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**Department of Energy**

Idaho Operations Office  
West Valley Project Office  
P.O. Box 191  
West Valley, NY 14171

January 7, 1994

Mr. Gary C. Comfort  
Headquarters  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

**SUBJECT:** Transmittal of Updated Information for the West Valley Demonstration Project  
Vitrification Facility NRC Readiness Notebook

- REFERENCES:**
- 1) Letter JJM:033:93 (1671:93:10), T. J. Rowland to G. C. Comfort, "Transmittal of the West Valley Demonstration Project (WVDP) Vitrification Facility Nuclear Regulatory Commission (NRC) Readiness Notebook, Volumes III - VI," dated September 20, 1993
  - 2) Letter JJM:022:93 (1671:93:10), T. J. Rowland to G. C. Comfort, "Transmittal of the West Valley Demonstration Project (WVDP) Vitrification Facility Nuclear Regulatory Commission (NRC) Readiness Notebook, Volumes I - II," dated August 12, 1993

Dear Mr. Comfort:

The West Valley Demonstration Project (WVDP) Vitrification operational readiness activities includes the development of the Vitrification Facility NRC Readiness Notebook (Notebook) for the Nuclear Regulatory Commission (NRC). The purpose of the Notebook is to ensure the NRC is provided with the necessary information to support their effort in assessing the operational readiness of radioactive vitrification operations at WVDP. References 1 and 2 delineate the overall strategy of the Notebook. Also, as discussed in the references, updates to the Notebook will be provided to the NRC periodically by West Valley Project Office (WVPO).

The WVPO is providing as an enclosure to this letter, updated documentation to be incorporated into the Notebook. In an effort to conserve time and resources, only the updated drawings in Volume I are being provided instead of replacing the entire two hundred drawings originally issued. Attachment A provides instructions for updating the Notebook.

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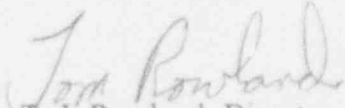
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January 7, 1994

It is the WVPO's goal to ensure the NRC is provided with the necessary information in a timely manner to support their effort in assessing the operational readiness of radioactive vitrification operations at WVDP. In addition, WVPO would like to extend an invitation to the NRC to witness the on-going vitrification testing activities at WVDP. If there are any questions regarding this matter or an interest in observing testing activities, contact J. J. May at (716) 942-2161 or W. S. Ketola at (716) 942-4314.

Sincerely,

  
T. J. Rowland, Director  
West Valley Project Office

- Enclosures: A. Instructions for Updating the Contents of the Vitrification Facility NRC  
Readiness Notebook, Volume I (3 copies)  
B. Revised Drawing List and Drawings (3 copies)

cc: J. Furia, NRC Region I, w/enc. (3 copies)  
T. W. McIntosh, EM-343, TREV II, w/enc. (1 copy)  
W. S. Ketola, WVPO, w/o enc.  
F. W. Damerow, WVNS, MS 51, w/o enc.

JJM:048:93 - 1671:93:10

JJM/smn

Instructions for Updating the Contents of the  
Vitrification Facility NRC Readiness Notebook Volume I

Attached you will find two drawing lists and two drawing replacement packages, Group 1 and Group 2. Please follow the instruction detailed below to update Volume I of the Vitrification Facility NRC Readiness Notebook. Note that on the drawing lists, lines appearing at the left of the drawing number have been recently updated and are the same drawings to be replaced in your NRC Readiness Notebook.

Group 1

In Section 1.2: P&IDs, of your NRC Notebook, replace the list of P&ID drawings dated 7/01/93 with the attached list of drawings titled Section 1.2: P&IDs dated 10/22/93.

The drawings in your package labelled Group 1 will go into this section behind the drawing list. Drawing numbers, names, and number of sheets per drawing are identified in the title block which appears on the bottom right corner of each drawing. For example, the first drawing in your Group 1 package is titled, Canister Welding Station, 63-V-049, P&ID, 900E-705, sheet 24. Carefully match the drawings and sheet numbers in your Group 1 package to the original drawings and sheet numbers in your NRC Notebook and replace each drawing with its updated version. The drawings in Group 1 are not consecutive but are in the same sequence as your NRC Notebook.

Group 2

After you have replaced the drawings in Section 1.2, move onto Section 1.3: General Arrangement Drawings of your NRC Notebook. Replace the list of General Arrangement Drawings dated 7/08/93 with the attached list of drawings titled Section 1.3: General Arrangement Drawings dated 10/22/93.

The drawings in your package labelled Group 2 will go into the subsections of Section 1.3. The first three drawings in your Group 2 package will replace drawings in Section 1.3.1 Vitrification Facility. (As in the Group 1 drawing replacement, match the title block drawing name, number, and sheet number of your Group 2 package to the original drawings in your NRC Notebook and replace each drawing with its updated version. The drawings in Group 2 are not consecutive but are in the same sequence as your NRC Notebook.) The fourth drawing in your Group 2 package will replace the same drawing in Section 1.3.2 Tank Farm of your NRC Notebook. The remaining drawings in your Group 2 package will replace drawings in Section 1.3.4 Ex-Cell Off-Gas 0-i4 Building of your NRC Notebook.

After you have completed replacing drawings in each section, you may wish to compare the drawing list included in the front of sections 1.2: P&IDs and 1.3: General Arrangements to the actual order of drawings in your NRC Notebook.

Group 1

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900-D-2318	Sht:001	Rev:009	Title: Waste Mobil. Pump P&ID 8D-1-M6
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900-D-2318	Sht:002	Rev:007	Title: Waste Mobil Pump P&ID 8D-1-M4
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900-D-2318	Sht:003	Rev:006	Title: Waste Mobil Pump P&ID 8D-1-M3
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900-D-2318	Sht:004	Rev:006	Title: Waste Mobil Pump P&ID 8D-1-M2
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900-D-2318	Sht:005	Rev:006	Title: Waste Mobil Pump P&ID 8D-1-M1
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900-D-2318	Sht:006	Rev:006	Title: Waste Mobil Pump P&ID 8D-2-M6
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900-D-2318	Sht:007	Rev:006	Title: Waste Mobil Pump P&ID 8D-2-M5
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900-D-2318	Sht:008	Rev:007	Title: Waste Mobil Pump P&ID 8D-2-M3
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900-D-2318	Sht:009	Rev:006	Title: Waste Mobil Pump P&ID 8D-2-M2
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900-D-2318	Sht:010	Rev:008	Title: Waste Mobil Pump P&ID 8D-2-M1
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900-D-2731	Sht:001	Rev:002	Title: VF STACK SAMPLING SYSTEM P AND ID
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900-D-2803	Sht:001	Rev:000	Title: Cold Chemical building HAV air flow diagram and P&ID
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900-D-4072	Sht:001	Rev:000	Title: WTP INTERIM CHEM. & SLUDGE WASH WATER ADD. SYS P&ID
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900-D-4525	Sht:001	Rev:003	Title: WTP INTERIM CHEM & SLUDGE WASH WATER ADDITION SYS P&ID
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900-E-705	Sht:002	Rev:015	Title: CTS concentrator feed makeup tk. 63 v001 P&ID
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900-E-705	Sht:003	Rev:013	Title: CTS melter feed hold tk 63 v011 P&ID
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900-E-705	Sht:004	Rev:012	Title: CTS waste header V-045 vit. cell P&ID
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900-E-705	Sht:005	Rev:007	Title: CTS - ADS sample pump & P&ID
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900-E-705	Sht:006	Rev:009	Title: CTS fht ads pump 63g011 P&ID
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900-E-705	Sht:021	Rev:010	Title: CTS melt off gas sys preheater & hemes P&ID
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900-E-705	Sht:022	Rev:015	Title: CTS vessel off gas filters & heaters P&ID
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900-E-705	Sht:023	Rev:009	Title: canister decontamination Tank 63-V-044 P&ID
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900-E-705	Sht:024	Rev:005	Title: CTS-MAINTENANCE & CAPPING STATION P&ID
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900-E-705	Sht:025	Rev:002	Title: Ex-Cell Vent Header P&ID
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903-D-013	Sht:001	Rev:006	Title: P&ID STS UTILITY WATER SYSTEM
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903-D-014	Sht:001	Rev:015	Title: P&ID STS UTILITY & INSTRUMENT AIR
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903-D-014	Sht:002	Rev:010	Title: STS P&ID (V&S Bldg) UTILITY & INST. AIR
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903-D-016	Sht:001	Rev:015	Title: STS P&ID FILTRATION & COOLING SECTION
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903-D-017	Sht:001	Rev:011	Title: STS P&ID ION EXCHANGE SECTION SHEET 1
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903-D-018	Sht:001	Rev:011	Title: STS P&ID ION EXCHANGE SECTION SHEET 2
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903-D-019	Sht:001	Rev:013	Title: STS P&ID FINAL FILTRATION & STORAGE
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903-D-020	Sht:001	Rev:011	Title: STS P&ID ZEOLITE FILL & SLUICE SECTION
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903-D-021	Sht:001	Rev:009	Title: STS P&ID VENTING/CHILLER SECTION
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904-D-011	Sht:001	Rev:008	Title: P&ID sludge mobilization sys. 8Q-4Pit
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904-D-012	Sht:001	Rev:007	Title: P&ID Sludge mobilization system 8Q-1 pit
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904-D-013	Sht:001	Rev:009	Title: P&ID Sludge Mobilization system 8Q-2 pit
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904-D-014	Sht:001	Rev:008	Title: P&ID sludge mobilization system 8Q-5 pit
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904-D-015	Sht:001	Rev:007	Title: P&ID sludge mobilization sys utility water/chemical system and seal water systems
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904-D-016	Sht:001	Rev:004	Title: P&ID sludge mobilization system utility air system
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905-D-010	Sht:001	Rev:000	Title: VF SHIELDING GAS & ARGON GAS SYSTEM P&ID
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905-D-011	Sht:001	Rev:009	Title: P&ID Vitrification Drainage system high level
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905-D-015	Sht:001	Rev:010	Title: P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
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905-D-016	Sht:001	Rev:010	Title: P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
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905-D-017	Sht:001	Rev:011	Title: P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
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905-D-018	Sht:001	Rev:008	Title: P&ID COLD CHEMICAL PREPARATION & FEED SYSTEM
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905-D-019	Sht:001	Rev:005	Title: P&ID COLD CHEMICAL STEAM & CONDENSATE SYSTEM
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905-D-020	Sht:001	Rev:007	Title: P&ID COLD CHEMICAL UTILITY & INSTRUMENT AIR
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905-D-021	Sht:001	Rev:006	Title: P&ID COLD CHEMICAL WATER SYSTEMS
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905-D-022	Sht:001	Rev:005	Title: P&ID COLD CHEMICAL ACID & CAUSTIC SYSTEMS
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905-D-023	Sht:001	Rev:012	Title: P&ID diesel fuel oil transfer system
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905-D-024	Sht:001	Rev:005	Title: P&ID COLD CHEMICAL FIRE PROTECTION
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905-D-025	Sht:001	Rev:004	Title: P&ID secondary filter, diesel gen & crane maintenance room
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905-D-026	Sht:001	Rev:003	Title: P&ID Vitrification facility utility water system
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905-D-027	Sht:001	Rev:004	Title: P&ID vitrification facility non rack cold chemical decon system
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905-D-028	Sht:001	Rev:004	Title: P&ID vitrification facility steam system
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905-D-029	Sht:001	Rev:009	Title: P&ID vitrification facility instrument & utility air sys
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905-D-044	Sht:001	Rev:001	Title: VF SFR & CMR HIGH PRESSURE AIR SYSTEM P&ID
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905-D-045	Sht:001	Rev:003	Title: P&ID Vitrification facility instrument rack 3W2-1A
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905-D-045	Sht:002	Rev:003	Title: P&ID Vitrification facility instrument rack 3E8-7A
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905-D-045	Sht:003	Rev:005	Title: P&ID Vitrification facility instrument rack 2N7-6
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905-D-045	Sht:004	Rev:004	Title: P&ID Vitrification facility instrument rack 2N6-5
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905-D-045	Sht:005	Rev:003	Title: P&ID Vitrification facility
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905-D-045	Sht:006	Rev:003	Title: P&ID Vitrification facility instrument rack 2E9-8
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905-D-045	Sht:007	Rev:002	Title: P&ID Vitrification Facility instrument rack 2W3-2
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905-D-045	Sht:008	Rev:003	Title: P&ID Vitrification facility instrument rack 3E9-7B
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905-D-045	Sht:009	Rev:003	Title: P&ID Vitrification facility instrument rack 3W7
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905-D-045	Sht:010	Rev:004	Title: P&ID Vitrification facility instrument rack 2N8
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905-D-045	Sht:011	Rev:006	Title: P&ID Vitrification facility instrument rack 3W4
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905-D-045 Sht:012 Rev:006 Title: P&ID Vitrification facility instrument rack 3W5 sheet 1

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905-D-045 Sht:013 Rev:004 Title: P&ID Vitrification facility instrument rack 3W6

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905-D-045 Sht:014 Rev:002 Title: P&ID Vitrification facility instrument rack 3W3

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905-D-045 Sht:015 Rev:002 Title: P&ID Vitrification facility instrument rack 3W1

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905-D-045 Sht:016 Rev:005 Title: P&ID Vitrification facility instrument rack 2W4

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905-D-045 Sht:017 Rev:003 Title: P&ID Vitrification facility instrument rack 2W5

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905-D-045 Sht:018 Rev:003 Title: P&ID Vitrification facility instrument rack 3E10

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905-D-045 Sht:019 Rev:001 Title: P&ID Vitrification facility instrument rack 2E10

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905-D-045 Sht:020 Rev:003 Title: P&ID Vitrification facility instrument rack 3W5 Sheet 2

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905-D-046 Sht:001 Rev:018 Title: P&ID vitrification facility utility air system

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905-D-046 Sht:002 Rev:008 Title: P&ID vitrification facility instrument air system

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905-D-046 Sht:003 Rev:009 Title: P&ID vitrification facility instrument air system

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905-D-046 Sht:004 Rev:000 Title: VF P&ID UTILITY AIR SYSTEM

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905-D-047 Sht:001 Rev:011 Title: P&ID vitrification facility steam system

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905-D-047 Sht:002 Rev:010 Title: P&ID vitrification facility condensate system

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905-D-047 Sht:003 Rev:010 Title: P&ID vitrification facility steam system

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905-D-048 Sht:001 Rev:008 Title: P&ID vitrification facility utility water system

