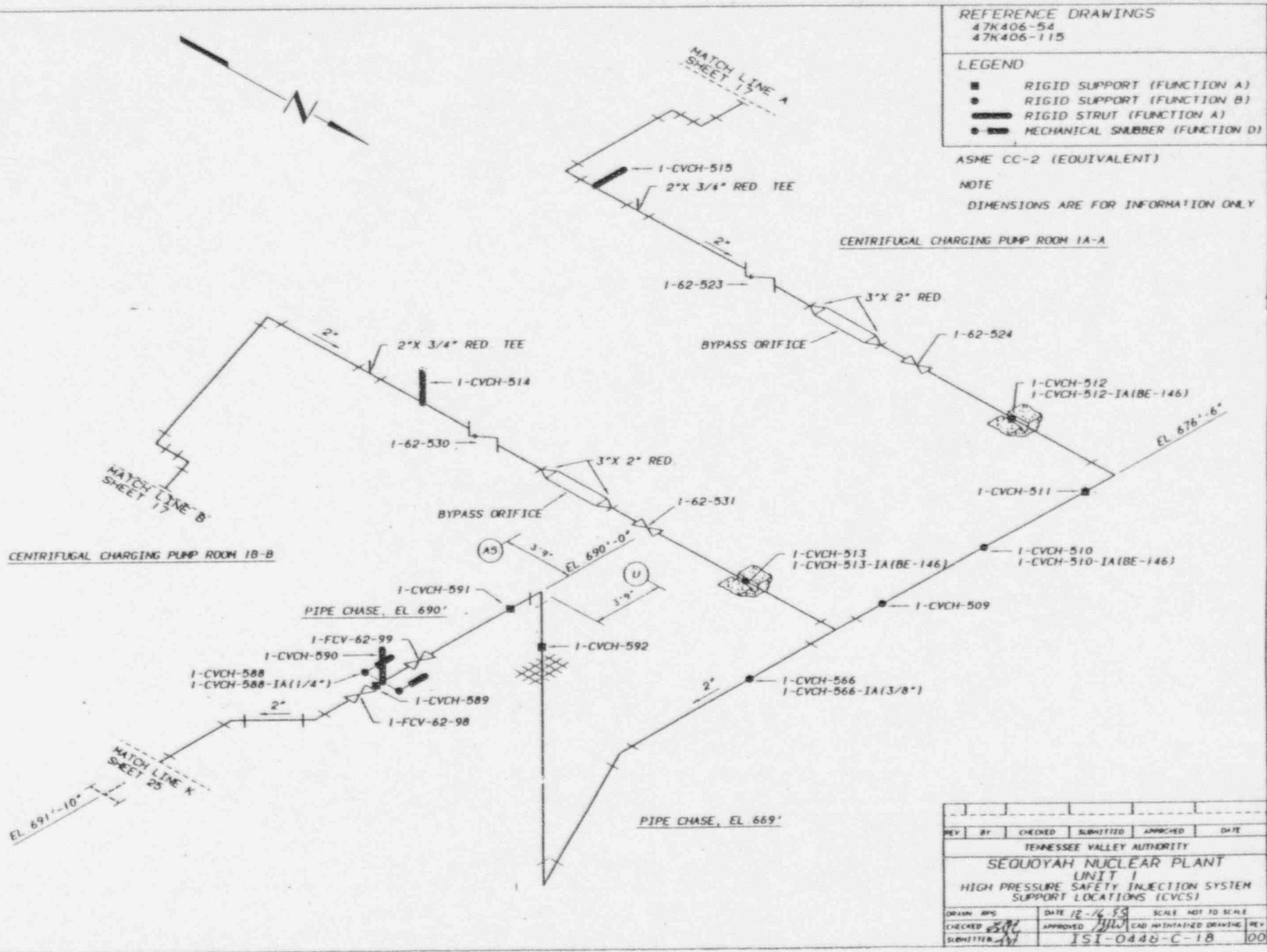
NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	DATE	REVISION	APPROVED	DATE
1

SEQUOYAH NUCLEAR PLANT	
HIGH PRESSURE SAFETY INJECTION SYSTEM	
SUPPORT LOCATIONS (SAFETY INJECTION/CVC)	
DATE 12-8-85	SCALE NOT TO SCALE
CHECKED [Signature]	APPROVED [Signature]
SUBMITTED [Signature]	ISI-0448-C-16
00	00



REFERENCE DRAWINGS

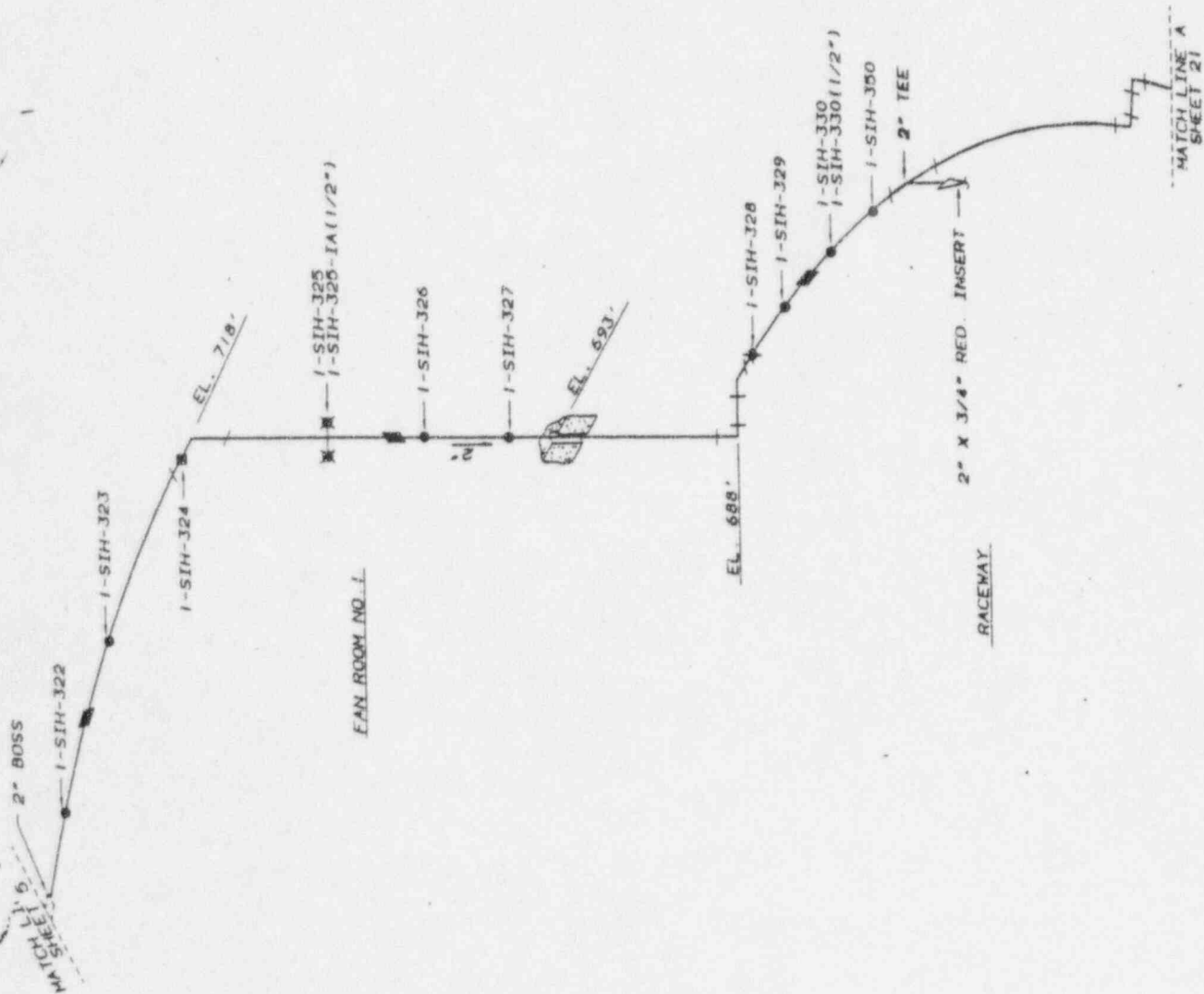
47K435-83
CONTRACT NO. TV-42499A
DRAWING NO. 0600102-09-09

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✱ VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN NO.	10238	DATE / 2 / 83	SCALE	NOT TO SCALE	
CHECKED	W	APPROVED	ISI-0448-C-20		00
SUBMITTED					



REFERENCE DRAWINGS
47K435-B3

LEGEND
● RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

MATCH LINE A
SHEET 20

1-SIH-351

MATCH LINE B
SHEET 22

1-SIH-356

1-SIH-357
1-SIH-357-1A(13/8")

2"

1-SIH-355

1-SIH-354

1-SIH-353

1-SIH-352

EL. 680'

RACERAY

REV	DATE	BY	CHKD	SUBMITTED	APPROVED	DATE
1	12/11/33	W. H. C.				
2	12/11/33	W. H. C.				
3	12/11/33	W. H. C.				
4	12/11/33	W. H. C.				
5	12/11/33	W. H. C.				
6	12/11/33	W. H. C.				
7	12/11/33	W. H. C.				
8	12/11/33	W. H. C.				
9	12/11/33	W. H. C.				
10	12/11/33	W. H. C.				
11	12/11/33	W. H. C.				
12	12/11/33	W. H. C.				
13	12/11/33	W. H. C.				
14	12/11/33	W. H. C.				
15	12/11/33	W. H. C.				
16	12/11/33	W. H. C.				
17	12/11/33	W. H. C.				
18	12/11/33	W. H. C.				
19	12/11/33	W. H. C.				
20	12/11/33	W. H. C.				
21	12/11/33	W. H. C.				
22	12/11/33	W. H. C.				
23	12/11/33	W. H. C.				
24	12/11/33	W. H. C.				
25	12/11/33	W. H. C.				
26	12/11/33	W. H. C.				
27	12/11/33	W. H. C.				
28	12/11/33	W. H. C.				
29	12/11/33	W. H. C.				
30	12/11/33	W. H. C.				
31	12/11/33	W. H. C.				
32	12/11/33	W. H. C.				
33	12/11/33	W. H. C.				
34	12/11/33	W. H. C.				
35	12/11/33	W. H. C.				
36	12/11/33	W. H. C.				
37	12/11/33	W. H. C.				
38	12/11/33	W. H. C.				
39	12/11/33	W. H. C.				
40	12/11/33	W. H. C.				
41	12/11/33	W. H. C.				
42	12/11/33	W. H. C.				
43	12/11/33	W. H. C.				
44	12/11/33	W. H. C.				
45	12/11/33	W. H. C.				
46	12/11/33	W. H. C.				
47	12/11/33	W. H. C.				
48	12/11/33	W. H. C.				
49	12/11/33	W. H. C.				
50	12/11/33	W. H. C.				
51	12/11/33	W. H. C.				
52	12/11/33	W. H. C.				
53	12/11/33	W. H. C.				
54	12/11/33	W. H. C.				
55	12/11/33	W. H. C.				
56	12/11/33	W. H. C.				
57	12/11/33	W. H. C.				
58	12/11/33	W. H. C.				
59	12/11/33	W. H. C.				
60	12/11/33	W. H. C.				
61	12/11/33	W. H. C.				
62	12/11/33	W. H. C.				
63	12/11/33	W. H. C.				
64	12/11/33	W. H. C.				
65	12/11/33	W. H. C.				
66	12/11/33	W. H. C.				
67	12/11/33	W. H. C.				
68	12/11/33	W. H. C.				
69	12/11/33	W. H. C.				
70	12/11/33	W. H. C.				
71	12/11/33	W. H. C.				
72	12/11/33	W. H. C.				
73	12/11/33	W. H. C.				
74	12/11/33	W. H. C.				
75	12/11/33	W. H. C.				
76	12/11/33	W. H. C.				
77	12/11/33	W. H. C.				
78	12/11/33	W. H. C.				
79	12/11/33	W. H. C.				
80	12/11/33	W. H. C.				
81	12/11/33	W. H. C.				
82	12/11/33	W. H. C.				
83	12/11/33	W. H. C.				
84	12/11/33	W. H. C.				
85	12/11/33	W. H. C.				
86	12/11/33	W. H. C.				
87	12/11/33	W. H. C.				
88	12/11/33	W. H. C.				
89	12/11/33	W. H. C.				
90	12/11/33	W. H. C.				
91	12/11/33	W. H. C.				
92	12/11/33	W. H. C.				
93	12/11/33	W. H. C.				
94	12/11/33	W. H. C.				
95	12/11/33	W. H. C.				
96	12/11/33	W. H. C.				
97	12/11/33	W. H. C.				
98	12/11/33	W. H. C.				
99	12/11/33	W. H. C.				
100	12/11/33	W. H. C.				

SECOYAH NUCLEAR PLANT
UNIT 1
HIGH PRESSURE SAFETY INJECTION SYSTEM
SURFPORT LOCATIONS (SAFETY INJECTION)
SCALE: 1/4" = 1'-0"
DATE: 12/11/33
APPROVED: W. H. C.
INCHES: 1/4"
FEET: 1'-0"
151-0440-C-21
00

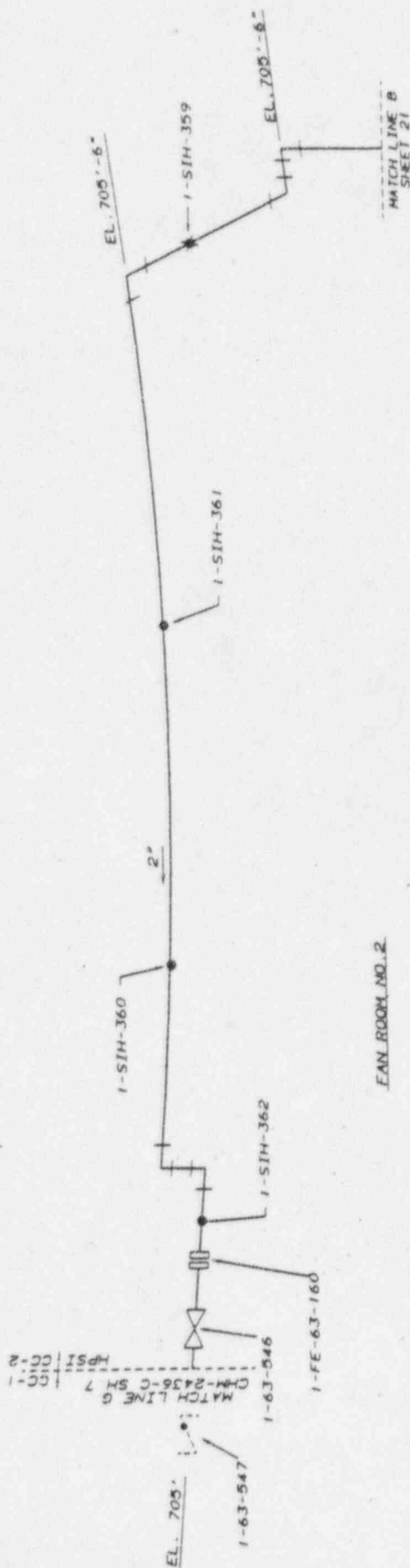
REFERENCE DRAWINGS

47K435-83

LEGEND

- RIGID SUPPORT (FUNCTION B)
- ⊠ VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)



FAN ROOM NO. 2

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN AND	DATE 12-8-83	SCALE NOT TO SCALE			
CHECKED	APPROVED	DATE 12-8-83			
REVISIONS	REVISIONS	REVISIONS			
1	1	1			
2	2	2			
3	3	3			
4	4	4			
5	5	5			
6	6	6			
7	7	7			
8	8	8			
9	9	9			
10	10	10			
11	11	11			
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96	96	96			
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98	98	98			
99	99	99			
100	100	100			

REFERENCE DRAWINGS
1-47K406-57
47K435-53

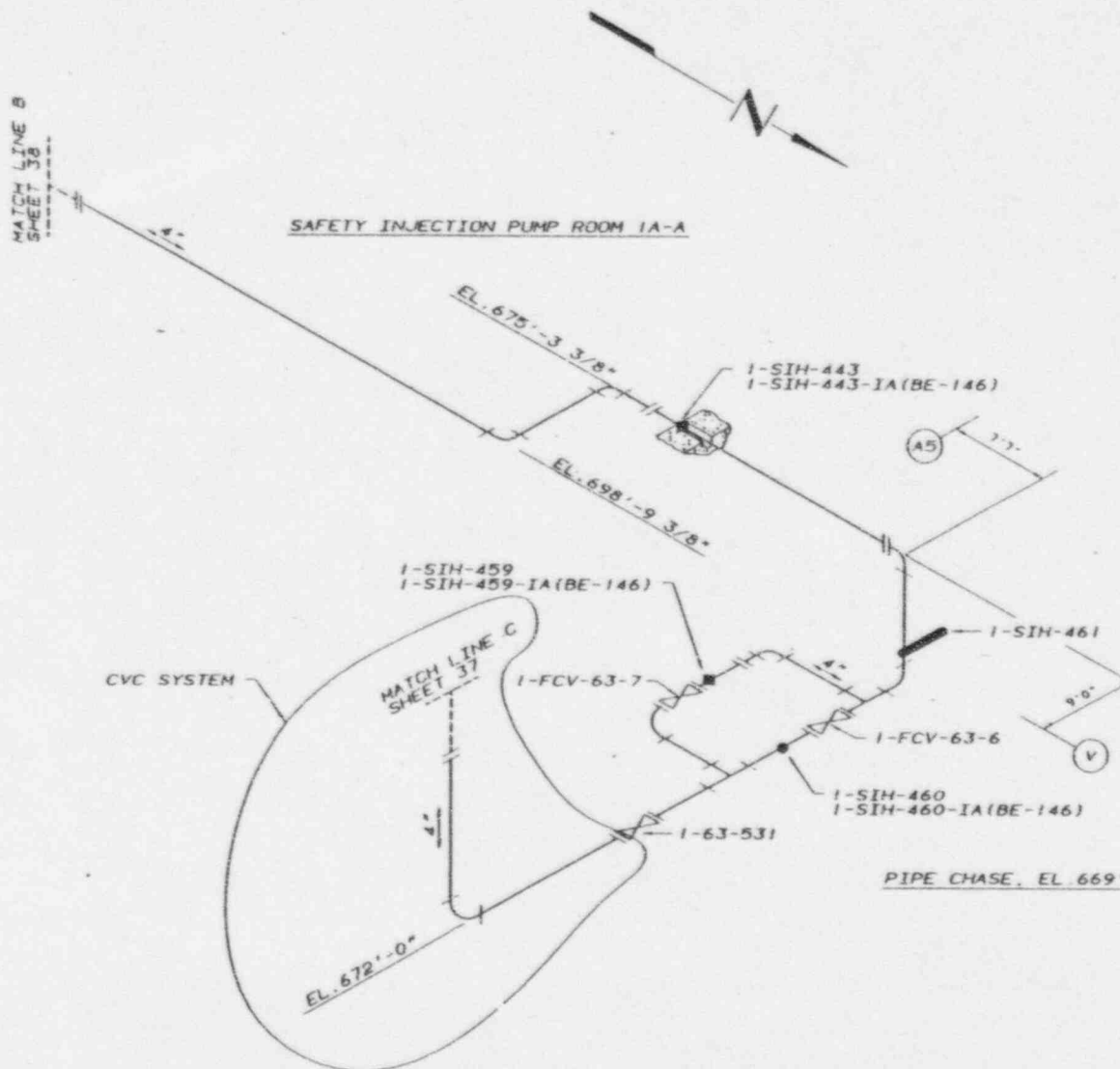
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ▬ RIGID STRUT (FUNCTION A)

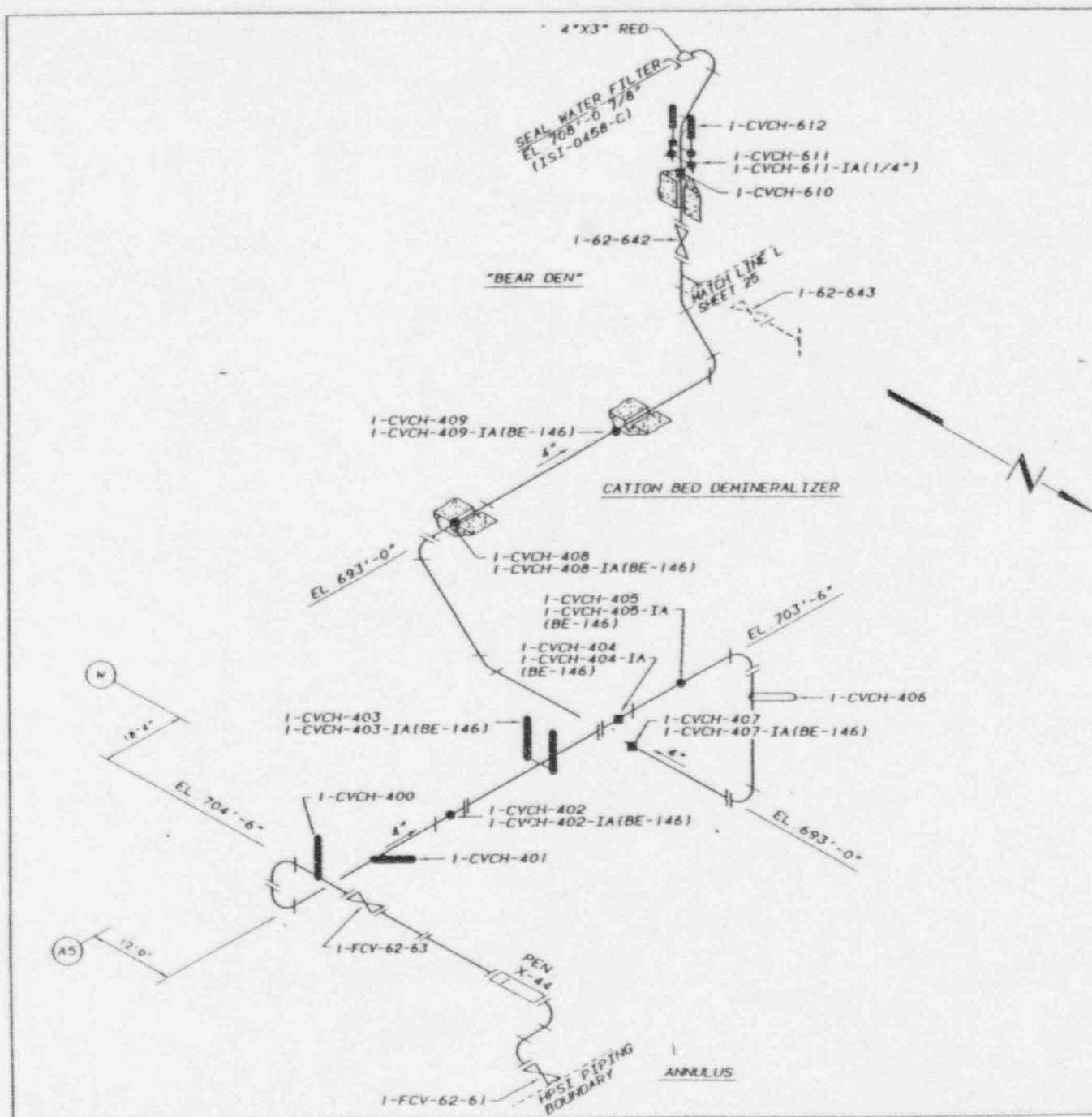
ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	HLW	CAD	MAINTAINED DRAWING	REV
SUBMITTED	DATE	12-16-85	SCALE	NOT TO SCALE	
ISI-0448-C-23 00					



REFERENCE DRAWINGS

1-47K406-50
47K406-139

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊗ VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)
- RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN BY	DATE	REV	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	DATE	CAD MAINTAINED DRAWING	REV	
SUBMITTED BY	ISI-0448-C-24	00			

REFERENCE DRAWINGS

47K406-50
47K406-59

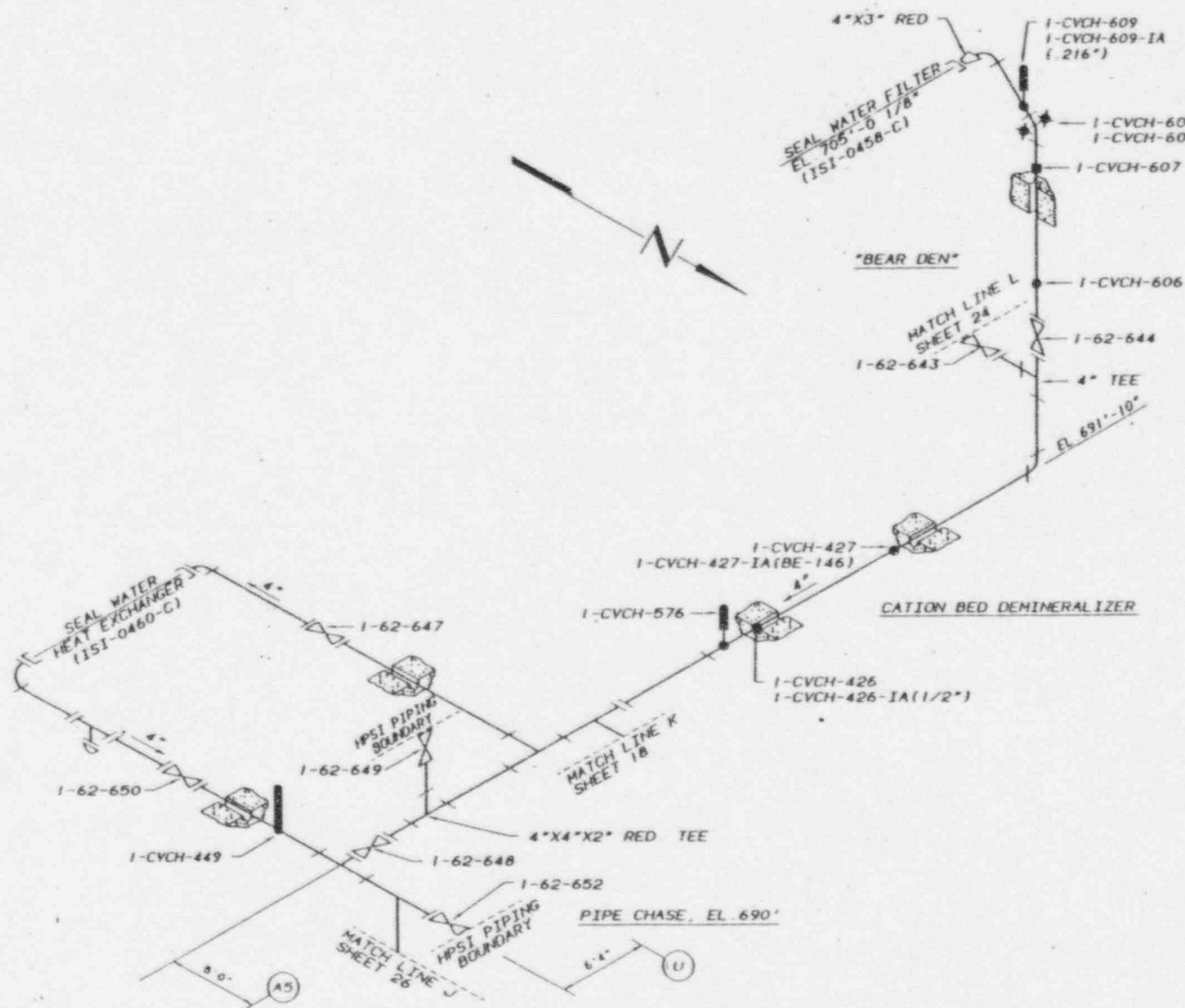
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊠ VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)
- MECHANICAL SHUBBER (FUNCTION D)

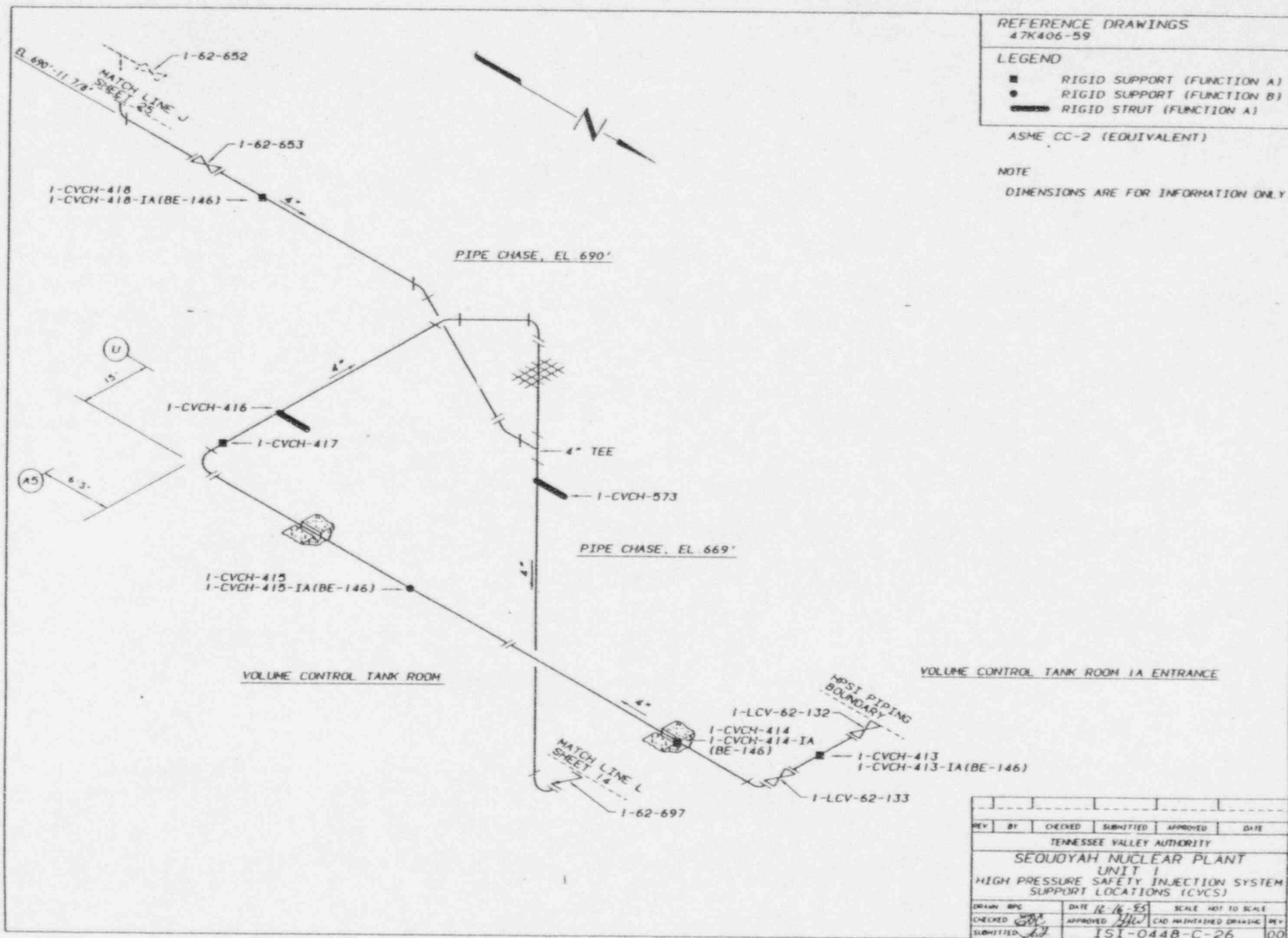
ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN BY	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	APPROVED	ISI	CAD MAINTAINED DRAWING	REV	
SUBMITTED	ISI-0448-C-25	00			



REFERENCE DRAWINGS
47K435-525-01
47K435-525-02

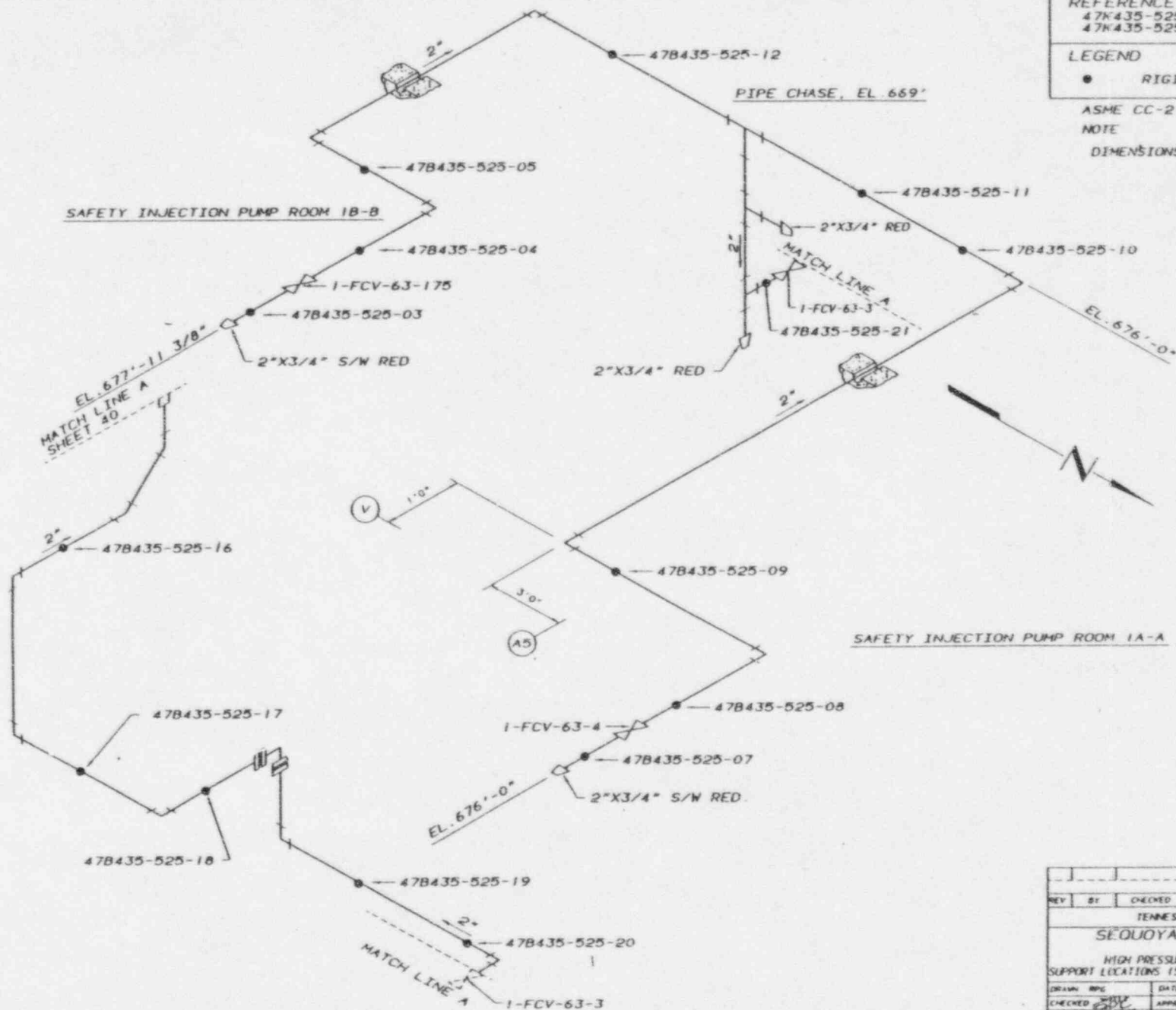
LEGEND

● RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION/CONTAINMENT SPRAYS)					
DRAWN	RPG	DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED	SPV	APPROVED	HLW	CAD	MAINTAINED DRAWING
SUBMITTED	HL	DATE	12-16-95	SCALE	NOT TO SCALE
ISI-0448-C-27					

REFERENCE DRAWINGS

1-47K406-60
CONTRACT NO. TV-42499A
DRAWING NOS. 0600102-08-01
0600102-08-02
0600102-08-04
0600102-08-05

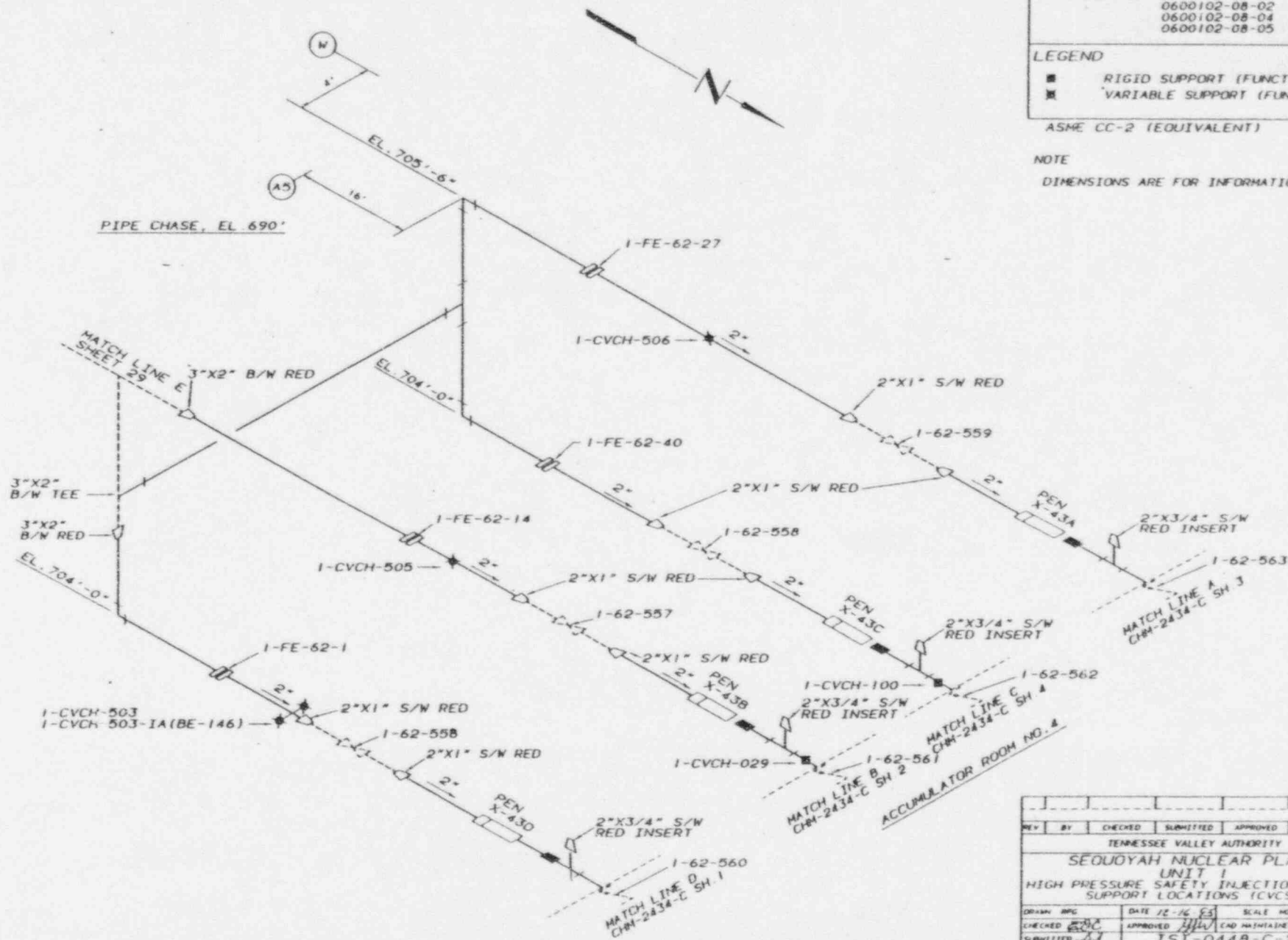
LEGEND

- RIGID SUPPORT (FUNCTION A)
- VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN: APC	DATE: 12-16-85	SCALE: NOT TO SCALE			
CHECKED: <i>[Signature]</i>	APPROVED: <i>[Signature]</i>	END MAINTAINED DRAWING			
SUBMITTED: <i>[Signature]</i>	ISI-0448-C-28	00			

REFERENCE DRAWINGS
1-47K406-60

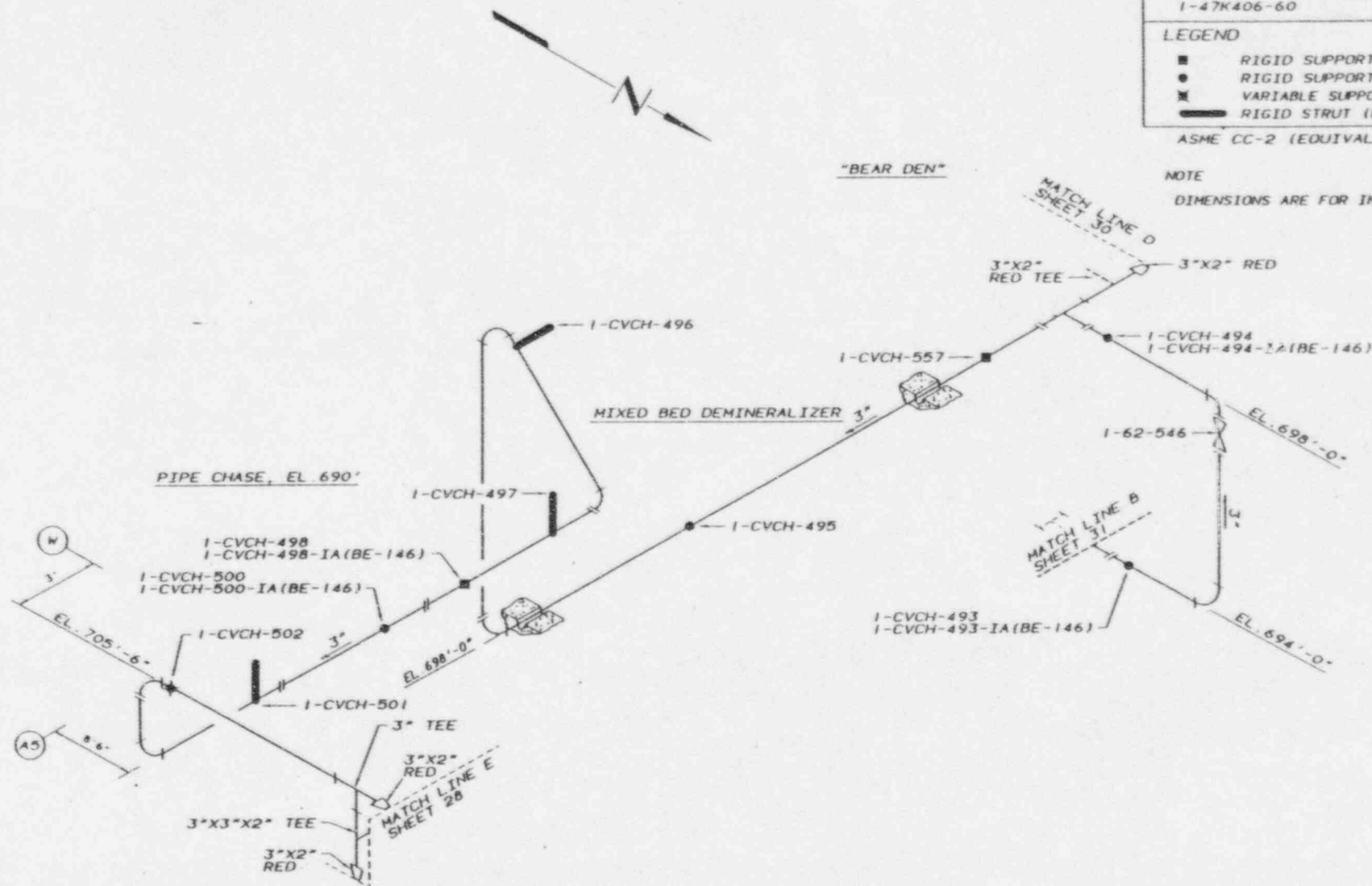
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN	WPC	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	SW	APPROVED	AW	CAD MAINTAINED DRAWING	REV
SUBMITTED	SW	ISI-0448-C-29			00

REFERENCE DRAWINGS

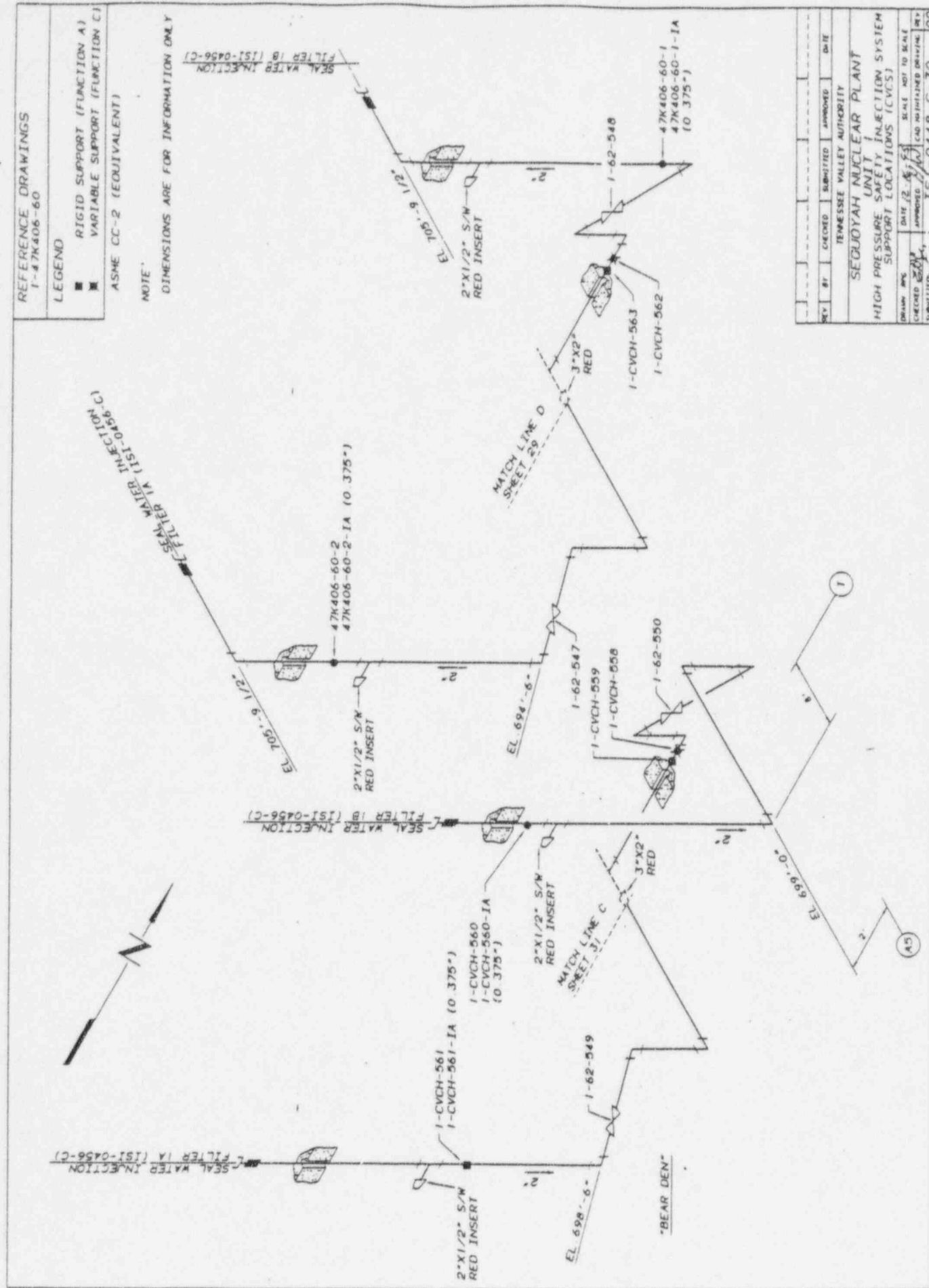
1-47K406-60

LEGEND

- RIGID SUPPORT (FUNCTION A)
- VARIABLE SUPPORT (FUNCTION C)
- ASME CC-2 (EQUIVALENT)

NOTE:

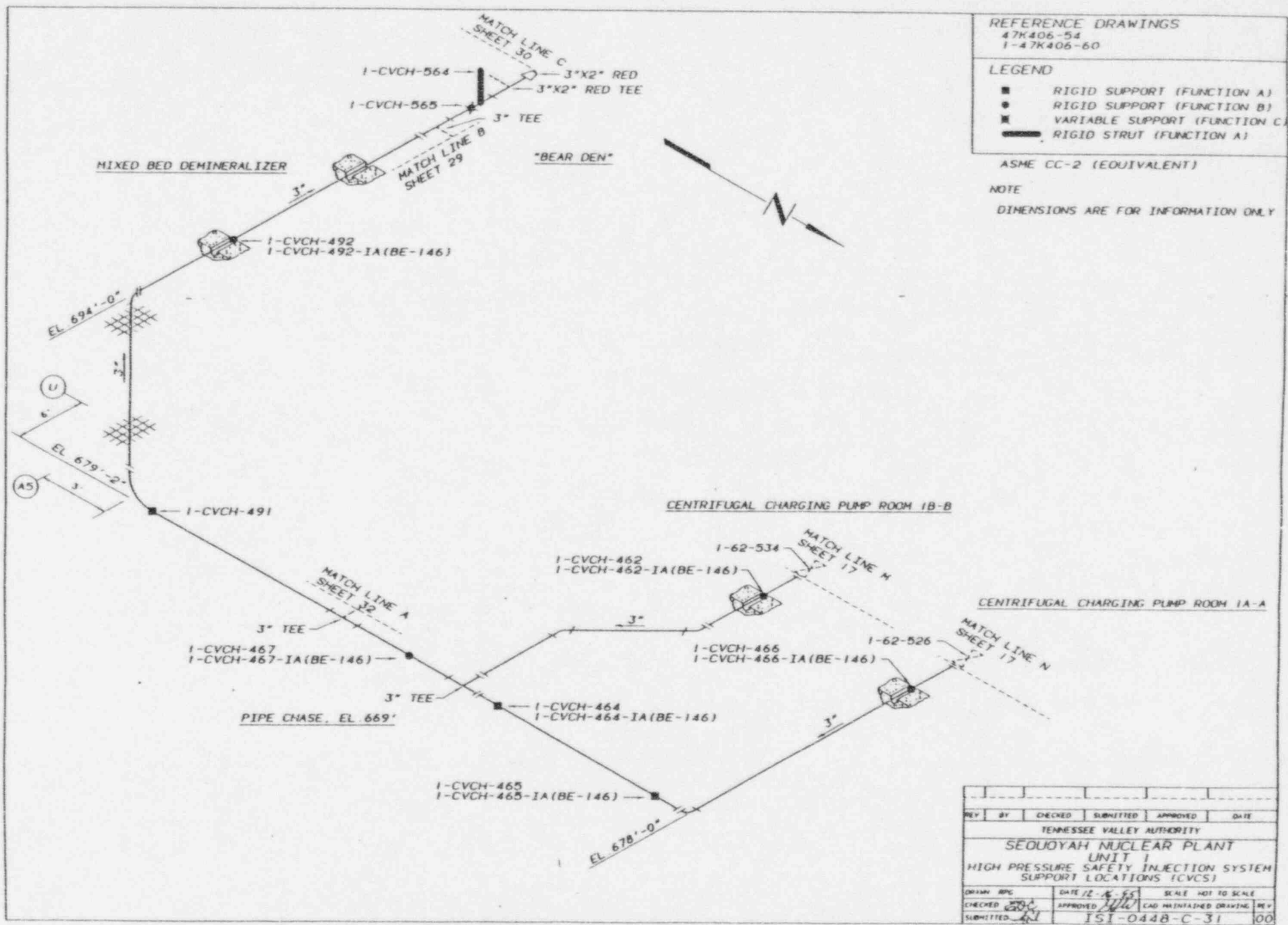
DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					

TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCs)					

DESIGN	DATE	SCALE	NOT TO SCALE
CHECKED	12/1/83	1/4" = 1'-0"	
SUBMITTED	12/1/83	1/4" = 1'-0"	



REFERENCE DRAWINGS
47K406-54

47N406-54

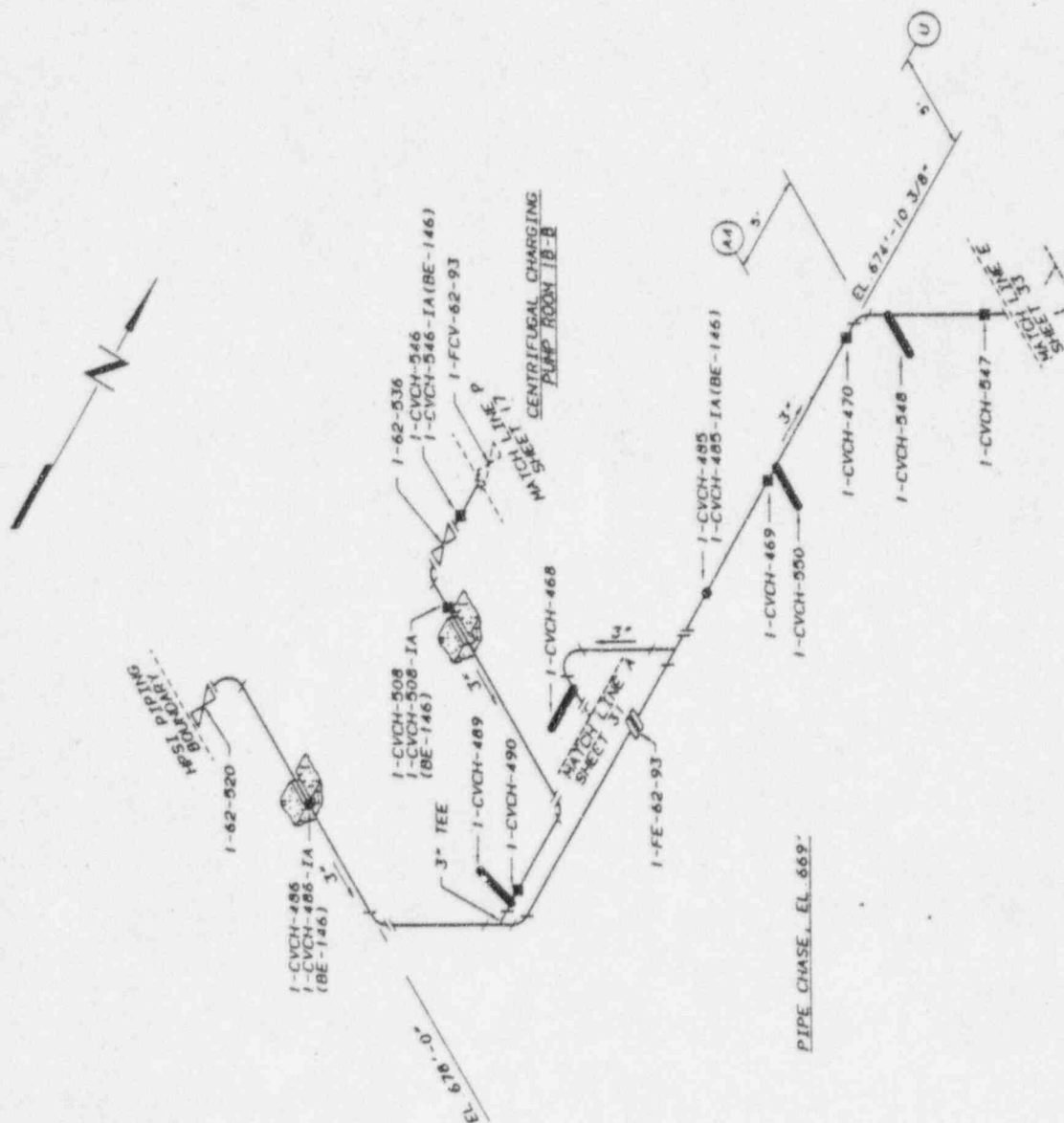
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- △ VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



NO.	BY	ORDERED	REMITTED	APPROVED	DATE
<p style="text-align: center;">TENNESSEE VALLEY AUTHORITY</p> <p style="text-align: center;">SEQUOYAH NUCLEAR PLANT</p> <p style="text-align: center;">UNIT 1</p> <p style="text-align: center;">HIGH PRESSURE SAFETY INJECTION SYSTEM</p> <p style="text-align: center;">SUPPORT LOCATIONS (CVC'S)</p>					
ORDINANCE NO.	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	WFO	APPROVED	WFO	1-CAD	UNFINISHED DRAFTING
UNLIMITED	0-6			ISI-0448-C-3	00

REFERENCE DRAWINGS
47K406-54

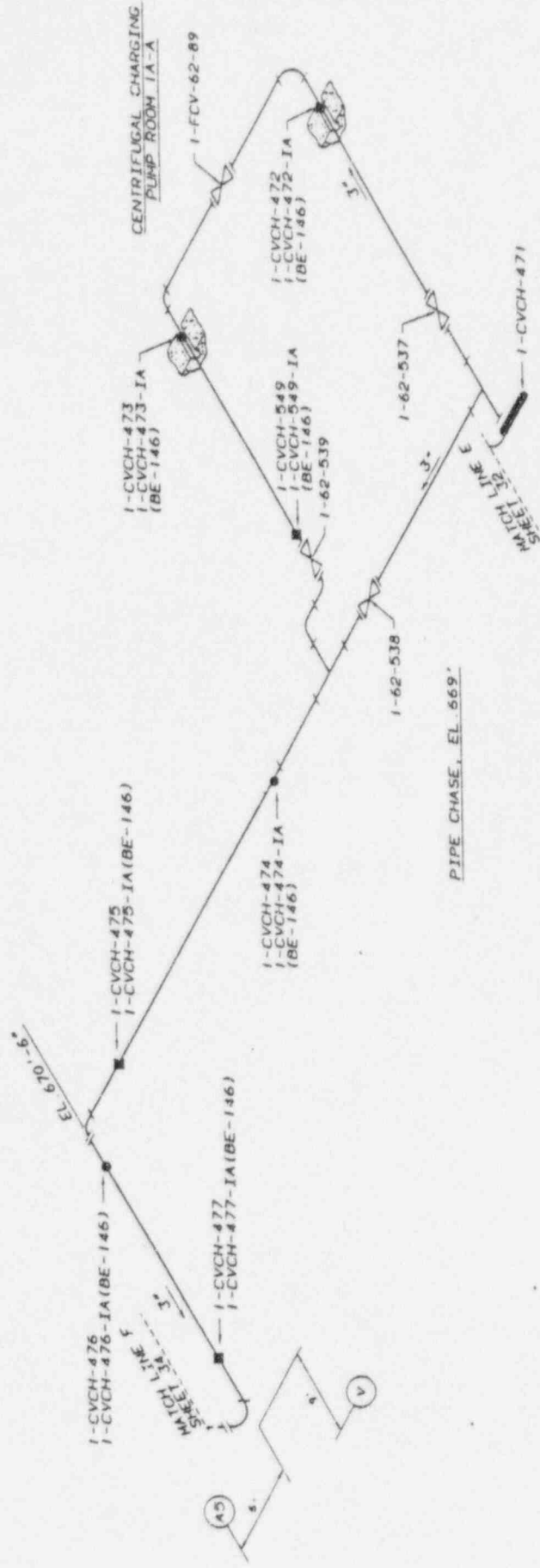
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DATE	12/1/83	SCALE	NOT TO SCALE		
CHECKED	EBB	APPROVED	YPC	CAD	MINI-MAX DRAWING
SUBMITTER	20	ISI-044B-C-33			

REFERENCE DRAWINGS
47K406-54

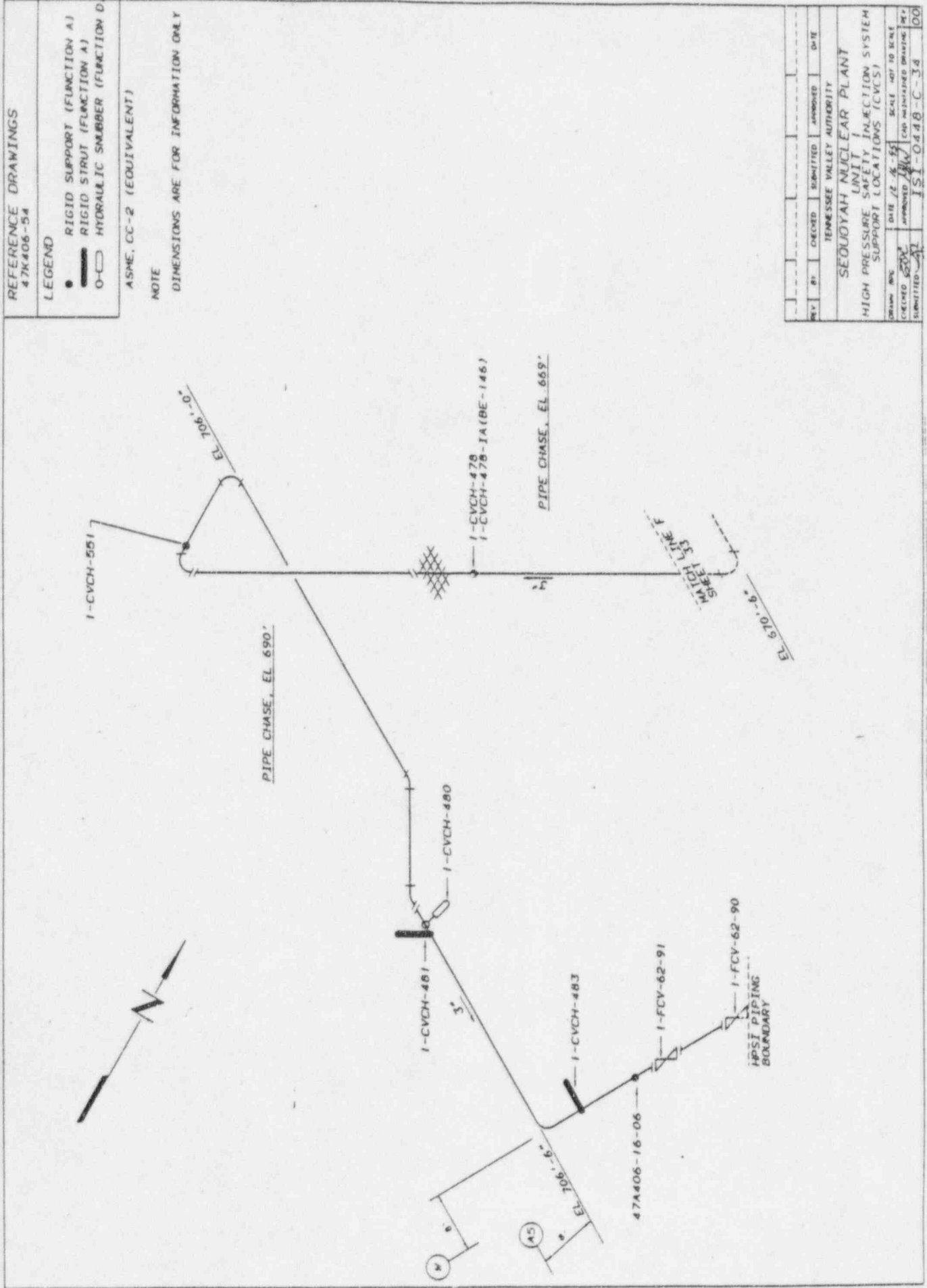
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID STRUT (FUNCTION A)
- HYDRAULIC SNUBBER (FUNCTION D)

ASME, CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN BY	DATE	SCALE	NOT TO SCALE	REV	
CHECKED	DATE	SCALE	NOT TO SCALE	REV	
SUBMITTED	DATE	SCALE	NOT TO SCALE	REV	
					00

REFERENCE DRAWINGS
1-47K406-57

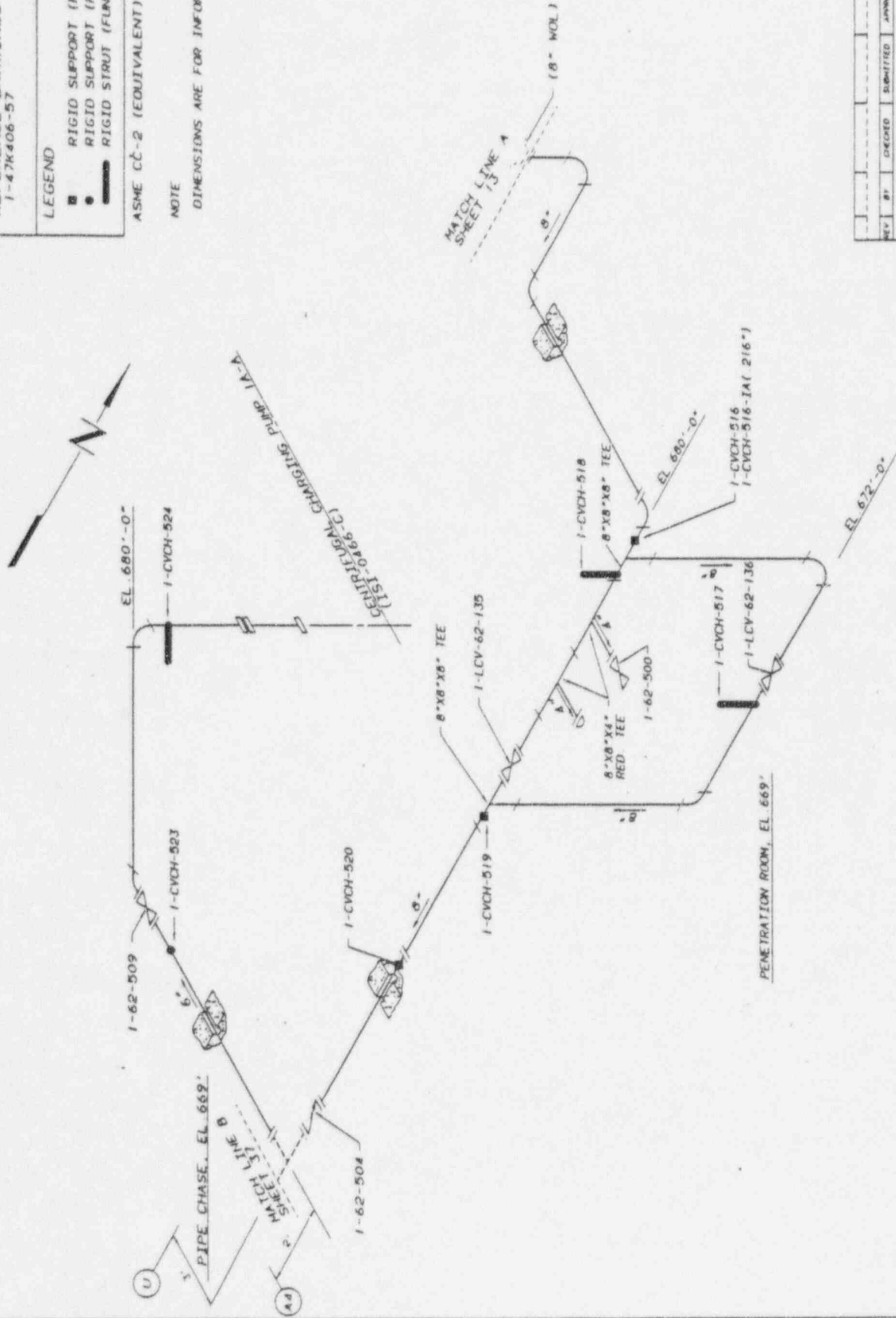
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

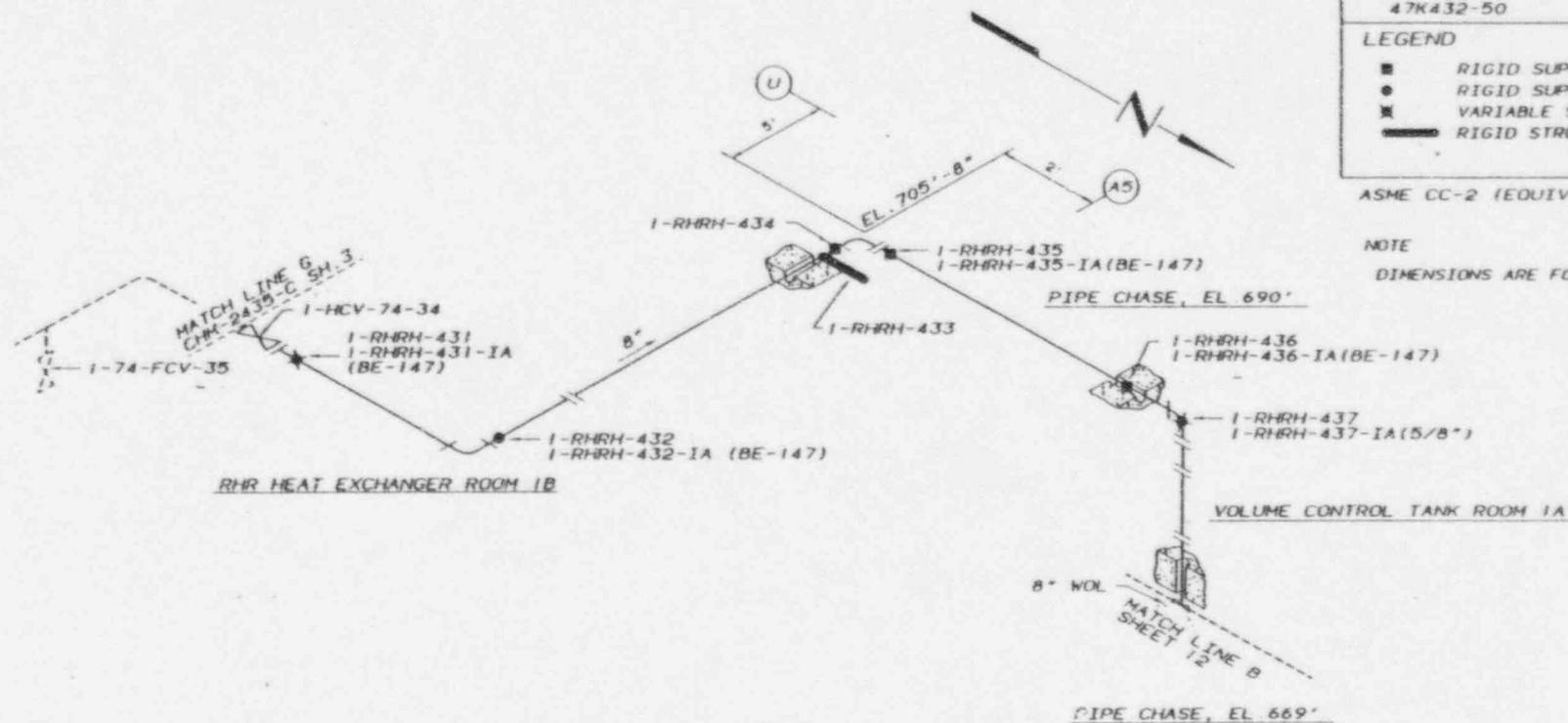
ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	DATE	DESIGNED	SUBMITTED	APPROVED	DATE
1						
SEQUOYAH NUCLEAR PLANT						
UNIT 1						
HIGH PRESSURE SAFETY INJECTION SYSTEM						
SUPPORT LOCATIONS (CVC/SI)						
DESIGNED	BY	DATE	12-12-83	SCALE	NOT TO SCALE	
CHECKED	BY	DATE	12-12-83	SCALE	NOT TO SCALE	
APPROVED	BY	DATE	12-12-83	SCALE	NOT TO SCALE	
SUBMITTED						151-0448-C-35
						00



REFERENCE DRAWINGS
47K432-50

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

NOTE

DIMENSIONS ARE FOR INFORMATION ONLY

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (RHR)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED BY	DATE	CAD	MAINTAINED DRAWING	
SUBMITTED BY	DATE	12-16-85	SCALE	NOT TO SCALE	
ISI-0448-C-36					
100					

REFERENCE DRAWINGS
1-47K405-57

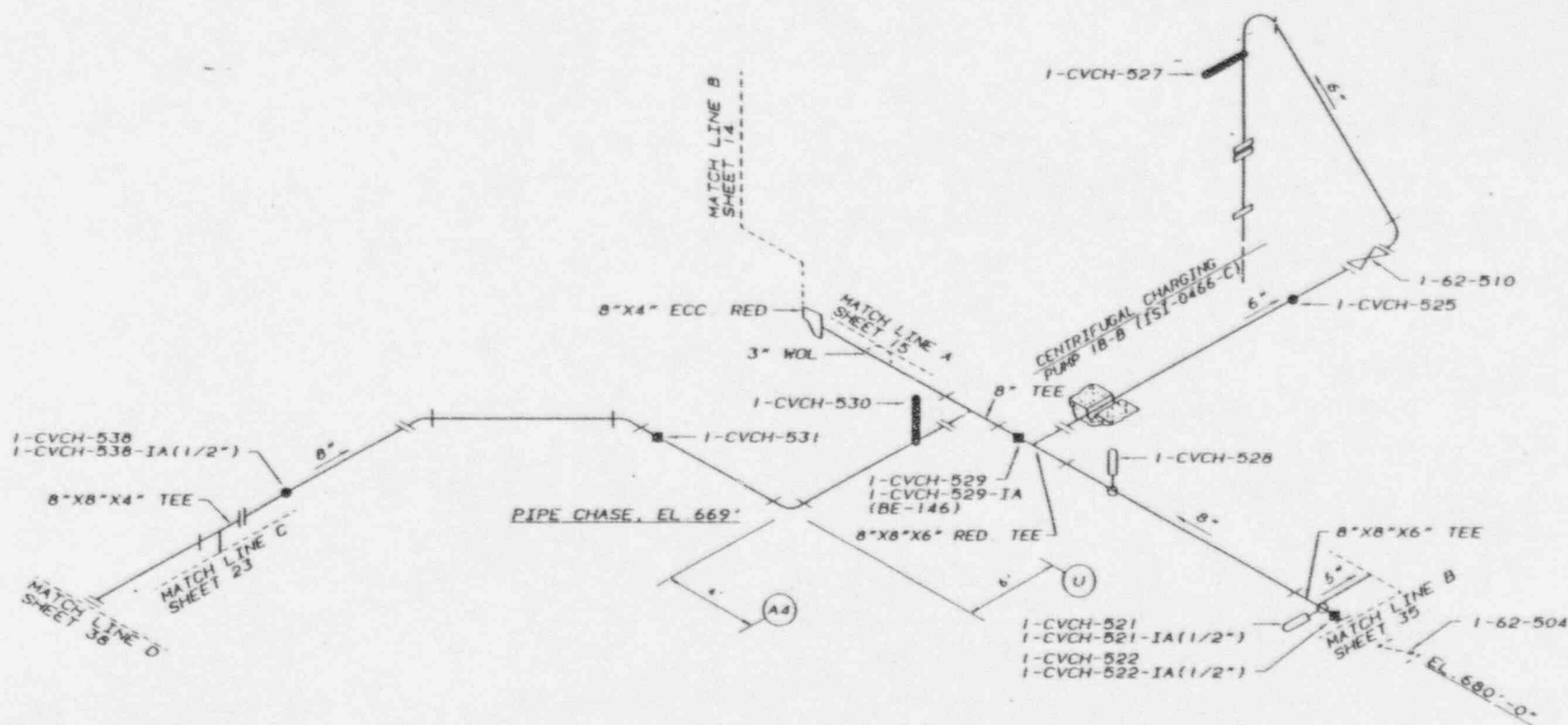
LEGEND

- RIGID SUPPORT (FUNCTION A)
- ⊕ RIGID SUPPORT (FUNCTION B)
- ▬ RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)
- HYDRAULIC SNUBBER (FUNCTION D)

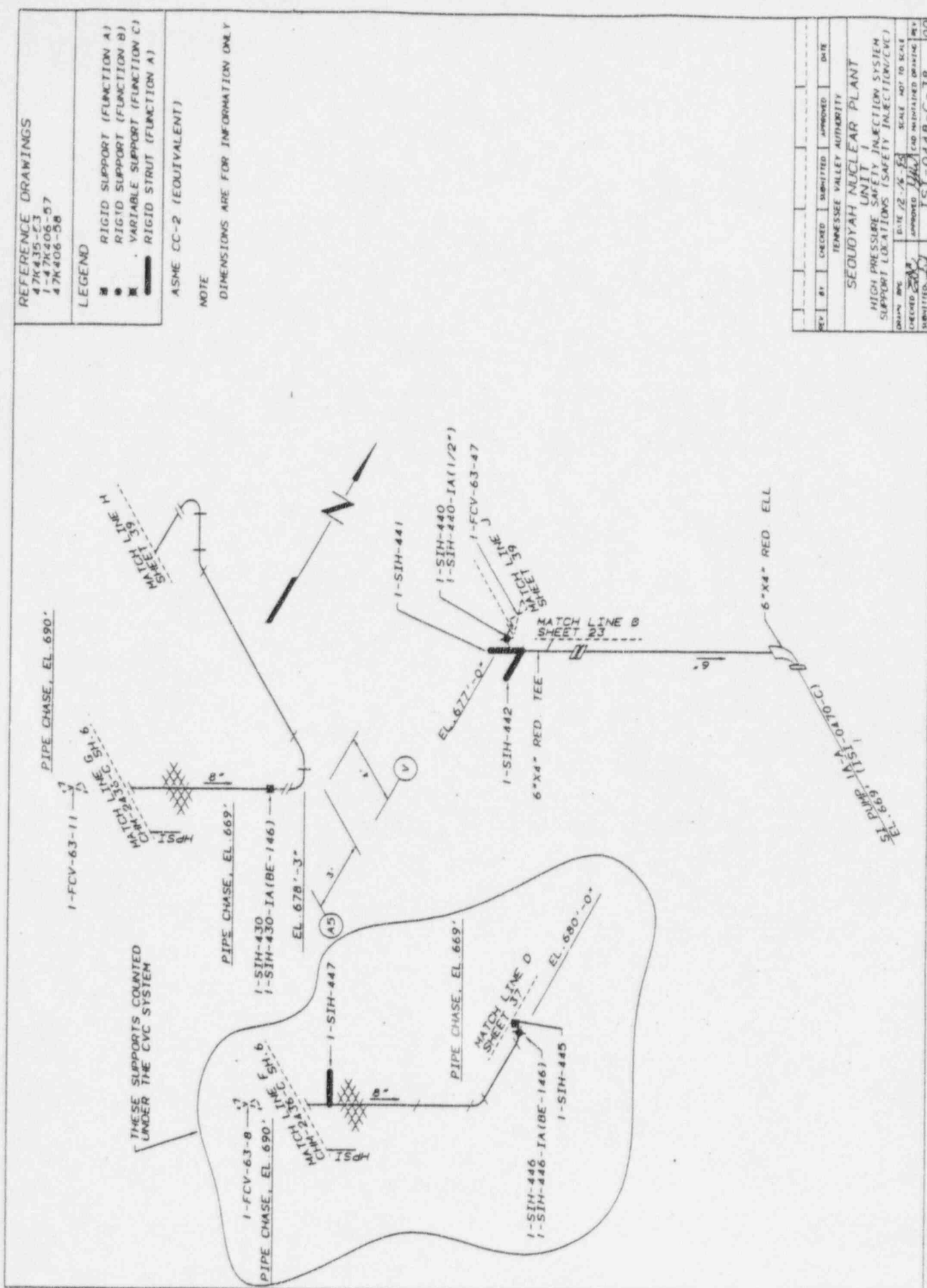
ASME CC-2 (EQUIVALENT)

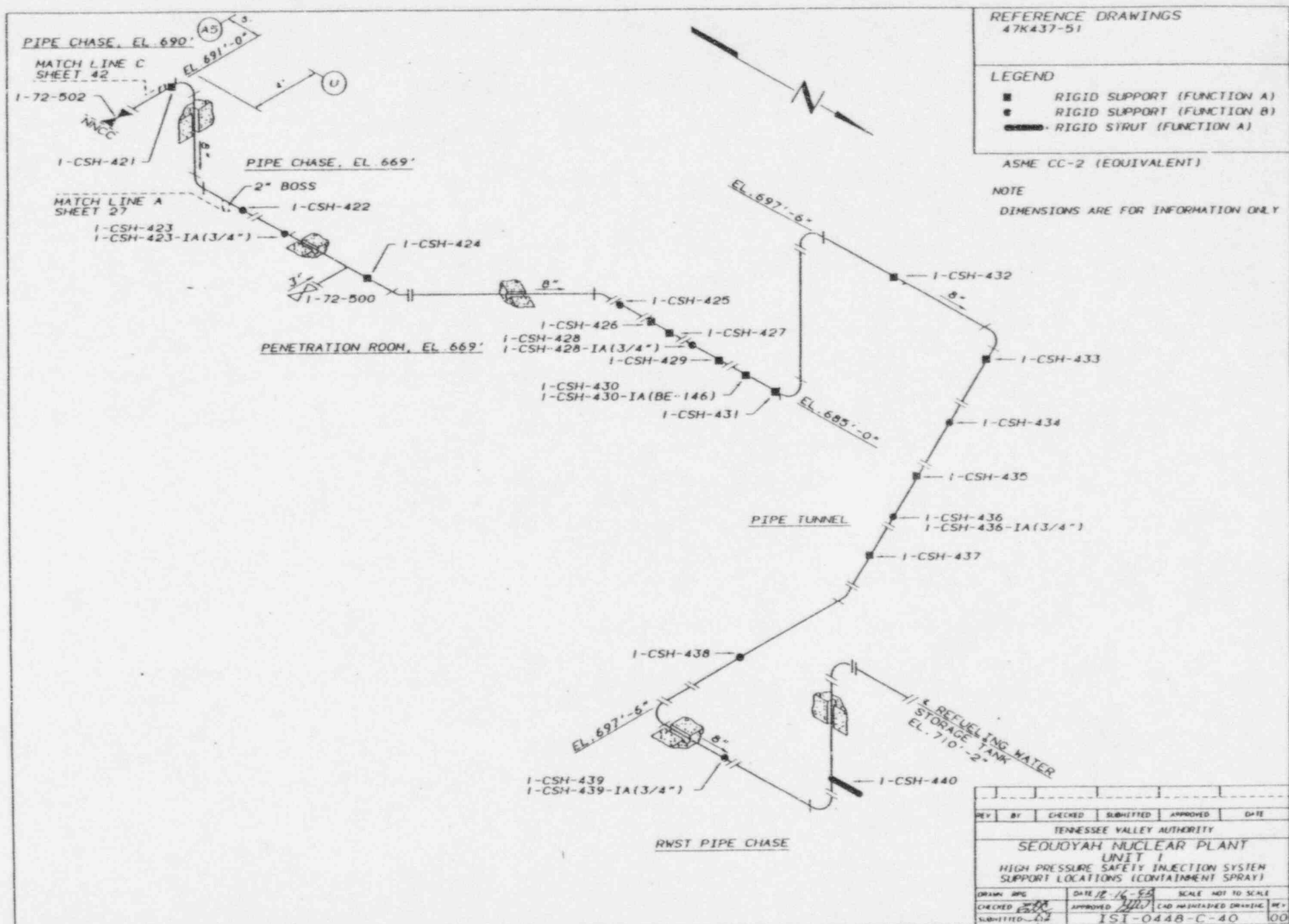
NOTE

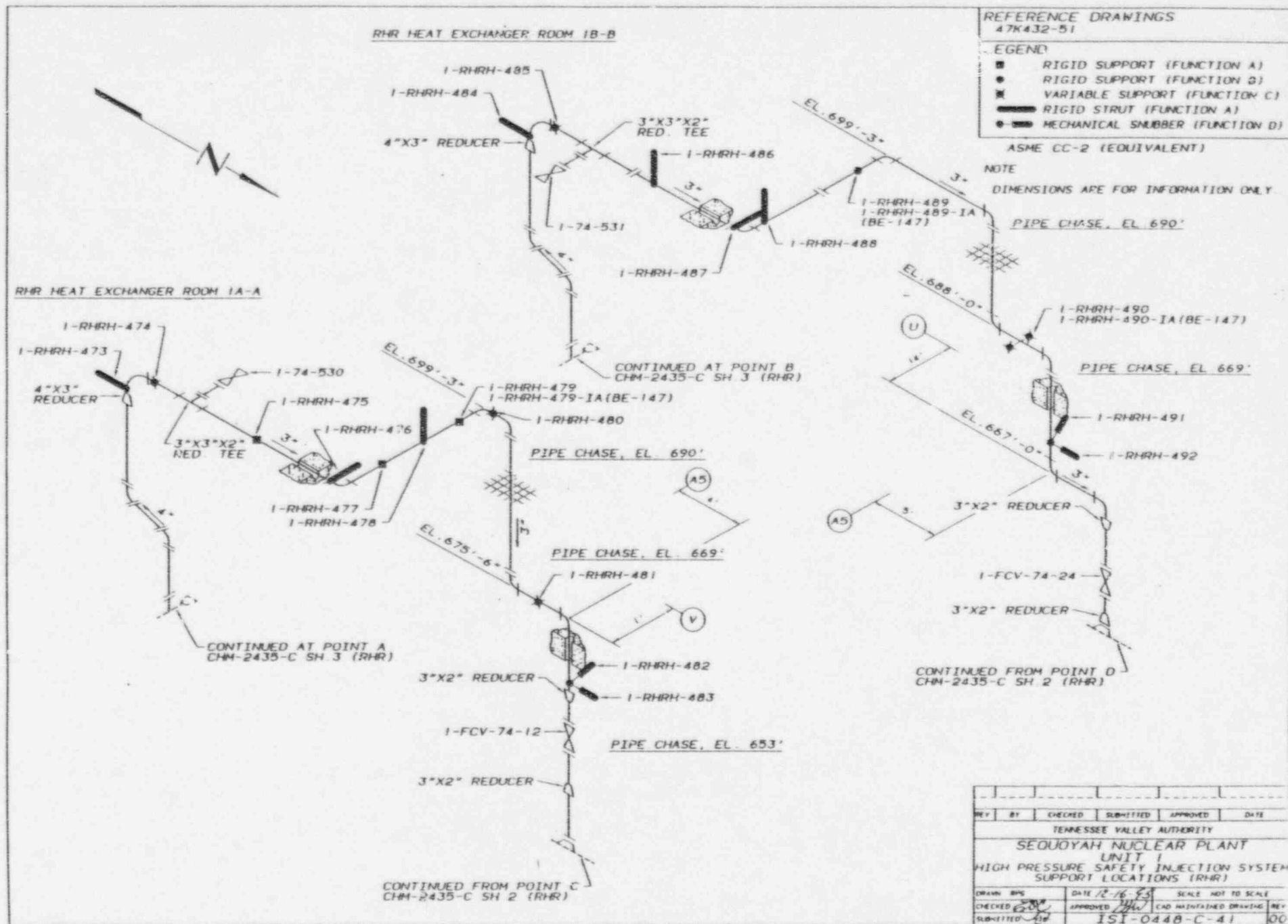
DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN: RJC	DATE: 12-1-83	SCALE: NOT TO SCALE			
CHECKED: [Signature]	APPROVED: [Signature]	CAD MAINTAINED DRAWING			
SUBMITTED: [Signature]	ISI-0448-C-37		100		







REFERENCE DRAWINGS

1-478406-520-06
1-CVCS-187
474053-18
474053-144

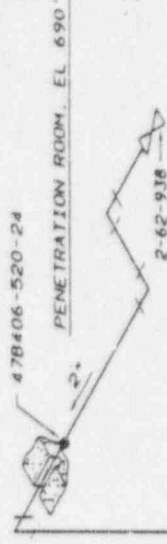
LEGEND

- RIGID SUPPORT (FUNCTION B)

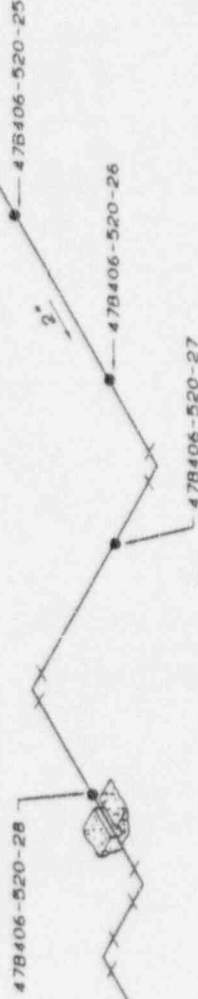
ASME CC-2 (EQUIVALENT)

NOTE

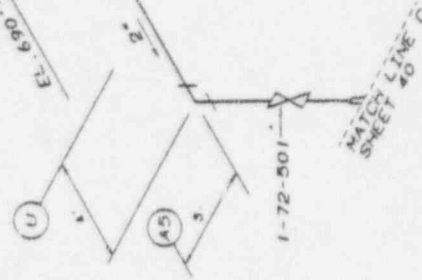
DIMENSIONS ARE FOR INFORMATION ONLY



VOLUME CONTROL TANK ROOM



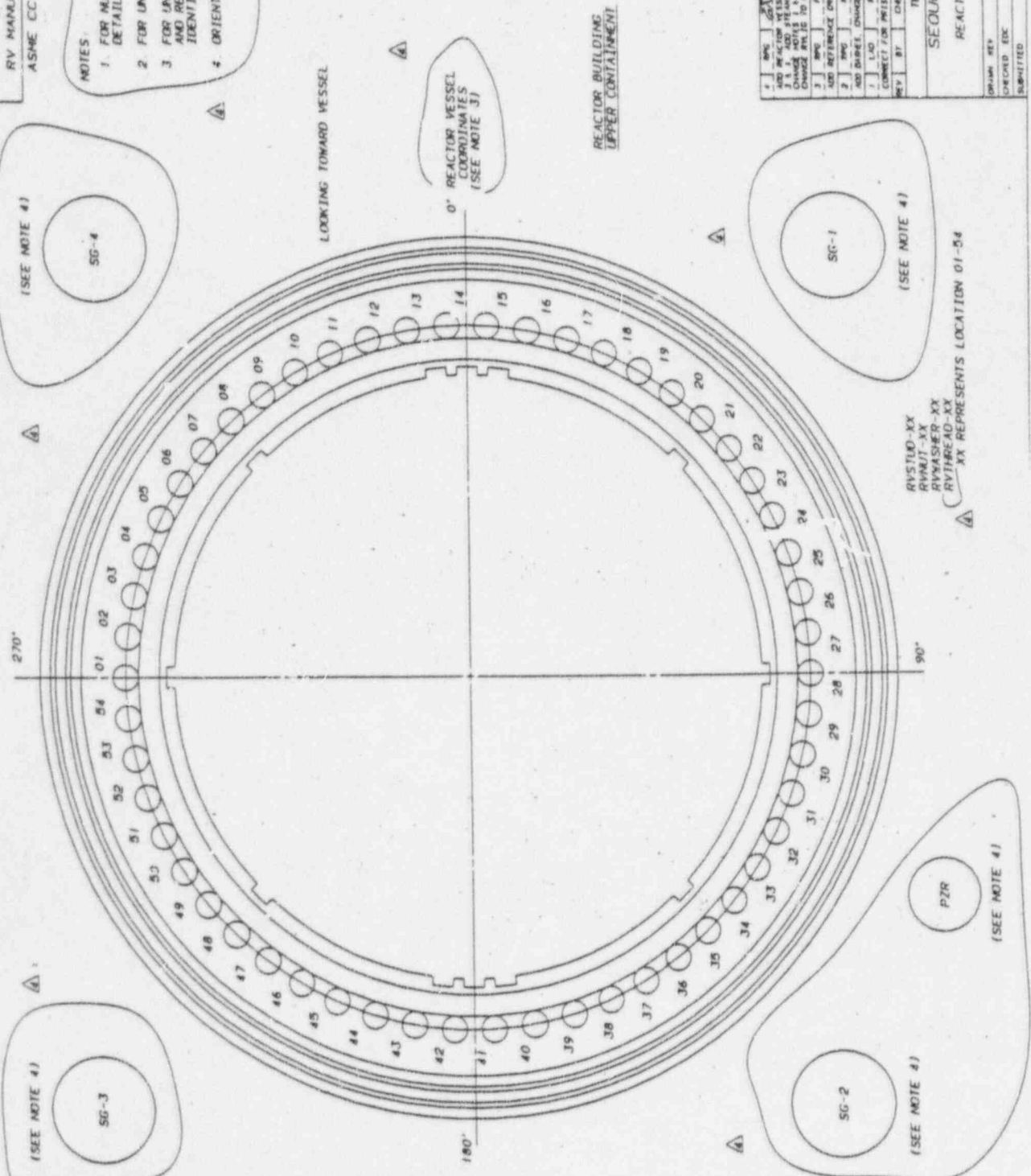
PIPE CHASE, EL. 690'



NO.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CONTAINMENT SPRAY)					
DESIGN NO.	DATE	BY	CHECKED	SCALE	NOT TO SCALE
478406-520-28	12-8-75	WJC	WJC	1/4" = 1'-0"	
SUBMITTED	BY	DATE	BY	DATE	BY
478406-520-28	WJC	12-8-75	WJC	12-8-75	WJC
ISI-0448-C-42					
100					

REFERENCE DRAWINGS
 CONTRACT NO 68C60-91934
 (N2M-2-3)
 RV MANUAL 30616-1062 (FIG 7.3)
 ASME CC-1 (EQUIVALENT)

- NOTES
1. FOR NUT, WASHER, STUD, AND THREAD DETAILS SEE SHEET 2
 2. FOR UNIT 2 DWG SEE 151-0304-C
 3. FOR UNIT 1 REACTOR VESSEL COORDINATES AND REACTOR BUILDING COORDINATES ARE IDENTICAL
 4. ORIENTATION REFERENCE PURPOSES ONLY



REV	DATE	BY	CHKD	APPD	DATE	SCALE	NOT TO SCALE
1	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
2	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
3	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
4	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
5	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
6	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
7	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
8	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
9	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
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36	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
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46	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
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53	10-28-80	WV	WV	WV	10-28-80	1:1	1:1
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REACTOR BUILDING
 UPPER CONTAINMENT

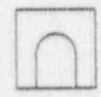
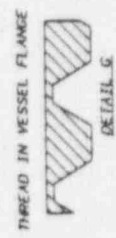
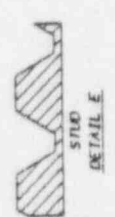
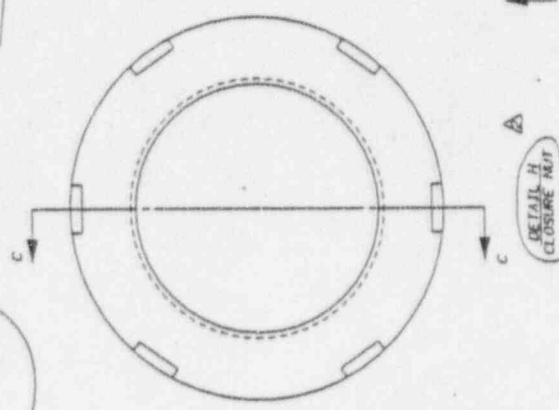
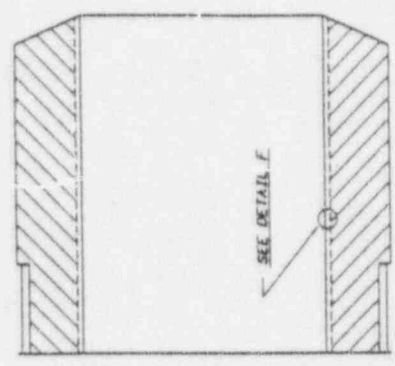
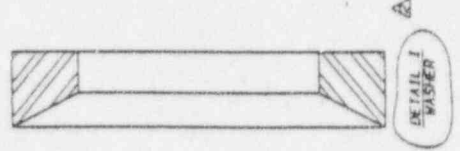
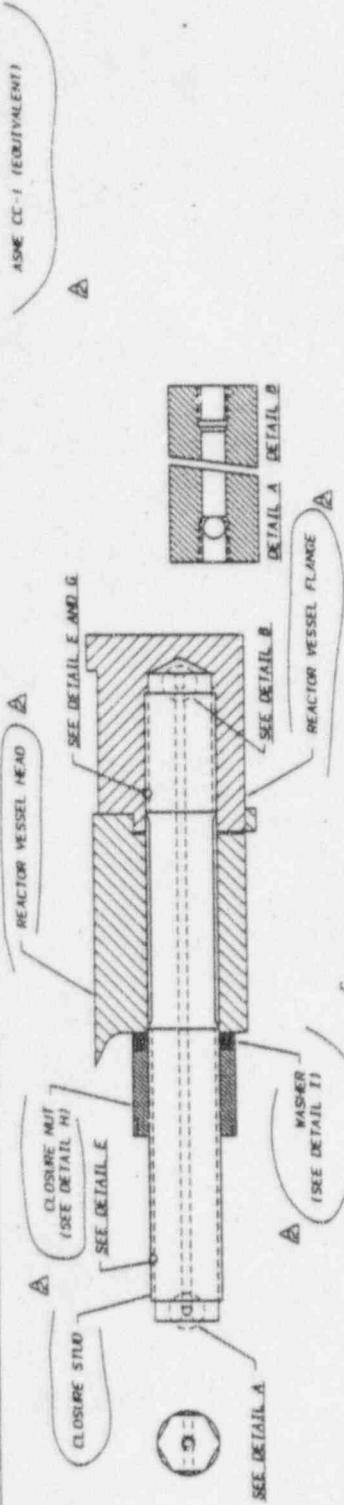
0° REACTOR VESSEL
 COORDINATES
 (SEE NOTE 3)

LOOKING TOWARD VESSEL

REACTOR VESSEL STUD LOCATIONS
 AND DETAILS

SCALE NOT TO SCALE

CHM-2341-C-01



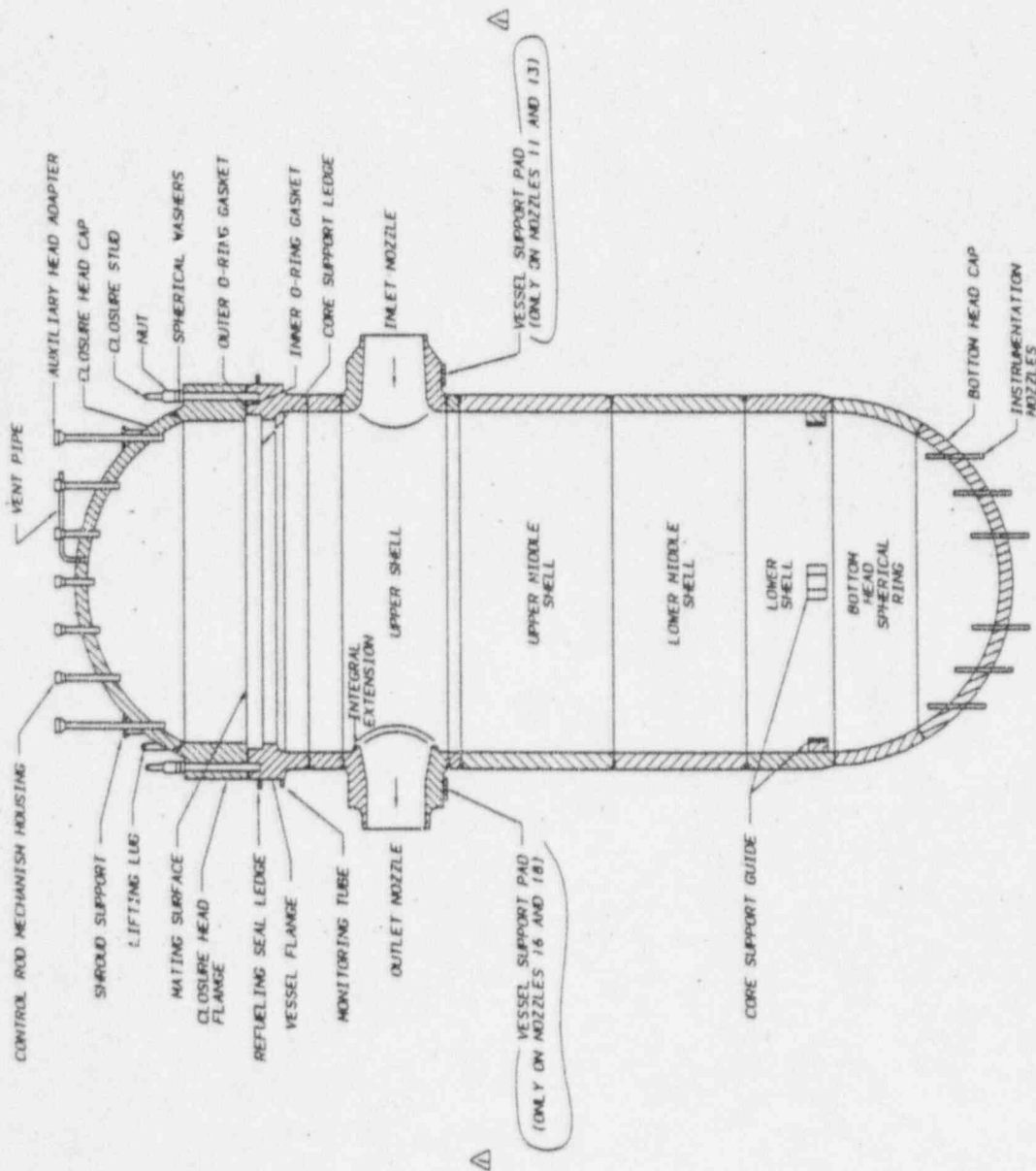
VIEW D-D

FOR NOTES SEE SH. 1

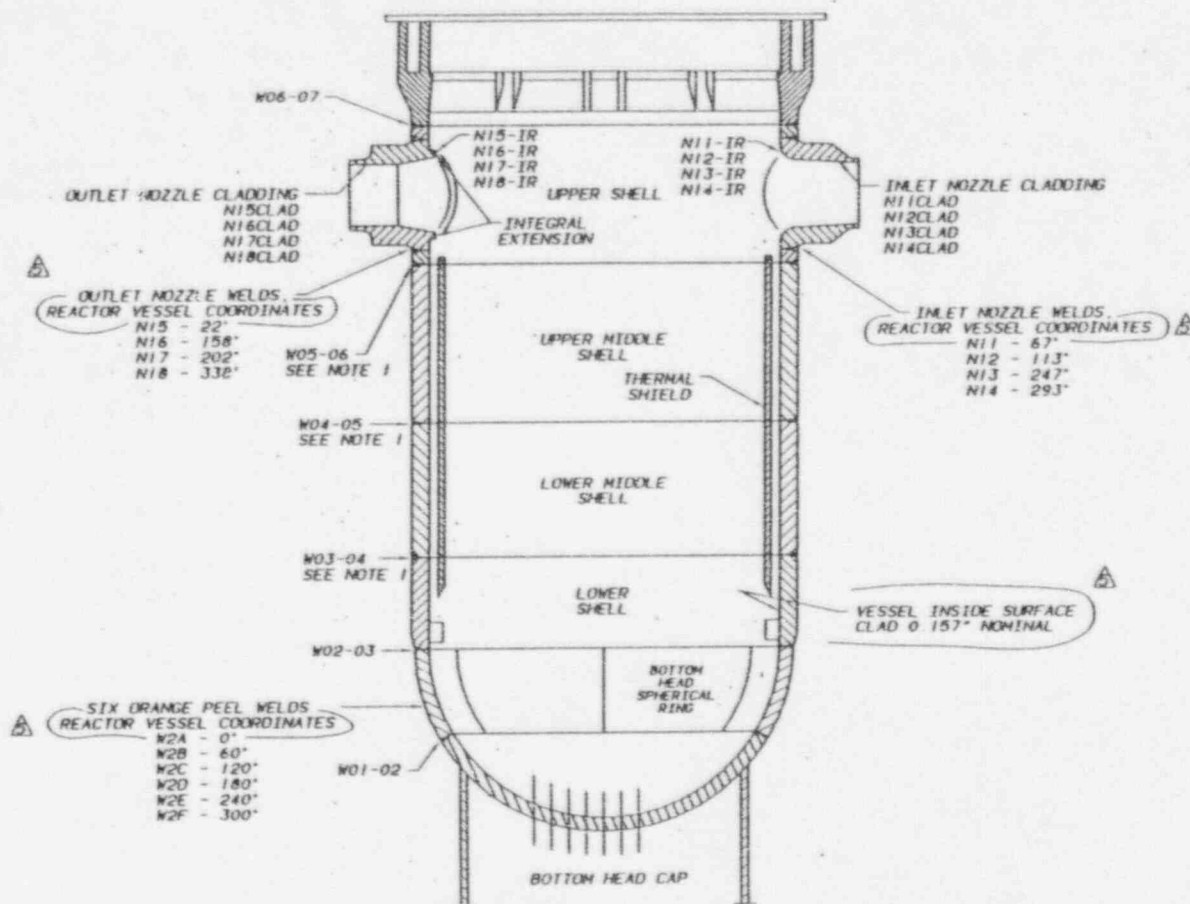
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99	12-13-55					
100	12-13-55					

REFERENCE DRAWINGS
 WESTINGHOUSE REACTOR PRESSURE VESSEL MANUAL
 CONTRACT NO. 68CB0-91934 (NCR-2-3)
 FIGURE 1-1

ASME CC-1 (EQUIVALENT)



DESIGNED BY	DATE	12-12-58	SCALE	NOT TO SCALE
CHECKED BY	DATE		DATE	
APPROVED BY	DATE		DATE	
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 1				
173" P. N. R. VESSEL				
GENERAL ARRANGEMENT				
DRAWN BY	DATE	5-15-61	SCALE	NOT TO SCALE
CHECKED BY	DATE		DATE	
APPROVED BY	DATE		DATE	
CHM-2343-C-01				



REFERENCE DRAWINGS

CHN-2360-A OUTLET NOZZLE
CHN-2361-A INLET NOZZLE

CONTRACT NO. 68C60-91934

(N2M-2-3)

FIG. 7-25

DWG NO. 30616-1050 (FIG 7 18)

MATERIAL SPECIFICATIONS

THE VESSEL SHELL SECTIONS ARE MACHINED FORGINGS FABRICATED OF A-508, CLASS 2, MANGANESE-MOLYBDENUM STEEL AND ARE CLAD WITH WELD DEPOSITED AUSTENITIC STAINLESS STEEL.

THE VESSEL FLANGE SECTION IS FABRICATED OF A-508, CLASS 2, MANGANESE-MOLYBDENUM STEEL AND IS CLAD INTERNALLY AND ON THE GASKET FACE WITH WELD DEPOSITED AUSTENITIC STAINLESS STEEL.

THE LOWER-HEAD SECTIONS ARE FABRICATED OF A-533, GR B, CLASS 1, MANGANESE-MOLYBDENUM STEEL, AND ARE CLAD WITH WELD DEPOSITED AUSTENITIC STAINLESS STEEL.

THE NOZZLE FORGINGS ARE FABRICATED OF A-508, CLASS 2, MANGANESE-MOLYBDENUM STEEL AND ARE CLAD WITH WELD DEPOSITED AUSTENITIC STAINLESS STEEL.

EACH NOZZLE SAFE END WELD IS A STAINLESS STEEL TYPE 304 WELD BUILD UP (BUTTERING)

ASME CC-1 (EQUIVALENT)

NOTES

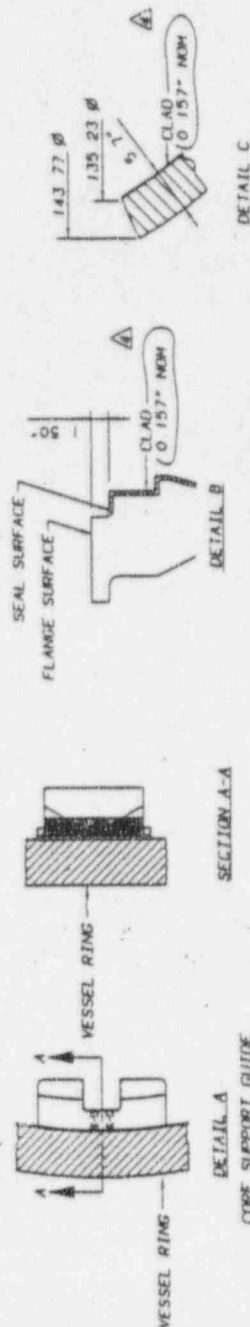
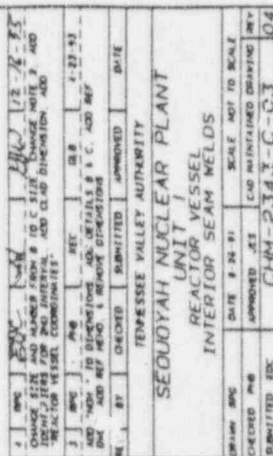
1 W03-04, W04-05, & W05-06 ARE BELTLINE REGION WELDS

2 FOR UNIT 2 DWG SEE ISI-0298-C

1	WPC	EDC	GLB	12-18-85
ADD REACTOR VESSEL COORDINATES NOTE PER UNIT 14-20 CHANGE DWG NO 1 SIZE FROM B TO C				
2	WPC	PHB	EDC	GLB
ADD REF DWGS FOR INLET AND OUTLET NOZZLES				
3	PHB	WPC	GLB	12-18-85
ADD NOZZLE CLADDING NUMBERS				
4	WPC	PHB	EDC	GLB
CHANGE SHIT 1 TO SHIT 2 ADD SHIT 162 & ADD INNER RADIUS IDS				
5	WPC	WPC	GLB	3-2-88
ADD INTEGRAL EXTENSION & MAKE CAD MAKE UNIT SPECIFIC				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 1				
REACTOR VESSEL				
SEAM WELDS				
DRAWN	WPC	DATE	4-10-73	SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED				CHN-2343-C-02 05

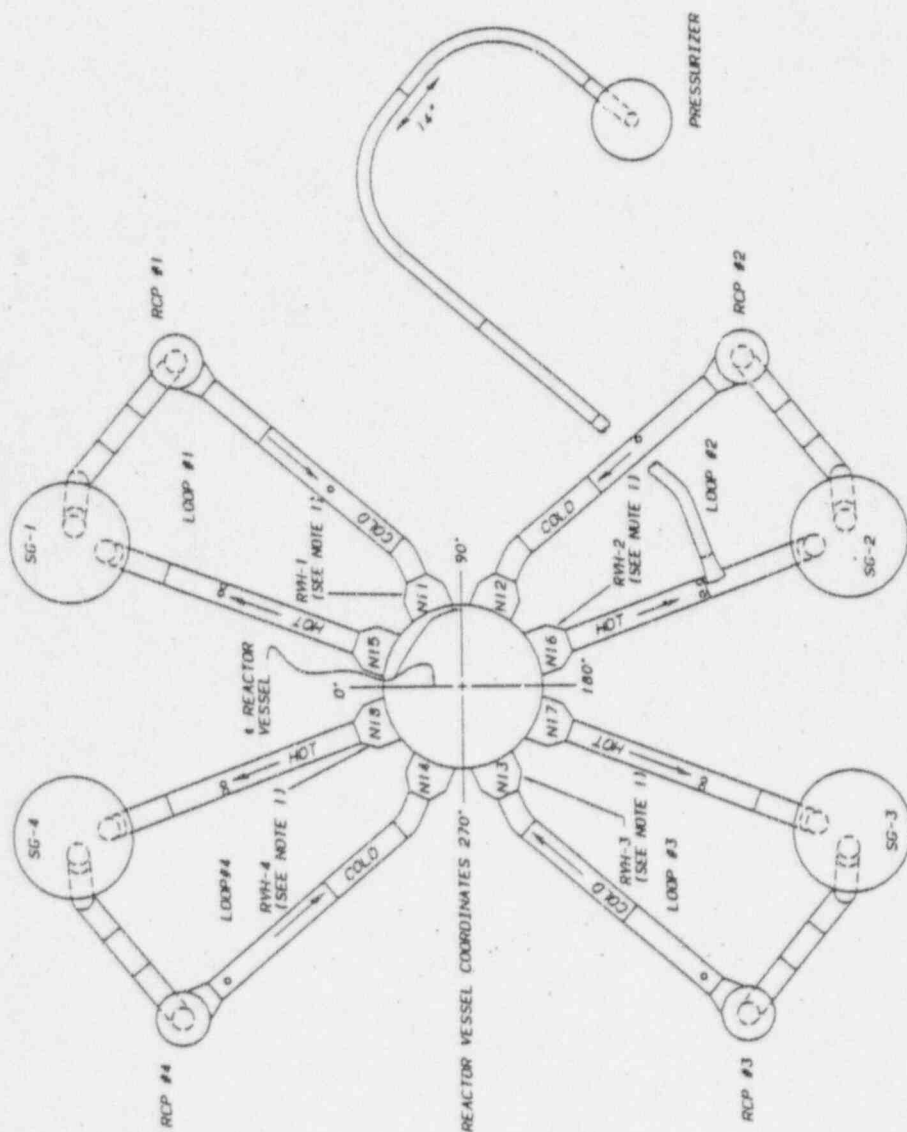
1956 CC-1 (EQUIVALENT)

1. WELD LOCATIONS DIMENSIONS ARE TO WELD &
2. REACTOR VESSEL NOZZLE TO SAFE END TO PIPE WELD ID'S ARE SHOWN ON RC MAIN LOOP DNG CH4-21313. THESE ARE CLASSIFIED AS ASME SECTION XI EXAM CATEGORY B-F. PIPE WELDS 1, RC-01 IN THE EXAMINATION OF THESE WELDS IS INCLUDED IN THE EXAMINATION OF THE NOZZLE SAFE END WELD
3. REACTOR VESSEL NOZZLE TO SAFE END WELD IS SHOWN ON THIS DNG ARE ASME SECTION XI EXAM CATEGORY B-F. DISSIMILAR METAL WELDS 1, RC-01-SE1

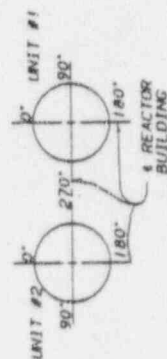


48N420
ASME CC-1 (EQUIVALENT)

1. SUPPORT CLASSIFIED AS A RIGID SUPPORT
SEE DRAWING 48N420 FOR CONFIGURATION



REACTOR BUILDING
LOWER CONTAINMENT



NO.	BY	CHECKED	SUBMITTED	APPROVED	DATE
<p> TENNESSEE VALLEY AUTHORITY SECURITY NUCLEAR PLANT UNIT 1 REACTOR VESSEL SUPPORT LOCATIONS </p>					
DESIGN NO.	DATE 12-16-73		SCALE NOT TO SCALE		NO.
RECORDED	APPROVED <i>[Signature]</i>		CAR NOTED/IN DRAWING		NO.
QUANTITY	102		CHN-2143-C-04		00

REFERENCE DRAWINGS
 CONTRACT 68C60-91934 (NON-2-3)
 RV MANUAL 30616-1061 (FIG 7-4)

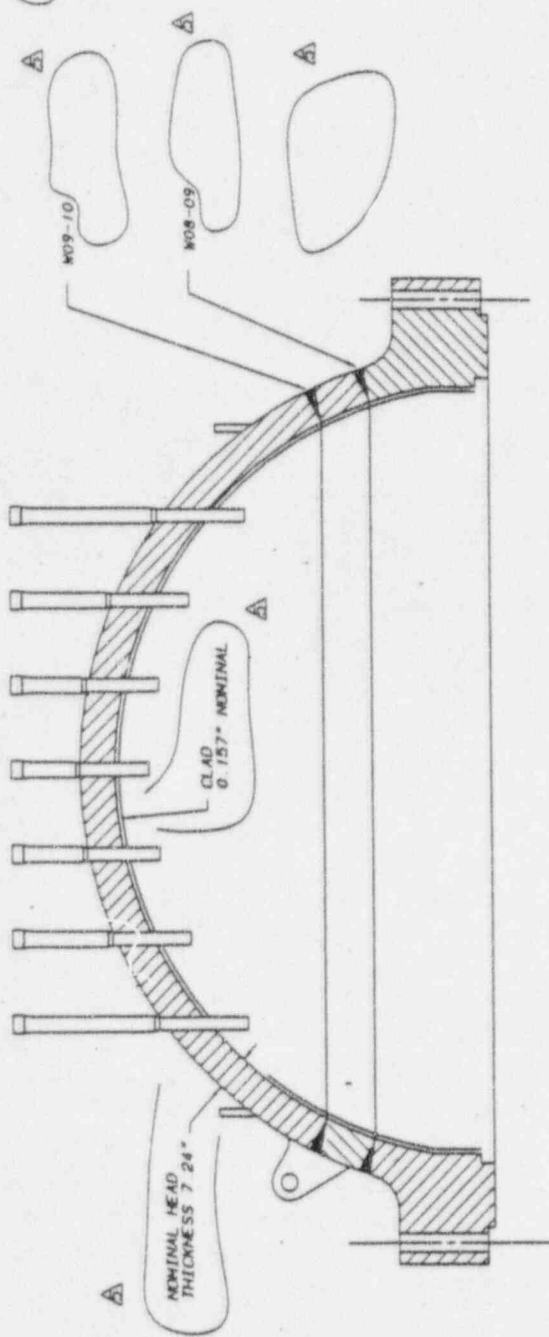
ASME CC-1 (EQUIVALENT)

NOTES

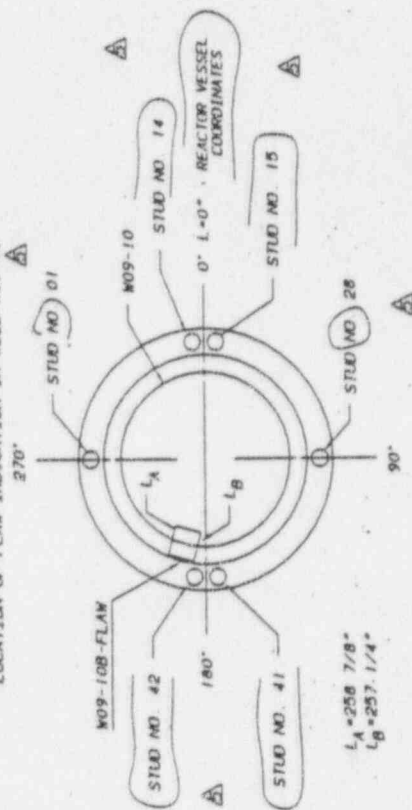
1 FOR UNIT 2 DWG SEE ISI-0301-C

3 SEE ISI-SKT-000-114, 0 AND SMRI PST REPORT FOR HISTORICAL INFORMATION ON FLAW INDICATION

4 WELD LENGTH AND FLAW DIMENSIONS ON MEASURED CLOCK-WISE FROM VESSEL 0° ON OUTSIDE SURFACE AT 1/8" OF WELD



LOCATION OF FLAW INDICATION IN WELD W09-10



1	REV	DATE	BY	CHKD	APPROVED	DATE
2	REV	DATE	BY	CHKD	APPROVED	DATE
3	REV	DATE	BY	CHKD	APPROVED	DATE
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5	REV	DATE	BY	CHKD	APPROVED	DATE
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7	REV	DATE	BY	CHKD	APPROVED	DATE
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TENNESSEE VALLEY AUTHORITY
 SEQUOYAH NUCLEAR PLANT
 UNIT 1

REACTOR VESSEL CLOSURE HEAD

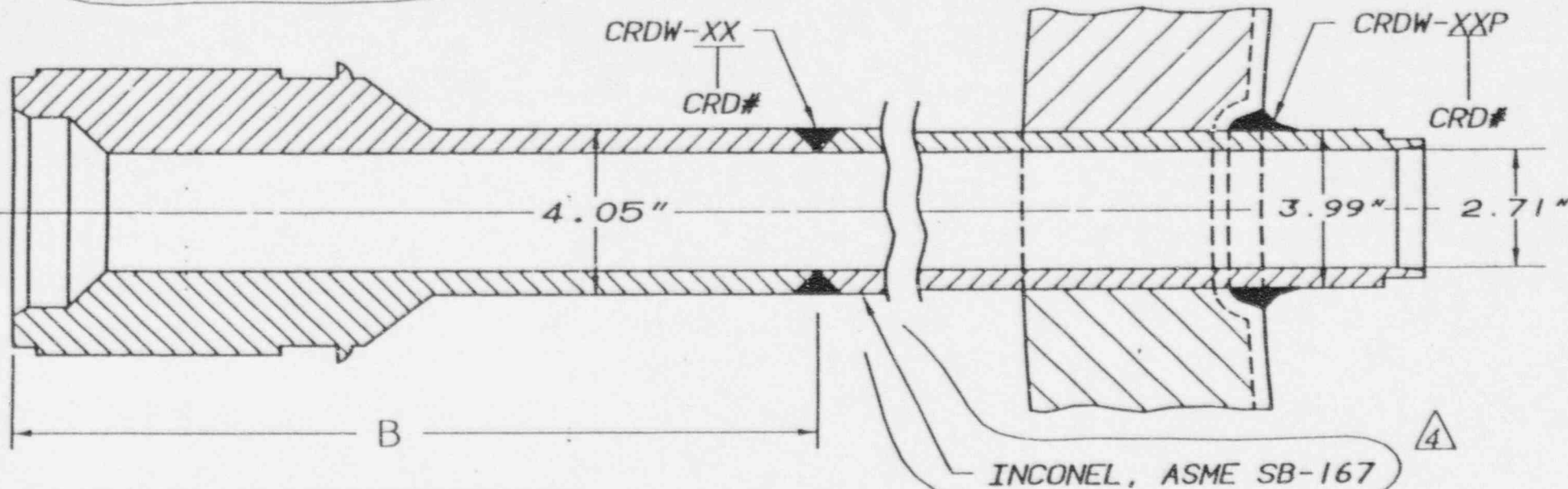
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CHN-2358-C-01

05

MATERIAL SPECIFICATIONS
6-INCH O.D. ADAPTER SA-182, 304SS
4-INCH O.D. BODY SB-167 INCONEL

REFERENCE DRAWINGS
RV MANUAL 30616-1041 (FIG. 7.10)
ASME CC-1 (EQUIVALENT)



LIST OF CONTROL ROD DRIVE HOUSINGS

C.R.D. NO.	NUMBER	B
01-09	9	9.05
10-13	4	9.57
14-17	4	12.20
18-21	4	13.07
22-29	8	14.02
30-37	8	16.81
38-41	4	19.69
42-49	8	20.67
50-53	4	21.69
54-61	8	23.74
62-65	4	27.17
66-73	8	28.31
74-78	5	31.50

TOTAL: 78

FOR LOCATIONS SEE DRAWINGS:
CHM-2651-C

NOTE:

1. FOR UNIT 2 DWG SEE ISI-0300-A

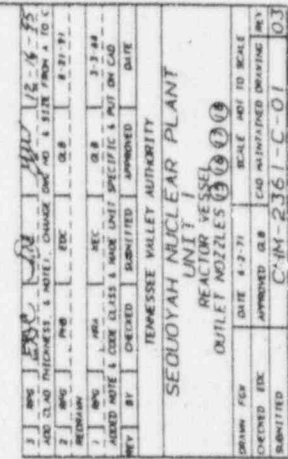
2. DIMENSIONS ARE FOR INFORMATION ONLY

4	RPG	EDC	DES	UW	7/13/93
ADD MATERIAL SPECS. PER FOOT 93-51, AND ADD NOTE 2					
3	RPG	PHB	EDC	GLB	8-19-91
ADD TABLE FROM SH.2, DELETE SH.2					
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
CONTROL ROD DRIVE HOUSING					
DRAWN: RHD		DATE: 6-2-71		SCALE: NTS	
CHECKED: EDC		APPROVED: GLB		CADAM/ISICMP	
SUBMITTED: EDC				SHEET 1 OF 1	
				REV	
CHM-2359-A 04					

NOTES

1 SUPPORT PAD ONLY ON MORTLES 16 AND 18
SEE CIN-214J-C-04 FOR SUPPORT IDS.

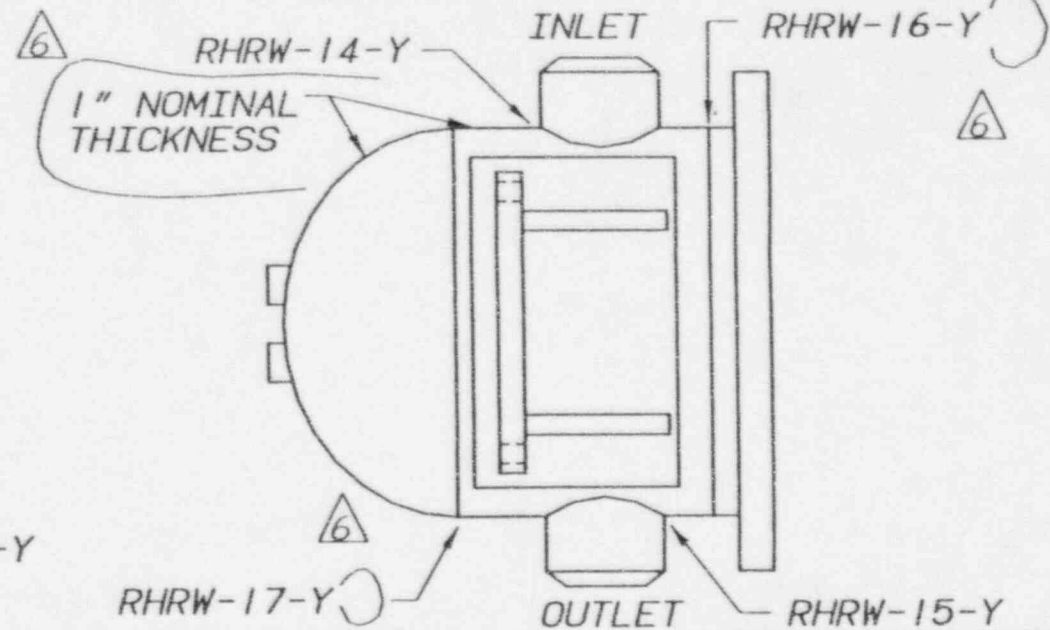
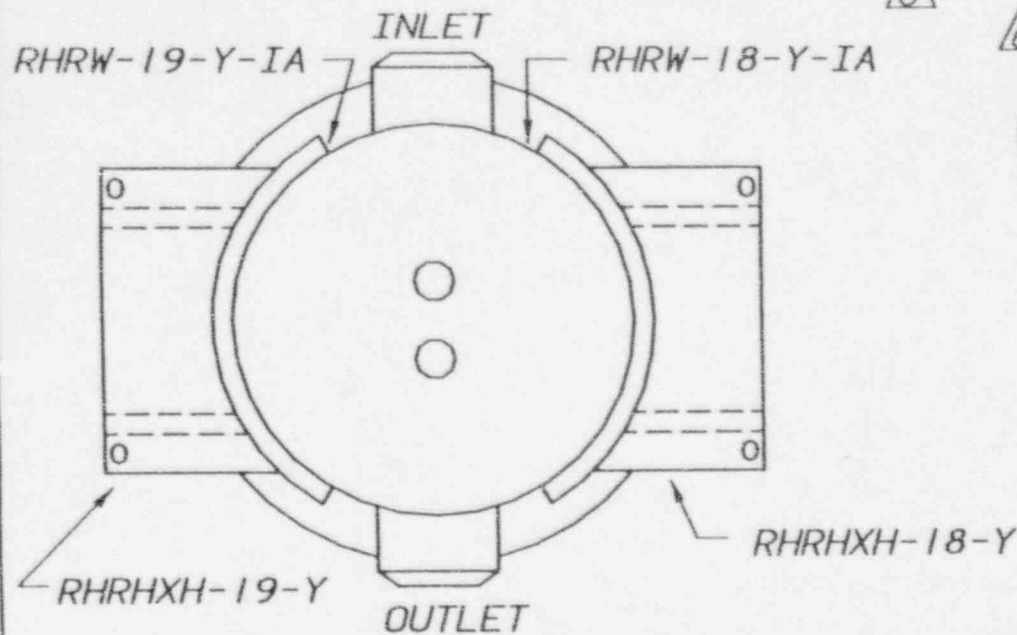
2 FOR UNIT 2 DNG SEE 1-1-0297-C



REFERENCE DRAWINGS

CONTRACT NO. 68C60-91934 (N2M. 15)
AUX. HEAT EXCHANGER MANUAL
DRAWING NO. 15588

ASME CC-2 (EQUIVALENT)



6	RPG	EDC	GLB	YJW	12-16-95
ADD THICKNESS DIMENSION, REMOVE WELD PORTIONS					
5	RPG	KEC	MRA	GLB	8-23-91
ADD REFERENCE DWGS					
4	RPG	KEC	MRA	GLB	1-31-89
ADDED NOTE					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
RESIDUAL HEAT REMOVAL HEAT EXCHANGER					
CHANNEL WELDS AND SUPPORT					
DRAWN: KEV		DATE: 4-19-87		SCALE: NOT TO SCALE	
CHECKED: EDC		APPROVED: GLB		CAD MAINTAINED DRAWING	REV
SUBMITTED: EDC		CHM-2404-A-01			06

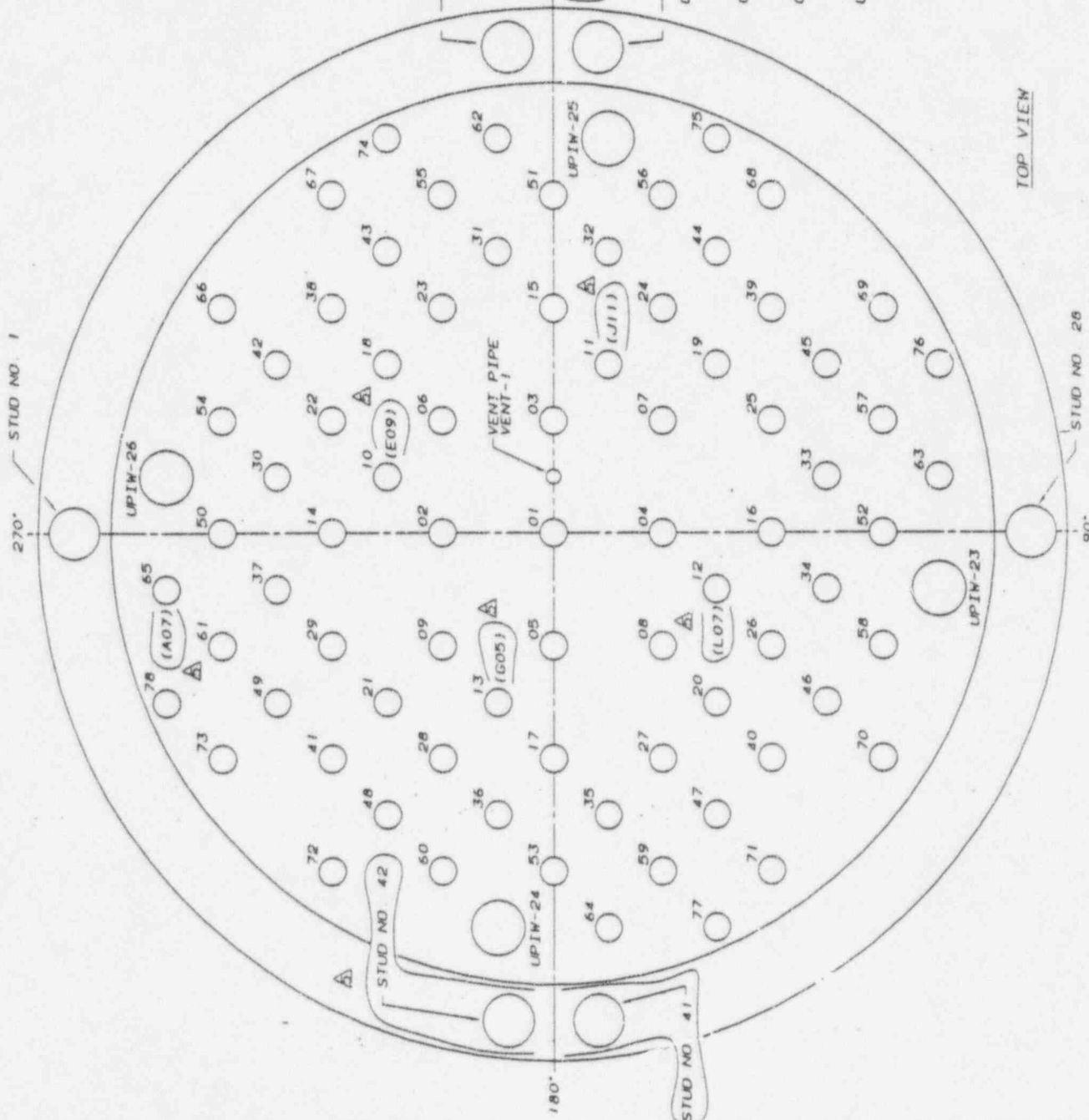
REFERENCE DRAWINGS

RV MANUAL 30616-1061 (FIG 7 4)
WESTINGHOUSE LETTER A27840123022
WESTINGHOUSE DRAWING 686-5506

NOTES:

1. ALL CRDM NUMBERS ARE PRECEDED BY CROW FOR THE WELD NUMBERS
2. FOR PENETRATION DETAILS SEE SHEET 2
3. TO OBTAIN THE PENETRATION NUMBER PRECEDE THE CROW NUMBER WITH CROW AND THEN SUFFIX IT WITH P FOR THE UPPER HEAD INJECTION STAND PIPES TAKE THE WELD NUMBER AND SUFFIX IT WITH P EXAMPLES CROW-55P AND UPIN-25P

ASME CC-1 (EQUIVALENT)



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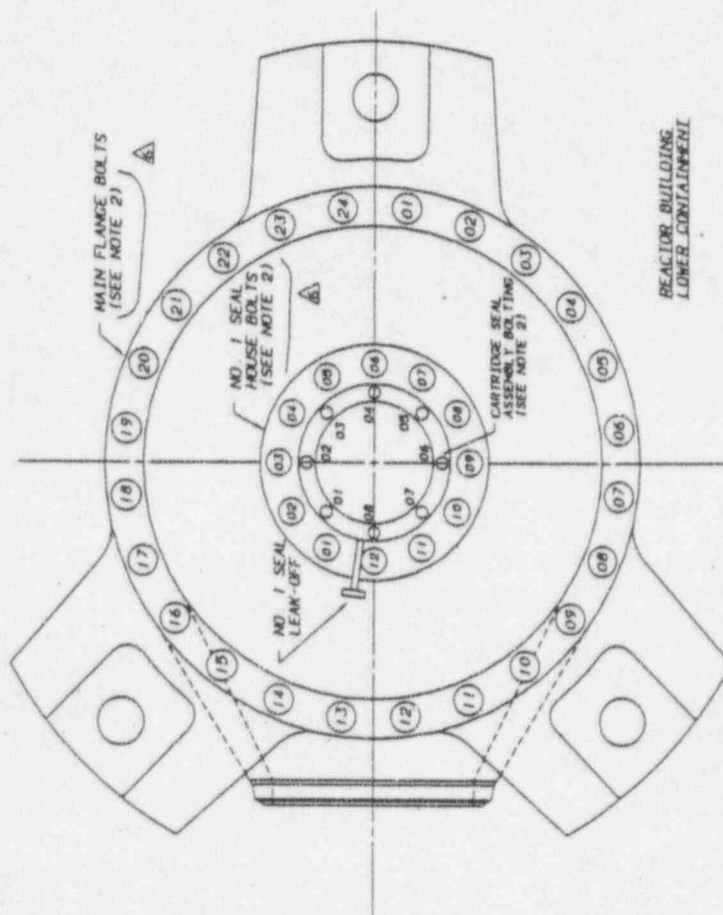
STUD NO. 26

STUD NO. 41

STUD NO. 42

BOLTING IDENTIFIER
 RCPZSBLT-XX
 RCPZSBLT-YY (CARTRIDGE SEAL BOLT)
 RCPZSBLT-WW (CARTRIDGE SEAL BOLT)
 LIGAMENT IDENTIFIER
 RCPZNLIG-XX
 WW REPRESENTS LOCATION 01-08
 XX REPRESENTS LOCATION 01-24
 YY REPRESENTS LOCATION 01-12
 Z REPRESENTS PUMP NO. (1-4)
 ASME CC-1 (EQUIVALENT)

- NOTES:
1. FOR UNIT 2 DWG SEE ISI-0307-C
 2. CARTRIDGE SEAL ASSEMBLY BOLTING IS 1.5 IN. CLASS 1, NUMBER 1 SEAL HOUSE BOLTS ARE 2 IN. MAIN FLANGE BOLTS ARE 4.5 IN.



1	REV	1	DATE	12/15/75	BY	WJL	CHK	WJL
2	REV	2	DATE	6-24-82	BY	WJL	CHK	WJL
3	REV	3	DATE	6-24-82	BY	WJL	CHK	WJL
4	REV	4	DATE	6-24-82	BY	WJL	CHK	WJL
5	REV	5	DATE	6-24-82	BY	WJL	CHK	WJL
6	REV	6	DATE	6-24-82	BY	WJL	CHK	WJL
7	REV	7	DATE	6-24-82	BY	WJL	CHK	WJL
8	REV	8	DATE	6-24-82	BY	WJL	CHK	WJL
9	REV	9	DATE	6-24-82	BY	WJL	CHK	WJL
10	REV	10	DATE	6-24-82	BY	WJL	CHK	WJL
11	REV	11	DATE	6-24-82	BY	WJL	CHK	WJL
12	REV	12	DATE	6-24-82	BY	WJL	CHK	WJL
13	REV	13	DATE	6-24-82	BY	WJL	CHK	WJL
14	REV	14	DATE	6-24-82	BY	WJL	CHK	WJL
15	REV	15	DATE	6-24-82	BY	WJL	CHK	WJL
16	REV	16	DATE	6-24-82	BY	WJL	CHK	WJL
17	REV	17	DATE	6-24-82	BY	WJL	CHK	WJL
18	REV	18	DATE	6-24-82	BY	WJL	CHK	WJL
19	REV	19	DATE	6-24-82	BY	WJL	CHK	WJL
20	REV	20	DATE	6-24-82	BY	WJL	CHK	WJL
21	REV	21	DATE	6-24-82	BY	WJL	CHK	WJL
22	REV	22	DATE	6-24-82	BY	WJL	CHK	WJL
23	REV	23	DATE	6-24-82	BY	WJL	CHK	WJL
24	REV	24	DATE	6-24-82	BY	WJL	CHK	WJL
25	REV	25	DATE	6-24-82	BY	WJL	CHK	WJL
26	REV	26	DATE	6-24-82	BY	WJL	CHK	WJL
27	REV	27	DATE	6-24-82	BY	WJL	CHK	WJL
28	REV	28	DATE	6-24-82	BY	WJL	CHK	WJL
29	REV	29	DATE	6-24-82	BY	WJL	CHK	WJL
30	REV	30	DATE	6-24-82	BY	WJL	CHK	WJL
31	REV	31	DATE	6-24-82	BY	WJL	CHK	WJL
32	REV	32	DATE	6-24-82	BY	WJL	CHK	WJL
33	REV	33	DATE	6-24-82	BY	WJL	CHK	WJL
34	REV	34	DATE	6-24-82	BY	WJL	CHK	WJL
35	REV	35	DATE	6-24-82	BY	WJL	CHK	WJL
36	REV	36	DATE	6-24-82	BY	WJL	CHK	WJL
37	REV	37	DATE	6-24-82	BY	WJL	CHK	WJL
38	REV	38	DATE	6-24-82	BY	WJL	CHK	WJL
39	REV	39	DATE	6-24-82	BY	WJL	CHK	WJL
40	REV	40	DATE	6-24-82	BY	WJL	CHK	WJL
41	REV	41	DATE	6-24-82	BY	WJL	CHK	WJL
42	REV	42	DATE	6-24-82	BY	WJL	CHK	WJL
43	REV	43	DATE	6-24-82	BY	WJL	CHK	WJL
44	REV	44	DATE	6-24-82	BY	WJL	CHK	WJL
45	REV	45	DATE	6-24-82	BY	WJL	CHK	WJL
46	REV	46	DATE	6-24-82	BY	WJL	CHK	WJL
47	REV	47	DATE	6-24-82	BY	WJL	CHK	WJL
48	REV	48	DATE	6-24-82	BY	WJL	CHK	WJL
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65	REV	65	DATE	6-24-82	BY	WJL	CHK	WJL
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68	REV	68	DATE	6-24-82	BY	WJL	CHK	WJL
69	REV	69	DATE	6-24-82	BY	WJL	CHK	WJL
70	REV	70	DATE	6-24-82	BY	WJL	CHK	WJL
71	REV	71	DATE	6-24-82	BY	WJL	CHK	WJL
72	REV	72	DATE	6-24-82	BY	WJL	CHK	WJL
73	REV	73	DATE	6-24-82	BY	WJL	CHK	WJL
74	REV	74	DATE	6-24-82	BY	WJL	CHK	WJL
75	REV	75	DATE	6-24-82	BY	WJL	CHK	WJL
76	REV	76	DATE	6-24-82	BY	WJL	CHK	WJL
77	REV	77	DATE	6-24-82	BY	WJL	CHK	WJL
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89	REV	89	DATE	6-24-82	BY	WJL	CHK	WJL
90	REV	90	DATE	6-24-82	BY	WJL	CHK	WJL
91	REV	91	DATE	6-24-82	BY	WJL	CHK	WJL
92	REV	92	DATE	6-24-82	BY	WJL	CHK	WJL
93	REV	93	DATE	6-24-82	BY	WJL	CHK	WJL
94	REV	94	DATE	6-24-82	BY	WJL	CHK	WJL
95	REV	95	DATE	6-24-82	BY	WJL	CHK	WJL
96	REV	96	DATE	6-24-82	BY	WJL	CHK	WJL
97	REV	97	DATE	6-24-82	BY	WJL	CHK	WJL
98	REV	98	DATE	6-24-82	BY	WJL	CHK	WJL
99	REV	99	DATE	6-24-82	BY	WJL	CHK	WJL
100	REV	100	DATE	6-24-82	BY	WJL	CHK	WJL

SEJOVIAH NUCLEAR PLANT
 UNIT 1

REACTOR COOLANT PUMP
 MAIN FLANGE AND LOWER SEAL HOUSE BOLT PATTERN
 DRAWN BY: DATE: 10-20-80 SCALE: NOT TO SCALE
 CHECKED BY: APPROVED BY: (SEE INITIALS) DRAWING NO.:
 SUBMITTED: CHM-2675-C-01 06

REFERENCE DRAWINGS

1-RC-25N
CONTRACT NO. 68C60-91934
DWG NO. 1977 (FIG. 7 27 & 7 28)
UNIT 1 REACTOR VESSEL MANUAL
3021454, 3021452, 8245C18

MATERIAL SPECIFICATIONS

THE ADAPTERS CONSIST OF SA-182 304SS
UPPER PORTION AND SB-166 LOWER PORTION

NOTES

1. THESE DISSIMILAR METAL WELDS ARE
CLASSIFIED AS CATEGORY B-J

2. CAPS INSTALLED BY WESTINGHOUSE PER
NP1534-01 DURING CYCLE 4 OUTAGE

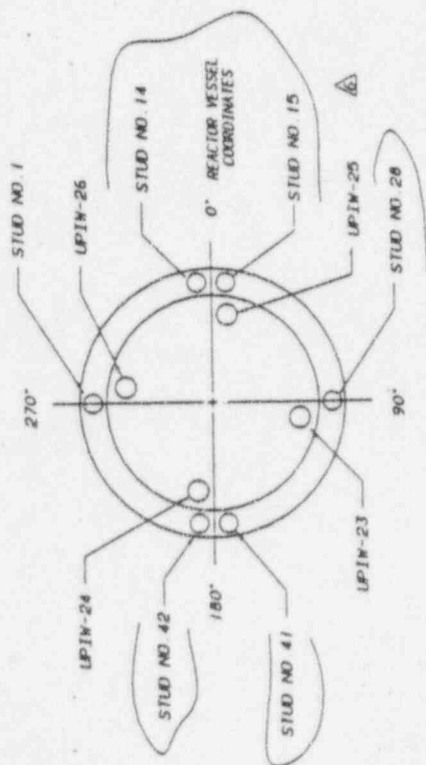
CAP WELD CROSS REFERENCE TABLE	
ISO WELD ID	WP WELD ID
UPIN-23A	#1088
UPIN-24A	#1089
UPIN-25A	#1087
UPIN-26A	#1090

3. FOR UNIT 2 DWS SEE ISI-0318-C

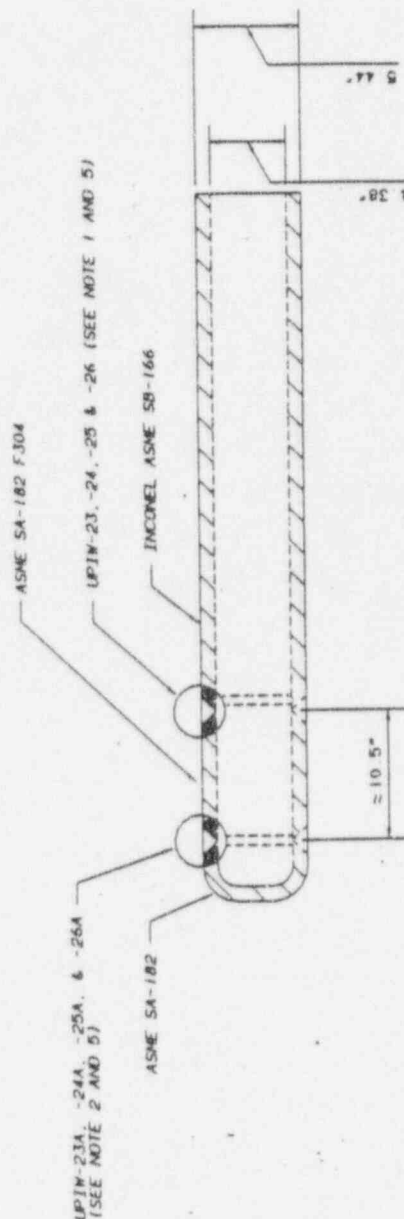
4. FOR PENETRATION WELDS SEE DWG CH-2651-C

5. WELDS UPIN-23A, -24A, -25A, AND -26A ARE
TO BE CLASSIFIED RCS SYSTEM FOR PRISM
IDENTIFIERS WELDS UPIN-23, -24, -25
AND -26 ARE TO BE CLASSIFIED RV SYSTEM
FOR PRISM IDENTIFIERS

6. DIMENSIONS ARE FOR INFORMATION ONLY



LOCATION ON CLOSURE HEAD (REF CH-2651-C)



6	DWG	DATE	REV	1/8-1/8-25
5	ADD STD NO 5 & NOTE REACTOR VESSEL COORDINATES AND /CDI BY 20			
4	CHANGE NOTE 1 CORRECT NOTE 3, CHANGE DWS NO & SIZE FROM A TO C			
3	DWG	EDC	Q-9	7-13-93
2	DWG	EDC	Q-9	7-13-93
1	DWG	EDC	Q-9	7-13-92
	ADD 1 IN. DIA TO REFERENCE DIMENSIONS			
REV	BY	CHECKED	SUBMITTED	APPROVED
				DATE

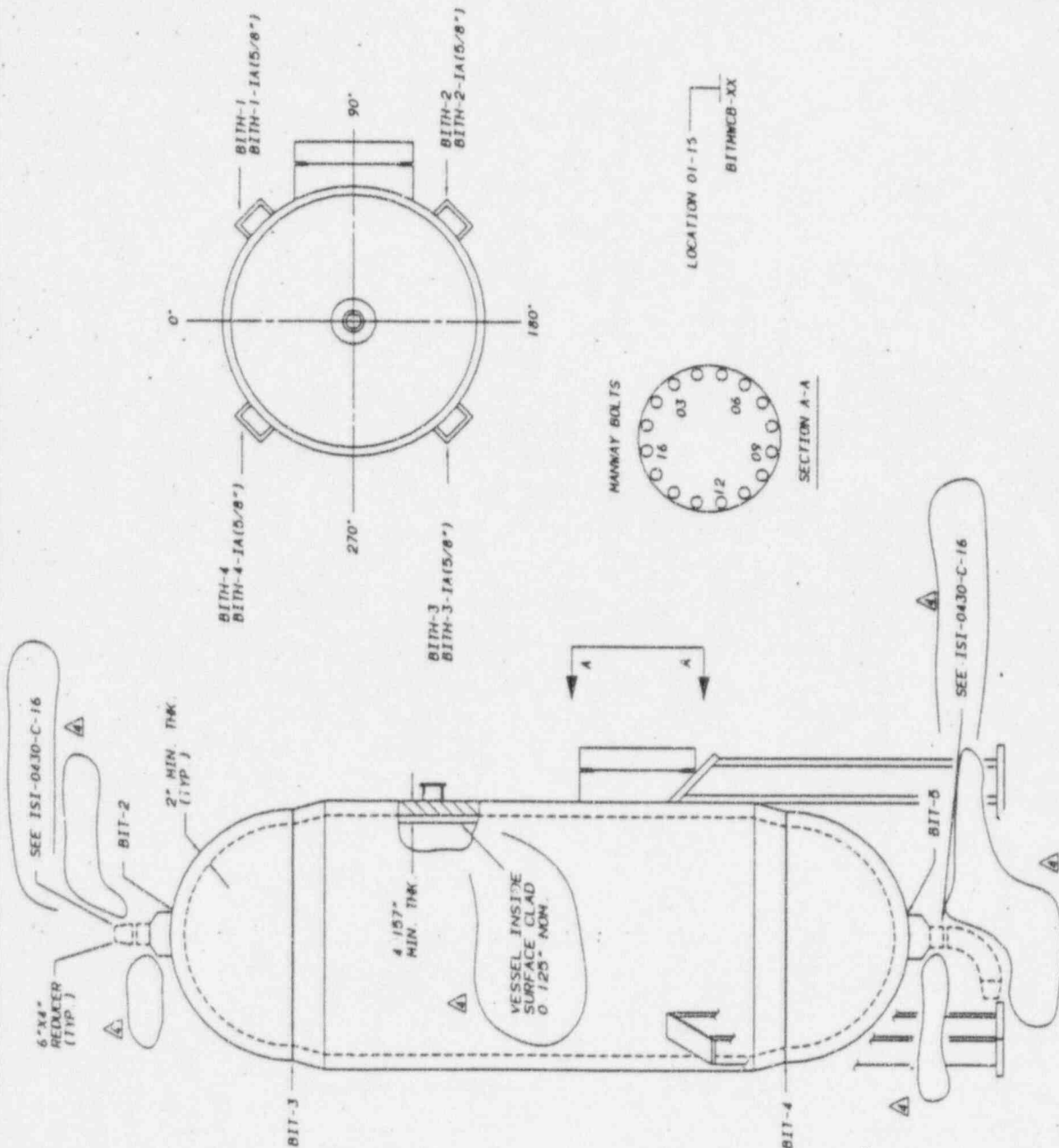
SEQUOYAH NUCLEAR PLANT
UNIT 1
AUXILIARY HEAD ADAPTER/WEL WELD
(SEE NOTE 5)

UNPLANNED	DATE	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED Q-8	CAD MANIPULATED DRAWING	REV
SUBMITTED	ISI-0014-C-01		06

REFERENCE DRAWINGS

113E275
 NAVCO A-7149
 NAVCO A-7150
 MATERIAL SPECIFICATIONS
 SHELL AND HEAD
 SA516 GR 70
 SA240 TP 304L CLADDING
 NOZZLES
 SA350 FL 2
 FITTINGS
 SA 403 WP 316
 6" SCH 160

ASME CC-2 (EQUIVALENT)

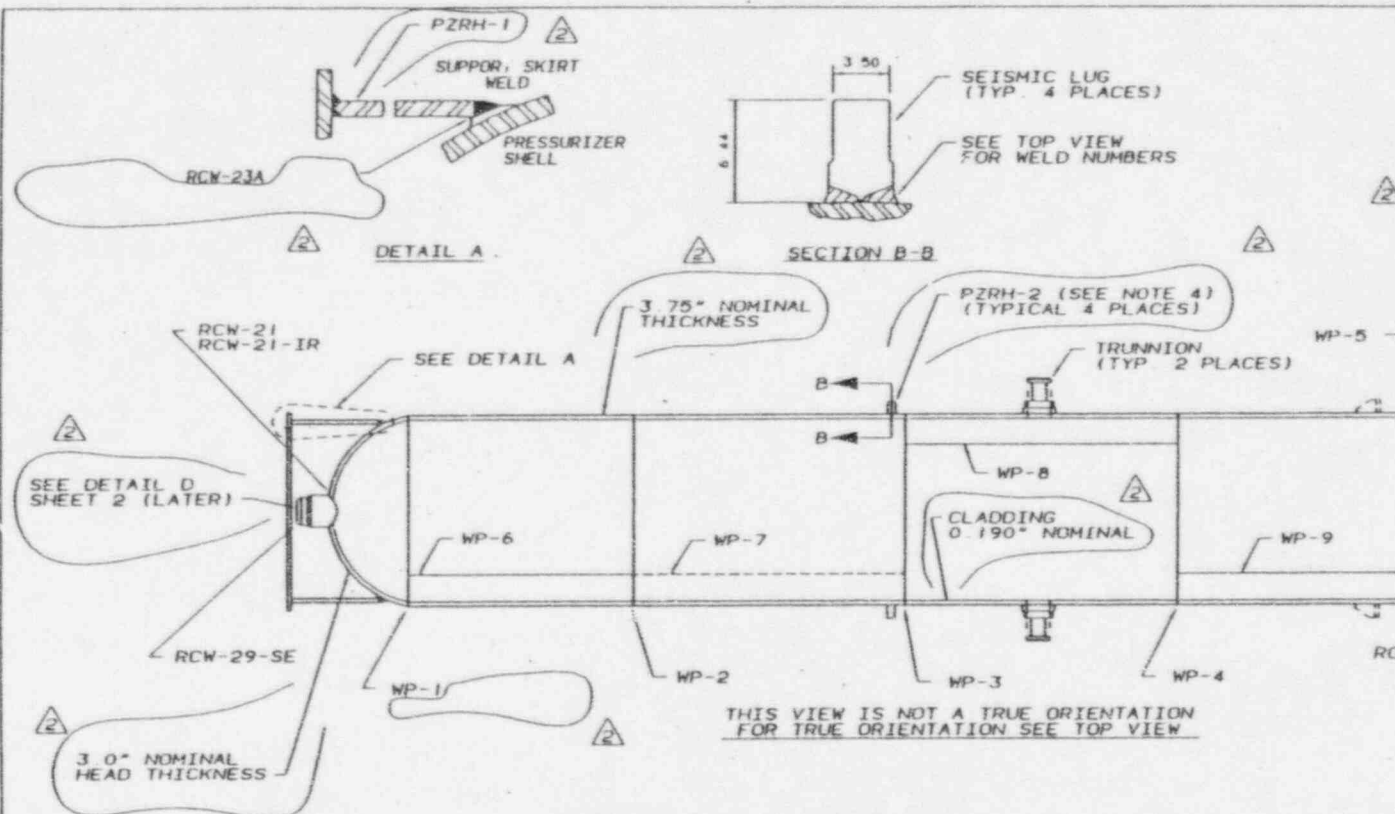


1	REV	DATE	BY	CHKD	APPD	DESCRIPTION	SCALE	DATE
1	REV	10-16-83	WJ	WJ	WJ	ADD CLAD DIM	1:1	10-16-83
2	REV					ADD SAFETY INJECTION SYSTEM TO TITLE	1:1	10-20-82
3	REV					CHANGE TITLE FROM BIT TO CIP TANK	1:1	10-24-81
4	REV					ADD 14 SITE & SECTION A-A CHANGED CIP CLASS & PUT IN CIP	1:1	10-28-82
5	REV					REV	1:1	10-28-82
6	REV					REV	1:1	10-28-82
7	REV					REV	1:1	10-28-82
8	REV					REV	1:1	10-28-82
9	REV					REV	1:1	10-28-82
10	REV					REV	1:1	10-28-82
11	REV					REV	1:1	10-28-82
12	REV					REV	1:1	10-28-82
13	REV					REV	1:1	10-28-82
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52	REV					REV	1:1	10-28-82
53	REV					REV	1:1	10-28-82
54	REV					REV	1:1	10-28-82
55	REV					REV	1:1	10-28-82
56	REV					REV	1:1	10-28-82
57	REV					REV	1:1	10-28-82
58	REV					REV	1:1	10-28-82
59	REV					REV	1:1	10-28-82
60	REV					REV	1:1	10-28-82
61	REV					REV	1:1	10-28-82
62	REV					REV	1:1	10-28-82
63	REV					REV	1:1	10-28-82
64	REV					REV	1:1	10-28-82
65	REV					REV	1:1	10-28-82
66	REV					REV	1:1	10-28-82
67	REV					REV	1:1	10-28-82
68	REV					REV	1:1	10-28-82
69	REV					REV	1:1	10-28-82
70	REV					REV	1:1	10-28-82
71	REV					REV	1:1	10-28-82
72	REV					REV	1:1	10-28-82
73	REV					REV	1:1	10-28-82
74	REV					REV	1:1	10-28-82
75	REV					REV	1:1	10-28-82
76	REV					REV	1:1	10-28-82
77	REV					REV	1:1	10-28-82
78	REV					REV	1:1	10-28-82
79	REV					REV	1:1	10-28-82
80	REV					REV	1:1	10-28-82
81	REV					REV	1:1	10-28-82
82	REV					REV	1:1	10-28-82
83	REV					REV	1:1	10-28-82
84	REV					REV	1:1	10-28-82
85	REV					REV	1:1	10-28-82
86	REV					REV	1:1	10-28-82
87	REV					REV	1:1	10-28-82
88	REV					REV	1:1	10-28-82
89	REV					REV	1:1	10-28-82
90	REV					REV	1:1	10-28-82
91	REV					REV	1:1	10-28-82
92	REV					REV	1:1	10-28-82
93	REV					REV	1:1	10-28-82
94	REV					REV	1:1	10-28-82
95	REV					REV	1:1	10-28-82
96	REV					REV	1:1	10-28-82
97	REV					REV	1:1	10-28-82
98	REV					REV	1:1	10-28-82
99	REV					REV	1:1	10-28-82
100	REV					REV	1:1	10-28-82

SEJOYAH NUCLEAR PLANT
 UNIT 1
 SAFETY INJECTION SYSTEM
 CENTRIFUGAL CHARGING PUMP TANK

DATE	7-27-82	SCALE	NOT TO SCALE
APPROVED	WJ	CAD	INITIALS
DESIGNED	WJ	CAD	INITIALS
SUBMITTED	WJ	CAD	INITIALS
DATE	7-27-82	SCALE	NOT TO SCALE
APPROVED	WJ	CAD	INITIALS
DESIGNED	WJ	CAD	INITIALS
SUBMITTED	WJ	CAD	INITIALS

ISI-0069-C-01



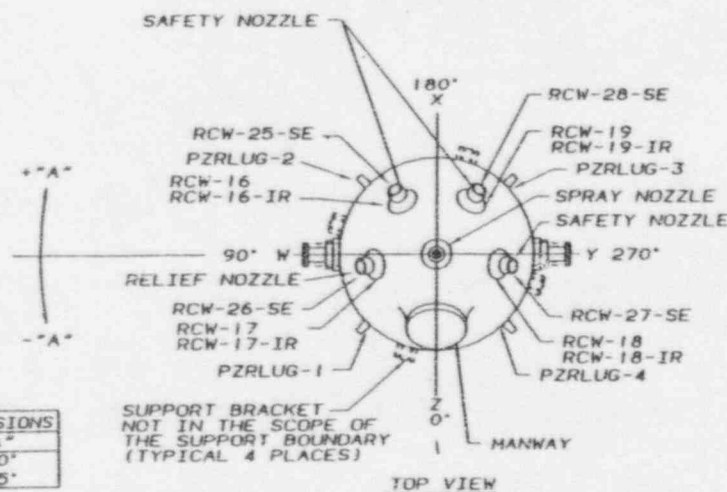
REFERENCE DRAWINGS
CONTRACT NO. 68C60-91934 (N2M-2-6)
PRESSURIZER MANUAL (FIGS 5-1, 5-7)

MATERIAL SPECIFICATIONS

ALL VESSEL SHELL AND HEAD SECTIONS ARE FABRICATED OF SA-533, CLASS 2 MANGANESE-MOLYBDENUM STEEL AND ARE CLAD WITH AUSTENITIC STAINLESS STEEL. THE NOZZLES ARE FABRICATED OF SA-508, CLASS 2, MANGANESE-MOLYBDENUM STEEL. SAFE END CONNECTIONS ARE SA-182, GR. F-316L FORGINGS. THE SUPPORT SKIRT IS APPROXIMATELY 1.5 INCHES THICK AND IS FABRICATED OF SA-516, GR. 70, CARBON STEEL PLATE. ASME (CC-1) EQUIVALENT

NOTES

1. THIS DWG SUPERCEDES BOTH CHM-2362-A AND CHM-2363-A.
2. FOR UNIT 2 DWG SEE ISI-0396-C
3. 0' IS 4' OF MANWAY AND MEASURED CLOCKWISE IN THE TOP VIEW
4. SUPPORT CLASSIFIED AS RIGID SUPPORT AT THIS LOCATION SEE DRAWING 48N428 FOR CONFIGURATION.
5. VESSEL INSIDE SURFACE CLAD 0.190" NOM



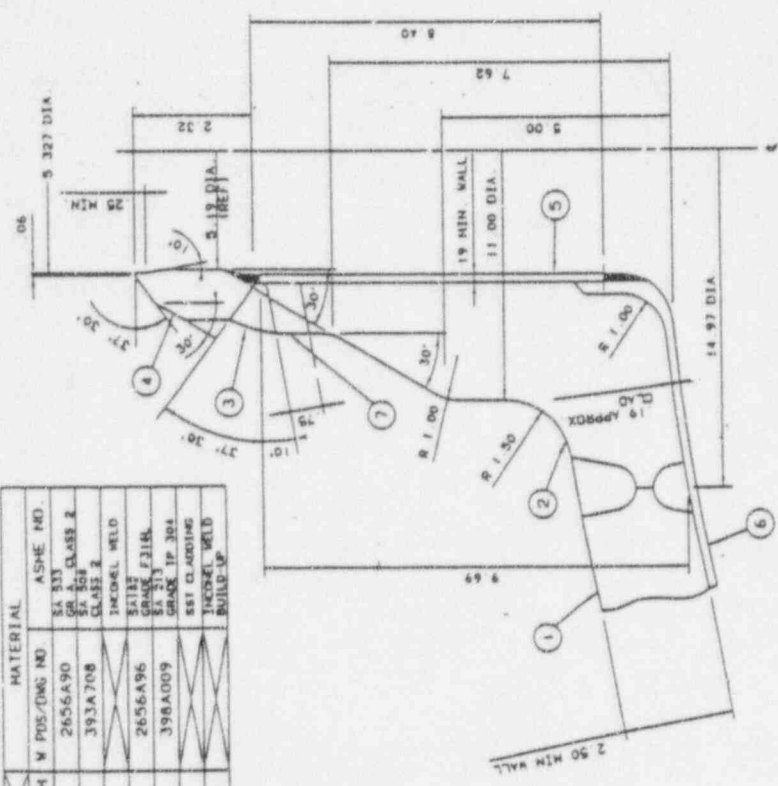
AS BUILT DIMENSIONS	
WELD NO	"A"
WP-6	-60"
WP-9	-45"

2	WPC	8-27-81	12-9-81
ADD PRESSURIZER SUPPORT 100 PZRH-1 & PZRH-2 & ADD NOTES 4&5			
1	WPC	8-27-81	12-9-81
REVISE SAFETY & RELIEF NOZZLE NOTES ADD NOTE 3			
REV	BY	CHECKED	SUBMITTED
APPROVED			
DATE			
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 1			
PRESSURIZER			
DRAWN	WPC	DATE	8-27-81
CHECKED	WPC	APPROVED	RHE
SUBMITTED		DATE	8-27-81
SCALE		NOT TO SCALE	
TST-0394-C-01		102	

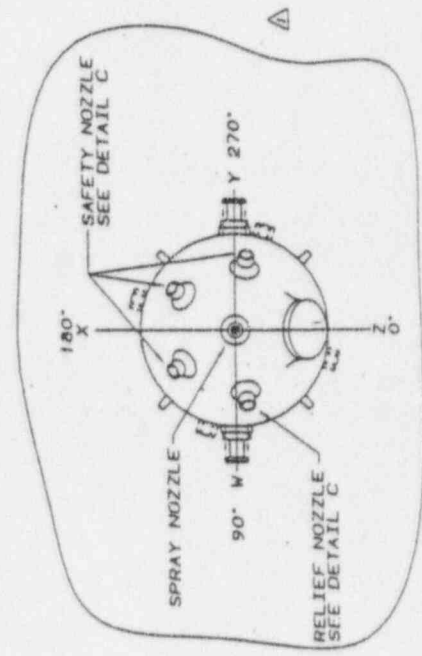
REFERENCE DRAWINGS
WESTINGHOUSE DWG NO. EDSK-3793488
ASME (CC-1) EQUIVALENT

NOTE: THE DIMENSIONS ON THIS DRAWING
ARE FOR INFORMATION ONLY

ITEM	W POS/DWG NO.	MATERIAL	ASME NO.
1	2656A90	SA 533 CLASS 2	
2	393A708	SA 533 CLASS 2	
3		INCOEL WELD	
4	2656A96	SA 533 CLASS 2	
5	398A009	SA 533 CLASS 2	
6		SS1 CLADDING	
7		INCOEL WELD BUILD-UP	

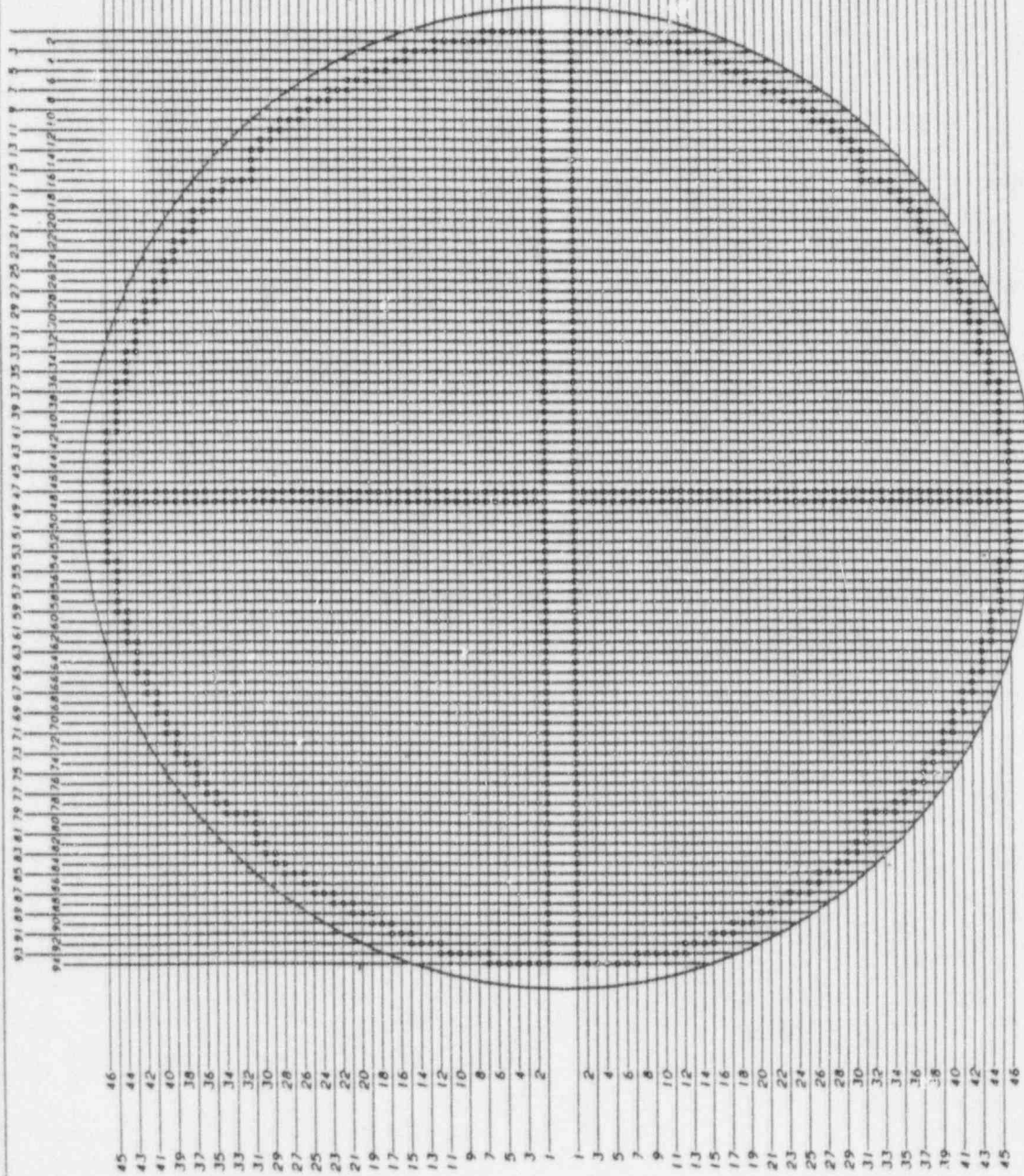


PRESSURIZER SAFETY & RELIEF NOZZLE
DETAIL C



1	REVISE SAFETY & RELIEF NOZZLE NOTES CORRECT WELDING DUE TO DRY, BT DATE	DESIGNER	DATE
2	REVISIONS	DATE	BY
HARDWARE, TOOL, SHAS		SOFTWARE, CADSW	USER, ITSDOP
TENNESSEE VALLEY AUTHORITY			
SECURITY NUCLEAR PLANT			
PRESSURIZER			
SAFETY & RELIEF NOZZLE DETAIL			
DESIGNER	DATE	BY	DATE
CHECKED	DATE	BY	DATE
TSI-0394-C01			

ASME CC-1 (EQUIVALENT)



TUBE SHEET ARRANGEMENT

NOZZLE

NOTE: 1. THERE ARE 3 JMS U-TUBES PER STEAM GENERATOR MADE OF
NI-CR-FE ALLOY (INCOMEL ASME-SB-163) HAVING 0.875 O.D.
AND 0.050 AVG. WALL THK.
2. FOR UNIT 2 DNG SEE ISI-0398-C.
3. THIS DNG REPLACES 76M1 FOR UNIT 1.

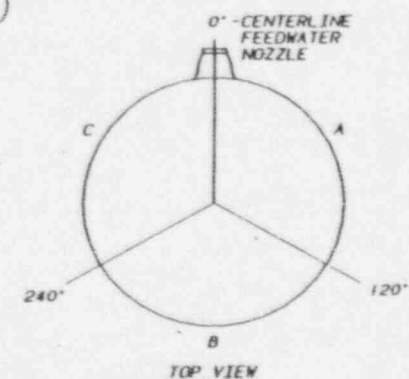
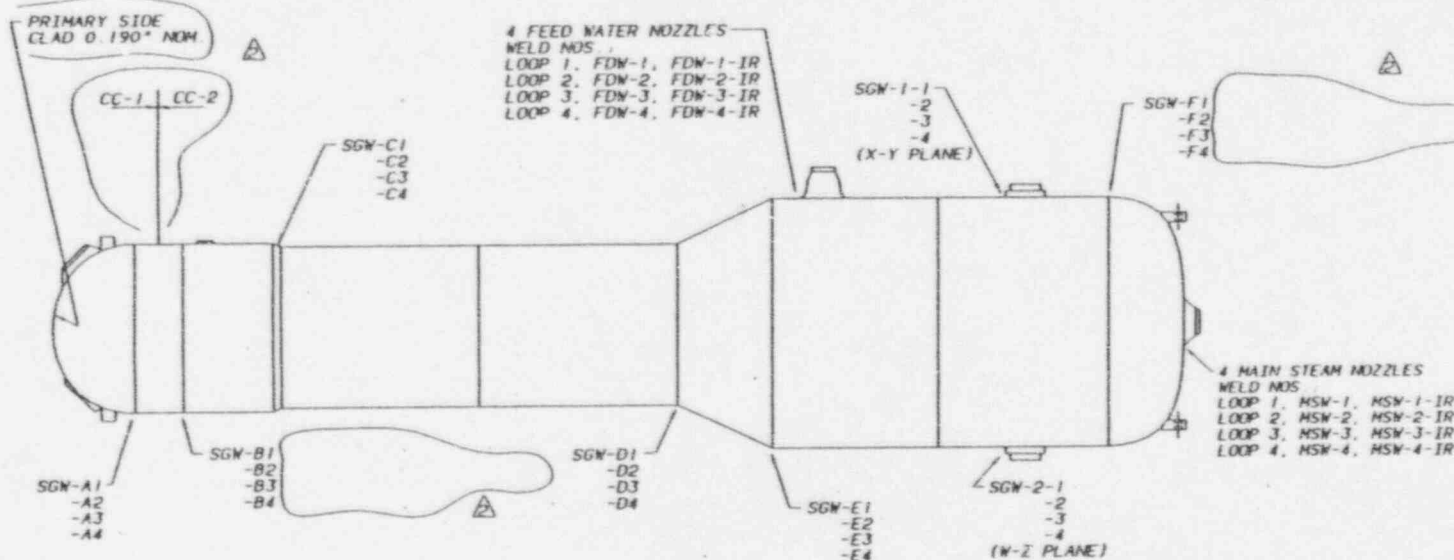
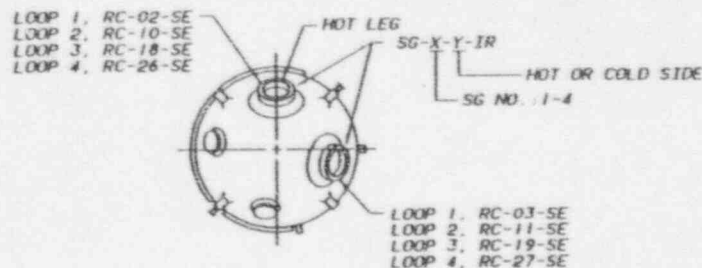
REV.	DATE	DESCRIPTION	BY	CHKD	APP
1		TEKESSEE VALLEY AUTHORITY			
SEJOYAH NUCLEAR PLANT					
UNIT 1					
STEAM GENERATOR					
TUBE SHEET ARRANGEMENT					
DATE	BY	CHKD	APP	SCALE	
10/1/76	JME	JME	JME	1/8" = 1'-0"	
PROJECT NO. ISI-0397-C100					

REFERENCE DRAWINGS
 CONTRACT NO. 68C60-91934 N2M-2-4
 STEAM GEN MANUAL (FIG 5-1)
 ASME CC-1 (EQUIVALENT)
 ASME CC-2 (EQUIVALENT)

NOTES:

1. FOR UNIT 2 DWG SEE ISI-0401-C
2. THIS DWG SUPERCEDES CHN-2345-B (FOR UNIT 1 ONLY)

3. STEAM GENERATOR NOZZLE SAFE END TO PIPE WELD ID'S ARE SHOWN ON RC MAIN LOOP DWG ISI-0402-C. THESE ARE CLASSIFIED AS ASME SECTION XI CATEGORY B-F. (1 * RC-02) THE EXAMINATION OF THESE WELDS IS INCLUDED IN THE EXAMINATION OF THE NOZZLE SAFE END WELD.
4. STEAM GENERATOR NOZZLE TO SAFE END WELD IS'S SHOWN ON THIS DWG ARE ASME SECTION XI EXAM CATEGORY B-F. DISSIMILAR METAL WELDS. (1 * RC-02-SE)



ASME CC-1 MATERIAL SPECIFICATIONS

THE TUBE PLATE IS A SA-508, CLASS 2, STEEL FORGING CLAD ON THE PRIMARY SIDE WITH NiCrFe ALLOY. THE HEMISPHERICAL CHAMBER IS A SA-216, GR. MCC CASTING, CLAD WITH AUSTENITIC STAINLESS STEEL.

THE STEAM GENERATOR PRIMARY INTEGRALLY CAST NOZZLES ARE FABRICATED TO SA-216, GR. MCC. THE NOZZLES HAVE BUTTERED 30BL SAFE ENDS.

ASME CC-2 MATERIAL SPECIFICATIONS

THE VESSEL SHELL SECTIONS ARE FABRICATED OF SA-533, GR. A CLASS 1, STEEL PLATE.

THE VESSEL HEAD SECTION IS FABRICATED OF SA-533, GR. A, CLASS 1, STEEL PLATE.

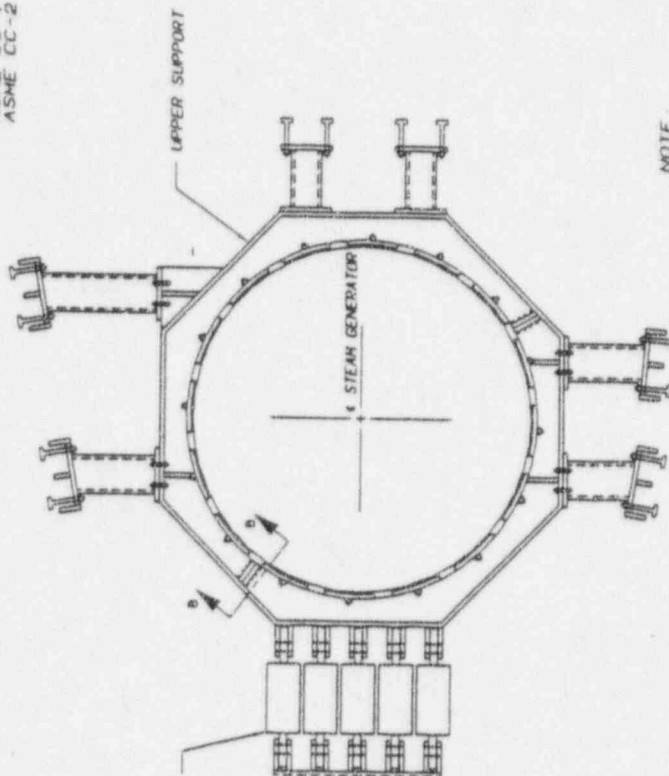
EACH STEAM GENERATOR INCLUDES ONE FEEDWATER NOZZLE (3.62 INCHES NOMINAL WALL THICKNESS) AND ONE MAIN STEAM NOZZLE (3.62 INCHES NOMINAL WALL THICKNESS). ALL OF THE NOZZLES ARE FABRICATED OF SA-508, CLASS 2, STEEL.

2	APR	1985	12-9-85
CHANGE NOTE 5, ADD MFT'S (EBC) ADD CLAD DIMENSION & CLASS BREAK REMOVE WELD PORTIONS AND NOTES 3 & 4			
1	PHB	EDC	12-9-85
REVISE NOTES ADD PRISM 0'S			
REV	BY	CHECKED	SUBMITTED
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 1			
STEAM GENERATOR			
DRAWN	APR	DATE 3-27-91	SCALE NOT TO SCALE
CHECKED	PHB	APPROVED	ONE
SUBMITTED			EDC
ISI-0399-C-01			02

REFERENCE DRAWINGS

48N421
48N421-1
48N422
48N423
48N424
48N425
48N426
48N427
48N431
48N432

ASME CC-1 (EQUIVALENT)
ASME CC-2 (EQUIVALENT)



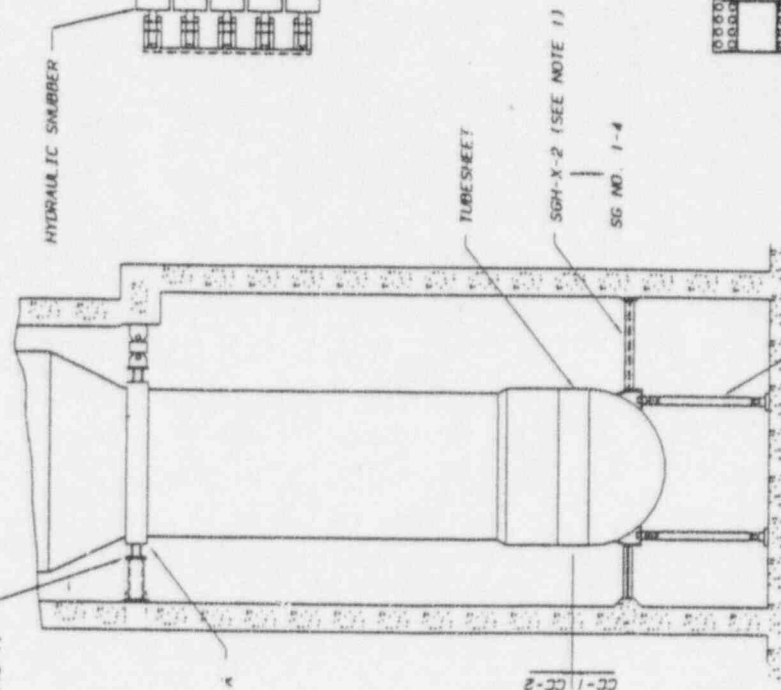
NOTE

1. SUPPORTS CLASSIFIED AS RIGID SUPPORT AT THIS LOCATION. SEE REFERENCE DRAWINGS FOR DETAILS

SGH-X-1 (SEE NOTE 1)

SG NO. 1-4

SEE DETAIL A



TUBESHEET

SGH-X-2 (SEE NOTE 1)

SG NO. 1-4

SGH-X-3 (SEE NOTE 1)

SG NO. 1-4



SECTION B-B

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 1					
STEAM GENERATOR					
SUPPORT LOCATIONS					
DESIGNED	WJD	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	WJD	APPROVED	WJD	END	UNFINISHED DRAWING

REFERENCE DRAWINGS

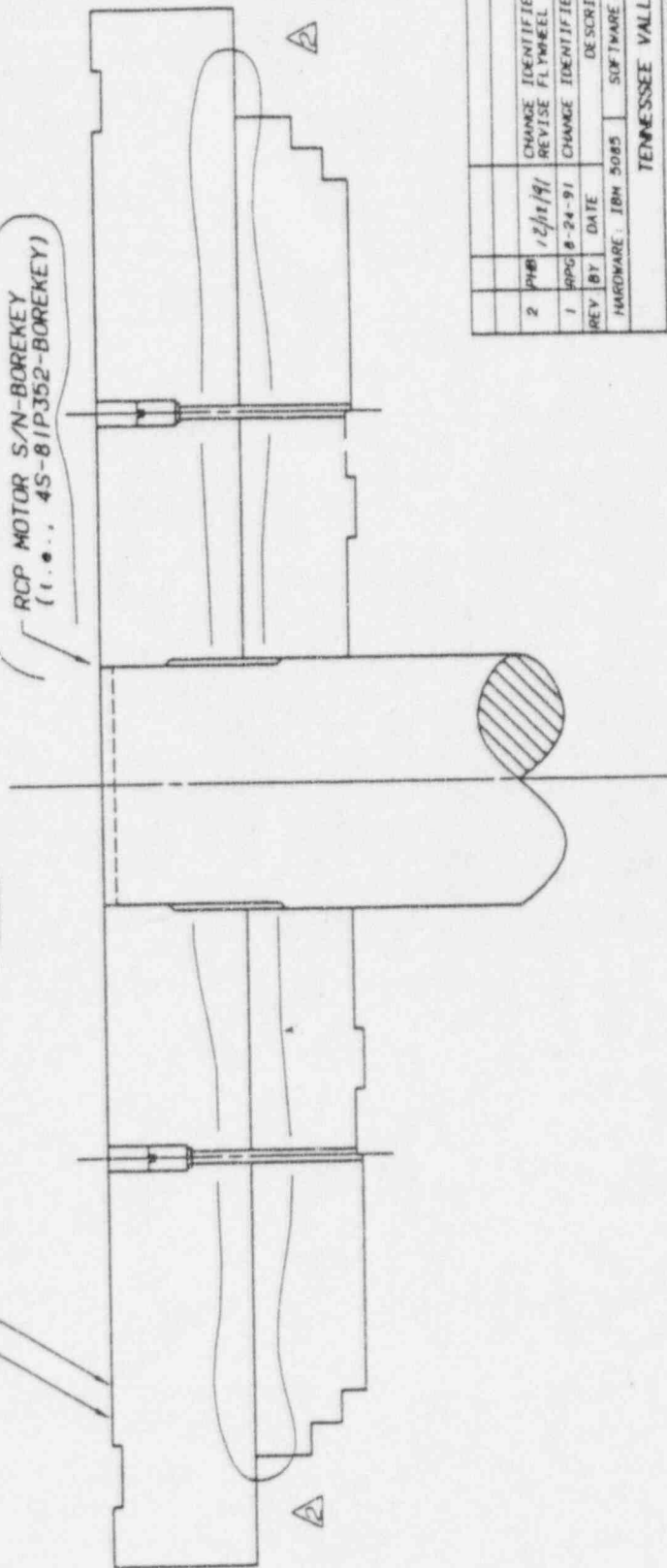
WESTINGHOUSE DWG 1682F82

NOTES:

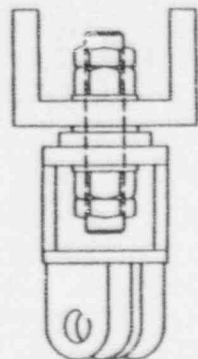
1. THIS DWG. IS FOR AUGMENTED EXAM
2. LIST OF AVAILABLE RCP S/N'S:
IS-81P351 IS-81P352 IS-88P719
2S-81P351 2S-81P352
3S-81P351 3S-81P352
4S-81P351 4S-81P352
3. RCP FLYWHEELS MAY BE INSTALLED
IN EITHER UNIT 1 OR UNIT 2
OR MAY EXIST AS A SPARE.

RCP MOTOR S/N-SUR (I.E., 4S-81P352-SUR)
RCP MOTOR S/N-VOL (I.E., 4S-81P352-VOL)

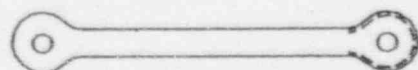
RCP MOTOR S/N-BOREKEY
(I.E., 4S-81P352-BOREKEY)



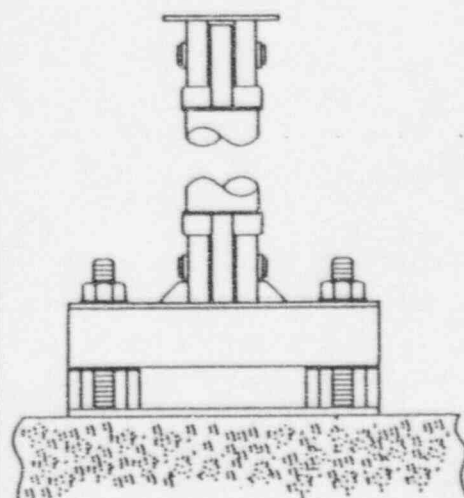
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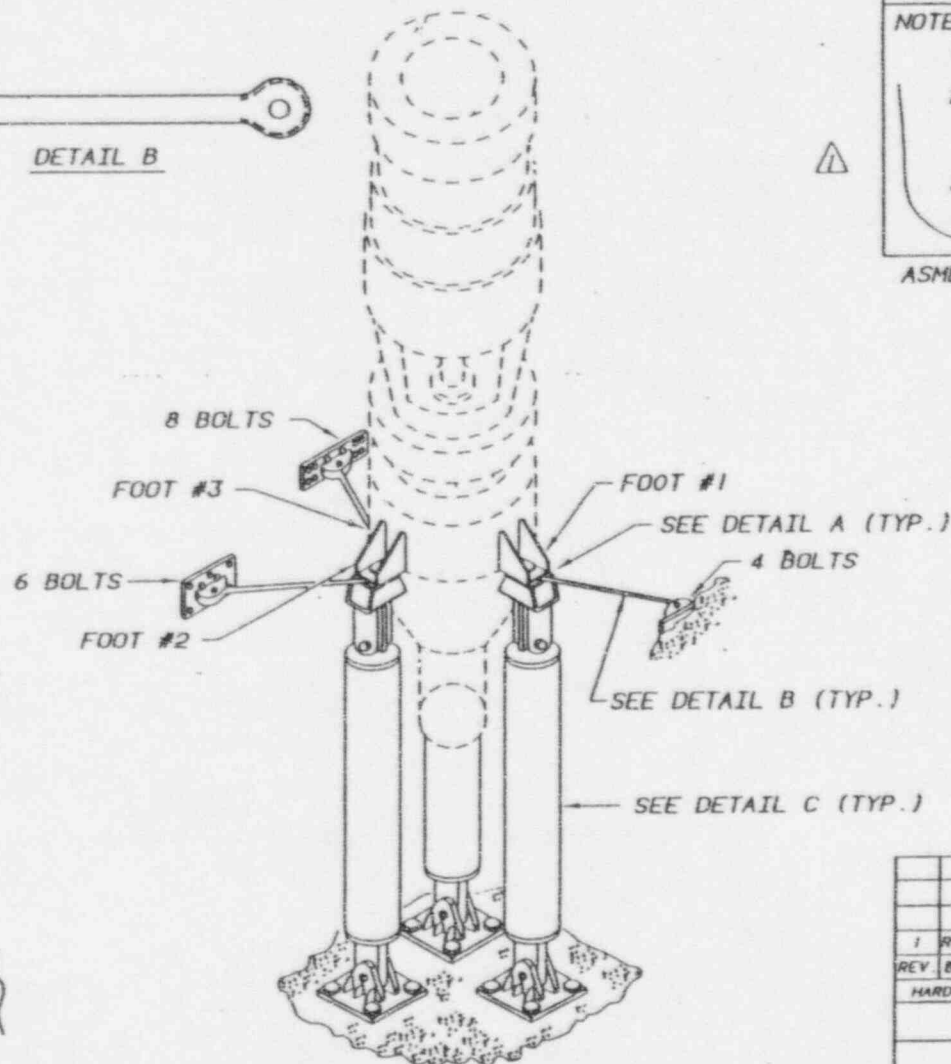
DETAIL A



DETAIL B



DETAIL C



REFERENCE DRAWINGS

48N421, 48N422, 48N423, 48N426, 48N433

NOTES:

1. THIS DWG SUPERCEDES ISI-0282-A.
2. UNIT 1 REACTOR COOLANT PUMPS DO NOT HAVE ANY WELDED PUMP FEET, 2 PIECE CASINGS WITH CAST ON FEET.
3. WESTINGHOUSE MEMO FROM R.A. WORTHEN TO D.R. PATTERSON DATED 8-14-73, "REACTOR COOLANT PUMP CASING"

ASME CC-1 (EQUIVALENT)

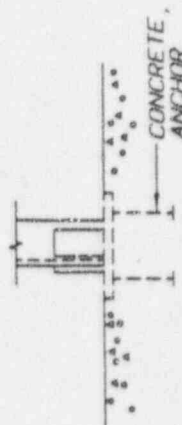
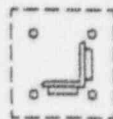
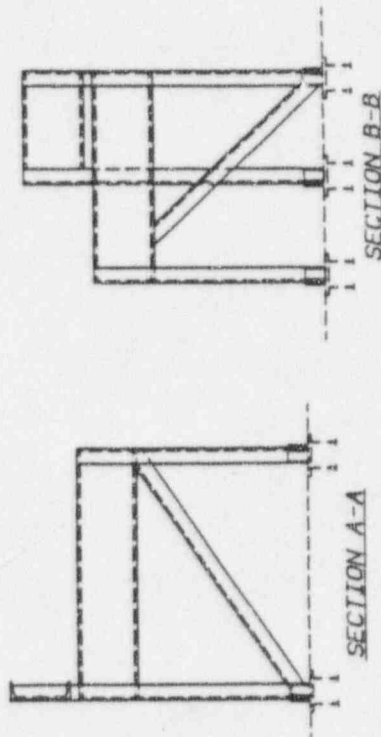
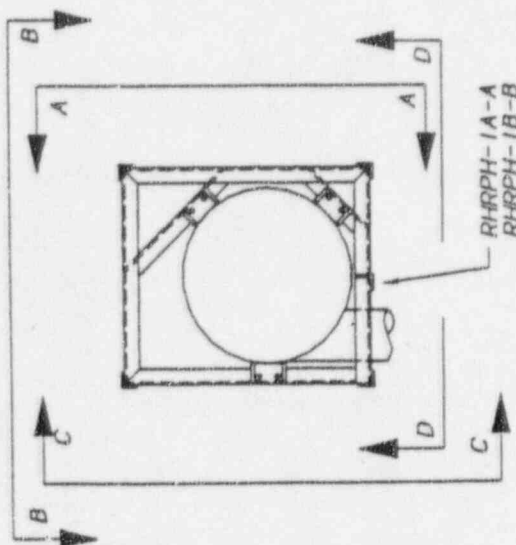
RCPH-X-Y
FOOT #1-3
PUMP #1-4

1	RPG 8-24-91	CHANGE NOTE 2, ADD NOTE 3	APPROVED	DATE
REV. BY	DATE	DESCRIPTION	CK'D	SUB APP
HARDWARE, IBH 5085	SOFTWARE, CADAM	USER, ISICMP		
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 1				
REACTOR COOLANT PUMP SUPPORT				
DRAWN: RPG	SUBMITTED	APPROVED	SCALE NTS	
DATE: 5-19-88	DATE: 6-7-88	DATE: 6-7-88	SHEET 1 OF 1 SHEET(S)	
CHECKED: JCG	ICE	GLB	DRAWING NO	REV
DATE: 6-7-86			ISI-0325-B	01

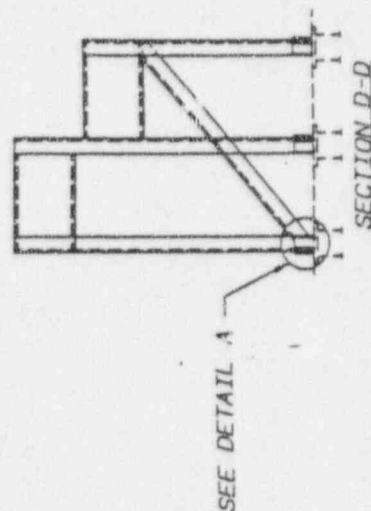
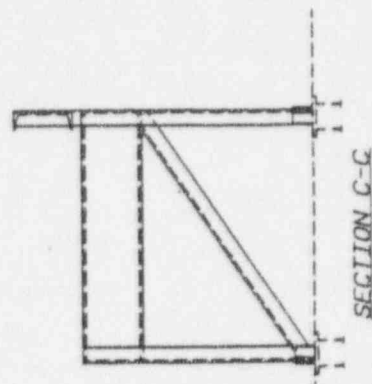
ASME CC-2 (EQUIVALENT)

NOTES:

1. FOR UNIT 2 DRAWING SEE ISI-0352-B.
2. FOR PIPING SEE CHM-2435-C-02 & -03.



DETAIL A



3	APG	540	232	44W	12-16-93
CHANGE NOTES					
2	PHB	EDC	JCG	GLB	12-9-91
REMOVE NOTE 1, ADD SIFT NUMBER 10					
1	APG	PHB	EDC	RHE	8-24-91
REVISE NOTES AND ADD BOTTOM VIEW					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 1					
RHR PUMP					
SUPPORT LOCATIONS					
DRAWN	APG	DATE: 4-4-89	SCALE: NOT TO SCALE		
CHECKED: MRA	APPROVED: GLB	CAD MAINTAINED		DRAWING	REV
SUBMITTED: NEC	TST-0353-B-0				03

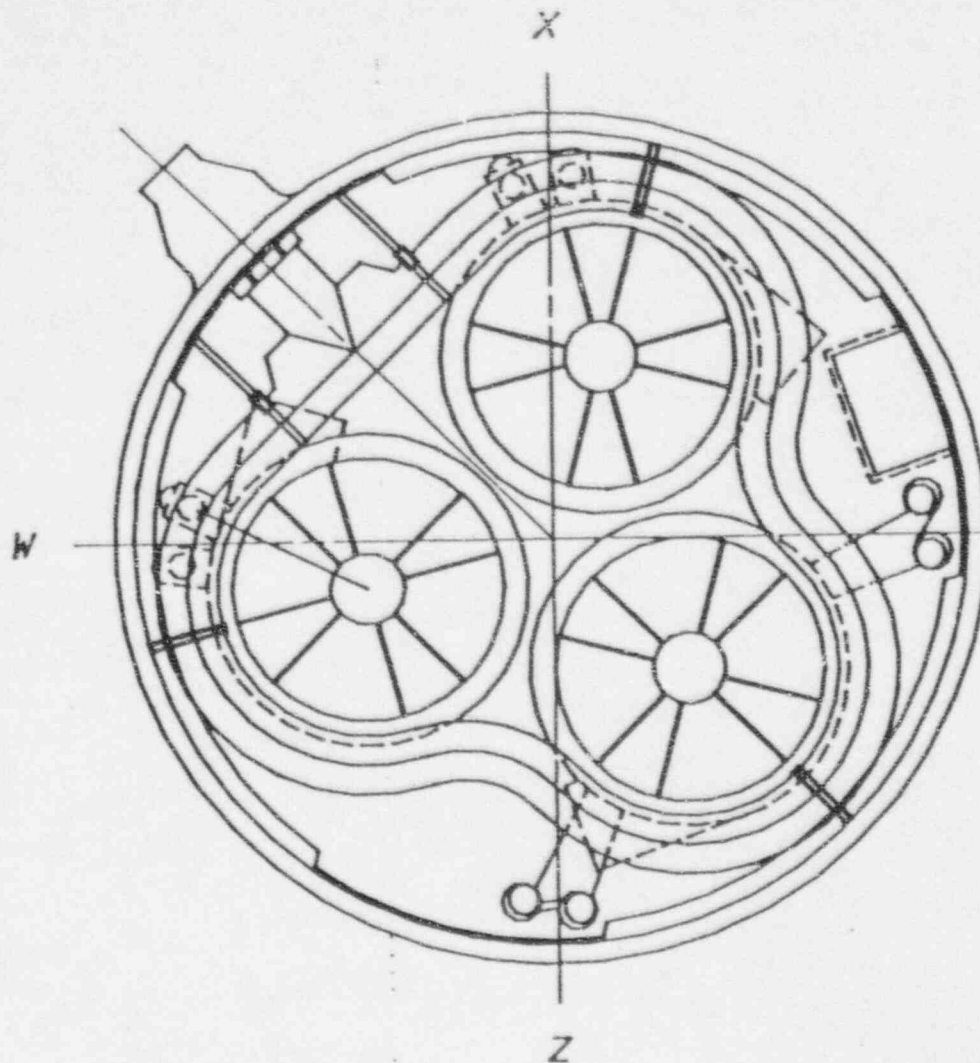
SEE DETAIL A

REFERENCE DRAWINGS

CONTRACT NO. 91934 (N2M-2-4)
DWG NO. 1097J74

ASME CC-2 (EQUIVALENT)

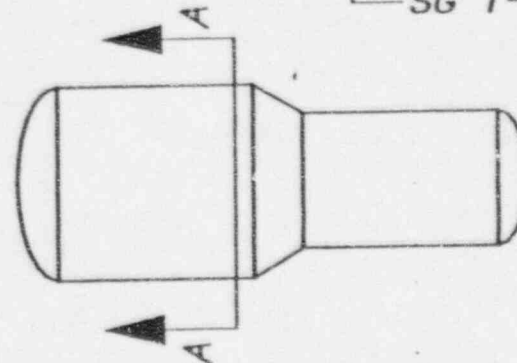
NOTE: AUGMENTED EXAM SEE SECTION 20.8



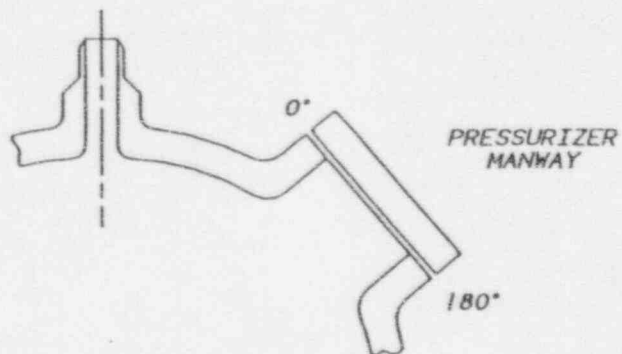
SECTION A-A

1-FDRING-SG-X (FEEDRING HEADER)
1-FDTEE-SG-X (FEEDRING TEE)

SG 1-4



REV.	BY	DATE	DESCRIPTION	CK'D	SUB	APP
HARDWARE: IBM 5085			SOFTWARE: CADAM	USER: ISICMP		
TENNESSEE VALLEY AUTHORITY						
SEQUOYAH NUCLEAR PLANT						
UNIT 1						
STEAM GENERATOR						
FEEDWATER RING HEADER						
DRAWN: RPG		SUBMITTED		APPROVED		SCALE NTS
DATE: 7-13-89		DATE: 5/9/90		DATE: 5/9/90		SHEET 1 OF 1 SHEET(S)
CHECKED: EDC		DATE: 5/8/90		DRAWING NO.		REV.
				ISI-0357-A		00



REFERENCE DRAWINGS

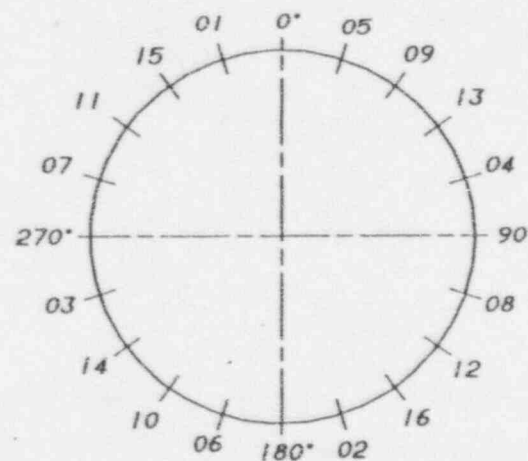
CONTRACT NO. 68C60-91934
PRESSURIZER MANUAL N2M-2-6
(FIG. 5-4)
(FIG. 5-6)
STM GEN MANUAL N2M-2-4
(FIG. 5-1)

ASME CC-1 (EQUIVALENT)

NOTES:

4

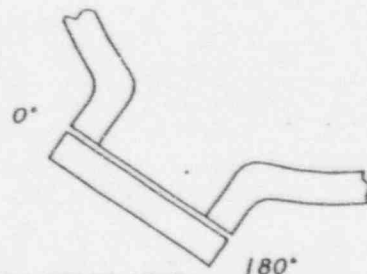
2) FOR UNIT 2 DWG SEE ISI-0299-B



SG ID MWC-1-X-YY-Z

UNIT #
STM GEN # (1-4)
BOLTING # (01-16)
HOT OR COLD LEG (H/C)

PZR ID I-MWC-YY
UNIT #
BOLTING # (01-16)



4

4	RPG	8-22-91	DELETE NOTE 1, ADD REF DWGS	ANDREW
3	RPG	3-8-88	ADD IDENTIFIERS & MADE CAD	KEC HRA GLB
2	LAD	9-5-86	CHANGE #5 FOR PRISM	HRA RME GLB
1	KEY	9-17-85	CORRECT BOLT PATTERN	RME GLB
REV	BY	DATE	DESCRIPTION	CK'D SUB APP
HARDWARE: IBM 5085			SOFTWARE: CADAM	USER: ISICHP

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT
UNIT 1

PRESSURIZER AND STEAM GENERATOR
MANWAY BOLTING

DRAWN: KEY	SUBMITTED	APPROVED	SCALE NTS
DATE: 10-27-80	DATE: ---	DATE: ---	SHEET 1 OF 1 SHEET(S)
CHECKED: EDC		GLB	DRAWING NO.
DATE: ---			MSG-0002-B 04

REFERENCE DRAWINGS

CONTRACT NO. 68C60-91934 (N2W-2-5)
WESTINGHOUSE DNG 610J800

MATERIAL SPECIFICATIONS

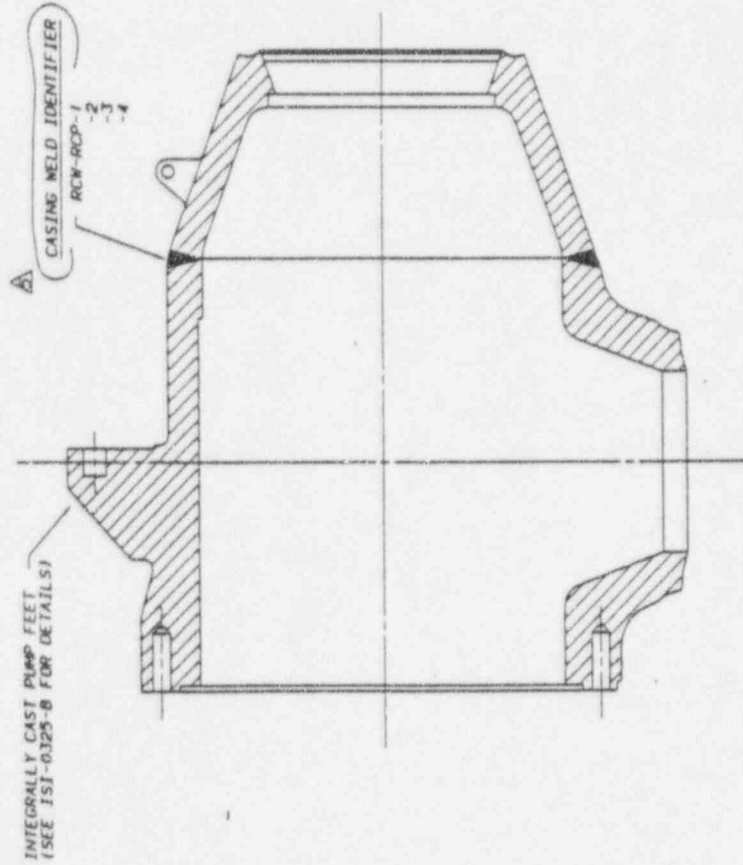
ESCO TYPE B 304SS
2 PIECE WELDED CASTING (REF. B25 910709 006)
(UNIT 1 ONLY) 4 50 INCHES MINIMUM
THICKNESS (REF. B25 920318 001)

A ASME CC-1 (EQUIVALENT)

NOTE: SEE 0-SI-DX-000-114.2 FOR RCP CASING AND WELD EXAMINATION INFORMATION.

CASING IDENTIFIER

RCP-1-CASING
RCP-2-CASING
RCP-3-CASING
RCP-4-CASING



5	REC	2588	ADD CASTING WELD TO REACTOR AND ADD CORRECT RET. AND NO. OF REACTOR COOLANT PUMP (NAME, DATE, AND SITE FILE NO.)	12-12-83	0-19-83
4	REC		ADD MATERIAL SPEC. NEW FCOT RT-43		0-8
3	REC		ADD FCOT TO THE NOTE	12-12-83	0-8
2	REC		ADD FCOT TO THE NOTE	0-20-81	0-8
1	REC		ADD NOTES AND REFERENCE DWS	0-11-83	0-8
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
<p>SEOUJAH NUCLEAR PLANT UNIT 1 REACTOR COOLANT PUMP CASING WELD</p> <p>MISSISSIPPI VALLEY AUTHORITY</p>					
DRAWN	REV	DATE	REV	SCALE	NOT TO SCALE
CHECKED	ENC	APPROVED	REV	CAD	NOTIFIED DRAWING
SUBMITTED					
MSG-0003-C-01					05

ASME CC-1 (EQUIVALENT)

1. FOR UNIT 2 DWG SEE ISI-0319-C
2. SEE DWG CHM-2343-B FOR CORE SUPPORT PAD DETAIL



SECTION B-B

4	APPC	SWC	2-22-82	10-16-85
ADD REACTION REPEL COORDINATES MEINZ & COORD VALUES PER FOOT BY 20				
3	APPC	PHB	EDC	GLB 8-20-81
ADD MEY DIMS. NOTE 2 CODE CLASS & RETURN ON CASH				
2	APPC	JCG	MHA	GLB 8-11-80
ADD INVISIBLE TO & MADE UNIT SPECIFIC				
1	APPC	MHA	MHE	GLB 9-24-84
REVISED FOR PHYSIS & ADDED CAD BLOCK				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY SEQUOYA NUCLEAR PLANT UNIT 1 REACTOR VESSEL BOTTOM HEAD PENETRATIONS				
DRAWN JJA	DATE 10-29-80		SCALE NOT TO SCALE	
CHECKED EDC	APPROVED GLB		CAD MAINTAINED DRAWING REV	
SUBMITTED	MSG-0004-C-01			10

NOTES:

1. FOR UNIT 2 DWG SEE ISI-0350-A
2. DIMENSIONS ARE FOR INFORMATION ONLY.

REFERENCE DRAWINGS

47B17-4

ASME CC-2 (EQUIVALENT)

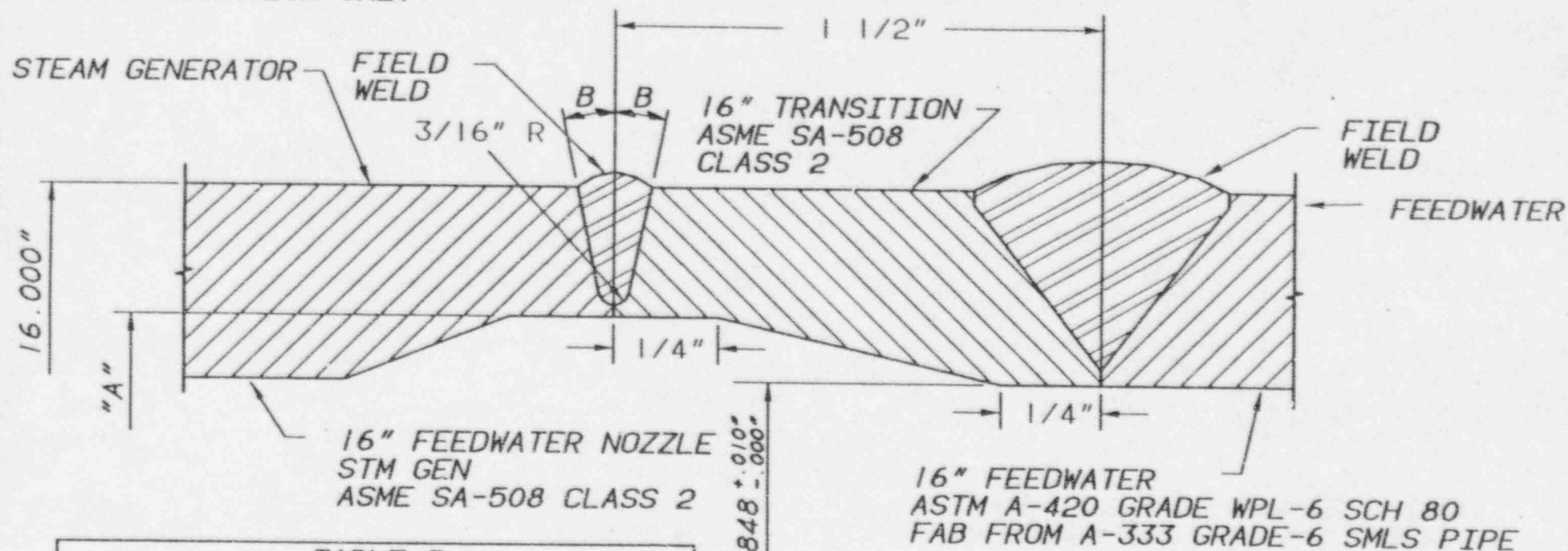
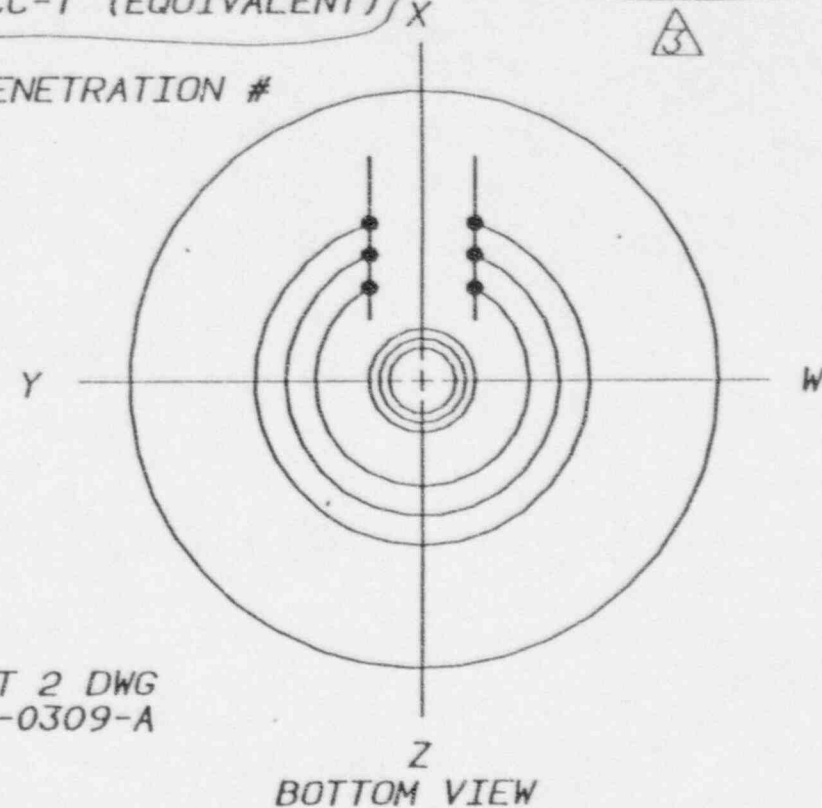
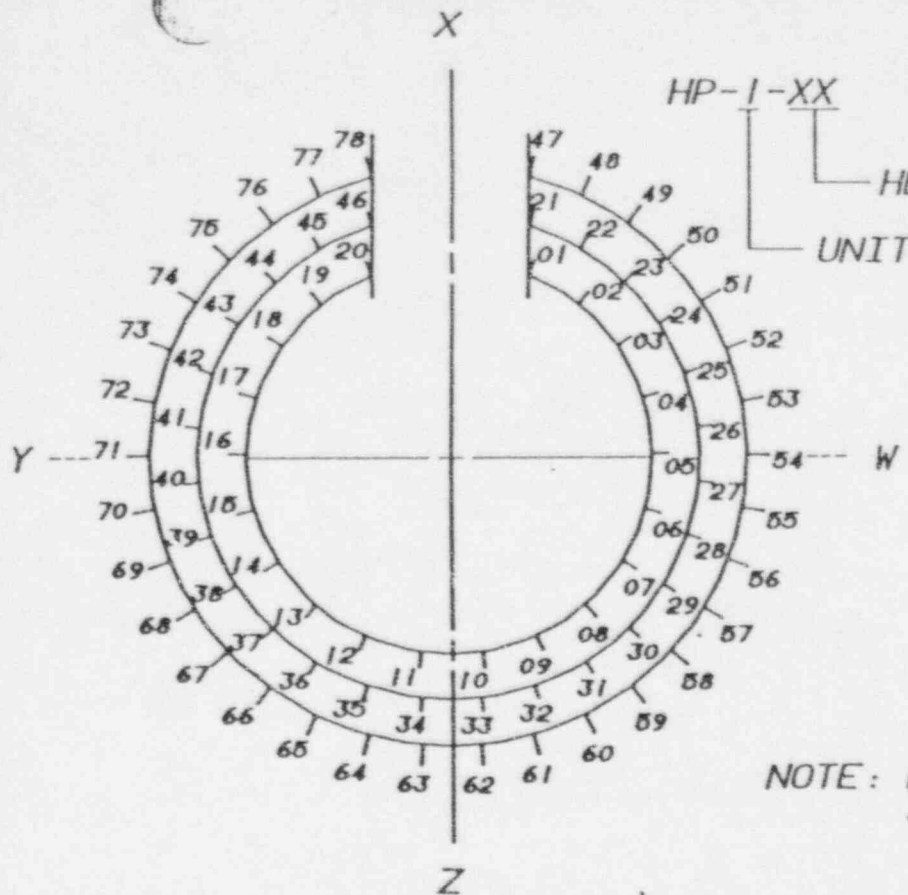


TABLE I		
STM GEN	"A"	"B"
1-3	14.842 ± .010 .000	23°
1-4	14.842 ± .010 .000	23°

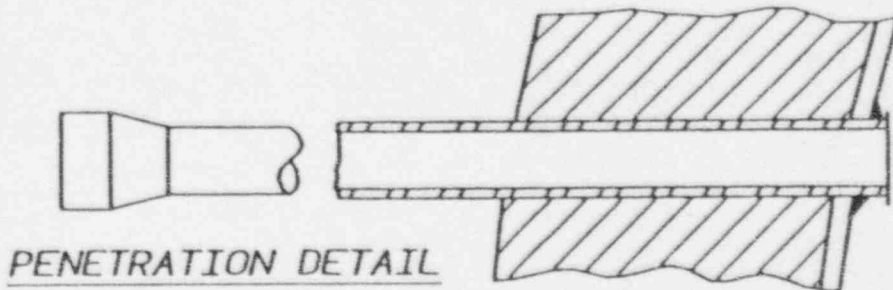
2	RPG	EDC	KEC	MRA	GLB	12-16-95
REMOVED TABLE INFO FOR STEAM GENERATORS 1&2						
1	RPG	KEC	MRA	GLB	8-8-88	
ADDED TABLE, NOTES, REF DWGS., MADE CAD AND UNIT SPECIFIC						
REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE	
TENNESSEE VALLEY AUTHORITY						
SEQUOYAH NUCLEAR PLANT UNIT 1 LOOPS 3 AND 4 STEAM GENERATOR/FEEDWATER TRANSITION SPOOL PIECE						
DRAWN: DEH		DATE: 6-28-79		SCALE: NOT TO SCALE		
CHECKED: EDC		APPROVED: GLB		CAD MAINTAINED DRAWING		REV
SUBMITTED:		MSG-0005-A-01				02

REFERENCE DRAWINGS
PZR MANUAL (FIG. 5.1)

ASME CC-1 (EQUIVALENT)



BOTTOM VIEW SHOWING HEATER LOCATIONS



3	RPG	8-22-91	ADD REFERENCE DRAWINGS	PNB	GLB	MS
2	RPG	3-30-88	ADDED HTR. PEN. #, CODE CLASS, MADE CAD, & MADE UNIT SPECIFIC	KEC	MRA	GLB
1	LAD	9-17-86	CORRECT FOR PRISM	MRA	RME	GLB
REV.	BY	DATE	DESCRIPTION	CK'D	SUB	APP

HARDWARE: IBM 5085

SOFTWARE: CADAM

USER: ISICMP

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT
UNIT 1

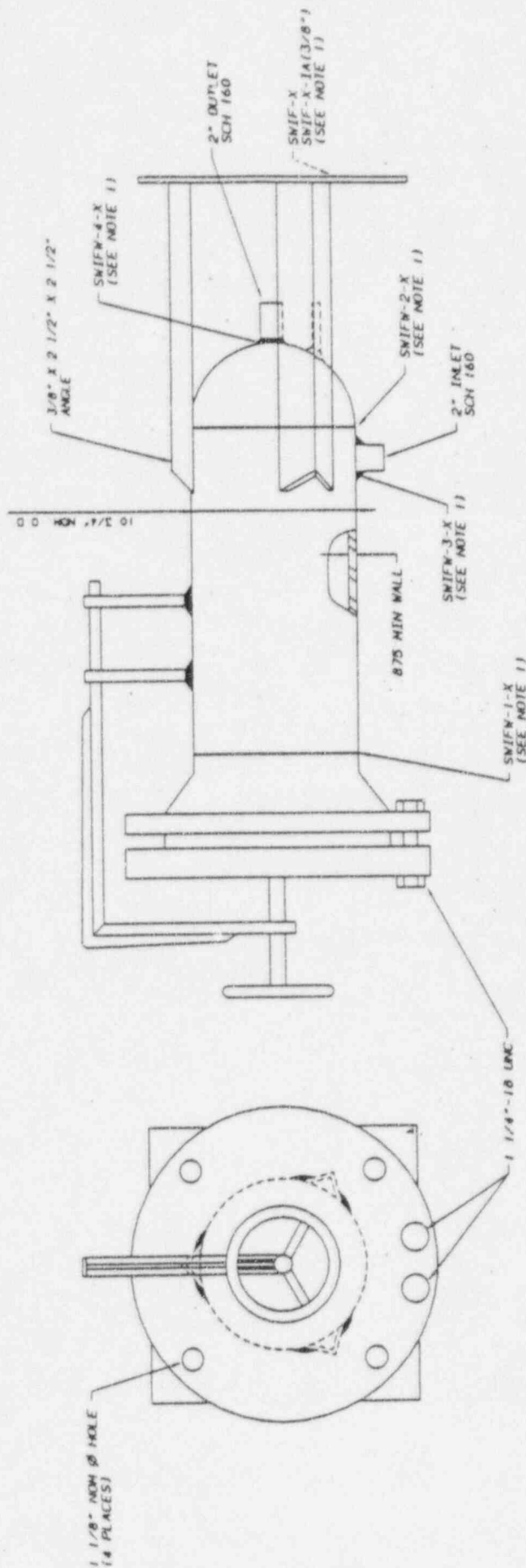
PRESSURIZER HEATER PENETRATIONS

DRAWN: KEV	SUBMITTED	APPROVED	SCALE NTS
DATE: 11-5-80	DATE: ---	DATE: ---	SHEET 1 OF 1 SHEET(S)
CHECKED: EDC		GLB	DRAWING NO.
DATE: ---			MSG-0006-A
			REV. 03

REFERENCE DRAWINGS
CONTRACT NO. 91534 (N2M-2-26)
DRAWING 1. 144-2023

ASME CC-2 (EQUIVALENT)

NOTE:
FOR PIPING SEE ISI-0448-C-30



1-SWIFISIS-1X

FILTER
A OR B

SUBSTITUTE AN A OR B FOR X TO SIGNIFY
WHICH FILTER IS EXAMINED. A DESIGNATES
THE FILTER BETWEEN VALVES 62-547 & 62-549
WHILE B DESIGNATES THE FILTER BETWEEN
VALVES 62-548 & 62-550

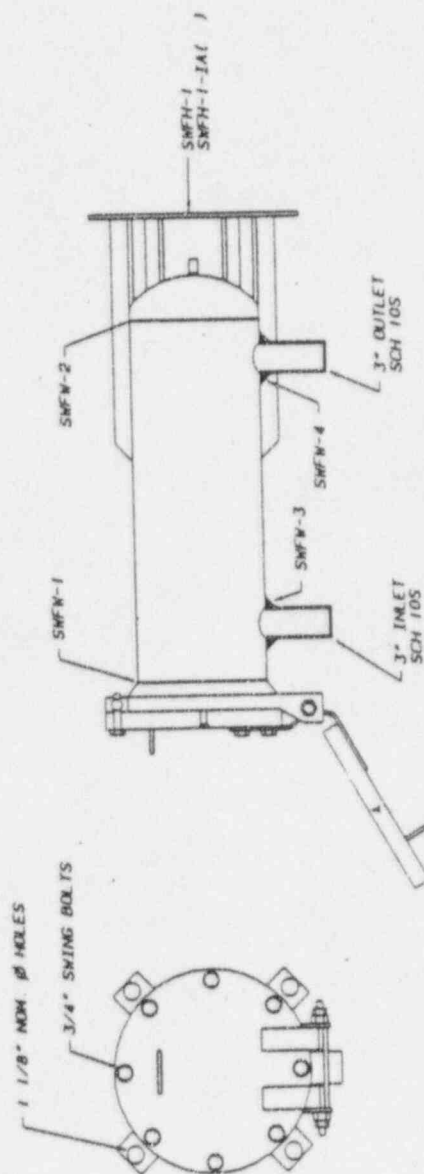
REV	BY	CREATED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEDOYAH NUCLEAR PLANT					
SEAL WATER INJECTION FILTER					
WELD AND SUPPORT LOCATIONS					
DESIGN	WPC	DATE	12-8-83	SCALE	NOT TO SCALE
CHECKED	WPC	APPROVED	WPC	CAD MANAGED DRAWING	REV
SUBMITTED	WPC	ISI-0456-C-01			100

REFERENCE DRAWINGS
CONTRACT NO. 91934 (N2M-2-26)
DRAWING NO. 51049

MATERIAL SPECIFICATIONS
VESSEL MATERIAL 304 STN. STL.

ASME CC-2 (EQUIVALENT)

NOTE:
FOR PIPING SEE ISI-0448-C-24 & -25



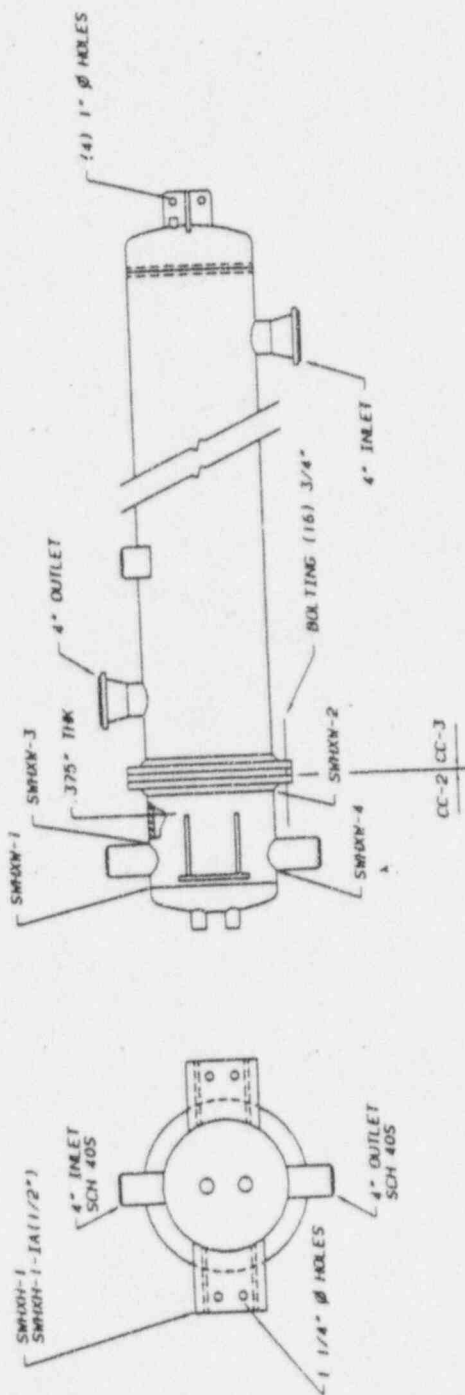
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
SEAL WATER FILTER					
WELD AND SUPPORT LOCATIONS					
DESIGN BY	DATE	DATE	DATE	SCALE	NOT TO SCALE
CHECKED	DATE	DATE	DATE	DATE	DATE
SUBMITTED	DATE	DATE	DATE	DATE	DATE
ISI-0458-C-01					

REFERENCE DRAWINGS
ATLAS INDAST MAN CO.
CONTRACT NO. 842686
DRAWING NO. D-2086-5

SHELL SIDE: ASME CC-3 (EQUIVALENT)
TUBE SIDE: ASME CC-2 (EQUIVALENT)

NOTES:

1. SHELL SIDE EXEMPT DUE TO 4" EXEMPTION
2. FOR PIPING SEE ISI-0448-C-25.



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
SEAL WATER HEAT EXCHANGER					
NEED AND SUPPORT LOCATIONS					
DRAWN	WVS	DATE	12/15/73	SCALE	NOT TO SCALE
CHECKED	WVS	APPROVED	WVS	CD	MAINTAINED DRAWING
SUBMITTED	WVS	ISI-0460-C-01			

REFERENCE DRAWINGS
CONTRACT NO. 92645
DRAWING NO. F-5662-2
C-6662-4

MATERIAL SPECIFICATIONS

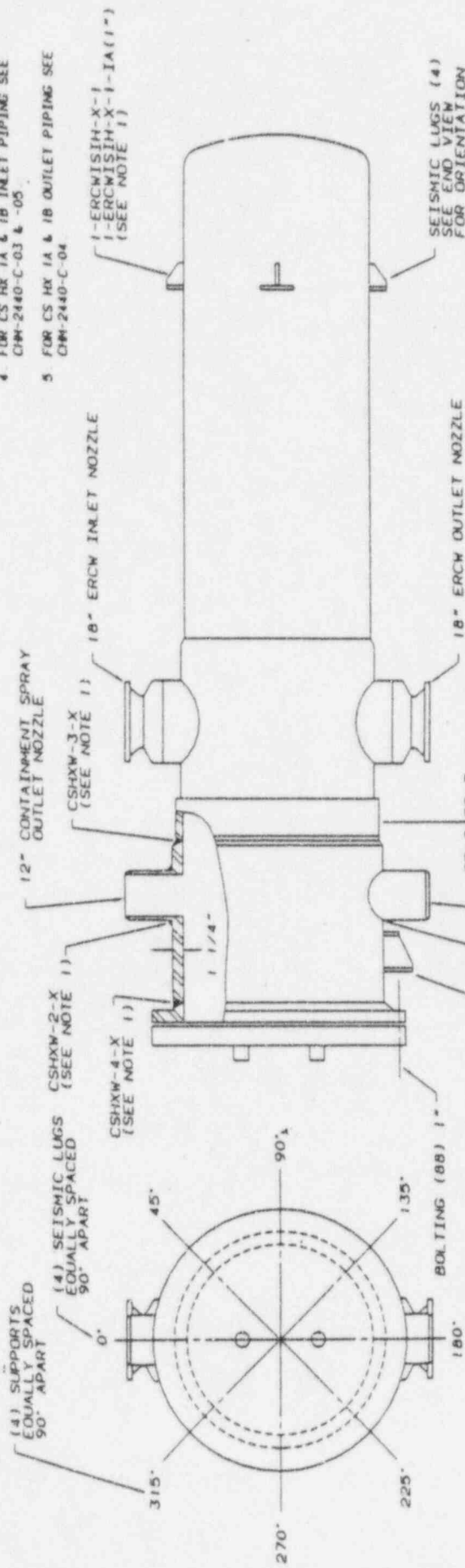
SHELL SA-515 GR. 70

CONTAINMENT SPRAY NOZZLES
SA-515 GR. 70 WITH TP 308 OVERLAY
3/4" THICKNESS INCLUDES 1/4"
OVERLAY ON THE I.D.

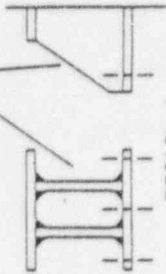
ASME CC-2 (EQUIVALENT) HEAD SIDE
ASME CC-3 (EQUIVALENT) SHELL SIDE

NOTES

1. SUBSTITUTE A OR B FOR X TO SIGNIFY WHICH HEAT EXCHANGER IS EXAMINED.
2. FOR CS HR 1A ERCW PIPING SEE ISI-0123-C-08
3. FOR CS HR 1B ERCW PIPING SEE ISI-0123-C-15
4. FOR CS HR 1A & 1B INLET PIPING SEE CWM-2440-C-03 & -05
5. FOR CS HR 1A & 1B OUTLET PIPING SEE CWM-2440-C-04



(4) SUPPORTS
CSHXW-1-X
CSHXW-1-1A (1")
(SEE NOTE 1)



DETAIL A

SEE END VIEW FOR ORIENTATION OF SUPPORTS

REV.	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY HEAT EXCHANGER					
WELD AND SUPPORT LOCATIONS					
DRAWN	RPG	DATE	12/16/73	SCALE	NOT TO SCALE
CHECKED	CSA	APPROVED	12/16/73	LD	UNFINISHED DRAWING
SUBMITTED	73				
ISI-0462-C-01					
00					

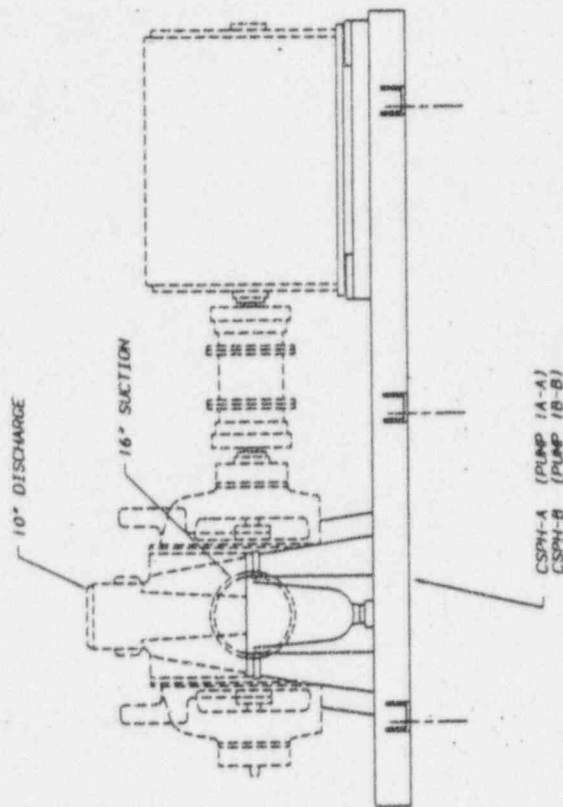
REFERENCE DRAWINGS

CONTRACT NO. 92646
DRAWING NO. 1-UE012-12 50-2
SE032X11-1

ASME CC-2 (EQUIVALENT)

NOTES:

1. FOR SUCTION PIPING SEE CHN-2440-C-01 & -02
2. FOR DISCHARGE PIPING SEE CHN-2440-C-03



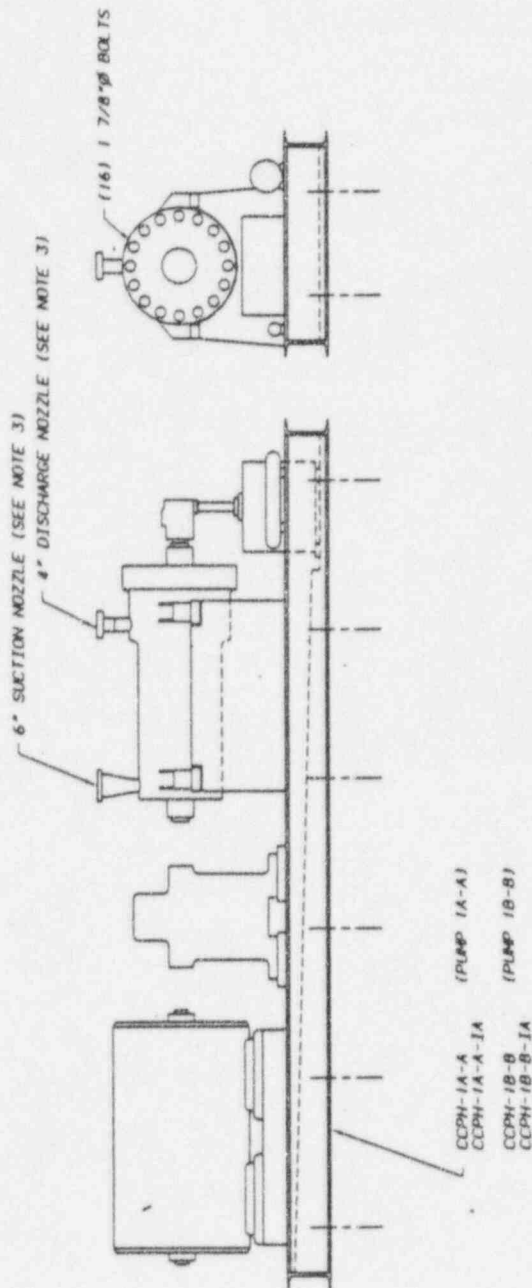
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEQUIOIA NUCLEAR PLANT					
UNIT 1					
CONTAINMENT SPRAY PUMP					
WELD AND SUPPORT LOCATIONS					
DESIGN	APP	DATE	12-18-78	SCALE	1/8" = 1'-0"
CHECKED	SPH	APPROVED	WJC	CO	MINI-MAX DRAWING
SUBMITTED	WJC	DATE	12-18-78	SCALE	1/8" = 1'-0"
ISI-0464-C-01					
00					

REFERENCE DRAWINGS
 CONTRACT NO. 91934
 DRAWING NO. FC-45619
 J-286-N
 B-9118

ASME CC-2 (EQUIVALENT)

NOTES

1. THE PUMP FEET ARE BOLTED TO A COMMON SUPPORT.
2. THE PUMP FEET ARE INTEGRALLY WELDED TO THE CASING.
3. NOZZLE WELDS SHOWN ON PIPING WELD LOCATION DRAWINGS.
4. FOR DISCHARGE PIPING SEE ISI-0448-C-17-37.
5. FOR SUCTION PIPING SEE ISI-0448-C-35 & -37.



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
CENTRIFUGAL CHARGING PUMP					
WELD AND SUPPORT LOCATIONS					
DATE	REV	BY	CHK	SCALE	NOT TO SCALE
12-16-55	1	WV	WV	1/4"	1/4"
CHECKED	WV	WV	WV	WV	WV
SUBMITTED	WV	WV	WV	WV	WV
ISI-0448-C-01					
00					

REFERENCE DRAWINGS

CONTRACT NO. 91934
DRAWING NO. FC-45648-3

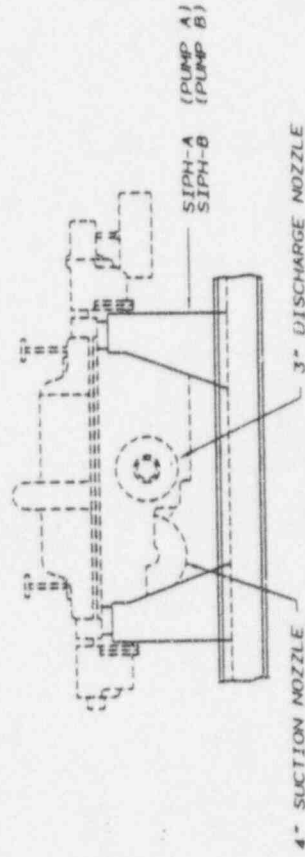
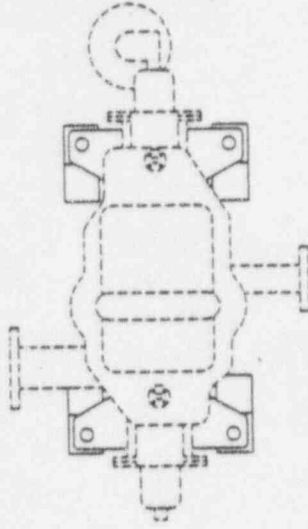
MATERIAL SPECIFICATIONS

PUMP CASING: ASTM A-351 CF8

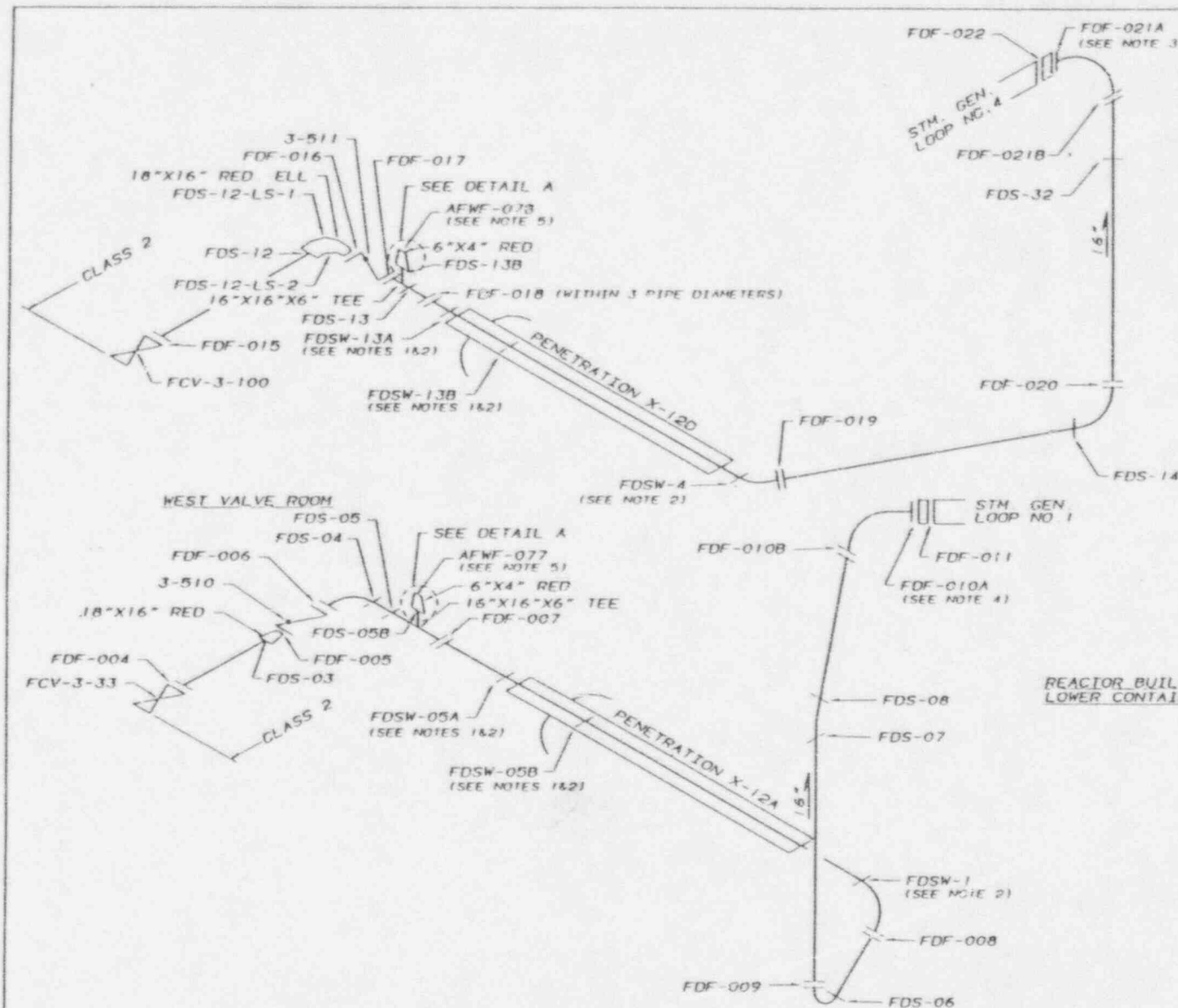
ASME CC-2 (EQUIVALENT)

NOTES

1. FOR SUCTION PIPING SEE
ISI-0448-C-38 & -39
2. FOR DISCHARGE PIPING SEE
ISI-0448-C-02 & -03



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 1					
SAFETY INJECTION PUMP					
WELD AND SUPPORT LOCATIONS					
ISSUED	RFB	DATE	12-8-75	SCALE	NAT TO SCALE
CHECKED	SPB	APPROVED	WHL	CAD	MAINTAINED DRAWING
SUBMITTED	WHL	ISI-0470-C-01			



REFERENCE DRAWINGS

47W331-1
NAVCO A-7408, A-7433 (AFW)
TUBE TURNS
CONTRACT NO. (71-92615)
DWG NO. 90 6146-01
DWG NO. 74229-02 0

MATERIAL SPECIFICATIONS

ASTM A-333 GR-1 SEAMLESS
18" SCH-80
16" SCH-80
18"x16" RED ELL WELDED
6" X 4" RED SCH 80

ASME CC-2 (EQUIVALENT)

NOTES

- PIPE TO FLUED HEAD WELD
- SHOP WELD BY TUBE TURNS
- WELD FDF-021 WAS REPLACED WITH FDF-021A SAME LOCATION U2C5
- WELD FDF-010 WAS REPLACED WITH FDF-010A SAME LOCATION U2C5
- WELDS AFW-077 AND AFW-078 ARE 4" WELDS EXAMINED AS AN AUGMENTED INSPECTION

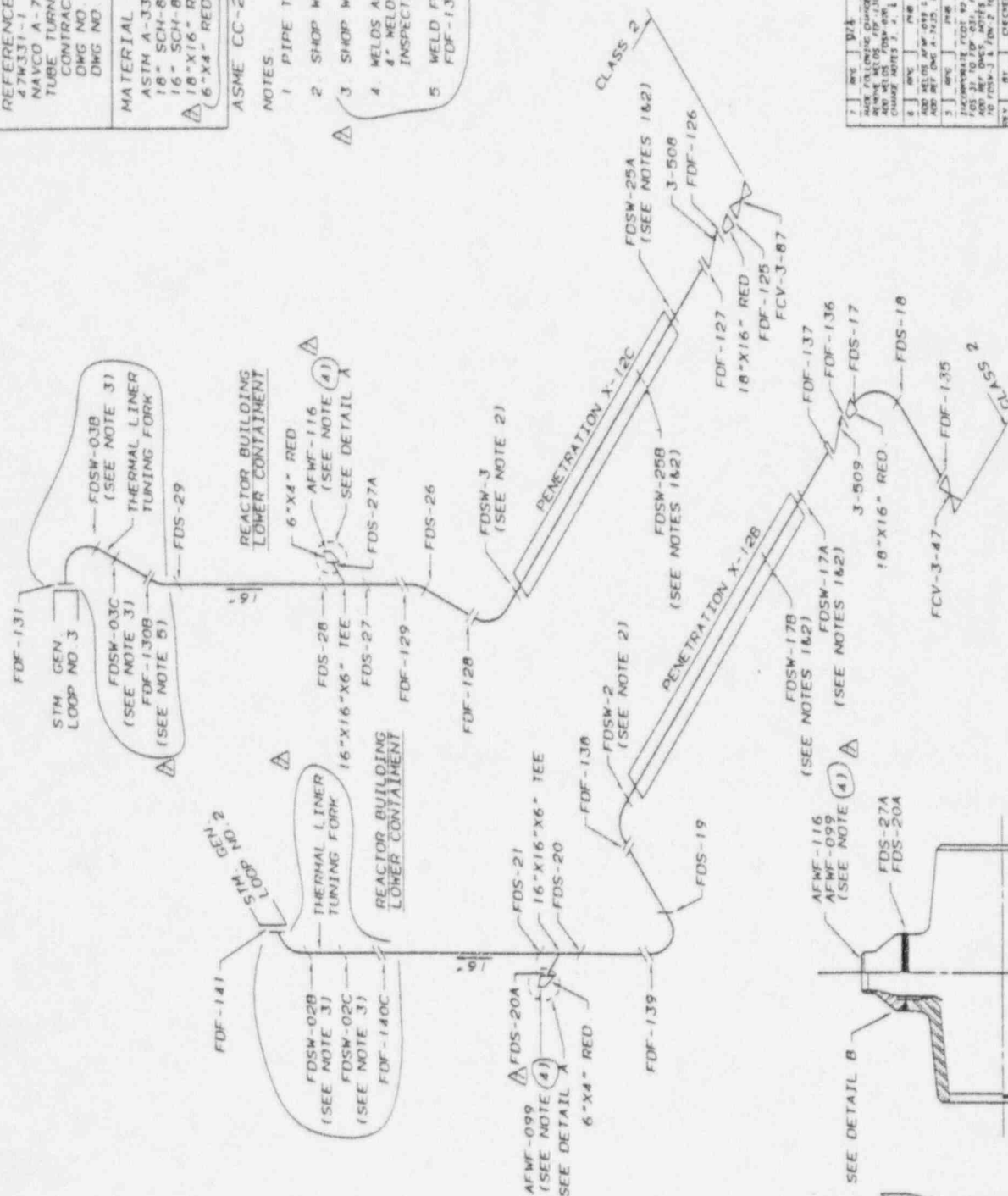
8	DEC	JCB	DEC	QLB	12-16-93
ADD REDUCER SPEC					
7	DEC	JCB	DEC	QLB	8-12-92
ADD WELDS AFW-077 & 078. ADD DETAIL 5. ADD THERMAL SLEEVES. ADD DET. DWG A-7433. & ADD NOTE 5					
6	DEC	JCB	DEC	QLB	11-18-92
INCORPORATE FDOT 92-07 BY CHANGING WELD NOS. FDF-021 TO FDF-021A. FDS-12 TO FDF-021B. FDF-010 TO FDF-010A. FDS-09 TO FDF-010B. ADD PEN TO 3. REV DWGS. ADIES 2 THRU 4. CORRECT WELD NOS. FDF-1 TO FDF-4 & FDS-1 TO FDS-4					
5	DEC	JCB	DEC	QLB	12-7-91
ADD RED ELL TO SPEC. CLARIFY LS WELD LOCATIONS. ADD NOTE 7 & PUT ON CAD					
4	DEC	JCB	DEC	QLB	3-23-88
ADDED WELDS 5 DRAWN ON CAD					
3	JAN	JCB	DEC	QLB	8-29-84
CORRECT DWG FOR DESIGN					
2	REV	EDC	DEC	QLB	5-11-83
ADD WELD NOS					
1	REV	EDC	DEC	QLB	3-5-81
ADD WELD NOS & CLASS DESIGNATION					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
FEEDWATER LOOPS 1&4					
WELD LOCATIONS					
DRAWN	DEC	DATE	SCALE NOT TO SCALE		
CHECKED	EDC	APPROVED	QLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC	CHM-2403-C-01			08

47WJ31-1
NAVCO A-7408. A-7435 (AFW)
TUBE TURNS
CONTRACT NO (71-92615)
DWG NO 90 6146-D1
DWG NO 74229-D2 0

ASTM A-333 GR-1 SEAMLESS
18" SCH-80
16" SCH-80
18"X18" RED ELL WELDED
6"X4" RED SCH 80

NOTES

- 1 PIPE TO FULLED HEAD WELD
- 2 SHOP WELD BY TUBE TURNS
- 3 SHOP WELD BY WESTINGHOUSE
- 4 WELDS AFNF-099 AND AFNF-116 ARE
4" WELDS EXAMINED AS AN AUGMENTED
INSPECTION
- 5 WELD FOS-30 REPLACED WITH
FDF-1308 DURING U2C6

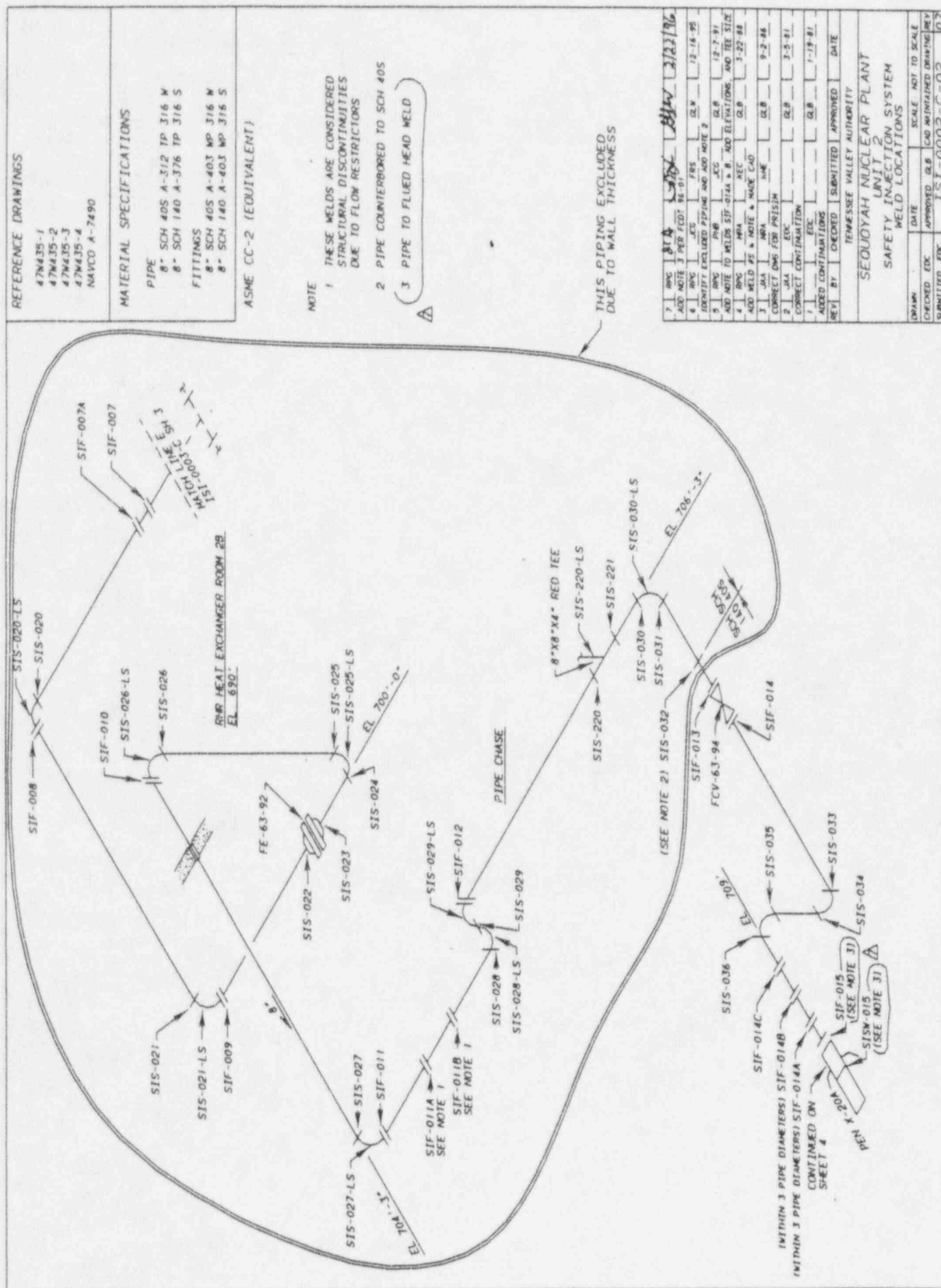


DETAILED B

DETAIL A

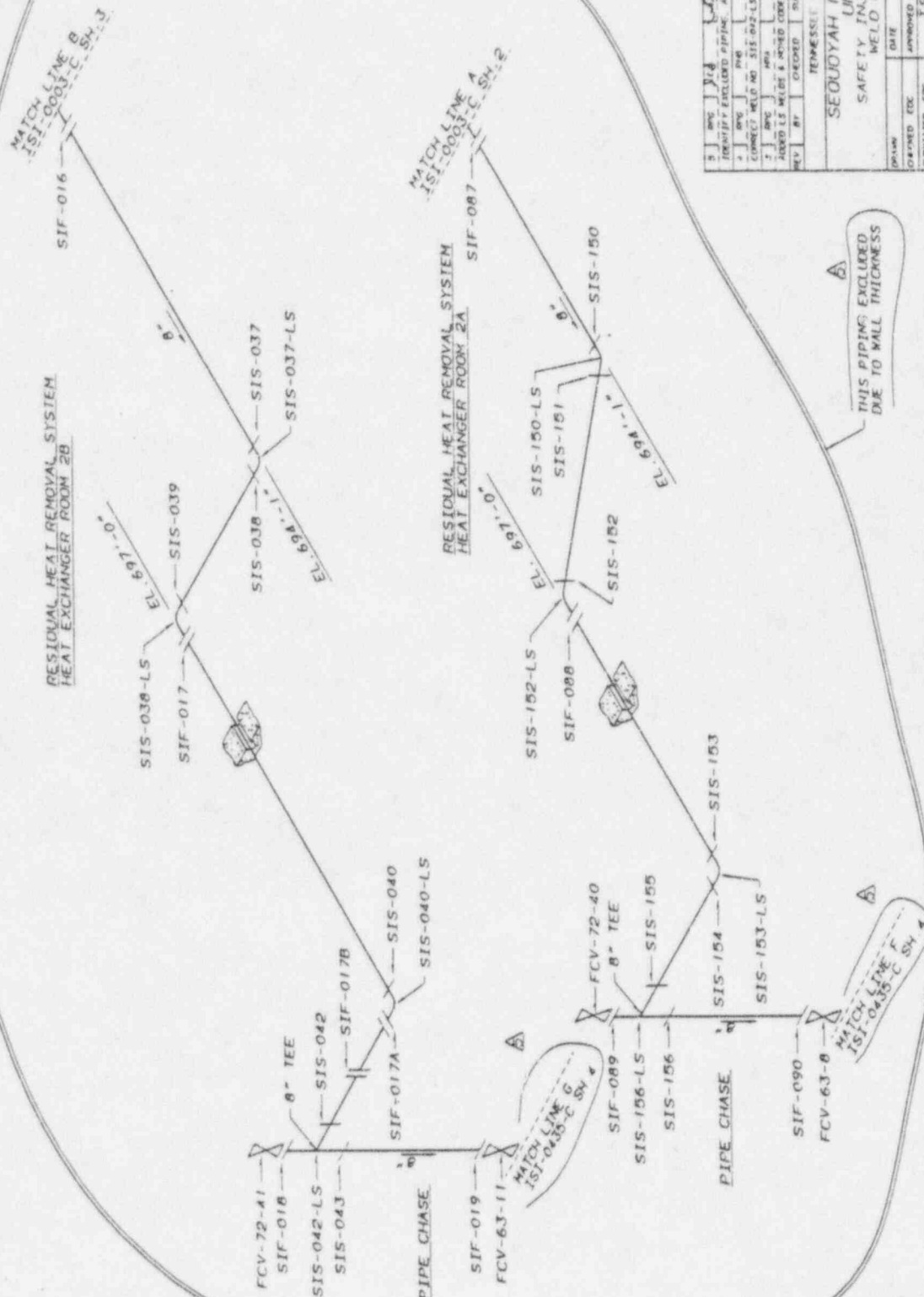
16"X16"X6" RED YEE
WITH 6"X4" RED THERMAL SLV

[illegible]

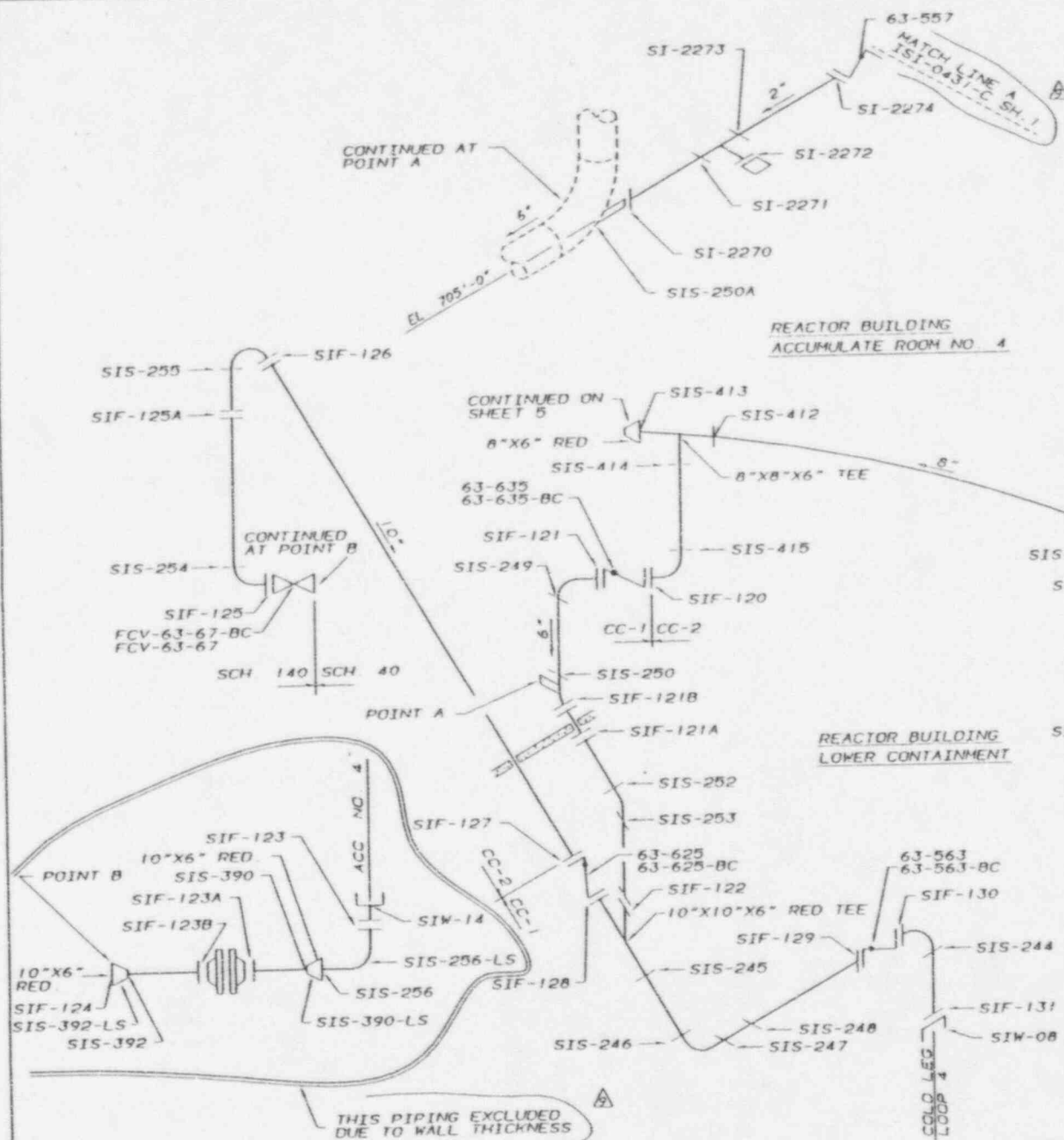


7	RVC	814	JCS	FBS	Q2W	12-16-95
ADD NOTE 3 PER FCD 98-91						
4	RVC	JCS	Q2W			
IDENTITY EXCLUDED PIPELINE AND NOTE 2						
5	RVC	PHB	JCS	Q2B		12-7-91
ADD NOTE TO DEWINS SIF-014A * 8 ADD ELEVATIONS AND TEE SIZE						
4	RVC	HRA	KEC	Q2B		5-22-88
ADD WELD FS IN NOTE * MAKE CAD						
3	JAA	HRA	JAA	Q2B		9-2-88
CORRECT DMS FOR PMSIN						
2	JAA	ENC	Q2B			3-5-81
CORRECT CONTINUATION						
1	ENC	Q2B				1-19-81
ADD CONTINUATIONS						
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE	
TENNESSEE VALLEY AUTHORITY						
SEOUJOYAH NUCLEAR PLANT						
UNIT 2						
SAFETY INJECTION SYSTEM						
WELD LOCATIONS						
DRYMAN	DATE	SCALE	NOT TO SCALE			
CHECKED	ENC	APPROVED	Q2B	CAD MAINTAINED DRAWING	REV	
UNLIMITED	ENC	ISSUED	0003-0-0			03

SME CC-2 (EQUIVALENT)



DATE	BY	RECORD	SUBMITTED	APPROVED	DATE
10-16-88					
10-17-88					
10-18-88					
10-19-88					
10-20-88					
10-21-88					
10-22-88					
10-23-88					
10-24-88					
10-25-88					
10-26-88					
10-27-88					
10-28-88					
10-29-88					
10-30-88					
11-01-88					
11-02-88					
11-03-88					
11-04-88					
11-05-88					
11-06-88					
11-07-88					
11-08-88					
11-09-88					
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12-24-88					
12-25-88					
12-26-88					
12-27-88					
12-28-88					
12-29-88					
12-30-88					
1989					
1990					
1991					
1992					
1993					
1994					
1995					
1996					
1997					
1998					
1999					
2000					
2001					



REFERENCE DRAWINGS

47W435-11 THRU 16
NAVCO A-7540
2-SI-511-1W

SPECIFICATIONS

ASME CC-1 (EQUIVALENT)

PIPE
STNL STL SEAML -ASTM A-376 TP-316
10" SCH 140
6" SCH 160
STNL STL SEAML -ASTM A-376 TP-304
2" SCH 160

FITTINGS
STNL STL SEAML -ASTM A-403 TP-316
10" SCH 140
6" SCH 160
STNL STL SEAML -ASTM A-182 F-304
2" 6000 # S W

ASME CC-2 (EQUIVALENT)

PIPE
STNL STL SEAML -ASTM A-376 TP-316
8" SCH 140 10" SCH 40
6" SCH 160 6" SCH 40
10" SCH 140

FITTINGS
STNL STL SEAML -ASTM A-403 TP-316
10" SCH 40 (WELDED)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1	WJC	WJC	WJC	WJC	11-15-84
2	WJC	WJC	WJC	WJC	12-1-84
3	WJC	WJC	WJC	WJC	12-1-84
4	WJC	WJC	WJC	WJC	12-1-84
5	WJC	WJC	WJC	WJC	12-1-84
6	WJC	WJC	WJC	WJC	12-1-84
7	WJC	WJC	WJC	WJC	12-1-84
8	WJC	WJC	WJC	WJC	12-1-84
9	WJC	WJC	WJC	WJC	12-1-84
10	WJC	WJC	WJC	WJC	12-1-84
11	WJC	WJC	WJC	WJC	12-1-84
12	WJC	WJC	WJC	WJC	12-1-84
13	WJC	WJC	WJC	WJC	12-1-84
14	WJC	WJC	WJC	WJC	12-1-84
15	WJC	WJC	WJC	WJC	12-1-84
16	WJC	WJC	WJC	WJC	12-1-84
17	WJC	WJC	WJC	WJC	12-1-84
18	WJC	WJC	WJC	WJC	12-1-84
19	WJC	WJC	WJC	WJC	12-1-84
20	WJC	WJC	WJC	WJC	12-1-84

SEQUOYAH NUCLEAR PLANT

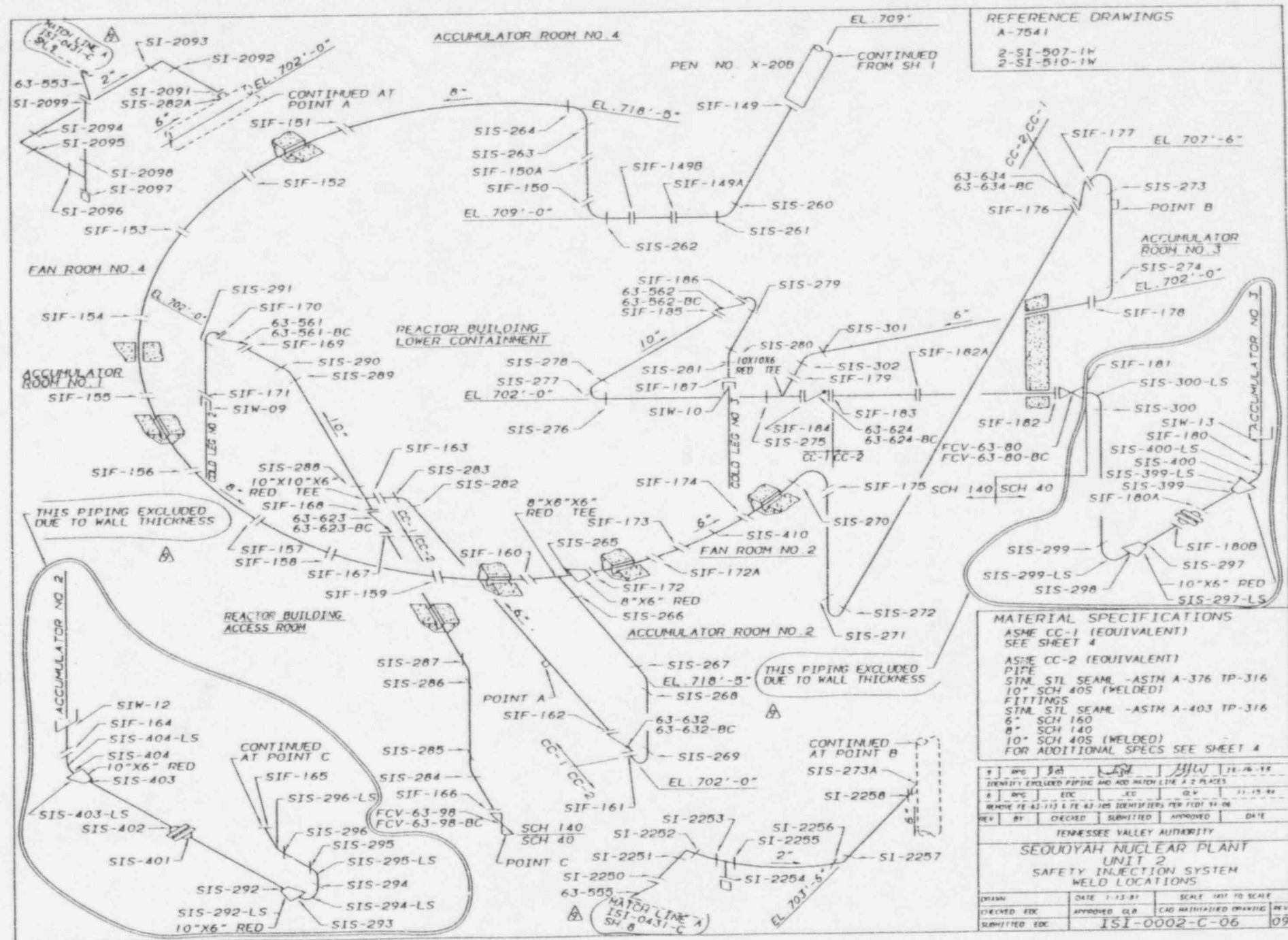
UNIT 2

SAFETY INJECTION SYSTEM (LOOP 4)

WELD LOCATIONS

DATE	SCALE	100 TO SCALE
11-15-84	100 TO SCALE	100 TO SCALE
11-15-84	100 TO SCALE	100 TO SCALE
11-15-84	100 TO SCALE	100 TO SCALE

ISI-0002-C-04 09



REFERENCE DRAWINGS

A-7541
2-SI-507-1W
2-SI-510-1W

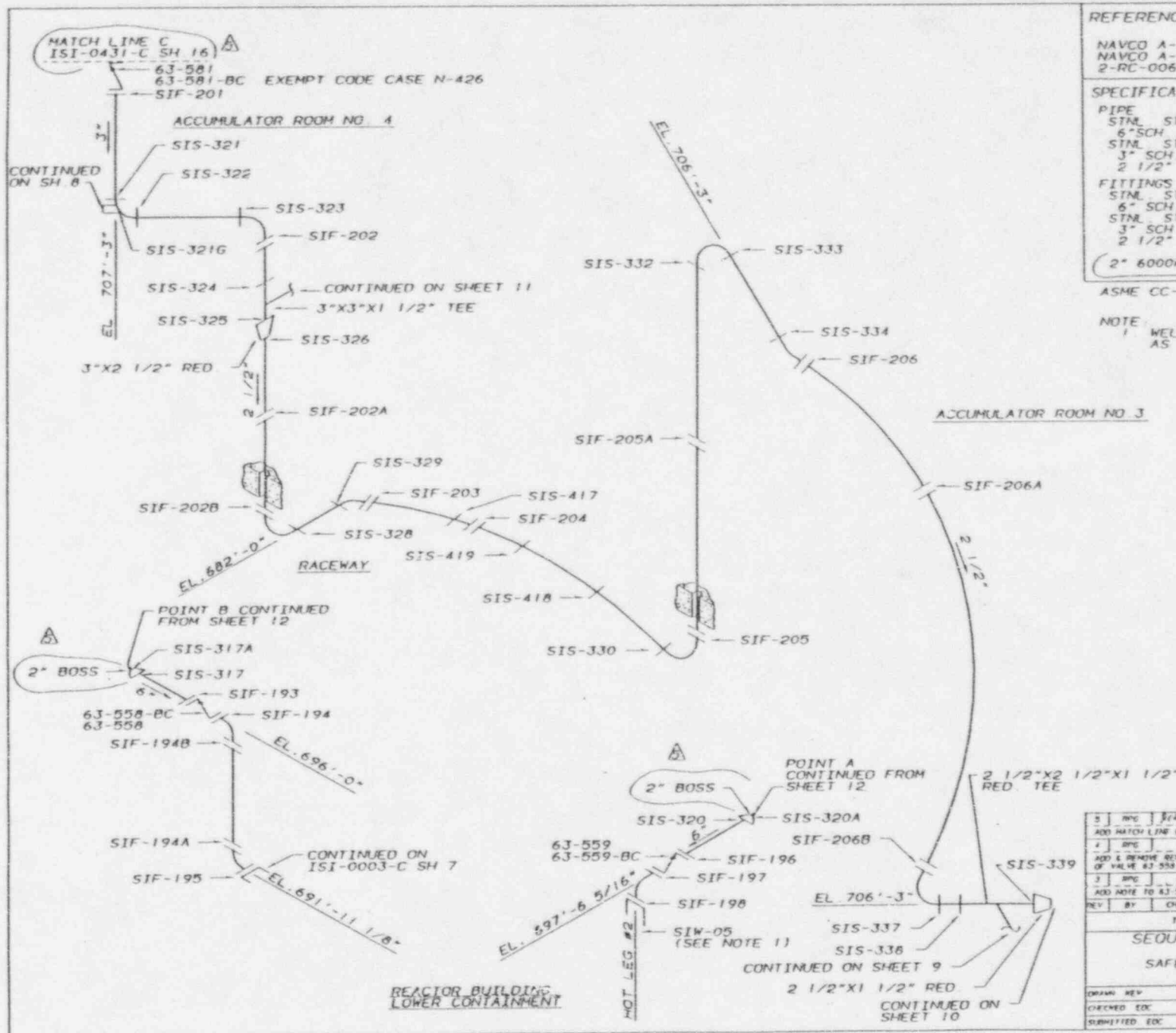
MATERIAL SPECIFICATIONS

ASME CC-1 (EQUIVALENT)
SEE SHEET 4
ASME CC-2 (EQUIVALENT)
PIPE
STN. STL SEAM - ASTM A-376 TP-316
10" SCH 40S (WELDED)
FITTINGS
STN. STL SEAM - ASTM A-403 TP-316
6" SCH 160
8" SCH 140
10" SCH 40S (WELDED)
FOR ADDITIONAL SPECS SEE SHEET 4

REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1	WPG	EDC	EDC	GLB	11-15-94
2	WPG	EDC	EDC	GLB	11-15-94
3	WPG	EDC	EDC	GLB	11-15-94
4	WPG	EDC	EDC	GLB	11-15-94
5	WPG	EDC	EDC	GLB	11-15-94
6	WPG	EDC	EDC	GLB	11-15-94
7	WPG	EDC	EDC	GLB	11-15-94
8	WPG	EDC	EDC	GLB	11-15-94
9	WPG	EDC	EDC	GLB	11-15-94
10	WPG	EDC	EDC	GLB	11-15-94
11	WPG	EDC	EDC	GLB	11-15-94
12	WPG	EDC	EDC	GLB	11-15-94
13	WPG	EDC	EDC	GLB	11-15-94
14	WPG	EDC	EDC	GLB	11-15-94
15	WPG	EDC	EDC	GLB	11-15-94
16	WPG	EDC	EDC	GLB	11-15-94
17	WPG	EDC	EDC	GLB	11-15-94
18	WPG	EDC	EDC	GLB	11-15-94
19	WPG	EDC	EDC	GLB	11-15-94
20	WPG	EDC	EDC	GLB	11-15-94

SEQUOYAH NUCLEAR PLANT
UNIT 2
SAFETY INJECTION SYSTEM
WELD LOCATIONS

DATE	SCALE	REV
1-15-91	1:1	1
1-15-91	1:1	2
1-15-91	1:1	3
1-15-91	1:1	4
1-15-91	1:1	5
1-15-91	1:1	6
1-15-91	1:1	7
1-15-91	1:1	8
1-15-91	1:1	9
1-15-91	1:1	10
1-15-91	1:1	11
1-15-91	1:1	12
1-15-91	1:1	13
1-15-91	1:1	14
1-15-91	1:1	15
1-15-91	1:1	16
1-15-91	1:1	17
1-15-91	1:1	18
1-15-91	1:1	19
1-15-91	1:1	20



REFERENCE DRAWINGS

NAVCO A-7542
NAVCO A-7543
2-RC-006W

SPECIFICATIONS:

PIPE
STN. STL. SEAML -ASTM A-376 TP-316
6" SCH 160
STN. STL. SEAML -ASTM A-376 TP-304
3" SCH 160
2 1/2" SCH 160

FITTINGS
STN. STL. SEAML -ASTM A-403 WP-316
6" SCH 160
STN. STL. SEAML -ASTM A-403 WP-304
3" SCH 160
2 1/2" SCH 160

2" 6000# S.W. BOSS SS A182 F304

ASME CC-1 (EQUIVALENT)

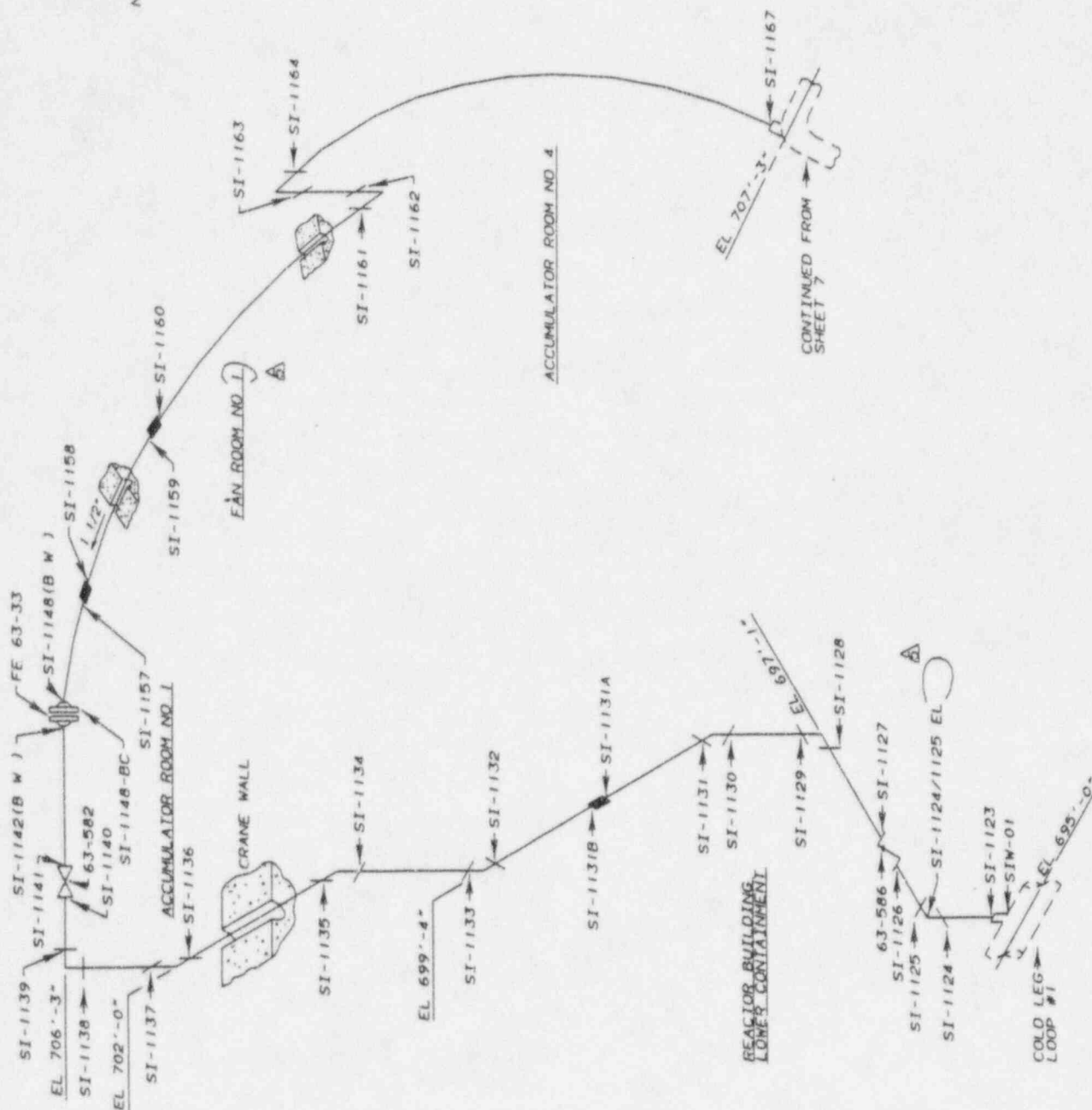
NOTE:
1. WELD SIW-05 IS SAME WELD
AS 95S ON 2-RC-006W

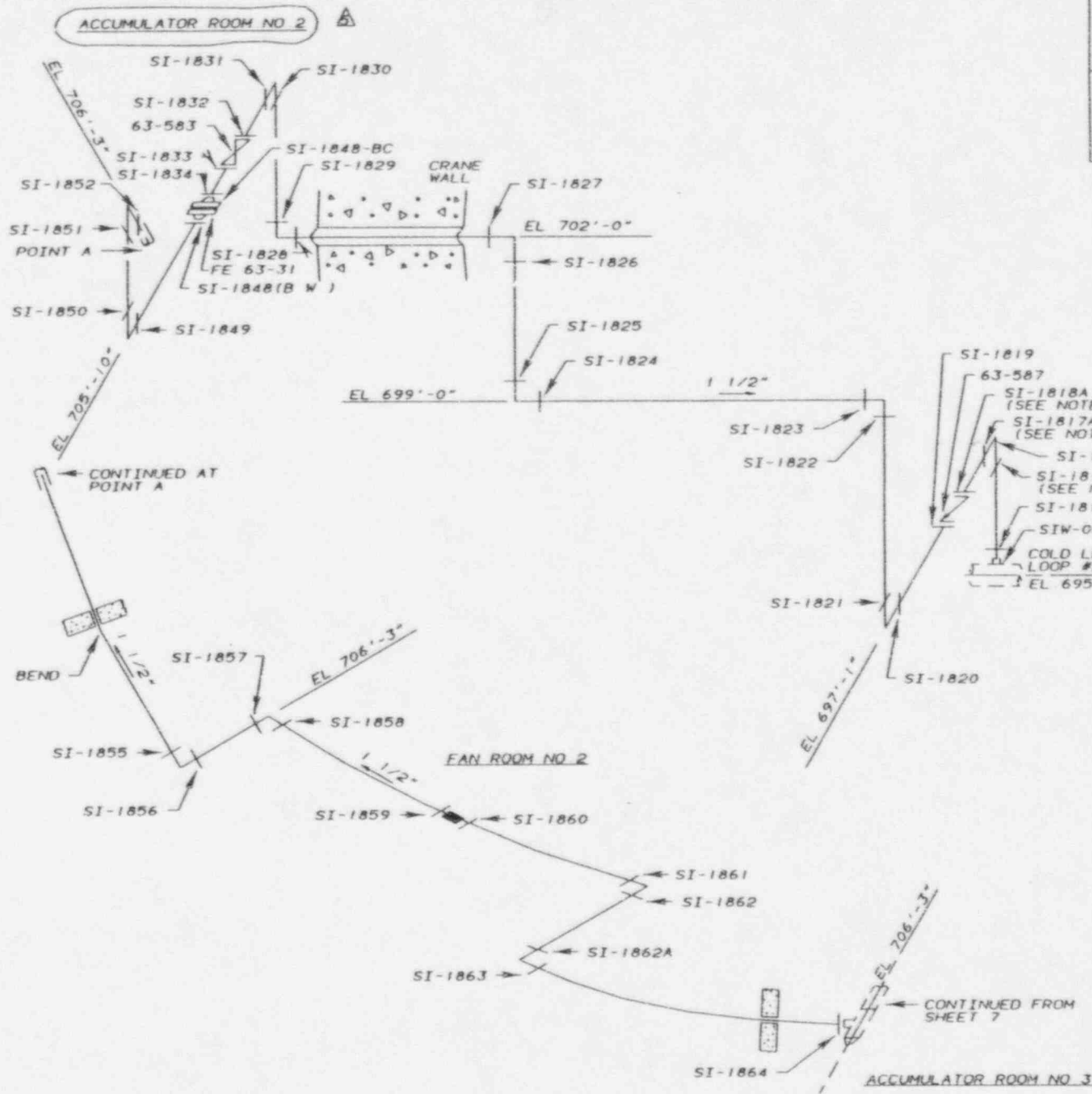
5	WPC	SEA	SEA	SEA	12-8-95
ADD MATCH LINE C, AND 2" BOSS & MATERIAL SPECIFICATION					
4	WPC	SEA	SEA	SEA	11-18-92
ADD & REMOVE REF. DIMS. ADD NOTE 1 TO SIW-05, CORRECT POSITION OF VALVE 82 558, AND MAKE CAD					
3	WPC	SEA	SEA	SEA	11-25-91
ADD NOTE TO 83 581-BC					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
SAFETY INJECTION SYSTEM					
WELD LOCATIONS					
DRAWN	REV	DATE	SCALE: NOT TO SCALE		
CHECKED	EDC	APPROVED	CLB	CAD MAINTAINED	DRANKS
SUBMITTED	EDC	ISI-0002-C-07			

47W435-11
47W435-12
47W435-13
2-SI-500-1

NOTES

- 1 FOR SPECIFICATIONS SEE SHEET 9
2 B W DESIGNATES A BUTT WELD

[illegible]

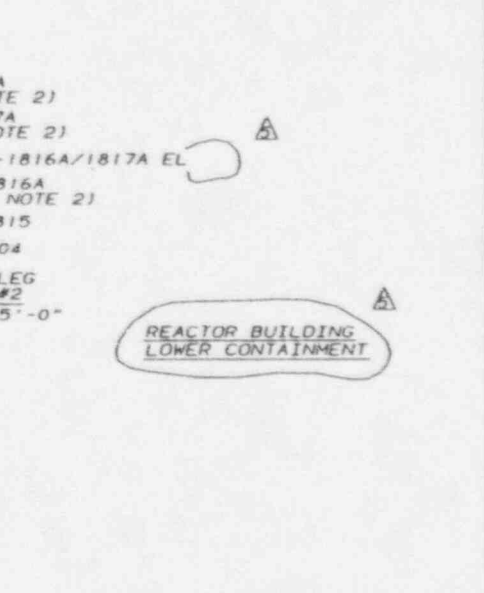


REFERENCE DRAWINGS
 47W435-14
 2-SI-501-1W
 2-SI-502-2W

SPECIFICATIONS
 PIPE
 1 1/2" SCH 160 SEAMLESS S/S A376 TP304
 FITTINGS
 1 1/2" 6000# S W S/S A182 F304

ASME CC-1 (EQUIVALENT)

NOTES
 1 B W DESIGNATES A BUTT WELD
 2 REPLACED WELDS SI-1816, -1817, -1818 WITH SI-1816A, -1817A, -1818A RESPECTIVELY, DURING U2C5 OUTAGE

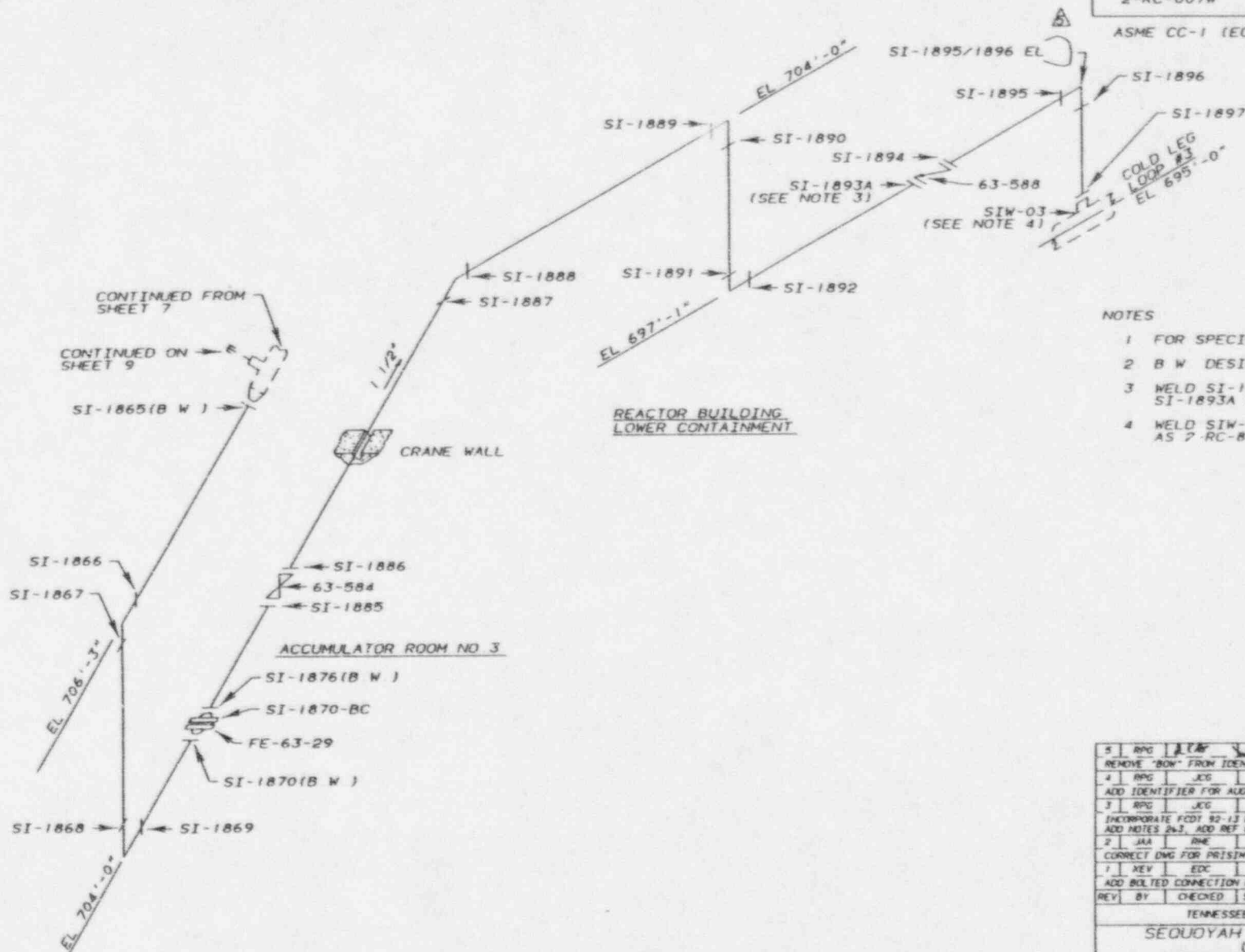


5	RPG	ELC	WLD	12/27/96
REMOVE "BOW" FROM ID & ADD ROOM NAMES PER FOOT 96-04				
4	RPG	JCG	FRS	12-16-95
ADD IDENTIFIER FOR AUGMENTED EXAM				
3	RPG	JCG	EDC	11/18/92
CHANGE WELDS SI-1816, -1817, -1818 TO SI-1816A, -1817A, -1818A. ADD NOTE 2. & MADE CAD				
2	JAA	RHE	NRA	8-26-88
CORRECT DWG FOR PRISM				
1	KEY	EDC		11-8-83
ADDED BUTTED CONNECTION NO				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEDOYAH NUCLEAR PLANT				
UNIT 2				
SAFETY INJECTION SYSTEM				
WELD LOCATIONS				
DRAWN	KEY	DATE	1-8-81	SCALE NOT TO SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED	EDC			ISI-0002-C-09 05

REFERENCE DRAWINGS

47W435-11
47W435-15
2-SI-502-1W
2-RC-007W

ASME CC-1 (EQUIVALENT)



NOTES

- 1 FOR SPECIFICATIONS SEE SHEET 9
- 2 B W DESIGNATES BUTT WELDS
- 3 WELD SI-1893 WAS REPLACED WITH SI-1893A DURING U2C5 OUTAGE
- 4 WELD SIW-03 IS SAME WELD AS 2-RC-805 ON 2-RC-007W

5	RPG	JCG	FRS	GLV	12-18-95
REMOVE "BW" FROM IDENTIFIER PER FCDT 96-04					
4	RPG	JCG	FRS	GLV	12-18-95
ADD IDENTIFIER FOR AUGMENTED EXAM					
3	RPG	JCG	EDC	GLB	11-18-92
INCORPORATE FCDT 92-13 BY CHANGING SI-1893 TO SI-1893A. ADD NOTES 2&3, ADD REF DWG, & MADE CAD					
2	JAA	RNE	JRA	GLB	8-26-86
CORRECT DNG FOR PRISM					
1	XEV	EDC		GLB	11-8-83
ADD BOLTED CONNECTION NO					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
SAFETY INJECTION SYSTEM					
WELD LOCATIONS					
DRAWN	REV	DATE	1-12-81	SCALE	NOT TO SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC			ISI-0002-C-10	05

REFERENCE DRAWINGS

2-SI-503-1W

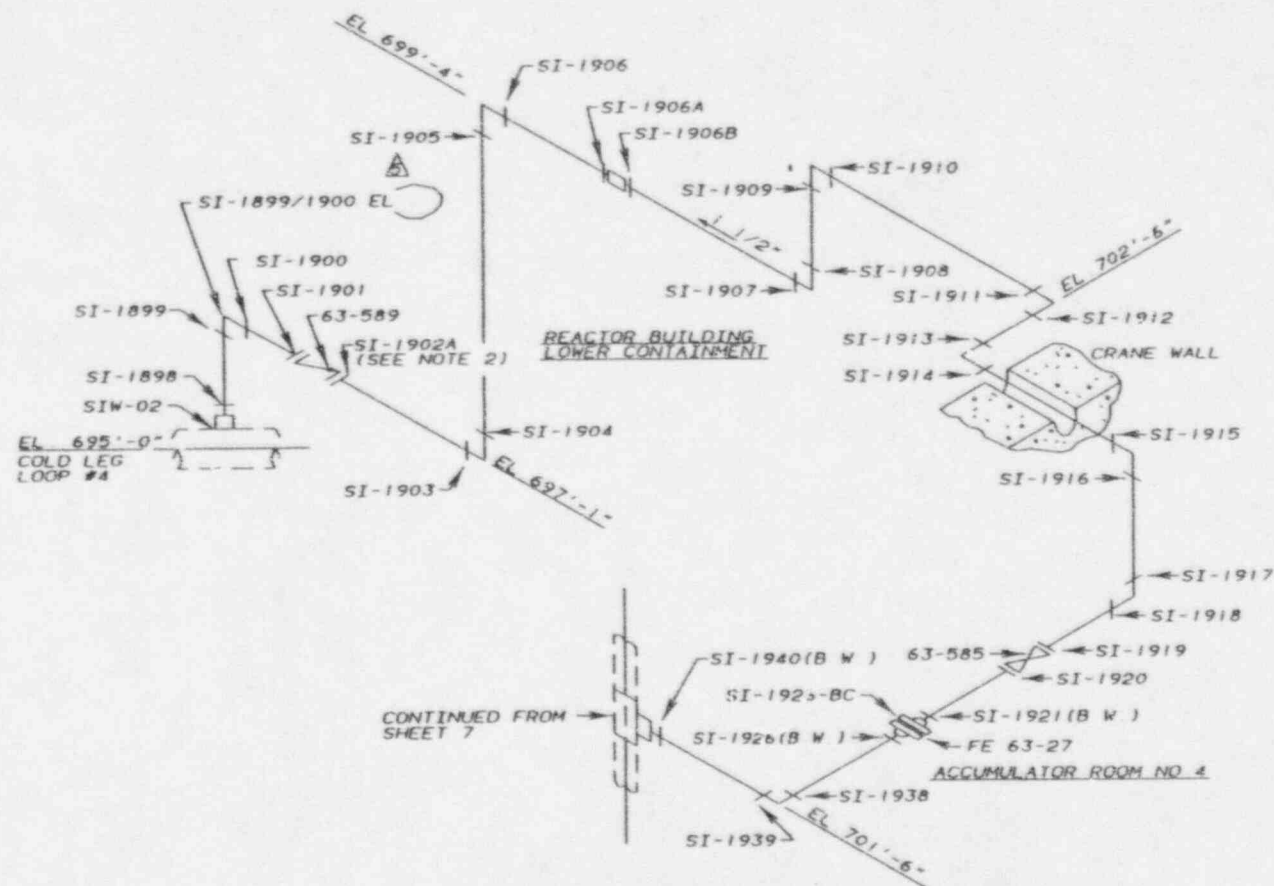
MATERIAL SPECIFICATIONS

SEE SHEET 9

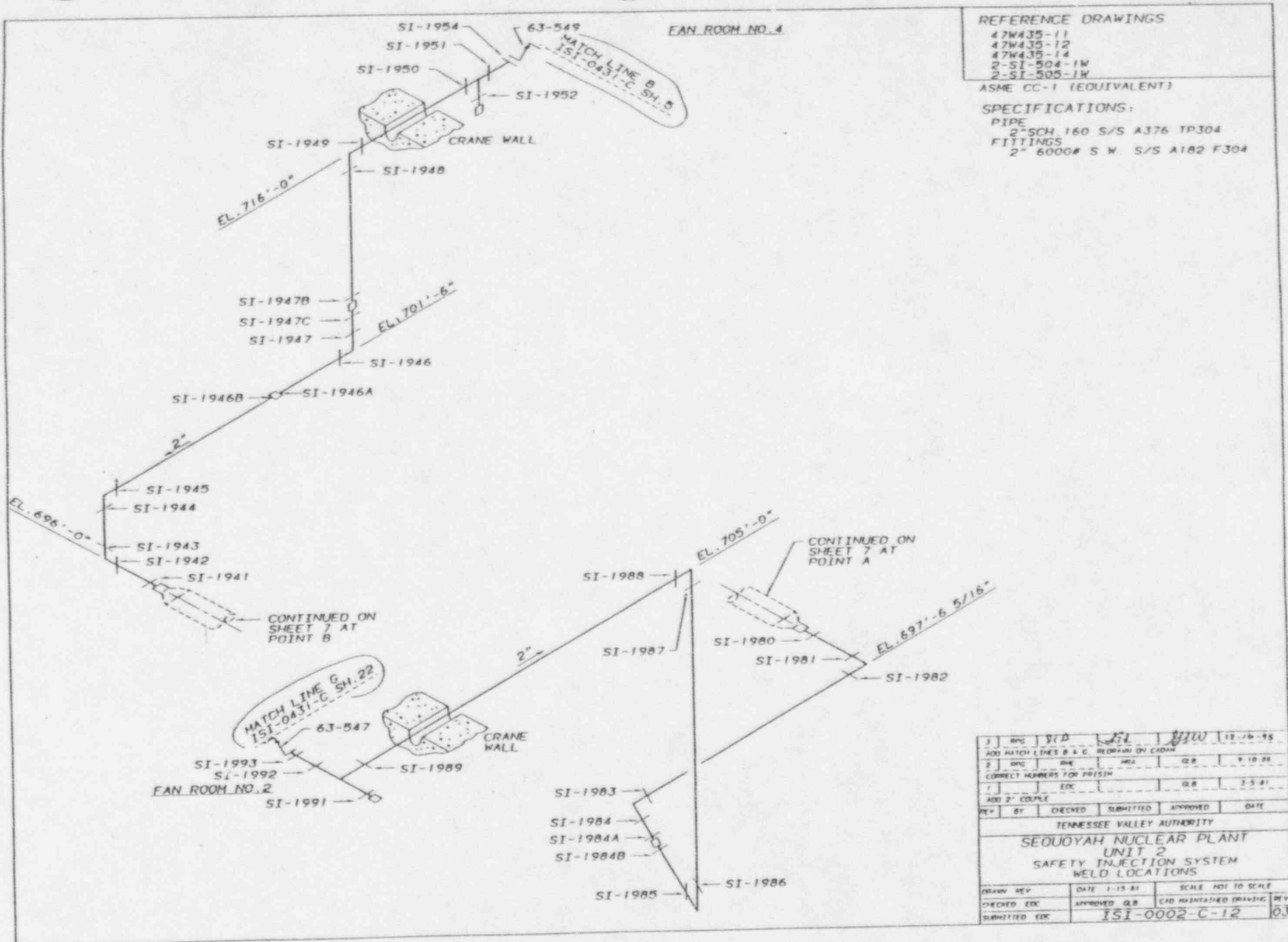
ASME CC-1 (EQUIVALENT)

NOTES

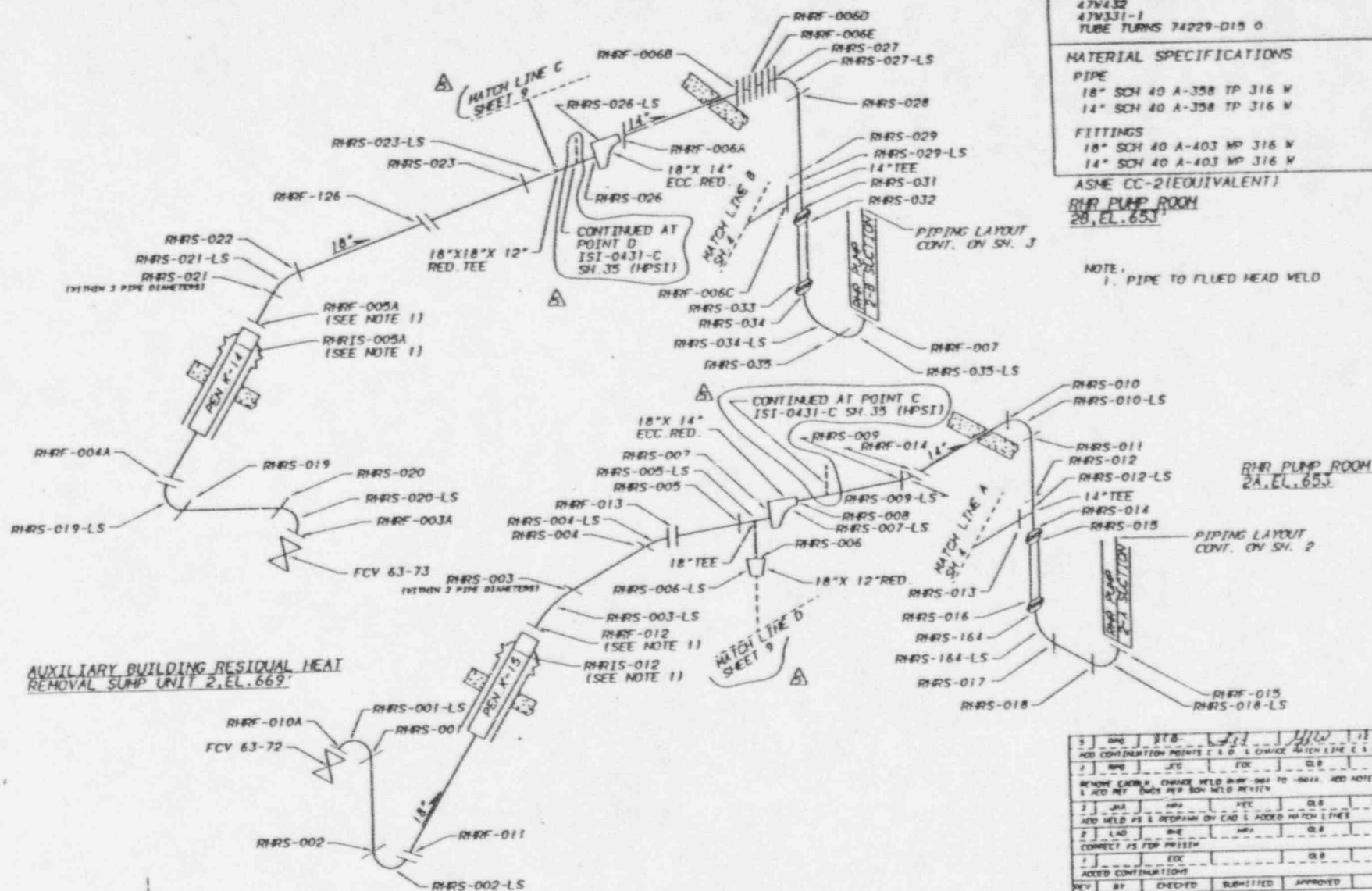
- 1 B W DESIGNATES BUTT WELDS
- 2 WELD SI-1902 WAS REPLACED WITH WELD SI-1902A SAME LOCATION DURING U2C5



5	RPG	RLA	WHL	YAW	2-23-96
REMOVE "BOW" FROM IDENTIFIER PER FCDT 96-04					
4	RPG	JCG	FRS	GLB	12-16-95
ADD IDENTIFIER FOR AUGMENTED EXAM					
3	RPG	PHB	JCG	GLB	11-18-92
INCORPORATE FCDT 92-13, REMOVE REF DNG, ADD NOTE 2, & MAKE CAD					
2	JAA	RHE	MRA	GLB	4-10-88
CORRECT #5 FOR PRISM					
1	KEY	EDC		GLB	11-8-83
ADD BOLTED CONNECTION NO.					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
SAFETY INJECTION SYSTEM					
WELD LOCATIONS					
DRAWN	KEY	DATE	1-12-81	SCALE	NOT TO SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED	DRAWING REV
SUBMITTED	EDC			ISI-0002-C-11	05



3	RNC	YTD	12-10-95	12-10-95
ADD MATCH LINES B & C. REWORK ON CAD				
2	RNC	ONE	ONE	9-10-88
CORRECT NUMBERS FOR DESIGN				
1	EDC		ONE	3-5-81
ADD 2" COUPLE				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
SAFETY INJECTION SYSTEM				
WELD LOCATIONS				
DRAWN BY	DATE	1-15-81	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED	Q.B.	CAD MAINTAINED DRAWING	REV
SUBMITTED EDC	ISI-0002-C-12			03



REFERENCE DRAWING

NAVED A-7433
47W432
47W331-1
TUBE TURNS 74229-D15 0

MATERIAL SPECIFICATIONS

PIPE

18\" SCH 40 A-358 TP 316 W
14\" SCH 40 A-358 TP 316 W

FITTINGS

18\" SCH 40 A-403 WP 316 W
14\" SCH 40 A-403 WP 316 W

ASME CC-2(EQUIVALENT)

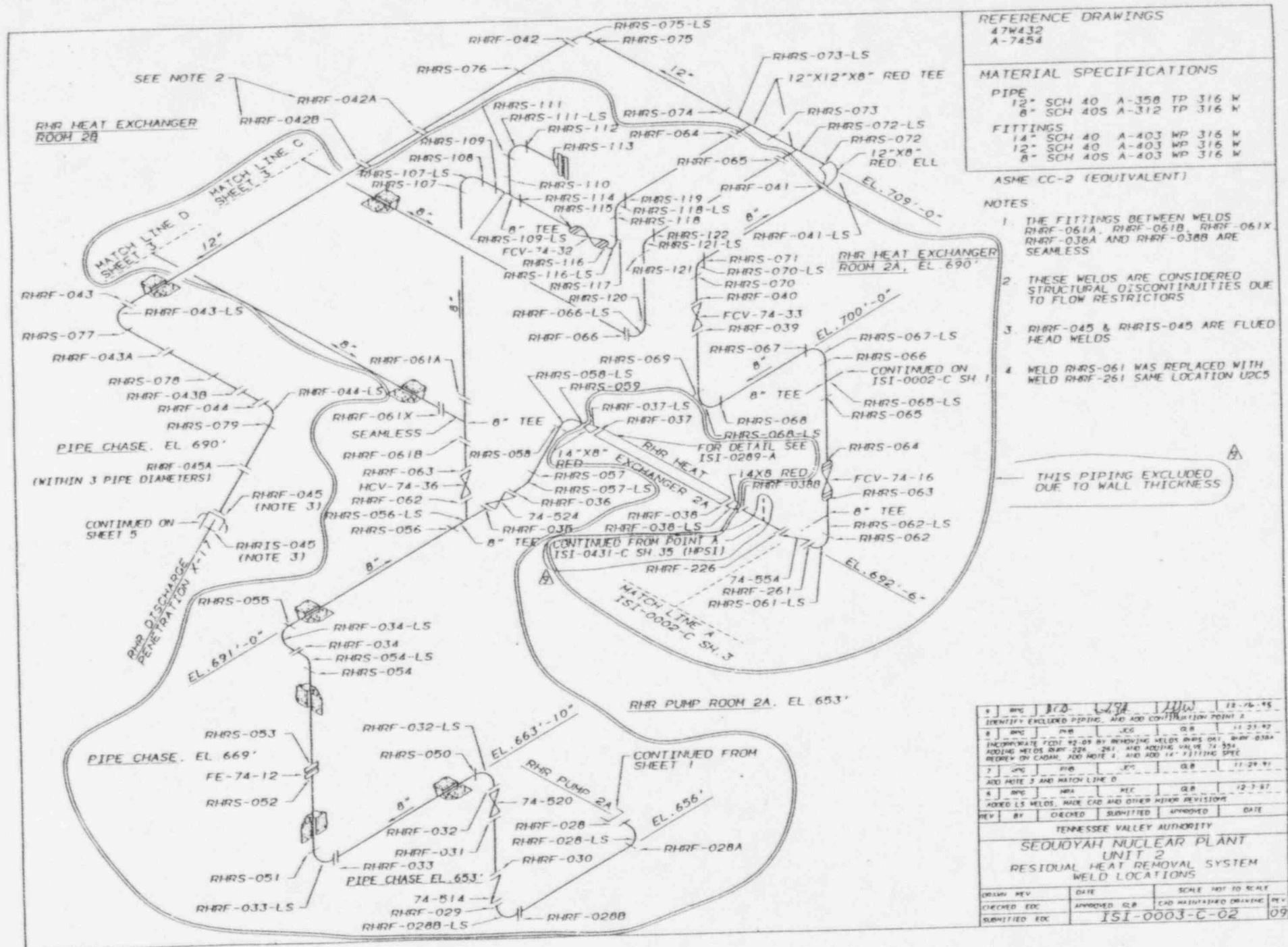
RHR PUMP ROOM
20, EL. 653

NOTE:
1. PIPE TO FLUED HEAD WELD

RHR PUMP ROOM
2A, EL. 653

AUXILIARY BUILDING RESIDUAL HEAT
REMOVAL SUMP UNIT 2, EL. 669

5	ENG	STB	1/11	11-16-95
ADD CONTRIBUTION POINTS C & D. CHANGE MATCH LINE C & D TO SH 3				
1	ENG	JFC	FOK	CLB
REMOVE CABLE. CHANGE WELD IN SH 001 TO SH 001. ADD NOTE				
1. ADD WELD IN SH 001 PER SH 001 REV 1				
2	JNA	HRB	PEC	CLB
ADD WELD IN SH 001 ON CAD & ADD MATCH LINES				
2	LAD	HRB	HRB	CLB
CORRECT PS FOR POSITION				
1		EDC		CLB
ADDED CONTRIBUTIONS				
REV	BY	CHECKED	SUBMITTED	APPROVED
DATE				
TENNESSEE VALLEY AUTHORITY				
SEOUJOYAH NUCLEAR PLANT				
UNIT 2				
RESIDUAL HEAT REMOVAL				
WELD LOCATIONS				
DESIGN	DATE	SCALE: NOT TO SCALE		
CHECKED EDC	APPROVED CLB	CAD MAINTAINED DRAWING REV.		
SUBMITTED EDC	ISI-0003-C-01			05