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905-D-048	Sht:002	Rev:010	Title: P&ID vitrification facility demineralized water system
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905-D-049	Sht:001	Rev:003	Title: P&ID vitrification facility fire protection systems
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905-D-050	Sht:001	Rev:006	Title: P&ID vitrification drainage system low level
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905-D-051	Sht:001	Rev:009	Title: P&ID vitrification facility potable water system
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905-D-052	Sht:001	Rev:007	Title: Vitrification facility closed loop cooling water system P&ID
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905-D-052	Sht:002	Rev:010	Title: Vitrification facility closed loop cooling water system P&ID
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905-D-053	Sht:001	Rev:005	Title: P&ID vitrification facility non rack cold chem. decon & slurry system
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905-D-053	Sht:002	Rev:007	Title: P&ID vitrification facility non rack cold chem decon & slurry system
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905-D-054	Sht:001	Rev:009	Title: P&ID vitrification facility cooling tower water system
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905-D-055	Sht:001	Rev:001	Title: VOID PER ECN P&ID vitrification facility off gas condensate system
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905-D-056	Sht:001	Rev:006	Title: P&ID vitrification facility vent header system
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905-D-057	Sht:001	Rev:004	Title: Vitrification Rest Rooms P&ID
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905-D-058	Sht:001	Rev:002	Title: PNEUMATIC SAMPLE TRANSFER SYSTEM P&ID
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905-D-058	Sht:002	Rev:000	Title: PNEUMATIC SAMPLE TRANSFER SYSTEM P&ID
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905-D-450	Sht:001	Rev:005	Title: HVAC air flow diagram vitrification facility
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905-D-451	Sht:001	Rev:005	Title: HVAC air flow diagram & P&ID control room
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905-D-452	Sht:001	Rev:013	Title: HVAC P&ID vitrification facility
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905-D-452 Sht:002 Rev:009 Title: HVAC P&ID vitrification facility

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905-D-452 Sht:003 Rev:004 Title: VS HVAC P&ID VITRIFICATION FACILITY

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905-D-453 Sht:001 Rev:008 Title: Vitrification facility HVAC chilled water system P&ID sh 1

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905-D-453 Sht:002 Rev:001 Title: Vitrification facility HVAC chilled water system P&ID sh 3

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905-D-454 Sht:001 Rev:006 Title: Vitrification facility HVAC chilled water P&ID sh 2

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905-E-045 Sht:021 Rev:002 Title: P&ID VITRIFICATION FACILITY INSTRUMENT RACK 3WB

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906-D-009 Sht:001 Rev:001 Title: VF EX-CELL OFF-GAS MISCELLANEOUS UTILITIES P&ID

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906-D-014 Sht:001 Rev:004 Title: VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM

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906-D-015 Sht:001 Rev:005 Title: VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM

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906-D-018 Sht:001 Rev:004 Title: VF MELTER OFF-GAS HVAC AIR FLOW DIAGRAM & P&ID

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906-D-019 Sht:001 Rev:001 Title: VOID PER ECN VF MELTER OFF-GAS HVAC AIR FLOW DIAGRAM & P&ID

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906-D-025 Sht:001 Rev:007 Title: VF MELTER OFF-GAS P&ID INSTRUMENT RACK 01

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906-D-026 Sht:001 Rev:006 Title: VF MELTER OFF-GAS P&ID INSTRUMENT RACK 02

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906-D-027 Sht:001 Rev:006 Title: VF MELTER OFF-GAS P&ID INSTRUMENT RACK 02

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906-D-028 Sht:001 Rev:006 Title: VF MELTER OFF-GAS P&ID INSTRUMENT RACK 02

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906-E-011 Sht:001 Rev:006 Title: VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM

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906-E-012 Sht:001 Rev:008 Title: VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM

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906-E-012 Sht:002 Rev:001 Title: VF P&ID MELTER EX-CELL OFF-GAS SYS

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906-E-013 Sht:001 Rev:007 Title: VF MELTER OFF-GAS P&ID MELTER EX CELL OFF GAS SYSTEM

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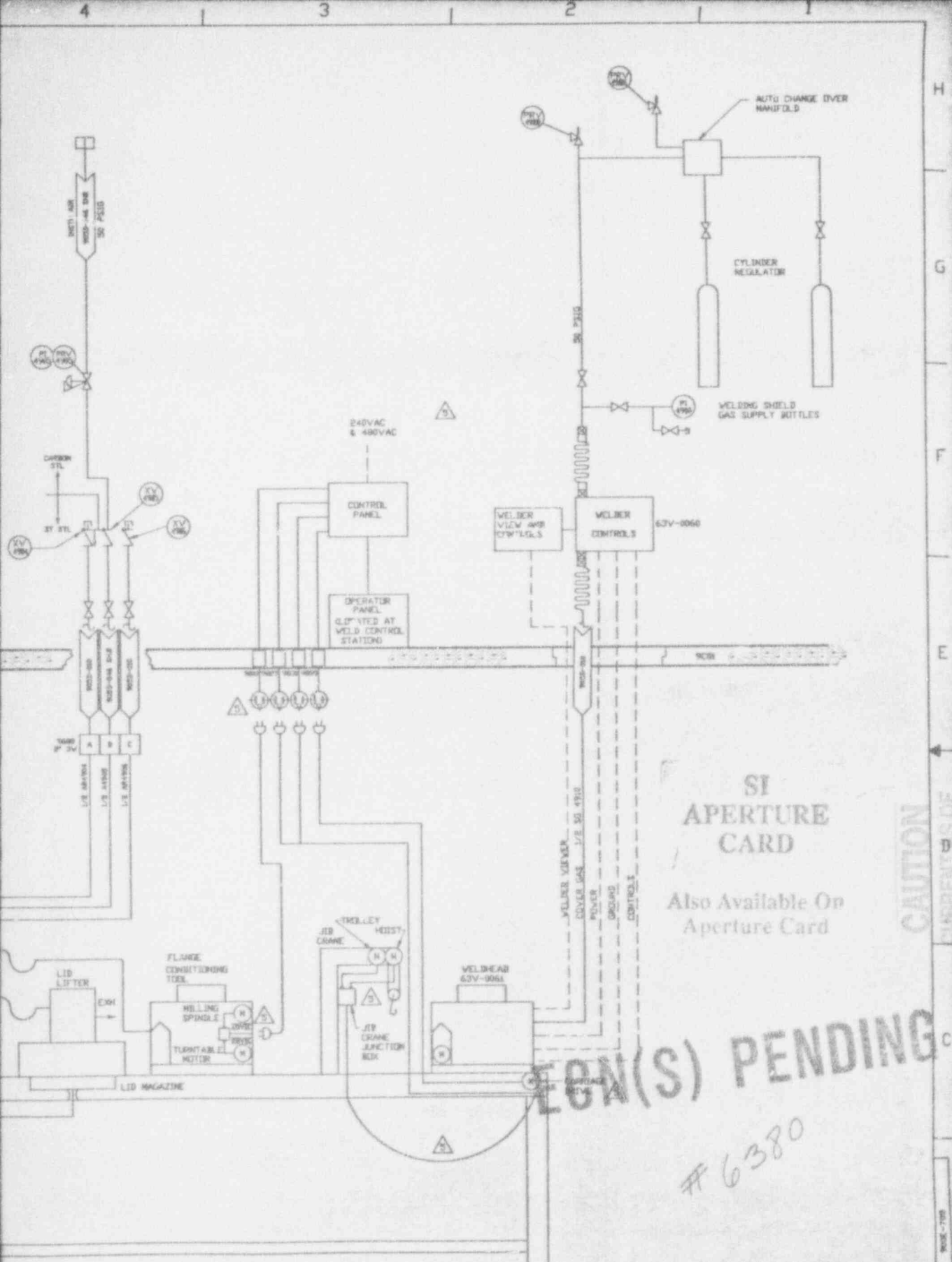
906-E-016 Sht:001 Rev:006 Title: VF MELTER OFF-GAS P&ID INSTRUMENT AIR

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906-E-017 Sht:001 Rev:001 Title: VF P&ID OFF-GAS TRENCH

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SI  
APERTURE  
CARD

Also Available On  
Aperture Card

CAUTION  
CURRENTS OF

OCT 14 '58

CHECK DOCUMENT CONTROL  
FOR LATEST REVISION.

EGN(S) PENDING

#6380

9401180105-01

CANISTER WELDING STATION  
63-V-049

REV. NO.	DESCRIPTION	DATE	BY	APP. NO.	REV. NO.	DESCRIPTION	DATE	BY	APP. NO.
1	ISSUED	5/25/58	P. BLANK		1	ISSUED	5/25/58	P. BLANK	
2	REVISIONS TO NOT SCALE	5/25/58	P. BLANK		2	REVISIONS TO NOT SCALE	5/25/58	P. BLANK	
3	REVISIONS TO NOT SCALE	5/25/58	P. BLANK		3	REVISIONS TO NOT SCALE	5/25/58	P. BLANK	
4	REVISIONS TO NOT SCALE	5/25/58	P. BLANK		4	REVISIONS TO NOT SCALE	5/25/58	P. BLANK	
5	REVISIONS TO NOT SCALE	5/25/58	P. BLANK		5	REVISIONS TO NOT SCALE	5/25/58	P. BLANK	

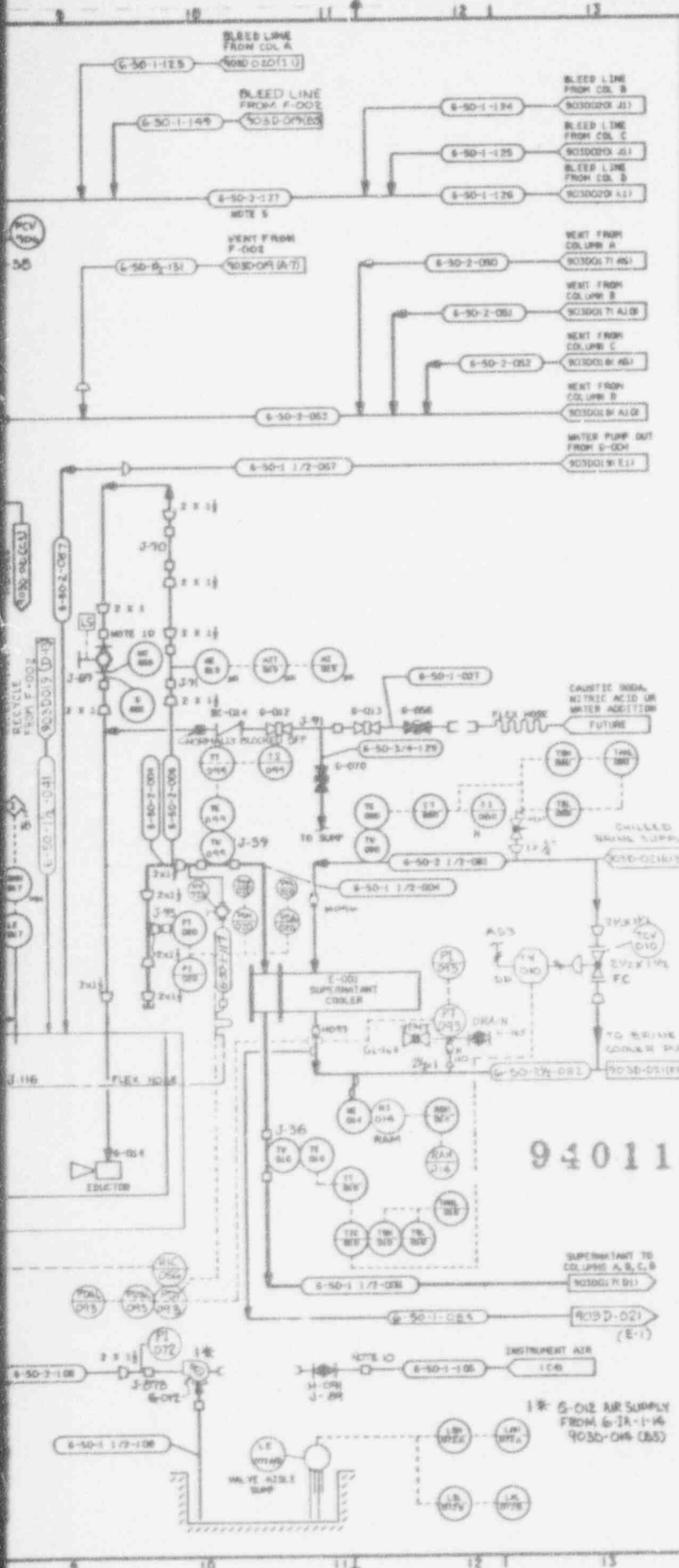
CANISTER WELDING STATION  
63-V-049  
PIPING & INSTRUMENT DIAGRAM

SCALE: NONE  
REV: 5  
EAC: 900E-705

EAC DRAWING-REV NOT IN USE THIS DRAWING



903D-016



NO.	DATE	REVISION	DR	CH	APPROVED
1	5-13-88		RE	BAH	WVS
GENERAL REVISION					
2	1/2/88	REV PER ECN 4554			WVS
3	7-6-93	REV PER ECN 4585	WVS	WVS	WVS
4	7-22-93	REV PER ECN 4551	WVS	WVS	WVS
5	5/2/87	REV PER ECN 1529	WVS	WVS	WVS
6	7/21/77	REV PER ECN 1737	WVS	WVS	WVS
7	11-3-81	REV PER ECN 2024	WVS	WVS	WVS
8	12-10-87	REV PER ECN 2087	WVS	WVS	WVS
9	1-25-88	REV PER ECN 2138	WVS	WVS	WVS
10	3-22-88	REV PER ECN 2320	WVS	WVS	WVS
11	6/3/88	REVISED PER ECN 2458	WVS	WVS	WVS
12	6/26/89	REVISED PER ECN 3005	WVS	WVS	WVS
13	1-29-91	REVISED PER ECN 4133	WVS	WVS	WVS
14	3/22/91	REV PER ECN 4210	WVS	WVS	WVS
15	10/4/91	REVISED PER ECN 4597	WVS	WVS	WVS

NOTES:

- FOR SYMBOLS, NOTES AND LEGEND SEE DRAWINGS 400D-436 SHI 1-4
- OPERATING VALVE POSITIONS ARE SHOWN IN THE PROCESS NARRATIVE AND CONTROL CONCEPTS DOCUMENT.
- EXISTING INSTRUMENT.
- DELETED
- SELF-DRAINING PIPE SYSTEM TO TANK D-001.
- DELETED
- AIR LEGEND AS FOLLOWS:  
 AS1 = 100 psig - UTILITY AIR  
 AS2 = 50 psig - INSTRUMENT AIR  
 AS3 = 20 psig - INSTRUMENT AIR  
 AS4 = 100 psig - INSTRUMENT AIR
- LINE TO BE SELF-DRAINING, NO POCKETS FROM FCV-015 TO F-001 MODULES.
- BLOCK CONNECTOR MUST BE BORED TO 1/2".
- T DENOTES HANDWHEEL FOR MANUAL VALVES THAT OPERATED REMOTELY WITH MANIPULATOR ARMS.
- INSTRUMENT RACK LEGEND  
 SVB = SOLENOID VALVE BOX 50-IR-010  
 D = I/P CONVERTER, DC CELLS AND BUBBLER RACK  
 50-IR-040, DC-DC JUNCTION BOX 50-IR-030  
 WH = WALL MOUNTED
- THE SYSTEM DESIGNATION FOR STS IS 50. ALL INSTRUMENT LOOP NUMBERS ARE PRECEDED BY A 50. ALL VALVE TAG NUMBERS ARE PRECEDED BY 6-50.
- LIMIT SWITCH SYMBOLS  $\square$  SHOWN WITH VALVES ARE ALL INTERLOCKED WITH THE PROGRAMMABLE CONTROLLER PLC 200.
- INTERLOCKS:  $\circlearrowright$  THIS SYMBOL INDICATES A PROCESS CONTROL INTERLOCK EXISTS WITH THAT PARTICULAR ELEMENT THRU THE PROGRAMMABLE CONTROLLER PLC 200. FOR INTERLOCK DETAIL DESCRIPTION SEE WYNS-EQ-200B.

9401180105 - 02

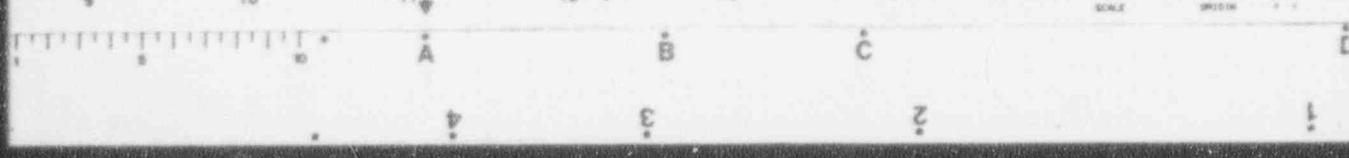
APPROVED FOR CONSTRUCTION	DATE	BY	WVS
PROJECT NO.	903D-016	TANK ORDER NO.	
DESIGNER	WVS	DATE	7-21-88
CHECKED	WVS	DATE	7-21-88
INSTRUMENT RACK	WVS	DATE	7-21-88
SCALE	AS SHOWN	DRAWING NO.	903D-016
PROJECT NO.	903D-016	REV.	15
ISSUED FOR CONSTRUCTION	DATE	SCALE	AS SHOWN

SI APERTURE CARD

Also Available On Aperture Card

CHECK DOCUMENT CONTROL FOR LATEST REVISION

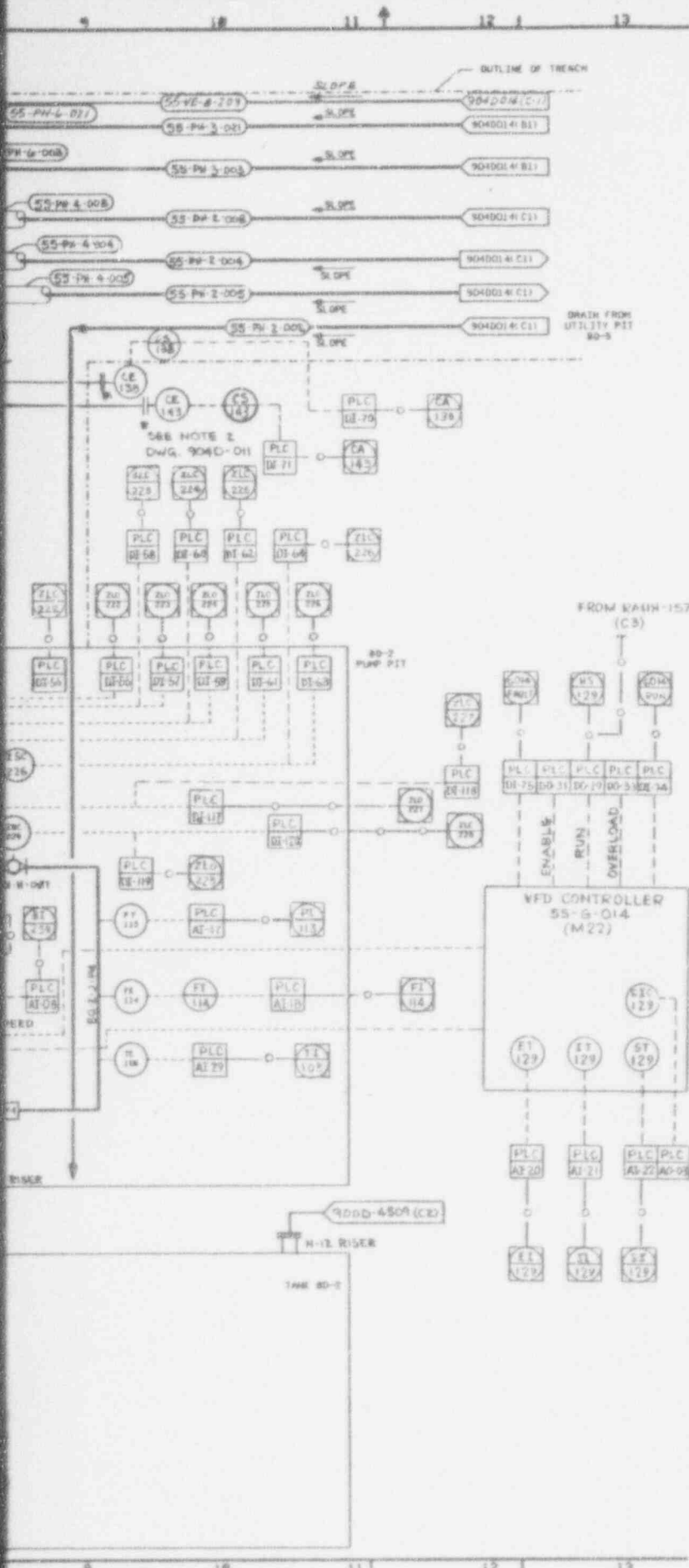
CAUTION







904-D-013



NO.	DATE	REVISION	DR	CH	APPROVED
B	10-10-85		A/J	F/S	A/J F/S P/S
GENERAL REVISION					
C	2-21-90		V/R	A/T	C/L T/R P/S
GENERAL REVISION					
O	3/14/90	ER. 807			
1	4/4/91	GEN REV PER SC8570	CGR	P/S	A/J
2	12-9-91	GEN REV PER ECN 4639	CW	NAB	A/J
3	7-6-92	REV PER ECN 5225	Y/H	W/S	A/J
4	7-21-92	REV PER ECN 5229	JH	W/S	A/J
5	5-20-92	REV PER ECN 5234	P/S	P/S	A/J
6	10-21-92	REV PER ECN 5248	CW	W/S	A/J
7	11-11-92	REV PER ECN 5208	CW	W/S	A/J
8	12-15-92	GEN REV/ECN 5645	PD	W/S	A/J
9	8-3-93	REV PER ECN 6605	CW	W/S	P/S

NOTES:

- FOR NOTES SEE DWG. 904D-011
- SOFTWARE OR DATA LINK

REF. DWGS.:

- PAID SMS BQ-1 PT 904D-012
- PAID SMS BQ-5 PT 904D-014
- PAID SMS CHEM, UTILITY WTR & SEAL WTR. SYS. 904D-015
- PAID SMS UTILITY AIR SYSTEM 904D-016
- FLOW PIPING & INSTRUMENT DIAG. WASTE TANK, FARM, SPENT FUEL, REPROC PLANT 904D-017
- PP&G & INST. DIAG. CON. SD. WASTE 904D-018
- WASTE MOB. PUMP PROCESS & INSTR. DIAG. SD-2-M2 904D-236-54-6
- WASTE MOB. PUMP PROCESS & INSTR. DIAG. SD-2-M5 904D-236-54-7
- WASTE MOB. PUMP PROCESS & INSTR. DIAG. SD-2-M3 904D-236-54-8
- WASTE MOB. PUMP PROCESS & INSTR. DIAG. SD-2-M1 904D-236-54-9
- WASTE MOB. PUMP PROCESS & INSTR. DIAG. SD-2-M1 904D-236-54-10

9401180105-03

WVNS APPROVAL

COE. MGR. *[Signature]*

COE. ENGR. *[Signature]*

DRAFT SUPR. *[Signature]*

D.A. MGR. *[Signature]*

R & S MGR. *[Signature]*

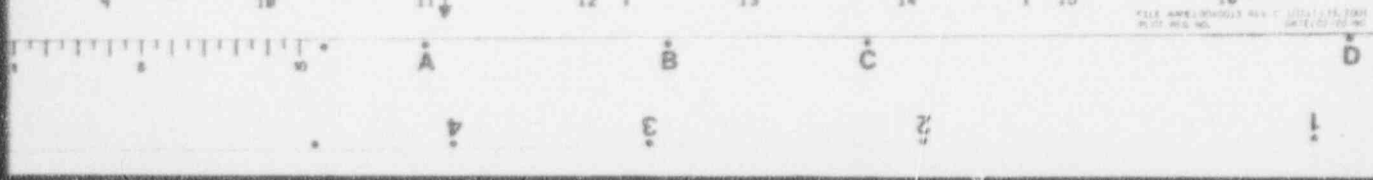
PROJ. MGR. *[Signature]*

FOR DRAWING INDEX SEE DRAWING NO.		EBASCO SERVICES INCORPORATED	
PROJECT NO. 904D-013		AVE. D.F.S. NO. 2288 TASK ORDER 013	
ENGINEER SUPV. P. J. SHERIDAN		WEST VALLEY NUCLEAR SERVICES COMPANY INC	
LEAD DISC ENGR. P. J. SHERIDAN		WEST VALLEY DEMONSTRATION PROJECT	
DESIGN P. J. SHERIDAN		P & ID	
CHECKED P. J. SHERIDAN		SLUDGE MOBILIZATION SYSTEM	
DRAWN P. SHERIDAN		80-2 PIT	
DATE 01-19-90		DRAWING NO. 904D-013	
REV. 9		SCALE 1"=10'-0"	
ISSUED FOR CONSTRUCTION		SHEET NO. 904-D-013	

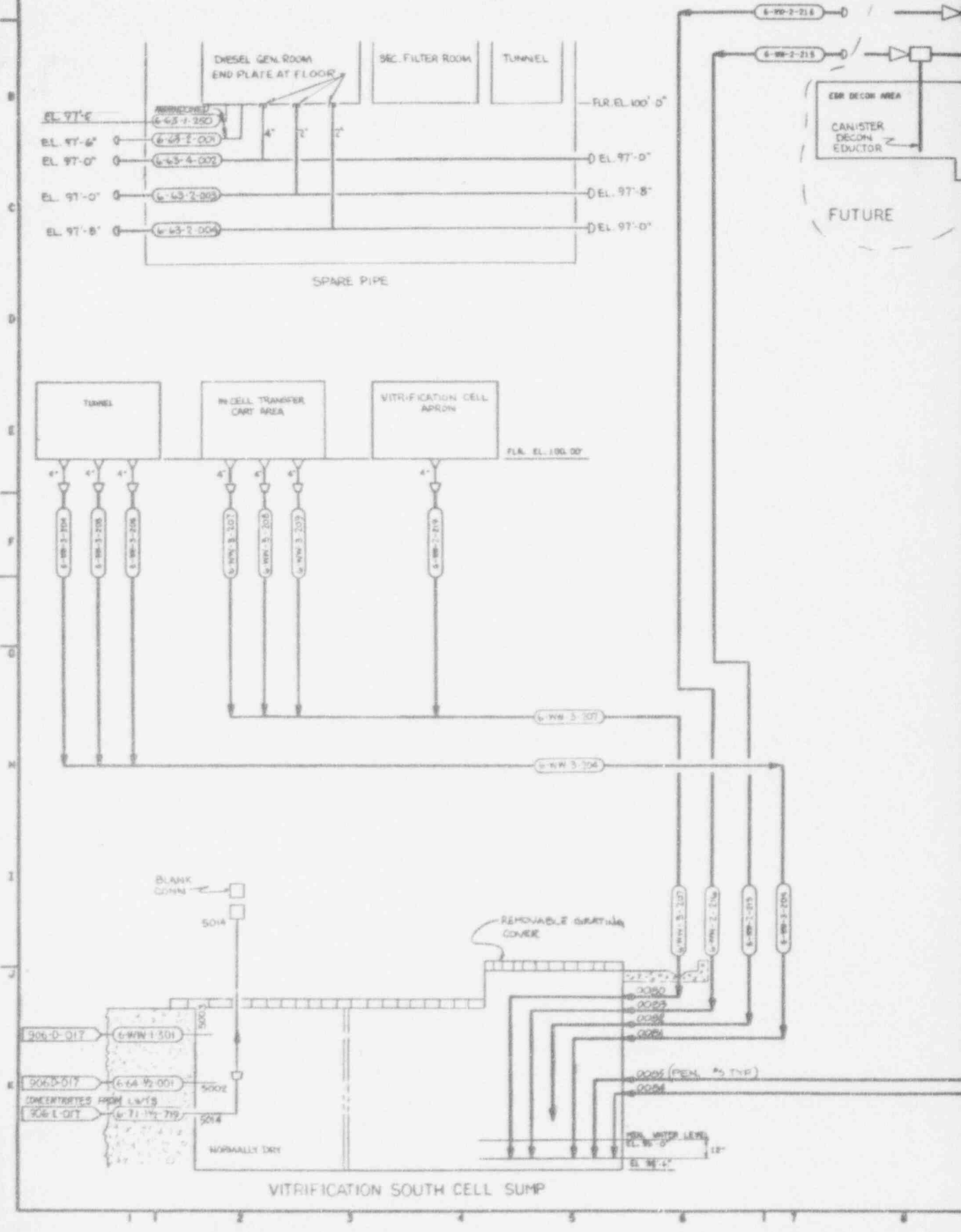
SI APERTURE CARD

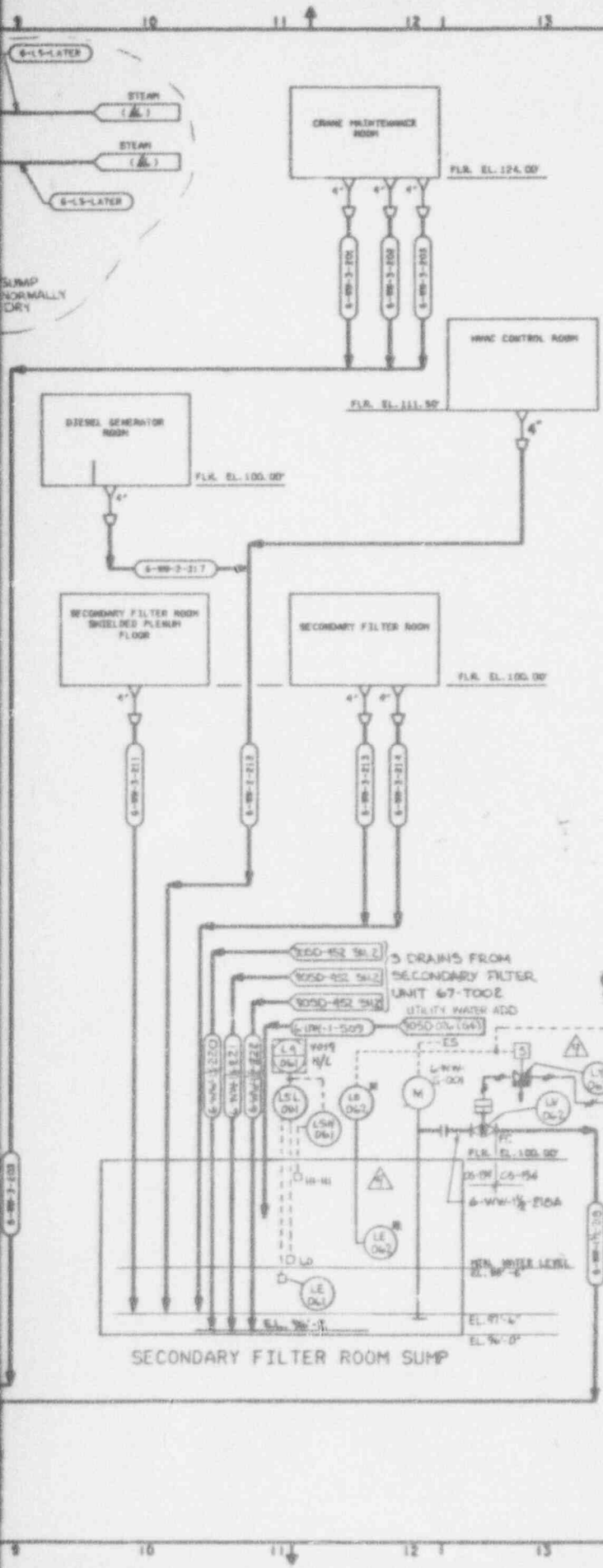
Also Available On Aperture Card

CHECK DOCUMENT CONTROL FOR LATEST REVISION.