47W4J2
NAWCD A-7494

PIPE
2" SCH 10S A-312 TP 316 S

00000

14- SCH 40 A-403 MP 316 W

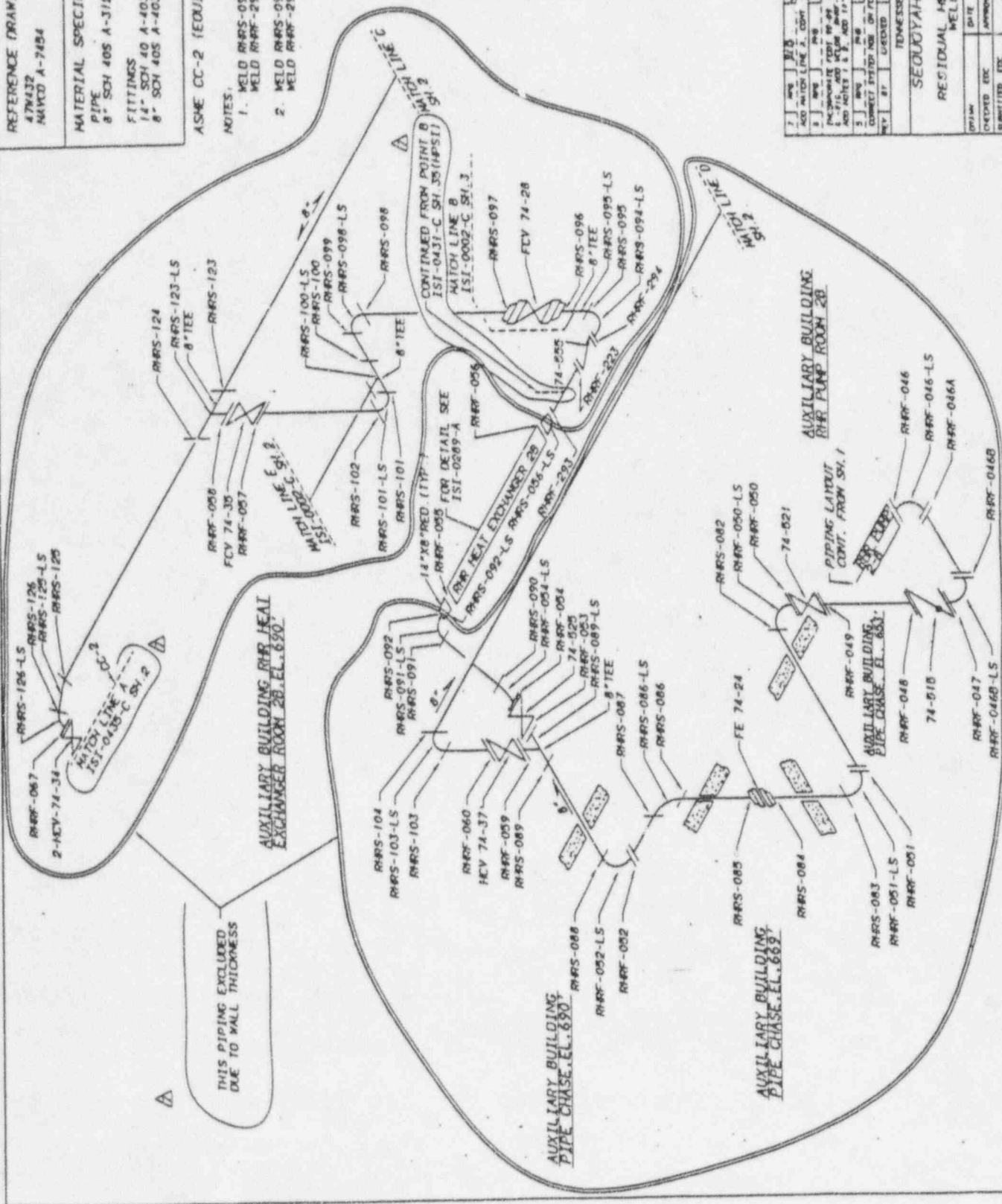
8" SQH 405 A-403 KP 316 W

NOTES:

1. 1000

2. WELD R445-093 WAS REPLACED WITH
WELD R445F-293 SAME LOCATION U2C5.

ASME CC-2 (EQUIVALENT)

[illegible]

REFERENCE DRAWINGS

NAVCO A-7453, A-7493
47W-72 SERIES
47W331-1
74229-CJ.0

MATERIAL SPECIFICATIONS

PIPE

STNL. STL. WELDED-ASTM A-358 CL-1 TP-316
14" SCH. 40

FITTINGS

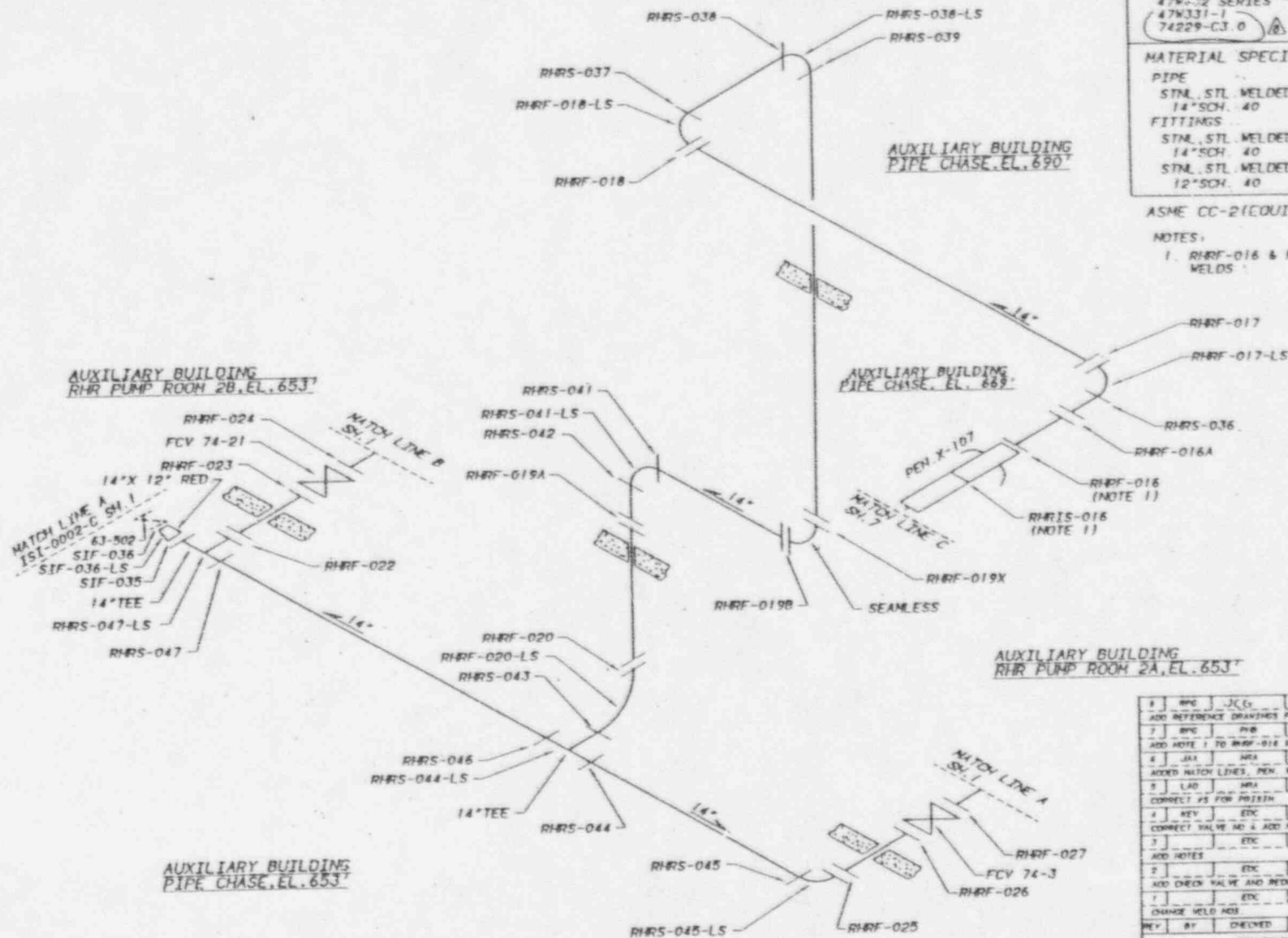
STNL. STL. WELDED-ASTM A-403 TP-316W
14" SCH. 40

STNL. STL. WELDED-ASTM A-403 WP-316W
12" SCH. 40

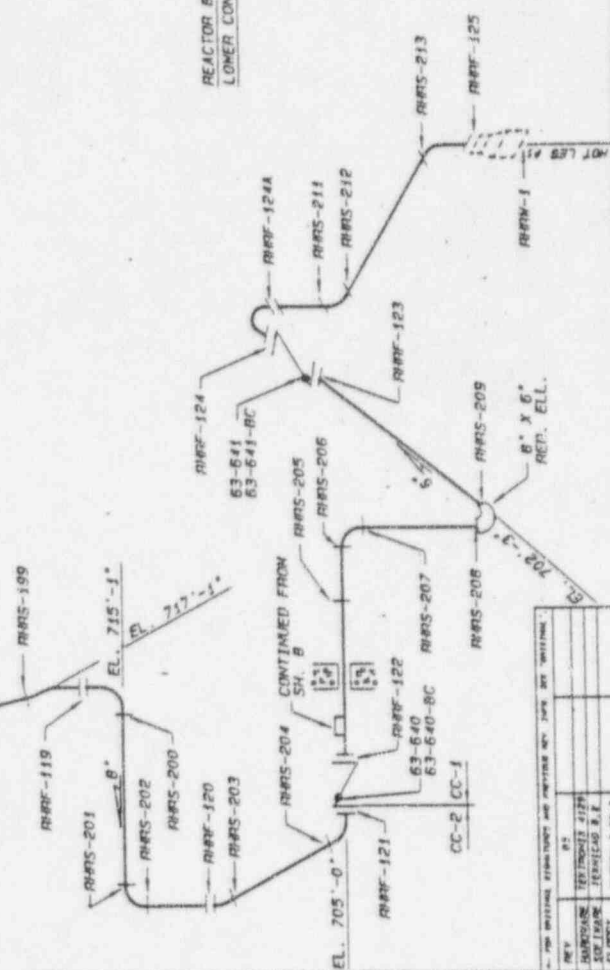
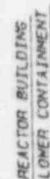
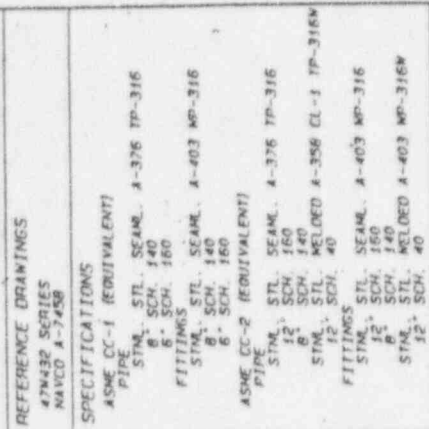
ASME CC-2(EQUIVALENT)

NOTES:

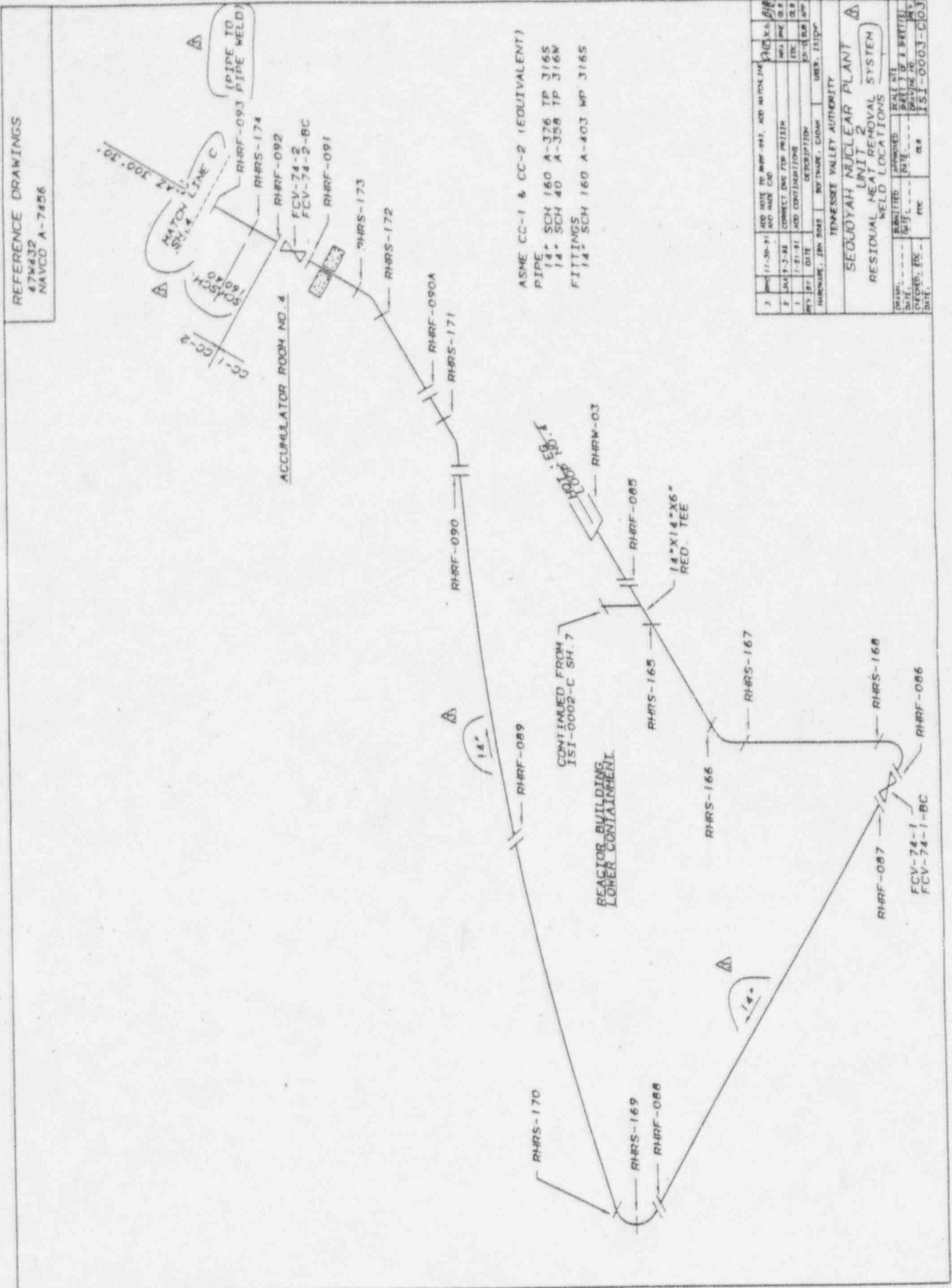
1. RHRF-016 & RHRIS-016 ARE FLUED HEAD WELDS



1	WPC	JCG	10/11/92	1/4/92
ADD REFERENCE DRAWINGS PER BOB WELD REVIEW				
2	WPC	JCG	DLB	11-30-91
ADD NOTE 1 TO RHRF-016 & RHRIS-016				
3	JAX	WPC	REC	DLB
ADDED MATCH LINES, PEN. WELD, HONED REF. CHAM. & SPECS. & HAD. CAP.				
4	LAD	WPC	WPC	DLB
CORRECT YS FOR POSITION				
5	REV	ETC	DLB	2-1-92
CORRECT VALVE NO. & ADD MATCH LINE				
6	REV	ETC	DLB	2-5-91
ADD NOTES				
7	REV	ETC	DLB	1-30-91
ADD CHECK VALVE AND REDUCER, CORRECT WELD NOS.				
8	REV	ETC	DLB	1-15-91
CHANGE WELD NOS.				
REV	BY	CHECKED	SUBMITTED	APPROVED
DATE				
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 2				
RESIDUAL HEAT REMOVAL SYSTEM				
WELD LOCATIONS				
DESIGN. REV	DATE	SCALE. R/S	CADIAN/ISSUE	
CHECKED. EDC	APPROVED. DLB	PIET	4 OF 8	REV
SUBMITTED. EDC			ISI-0003-CD8	

[illegible]

REFERENCE DRAWINGS
47W432
NAVCO A-7456



DATE	11-20-91	TIME	1500	BY	W. J. B. / J. B. / J. B.
TO	1-21-91	FROM	1-21-91	BY	W. J. B. / J. B. / J. B.
SUBJECT	CORRECT ONE FOR #22222				
DESCRIPTION	AND CONTINUATIONS				
REMARKS	1-21-91				
DATE	11-20-91	TIME	1500	BY	W. J. B. / J. B. / J. B.
TO	1-21-91	FROM	1-21-91	BY	W. J. B. / J. B. / J. B.
SUBJECT	CORRECT ONE FOR #22222				
DESCRIPTION	AND CONTINUATIONS				
REMARKS	1-21-91				
DATE	11-20-91	TIME	1500	BY	W. J. B. / J. B. / J. B.
TO	1-21-91	FROM	1-21-91	BY	W. J. B. / J. B. / J. B.
SUBJECT	CORRECT ONE FOR #22222				
DESCRIPTION	AND CONTINUATIONS				
REMARKS	1-21-91				

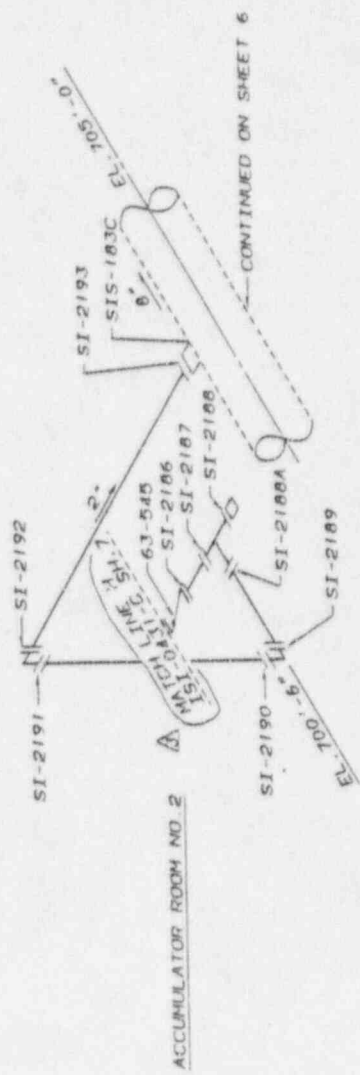
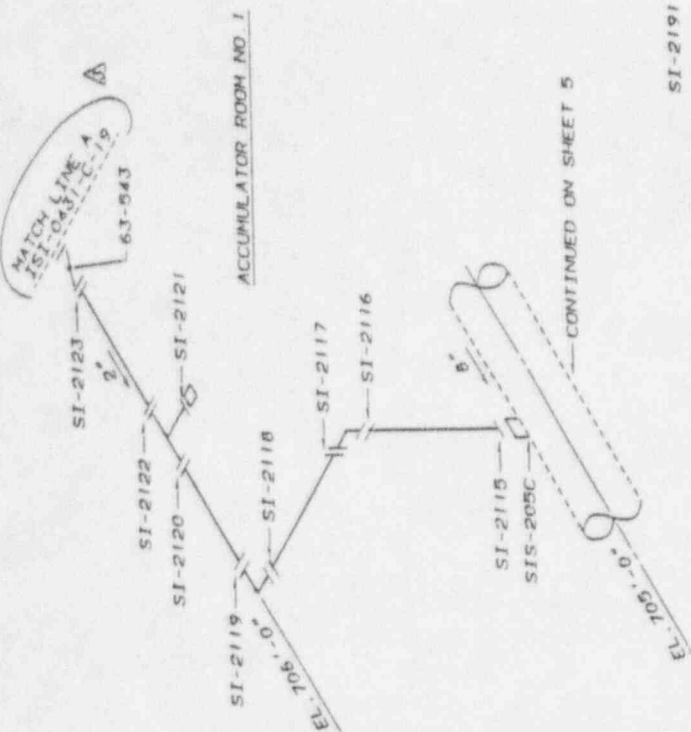
REFERENCE DRAWINGS

47M435-11
47M435-12
47M435-13
47M435-14
2-SI-508-1W
2-SI-509-1W

PIPE SPECIFICATIONS

PIPE SCH 160 S/S SEAMLESS A176 1P304
FITTINGS 2" 6000# SN S/S A182 F304

ASME CC-1 (EQUIVALENT)



1	REV	11/2	12/16/83
2	ADD MATCH LINES 1, 2 AND RECORD ON 1	0.8	4 20 27
3	REV	11/2	0.8
4	CHANGE IDENTIFIERS TO SI & MAKE CAD	0.8	4 12 28
5	LAD	11/2	0.8
6	CORRECT FOR PUSIN	11/2	0.8
7	BY	CHECKED	DATE
8	BY	SUBMITTED	DATE
TENNESSEE VALLEY AUTHORITY			
SECOYAH NUCLEAR PLANT			
UNIT 2			
RESIDUAL HEAT REMOVAL SYSTEM			
WELD LOCATIONS			
DESIGN	REV	DATE	SCALE
CHECKED	ENG	11/13/81	NOT TO SCALE
SUBMITTED	DOC	11/13/81	1/4" = 1'-0"
ISI-0003-C-08			

REFERENCE DRAWINGS

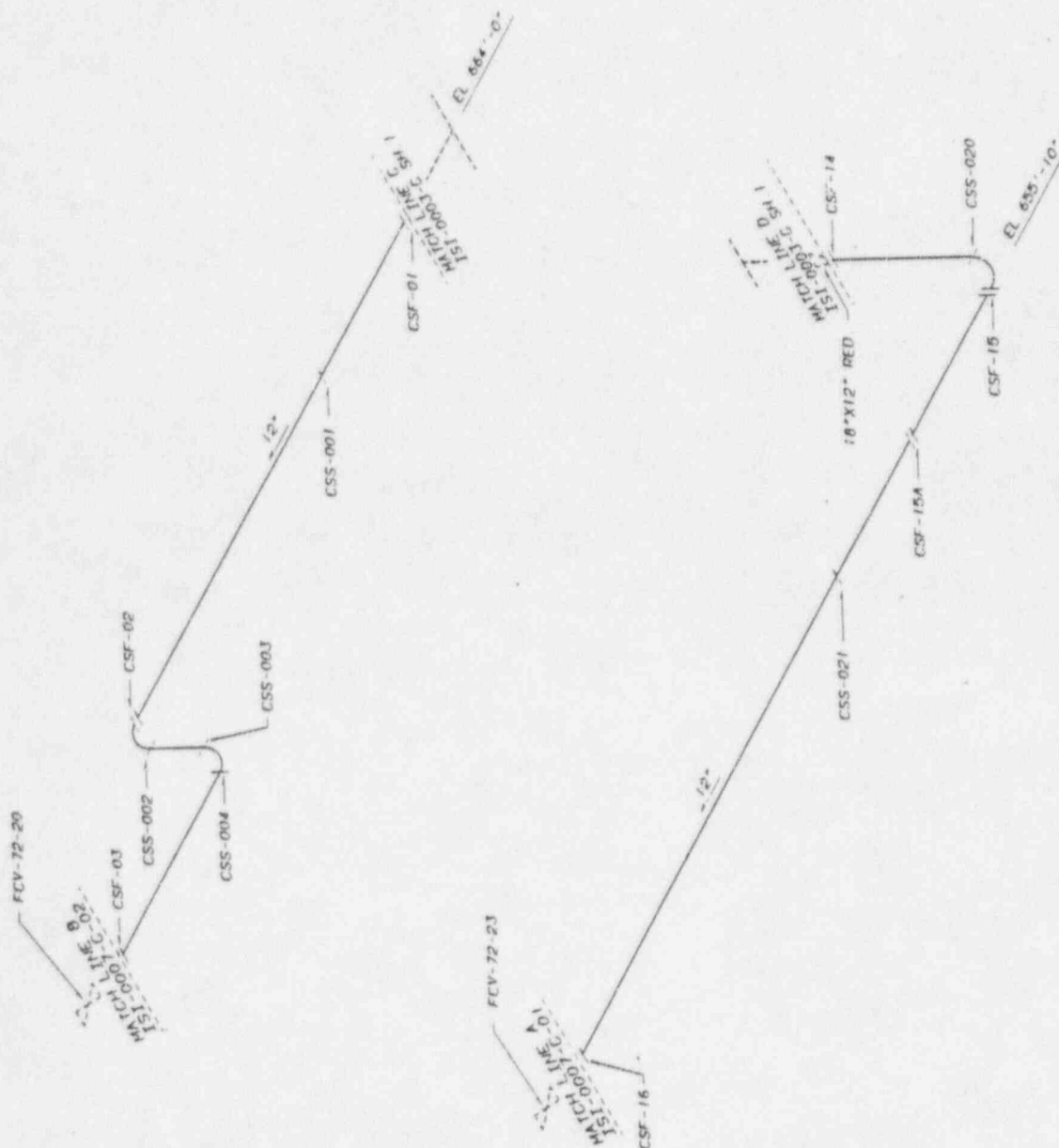
A-7478

MATERIAL SPECIFICATIONS

PIPE
12" SCH 40 SA358 TP316W

FITTINGS
12" SCH 40 SA403 WP316W

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	REVISION	DATE
1				
TENNESSEE VALLEY AUTHORITY				
SEDOYAH NUCLEAR PLANT				
UNIT 2				
RESIDUAL HEAT REMOVAL SYSTEM				
WELD LOCATIONS				
DATE	BY	DATE	BY	SCALE
12-13-95	WJ	12-13-95	WJ	AS SHOWN
CHECKED	BY	DATE	BY	SCALE
12-13-95	WJ	12-13-95	WJ	AS SHOWN
SUBMITTED				
ISI-0003-C-09				
00				

ASME CC-2 (EQUIVALENT)

[illegible]

REFERENCE DRAWINGS
A-7478

MATERIAL SPECIFICATIONS

PIPE
20" SA358 TP304 WELDED (0.375 WALL)

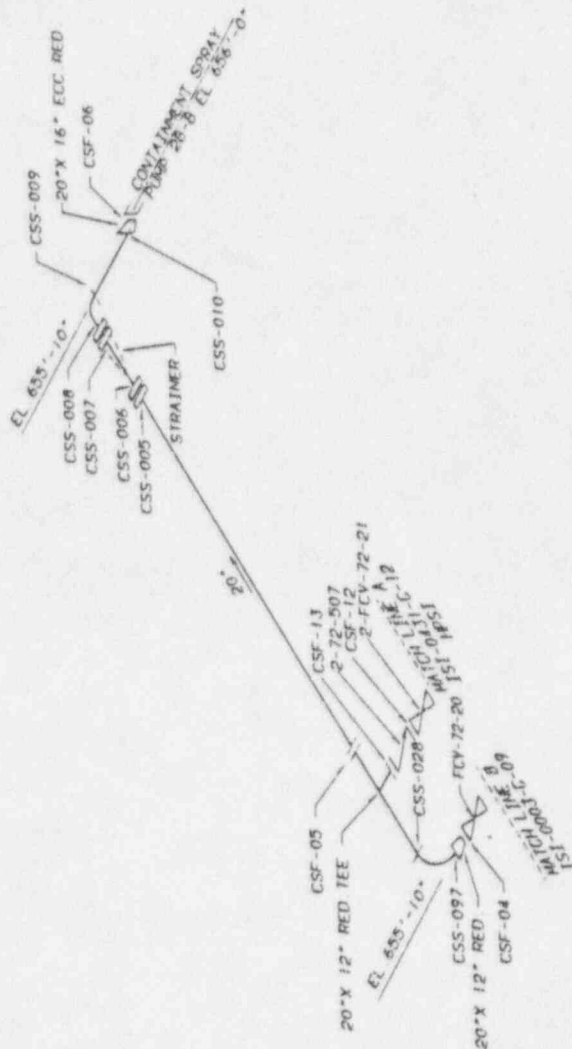
FITTINGS

12" SCH 40 SA403 WP316M
20" SCH 40S SA403 WP304M
20" X 16" ECC RED SCH 40S SA403 WP304M

FLANGES

20" SCH 40S SA182 F304

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DESIGN	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED	BY	11/16/85	FOR	MAINTAINED DRAWING	
SUBMITTED	DATE	12-16-85	SCALE	NOT TO SCALE	
ISL-0007-C-02					
00					

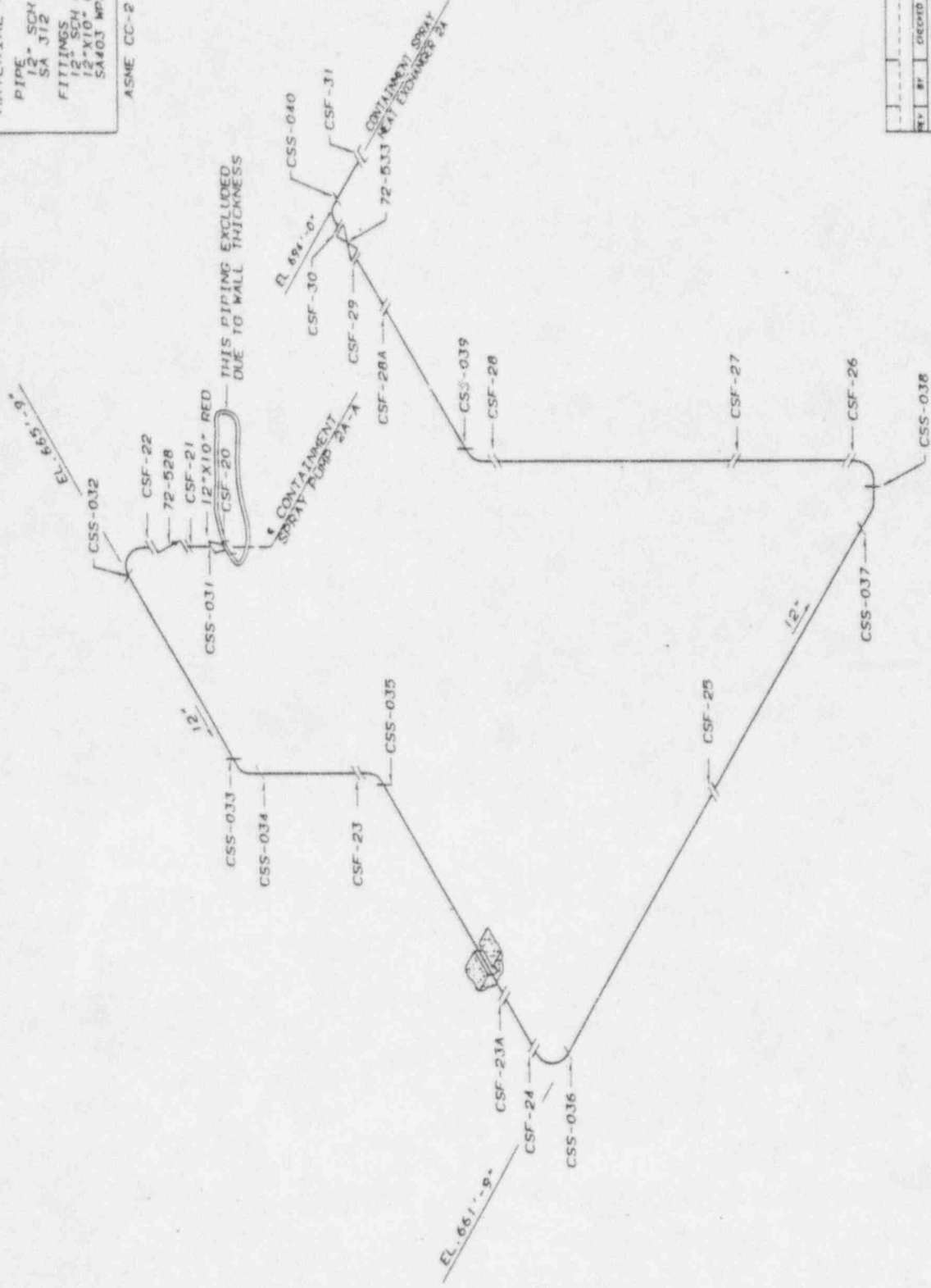
REFERENCE DRAWINGS
A-7479

MATERIAL SPECIFICATIONS

PIPE
12" SCH 40S
SA 312 TP304 WELDED

FITTINGS
12" SCH 40S SA 403 WP304N WELDED
12"X10" CON RED SCH 40S
SA403 WP304 WELDED

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	DATE	APP'D	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DRWN	DATE	11-14-95	SCALE	NOT TO SCALE	NO
100	100	100	100	100	100
Submitted: 100					

MATERIAL SPECIFICATIONS

PIPE
12" & 8" SCH 40S
SA312 TP304 WELDED

FLYING

12" SCH 40S SA403 WP304W
12"X12"XB - RED TEE SCH 40S
SA403 WP304W WELDED

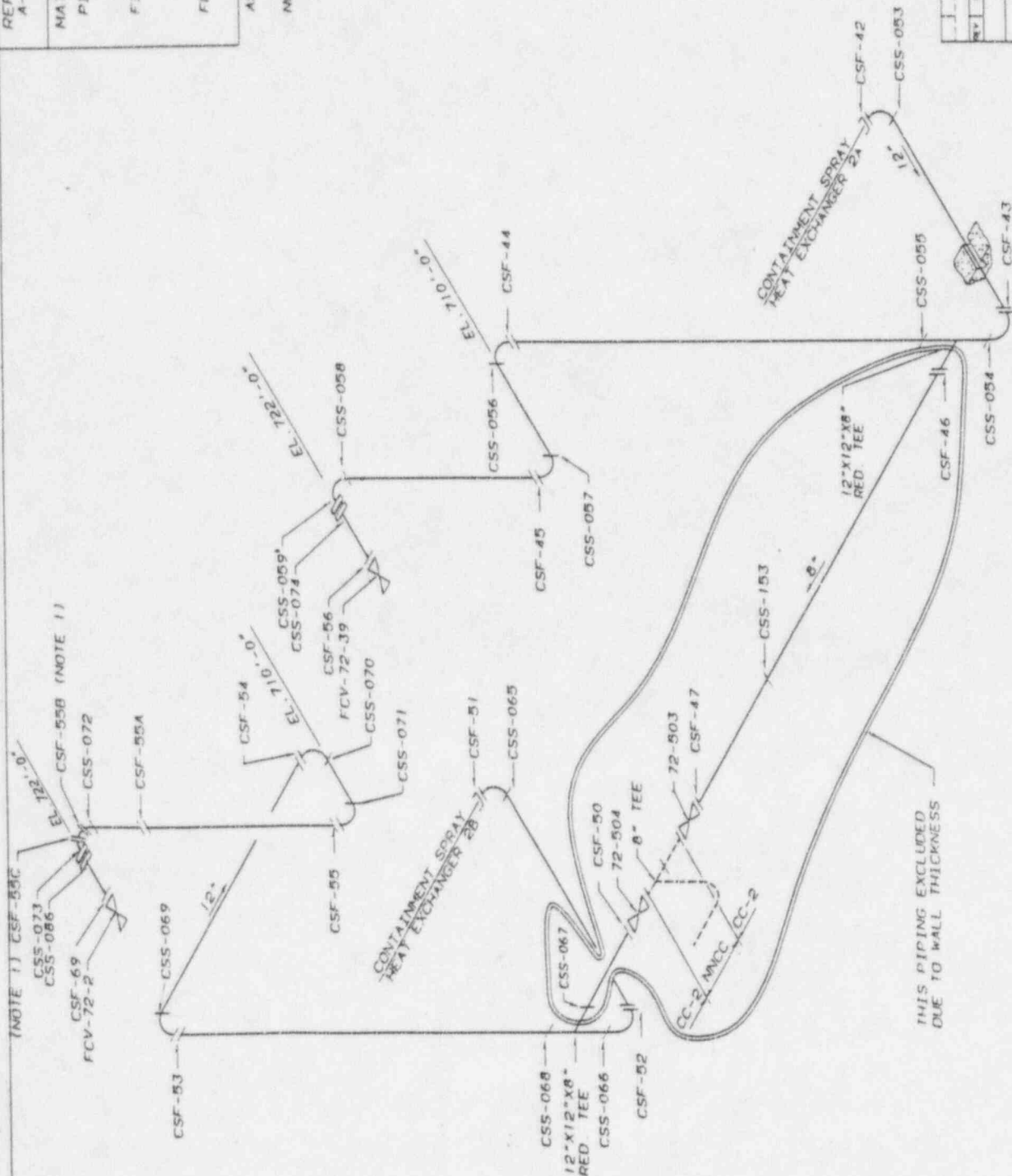
FLANGES

12- SA192 F304

ASME CC-2 (EQUIVALENT)

NOTE

1. THESE WELDS ARE CUTS ON THE SAME ELBOW



THIS PIPING EXCLUDED
DUE TO WALL THICKNESS

DATE	BY	CHECKED	QUANTIFIED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
WELD LOCATIONS					
ISSUED BY	DATE	12-16-85	SCALE	AS SHOWN	DATE
CHECKED <i>Ed</i>	APPROVED <i>Ed</i>	CDI MANUFACTURED ORIGINALLY	00		
QUANTIFIED <i>Ed</i>	151-0007-C-0		00		

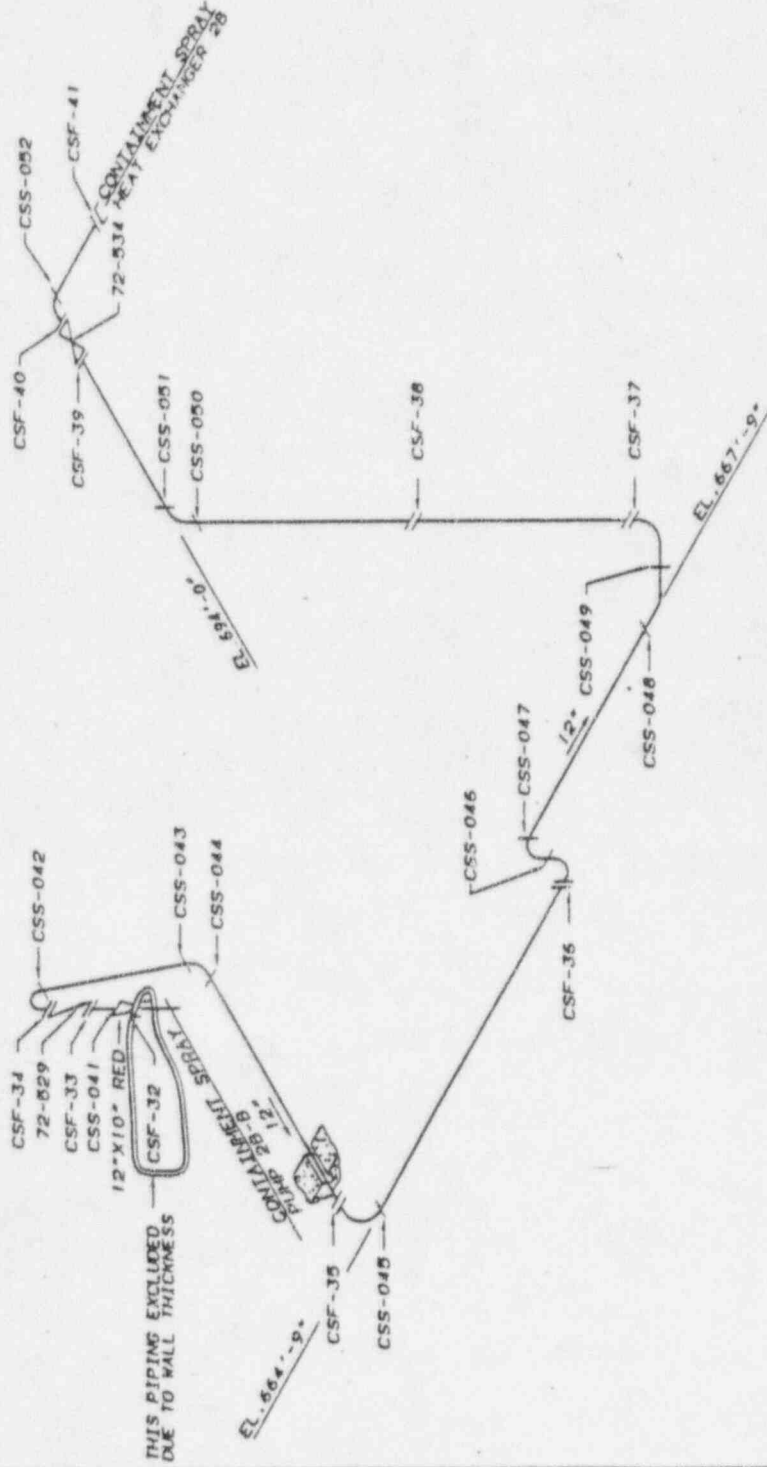
REFERENCE DRAWINGS
A-7480

MATERIAL SPECIFICATIONS

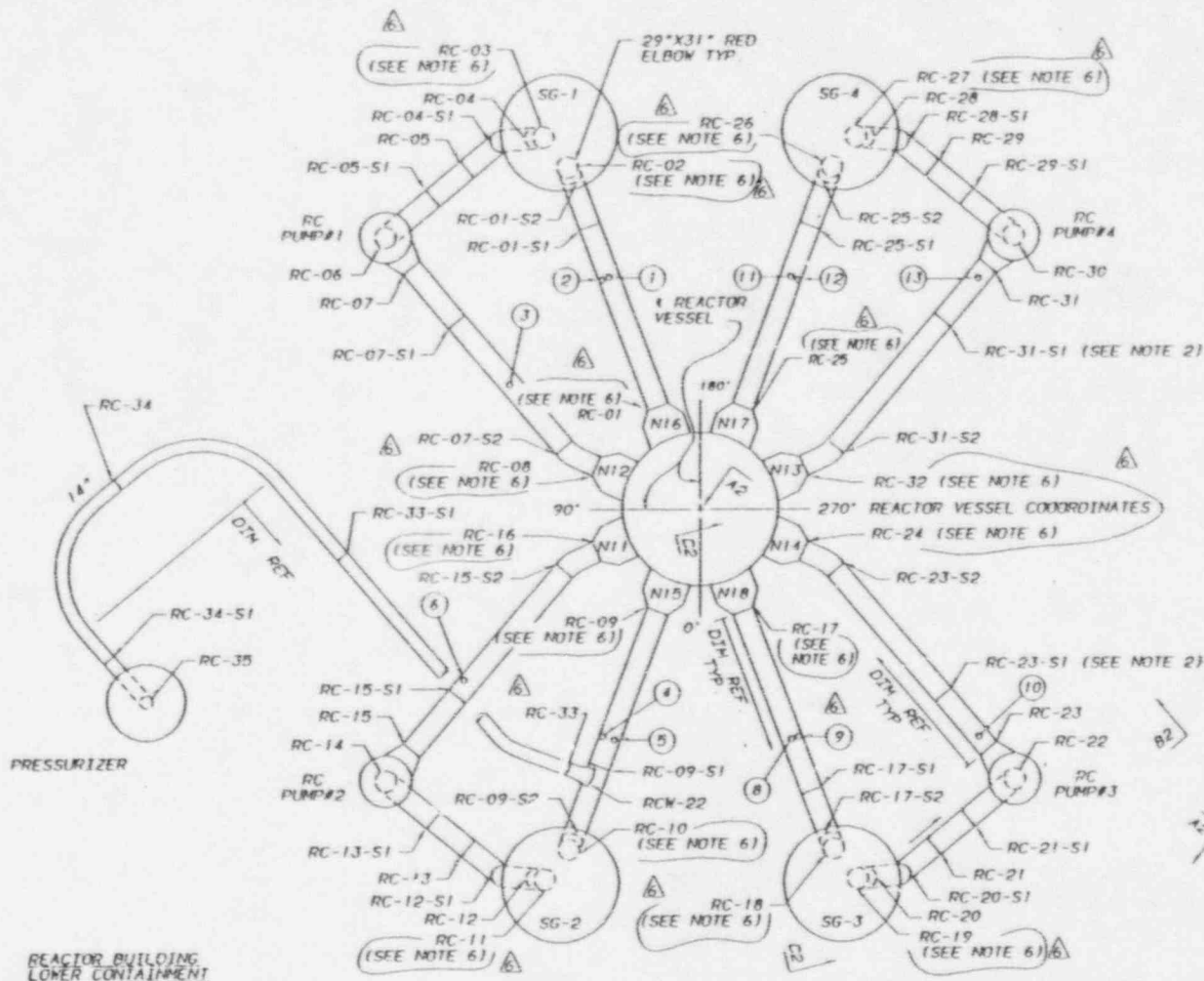
PIPE
12" SCH 40S
SA312 TP304 WELDED

FITTINGS
12" SCH 40S SA403 WP304W WELDED
12"X10" CON RED SCH 40S
SA403 WP304W WELDED

ASME CC-2 (EQUIVALENT)



REV	BY	DATE	SUBMITTED	APPROVED	DATE
1	JLD	11/14/88	11/14/88	11/14/88	11/14/88
2	JLD	11/14/88	11/14/88	11/14/88	11/14/88
3	JLD	11/14/88	11/14/88	11/14/88	11/14/88
4	JLD	11/14/88	11/14/88	11/14/88	11/14/88
5	JLD	11/14/88	11/14/88	11/14/88	11/14/88
6	JLD	11/14/88	11/14/88	11/14/88	11/14/88
7	JLD	11/14/88	11/14/88	11/14/88	11/14/88
8	JLD	11/14/88	11/14/88	11/14/88	11/14/88
9	JLD	11/14/88	11/14/88	11/14/88	11/14/88
10	JLD	11/14/88	11/14/88	11/14/88	11/14/88
11	JLD	11/14/88	11/14/88	11/14/88	11/14/88
12	JLD	11/14/88	11/14/88	11/14/88	11/14/88
13	JLD	11/14/88	11/14/88	11/14/88	11/14/88
14	JLD	11/14/88	11/14/88	11/14/88	11/14/88
15	JLD	11/14/88	11/14/88	11/14/88	11/14/88
16	JLD	11/14/88	11/14/88	11/14/88	11/14/88
17	JLD	11/14/88	11/14/88	11/14/88	11/14/88
18	JLD	11/14/88	11/14/88	11/14/88	11/14/88
19	JLD	11/14/88	11/14/88	11/14/88	11/14/88
20	JLD	11/14/88	11/14/88	11/14/88	11/14/88
21	JLD	11/14/88	11/14/88	11/14/88	11/14/88
22	JLD	11/14/88	11/14/88	11/14/88	11/14/88
23	JLD	11/14/88	11/14/88	11/14/88	11/14/88
24	JLD	11/14/88	11/14/88	11/14/88	11/14/88
25	JLD	11/14/88	11/14/88	11/14/88	11/14/88
26	JLD	11/14/88	11/14/88	11/14/88	11/14/88
27	JLD	11/14/88	11/14/88	11/14/88	11/14/88
28	JLD	11/14/88	11/14/88	11/14/88	11/14/88
29	JLD	11/14/88	11/14/88	11/14/88	11/14/88
30	JLD	11/14/88	11/14/88	11/14/88	11/14/88
31	JLD	11/14/88	11/14/88	11/14/88	11/14/88
32	JLD	11/14/88	11/14/88	11/14/88	11/14/88
33	JLD	11/14/88	11/14/88	11/14/88	11/14/88
34	JLD	11/14/88	11/14/88	11/14/88	11/14/88
35	JLD	11/14/88	11/14/88	11/14/88	11/14/88
36	JLD	11/14/88	11/14/88	11/14/88	11/14/88
37	JLD	11/14/88	11/14/88	11/14/88	11/14/88
38	JLD	11/14/88	11/14/88	11/14/88	11/14/88
39	JLD	11/14/88	11/14/88	11/14/88	11/14/88
40	JLD	11/14/88	11/14/88	11/14/88	11/14/88
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42	JLD	11/14/88	11/14/88	11/14/88	11/14/88
43	JLD	11/14/88	11/14/88	11/14/88	11/14/88
44	JLD	11/14/88	11/14/88	11/14/88	11/14/88
45	JLD	11/14/88	11/14/88	11/14/88	11/14/88
46	JLD	11/14/88	11/14/88	11/14/88	11/14/88
47	JLD	11/14/88	11/14/88	11/14/88	11/14/88
48	JLD	11/14/88	11/14/88	11/14/88	11/14/88
49	JLD	11/14/88	11/14/88	11/14/88	11/14/88
50	JLD	11/14/88	11/14/88	11/14/88	11/14/88
51	JLD	11/14/88	11/14/88	11/14/88	11/14/88
52	JLD	11/14/88	11/14/88	11/14/88	11/14/88
53	JLD	11/14/88	11/14/88	11/14/88	11/14/88
54	JLD	11/14/88	11/14/88	11/14/88	11/14/88
55	JLD	11/14/88	11/14/88	11/14/88	11/14/88
56	JLD	11/14/88	11/14/88	11/14/88	11/14/88
57	JLD	11/14/88	11/14/88	11/14/88	11/14/88
58	JLD	11/14/88	11/14/88	11/14/88	11/14/88
59	JLD	11/14/88	11/14/88	11/14/88	11/14/88
60	JLD	11/14/88	11/14/88	11/14/88	11/14/88
61	JLD	11/14/88	11/14/88	11/14/88	11/14/88
62	JLD	11/14/88	11/14/88	11/14/88	11/14/88
63	JLD	11/14/88	11/14/88	11/14/88	11/14/88
64	JLD	11/14/88	11/14/88	11/14/88	11/14/88
65	JLD	11/14/88	11/14/88	11/14/88	11/14/88
66	JLD	11/14/88	11/14/88	11/14/88	11/14/88
67	JLD	11/14/88	11/14/88	11/14/88	11/14/88
68	JLD	11/14/88	11/14/88	11/14/88	11/14/88
69	JLD	11/14/88	11/14/88	11/14/88	11/14/88
70	JLD	11/14/88	11/14/88	11/14/88	11/14/88
71	JLD	11/14/88	11/14/88	11/14/88	11/14/88
72	JLD	11/14/88	11/14/88	11/14/88	11/14/88
73	JLD	11/14/88	11/14/88	11/14/88	11/14/88
74	JLD	11/14/88	11/14/88	11/14/88	11/14/88
75	JLD	11/14/88	11/14/88	11/14/88	11/14/88
76	JLD	11/14/88	11/14/88	11/14/88	11/14/88
77	JLD	11/14/88	11/14/88	11/14/88	11/14/88
78	JLD	11/14/88	11/14/88	11/14/88	11/14/88
79	JLD	11/14/88	11/14/88	11/14/88	11/14/88
80	JLD	11/14/88	11/14/88	11/14/88	11/14/88
81	JLD	11/14/88	11/14/88	11/14/88	11/14/88
82	JLD	11/14/88	11/14/88	11/14/88	11/14/88
83	JLD	11/14/88	11/14/88	11/14/88	11/14/88
84	JLD	11/14/88	11/14/88	11/14/88	11/14/88
85	JLD	11/14/88	11/14/88	11/14/88	11/14/88
86	JLD	11/14/88	11/14/88	11/14/88	11/14/88
87	JLD	11/14/88	11/14/88	11/14/88	11/14/88
88	JLD	11/14/88	11/14/88	11/14/88	11/14/88
89	JLD	11/14/88	11/14/88	11/14/88	11/14/88
90	JLD	11/14/88	11/14/88	11/14/88	11/14/88
91	JLD	11/14/88	11/14/88	11/14/88	11/14/88
92	JLD	11/14/88	11/14/88	11/14/88	11/14/88
93	JLD	11/14/88	11/14/88	11/14/88	11/14/88
94	JLD	11/14/88	11/14/88	11/14/88	11/14/88
95	JLD	11/14/88	11/14/88	11/14/88	11/14/88
96	JLD	11/14/88	11/14/88	11/14/88	11/14/88
97	JLD	11/14/88	11/14/88	11/14/88	11/14/88
98	JLD	11/14/88	11/14/88	11/14/88	11/14/88
99	JLD	11/14/88	11/14/88	11/14/88	11/14/88
100	JLD	11/14/88	11/14/88	11/14/88	11/14/88



REFERENCE DRAWINGS

47W304-1
2-RC-005W (LOOP 1)
2-RC-006W (LOOP 2)
2-RC-007W (LOOP 3)
2-RC-008W (LOOP 4)
47W465-1
CONTRACT 91934
DRAWING 9392-TEN
SHOP SHOTS TEN-1 THRU TEN-18F

MATERIAL SPECIFICATIONS

PRESSURIZER SURGE LINE
14" SCH 160 A-378

HOT LEG
29" ID, A-351 CF8M, N.W. 2 84"

CROSSOVER LEG
31" ID, A-351 CF8M, N.W. 2 99"

COLD LEG
27 5/8" ID, A-351 CF8M, N.W. 2 69"

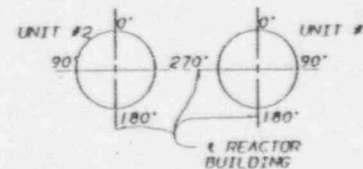
ASME CC-1 (EQUIVALENT)

NOTES

- 2 INACCESSIBLE
- 3 REACTOR VESSEL NOZZLE TO SAFE END WELD ID'S ARE SHOWN ON PVDWG ISI-0298-C. THESE ARE ASME SECTION XI EXAM CATEGORY B-F, DISSIMILAR METAL WELDS.
- 4 STEAM GENERATOR NOZZLE TO SAFE END WELD ID'S ARE SHOWN ON S.G. DWG ISI-0401-C. THESE ARE ASME SECTION XI EXAM CATEGORY B-F, DISSIMILAR METAL WELDS.
- 5 FOR TEMPERATURE ELEMENTS SEE SHEET 2 TAGS 1-13
- 6 THE EXAMINATION OF THESE WELDS IS INCLUDED IN THE EXAMINATION OF THE NOZZLE TO SAFE END WELD

PRESSURIZER

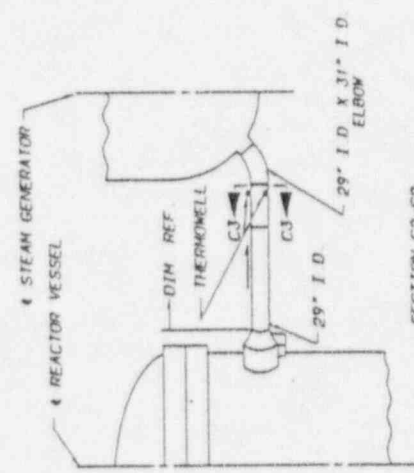
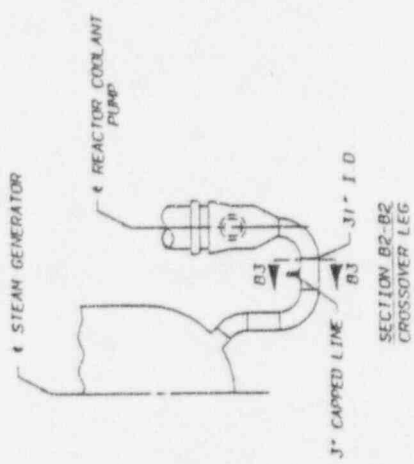
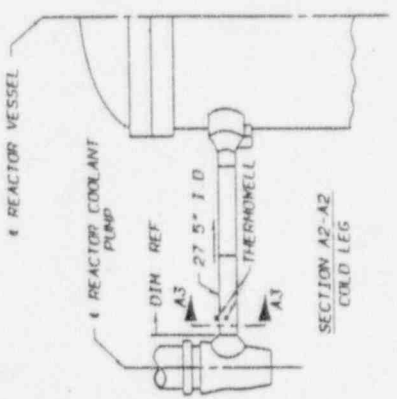
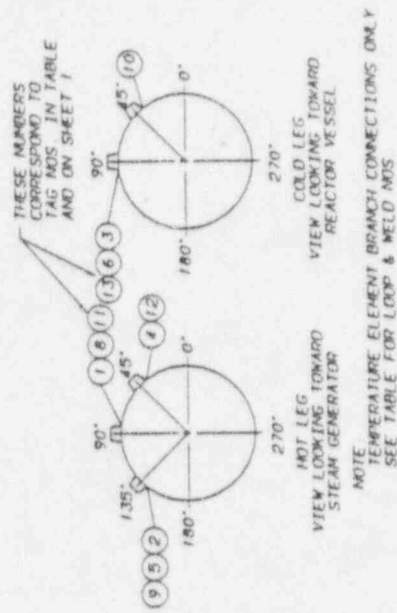
REACTOR BUILDING
LOWER CONTAINMENT



4	DWG	ISI-0008-C-01	12/16/95		
CHANGE NOTES P. 1, 3, AND NOTE 6, AND REACTOR VESSEL COORDINATES CHANGE DWG AD. A SHEET SIZE FROM B TO C					
5	DWG	EDC	JGC	GLB	7/9/92
CHANGED PER SOW WELD REVIEW. REMOVE WELD RC-23-S2 AND RE-BA 31P AT REACTOR CORN. LOCATION 3 (DPS 1-1). CORRECT DWT DWGS. ADD SHOP SHOTS 6 AND SH 4					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
REACTOR COOLANT PIPING					
WELD LOCATIONS					
DRAWN	DATE	SCALE: NOT TO SCALE			
CHECKED EDC	APPROVED GLB	CAD MAINTAINED DRAWING			REV
SUBMITTED EDC	ISI-0008-C-01				06

SEE SHEET 1 FOR TAG NO. & LOCATION

TAG NO.	LEG	BRANCH CONN.	DIM. TO REF.	TO REF. ANGLE
1	14-1	2-TE-68-001	5'-9"	90°
2	14-1	2-TE-68-001C	9'-9"	135°
3	14-1	2-TE-68-018	8'-3"	90°
4	14-2	2-TE-68-024	9'-5"	45°
5	14-2	2-TE-68-024C	9'-5"	135°
6	14-2	2-TE-68-041	6'-6"	90°
8	14-3	2-TE-68-043	9'-0"	90°
9	14-3	2-TE-68-043C	9'-0"	135°
10	14-3	2-TE-68-060	1'-0"	45°
11	14-4	2-TE-68-065	8'-0"	90°
12	14-4	2-TE-68-065C	8'-0"	45°
13	14-4	2-TE-68-083	3'-3"	90°
SIZE				
OD = 2 1/2"				
ID = 0.875"				



NOTE: EACH OF THESE BRANCH PIPE CONNECTIONS 2 INCHES NPS AND SMALLER HAS A SPECIAL BOSS. THIS BOSS IS USED WITH TEMPERATURE ELEMENTS WITH AN OUTSIDE DIAMETER (OD) OF 0.875 INCH. THE SPECIAL BOSS HAS AN OD OF 1 1/2 INCHES, A 0.01 INCH REAR INSIDE DIAMETER (ID) OF 0.9 INCH REAR TO PROVIDE 0.015 INCH - 0.020 INCH CLEARANCE WITH 0.010 INCH MISALIGNMENT ASSUMING THE WORST POSSIBLE CASE (THE WELD TO PIPE FAILS). THE LARGEST HOLE IS THAT FOR A 2-INCH PIPE (ANY SCHEDULE). THEREFORE, IT SHALL BE TREATED AS A 2-INCH BRANCH PIPE FOR ASME SECTION XI PURPOSES.

3	REV	8/10	DATE	12/10/95
4	CHANGE	NOTE: CHANGE DIM. NO. 1 SIZE FROM 8 TO C	DATE	1/2/95
5	REV	8/10	DATE	1/2/95
6	REV	8/10	DATE	1/2/95
7	REV	8/10	DATE	1/2/95
8	REV	8/10	DATE	1/2/95
9	REV	8/10	DATE	1/2/95
10	REV	8/10	DATE	1/2/95
11	REV	8/10	DATE	1/2/95
12	REV	8/10	DATE	1/2/95
13	REV	8/10	DATE	1/2/95
14	REV	8/10	DATE	1/2/95
15	REV	8/10	DATE	1/2/95
16	REV	8/10	DATE	1/2/95
17	REV	8/10	DATE	1/2/95
18	REV	8/10	DATE	1/2/95
19	REV	8/10	DATE	1/2/95
20	REV	8/10	DATE	1/2/95
21	REV	8/10	DATE	1/2/95
22	REV	8/10	DATE	1/2/95
23	REV	8/10	DATE	1/2/95
24	REV	8/10	DATE	1/2/95
25	REV	8/10	DATE	1/2/95
26	REV	8/10	DATE	1/2/95
27	REV	8/10	DATE	1/2/95
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29	REV	8/10	DATE	1/2/95
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35	REV	8/10	DATE	1/2/95
36	REV	8/10	DATE	1/2/95
37	REV	8/10	DATE	1/2/95
38	REV	8/10	DATE	1/2/95
39	REV	8/10	DATE	1/2/95
40	REV	8/10	DATE	1/2/95
41	REV	8/10	DATE	1/2/95
42	REV	8/10	DATE	1/2/95
43	REV	8/10	DATE	1/2/95
44	REV	8/10	DATE	1/2/95
45	REV	8/10	DATE	1/2/95
46	REV	8/10	DATE	1/2/95
47	REV	8/10	DATE	1/2/95
48	REV	8/10	DATE	1/2/95
49	REV	8/10	DATE	1/2/95
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54	REV	8/10	DATE	1/2/95
55	REV	8/10	DATE	1/2/95
56	REV	8/10	DATE	1/2/95
57	REV	8/10	DATE	1/2/95
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64	REV	8/10	DATE	1/2/95
65	REV	8/10	DATE	1/2/95
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68	REV	8/10	DATE	1/2/95
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70	REV	8/10	DATE	1/2/95
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73	REV	8/10	DATE	1/2/95
74	REV	8/10	DATE	1/2/95
75	REV	8/10	DATE	1/2/95
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94	REV	8/10	DATE	1/2/95
95	REV	8/10	DATE	1/2/95
96	REV	8/10	DATE	1/2/95
97	REV	8/10	DATE	1/2/95
98	REV	8/10	DATE	1/2/95
99	REV	8/10	DATE	1/2/95
100	REV	8/10	DATE	1/2/95

2-RC-005N (LOOP 1)
2-RC-006W (LOOP 2)
2-RC-007N (LOOP 3)
2-RC-008W (LOOP 4)
NAVED 1-7555 A-7556

MATERIAL	160 ASTM A-376	TP-304
PIPE 3" SCH.	160 SA-403, WP316	
CAP 3" SCH.		

00P 1	RCW-01	RCF-62	RCF-62A
00P 2	RCW-03	RCF-69	RCF-69A
00P 3	RCW-05	RCF-76	RCF-76A
00P 4	RCW-07	RCF-83	RCF-83A

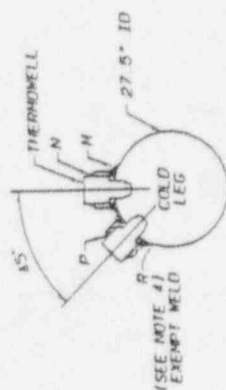
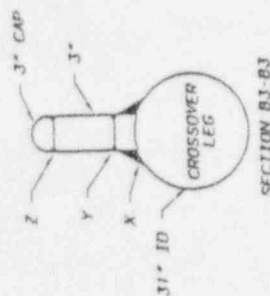
2001E75
K V65C17

MATERIAL
PIPING 2" SCH 160 SA-182 TYPE 316
WELDS: WELD M-2"

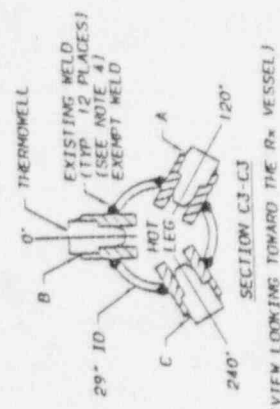
	WELD M	WELD N	WELD P
LOOP 1	RCW-02	RC-1729-1	RC-1729-A
LOOP 2	RCW-04	RC-1379-1	RC-1379-C
LOOP 3	RCW-06	RC-1477-1	RC-1477-A
LOOP 4	RCW-08	RC-1234-1	RC-234-A

PROCEEDINGS

185JE66
186JE26
5165C47



SECTION A3-A3
 ... LOOKING TOWARD THE R/V VESSEL

(VIEW LOOKING TOWARD THE R_x VESSEL)

MATERIAL
SOCKET WELD RID SCOOP FITTING SA-182 TYPE 316
- 6000#

	WELD A	WELD B	WELD C
LOOP 1	RC-1334-1	RC-1367-1	RC-1378-1
LOOP 2	RC-1431-1	RC-1465-1	RC-1476-1
LOOP 3	RC-1571-1	RC-1589-1	RC-1560-1
LOOP 4	RC-1606-1	RC-1598-1	RC-1617-1

PERFORMANCE DRAWINGS

2033464

[illegible]

2-RC-005A	(1,000 1)
2-RC-006A	(1,000 2)
2-RC-007A	(1,000 3)
2-RC-008A	(1,000 4)

ISI NO	TVA NO	LOOP I
RC-01	2-RC-1	
RC-01-S1	2-RC-1S	
RC-01-S2	2-RC-2S	
RC-02	2-RC-2	
RC-03	2-RC-3	
RC-04	2-RC-4	
RC-04-S1	2-RC-3S	
RC-05	2-RC-5	
RC-05-S1	2-RC-4S	
RC-06	2-RC-6	
RC-07	2-RC-7	
RC-07-S1	2-RC-5S	
RC-07-S2	2-RC-6S	
RC-08	2-RC-8	

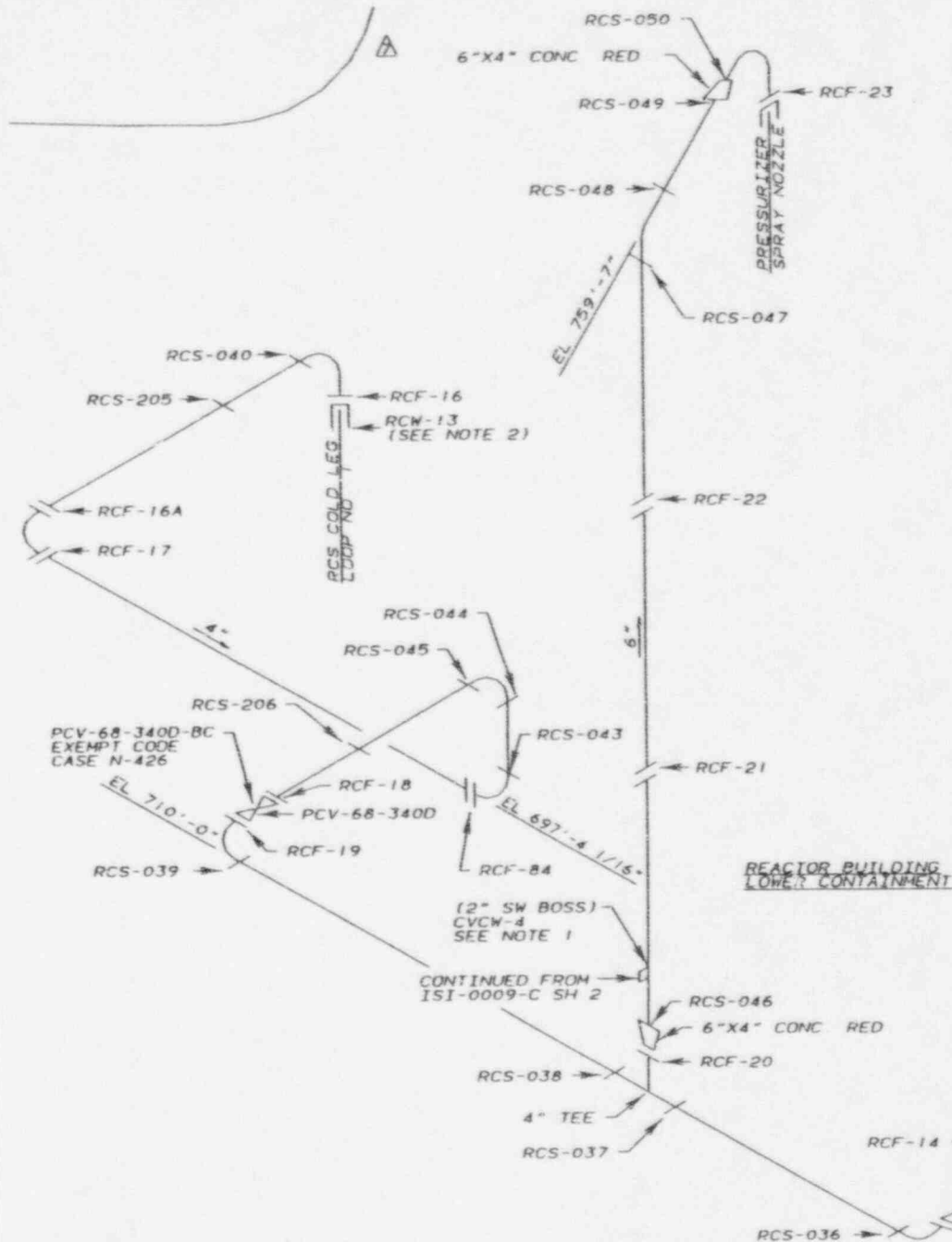
LOOP 3	
ISI NO	IJA NO
RC-17	2-RC-17
RC-17-S1	2-RC-14S
RC-17-S2	2-RC-15S
RC-18	2-RC-18
RC-19	2-RC-19
RC-20	2-RC-20
RC-20-S1	2-RC-16S
RC-21	2-RC-21
RC-21-S1	2-RC-17S
RC-22	2-RC-22
RC-23	2-RC-23
RC-23-S1	2-RC-18S
RC-23-S2	2-RC-19S
RC-24	2-RC-24

LOOP 2	
ISI NO	I/A NO
RC-09	2-RC-9
RC-09-S1	2-RC-75
RC-N-22	2-RC-965
RC-13	2-RC-33
RC-33-S1	2-RC-265
RC-34	2-RC-34
RC-34-S1	2-RC-285
RC-35	2-RC-35
RC-09-S2	2-RC-85
RC-10	2-RC-10
RC-11	2-RC-11
RC-12	2-RC-12
RC-12-S1	2-RC-95
RC-13	2-RC-13
RC-13-S1	2-RC-115
RC-14	2-RC-14
RC-15	2-RC-15
RC-15-S1	2-RC-125
RC-15-S2	2-RC-135
RC-16	2-RC-16

IST. NO.	I.V.A. NO.
RC-25	2-RC-25
RC-25-S1	2-RC-205
RC-25-S2	2-RC-215
RC-26	2-RC-26
RC-27	2-RC-27
RC-28	2-RC-28
RC-28-S1	2-RC-225
RC-29	2-RC-29
RC-29-S1	2-RC-235
RC-30	2-RC-30
RC-31	2-RC-31
RC-31-S1	2-RC-245
RC-31-S2	2-RC-255
RC-32	2-RC-32

REACTOR COOLANT CROSS REFERENCE WELD TABLE

[illegible]



REFERENCE DRAWINGS
 47W465 SERIES
 NAVCO A-7547
 2-RC-005W
 2-RC-006W

MATERIAL SPECIFICATIONS

PIPE
 SEAMLESS STAINLESS STEEL
 ASTM A-376 TP-316
 6" SCH 160
 4" SCH 120
 ASTM A-376 TP-304
 3" SCH 160
 2" SCH 160

FITTINGS
 SEAMLESS STAINLESS STEEL-BUTT WELDED
 ASTM A-403 WP-316
 6" SCH 160
 4" SCH 120
 3" SCH 160

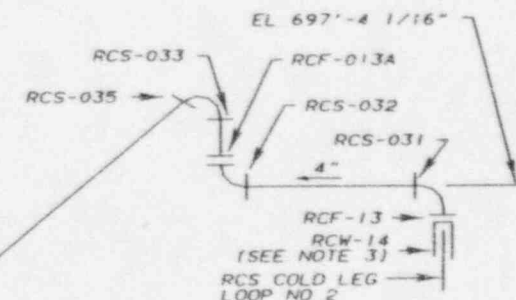
FORGED STAINLESS STEEL-SOCKET WELDED
 ASTM A-182 F-304
 2" BORED TO MATCH SCH 160 PIPE

FLANGES
 FORGED STAINLESS STEEL
 ASTM A-182 F-316
 6" SCH 160
 3" SCH 160
 2" SCH 160

ASME CC-1 (EQUIVALENT)

NOTES

- 1 WELD CVCW-4 IS TO BE INCLUDED IN THE CVCW SYSTEM FOR PRISM
- 2 WELD RCW-13 IS SAME AS 2-RC-65S ON 2-RC-005W
- 3 WELD RCW-14 IS SAME AS 2-RC-103S ON 2-RC-006W



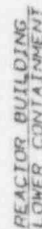
7	RPG	818	WDA	HW	2-27-96
CHANGE TITLE BLOCK TO NEW FORMAT PER FCOT 96-04 & REMOVE OLD REV INFO					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUOYAH NUCLEAR PLANT					
UNIT 2					
REACTOR COOLANT SYSTEM					
WELD LOCATIONS					
DRAWN	REV	DATE	SCALE	NOT TO SCALE	
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED	DRAWING REV
SUBMITTED	ETC	ISI-0013-C-01			07

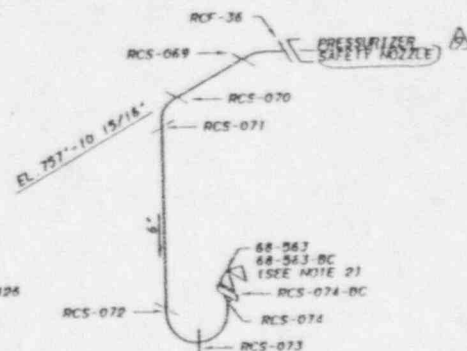
M900-2R-2
M500-2R-2
M1915-2R-2
M1915-2R-2

SEE SHEET 1

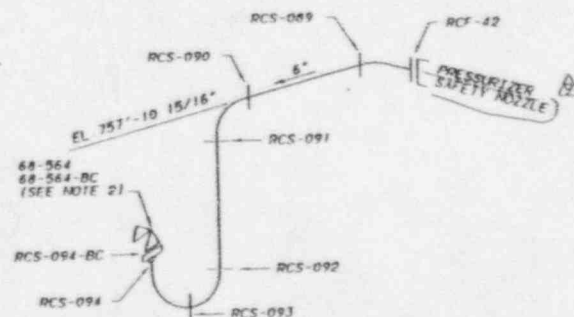
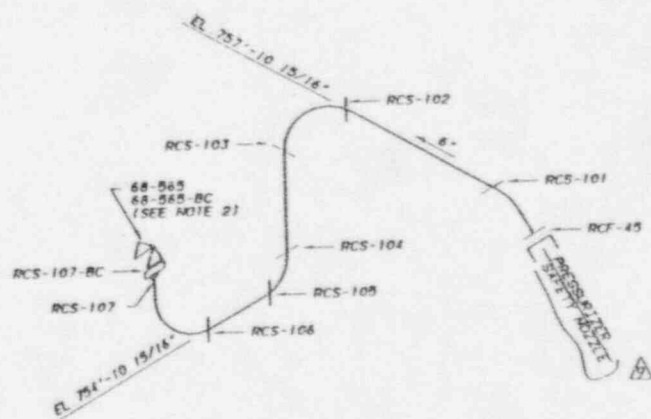
ASME CC-1 (EQUIVALENT)

1. WELD RCW-09 IS SAME AS
2-RC-64S ON 2-RC-005W
2. WELD RCW-10 IS SAME AS
2-RC-102S ON 2-RC-006W

[illegible]



REACTOR BUILDING
LOWER CONTAINMENT



2. INCLUDE VALVE SERIAL NUMBER ON EXAMINATION REPORTS WHEN EXAMINATIONS ARE PERFORMED ON THIS COMPONENT.

7	RNG	PCM	12-18-93
ADD "SAFETY MODULE"			
8	RNG	EC	
ADD NOTE 2		AND CONNECT IDENTIFIER REV-31	PER FED1 94-03
ADD RELAY MODULE 4 BBS			
9	RNG	EC	JCC
CONNECT LOCATION OF VALVE AND S		RHE	3-27-92
10	RNG	PHB	JCC
ADD IDENTIFICATION FOR C		QRB	11-14-91
ADD IDENTIFICATION FOR C ADD NOTE 2			
11	RNG	HRB	KCC
DETERMINE ON CAD & CONNECTED WELD NMS		QRB	7-9-87
REMOVE REV NMS		ADD NDC &	
REV	BY	CHECKED	SUBMITTED
APPROVED DATE			
TENNESSEE VALLEY AUTHORITY			
SEOUOYAH NUCLEAR PLANT			
UNIT 2			
REACTOR COOLANT SYSTEM			
WELD LOCATIONS			
DRAWING REV	DATE	SCALE NOT TO SCALE	
CHECKED EC	APPROVED GLB	CAD MAINTAINED DRAWING	
SUBMITTED EC	IS-0013-C-03		REV

REFERENCE DRAWINGS

2-RC-517-1W
2-RC-518-1W
2-RC-008W

MATERIAL SPECS.

SEE SHEET 1

ASME CC-1 (EQUIVALENT)

NOTE

1 WELD RCW-12 IS SAME AS
2-RC-91S ON 2-RC-008W

CROSSOVER LEG
LOOP NO. 3

EL. 684'-0" 1/4"

CONTINUED ON
TSI-0009-C
SHEET 1

RC-1652 (B W)

RC-1653

RC-1654

RC-1655

RC-1657

RC-1656

EL. 680'-9"

RC-1660

RC-1659

RC-1661

68-582

RC-1662

CROSSOVER LEG
LOOP NO. 4

EL. 684'-0" 1/4"

RCW-12
(SEE NOTE 1)

RC-1664

RC-1665

EL. 680'-9"

RC-1666

RC-1667

RC-1670

2"

RC-1669

RC-1673

68-557

RC-1674

RC-1675

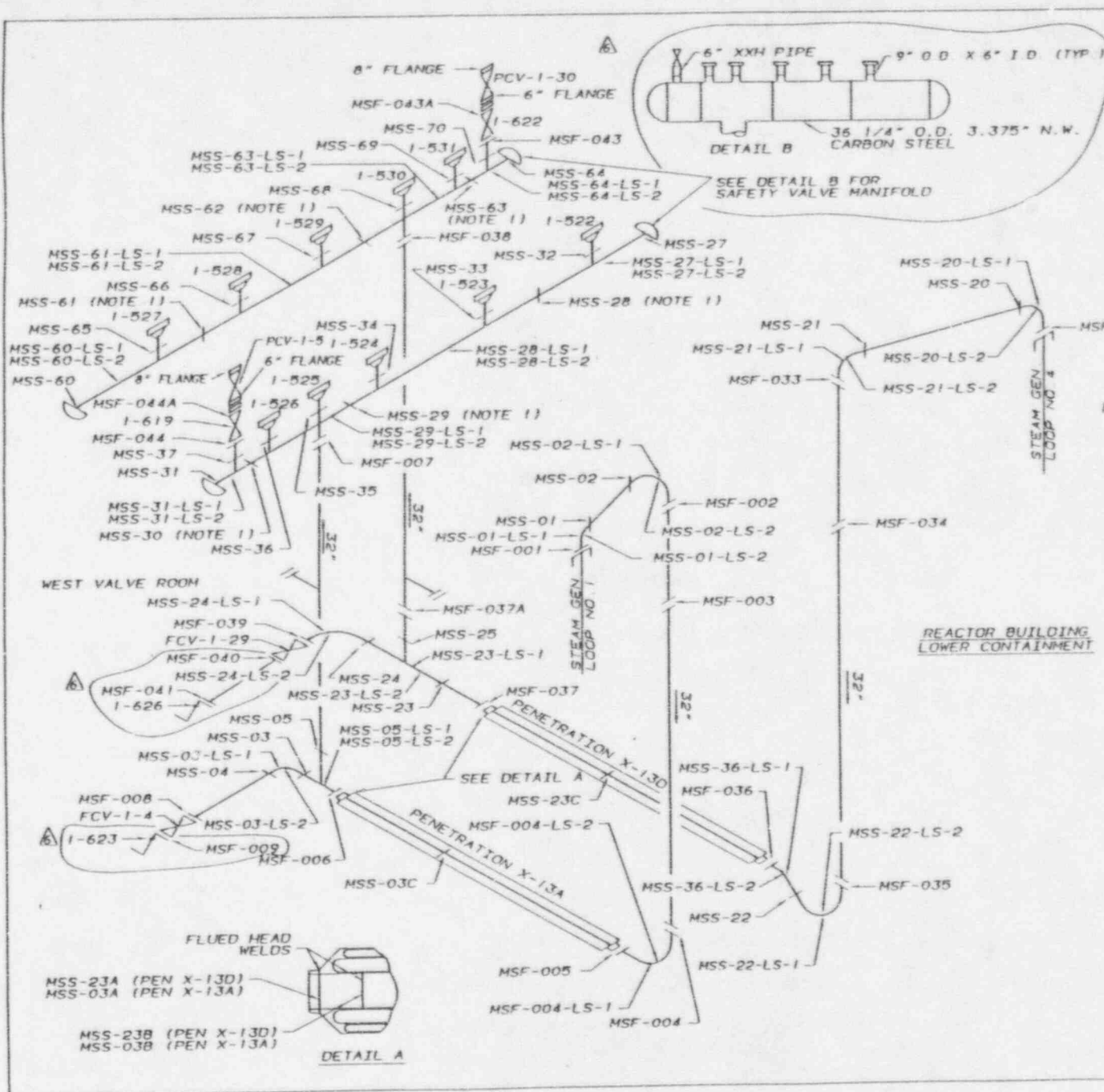
68-558

REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1	WJC	WJC	WJC	WJC	12-16-95
2	WJC	WJC	WJC	WJC	12-16-95
3	WJC	WJC	WJC	WJC	12-16-95
4	WJC	WJC	WJC	WJC	12-16-95
5	WJC	WJC	WJC	WJC	12-16-95
6	WJC	WJC	WJC	WJC	12-16-95
7	WJC	WJC	WJC	WJC	12-16-95
8	WJC	WJC	WJC	WJC	12-16-95
9	WJC	WJC	WJC	WJC	12-16-95
10	WJC	WJC	WJC	WJC	12-16-95
11	WJC	WJC	WJC	WJC	12-16-95
12	WJC	WJC	WJC	WJC	12-16-95
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14	WJC	WJC	WJC	WJC	12-16-95
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16	WJC	WJC	WJC	WJC	12-16-95
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21	WJC	WJC	WJC	WJC	12-16-95
22	WJC	WJC	WJC	WJC	12-16-95
23	WJC	WJC	WJC	WJC	12-16-95
24	WJC	WJC	WJC	WJC	12-16-95
25	WJC	WJC	WJC	WJC	12-16-95
26	WJC	WJC	WJC	WJC	12-16-95
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29	WJC	WJC	WJC	WJC	12-16-95
30	WJC	WJC	WJC	WJC	12-16-95
31	WJC	WJC	WJC	WJC	12-16-95
32	WJC	WJC	WJC	WJC	12-16-95
33	WJC	WJC	WJC	WJC	12-16-95
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39	WJC	WJC	WJC	WJC	12-16-95
40	WJC	WJC	WJC	WJC	12-16-95
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42	WJC	WJC	WJC	WJC	12-16-95
43	WJC	WJC	WJC	WJC	12-16-95
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98	WJC	WJC	WJC	WJC	12-16-95
99	WJC	WJC	WJC	WJC	12-16-95
100	WJC	WJC	WJC	WJC	12-16-95

TENNESSEE VALLEY AUTHORITY
SECOYAH NUCLEAR PLANT
UNIT 2
REACTOR COOLANT SYSTEM
WELD LOCATIONS

DESIGN	REV	DATE	SCALE	NOT TO SCALE
DESIGNED	WJC	12-16-95	1:40	AS SHOWN
CHECKED	WJC	12-16-95	1:40	AS SHOWN
SUBMITTED	WJC	12-16-95	1:40	AS SHOWN

TSI-0013-C-04 06



REFERENCE DRAWINGS

47W331-1
47W400
47W415-1
CONTRACT NO. 92615
TUBE TURNS 74229-D1 0
NAVCO A-7400

MATERIAL SPECIFICATIONS

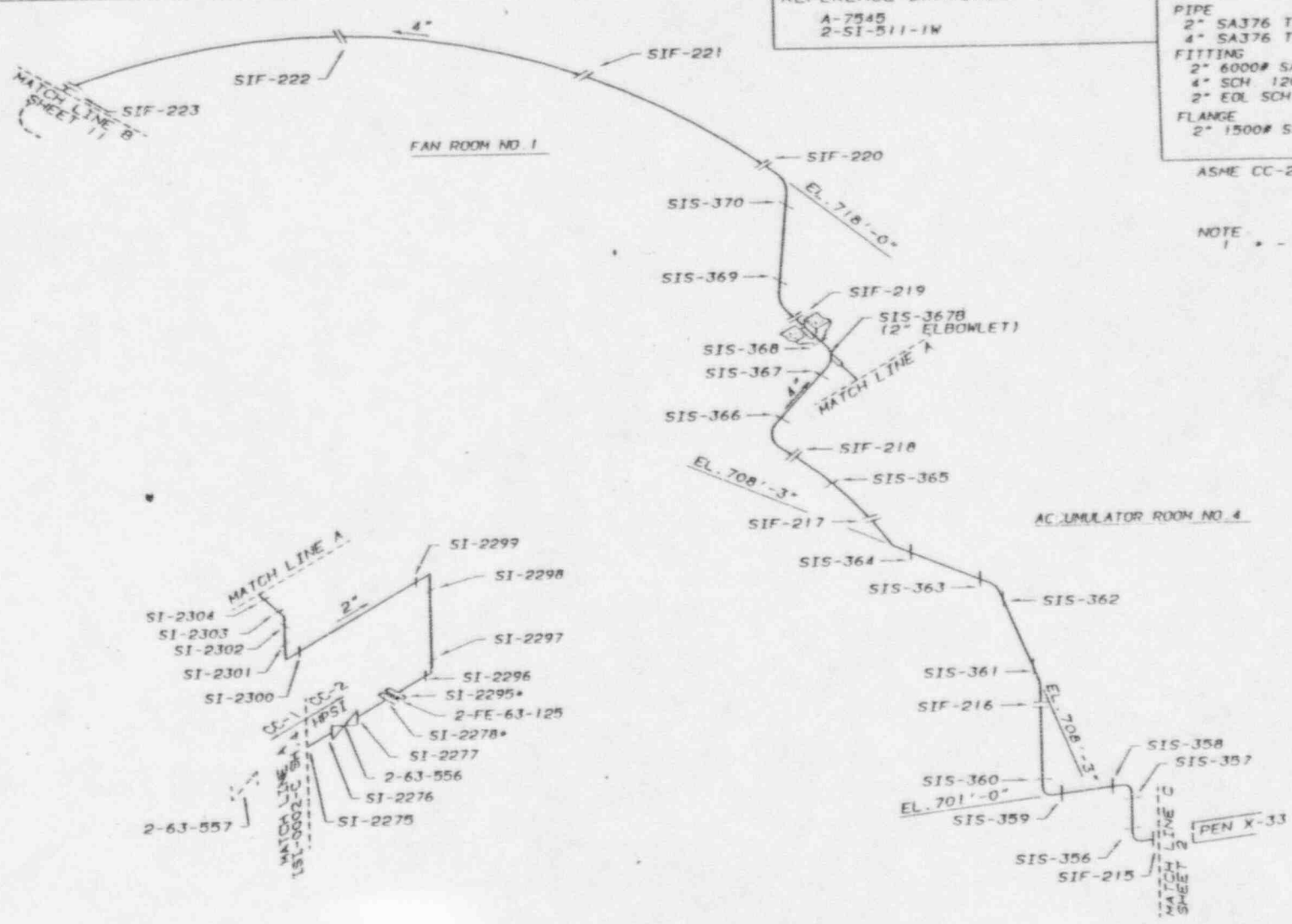
PIPE
32" O.D. X 29.710 I.D.
1.151 MIN WALL
A-155 GR KCF-70
FUSION WELDED
6" XX STG. A-106 GR B
FITTINGS
32" O.D. X 1.088"
A-420, GR WPLI

ASME CC-2 (EQUIVALENT)

NOTE:

1. HEADER MADE OF A-155 GR KCF-70
PIPE SPEC. CONSIDERED PIPE TO
PIPE CIRCUMFERENTIAL WELD OF
SAME WALL THICKNESS (36 1/4" O.D.)

4	WPC	WPC	WPC	WPC	12-10-95
ADD DETAIL B, AND WELDS W01-001, -040, -041, EXTEND BOUNDARY TO VALVES 1-523 AND 1-526					
5	WPC	JEC	EDC	CLB	11-23-92
CORRECT RELIEF VALVE CONFIGURATION ON HEADER, AND PENETRATION WELDS MSS-03C & MSS-23C, ADD REF DIMS, & REMOVE ON EXHAUST					
6	WPC	WPC	JEC	CLB	12-9-91
AND VALVE NO 5, REMOVE CAD BLOCK					
7	WPC	WPC	WPC	CLB	9-10-87
ADD L3 WELDS, VALVE 2, DET DIMS, NOTE, DETAIL A, & MAKE CAD					
8	JAA	WPC	WPC	CLB	7-8-85
CORRECT AS FOR DESIGN					
9	EDC			CLB	3-4-81
ADD & CORRECT WELD MDS					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOIAH NUCLEAR PLANT					
UNIT 2					
MAIN STEAM					
WELD LOCATIONS					
DESIGN	DATE	SCALE	NOT TO SCALE		
CHECKED	EDC	APPROVED	CLB	CAD MAINTAINED DRAWING	REV
SUBMITTED	EDC	ISI-0015-C-01	06		



REFERENCE DRAWINGS
 A-7545
 2-SI-511-1W

MATERIAL SPECIFICATIONS
 PIPE
 2" SA376 TP304 SCH. 160
 4" SA376 TP316 SCH. 120 SEAMLESS
 FITTING
 2" 6000# SA 182 F316
 4" SCH. 120 SA 403 WP316 SEAMLESS
 2" EOL SCH. 160 SA 182 F304
 FLANGE
 2" 1500# SA 182 F316

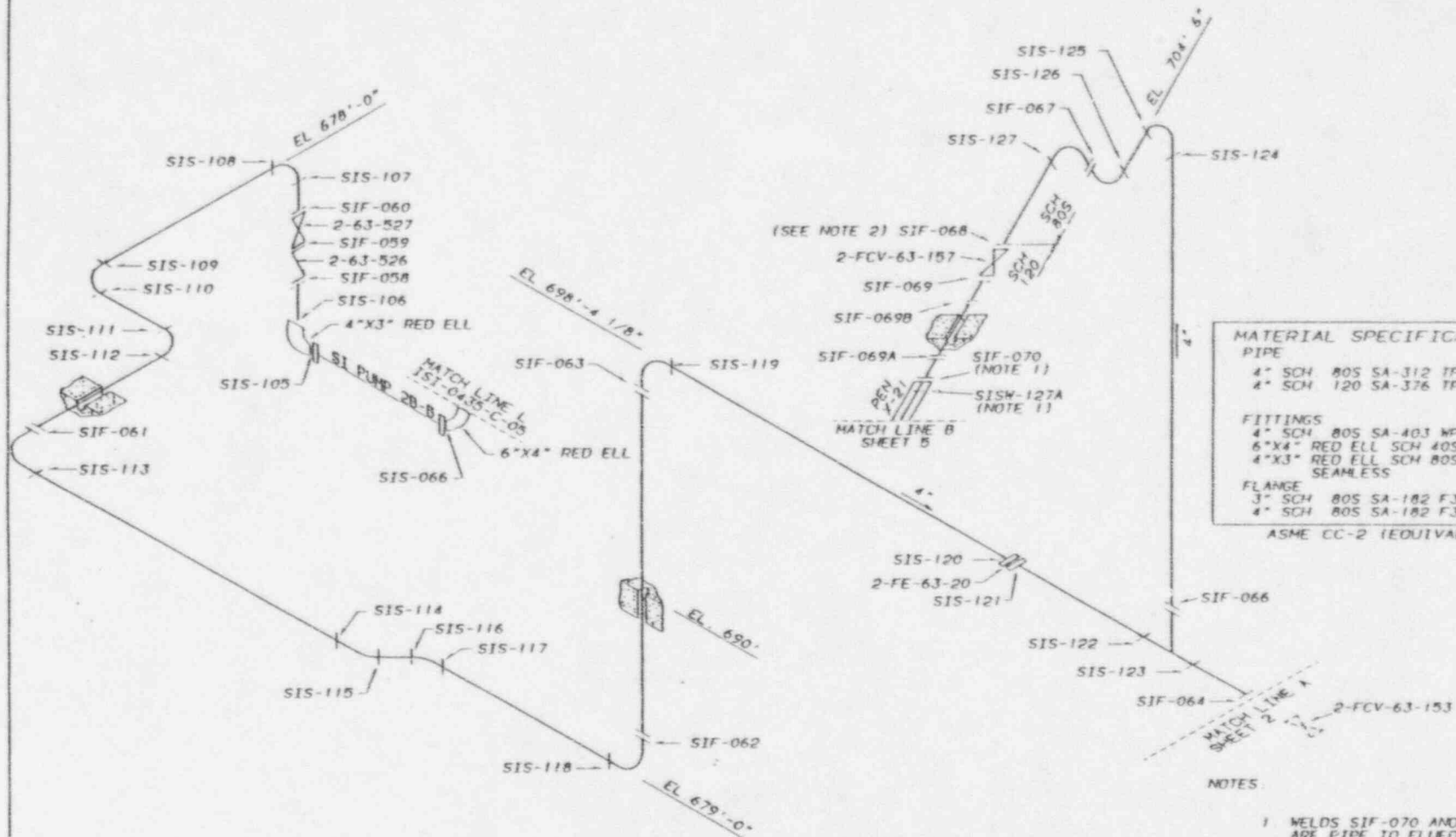
ASME CC-2 (EQUIVALENT)

NOTE
 1 * - BUTT WELD

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE 12-16-93	SCALE	NOT TO SCALE		
CHECKED JCS	APPROVED JHW	CDP IDENTIFIED	CRANKING	REV	
SUBMITTED JCS	ISI-0431-C-01 00				

REFERENCE DRAWINGS:

A-7494
CONTRACT 92615 DWG 74229-05 0



MATERIAL SPECIFICATIONS:

PIPE

4\" SCH 80S SA-312 TP 304 SEAMLESS
4\" SCH 120 SA-376 TP 316

FITTINGS

4\" SCH 80S SA-403 WP 304 SEAMLESS
6\"X4\" RED ELL SCH 40S
4\"X3\" RED ELL SCH 80S SA-403 WP 304 SEAMLESS

FLANGE

3\" SCH 80S SA-182 F304
4\" SCH 80S SA-182 F304

ASME CC-2 (EQUIVALENT)

NOTES:

- 1 WELDS SIF-070 AND SISW-127A ARE PIPE TO FLUED HEAD WELDS
- 2 PIPE I D BUILT-UP TO SCH 120

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE 12-16-85	SCALE 1/2\" TO SCALE			
CHECKED BY	APPROVED BY	CAD IDENTIFIED DRAWING			
SUBMITTED BY	151-0431-C-03	00			

REFERENCE DRAWINGS:

A-7544

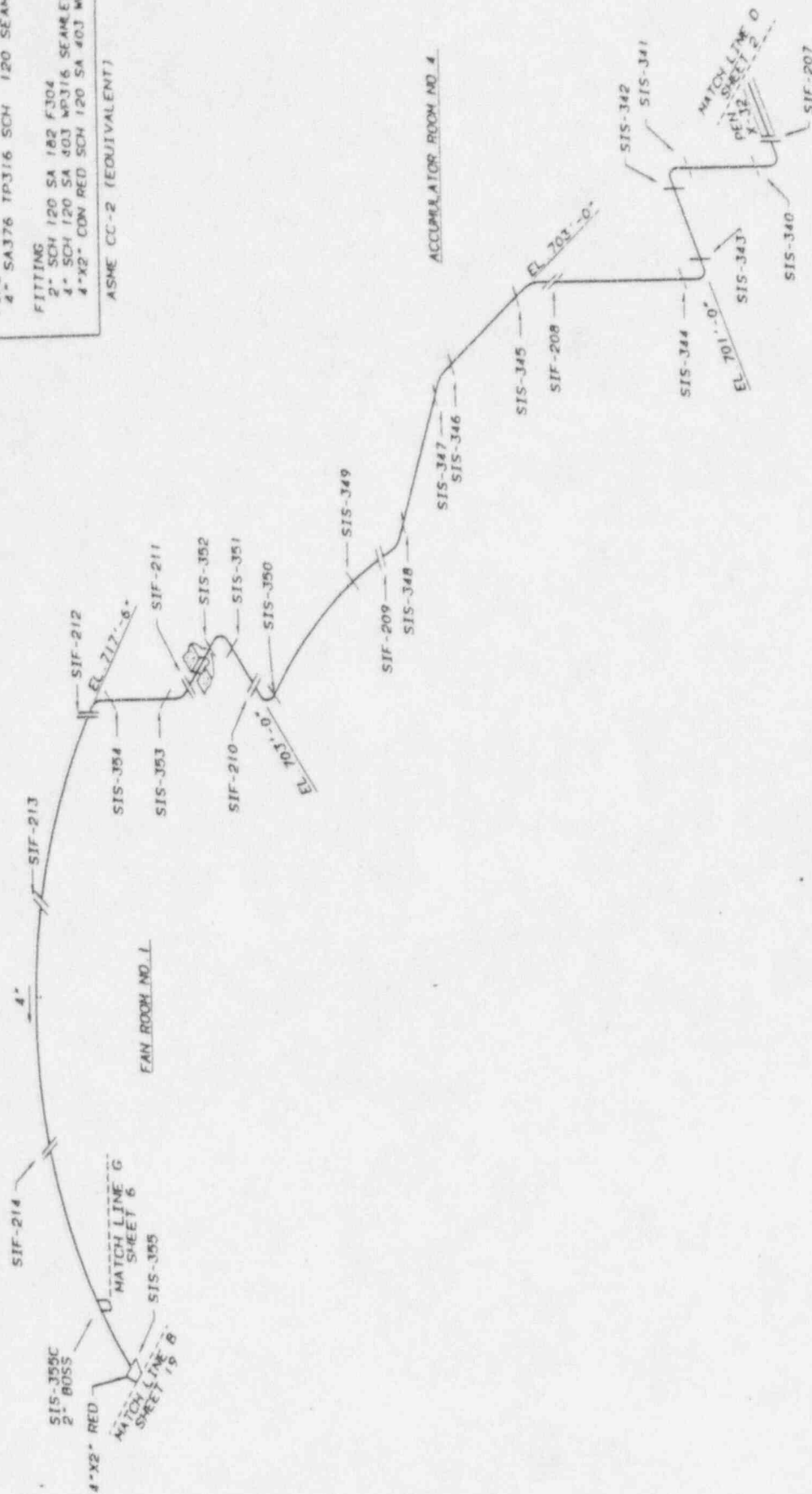
MATERIAL SPECIFICATIONS:

PIPE 4" SA376 TP316 SCH 120 SEAMLESS

FITTING:

2" SCH 120 SA 182 F304
4" SCH 120 SA 403 WP316 SEAMLESS
4"x2" CON RED SCH 120 SA 403 WP316

ASME CC-2 (EQUIVALENT)



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TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT
UNIT 2

HIGH PRESSURE SAFETY INJECTION SYSTEM

WELD LOCATIONS (SAFETY INJECTION)

DATE 12-18-94 SCALE 1/4" = 1'-0" SHEET 10 OF 10

CHECKED BY: [Signature] CAD AUTOMATED DRAWING

REVISIONS: [Signature] ISI-0431-C-04

REFERENCE DRAWINGS:
A-7542
2-SI-504-1W

MATERIAL SPECIFICATIONS:

PIPE
2" SA376 TP304 SCH 160
4" SA376 TP316 SCH 120 SEAMLESS
FITTING
2" SCH 160 SA 182 F304
4" SCH 120 SA 405 F316 SEAMLESS
FLANGE
2" SA 182 F316

ASME CC-2 (EQUIVALENT)

4" PIPE CAP & 2" BOSS

SIS-316B

SIS-316

SI-1979 (SOCKET WELD)

SI-1978 (SOCKET WELD)

(SOCKET WELD) SI-1977
SI-1967
2-TE-63-159
SI-1958
(SOCKET WELD) SI-1957
2-63-548
(SOCKET WELD) SI-1956
(SOCKET WELD) SI-1955

FAN ROOM NO. 1

SIS-314

SIS-315

SIF-192

EL 718'-0"

SIS-313

SIF-191

EL 710'-0"

SIS-312

SIS-311

SIS-310

SIF-190B

SIF-190

EL 705'-6"

SIS-309

SIF-190A

SIS-307

SIF-189

SIS-306

SIS-305

SIS-304

EL 705'-6"

SIS-303

SIF-188

MATCH LINE B

PEN X-21

SHEET 3

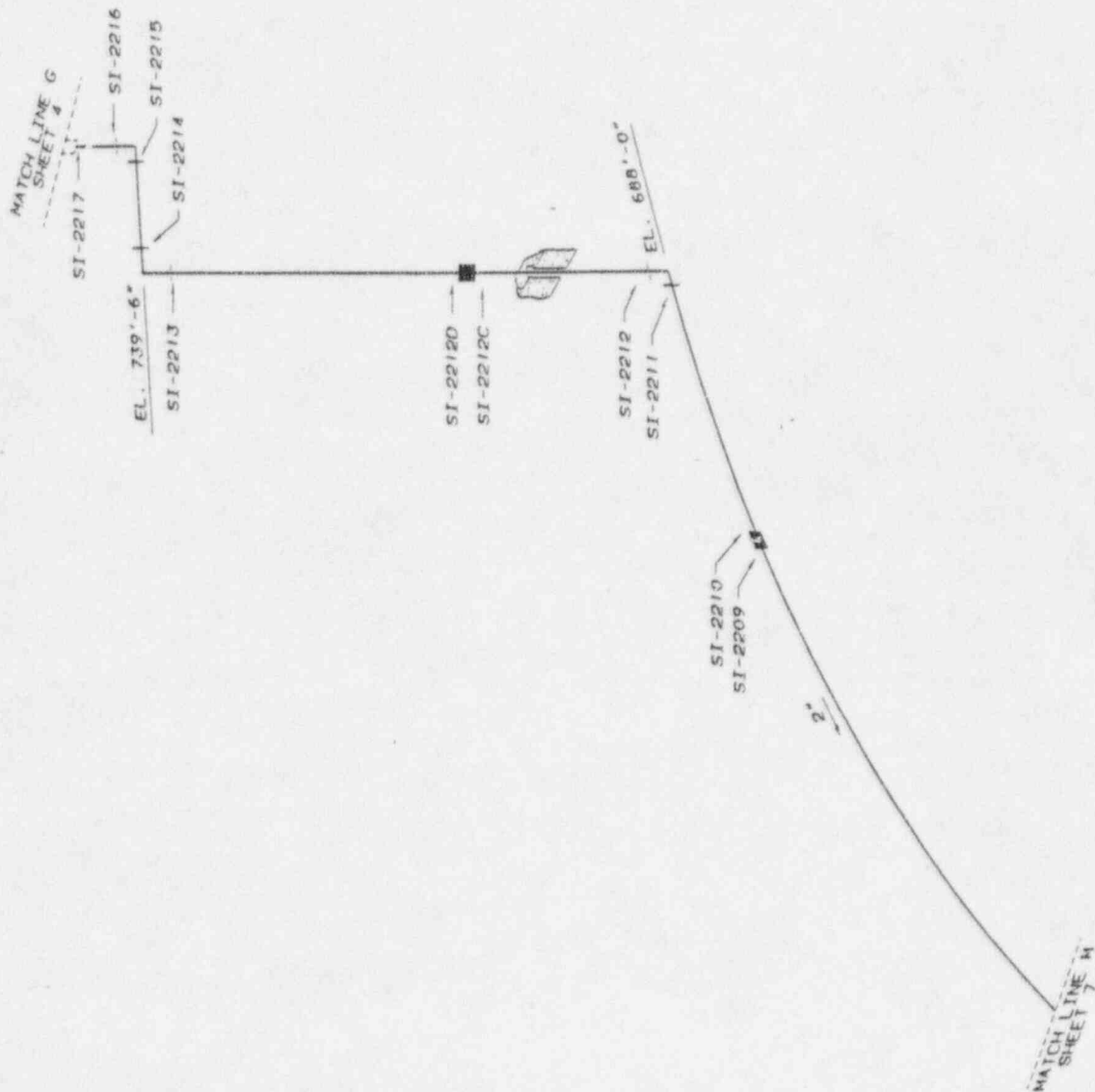
ACCUMULATOR ROOM NO. 4

REV	BY	CHANGED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12/1/83	SCALE	NOT TO SCALE	
CHECKED BY	DATE	12/1/83	APPROVED BY	DATE	12/1/83
SUBMITTED BY	DATE	12/1/83	PROJECT NO.	ISI-0431-C-05	00

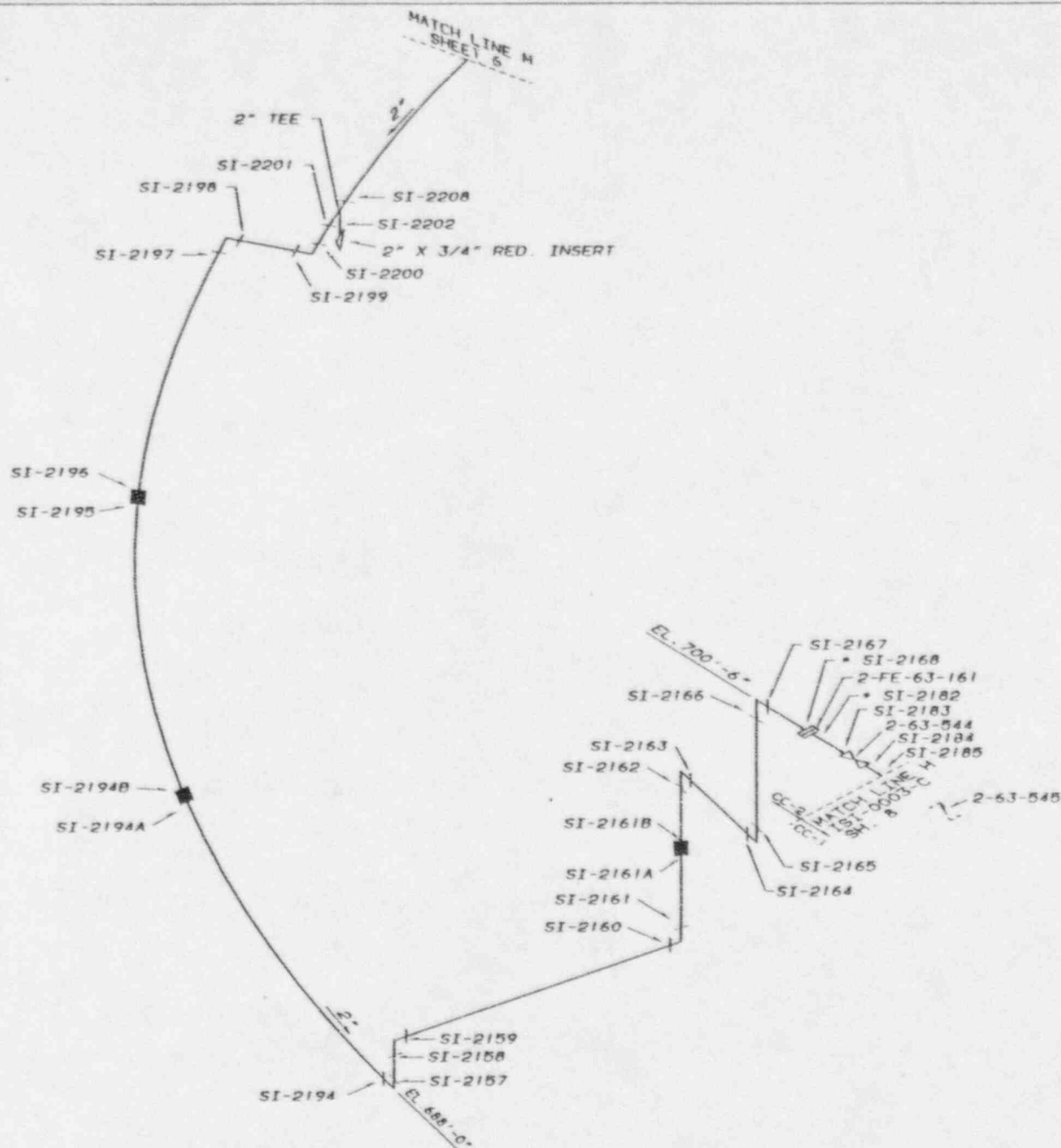
REFERENCE DRAWINGS
2-SI-509-2W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 SA376 TP304
FITTINGS
2" 6000# SA192 F304
ASME CC-2 (EQUIVALENT)



REV	BY	DATE	REVISION	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DESIGN AND	DATE 12-14-85	SCALE 1/8" = 1'-0"	SCALE 1/8" = 1'-0"	SCALE 1/8" = 1'-0"	SCALE 1/8" = 1'-0"
CHECKED JTB	APPROVED JTB	DATE 12-14-85	APPROVED JTB	DATE 12-14-85	APPROVED JTB
REVISION 1	DATE 12-14-85	SCALE 1/8" = 1'-0"	SCALE 1/8" = 1'-0"	SCALE 1/8" = 1'-0"	SCALE 1/8" = 1'-0"
ISI-7431-C-06					



REFERENCE DRAWINGS:

2-SI-509-1W
2-SI-509-2W

MATERIAL SPECIFICATIONS:

PIPE

2" SCH 160 SA376 TP304

FITTINGS

2" 6000# SA182 F304

FLANGE

2" 1500# SA182 F316

ASME CC-2 (EQUIVALENT)

NOTE

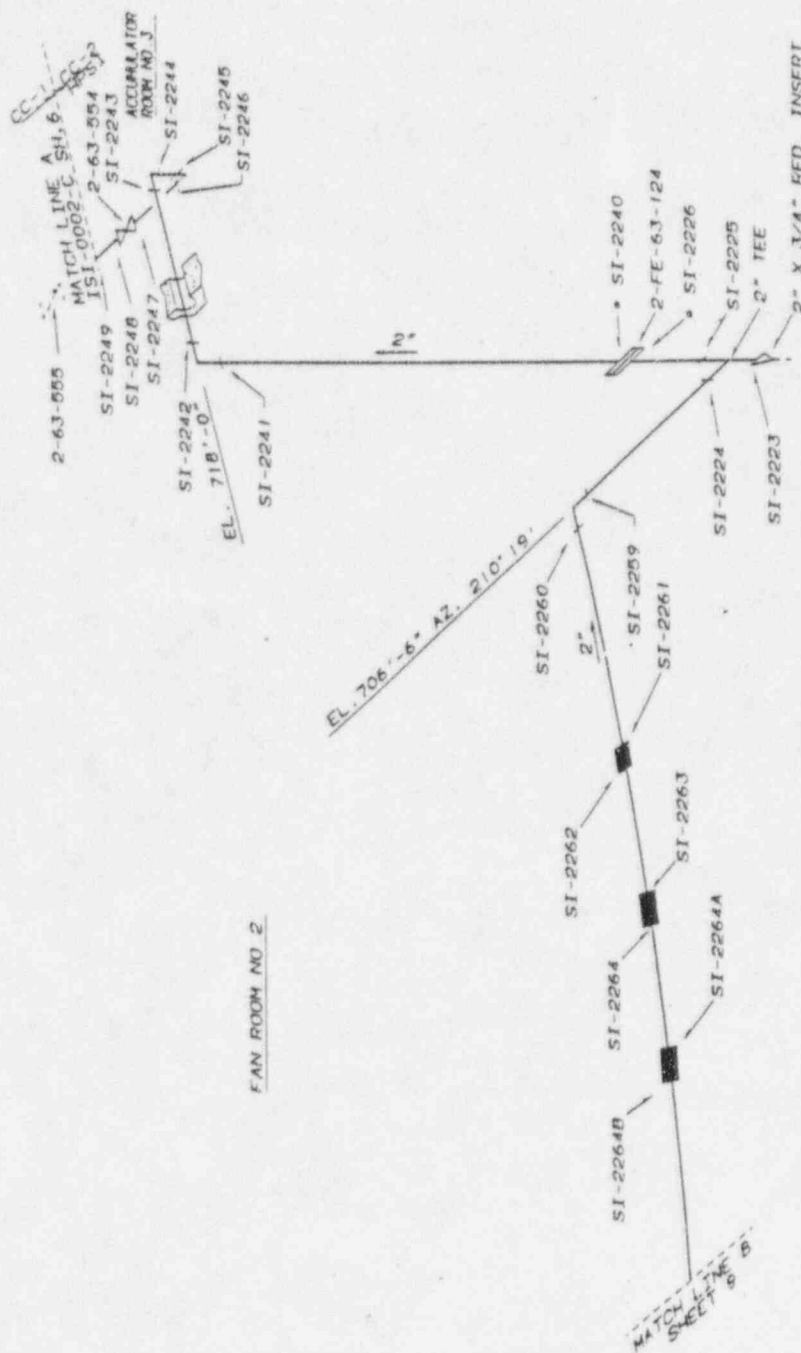
1. * - BUTT WELD

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRWN	BY	DATE 12-16-13	SCALE NOT TO SCALE		
CHECKED	BY	APPROVED	CAD MAINTAINED DRAWING		
SUBMITTED	BY	DATE 12-16-13	SCALE NOT TO SCALE		

REFERENCE DRAWINGS:
2-SI-510-1M
2-SI-510-2M

MATERIAL SPECIFICATIONS:	
PIPE	
2" SCH 160	SA-376 TP 304
FITTINGS	
2" 6000#	SA-182 F304
FLANGE	
2" 1500#	SA182 F316
ASME CC-2 (EQUIVALENT)	

NOTE
1 • - BUTT WELD



DATE	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUJOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
REVISION NO.	CHECKED BY	DATE	12 - 16 - 93	SCALE	NOT TO SCALE
1	W. J. BROWN	12 - 16 - 93	APPROVED <i>WJB</i>	CAN INJECTED PRESSURE	100
2	W. J. BROWN	12 - 16 - 93	APPROVED <i>WJB</i>	CAN INJECTED PRESSURE	100

A-7545
2-SI-507-1W
2-SI-510-2W

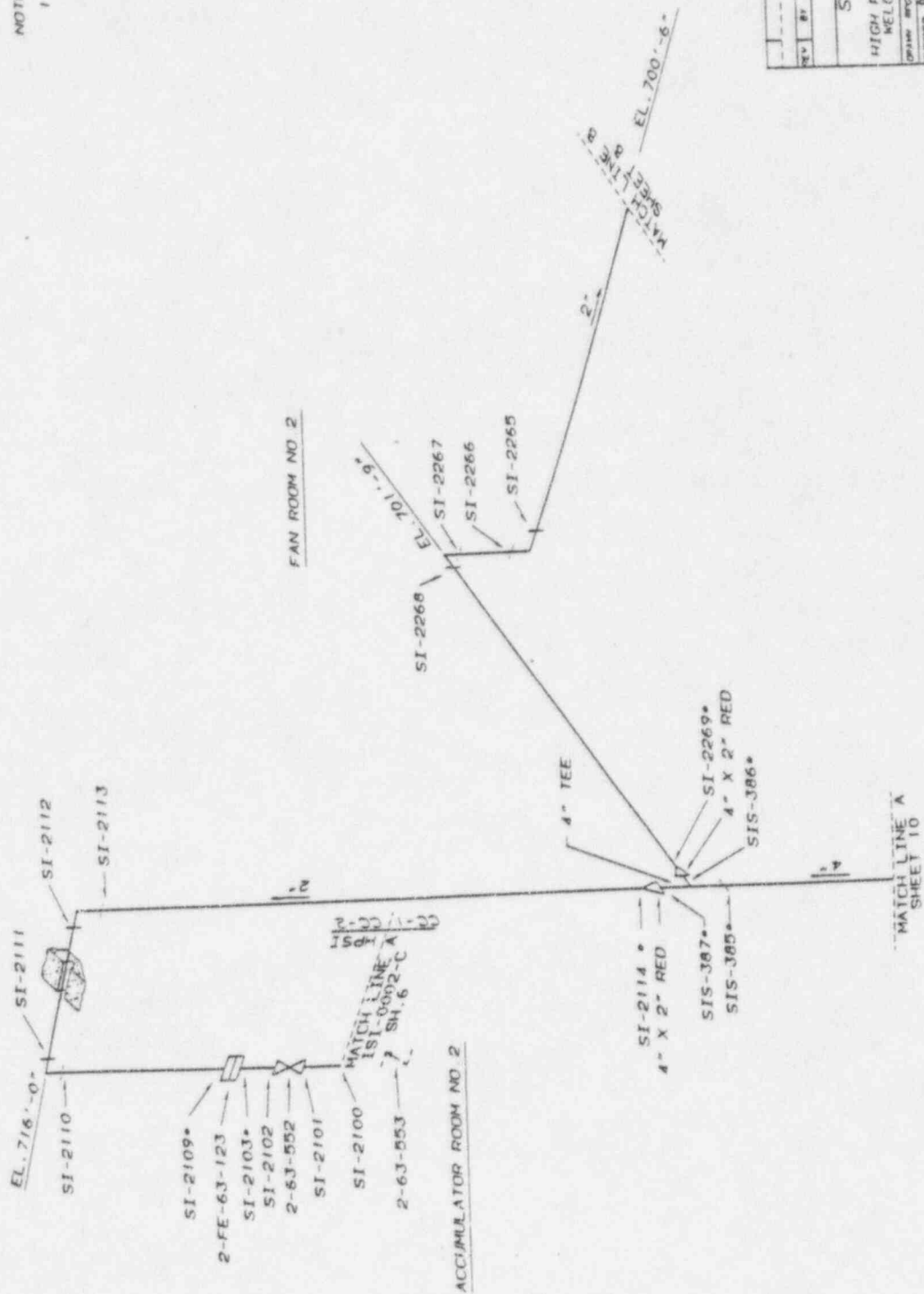
MATERIAL SPECIFICATIONS:

PIPE	160 SA-376	IP 304
2" SCH	120 SA-376	IP 304
4" SCH		
FITTINGS	SA-182 F304	
2" 6000#	120 SA-403	WP316
4" SCH		
FLANGE	SA-182 F316	
2" 1500#		

ACME CC-2 (EQUIVALENT)

NOTE

1. • - BUTT WELD

[illegible]

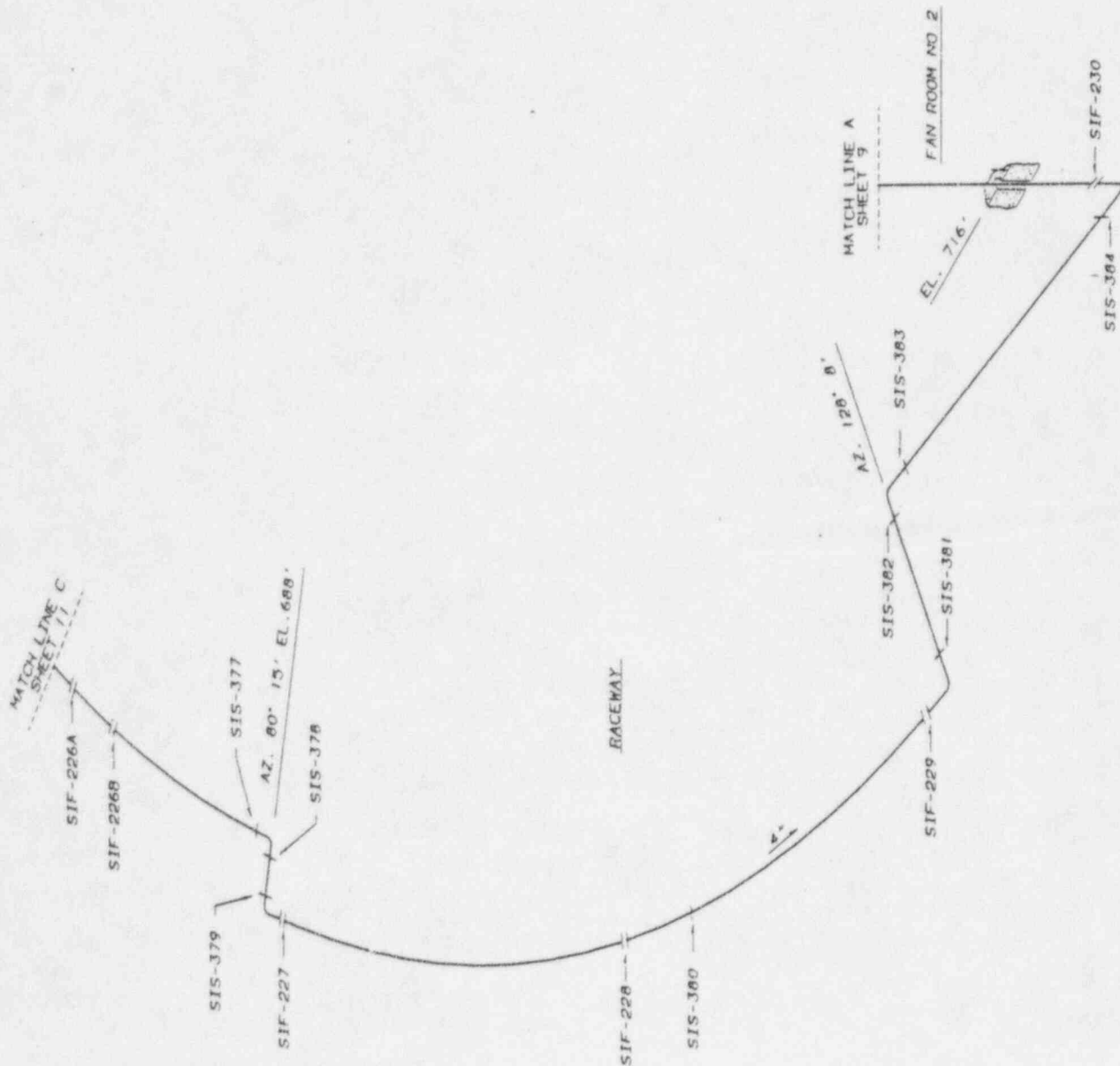
REFERENCE DRAWINGS:
A-7545

MATERIAL SPECIFICATIONS:

PIPE 4" SCH 120 SA-376 TP 316 SEAMLESS

FITTINGS 4" SCH 120 SA-403 WP316 SEAMLESS

ASME CC-2 (EQUIVALENT)



REV. BY CHECKED SUBMITTED APPROVED DATE

TENNESSEE VALLEY AUTHORITY

SECOYAH NUCLEAR PLANT

UNIT 2

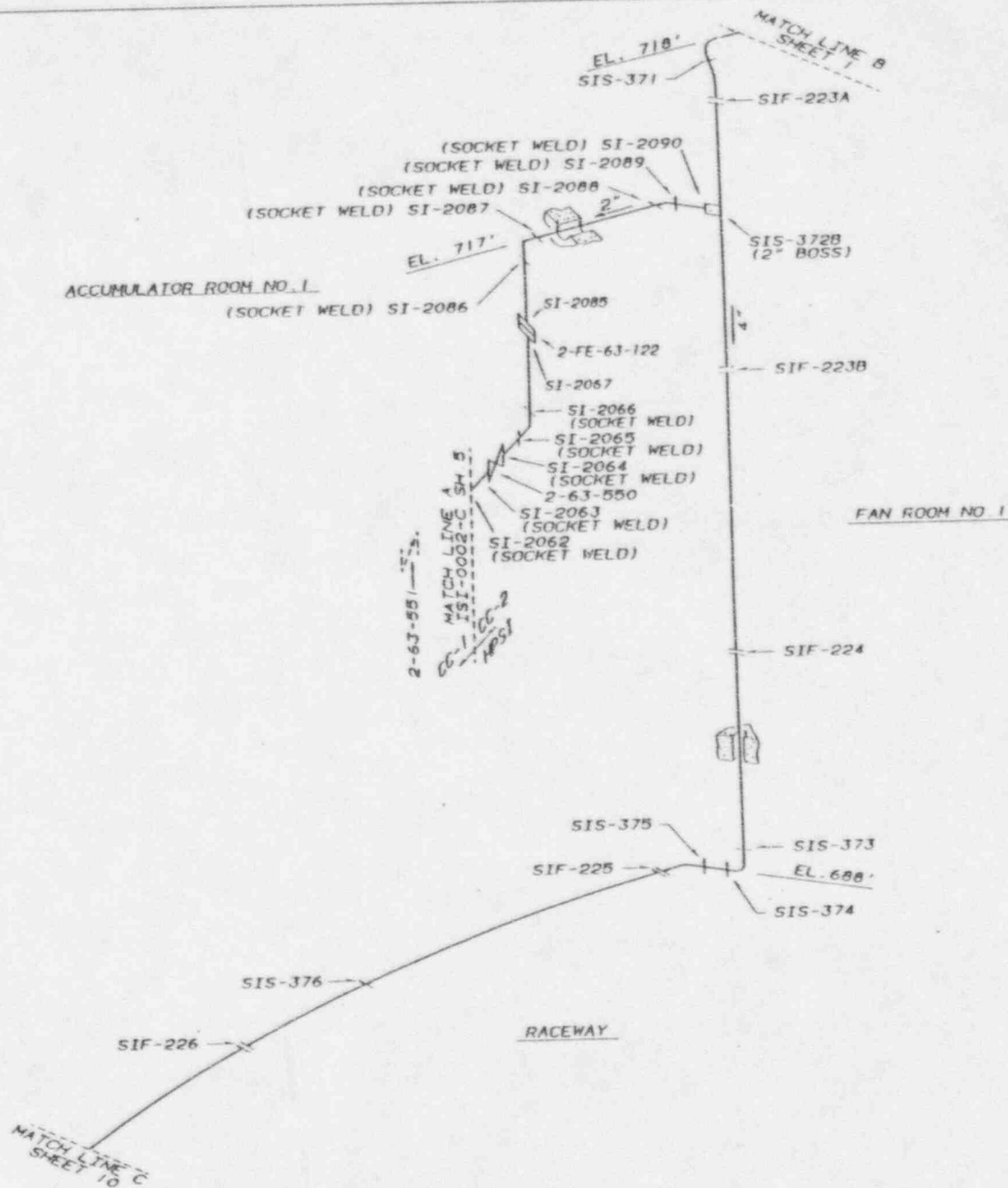
HIGH PRESSURE SAFETY INJECTION SYSTEM

WELD LOCATIONS (SAFETY INJECTION)

DESIGNED BY DATE 12-18-75 SCALE 1/4" = 1'-0"

CHECKED BY APPROVED BY CAD MANIPULATED DATE

SUBMITTED BY 151-0431-C-10 100



REFERENCE DRAWINGS:
A-7545
2-SI-506-1W

MATERIAL SPECIFICATIONS:
PIPE
2" SCH 160 SA-312 TP 304
4" SCH 120 SA-378 TP 316
FITTINGS
2" 6000# SA-182 F304
4" SA-403 WP 316
FLANGE
2" 1500# SA-182 F316
ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE 11-28-75		SCALE 1/8" = 1'-0"		
CHECKED BY	APPROVED <i>HLW</i>		CAD MAINTAINED DRAWING BY		
SUBMITTED BY	ISI-0431-C-11			00	

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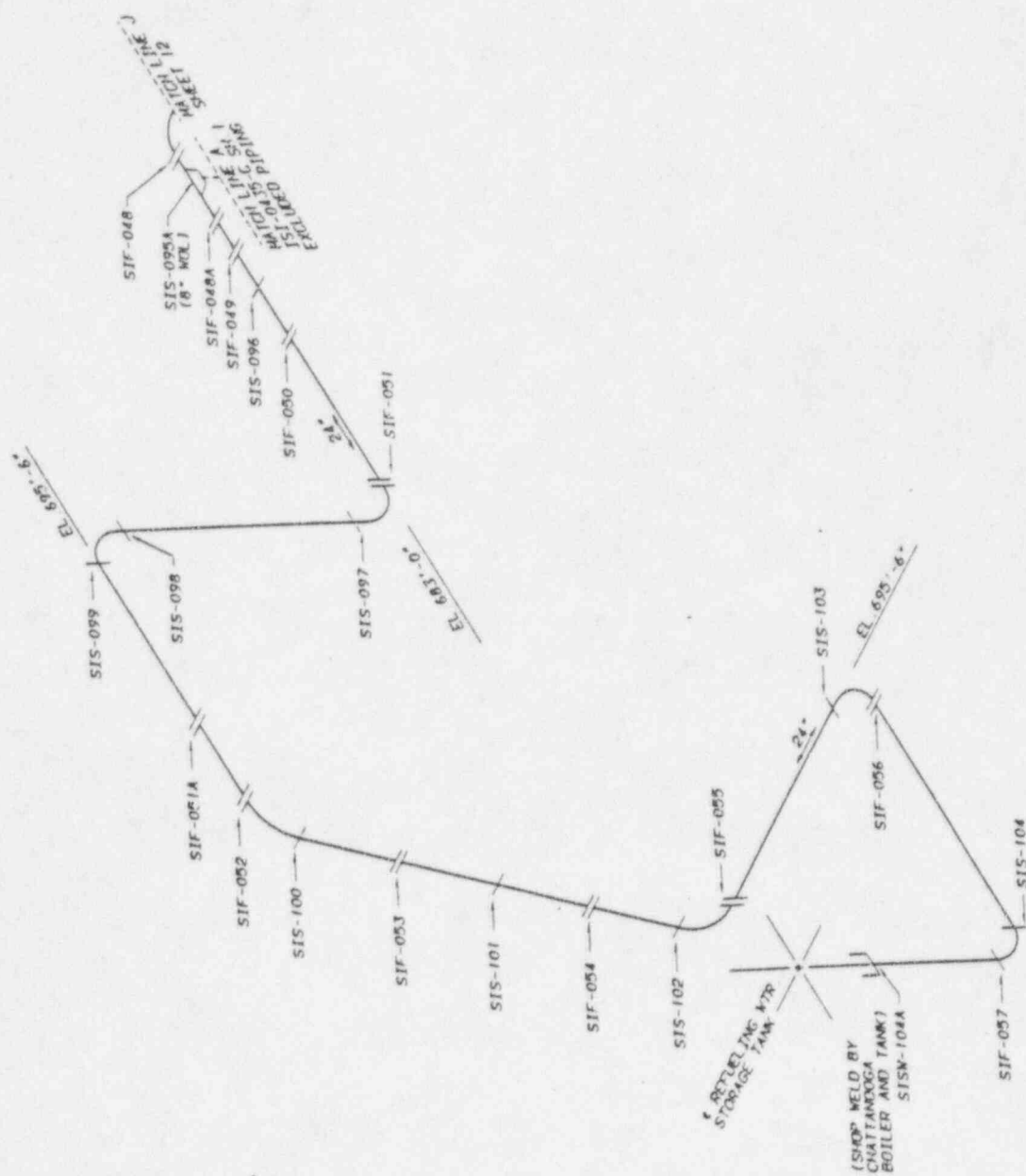
UNIT	MATERIAL SPECIFICATIONS
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PIPE
24" SCH 40S A-350 TP304

FITTINGS

8" WOL SA-182 F 304
24" SCH 40S SA-403 WP304

ASME CC-2 (EQUIVALENT)



DATE	APPROVED	SUBMITTED	CHECKED	BY	TSY
TENNESSEE VALLEY AUTHORITY					
SENOJOAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTIONS)					
DRAMAN RWS	DATE 12-18-93	SCALE NOT TO SCALE	APPROVED JWW	CND MAINTAINED GRAPHIC	RVS
CHECKED BJA					
UNSUBMITTED					
				ISI-0431-C-13	
				00	

REFERENCE DRAWINGS
A-7438, A-7441, A-7571,
2-UP1-001W

MATERIAL SPECIFICATIONS

PIPE

4" SCH 40S SA312 TP304 SEAMLESS

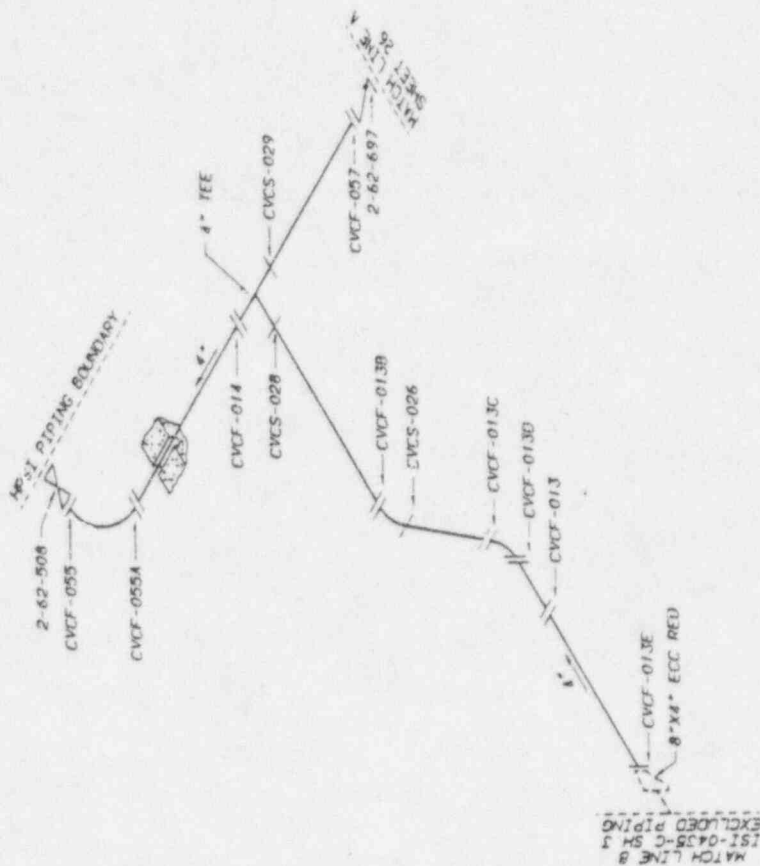
FITTINGS

8"X4" ECC RED SCH 40S

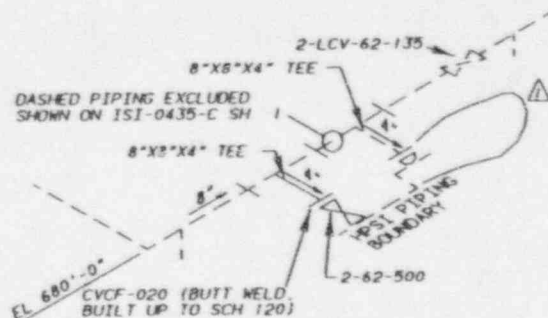
A-403 WP304W

4" SCH 40S A403 WP304W WELDED

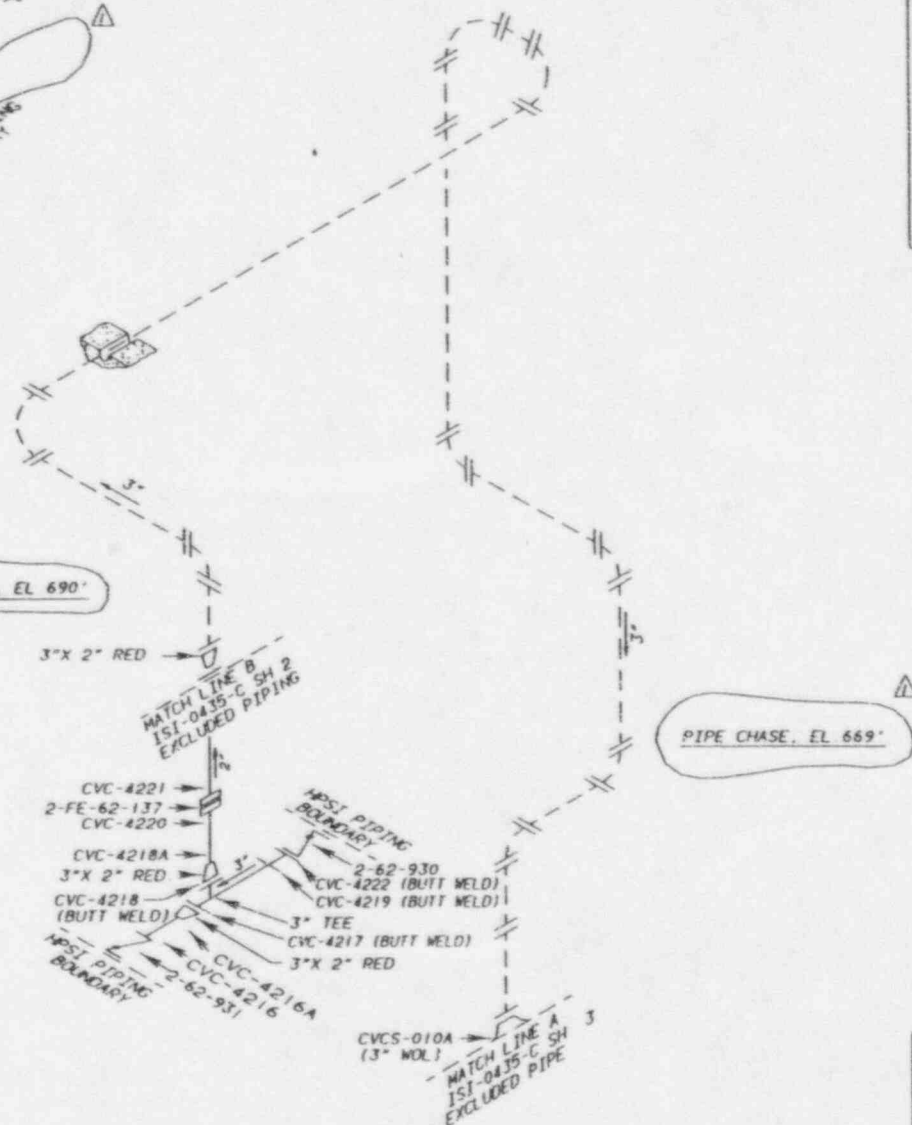
ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	DATE	APPD	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY SECTION SYSTEM					
WELD LOCATIONS: TYPICAL, AND OTHERS, CIP-102					
DESIGN	ENG	CHKD	DATE	APPD	DATE
PROJECT NO. 151-0431-C-14					
SHEET NO. 00					



△
PENETRATION ROOM, EL 690'



REFERENCE DRAWINGS

A-7438
0-CCM-4
0-CVCS-29

MATERIAL SPECIFICATIONS

PIPE

SA312 TP304
4" & SMALLER STD WT

FITTINGS

2" 3000# A182 F304
3" SA403 WP304 SCH 40
3" WELDOLET A182 F304 SCH 40S
8"X8"X4" TEE SCH 40
4" OUTLET C129 BUILT-UP
TO SCH 120
SA403 WP304 WELDED

FLANGES

SA182 F304

ASME CC-2 (EQUIVALENT)

1	REV	DATE	BY	CHKD	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY							
SEOUJOYAH NUCLEAR PLANT							
UNIT 2							
HIGH PRESSURE SAFETY INJECTION SYSTEM							
WELD LOCATIONS (CHEMICAL AND VOLUME CONTROL)							
DRAWN	RPG	DATE	12-18-95	SCALE	NOT TO SCALE		
CHECKED	JCG	APPROVED	GLW	CAD	MAINTAINED DRAWING		
SUBMITTED	FRS	ISI-0431-C-15					01

REFERENCE DRAWINGS
 A-7439, A-7441, A-7442
 CONTRACT NO. 91934
 MODEL 2 1/2-RLIJ-11 STAGE

MATERIAL SPECIFICATIONS

PIPE

4" SCH 120 A376 TP316 SEAMLESS
 3" SCH 160 A376 TP304 SEAMLESS

FITTINGS

4" SCH 120 A403 WP316 SEAMLESS
 3" SCH 160 A403 WP316 SEAMLESS
 2" SCH 160 A182 F304

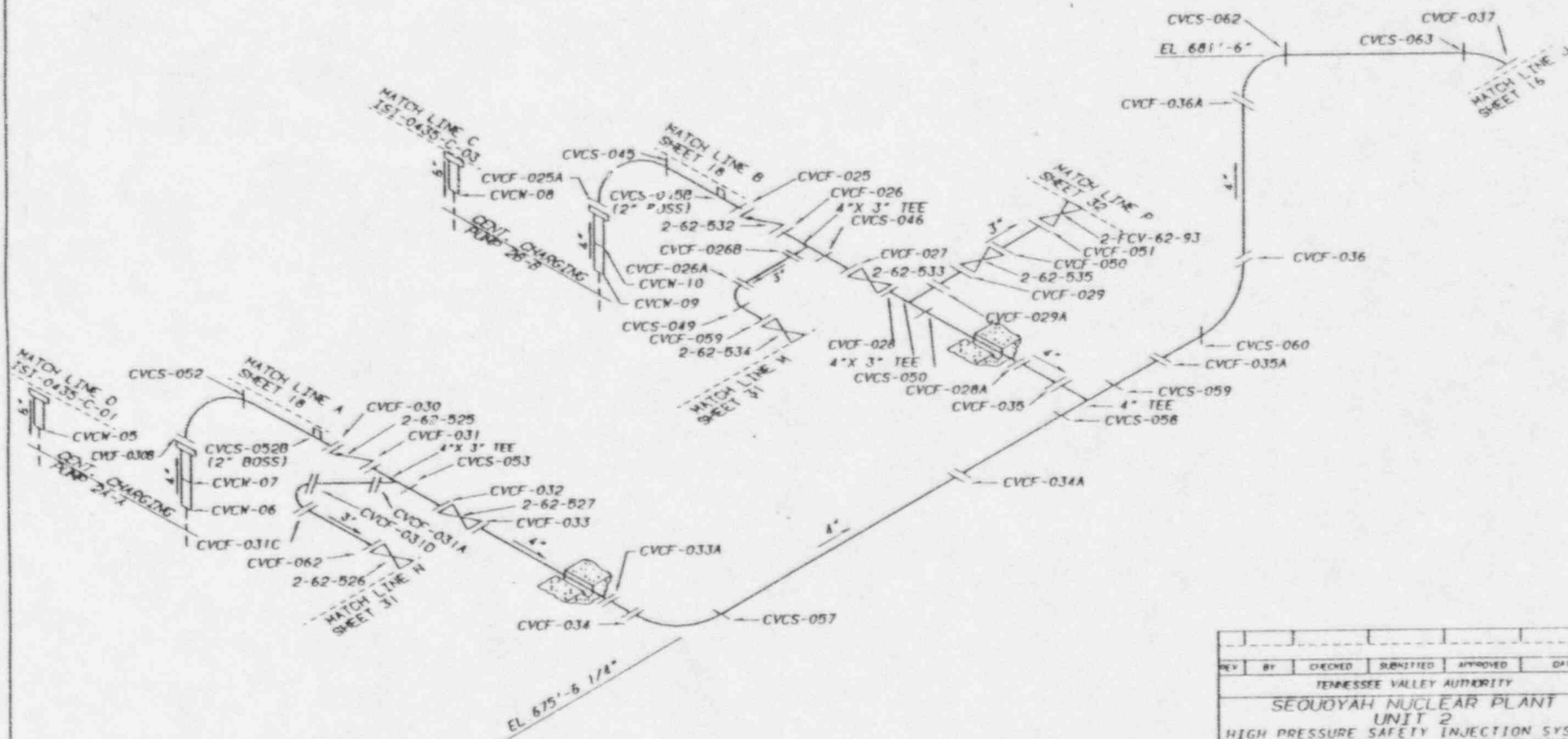
FLANGES

A182 F316

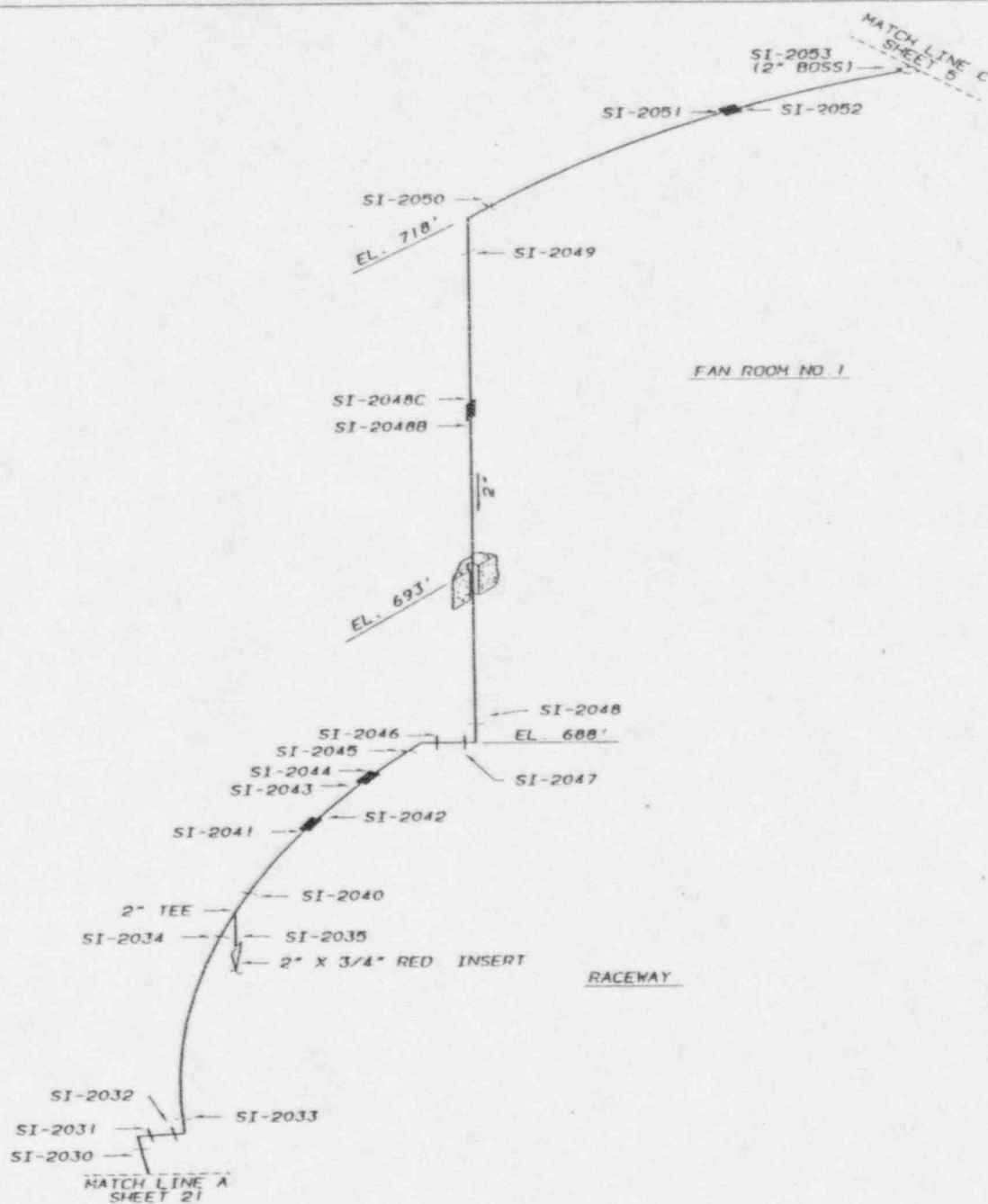
6" SUCTION NOZZLE A182 F304
 WALL THICKNESS = 0.75"

4" DISCHARGE NOZZLE AND PIPE SECTION
 A182 F304 WALL THICKNESS = 0.90"

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CHEMICAL AND VOLUME CONTROL)					
DRAWN BY	DATE	11-16-81	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	JHW	CAD	MAINTAINED DRAWING	REV
SUBMITTED	DATE	11-16-81	SCALE	NOT TO SCALE	



REFERENCE DRAWINGS
2-SI-505-2W

MATERIAL SPECIFICATIONS
PIPE

2" SCH 160 SML SS
SA 376 TP 304

FITTINGS

2" (000# SA-182 F304

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	11-18-95	SCALE	1:1 TO SCALE	
CHECKED BY	APPROVED	W	CAD MAINTAINED	ORANGE	REV
SUBMITTED	2W	ISI-0431-C-20	00		

REFERENCE DRAWINGS
2-SI-505-2W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 SM_{LS} SS
SA 376 TP 304

FITTINGS

2" 6000# SA-182 F304

ASME CC-2 (EQUIVALENT)

MATCH LINE A
SHEET 20

SI-2029
SI-2028

SI-2027
SI-2026

EL. 688

SI-2023

SI-2022

SI-2025

SI-2024

SI-2021

SI-2020

EL. 693

MATCH LINE B
SHEET 22

RACEWAY

REV	BY	DATE	DESIGNED	REVIEWED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY						
SECOYAH NUCLEAR PLANT						
UNIT 2						
HIGH PRESSURE SAFETY INJECTION SYSTEM						
WELD LOCATIONS (SAFETY INJECTION)						
DESIGNED BY	DATE	12/18/85	SCALE	NOT TO SCALE		
CHECKED BY	APPROVED BY	WJW	CD	REGISTERED DRAWING		
SUBMITTED BY	ISI-0431-C-21					
						00

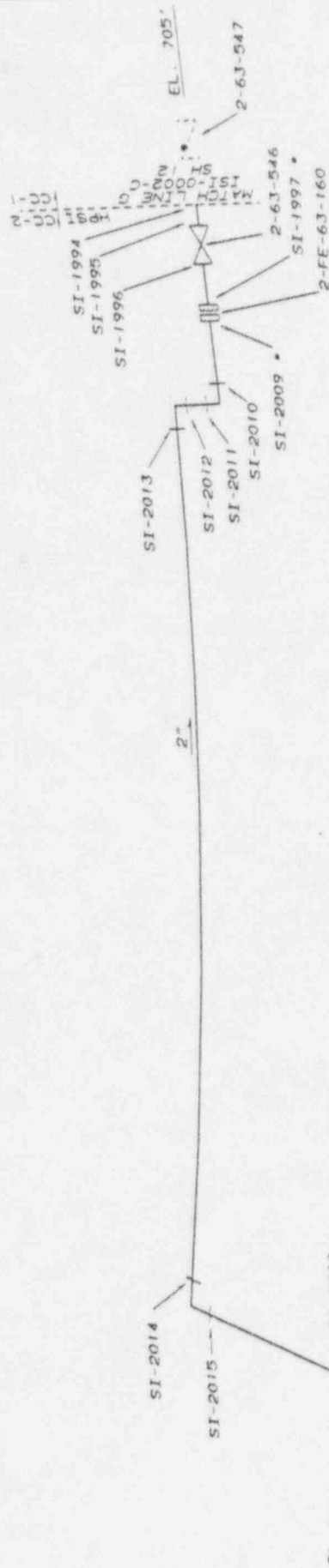
REFERENCE DRAWINGS
2-SI-505-1W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 SML SS
SA 376 TP 304
FITTINGS
2" 6000# SA-182 F304
FLANGE
2" 1500# SA-182 F316

ASME CC-2 (EQUIVALENT)

NOTES
1. - BUTT WELD



FAN ROOM NO. 2

REV	BY	CHECKED	REVISION	DATE
1				
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 2				
HIGH PRESSURE SAFETY INJECTION SYSTEM				
WELD LOCATIONS (SAFETY INJECTION)				
DESIGNED BY	DATE	SCALE	NOT TO SCALE	
CHECKED BY	DATE	SCALE	NOT TO SCALE	
SUBMITTED BY	DATE	SCALE	NOT TO SCALE	
ISI-0431-C-22				
00				

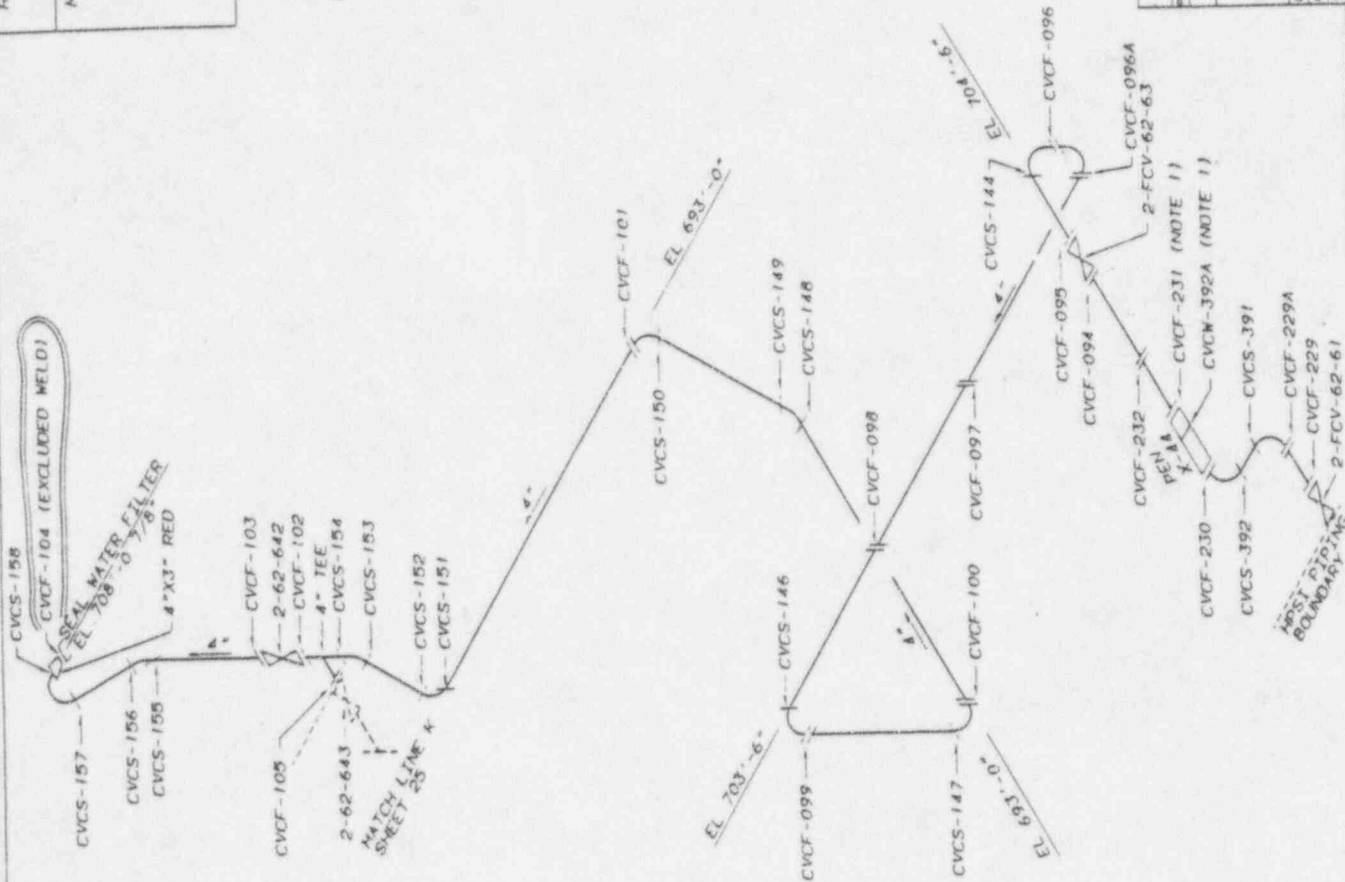
REFERENCE DRAWINGS
A-7446, A-7553
CONTRACT 92615 DWG 74229-C7 0

MATERIAL SPECIFICATIONS

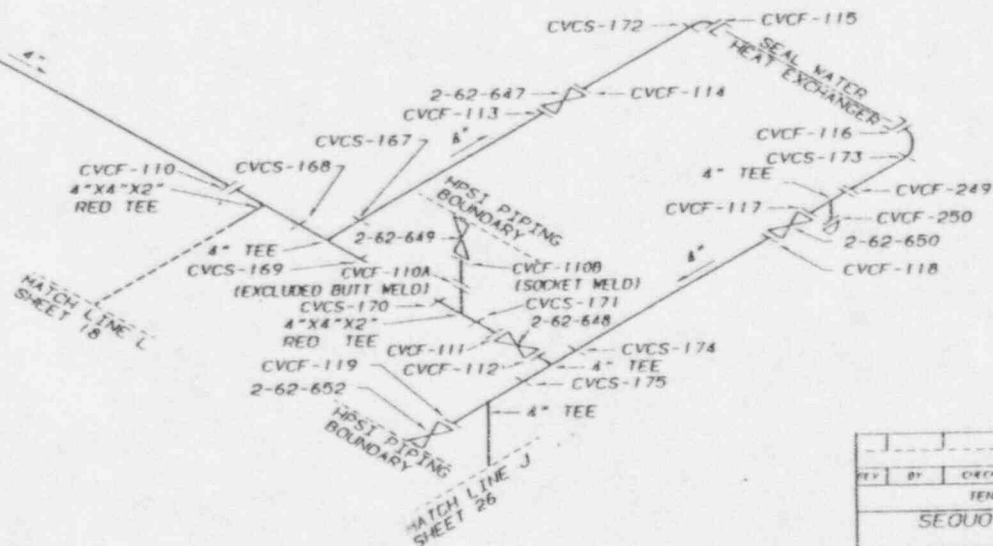
PIPE SCH 40S A3.2 TP304 SEAMLESS
FITTINGS
4" SCH 40S A403 WP304 WELDED
4"x3" CONC. RED
SCH 40S S4403 WP304 WELDED
3" END CTBR TO SCH 10S

ASME CC-2 (EQUIVALENT)

NOTE
1. WELDS CVCF-231 AND CVCM-392A
ARE PIPE TO FLUED HEAD WELDS



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEJOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DESIGNED BY	DATE	APPROVED	DATE	SCALE	NOT TO SCALE
CHECKED BY	DATE	APPROVED	DATE	SCALE	NOT TO SCALE
SUBMITTED BY	DATE	APPROVED	DATE	SCALE	NOT TO SCALE



ASME CC-2 (EQUIVALENT)

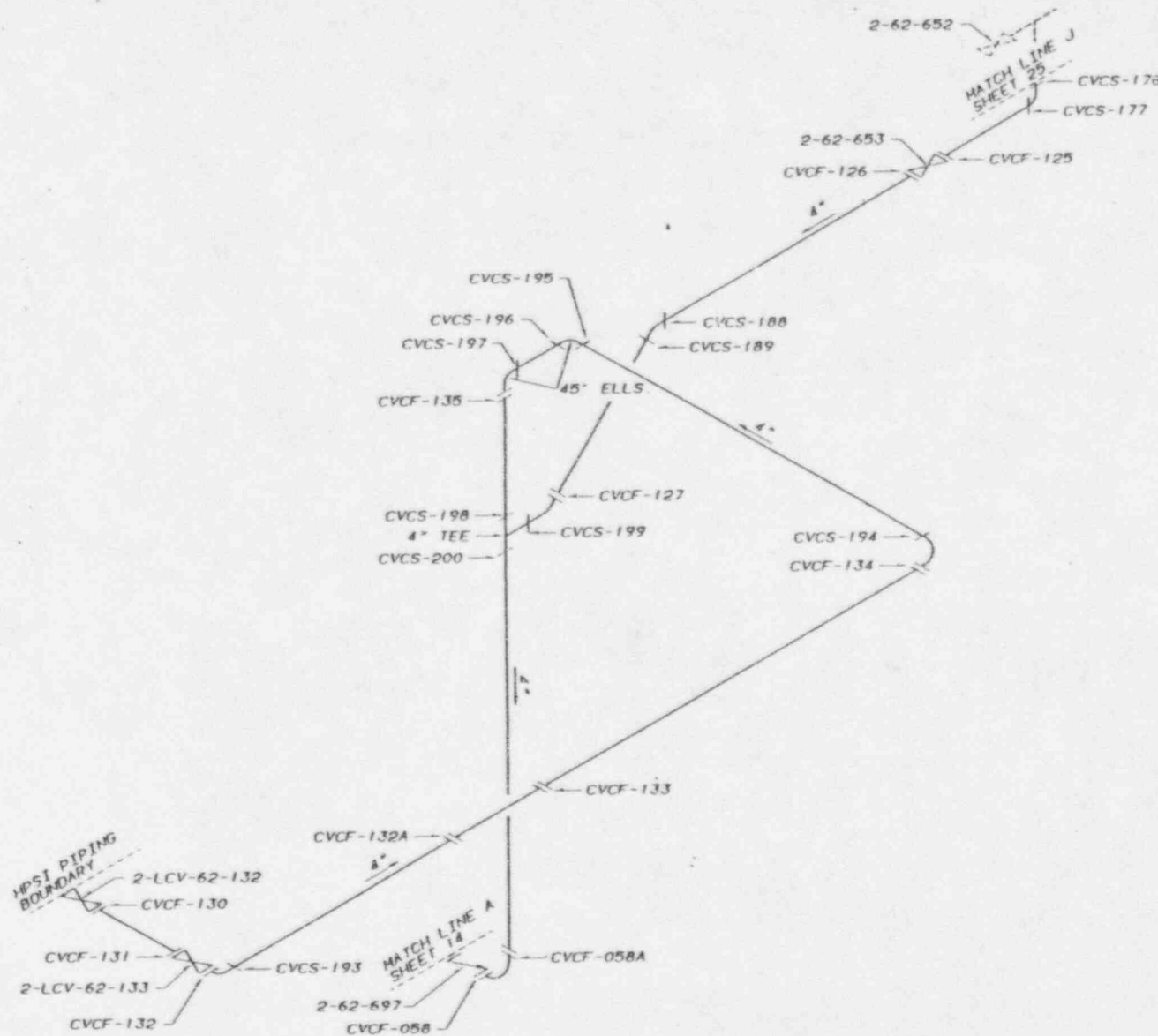
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT UNIT 2 HIGH PRESSURE SAFETY INJECTION SYSTEM WELD LOCATIONS (CWCS)					
DRAWN BY CHECKED BY SUBMITTED		DATE 12-18-78 APPROVED <i>[Signature]</i> ISI-0431-C-25		SCALE 10" = 10' SCALE CAD MAINTENANCE DRAWING 00	

REFERENCE DRAWINGS
A-7448

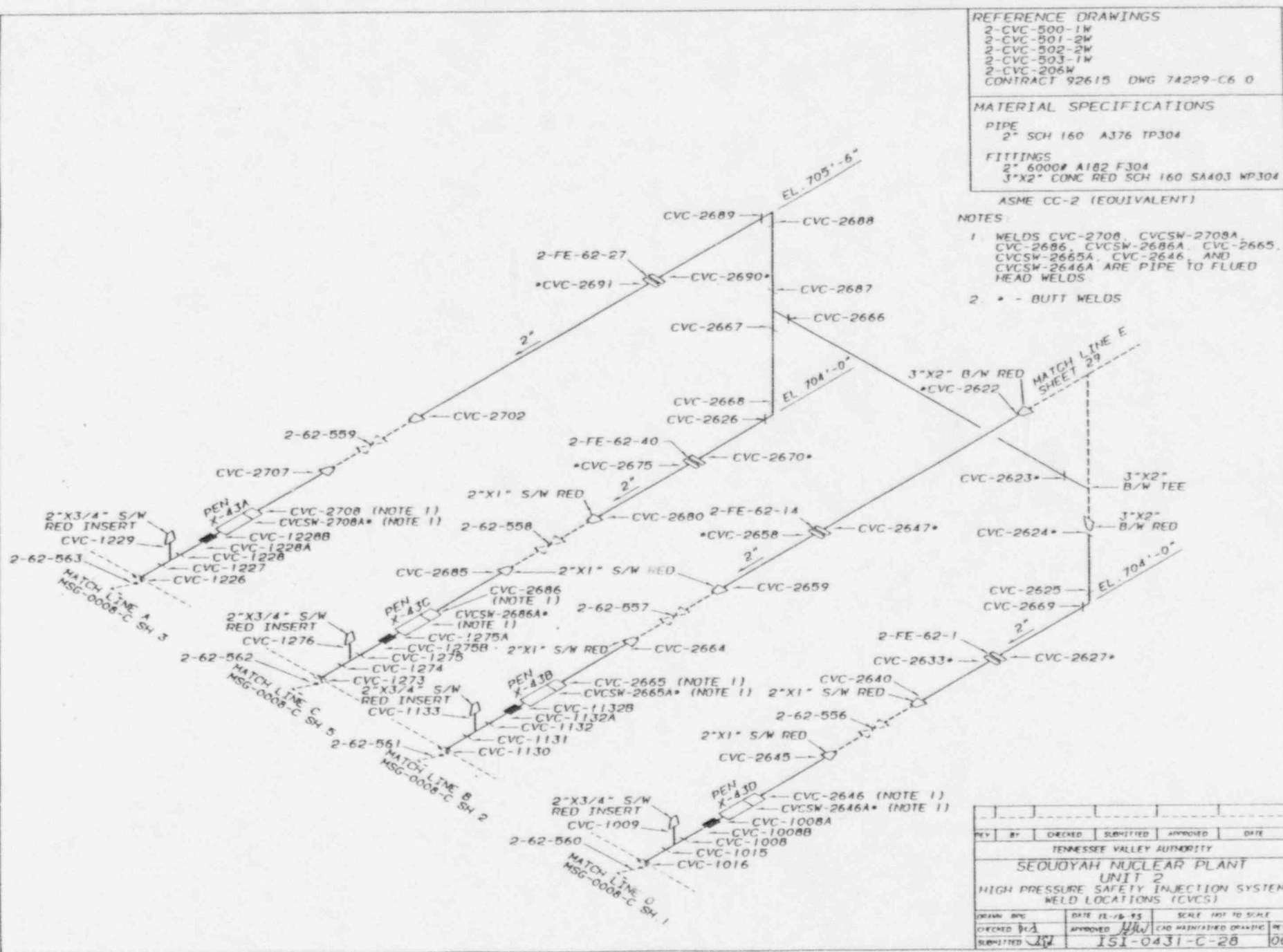
MATERIAL SPECIFICATIONS

PIPE
4" SCH 40S A312 TP304 SEAMLESS

FITTINGS
4" SCH 40S A403 WP304W WELDED
ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	FL-76-45	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	WV	CAD MAINTAINED DRAWING	REV	
SUBMITTED	DATE	ISI-0431-C-26			00



REFERENCE DRAWINGS
 2-CVC-500-1W
 3-CVC-501-2W
 3-CVC-502-2W
 3-CVC-503-1W
 2-CVC-206W
 CONTRACT 92615 DWG 74229-C6 0

MATERIAL SPECIFICATIONS
 PIPE
 2" SCH 160 A376 TP304
 FITTINGS
 2" 6000# A182 F304
 3"x2" CONC RED SCH 160 SA403 WP304
 ASME CC-2 (EQUIVALENT)

NOTES:
 1 WELDS CVC-2708, CVC-2708A, CVC-2686, CVC-2686A, CVC-2665, CVC-2665A, CVC-2646, AND CVC-2646A ARE PIPE TO FLUED HEAD WELDS.
 2 * - BUTT WELDS

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCs)					
DRAWN BY	DATE	11-16-95	SCALE	1" = 10' TO SCALE	
CHECKED BY	DATE	11-16-95	APPROVED	CWO MAINTAINED DRAWING	
SUBMITTED	DATE	11-16-95	151-0431-C-28	00	

REFERENCE DRAWINGS

A-7445

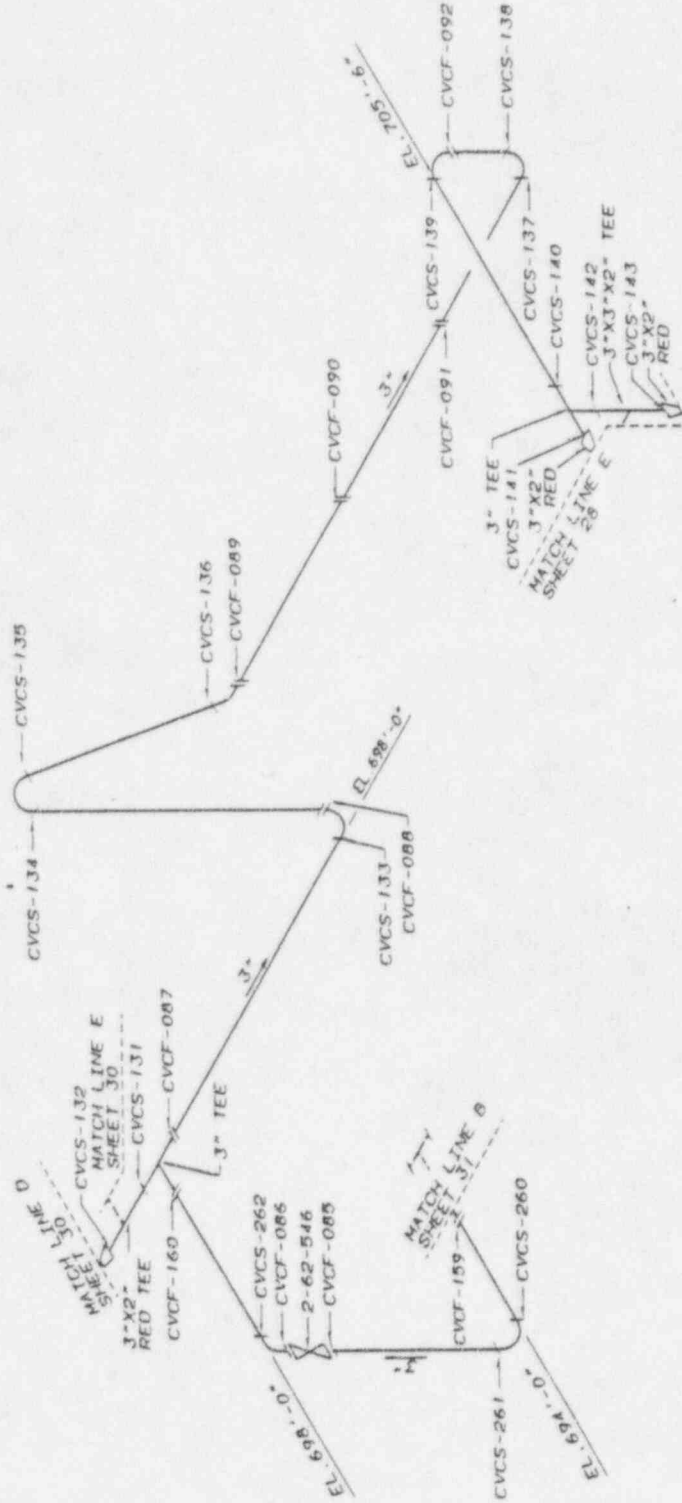
MATERIAL SPECIFICATIONS

PIPE SCH 160 A376 TP304 SEAMLESS

FITTINGS 3" SCH 160 A403 WP304

3"X2" CON RED SCH 160 SA403 WP304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE		
TENNESSEE VALLEY AUTHORITY							
SEQUOYAH NUCLEAR PLANT							
UNIT 2							
HIGH PRESSURE SAFETY INJECTION SYSTEM							
WELD LOCATIONS (CVCS)							
DATE	12-14-93	SCALE	NOT TO SCALE				
DESIGNED BY	HA	APPROVED BY	HA				
CHECKED BY	HA	DATE	12-14-93	ISI-0431-C-29			
SUBMITTED BY	HA						
00							

REFERENCE DRAWINGS
2-CVC-220W, 2-CVC-221W

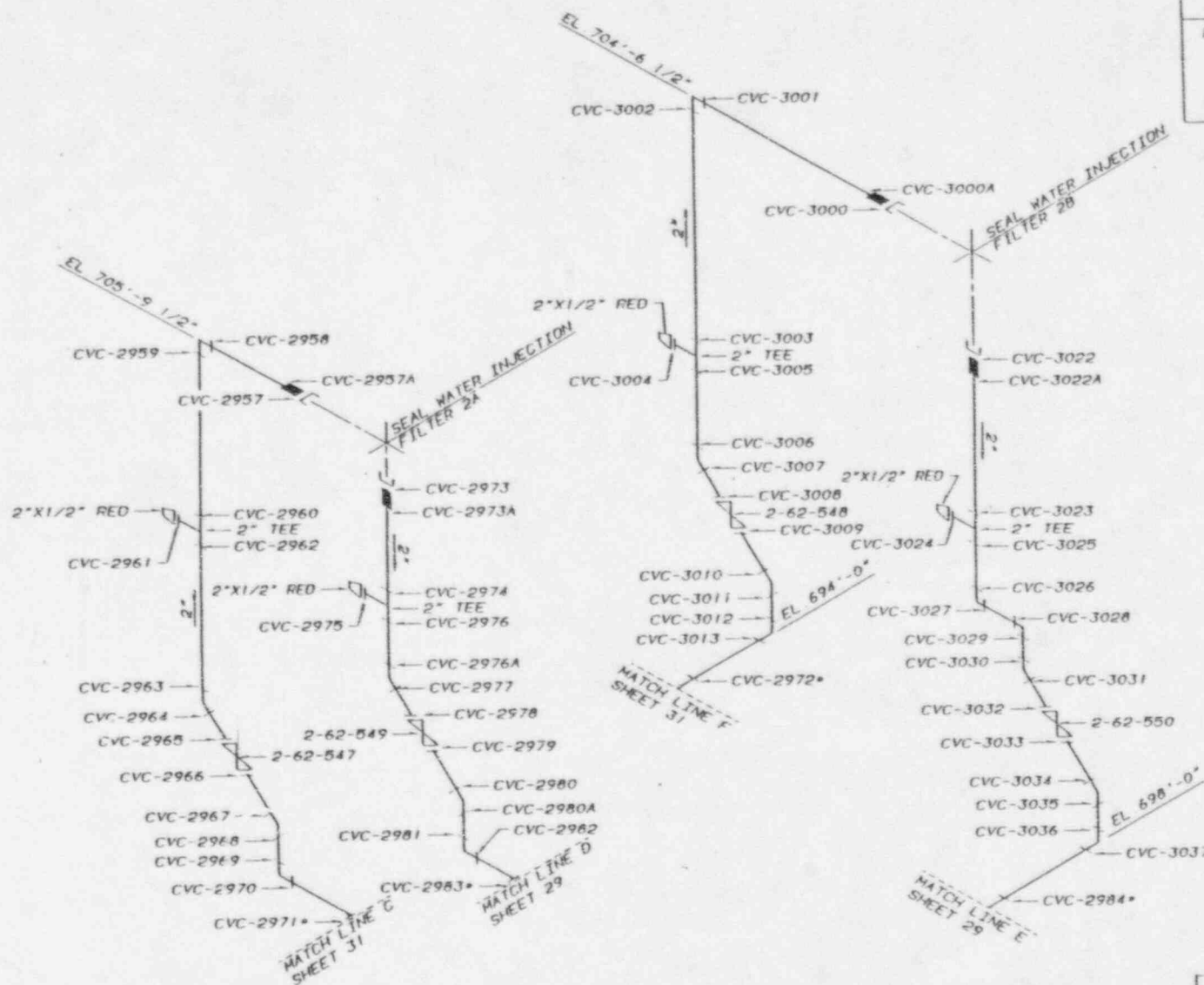
MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 A376 TP304

FITTINGS
2" 6000# A182 F304

ASME CC-2 (EQUIVALENT)

NOTE
1 * - BUTT WELD



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVC'S)					
DRAWN BY	DATE	22-16-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	WV	CAD	REGISTERED DRAWING	REV
SUBMITTED	27	ISI-0431-C-30	00		

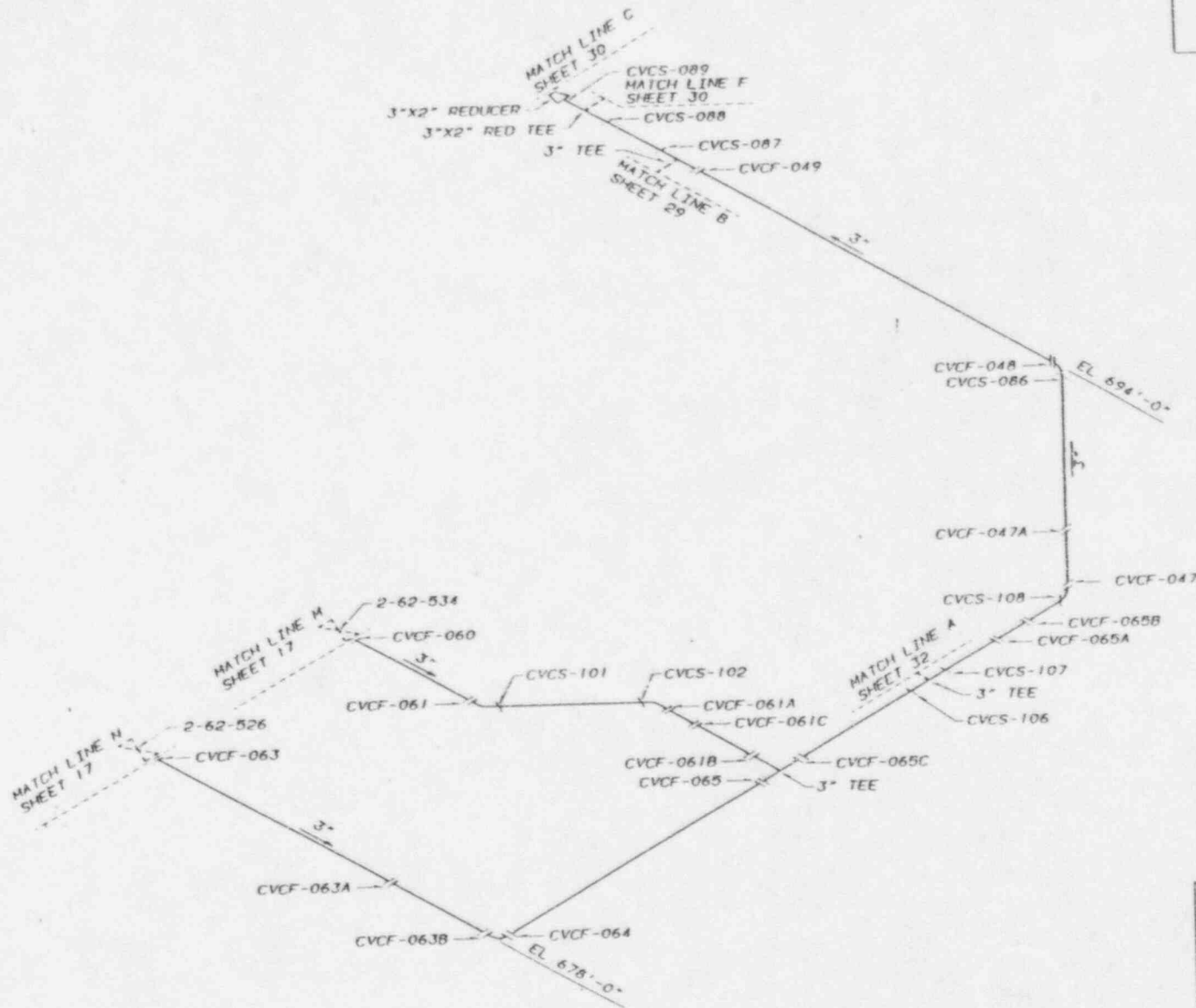
REFERENCE DRAWINGS
A-7440, A-7442

MATERIAL SPECIFICATIONS

PIPE
3" SCH 160 A376 TP304 SEAMLESS

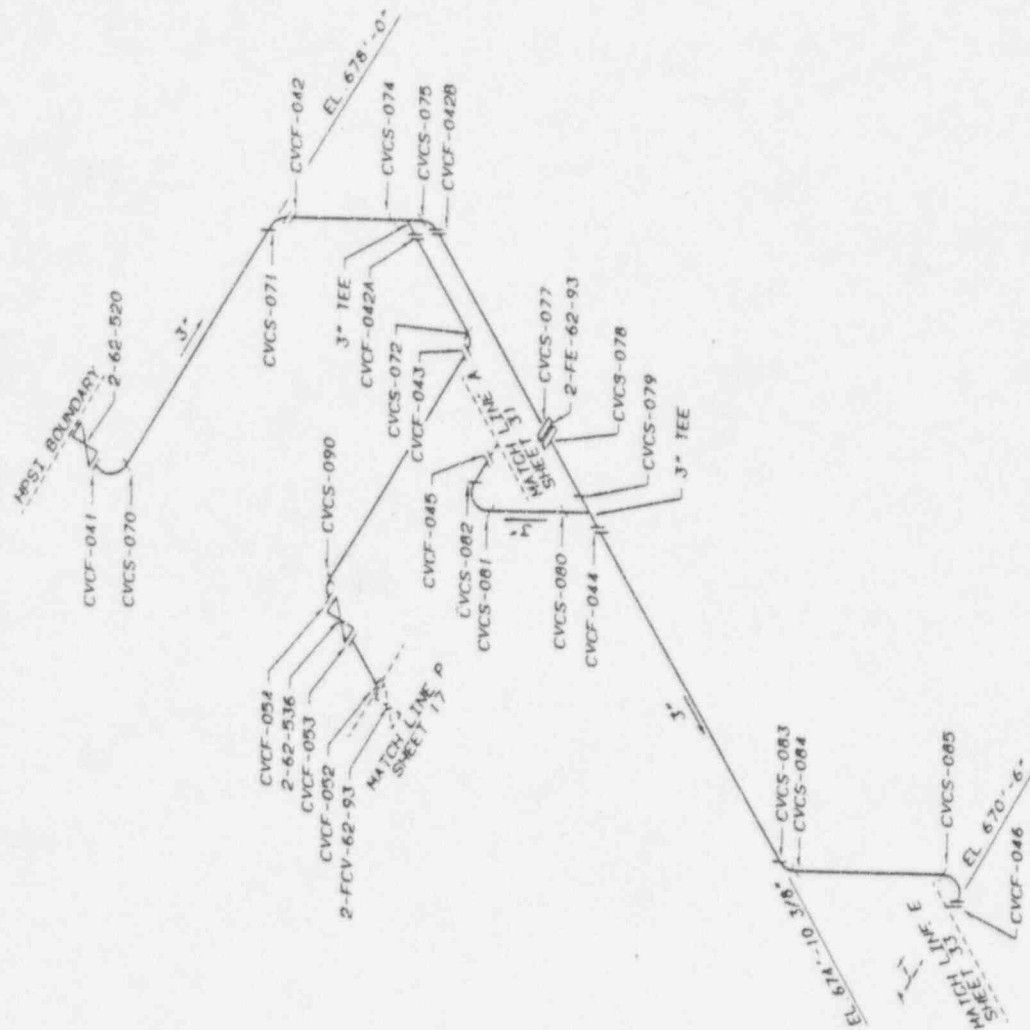
FITTINGS
3" SCH 160 A403 WP304
3"x2" CON RED SCH 160 SA403 WP304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DESIGN	ENC	DATE	12-18-95	SCALE	10' TO SCALE
CHECKED	SEA	APPROVED	WVW	CAD MAINTAINED DRAWING	IN
SUBMITTED	WVW	ISI-0431-C-31	100		

REFERENCE DRAWINGS A-7440, A-7441
MATERIAL SPECIFICATIONS PIPE 3" SCH 160 A376 TP304 SEAMLESS FITTINGS SCH 160 A403 WP304 ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DESIGN	DATE	12-18-85	SCALE	100' IN SCALE	
CHECKED	BY	JW	CAD	MAINTAINED	DATE
SUBMITTED	DATE	12-18-85	IS	0431-C-32	00

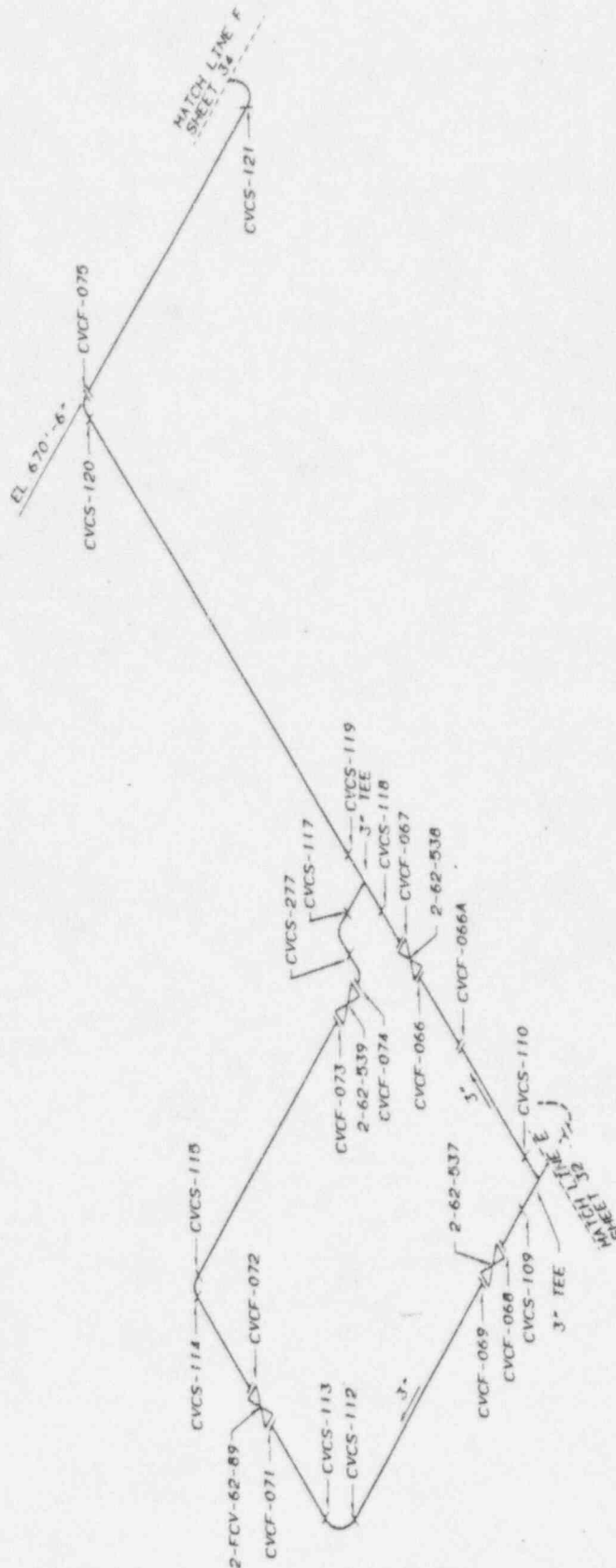
REFERENCE DRAWINGS
A-7443

MATERIAL SPECIFICATIONS

PIPE 3" SCH 160 A376 TP304

FITTINGS 3" SCH 160 A403 WP304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DESIGN BY	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	HLW	CAD	MANAGED DRAWING	REV
SUBMITTED	DATE	12-16-95	PROJECT	ISI-0431-C-33	00

REFERENCE DRAWINGS

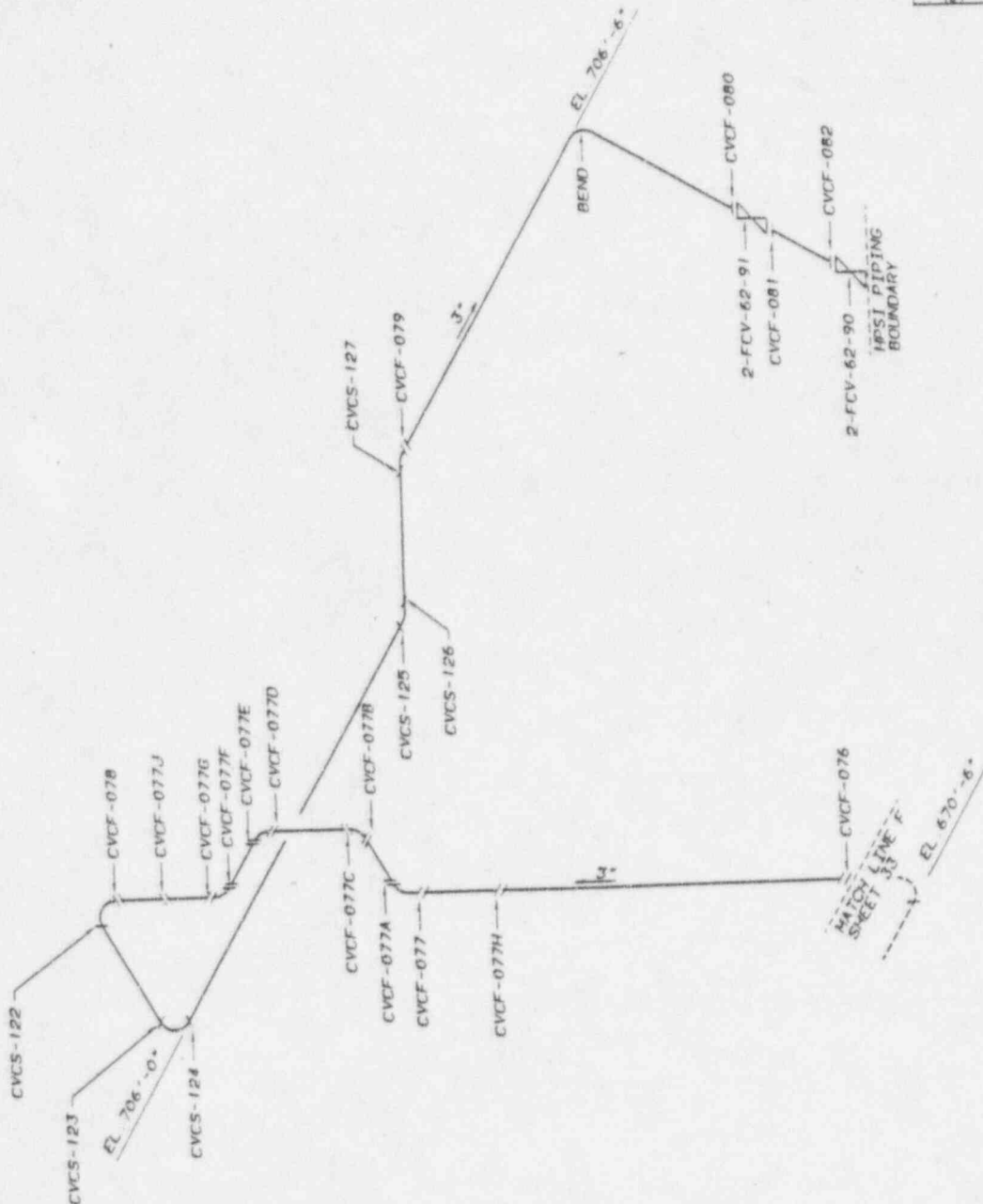
A-744.1

MATERIAL SPECIFICATIONS

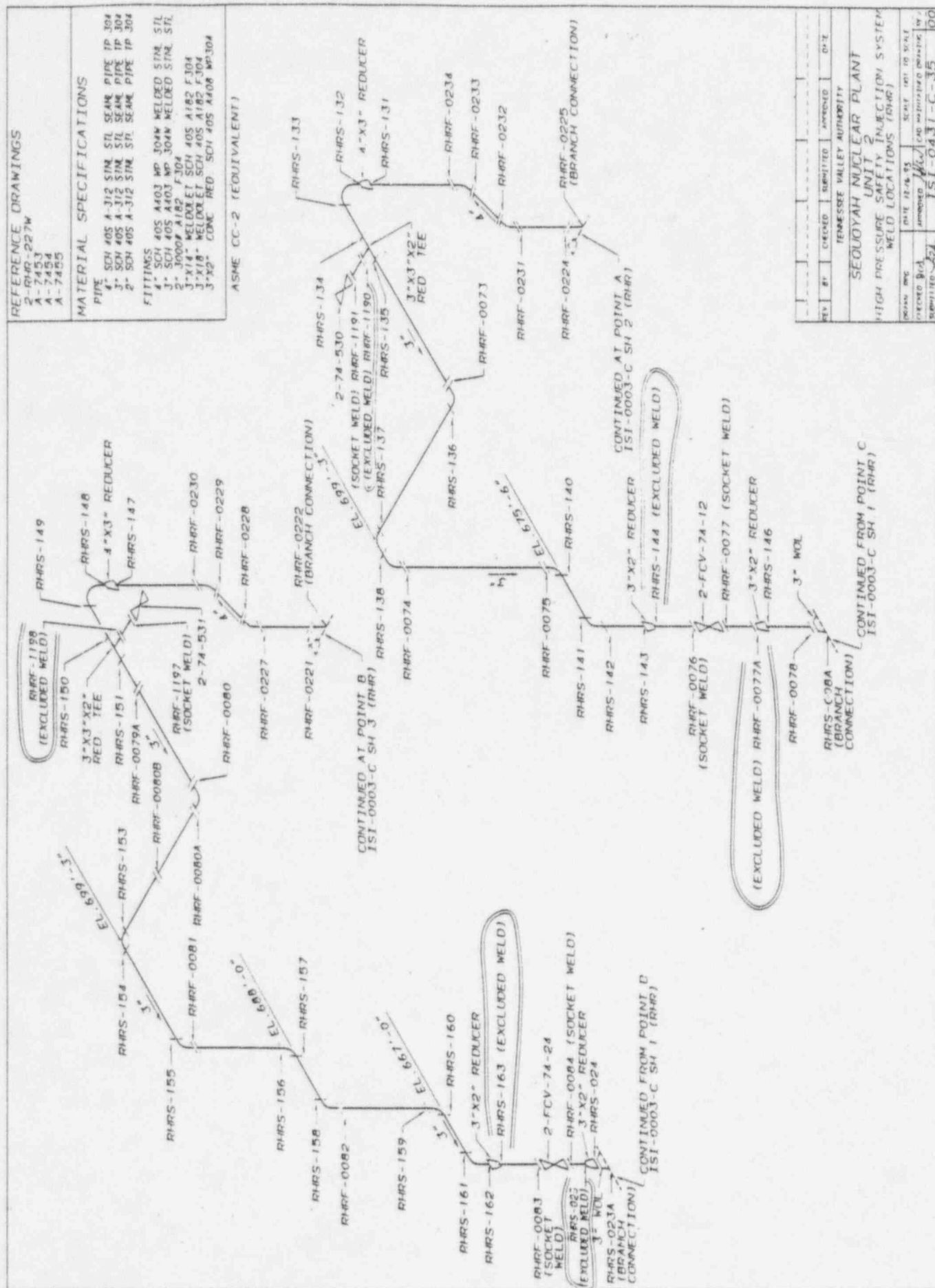
PIPE SCH 160 A376 TP304 SEAMLESS

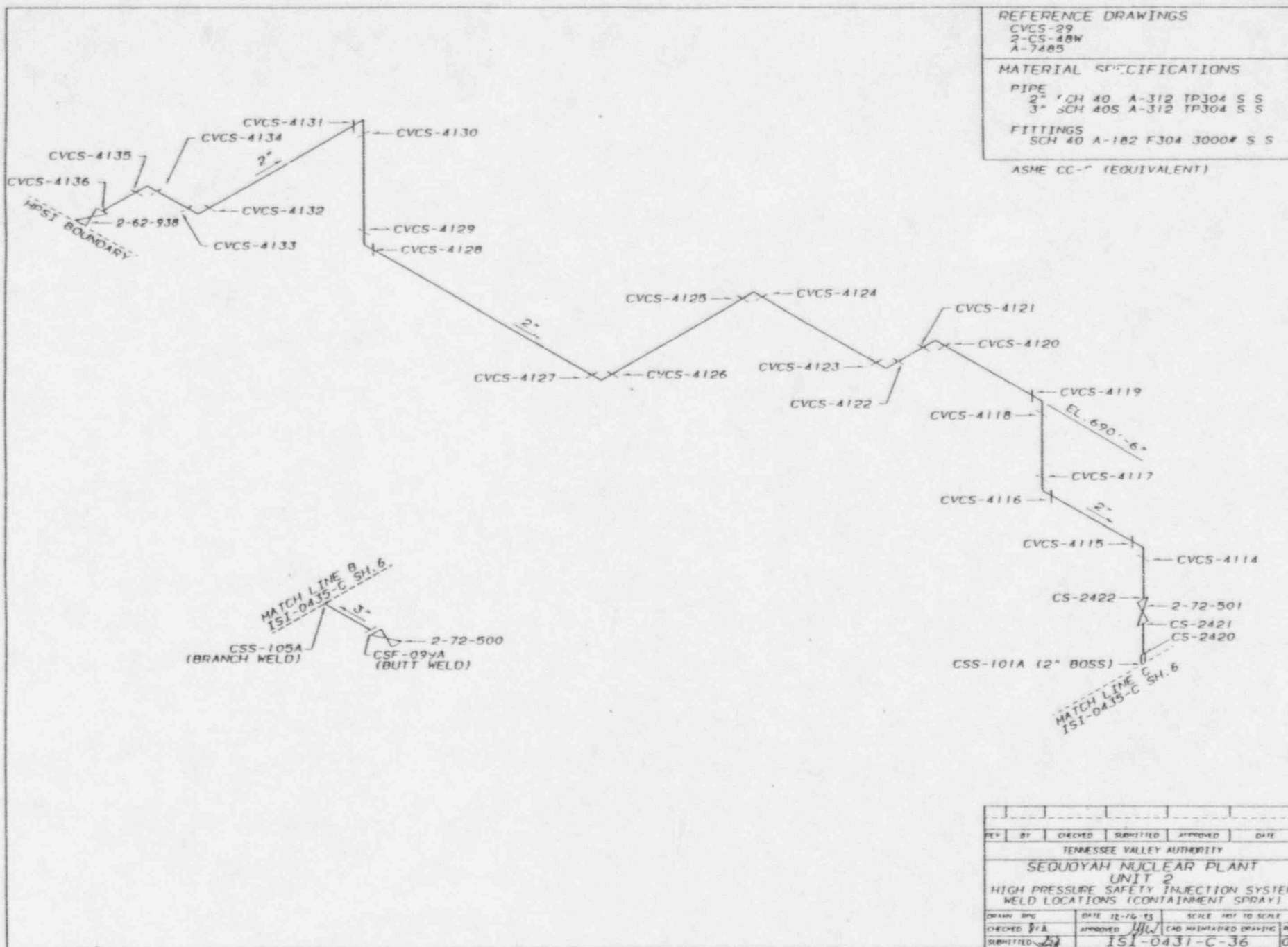
FITTINGS
3" SCH 160 A403 WP304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DATE	12-16-93	SCALE	NOT TO SCALE		
CHECKED	B.A.	APPROVED	ISI	00	
SUBMITTED	ISI	ISI-0431-C-34			
					00





REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CONTAINMENT SPRAY)					
DRAWN BY	DATE 12-16-95	SCALE NOT TO SCALE			
CHECKED BY	APPROVED	CNO MAINTAINED DRAWING			
SUBMITTED	ISI-0431-C-36	00			

REFERENCE DRAWINGS
A-7438

MATERIAL SPECIFICATIONS

PIPE

8"x6" SCH 40S SA312 TP304 WELDED

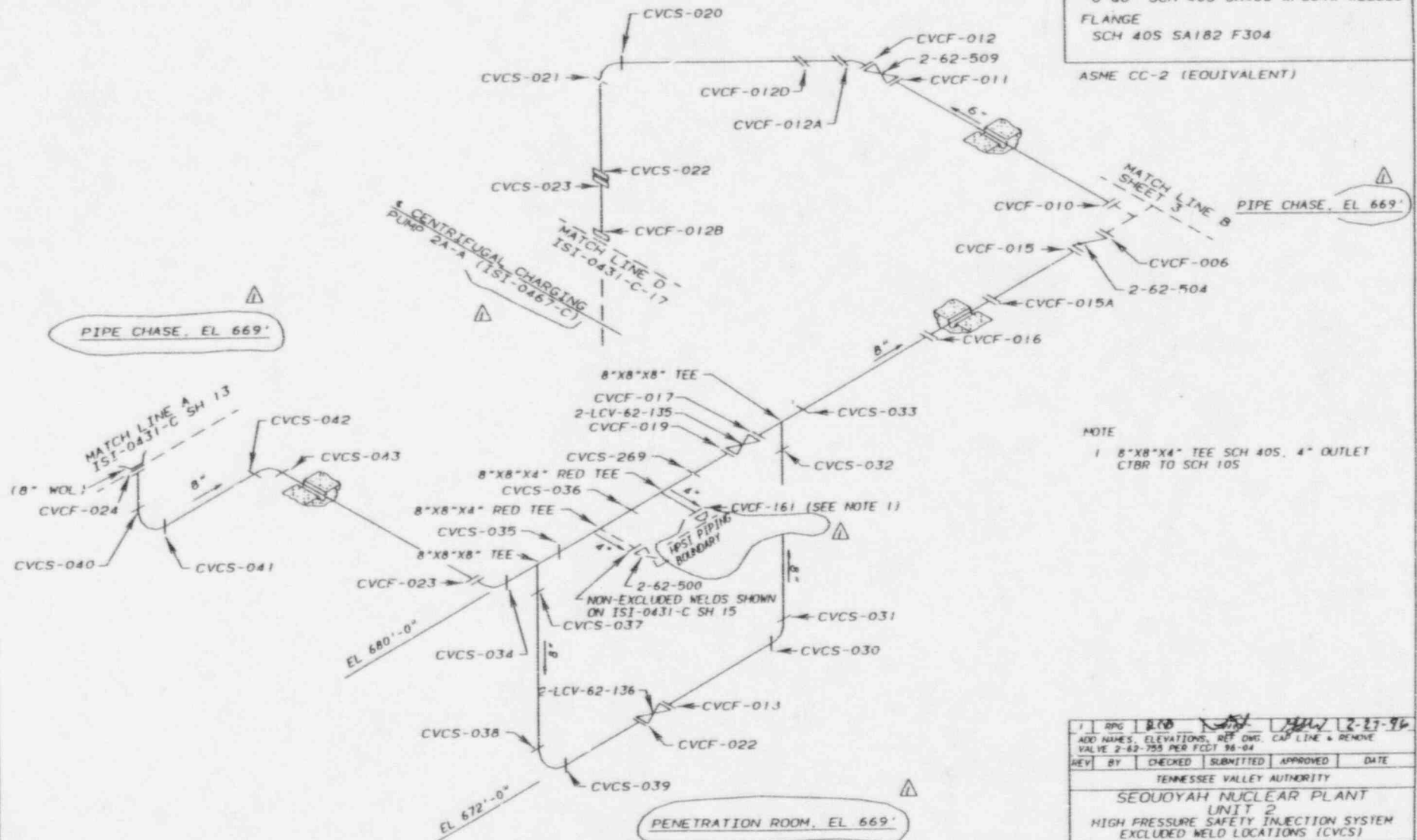
FITTINGS

8"x6" SCH 40S SA403 WP304W WELDED

FLANGE

SCH 40S SA182 F304

ASME CC-2 (EQUIVALENT)



NOTE

1 8"x8"x4" TEE SCH 40S, 4" OUTLET
CTBR TO SCH 105

1	RPG	BPD	12-27-96	12-27-96	12-27-96
ADD NAMES, ELEVATIONS, REF. DIMS. CAP LINE & REMOVE VALVE 2-62-755 PER FCCI 96-04					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUOYAH NUCLEAR PLANT UNIT 2 HIGH PRESSURE SAFETY INJECTION SYSTEM EXCLUDED WELD LOCATIONS (CVCS)					
DRAWN	RPG	DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED	JCS	APPROVED	QJN	CAD MAINTAINED	DRAWING REV
SUBMITTED	FRS	ISI-0435-C-01	01		

REFERENCE DRAWINGS
A-7438

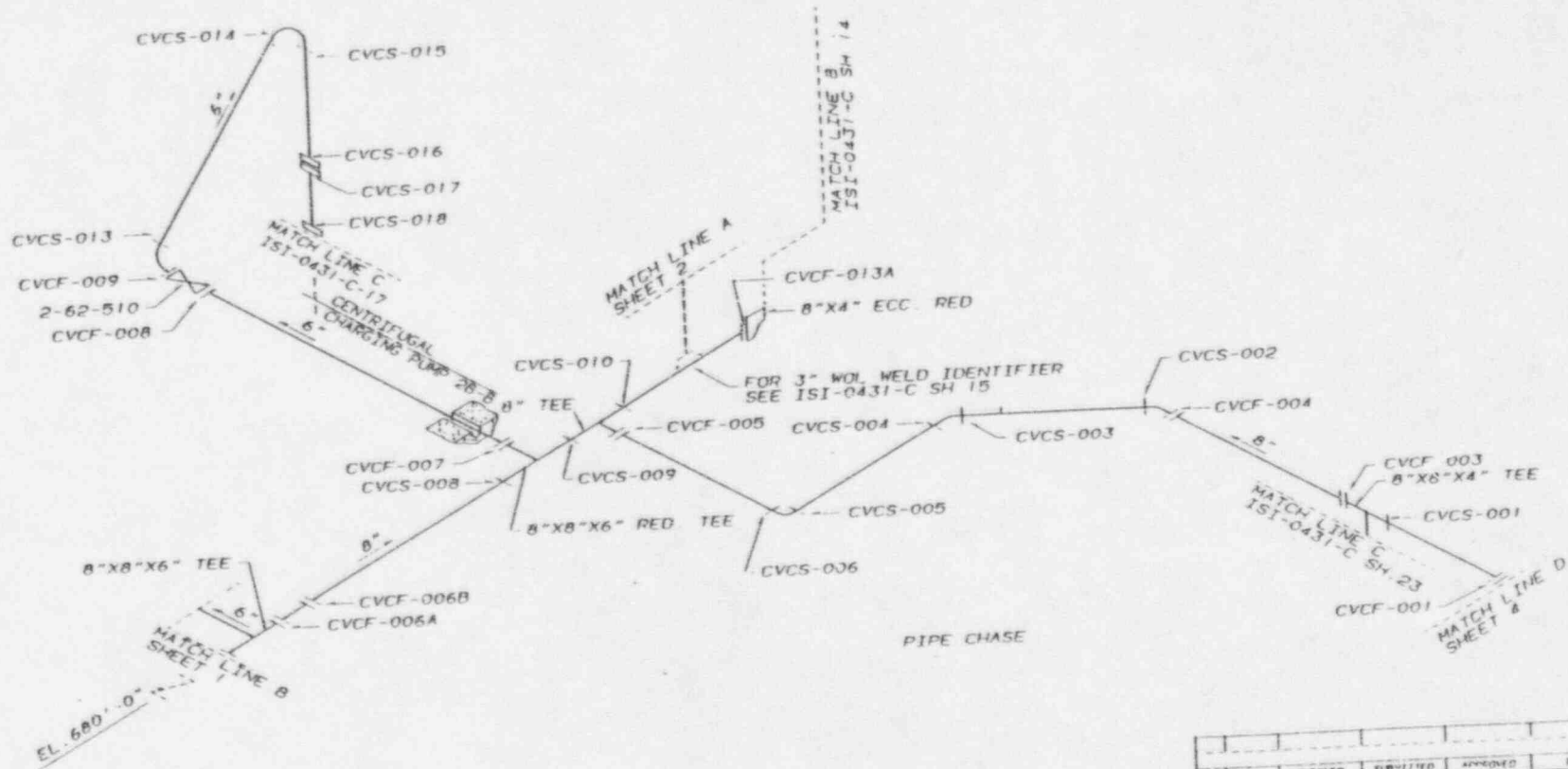
MATERIAL SPECIFICATIONS

PIPING
8" SCH 40S SA312 TP304 WELDED
6" SCH 40S SA312 TP304 WELDED

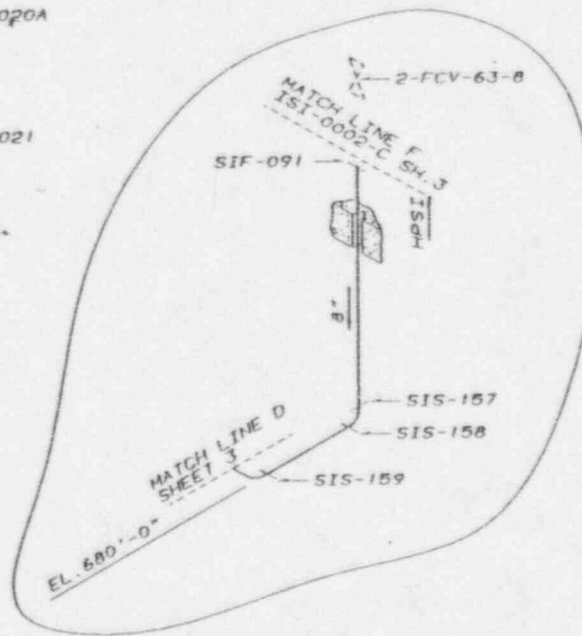
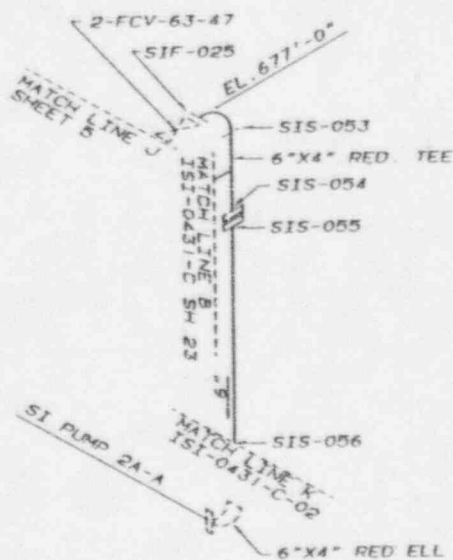
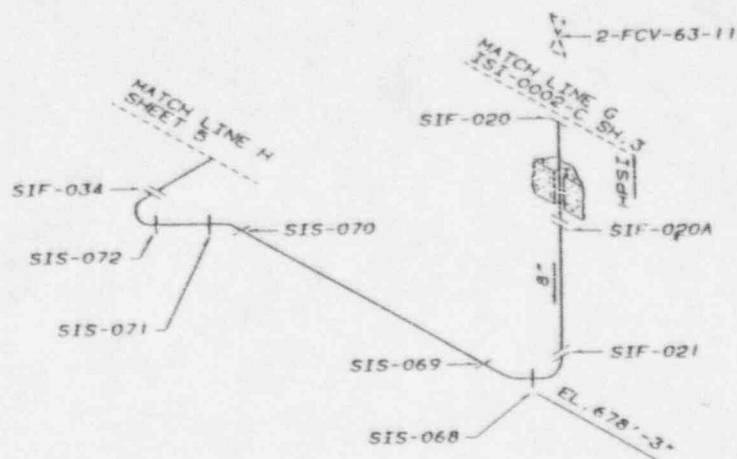
FITTINGS
8" 56" SCH 40S SA403 WP304 WELDED
8"X4" ECC RED SCH 40S
A-403 WP304W

FLANGE
SA 182 F304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (CVCS)					
DESIGN	WJC	DATE	12/16/95	SCALE	1/4" = 1'-0"
CHECKED	JFA	APPROVED	WJC	CAD	WELDED (DRAWING)
SUBMITTED	JFA	ISI-0435-C-03			00



REFERENCE DRAWINGS
 A-7491
 A-7492
 A-7495

MATERIAL SPECIFICATIONS

PIPE
 8" & 6" SCH. 40S
 SA 312 TP 304 WELDED

FITTINGS
 8" & 6" SCH. 40S
 SA 403 WP 304W WELDED

FLANGE
 SA182 F 304

ASME CC-2 (EQUIVALENT)

THESE WELDS COUNTED
 UNDER THE CVC SYSTEM

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (SI/CVC)					
DRWING NO.	DATE	FILE NO.	TS	SCALE	NOT TO SCALE
CHECKED <i>JA</i>	APPROVED <i>HLW</i>	CAD MAINTAINED	DRWING	REV	
SUBMITTED <i>JA</i>	ISI-0435-C-04				00

REFERENCE DRAWINGS
A7492

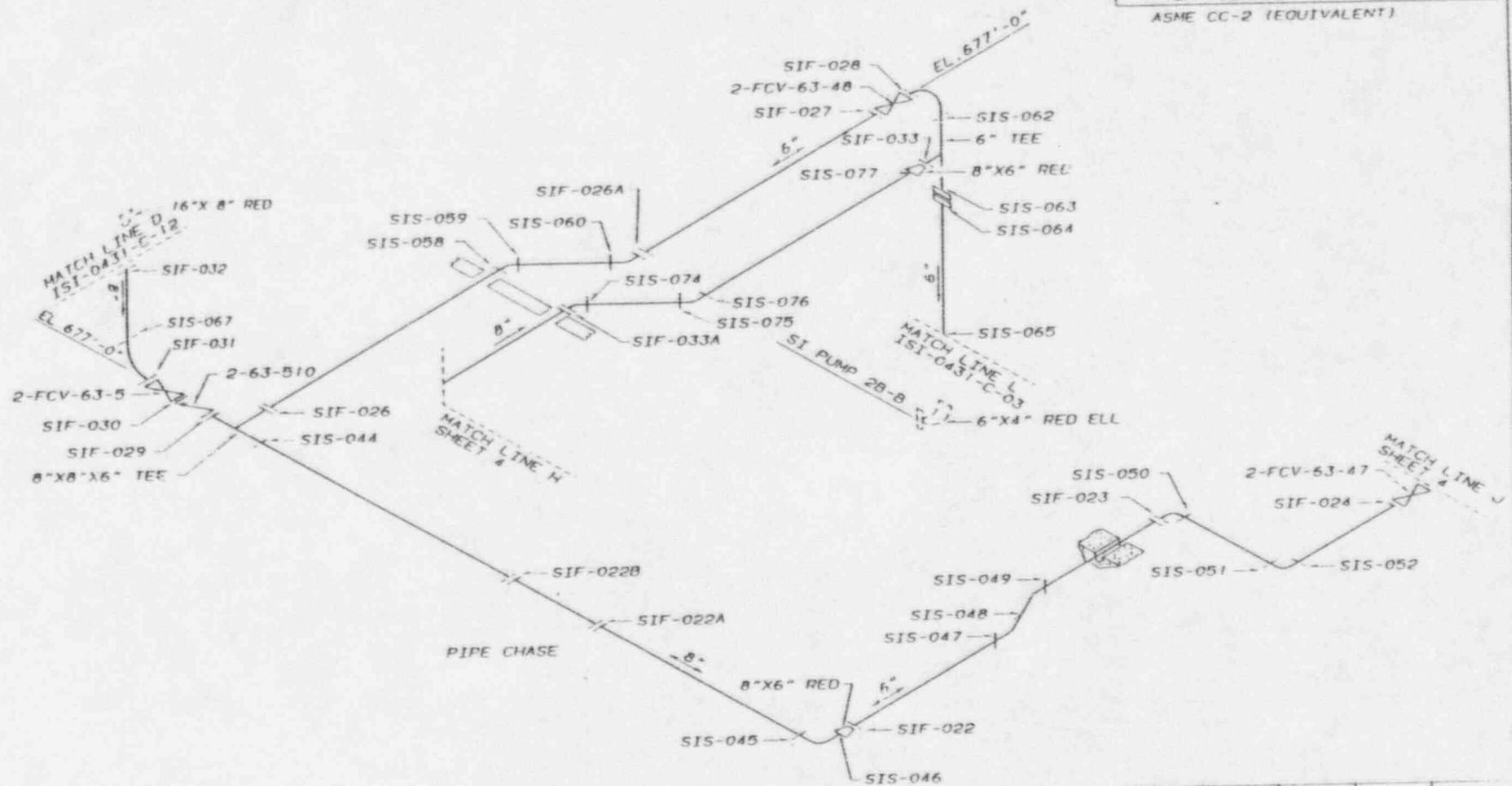
MATERIAL SPECIFICATIONS

PIPE
8" & 6" SCH 40S
SA 312 TP304W WELDED

FITTINGS
8" & 6" SCH 40S
SA 403 WP304W WELDED

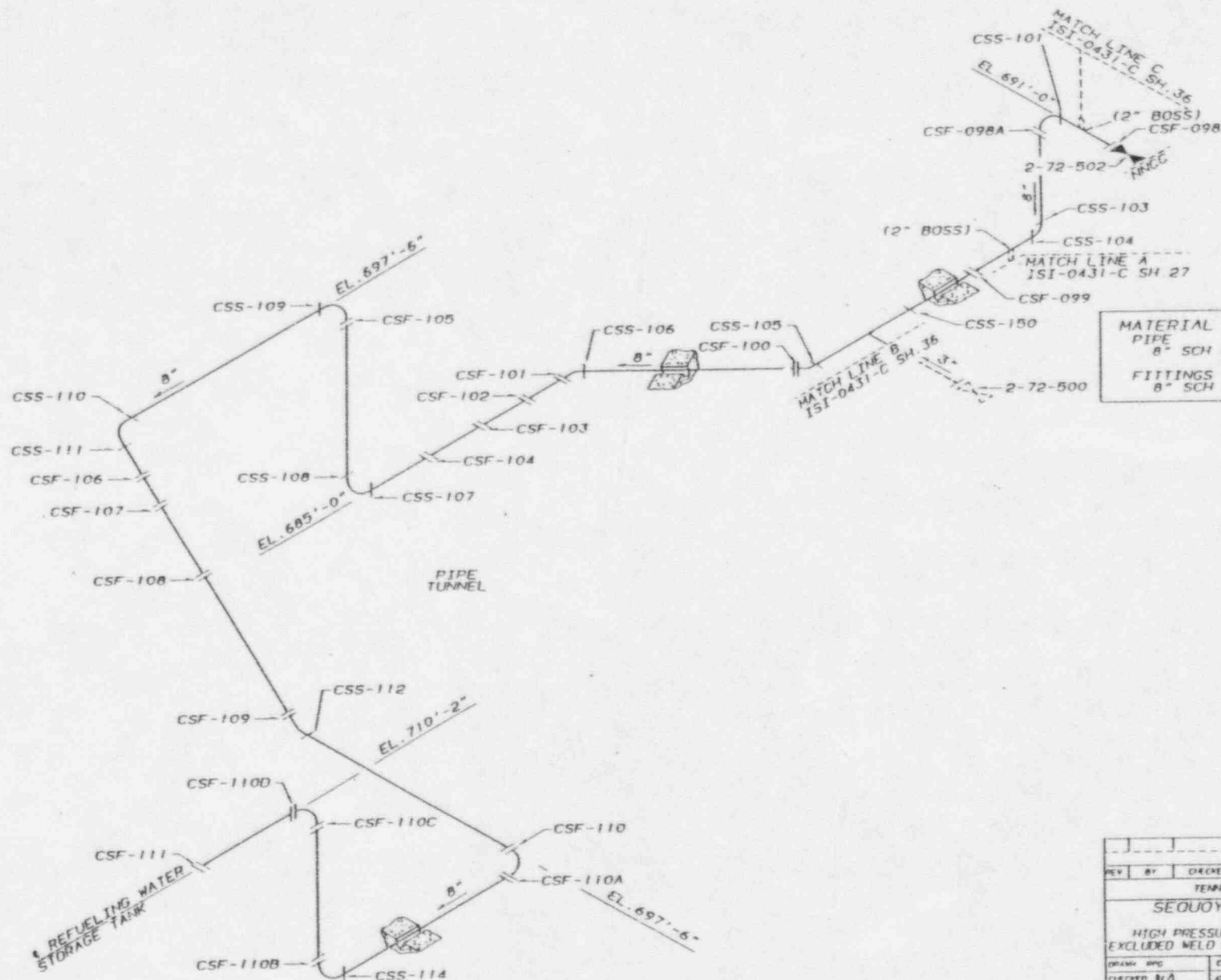
FLANGE
SA 182 F304

ASME CC-2 (EQUIVALENT)



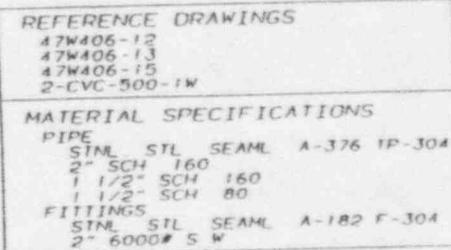
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (SAFETY INJECTION)					
DESIGN	ENG	DATE	12-16-93	SCALE	NOT TO SCALE
CHECKED	JL	APPROVED	JL	DATE	12-16-93
SUBMITTED	JL	DATE	12-16-93	SCALE	NOT TO SCALE
ISI-0435-C-05					
100					

REFERENCE DRAWINGS
A-7485, 2-CS-48W
ASME CC-2 (EQUIVALENT)



MATERIAL SPECIFICATIONS
PIPE
8" SCH 40S A-312 TP304W WELDED
FITTINGS
8" SCH 40S A-403 WP304W WELDED

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (CONTAINMENT SPDRAY)					
DRAWN BY	DATE 12-16-95	SCALE 1/8" = 1'-0"			
CHECKED BIA	APPROVED <i>[Signature]</i>	CND HAZARDOUS DRINKING WTR			
SUBMITTED <i>[Signature]</i>	ISI-0435-C-06		100		

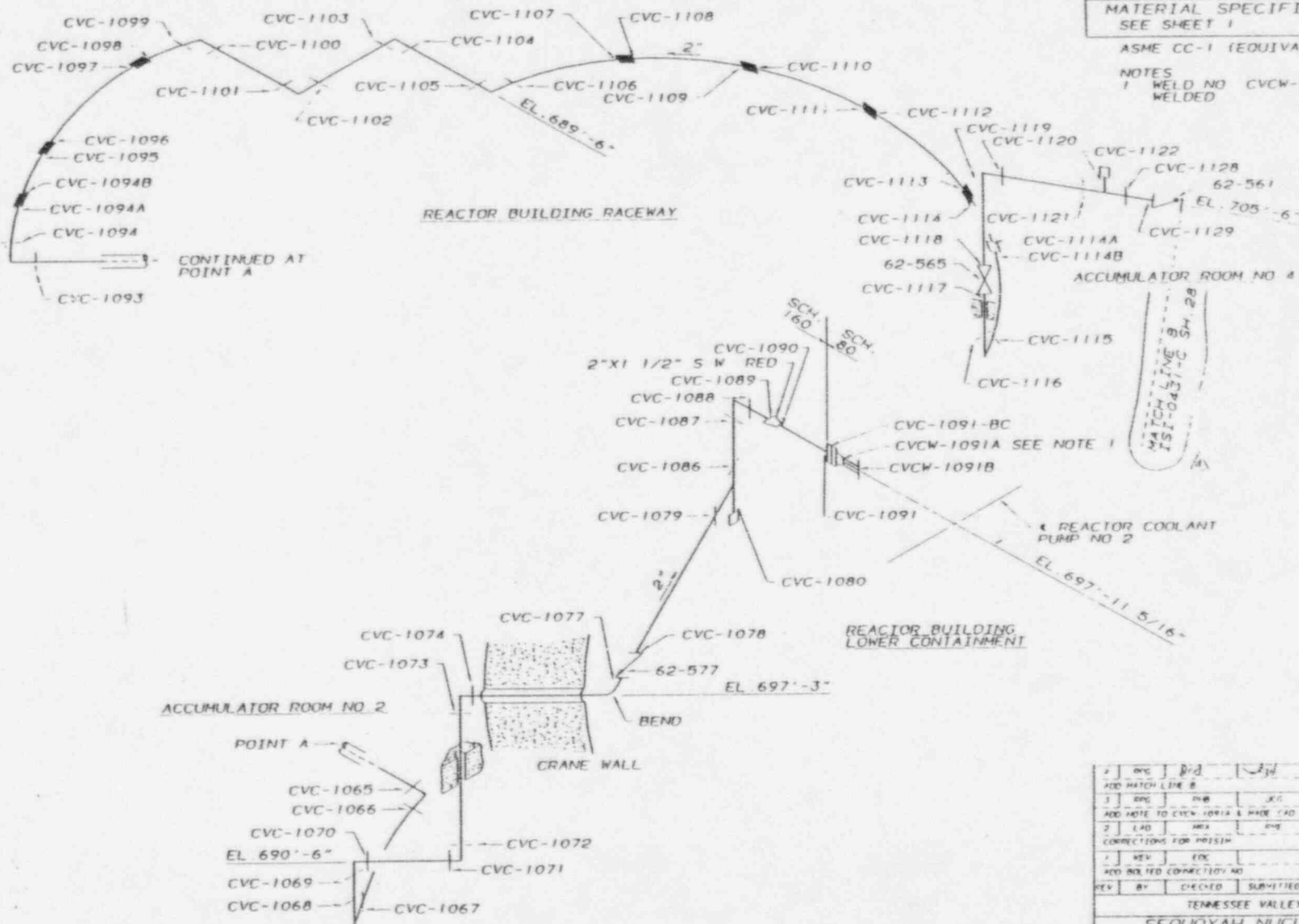


ASME CC-1 (EQUIVALENT)

NOTES

1 WELD NO CVCW-1057A IS BUTT
WELDED

1	DWG	S-1A			11-8-93
ADD MATCH LINE D					
3	DWG		CC	GLP	11-8-93
ADD NOTE TO CEN-105TH & MADE CAD					
2	LAD	M&B	RME	GLP	8-9-94
CORRECT FOR INDSIM					
1	REV	EDC		GR	11-8-93
NEW ROLLED CONNECTION AS					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 2					
SEA WATER INTAKE					
(CHEMICAL AND WASTE CONTROL) S-1-A					
ISSUED REV	DATE	1-24-91	SCALE: NOT TO SCALE		
CHECKED	APPROVED	JCR	LAD MATCHLINE DRAWING, ST		
SUBMITTED EDC	MSG-0008-C-01 104				



REFERENCE DRAWINGS

47W406-12
47W406-14
47W406-15
2-CVC-501-1W
2-CVC-501-2W

MATERIAL SPECIFICATIONS

SEE SHEET 1

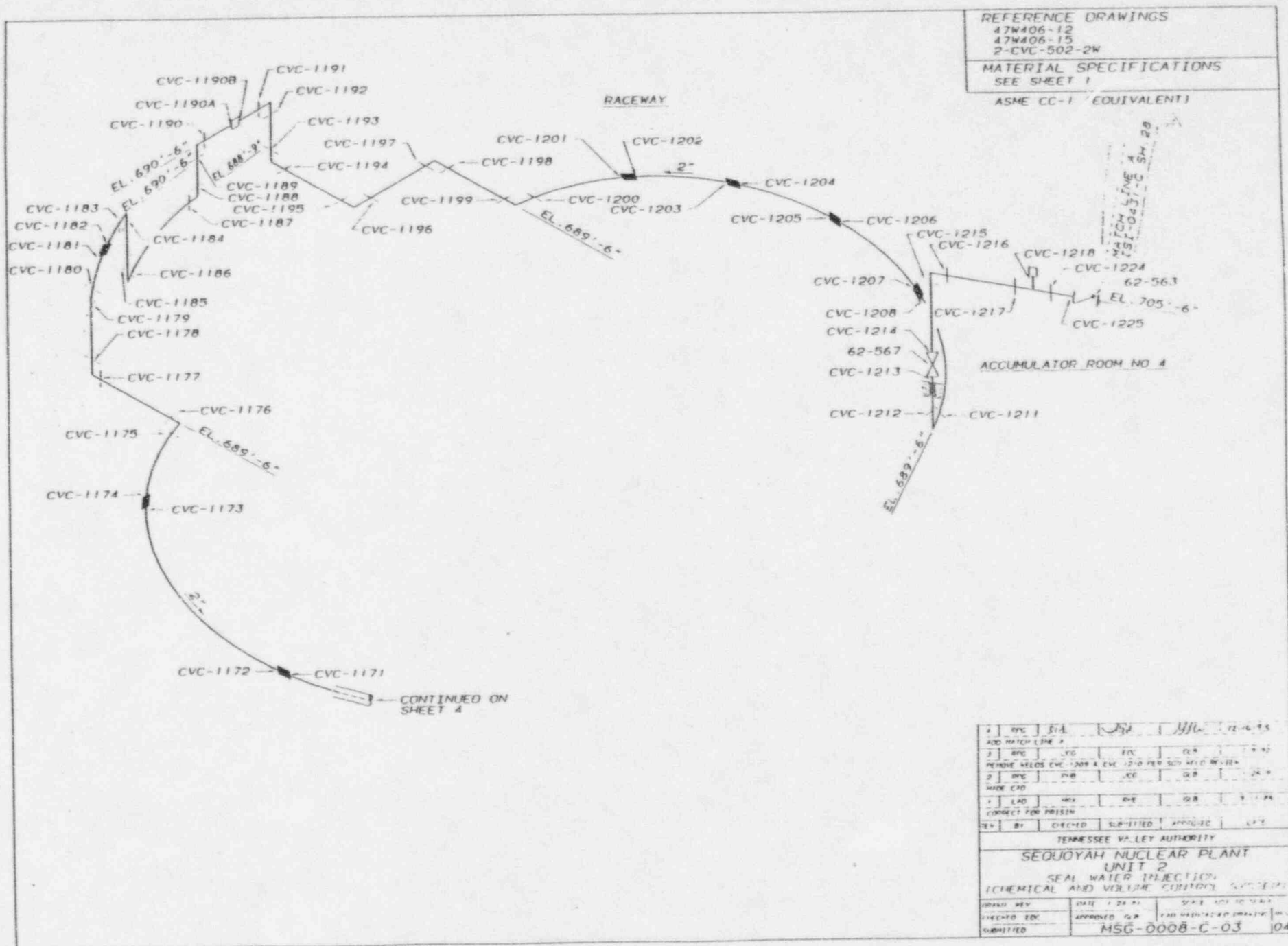
ASME CC-1 (EQUIVALENT)

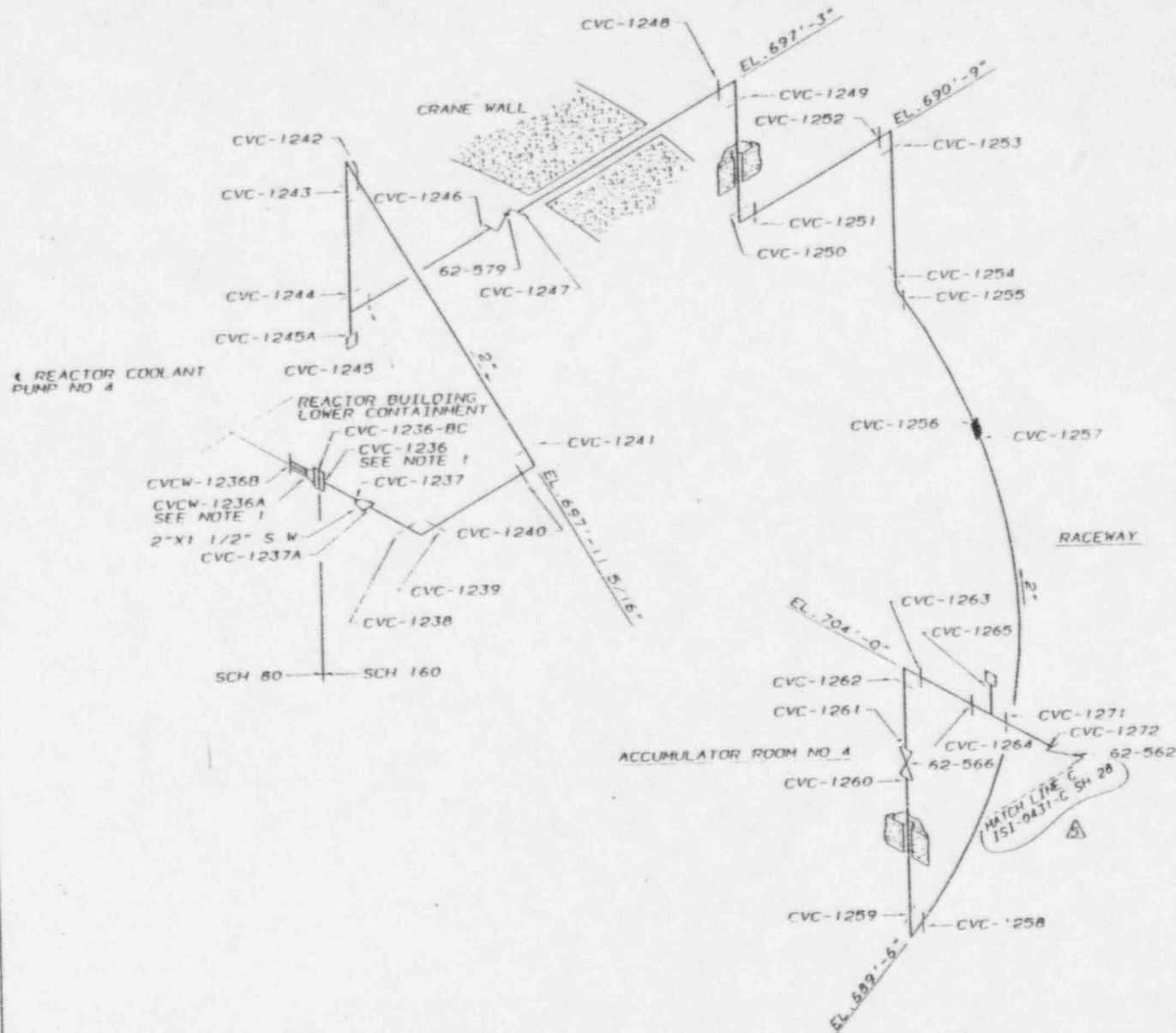
NOTES

1 WELD NO CVCW-1091A IS BUTT WELDED

1	REV	EDC	12/16/95	
ADD MATCH LINE B				
1	REV	EDC	12/16/95	
ADD NOTE TO CVCW-1091A & MAKE CAD				
2	REV	EDC	12/16/95	
CORRECTIONS FOR POISSON				
1	REV	EDC	12/16/95	
ADD MATCH LINE CORRECTION NO				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
SEAL WATER INJECTION				
(CHEMICAL AND VOLUME CONTROL SYSTEM)				
DESIGN	REV	DATE	1-24-91	SCALE
CHECKED	EDC	APPROVED	GLB	CAD MATCH LINE CORRECTION
SUBMITTED				

MSG-0008-C-02 04





REFERENCE DRAWINGS

47W406-12
47W406-14
47W406-15
2-CVC-503-1W

MATERIAL SPECIFICATIONS SEE SHEET 1

ASME CC-1 (EQUIVALENT)

NOTES

1 WELD NOS CVC-1236 & CVCW-1236A
ARE BUTT WELDED

5	WPC	DRG	REV	DATE	12-16-78
1	ADD MATCH LINE C				
2	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
3	DELETE WELD # CVC-1259A				
4	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
5	REV	EDC			
6	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
7	REV	EDC			
8	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
9	REV	EDC			
10	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
11	REV	EDC			
12	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
13	REV	EDC			
14	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
15	REV	EDC			
16	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
17	REV	EDC			
18	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
19	REV	EDC			
20	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
21	REV	EDC			
22	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
23	REV	EDC			
24	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
25	REV	EDC			
26	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
27	REV	EDC			
28	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
29	REV	EDC			
30	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
31	REV	EDC			
32	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
33	REV	EDC			
34	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
35	REV	EDC			
36	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
37	REV	EDC			
38	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
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42	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
43	REV	EDC			
44	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
45	REV	EDC			
46	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
47	REV	EDC			
48	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
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54	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
55	REV	EDC			
56	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
57	REV	EDC			
58	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
59	REV	EDC			
60	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
61	REV	EDC			
62	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
63	REV	EDC			
64	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
65	REV	EDC			
66	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
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70	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
71	REV	EDC			
72	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
73	REV	EDC			
74	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
75	REV	EDC			
76	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
77	REV	EDC			
78	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
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85	REV	EDC			
86	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
87	REV	EDC			
88	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
89	REV	EDC			
90	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
91	REV	EDC			
92	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
93	REV	EDC			
94	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
95	REV	EDC			
96	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
97	REV	EDC			
98	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				
99	REV	EDC			
100	ADD NOTE TO CVC-1236 & CVCW-1236A & WELD CAD				

TENNESSEE VALLEY AUTHORITY			
SEOUOYAH NUCLEAR PLANT			
UNIT 2			
SEAL WATER INJECTION			
(CHEMICAL AND VOLUME CONTROL SYSTEM)			
DRWG. REV	DATE	SCALE	10" SCALE
CHECKED EDC	APPROVED OLB	CAD MAINTAINED DRAWING	
SUBMITTED EDC	MSG-0008-C-05		05

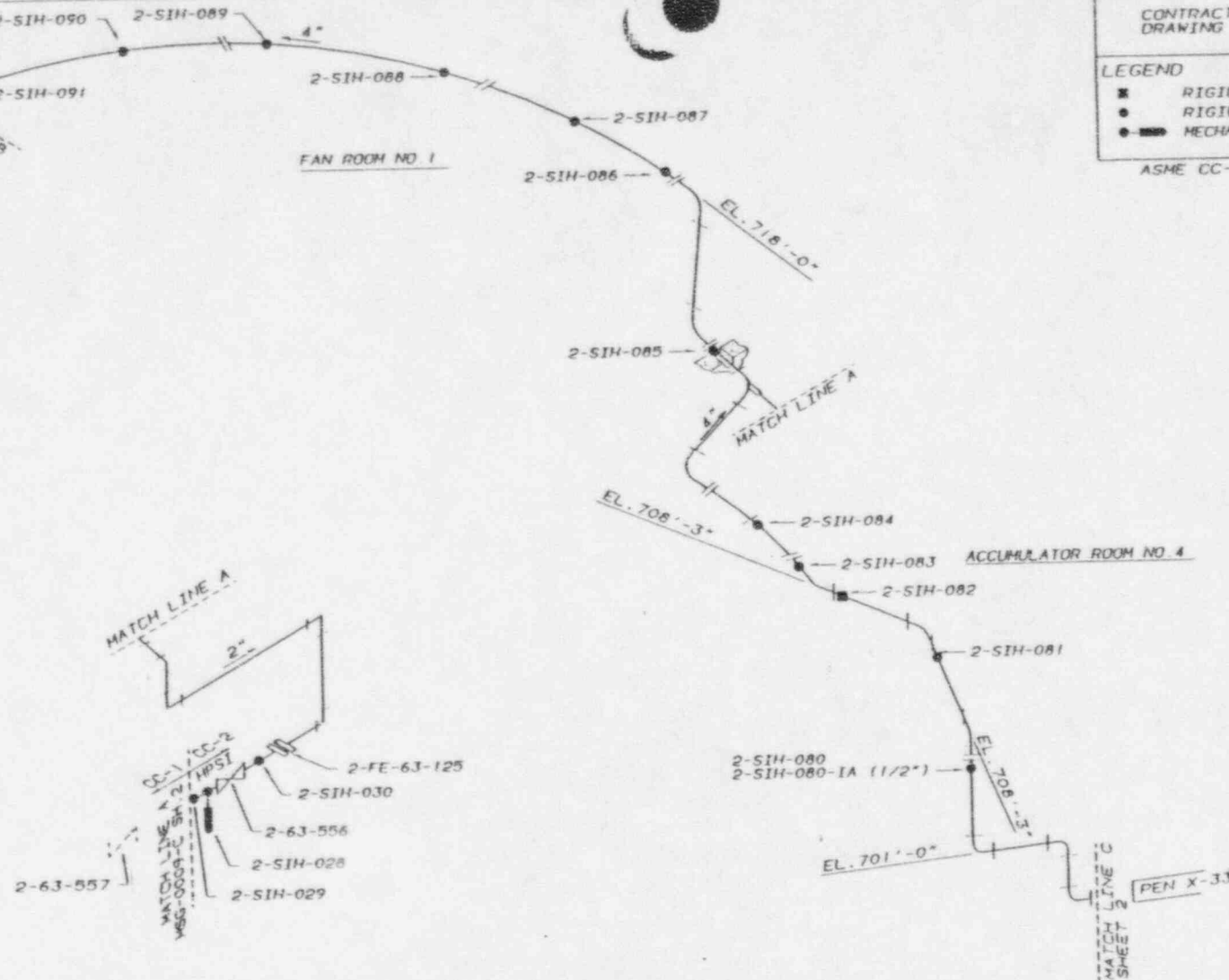
REFERENCE DRAWINGS

CONTRACT NO. TV-4241
DRAWING NO. 060010
060010.

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)

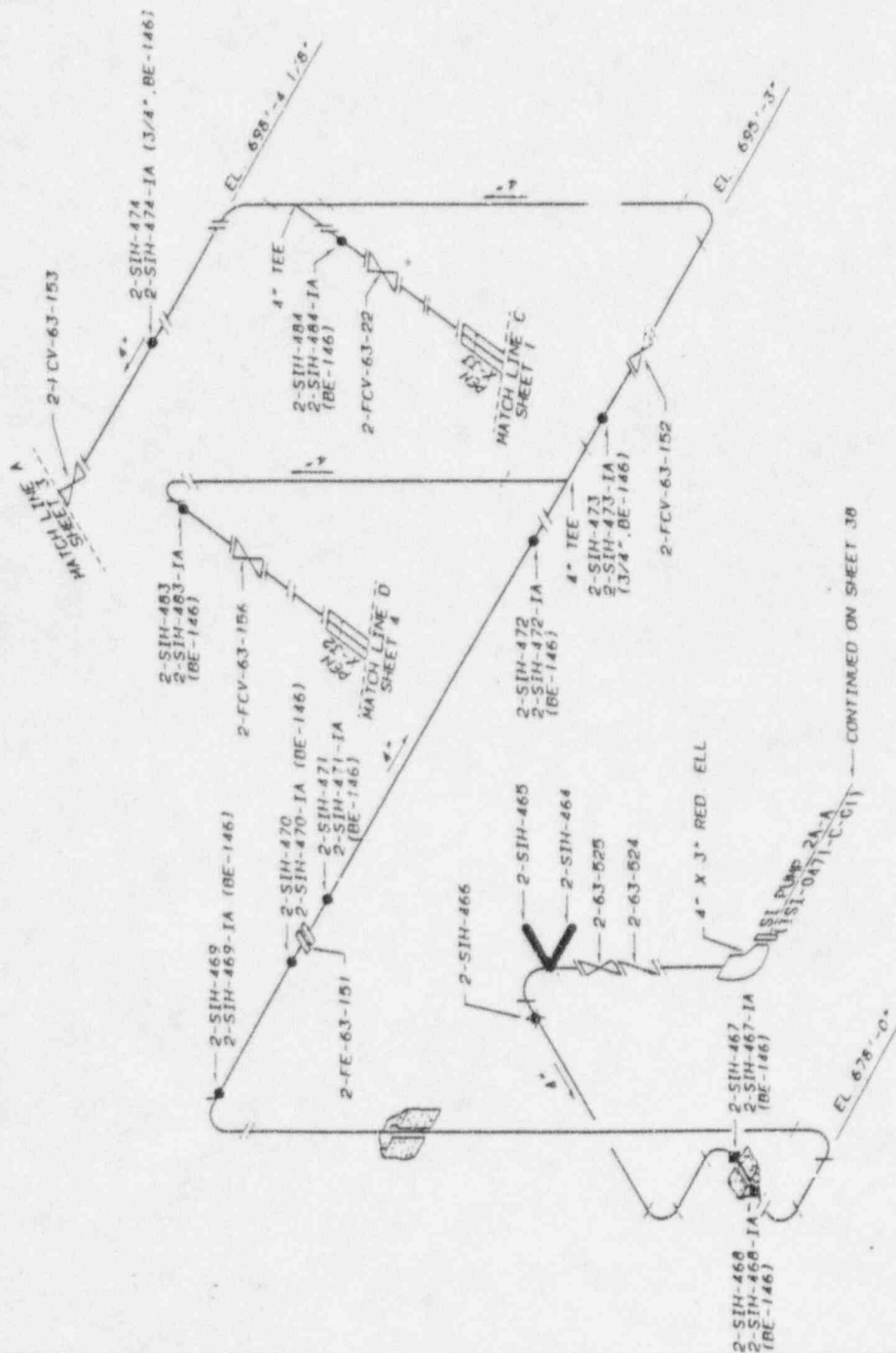


REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN BY	DATE 12-16-75		SCALE NOT TO SCALE		
CHECKED BY	APPROVED <i>[Signature]</i>		CAD MAINTAINED DRAWING		PI-1
SUBMITTED	ISI-0449-C-01				00

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



--- CONTINUED ON SHEET 38

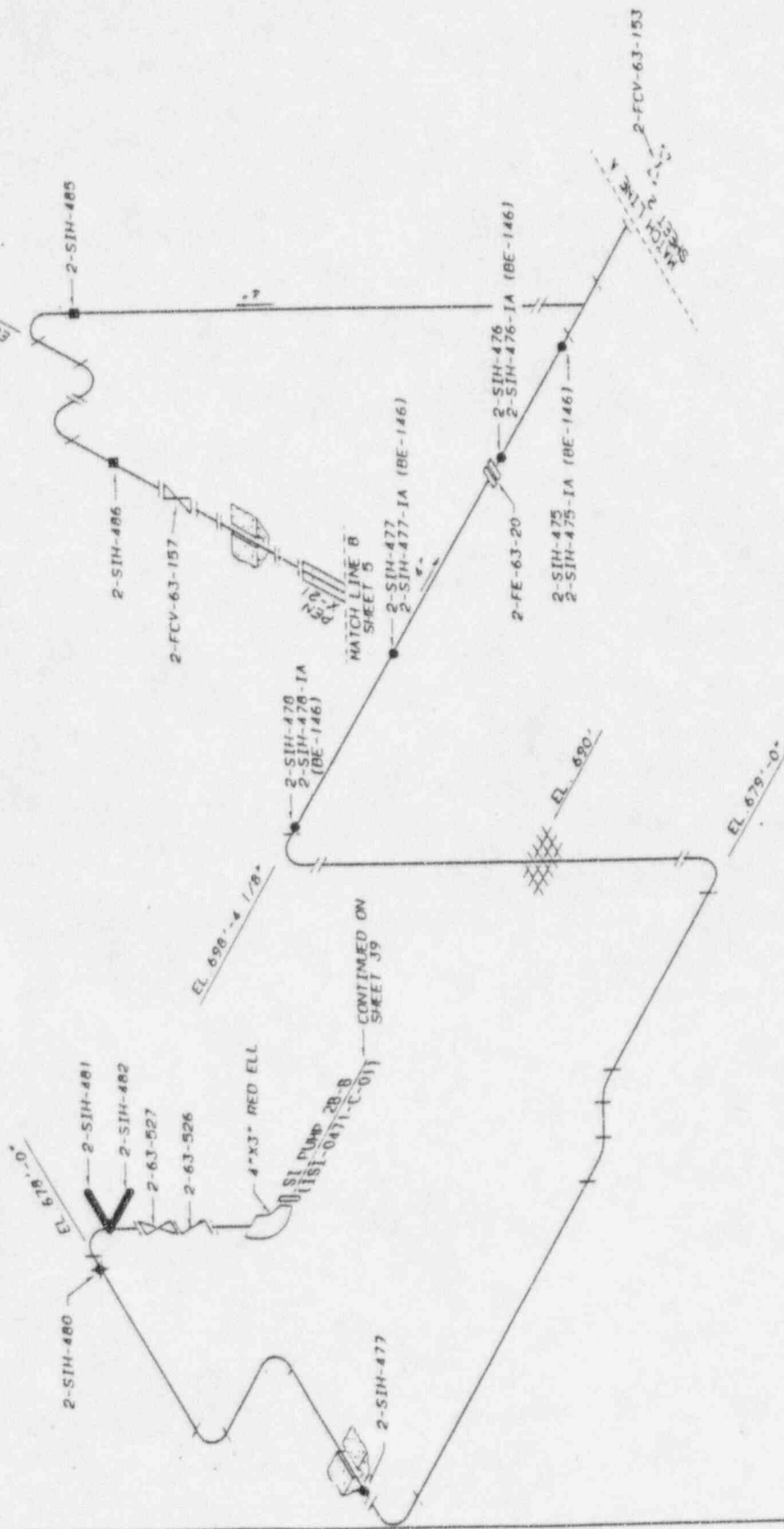
[illegible]

47K435-54

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- × VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

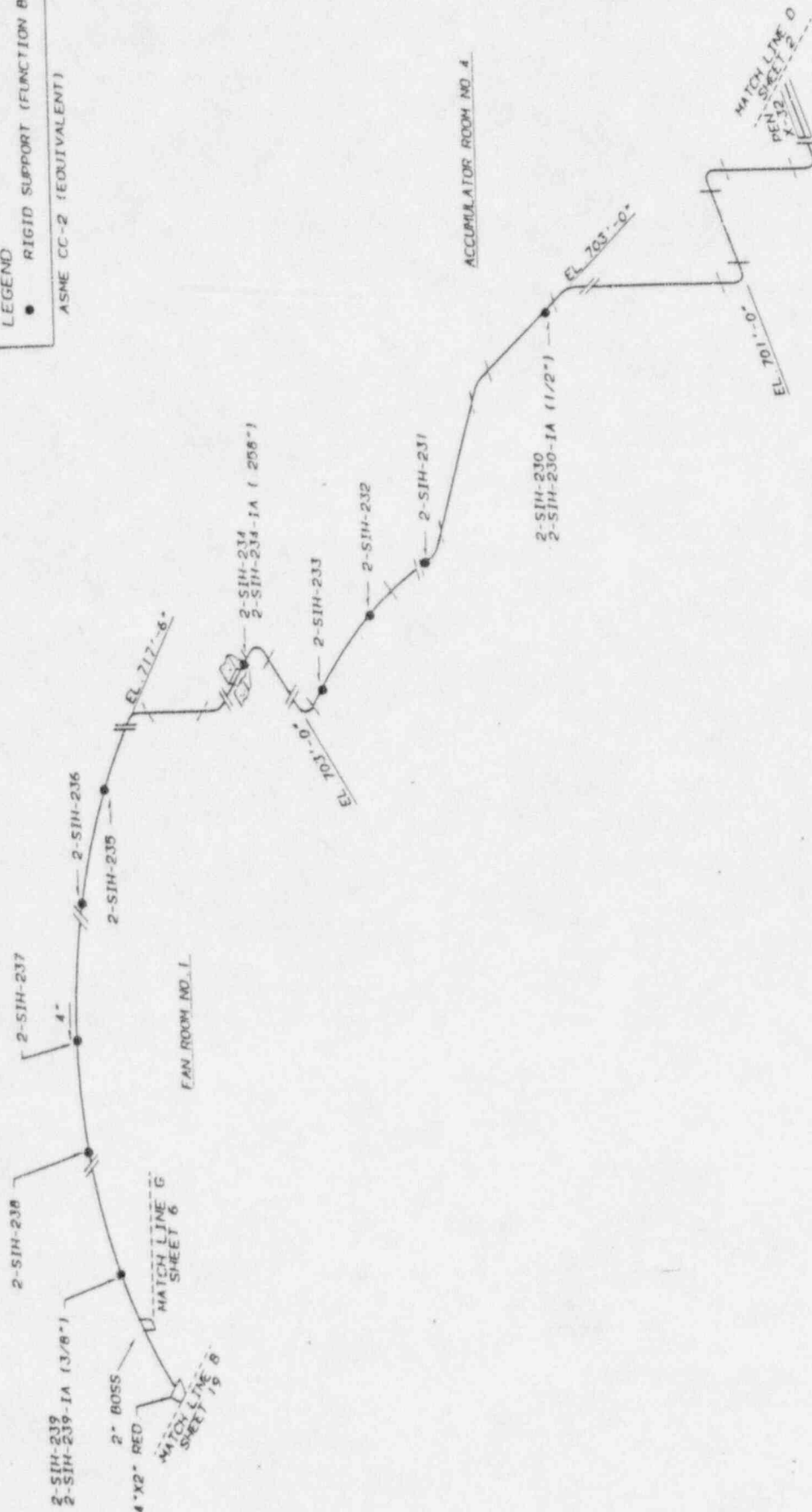
ASME CC-2 (EQUIVALENT)

[illegible]

REFERENCE DRAWINGS:
CONTRACT NO. TV-42499A
DRAWING NO. 0600102-09-07

LEGEND
● RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

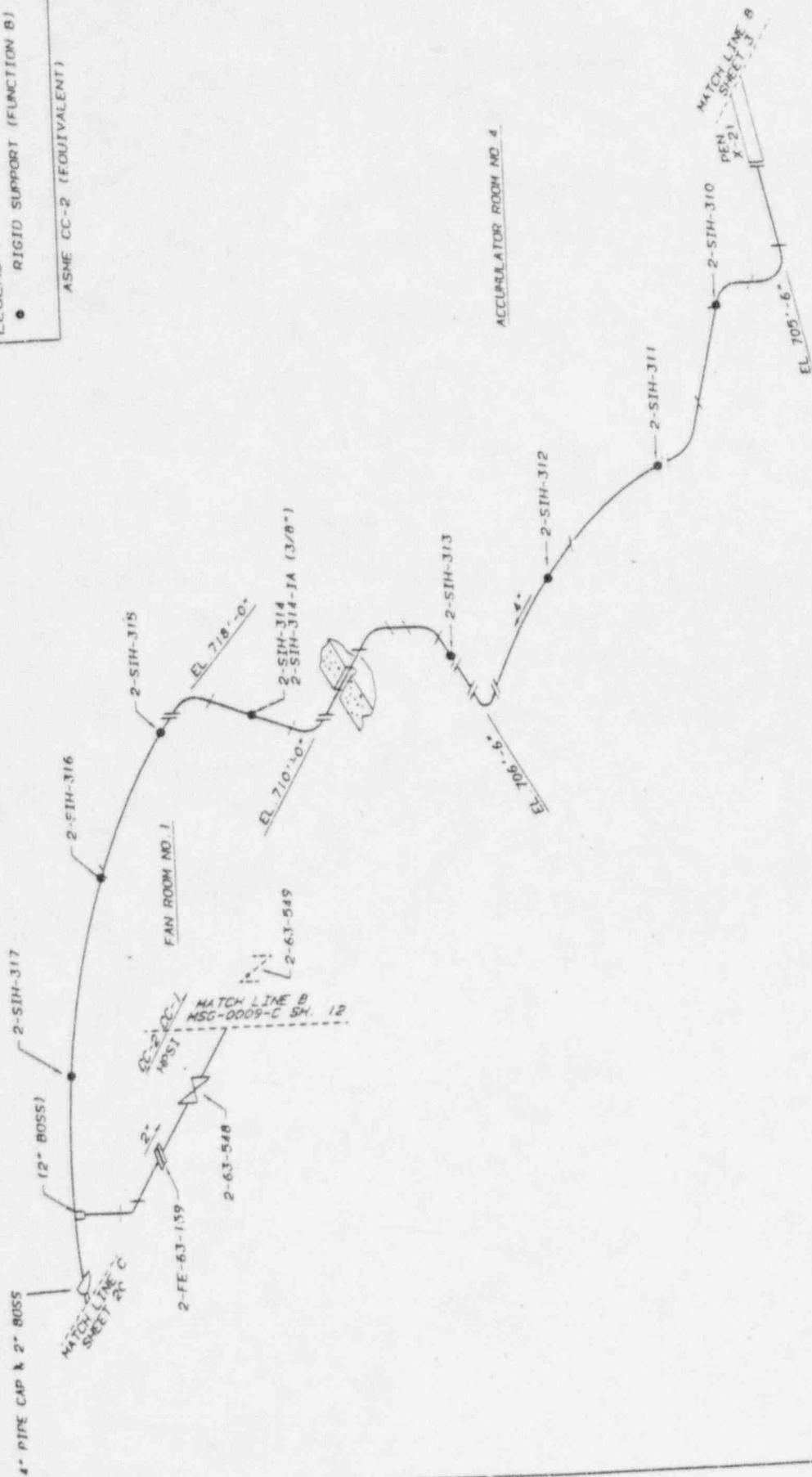


REV	BY	DESIGNED	SUBMITTED	APPROVED	DATE
1					
SEQUOYAH NUCLEAR PLANT					
TENNESSEE VALLEY AUTHORITY					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGNED BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	DATE	12-16-85	SCALE	NOT TO SCALE	
SUBMITTED BY	DATE	12-16-85	SCALE	NOT TO SCALE	
ISI-0449-C-04					
100					

REFERENCE DRAWINGS:
CONTRACT NO. TV-42499A
DRAWING NO. 0600102-09-09

LEGEND
● RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

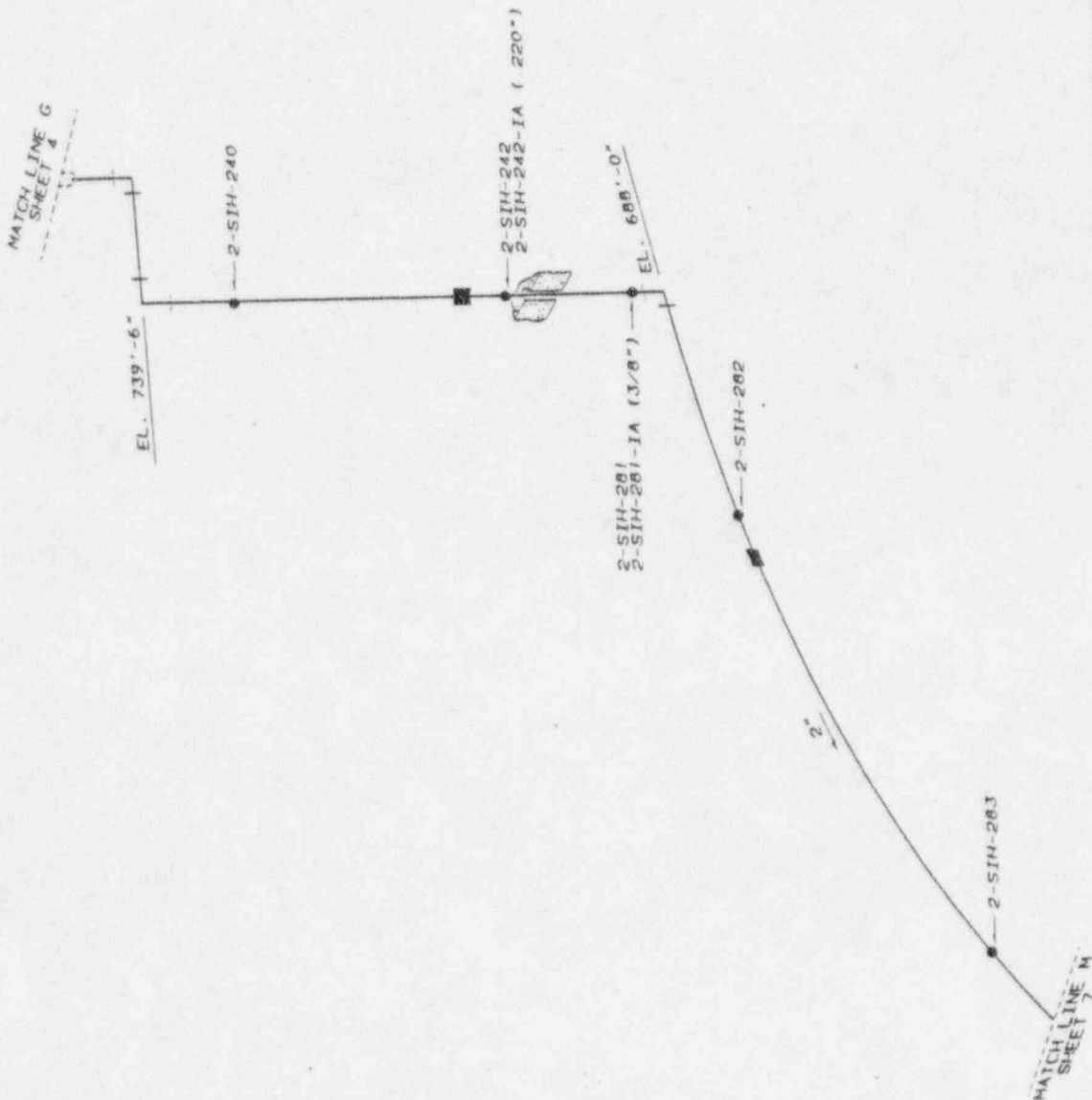


REV	BY	CHECKED	DESIGNED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	REV	SCALE	NOT TO SCALE	
CHECKED BY	DATE	REV	SCALE	NOT TO SCALE	
DESIGNED BY	DATE	REV	SCALE	NOT TO SCALE	
APPROVED BY	DATE	REV	SCALE	NOT TO SCALE	
SUBMITTED					00
ISI-0449-C-05					

REFERENCE DRAWINGS
 CONTRACT NO TV-42499A
 DRAWING NOS 0600102-09-07
 0600102-09-08

LEGEND
 • RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGNED	BY	DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED	J/A	APPROVED	H/W	CD	MINI-MAX DRAWING
SUBMITTED	J/A	ISI	0449-C-06		00

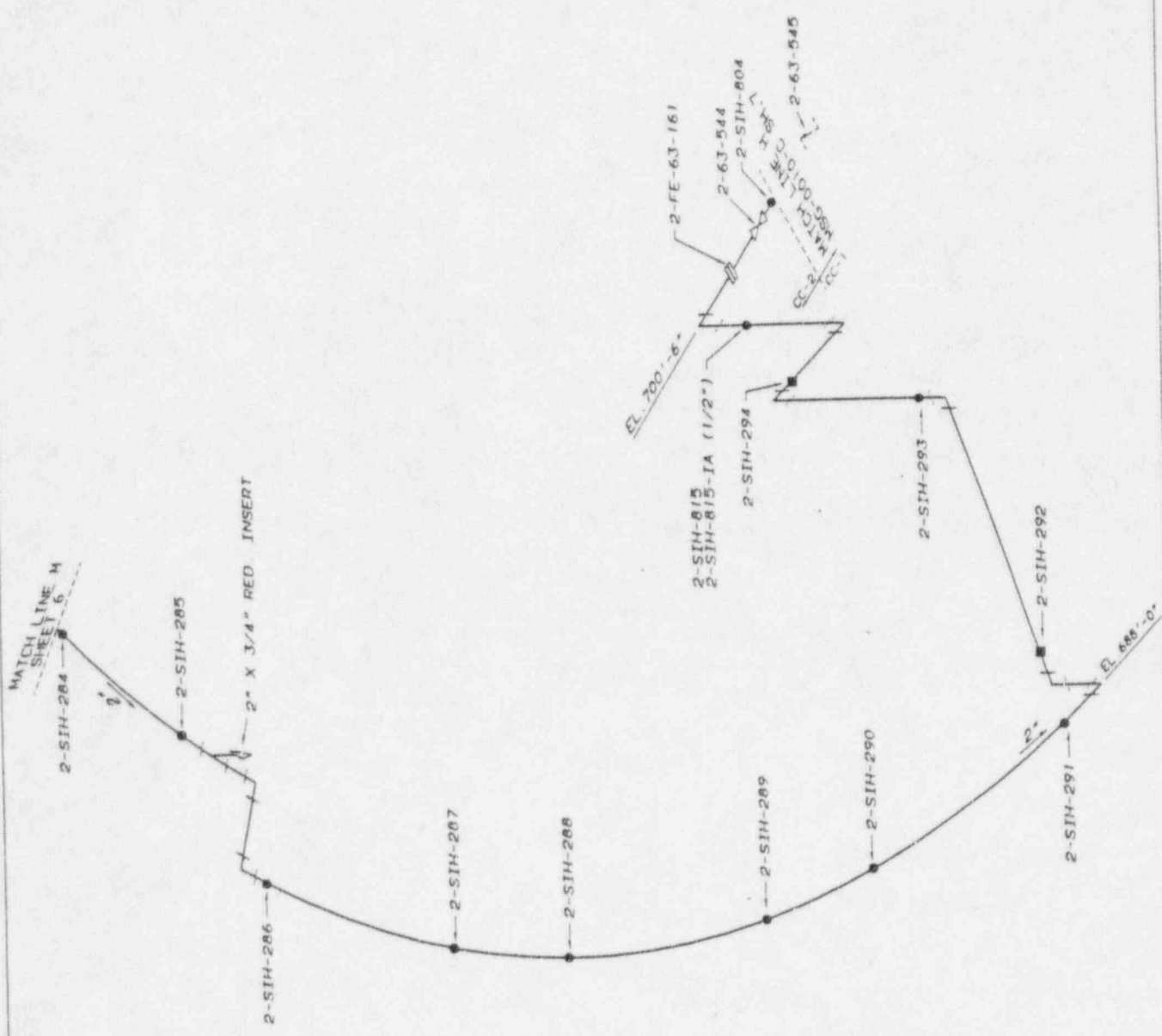
REFERENCE DRAWINGS:
 CONTRACT NO. TV-42499-09-04
 DRAWING NOS. 0600102-09-11

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	DATE	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN	DATE	12-15-95	SCALE	NOT TO SCALE	
CHECKED	FILED	APPROVED	DATE	12-15-95	
REVISION	DATE	12-15-95	SCALE	NOT TO SCALE	
ISI-0449-C-07					



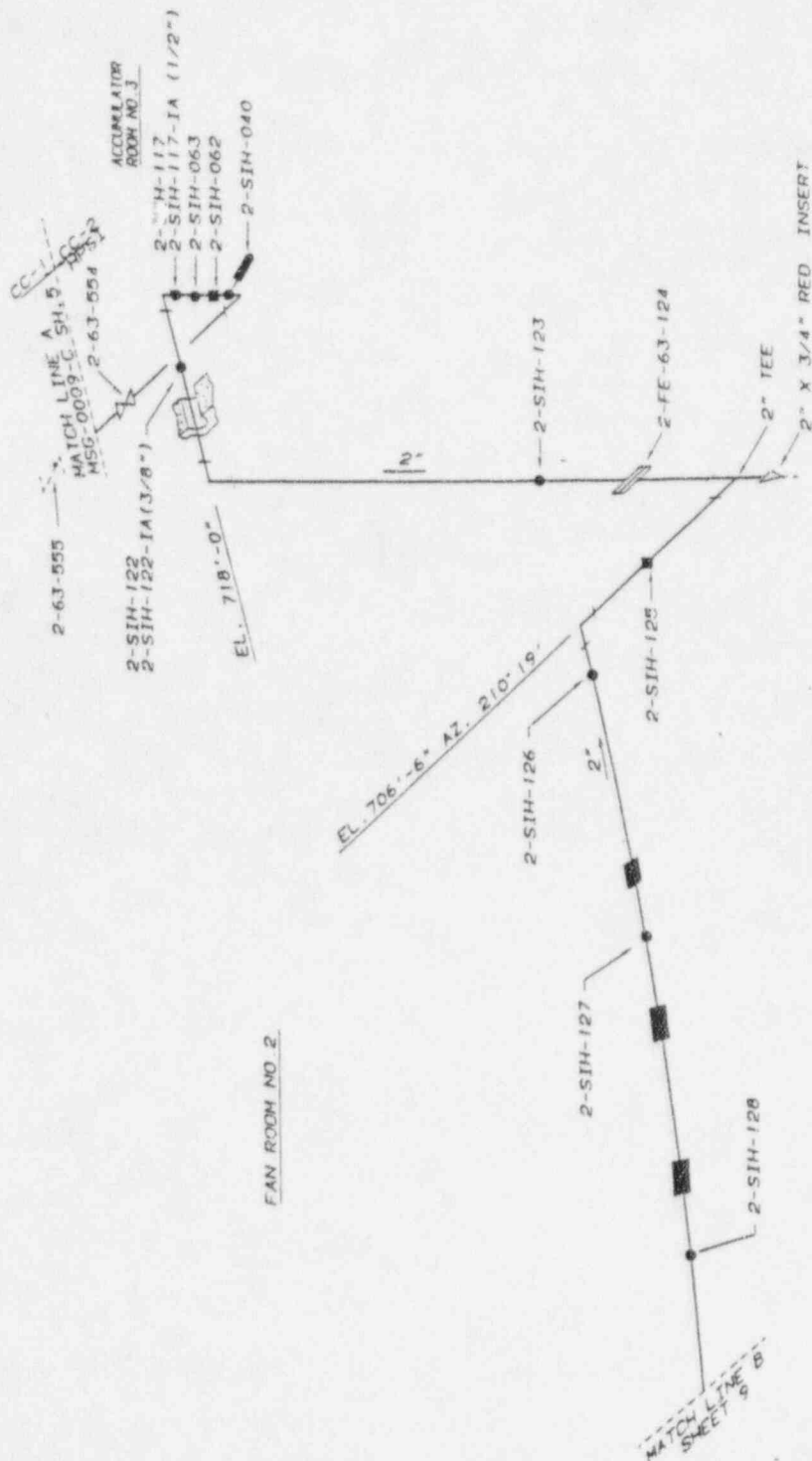
REFERENCE DRAWINGS

CONTRACT NO TV-42499A
DRAWING NOS 0600152-09-02
0600152-09-04

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SMURDER (FUNCTION D)

ASME CC-2 (EQUIVALENT)



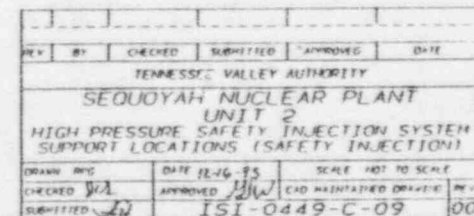
FAN ROOM NO. 2

REV	BY	CREATED	REVISION	APPROVED	DATE
1					
<p>SEDOYAH NUCLEAR PLANT UNIT 2 HIGH PRESSURE SAFETY INJECTION SYSTEM SUPPORT LOCATIONS (SAFETY INJECTION)</p>					
DATE 12-06-85	SCALE 1/4" = 1'-0"	DATE 12-06-85	SCALE 1/4" = 1'-0"	DATE 12-06-85	SCALE 1/4" = 1'-0"
CHECKED BY J.A.	APPROVED BY J.A.	CHECKED BY J.A.	APPROVED BY J.A.	CHECKED BY J.A.	APPROVED BY J.A.
SUBMITTED	ISI-0449-C-08	ISI-0449-C-08	ISI-0449-C-08	ISI-0449-C-08	ISI-0449-C-08

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)

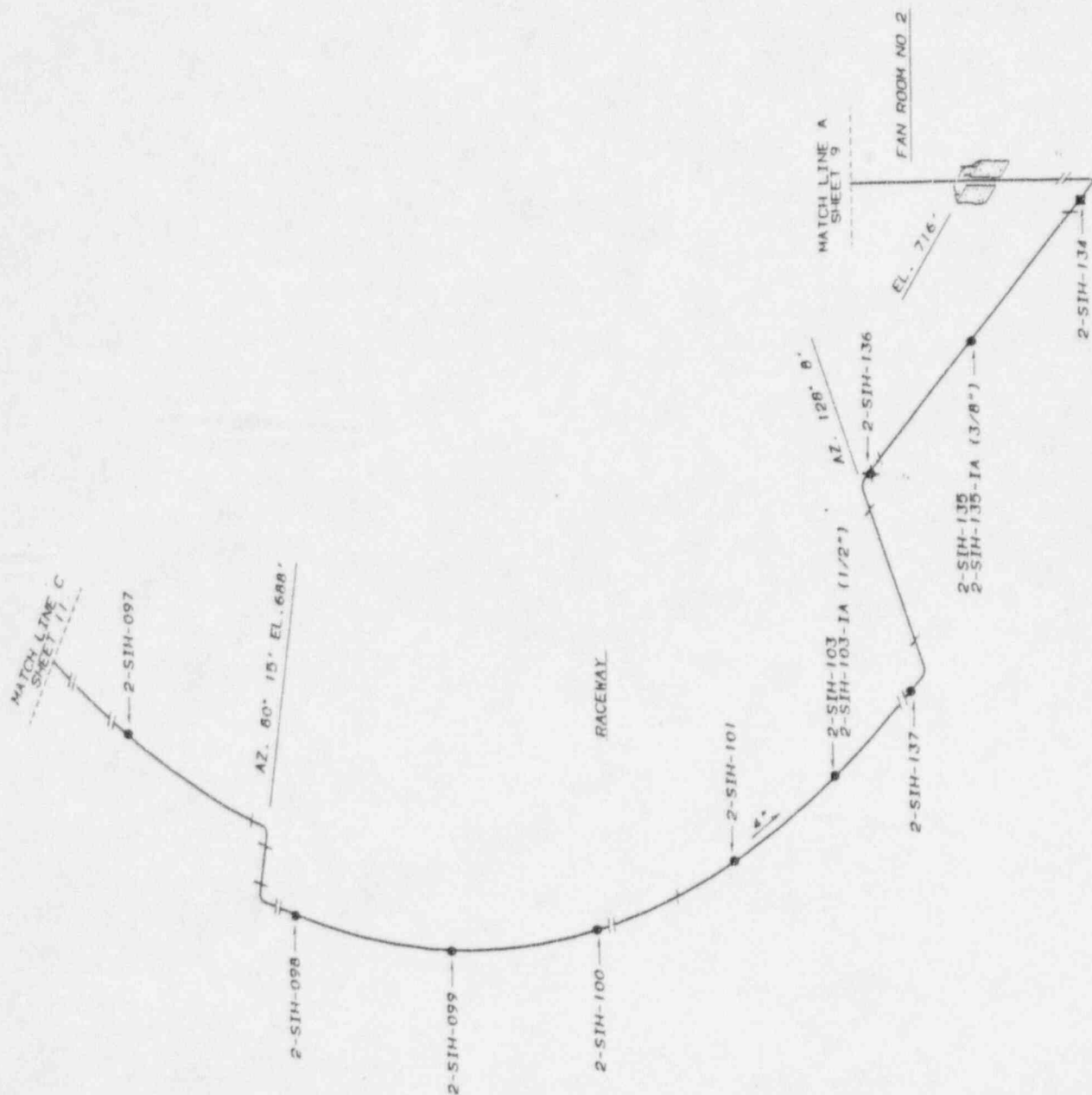


REFERENCE DRAWINGS:
 CONTRACT NO TV-42499A
 DRAWING NOS 0600102-09-03
 0600152-09-04

LEGEND

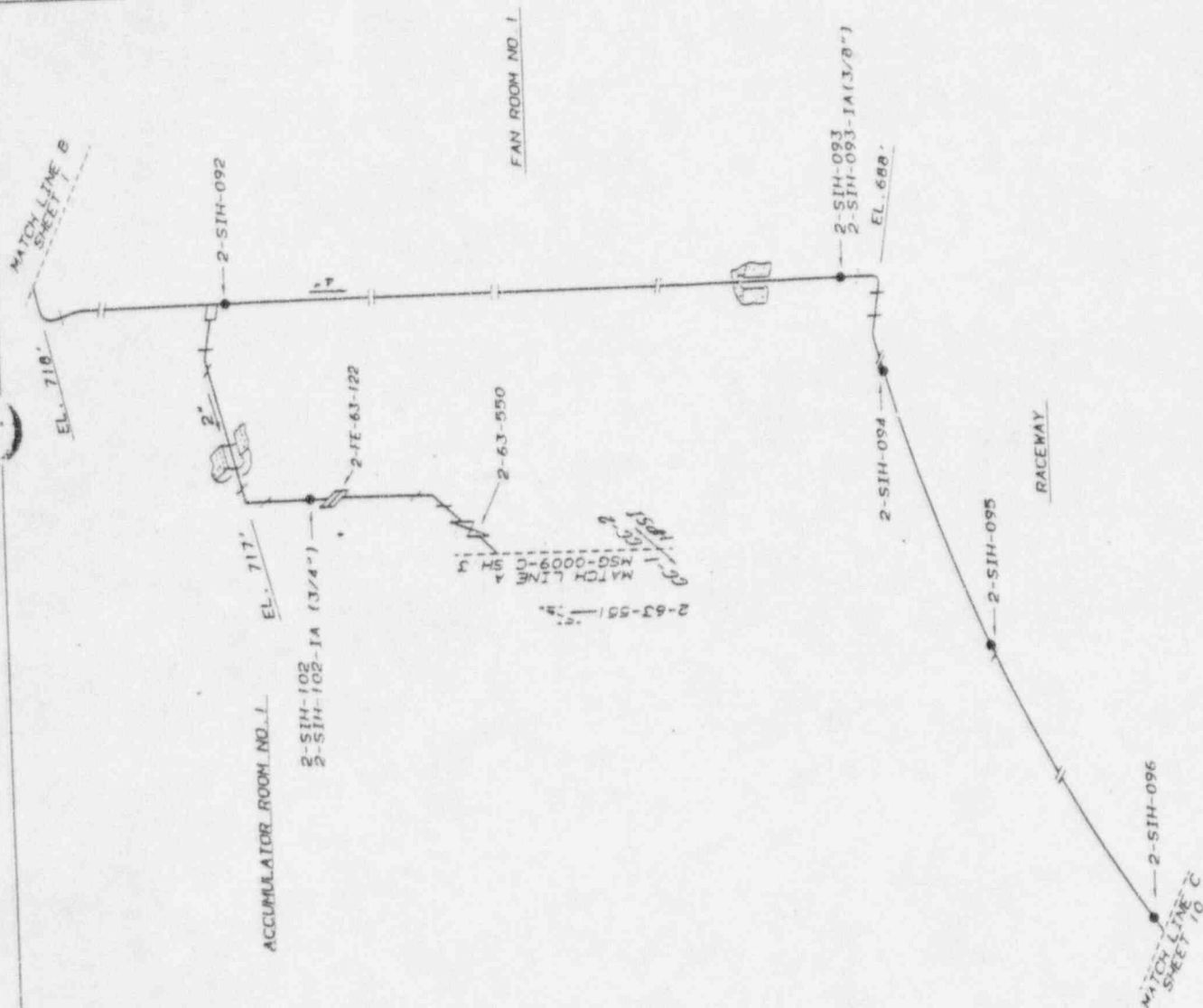
- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✱ VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN NO	DATE	BY	DATE	SCALE	NOT TO SCALE
0600102-09-03	11/16/75	JW	11/16/75	1/4\"	
CHECKED BY	APPROVED	DATE	SCALE	NOT TO SCALE	
JW	JW	11/16/75	1/4\"		
SUBMITTED BY	DATE	SCALE	NOT TO SCALE		
JW	11/16/75	1/4\"			
151-0449-C-10					
00					

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOLJOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
OPINION AND	DATE	72-16-95	SCALE		NOT TO SCALE
CHECKED <i>SL</i>	APPROVED <i>SLW</i>	CND		SAFESHIELD DRAWING	BY
SUBMITTED <i>SLW</i>	ISI-0449-C-1				00

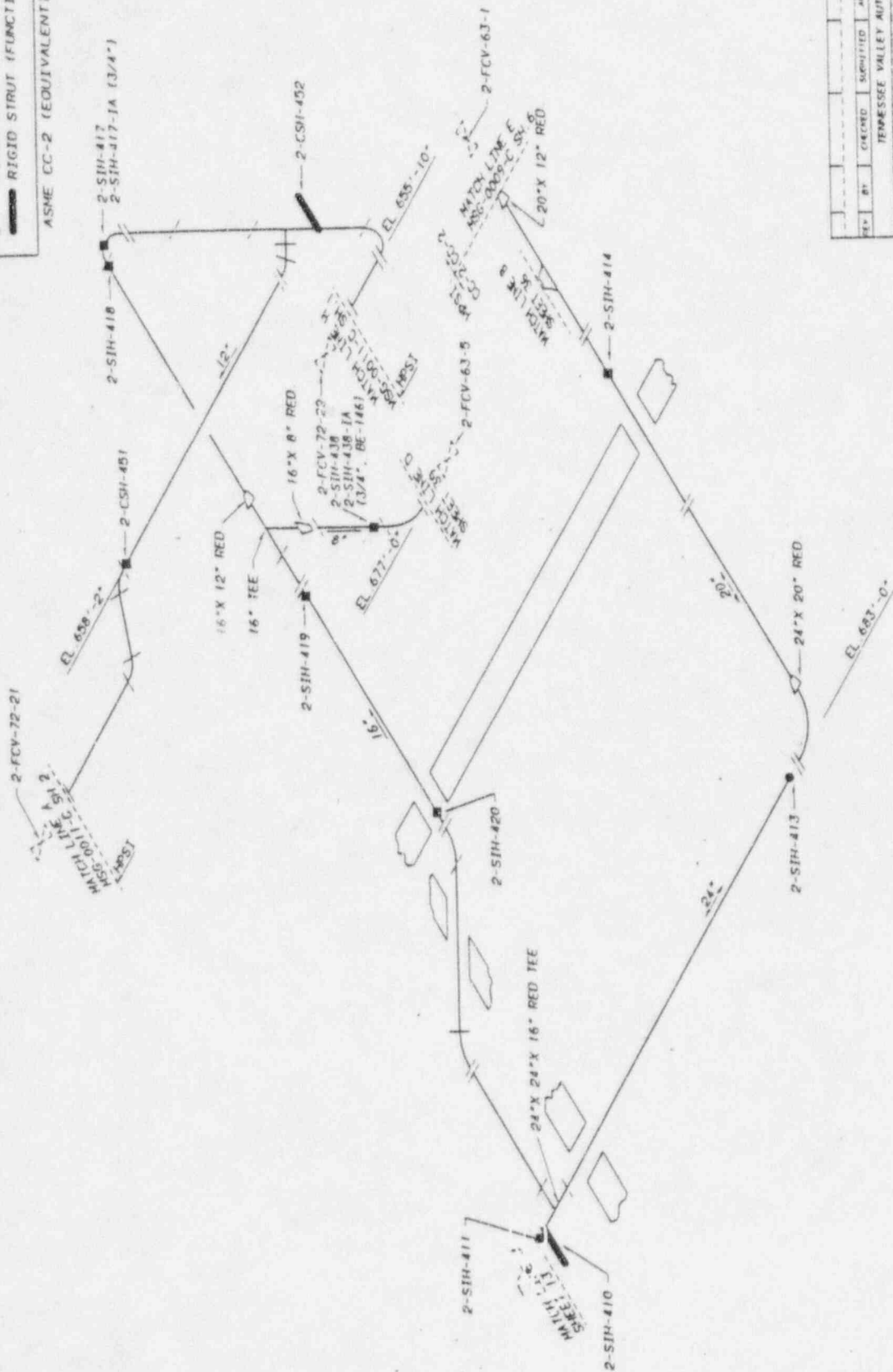
REFERENCE DRAWING

47K435-50
47K435-51
47K435-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					

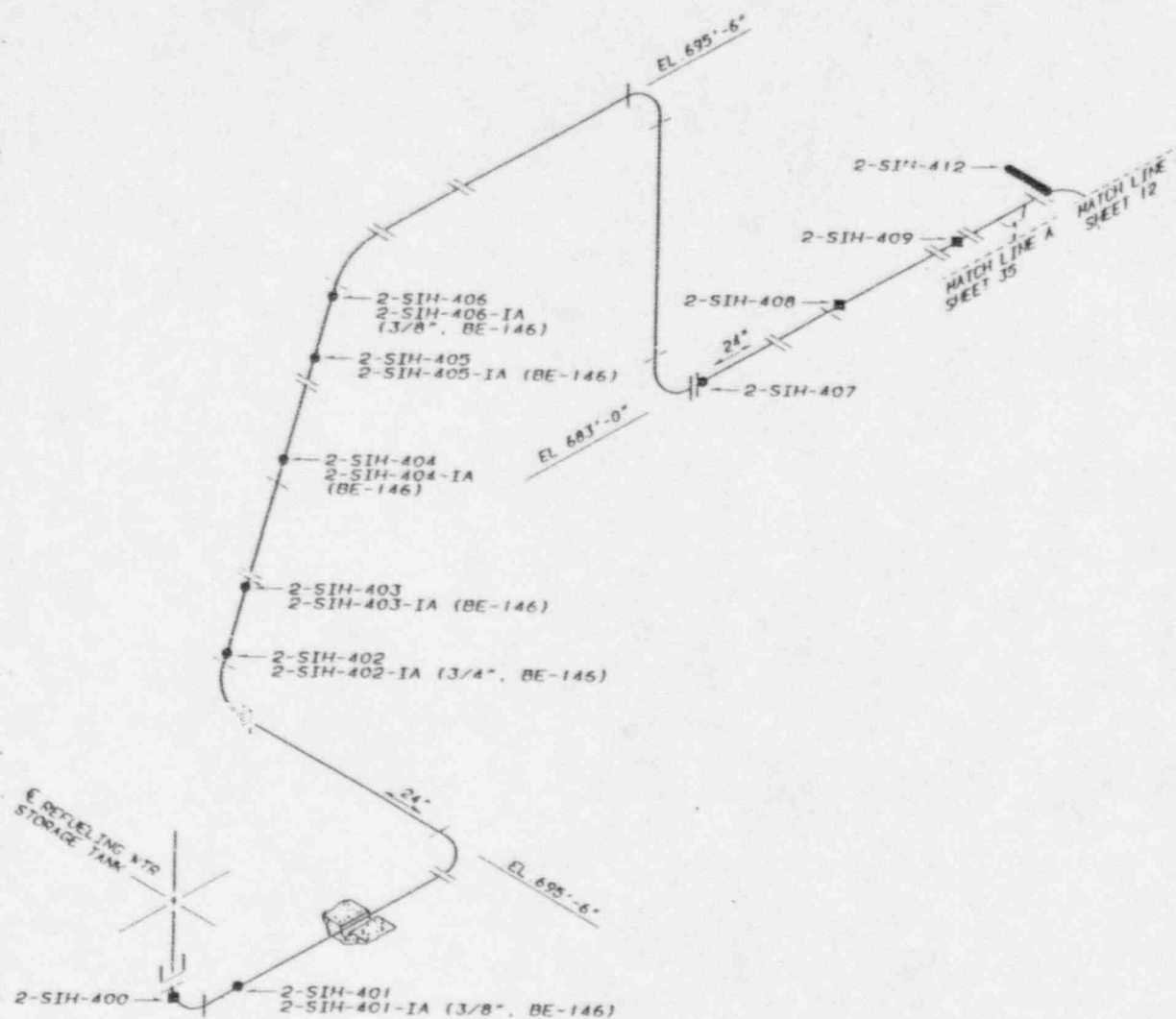
TENNESSEE VALLEY AUTHORITY	
SEOUYAH NUCLEAR PLANT	
UNIT 2	
HIGH PRESSURE SAFETY INJECTION SYSTEM	
SUPPORT LOCATIONS (SAFETY INJECTION)	
DESIGN NO.	DATE 12-16-75
CREATED BY	APPROVED BY
SCALE 1/4" = 1'-0"	SCALE 1/4" = 1'-0"
SUBMITTED BY	ISI-0449-C-12
	00

REFERENCE DRAWINGS
47K435-50

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN: RDC	DATE: 12-14-95	SCALE: NOT TO SCALE			
CHECKED: DCA	APPROVED: JLT	CAD: MONTAGNER	REV		
SUBMITTED: JLT	ISI-0449-C-13		00		

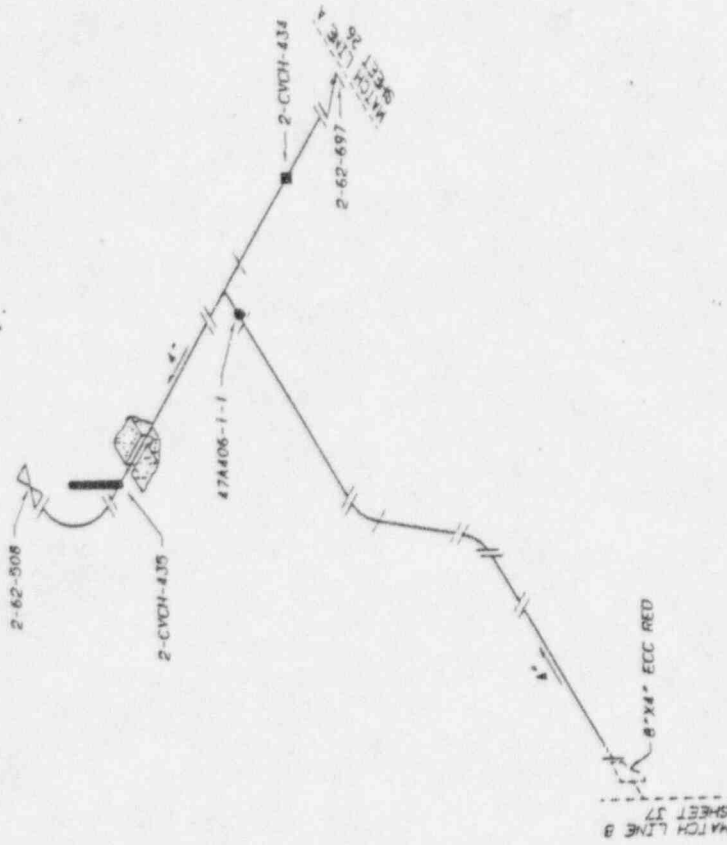
REFERENCE DRAWINGS

47R-06-59

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ▬ RIGID STRUT (FUNCTION A)

ASME C-2 (EQUIVALENT)

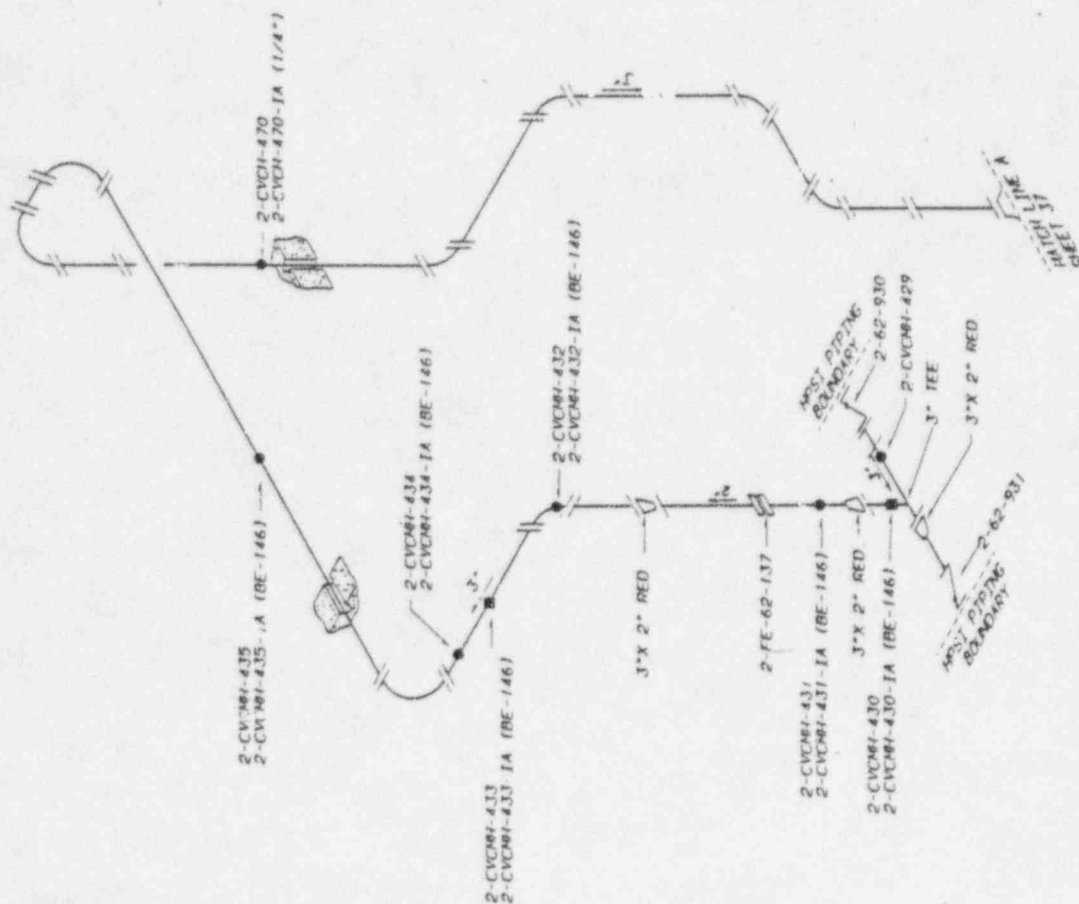


REV	BY	DATE	REVISION	APPROVED	DATE
1	W	12-18-75	1	W	12-18-75
Tennessee Valley Authority					
Sequoyah Nuclear Plant					
Unit 2					
High Pressure Safety Injection System					
Support Location, Mechanical and Volume Control					
DESIGNED BY	W	12-18-75	SCALE	NOT TO SCALE	
CHECKED BY	W	12-18-75	DATE	12-18-75	
APPROVED BY	W	12-18-75	DATE	12-18-75	
PROJECT NO.	ISI-0449-C-14				
SHEET NO.	00				

REFERENCE DRAWINGS
47K406-123
47K555-51

LEGEND
■ RIGID SUPPORT (FUNCTION A)
● RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS: MECHANICAL AND VOLUME CONTROL					
DESIGN	RDG	DATE	12-16-85	SCALE	AS SHOWN
CHECKED	RDG	APPROVED	RDG	DATE	12-16-85
SUBMITTED	RDG	DATE	12-16-85	SCALE	AS SHOWN
ISI-0449-C-15					
100					

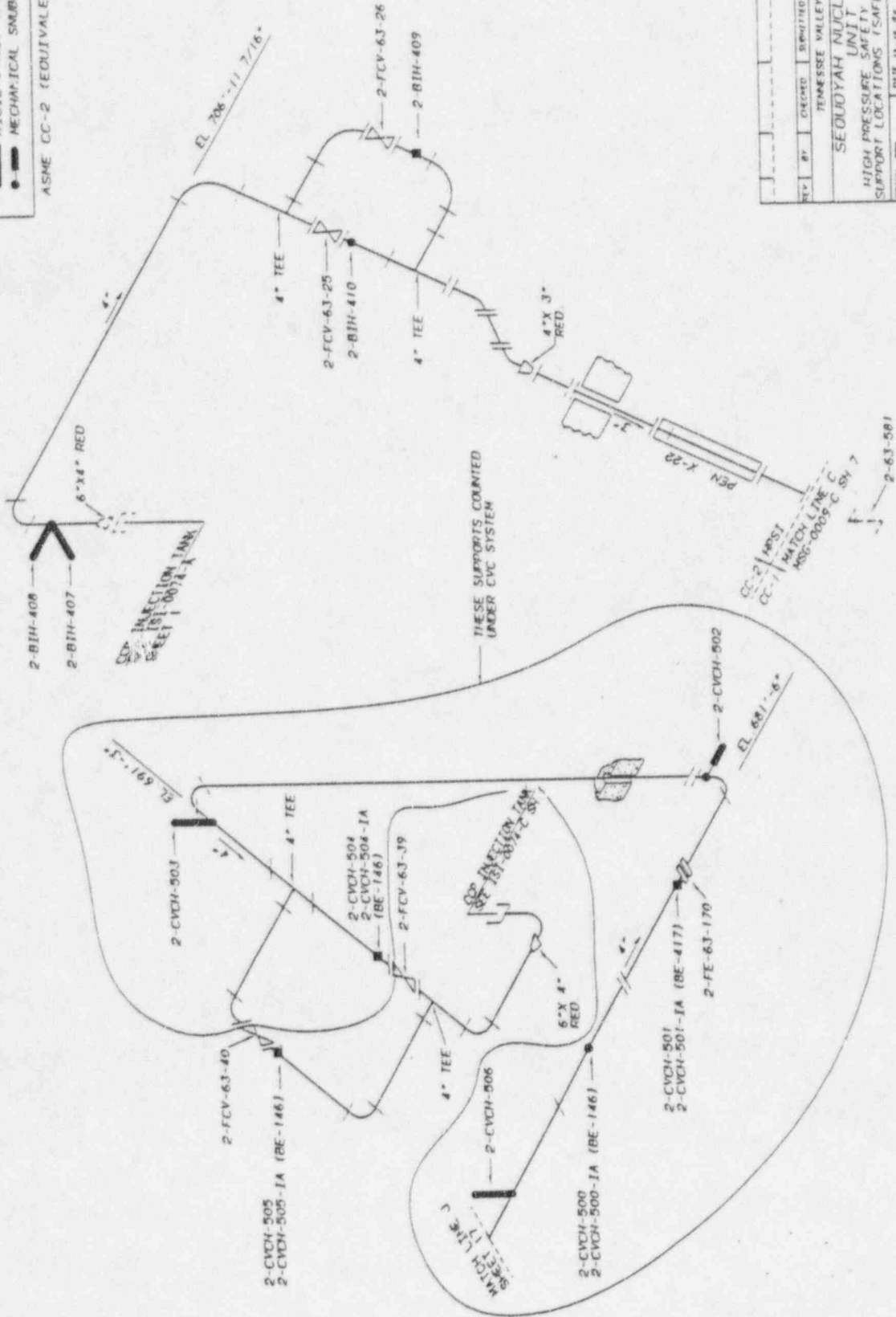
REFERENCE DRAWINGS

47K406-61
47K406-111
CONTRACT NO TV-42499A
DRAWING NO 0600102-09-05

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)



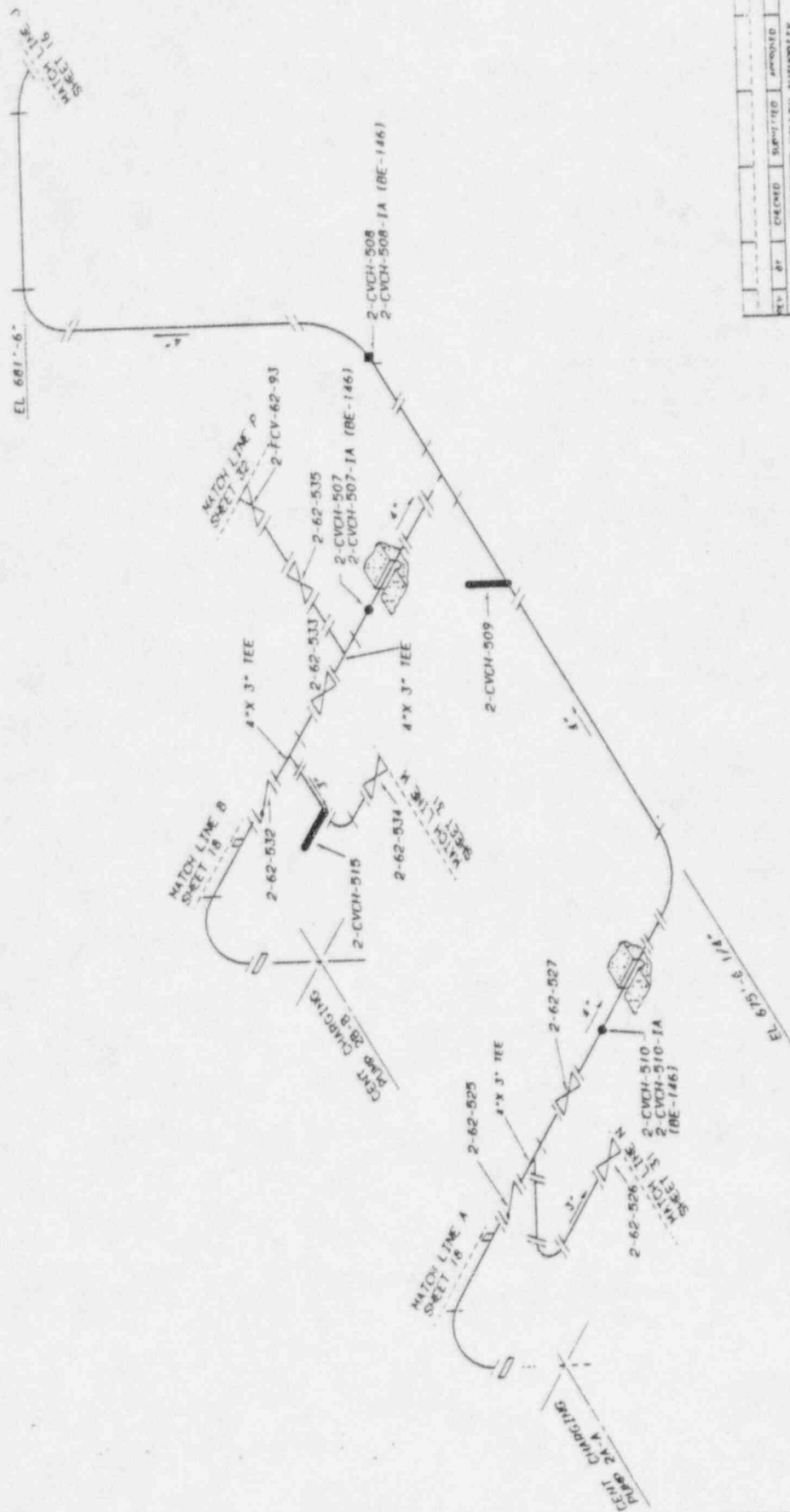
REV	BY	CHKD	DESIGNED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION PUMP)					
DESIGN	DATE 12/16/85	SCALE 10" = 1'-0"			
DESIGNED BY	APPROVED BY	SCALE 10" = 1'-0"			
SUBMITTED	DATE 12/16/85	SCALE 10" = 1'-0"			
ISI-0449-C-16					
00					

REFERENCE DRAWINGS
47H406-110

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



REV	DATE	BY	CHKD	APP'D	QTY
1	12-18-85	AW	AW	AW	1
2	12-18-85	AW	AW	AW	1
3	12-18-85	AW	AW	AW	1
4	12-18-85	AW	AW	AW	1
5	12-18-85	AW	AW	AW	1
6	12-18-85	AW	AW	AW	1
7	12-18-85	AW	AW	AW	1
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11	12-18-85	AW	AW	AW	1
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14	12-18-85	AW	AW	AW	1
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16	12-18-85	AW	AW	AW	1
17	12-18-85	AW	AW	AW	1
18	12-18-85	AW	AW	AW	1
19	12-18-85	AW	AW	AW	1
20	12-18-85	AW	AW	AW	1

SEQUOYAH NUCLEAR PLANT

UNIT 2

HIGH PRESSURE SAFETY INJECTION SYSTEM

PIPEWORK LOCATIONS (FUNCTIONAL AND VOLUME CONTROL)

DATE 12-18-85 SCALE 1/4" = 1'-0"

DESIGNED BY AW

APP'D BY AW

QTY 1

REV 1

151-0449-C-17

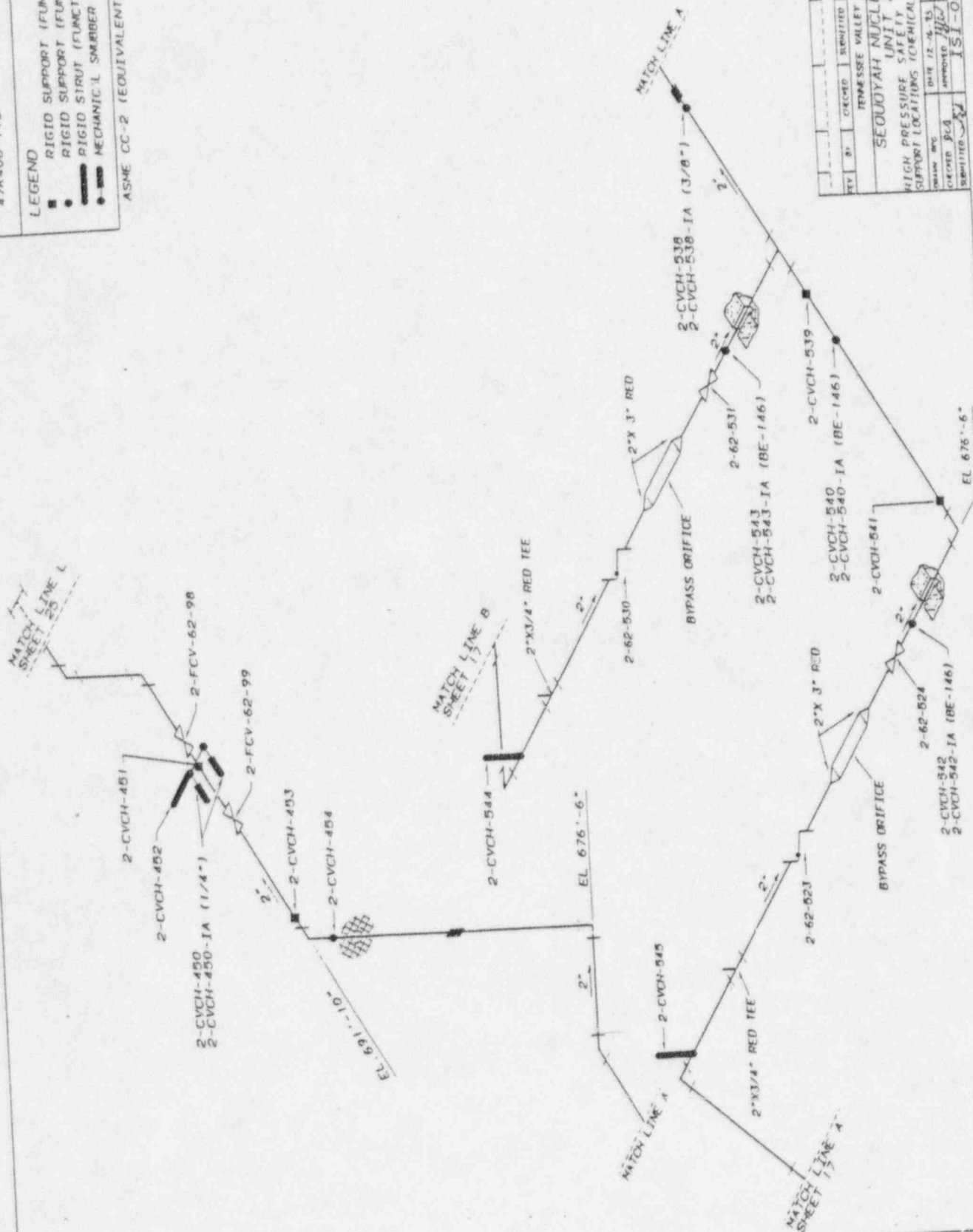
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A 7K406-110
A 7K406-115

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)

NAME CC-2 (EQUIVALENT)



REV	D	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYOAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS, CHEMICAL AND VOLUME CONTROL					
DESIGN NO.	DATE 12-26-75		SCALE 100' TO 10'-0"		FIG.
CHECKED gld	APPROVED WJF	COP REPRODUCED POSITIVE		00	
REVISIONS	ISI-0449-C-18				

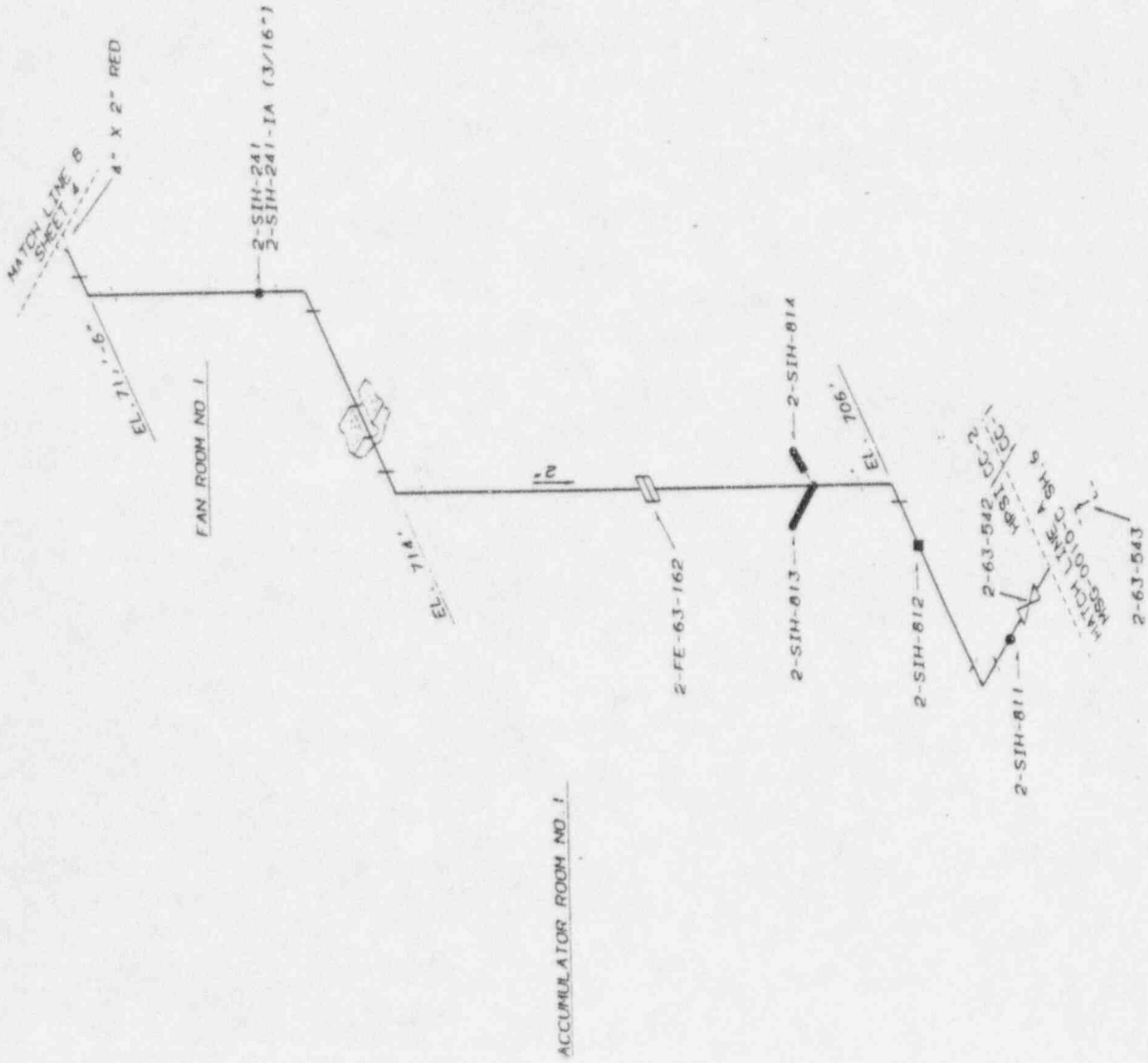
REFERENCE DRAWINGS:

CONTRACT NO. TV-42499A
DRAWING NOS. 0600102-09-07
0600102-09-11

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)
- MECHANICAL SMURDER (FUNCTION D)

ASME CC-2 (EQUIVALENT)



REV. 01 DEC. 1973 SUBMITTED 01 DEC. 1973

SEQUOYAH NUCLEAR PLANT
UNIT 2

HIGH PRESSURE SAFETY INJECTION SYSTEM
SUPPORT LOCATIONS (SAFETY INJECTION)

DESIGNED BY: [Signature] DATE: 12/16/73 SCALE: 1/8\"/>

CHECKED BY: [Signature] DATE: 12/16/73 SCALE: 1/8\"/>

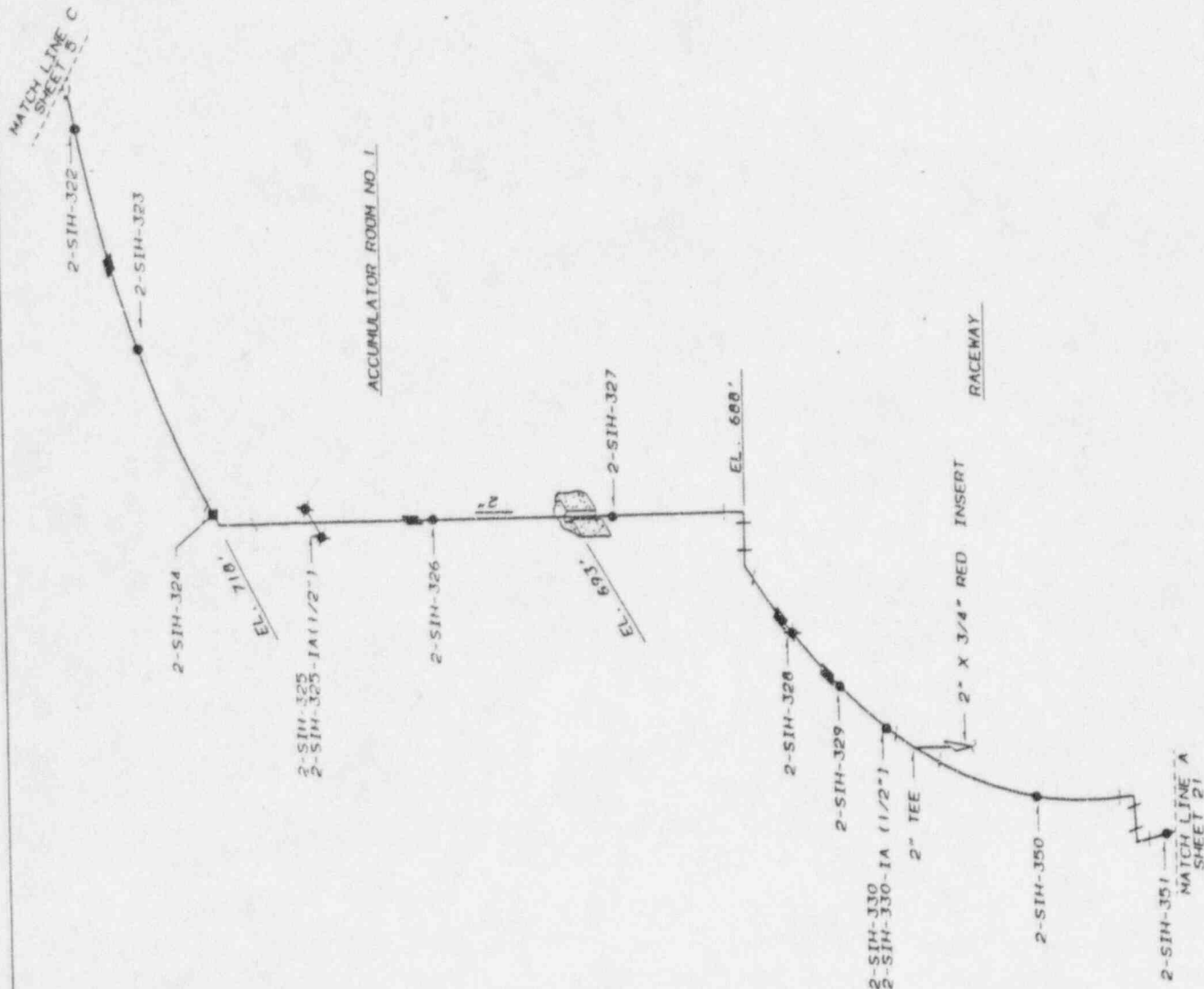
APPROVED BY: [Signature] DATE: 12/16/73 SCALE: 1/8\"/>

PROJECT NO. ISI-0449-C-19 00

REFERENCE DRAWINGS
 47K435-87
 CONTRACT NO. TV-42499A
 DRAWING NO. 0600102-09-09

LEGEND
 ■ RIGID SUPPORT (FUNCTION A)
 ● RIGID SUPPORT (FUNCTION B)
 ▣ VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)



REV	BY	CREATED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY SELECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN NO.	DATE	12-16-93	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	WHL	CAD MANAGED DRAWING	REV	
SUBMITTED	BY	ISI-0449-C-20	100		

REFERENCE DRAWINGS
47K435-B3

LEGEND

- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



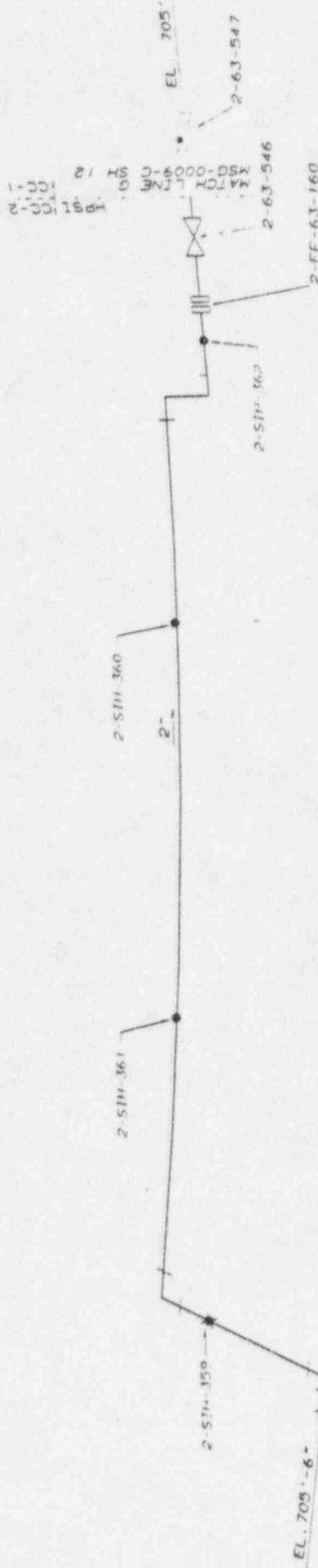
REV	BY	CREATED	REVIEWED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGN BY	DATE	12-26-75	SCALE	NOT TO SCALE	
CHECKED BY	DATE	1/14/76	CAD	NOT TO SCALE	
SUBMITTED BY	DATE	1/14/76	SCALE	NOT TO SCALE	
ISI-0449-C-21					
00					

REFERENCE DRAWINGS
47K435-83

LEGEND

- RIGID SUPPORT (FUNCTION B)
- ⊗ VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)



FAN ROOM NO. 2

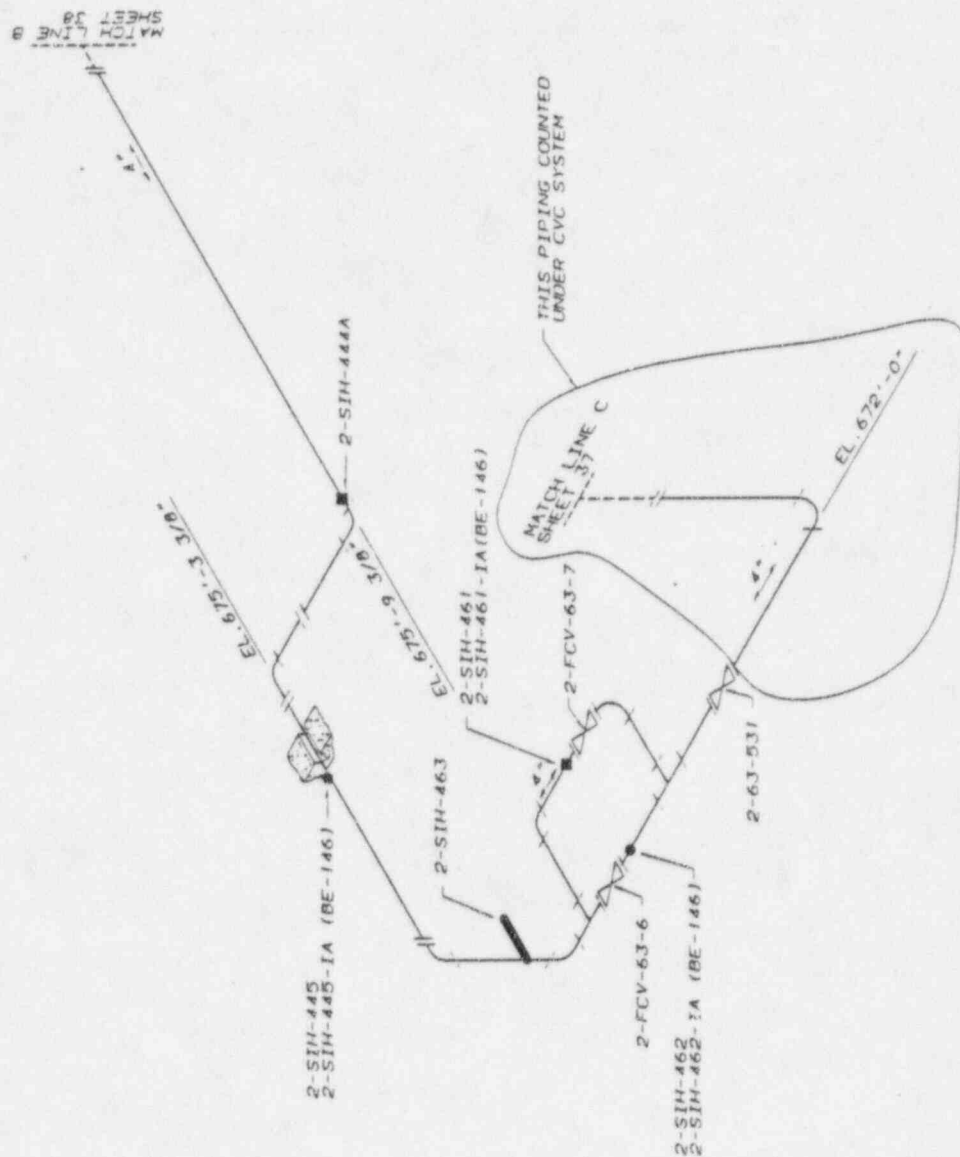
REV	BY	CHKD	DATE	APPD	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DESIGNED BY	CHKD BY	DATE	SCALE	DATE	BY
47K435-83	47K435-83	12-16-85	1/4" = 1'-0"	12-16-85	47K435-83
REVISED	BY	DATE	DESCRIPTION	DATE	BY
1	47K435-83	12-16-85	1/4" = 1'-0"	12-16-85	47K435-83
ISI-0449-C-22					
00					

REFERENCE DRAWINGS
47K406-123, 47K435-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



THIS PIPING COUNTED
UNDER CVC SYSTEM

MATCH
SHEET 37

MATCH
LINE C

EL. 672'-0"

EL. 675'-3 3/8"

EL. 675'-9 3/8"

MATCH
LINE B

SHEET 38

DATE 11-4-55

SCALE 1/8" = 1'-0"

DESIGNED BY

CHECKED BY

DATE 11-4-55

SCALE 1/8" = 1'-0"

PROJECT NO.