905-D-011 C





NO.	DATE	REVISION	DR	CH	APPROVED
B	10-12-91		B.J.L	F.J.P	D.J.L P.F.K M.P.
GENERAL REVISION					
C	11-2-96		A.L	J.B.	M.C. P.B. M.P.
GENERAL REVISION					
D	3/9/99	REV 1567			
1	3/23/99	REVISED PER ECN 2879	E.H.B		D.J.R
2	12/4/99	REV. PER ECN 3287	C.G.R	J.H.S	K.P.F
3	5-9-00	REV. PER ECN 3691	G.M	P.K.	D.J.R
4	7-11-00	REV. PER ECN 3773	B.J.R	C.R.	D.J.R
5	11-17-02	REV. PER ECN 5684	P.D	M.B.	J.P.D
6	12-31-02	REV. PER ECN 5736	P.D	M.B.	M.H.J
7	5-5-03	REV. PER ECN 6301	P.D	M.H.J	D.J.R
8	5-13-03	REV. PER ECN 6348	P.M.K	J.H.S	M.H.J
9	8-31-03	REV. PER ECN 6636	J.N	K.M.H	M.P.

**NOTES**

1. W INDICATES INSTRUMENTS TO BE SUPPLIED BY SUMP PUMP VENDOR.
2. ALL INSTRUMENT TAG NUMBERS ARE PRECEDED BY SYSTEM DESIGNATOR 63
3. ALL DRAIN LINES TO SLOPE TOWARD SUMP 1/8" PER FOOT MINIMUM.
4. DRAINAGE PIPING IN SUMP SHALL BE 12 INCHES BELOW MINIMUM WATER LEVEL AT ALL TIMES

**REFERENCE DRAWINGS**

PAID VITRIFICATION DRAINAGE SYSTEM LOW LEVEL WASTE 905-D-050

9401180705-04

**WVNS APPROVAL**

COG MGR	V. Subramanian	Y. 1/8
COG ENGR	P. P. VITKAS	
DRFT SUPV	A. L. ...	2/2/97
D.A. MGR	V. ...	
R & S MGR	A. A. ...	2/1/97
PROJ MGR		

FOR DRAWING INDEX SEE DRAWING NO.

ISSUED	DATE	BY	REVISION
1	10-12-91	B.J.L	1
2	11-2-96	A.L	2
3	3/9/99		3
4	3/23/99		4
5	12/4/99		5
6	5-9-00		6
7	7-11-00		7
8	11-17-02		8
9	12-31-02		9
10	5-5-03		10
11	5-13-03		11
12	8-31-03		12

PROJECT NO.	905D-011	REV.	9
SCALE	AS SHOWN	DATE	10/1/93

SI APERTURE CARD

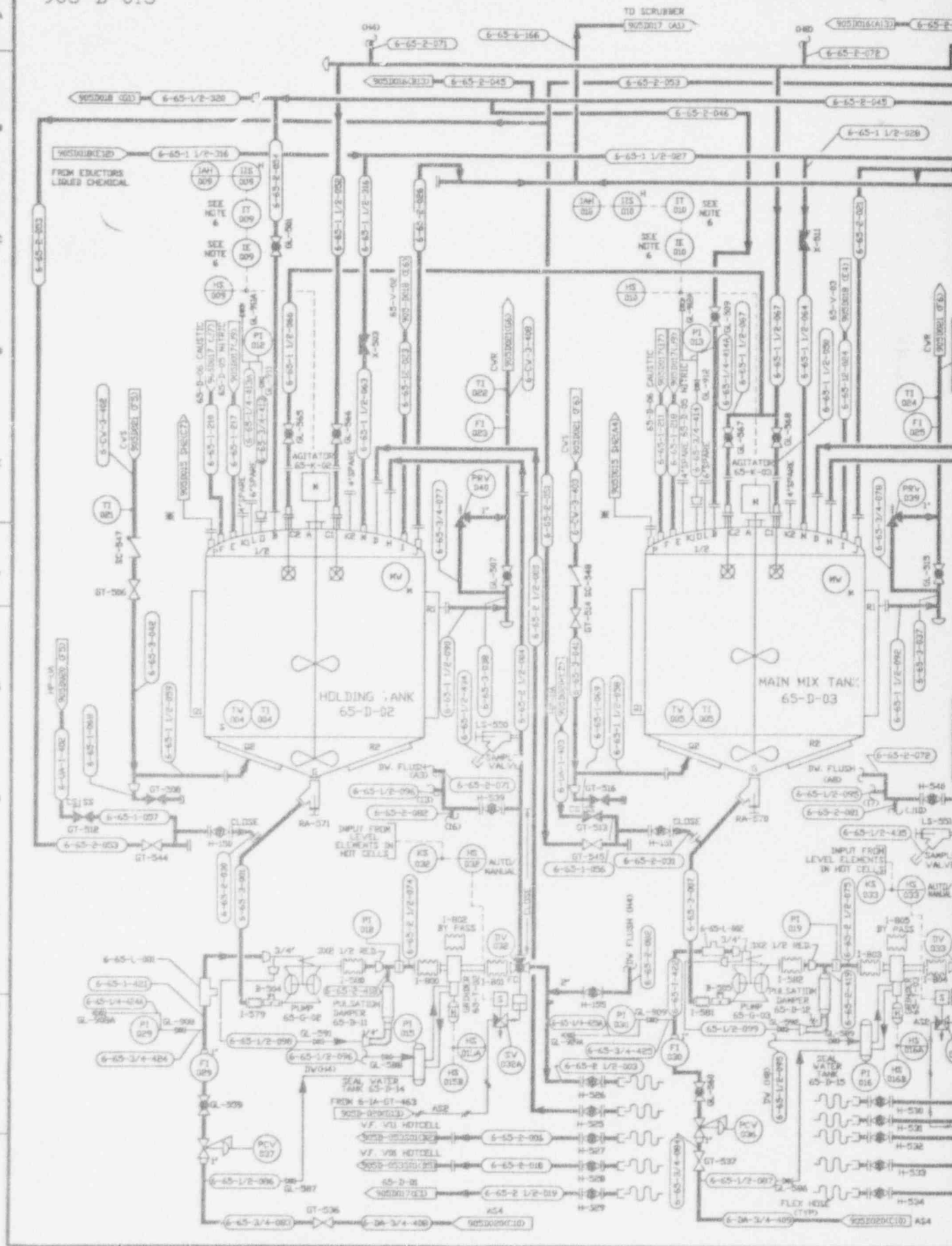
Also Available On Aperture Card

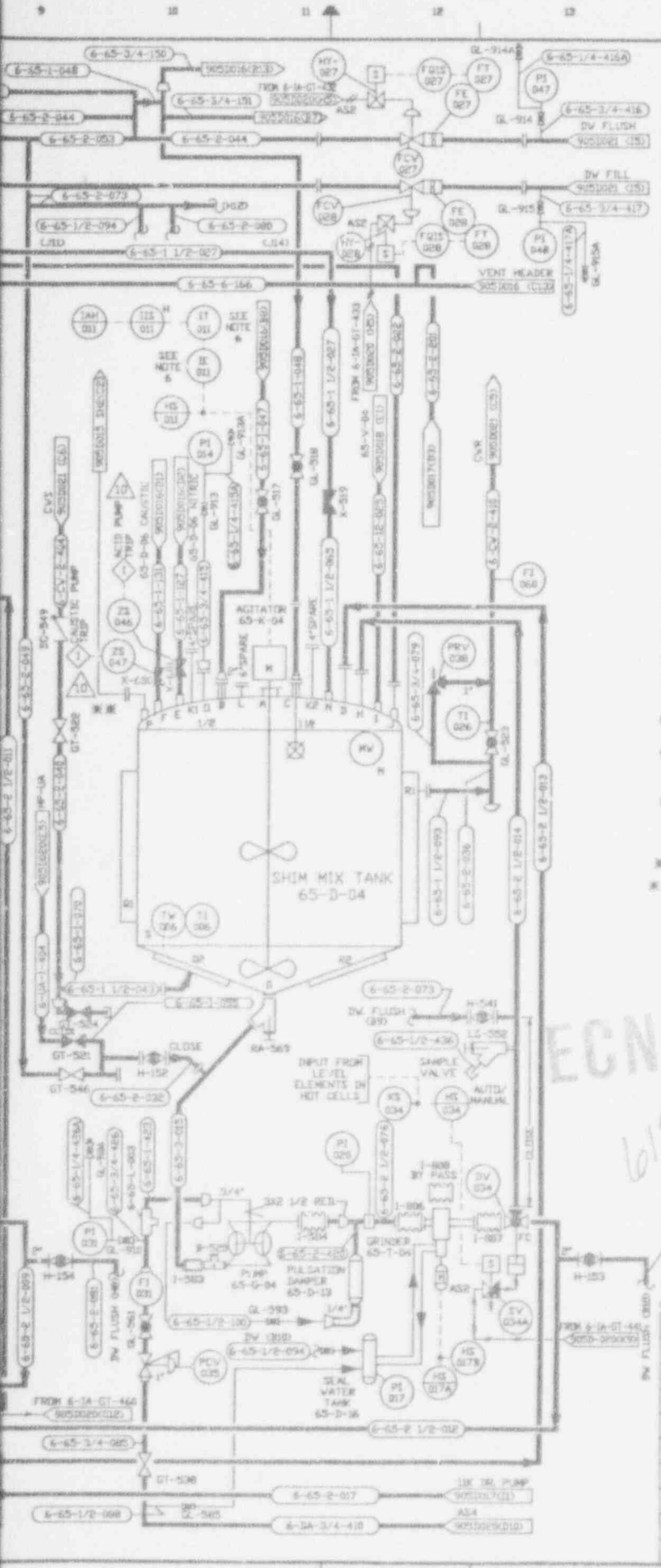
CAUTION CURRENT AS OF

OCT 14 1993

CHECK DOCUMENT CONTROL FOR LATEST REVISION.

905-D-015





NO.	DATE	REVISION	DR	CH	APPROVED
B	05-14-87		TJK	AJD	RJA, AJD, HDV
GENERAL REVISION					
C	08-14-87		TJK	AJD	ECS, RJA, AJD, HDV
REVISION PER EBAR 845A					
D	10/23/87		TJK	HDV	RJA, AJD, HDV
REVISION PER EBAR 945B					
0	10/7/88	CR 1468			JRH
6	1/13/90	REV'D PER ECR 5862	SRS	SRS	ZB
7	2/10/90	REV'D PER ECR 5896	H.A.	SRS	JRH, S/10/90
8	3/1/90	REV'D PER ECR 5974	SRS	SRS	GGT, S/8/90
9	8/24/90	GEN REV PER ECR 6455	J.H.	HAB	GGT
10	9/3/90	REV'D PER ECR 6656	VDR	J.H.	J.H. 9/3/90

REFERENCE DRAWINGS

COLD CHEMICAL UTILITY P & ID'S

- 905-D-019
- 905-D-020
- 905-D-021
- 905-D-022

NOTES

1. AIR SUPPLY LEGEND  
 AS1+100 PSIG UTILITY AIR  
 AS2+30 PSIG INSTRUMENT AIR  
 AS3+20 PSIG INSTRUMENT AD.  
 AS4+100 PSIG DRY UTILITY AIR
2. ALL SLURRY LINES SHALL BE DESIGNED WITH LONG RADIUS 90° BENDS.
3. ALL SLURRY TRANSFER LINES TO BE DESIGNED WITH BREAK FLANGES LOCATED EVERY 10 FEET MAXIMUM.
4. ALL BALL VALVES ON SLURRY SERVICE TO BE FULL PORTED WITH BOLT ON BONNETS.
5. DELETED.
6. THIS ITEM IS LOCATED IN MCC.
7. ALL INSTRUMENT ITEM NUMBERS ARE PRECEDED BY 65-.
8. ALL VALVE/SPECIALTY ITEM NUMBERS ARE PRECEDED BY 6-65-.
9. WEIGH SHALL BE PLACED IN WEIGH SCALE AREA AND AT THE EAST SIDE OF THE EL. 115.87 OPERATING PLATFORM.
10. ALTHOUGH DETAILS ON THIS DRAWING ONLY THE MAIN MIX TANK GRINDER, 65-T-02 SHALL BE INSTALLED INITIALLY.

\* LEVEL CONTROL STATION #1  
 \*\* LEVEL CONTROL STATION #2

EQUIP. NUMBER	NAME	REFERENCE DWG. NO.	DESCRIPTION
65-D-02	SLURRY HELD TANK	900D-1896	5000 GAL. WORKING VOL. 9'-0" DIA. 9'-0" H. S.S. 304L SS
65-D-03	MAIN MIX TANK	900D-1899	3000 GAL. WORKING VOL. 9'-0" DIA. 9'-0" H. S.S. 304L SS
65-D-04	SHK TANK	900D-1867	5000 GAL. WORKING VOL. 4'-0" DIA. 9'-0" H. S.S. 304L SS
65-D-06	SLURRY PUMPS		AIR DR. DOUBLE DIAPHRAGM PUMPS
65-D-07	DIAPHRAGM PUMPS		VR MODEL, SAG-A 0-PASS/0.5" SIZE
65-H-02	SK TANK AGITATORS		15 HP. 68 RPM. 36" DIA. 2'-04" DIA. BLADES. 304L SS
65-K-04	SHK TANK AGITATOR		2 HP. 24 RPM. 24" DIA. BLADES. 304L SS
65-D-14	SEAL WATER POTS		1/2" W/RES SUPPLIED SEAL POTS
65-D-11	SLURRY PUMP		VARIABLE RUPP TRANSDUCER
65-D-13	PULSATION DAMPER		
65-T-02	SLURRY GRINDERS		1/2" W/RES 15 HP. 115 RPM. 40 GPM

ECN(S) FILED

6139

SI APERTURE CARD

Also Available On Aperture Card

CURRENT AS OF  
 OCT 14 1993  
 CHECK DOCUMENT CONTROL FOR LATEST REVISION.