UNIT 2

SYSTEM

DESCRIPTION

UNIT 2

SYSTEM

DESCRIPTION

UNIT 2

SYSTEM

DESCRIPTION

UNIT 2

SYSTEM

DESCRIPTION

UNIT 2

SYSTEM

DESCRIPTION

UNIT 2

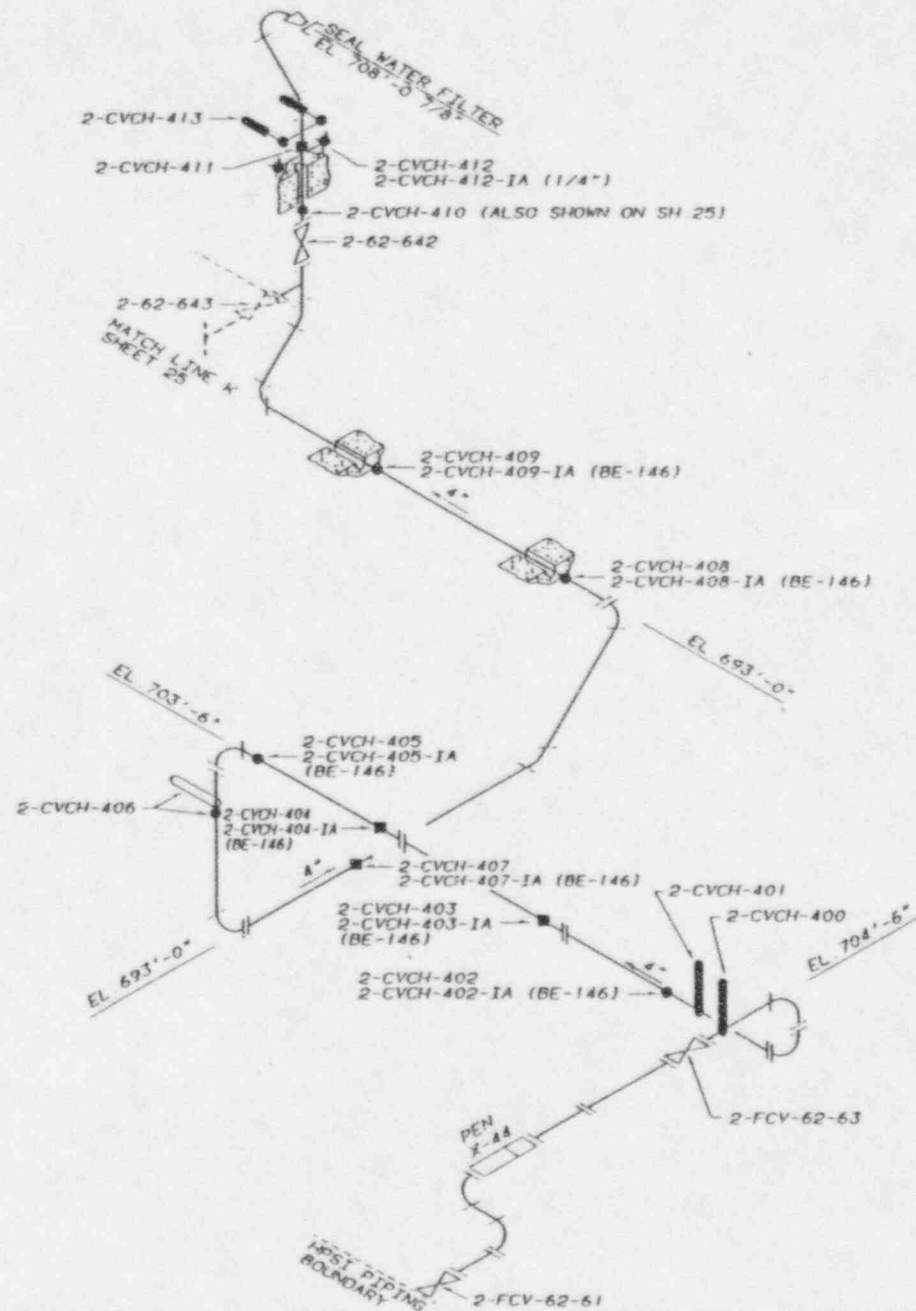
SYSTEM

DESCRIPTION

UNIT 2

SYSTEM

DESCRIPTION



REFERENCE DRAWINGS

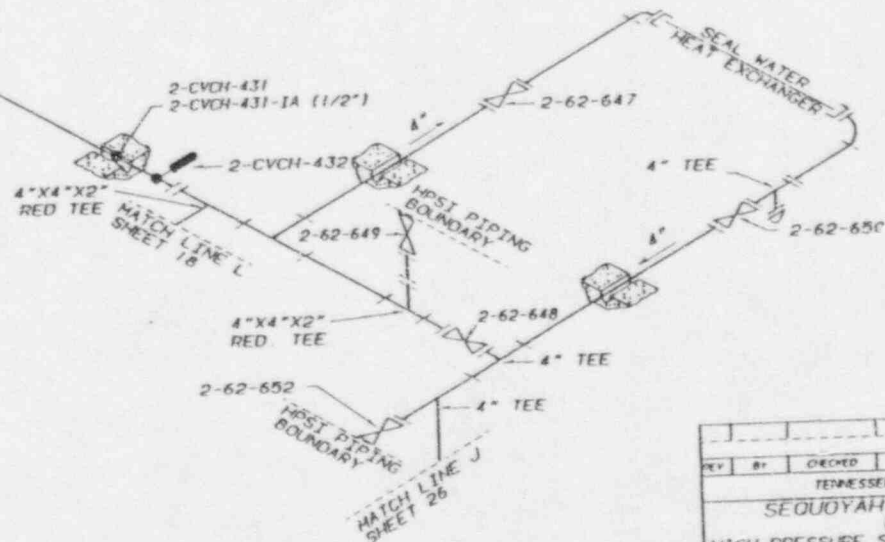
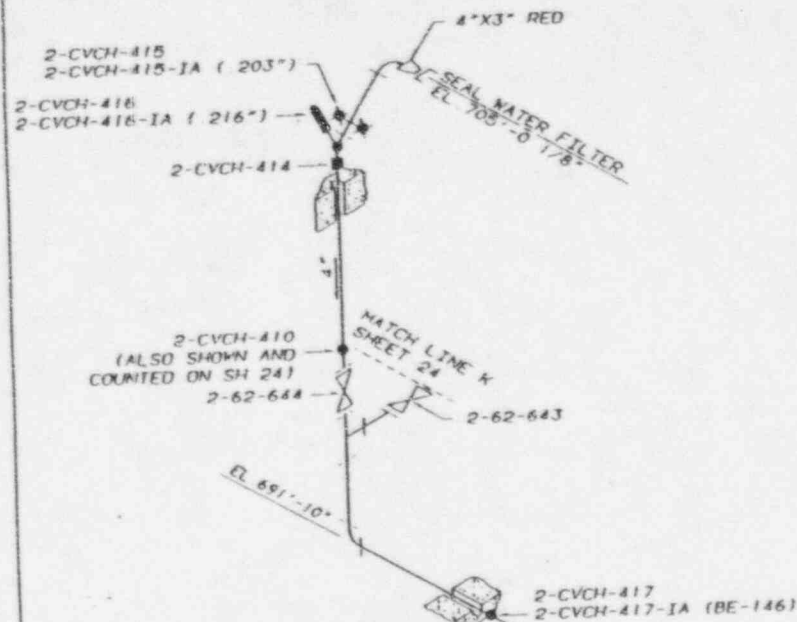
2-47K+06-50
47K406-118

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- ▬ RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)
- RIGID STRUT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN BY	DATE	DATE	DATE	SCALE	NOT TO SCALE
CHECKED BY	APPROVED	APPROVED	APPROVED	CAD MAINTAINED DRAWING	REV
SUBMITTED	ISI-0449-C-24				00



REFERENCE DRAWINGS
2-47K406-50
47K406-59

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)
- ASME CC-2 (EQUIVALENT)

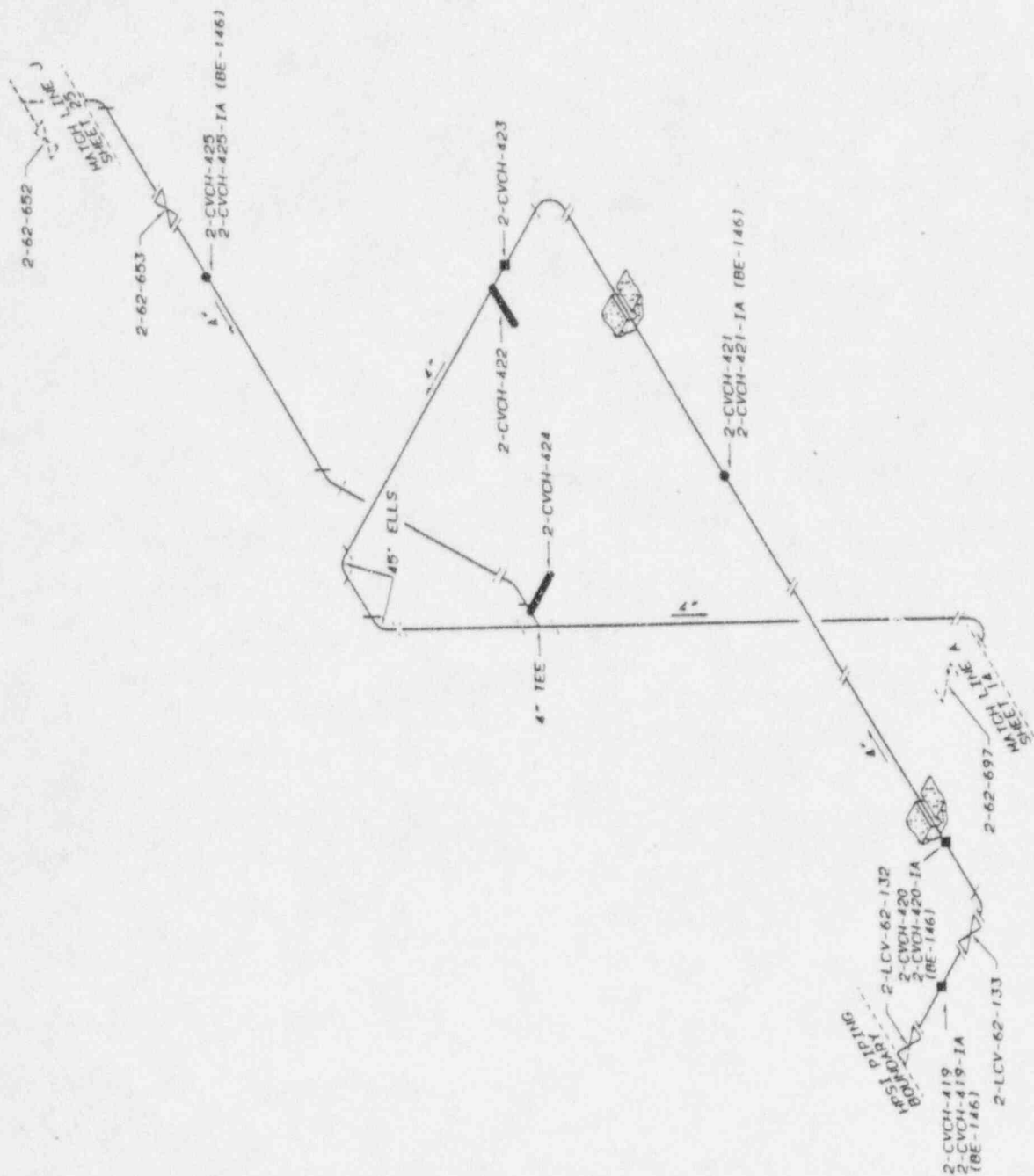
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DESIGN	ENG	DATE	12-16-85	SCALE	NOT TO SCALE
CHECKED	JLD	APPROVED	JLD	CAD MAINTAINED DRAWING	REV
SUBMITTED	JLD	ISI-0449-C-25	00		

REFERENCE DRAWINGS
47K406-59

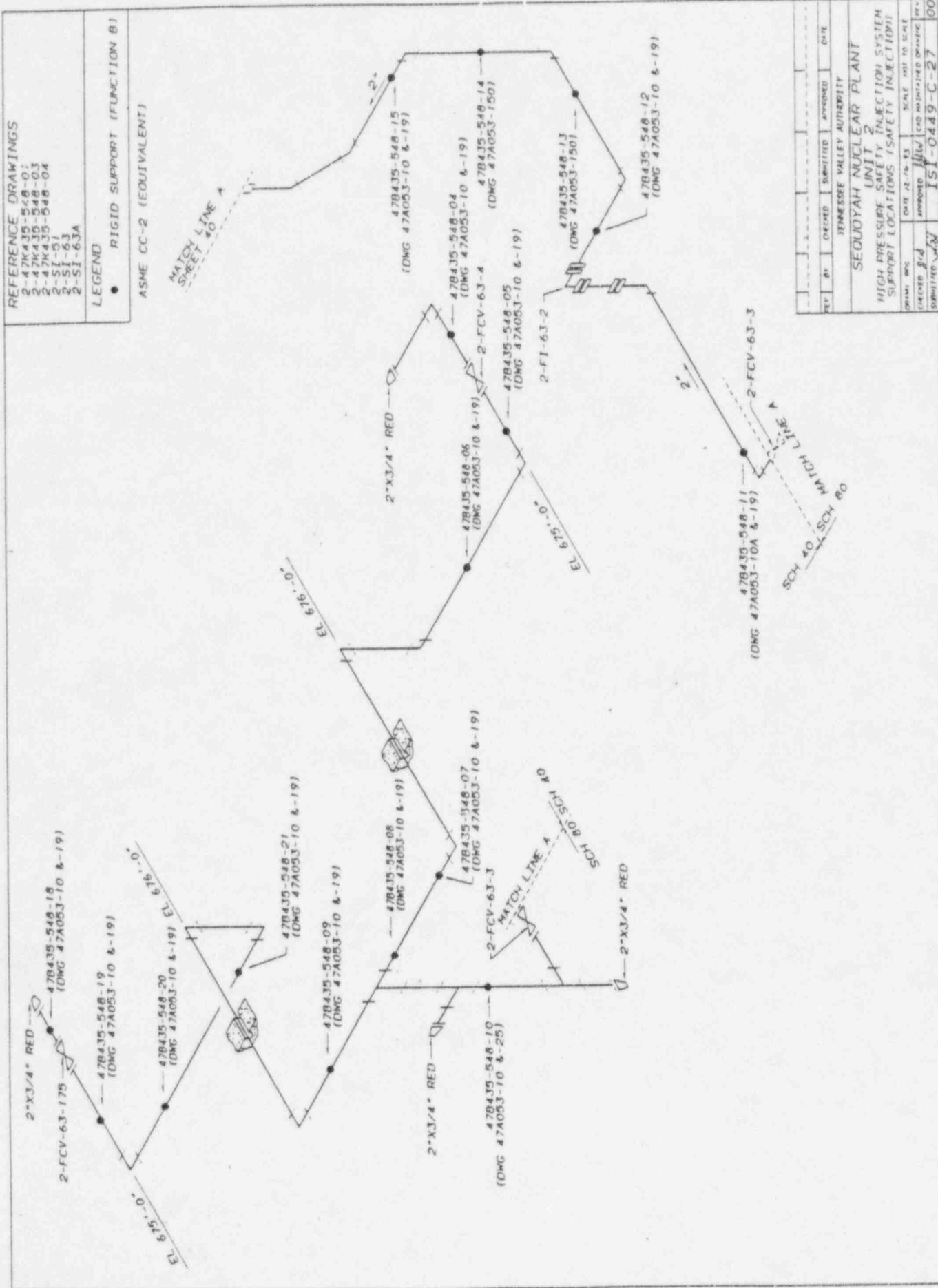
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEQUOIA NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DESIGN NO.	DATE	BY	SCALE	NOT TO SCALE	
CHECKED <i>J.D.</i>	APPROVED <i>[Signature]</i>	DATE 11-18-93	SCALE	NOT TO SCALE	
SUBMITTED <i>[Signature]</i>	DATE 11-18-93	SCALE	NOT TO SCALE		
ISI-0449-C-26					00



REFERENCE DRAWINGS

- 3-478435-548-01
- 3-478435-548-02
- 3-478435-548-03
- 3-478435-548-04
- 3-51-61
- 3-51-63
- 3-51-63A

LEGEND

- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)

MATCH LINE A
SHEET 40

MATCH LINE A
SHEET 40

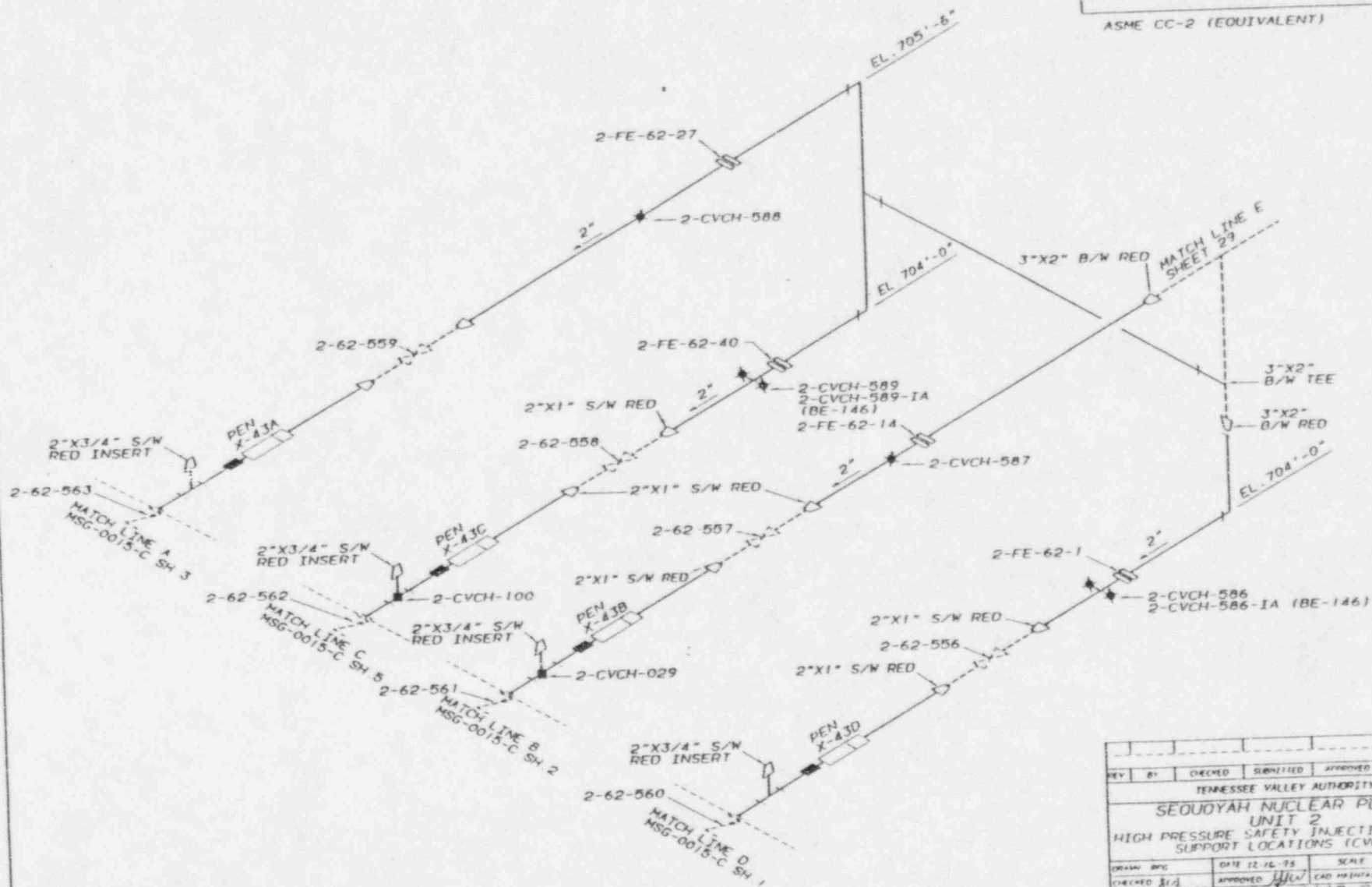
REV	BY	CREATED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION)					
DRWN	WMS	DATE 12/16/93	SCALE 100% TO SCALE	REV	
CHECKED	JLD	APPROVED	CDI MINOR/ED REVISION	REV	
SUBMITTED	AN	DATE 12/16/93	SCALE 100% TO SCALE	REV	
ISI-0449-C-27					
100					

REFERENCE DRAWINGS
 0600102-08-05
 47K406-101
 47K406-112
 47K406-116
 47K406-121

LEGEND

- RIGID SUPPORT (FUNCTION A)
- VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)



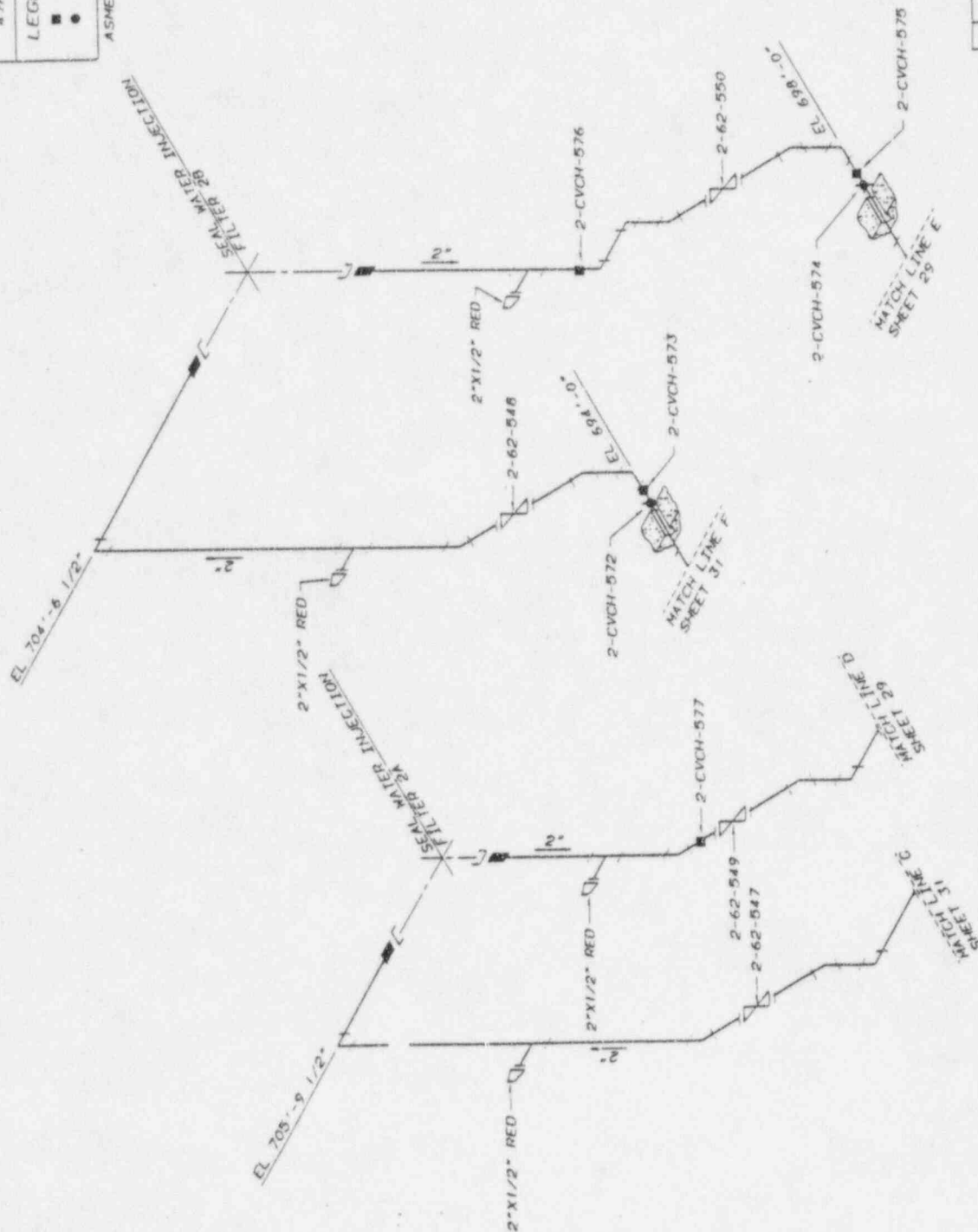
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRAWN BY		DATE 12-16-78		SCALE NOT TO SCALE	
CHECKED BY		APPROVED		CAD MANIPULATED COPIES	
SUBMITTED		151-0449-C-28		00	

REFERENCE DRAWINGS
47K406-112

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCs)					
DESIGNED BY	DATE	12-14-95	SCALE	10:1 TO SIZE	
CHECKED BY	APPROVED	WJW	CND	MINIATURE DRAWING	
SUBMITTED BY					100
IST-0449-C-30					

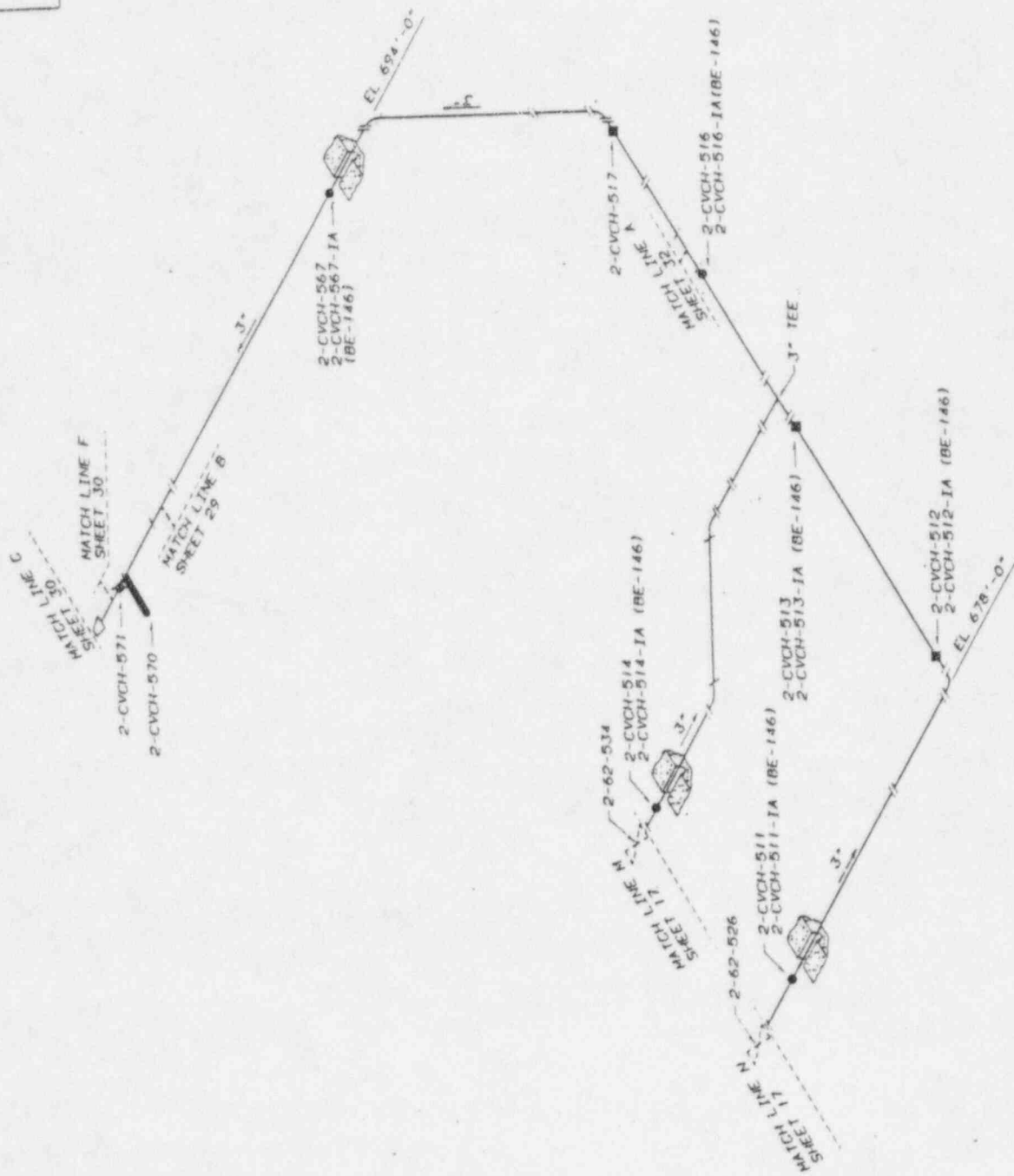
REFERENCE DRAWINGS

47K406-110
47K406-112

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



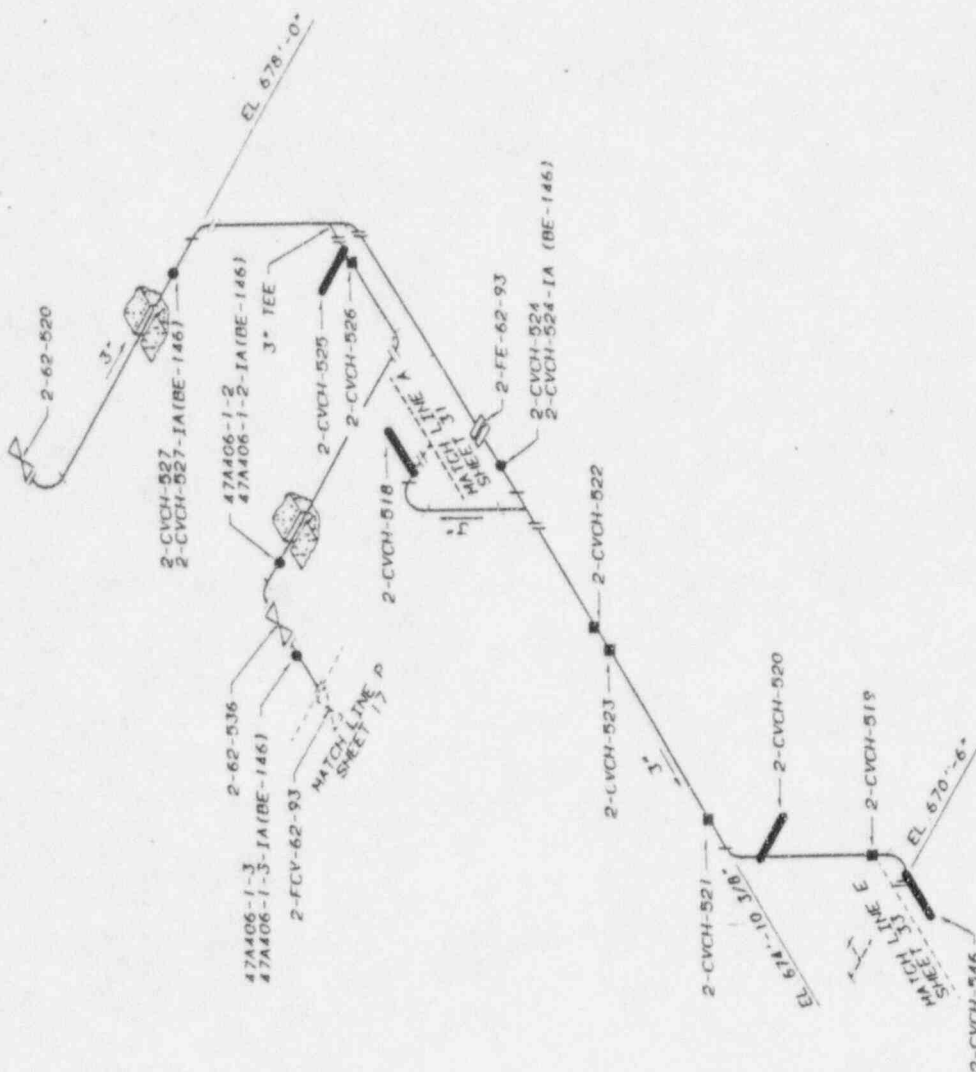
NO.	BY	CHECKED	SUBMITTED	APPROVED	DATE
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DESIGN NO.	DATE	BY	CHECKED	APPROVED	DATE
47K406-110	12-16-75	JH	JH	JH	12-16-75
SUBMITTED FOR REVIEW					
ISI-0449-C-31					

REFERENCE DRAWINGS
47A406-110

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



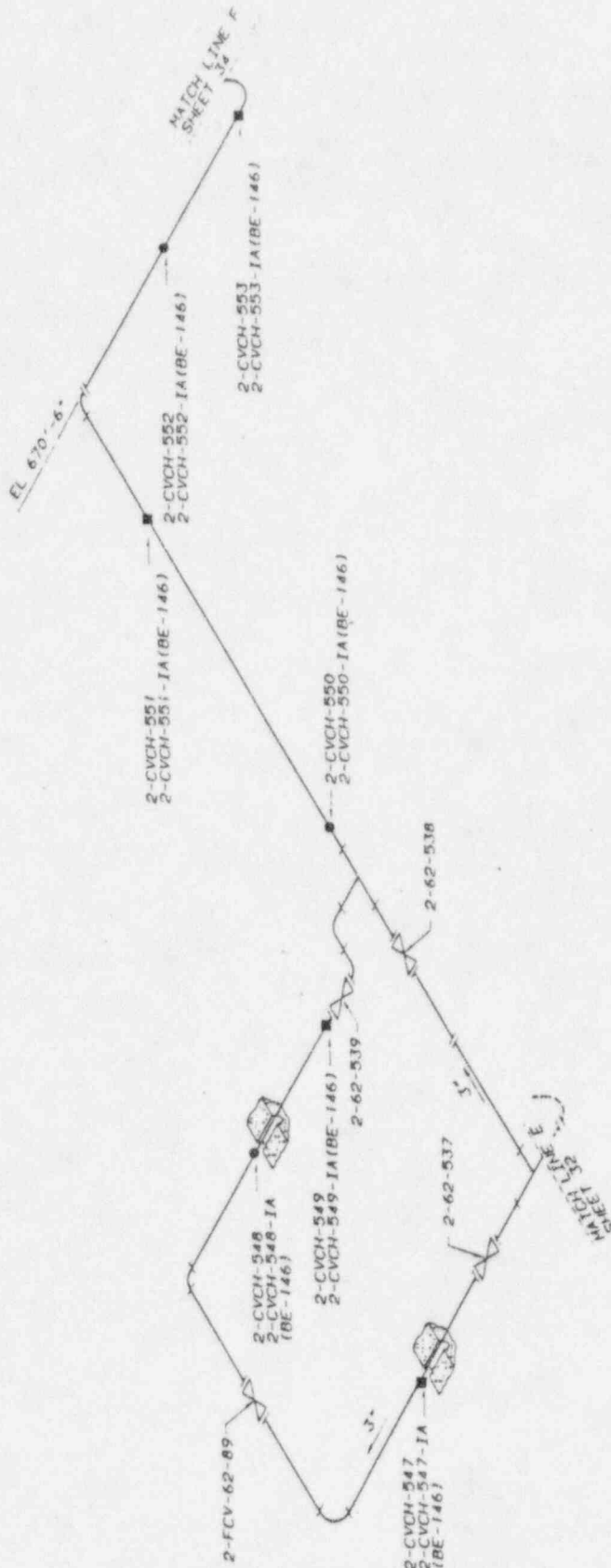
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEQUIOAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DESIGNED BY	DATE	12-16-93	SCALE	NOT TO SCALE	
CHECKED S/A	APPROVED	WJ	CAD	MINIPLANT DESIGN	100
SUBMITTED	IN	ISI-0449-C-32			

REFERENCE DRAWINGS
47K406-110
47K406-111

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	APPROVED	DATE
1				
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
HIGH PRESSURE SAFETY INJECTION SYSTEM				
SUPPORT LOCATIONS (CVCS)				
DESIGN NO.	DATE	SCALE	BY	APP'D
47K406-110	11-14-85	1" = 10' 0"	J. J. J.	J. J. J.
CHECKED BY	DATE	SCALE	BY	APP'D
J. J. J.	11-14-85	1" = 10' 0"	J. J. J.	J. J. J.
SUBMITTED 11-14-85				
ISI-0449-C-33				

2-CVCH-555
2-CVCH-555-1A (0.216")

EL 706'-0"

2-CVCH-556

47A406-3-3

2-CVCH-554
2-CVCH-554-1A (BE-146)

MATCH LINE F
SHEET 33
EL 670'-6"

2-CVCH-558
2-CVCH-557

BEND
2-CVCH-559
EL 706'-5"

47A406-3-1

2-FCV-62-91

2-FCV-62-90
HPSI PIPING
BOUNDARY

REFERENCE DRAWINGS
47K406-111

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)

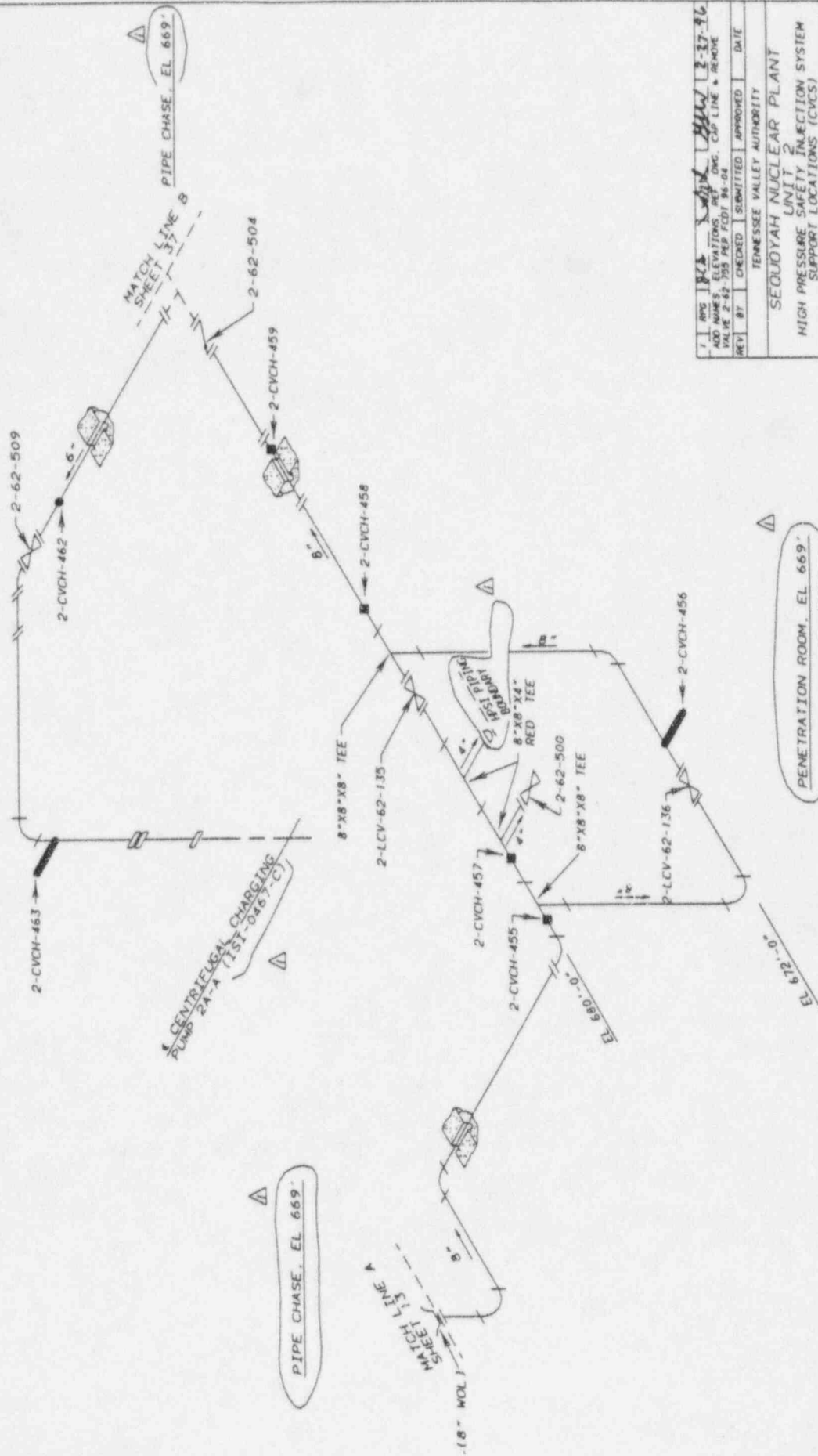
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCS)					
DRWN	ENC	DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED	BY	APPROVED	BY	CAD MAINTAINED DRAWING	REV
SUBMITTED	BY	ISI-0449-C-34	00		

REFERENCE DRAWINGS
47K406-123

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



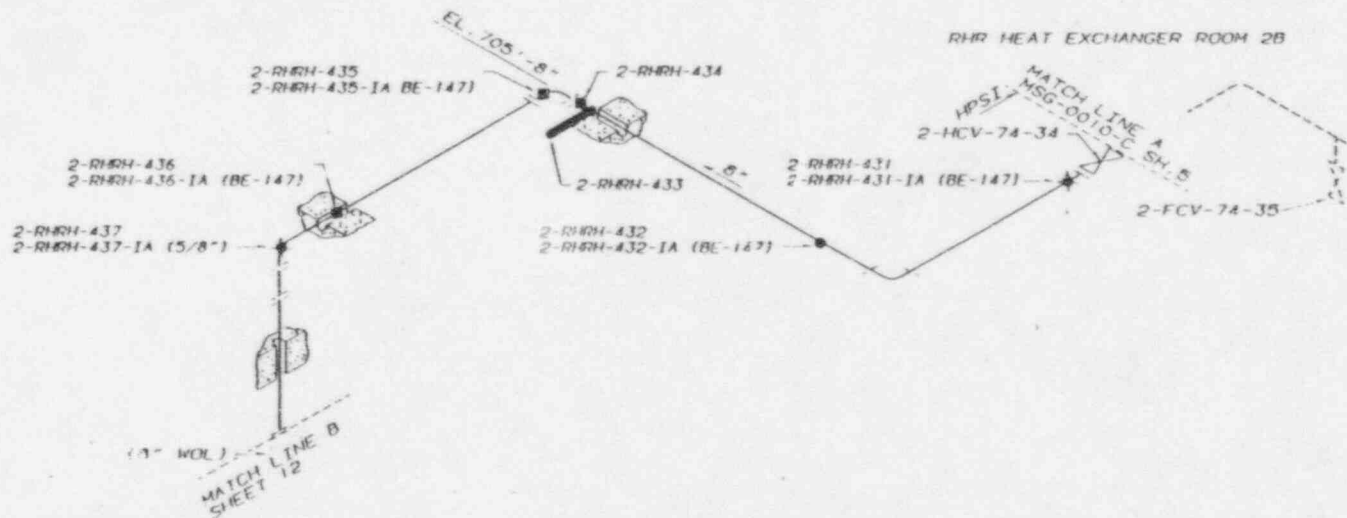
1	REV	182	DATE	2-27-96	
ADD NAME: ELEVATIONS, REF. DNG. CAP LINE & REMOVE					
VALVE 2-42-755 PER FCDT 95-04					
REV	BY	CHECKED	SUBMITTED	DATE	
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVCs)					
DRWN	REV	DATE	12-18-95	SCALE	NOT TO SCALE
CHECKED	JCS	APPROVED	DLW	LOAD MAINTAINED	DRAWING
SUBMITTED	FRS	DATE	12-18-95	SCALE	NOT TO SCALE
ISI-0449-C-35					01


REFERENCE DRAWINGS
47K432-54

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



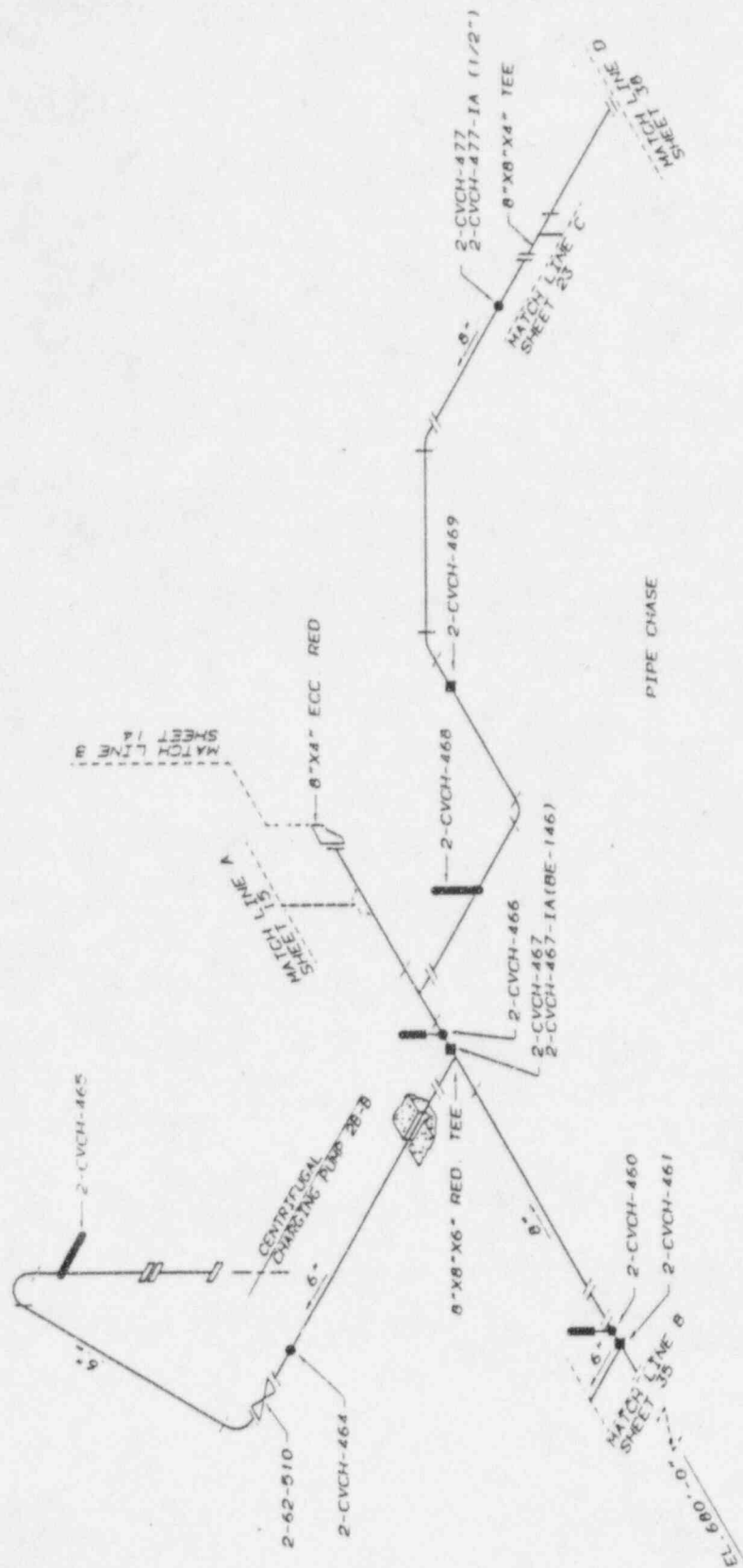
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (RHR)					
DRAWING NO.		DATE 11-16-58		SCALE 1/2" = 1'-0"	
CHECKED BY	APPROVED		EAD MAINTENANCE OPERATIONS		
SUBMITTED			ISI-0449-C-36		00

REFERENCE DRAWINGS
47K406-123

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



REV	BY	DATE	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CVES)					
DRWN BY	DATE	SCALE	NOT TO SCALE		
CHECKED BY	DATE	SCALE	NOT TO SCALE		
SUBMITTED	DATE	SCALE	NOT TO SCALE		
ISI-0449-C-37				100	

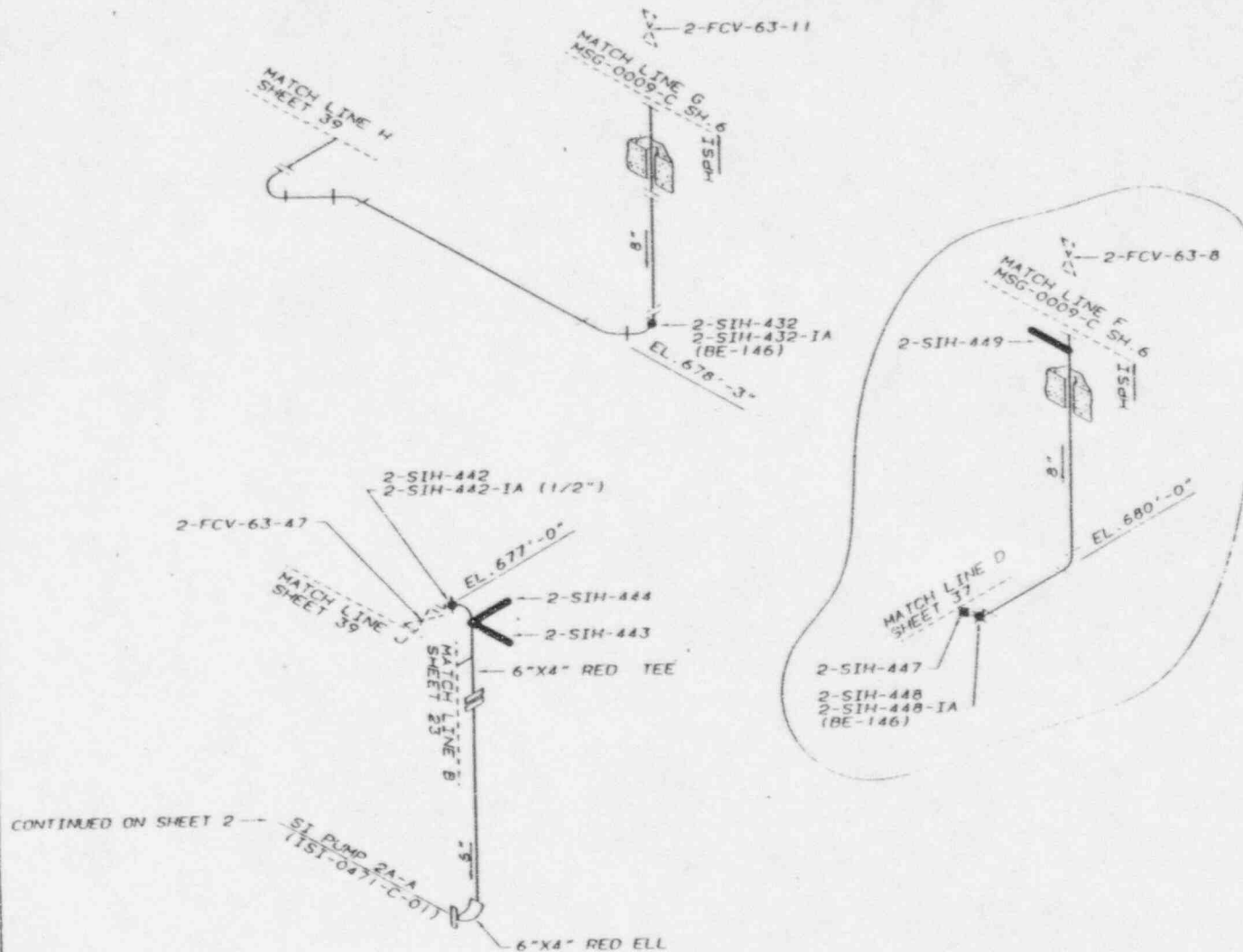
REFERENCE DRAWINGS
47K406-123
47K435-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊠ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

THESE SUPPORTS COUNTED
UNDER THE CVC SYSTEM



CONTINUED ON SHEET 2

REV	BY	CHECKED	DATE	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (SAFETY INJECTION & CVC)					
DRAWN BY	DATE	12-16-85	SCALE	NOT TO SCALE	
CHECKED BY	DATE	1/11/86	APPROVED	W. W. W. W.	
SUBMITTED BY	DATE	1/11/86	APPROVED	W. W. W. W.	
ISI-0449-C-38					00

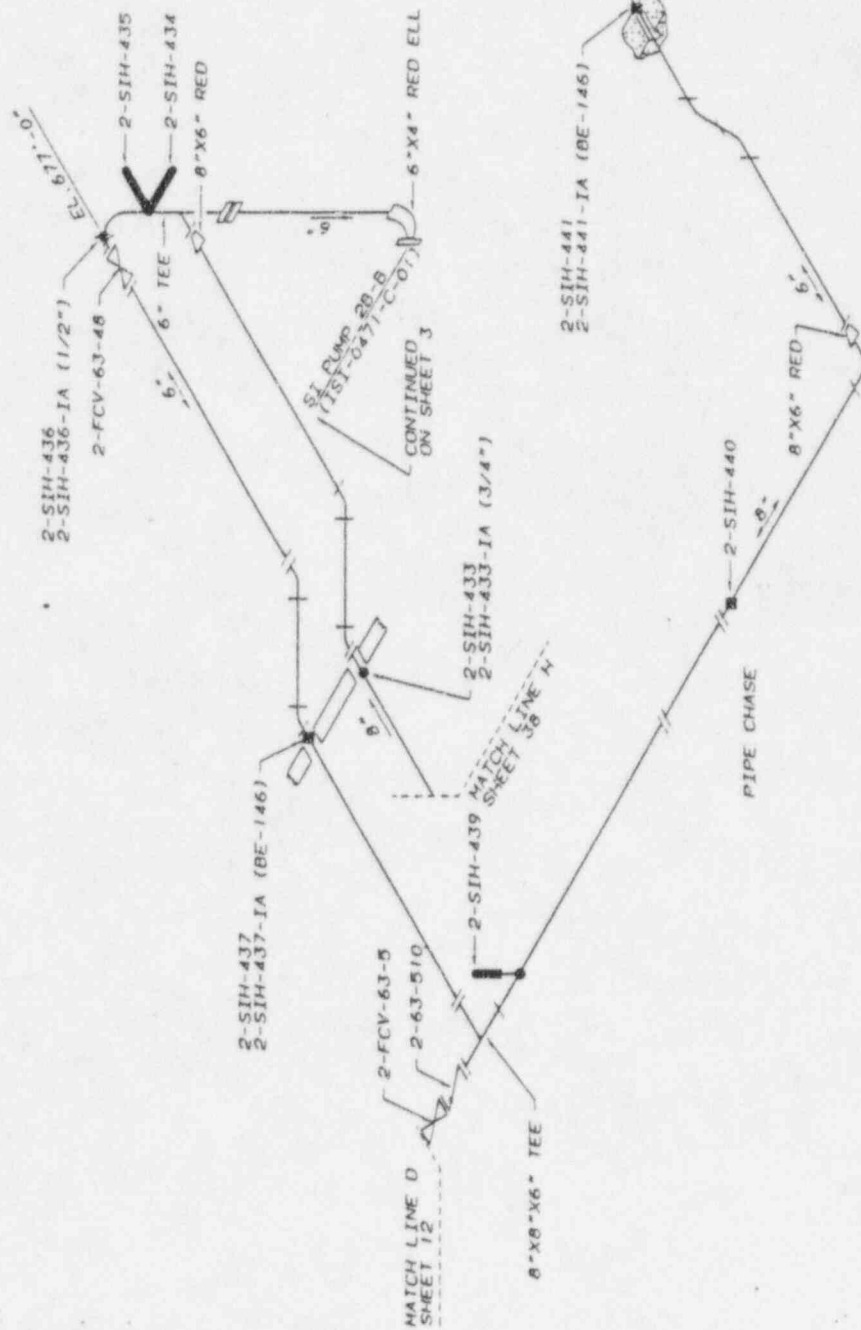
LEGEND

Q

• R.

******* R**

ASME CC-2 (EQUIVALENT)



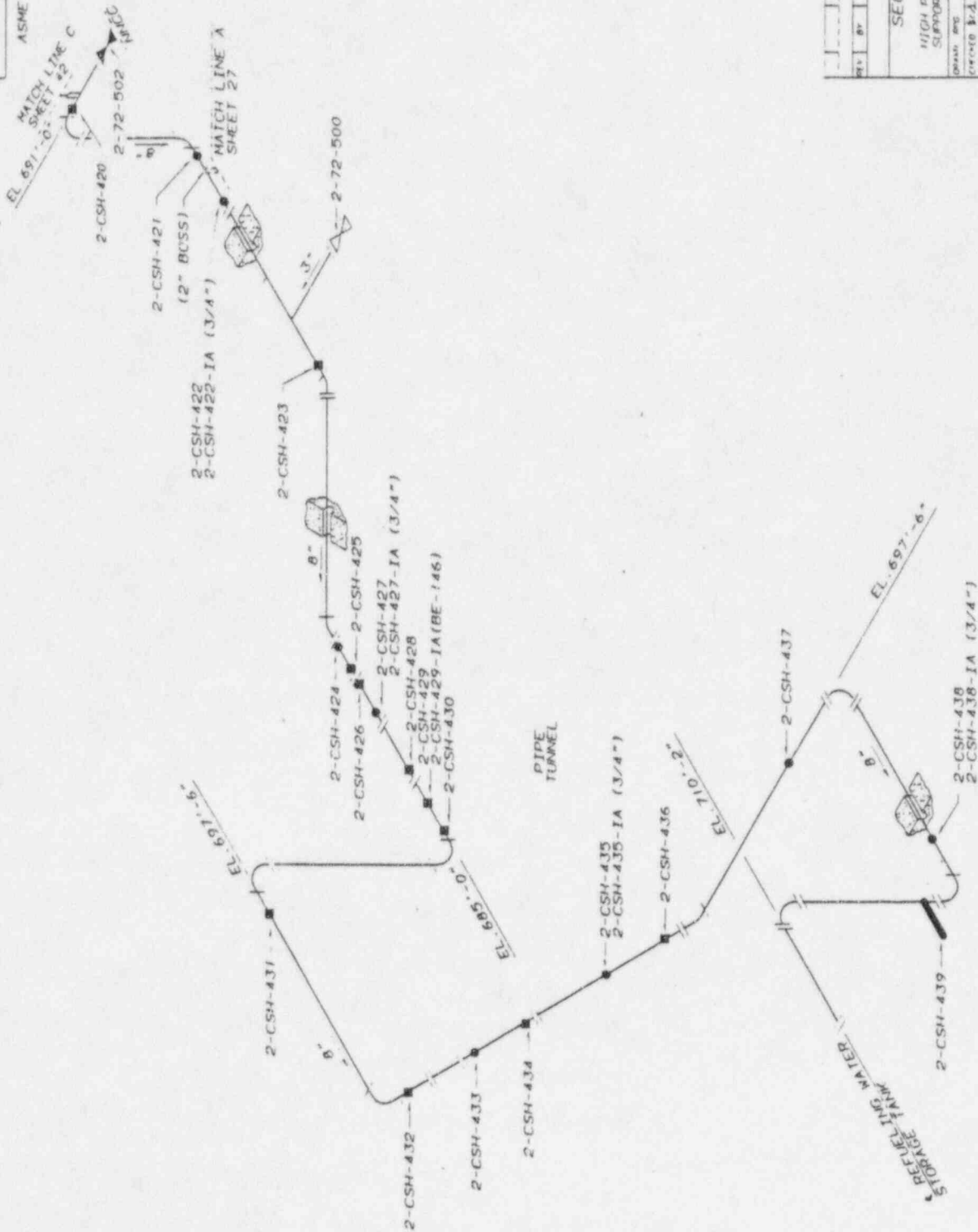
RE	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY SECOYAH NUCLEAR PLANT UNIT 2 HIGH PRESSURE SAFETY INJECTION SYSTEM SUPPORT LOCATIONS (SAFETY INJECTION)					
REVIEWED AND CHECKED BY SUBMITTED BY		DATE 12-14-75 APPROVED <i>[Signature]</i> EST-0440-C-79		SCALE NOT TO SCALE CAP INJECTION DRAINING 00	

REFERENCE DRAWINGS 47K437-51

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



SEQUOYAH NUCLEAR PLANT
UNIT 2

HIGH PRESSURE SAFETY INJECTION SYSTEM
SUPPORT LOCATIONS (CONTINUED FROM SHEET 47K437-50)

DESIGN NO.	DATE	BY	CHKD	APP'D	DATE
47K437-51	11-18-85	JW	JW	JW	11-18-85
REV	BY	CREATED	DATE	APPROVED	DATE
1	JW	11-18-85	JW	JW	11-18-85

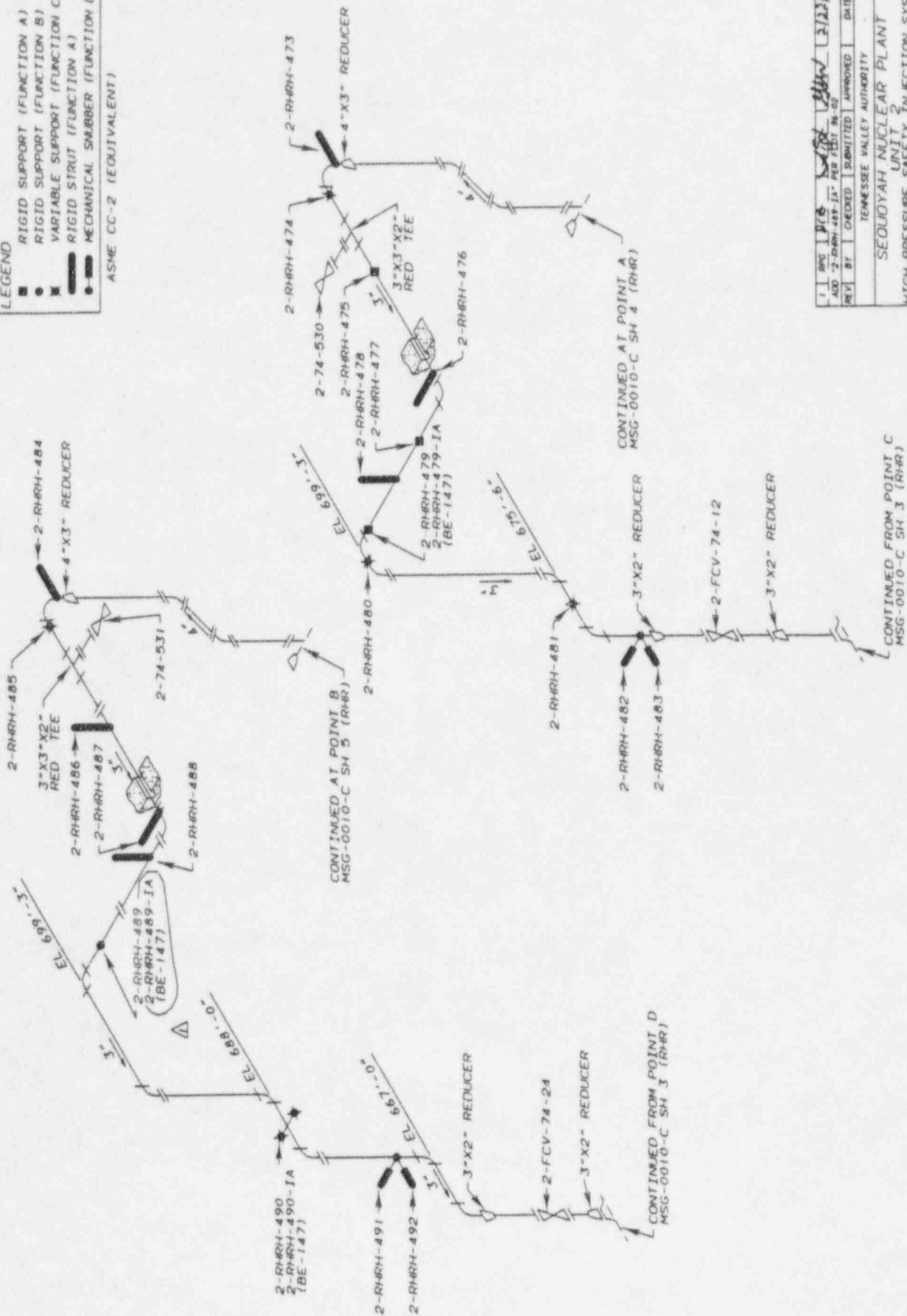
ISI-0449-C-40

REFERENCE DRAWINGS 47K432-56

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ▣ VARIABLE SUPPORT (FUNCTION C)
- ▢ RIGID STRUT (FUNCTION A)
- ▧ MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)



REV	BY	DATE	DESIGNED	APPROVED	DATE
1	WJG	1/18/88	WJG	WJG	2/22/88
2	WJG	1/18/88	WJG	WJG	2/22/88

SEQUOYAH NUCLEAR PLANT
UNIT 2
HIGH PRESSURE SAFETY INJECTION SYSTEM
SUPPORT LOCATIONS (RHR)

DATE 12-18-95	SCALE NOT TO SCALE
APPROVED GUN	CAD MAINTAINED DRAWING REV
CHECKED JTG	
SUBMITTED FRS	ISI-0449-C-41 01

ISI-0449-C-41

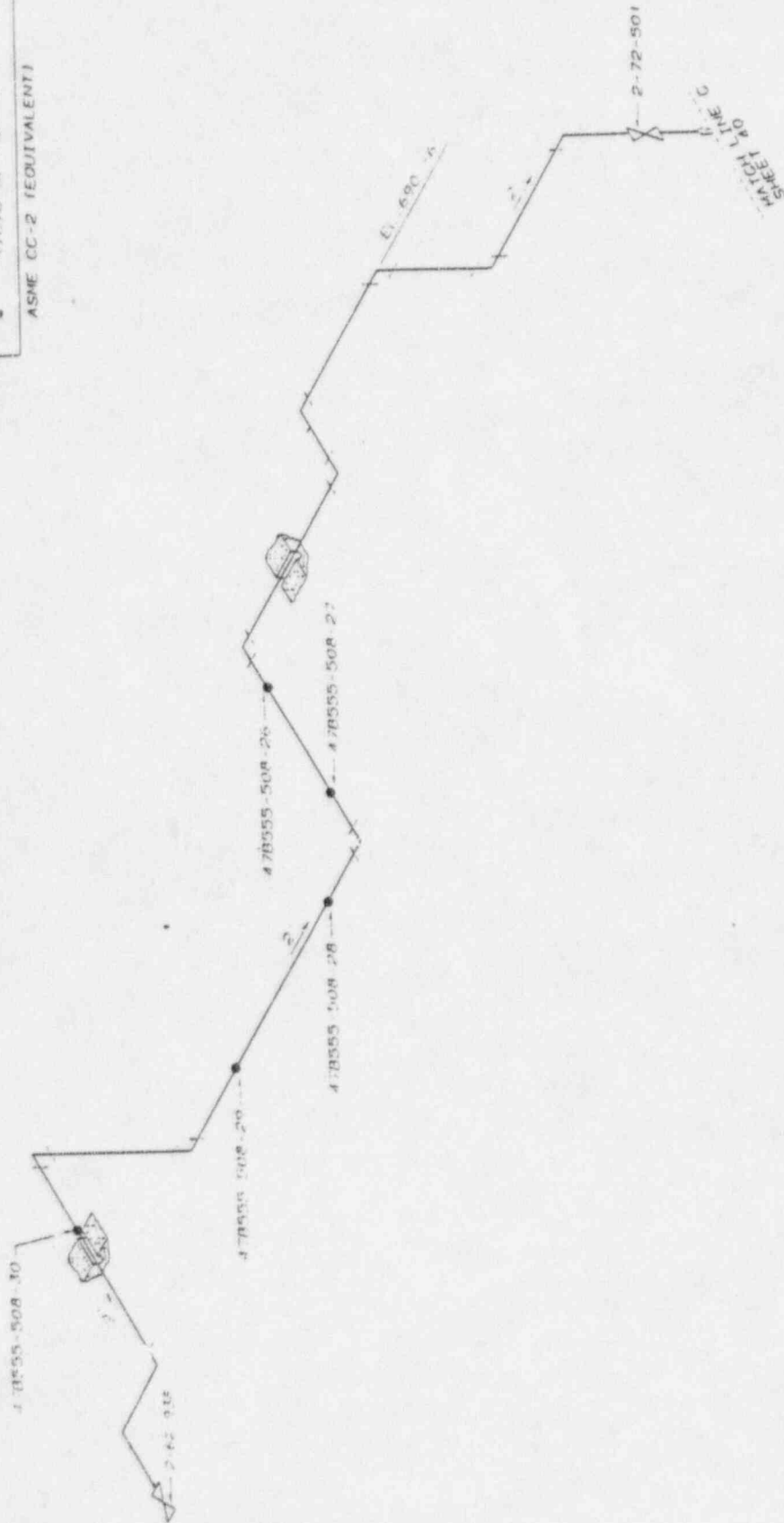
REFERENCE DRAWINGS

2-47855-508-05
1-CVCS-177
47855-10
47855-19
47855-80

LEGEND

5 RIGID SUPPORT (SEE 177-178, 19)

ASME CC-2 (EQUIVALENT)

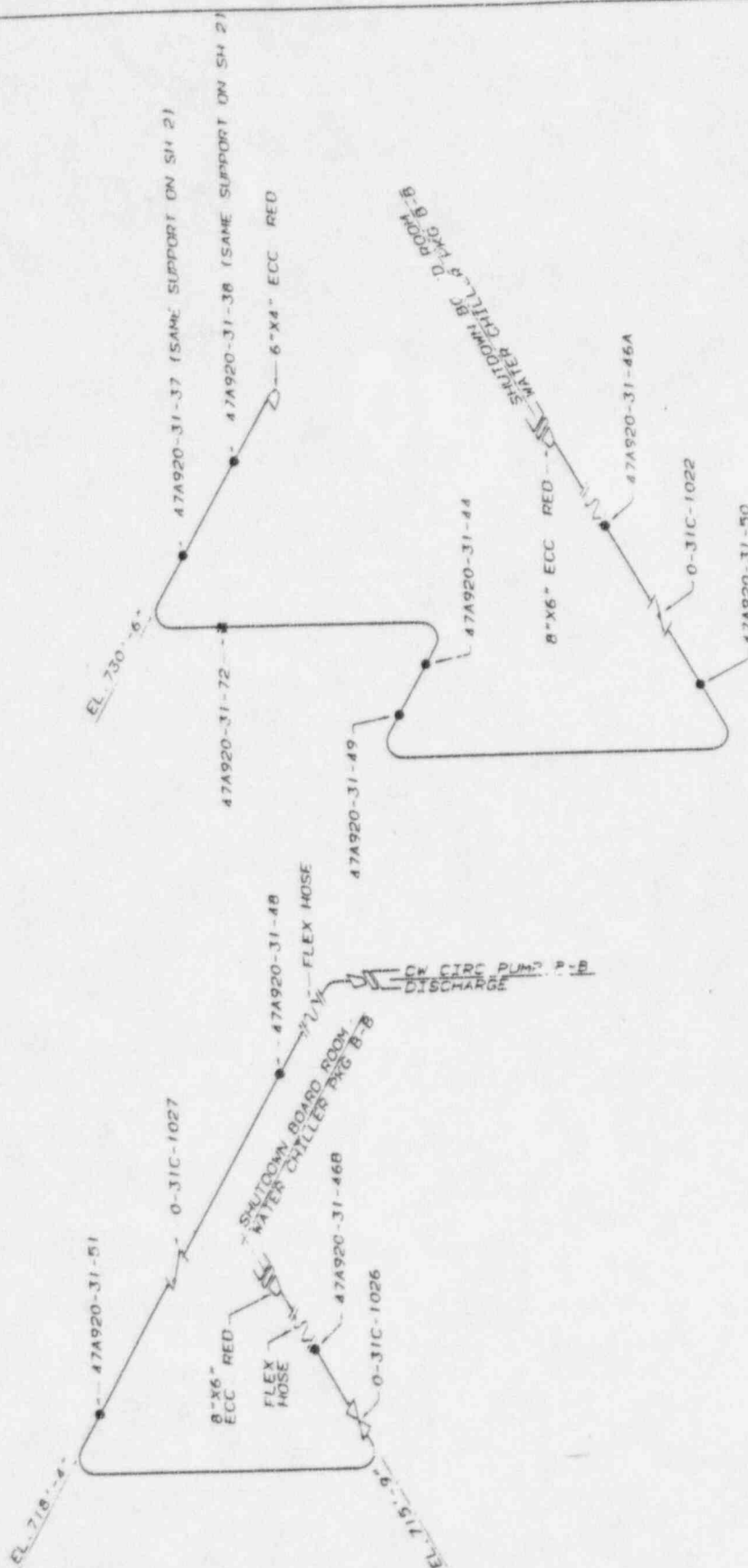


REV	BY	CHANGED	SUPPLEMENT	APPROVED	DATE
1					2-7-80
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
SUPPORT LOCATIONS (CONTAINMENT SYSTEM)					
DESIGNED BY	DR/12/14/83	DATE	10-10-83	SCALE	1:1
CHECKED BY	DR/12/14/83	DATE	10-10-83	SCALE	1:1
SUBMITTED BY	DR/12/14/83	DATE	10-10-83	SCALE	1:1
ISI-0449-C-42					
00					

1-2-47K9⁽⁹⁾-507-01
1-2-47K9⁽⁹⁾-507-03
1-2-47K9⁽⁹⁾-507-04

RIGID SUPPORT (FUNCTION A)
RIGID SUPPORT (FUNCTION B)

ASME CC-3 (EQUIVALENT)



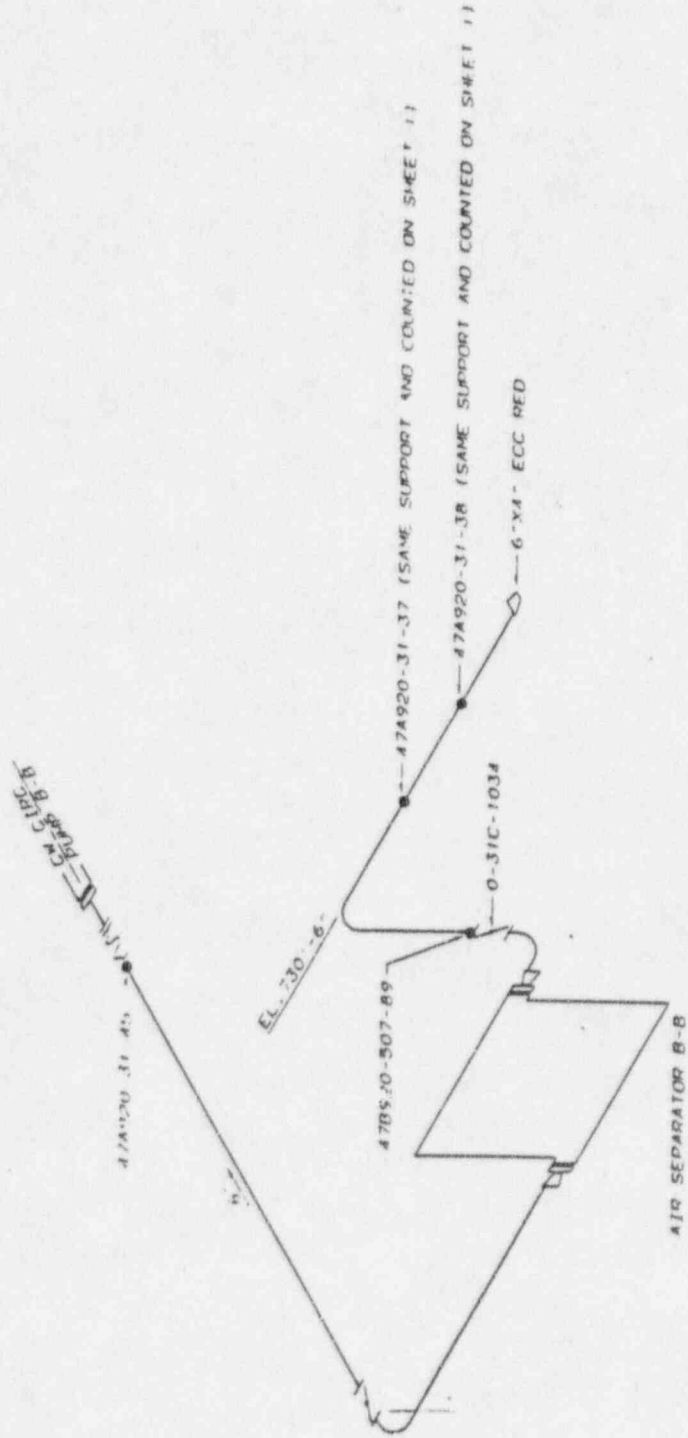
DATE	CHECKED	SUBMITTED	APPROVED
			TEHESSEE VALLEY AUTHORITY
SEOLIOYAH NUCLEAR PLANT UNIT 2 AIR CONDITIONING CHILLED WATER S-S SUPPORT LOCATIONS			
DRAWN BY	DESIGNED BY	DATE	SCALE
REVIEWED BY	APPROVED BY	JUL 78	AS SHOWN
PROJECT NO.	ISSUE NO.	151-0451-C-6	00

REFERENCE DRAWINGS
1.2-47K920-507-02
1.2-47K920-507-08

LEGEND

- RIGID SUPPORT (FUNCTION B)

ASME CC-3 (EQUIVALENT)



REV	BY	DATE	REVISION	APPROVED	DATE
1					
Tennessee Valley Authority					
Sequoyah Nuclear Plant					
Unit 2					
Air Conditioning Chilled Water System					
Support Locations					
DESIGN	ENG	DATE	12-18-89	SCALE	1/8" = 1'-0"
CHECKED	BY	DATE	1/11/90	SCALE	1/8" = 1'-0"
SUBMITTED	BY	DATE	1/11/90	SCALE	1/8" = 1'-0"
151-0451-C-02					
100					

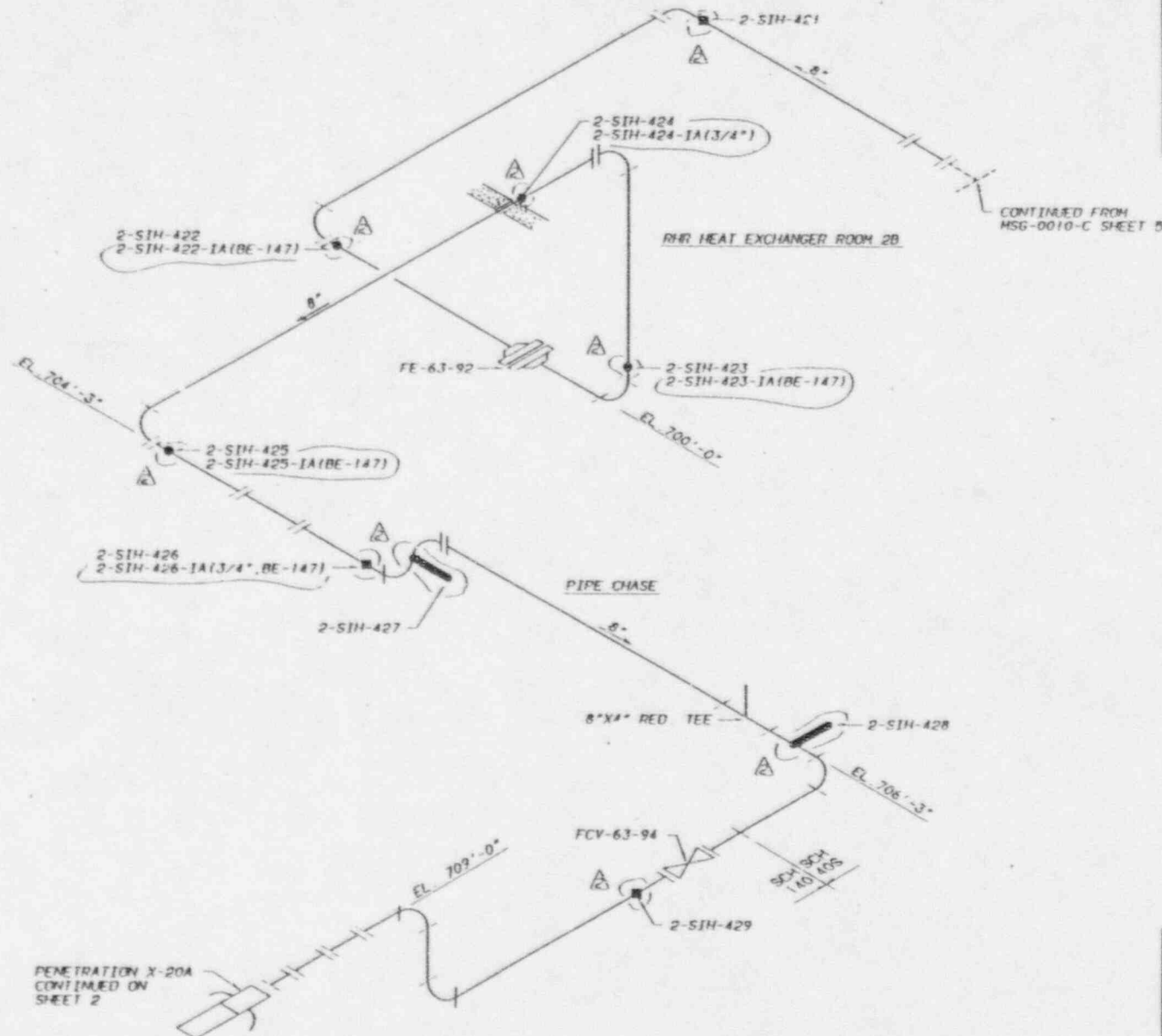
REFERENCE DRAWINGS

47K435-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



PENETRATION X-20A
CONTINUED ON
SHEET 2

2	REV	PC	12/16/95
ADD SUPPORT 1A 5. 11P 8 FUNCTION REMOVE PIPE STEPS REMOVE REFERENCE DRAWINGS & MAKE CAD			
1	JAL	REV	9-12-94
CORRECT FOR PRISIN			
REV	BY	CHECKED	SUBMITTED
			APPROVED
DATE			
TENNESSEE VALLEY AUTHORITY			
SECOYAH NUCLEAR PLANT			
UNIT 2			
SAFETY INJECTION SYSTEM			
SUPPORT LOCATIONS			
DRWN	REV	DATE	SCALE
CHECKED	EDC	APPROVED	OLB
SUBMITTED	EDC	MSG-0009-C-01	

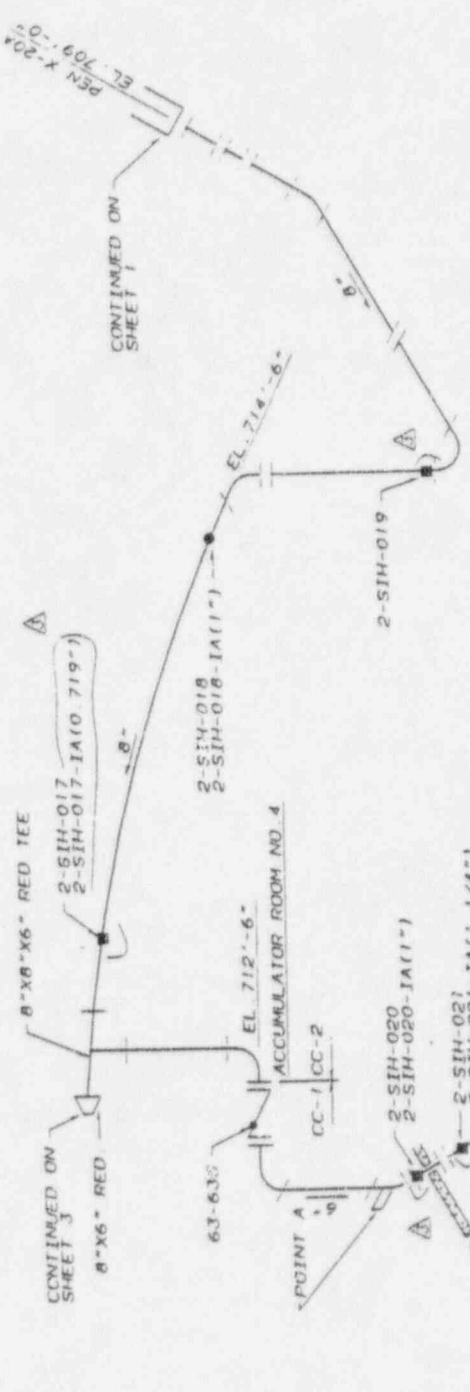
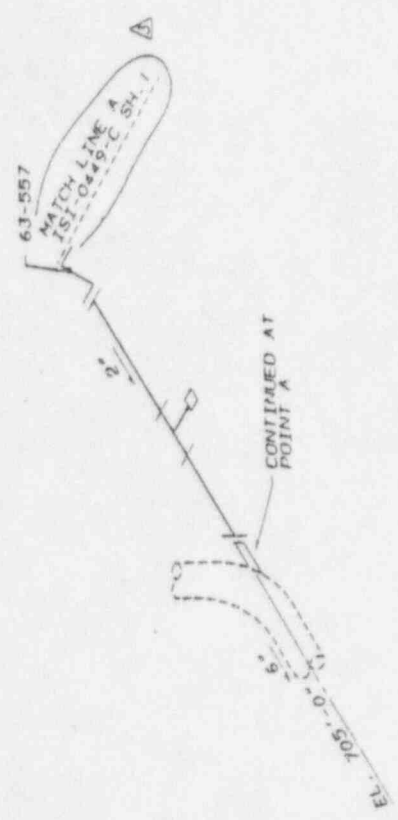
REFERENCE DRAWINGS

0600102-09-01

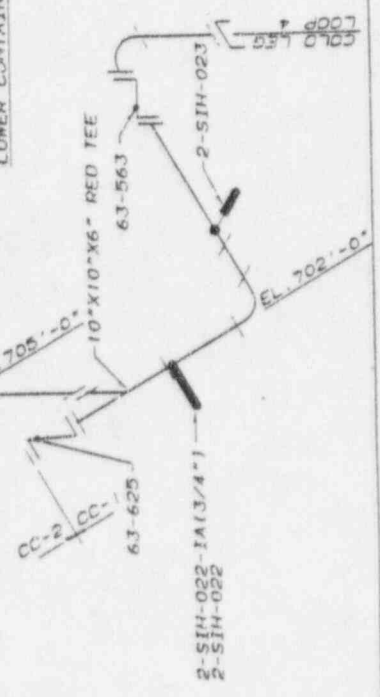
LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SMOTHER (FUNCTION D)
- RIGID STRUT (FUNCTION A)

ASME CC-1 (EQUIVALENT)
ASME CC-2 (EQUIVALENT)



REACTOR BUILDING
LOWER CONTAINMENT



1	ENG	S.C.A.	12-16-85	12-16-85
ADD MATCH LINE A, ADD JA TO 2-SIH-017 AND SUPPORT FUNCTION AND REMOVE REFERENCE DRAWINGS				
2	ENG	P.B.	01-08-86	01-08-86
WENT 2-SIH-020, ADD SUPPORT TIE, REMOVE PIPELINE AND THE 1200, 1116, REMOVE PIPE DETAIL, AND MAKE CC				
3	LAO	NOA	01-08-86	01-08-86
CORRECT FOR PRESEN				
BY	BT	CHECKED	SUBMITTED	APPROVED
DATE 2-1-87				
SCALE NOT TO SCALE				
DRAWN BY				
CHECKED FOR				
SUBMITTED FOR				
MSG-0009-C-02				

SENOUYAH NUCLEAR PLANT
UNIT 2
SAFETY INJECTION SYSTEM
SUPPORT LOCATIONS

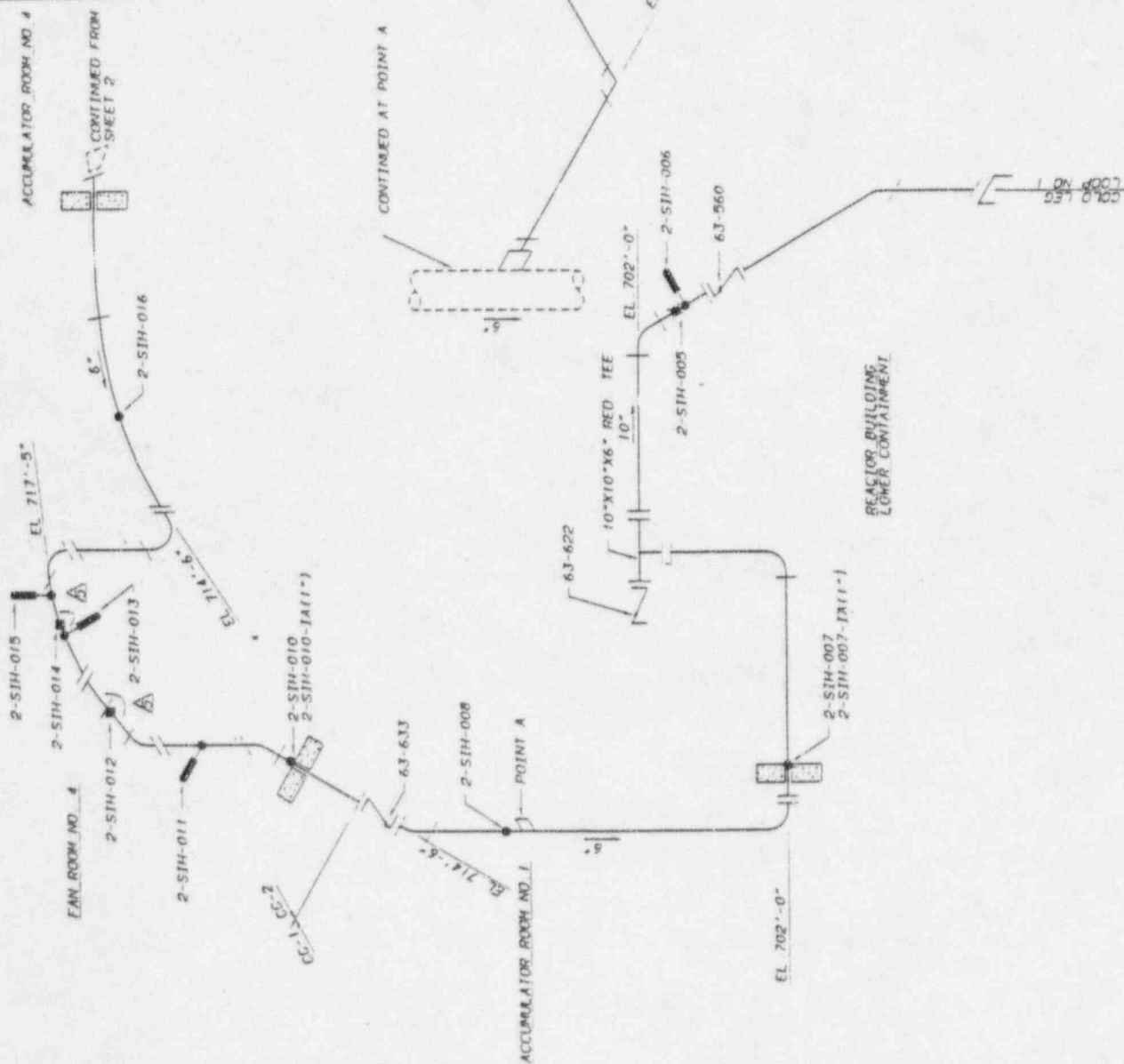
0600102-09-01	01-08-86	01-08-86	01-08-86	01-08-86
0600102-09-01	01-08-86	01-08-86	01-08-86	01-08-86
0600102-09-01	01-08-86	01-08-86	01-08-86	01-08-86
0600102-09-01	01-08-86	01-08-86	01-08-86	01-08-86

0600102-09-01

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SWINGER (FUNCTION D)

ASME CC-1 (EQUIVALENT)
ASME CC-2 (EQUIVALENT)



DATE	TIME	NAME	ROOM	REMARKS
10/10/19	10:00	Mr. J. W. Smith	101	Admission
10/10/19	10:05	Mr. J. W. Smith	101	Admission
10/10/19	10:10	Mr. J. W. Smith	101	Admission
10/10/19	10:15	Mr. J. W. Smith	101	Admission
10/10/19	10:20	Mr. J. W. Smith	101	Admission
10/10/19	10:25	Mr. J. W. Smith	101	Admission
10/10/19	10:30	Mr. J. W. Smith	101	Admission
10/10/19	10:35	Mr. J. W. Smith	101	Admission
10/10/19	10:40	Mr. J. W. Smith	101	Admission
10/10/19	10:45	Mr. J. W. Smith	101	Admission
10/10/19	10:50	Mr. J. W. Smith	101	Admission
10/10/19	10:55	Mr. J. W. Smith	101	Admission
10/10/19	11:00	Mr. J. W. Smith	101	Admission
10/10/19	11:05	Mr. J. W. Smith	101	Admission
10/10/19	11:10	Mr. J. W. Smith	101	Admission
10/10/19	11:15	Mr. J. W. Smith	101	Admission
10/10/19	11:20	Mr. J. W. Smith	101	Admission
10/10/19	11:25	Mr. J. W. Smith	101	Admission
10/10/19	11:30	Mr. J. W. Smith	101	Admission
10/10/19	11:35	Mr. J. W. Smith	101	Admission
10/10/19	11:40	Mr. J. W. Smith	101	Admission
10/10/19	11:45	Mr. J. W. Smith	101	Admission
10/10/19	11:50	Mr. J. W. Smith	101	Admission
10/10/19	11:55	Mr. J. W. Smith	101	Admission
10/10/19	12:00	Mr. J. W. Smith	101	Admission

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT
UNIT 2

UNIT 2
SAFETY 1: FIVE-STAR SYSTEM

5. *Staphylococcus aureus*

[illegible]

Needle (10) Pins (6)	875	0.000000
Needle (10) Pins (6)	875	0.000000

0000000000	MSG	2009-C-03	0
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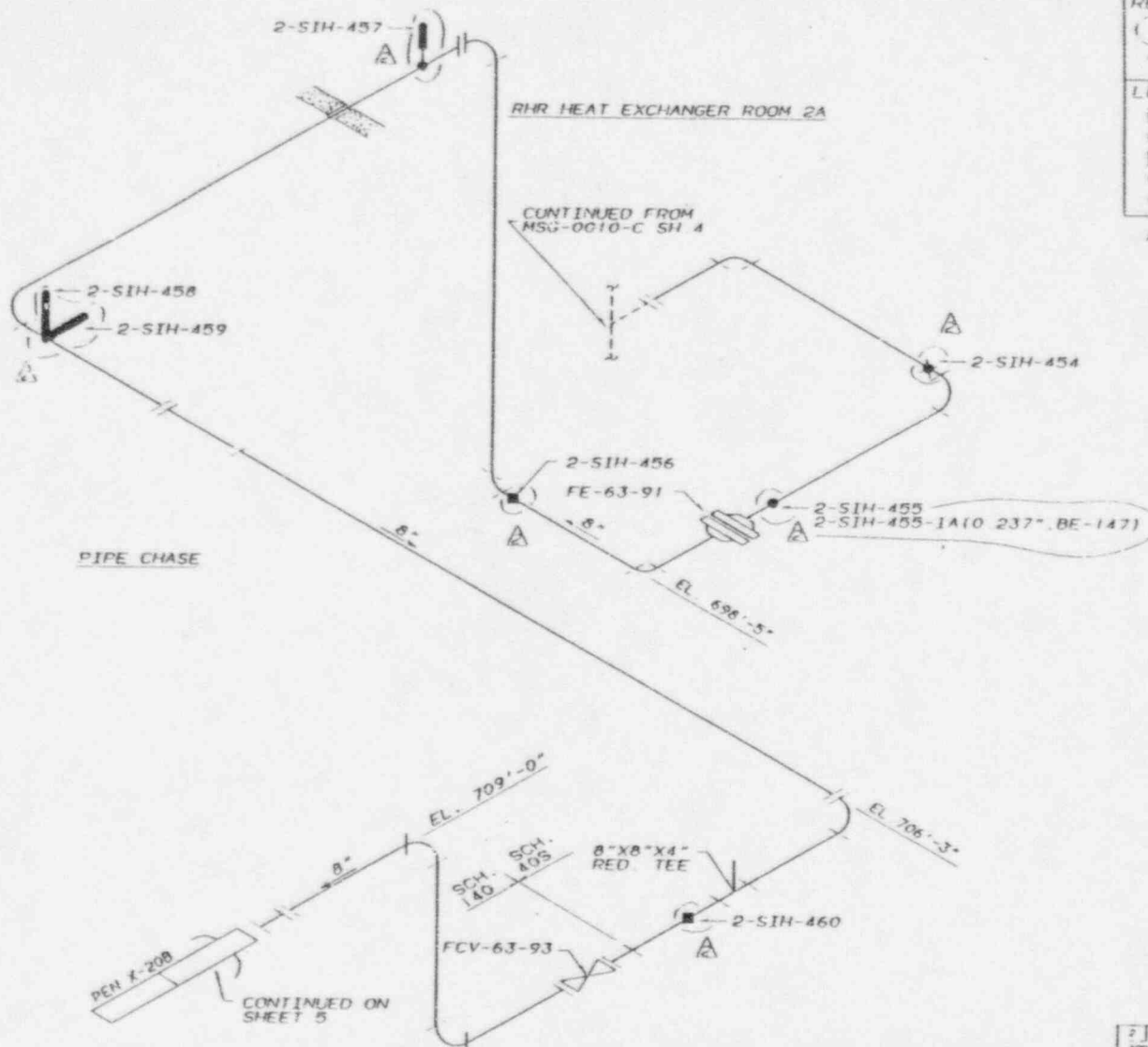
REFERENCE DRAWINGS

47K406-124

LEGEND

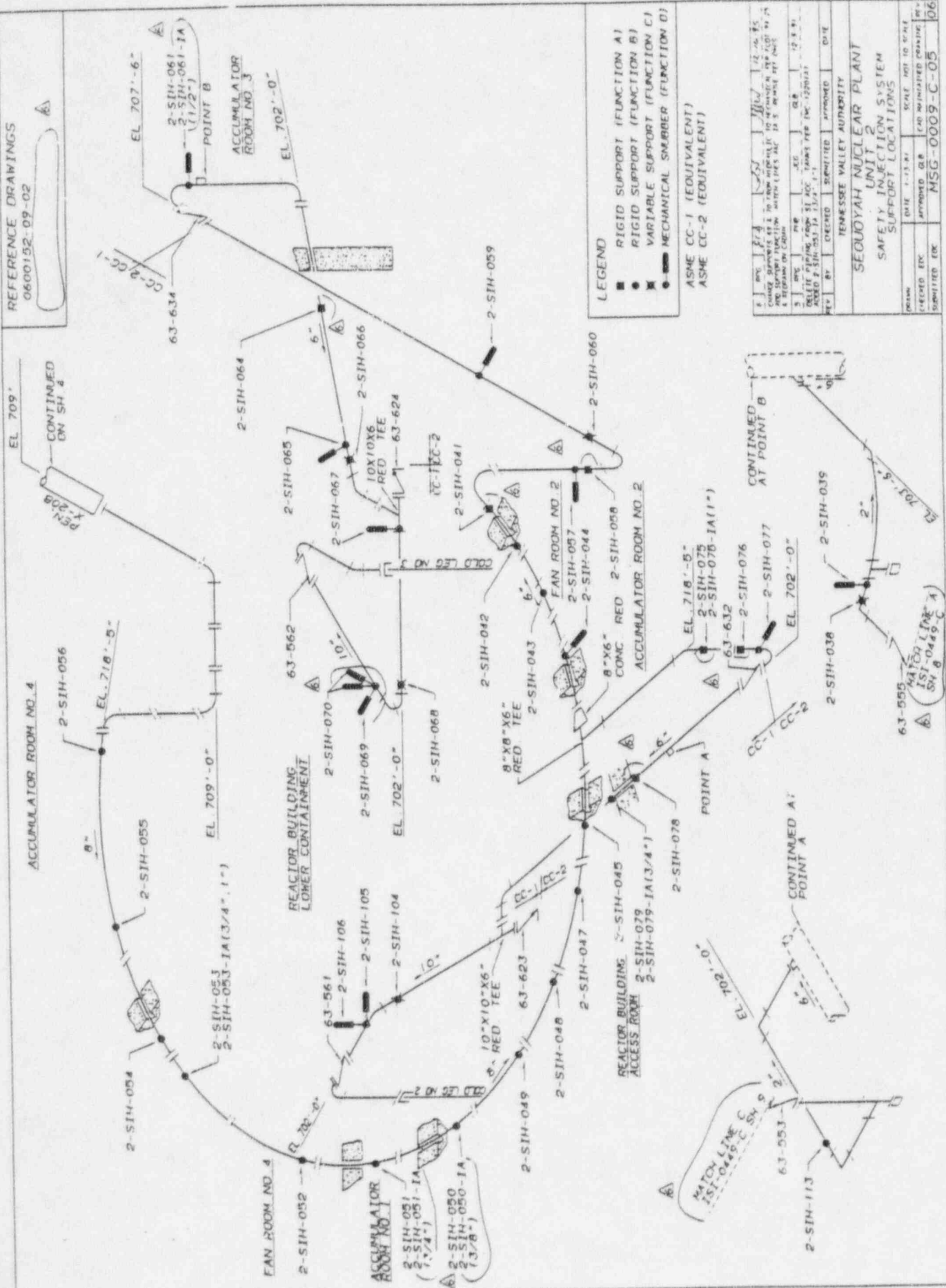
- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



2	MSG	01-5	12-16-95
ADD SUPPORT 1A TYPE & FUNCTION REMOVE PIPE STEPS & HOLE CAP			
1	LAD	HR	01-12-95
CORRECT FOR PRESEN			
REV	BY	CHECKED	SUBMITTED
APPROVED			
DATE			
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 2			
SAFETY INJECTION SYSTEM			
SUPPORT LOCATIONS			
DRAWN	REV	DATE	SCALE
CHECKED	EDC	APPROVED	QLP
SUBMITTED	MSG-0009-C-04		02

REFERENCE DRAWINGS
0600152-09-02



LEGEND
 ■ RIGID SUPPORT (FUNCTION A)
 ● RIGID SUPPORT (FUNCTION B)
 ○ VARIABLE SUPPORT (FUNCTION C)
 ○ MECHANICAL SNUBBER (FUNCTION D)
 ASME CC-1 (EQUIVALENT)
 ASME CC-2 (EQUIVALENT)

REV	BY	CHKD	DATE	DESCRIPTION
1	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
2	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
3	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
4	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
5	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
6	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
7	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
8	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
9	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
10	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
11	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
12	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
13	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
14	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
15	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
16	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
17	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION
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100	WJ	WJ	12/10/81	ISSUED FOR CONSTRUCTION

SEQUOYAH NUCLEAR PLANT
 UNIT 2
 SAFETY INJECTION SYSTEM
 SUPPORT LOCATIONS

DESIGN	DATE	SCALE	NOT TO SCALE
CHECKED BY	APPROVED BY	END MANIPULATED	REV
SUBMITTED BY	MSG-0009-C-05	06	

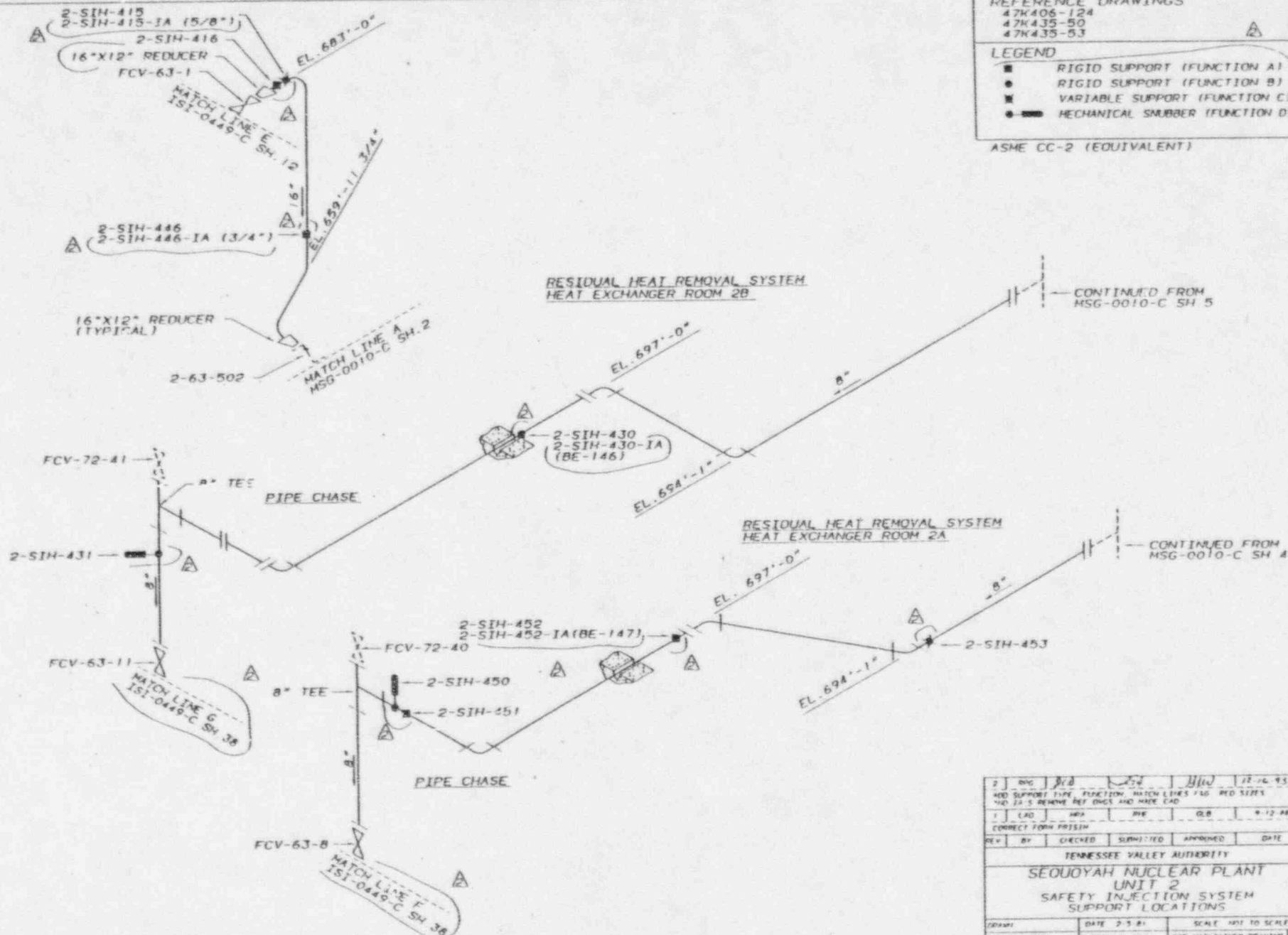
REFERENCE DRAWINGS

47K406-124
47K435-50
47K435-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)

ASME CC-2 (EQUIVALENT)



2	ENG	12-16-95
ADD SUPPORT TYPE, FUNCTION, MATCH LINES AND RED SIZE		
AND 1A-5 REMOVE REF DNGS AND MAKE LAD		
1	LAD	9-12-95
CORRECT FORM PRTS		
REV	BY	CHECKED
SUBMITTED		
APPROVED		
DATE		
TENNESSEE VALLEY AUTHORITY		
SEQUOYAH NUCLEAR PLANT		
UNIT 2		
SAFETY INJECTION SYSTEM		
SUPPORT LOCATIONS		
DESIGN	DATE 2-5-91	SCALE NOT TO SCALE
CHECKED EDC	APPROVED OLB	CAD MAINTAINED DRAWING REV
SUBMITTED EDC	MSG-0009-C-06 02	

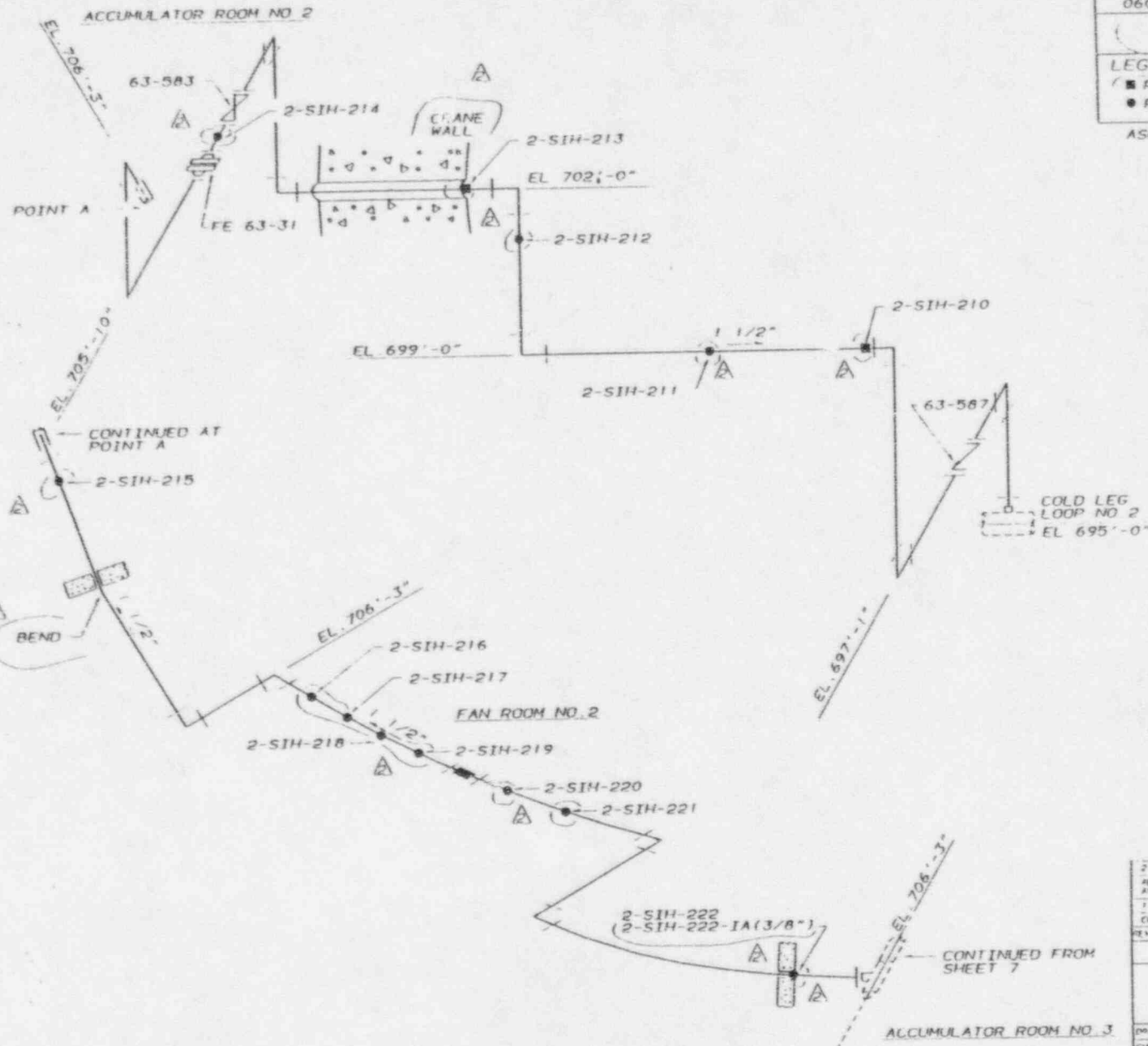
REFERENCE DRAWINGS

0600102-09-05

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)

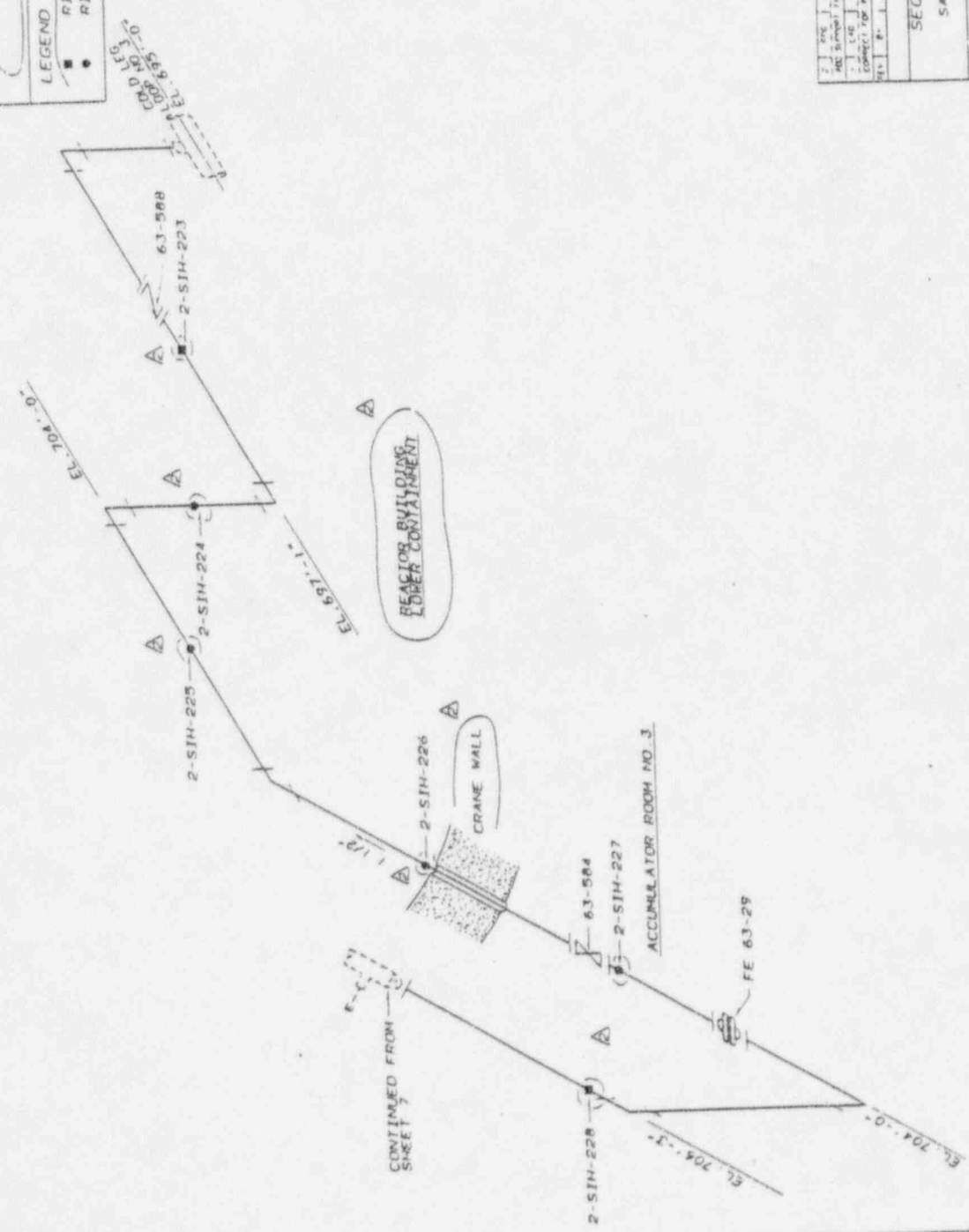
ASME CC-1 (EQUIVALENT)



2	ENC	BY: J	DATE: 12-16-95
ADD SUPPORT TYPES, FUNCTION, SIZE, WEIGHT, RWT, ENDS, PIPE SCHEDULES, AND MAKE CAD			
1	LAD	WHA	QLB
CORRECT FOR PROSIN			
REV	BY	CHECKED	SUBMITTED
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 2			
SAFETY INJECTION SYSTEM			
SUPPORT LOCATIONS			
DRAWN: REV	DATE: 2-5-91	SCALE: 1/2" = 10' SCALE	
CHECKED: EDC	APPROVED: QLB	CAD: UNREGISTERED DRAFTER	REV:
SUBMITTED: EDC	MSG-0009-C-09 02		

REFERENCE DRAWINGS
 0800102-09-06

LEGEND
 RIGID SUPPORT (FUNCTION A)
 RIGID SUPPORT (FUNCTION B)
 ASME CC-1 (EQUIVALENT)



DESIGN	DATE	BY	CHKD	APP'D	SCALE	NO. OF SHEETS
0800102-09-06	10/1/73	J. H. H.	J. H. H.	J. H. H.	1" = 10'	10
REV	DATE	BY	CHKD	APP'D	REASON	
1	10/1/73	J. H. H.	J. H. H.	J. H. H.	INITIAL DESIGN	
2	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
3	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
4	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
5	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
6	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
7	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
8	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
9	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	
10	10/1/73	J. H. H.	J. H. H.	J. H. H.	REVISION	

TECHNICAL AUTHORITY
 SEQUOIA NUCLEAR PLANT
 UNIT 2
 SAFETY INJECTION SYSTEM
 SUPPORT LOCATIONS
 SCALE 1" = 10'
 NO. OF SHEETS 10
 SHEET NO. 10

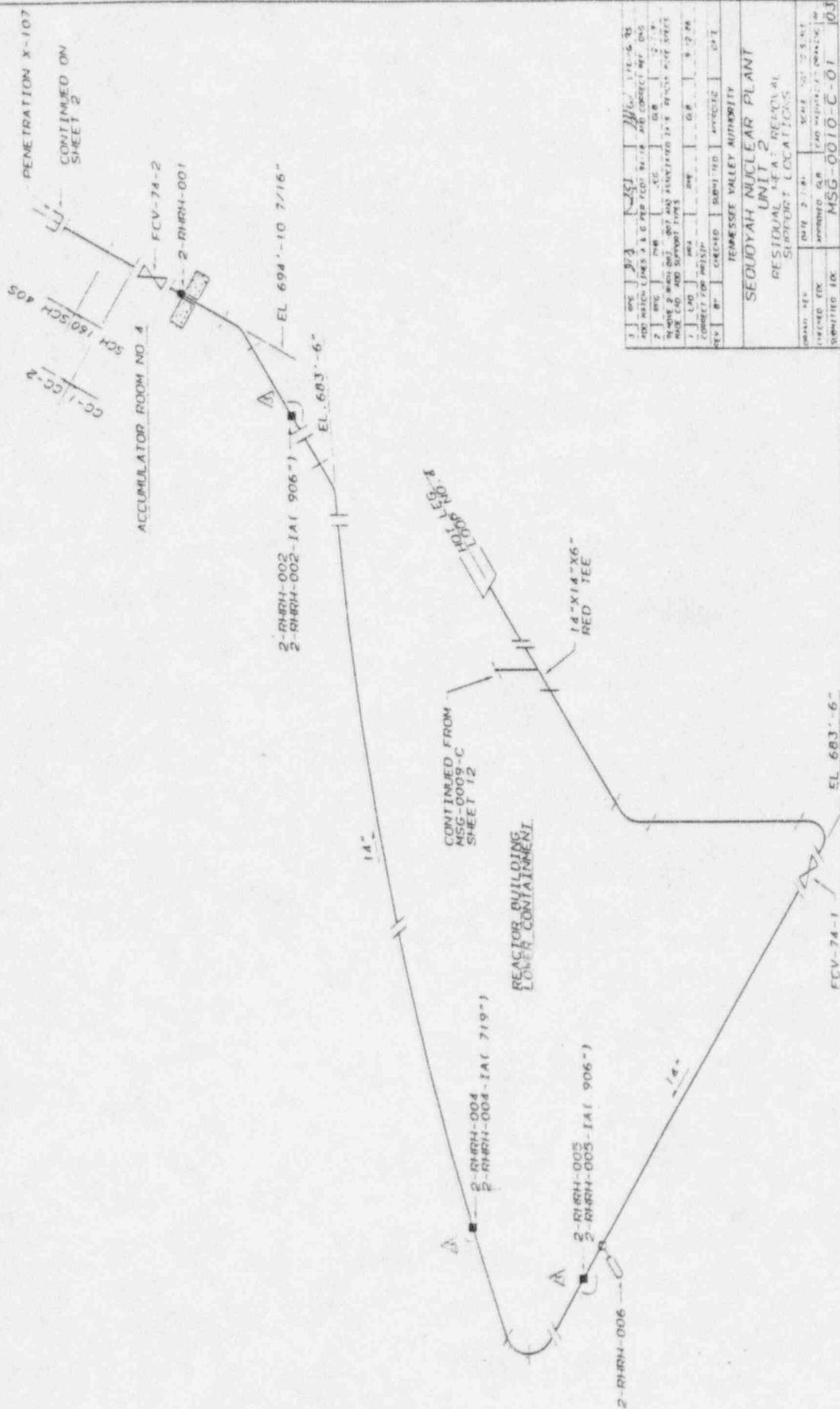
0800102-09-06
 10/1/73
 J. H. H.
 J. H. H.
 J. H. H.
 1" = 10'
 10

47K432.57

WIGID SUPPORT

O-☐ MECHANICAL SMURBER (FUNCTION)

ASME	CC-1	(EQUIVALENT)
ASME <td>CC-2 <td>(EQUIVALENT)</td> </td>	CC-2 <td>(EQUIVALENT)</td>	(EQUIVALENT)

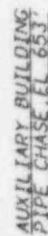
[illegible]

LEGEND

LEGEND

- ☒ RIGID SUPPORT (FUNCTION A)
- ☒ VARIABLE SUPPORT (FUNCTION C)
- ☒ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

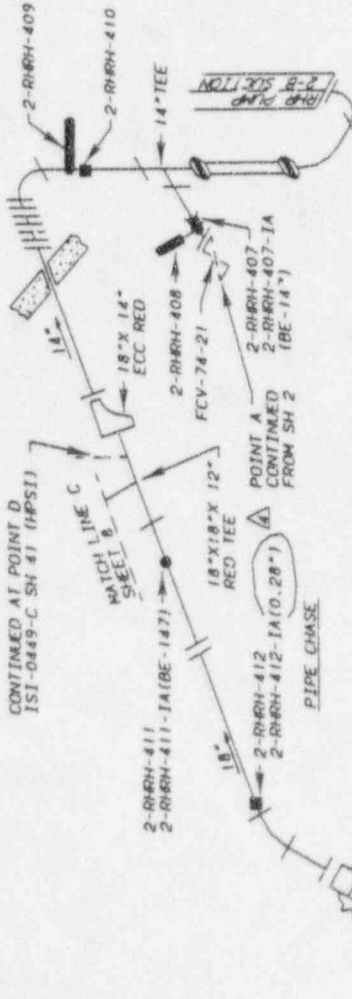


3	3	HW	8.0	Wet of	2/23/86
ADD 1/4 SIZE PER FCDI 84-00					
2	HW	ACC	FRS	GLW	12-18-85
ADD SUPPORT TYPES, FUNCTION, 1A'S, REMOVE REF DMCS PIPE					
1	HW	MADE CAD	RHE	GLB	9-12-86
SPECS & SUPPORT DATA					
L 1 LAD 1 RHE					
CORRECT FOR IN/SLIM					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
RESIDUAL HEAT REMOVAL SYSTEM					
SUPPORT LAYOUTS					
PROGRAM	REV	DATE	2-7-81	SCALE	NOT TO SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINING	DRAWING
UNLIMITED	EDC	MSSG	0010-C-0	0	0

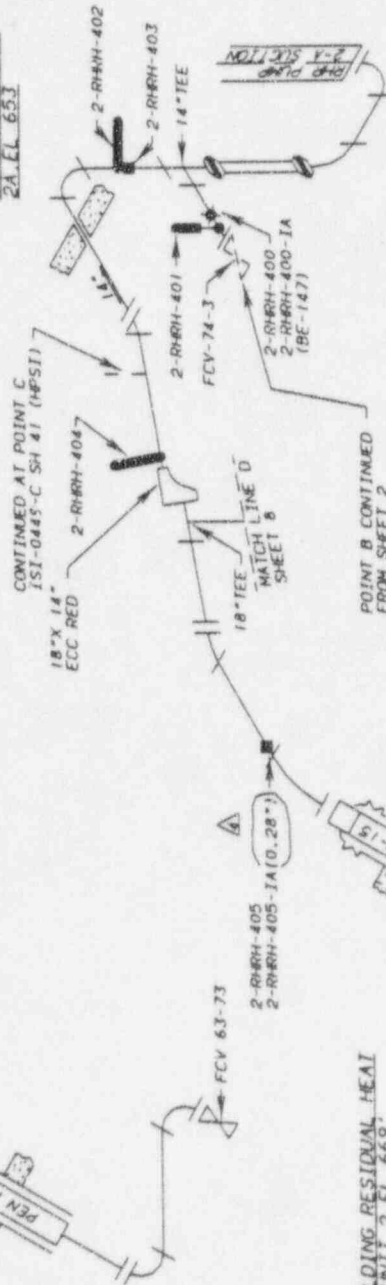
47X435-51

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)
- ◊ RIGID STRUT (FUNCTION A)

RHR PUMP ROOM
2B, EL. 653.