FOR DRAWING INDEX SEE DRAWING NO. APPROVE VDR TO

EBASCO SERVICES INCORPORATED  
 ONE OF S. NO. 0208 7300 TOWN CENTER BOULDER CO. 80501

WEST VALLEY NUCLEAR SERVICES COMPANY, INC  
 WEST VALLEY, NEW YORK

WEST VALLEY DEMONSTRATION PROJECT

P & ID  
 COLD CHEMICAL PREPARATION AND FEED SYSTEM

DESIGNER	T.J. PIAZZA	DATE	05-28-87
DRAWN	R.A. LEVCO	DATE	05-28-87
CHECKED	R.A. LEVCO	DATE	05-28-87
PROJECT NO.	15-CV-0275	DRAWING NO.	905D-015 10
ISSUED FOR CONSTRUCTION		SCALE	AS SHOWN

9401180103-03



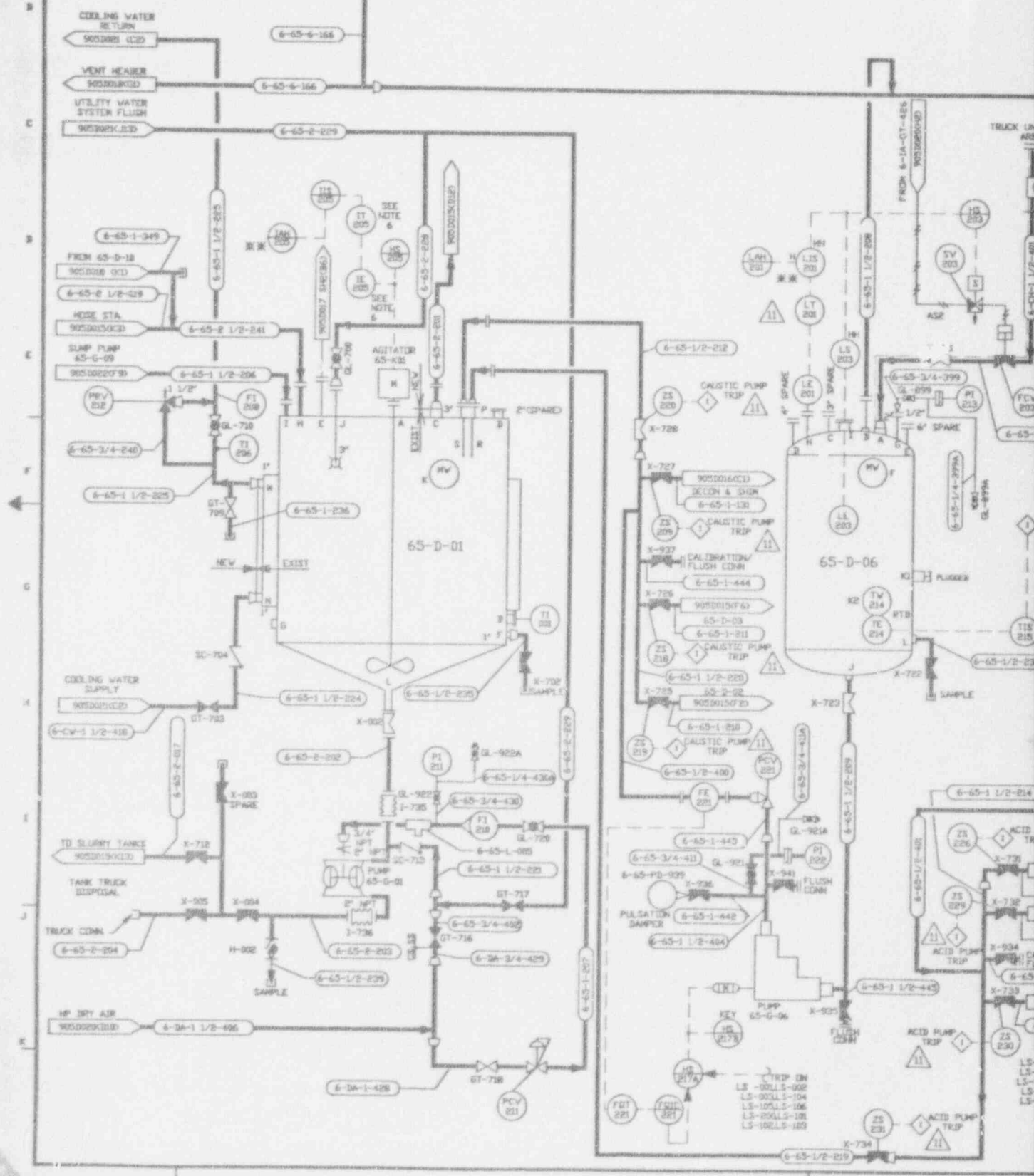


905-D-017

VENT HEADER  
9050015 (A6)

60% NITRIC ACID

NFPA IDENTIFICATION	
HEALTH HAZARD	3
FIRE HAZARD	0
REACTIVITY	0
SPECIFIC HAZARD	0





40% SODIUM HYDROXIDE

NFPA IDENTIFICATION SYSTEM  
 HEALTH HAZARD 3  
 FIRE HAZARD 0  
 REACTIVITY 1  
 SPECIFIC HAZARD N/A

NO.	DATE	REVISION	DR	CH	APPROVED
1	05-14-87		T.K.	A.J.D.	J.H. ESK
GENERAL REVISION					
2	08-14-87		T.K.	A.J.D.	E.G.S. J.H. ESK
REVISION PER EBAR 945A					
3	10-29-87		T.K.	A.J.D.	J.H. ESK
REVISION PER EBAR 945B					
4	10-3-88	ER 1468			JRH
5	11-10-88	REV'D PER ECN 2679	DAG		RD 11/14/88
6	02-01-90	REV'D PER ECN 3429	DRW	DRS	RD 4/25/90
7	7/13/90	REV'D PER ECN 3802	AVN	DRS	RD 5/27/90
8	6/6/91	REV'D PER ECN 4224	SRD	DRS	REC 6/25/91
9	1/29/92	REV'D PER ECN 4755	SRD	HAB	B.R. 10/22/92
10	10/21/92	GEN REV PER ECN 5468	SRD	HAB	ZB 10/27/92
11	11/24/92	REV'D PER ECN 5632	AAJ	DRS	B.R.
12	3/2/93	REV'D PER ECN 5974	SRD	DRS	DOB
13	3/29/93	REV'D PER ECN 6008	SRD	HAB	GGT
14	8/23/93	REV'D PER ECN 6455	J.H.	HAB	GGT
15	9/7/93	REV'D PER ECN 6656	WDX		J.H. HAB 9/21/93

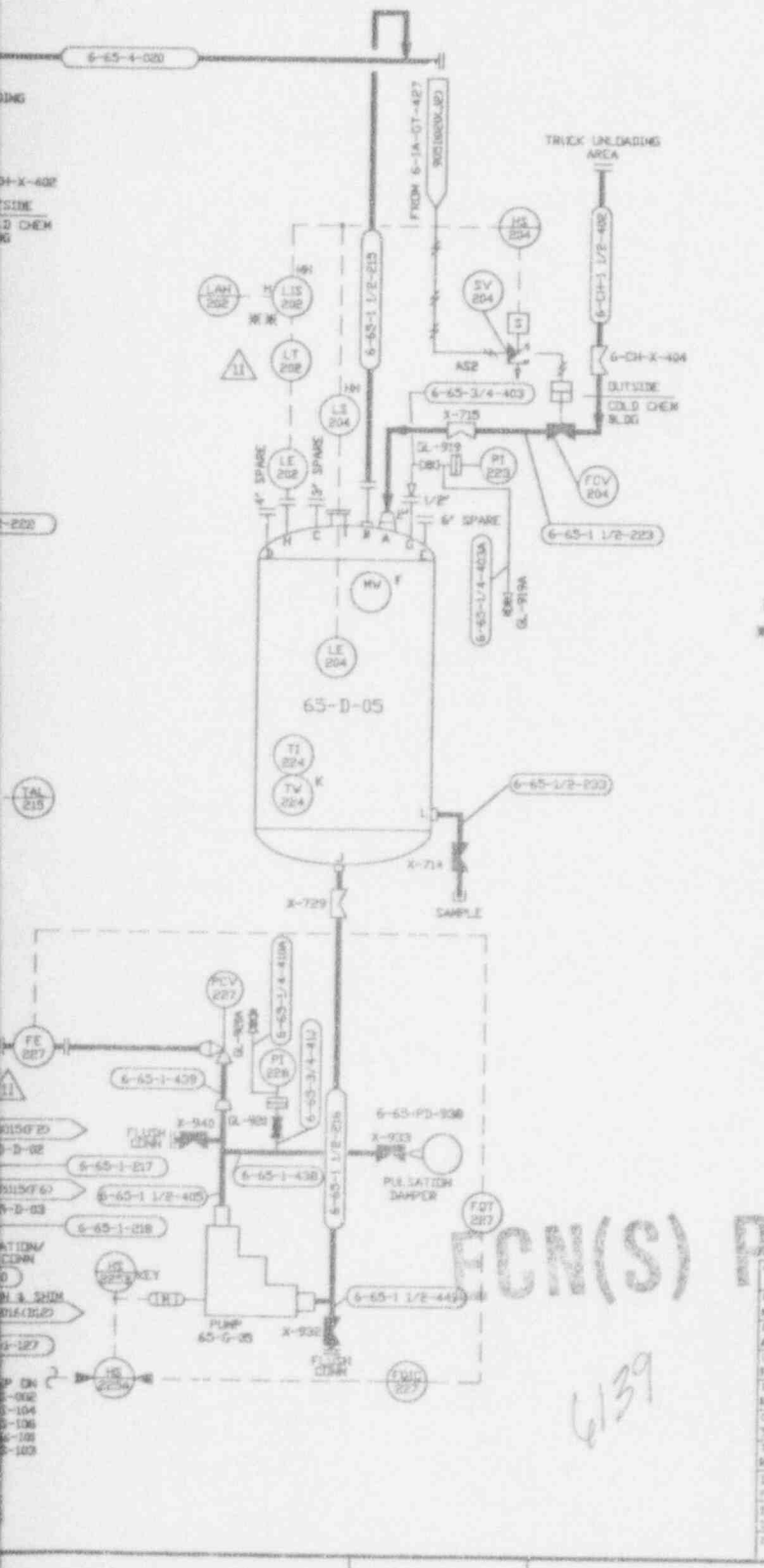
NOTES:

- FOR GENERAL NOTES SEE DWG 905-D-015.
  - EXISTING 3" PIPE CONN. NOZZLE 'C' (VENT) TO BE MODIFIED FOR ROUTING TO SCRUBBER SYSTEM.
  - ACID & CAUSTIC DISTRIBUTION PIPING IS TO BE OF WELDED CONSTRUCTION TO THE MAXIMUM EXTENT POSSIBLE.
  - ALL VALVE/SPECIALTY ITEM NUMBERS PRECEDED BY 6-65-
  - THIS ITEM IS LOCATED IN MCC.
  - EXISTING STEAM & WATER J. J. KETS TO BE UTILIZED AS IS WITH NEW UTILITY PIPING SYSTEM.
  - ALL INSTRUMENT ITEM NUMBERS ARE PRECEDED BY 65-
- ★ LEVEL CONTROL STATION #1  
 ★★ LEVEL CONTROL STATION #2

SI APERTURE CARD

Also Available On Aperture Card

EQUIPT. NO.	NAME	REF. DWG.	DESIGN PARAMETERS
65-D-01	DRAIN TANK	900D-2347	11000 GAL. CAPACITY, 11'-6" DIA. X 14'-0" S.S., 304 S/S
65-D-06	CAUSTIC DAY TANK	900D-1890	500 GAL. WORKING VOL., 4'-0" DIA. X 6'-0" S.S., 316 S/S
65-D-05	NITRIC ACID DAY TANK	900D-1899	1500 GAL. WORKING VOL., 6'-0" DIA. X 7'-6" S.S., 304L S/S
65-G-03	NITRIC ACID TRANSFER PUMP	---	ELECT. DRIVEN METERING PUMP, 400 GPM MAX. METRYAL ENH-20-0711 -1400K, 316 SS & TEF/ION, 100 PSIG MAX. 1 1/2" HP
65-G-06	CAUSTIC TRANSFER PUMP	---	ELECT. DRIVEN METERING PUMP, 315 GPM MAX. METRYAL ENH-20-0711 -900K, 316 SS & TEF/ION, 100 PSIG MAX. 1 1/2" HP
65-G-01	DRAIN PUMP	900-D-970	AIR-OP. VR. DOUBLE DIAPHRAGM, HUSSEL SARAD-140 GPM, 2" SIZE
65-K-01	DRAIN TANK AGITATOR	900-D-970	7.5 HP, 1750 RPM, 450/3/60 MOTOR, GEARED DOWN TO 54 RPM, 3 BLADE



ECN(S) PENDING

WEST VALLEY NUCLEAR SERVICES INCORPORATED

PROJECT NO. 905D-017

DESIGNER: M. S. VINCIGUERRA

CHECKED: R. J. LEVY

DATE: 03-28-87

SCALE: 1/8" = 1'-0"

PROJECT NO. 905D-017

REVISION NO. 11

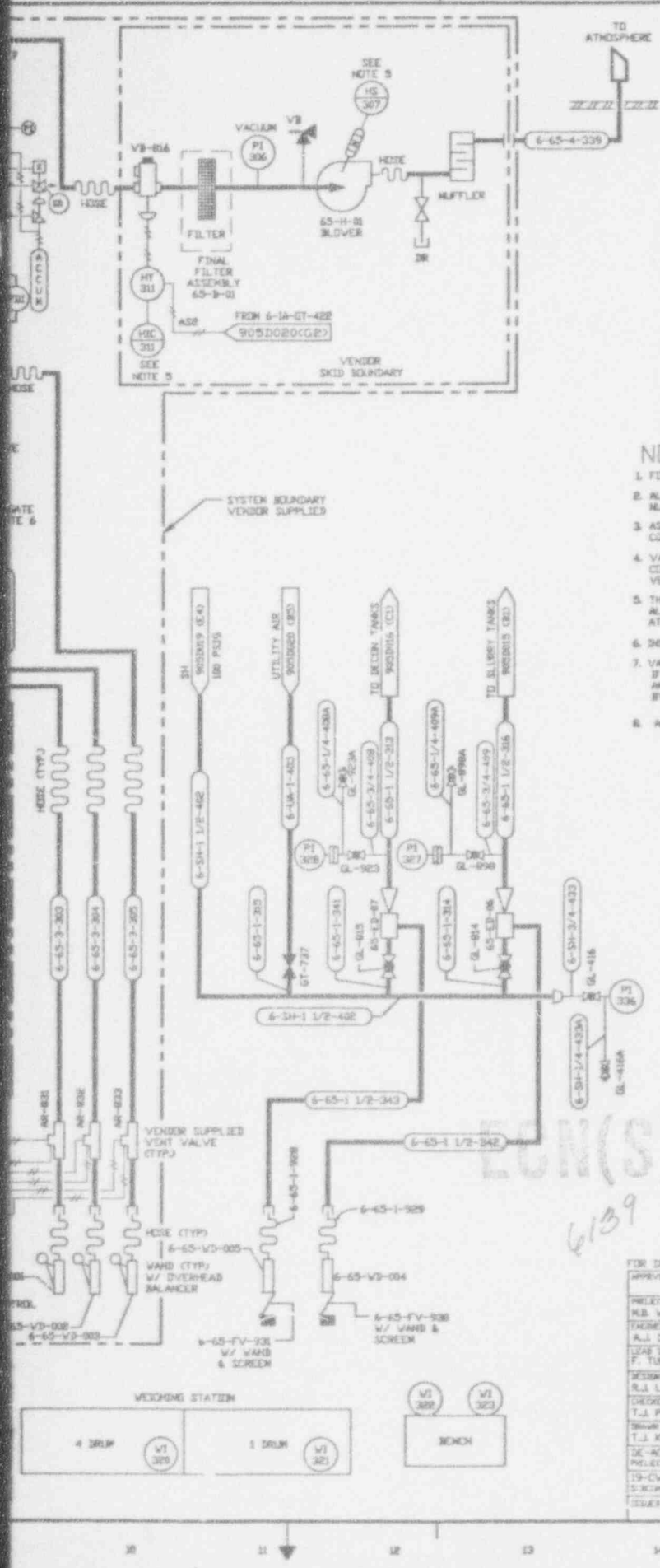
CURRENT AS OF

OCT 14 1993

CHECK DOCUMENT CONTROL FOR LATEST REVISION.

9401180105-07





NO.	DATE	REVISION	BY	CHK	APPROVED
B	05-14-87		TJK	ADJ	R.L. A.J.D. KDV
GENERAL REVISION					
C	08-14-87		TJK	ADJ	E.L.S. A.J.D. KDV
REVISION PER EBAR 245A					
D	10-27-87		TJK	JV	R.L. A.J.B. KDV
REVISION PER EBAR 945B					
D	10-03-88	ER468			JRH
1	11-10-88	REV'D PER ECR 2679	DAS		RD 11-14-88
2	01-01-90	REV'D FOR ECR 3429	DRV	DRS	RE 4/25/90
3	7/16/90	REV'D PER ECR 3802	AVN	DRS	RD 5/27/90
4	6/6/91	REV'D PER ECR 4024	SRD	DRS	REC 6/25/91
5	7/16/91	REV'D PER ECR 4398	AVN	HAB	J.R.
6	3/3/93	REV'D PER ECR 5974	SRD	DRS	DDO
7	4/15/93	REV'D PER ECR 6205	DAK	HAB	ZB
8	9/3/93	REV'D PER ECR 6656	VCR		J.D.D. 9/16/93 J.D.D. 9/16/93

**NOTES:**

- FOR GENERAL NOTES SEE DWG. 905-D-015.
- ALL VALVE/SPECIALTY ITEM NUMBERS PRECEDED BY 6-45--.
- AS4-100 PSIG DRY UTILITY AIR CONTINUED FROM 905D-008.
- VACUUM CONVEYING AND VESSEL VENT SYSTEMS ARE CONCEPTUALLY PORTRAYED. DETAIL DESIGN IS BY VENDOR IN ACCORDANCE WITH THIS DRAWING.
- THIS ITEM IS LOCATED ON VENDOR PROVIDED PANEL. ALL OTHER PANEL MOUNTED INSTRUMENTS ARE LOCATED AT THE CELL'S CHEMICAL SYSTEM CONTROL STATION.
- INSTALL KNIFE GATE AS CLOSE AS POSSIBLE TO TANK NOZZLE.
- VACUUM LINE ELBOWS SHALL HAVE A 48" RADIUS. IF FIELD CONDITIONS PREVENT USAGE, PVC HOSE MADE OF FDA AND USDA APPROVED INGREDIENTS, FOOD GRADE, STATIC-CONDUCTIVE BY EMBEDDED COPPER STRAND WIRE, CAN BE SUBSTITUTED.
- ALL INSTRUMENT ITEM NUMBERS ARE PRECEDED BY 65--.

EQUIPT. NUMBER	EQUIPT. NAME	REF. DWG. NUMBER	DESCRIPTION
65-V-92	FILL HOPPER	---	10 CU. FT.
65-V-93	FILL HOPPER	---	10 CU. FT.
65-V-94	FILL HOPPER	---	10 CU. FT.
65-H-01	VACUUM PUMP	---	ROTARY LOBE,
65-G-10	SCRUB SOL. TANK RECIRC. PUMP	---	CENTRIFUGAL TYPE, 25 GPM, 304 SS.
65-G-11	SCRUB SOL. TANK RECIRC. PUMP	---	CENTRIFUGAL TYPE, 25 GPM, 304 SS.
65-D-10	SCRUB SOL. TANK	---	100 GAL. VOLUME, 304 SS.
65-ED-01	VAC. GEN. & SCRUBBER	---	8" INLET & OUTLET, MAX. 8" NEG. VACUUM TOTAL.
65-ED-06	LIQUID EDUCTOR	---	1 1/2" SUCTION/RECHARGE, 1" PRESS. CORNL. 480 PPM STEAM MAX.
65-B-01	FILTER ASSEMBLY	---	MANUFACTURERS STD.

SI APERTURE CARD

Also Available On Aperture Card

CAUTION  
CURRENT AS OF:

001 1 4 '83

CHECK DOCUMENT CONTROL FOR LATEST REVISION.

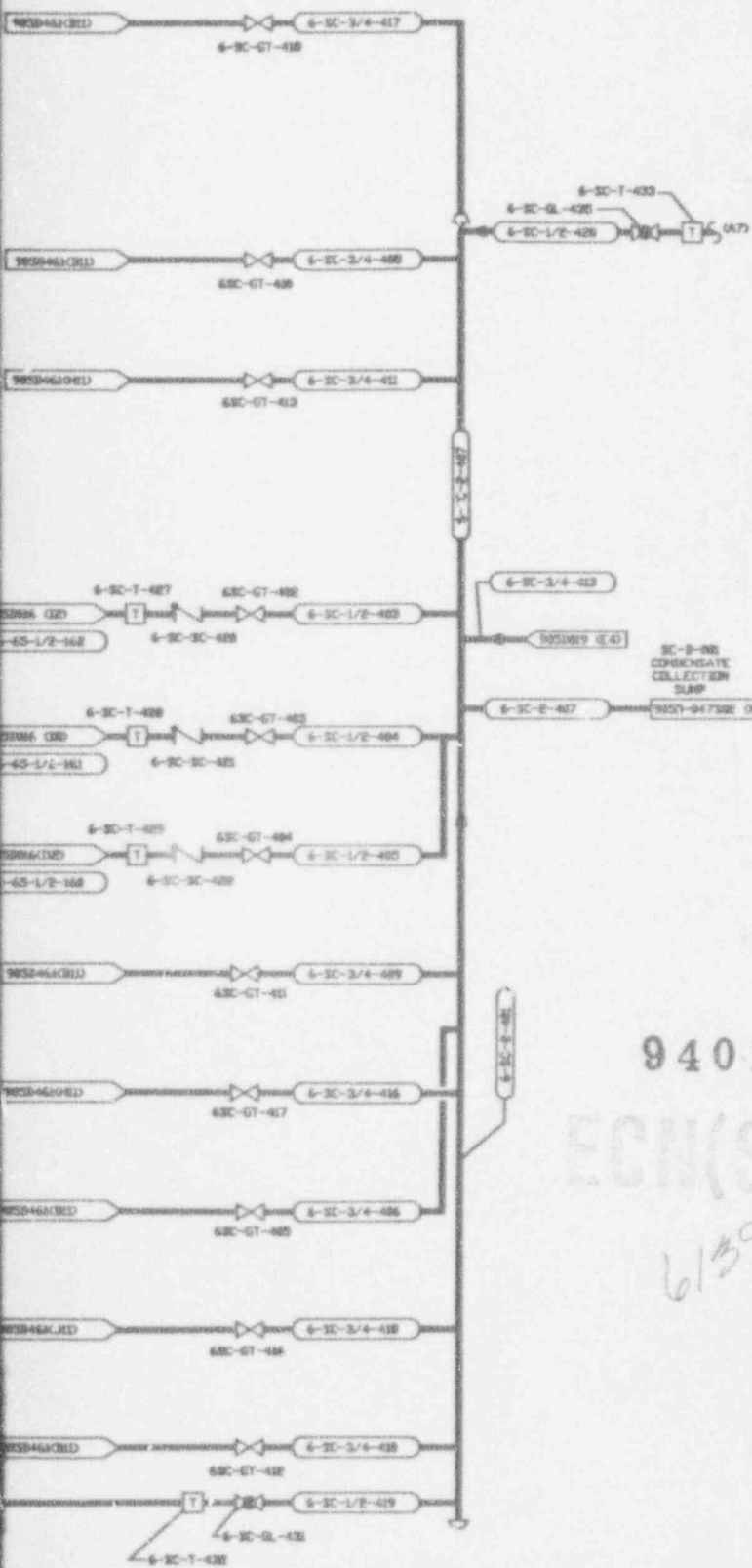
ECON(S) PENDING

6139

APPROVE WORK CO.	EBASCO SERVICES INCORPORATED	
PROJECT MGR.	3-31-87	FOR TANK ORDER
ENGINEER SUPERVISOR	3-31-87	
DESIGN	3-31-87	
CHECKER	3-31-87	
DRAWN	3-31-87	
DATE	3-31-87	
PROJECT NO.	19-CWV-02275	DRAWING NO. 905D-018-8
SCALE	NONE	A/S SHEET NO. 905-D-018-8

9401180105-08





NO.	DATE	REVISION	BY	CHK	APPROVER
B	6-19-67		TJK	R.A.	R.A. FSK HBY
GENERAL REVISION					
C	08-14-67		TJK	EDS	EDS FSK HBY
REVISION PER ECR 3459					
B	08-29-67		TJK	JV	R.A. FSK HBY
REVISION PER ECR 3459					
C	08-3-68	CR 14.26			JRH
1	0-10-68	REV'S PER ECR 3575	AS		RS 11/14/68
2	08-20-70	REV'S PER ECR 3421	AV	IRS	RD 4/20/70
3	7/13/70	REV'S PER ECR 3682	AVH	IRS	ZS 5/27/70
4	3/3/72	REV'S PER ECR 3974	SRD	SRD	SRD 5/18/72
5	9/26/73	REV'S PER ECR 6763	LAK	HAJ	

**NOTES**

- FOR GENERAL NOTES SEE DWG 905-D-015.
- TRAPS ARE TO BE SUPPLIED WITH INTEGRAL STRAINERS.

**REFERENCE DRAWINGS**

- COLD CHEMICAL PREP. 905-D-015
- AND FEED SYSTEM PUMPS 905-D-016
- 905-D-017
- 905-D-018

SI  
APERTURE  
CARD

Also Available On  
Aperture Card

9401180105-09

ECH(S) PENDING

6139

FOR DRAWING INDEX SEE DRAWING NO.

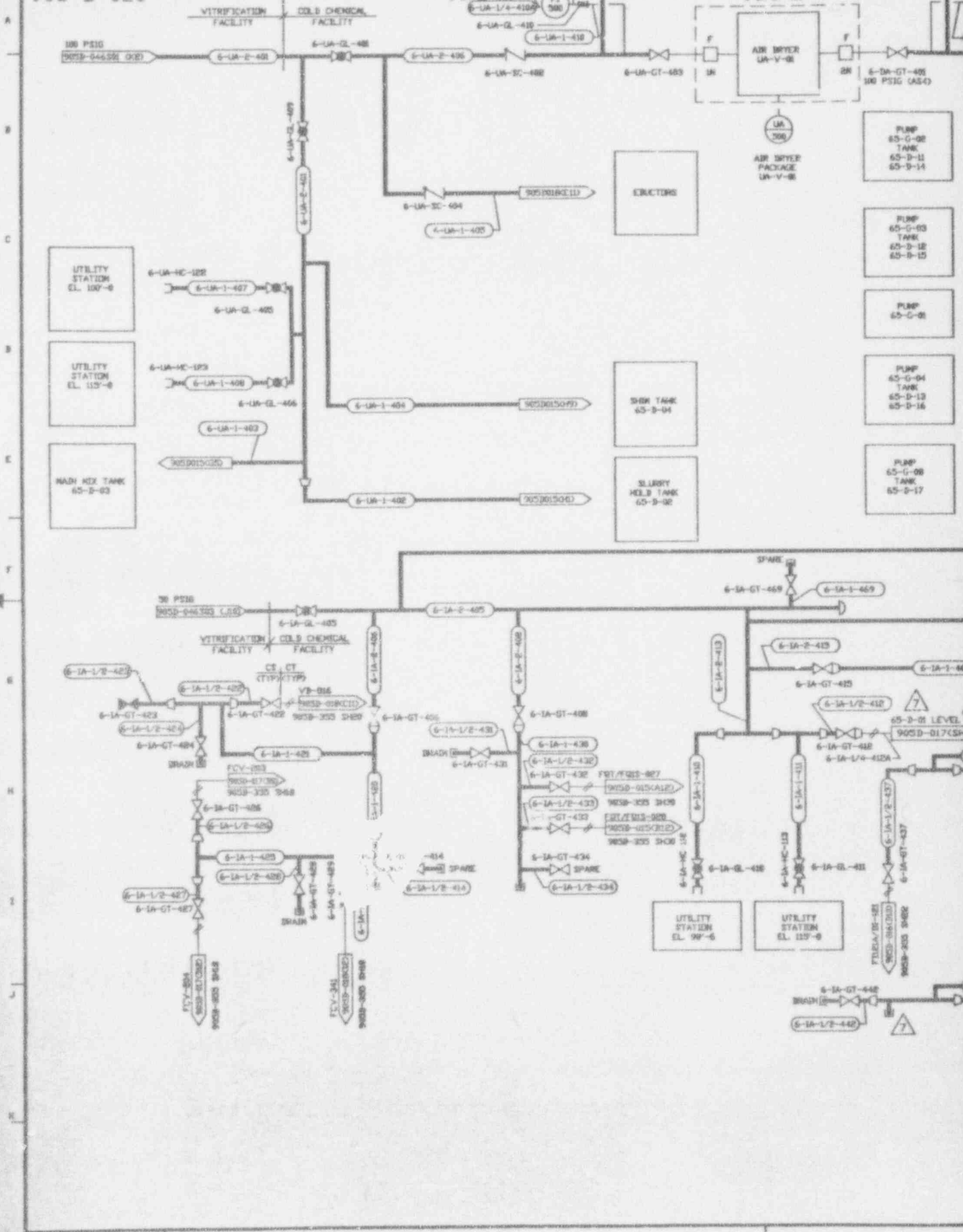
APRUS VVNS CO.		Ebasco Services Incorporated	
PROJECT NO.	DATE	A/C OF S. NO.	TASK ORDER NO.
94-16-07	04-16-67		
WEST VALLEY NUCLEAR SERVICES COMPANY, INC.		WEST VALLEY, NEW YORK	
WEST VALLEY DEMONSTRATION PROJECT			
P & ID			
COLD CHEMICAL			
STEAM & CONDENSATE SYSTEM			
PROJECT NO.	ISSUE CODE NUMBER	DRAWING NO.	REV.
94-16-07		905D-019	5
ISSUED FOR CONSTRUCTION		SPEC CODES	A/C SHEET NO.
			905-D-019

CAUTION - Do not revise this original. CURRENT AS OF

6/11/73

CHECK DOCUMENT CONTROL FOR LATEST REVISION.