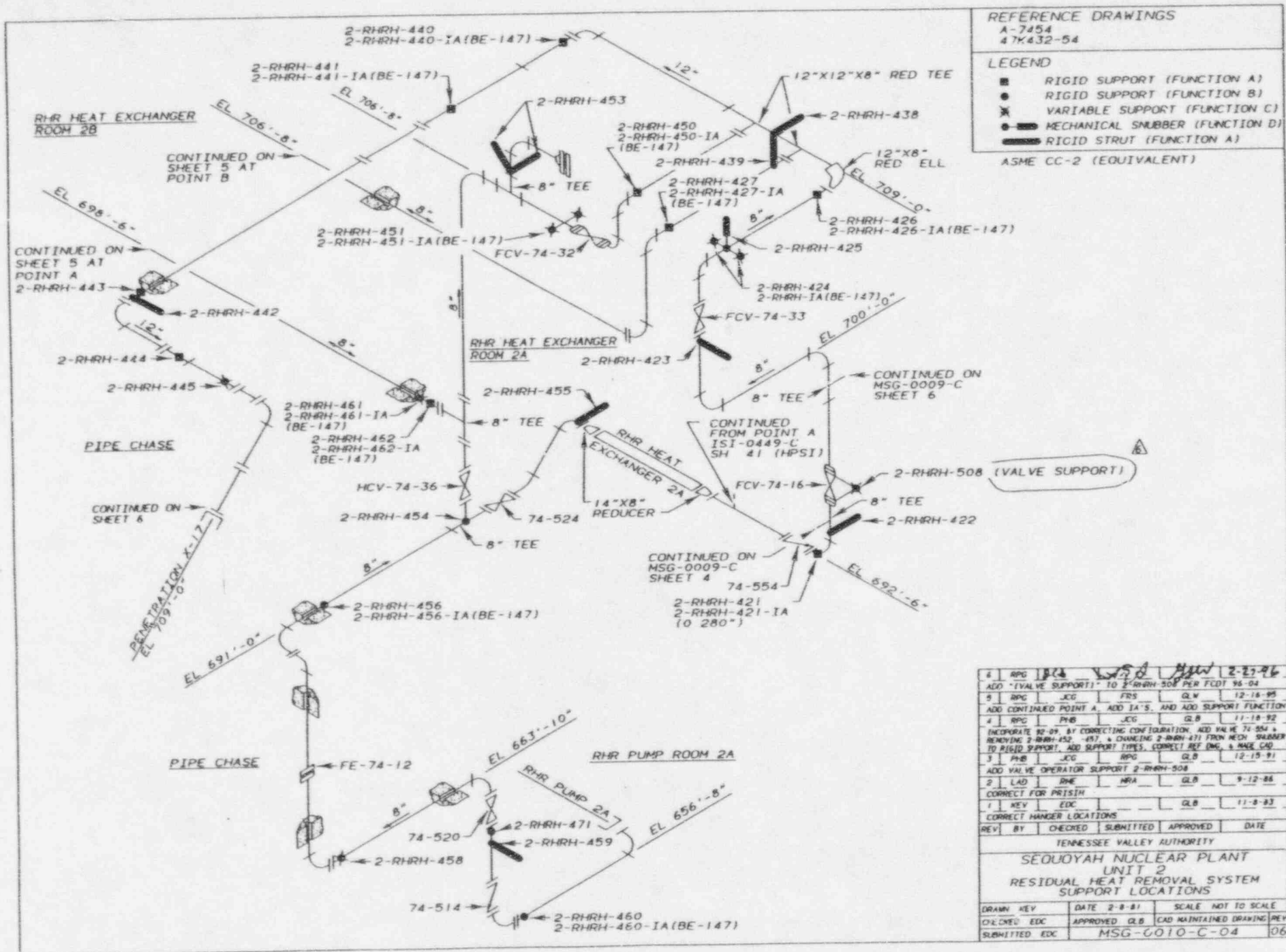


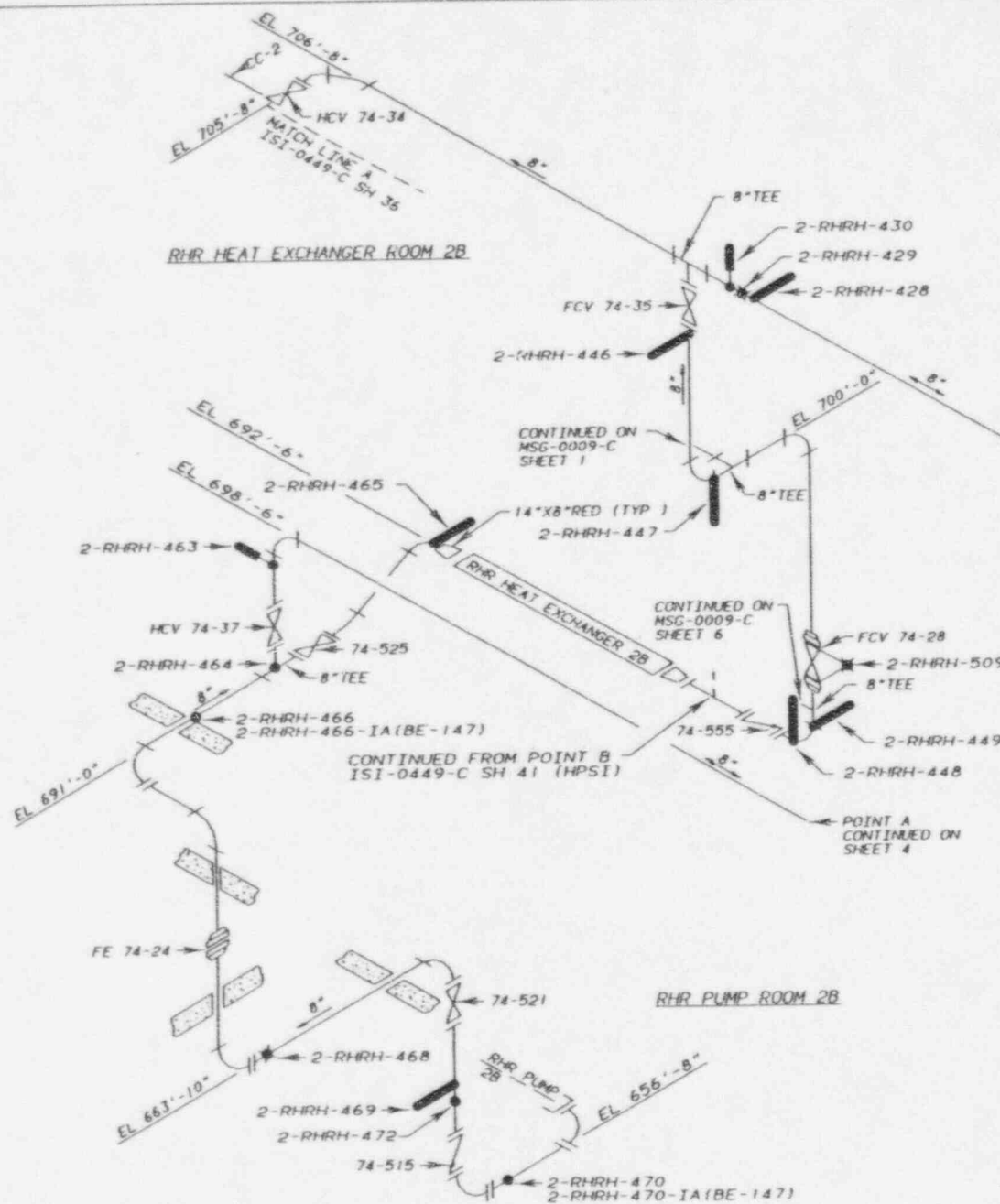
RHR PUMP ROOM
2A.EL 653



AUXILIARY BUILDING RESIDUAL HEAT
REMOVAL SUMP UNIT 2. EL 669

[illegible]





REFERENCE DRAWINGS

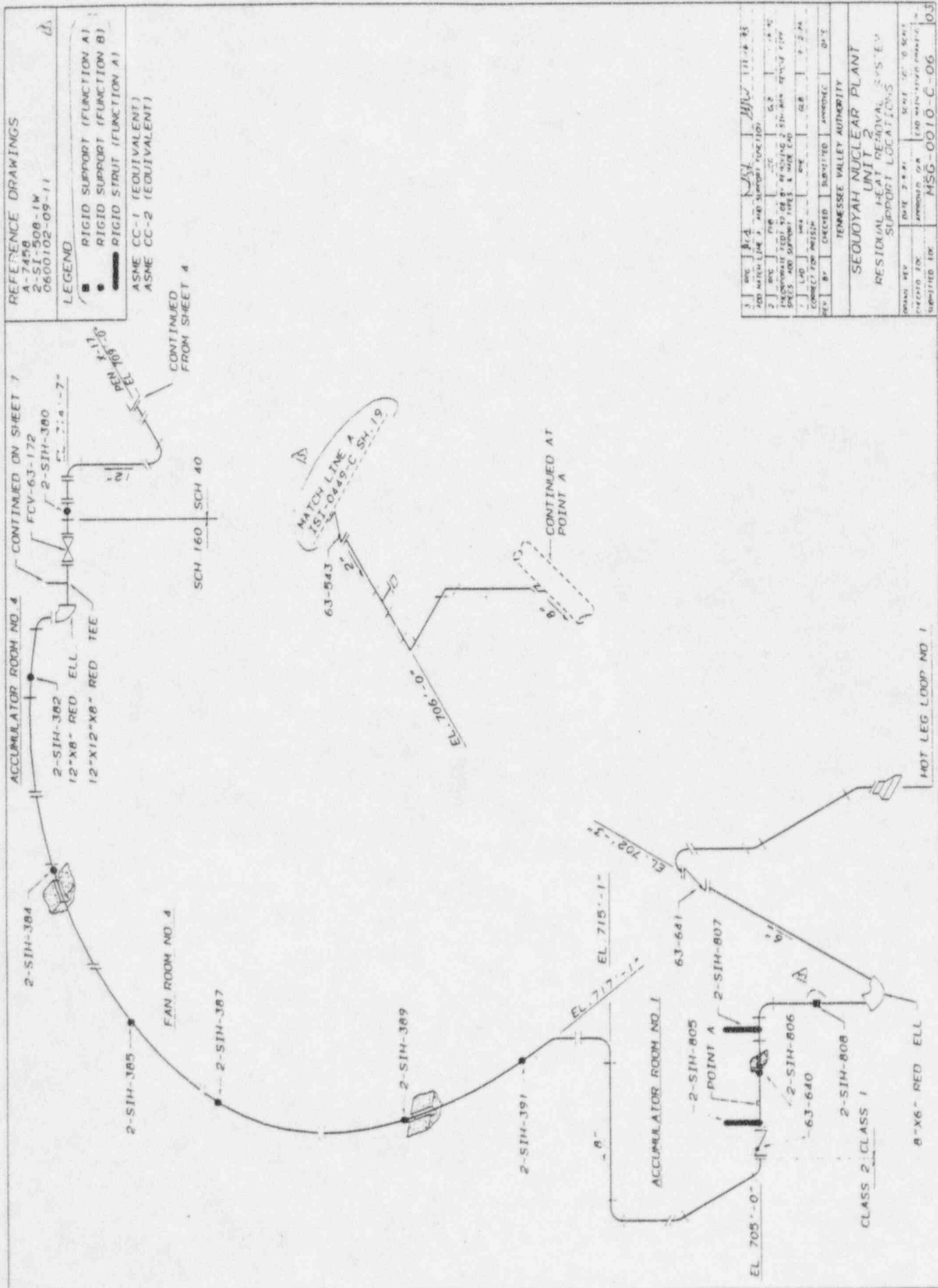
A-7454
47K432-50

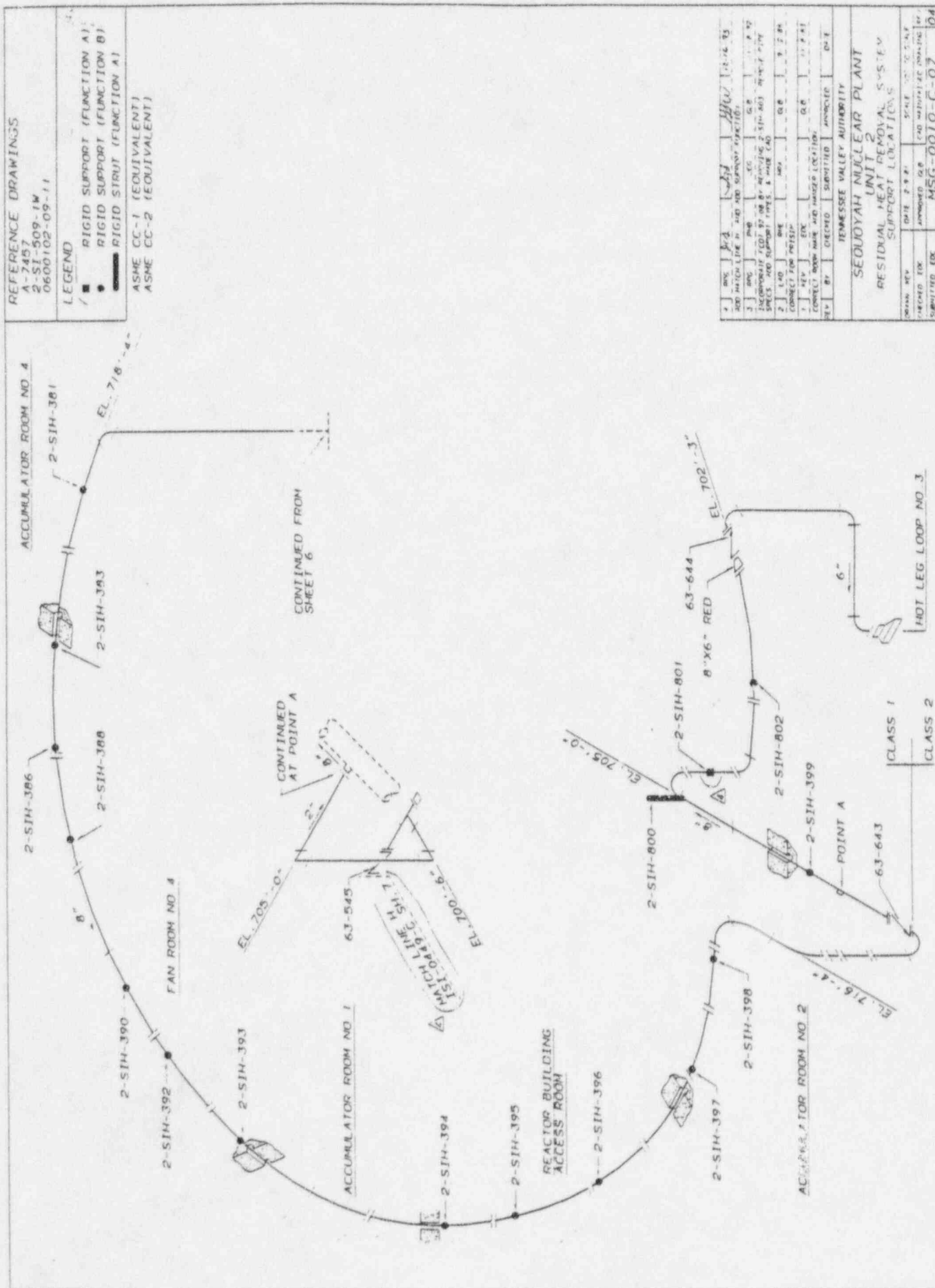
LEGEND

- RIGID SUPPORT (FUNCTION B)
- ⊗ VARIABLE SUPPORT (FUNCTION C)
- MECHANICAL SNUBBER (FUNCTION D)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

5	APC	ALL	WV	2-8-96
ADD "1 (VALVE SUPPORT)" TO 2-RHRH-509 PER FCDT 94-04				
4	APC	JCG	FRS	12-16-95
ADD MATCH LINE A, CONTINUED POINT B, 1A'S, ADD SUPPORT FUNCTION, CHANGE 2-RHRH-448 FROM MECH SNUBBER TO STRUT				
3	APC	PWB	JCG	11-18-92
INCORPORATE FCDT 92-08, BY REMOVING 2-RHRH-467, & CHANGE 2-RHRH-472 FROM MECH SNUBBER TO RIGID SUPPORT, ADD SUPPORT TYPES, & MAKE CAD				
2	PWB	APC	JCG	12-15-91
ADD VALVE OPERATOR SUPPORT 2-RHRH-509				
1	LAD	NRA	RNE	9-12-88
CORRECT FOR PRISM				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
RESIDUAL HEAT REMOVAL SYSTEM				
SUPPORT LOCATIONS				
DRAWN	KEY	DATE	2-8-81	SCALE NOT TO SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED	EDC	MSG-0010-C-05	05	



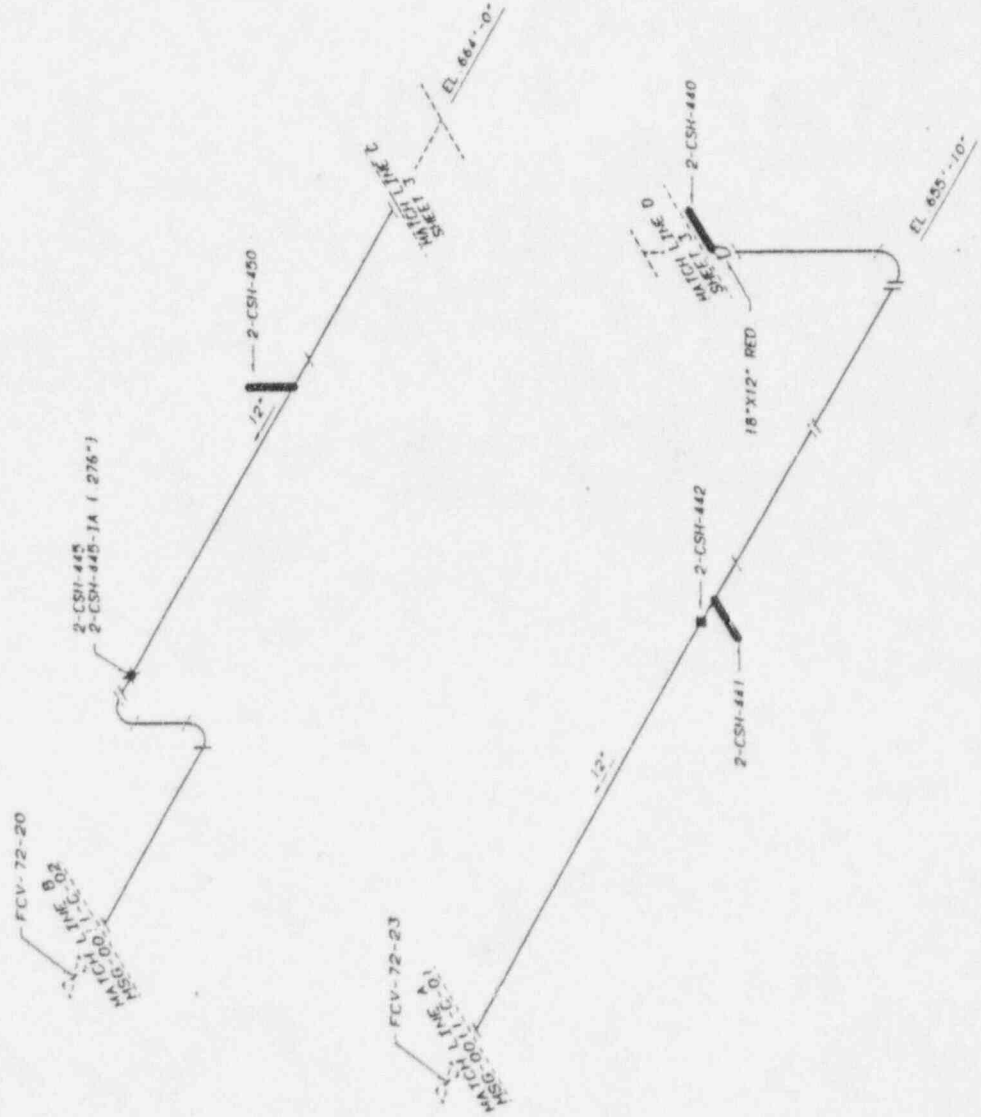


REFERENCE DRAWINGS
47K435-51

LEGEND

- RIGID SUPPORT (FUNCTION A)
- ▣ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



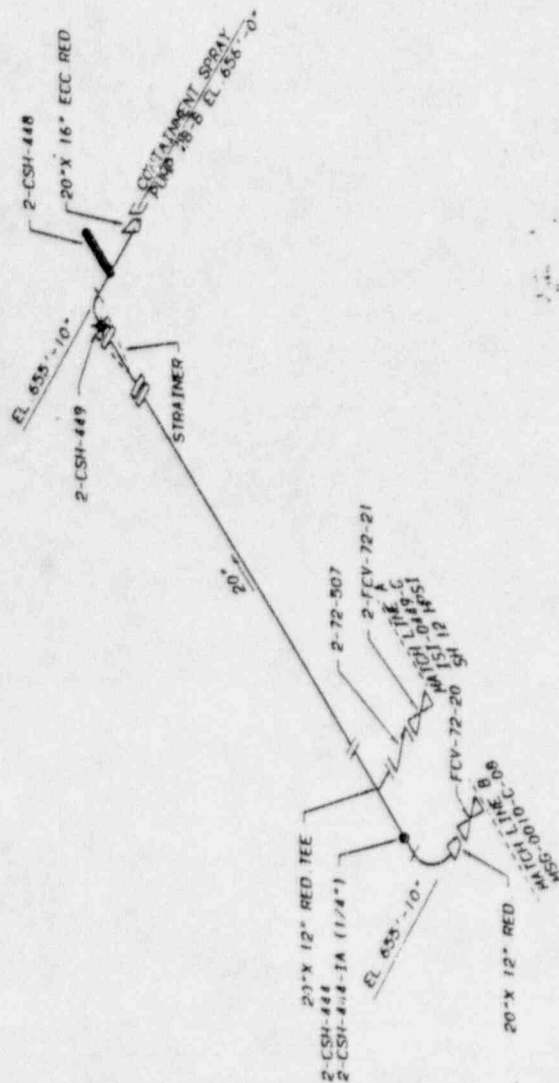
REV	PI	CHANGED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
RESIDUAL HEAT REMOVAL SYSTEM					
SUPPORT LOCATIONS					
DESIGN NO.	DATE	17-18-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED BY	WAL	CD	WAL	
SUBMITTED	DATE	17-18-85	MSG	0010-C-08	100

REFERENCE DRAWINGS
47N435-51

MATERIAL SPECIFICATIONS

- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)



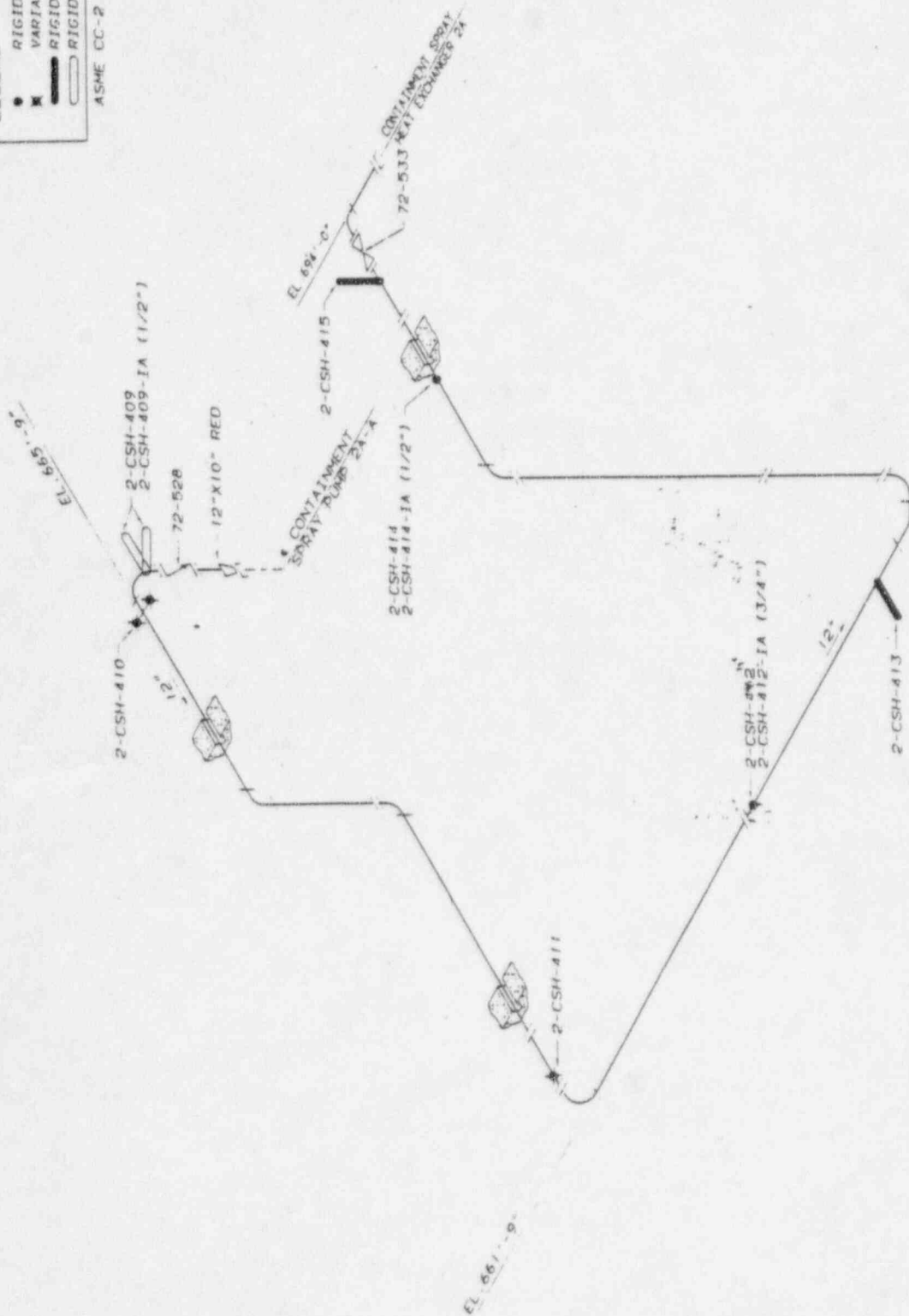
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
SUPPORT LOCATIONS					
DESIGN	BY	DATE	12-14-85	SCALE	NOT TO SCALE
CHECKED	J/A	APPROVED	J/W	CAD	REVISIONS
SUBMITTED	J/W				
MSG-0011-C-02					
100					

REFERENCE DRAWINGS
47K437-50

LEGEND

- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



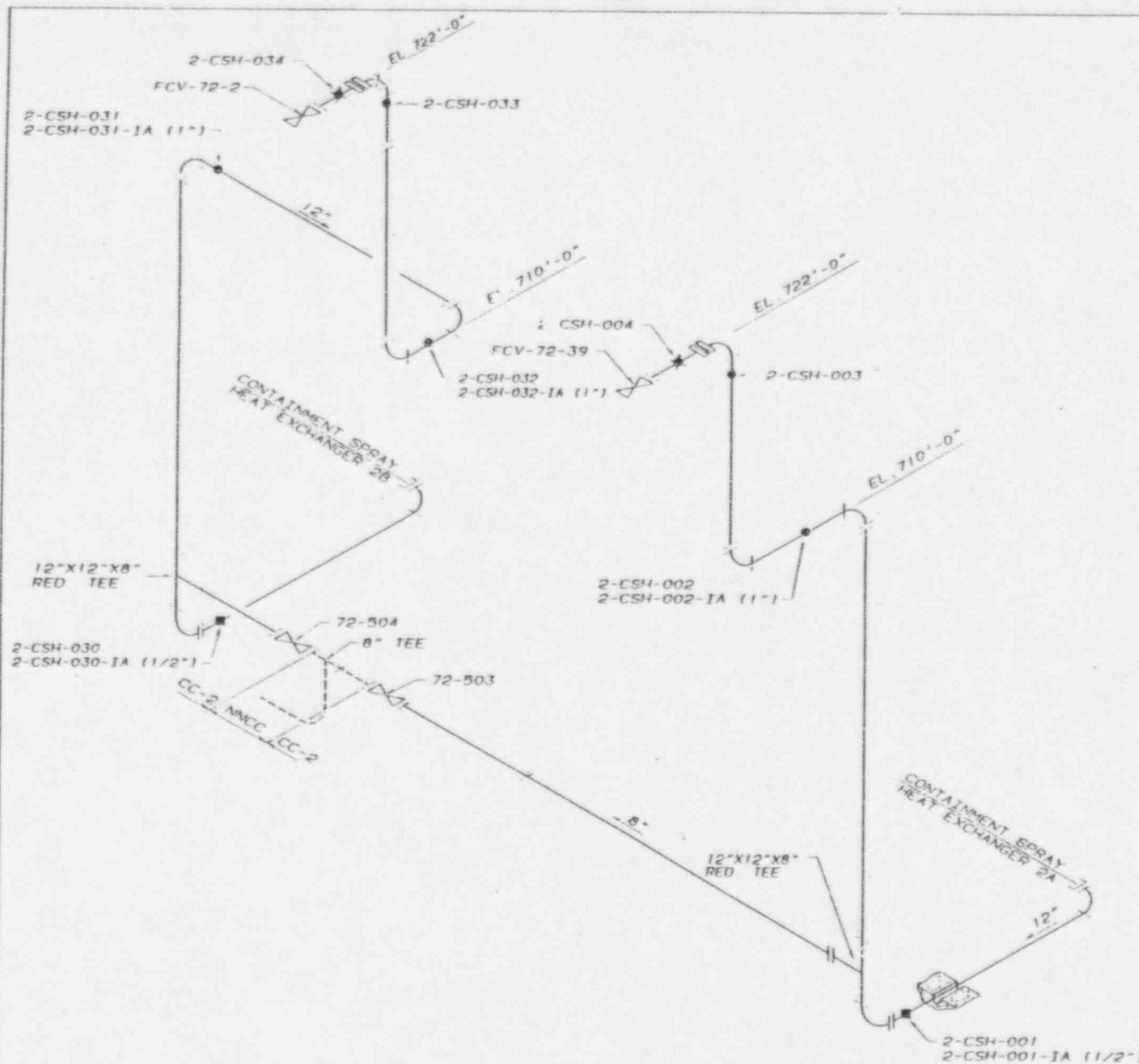
BY	CREATED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 2				
CONTAINMENT SPRAY				
SUPPORT LOCATIONS				
DESIGN NO.	DATE 12-8-83	SCALE NOT TO SCALE		
CREATED 8/83	APPROVED 11/83	NO MINOR REVISIONS		
SUBMITTED 11/83	MSG-0011-C-03			
				100

REFERENCE DRAWINGS
 CONTRACT TV-42499A
 DWG NO 0600102-01-01
 0600102-01-02

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
SUPPORT LOCATIONS					
DESIGNED BY	DATE	FILE NO.	BY	SCALE	NOT TO SCALE
CHECKED BY	APPROVED				
SUBMITTED					
MSG-0011-C-04					100

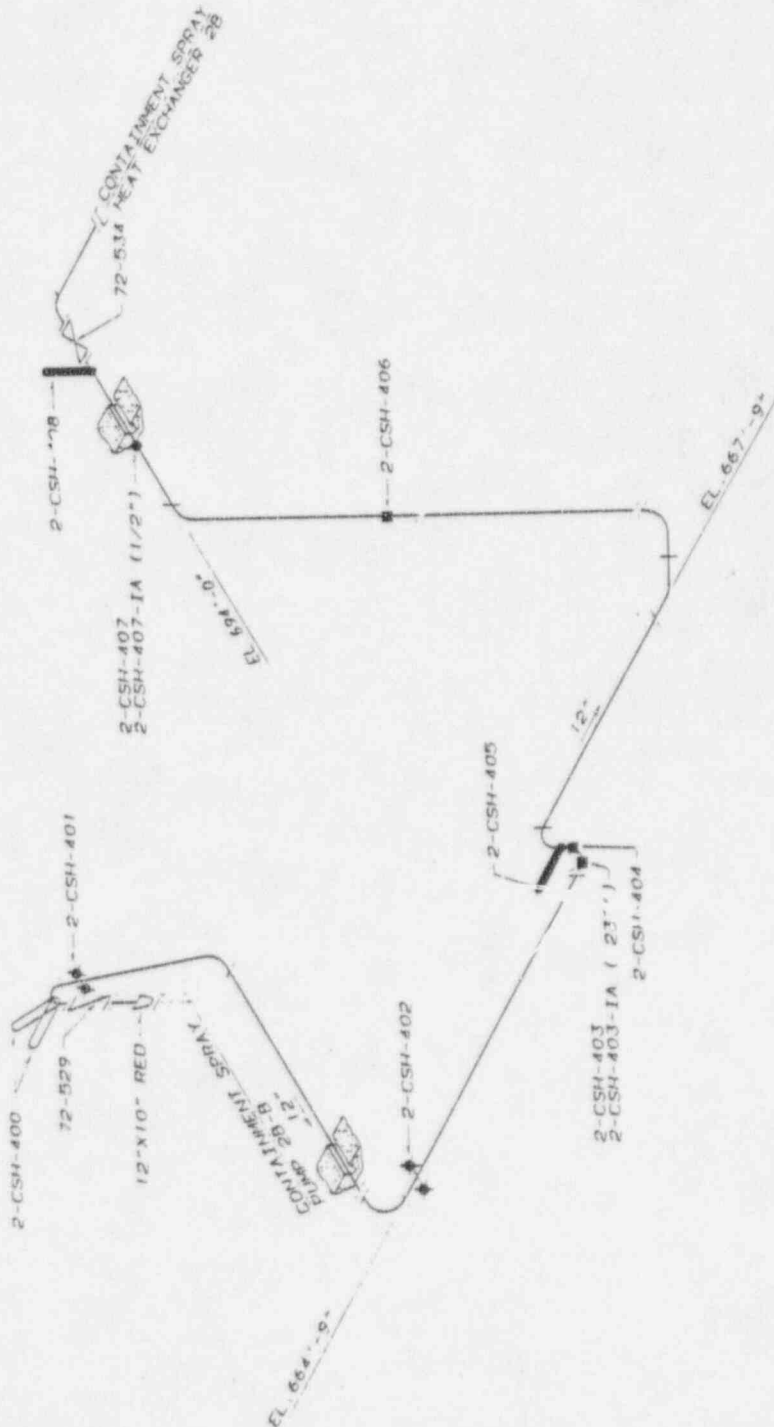
REFERENCE DRAWINGS

47K437-50

MATERIAL SPECIFICATIONS

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✱ VARIABLE SUPPORT (FUNCTION C)
- RIGID STRUT (FUNCTION A)
- RIGID STRUT (FUNCTION B)

ASME CC-2 (EQUIVALENT)



TENNESSEE VALLEY AUTHORITY

SECOYAH NUCLEAR PLANT

UNIT 2

CONTAINMENT SPRAY

SUPPORT LOCATIONS

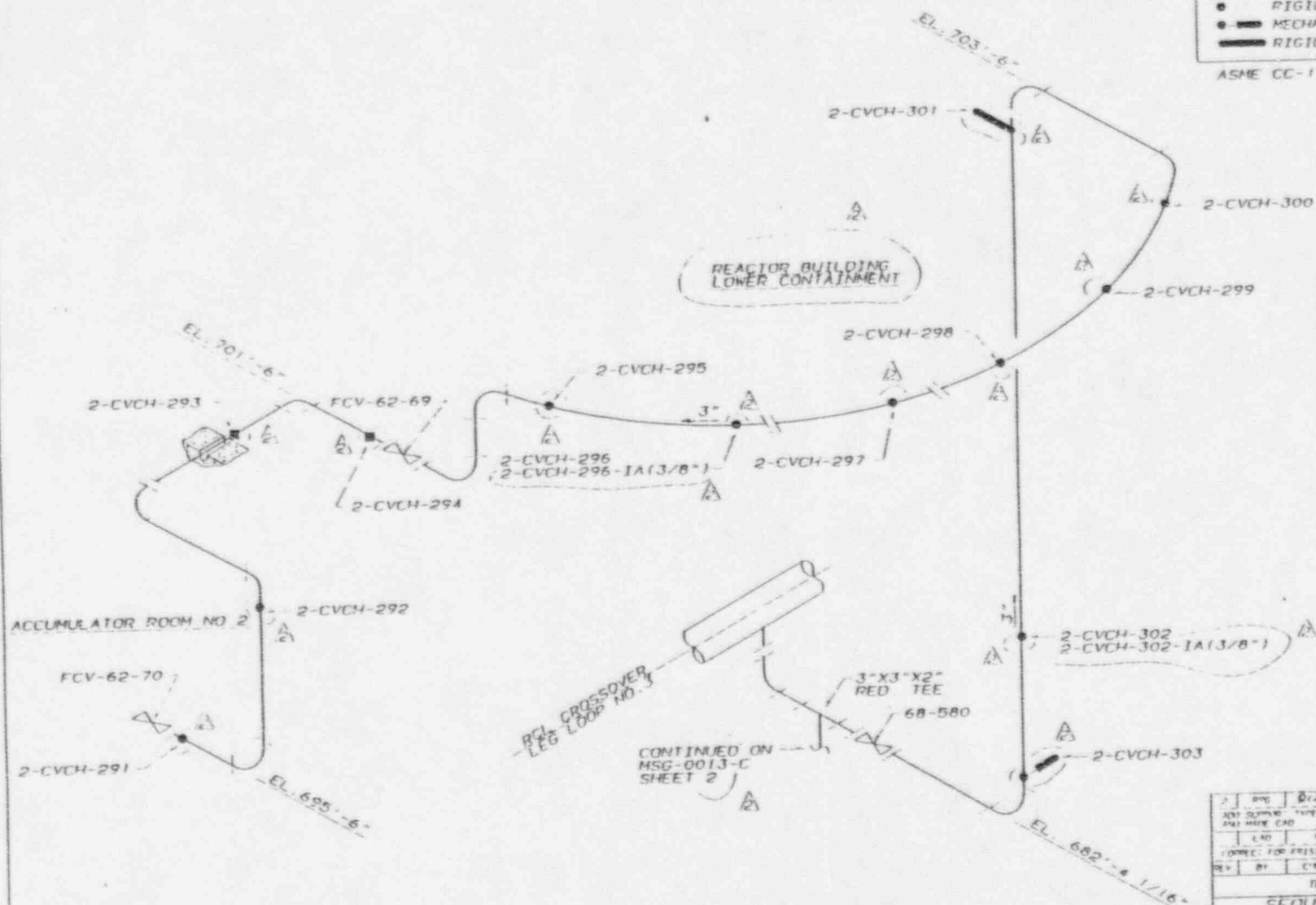
DATE 12-16-85
 DRAWN BY J.A.
 CHECKED BY J.A.
 SUBMITTED BY J.A.
 MSG-0011-C-05 00

REFERENCE DRAWINGS

0600102-08-10

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- MECHANICAL SNUBBER (FUNCTION D)
- RIGID STRUT (FUNCTION A)
- ASME CC-1 (EQUIVALENT)



DESIGNED BY	DATE	SCALE	1/2" = 1'-0"
CHECKED BY	DATE	SCALE	1/2" = 1'-0"
SUBMITTED BY	DATE	SCALE	1/2" = 1'-0"
Tennessee Valley Authority			
SEQUOYAH NUCLEAR PLANT			
UNIT 2			
CHEMICAL AND VOLUME CONTROL SYSTEM			
SUPPORT LOCATIONS			
MSG-0012-C-01 02			

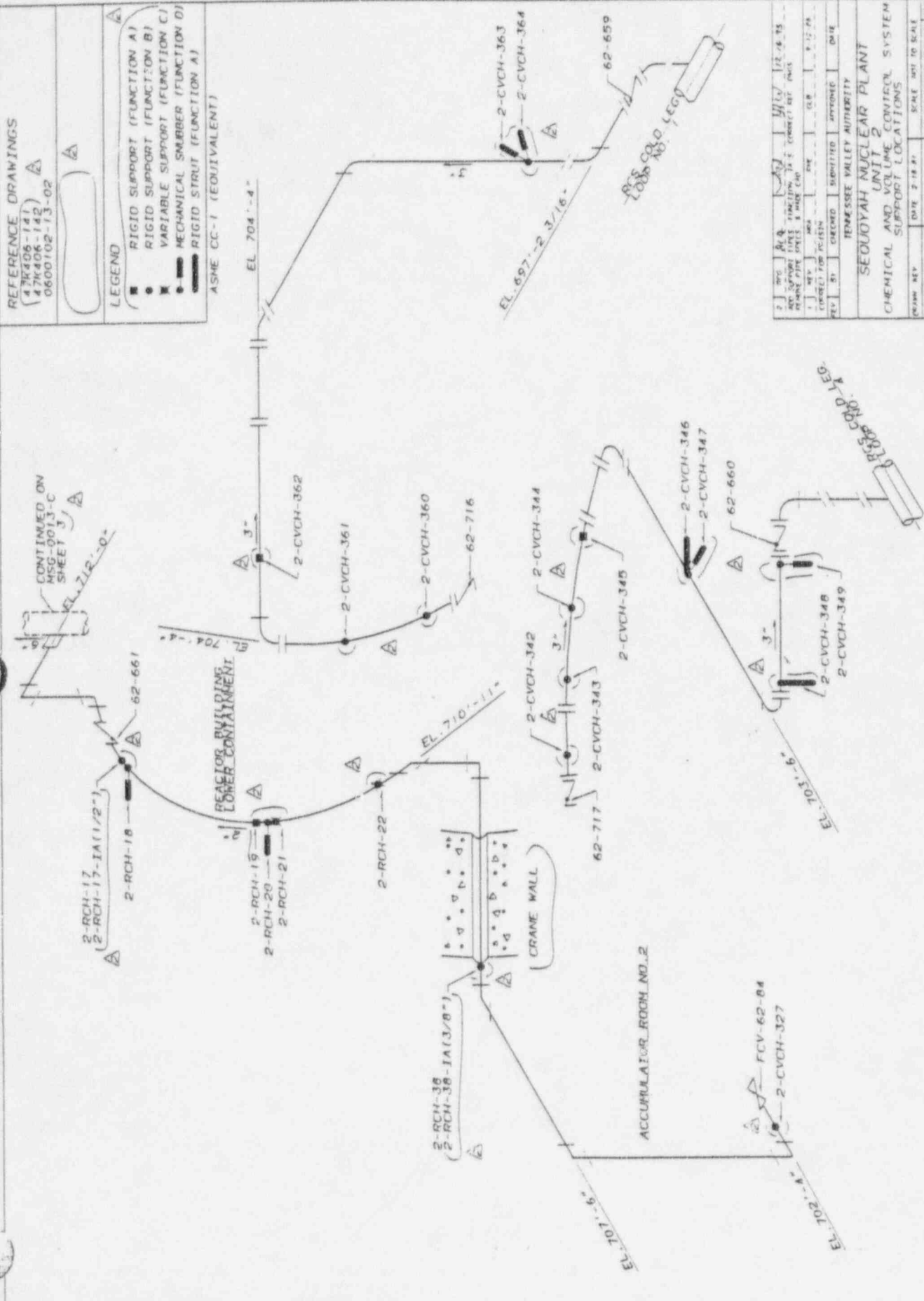
REFERENCE DRAWINGS

47K406-141
47K406-142
0600102-13-02

CONTINUED ON
MSG-0013-C
SHEET 3

- LEGEND
- RIGID SUPPORT (FUNCTION A)
 - RIGID SUPPORT (FUNCTION B)
 - VARIABLE SUPPORT (FUNCTION C)
 - MECHANICAL SNUBBER (FUNCTION D)
 - RIGID STRUT (FUNCTION A)

ASME CC-1 (EQUIVALENT)



SEJOYAH NUCLEAR PLANT
UNIT 2
CHEMICAL AND VOLUME CONTROL SYSTEM
SUPPORT LOCATIONS

DESIGN REV	DATE	2-18-81	SCALE	UNIT TO SCALE
CHECKED BY	APPROVED BY	08	CAD	MAINTAINED DRAWING
SUBMITTED BY	MSG-0012-C-02			102

REFERENCE DRAWINGS

0600102-13-09
0600102-13-10

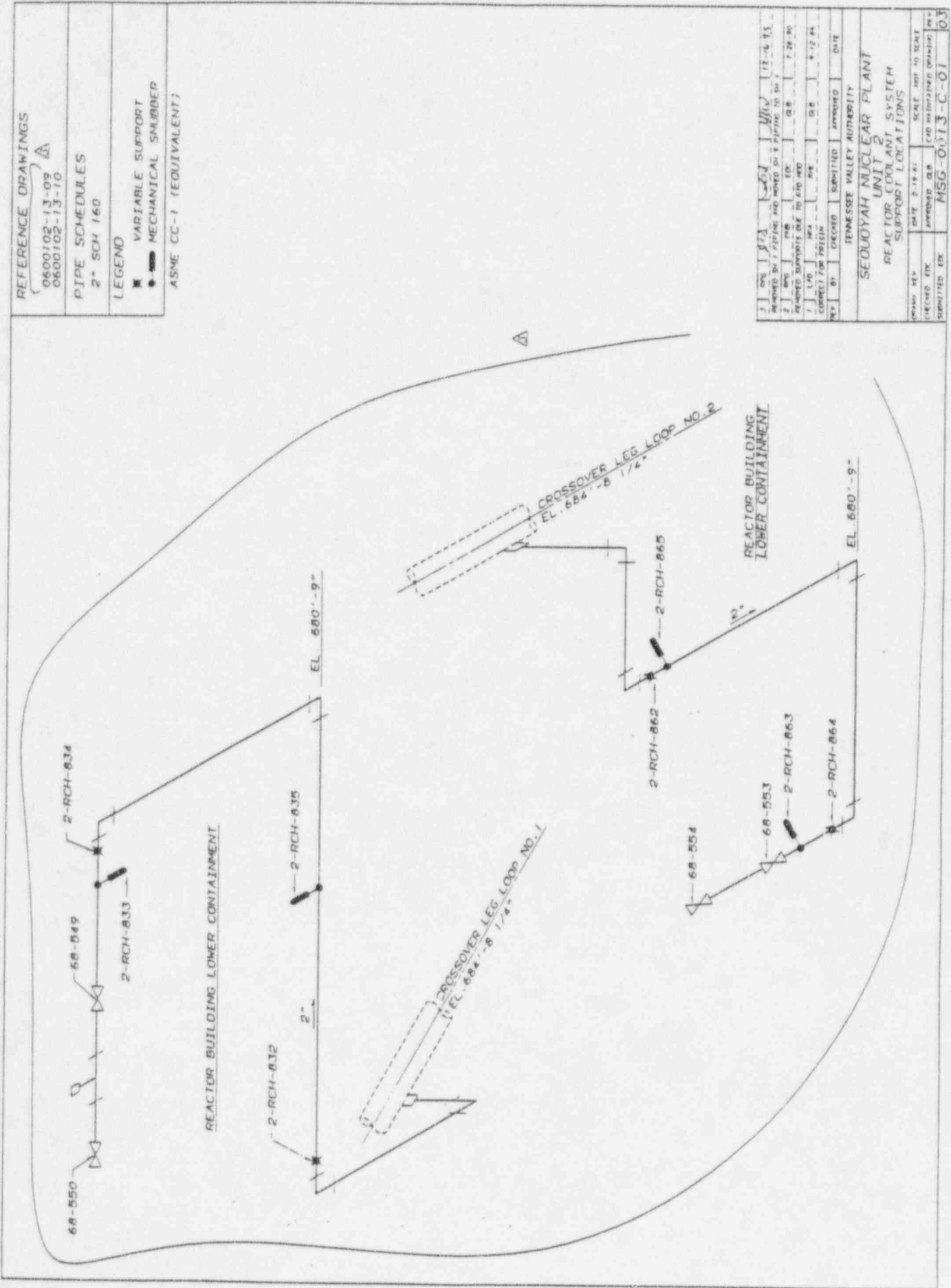
PIPE SCHEDULES

2" SCH 160

LEGEND

■ VARIABLE SUPPORT
● MECHANICAL SHORBER

ASME CC-1 (EQUIVALENT)



DESIGNED BY	CHKD BY	DATE	2-18-81	SCALE	NOT TO SCALE
CHECKED BY	APPROVED BY	DATE	2-18-81	CAD	MAINTAINED
SUBMITTED BY	MSG-013-C-01	03			

1	REV	8/83	253	12-16-85
2	REV	1/84	254	7-28-80
3	REV	1/84	255	9-12-84
4	REV	1/84	256	9-12-84
5	REV	1/84	257	9-12-84

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1	BY	CHECKED	SUBMITTED	APPROVED	DATE



TENNESSEE VALLEY AUTHORITY	
SECOYAH NUCLEAR PLANT	
UNIT 2	
REACTOR COOLANT SYSTEM	
SUPPORT LOCATIONS	

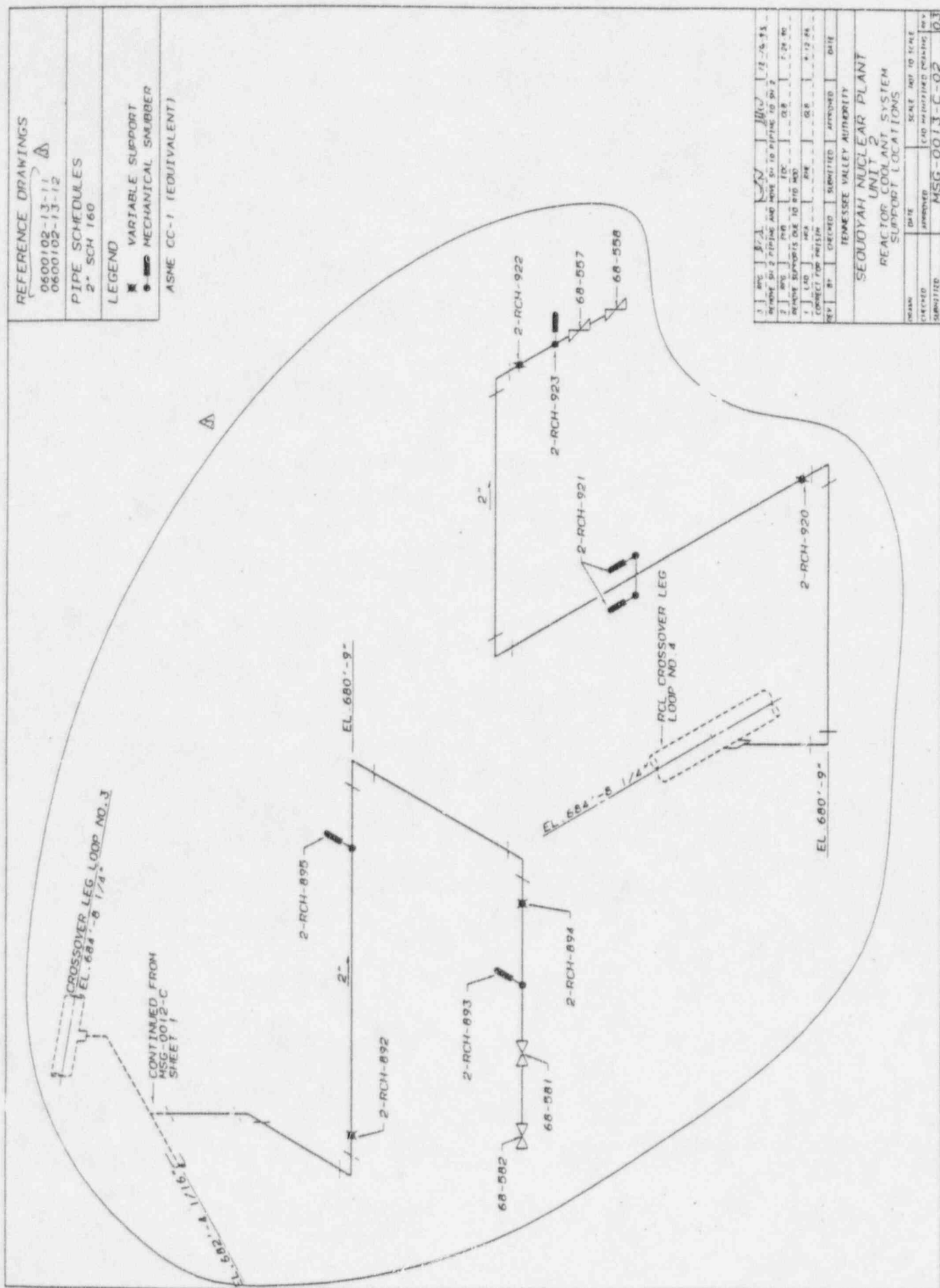
REFERENCE DRAWINGS

0600102-13-11
0600102-13-12

PIPE SCHEDULES
2" SCH 160

LEGEND

 VARIABLE SUPPORT
 MECHANICAL SNUBBER
 ASME CC-1 (EQUIVALENT)



REV	BY	CHKD	DATE	APPROVED	DATE
1	LD	MD	7-24-75		
2	LD	MD	7-24-75		
3	LD	MD	7-24-75		
4	LD	MD	7-24-75		
5	LD	MD	7-24-75		
6	LD	MD	7-24-75		
7	LD	MD	7-24-75		
8	LD	MD	7-24-75		
9	LD	MD	7-24-75		
10	LD	MD	7-24-75		
11	LD	MD	7-24-75		
12	LD	MD	7-24-75		
13	LD	MD	7-24-75		
14	LD	MD	7-24-75		
15	LD	MD	7-24-75		
16	LD	MD	7-24-75		
17	LD	MD	7-24-75		
18	LD	MD	7-24-75		
19	LD	MD	7-24-75		
20	LD	MD	7-24-75		
21	LD	MD	7-24-75		
22	LD	MD	7-24-75		
23	LD	MD	7-24-75		
24	LD	MD	7-24-75		
25	LD	MD	7-24-75		
26	LD	MD	7-24-75		
27	LD	MD	7-24-75		
28	LD	MD	7-24-75		
29	LD	MD	7-24-75		
30	LD	MD	7-24-75		
31	LD	MD	7-24-75		
32	LD	MD	7-24-75		
33	LD	MD	7-24-75		
34	LD	MD	7-24-75		
35	LD	MD	7-24-75		
36	LD	MD	7-24-75		
37	LD	MD	7-24-75		
38	LD	MD	7-24-75		
39	LD	MD	7-24-75		
40	LD	MD	7-24-75		
41	LD	MD	7-24-75		
42	LD	MD	7-24-75		
43	LD	MD	7-24-75		
44	LD	MD	7-24-75		
45	LD	MD	7-24-75		
46	LD	MD	7-24-75		
47	LD	MD	7-24-75		
48	LD	MD	7-24-75		
49	LD	MD	7-24-75		
50	LD	MD	7-24-75		
51	LD	MD	7-24-75		
52	LD	MD	7-24-75		
53	LD	MD	7-24-75		
54	LD	MD	7-24-75		
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61	LD	MD	7-24-75		
62	LD	MD	7-24-75		
63	LD	MD	7-24-75		
64	LD	MD	7-24-75		
65	LD	MD	7-24-75		
66	LD	MD	7-24-75		
67	LD	MD	7-24-75		
68	LD	MD	7-24-75		
69	LD	MD	7-24-75		
70	LD	MD	7-24-75		
71	LD	MD	7-24-75		
72	LD	MD	7-24-75		
73	LD	MD	7-24-75		
74	LD	MD	7-24-75		
75	LD	MD	7-24-75		
76	LD	MD	7-24-75		
77	LD	MD	7-24-75		
78	LD	MD	7-24-75		
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81	LD	MD	7-24-75		
82	LD	MD	7-24-75		
83	LD	MD	7-24-75		
84	LD	MD	7-24-75		
85	LD	MD	7-24-75		
86	LD	MD	7-24-75		
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89	LD	MD	7-24-75		
90	LD	MD	7-24-75		
91	LD	MD	7-24-75		
92	LD	MD	7-24-75		
93	LD	MD	7-24-75		
94	LD	MD	7-24-75		
95	LD	MD	7-24-75		
96	LD	MD	7-24-75		
97	LD	MD	7-24-75		
98	LD	MD	7-24-75		
99	LD	MD	7-24-75		
100	LD	MD	7-24-75		

SEQUOYAH NUCLEAR PLANT
UNIT 2
REACTOR COOLANT SYSTEM
SUPPORT LOCATIONS

DESIGNED	DATE	SCALE	NOT TO SCALE
CHECKED	DATE	SCALE	NOT TO SCALE
SUBMITTED	DATE	SCALE	NOT TO SCALE
MSG-0013-C-02			
03			

REFERENCE DRAWINGS

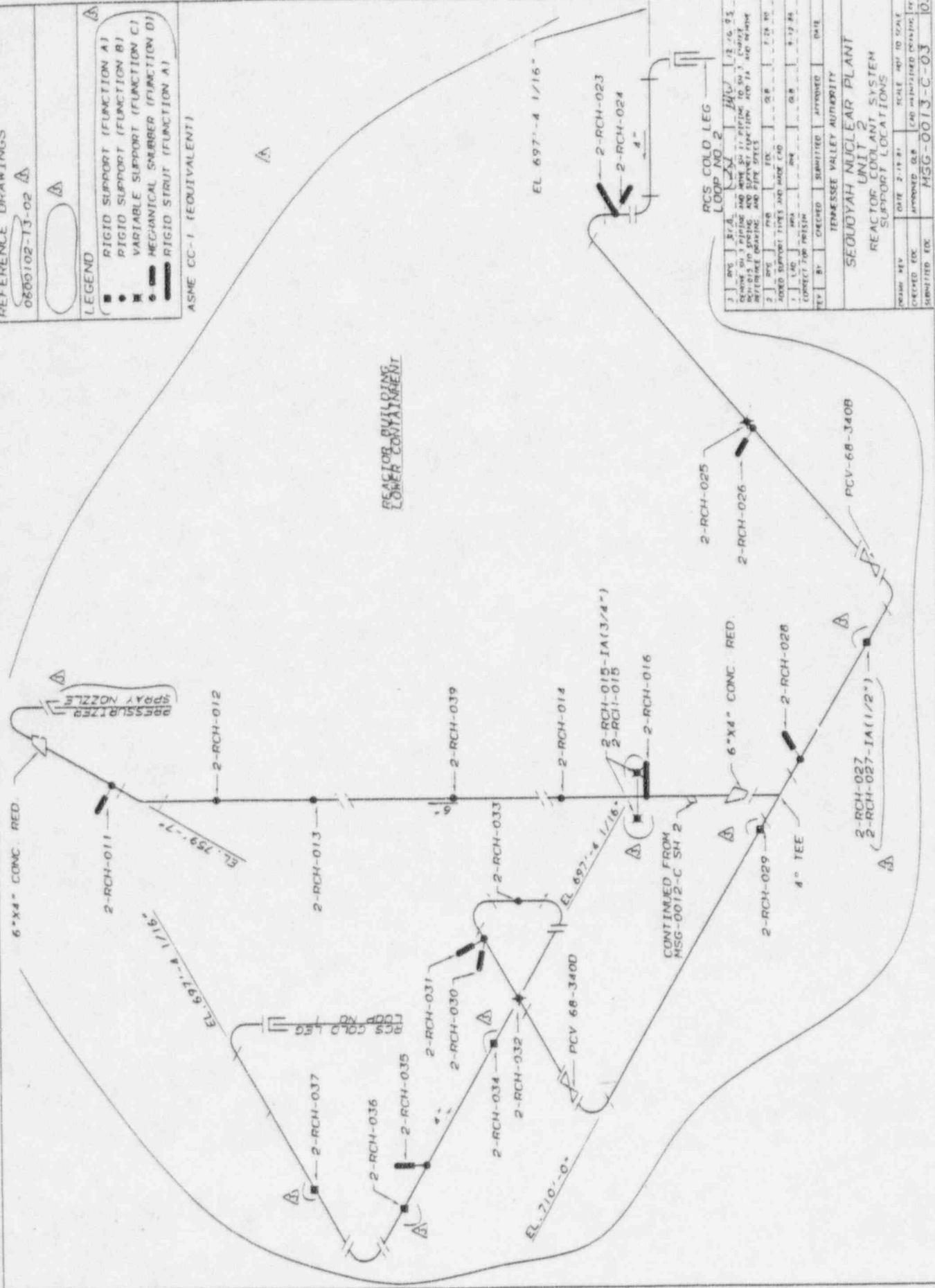
MSG-0012-13-02

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ⊠ VARIABLE SUPPORT (FUNCTION C)
- ⊞ MECHANICAL SHIMMER (FUNCTION D)
- RIGID STRUT (FUNCTION A)

ASME CC-1 (EQUIVALENT)

REACTOR BUILDING
LOWER CONTAINMENT



RCS COLD LEG
LOOP NO. 2

REV	BY	CHKD	DATE	DESCRIPTION
1	WJ	WJ	12/16/93	REVISED TO 1 PIPELINE AND 1 PIPELINE TO 1/2\"/>

SEQUIOIA NUCLEAR PLANT
UNIT 2
REACTOR COOLANT SYSTEM
SUPPORT LOCATIONS

REV	BY	CHKD	DATE	DESCRIPTION
1	WJ	WJ	12/16/93	REVISED TO 1 PIPELINE AND 1 PIPELINE TO 1/2\"/>

ISI-001J-C
47K465-55, 56, 57, 58, 60

6" SCH 160
3" SCH 160

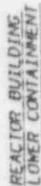
LEGEND

■ RIGID SUPPORT

Variable	Support (Function)
...	...

ASME CC-1 (EQUIVALENT)

1 FOR LOCATION OF NOZZLES ON THE PRESSURIZER SEE ISI-0396-C

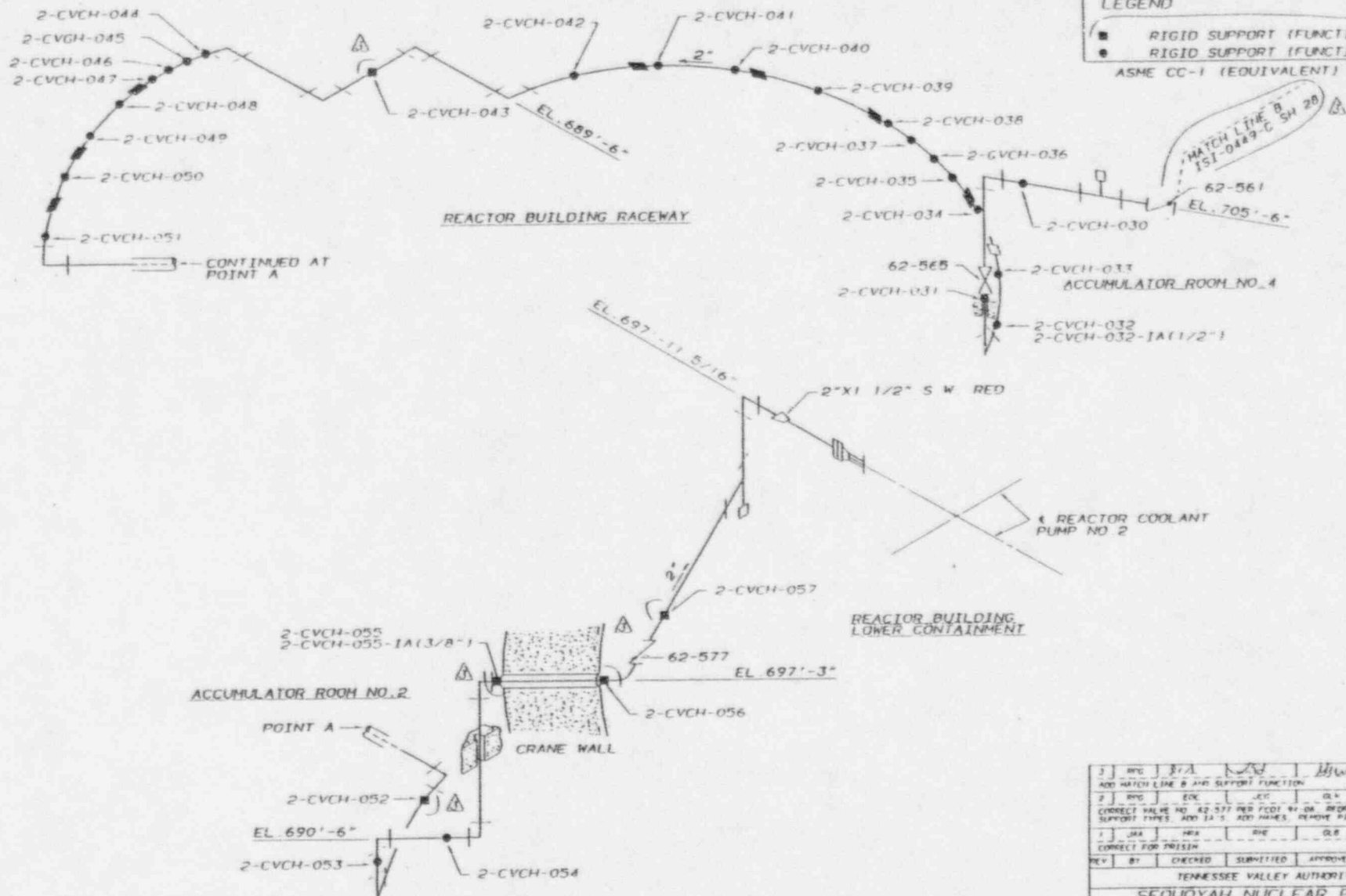
[illegible]

REFERENCE DRAWINGS

2-CVC-501-1W
2-CVC-501-2W
47K406-101

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ASME CC-1 (EQUIVALENT)



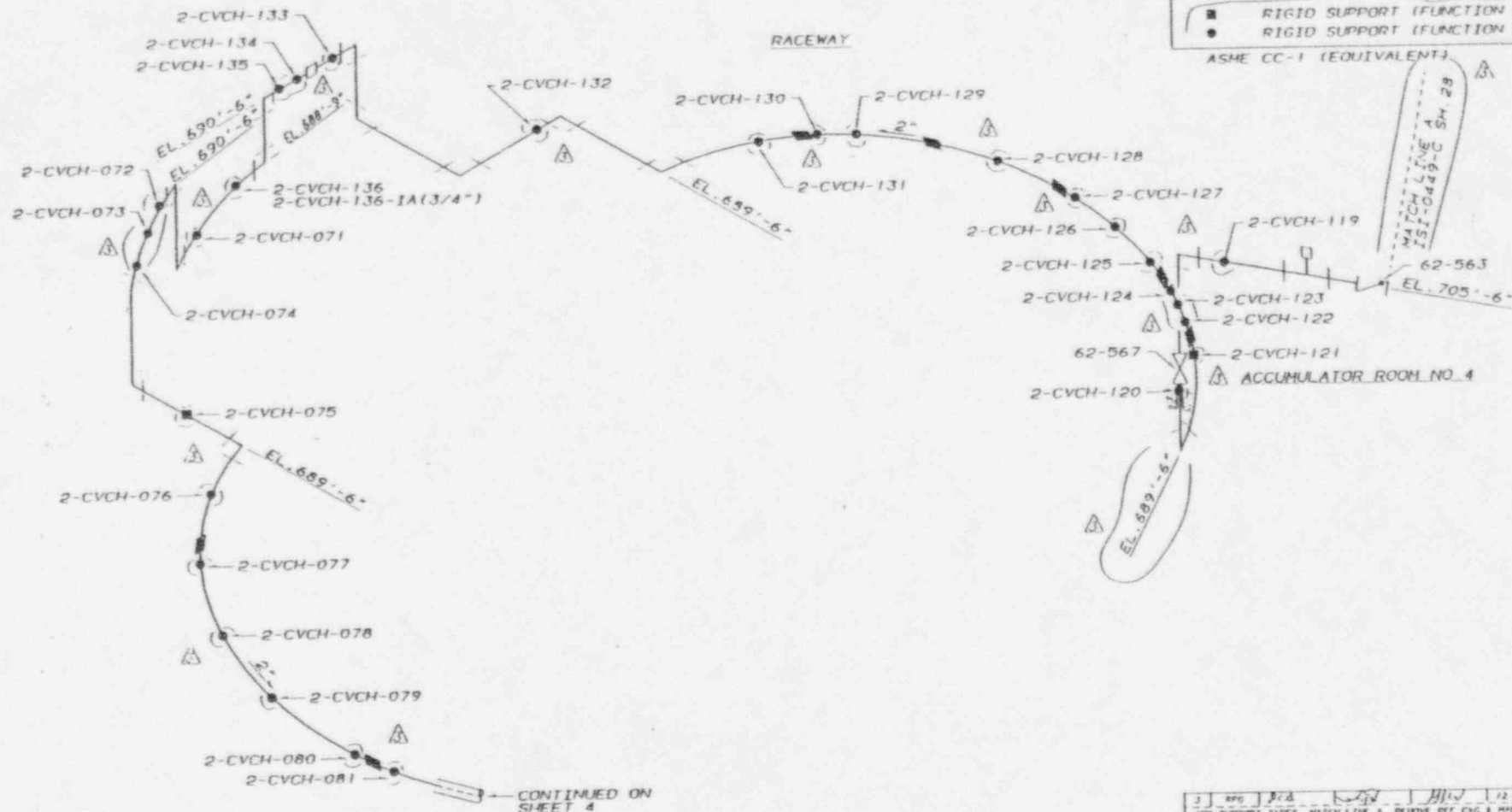
3	BY	SA	MS	HW	12-16-95
ADD HATCH LINE B AND SUPPORT FUNCTION					
2	BY	EDC	JEC	GLB	11-15-94
CORRECT VALVE NO. 62-577 PER FOOT BY DA. REORIN ON CAD AND SUPPORT TYPES. ADD 1A'S. ADD PAGES. REMOVE PIPE SCHEDULES					
1	BY	MS	RHE	GLB	2-28-86
CORRECT FOR TDRSIN					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
SEAL WATER INJECTION					
(CHEMICAL VOLUME & CONTROL SYSTEM)					
DRAWN	REV	DATE	2-28-91	SCALE	NOT TO SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED	DATE
SUBMITTED	EDC	MSG-0015-C-02			03

REFERENCE DRAWINGS

0600102-08-05
0600152-08-03

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ASME CC-1 (EQUIVALENT)



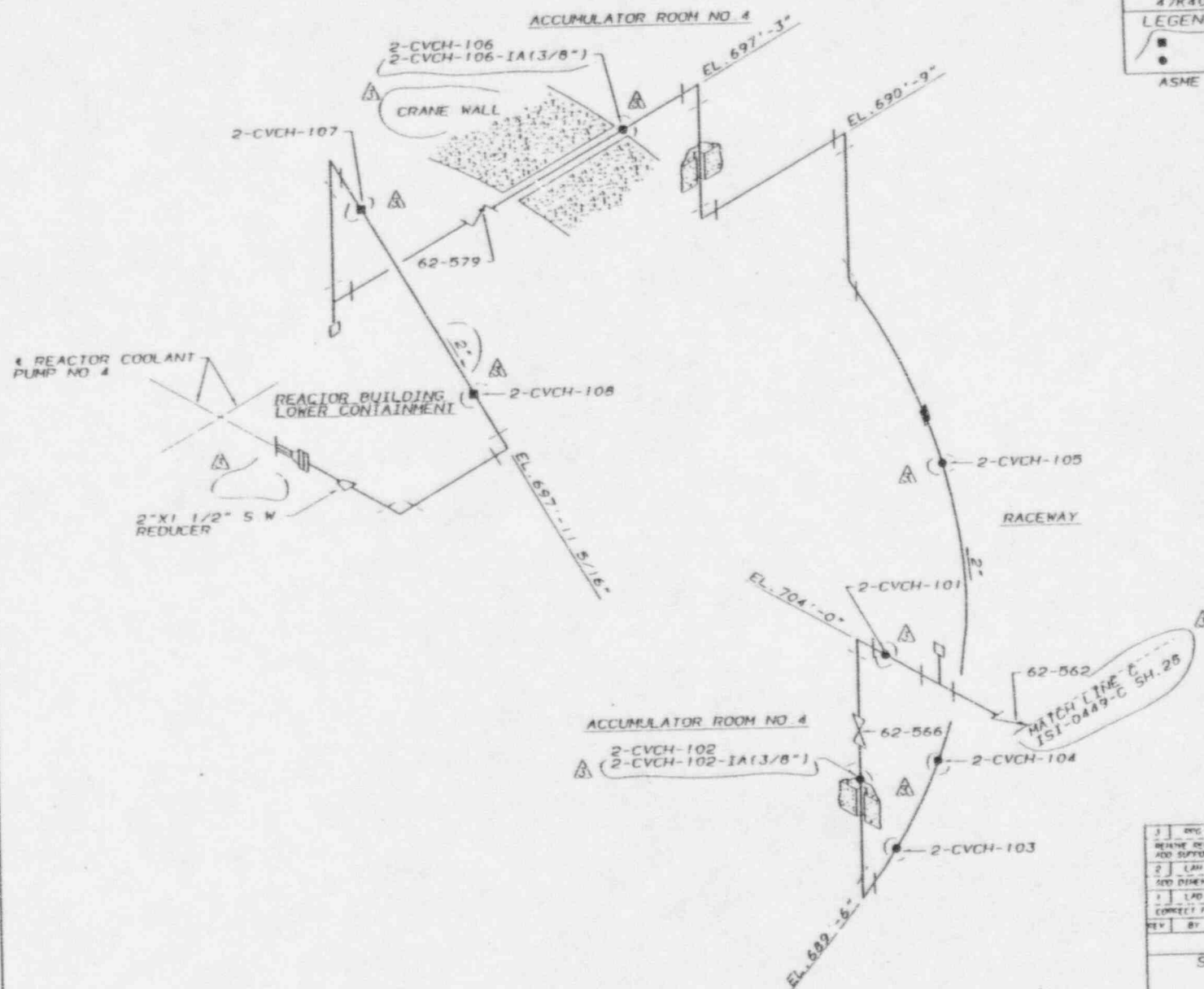
3	RPG	STC	HW	12/4/95
ADD SUPPORT TYPES MATCH LINE A REVISION REF ENG & MADE CAD				
2	JWA	JWA	REC	CLB 9/28/97
ADD SUP & CVCH-136-1A (3/4")				
1	JWA	JWA	DWG	CLB 8/24/96
CORRECT DWG FOR DESIGN				
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
SEAL WATER INJECTION				
(CHEMICAL AND VOLUME CONTROL SYSTEM)				
SUPPORT LOCATIONS				
DRAWN BY	DATE	2-26-97	SCALE	NOT TO SCALE
CHECKED EDC	APPROVED	CLB	CAD MANIPULATED DRAWING	REV
SUBMITTED EDC	MSG-0015-C-03			

REFERENCE DRAWINGS

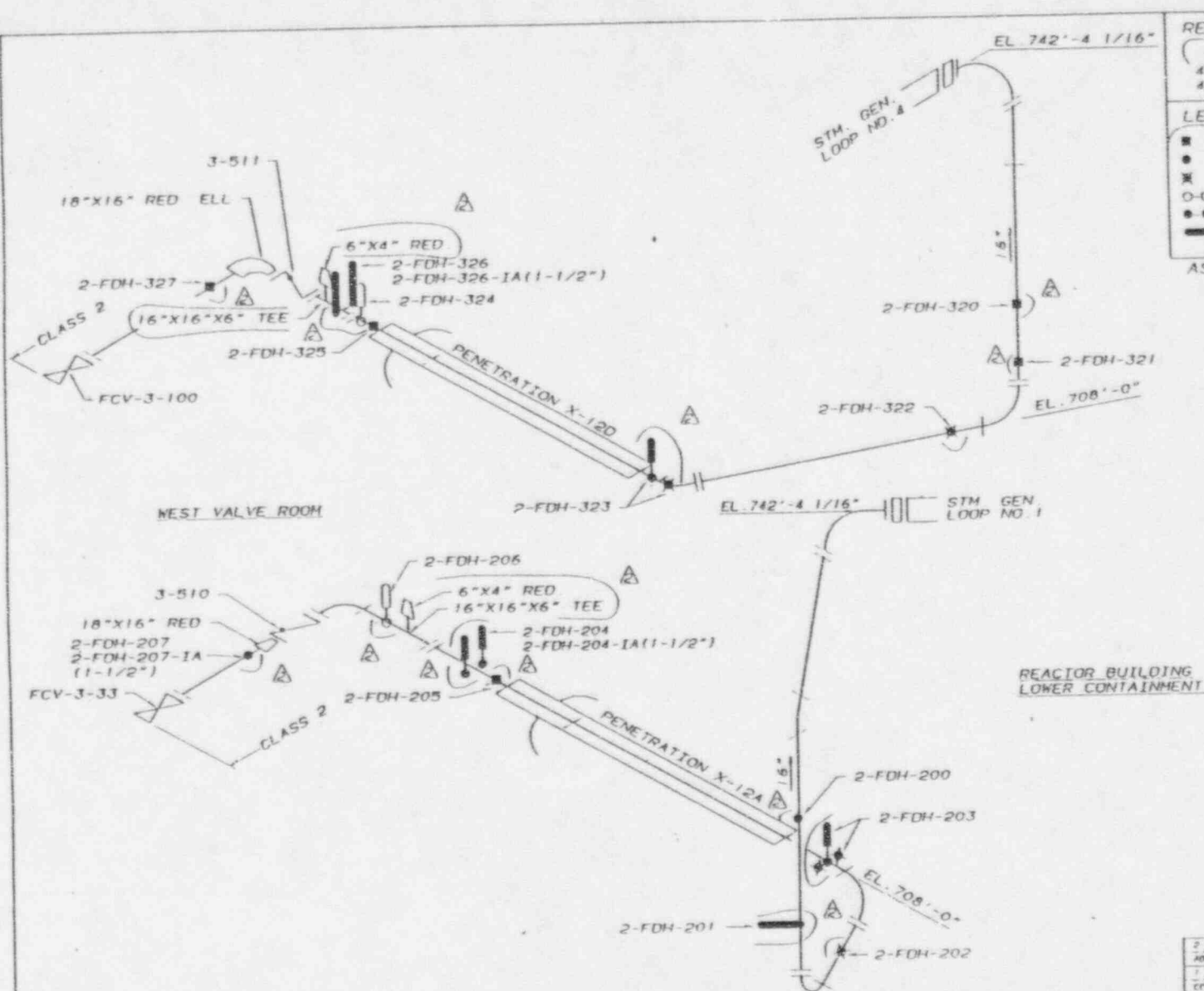
47K406-121

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ASME CC-1 (EQUIVALENT)



3	ENG	DFA	1/1/85	12-16-85
RENAME REFERENCE DRAWING, PIPE SCHEDULES AND MATCH LINE C				
ADD SUPPORT TYPES & FUNCTION, & MAKE END				
2	LAW	HRA	REC	GLB
REV DIMENSION				
1	LAD	HRA	REC	GLB
CORRECT FOR POISON				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
SEAL WATER INJECTION				
(CHEMICAL AND VOLUME CONTROL SYSTEM)				
SUPPORT LOCATIONS				
DRAWN	REV	DATE	2-27-81	SCALE
CHECKED	EDC	APPROVED	GLB	CAD MAINTAINED DRAWING
SUBMITTED	EDC	MSG-0013-C-05		03



REFERENCE DRAWINGS

47K401-50
47K401-51

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- ✕ VARIABLE SUPPORT (FUNCTION C)
- ○ HYDRAULIC SHUBBER (FUNCTION D)
- ▬ MECHANICAL SHUBBER (FUNCTION D)
- ▬ RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

2	MSG	3/1	11-16-95	11-16-95
ADD SUPPORT TYPES, FUNCTION, CORRECT REF, DIMS & MAKE END				
1	REV	ETC	GLB	11-16-95
CORRECT NUMBER LOCATIONS				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
FEEDWATER SYSTEM				
SUPPORT LOCATIONS				
DRAWN	REV	DATE	2-28-81	SCALE
CHECKED	EDK	APPROVED	GLB	CAD
SUBMITTED	EDK	MSG-0016-C-01	02	

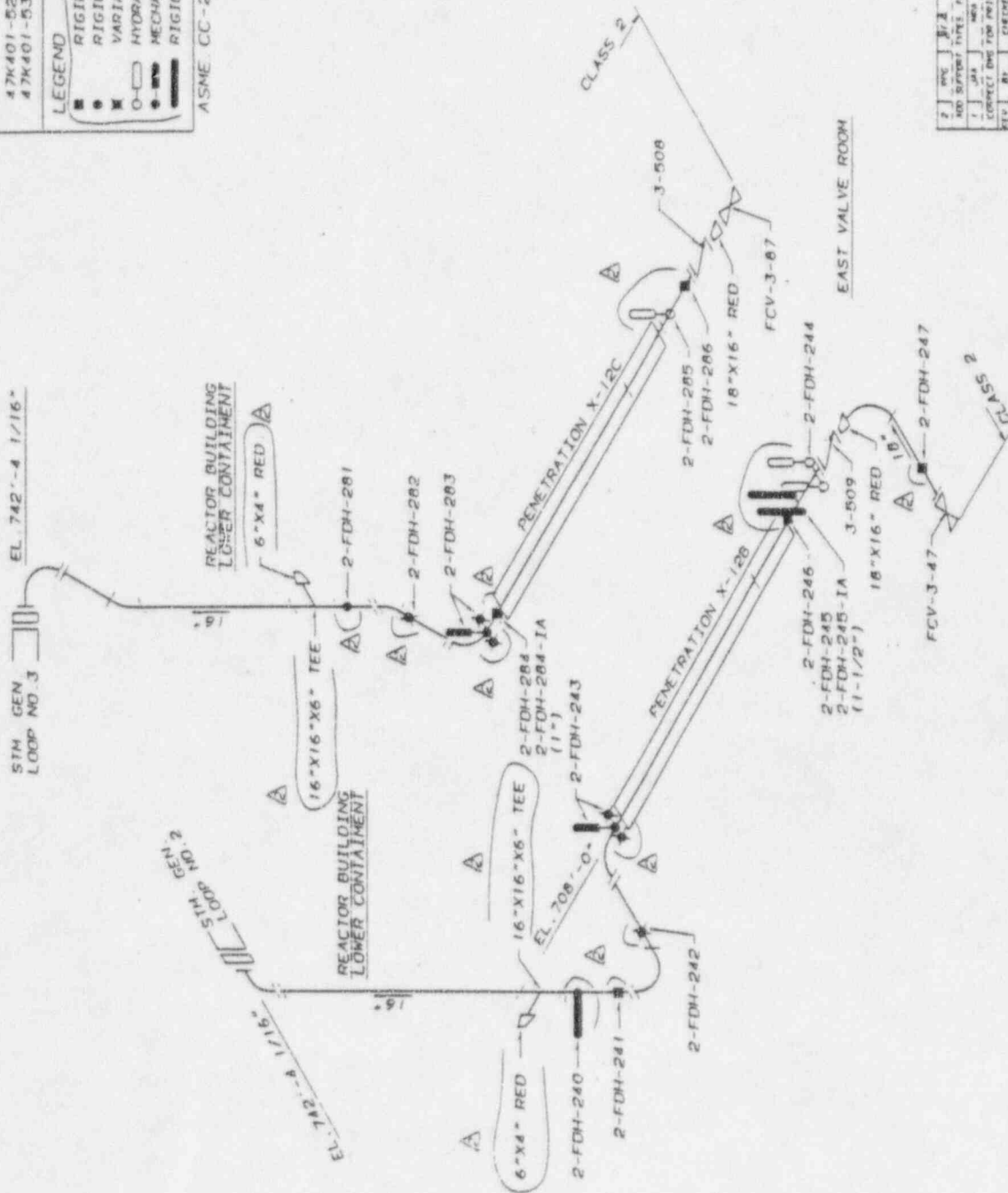
REFERENCE DRAWINGS

47K401-52
47K401-53

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- HYDRAULIC SNUBBER (FUNCTION D)
- MECHANICAL SNUBBER (FUNCTION D)
- RIGID STRUT (FUNCTION A)

ASME CC-2 (EQUIVALENT)

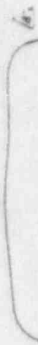


REV	BY	CHKD	DATE	DESCRIPTION
1	JAL	WES	03.8	2-12-85
2	WES	WES	03.8	2-12-85
3	WES	WES	03.8	2-12-85
4	WES	WES	03.8	2-12-85

DESIGNED BY	DATE	2-29-81	SCALE	NOT TO SCALE
CHECKED BY	DATE	03.8	CAD	NOT TO SCALE
SUBMITTED BY	DATE	03.8	SCALE	NOT TO SCALE
Tennessee Valley Authority				
Sequoyah Nuclear Plant				
Unit 2				
Feedwater System				
Support Locations				
MSG-0016-C-02				

REFERENCE DRAWINGS

01-00103-06-01
0600102-06-04



LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- HYDRAULIC SHUDDER (FUNCTION D)
- MECHANICAL SHUDDER (FUNCTION D)

ASME CC-2 (EQUIVALENT)

EL 767'-10 1/4"

STEAM GEN 2
LOOP NO. 2

REACTOR BUILDING
LOWER CONTAINMENT

2-MSH-422
2-MSH-422-1A(2")

2-MSH-423
2-MSH-423-1A(1", 2 1/2")

2-MSH-303
2-MSH-303-1A(1", 2 1/2")

EL 714'-0"

2-MSH-304

2-MSH-305

2-MSH-440
PCV-1-30
EL 735'-0 13/16"

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

1-531

2-MSH-440

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

2-MSH-440

PCV-1-30

EL 735'-0 13/16"

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

1-531

2-MSH-440

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

2-MSH-440

PCV-1-30

EL 735'-0 13/16"

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

1-531

2-MSH-440

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

2-MSH-440

PCV-1-30

EL 735'-0 13/16"

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

1-531

2-MSH-440

1-622

2-MSH-434

1-522

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1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

2-MSH-440

PCV-1-30

EL 735'-0 13/16"

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

1-531

2-MSH-440

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

2-MSH-440

PCV-1-30

EL 735'-0 13/16"

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

1-526

2-MSH-432

1-527

2-MSH-435

1-528

2-MSH-316

1-529

2-MSH-322

1-530

2-MSH-317

1-531

2-MSH-440

1-622

2-MSH-434

1-522

2-MSH-317

1-523

2-MSH-433

1-524

2-MSH-322

PCV-1-51-524

1-525

2-MSH-315

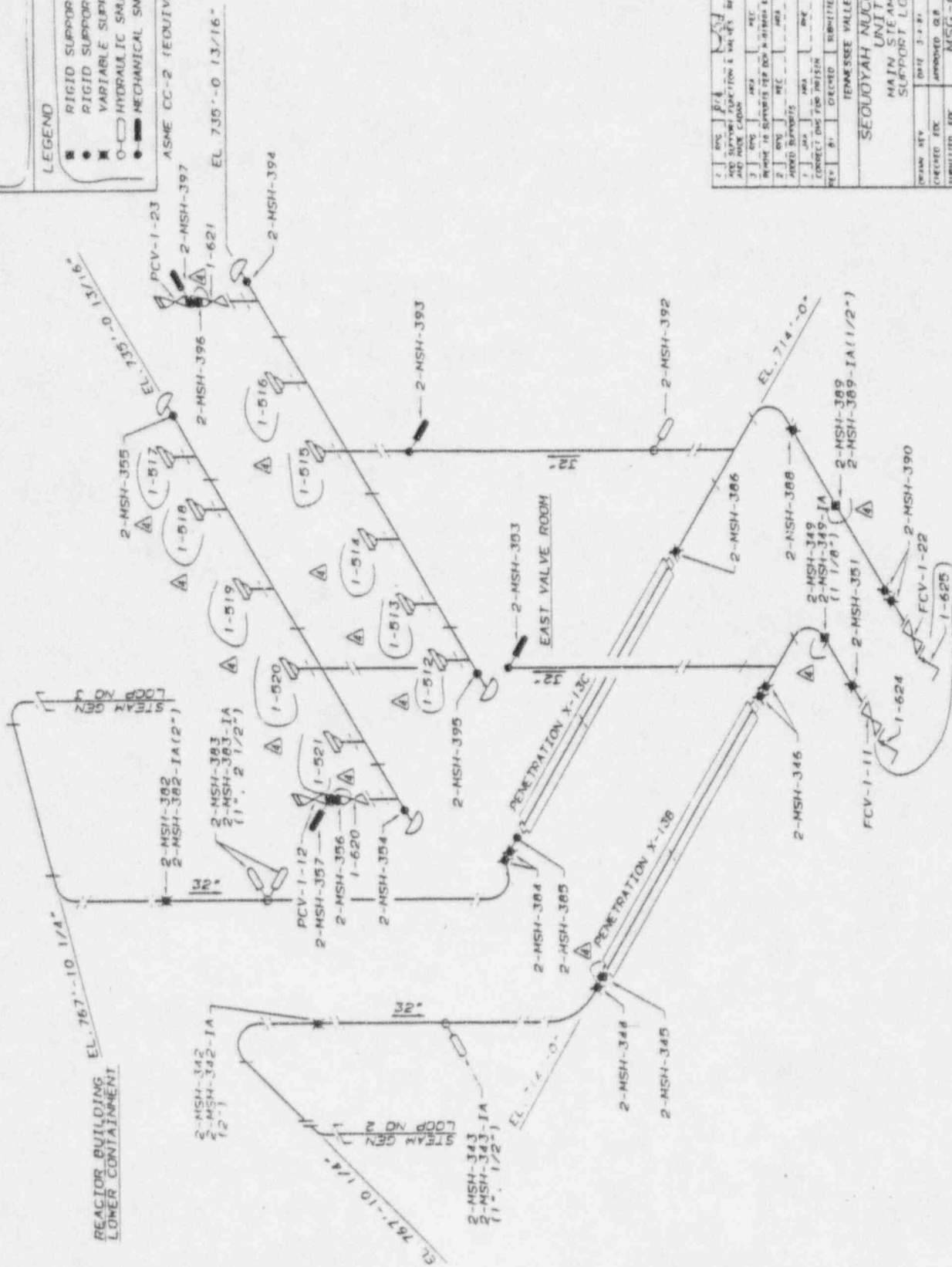
REFERENCE DRAWINGS

0600106-06-02 A
0600106-06-03

LEGEND

- RIGID SUPPORT (FUNCTION A)
- RIGID SUPPORT (FUNCTION B)
- VARIABLE SUPPORT (FUNCTION C)
- HYDRAULIC SMOTHER (FUNCTION D)
- MECHANICAL SMOTHER (FUNCTION D)

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	DATE	DESCRIPTION	SCALE	NOT TO SCALE
1	WV	WV	11-12-83	ADD SUPPORT FUNCTION & VALVES. CHANGE PIPE SIZE REFERENCES AND MAKE CADD	1/2"	

SEQUIOAH NUCLEAR PLANT
UNIT 2
MAIN STEAM SYSTEM
SUPPORT LOCATIONS

REV	BY	CHKD	DATE	DESCRIPTION	SCALE	NOT TO SCALE
1	WV	WV	11-12-83	ADD SUPPORT FUNCTION & VALVES. CHANGE PIPE SIZE REFERENCES AND MAKE CADD	1/2" = 1'-0"	1/2" = 1'-0"

THIS DRAWING SUPERSEDED BY ISI-0074-C

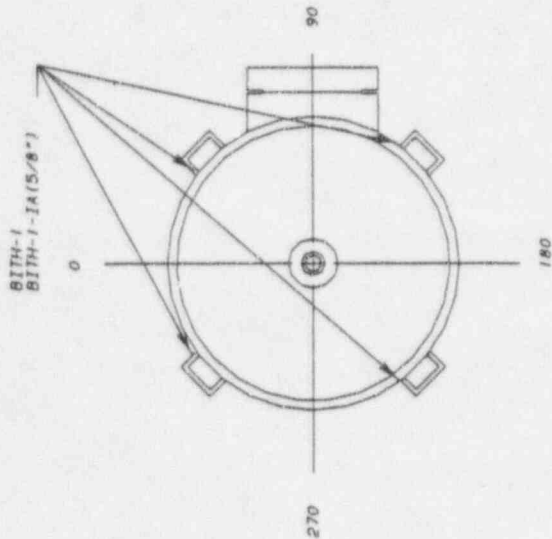
6

6	RPG	ACA	WSD	BYW	2/22/96
SUPERSEDED BY ISI-0074-C					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT UNIT 2 CENTRIFUGAL CHARGING PUMP TANK (FORMERLY BORON INJECTION TANK)					
DRAWN KEV		DATE 7-23-82		SCALE NOT TO SCALE	
CHECKED EDC		APPROVED GLB		CAD MAINTAINED DRAWING	REV
SUBMITTED EDC		ISI-0074-A-01			
					06

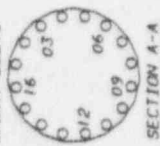
REFERENCE DRAWINGS

113E275
 NAVCO A-7496
 NAVCO A-7497
 MATERIAL SPECIFICATIONS
 SHELL AND HEAD
 SA516 GR 70
 SA240 TP 304L CLADDING
 NOZZLES
 SA350 FL 2
 FITTINGS
 SA 403 WP 316
 6" SCH 160

ASME CC-2 (EQUIVALENT)



MANWAY BOLTS



LOCATION 01-16
 BITH-XX

6"x4" REDUCER (TYP)
 SEE ISI-0431-C-16

BIT-2

2" MIN THK (TYP)

BIT-3

4.157" MIN THK

VESSEL INSIDE SURFACE CLAD 0.125" MIN

BIT-4

BIT-5

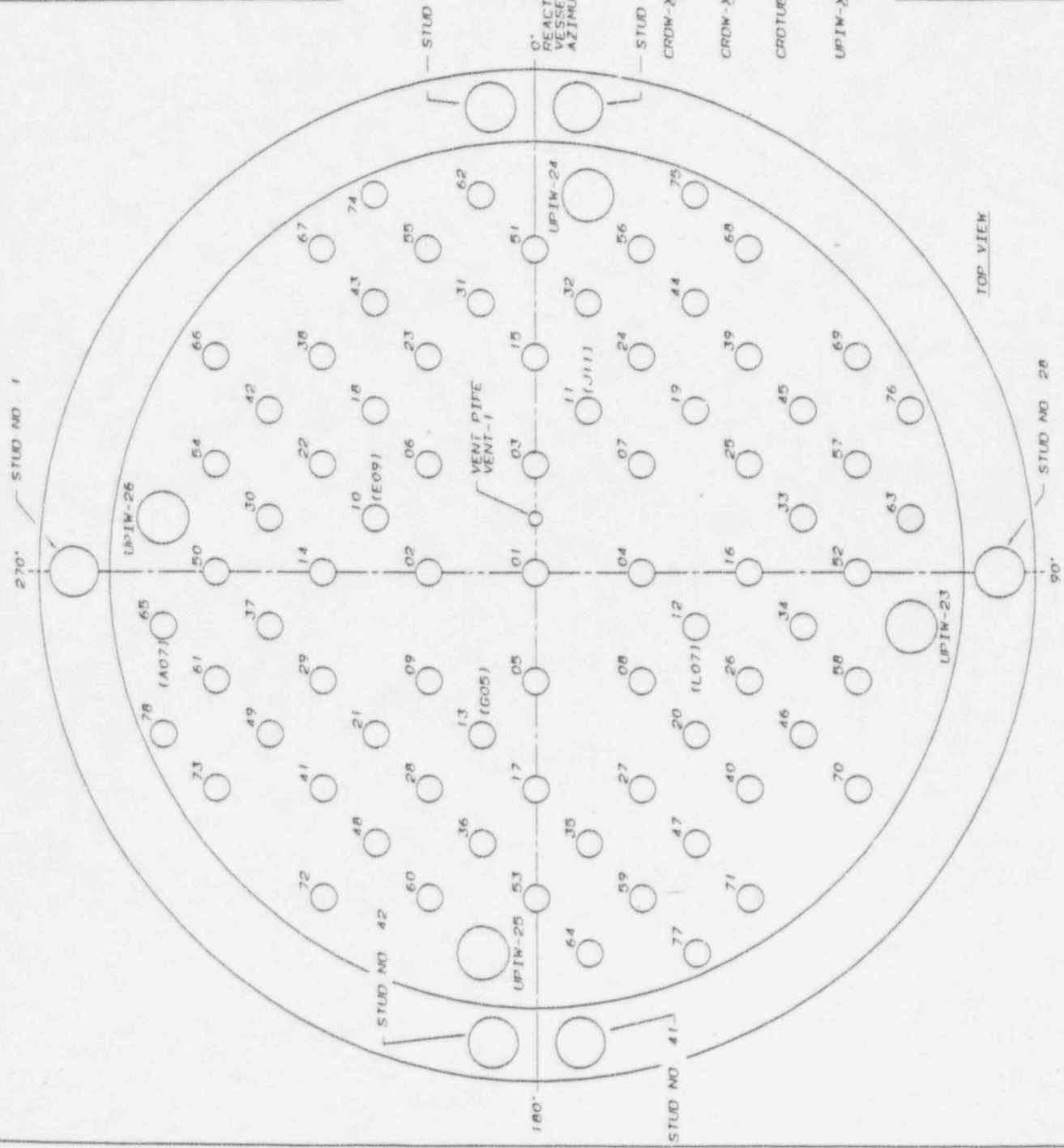
SEE ISI-0431-C-16

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEDOYAH NUCLEAR PLANT					
CENTRIFUGAL CHARGING PUMP TANK					
FORMERLY BORDEN INJECTION TANK					
DRAWN	RPG	DATE	2/22/86	SCALE	NOT TO SCALE
CHECKED	STW	APPROVED	STW	CAD	MAINTAINED DRAWING
SUBMITTED	STW	ISI	0074-C-01		00

REFERENCE DRAWINGS
30616-1061
WESTINGHOUSE LETTER A27840123022
WESTINGHOUSE DRAWING 666J506

NOTES:

1. ALL CROW NUMBERS ARE PRECEDED BY CROW FOR THE WELD NUMBERS
2. SHEET 2
3. TO OBTAIN THE PENETRATION NUMBER PRECEDE THE CROW NUMBER WITH P. FOR THE UPPERHEAD INJECTION STAND PIPES TAKE THE WELD NUMBER AND SUFFIX IT WITH P. EXAMPLES CROW-55P AND UPIN-25P
4. THE REACTOR VESSEL 0" IS 180° OUT OF PHASE FROM THE REACTOR BUILDING 0



TOP VIEW

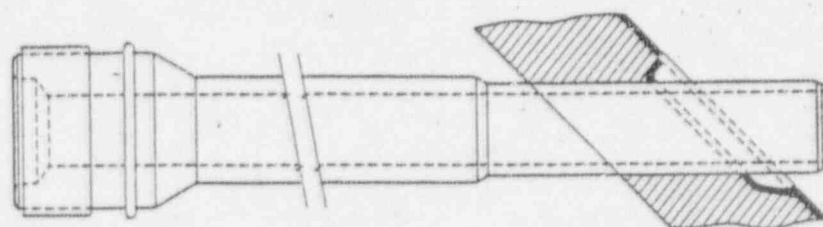
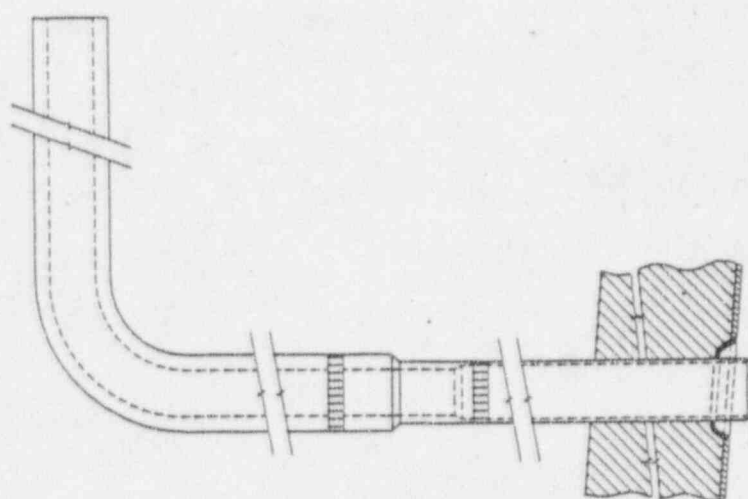
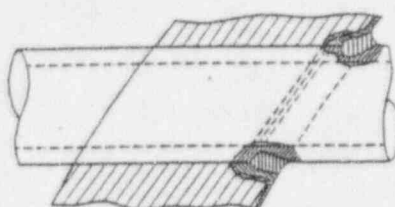
STUD NO. 14 FLEXURES
HOUSING PLATE
UPPER GUIDE TUBE ENCLOSURE
CONTROL ROD DRIVE TUBE FLEXURES
STUD NO. 15
CROW-XX
CROW-XX/P
CROW-REFLEX-XXX
UPIN-XX/P
CROW NO. 1-78 (SEE DWG ISI-0300-C FOR DETAIL)
CROW NO. 1-78 (SEE DWG ISI-0300-C FOR DETAIL)
CROW-REFLEX-XXX
VESSEL COORDINATES (A07, E09, G05, J11, L07) (AUGMENTED EXAM)
UPIN-23, 24, 25, OR 26 (SEE DWG ISI-0318-C FOR DETAIL)

5	REV	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100			

SEOUYAH NUCLEAR PLANT
UNIT 2
REACTOR COOLANT SYSTEM
WELD LOCATIONS

DESIGNED BY	DATE	4-20-83	SCALE	NOT TO SCALE
CHECKED BY	DATE	4-20-83	SCALE	NOT TO SCALE
SUBMITTED BY	DATE	4-20-83	SCALE	NOT TO SCALE

ISI-0097-C-01 05

[illegible]

THIS DRAWING SUPERSEDED BY ISI-0463-C



1	RPG	204	WJS	YJW	2/22/96
SUPERSEDED BY ISI-0463-C PER FCDT 96-06					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT UNIT 2 CONTAINMENT SPRAY HEAT EXCHANGER SHELL SIDE SUPPORT					
DRAWN RPG		DATE 10-14-87		SCALE NOT TO SCALE	
CHECKED MRA		APPROVED GLB		CAD MAINTAINED DRAWING	REV
SUBMITTED CE		ISI-0259-A-01			01

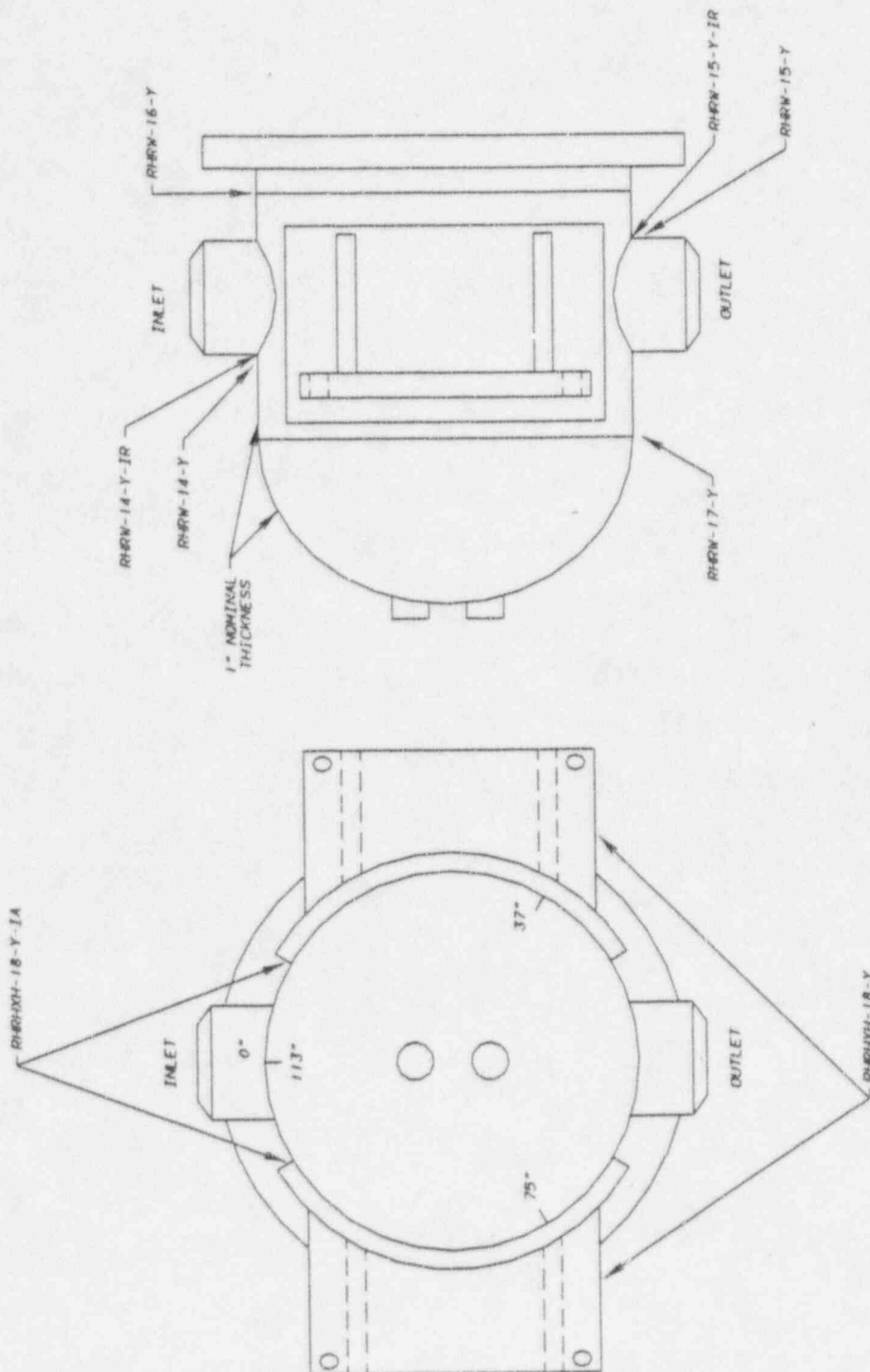
THIS DRAWING SUPERSEDED BY ISI-0289-C

△

4	RPG	8rb	WSD	YH	2/22/96
SUPERSEDED BY ISI-0289-C					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT UNIT 2					
RESIDUAL HEAT REMOVAL HEAT EXCHANGER CHANNEL WELDS AND SUPPORTS					
DRAWN RPG		DATE 9-7-88		SCALE NOT TO SCALE	
CHECKED MRA		APPROVED GLB		CAD MAINTAINED DRAWING REV	
SUBMITTED KEC		ISI-0289-A-01			04

ASME CC-2 (EQUIVALENT)

NOTE FOR UNIT 1 DWG SEE CHN-2404-A



RHRHXX OR RHRN-XX-Y
WELD/TO SUPPORT
A OR B HIC

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 2					
RESIDUAL HEAT REMOVAL HEAT EXCHANGER					
CHANNEL WELDS AND SUPPORT					
DRAWN	WJS				DATE 2/23/94
CHECKED	B.L.				SCALE NOT TO SCALE
APPROVED					APPROVED BY (CAND. MAINTAINED DRAWING) REV
SUBMITTED					15-0283-C-01
					100

REFERENCE DRAWINGS
WESTINGHOUSE REACTOR PRESSURE VESSEL MANUAL
CONTRACT NO. 68C60-91934 (N2M-2-3)
RV MANUAL 30616-1036 (FIG. 7.8)
ASME CC-1 (EQUIVALENT)

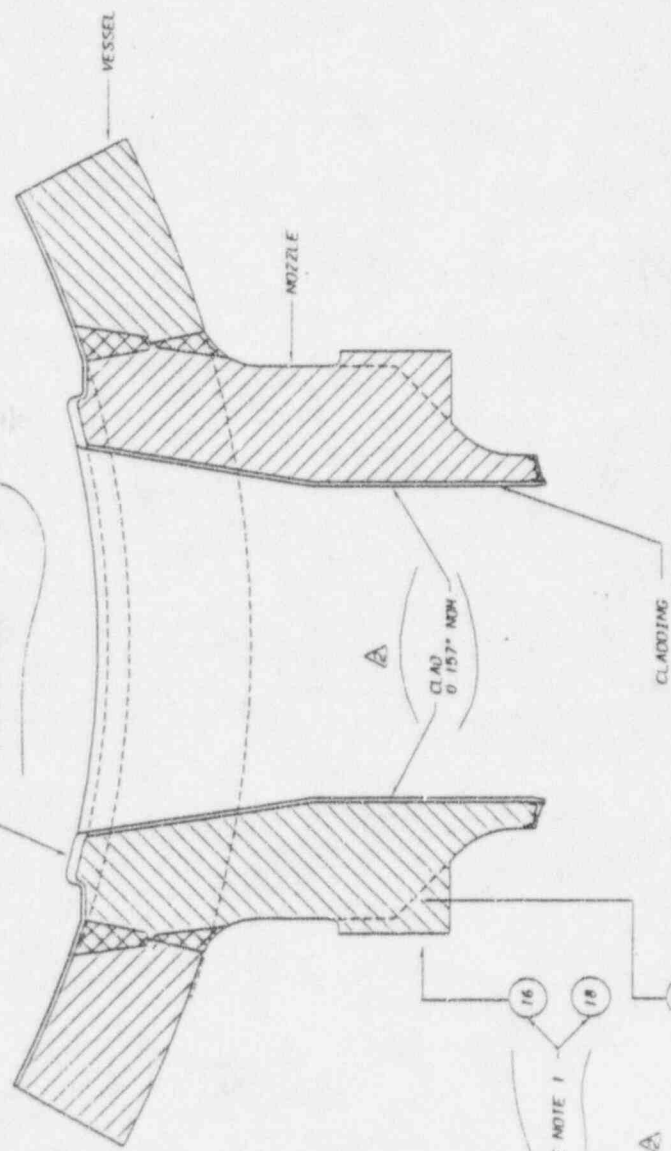
NOTES

- 1 SUPPORT PAD ONLY ON NOZZLES 16 & 18
SEE ISI-0298-C-04 FOR SUPPORT
- 2 FOR UNIT 1 DWG SEE CHN-2361-C

OUTLET NOZZLES

INTEGRAL EXTENSION
CLAD THICKNESS 0.70" NOM

SEE NOTE 1
16 18
15 17



DATE	12/16/83
BY	WJA
CHECKED	WJA
SUBMITTED	WJA
APPROVED	WJA
DATE	3/13/84
BY	WJA
CHECKED	WJA
SUBMITTED	WJA
APPROVED	WJA
DATE	12/16/83
BY	WJA
CHECKED	WJA
SUBMITTED	WJA
APPROVED	WJA
DATE	3/13/84
BY	WJA
CHECKED	WJA
SUBMITTED	WJA
APPROVED	WJA

TENNESSEE VALLEY AUTHORITY

SECOYAH NUCLEAR PLANT

UNIT 2

REACTOR VESSEL

OUTLET NOZZLES

ISI-0297-C-01

02

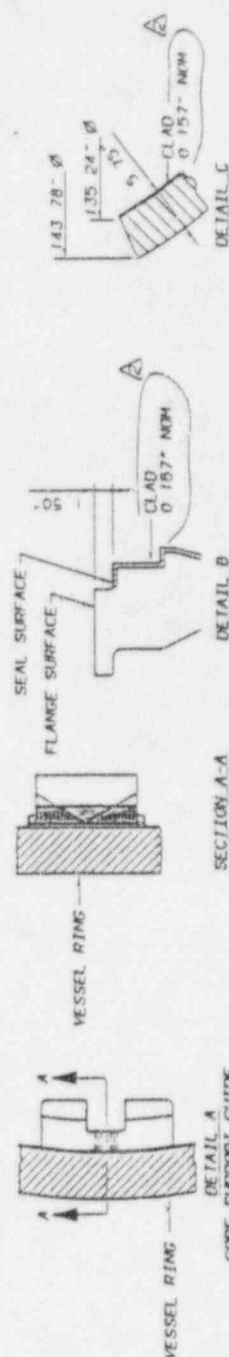
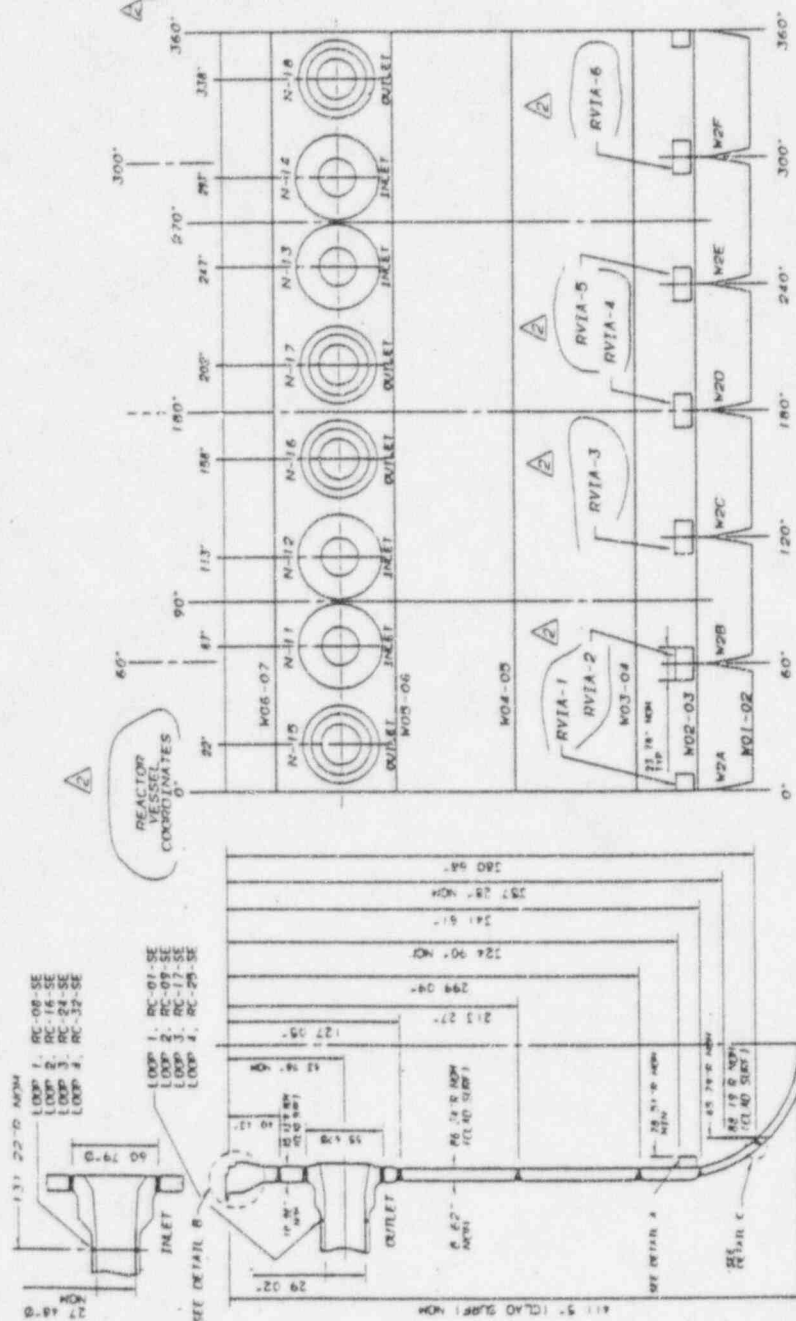
RV MAXIMAL CENTRAL 7 MD	8000-0-81034	10094-2-31
CMG NOS		
30618-1046	(FIG 7 14)	30618-1050 (FIG 7 19)
30618-1052	(FIG 7 17)	30618-1062 (FIG 7 21)
30618-1035	(FIG 7 7)	30618-1026 (FIG 7 8)
FIG 7 25, FIG 7 26		
MEMORANDUM L29	91044 800	

NOTES

1 WELD LOCATIONS DIMENSIONS ARE TO WELD 1

2 REACTOR VESSEL NOZZLE TO SAFE END TO PIPE
WELD JOINTS ARE SHOWN IN RC MAIN LOOP DNG
SECTION 8B THESE ARE CLASSIFIED AS ASME
SECTION VIII EXAM CATEGORY B-F PIPE WELDS
RC-011 THE EXAMINATION OF THESE
WELDS IS INCLUDED IN THE EXAMINATION OF
THE NOZZLE SAFE END WELDS

3 REACTOR VESSEL NOZZLE TO SAFE END WELD
TO S SHOWN ON THIS DNG ARE ASME SECTION
XI EXAM CATEGORY B-F BUTTERED DISJUNCT
METAL WELDS (1. RC-01 SE)



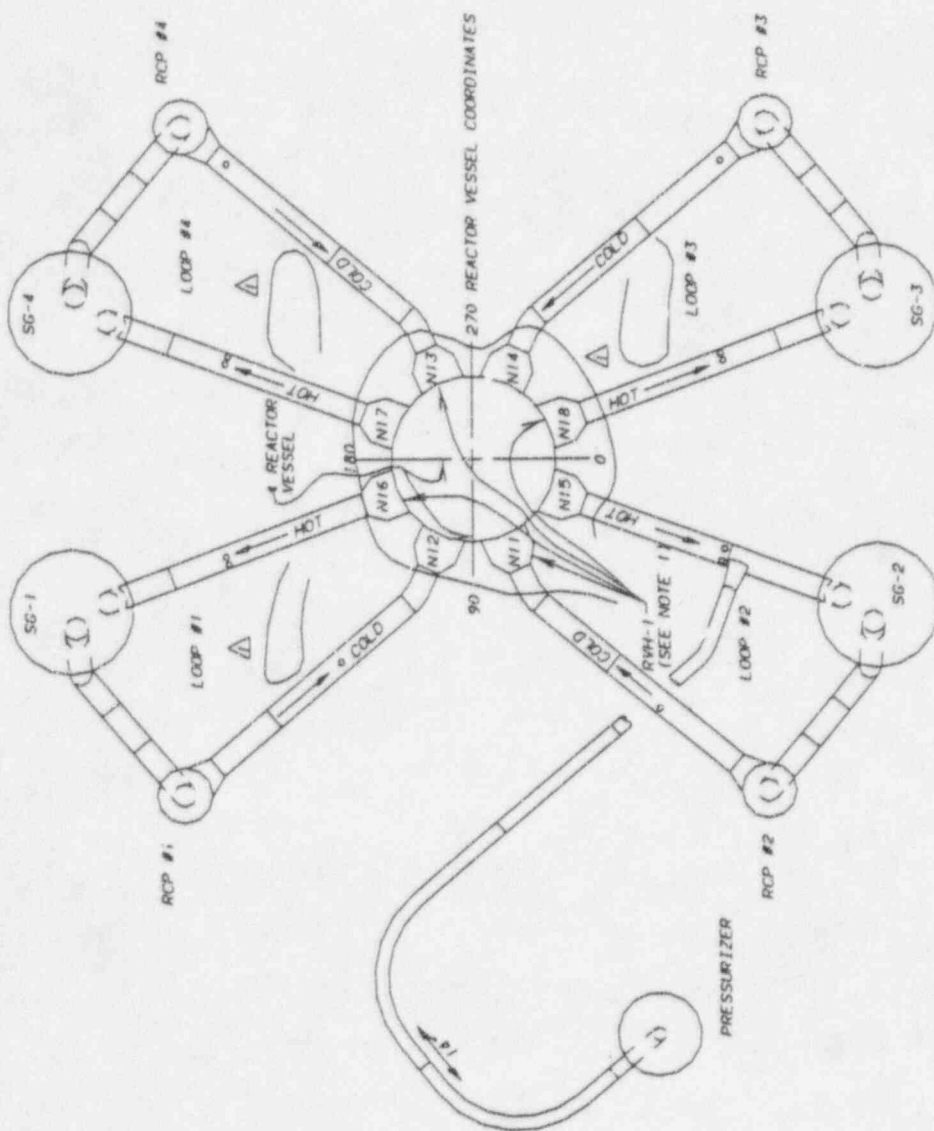
2	ONE	10-3	11-14-53
CHARGE SIZE AND NAMED FROM R TO C SIZE CHARGE SIZE AND NUMBER OF PARTS AND THIS IS THE SECTION NAME. CONTINUATION			
REV	DATE	BY	APP
1	11-14-53	11/14	AND
2	12-2-53		
3	12-2-53		
4	12-2-53		
5	12-2-53		
6	12-2-53		
7	12-2-53		
8	12-2-53		
9	12-2-53		
10	12-2-53		
11	12-2-53		
12	12-2-53		
13	12-2-53		
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93	12-2-53		
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97	12-2-53		
98	12-2-53		
99	12-2-53		
100	12-2-53		

REFERENCE DRAWINGS

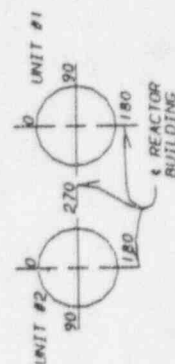
48N420
ASME CC-1 (EQUIVALENT)

NOTE

- SUPPORT CLASSIFIED AS A RIGID SUPPORT
SEE DRAWING 48N420 FOR CONFIGURATION

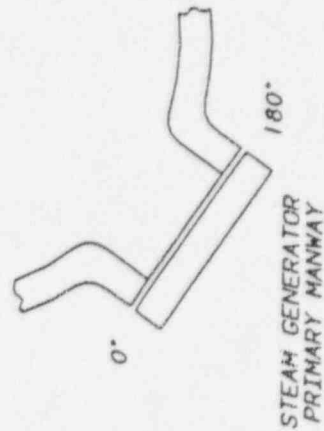
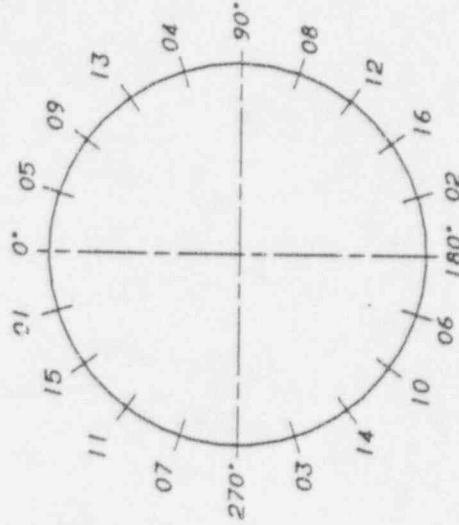
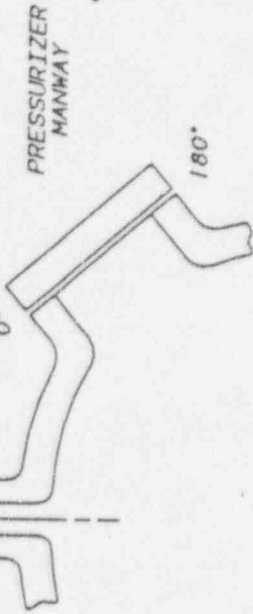


REACTOR BUILDING
LOWER CONTAINMENT



1	APC	814	2/23/92
2	CHANGE	MULTIPLE SUPPORT	TO 5 TO 1 TO PER FCIT RS-01
REV	BY	CHECKED	SUBMITTED
		APPROVED	DATE
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 2			
REACTOR VESSEL			
SUPPORT LOCATIONS			
DRAWN	APC	DATE	12-18-95
CHECKED	JCE	APPROVED	GLV
SUBMITTED	PRS	SCALE	NOT TO SCALE
		CAD	MAINTAINED DRAWING
		ISI	0298-C-04
			01

ASME CC-1 (EQUIVALENT)



A

NOTES:

2) FOR UNIT 1 DWG SEE MSG-0002-B

SG ID MWC-2-X-YY-Z
UNIT #
STM GEN # (1-4)
BOLTING # (01-16)
HOT OR COLD LEG (H/C)

PZR ID 2-MWC-YY
UNIT #
BOLTING # (01-16)

2	APG 12/10/91	DELETE NOTE 1, REMOVE CAD BLY DELETE CLADDING PATCHES FROM TITLE	APG JLG
1	APG 3-17-89	CHANGED WORD ROL T TO BOLTING	MRA REC EDC
REV	BY	DATE	DESCRIPTION
HARDWARE: IBM 5085		SOFTWARE: CADMAN	USER: JSLC
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT			
UNIT 2			
PRESSURIZER AND STEAM GENERATOR			
MANWAY BOLTING			
DRAWN: RJC	SUBMITTED	APPROVED	SCALE NTS
DATE: 3-9-88	DATE: 3-17-88	DATE: 3-17-88	SHEET 1 OF 1 SHEET(S)
CHECKED: MRA	REC	MRE	DRAWING NO.
DATE: 3-17-88			REV
			ISI-0299-B
			02

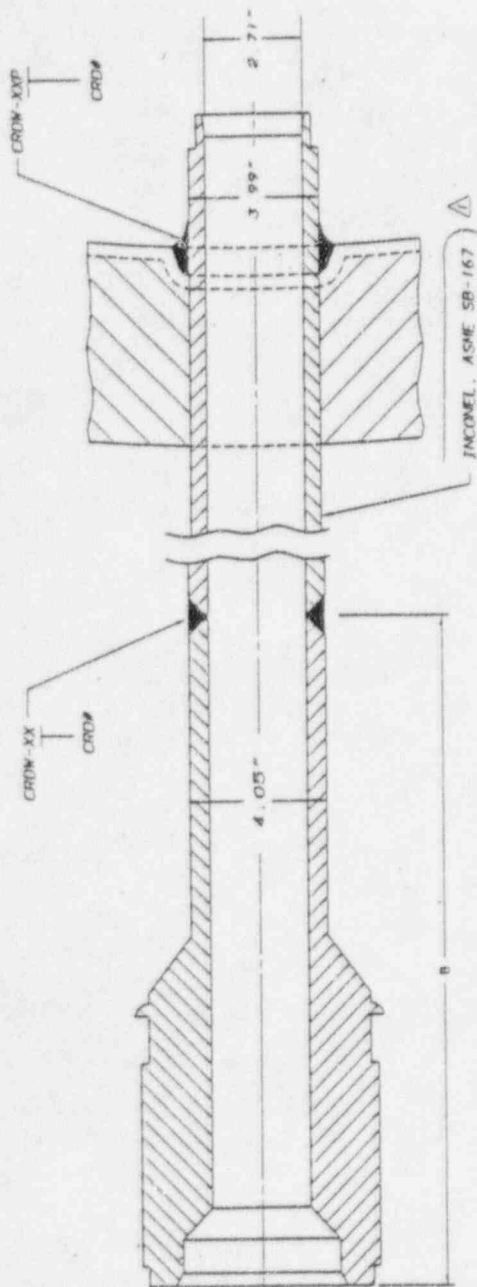
REFERENCE DRAWINGS

30516-1041

MATERIAL SPECIFICATIONS
6" O.D. ADAPTER, SA-182, 304SS
4" O.D. BODY, SB-167 INCONEL
ASME CC-1 (EQUIVALENT)

NOTES

1. FOR UNIT 1 DRG SEE CMI-2359-C
2. DIMENSIONS ARE FOR INFORMATION ONLY



LIST OF CONTROL ROD DRIVE HOUSINGS		
C.R.D. NO.	NUMBER	B
01-09	9	9.05
10-13	4	9.57
14-17	4	12.20
18-21	4	13.07
22-29	8	14.02
30-37	8	16.81
38-41	4	19.69
42-49	8	20.67
50-53	4	21.69
54-61	8	23.74
62-65	4	27.17
66-73	8	28.31
74-78	5	31.50
TOTAL		78

FOR LOCATIONS SEE DRAWINGS
ISI-0097-C

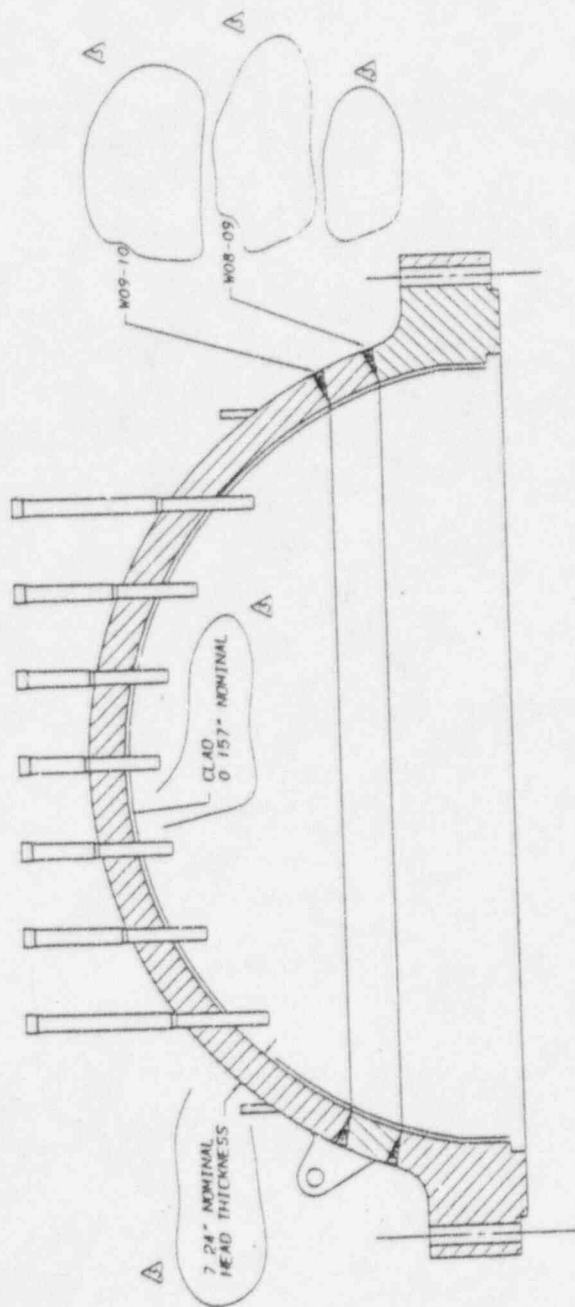
REV	BY	DATE	CHKD	DATE	APP'D	DATE
1	WJ	11-14-13	WJ	11-14-13	WJ	11-14-13
CHANGE THIS AND SIZE FROM 3 TO 4 AND SHEET 2 TO SHEET 1						
AND MATERIAL, DITS AND NOTES, A RE-USE SHEET 2 TO SHEET 1						
Tennessee Valley Authority						
SEDOYAH NUCLEAR PLANT						
UNIT 2						
CONTROL ROD DRIVE HOUSING						
DESIGN	DATE	3-15-84	SCALE	NOT TO SCALE		
CHECKED	DATE	3-15-84	APP'D	DATE	DATE	DATE
SUBMITTED	DATE	3-15-84	ISI-0300-C-01			

THE CLOSURE HEAD RING IS FABRICATED OF CLASS 2 MANGANESE-HOLYBDEUM A-508. THE CLOSURE HEAD HEMISPHERICAL SECTION IS FABRICATED OF A-533, GR. B. CLASS 1 MANGANESE-HOLYBDEUM STEEL. BOTH SECTIONS ARE CLAD WITH WELD COMPATIBLE AUSTENITIC STAINLESS STEEL.

THE CLOSURE HEAD FLANGE SECTION IS
FABRICATED OF A-508, CLASS 2, MANGANESE
MOLYBDENUM STEEL AND IS CLAD INTERNALLY
AND ON THE GASKET FACE WITH WELD
DEPOSITED AUSTENITIC STAINLESS STEEL

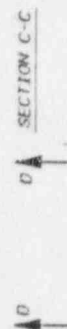
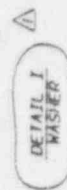
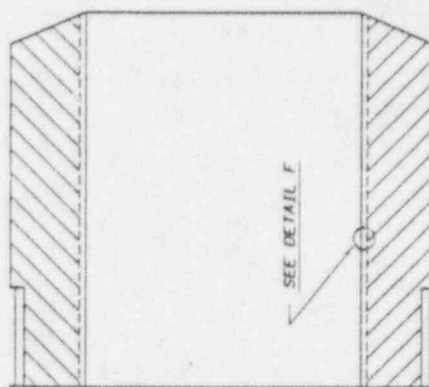
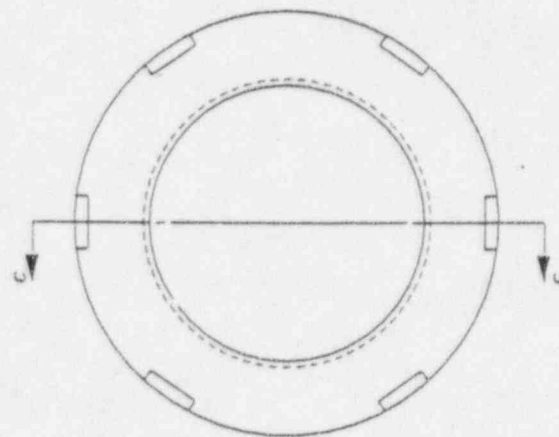
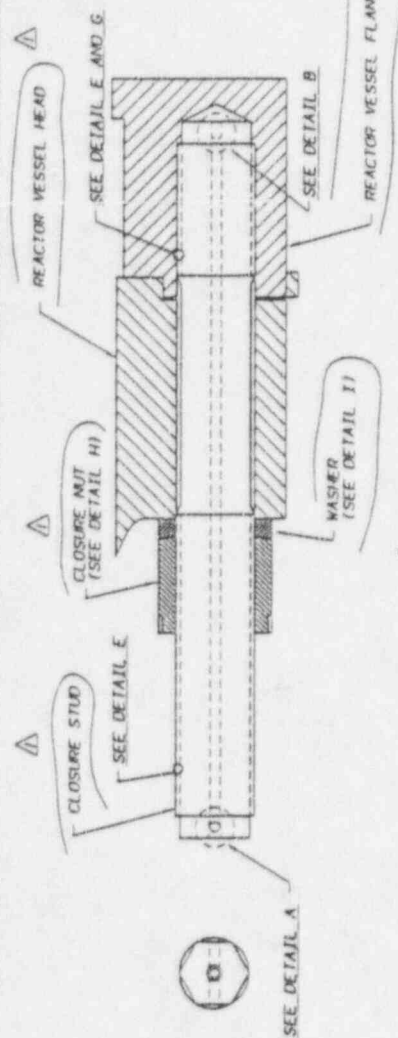
ASME CC-1 (EQUIVALENT)

1. FOR UNIT 1 DWG SEE CHN-2358-C)
2. REFER TO DRAWINGS ISI-0008-C, SH 1
AND ISI-0304-C, SH 1 FOR 0' LOCATION



3	REC	313	DATE	12-20-52
2	REC	313	DATE	12-20-52
1	REC	313	DATE	12-20-52
4	REC	313	DATE	12-20-52
5	REC	313	DATE	12-20-52
6	REC	313	DATE	12-20-52
7	REC	313	DATE	12-20-52
8	REC	313	DATE	12-20-52
9	REC	313	DATE	12-20-52
10	REC	313	DATE	12-20-52
11	REC	313	DATE	12-20-52
12	REC	313	DATE	12-20-52
13	REC	313	DATE	12-20-52
14	REC	313	DATE	12-20-52
15	REC	313	DATE	12-20-52
16	REC	313	DATE	12-20-52
17	REC	313	DATE	12-20-52
18	REC	313	DATE	12-20-52
19	REC	313	DATE	12-20-52
20	REC	313	DATE	12-20-52
21	REC	313	DATE	12-20-52
22	REC	313	DATE	12-20-52
23	REC	313	DATE	12-20-52
24	REC	313	DATE	12-20-52
25	REC	313	DATE	12-20-52
26	REC	313	DATE	12-20-52
27	REC	313	DATE	12-20-52
28	REC	313	DATE	12-20-52
29	REC	313	DATE	12-20-52
30	REC	313	DATE	12-20-52
31	REC	313	DATE	12-20-52
32	REC	313	DATE	12-20-52
33	REC	313	DATE	12-20-52
34	REC	313	DATE	12-20-52
35	REC	313	DATE	12-20-52
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37	REC	313	DATE	12-20-52
38	REC	313	DATE	12-20-52
39	REC	313	DATE	12-20-52
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41	REC	313	DATE	12-20-52
42	REC	313	DATE	12-20-52
43	REC	313	DATE	12-20-52
44	REC	313	DATE	12-20-52
45	REC	313	DATE	12-20-52
46	REC	313	DATE	12-20-52
47	REC	313	DATE	12-20-52
48	REC	313	DATE	12-20-52
49	REC	313	DATE	12-20-52
50	REC	313	DATE	12-20-52
51	REC	313	DATE	12-20-52
52	REC	313	DATE	12-20-52
53	REC	313	DATE	12-20-52
54	REC	313	DATE	12-20-52
55	REC	313	DATE	12-20-52
56	REC	313	DATE	12-20-52
57	REC	313	DATE	12-20-52
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64	REC	313	DATE	12-20-52
65	REC	313	DATE	12-20-52
66	REC	313	DATE	12-20-52
67	REC	313	DATE	12-20-52
68	REC	313	DATE	12-20-52
69	REC	313	DATE	12-20-52
70	REC	313	DATE	12-20-52
71	REC	313	DATE	12-20-52
72	REC	313	DATE	12-20-52
73	REC	313	DATE	12-20-52
74	REC	313	DATE	12-20-52
75	REC	313	DATE	12-20-52
76	REC	313	DATE	12-20-52
77	REC	313	DATE	12-20-52
78	REC	313	DATE	12-20-52
79	REC	313	DATE	12-20-5

ASME CC-1 (EQUIVALENT)



VIEW D-D

FOR NOTES SEE SH 1

1	REV	1-2-78	1-2-78	12-2-78
CHANGE ENG NO 1 AND SITE				
NOTES & ADD CC 1 & 2				
REV	BY	DATE	APPROVED	DATE
1	BY	1-2-78	1-2-78	12-2-78
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
REACTOR VESSEL STUD LOCATIONS				
AND DETAILS				
DESIGN	REV	DATE	APPROVED	SCALE
CHECKED	1-2-78	1-2-78	1-2-78	1-2-78
SCALE NOT TO SCALE				
AND UNIFORMED DRAWING				
1-2-78				

REFERENCE DRAWINGS

WESTINGHOUSE DWG 1682F82

NOTES:

1. THIS IS FOR AUGMENTED EXAM

2. LIST OF AVAILABLE RCP S/N'S:

1S-81P351	1S-81P352	1S-88P719
2S-81P351	2S-81P352	
3S-81P351	3S-81P352	
4S-81P351	4S-81P352	

3. RCP FLYWHEELS MAY BE INSTALLED IN EITHER UNIT 1 OR UNIT 2, OR MAY EXIST AS A SPARE

RCP MOTOR S/N-SUR (i.e., 4S-81P352-SUR)
RCP MOTOR S/N-VOL (i.e., 4S-81P352-VOL)

RCP MOTOR S/N-BOREKEY
(i.e., 4S-81P352-BOREKEY)

1	RPG	12/1/91	CHANGE IDENTIFIERS, ADD NOTES 2&3, & REMOVED CAD BLOCK	AKB	JCG	APP
REV	BY	DATE	DESCRIPTION	CHK'D	SUB	APP
HARDWARE: IBH 3085		SOFTWARE: CADAM		USER: ISI/CHP		
TENNESSEE VALLEY AUTHORITY						
SEQUOYAH NUCLEAR PLANT						
UNIT 2						
REACTOR COOLANT PUMP MOTOR						
FLYWHEEL EXAMINATION						
DRAWN: RPG		SUBMITTED		APPROVED		SCALE NTS
DATE: 3-25-88		DATE: 5-31-88		DATE: 5-31-88		SHEET 1 OF 1 SHEET(S)
CHECKED: MRA		JCG		GLB		DRAWING NO.
DATE: 5-31-88						REV. 01

MATERIAL SPECIFICATIONS

THE MAIN FLANGE BOLTS ARE FABRICATED OF 4340 STEEL, HEAT TREATED TO A-540, GR 24

ASME LL-1 (EQUIVALENT)

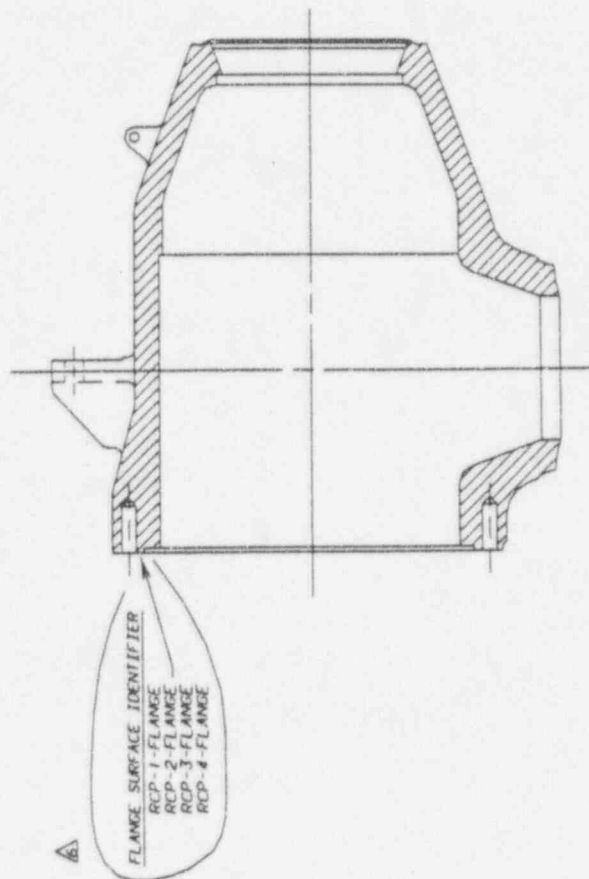
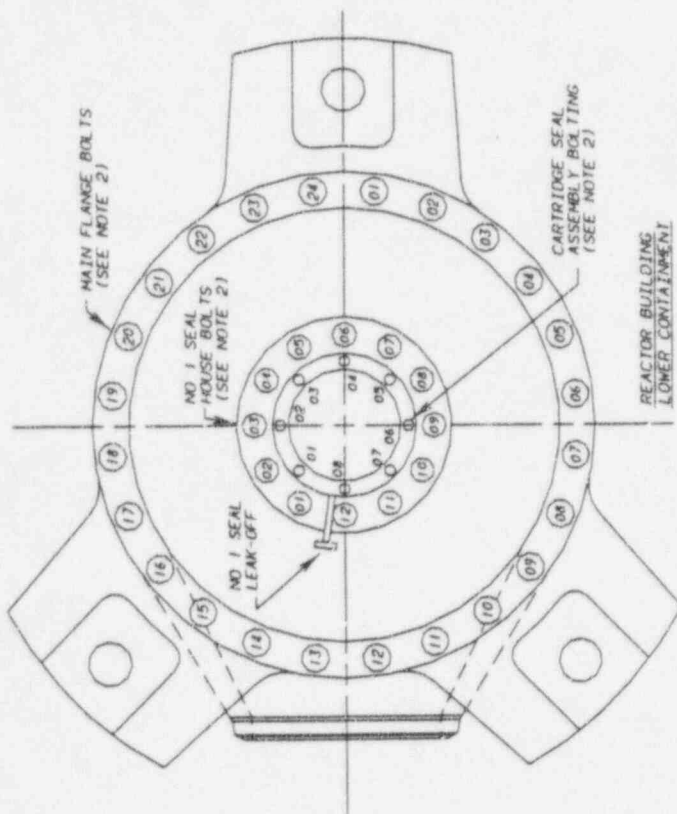
NOTES

- 1 FOR UNIT 1 DWG SEE CHN-2675-C
- 2 CARTRIDGE SEAL ASSEMBLY BOLTING IS 1.5 IN. CLASS 1 NUMBER 1 SEAL HOUSE BOLTS ARE 2 IN. MAIN FLANGE BOLTS ARE 4.5 IN.
- 3 EXAMINATION OF BASE MATERIAL TRANSITION (RCP38M-2RC-023) ADJACENT TO WELD NUMBER 2RC-023 ON REACTOR COOLANT PUMP NUMBER 3 COLD LEG WAS AUGMENTED EXAMINED DURING THE FIRST INSPECTION INTERVAL IN ACCORDANCE WITH 2-SI-SXI-000-114.0.

BOLTING IDENTIFIER

RCP2MFLT-XX (NO. 1 SEAL HOUSE BOLT)
RCP2SLBLT-YY (NO. 1 SEAL HOUSE BOLT)
RCP2CSABL-T-WW (CARTRIDGE SEAL BOLT)

WW REPRESENTS LOCATION 01-08
XX REPRESENTS LOCATION 01-24
YY REPRESENTS LOCATION 01-12
Z REPRESENTS PUMP NO (1-4)



CASING THICKNESS AND INTERIOR IDENTIFIER

RCP-1-CASING
RCP-2-CASING
RCP-3-CASING
RCP-4-CASING

4	RPG	116	W38	116	2/22/82
5	RPG	116	W38	116	2/22/82
6	RPG	116	W38	116	2/22/82
7	RPG	116	W38	116	2/22/82
8	RPG	116	W38	116	2/22/82
9	RPG	116	W38	116	2/22/82
10	RPG	116	W38	116	2/22/82
11	RPG	116	W38	116	2/22/82
12	RPG	116	W38	116	2/22/82
13	RPG	116	W38	116	2/22/82
14	RPG	116	W38	116	2/22/82
15	RPG	116	W38	116	2/22/82
16	RPG	116	W38	116	2/22/82
17	RPG	116	W38	116	2/22/82
18	RPG	116	W38	116	2/22/82
19	RPG	116	W38	116	2/22/82
20	RPG	116	W38	116	2/22/82
21	RPG	116	W38	116	2/22/82
22	RPG	116	W38	116	2/22/82
23	RPG	116	W38	116	2/22/82
24	RPG	116	W38	116	2/22/82
25	RPG	116	W38	116	2/22/82
26	RPG	116	W38	116	2/22/82
27	RPG	116	W38	116	2/22/82
28	RPG	116	W38	116	2/22/82
29	RPG	116	W38	116	2/22/82
30	RPG	116	W38	116	2/22/82
31	RPG	116	W38	116	2/22/82
32	RPG	116	W38	116	2/22/82
33	RPG	116	W38	116	2/22/82
34	RPG	116	W38	116	2/22/82
35	RPG	116	W38	116	2/22/82
36	RPG	116	W38	116	2/22/82
37	RPG	116	W38	116	2/22/82
38	RPG	116	W38	116	2/22/82
39	RPG	116	W38	116	2/22/82
40	RPG	116	W38	116	2/22/82
41	RPG	116	W38	116	2/22/82
42	RPG	116	W38	116	2/22/82
43	RPG	116	W38	116	2/22/82
44	RPG	116	W38	116	2/22/82
45	RPG	116	W38	116	2/22/82
46	RPG	116	W38	116	2/22/82
47	RPG	116	W38	116	2/22/82
48	RPG	116	W38	116	2/22/82
49	RPG	116	W38	116	2/22/82
50	RPG	116	W38	116	2/22/82
51	RPG	116	W38	116	2/22/82
52	RPG	116	W38	116	2/22/82
53	RPG	116	W38	116	2/22/82
54	RPG	116	W38	116	2/22/82
55	RPG	116	W38	116	2/22/82
56	RPG	116	W38	116	2/22/82
57	RPG	116	W38	116	2/22/82
58	RPG	116	W38	116	2/22/82
59	RPG	116	W38	116	2/22/82
60	RPG	116	W38	116	2/22/82
61	RPG	116	W38	116	2/22/82
62	RPG	116	W38	116	2/22/82
63	RPG	116	W38	116	2/22/82
64	RPG	116	W38	116	2/22/82
65	RPG	116	W38	116	2/22/82
66	RPG	116	W38	116	2/22/82
67	RPG	116	W38	116	2/22/82
68	RPG	116	W38	116	2/22/82
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70	RPG	116	W38	116	2/22/82
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73	RPG	116	W38	116	2/22/82
74	RPG	116	W38	116	2/22/82
75	RPG	116	W38	116	2/22/82
76	RPG	116	W38	116	2/22/82
77	RPG	116	W38	116	2/22/82
78	RPG	116	W38	116	2/22/82
79	RPG	116	W38	116	2/22/82
80	RPG	116	W38	116	2/22/82
81	RPG	116	W38	116	2/22/82
82	RPG	116	W38	116	2/22/82
83	RPG	116	W38	116	2/22/82
84	RPG	116	W38	116	2/22/82
85	RPG	116	W38	116	2/22/82
86	RPG	116	W38	116	2/22/82
87	RPG	116	W38	116	2/22/82
88	RPG	116	W38	116	2/22/82
89	RPG	116	W38	116	2/22/82
90	RPG	116	W38	116	2/22/82
91	RPG	116	W38	116	2/22/82
92	RPG	116	W38	116	2/22/82
93	RPG	116	W38	116	2/22/82
94	RPG	116	W38	116	2/22/82
95	RPG	116	W38	116	2/22/82
96	RPG	116	W38	116	2/22/82
97	RPG	116	W38	116	2/22/82
98	RPG	116	W38	116	2/22/82
99	RPG	116	W38	116	2/22/82
100	RPG	116	W38	116	2/22/82

SECOYAH NUCLEAR PLANT

UNIT 2

REACTOR COOLANT PUMP

MAIN FLANGE AND LOWER SEAL HOUSE BOLT PATTERN

DRAWN: RFG

CHECKED: GLB

APPROVED: GLB

SCALE: NOT TO SCALE

DATE: 4-14-88

ISI-0307-C-01

06

X

HP-2-XX

HEATER PENETRATION #

UNIT



ASME CC-1 (EQUIV. ENT)

X

Y

W

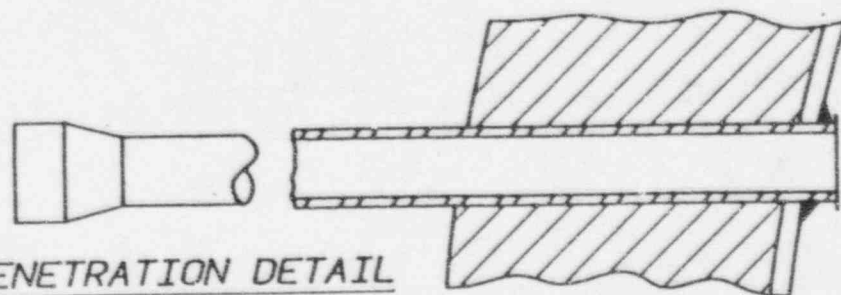
Z

BOTTOM VIEW

Z

NOTE: FOR UNIT 1 DWG
SEE MSG-0006-A

BOTTOM VIEW SHOWING HEATER LOCATIONS



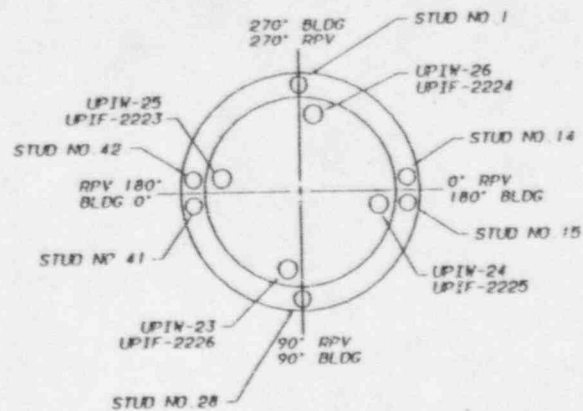
PENETRATION DETAIL

*--FOR ORIGINAL SIGNATURES AND PREVIOUS REV. INFO SEE "ORIGINAL".

REV.	0	0	
HARDWARE	IBM 5085	IBM 5085	
SOFTWARE	CADAM	CADAM	
FLOPPY OR TAPE	N/A	N/A	

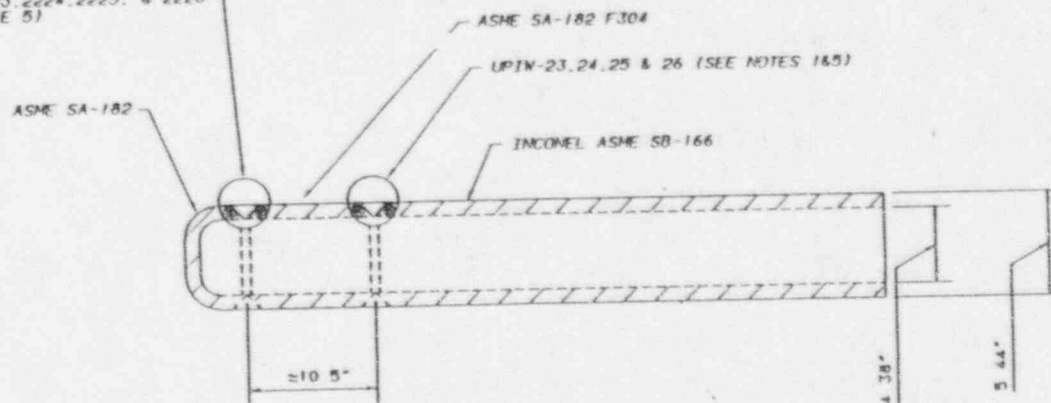
I	RPG	10-26-88	CHANGED IDENTIFIER	REC	APP
REV.	BY	DATE	DESCRIPTION	CK'D	SUB
TENNESSEE VALLEY AUTHORITY DIVISION OF NUCLEAR ENGINEERING					
SEQUOYAH NUCLEAR PLANT UNIT 2					
PRESSURIZER HEATER PENETRATIONS					
DRAWN: RPG		SUBMITTED		APPROVED	
DATE: 3-30-88		DATE: *		DATE: *	
CHECKED: *		DATE: *		DATE: *	
DRAWING NO. ISI-0309-A				REV. 01	

SHEET 1 OF 1 SHEET(S)



LOCATION ON CLOSURE HEAD (REF ISI-0097-C)

UPIF-2223, 2224, 2225, & 2226
(SEE NOTE 5)



REFERENCE DRAWINGS

2-RC-26
CONTRACT NO. 91934
DWG. NO. 1977 FIG. 7.28 UNIT 2 REACTOR
PRESSURE VESSEL INSTRUCTION MANUAL

MATERIAL SPECIFICATIONS

THE ADAPTERS CONSIST OF A SA-182,
304SS UPPER PORTION AND A SB-166
LOWER PORTION

NOTES

1. THESE DISSIMILAR METAL WELDS ARE BEING CLASSIFIED AS CATEGORY B-J
2. CAPS INSTALLED BY WESTINGHOUSE PER WP 2621-01 DURING CYCLE 4 OUTAGE
3. FOR UNIT 1 DWG SEE ISI-0014-C
4. FOR PENETRATION WELDS SEE DWG ISI-0097-C
5. WELDS UPIN-2223, 2224, 2225, 2226, UPIN-23, 24, 25, AND 26 ARE TO BE CLASSIFIED RCS SYSTEM FOR PRISM IDENTIFIERS
6. DIMENSIONS ARE FOR INFORMATION ONLY

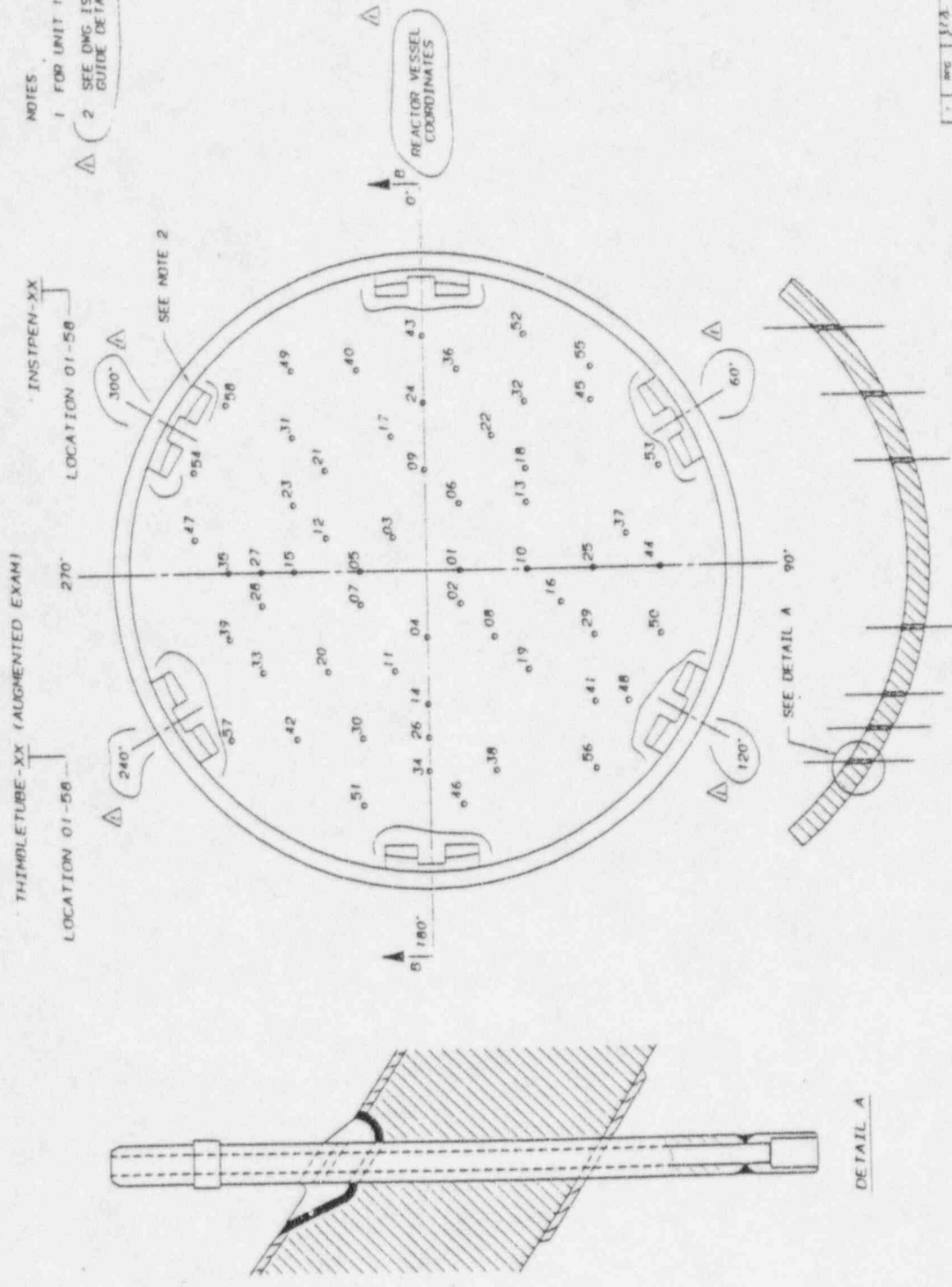
5	DWG	RCB	ISI	12-10-85	CHANGE NOTES
4	DWG	ETC	JCO	DLW	11-15-82
3	DWG	ETC	JES	DLW	7-15-81
2	DWG	ETC	JCO	DLB	1-4-81
1	DWG	ETC	JCO	DLB	1-4-81
ADD REFERENCE DRAWING 2-RC-26					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
AUXILIARY HEAD ADAPTER/UPH CAP (SEE NOTE 5)					
DRAWN	BYC	DATE	5-17-88	SCALE	NOT TO SCALE
CHECKED	MDA	APPROVED	DLB	CAD	MAINTAINED DRAWING
SUBMITTED	EE	ISI-0318-C-01			05

REFERENCE DRAWINGS
 30616-1052 (FIG 7 1)
 RV MANUAL 30616-1060 (FIG 7 2)

ASME CC-1 (EQUIVALENT)

NOTES

- 1 FOR UNIT 1 DMG SEE MSG-0004-C
- 2 SEE DMG ISI-0298-C FOR CORE SUPPORT GUIDE DETAIL

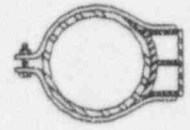
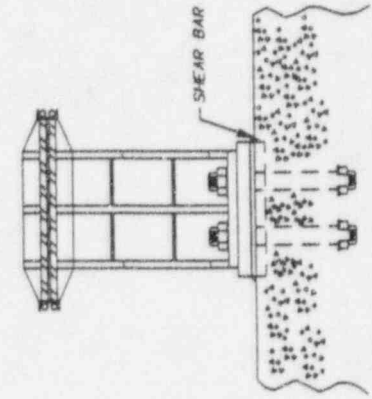
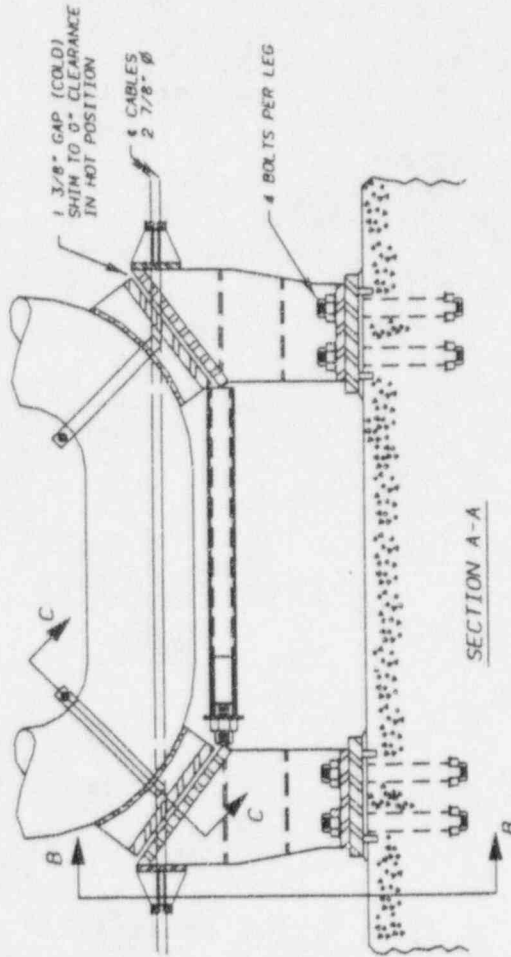
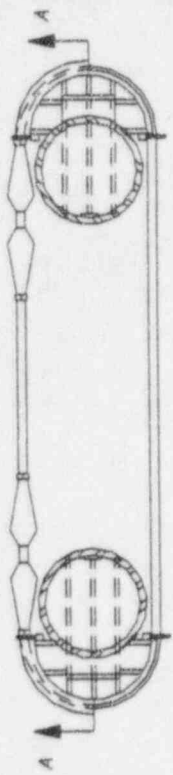


REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1	DMG	1/18	1/18	1/18	12-18-83
Tennessee Valley Authority					
SECOYAH NUCLEAR PLANT					
UNIT 2					
REACTOR VESSEL BOTTOM HEAD PENETRATIONS					
DESIGNED	BY	DATE	SCALE	100' TO 1" (1:100)	
1/18	DMG	1/18	1/18	1/18	
CHECKED	BY	DATE	SCALE	100' TO 1" (1:100)	
1/18	DMG	1/18	1/18	1/18	
SUBMITTED	BY	DATE	SCALE	100' TO 1" (1:100)	
1/18	DMG	1/18	1/18	1/18	

REFERENCE DRAWINGS

48N430
MEMORANDUM B4188031/8 300

ASME CC-1 (EQUIVALENT)



RCL-CLR-X (FUNCTION B SUPPORT)
LOOP #1-4

NOTE
EXAMINATION BOUNDARY INCLUDES
FROM TOP OF GROUT UP TO BUT NOT
INCLUDING THE RCS CROSSOVER PIPING

2	REV	ADD FUNCTION B TO SUPPORT PER FOOT 98-62	DATE	2/22/96
1	REV	JEC	DATE	12-18-95
1	REV	ADD REF. NEND. CHANGE DIM. AND SIZE FROM B TO C	DATE	
1	REV	BY	CHECKED	SUBMITTED
1	REV	BY	CHECKED	SUBMITTED

TENNESSEE VALLEY AUTHORITY			
SECOYAH NUCLEAR PLANT			
UNIT 2			
REACTOR COOLANT SYSTEM (MAIN PIPING)			
CROSSOVER LEG RESTRAINT			
DATE	8-27-88	SCALE	NOT TO SCALE
CHECKED	WBA	APPROVED	GLB
SUBMITTED	CE	DATE	12-18-95
ISI-0321-C-01			

SUPERSEDED BY ISI-0326-C-01

A

2	RPG	91A	250	140	2/22/96
THIS DWG SUPERSEDED BY ISI-0326-C-01					
1	RPG	87G	EDC	GLB	11-18-92
INCORPORATE FCDT 92-02					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
REACTOR COOLANT PUMP SUPPORT					
DRAWN	RPG	DATE	6-7-88	SCALE	NOT TO SCALE
CHECKED	MPA	APPROVED	GLB	CAD MAINTAINED	DRAWING
SUBMITTED	CE	ISI-0326-B-01		REV	02

REFERENCE DRAWINGS

48N421, 48N422, 48N423, 48N426, 48N433

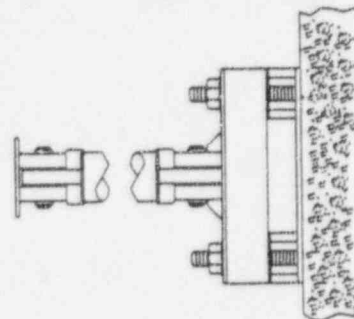
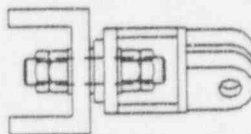
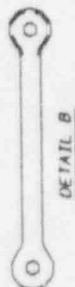
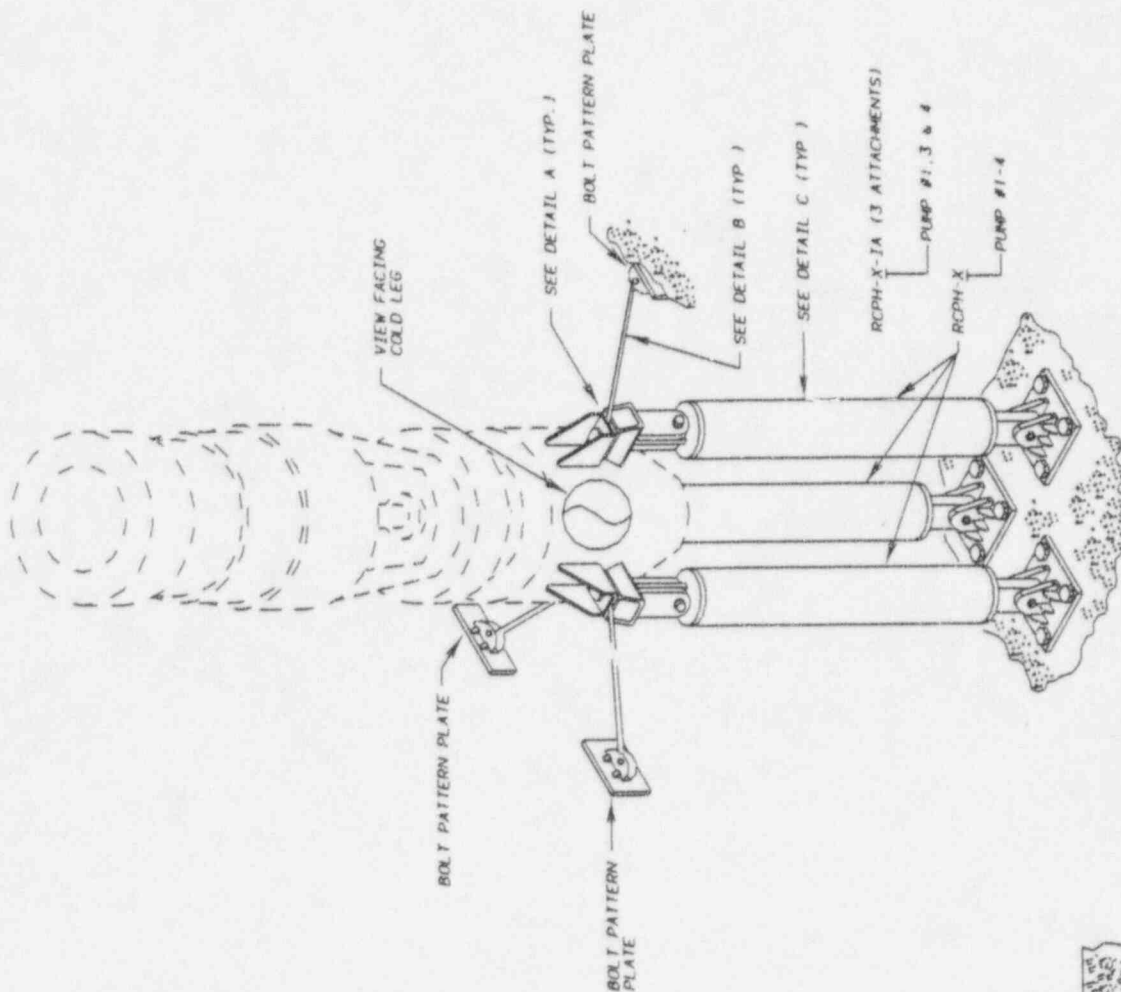
NOTE

- 1 REACTOR COOLANT PUMP #2 DOES NOT HAVE ANY WELDED PUMP FEET
- 2 THIS DWG SUPERCEDES ISI-0326-B-01

ASME CC-1 (EQUIVALENT)

NUMBER OF BOLTS FOR EACH FOOT AT THE BOLT PATTERN PLATE

BOLT NUMBER	FOOT 1	FOOT 2	FOOT 3
1	4	6	8
2	6	4	8
3	10	4	8
4	6	10	8



DETAIL C

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 2					
REACTOR COOLANT PUMP SUPPORT					
DRWING	NO.	DATE	2/21/86	SCALE	NOT TO SCALE
CHECKED	BY	APPROVED	BY	CAD	MAINTAINED
SUBMITTED	BY	ISI-0326-C-01	100		

REFERENCE DRAWINGS
47817-4

ASME CC-2 (EQUIVALENT)

NOTES

1. FOR UNIT 1 ENG SEE MSG-0005-A
2. DIMENSIONS ARE FOR INFORMATION ONLY

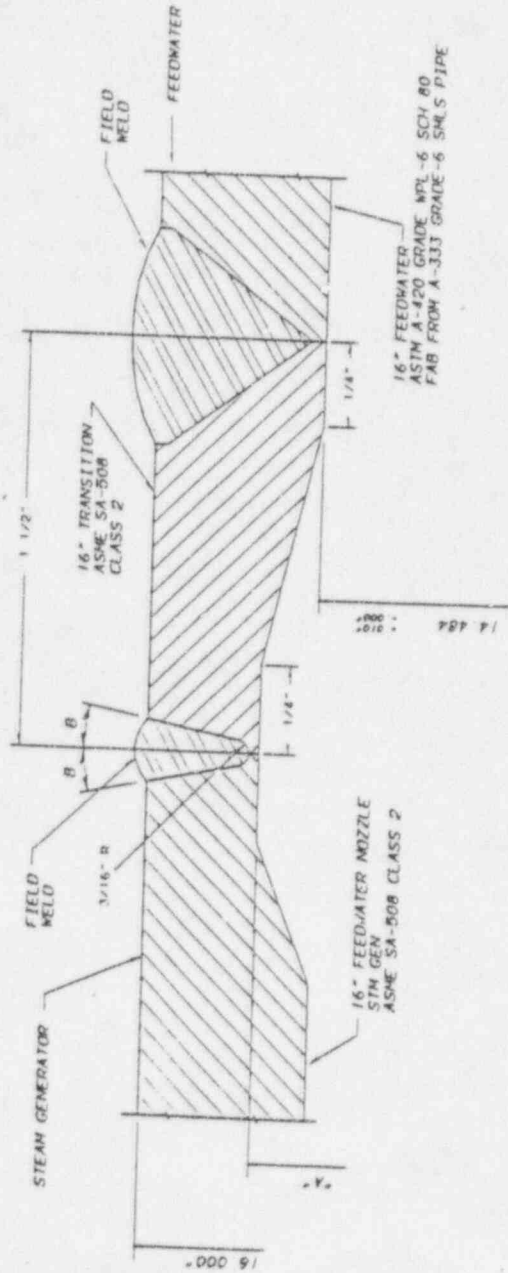
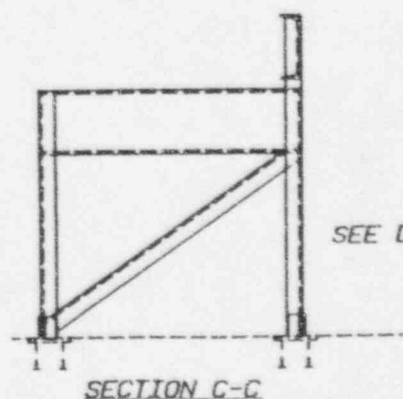
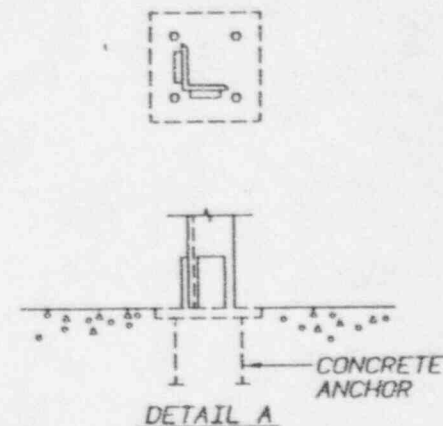
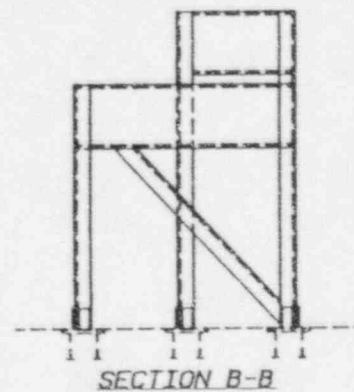
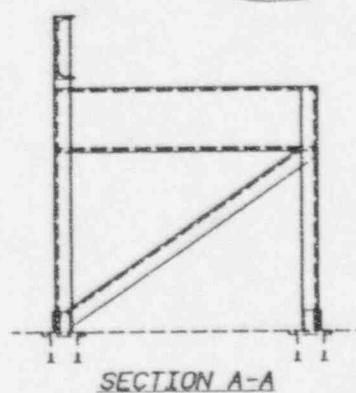
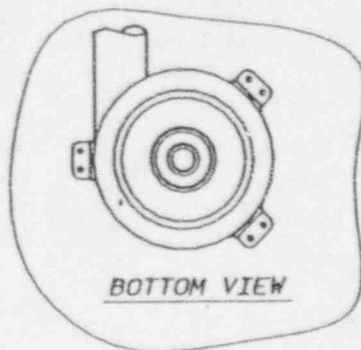
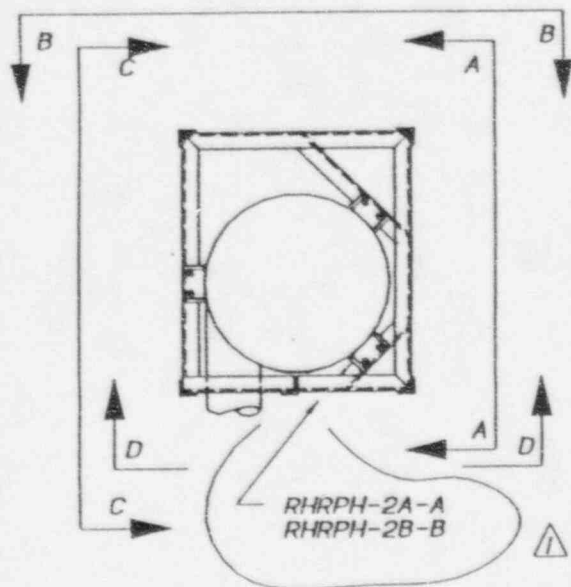
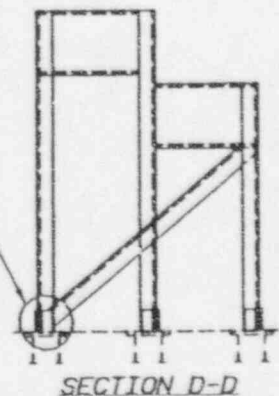


TABLE I		
STM GEN	"A"	"B"
2-1	14 8429 818 000	23"
2-4	14 8429 818 000	23"

DESIGNED BY	REVISED BY	DATE	17-10-85
CHECKED BY	DATE	17-10-85	
APPROVED BY	DATE	17-10-85	
Tennessee Valley Authority			
Sequoyah Nuclear Plant			
Unit 2 (Loops 1 & 4)			
Steam Generator/Feedwater			
Transition Spool Piece			
DESIGNED BY	DATE	17-10-85	
CHECKED BY	DATE	17-10-85	
APPROVED BY	DATE	17-10-85	
ISI-0350-C-01			
02			



SEE DETAIL A



REFERENCE DRAWINGS
48N1232

ASME CC-2 (EQUIVALENT)

NOTES:

2. THIS DRAWING SUPERCEDES ISI-0099-A FOR UNIT 2.
3. FOR UNIT 1 DRAWING SEE ISI-0353-B.

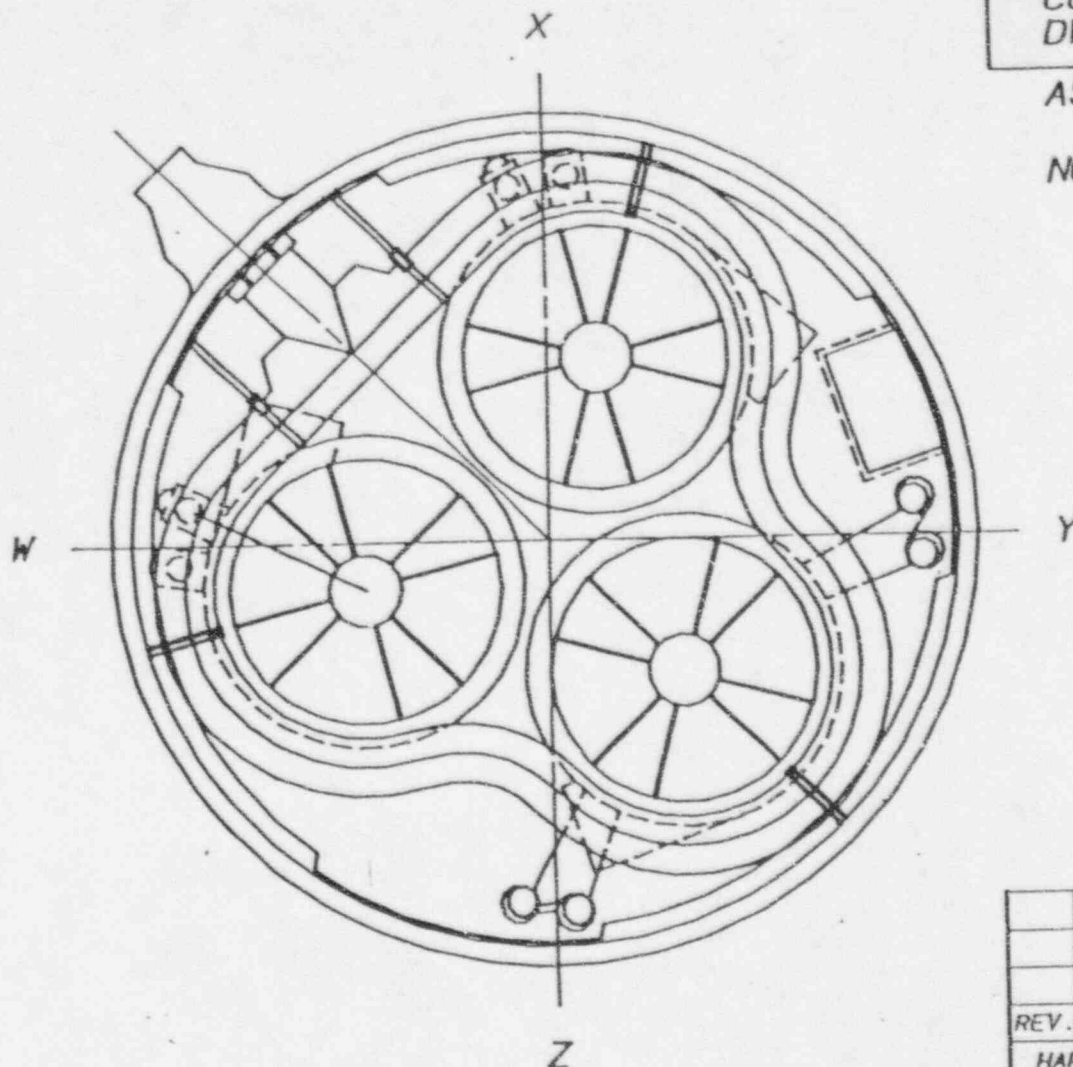
1	RPG	11-24-91	REMOVE NOTE 1, PLACE ID'S ON DWG ADD BOTTOM VIEW		PH3JCG	APP
REV.	BY	DATE	DESCRIPTION		CHK'D	SUB
HARDWARE:		IBM 5085		SOFTWARE:	CADAM	
FILE:		ISICMP				
TENNESSEE VALLEY AUTHORITY						
SEQUOYAH NUCLEAR PLANT						
UNIT 2						
RHR PUMP						
SUPPORT LOCATIONS						
DRAWN: RPG		SUBMITTED		APPROVED		SCALE NTS
DATE: 3-20-89		DATE: 4-4-89		DATE: 4-4-89		SHEET 1 OF 1 SHEET(S)
CHECKED: MRA		REC		GLB		DRAWING NO
DATE: 4-4-89						ISI-0352-B
						REV
						0

REFERENCE DRAWINGS

CONTRACT NO. 91934 (N2M-2-4)
DWG NO. 1097J74

ASME CC-2 (EQUIVALENT)

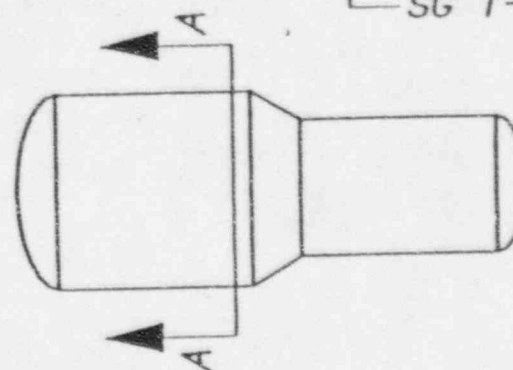
NOTE: AUGMENTED EXAM SEE SECTION IN SI-114.2



SECTION A-A

2-FDRING-SG-X (FEEDRING HEADER)
2-FDTEE-SG-X (FEEDRING TEE)

SG 1-4



REV.	BY	DATE	DESCRIPTION	CK'D	SUB	APP
HARDWARE: IBM 5085			SOFTWARE: CADAM	USER: ISICMP		
TENNESSEE VALLEY AUTHORITY						
SEQUOYAH NUCLEAR PLANT						
UNIT 2						
STEAM GENERATOR						
FEEDWATER RING HEADER						
DRAWN: RPG		SUBMITTED		APPROVED		SCALE NTS
DATE: 11-29-91		DATE: 12-7-91		DATE: 12/7/91		SHEET 1 OF 1 SHEET(S)
CHECKED: WLB		JCG		YJB		DRAWING NO.
DATE: 12/7/91						REV.
ISI-0358-A						00

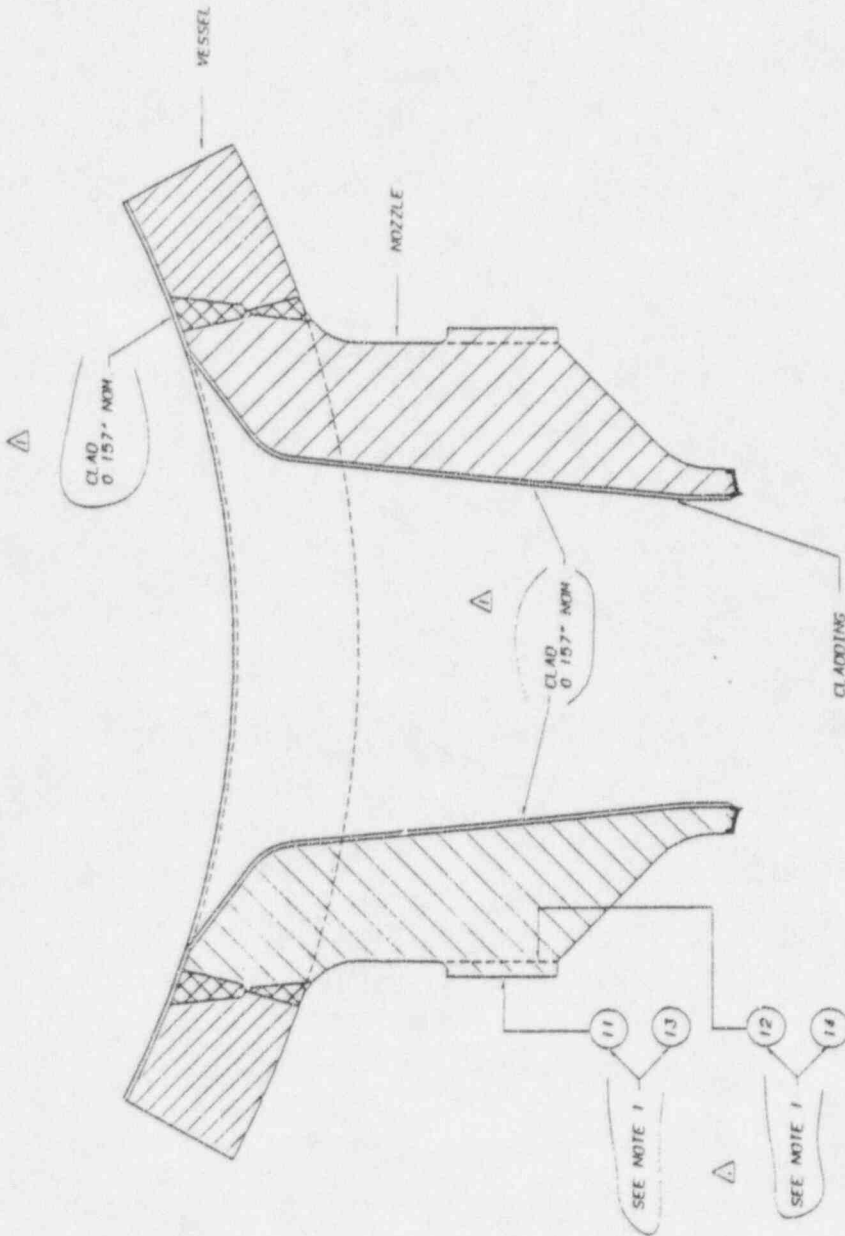
REFERENCE DRAWINGS
WESTINGHOUSE REACTOR PRESSURE VESSEL MANUAL
CONTRACT NO. WAC60-91934 (INOM-2-3)
FIGURE 7.7

ASME CC-1 (EQUIVALENT)

NOTE

- 1 SUPPORT PAD ONLY ON NOZZLES 11 & 13
SEE DRAWING ISI-0298-C-04 FOR SUPPORT
- 2 FOR UNIT 1 DWG SEE CHN-2360-C

INLET NOZZLE



SEE NOTE 1

SEE NOTE 1

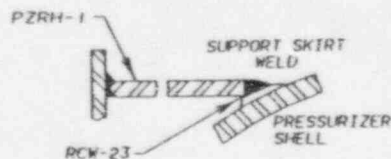
1	DWG	ISI-0392-C-01	12.16.75
2	REV	CHG	12.16.75
3	REV	CHG	12.16.75
4	REV	CHG	12.16.75
5	REV	CHG	12.16.75
6	REV	CHG	12.16.75
7	REV	CHG	12.16.75
8	REV	CHG	12.16.75
9	REV	CHG	12.16.75
10	REV	CHG	12.16.75
11	REV	CHG	12.16.75
12	REV	CHG	12.16.75
13	REV	CHG	12.16.75
14	REV	CHG	12.16.75
15	REV	CHG	12.16.75
16	REV	CHG	12.16.75
17	REV	CHG	12.16.75
18	REV	CHG	12.16.75
19	REV	CHG	12.16.75
20	REV	CHG	12.16.75
21	REV	CHG	12.16.75
22	REV	CHG	12.16.75
23	REV	CHG	12.16.75
24	REV	CHG	12.16.75
25	REV	CHG	12.16.75
26	REV	CHG	12.16.75
27	REV	CHG	12.16.75
28	REV	CHG	12.16.75
29	REV	CHG	12.16.75
30	REV	CHG	12.16.75
31	REV	CHG	12.16.75
32	REV	CHG	12.16.75
33	REV	CHG	12.16.75
34	REV	CHG	12.16.75
35	REV	CHG	12.16.75
36	REV	CHG	12.16.75
37	REV	CHG	12.16.75
38	REV	CHG	12.16.75
39	REV	CHG	12.16.75
40	REV	CHG	12.16.75
41	REV	CHG	12.16.75
42	REV	CHG	12.16.75
43	REV	CHG	12.16.75
44	REV	CHG	12.16.75
45	REV	CHG	12.16.75
46	REV	CHG	12.16.75
47	REV	CHG	12.16.75
48	REV	CHG	12.16.75
49	REV	CHG	12.16.75
50	REV	CHG	12.16.75
51	REV	CHG	12.16.75
52	REV	CHG	12.16.75
53	REV	CHG	12.16.75
54	REV	CHG	12.16.75
55	REV	CHG	12.16.75
56	REV	CHG	12.16.75
57	REV	CHG	12.16.75
58	REV	CHG	12.16.75
59	REV	CHG	12.16.75
60	REV	CHG	12.16.75
61	REV	CHG	12.16.75
62	REV	CHG	12.16.75
63	REV	CHG	12.16.75
64	REV	CHG	12.16.75
65	REV	CHG	12.16.75
66	REV	CHG	12.16.75
67	REV	CHG	12.16.75
68	REV	CHG	12.16.75
69	REV	CHG	12.16.75
70	REV	CHG	12.16.75
71	REV	CHG	12.16.75
72	REV	CHG	12.16.75
73	REV	CHG	12.16.75
74	REV	CHG	12.16.75
75	REV	CHG	12.16.75
76	REV	CHG	12.16.75
77	REV	CHG	12.16.75
78	REV	CHG	12.16.75
79	REV	CHG	12.16.75
80	REV	CHG	12.16.75
81	REV	CHG	12.16.75
82	REV	CHG	12.16.75
83	REV	CHG	12.16.75
84	REV	CHG	12.16.75
85	REV	CHG	12.16.75
86	REV	CHG	12.16.75
87	REV	CHG	12.16.75
88	REV	CHG	12.16.75
89	REV	CHG	12.16.75
90	REV	CHG	12.16.75
91	REV	CHG	12.16.75
92	REV	CHG	12.16.75
93	REV	CHG	12.16.75
94	REV	CHG	12.16.75
95	REV	CHG	12.16.75
96	REV	CHG	12.16.75
97	REV	CHG	12.16.75
98	REV	CHG	12.16.75
99	REV	CHG	12.16.75
100	REV	CHG	12.16.75

SENOYAH NUCLEAR PLANT
UNIT 2

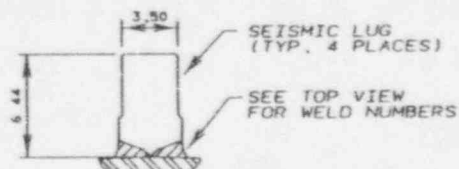
REACTOR VESSEL
INLET NOZZLES

DATE 12.15.75
DRAWN BY
CHECKED BY
SUBMITTED BY

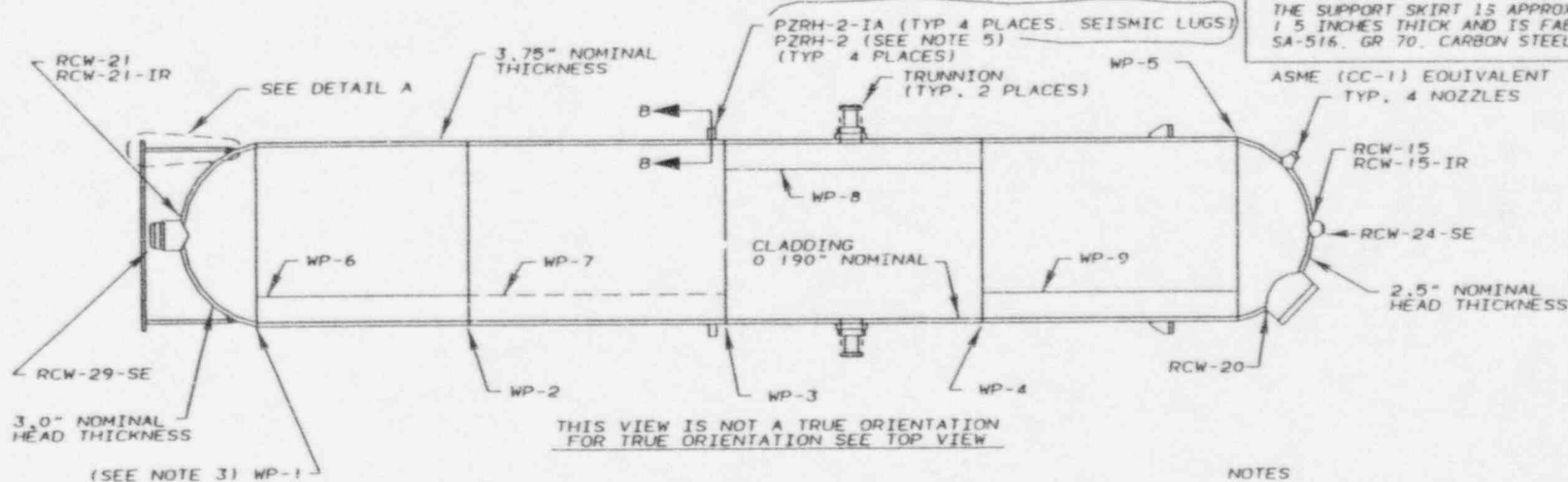
SCALE 1/2" = 1'-0"
CIRCLING
ISI-0392-C-01



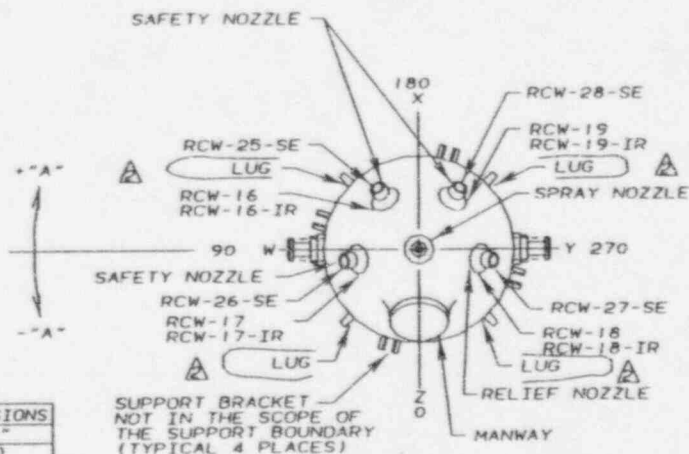
DETAIL A



SECTION B-B



THIS VIEW IS NOT A TRUE ORIENTATION
FOR TRUE ORIENTATION SEE TOP VIEW



AS BUILT DIMENSIONS	
WELD NO	"A"
WP-6	-60
WP-9	-45

TOP VIEW

REFERENCE DRAWINGS

CONTRACT NO 68C60-91934 (N2M-2-6)
PRESSURIZER MANUAL (FIGS 5-1, 5-7)

MATERIAL SPECIFICATIONS

ALL VESSEL SHELL AND HEAD SECTIONS
ARE FABRICATED OF SA-533, CLASS 2,
MANGANESE-MOLYBDENUM STEEL AND ARE
CLAD WITH AUSTENITIC STAINLESS STEEL

THE NOZZLES ARE FABRICATED OF SA-508,
CLASS 2, MANGANESE-MOLYBDENUM STEEL

SAFE END CONNECTIONS ARE SA-182,
GR F-316L FORGINGS

THE SUPPORT SKIRT IS APPROXIMATELY
1.5 INCHES THICK AND IS FABRICATED OF
SA-516, GR 70, CARBON STEEL PLATE

ASME (CC-1) EQUIVALENT
TYP. 4 NOZZLES

RCW-15
RCW-15-IR

RCW-24-SE

2.5" NOMINAL
HEAD THICKNESS

NOTES

- 1 THIS DWG SUPERCEDES BOTH ISI-0308-A
AND ISI-0323-A.
- 2 FOR UNIT 1 DWG SEE ISI-0394-C.
- 3 0' IS $\frac{1}{4}$ OF MANWAY AND MEASURED
CLOCKWISE IN THE TOP VIEW.
- 4 VESSEL INSIDE SURFACE CLAD - 0.190"
NOMINAL
- 5 SUPPORT CLASSIFIED AS RIGID SUPPORT
AT THIS LOCATION SEE DRAWING 48N428
FOR CONFIGURATION

2	RPG	8/16	2/27/92
ADD 1A IDENTIFIER & REMOVE MULTIPLE LUG JO'S PER FOOT 16-02			
1	RPG	JCG	FRS GLN 12-16-95
ADD SUPPORT IDENTIFIERS, ADD NOTE 4 & 5, ADD THICKNESSES, ADD MILL SPECS, REMOVE WELDS IDENTIFIED IN SECTIONS			
REV	BY	CHECKED	SUBMITTED APPROVED DATE
TENNESSEE VALLEY AUTHORITY			
SEQUOYAH NUCLEAR PLANT UNIT 2 PRESSURIZER			
DRAWN	RPG	DATE	12-9-91 SCALE NOT TO SCALE
CHECKED	PHB	APPROVED	GLB CAD MAINTAINED DRAWING REV
SUBMITTED	JCG	ISI-0396-C-01 02	

MEANWAY

MC27LE

NOTE. 1. THERE ARE 3,300 U-TUBES PER STEAM GENERATOR MADE OF ALLOY (TAPORNET) AS 86-SH-16.1) HAVING 0.875 O. D.