905-D-020









NO.	DATE	REVISION	BY	CHK	APPROVED
B	06-19-87		T.K.	R.A.	R.A. / FSK / HWV
GENERAL REVISION					
C	08-14-87		T.K.	EGS	EGS / FSK / HWV
REVISION FOR EBAR 1988					
B	08-29-87		T.K.	JV	R.A. / HWV
REVISION FOR EBAR 1988					
B	08-03-88	DR 1468			JWH
1	01-01-88	REV'S PER EDR 2579	DAS		RD 01/14/88
2	08-05-90	REV'S PER EDR 3429	BRV	BRV	BR 4/25/90
3	7/16/90	REV'S PER EDR 3888	AVM	BRV	BR 5/27/90
4	4/16/91	REV'S PER EDR 4284	SRD	LRS	REC 6/25/91
5	02/17/91	REV'S PER EDR 4490	SRD	HAB	SJR
6	2/27/91	REV'S PER EDR 4983	CGR	HAB	SJR
7	3/3/93	REV'S PER EDR 5974	SRD	BRV	BRV 3/9/93
8	5/26/93	REV'S PER EDR 6782	LRK	RS	HAI

1. FOR GENERAL NOTES SEE DWG 905-D-Y.

SI  
APERTURE  
CARD

Also Available On  
Aperture Card

CAUTION

CURRENT AS OF

OCT 14 '93

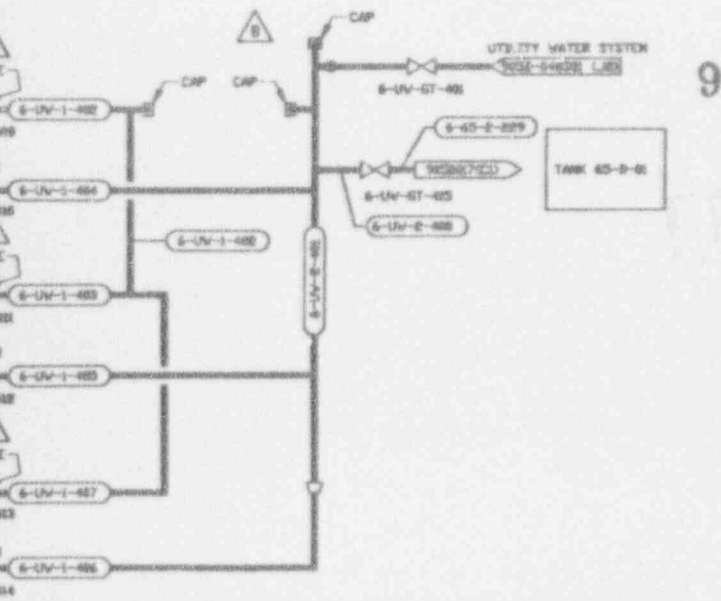
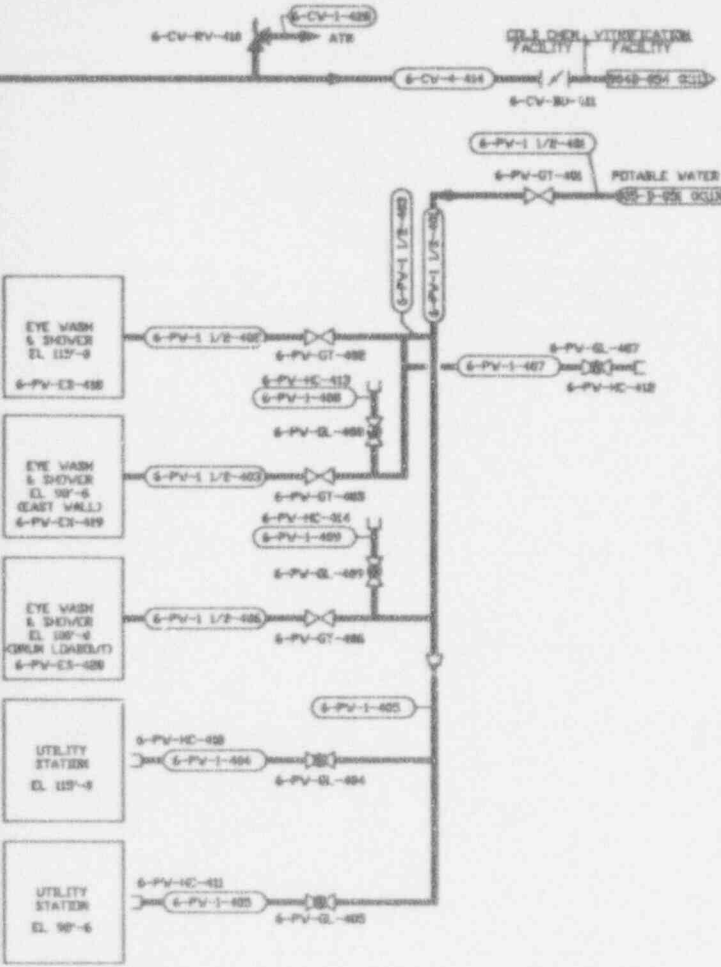
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FOR LATEST REVISION

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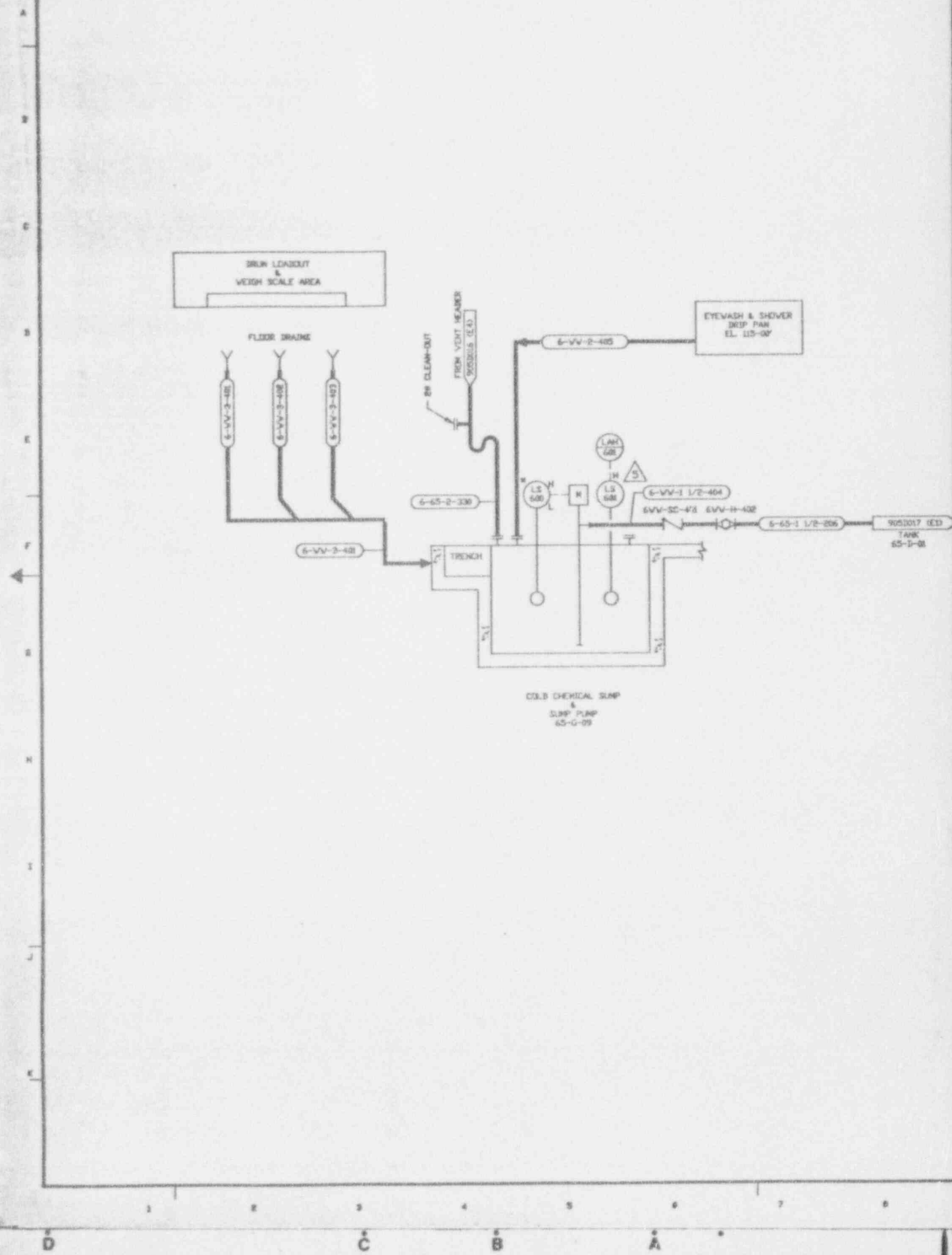
(THIS) PENDING  
6139

CAD DRAWING - Do not revise this original.

FOR DRAWING INDEX SEE DRAWING NO.		EPASCO SERVICES INCORPORATED	
PROJECT NO.	04-00-07	DATE OF S. NO. 2388	FOR TASK ORDER 228
DESIGNED BY	R.D. WENDT	WEST VALLEY NUCLEAR SERVICES COMPANY, INC	
CHECKED BY	F.S. KOVALCZYK	WEST VALLEY, NEW YORK	
DATE	04-00-07	WEST VALLEY DEMONSTRATION PROJECT	
DESIGNED BY	R.J. LEVAD	P & ID	
CHECKED BY	T.J. PIAZZA	COLD CHEMICAL	
DATE	04-00-07	WATER SYSTEMS	
DESIGNED BY	R.J. LEVAD	REV.	
PROJECT NO.	19-CV-02275	905D-021 8	
SUBCONTRACT NO.		REV.	
ISSUED FOR CONSTRUCTION	SCALE: NONE	SPEL CODES	



905-D-022 C



NO.	DATE	REVISION	DR	CH	APPROVED
B	8-16-87		T.K.	R.L.	F.S.L. HDV
GENERAL REVISION					
C	11-16-87		T.K.	R.L.	F.S.L. HDV
REVISION PER EBAR 949A					
D	10-03-88	ER 1458			JRH
1	11-11-88	REV'D PER EDN 2579	DAS		RD 11/14/88
2	02-28-90	REV'D PER EDN 3383	CV		DJR
3	04-20-90	REV'D PER EDN 3429	DRV		RD
4	06/06/91	REV'D PER EDN 4224	DRD	DRS	NEC 6/21/91
5	09/03/93	REV'D PER EDN 6656	VCK	MD	J.D.J. 9/16/93 C.P. 9/16/93

NOTES:

- FOR GENERAL NOTES SEE DRAWING 905D-015
- DENOTES PART OF EQUIP. PACKAGE.

SI  
APERTURE  
CARD

Also Available On  
Aperture Card

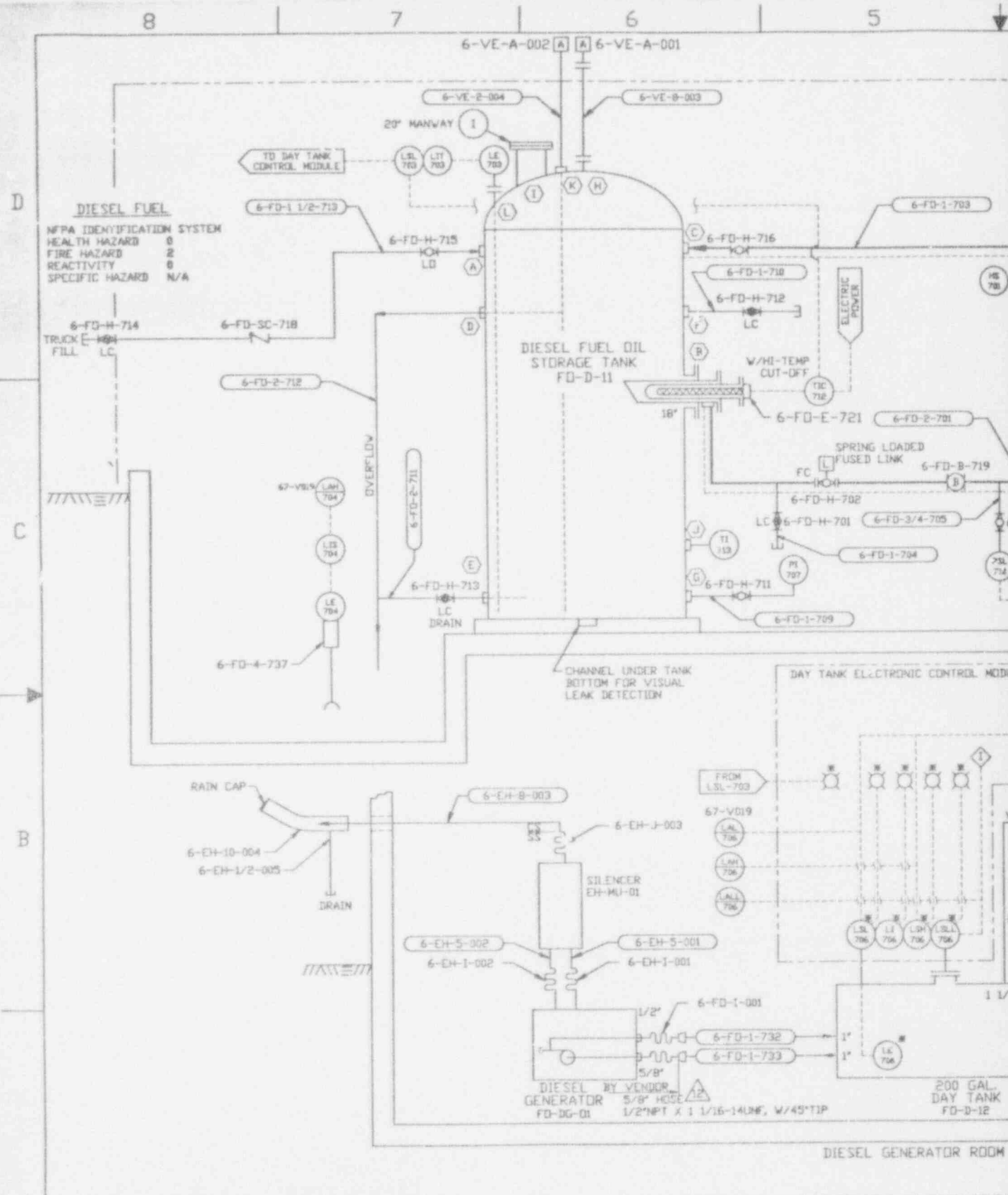
CAUTION  
CURRENT AS OF

OCT 14 1993

CHECK DOCUMENT CONTROL  
FOR LATEST REVISION

6139  
940F180105-12

APPROVING ENGINEER		EBCASO SERVICES INCORPORATED	
PROJECT NO.	04-16-87	A/E D.F.S. NO. 208	FOR TASK ORDER 302
ENGINEER	F.S. KOWALCZYK	WEST VALLEY NUCLEAR SERVICES COMPANY, INC WEST VALLEY, NEW YORK	
LEAD DES. ENGR.	F.S. KOWALCZYK		
DESIGNER	R.J. LEVRO	WEST VALLEY DEMONSTRATION PROJECT	
CHECKER	T.J. PIAZZA	P & ID COLD CHEMICAL SYSTEM ACID & CAUSTIC SYSTEMS	
DATE	04-16-87		
PROJECT NO.	04-16-87	SIZE	D
19-CVY-02275		INDEX CODE NUMBER	
SUBCONTRACT NO.		AREA OR TYP. CO. ORIS	
ISSUED FOR CONSTRUCTION		DRAWING NO.	905D-022
		REV.	5
		SCALE	AS SHOWN
		SPEC. CODES	
		A/E SHEET NO.	940-5-022 c