NI-CR-FE ALLOY
WALL THK.
AND 0.050 AVG.

2. FOR UNIT 1 DWG SEE ISI-0397-C-
3. THIS DWG REPLACES 76M1 FOR UNIT 2.

DATE	DESCRIPTION	BY	CLASS
	SECOUYAH NUCLEAR PLANT		
	UNIT 2		
	STEAM GENERATOR		
	TUBE SHEET ARRANGEMENT		
DATE	REVISIONS	BY	REASON
12-17-78	1	W. J. BETTIS	REVISED
12-17-78	2	W. J. BETTIS	REVISED
12-17-78	3	W. J. BETTIS	REVISED
12-17-78	4	W. J. BETTIS	REVISED
12-17-78	5	W. J. BETTIS	REVISED
12-17-78	6	W. J. BETTIS	REVISED
12-17-78	7	W. J. BETTIS	REVISED
12-17-78	8	W. J. BETTIS	REVISED
12-17-78	9	W. J. BETTIS	REVISED
12-17-78	10	W. J. BETTIS	REVISED
12-17-78	11	W. J. BETTIS	REVISED
12-17-78	12	W. J. BETTIS	REVISED
12-17-78	13	W. J. BETTIS	REVISED
12-17-78	14	W. J. BETTIS	REVISED
12-17-78	15	W. J. BETTIS	REVISED
12-17-78	16	W. J. BETTIS	REVISED
12-17-78	17	W. J. BETTIS	REVISED
12-17-78	18	W. J. BETTIS	REVISED
12-17-78	19	W. J. BETTIS	REVISED
12-17-78	20	W. J. BETTIS	REVISED
12-17-78	21	W. J. BETTIS	REVISED
12-17-78	22	W. J. BETTIS	REVISED
12-17-78	23	W. J. BETTIS	REVISED
12-17-78	24	W. J. BETTIS	REVISED
12-17-78	25	W. J. BETTIS	REVISED
12-17-78	26	W. J. BETTIS	REVISED
12-17-78	27	W. J. BETTIS	REVISED
12-17-78	28	W. J. BETTIS	REVISED
12-17-78	29	W. J. BETTIS	REVISED
12-17-78	30	W. J. BETTIS	REVISED
12-17-78	31	W. J. BETTIS	REVISED
12-17-78	32	W. J. BETTIS	REVISED
12-17-78	33	W. J. BETTIS	REVISED
12-17-78	34	W. J. BETTIS	REVISED
12-17-78	35	W. J. BETTIS	REVISED
12-17-78	36	W. J. BETTIS	REVISED
12-17-78	37	W. J. BETTIS	REVISED
12-17-78	38	W. J. BETTIS	REVISED
12-17-78	39	W. J. BETTIS	REVISED
12-17-78	40	W. J. BETTIS	REVISED
12-17-78	41	W. J. BETTIS	REVISED
12-17-78	42	W. J. BETTIS	REVISED
12-17-78	43	W. J. BETTIS	REVISED
12-17-78	44	W. J. BETTIS	REVISED
12-17-78	45	W. J. BETTIS	REVISED
12-17-78	46	W. J. BETTIS	REVISED
12-17-78	47	W. J. BETTIS	REVISED
12-17-78	48	W. J. BETTIS	REVISED
12-17-78	49	W. J. BETTIS	REVISED
12-17-78	50	W. J. BETTIS	REVISED
12-17-78	51	W. J. BETTIS	REVISED
12-17-78	52	W. J. BETTIS	REVISED
12-17-78	53	W. J. BETTIS	REVISED
12-17-78	54	W. J. BETTIS	REVISED
12-17-78	55	W. J. BETTIS	REVISED
12-17-78	56	W. J. BETTIS	REVISED
12-17-78	57	W. J. BETTIS	REVISED
12-17-78	58	W. J. BETTIS	REVISED
12-17-78	59	W. J. BETTIS	REVISED
12-17-78	60	W. J. BETTIS	REVISED
12-17-78	61	W. J. BETTIS	REVISED
12-17-78	62	W. J. BETTIS	REVISED
12-17-78	63	W. J. BETTIS	REVISED
12-17-78	64	W. J. BETTIS	REVISED
12-17-78	65	W. J. BETTIS	REVISED
12-17-78	66	W. J. BETTIS	REVISED
12-17-78	67	W. J. BETTIS	REVISED
12-17-78	68	W. J. BETTIS	REVISED
12-17-78	69	W. J. BETTIS	REVISED
12-17-78	70	W. J. BETTIS	REVISED
12-17-78	71	W. J. BETTIS	REVISED
12-17-78	72	W. J. BETTIS	REVISED
12-17-78	73	W. J. BETTIS	REVISED
12-17-78	74	W. J. BETTIS	REVISED
12-17-78	75	W. J. BETTIS	REVISED
12-17-78	76	W. J. BETTIS	REVISED
12-17-78	77	W. J. BETTIS	REVISED
12-17-78	78	W. J. BETTIS	REVISED

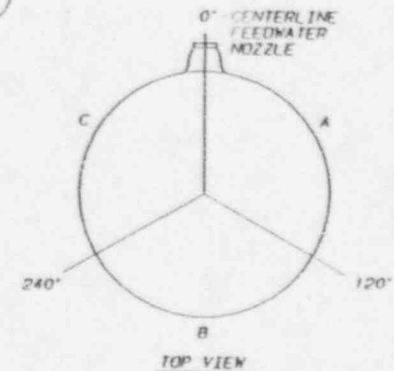
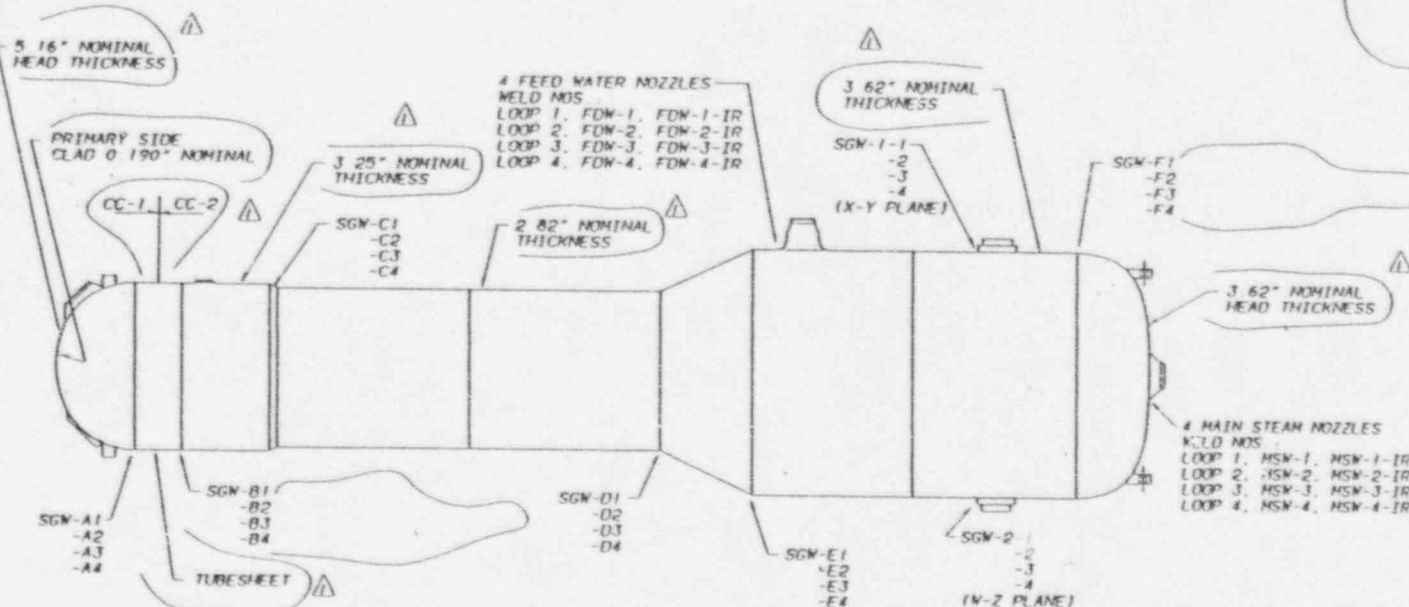
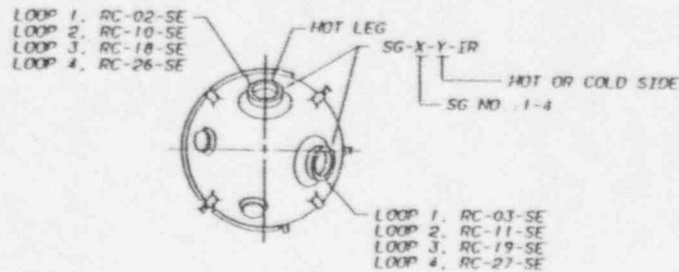
REFERENCE DRAWINGS

CONTRACT NO. 68C60-91934 N2H-2-4
STEAM GEN MANUAL (FIG 5-1)

ASME CC-1 (EQUIVALENT)
ASME CC-2 (EQUIVALENT)

NOTES

1. FOR UNIT 1 DWG SEE ISI-0399-C
2. THIS DWG SUPERCEDES ISI-0320-B
3. STEAM GENERATOR NOZZLE SAFE END TO PIPE WELD ID'S ARE SHOWN ON RC MAIN LOOP DWG ISI-0008-C. THESE ARE CLASSIFIED AS ASME SECTION XI CATEGORY B-F (1 * RC-02). THE EXAMINATION OF THESE WELDS IS INCLUDED IN THE EXAMINATION OF THE NOZZLE SAFE END WELD.
4. STEAM GENERATOR NOZZLE TO SAFE END WELD ID'S SHOWN ON THIS DWG ARE ASME SECTION XI EXAM CATEGORY B-F, DISSIMILAR METAL WELDS (1 * RC-02-SE).



ASME CC-1 MATERIAL SPECIFICATIONS

THE TUBE PLATE IS A SA-508, CLASS 2, STEEL FORGING CLAD ON THE PRIMARY SIDE WITH Ni-Cr-Fe ALLOY. THE HEMISPHERICAL CHAMBER IS A SA-216, GR. MCC CASTING, CLAD WITH AUSTENITIC STAINLESS STEEL.

THE STEAM GENERATOR PRIMARY INTEGRALLY CAST NOZZLES ARE FABRICATED TO SA-216, GR. MCC. THE NOZZLES HAVE BUTTERED JOINT SAFE ENDS.

ASME CC-2 MATERIAL SPECIFICATIONS

THE VESSEL SHELL SECTIONS ARE FABRICATED OF SA-533, GR. A, CLASS 1, STEEL PLATE.

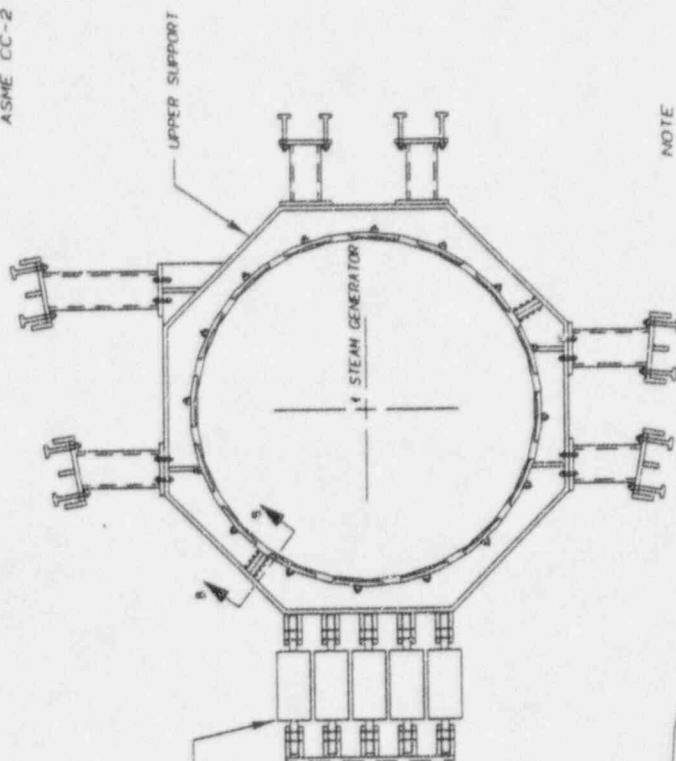
THE VESSEL HEAD SECTION IS FABRICATED OF SA-533, GR. A, CLASS 1, STEEL PLATE.

EACH STEAM GENERATOR INCLUDES ONE FEEDWATER NOZZLE (3.62 INCHES NOMINAL WALL THICKNESS) AND ONE MAIN STEAM NOZZLE (3.62 INCHES NOMINAL WALL THICKNESS). ALL OF THE NOZZLES ARE FABRICATED OF SA-508, CLASS 2, STEEL.

1	REV	BY	DATE	12-14-83
CHANGE NOTES: ADD MAT'L DESCRIPTION, ADD CLAD DIMENSIONS, ADD THICKNESSES, IDENTIFY TUBESHEET, REMOVE WELD PORTIONS				
REV	BY	CHECKED	SUBMITTED	APPROVED
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 2				
STEAM GENERATOR				
DESIGN	ENG	12-9-81	SCALE: NOT TO SCALE	
CHECKED	PHB	APPROVED	CLB	CAD MAINTAINED DRAWING
SUBMITTED	JCC	ISI-0401-C-01		01

48N421
48N421-1
48N422
48N423
48N424
48N425
48N427
48N431
48N432

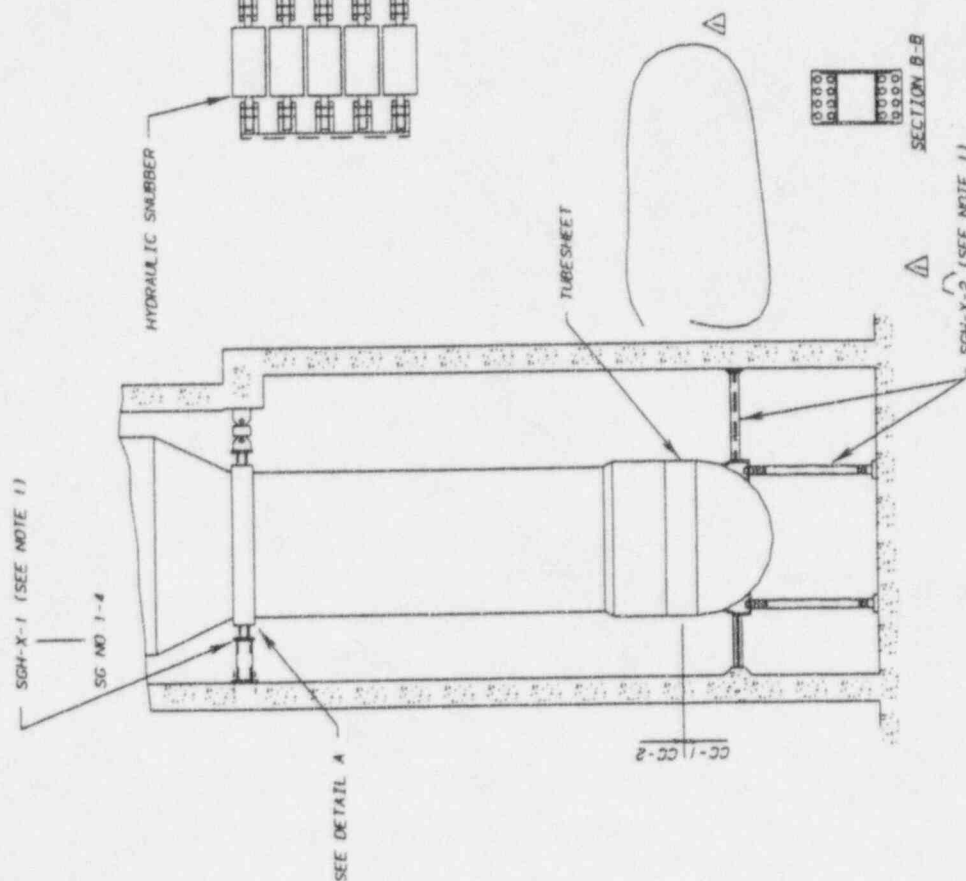
ASME CC-1 (EQUIVALENT)
ASME CC-2 (EQUIVALENT)



NOTE

SUPPORTS CLASSIFIED AS RIGID
SUPPORT AT THIS LOCATION. SEE
REFERENCE DRAWINGS FOR DETAILS

DETAIL A



9-6 MO11335

SCM-X-2 (SEE NOTE 1)

SG NO 1-1

1	1	NOV	BIA	WRE	APPRO	11/18/96
CHANGE CC-1 SUPPORT TO A SINGLE TO PER FIDT 96-02						
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE	

TENNESSEE VALLEY AUTHORITY

SEQUIOAH NUCLEAR PLANT UNIT 2

STEAM GENERATOR SUPPORT LOCATIONS

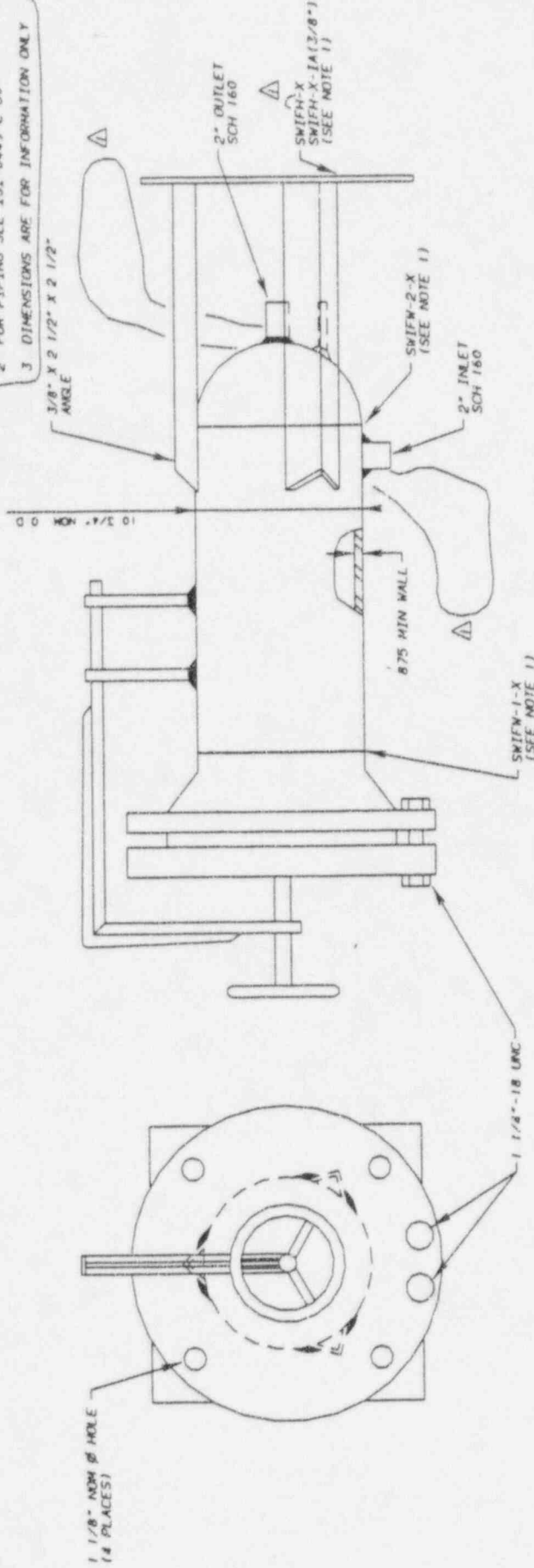
DRAWING RPOC	DATE	12-16-95	SCALE	NOT TO SCALE
CHECKED JCS	APPROVED GLV	I-CAD MAINTAINED DRAWING REV		
UNSUBMITTED FRS	ISI	401-C-02	01	01

REFERENCE DRAWINGS
CONTRACT NO. 91934 (NQM-2-26)
DRAWING NO. 9444-2023

MATERIAL SPECIFICATIONS
VESSEL MATERIAL 304 STIM STL
ASME CC-2 (EQUIVALENT)

NOTES

1. SUBSTITUTE AN A OR B FOR X TO SIGNIFY WHICH FILTER IS EXAMINED. A DESIGNATES THE FILTER BETWEEN VALVES 62-547 & 62-549 WHILE B DESIGNATES THE FILTER BETWEEN VALVES 62-548 & 62-550.
2. FOR PIPING SEE ISI-0449-C-30
3. DIMENSIONS ARE FOR INFORMATION ONLY



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1	BRG	BRG	BRG	BRG	2/22/96

Tennessee Valley Authority					
SECOYAH NUCLEAR PLANT					
UNIT 2					
SEAL WATER INJECTION FILTER					
WELD AND SUPPORT LOCATIONS					
DRAWN	BRG	DATE	12-18-95	SCALE	NOT TO SCALE
CHECKED	KJD	APPROVED	BRG	CAD	MAINTAINED DRAWING
SUBMITTED	FRS				ISI-0457-C-01
					01

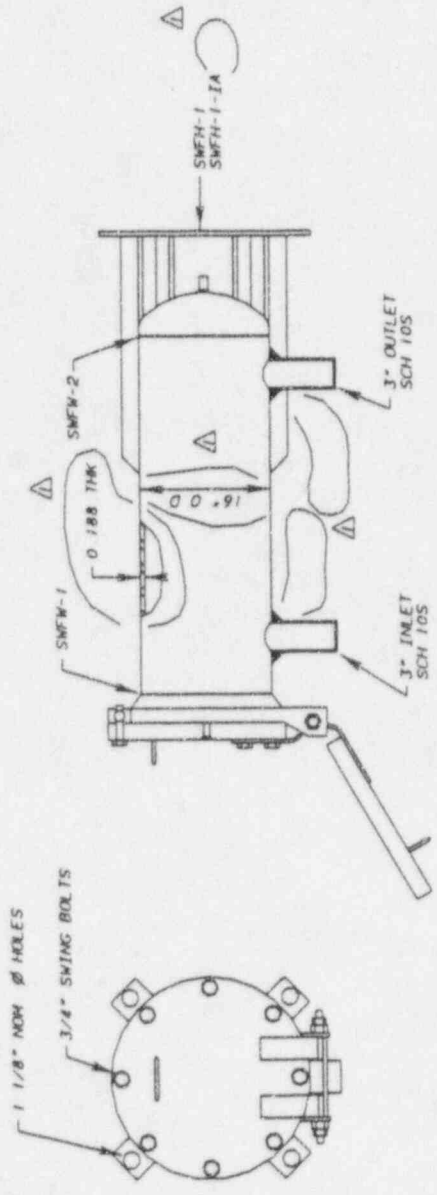
REFERENCE DRAWINGS
CONTRACT NO. 91934 (NSM-2-26)
DRAWINGS NO. 51049

MATERIAL SPECIFICATIONS
VESSEL MATERIAL 304 STN. STL.

ASME CC-2 (EQUIVALENT)

NOTES

1. FOR PIPING SEE ISI-0449-C-24 & -25
2. DIMENSIONS ARE FOR INFORMATION ONLY



1	REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1	REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
ADD TYP AND O.D. DIMENSIONS TO DRAWING PER TIT 14-02 REMOTE NOZZLE WELD TO S.W.F.W.-3 & 4						
TENNESSEE VALLEY AUTHORITY SECOYAH NUCLEAR PLANT UNIT 2 SEAL WATER FILTER WELD AND SUPPORT LOCATIONS						
DRAWN	REV	DATE	12-16-95	SCALE	NOT TO SCALE	
CHECKED	JTS	APPROVED	GLW	CAD MAINTAINED DRAWING	REV	
SUBMITTED	FBS			ISI-0459-C-01		01

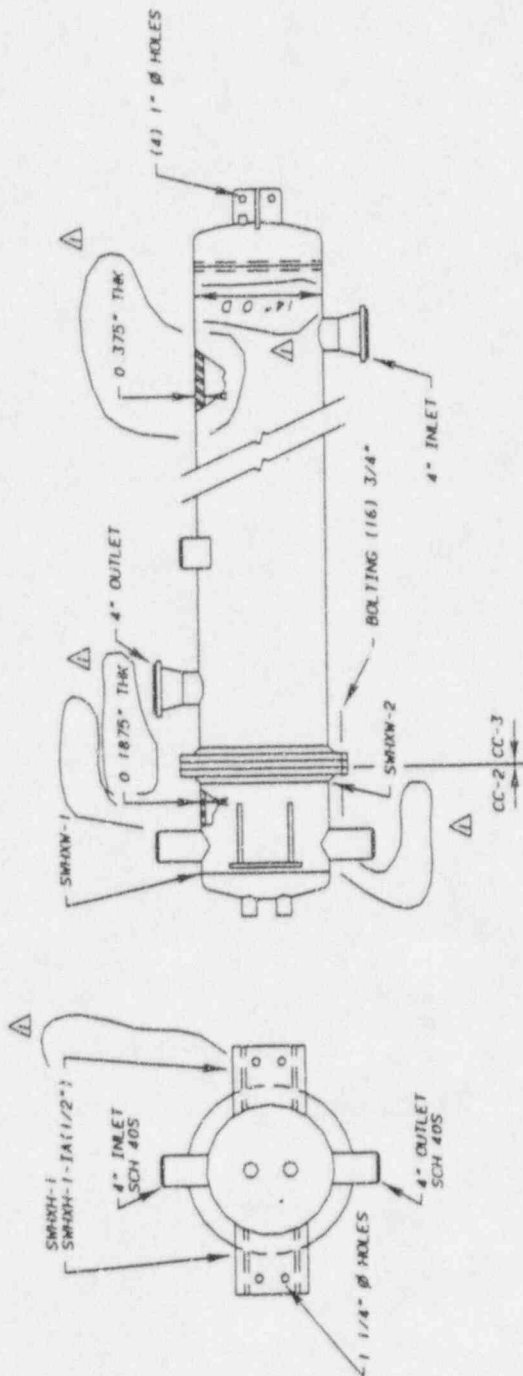
REFERENCE DRAWINGS
ATLAS INDUST MAN CO
CONTRACT NO 842686
DRAWING NO D-2086-5

MATERIAL SPECIFICATIONS
TUBE SIDE SHELL AND HEAD SA240.
SS304, 3/16" THICK

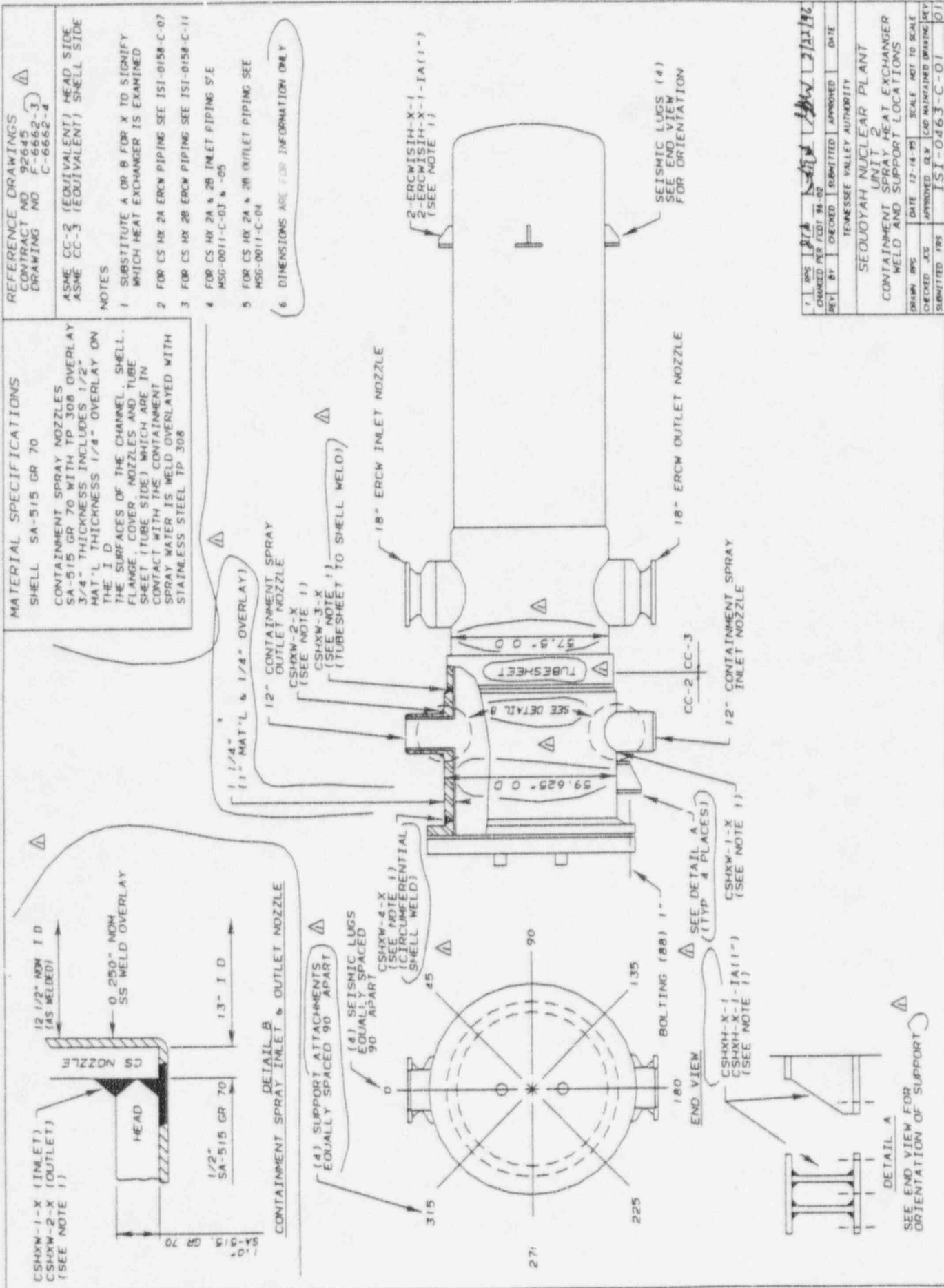
SHELL SIDE ASME CC-3 (EQUIVALENT)
TUBE SIDE ASME CC-2 (EQUIVALENT)

NOTES

- 1 SHELL SIDE EXEMPT DUE TO 4" EXEMPTION
- 2 FOR PIPING SEE ISI-0449-C-25
- 3 DIMENSIONS ARE FOR INFORMATION ONLY



1	REV	BY	CHECKED	SUBMITTED	APPROVED	DATE	SCALE	NOT TO SCALE
1	REV	BY	CHECKED	SUBMITTED	APPROVED	DATE	SCALE	NOT TO SCALE
TENNESSEE VALLEY AUTHORITY SEOUYAH NUCLEAR PLANT UNIT 2 SEAL WATER HEAT EXCHANGER WELD AND SUPPORT LOCATIONS								
DRAWN	RPG					DATE 12-16-95	SCALE	NOT TO SCALE
CHECKED	JCC					APPROVED GLM	CAD MAINTAINED DRAWING	REV
SUBMITTED	FBS					ISI-0461-C-01		01

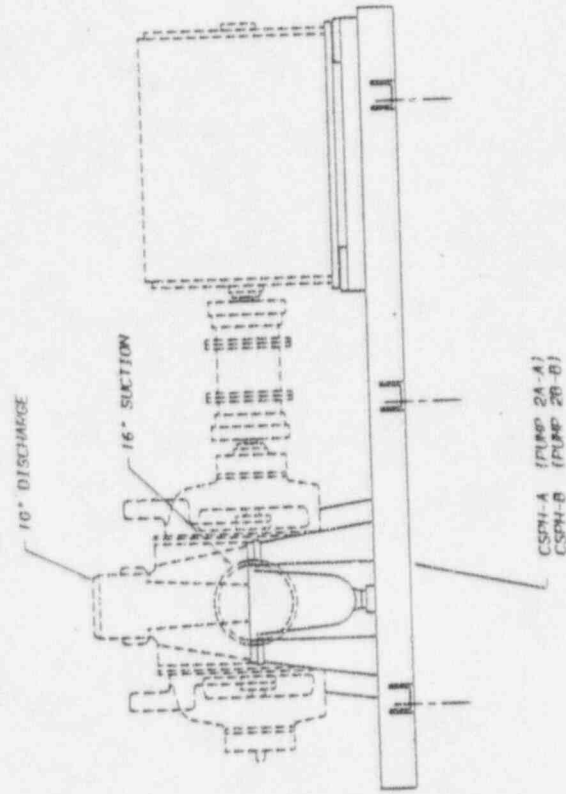


REFERENCE DRAWINGS
 CONTRACT NO. 92646
 DRAWING NO. 1-06032-12 50-2
 SE032X11-1

ASME CC-2 (EQUIVALENT)

NOTES:

1. FOR SUCTION PIPING SEE MSG-0011-C-01 & -02
2. FOR DISCHARGE PIPING SEE MSG-0011-C-03 & 05



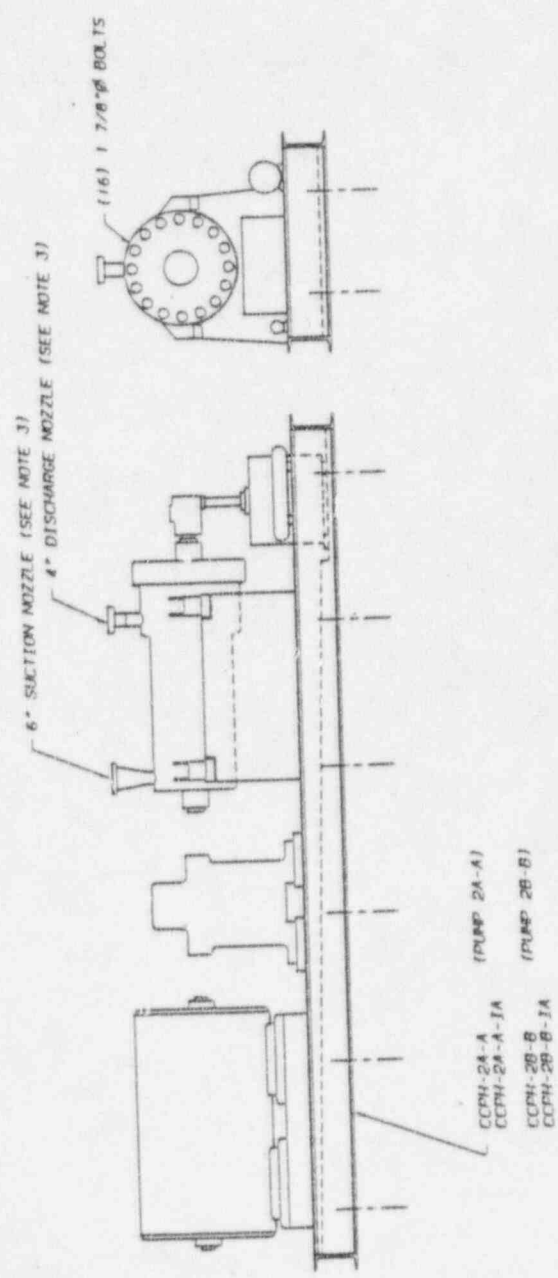
REV.	BY	CREATED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SFRAY PUMP					
WELD AND SUPPORT LOCATIONS					
DRAWN RFG	DATE 12/15/85	SCALE 100 TO 1	BY		
CHECKED ECA	APPROVED [Signature]	DATE 12/15/85	BY		
SUBMITTED [Signature]	ISI-0465-C-01				
					00

REFERENCE DRAWINGS
 CONTRACT NO. 91934
 EC-45619
 DRAWING NO. J-285-N
 B-9118

ASME CC-2 (EQUIVALENT)

NOTES:

- 1 THE PUMP FEET ARE BOLTED TO A COMMON SUPPORT
- 2 THE PUMP FEET ARE INTEGRALLY WELDED TO THE CASING
- 3 NOZZLE WELDS SHOWN ON PIPING WELD LOCATION DRAWINGS
- 4 FOR DISCHARGE PIPING SEE ISI-0449-C-17
- 5 FOR SUCTION PIPING SEE ISI-0449-C-15 & -37



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
CENTRIFUGAL CHARGING PUMP					
WELD AND SUPPORT LOCATIONS					
DESIGN BY	DATE	12/16/83	SCALE	1:10	10/10/83
CHECKED BY	APPROVED	JFW	LAB	MANUFACTURED	DATE
SUBMITTED	BY	JFW	ISI-0467-C-01		00

CONTRACT NO 9193A
DRAWING NO FC-45648-3

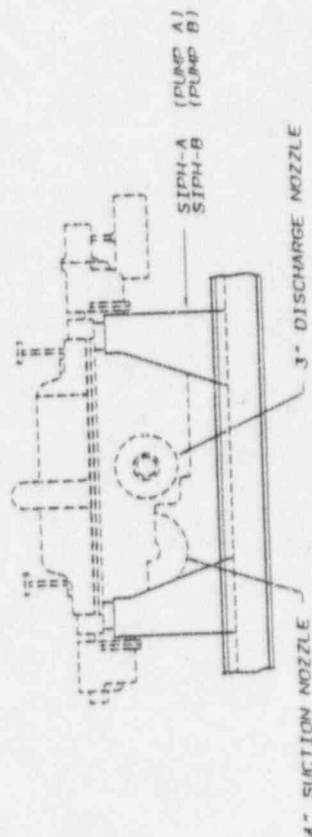
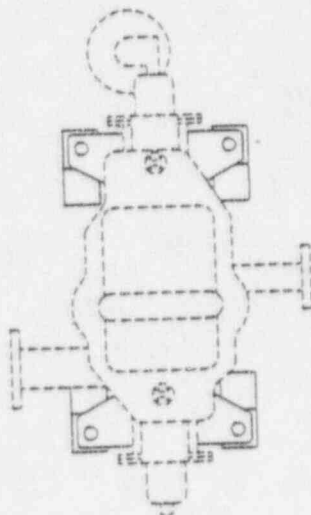
CONTRACT NO. 919JA
DRAWING NO. FC-45648-3

PUMP CASTING ASTM A-351 CFP

PUMP CASTING ASTM A-351 CFP

NOTES

- 1 FOR SUCTION PIPING SEE
ISI-0449-C-38 & -39
- 2 FOR DISCHARGE PIPING SEE
ISI-0449-C-02 & -03



DATE	APPROVED	SUBMITTER	CHECKED	BY
12-16-93	APPROVED	APPROVED	APPROVED	APPROVED
TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT UNIT 2 SAFETY INJECTION PUMP WELD AND SPECTRO LOCATIONS				

ATTACHMENT 2.b

ULTRASONIC CALIBRATION STANDARDS

Block No.	Size	Schedule or Thickness	Material	Comments
BNP-12	4"	Sch 40	SS SA312 TP304	Piping
BNP-13	3"	Sch 160	SS SA376 TP304	Piping
BNP-17	12"	Sch 40	SS SA312 TP304	Piping
BNP-25	4"	Sch 160	SS SA376 TP304	Piping
BNP-32	14"	Sch 40	SS SA376 TP304	Piping
BNP-79	Flat	2 63/64" Thk	CS SA533 GRB CL1	Vessel (Clad)
BNP-80	Flat	5" Thk	CS SA533 GRB CL1	Vessel (Clad)
SQ-01	6"	Sch 160	SS TP304	Piping
SQ-02	8"	Sch 160	SS TP304	Piping
SQ-05	32"	1.429" Thk	CS SA516 GR70	Piping (Main Steam)
SQ-06	2"	Sch 160	SS TP304	Piping
SQ-07	8"	Sch 120	SS TP304	Piping
SQ-10	14"	Sch 160	SS A312 TP304	Piping
SQ-12	2 1/2"	Sch 160	SS A312 TP304	Piping
SQ-13	4"	Sch 120	SS A312 TP304	Piping
SQ-15	Flat	1" Thk	SS TP304	Vessel
SQ-16	12"	Sch 160	SS A403 WP316	Piping
SQ-17	6"	Sch 120	SS TP304	Piping
SQ-18	18"	Sch 80	CS A333 GR1	Piping
SQ-19	6"	XXS	CS A106	Piping
SQ-21	10"	1.5" Thk	CS SA106 B	Piping
SQ-29	6"	1.2" Thk	SS TP304	Piping
SQ-38	10"	Sch 140	SS TP316	Piping
SQ-39	18"	Sch 40	SS SA240 TP304	Piping
SQ-40	Flat	3" Thk	CS SA533 TP A CL2	Vessel
SQ-41	Flat	3 7/8" Thk	CS SA533 TP A CL2	Vessel (Clad)
SQ-43	Flat	5 3/16" Thk	CS A508 CL2	Vessel (Clad)
SQ-44	Flat	8 11/16" Thk	CS A508 CL2	Vessel (Clad)
SQ-45	Flat	11 1/8" Thk	CS A508 CL2	Vessel (Clad)
SQ-46	Flat	7 1/16" Thk	CS A508 CL2	Vessel (Clad)
SQ-49	Flat	5" Thk	CS SA216 GR WCC	Vessel (Clad)
SQ-51	Flat	5 29/32" Thk	CS A508 CL2	Vessel - Inner Radius (Clad)
SQ-52	7" Stud	15" Long	CS SA540 GR B24	Bolting (RPV Stud)
SQ-53	Flat	23 13/16" Thk	CS A508 CL2	Vessel (Clad)
SQ-57	Flat	4" Thk	CS SA533 GR A	Vessel
SQ-59	Flat	16" Thk	CS A216 GR WCC	Vessel - SG Pri Noz IR (Clad)
SQ-60	14"	3.22" Thk	SS SA182 F316	Piping - Br Conn (Surge Line)
SQ-61	16"	Sch 80	CS SA333 GR1	Piping
SQ-62	16"	Sch 60	CS A508 CL2	Piping
SQ-63	27.5" I.D.	2.4" Thk	CCSS SA 351 GR CF8A	Piping - Main Loop
SQ-64	31" I.D.	3" Thk	CCSS SA 351 GR CF8A	Piping - Main Loop
SQ-65	3"	1.3" Thk	SS SA182 F316	Piping (Branch Connection)

ULTRASONIC CALIBRATION STANDARDS

Block No.	Size	Schedule or Thickness	Material	Comments
SQ-66	6"	1.85" Thk	SS SA182 F316	Piping (Branch Connection)
SQ-67	10"	2.49" Thk	SS SA182 F316	Piping (Branch Connection)
SQ-68	Flat	3.75" Thk	CS SA533 GR B	RCP Flywheel
SQ-69	4"	1.53" Thk	SS SA182 F316	Piping (Branch Connection)
SQ-70	8"	2.09" Thk	SS SA182 F316	Piping (Branch Connection)
SQ-71	12"	2.99" Thk	SS SA182 F316	Piping (Branch Connection)
SQ-76	Flat	14" Thk	CS A508 CL2	Vessel (Noz IR)
SQ-77	Flat	12" Thk	CS A508 CL2	Vessel (Noz IR)
SQ-78	Flat	4.5" Thk	CS SA533 GR B	RCP Flywheel
SQ-79	4"	Sch 80	CS A106 GR B	Piping
SQ-80	5.44" O.D.	.531" Thk	INC SB166 TP600	Piping
SQ-81	5.44" O.D.	.527" Thk	SS SA479 A91	Piping
SQ-82	4" O.D.	.625" Thk	INC SB166 TP600	Piping
SQ-83	4" O.D.	.625" Thk	SS SA479 A91	Piping
SQ-84	4.5" Stud	30.5" Long	CS A540	Bolting (RCP Main Flange)
SQ-85	2"	Sch 80	SS SA376 TP304	Piping
SQ-86	3"	Sch 80	SS SA376 TP304	Piping
SQ-87	3"	Sch 40	SS SA376 TP304	Piping
SQ-88	4"	Sch 80	SS SA376 TP304	Piping
SQ-89	16"	Sch 40S (STD)	SS SA358 TP304	Piping
SQ-90	20"	Sch 40S (STD)	SS SA358 TP304	Piping
SQ-91	24"	Sch 40S (STD)	SS SA358 TP304	Piping
WB-39	Flat	4 1/64" Thk	CS SA533 GRA CL2	Vessel
FAB*	14"	Sch 40	SS	Piping
FAB*	Flat	3.375" Thk	CS	Piping
FAB*	7" Stud	Full Length	CS	Bolting (RPV Stud) to Appendix 6
FAB*	2 1/2" Stud	13 1/2" Long	CS	CCP Tank Studs to Appendix 6

* Requires fabrication

ATTACHMENT 2.g

Marked ISI drawings showing the Examination Category C-F-1 piping.

The orange marked piping identifies the excluded piping with less than 3/8 inch nominal wall thickness and greater than 4 inches NPS.

The yellow marked piping identifies the non excluded piping greater than or equal to 3/8 inch nominal wall thickness for piping greater than 4 inches NPS. Welds selected for examination are distributed over this piping.

The pink marked piping identifies the piping greater than 1/5 inch nominal wall thickness for piping greater than or equal to 2 inches and less than or equal to 4 inches NPS. Welds selected for examination are distributed over this piping.

The blue marked piping identifies the excluded piping equal to or less than 1/5 inch nominal wall thickness piping greater than or equal to 2 inches and less than or equal to 4 inches NPS.

A-7489
A-7493

fold

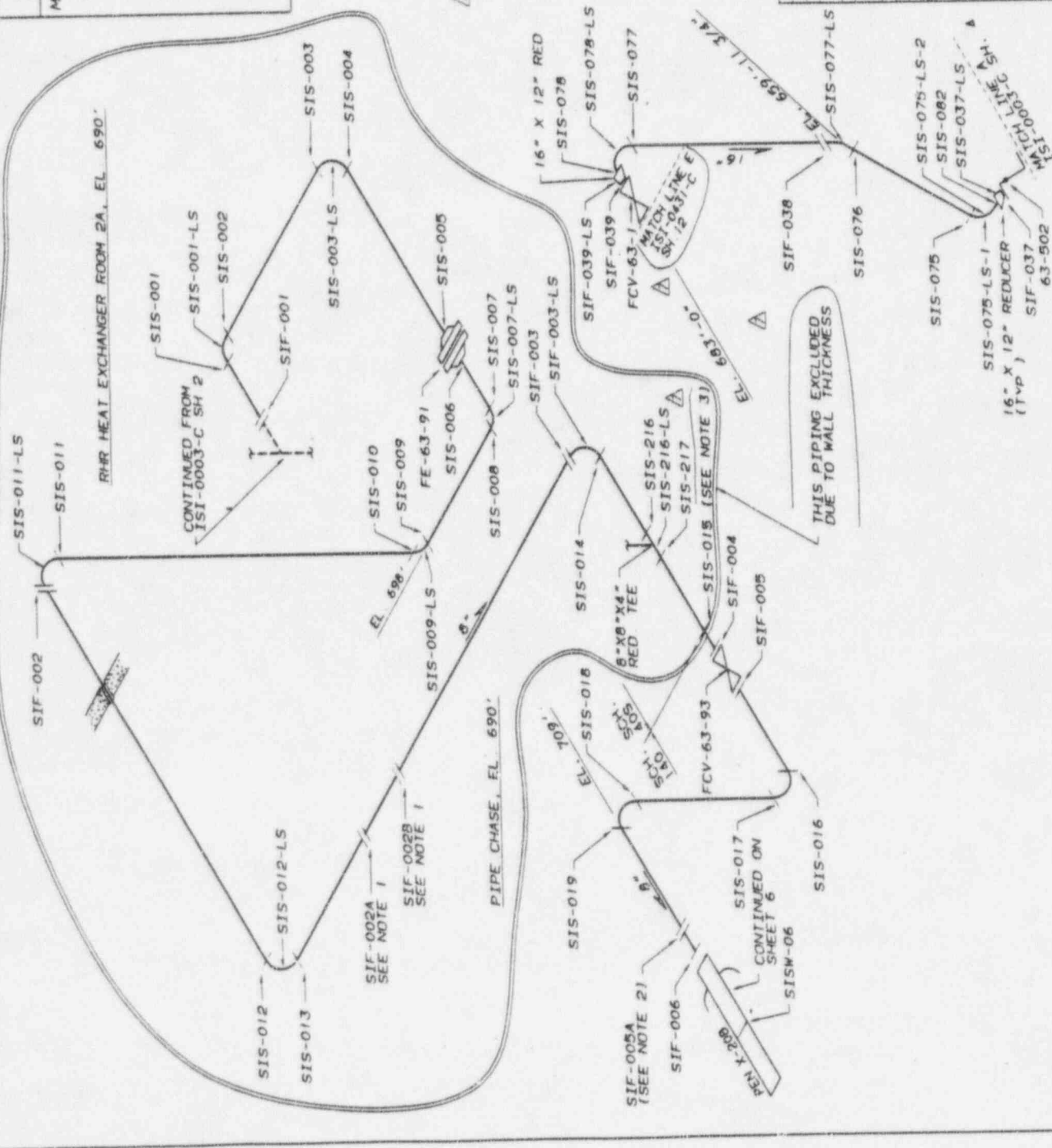
SA358 CL 1 TP 316W
16- SCH 40
SA 376 TP 316
8- SCH 140
SA 312 TP 316W
8- SCH 40S

SA 403 WP 316W
16" SCH 40
8" SCH 40S
SA403 WP 316
8" SCH 140

ASME CC-2 (EQUIVALENT)

NOTES

- THESE WELDS ARE CONSIDERED
STRUCTURAL DISCONTINUITIES
DUE TO FLOW RESTRICTORS
- 2 THIS WELD IS WITHIN 3 PIPE
DIAMETERS
- PIPE COUNTERBORED TO SCH 40S

[illegible]

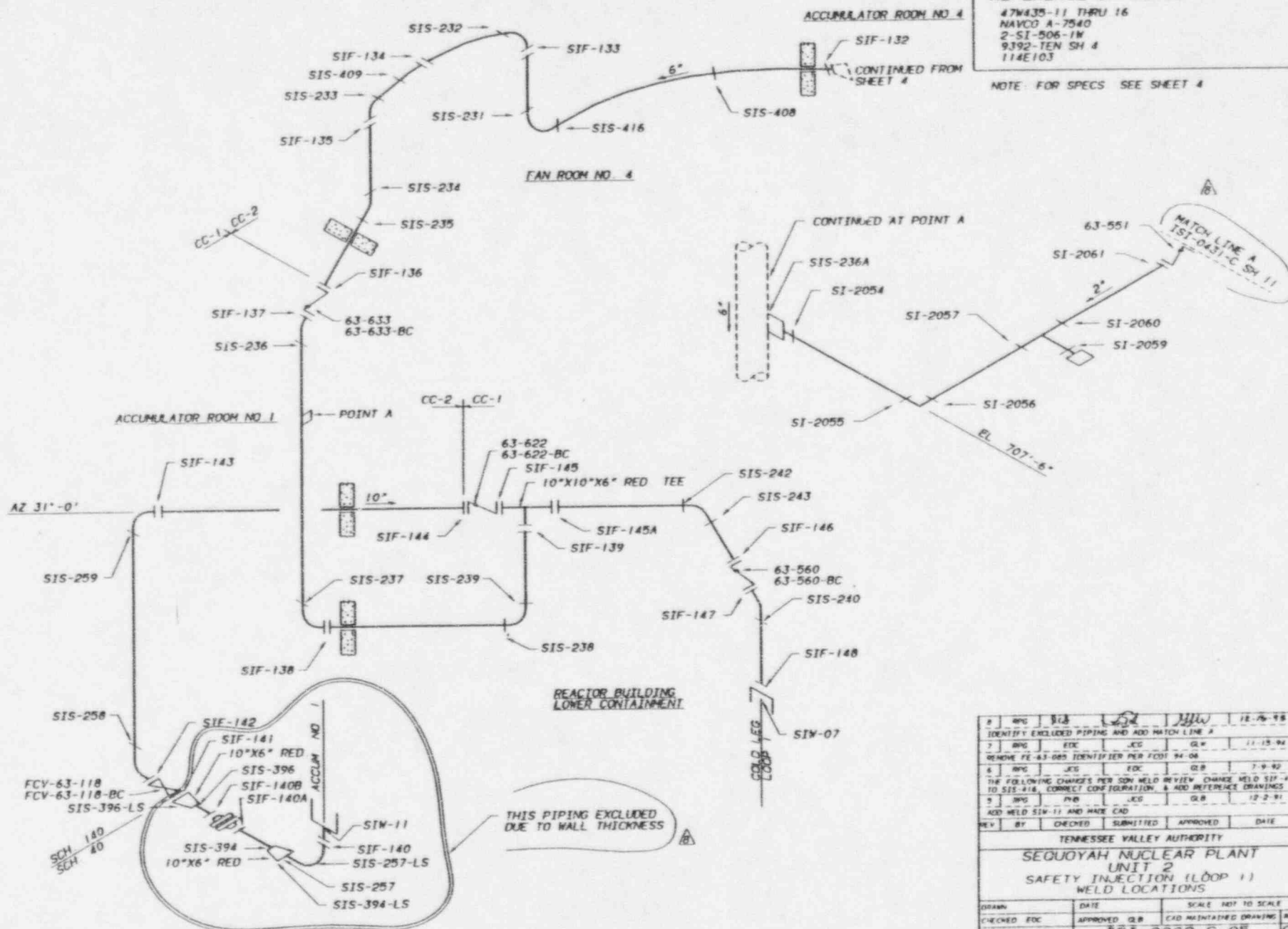
A-7491
A-7495
47W435 SERIES
MATERIAL SPEC
PIPE
SA-312 TP-316W
8" SCH 40S
Fittings
SA-403 TP-316W
8" SCH 40S

5	ING	JCS				18-06-90
INVENTORY EXERCISED PIPING AND AND MATCH LINE # 8						
4	ING	PND	JCS	QSR		11-13-90
CORRECT WELD NOT SITS QLS & REGRIND ON CRACK				QSR		2-17-90
3	DNG	MRA	REC			
AUGUR L.S. WEBS & AUGUR CORN PLASS						
REQ	BY	ORDERED	SUBMITTED	APPROVED	DATE	
TENNESSEE VALLEY AUTHORITY						
<u>SECURITY NUCLEAR PLANT</u>						
<u>UNIT 2</u>						
<u>SAFETY INJECTION SYSTEM</u>						
<u>WELD LOCATIONS</u>						
DESIGN	DATE	SCALE	NOT TO SCALE			
CHECKED ENC	APPROVED QSR	CAD MANAGER DRAWING				
		157-0005-C-03				05

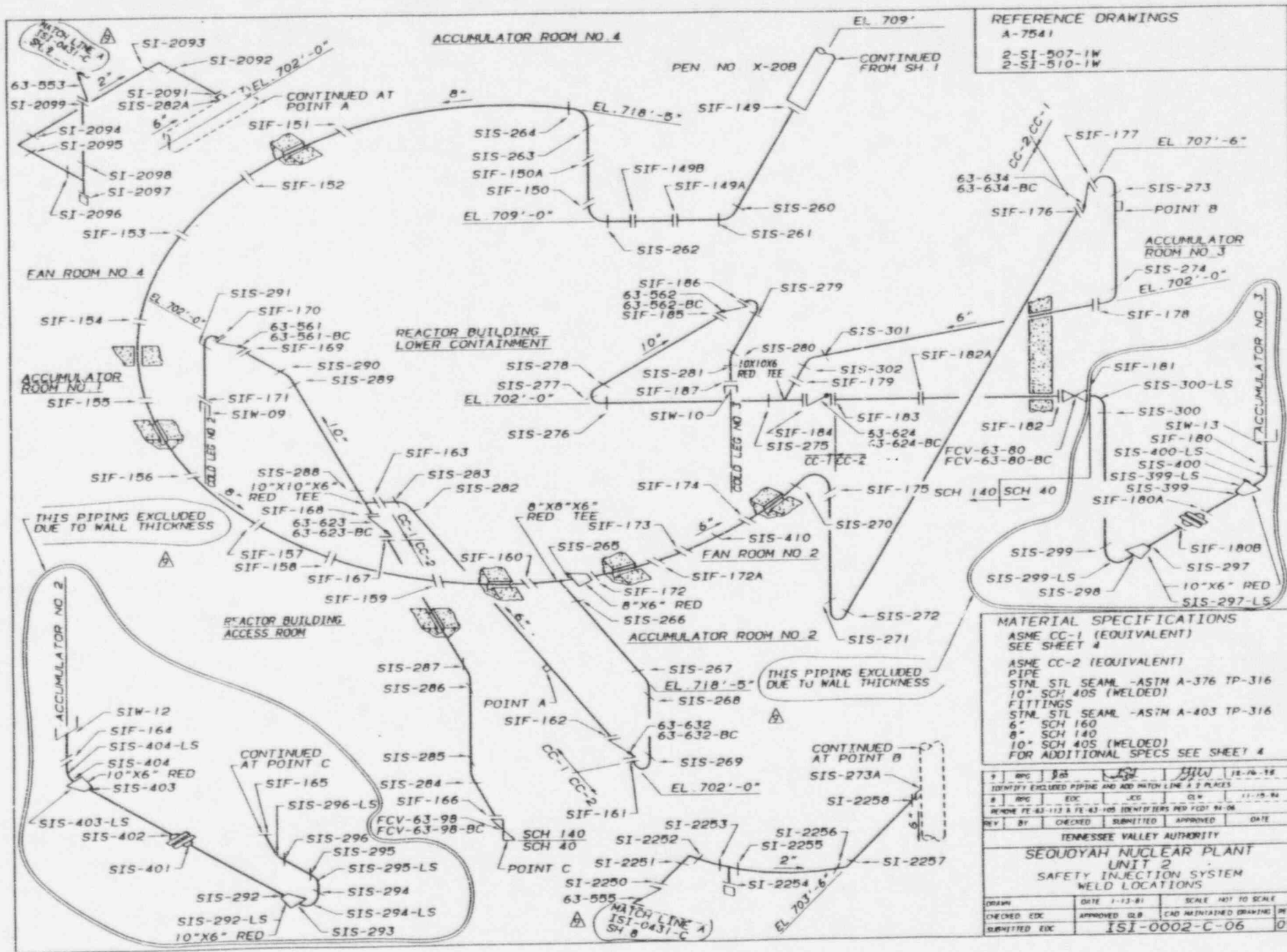
REFERENCE DRAWINGS

47W435-11 THRU 16
NAVCO A-7540
2-SI-506-1W
9392-TEN SH 4
114E103

NOTE: FOR SPECS SEE SHEET 4



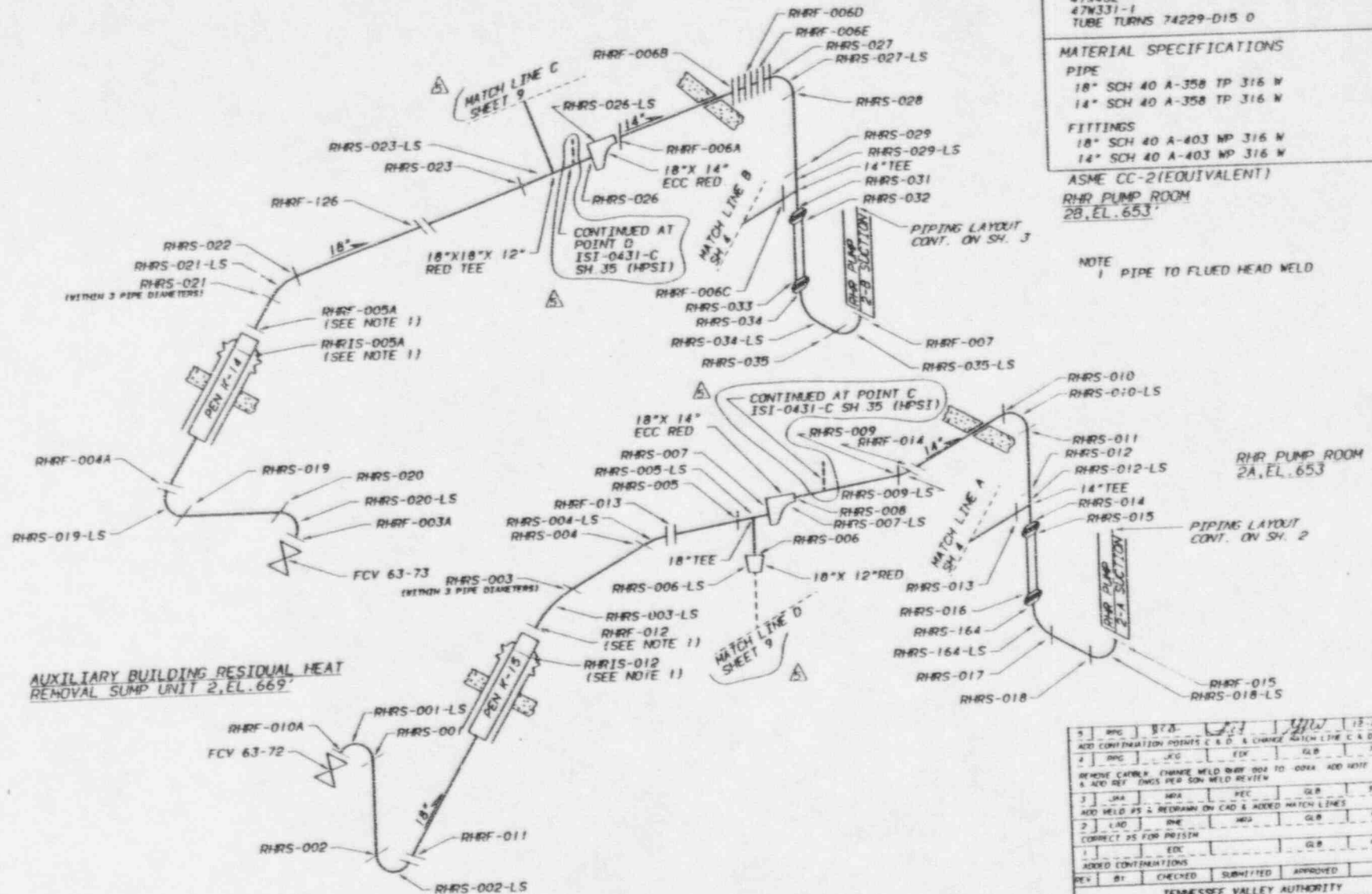
1	WPG	SIS	LS	WV	12-16-98
IDENTIFY EXCLUDED PIPING AND ADD MATCH LINE 2					
2	WPG	EDC	JCS	GLB	11-15-94
REMOVE FE-63-085 IDENTIFIER PER FDOT 94-04					
6	WPG	JCS	EDC	GLB	7-9-92
THE FOLLOWING CHANGES PER SON WELD REVIEW CHANGE WELD SIF #18 TO SIS #14. CORRECT CONFIGURATION. & ADD INTERFERENCE DRAWINGS					
9	WPG	PVD	JCS	GLB	12-2-91
ADD WELD SIF-11 AND MAKE CAD					
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
SAFETY INJECTION (LOOP 1)					
WELD LOCATIONS					
DRAWN	DATE	SCALE NOT TO SCALE			
CHECKED EDC	APPROVED GLB	CAD MAINTAINED DRAWING REV			
SUBMITTED EDC	ISI-0002-C-05				08



REFERENCE DRAWING:
 NAVCO A-7453
 47432
 47W331-1
 TUBE TURNS 74229-D15 0

MATERIAL SPECIFICATIONS
 PIPE
 18" SCH 40 A-358 TP 316 W
 14" SCH 40 A-358 TP 316 W
 FITTINGS
 18" SCH 40 A-403 WP 316 W
 14" SCH 40 A-403 WP 316 W
 ASME CC-2(EQUIVALENT)
 RHR PUMP ROOM
 2B, EL. 653'

NOTE
 1 PIPE TO FLUED HEAD WELD

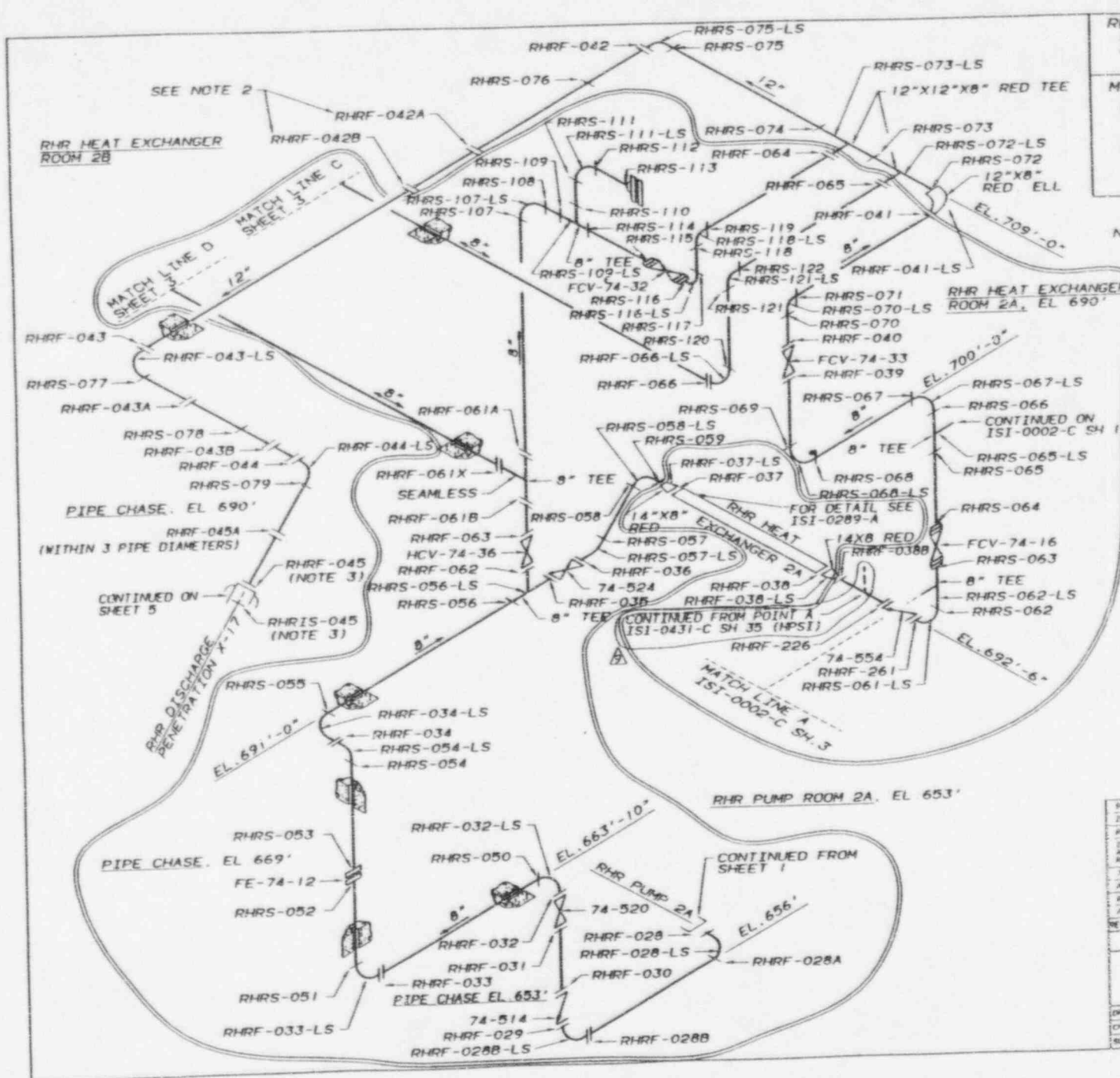


RHR PUMP ROOM
 2A, EL. 653'

PIPING LAYOUT
 CONT. ON SH. 2

AUXILIARY BUILDING RESIDUAL HEAT
 REMOVAL SUMP UNIT 2, EL. 669'

1	WJC	BTJ	WJC	12-16-95
2	ADD CONTINUATION POINTS C & D & CHANGE MATCH LINE C & D TO SH. 9	EDC	GLB	7-8-92
3	REMOVE CABLE & CHANGE WELD 002 TO 003A ADD NOTE & ADD DEF. INCH PER SON WELD REVIEW	WJC	GLB	8-18-88
4	ADD WELD PS & REDRAW IN CAD & ADD MATCH LINES	WJC	GLB	9-9-88
5	CORRECT PS FOR PRISM	EDC	GLB	1-21-91
6	ADD CONTINUATIONS	EDC	GLB	1-21-91
REV	BT	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
RESIDUAL HEAT REMOVAL				
WELD LOCATIONS				
DRAWN	DATE	SCALE	NOT TO SCALE	
CHECKED EDC	APPROVED GLB	CAD MAINTAINED DRAWING	REV	
SUBMITTED EDC	ISI-0003-C-01			05



REFERENCE DRAWINGS
47W432
A-7454

MATERIAL SPECIFICATIONS

PIPE
12" SCH 40 A-358 TP 316 W
8" SCH 40S A-312 TP 316 W

FITTINGS
14" SCH 40 A-403 WP 316 W
12" SCH 40 A-403 WP 316 W
8" SCH 40S A-403 WP 316 W

ASME CC-2 (EQUIVALENT)

NOTES

- THE FITTINGS BETWEEN WELDS RHRS-061A, RHRS-061B, RHRS-061X, RHRS-038A AND RHRS-038B ARE SEAMLESS
- THESE WELDS ARE CONSIDERED STRUCTURAL DISCONTINUITIES DUE TO FLOW RESTRICTORS
- RHRS-045 & RHRS-045 ARE FLUED HEAD WELDS
- WELD RHRS-061 WAS REPLACED WITH WELD RHRS-261 SAME LOCATION U2C5

THIS PIPING EXCLUDED DUE TO WALL THICKNESS

REV	BY	DATE	DESCRIPTION
1	WJC	12-16-95	IDENTIFY EXCLUDED PIPING AND ADD CORRELATION POINT A
2	WJC	11-27-92	INCORPORATE COT 92-09 BY REMOVING WELDS RHRS-061, RHRS-038A, ADDING WELD RHRS-226, 261, AND ADDING VALVE 74-554. REDRAW ON CAD AND ADD 14" FITTING SPEC
3	WJC	11-29-91	ADD NOTE 3 AND MATCH LINE D
4	WJC	12-7-87	ADD L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
5	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
6	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
7	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
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9	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
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98	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
99	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS
100	WJC		ADDED L5 WELDS, MAKE CAD AND OTHER MINOR REVISIONS

SEQUOYAH NUCLEAR PLANT
UNIT 2
RESIDUAL HEAT REMOVAL SYSTEM
WELD LOCATIONS

SCALE: 1/8" = 1'-0"

DATE: 12-16-95

APPROVED: WJC

CAD MAINTAINED DRAWING: WJC

REVISION: 09

476432
NAVEDO A-7454

MATERIAL SPECIFICATIONS	
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pipit

8" SCH 40S A-312 TP 316 S

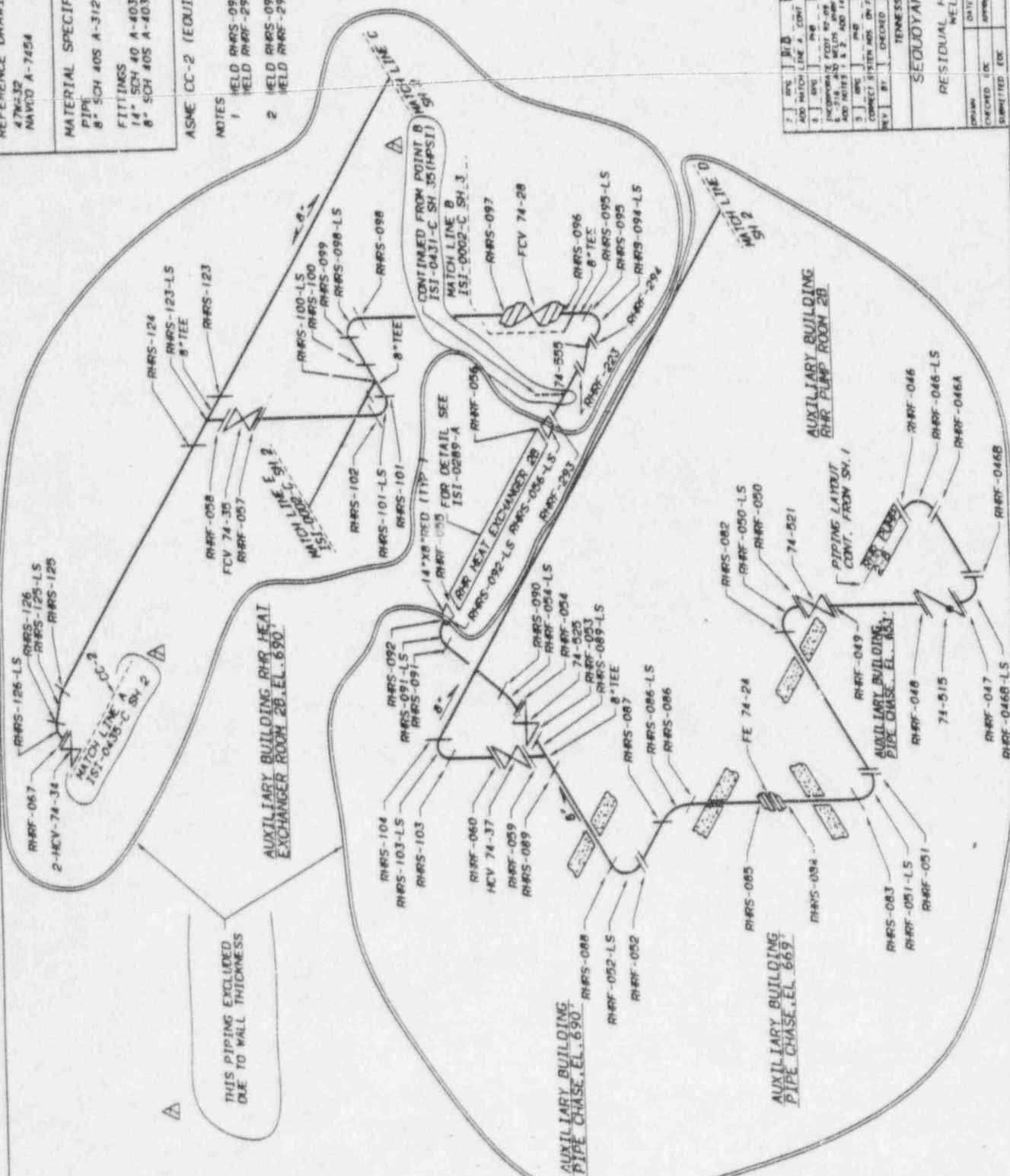
FITTINGS

14" SCH 40 A-403 WP 3/6 W
8" SCH 40S A-403 WP 3/6 W

ACME CC-2 (EQUIVALENT)

1 HELD RHRS-093 WAS REPLACED WITH
HELD RHRS-293 SAME LOCATION U2C5

2 HELD RHRS-094 WAS REPLACED WITH
HELD RHRS-294 SAME LOCATION U2C5

[illegible]

	DATE	CADWATER
REV.	APPROVED BY:	SHEET 4 OF 8 REV.
DRAWN BY:		ISI-0007-C06

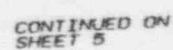
1

12

IWA

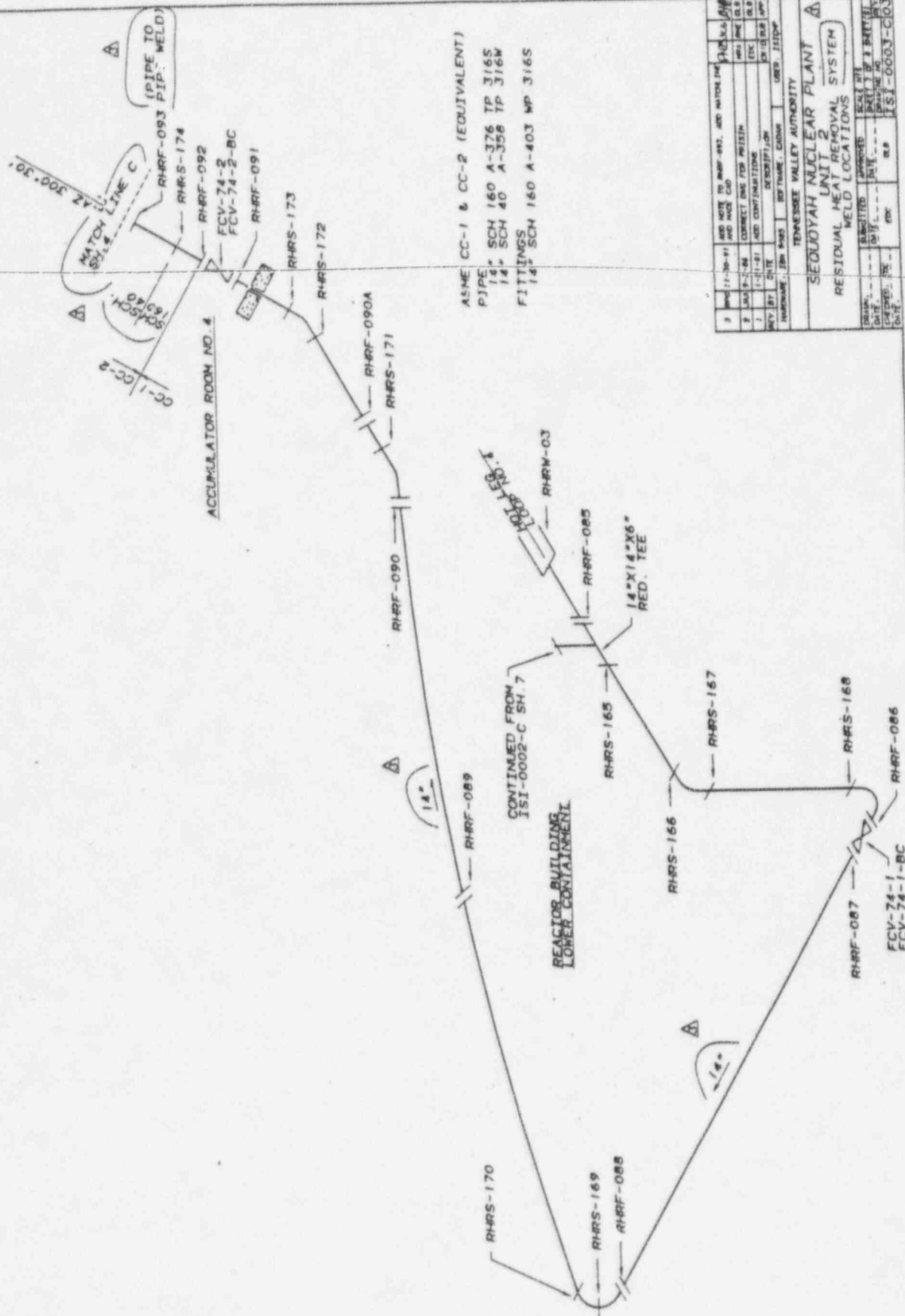
34

Code



3	DPG	12/8	12/8	12-76-88
RETRAINING	ON	CADAM		
2	LAD	ADA	ONE	9-8-88
CONNECT	F	IN POSITION		
1		LOC	CLB	1-21-81
ADD WELD		NO. 8" CONNECTION		
REV	BY	CHECKED	SUBMITTED	APPROVED DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
RESIDUAL HEAT REMOVAL SYSTEM				
WELD LOCATIONS				
ORIGIN		DATE	SCALE MD: TO SCALE	
CHECKED	LOC	APPROVED	CLB	CAD MAINTENANCE DRAWING REV
SUBMITTED	LOC	ISI-0003-C-06		

47W432
NAVCC A-7456

[illegible]

REFERENCE DRAWING

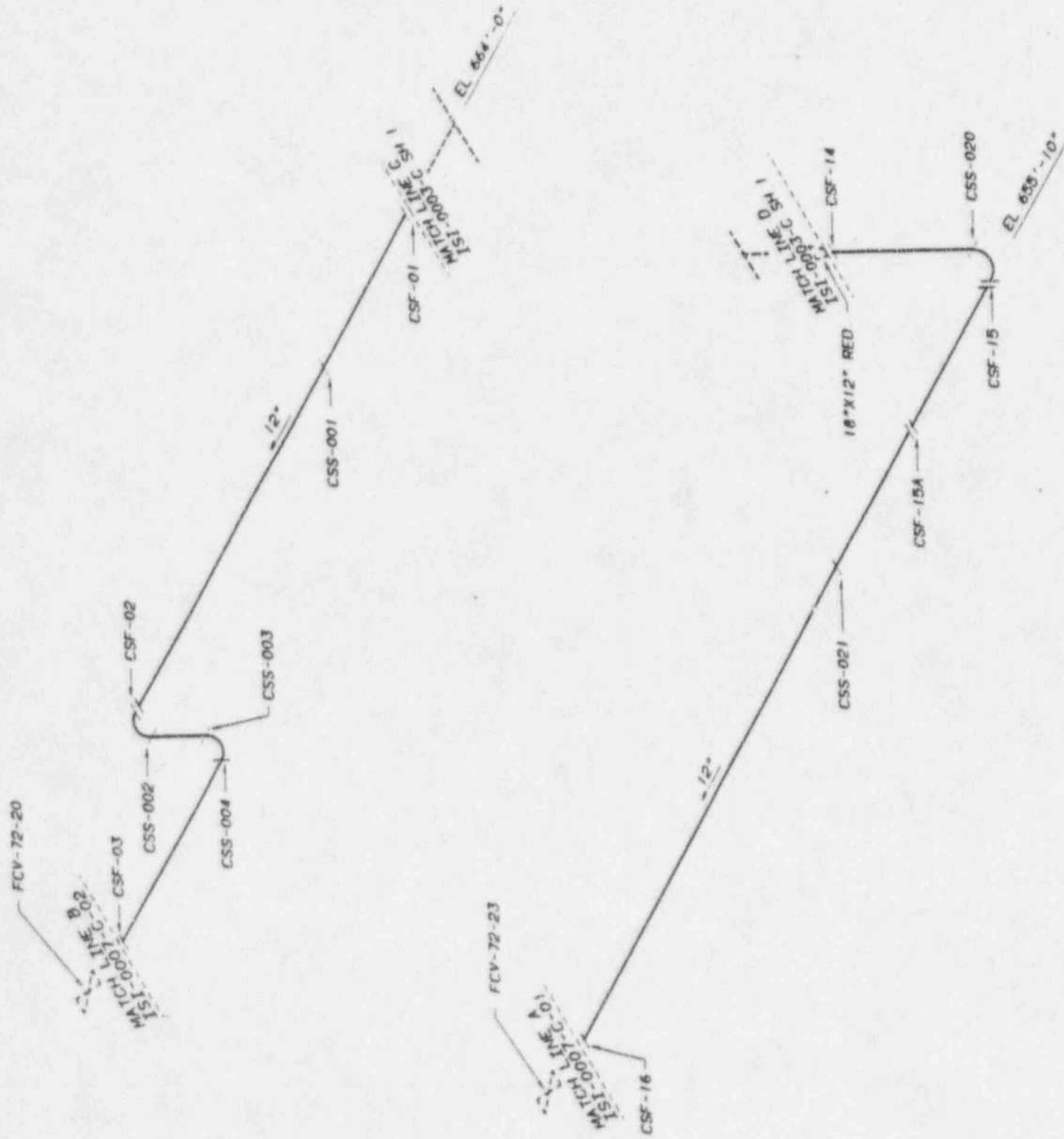
A-7479

MATERIAL SPECIFICATIONS

PIPE
12" SCH 40 SA350 TP316W

FITTINGS
12" SCH 40 SA403 WP316W

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECURITY NUCLEAR PLANT					
UNIT 2					
RESIDUAL HEAT REMOVAL SYSTEM					
WELD LOCATIONS					
DATE	12-16-95	SCALE	NOT TO SCALE		
CHECKED	WJW	CAD	MINIPLANT	DATE	09
DATE	12-16-95	SCALE	NOT TO SCALE		
ISI-0003-C-09					

REFERENCE DRAWINGS
A-7476

MATERIAL SPECIFICATIONS

PIPE
20" SA358 TP304 WELDED (0.375 WALL)

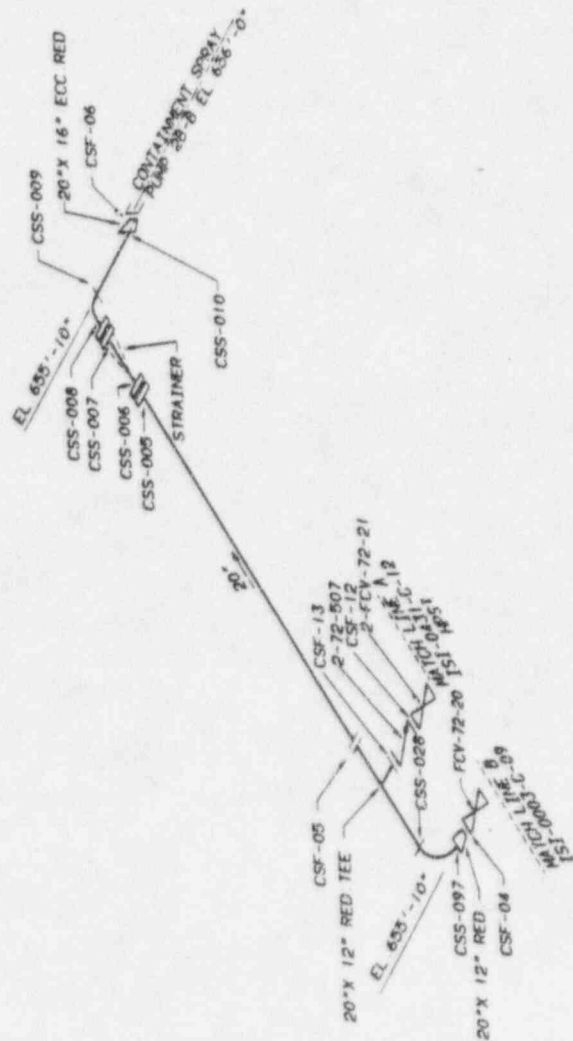
FITTINGS

12" SCH 40 SA403 WP316W
20" SCH 40S SA403 WP304W
20"X16" ECC RED SCH 40S SA403 WP304W

FLANGES

20" SCH 40S SA102 F304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DESIGN BY		DATE 12-26-95	SCALE	NOT TO SCALE	
CHECKED BY		APPROVED	DATE	DATE	
SUBMITTED					
ISI-0007-C-02					
100					

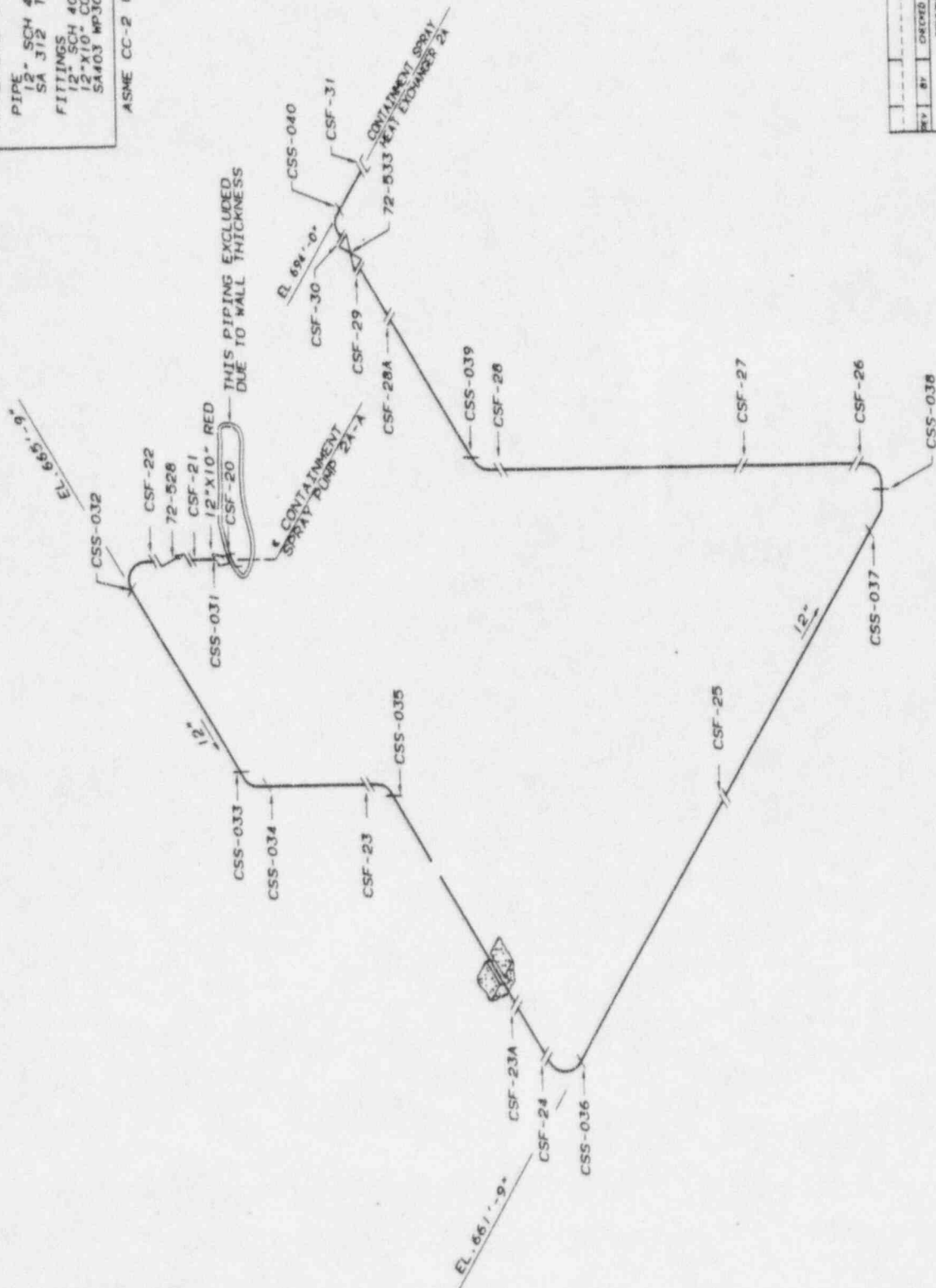
REFERENCE DRAWINGS
A-7479

MATERIAL SPECIFICATIONS

PIPE
12" SCH 40S
SA 312 TP304 WELDED

FITTINGS
12" SCH 40S SA 403 WP304W WELDED
12" X 10" CON RED SCH 40S
SA 403 WP304 WELDED

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					
SENOYAH NUCLEAR PLANT					
TENNESSEE VALLEY AUTHORITY					
UNIT 2					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DESIGN	REV	DATE	12-18-75	SCALE	NOT TO SCALE
CHECKED	REV	DATE	12-18-75	CAD	MAINTAINED DRAWING
SUBMITTED	REV	DATE	12-18-75	ISI	0007-C-03
					100

REFERENCE DRAWINGS
A-7481, A-7482

MATERIAL SPECIFICATIONS

PIPE
12" & 8" SCH 40S
SA312 TP304 WELDED

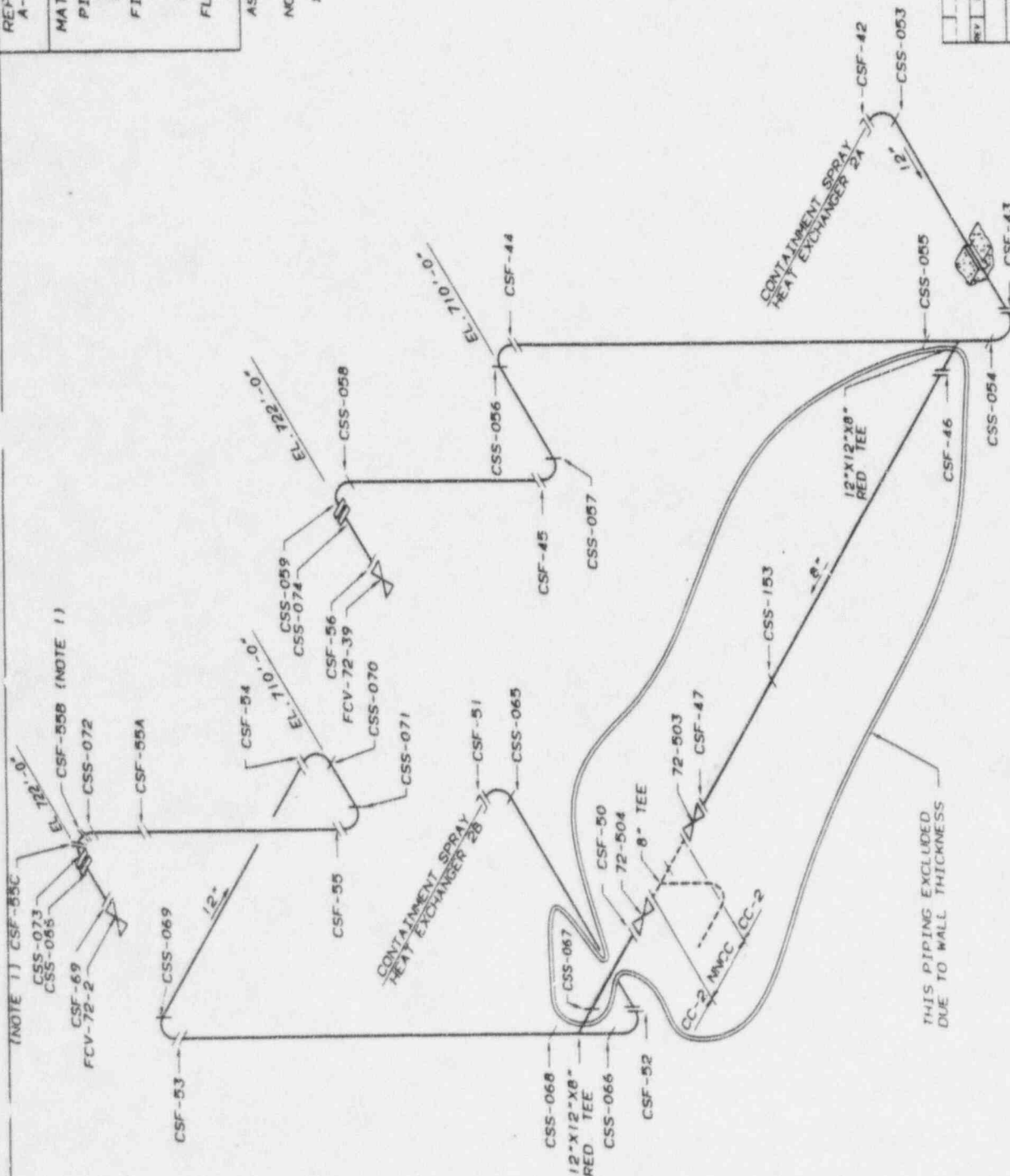
FITTINGS
12" SCH 40S SA403 WP304M
12"x12"x8" RED TEE SCH 40S
SA403 WP304M WELDED

FLANGES
12" SA182 F304

ASME CC-2 (EQUIVALENT)

NOTE

1. THESE WELDS ARE CUTS ON THE SAME ELBOW



THIS PIPING EXCLUDED
DUE TO WALL THICKNESS

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
<p> TENNESSEE VALLEY LEAD AUTHORITY SEOUJOYAH NUCLEAR PLANT UNIT 2 CONTAINMENT SPRAY RELEASE LOCATIONS </p>					
ISSUED	BY	DATE	12/18/95	SCALE	NOT TO SCALE
CHECKED	BY	APPROVED	DATE	CAD	MANUFACTURED
151	151	151	151	151	151

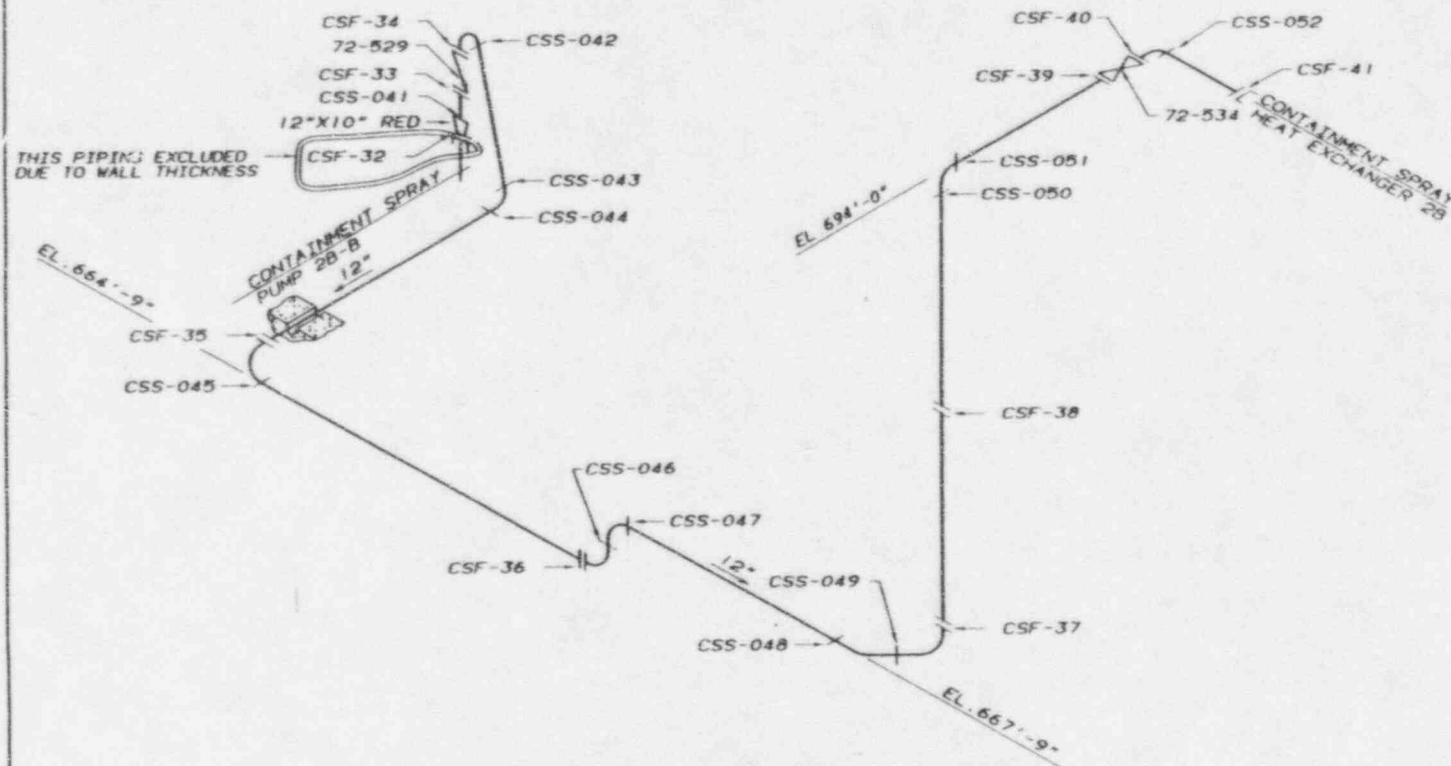
REFERENCE DRAWINGS
A-7480

MATERIAL SPECIFICATIONS

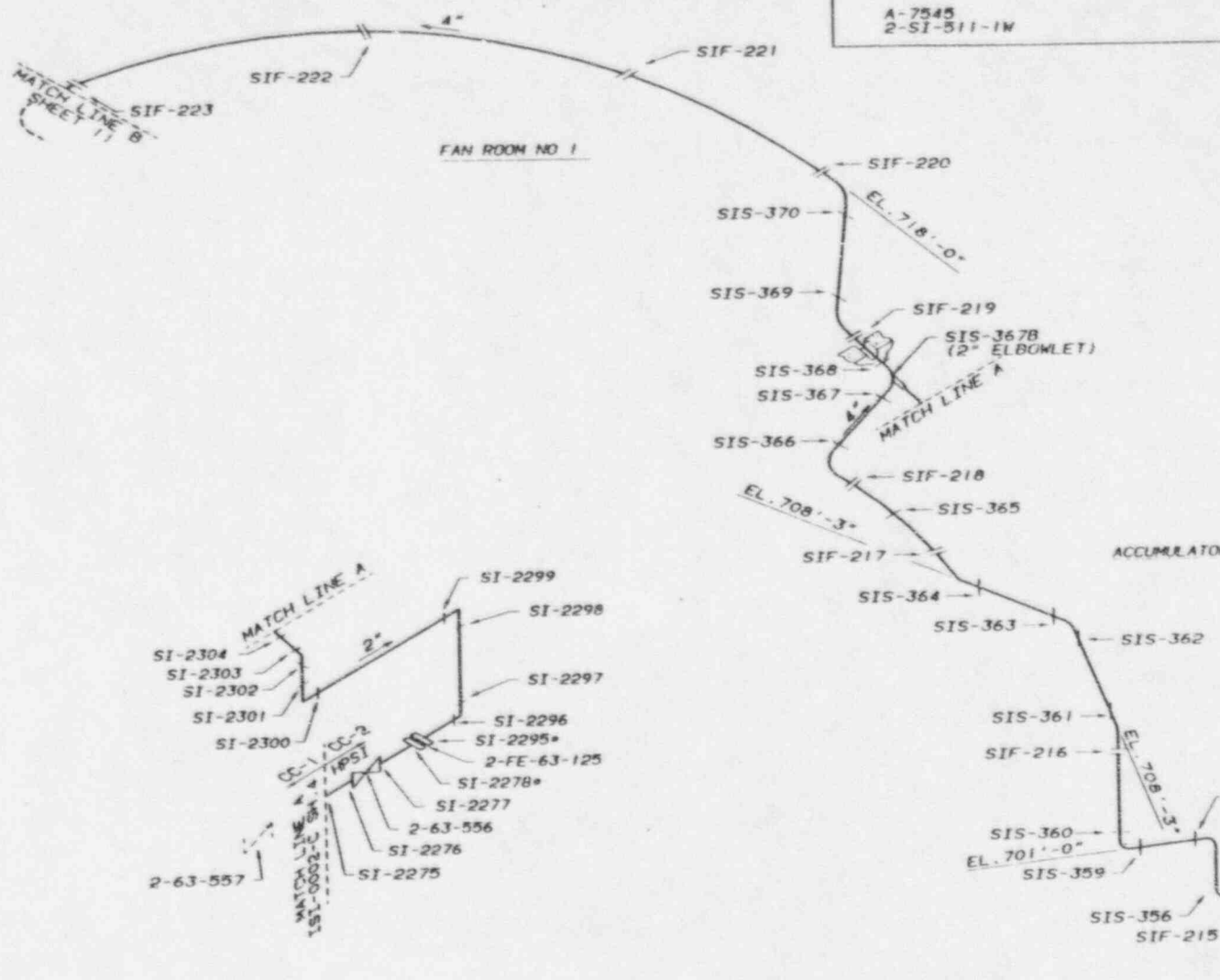
PIPE
12" SCH 40S
SA312 TP304 WELDED

FITTINGS
12" SCH 40S SA403 WP304W WELDED
12"X10" CON RED SCH 40S
SA403 WP304W WELDED

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
CONTAINMENT SPRAY					
WELD LOCATIONS					
DRAWN BY	DATE 12-16-95		SCALE NOT TO SCALE		
CHECKED 3:4	APPROVED <i>YH</i>		CADD MAINTAINED DRAWING		
SUBMITTED <i>3:4</i>	ISI-0007-C-05		00		



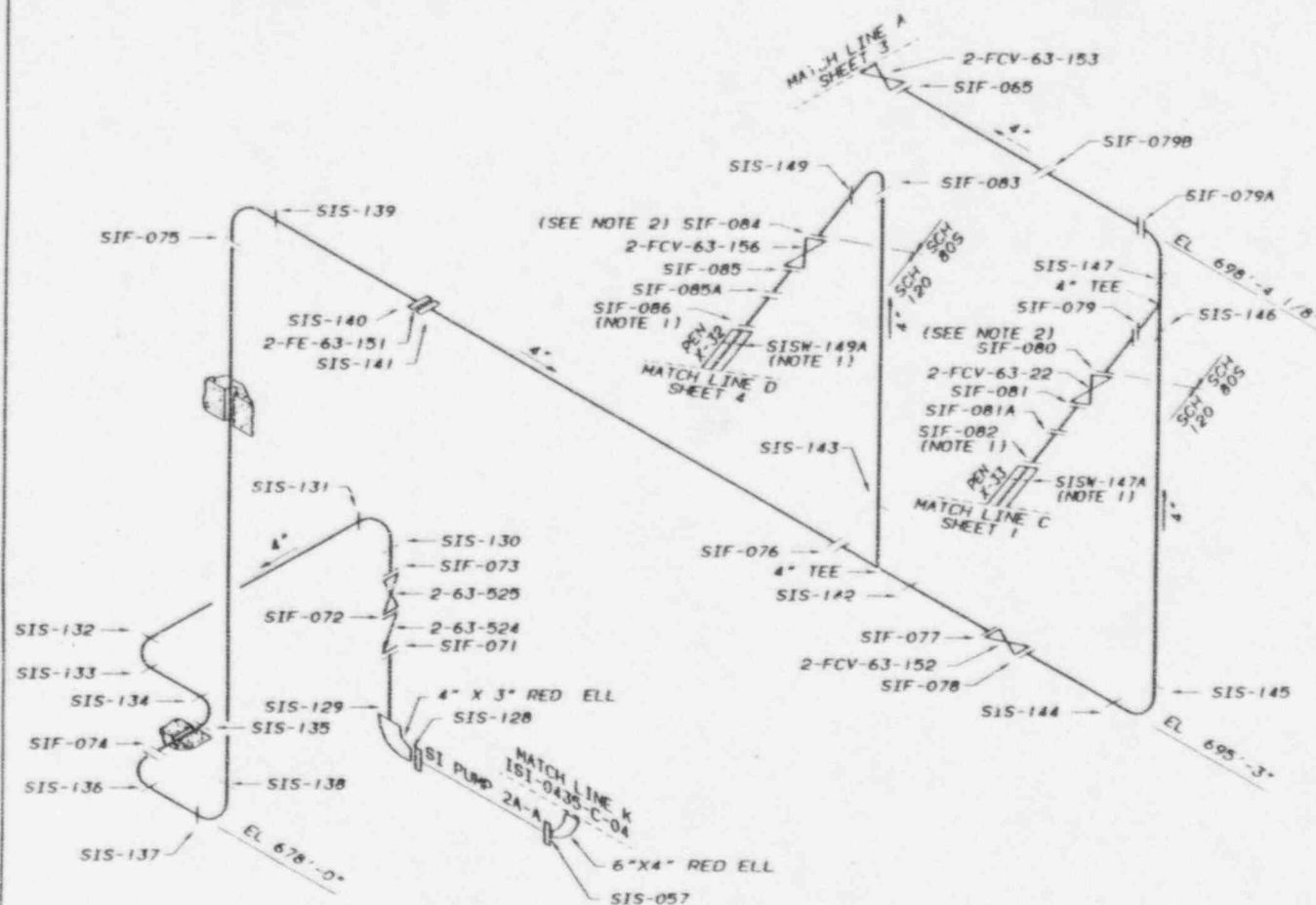
REFERENCE DRAWINGS
 A-7545
 2-SI-511-1W

MATERIAL SPECIFICATIONS
 PIPE
 2" SA376 TP304 SCH 160
 4" SA376 TP316 SCH 120 SEAMLESS
 FITTING
 2" 6000# SA 182 F316
 4" SCH 120 SA 403 WP316 SEAMLESS
 2" EDL SCH 160 SA 182 F304
 FLANGE
 2" 1500# SA 182 F316

ASME CC-2 (EQUIVALENT)

NOTE
 1 - BUTT WELD

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEDOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE 12-16-95		SCALE NOT TO SCALE		
CHECKED <i>Red</i>	APPROVED <i>WV</i>		CND MAINTAINED DRAWING		
SUBMITTED <i>WV</i>	ISI-0431-C-01			100	



REFERENCE DRAWINGS:

A-7454
CONTRACT 92615 DWG 74229-05 0

MATERIAL SPECIFICATIONS:

PIPE
4" SCH 80S SA-312 TP 304 SEAMLESS
4" SCH 120 SA-376 TP 316 SEAMLESS

FITTINGS
4" SCH 80S SA-403 WP 304 SEAMLESS
4" SCH 160 SA-403 WP 304
6"X4" RED ELL SCH 40S
4"X3" SCH 80S SA-403 WP 304 SEAMLESS

FLANGE
3" SCH 80S SA-182 F304
4" SCH 80S SA-182 F304

ASME CC-2 (EQUIVALENT)

NOTES

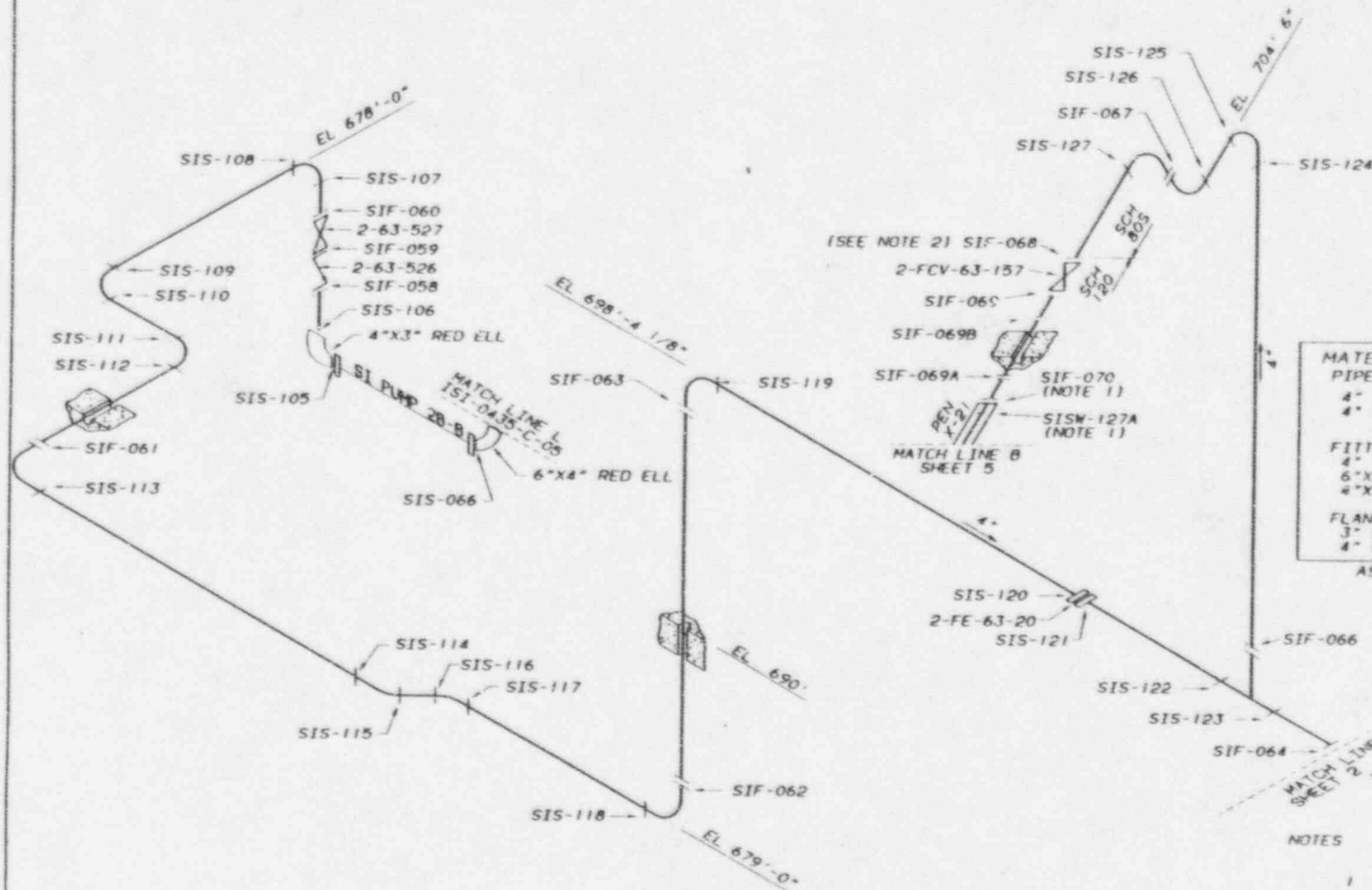
- 1 WELDS SIF-082, SIF-086, SISW-147A, AND SISW-149A ARE PIPE TO FLUID HEAD WELDS
- 2 PIPE I D BUILT-UP TO SCH 120.

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DESIGN: RBC	DATE: 12-16-95	SCALE: NOT TO SCALE			
CHECKED: J.B.	APPROVED: J.B.	CAD MAINTAINED DRAWING: J.B.			
SUBMITTED: J.B.	ISI-0431-C-02		100		

REFERENCE DRAWINGS:

A-7494

CONTRACT 92615 DWG 74229-05 0



MATERIAL SPECIFICATIONS:

PIPE

4" SCH 80S SA-312 TP 304 SEAMLESS
4" SCH 120 SA-376 TP 316

FITTINGS

4" SCH 80S SA-403 WP 304 SEAMLESS
6"x4" RED ELL SCH 40S
4"x3" RED ELL SCH 80S SA-403 WP 304 SEAMLESS

FLANGE

3" SCH 80S SA-182 F304
4" SCH 80S SA-182 F304

ASME CC-2 (EQUIVALENT)

NOTES

- 1 WELDS SIF-070 AND SISW-127A ARE PIPE TO FLUED HEAD WELDS
- 2 PIPE I D BUILT-UP TO SCH 120

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN	DATE	DATE	DATE	DATE	DATE
12/26/95	12/26/95	12/26/95	12/26/95	12/26/95	12/26/95
CHECKED	DATE	DATE	DATE	DATE	DATE
12/26/95	12/26/95	12/26/95	12/26/95	12/26/95	12/26/95
SUBMITTED	DATE	DATE	DATE	DATE	DATE
12/26/95	12/26/95	12/26/95	12/26/95	12/26/95	12/26/95
ISI-0431-C-03 00					

A-79544

PIPE 4" SA376 TP316 SCH 120 SEAMLESS

PIPE
4" SA376 TP316 SCH 120 SEAMLESS

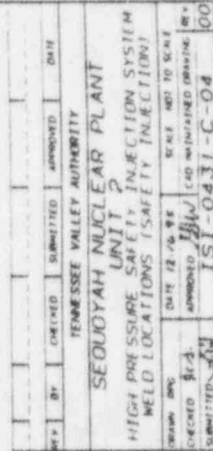
FIFTY-ONE

2" SCH 120 SA 162 F304

4" SCH 120 SA #03 WP316 SEAMLESS

#1"x2" CON RED SCH 120 SA 403 WP316

48487 CC 3 REGIONAL CATHY



MATERIAL SPECIFICATIONS:

PIPE	2" SA3376	IP304	SCH 160	SEAMLESS
	4" SA3376	IP316	SCH 120	SEAMLESS
FITTING	2" SCH	160 SA	182 F304	
	4" SCH	120 SA	405 F316	SEAMLESS
FLANGE	2" SA	182 F316		

ASME CC-2 (EQUIVALENT)



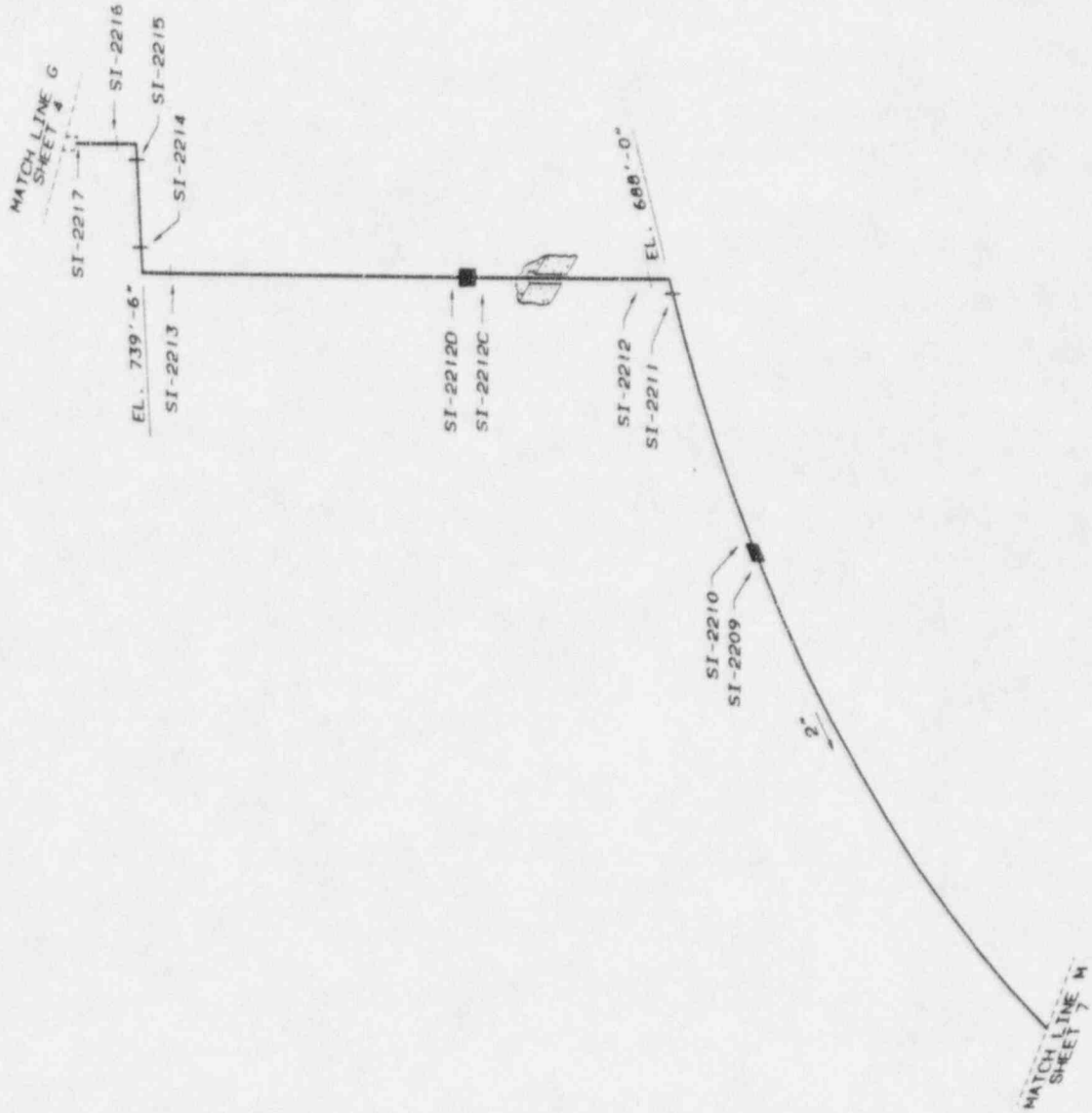
DATE	12-06-68	TIME	1200	TO	SECRET
RECEIVED	844	BY		APPROVED	111-0431-C-05
TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT UNIT 2 HIGH PRESSURE SAFETY TOWER CUM. SYSTEM LEAK IN THERM. SAFETY TOWER THERM.					
APPROVED		DATE		TIME	
RECEIVED		DATE		TIME	

REFERENCE DRAWINGS
2-SI-509-2W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 SA376 TP304
FITTINGS
2" 6000# SA182 F304

ASME CC-2 (EQUIVALENT)



REV. 01 CHECKED SUBMITTED APPROVED DATE

TENNESSEE VALLEY AUTHORITY

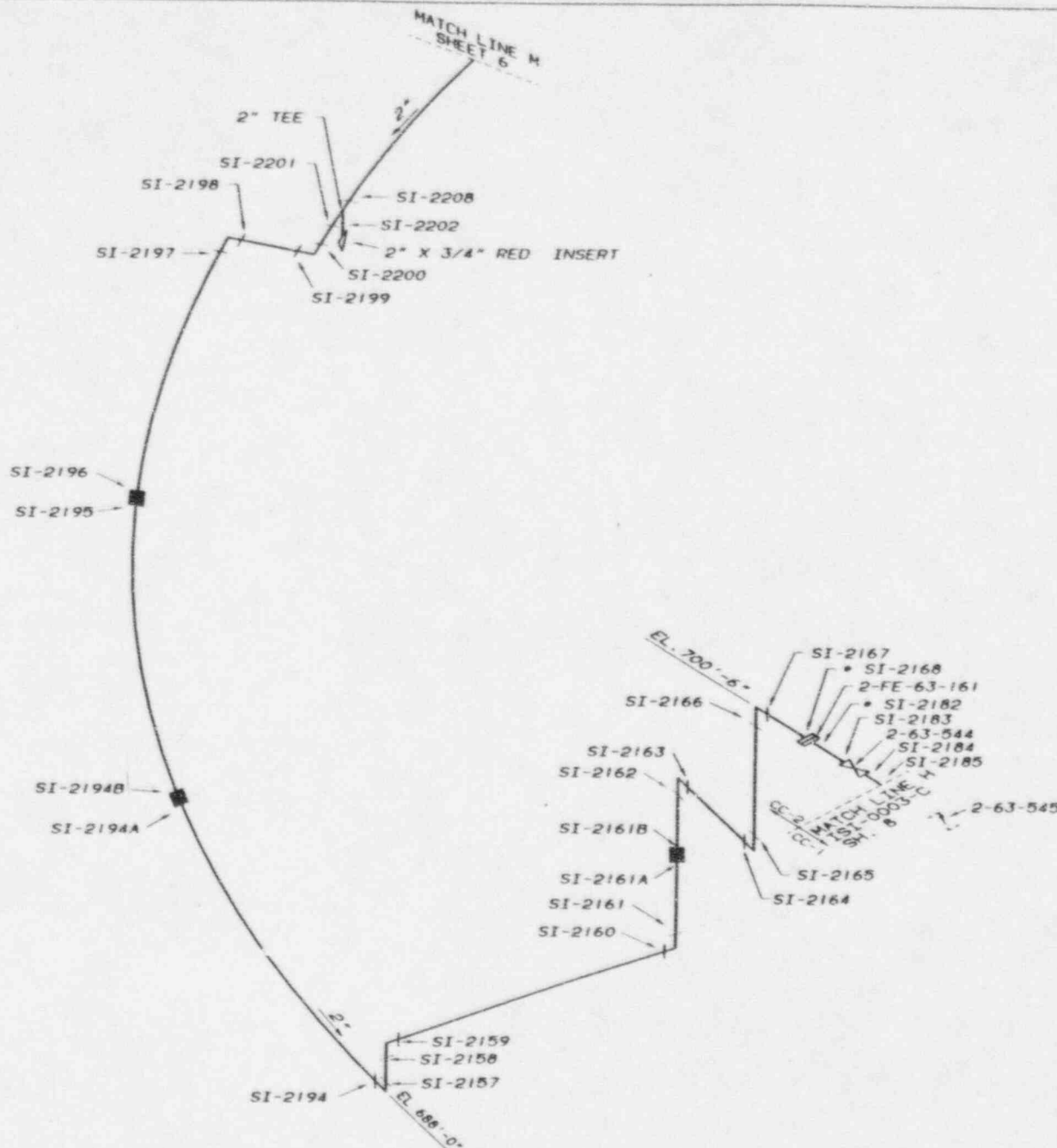
SECOYAH NUCLEAR PLANT

UNIT 2

HIGH PRESSURE SAFETY INJECTION SYSTEM
WELD LOCATIONS (SAFETY INJECTION)

DATE 12/14/95 SCALE NOT TO SCALE
APPROVED [Signature] EEO MAINTAINED DRAWING [Signature]

SUBMITTED [Signature] ISI-0431-C-06 00



REFERENCE DRAWINGS:

2-SI-509-1W
2-SI-509-2W

MATERIAL SPECIFICATIONS:

PIPE

2" SCH 160 SA376 TP304

FITTINGS

2" 6000# SA182 F304

FLANGE

2" 1500# SA182 F316

ASME CC-2 (EQUIVALENT)

NOTE

1 - BUTT WELD

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN: BPC	DATE: 12-26-93		SCALE: NOT TO SCALE		
CHECKED: JED	APPROVED: [Signature]		CAD: MAINTAINED (DRAWING)		
SUBMITTED: [Signature]	ISI-0431-C-07 00				

REFERENCE DRAWINGS:

2-SI-510-1W
2-SI-510-2W

MATERIAL SPECIFICATIONS:

PIPE
2" SCH 160 SA-376 TP 304

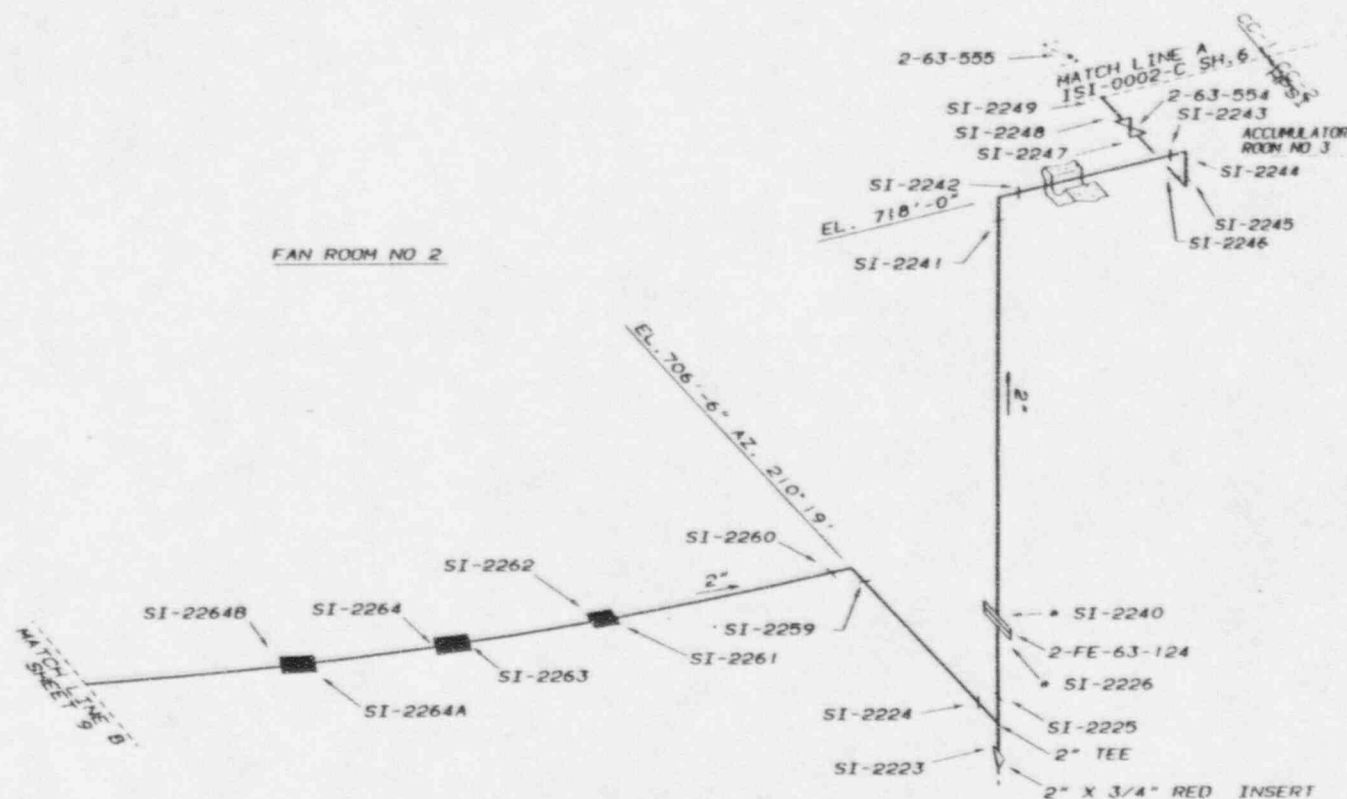
FITTINGS
2" 6000# SA-182 F304

FLANGE
2" 1500# SA182 F316

ASME CC-2 (EQUIVALENT)

NOTE

1 * - BUTT WELD



DESIGNED BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY				
SEQUOYAH NUCLEAR PLANT				
UNIT 2				
HIGH PRESSURE SAFETY INJECTION SYSTEM				
WELD LOCATIONS (SAFETY INJECTION)				
DRAWN BY	DATE 12-10-85	SCALE NOT TO SCALE		
CHECKED BY	APPROVED BY	CAD MAINTAINED (DRAWING NO.)		
SUBMITTED BY	ISI-0431-C-08 00			

REFERENCE DRAWINGS:

A-7545
2-SI-507-1W
2-SI-510-2W

MATERIAL SPECIFICATIONS:

PIPE 160 SA-376 TP 304
2" SCH 120 SA-376 TP 304
4" SCH 120 SA-376 TP 304

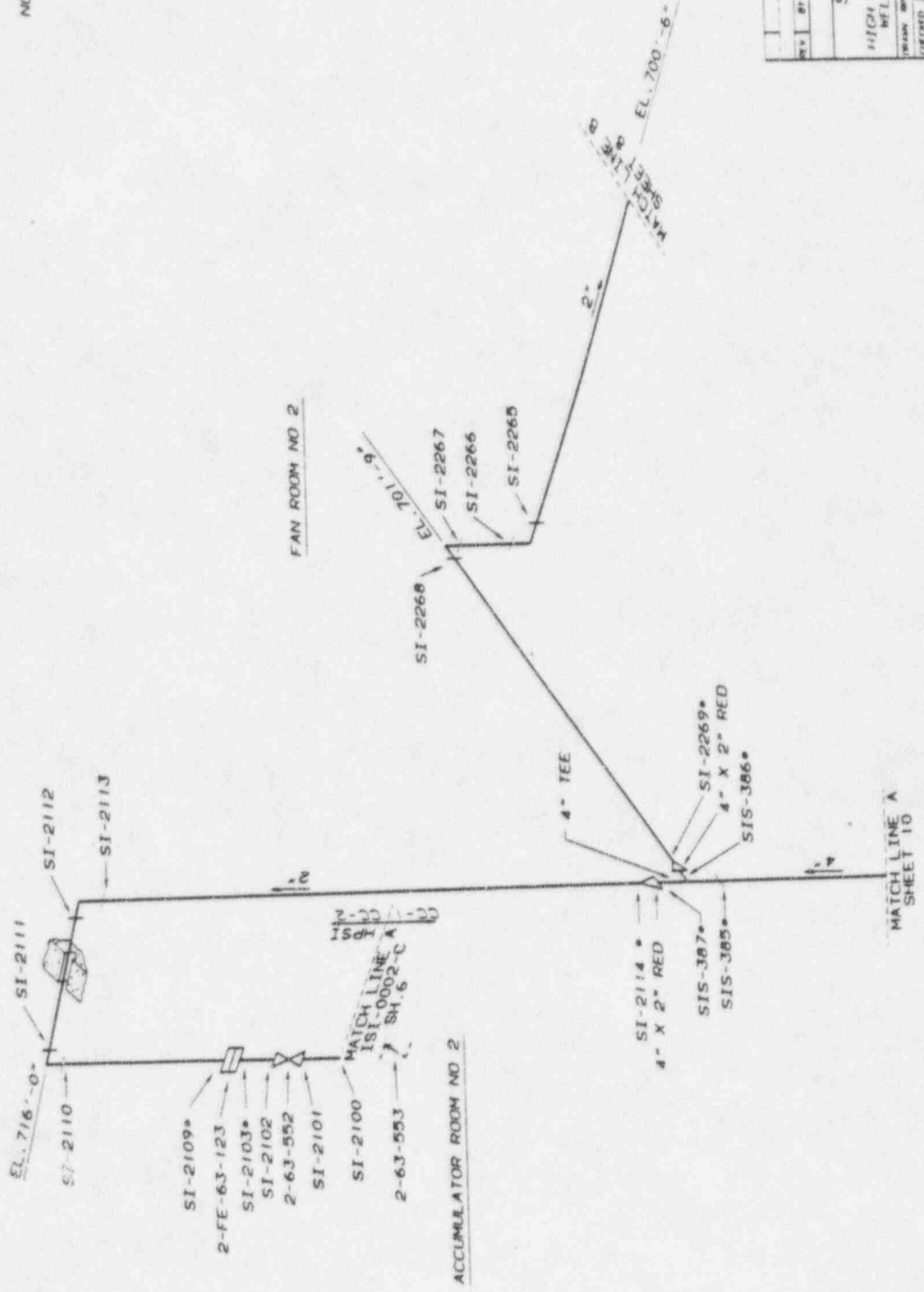
FITTINGS 2" 6000# SA-182 F304
4" SCH 120 SA-403 WP316

FLANGE 2" 1500# SA-182 F316

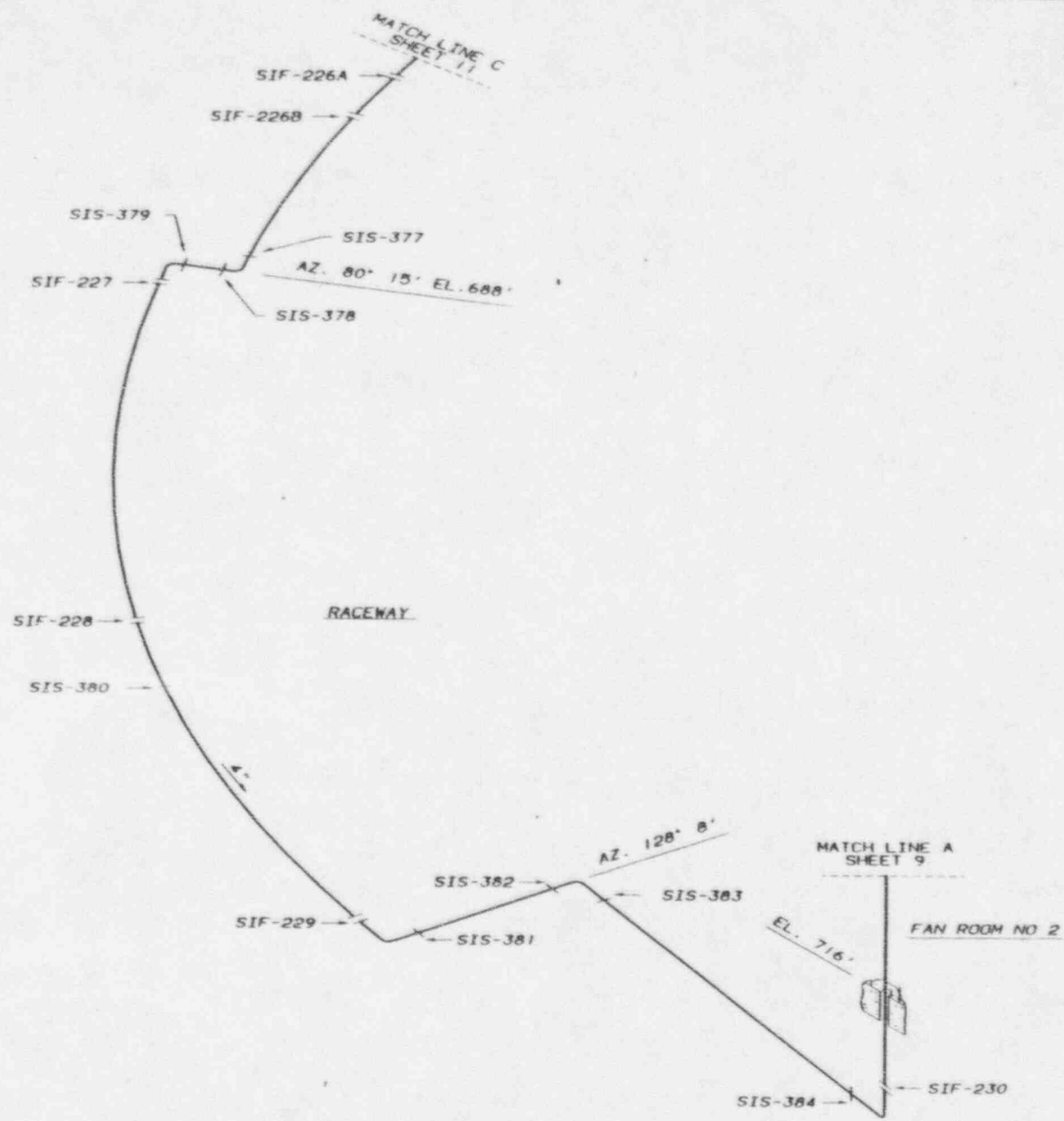
ASME CC-2 (EQUIVALENT)

NOTE

1 - BUTT WELD



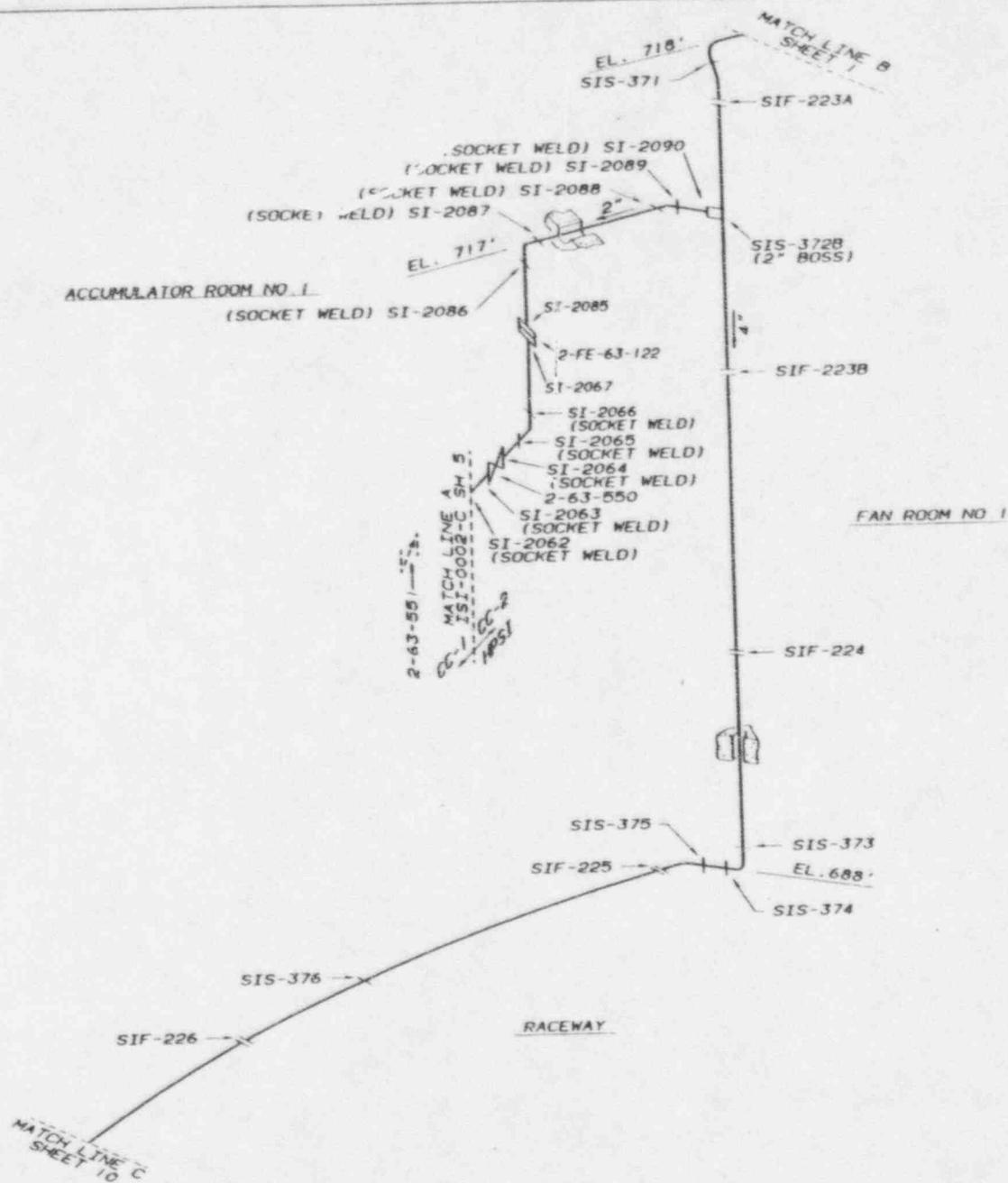
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1					
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS: SAFETY INJECTION					
DESIGNED	DATE	BY	SCALE	WELD TO DATE	REV
1/11/95	1/11/95	1/11/95	1/11/95	1/11/95	1/11/95
SUBMITTED 1/11/95					
ISI-0431-C-09					



REFERENCE DRAWINGS:
A-7545

MATERIAL SPECIFICATIONS:
PIPE
4" SCH 120 SA-376 TP 316 SEAMLESS
FITTINGS
4" SCH 120 SA-403 WP316 SEAMLESS
ASME CC-2 (EQUIVALENT)

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	DATE	12-18-95	SCALE	1" = 10' TO SCALE	
CHECKED BY	APPROVED	HL	CAD MAINTAINED DRAWING	REV	
SUBMITTED BY			ISI-0431-C-10	00	

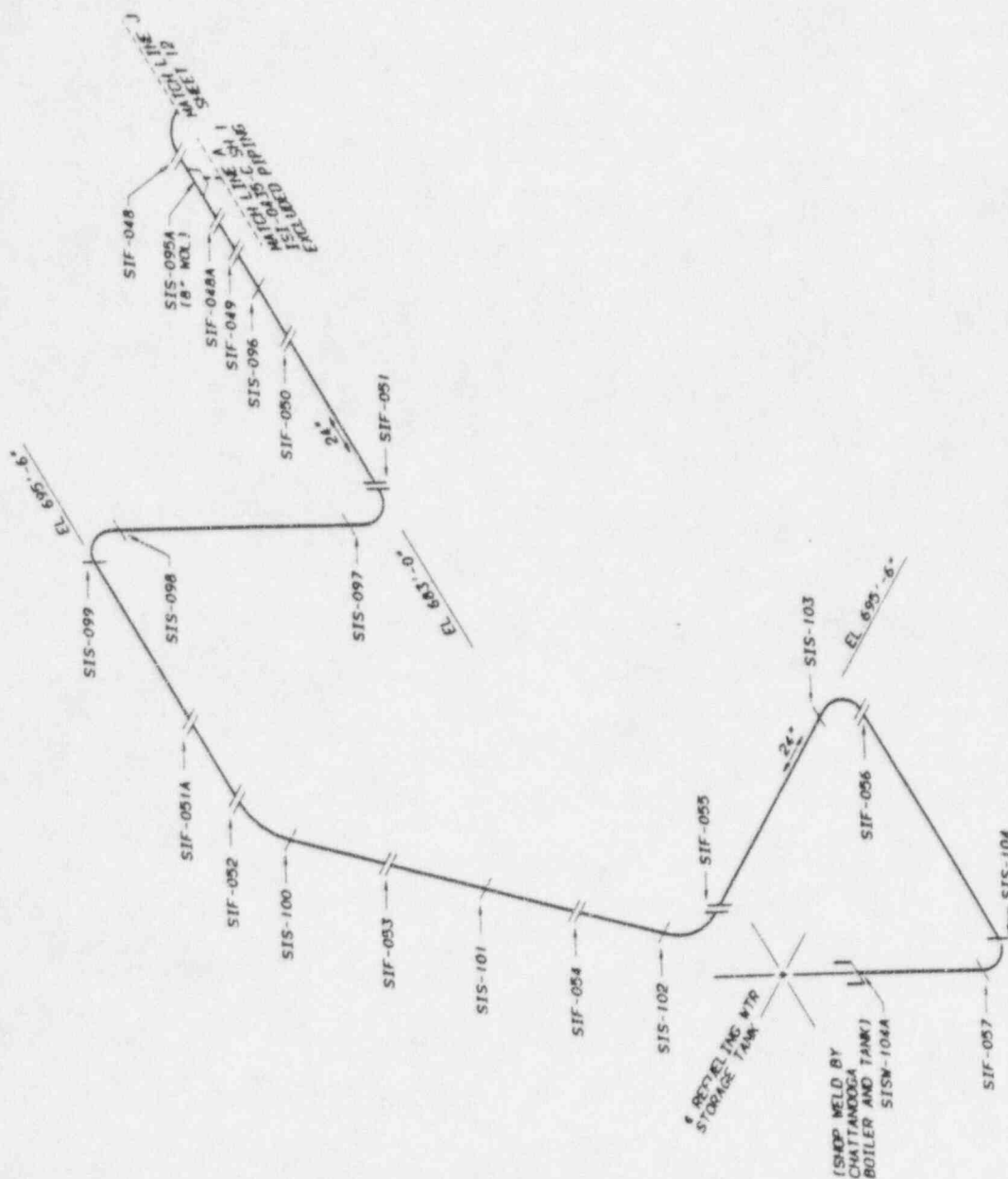


REFERENCE DRAWINGS:
A-7545
2-SI-506-1W

MATERIAL SPECIFICATIONS:
PIPE
2" SCH 160 SA-312 TP 304
4" SCH 120 SA-376 TP 316
FITTINGS
2" 6000# SA-182 F304
4" SA-403 WP 316
FLANGE
2" 1500# SA-182 F316
ASME CC-2 (EQUIVALENT)

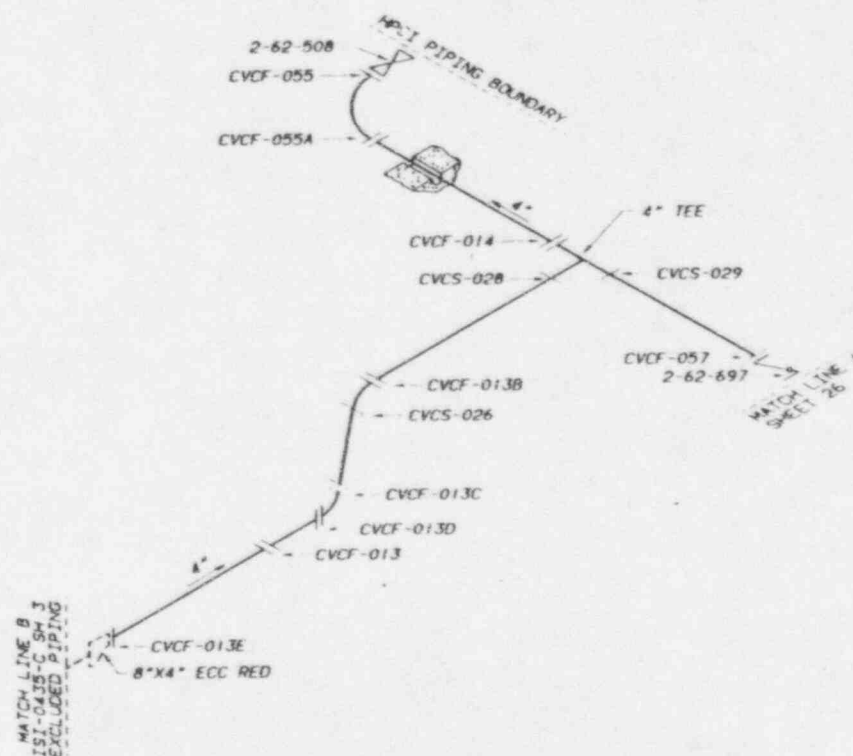
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DESIGN	REV	DATE 12-18-85	SCALE 1/8" = 1'-0"	BY	
CHECKED	REV	DATE 12-18-85	SCALE 1/8" = 1'-0"	BY	
SUBMITTED	REV	DATE 12-18-85	SCALE 1/8" = 1'-0"	BY	
ISI-0431-C-11 100					

ASME CC-2 (EQUIVALENT)

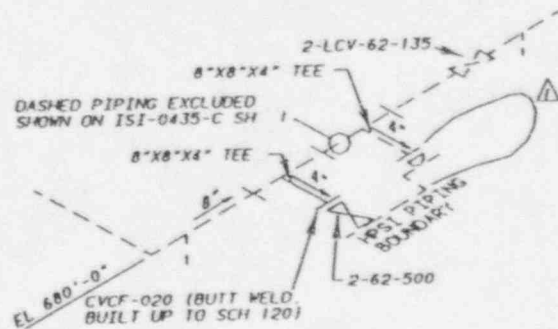


DATE	CHECKED	SUBMITTED	APPROVED	DATE
	BY			
TENNESSEE VALLEY AUTHORITY SEOUJYAH NUCLEAR PLANT HIGH PRESSURE SAFETY INJECTION SYSTEM WELD LOCATIONS, LEAK DETECTION INJECTION SYSTEM CHECKED BY: [Signature] DATE 12-16-93 SCALE NOT TO SCALE APPROVED BY: [Signature] CAD REVISIONS DRAWING 1ST 0431-C-13 00				

REFERENCE DRAWINGS	
A-7438, A-7441, A-7571, 2-UP1-001W	
MATERIAL SPECIFICATIONS	
PIPE	
4" SCH 40S SA312 TP304 SEAMLESS	
FITTINGS	
8"x4" ECC RED SCH 40S A-403 WP304W	
4" SCH 40S A403 WP304W WELDED	
ASME CC-2 (EQUIVALENT)	



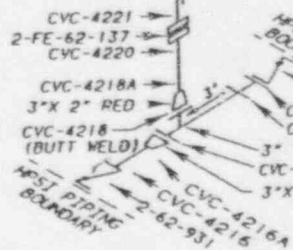
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SYSTEM - RELIEF VALVE SYSTEM					
WELD FOR ALLIGATOR BEARING & SIZE DESIGNATION					
DESIGNED BY	DATE 12-14-75	SCALE 1/2" = 1'-0"			
DESIGNED BY	APPROVED	DATE 12-14-75			
DESIGNED BY	APPROVED	DATE 12-14-75			
IST-0431-C-14 00					



△
PENETRATION ROOM, EL 690'

3\"/>

MATCH LINE B
ISI-0435-C SH 2
EXCLUDED PIPING



CVC-010A
(3\"/>

MATCH LINE A
ISI-0435-C SH
EXCLUDED PIPE

△
PIPE CHASE, EL 669'

REFERENCE DRAWINGS
A-7438
O-CCM-4
O-CVCS-29

MATERIAL SPECIFICATIONS

PIPE
SA312 TP304
4\"/>

FITTINGS
2\"/>

FLANGES
SA182 F304

ASME CC-2 (EQUIVALENT)

1	RPG	10/18/95	2-27-96
ADD NAMES, CAP LINE & REPAIR VALVE 2-42-755 PER FCOT 94-04			
REV	BY	CHECKED	SUBMITTED
Tennessee Valley Authority			
SECOYAH NUCLEAR PLANT			
UNIT 2			
HIGH PRESSURE SAFETY INJECTION SYSTEM			
WELD LOCATIONS (CHEMICAL AND VOLUME CONTROL)			
DRAWN	RPG	DATE	12-18-95
CHECKED	JCS	APPROVED	DLV
SUBMITTED	FWS	CAD MAINTAINED	DRAWING REV
ISI-0431-C-15 01			

REFERENCE DRAWINGS
A-7543 A-7496 A-7497
CONTRACT 92615 DWG 74229-05 0

MATERIAL SPECIFICATIONS

PIPE
3" SCH 160 A376 1P304 SEAMLESS
4" SCH 120 A376 1P316 SEAMLESS

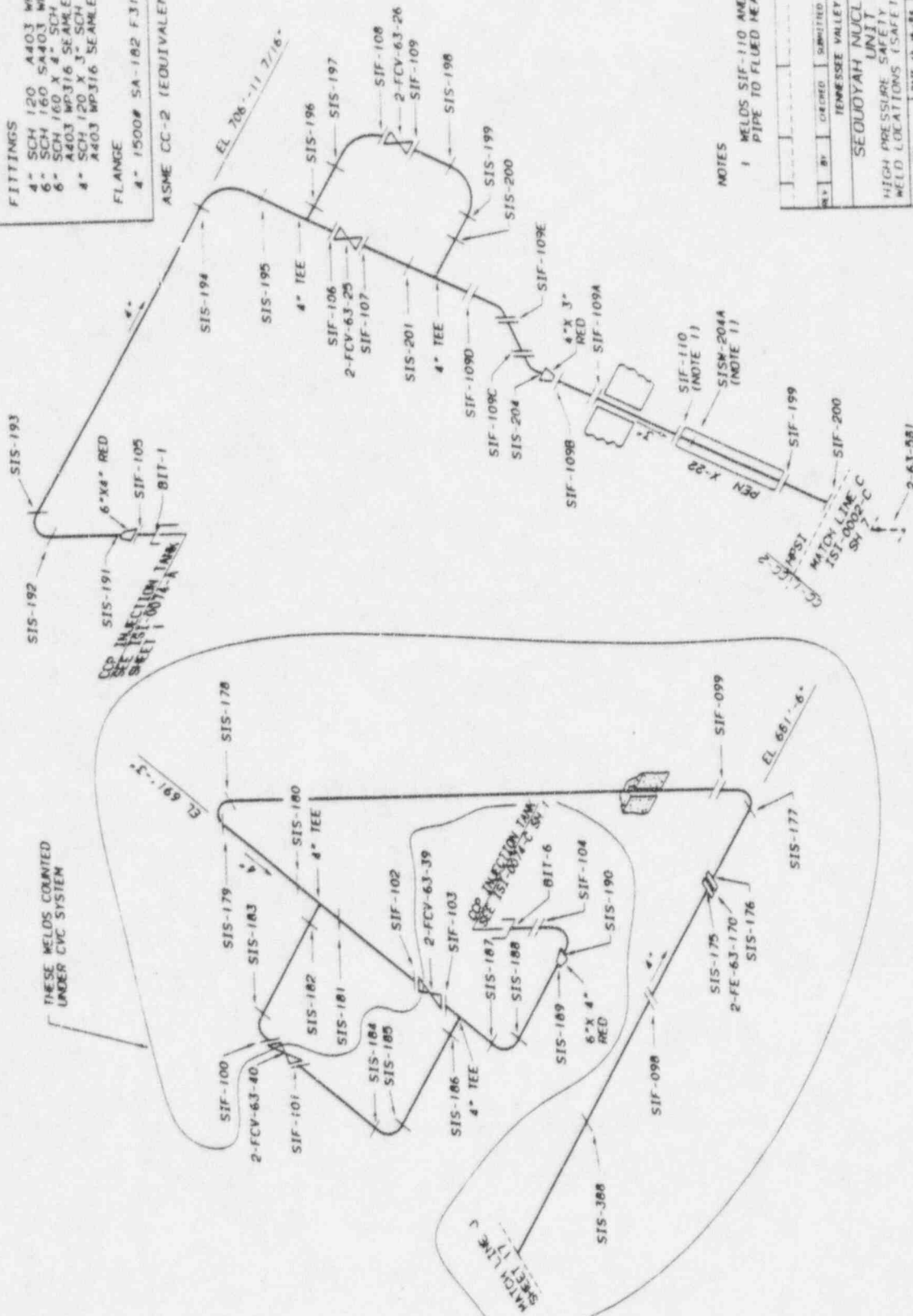
FITTINGS

4" SCH 120 A403 WP316 SEAMLESS
4" SCH 160 A403 WP316
6" SCH 160 X 4" SCH 120 CONC RED
6" SCH 160 X 4" SCH 120 CONC RED
4" SCH 120 X 3" SCH 160 CONC RED
4" SCH 120 X 3" SCH 160 CONC RED
A403 WP316 SEAMLESS

FLANGE

4" 1500# SA-182 F316

ASME CC-2 (EQUIVALENT)



NOTES

- 1 WELDS SIS-110 AND SIS-204A ARE PIPE TO FLUED HEAD WELDS

NO.	BY	CREATED	SUBMITTED	APPROVED	DATE
1					

TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION/CV-1)					
CREATED	NO.	DATE	BY	APPROVED	DATE
1	1	12-18-85	JS	JS	12-18-85
CHECKED	NO.	DATE	BY	APPROVED	DATE
1	1	12-18-85	JS	JS	12-18-85
SCALE: 1/4" = 1'-0"					
SUBMITTED					
ISI-0431-C-16					
100					

REFERENCE DRAWINGS
 A-7439, A-7441, A-7442
 CONTRACT NO. 91934
 MODEL 2 1/2-RLIJ-11 STAGE

MATERIAL SPECIFICATIONS

PIPE

4" SCH 120 A376 TP316 SEAMLESS
 3" SCH 160 A376 TP304 SEAMLESS

FITTINGS

4" SCH 120 A403 WP316 SEAMLESS
 3" SCH 160 A403 WP316 SEAMLESS
 2" SCH 160 A182 F304

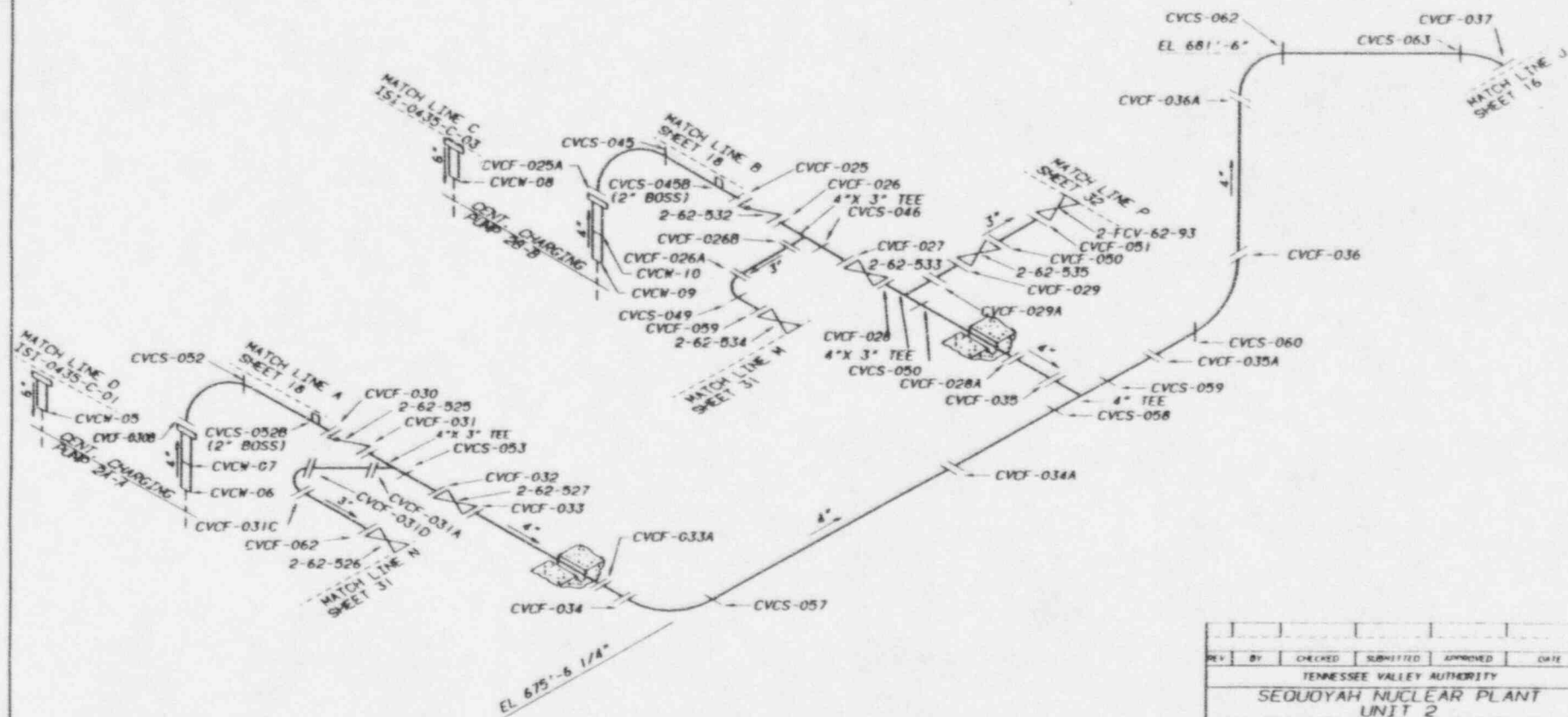
FLANGES

A182 F316

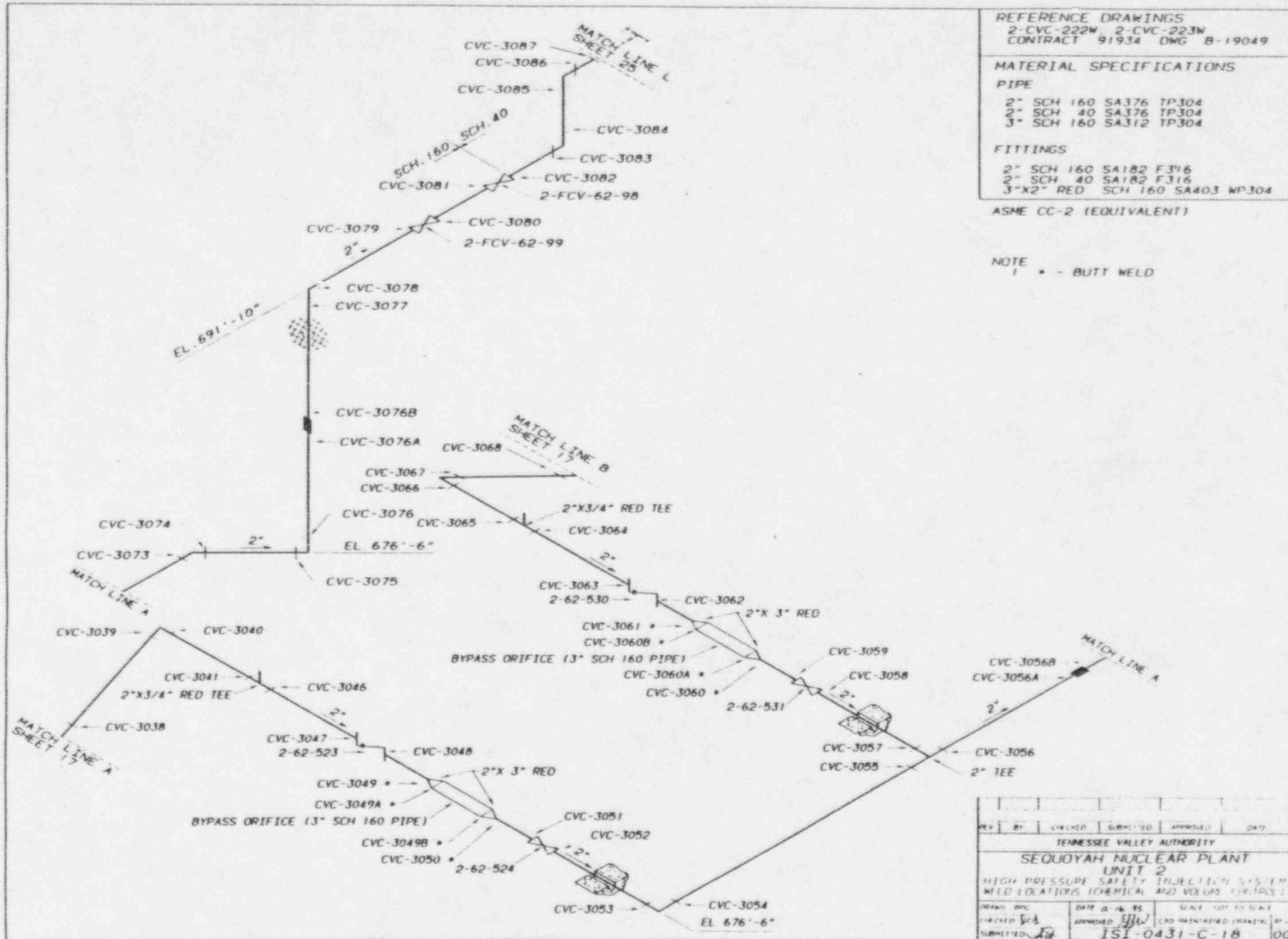
6" SUCTION NOZZLE A182 F304
 WALL THICKNESS $\pm 0.75"$

4" DISCHARGE NOZZLE AND PIPE SECTION
 A182 F304 WALL THICKNESS $\pm 0.90"$

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CHEMICAL AND VOLUME CONTROL)					
DRAWN BY	DATE	11-16-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	11/16/85	CAD	MAINTAINED DRAWING	REV
SUBMITTED	11/16/85	11/16/85	11/16/85	11/16/85	00



REFERENCE DRAWINGS:
2-SI-508-1W

MATERIAL SPECIFICATIONS:

PIPE
2" SCH 160 SA-376 TP 304

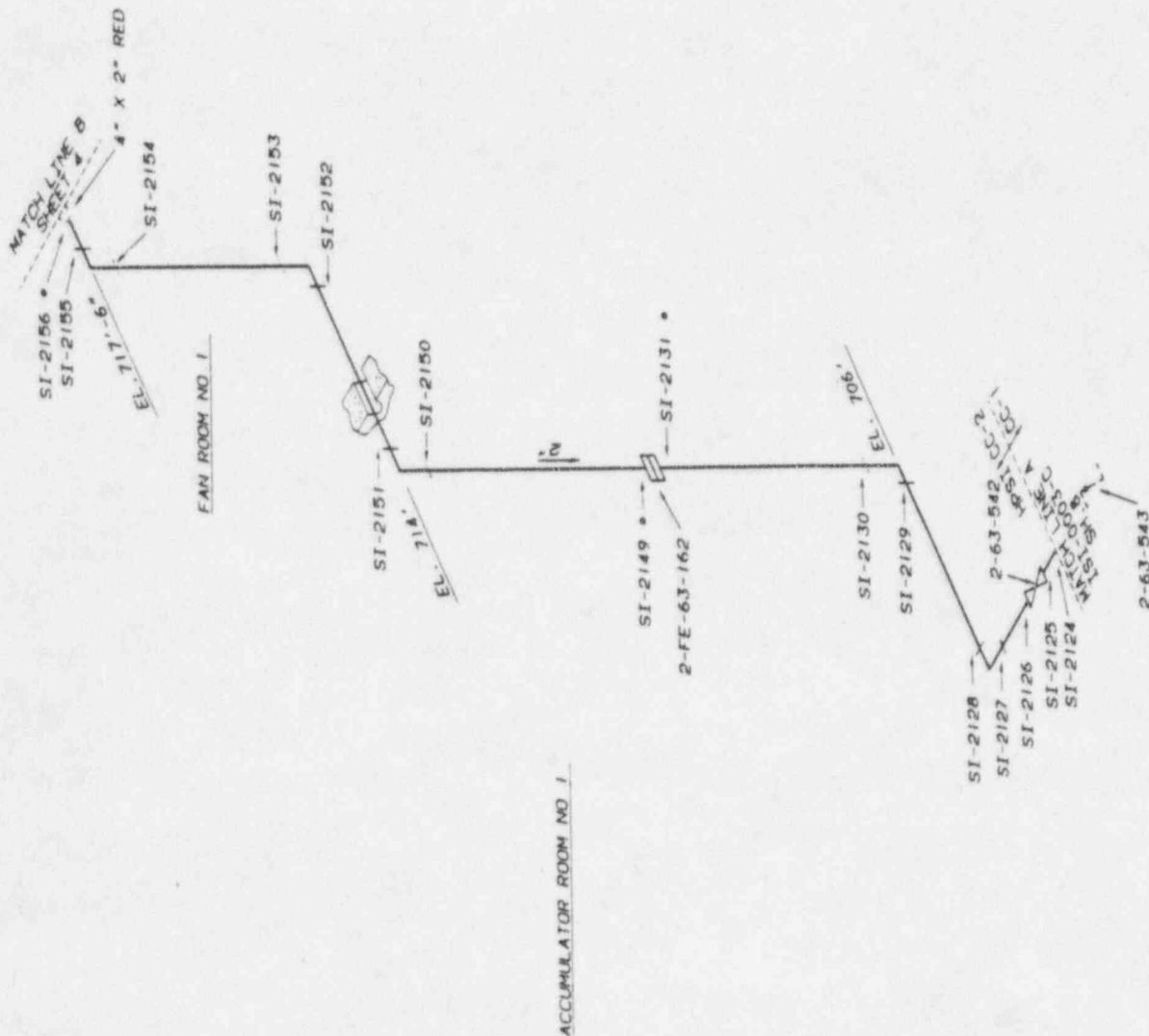
FITTING
3- 60000 SA 1A2 F.304

FLANGE
2" 1500# SA-182 F316

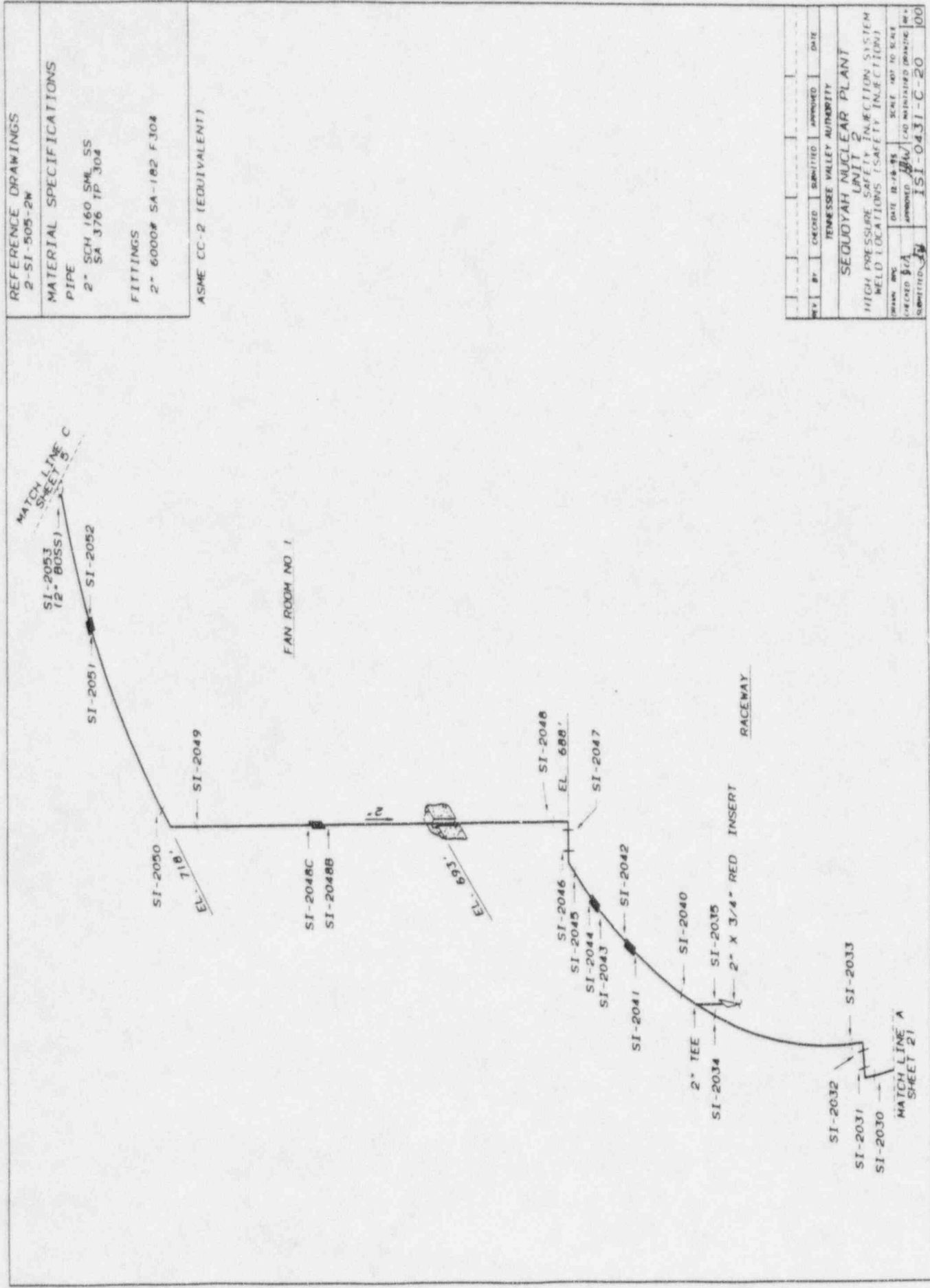
ASME CC-2 (EQUIVALENT)

NOTES

1 • - BUTT WELD



NOV 1974	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT UNIT 2 HIGH PRESSURE SAFETY INJECTION SYSTEM HAZ LOCATIONS (SAFETY INJECTION)				
DATE 12-16-95	SCALE NOT TO SCALE		00 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 3200 3250 3300 3350 3400 3450 3500 3550 3600 3650 3700 3750 3800 3850 3900 3950 4000 4050 4100 4150 4200 4250 4300 4350 4400 4450 4500 4550 4600 4650 4700 4750 4800 4850 4900 4950 5000 5050 5100 5150 5200 5250 5300 5350 5400 5450 5500 5550 5600 5650 5700 5750 5800 5850 5900 5950 6000 6050 6100 6150 6200 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 6800 6850 6900 6950 7000 7050 7100 7150 7200 7250 7300 7350 7400 7450 7500 7550 7600 7650 7700 7750 7800 7850 7900 7950 8000 8050 8100 8150 8200 8250 8300 8350 8400 8450 8500 8550 8600 8650 8700 8750 8800 8850 8900 8950 9000 9050 9100 9150 9200 9250 9300 9350 9400 9450 9500 9550 9600 9650 9700 9750 9800 9850 9900 9950 10000 10050 10100 10150 10200 10250 10300 10350 10400 10450 10500 10550 10600 10650 10700 10750 10800 10850 10900 10950 11000 11050 11100 11150 11200 11250 11300 11350 11400 11450 11500 11550 11600 11650 11700 11750 11800 11850 11900 11950 12000 12050 12100 12150 12200 12250 12300 12350 12400 12450 12500 12550 12600 12650 12700 12750 12800 12850 12900 12950 13000 13050 13100 13150 13200 13250 13300 13350 13400 13450 13500 13550 13600 13650 13700 13750 13800 13850 13900 13950 14000 14050 14100 14150 14200 14250 14300 14350 14400 14450 14500 14550 14600 14650 14700 14750 14800 14850 14900 14950 15000 15050 15100 15150 15200 15250 15300 15350 15400 15450 15500 15550 15600 15650 15700 15750 15800 15850 15900 15950 16000 16050 16100 16150 16200 16250 16300 16350 16400 16450 16500 16550 16600 16650 16700 16750 16800 16850 16900 16950 17000 17050 17100 17150 17200 17250 17300 17350 17400 17450 17500 17550 17600 17650 17700 17750 17800 17850 17900 17950 18000 18050 18100 18150 18200 18250 18300 18350 18400 18450 18500 18550 18600 18650 18700 18750 18800 18850 18900 18950 19000 19050 19100 19150 19200 19250 19300 19350 19400 19450 19500 19550 19600 19650 19700 19750 19800 19850 19900 19950 20000 20050 20100 20150 20200 20250 20300 20350 20400 20450 20500 20550 20600 20650 20700 20	



REFERENCE DRAWINGS		2-SI-505-2W	
MATERIAL SPECIFICATIONS		PIPE	
		2" SCH 160 SML SS	
		SA 376 1P 304	
FITTINGS		2" 6000# SA-182 F304	
ASME CC-2 (EQUIVALENT)			

REV	BY	CHECKED	DESIGNED	DATE

TENNESSEE VALLEY AUTHORITY	
SECOYAH NUCLEAR PLANT	
UNIT 2	
HIGH PRESSURE SAFETY INJECTION SYSTEM	
WELD LOCATIONS (SAFETY INJECTION)	

DATE	SCALE	NOT TO SCALE
12-18-98	AS SHOWN	AS SHOWN
CHECKED BY	DESIGNED BY	DATE
12/18/98	12/18/98	12/18/98
12/18/98	12/18/98	12/18/98

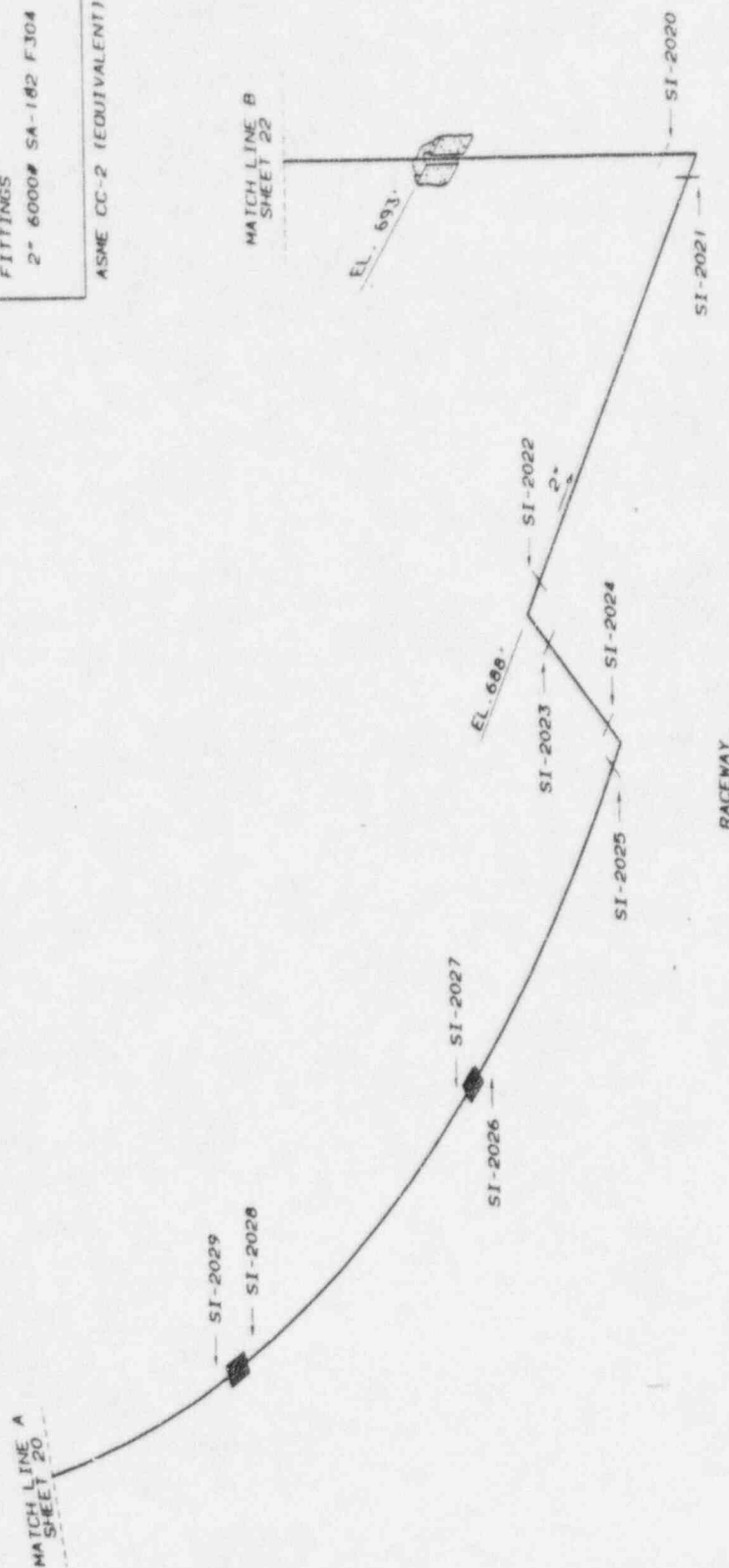
REFERENCE DRAWINGS
2-SI-505-2W

MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 SMC SS
SA 376 TP 304

FITTINGS
2" 6000# SA-182 F304

ASME CC-2 (EQUIVALENT)



REV	BY	CHANGED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SECOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DRAWN BY	ENC	DATE 12-18-81	SCALE NOT TO SCALE		
CHECKED BY	HA	APPROVED BY	WJ		
SUBMITTED BY	SI	ISI-0431-C-21		100	

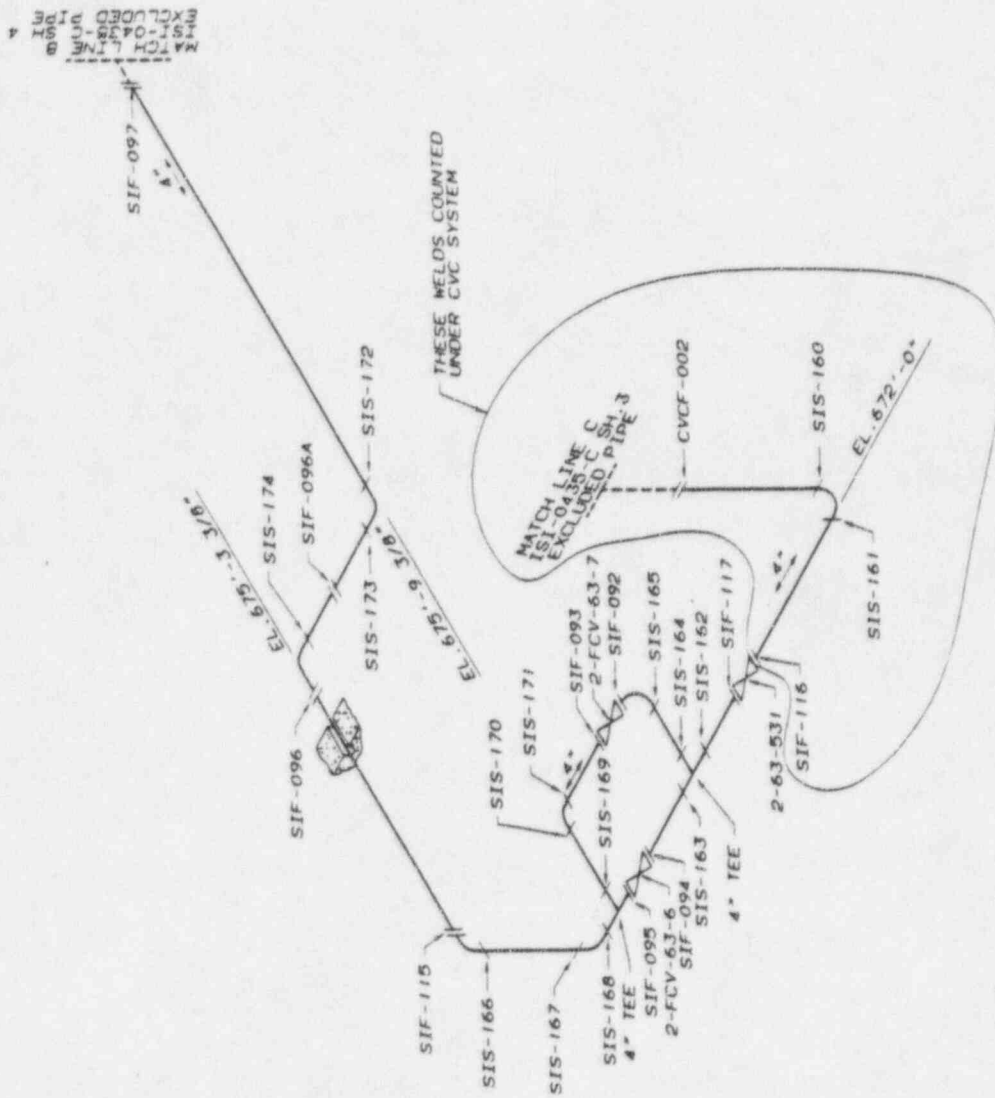
REFERENCE DRAWINGS
A-7495, A-7438

MATERIAL SPECIFICATIONS

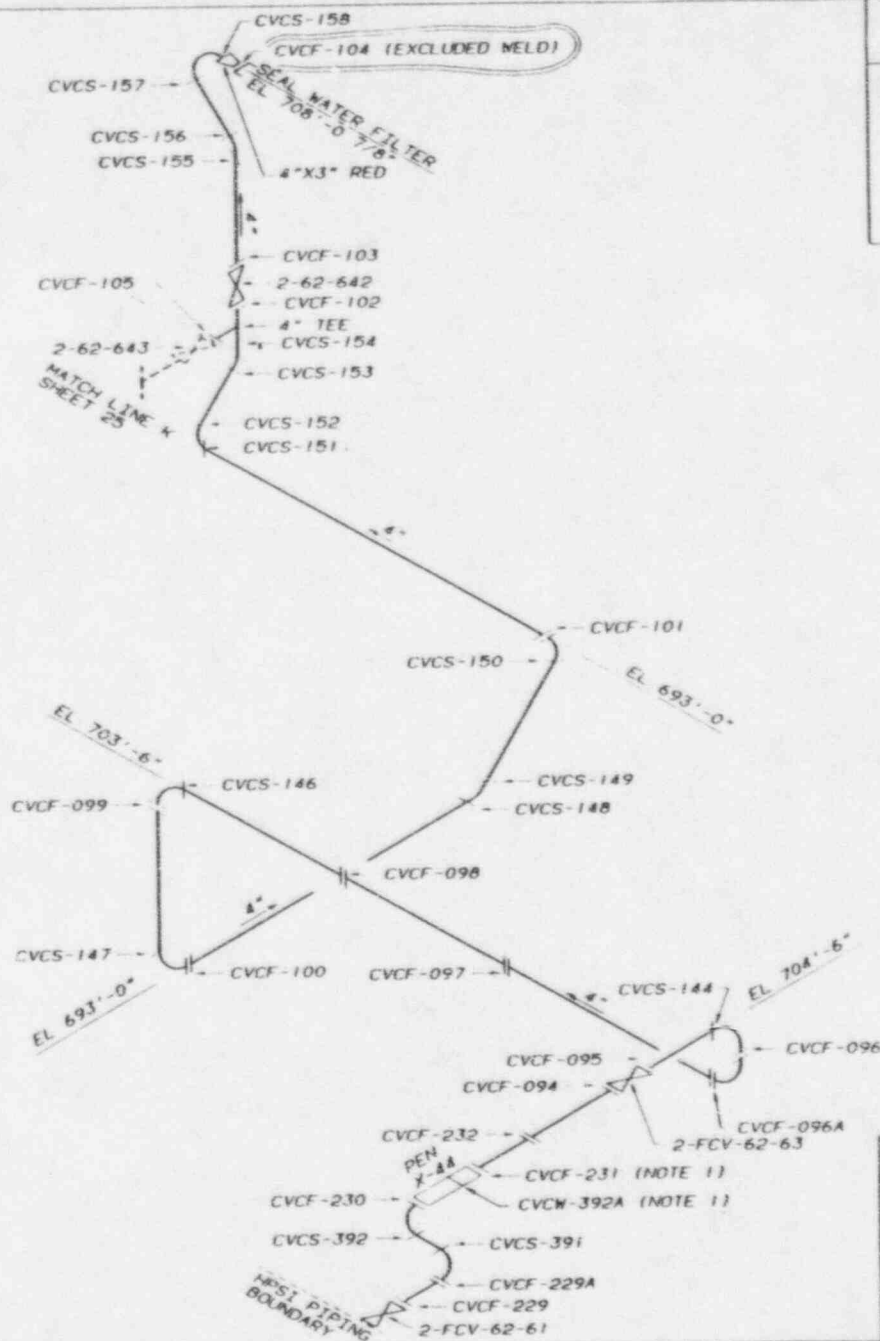
PIPE SCH 40S A312 TP304 SEAMLESS

FITTINGS 4" SCH 40S A403 WP304 WELDED

ASME CC-2 (EQUIVALENT)



REV	BY	CHKD	SUBMITTED	APPROVED	DATE
1					
SEQUOYAH NUCLEAR PLANT					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION-CV-1)					
DESIGNED BY	DATE	12-26-93	APPROVED	DATE	12-26-93
DESIGNED BY	DATE	12-26-93	APPROVED	DATE	12-26-93
SUBMITTED	DATE	12-26-93	APPROVED	DATE	12-26-93
ISI-0431-C-23					

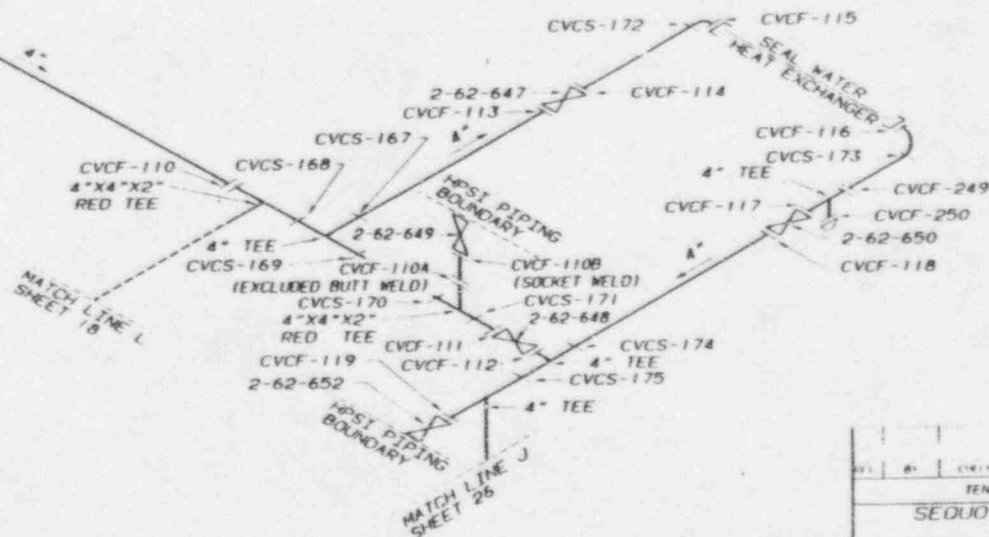
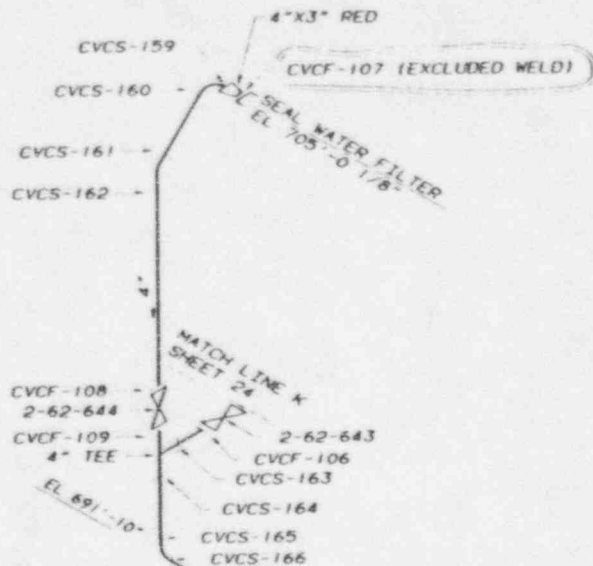


REFERENCE DRAWINGS
 A-7446 A-7553
 CONTRACT 92615 DWG 74229-C7 0

MATERIAL SPECIFICATIONS
 PIPE
 4" SCH 40S A312 TP304 SEAMLESS
 FITTINGS
 4" SCH 40S A403 WP304 WELDED
 4"X3" CONC. RED.
 SCH 40S SA403 WP304 WELDED
 3" END CTR TO SCH 10S
 ASME CC-2 (EQUIVALENT)

NOTE
 1 WELDS CVCF-231 AND CVCW-392A
 ARE PIPE TO FLUED HEAD WELDS

REV	BY	CREATED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CLV 51)					
DESIGNED BY	DATE	12-16-93	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	WV	LEAD	REGISTERED	DRAWING
SUBMITTED	DATE	12-16-93	SCALE	NOT TO SCALE	
ISI-0431-C-24 00					



REFERENCE DRAWINGS
A-7447, A-7448
2-CVC-206W

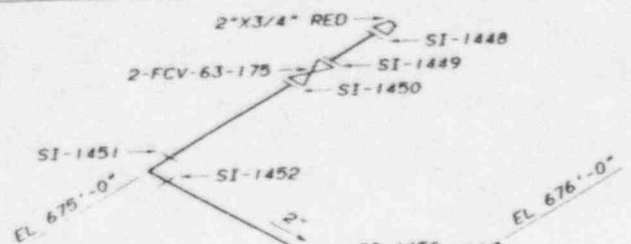
MATERIAL SPECIFICATIONS

PIPE
4" SCH 40S SA312 TP304 SEAMLESS
2" SCH 40S SA376 TP304

FITTINGS
4" SCH 40S SA403 WP304W WELDED
4"X3" CORN. RED
SCH 40S SA403 WP304W WELDED
3" END CTBR TO SCH 10S
4"X4"X2" TEE SCH 40S SA403 WP304

ASME CC-2 (EQUIVALENT)

REV	BY	CREATED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (C.V.S.)					
DRWN: DVC	DATE: 12-28-85	SCALE: 1/2" = 1'-0"			
CHECKED: BJB	APPROVED: BJB	CAD: MATHIAS	DATE: 12-28-85		
SUBMITTED: BJB	ISI-0431-C-25		00		



REFERENCE DRAWINGS
2-SI-51W, 2-SI-63W, 2-SI-63AW

MATERIAL SPECIFICATIONS

PIPE
2" SCH 80S A312 TP304
2" SCH 40S A312 TP304

FITTINGS
3000# A182 F304
FLOW INDICATOR ASSEMBLY -
STAINLESS STEEL

ASME CC-2 (EQUIVALENT)

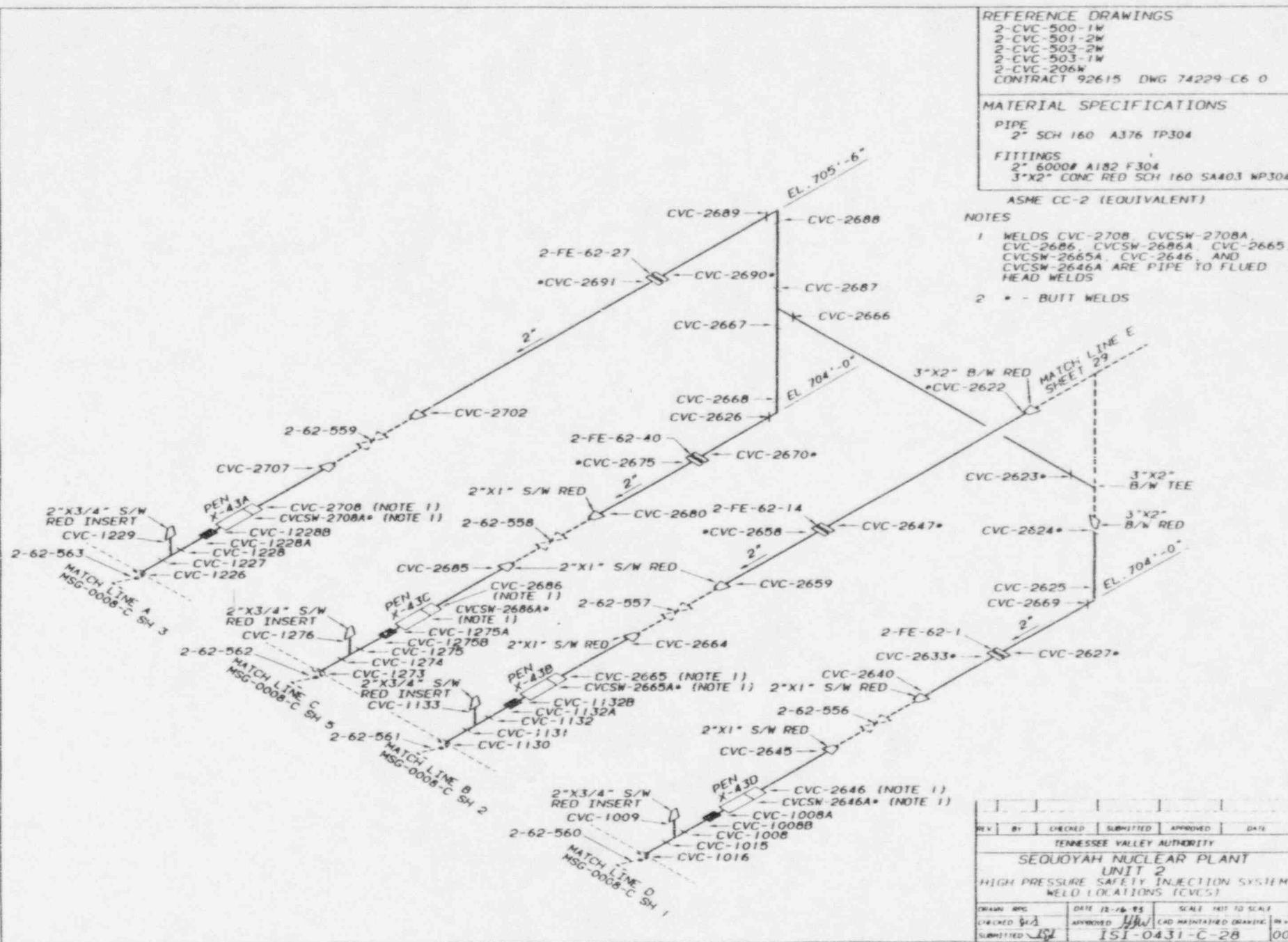
MATCH LINE A
SI-0435-C SH. 6
SI-1003
SI-1004
SI-1005

SI-1006
SI-1007
SI-1008
SI-1009
SI-1010
SI-1011

SI-1012
SI-1013
SI-1014
SI-1017
SI-1018
SI-1019

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (SAFETY INJECTION)					
DESIGNED BY	DATE 12/16/95	SCALE 1/8" = 1'-0"			
CHECKED BY	APPROVED BY	DATE 12/16/95			
SUBMITTED BY	SI-0431-C-27	100			

DETAIL A



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVC)					
DRAWN BY	DATE 12-16-95	SCALE 1:10 TO SCALE			
CHECKED BY	APPROVED	CAD MAINTAINED			
SUBMITTED	ISI-0431-C-28	00			

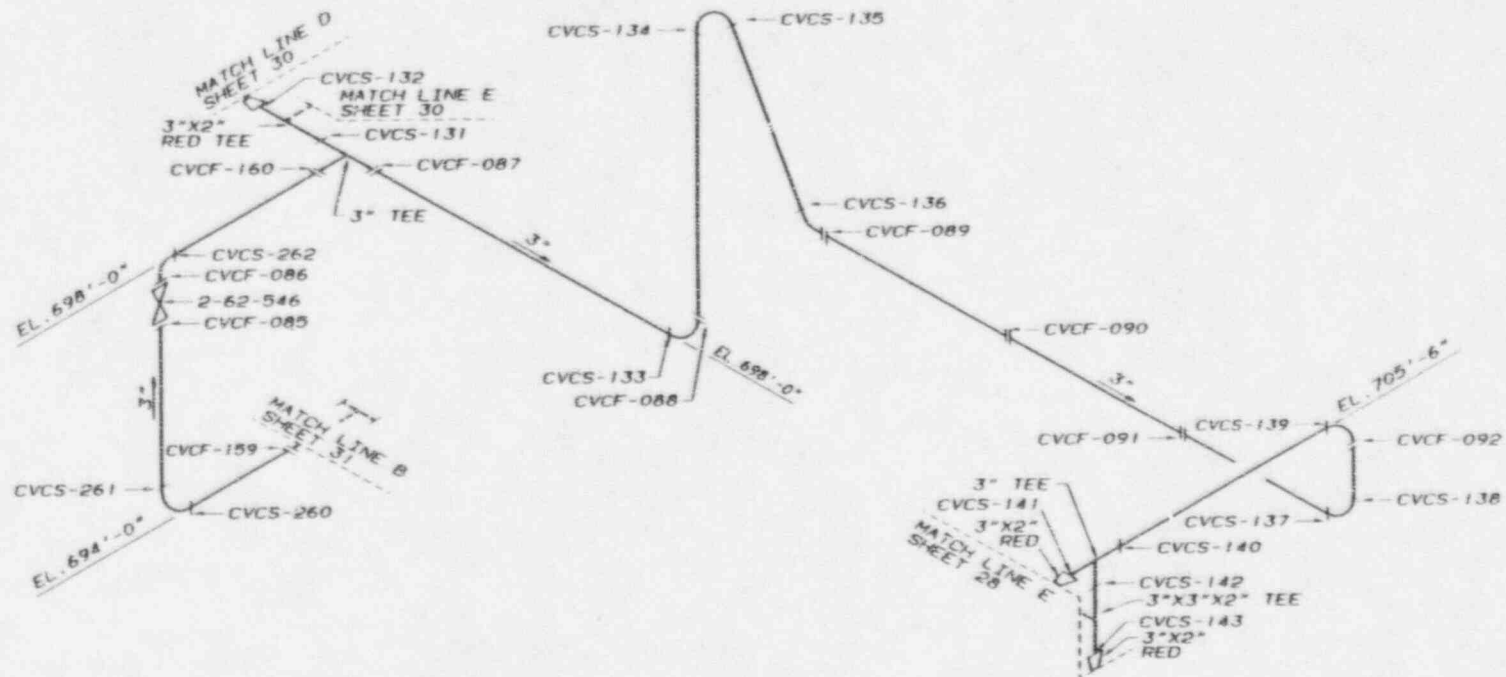
REFERENCE DRAWINGS
A-7445

MATERIAL SPECIFICATIONS

PIPE
3" SCH 160 A376 TP304 SEAMLESS

FITTINGS
3" SCH 160 A403 WP304
3"x2" CON RED SCH 160 SA403 WP304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE 12-26-85	SCALE NOT TO SCALE			
CHECKED BY	APPROVED <i>WV</i>	CAD MAINTAINED ORIGIN			
SUBMITTED <i>5/2</i>	ISI-0431-C-29		00		

REFERENCE DRAWINGS
2-CVC-220W, 2-CVC-221W

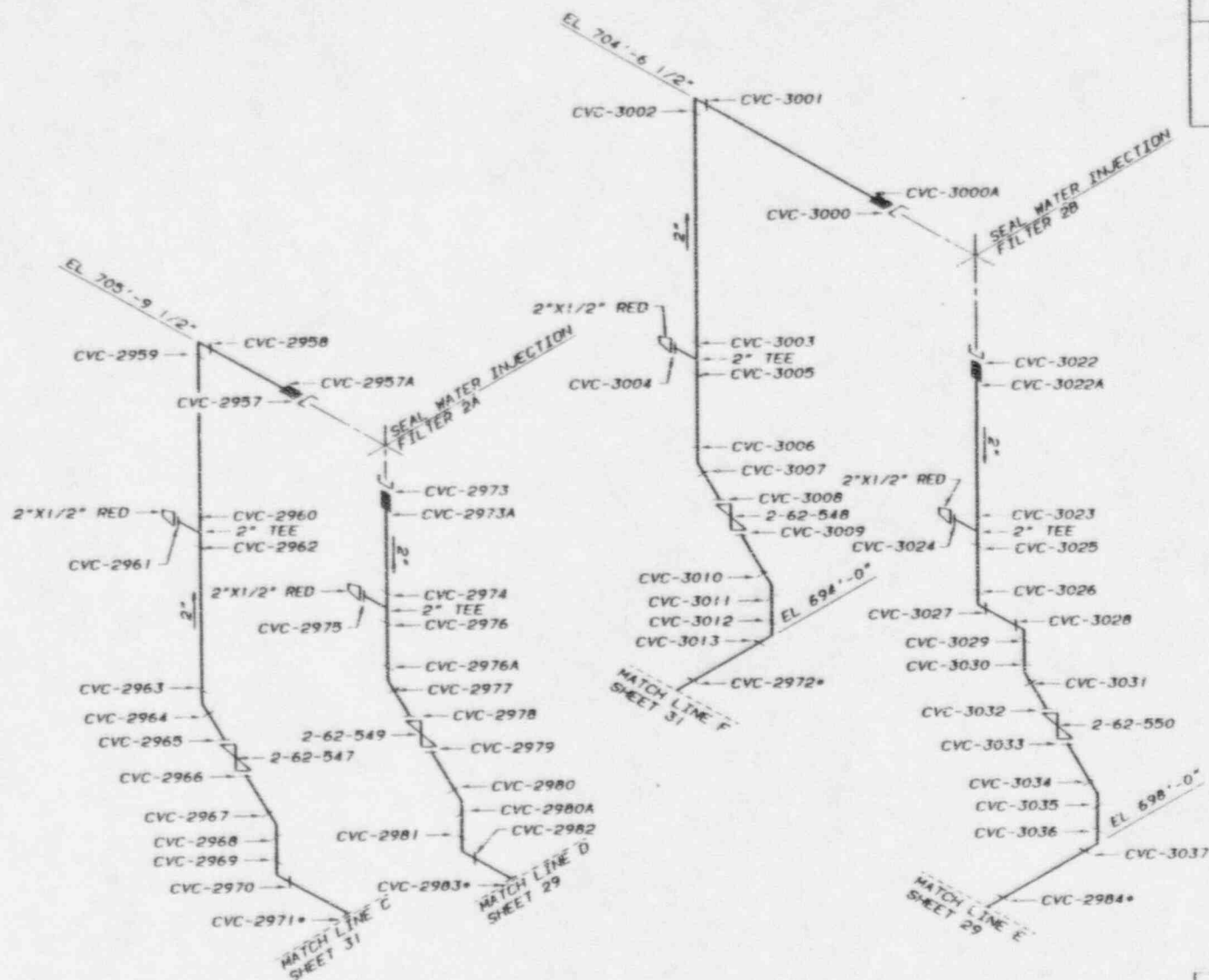
MATERIAL SPECIFICATIONS

PIPE
2" SCH 160 A376 TP304

FITTINGS
2" 6000# AIR2 F304

ASME CC-2 (EQUIVALENT)

NOTE
1 * - BUTT WELD



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCs)					
DRAWN BY	DATE	12-26-95	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	JW	CAD MAINTAINED	DRINKING	BY
SUBMITTED	2/26	ISI-0431-C-30	00		

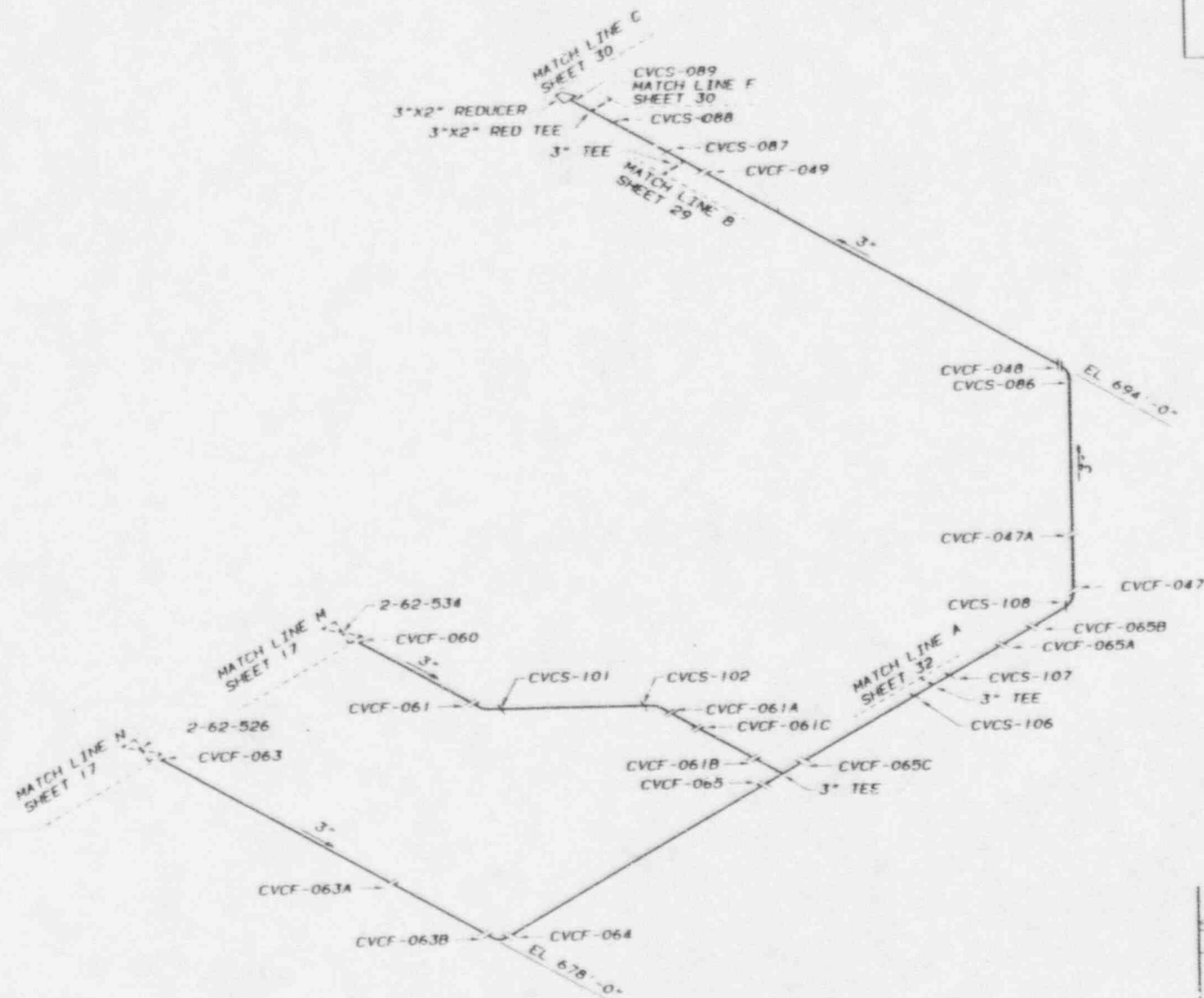
REFERENCE DRAWINGS
A-7440, A-7442

MATERIAL SPECIFICATIONS

PIPE
3" SCH 160 A376 TP304 SEAMLESS

FITTINGS
3" SCH 160 A403 WP304
3"x2" CON RED SCH 160 SA403 WP304

ASME CC-2 (EQUIVALENT)



DESIGNED BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY				
SECOYAH NUCLEAR PLANT				
UNIT 2				
HIGH PRESSURE SAFETY INJECTION SYSTEM				
WELD FOR ATTORNEY (LEVEL 1)				
DESIGNED BY	DATE 12-16-95	SCALE 1/2" = 1'-0"		
CHECKED BY	APPROVED BY	CAD DRAWING		
SUBMITTED BY	ISI-0431-C-31		00	

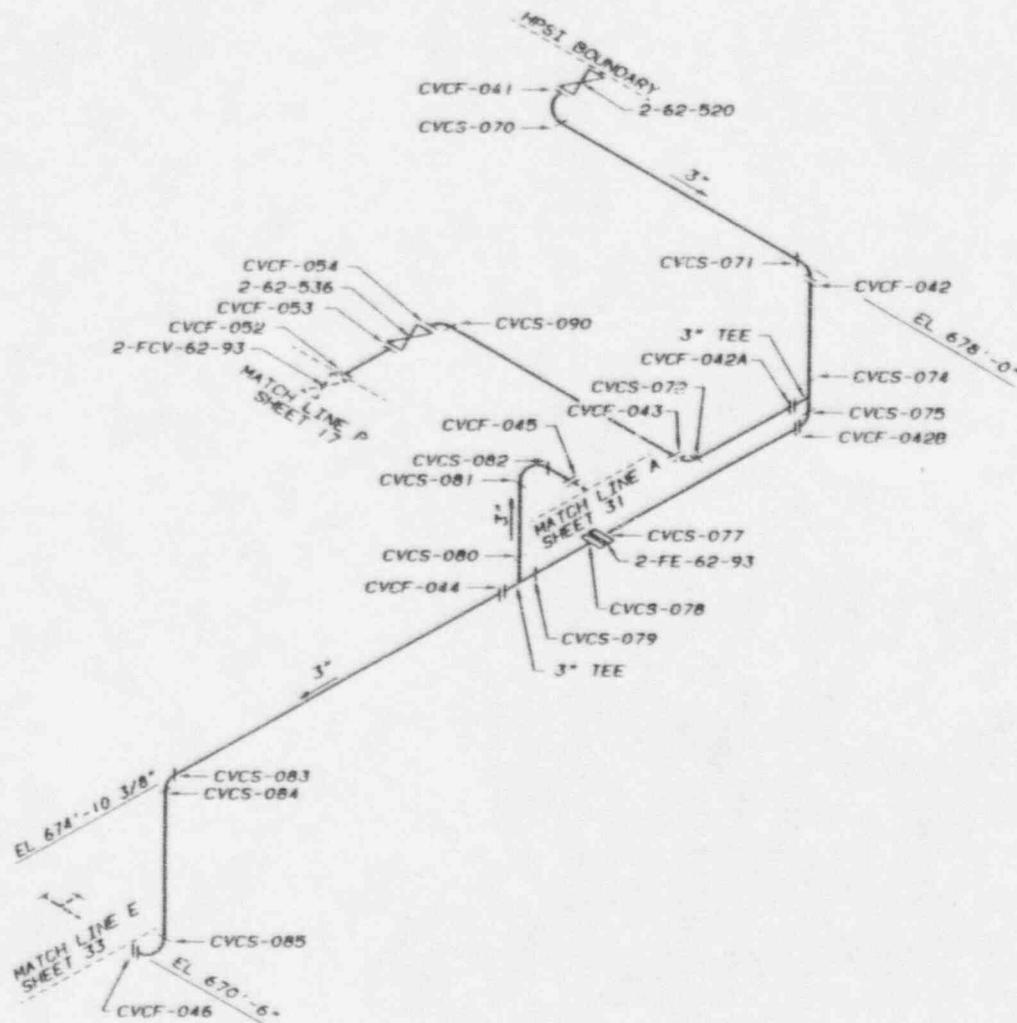
REFERENCE DRAWINGS
A-7440, A-7441

MATERIAL SPECIFICATIONS

PIPE
3" SCH 160 A376 TP304 SEAMLESS

FITTINGS
SCH 160 A403 WP304

ASME CC-2 (EQUIVALENT)



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DRAWN BY	DATE	12-20-85	SCALE	NOT TO SCALE	
CHECKED BY	APPROVED	WV	CAD MAINTAINED DRAWING	REV	
SUBMITTED	WV	ISI-0431-C-32	00		

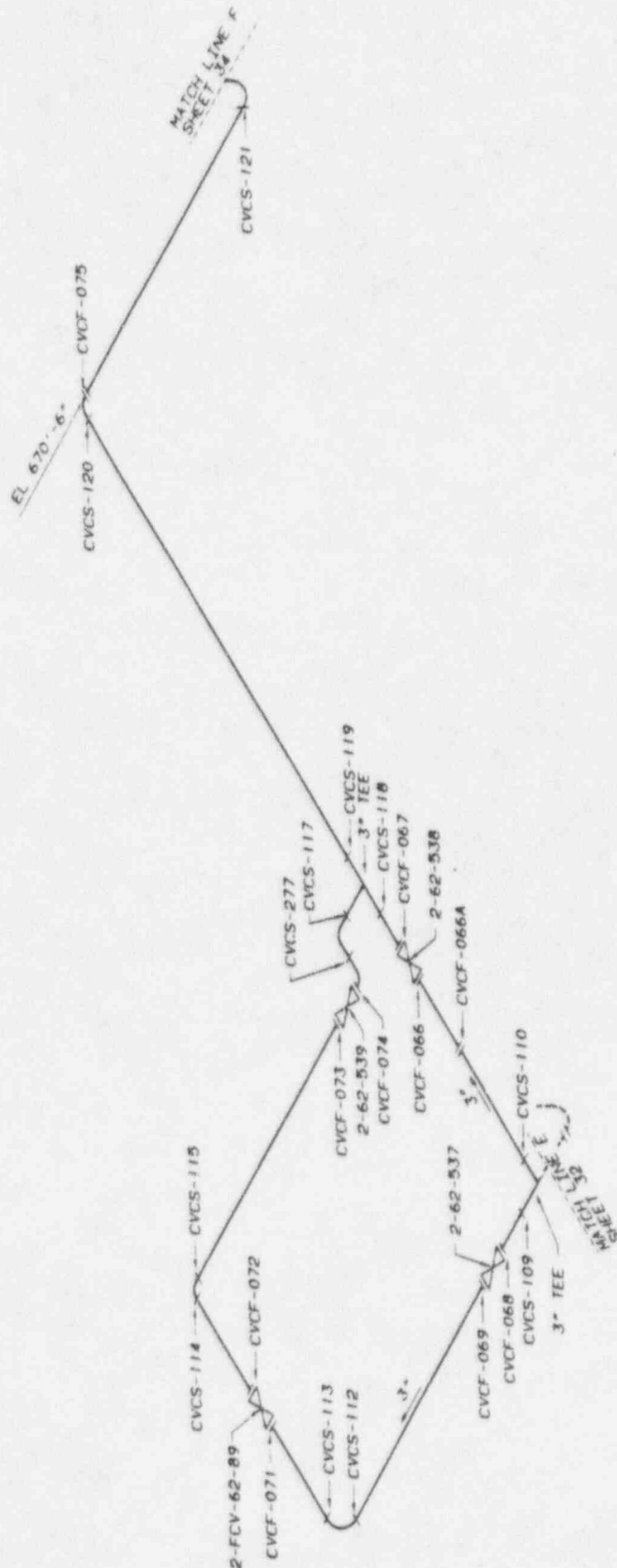
REFERENCE DRAWINGS
A-7443

MATERIAL SPECIFICATIONS

PIPE 3" SCH 160 A376 TP304

FITTINGS 3" SCH 160 A403 WP304

ASME CC-2 (EQUIVALENT)



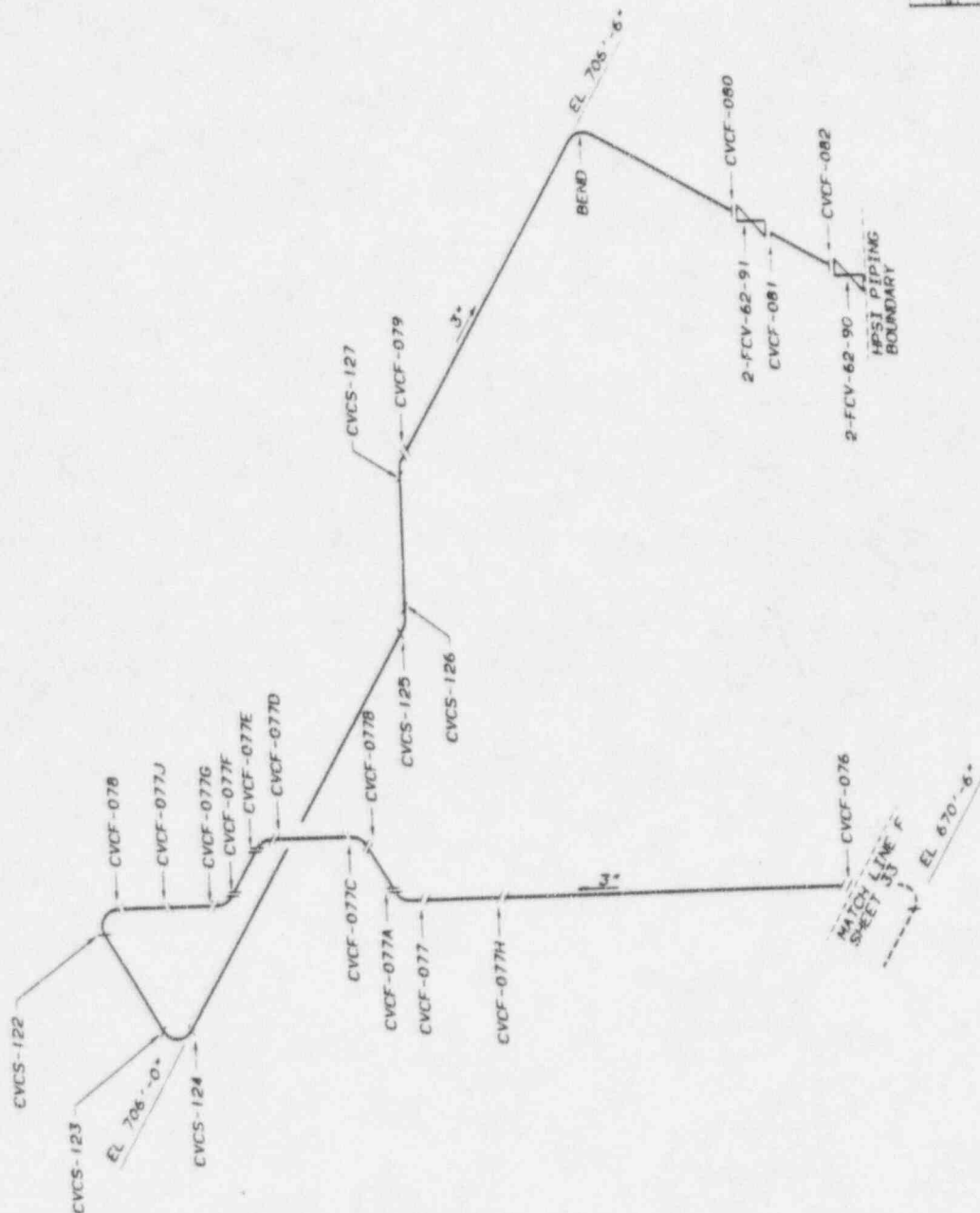
REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
1					
TENNESSEE VALLEY AUTHORITY					
SENOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CVCS)					
DESIGN	CHK	DATE	12-15-85	SCALE	NOT TO SCALE
DRAWN	BY	DATE	12-15-85	APP'D	100% INSPECTED
CHECKED	BY	DATE	12-15-85	APP'D	100% INSPECTED
SUBMITTED	BY	DATE	12-15-85	APP'D	100% INSPECTED
ISI-0431-C-33					
00					

A-7444

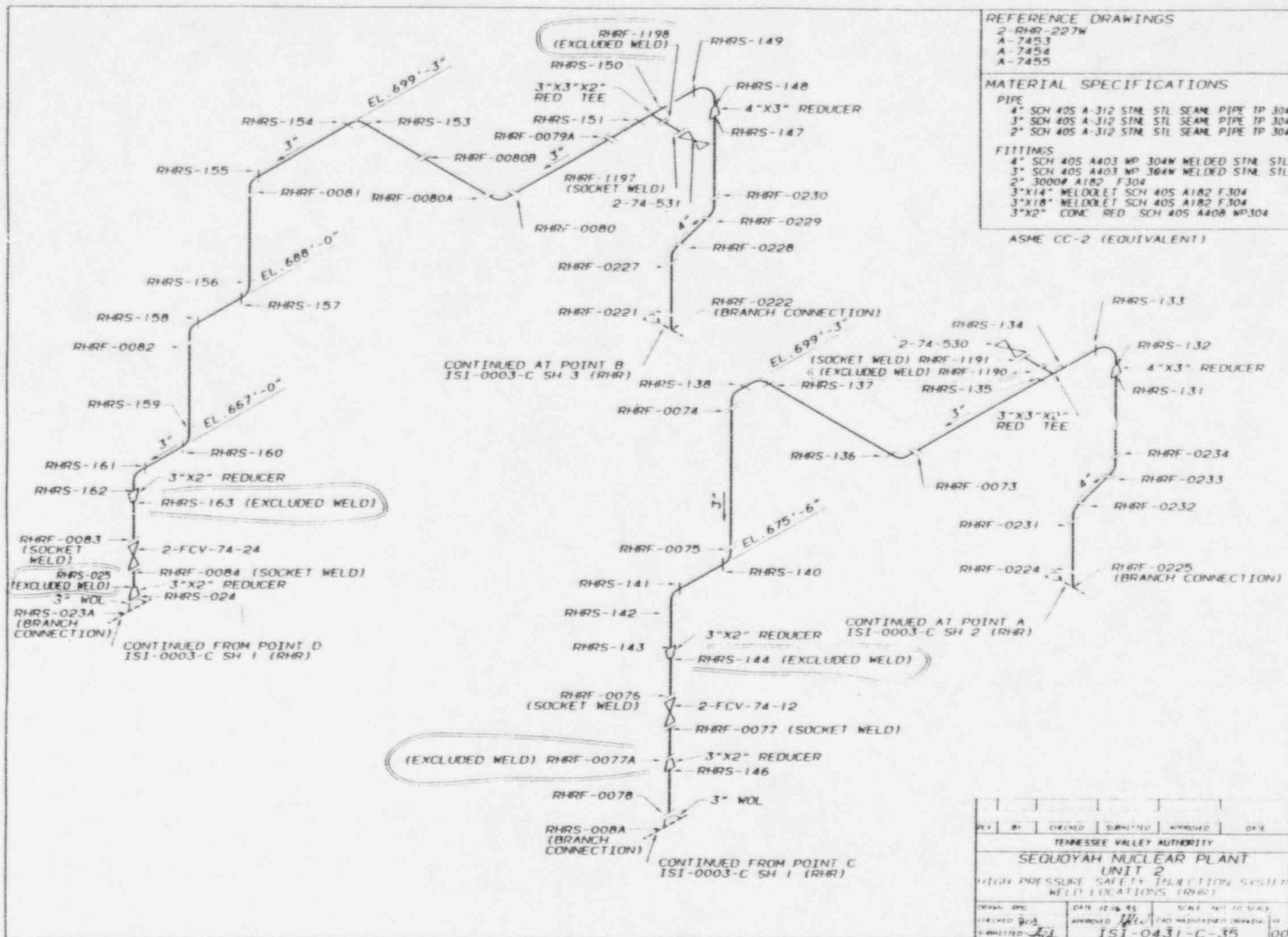
01DF

CITY INDEX

NAME CC-2 (EQUIVALENT)

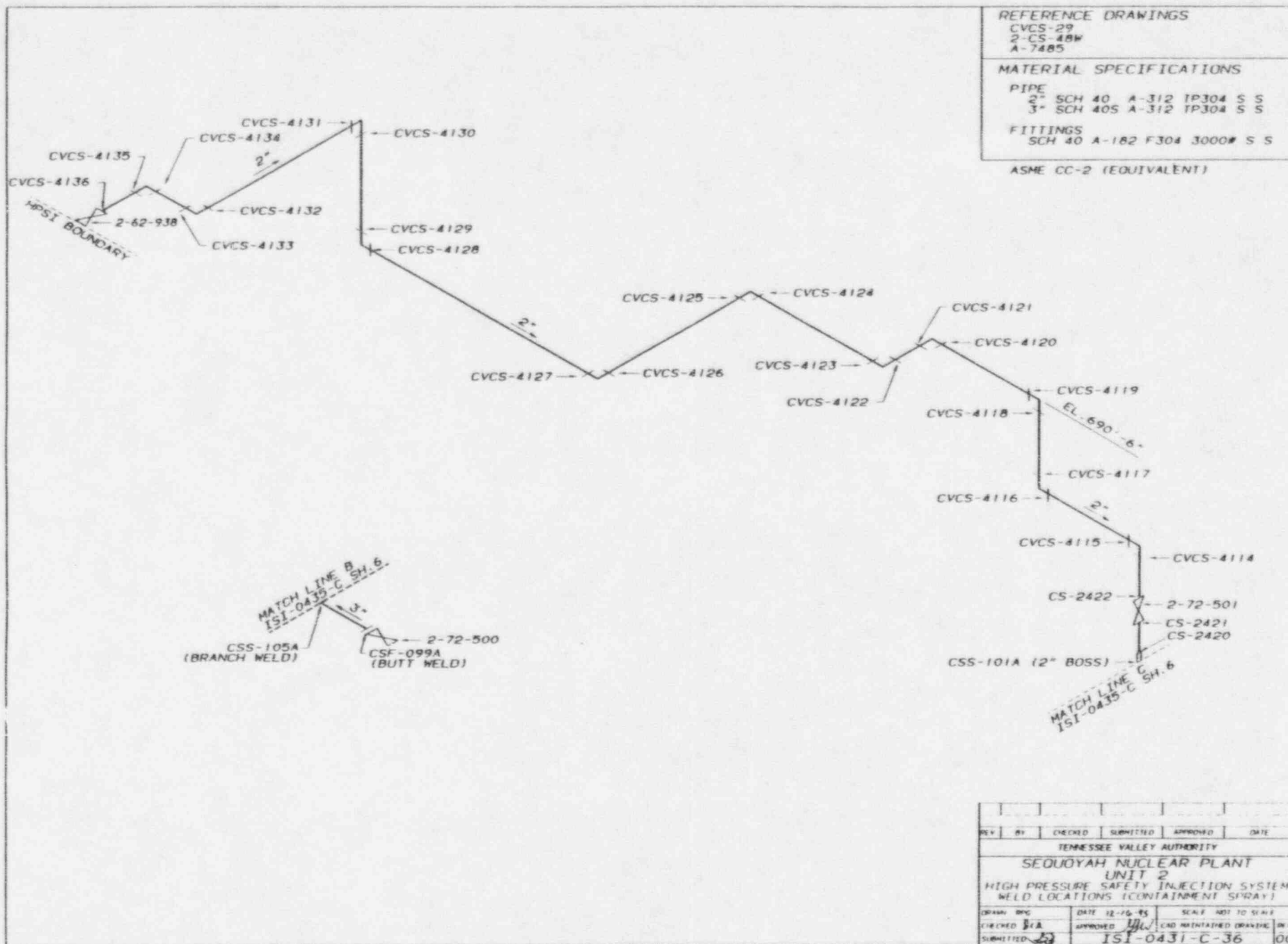


DATE	TIME USED	SUBMITTED	APPROVED	DATE
			PLAINSSEE VALLEY AUTHORITY	
SEDOYAH NUCLEAR PLANT				
UNIT PROTECTION SYSTEM				
HIGH PRESSURE SAFETY INJECTION SYSTEM WELD LOCATIONS (CWS)				
DRAWN BY	DATE	SCALE	NOT TO SCALE	
REVIEWED BY	12-06-93	ASSEMBLED BY	CND INSTRUMENT DRAWING	00
REVISED BY			ISI-0431-C-3d	

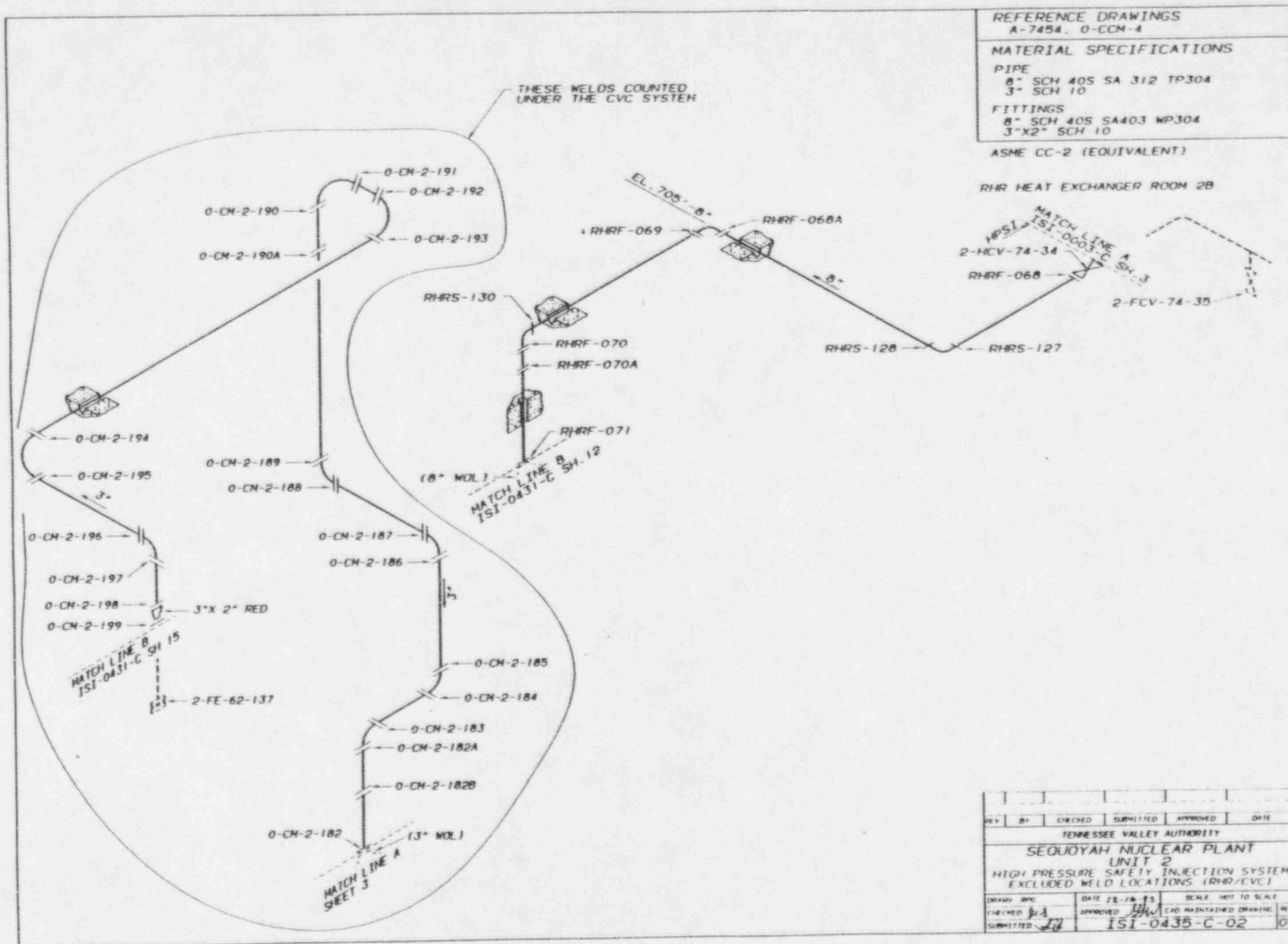


REFERENCE DRAWINGS	
2-RHR-227W	
A-7453	
A-7454	
A-7455	
MATERIAL SPECIFICATIONS	
PIPE	
4" SCH 40S A-312 STL	STL SEAM PIPE TP 304
3" SCH 40S A-312 STL	STL SEAM PIPE TP 304
2" SCH 40S A-312 STL	STL SEAM PIPE TP 304
FITTINGS	
4" SCH 40S A403 WP 304W	WELDED STL STL
3" SCH 40S A403 WP 304W	WELDED STL STL
2" 3000# A182	F304
3"x14" WELDLET	SCH 40S A182 F304
3"x18" WELDLET	SCH 40S A182 F304
3"x2" CONC. RED	SCH 40S A408 WP304
ASME CC-2 (EQUIVALENT)	

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (RHR)					
DESIGN: DPC	DATE: 12-06-95	SCALE: 1"=10'-0"			
CHECKED: JED	APPROVED: WEL	CAD MAINTAINED (MARKING: 10)			
SUBMITTED: JED	ISI-0431-C-35 00				



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
WELD LOCATIONS (CONTAINMENT SURFACE)					
DESIGN BY	DATE 12-16-85	SCALE NOT TO SCALE			
CHECKED SEA	APPROVED [Signature]	CAD MAINTAINED (DRAWING)			
SUBMITTED [Signature]	ISI-0431-C-36	00			



REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEOUYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (RHR/CVC)					
DRAWN BY	DATE 12-26-85	SCALE	NOT TO SCALE		
CHECKED BY	APPROVED	CAD MAINTAINED DRAWING	REV		
SUBMITTED	ISI-0435-C-02	00			

REFERENCE DRAWINGS
A-7438

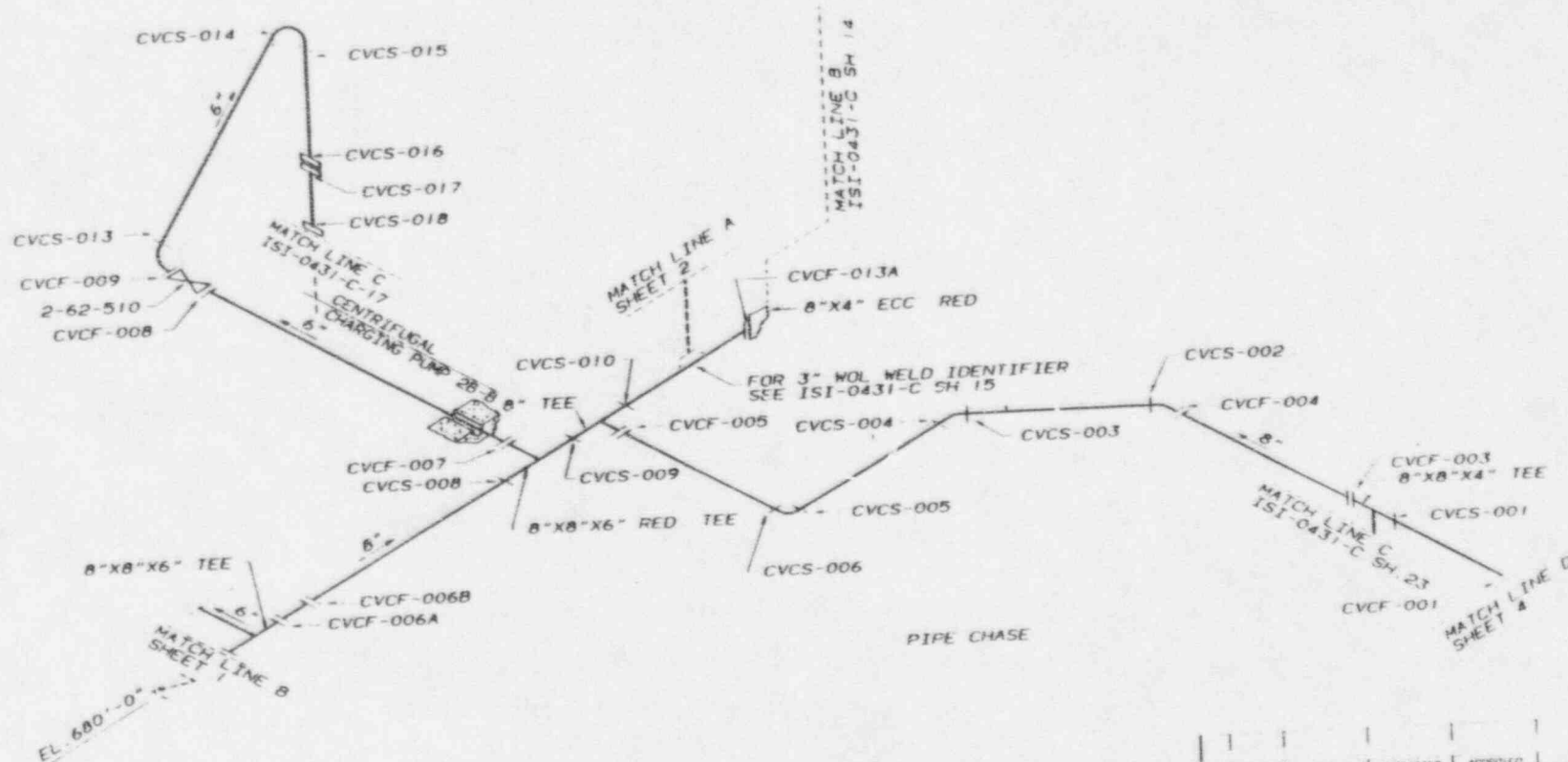
MATERIAL SPECIFICATIONS

PIPING
8" SCH 40S SA312 TP304 WELDED
6" SCH 40S SA312 TP304 WELDED

FITTINGS
8"x6" SCH 40S SA403 WP304 WELDED
8"x4" ECC RED SCH 40S
A-403 WP304W

FLANGE
SA 182 F304

ASME CC-2 (EQUIVALENT)



PIPE CHASE

REV	BY	CHKD	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (REVISED)					
DESIGN	SPC	DATE	12 16 95	SCALE	1:1 TO S. 402
CHECKED	JCS	APPROVED	JW	CRD MAINTAINED (REVISION)	00
SUBMITTED	JCS	ISI-0435-C-03			

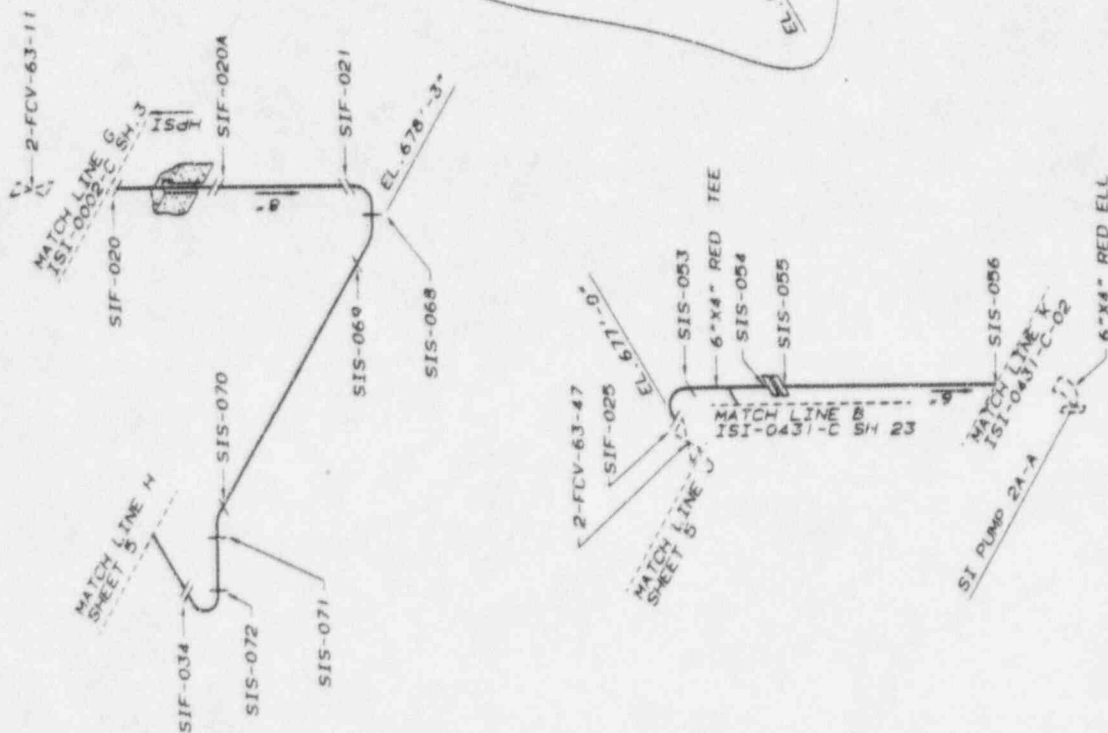
REFERENCE DRAWINGS

A-7491
A-7492
A-7495

MATERIAL SPECIFICATIONS

PIPE 6" 6" SCH 40S
SA 312 TP 304 WELDED
FITTINGS 6" 6" SCH 40S
SA 403 WP 304W WELDED
FLANGE SA182 F 304

ASME CC-2 (EQUIVALENT)



BY CHECKED SUBMITTED APPROVED DATE

TENNESSEE VALLEY AUTHORITY

SEQUOYAH NUCLEAR PLANT

UNIT 2

HIGH PRESSURE SAFETY INJECTION SYSTEM

EXCLUDED WELD LOCATIONS (SI-CVC)

DATE 11-16-75 SCALE NOT TO SCALE

APPROVED *[Signature]* CAD MAINTAINED ORIGINATOR

ISSUED *[Signature]* ISI-0435-C-04 100

REFERENCE DRAWINGS
A7492

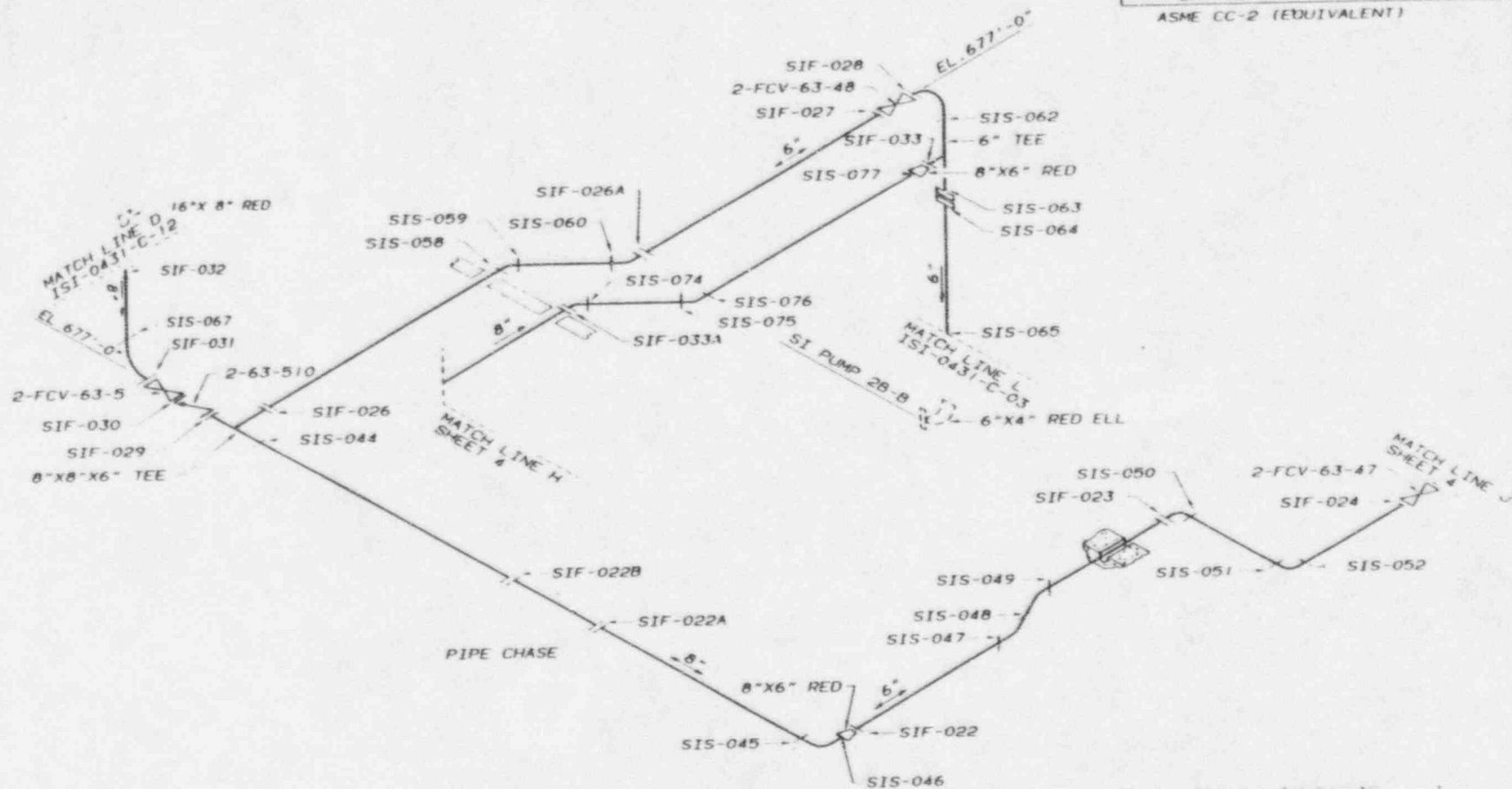
MATERIAL SPECIFICATIONS

PIPE
8" & 6" SCH 40S
SA 312 TP304W WELDED

FITTINGS
8" & 6" SCH 40S
SA 403 WP304W WELDED

FLANGE
SA 182 F304

ASME CC-2 (EQUIVALENT)

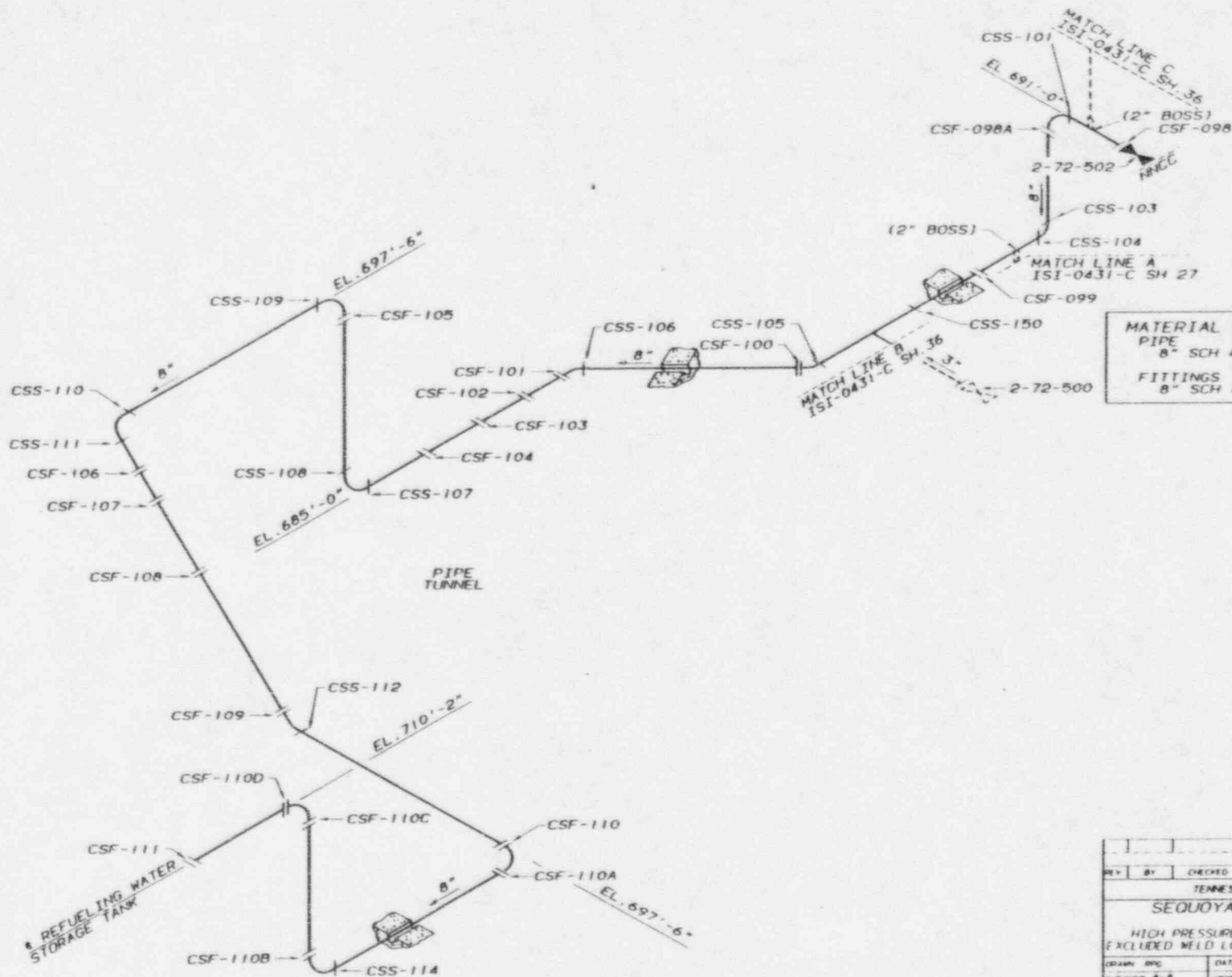


DES	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (SAFETY PROJECT)					
DESIGN	DATE	SCALE	NOT TO SCALE		
CHECKED	DATE	APPROVED	CAD MANIPULATED DRAWING		
SUBMITTED	DATE	ISI-0435-C-05			
					00

REFERENCE DRAWINGS

A-7405, 2-CS-48W

ASME CC-2 (EQUIVALENT)



MATERIAL SPECIFICATIONS

PIPE
8" SCH 40S A-312 TP304W WELDED

FITTINGS
8" SCH 40S A-403 WP304W WELDED

REV	BY	CHECKED	SUBMITTED	APPROVED	DATE
TENNESSEE VALLEY AUTHORITY					
SEQUOYAH NUCLEAR PLANT					
UNIT 2					
HIGH PRESSURE SAFETY INJECTION SYSTEM					
EXCLUDED WELD LOCATIONS (CONTAINMENT SPRAY)					
DESIGN: BPC	DATE: 12-16-93	SCALE: NOT TO SCALE			
CHECKED: BJA	APPROVED: [Signature]	CAD MAINTAINED DRAWING: [Signature]			
SUBMITTED: [Signature]	ISI-0435-C-06		00		

ATTACHMENT 2.i

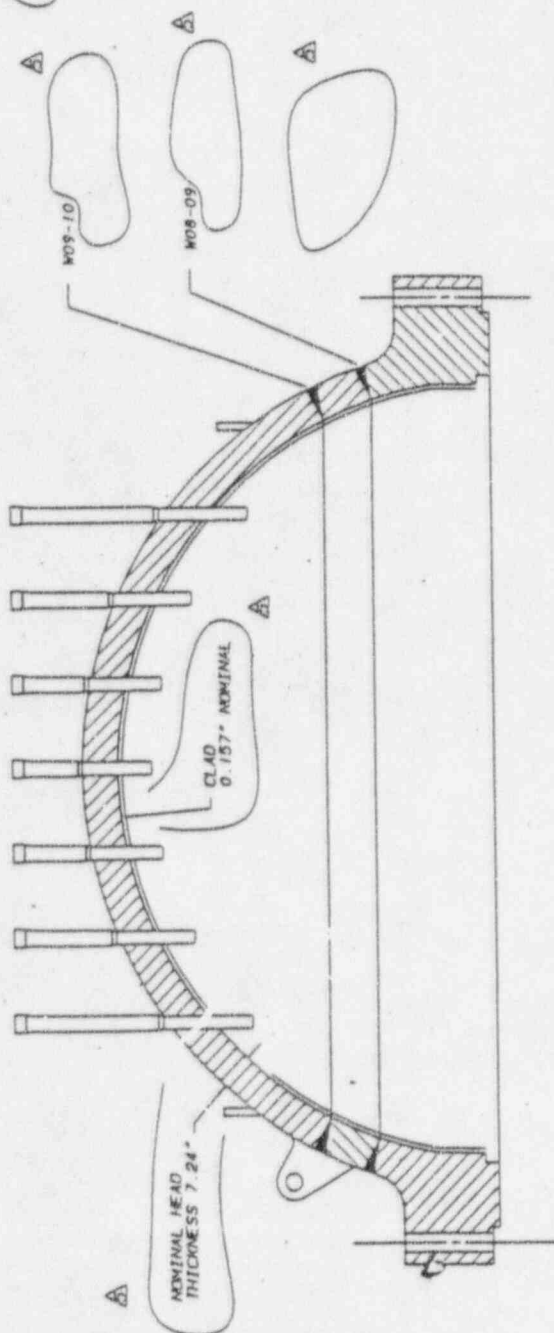
REFERENCE DRAWINGS

CONTRACT 68C60-91934 (N2M-2-3)
RV NUCLEAR 30816-1061 (FIG. 7.4)

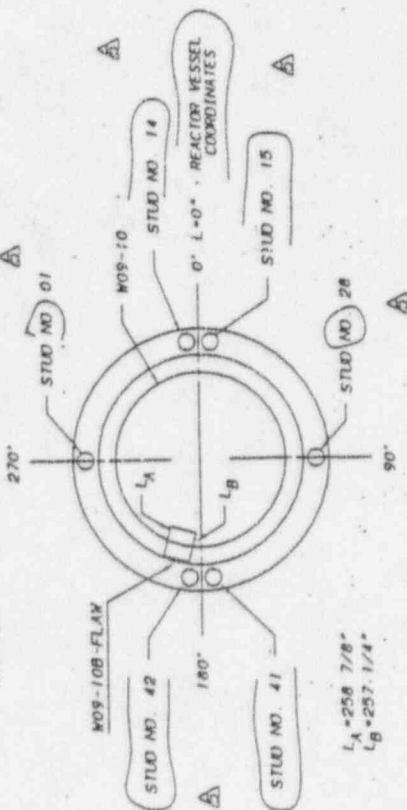
ASME CC-1 (EQUIVALENT)

NOTES:

1. FOR UNIT 2 DWG SEE TST-0301-C
3. SEE 1-SI-SVI-000-114.0 AND SWRI PSI REPORT FOR HISTORICAL INFORMATION ON FLAW INDICATION.
4. WELD LENGTH AND FLAW DIMENSION MEASURED CLOCK-WISE FROM VESSEL 0° ON OUTSIDE SURFACE AT 4 OF WELD.



LOCATION OF FLAW INDICATION IN WELD W09-10



1	REV	1	DATE	12-7-81	BY	WJ	CHK	12-7-81
2	REV	2	DATE	12-7-81	BY	WJ	CHK	12-7-81
3	REV	3	DATE	12-7-81	BY	WJ	CHK	12-7-81
4	REV	4	DATE	12-7-81	BY	WJ	CHK	12-7-81
5	REV	5	DATE	12-7-81	BY	WJ	CHK	12-7-81
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11	REV	11	DATE	12-7-81	BY	WJ	CHK	12-7-81
12	REV	12	DATE	12-7-81	BY	WJ	CHK	12-7-81
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14	REV	14	DATE	12-7-81	BY	WJ	CHK	12-7-81
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97	REV	97	DATE	12-7-81	BY	WJ	CHK	12-7-81
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99	REV	99	DATE	12-7-81	BY	WJ	CHK	12-7-81
100	REV	100	DATE	12-7-81	BY	WJ	CHK	12-7-81

SEJOYAH NUCLEAR PLANT

UNIT 1

REACTOR VESSEL CLOSURE HEAD

DATE	4-11-82	SCALE	NOT TO SCALE
DRAWN BY	WJ	APPROVED BY	WJ
CHECKED BY	WJ	CAD	MINI-MAX DRAWING
SUBMITTED	CHN-2358-C-01		105

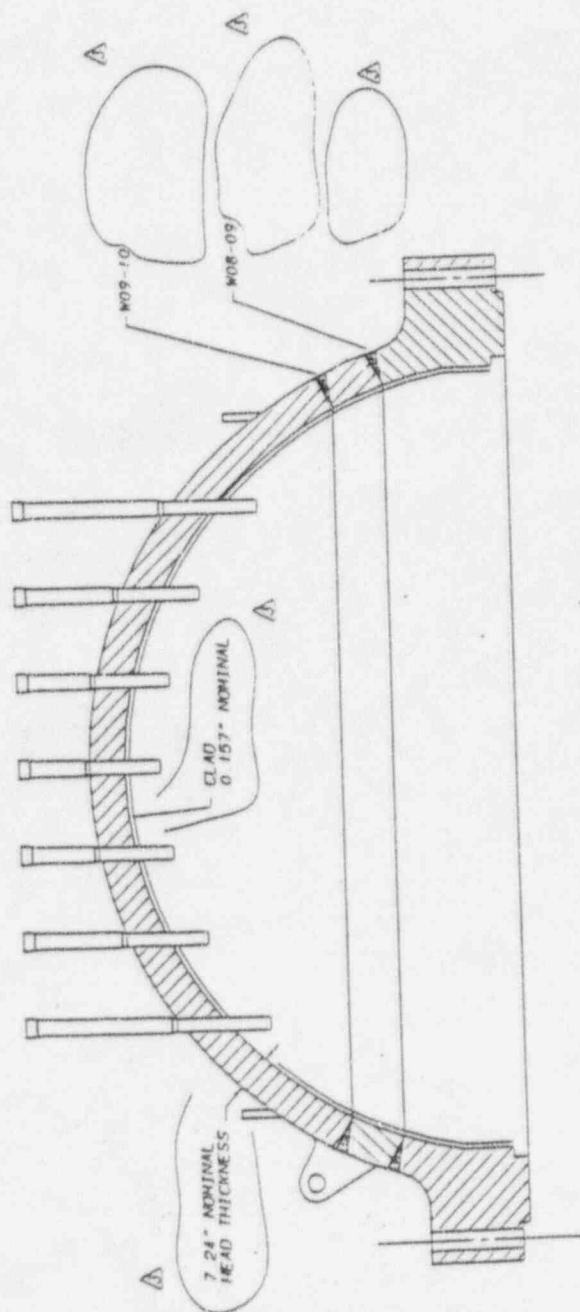
THE CLOSURE HEAD RING IS FABRICATED OF
CLASS 2 MANGANESE-NICKEL-IRON
STEEL. THE CLOSURE HEAD HEAT-TREATMENT
SECTION IS FABRICATED OF A-533, GR. B.
CLASS 1 MANGANESE-NICKEL-IRON STEEL.
BOTH SECTIONS ARE CLAD WITH WELD
DEPOSITED AUSTENITIC STAINLESS STEEL.

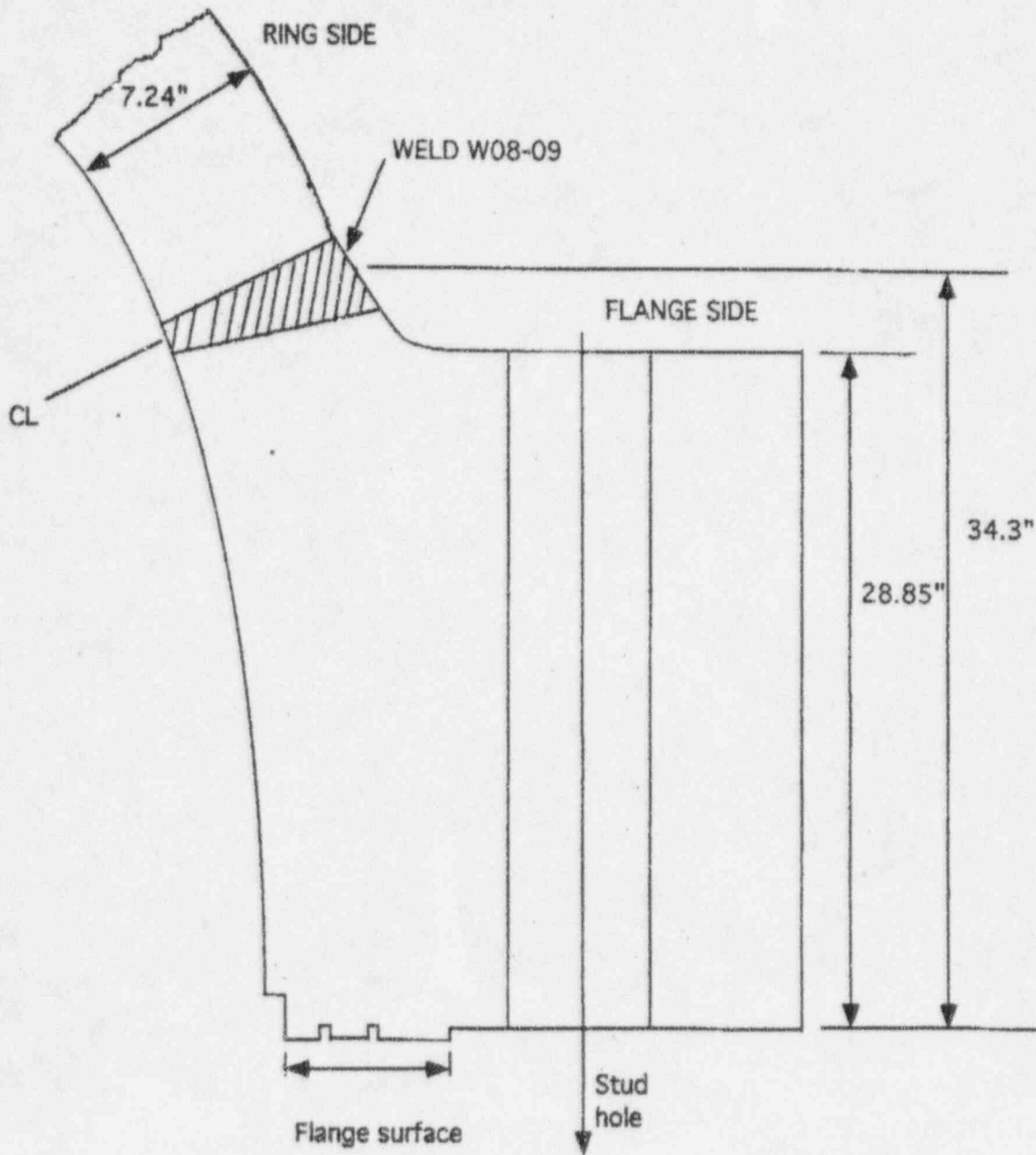
THE CLOSURE HEAD FLANGE SECTION IS FABRICATED OF A-508, CLASS 2, HINGARESE-ACELYBROMIN STEEL AND IS CLAD INTERNALLY AND ON THE GASKET FACE WITH WELD DEPOSITED AUSTENITIC STAINLESS STEEL

ASME CC-1 (EQUIVALENT)

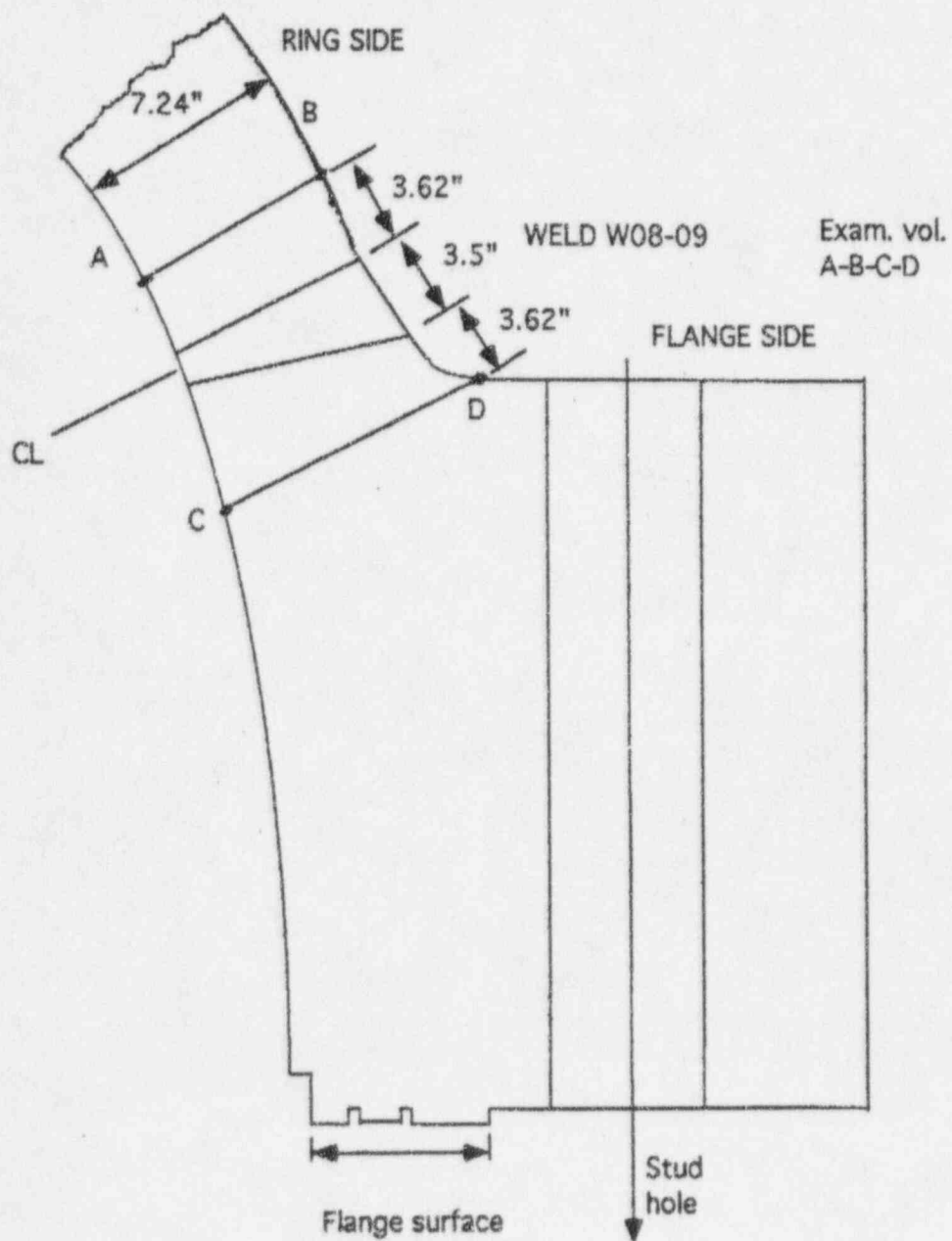
NOTES

1. FOR UNIT + DWG SEE C194-2358-C)

[illegible]

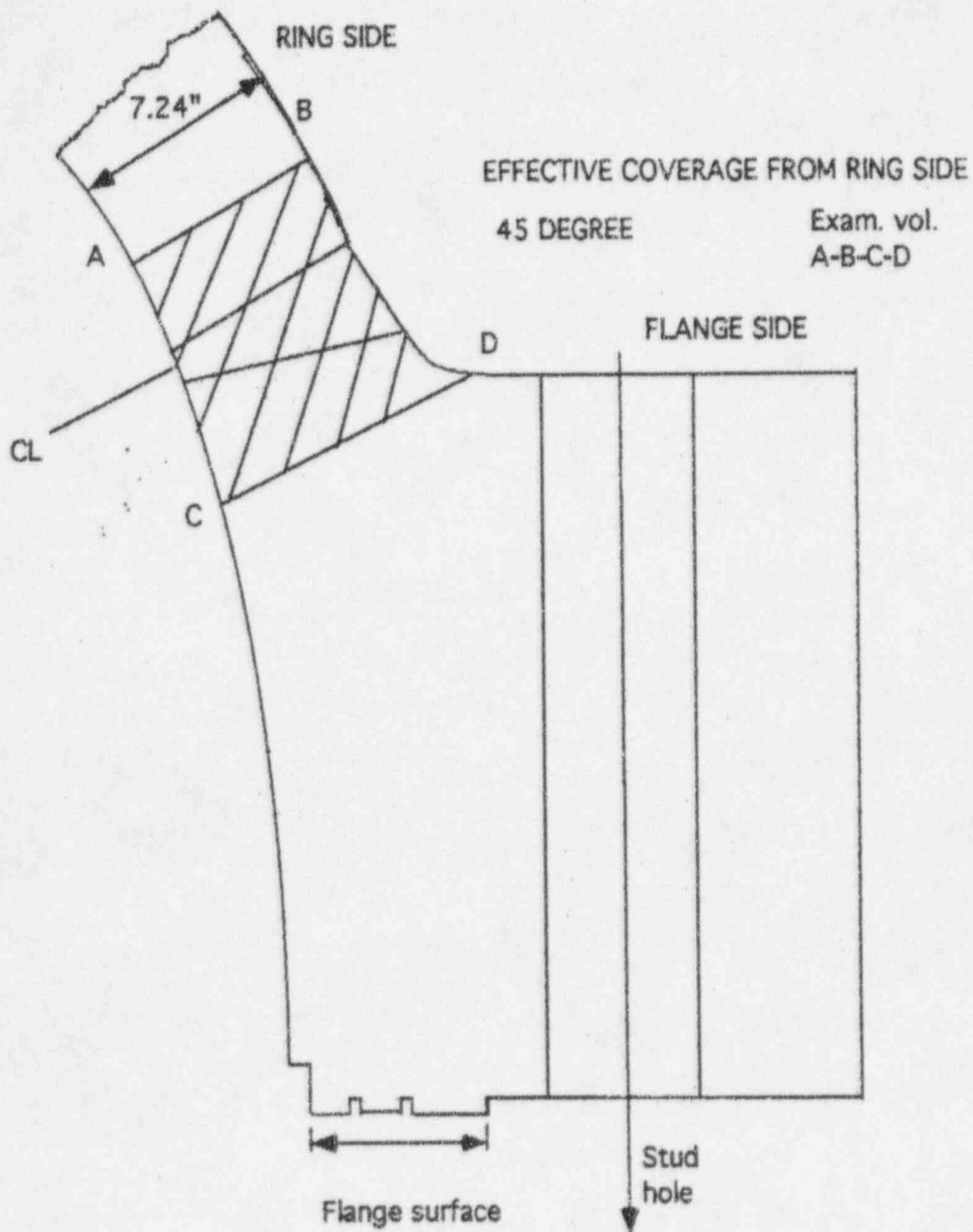


SKETCH 1
HEAD-TO-FLANGE WELD JOINT
COMPONENT DIMENSIONS



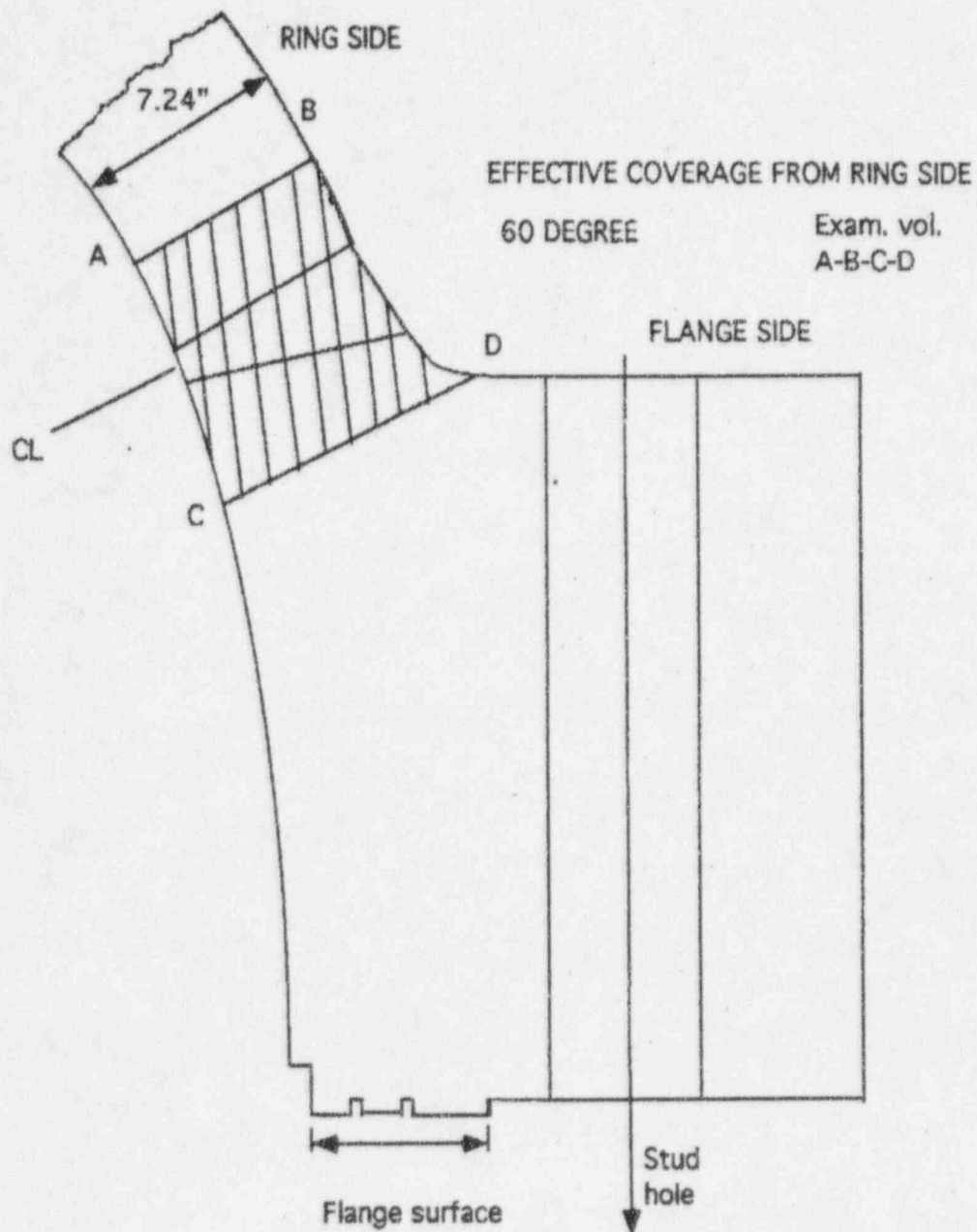
SKETCH 2

HEAD-TO-FLANGE WELD JOINT (W08-09)
ASME SECTION XI REQUIRED COVERAGE



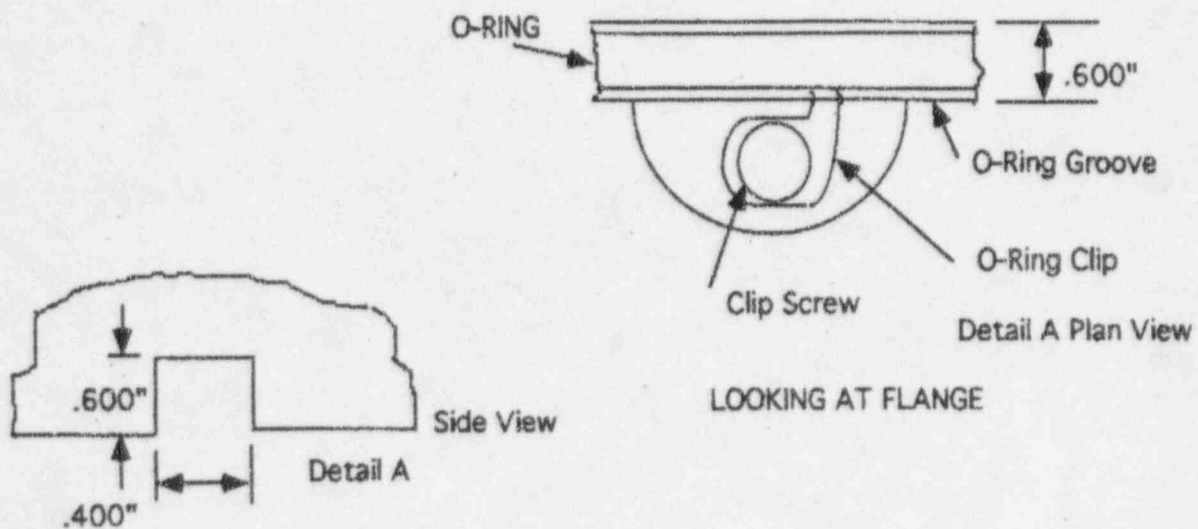
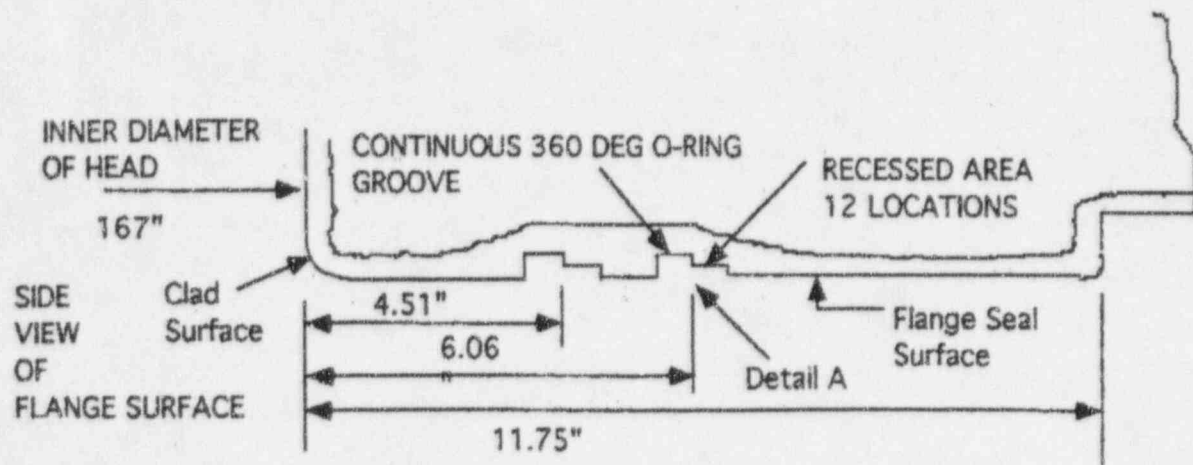
SKETCH 3

HEAD-TO-FLANGE WELD JOINT (W08-09)
EFFECTIVE COVERAGE FROM THE RING SURFACE (45 DEGREE)



SKETCH 4

HEAD-TO-FLANGE WELD JOINT (W08-09)
EFFECTIVE COVERAGE FROM THE RING SURFACE (60 DEGREE)



SKETCH 5

HEAD FLANGE
SEALING SURFACE DETAILS

ATTACHMENT 2.j

Request for Relief 1-ISI-3

<u>Components:</u>	Auxiliary Feedwater Piping NPS 1 and Smaller	
<u>Class:</u>	ASME Code Class 3 (Equivalent)	
<u>Section XI Edition:</u>	1989 Edition	
<u>Code Paragraph:</u>	IWD-1220.1	
<u>Code Requirement:</u>	Integral attachments of supports and restraints to components that are Nominal Pipe Size (NPS) 4 and smaller within the system boundaries of Examination Categories D-A, D-B and D-C of Table IWD-2500-1 shall be exempt from the visual examination VT-3, except for PWR Auxiliary Feedwater System.	
<u>Impractical Requirement:</u>	PWR Auxiliary Feedwater does not have a NPS 1 and smaller exemption.	
<u>Basis for Relief:</u>	ASME Section XI Codes 1991 Addenda and later incorporated the NPS 1 and smaller exemption requirements for Auxiliary Feedwater System. The exemption includes piping NPS 1 and smaller and exemptions for vessels, pumps, and valves and their connections in piping NPS 1 and smaller.	
<u>Examinations Performed:</u>	SQN will perform examinations as required by the ASME Section XI Code on the non-exempted components greater than NPS 1 in the ASME Code Class 3 PWR Auxiliary Feedwater System.	

Request for Relief 1-ISI-3 (continued)

Justification:

The Auxiliary Feedwater exemptions of NPS 1 and smaller have been incorporated in later editions of the ASME Section XI Code.

Conclusion:

Based on the above justification, it is concluded that the code requirement of no exemption for the NPS 1 and smaller on the Auxiliary Feedwater System is impractical. SQN's examinations on the ASME Code Class 3 Auxiliary Feedwater System components greater than NPS 1 as required by the ASME Section XI Code will provide an acceptable level of quality and safety. Therefore, pursuant to 10CFR50.55a(g)(6)(i), it is recommended that relief be granted.

Request for Relief 2-ISI-3

<u>Components:</u>	Auxiliary Feedwater Piping NPS 1 and Smaller
<u>Class:</u>	ASME Code Class 3 (Equivalent)
<u>Section XI Edition:</u>	1989 Edition
<u>Code Paragraph:</u>	IWD-1220.1
<u>Code Requirement:</u>	Integral attachments of supports and restraints to components that are Nominal Pipe Size (NPS) 4 and smaller within the system boundaries of Examination Categories D-A, D-B and D-C of Table IWD-2500-1 shall be exempt from the visual examination VT-3, except for PWR Auxiliary Feedwater System.
<u>Impractical Requirement:</u>	PWR Auxiliary Feedwater does not have a NPS 1 and smaller exemption.
<u>Basis for Relief:</u>	ASME Section XI Code 1991 Addenda and later incorporated the NPS 1 and smaller exemption requirements for Auxiliary Feedwater System. The exemption includes piping NPS 1 and smaller and exemptions for vessels, pumps, and valves and their connections in piping NPS 1 and smaller.
<u>Examinations Performed:</u>	SQN will perform examinations as required by the ASME Section XI Code on the non-exempted components greater than NPS 1 in the ASME Code Class 3 PWR Auxiliary Feedwater System.

Request for Relief 2-ISI-3 (continued)

Justification:

The Auxiliary Feedwater exemptions of NPS 1 and smaller have been incorporated in later editions of the ASME Section XI Code.

Conclusion:

Based on the above justification, it is concluded that the code requirement of no exemption for the NPS 1 and smaller on the Auxiliary Feedwater System is impractical. SQN's examinations on the ASME Code Class 3 Auxiliary Feedwater System components greater than NPS 1 as required by the ASME Section XI Code will provide an acceptable level of quality and safety. Therefore, pursuant to 10CFR50.55a(g)(6)(i), it is recommended that relief be granted.

ATTACHMENT 2.k

REQUEST FOR RELIEF ISPT - 05

Subject: Pressure testing of Class 1 components.

Components: ASME Code Class 1 vents, drains, test and fill piping which range in diameter from 3/4 inch to 2 inches.

Code Requirement: ASME Section XI, Subsection IWB-2500, Table IWB-2500-1, Category B-P, Footnote 2 states that "The pressure retaining boundary during the system hydrostatic test shall include all Class 1 components within the system boundary."

Basis for Relief:

Various piping segments are located in open-end tailpipes that serve as vent, drain, test, or fill lines. Manual valves and flanges bound these piping segments to provide the design-required double isolation at the reactor coolant pressure boundary. These piping segments are not normally pressurized. Pressure testing of these piping segments at nominal operating pressure in Mode 3 would require that the inboard isolation valve be opened when the reactor coolant system (RCS) is at full temperature and pressure (547 F and 2245 psig). The action would violate the design requirement for double isolation valve protection. The potential for spills when opening the system presents a significant risk of personnel contamination. Pressure testing in Mode 6 would require that a hydrostatic pump be connected at each segment location. However, for some segments there is no connection available and would require a modification for installation of a pump connection. These piping segments are located in high-radiation areas and testing would result in high personnel radiation exposure. A breakdown of the dose estimates for each radiation area in the plant is provided below:

1. RCS Loop Drains
6 items at 10 person-hours per item at 300 mR/hour
2. Reactor Vessel Head Vents
2 items at 10 person-hours per item at 150 mR/hour and
2 items at 8 person-hours per item at 20 mR/hour.
3. Pressurizer Spray Vents
2 items at 10 person-hours per item at 200 mR/hour.
4. Excess Letdown Drain
1 item at 8 person-hour per item at 50 mR/hour.
5. RCS Seal Drains and Vents
4 items at 8 person-hours per item at 20 mR/hour and
4 items at 8 person-hour per item at 50 mR/hour

where mR stands for millirem. This results in a total of 27.960 Rem of dose accumulated for performing these tests. This data is based on estimated durations and actual survey data from SQN's cycle 5 outages. These radiation exposure estimates are based on a pressure test in Mode 6 when each of the blind flanges would have to be removed, a test flange installed, and a hydrostatic pump connected. Personnel

would remain in the area to perform the test, disconnect the test equipment, and reinstall the blind flange.

These piping segments are visually inspected each refueling outage as the unit returns to operation. These segments are not specifically pressurized past the first isolation valve for this inspection. It is possible that the piping is pressurized because of leakage at the first isolation valve. With these inspection being performed approximately six times in each inspection interval, the increase in safety achieved from the required nominal operating pressure test is not commensurate with the hardship of performing such testing.

Alternate
Testing:

These piping segments will continue to be visually inspected following each refueling outage for leakage and evidence of past leakage during the RCS leakage test. This test is conducted with the RCS at full operating temperature and pressure.

Note: This request for relief is similar to relief which was approved for the first interval.

Rio Algom
Rio Tinto

13th January 1976

Mr. Herman J. Paas, Jr.
U.S. Atomic Energy Commission
Directorate of Regulatory Operations
Region IV
10395 West Colfax
Room 200
Denver, Colorado 80215

Dear Mr. Paas,

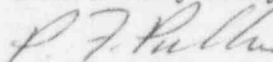
Note 4 of Appendix B to 10 CFR 20 was amended by notice of 31st October 1975 to be effective on 29th January 1976.

It is our understanding of the revision that for uranium in ore dust the allowable limit is now 0.2 milligrams per cubic meter of air. This replaces the former limit of 5×10^{-11} micro-curies/ml or 75 micrograms per cubic meter of natural uranium.

It is not clear as to whether or not the same limit applies to natural uranium dust in the mill.

It would be appreciated if this matter could be clarified for us. Please send a copy to Mr. M.D. Lawton at the Lisbon mine.

Yours very truly,



P. F. PULLEN
Chief Environmental Engineer

c.c. M.D. Lawton
J. Zimmerman

PFP:fbk

9603210256 760119
PDR ADOCK 04008084
C PDR

ATTACHMENT 2.I

REQUEST FOR RELIEF ISPT-07

Subject: Removal of Code Class 1 and 2 Bolted Connection Insulation for VT-2 Examinations.

Components: All pressure retaining bolting in Class 1 and 2 components borated for reactivity control which are located inside containment and are not visible due to insulation of the component.

Code

Requirements: For systems borated for the purpose of controlling reactivity, insulation shall be removed from pressure retaining bolted connections for visual examination VT-2. IWA-5242(a), 1989 Edition ASME Section XI.

Basis for

Relief: The leakage test of Code Class 1 components is performed at the completion of each refueling outage with the unit in hot standby and the reactor coolant system at full pressure and temperature. The Section XI Code Class 1 leakage test is generally the final activity before unit restart following the refueling outage. Compliance with the Code requirements would involve holding the unit in the hot standby mode after completion of the VT-2 examination of all Code Class 1 components to enable replacement of insulation at each Code Class 1 bolted connection and the removal of scaffolding necessary for reinstallation of insulation. This situation places a hardship on the plant for the following reasons:

1. Entering containment to replace thermal insulation and to remove scaffolding when the unit is at full temperature, jeopardizes the safety of personnel due to heat stress and the potential for burns resulting from contact with hot components.
2. Insulation replacement activities require holding the unit in hot standby mode until all work is completed and all personnel have exited containment. These activities will delay the return of the unit to production for several hours.

The purpose of removing insulation from pressure retaining bolting for visual examination is to inspect for borated water leakage that could cause corrosion of the bolting. Due to the deposits of boron crystals that remain where borated water leakage occurs, it is not necessary to actually see the fluid leakage in order to determine where leakage has occurred. Therefore, borated water leakage inspections can be effectively performed when the system is depressurized. For this reason the hardships resulting from Code compliance are not commensurate with the increase in safety achieved.

The leakage testing of the Code Class 2 components inside containment is performed in conjunction with the Code Class 1 components during unit startup following each refueling outage when the components are pressurized to full system operating pressure. The basis for deferral of insulation removal for these components is the same as that for Code Class 1.

Alternative
Test:

The alternative test of Code Case N-533 will be performed at each refueling outage.

REQUEST FOR RELIEF ISPT-08

Subject: Alternative Rules for Corrective Actions for Leakage Discovered at Bolted Connections

Components: All pressure retaining bolting in Class 1, 2 and 3 pressure retaining bolted connections.

Code

Requirements: "If leakage occurs at a bolted connection, one of the bolts shall be removed, VT-3 examined, and evaluated in accordance with IWA-3100. The bolt selected shall be the one closest to the source of the leakage." IWA-5250(a)(2), 1990 Edition ASME Section XI.

Basis for Relief:

ASME Section XI inservice pressure tests are, as a rule, performed with the system inservice. In particular, the Code Class 1 leakage tests are performed as the unit is returning to service following each refueling outage. The requirement to immediately remove bolting from a mechanical connection when evidence of leakage is detected can create a significant hardship on the plant which is not commensurate with the increase in the level of quality and safety that is provided. For systems that are aligned to normal plant operating configuration during testing, paragraph IWA-5250(a)(2) may require the system be taken out of service and depressurized to permit removal of one of the bolts prior to any type of engineering analysis of the connection. An engineering evaluation of the leak and the affected mechanical connection may be able to determine that sufficient structural integrity exists in the connection and that removal of bolting for visual examination in compliance with paragraph IWA-5250(a)(2) can be deferred to the next unit outage without a reduction in component safety margin.

Alternative Test:

When evidence of leakage is discovered at a bolted connection during a Section XI inservice pressure test, the connection will be evaluated for structural integrity using the following factors:

1. Size of the leak
2. Duration of leak
3. Bolting and flange materials
4. Visual evidence of corrosion with the connection assembled
5. Corrosiveness of the process fluid
6. Experience with similar bolting material in similar environment
7. Degradation of other components in the vicinity of the leakage

When the engineering evaluation determines that the bolted connection possesses sufficient structural integrity for continued operation, removal of the bolt may be deferred to the next unit outage of sufficient duration to allow the system to be removed from service and depressurized. Should the engineering evaluation determine that sufficient structural integrity does not exist at the connection, provisions will be made to remove one bolt for visual examination (VT-3) in compliance with IWA-5250(a)(2).