**DIESEL FUEL**  
 NFPA IDENTIFICATION SYSTEM  
 HEALTH HAZARD 0  
 FIRE HAZARD 2  
 REACTIVITY 0  
 SPECIFIC HAZARD N/A

TRUCK FILL LC  
 6-FD-H-714

DIESEL FUEL OIL STORAGE TANK  
 FD-D-11

CHANNEL UNDER TANK BOTTOM FOR VISUAL LEAK DETECTION

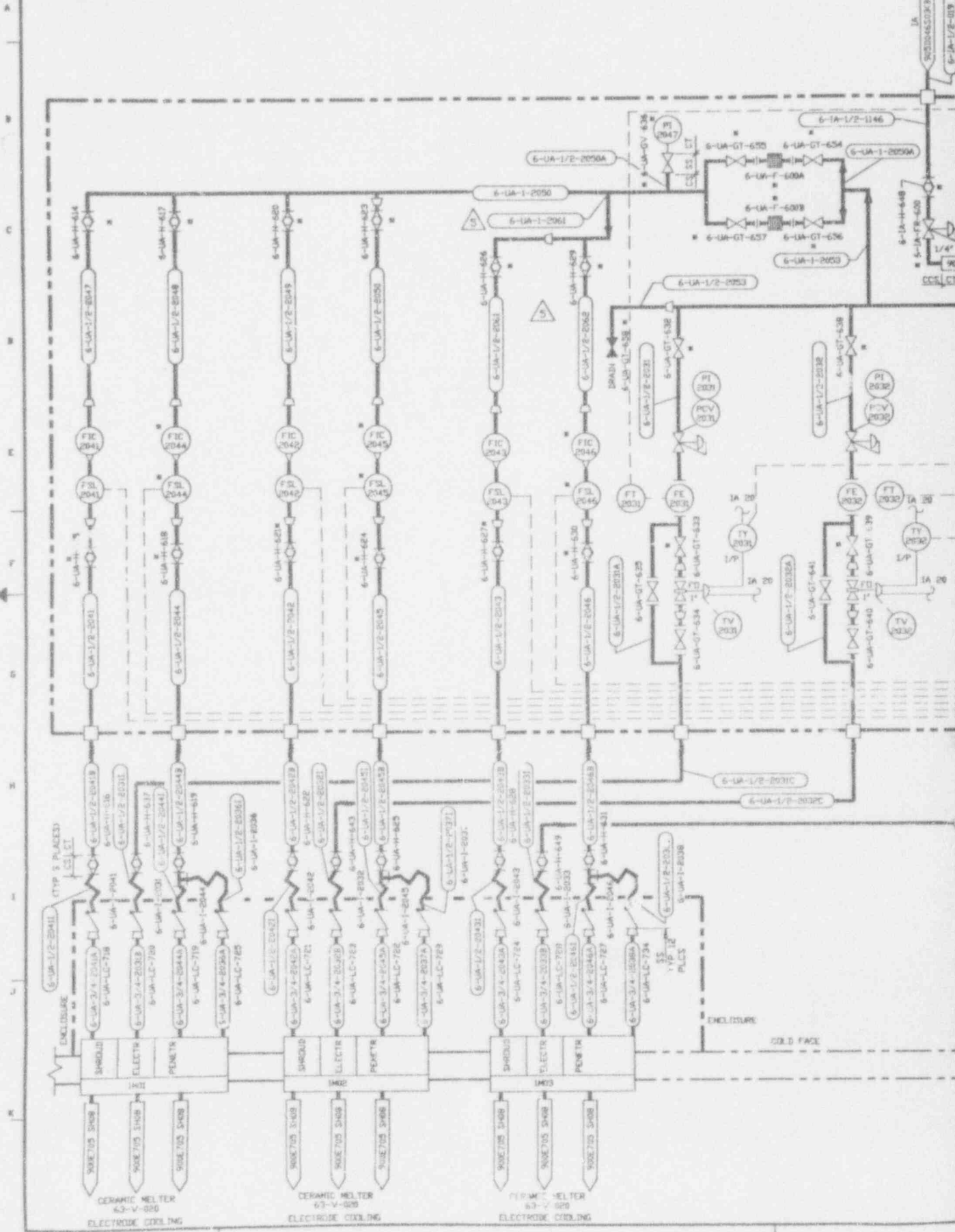
DIESEL BY VENDOR  
 GENERATOR FD-DG-01  
 5/8" HOSE  
 1/2" NPT X 1 1/16-14 UNF, W/45° TIP

200 GAL. DAY TANK  
 FD-D-12

REVISING

NO.	DESCRIPTION	DATE
1	ISSUE	10/27/90
2	REVISED PER DESIGN	11/14/90
3	REVISED PER DESIGN	11/14/90
4	REVISED PER DESIGN	11/14/90
5	REVISED PER DESIGN	11/14/90
6	REVISED PER DESIGN	11/14/90
7	REVISED PER DESIGN	11/14/90
8	REVISED PER DESIGN	11/14/90
9	REVISED PER DESIGN	11/14/90
10	REVISED PER DESIGN	11/14/90
11	REVISED PER DESIGN	11/14/90
12	REVISED PER DESIGN	11/14/90





6-UR-1/2-2041

6-UR-3/4-2041A

6-UR-LC-728

6-UR-1-2041B

6-UR-LC-728

6-UR-1-2041C

6-UR-1-2041D

6-UR-1-2041E

6-UR-1-2041F

6-UR-1-2041G

6-UR-1-2041H

6-UR-1-2041I

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6-UR-1-2041L

6-UR-1-2041M

6-UR-1-2041N

6-UR-1-2041O

6-UR-1-2042

6-UR-3/4-2042A

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6-UR-LC-721

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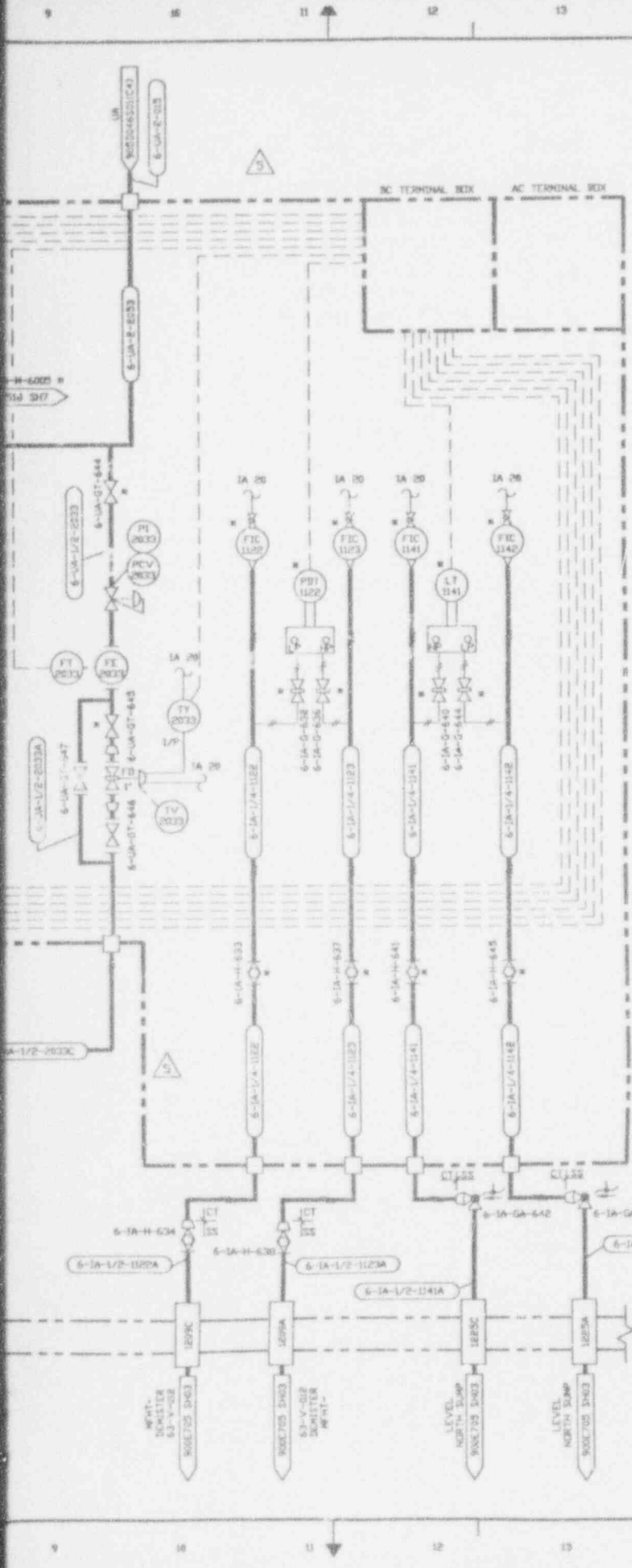
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6-UR-3/4-2056A

6-UR-LC-749

6-UR-1-2056B



NO.	DATE	REVISIONS	DR	CH	APPROVED
2	02-02-88		TJK	R.A.	H.K. SH A.J.D. KIV
REVISIONS PER EBAR 1075A					
0	06-15-88		TJK	R.A.	H.K. SH A.J.D. KIV
GENERAL REVISIONS INCLUDING TA 767					
9	10-31-88		P.J.S.		
GENERAL REVISIONS INCLUDING TA 821					
0	06-12-89	ER 1631			JRH
1	01-17-90	ECN 3359	DRV	PAN	NEC
2	7/9/91	REV PER ECN 4341	AVN	HAB	DJR
3	12/23/91	REV PER ECN 4674	DAK	HAB	DJR
4	2/26/92	REV PER ECN 4778	AAJ	HAB	DJR
5	9/03/93	REV PER ECN 4645	J.H.	AB	AB

- NOTES:
- NEW INSTRUMENTS & VALVES TO BE INSTALLED ON THIS EXISTING RACK ARE MARKED WITH SINGLE ASTERISK (\*).
  - IA 20 AIR SERVICE FROM MANFOLD 6-IA-M-6005. SEE DRAWING 9008-251B SH7.

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CAUTION  
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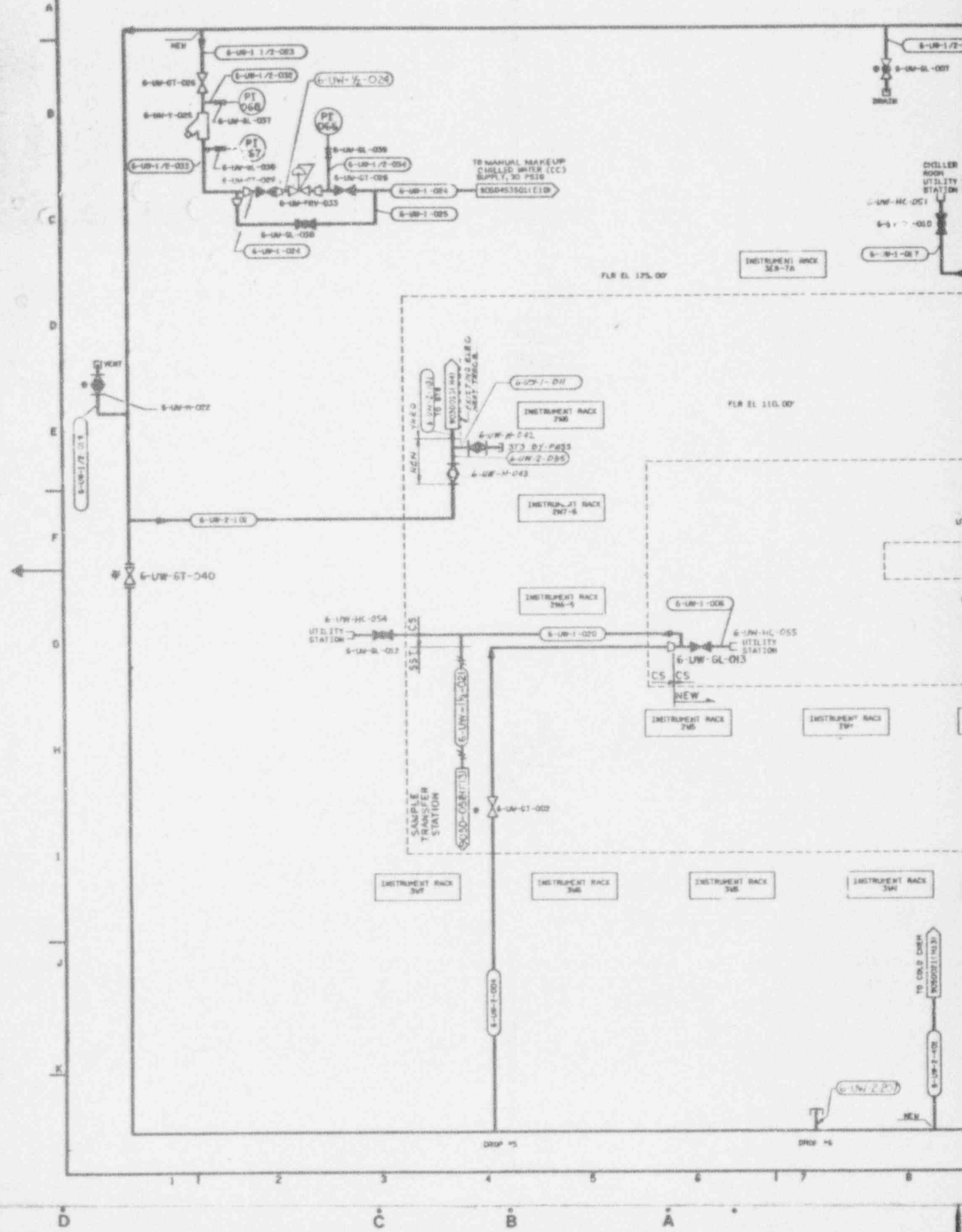
FOR DRAWING INDEX SEE DRAWING NO.		EBASCO SERVICES INCORPORATED	
PROJECT NO.	REV. OF S. NO. 2308	T-20 T-20 INCH 005	
DESIGNED BY R.B. WEINGART 11/20/87	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK		
ENGINEER A.J. BUELL (P) 11/20/87	WEST VALLEY DEMONSTRATION PROJECT		
CHECKED BY S. NATH 11/20/87	P & ID		
SCALE	VITRIFICATION FACILITY		
DATE A. ZILG 11/20/87	INSTRUMENT RACK 2N7-6		
BY M. KUSHAKHANI 11/20/87	DRAWN T.J. KITZ 11/20/87		
NO. AC07-BUME44139	SHEET NO.	DRAWING NO.	REV.
19-CIV-02275	D	905D-045	5
ISSUED FOR CONSTRUCTION	SCALE	SPEC. CODES	A-1 SHEET NO.
	NONE		905D-045 503 0





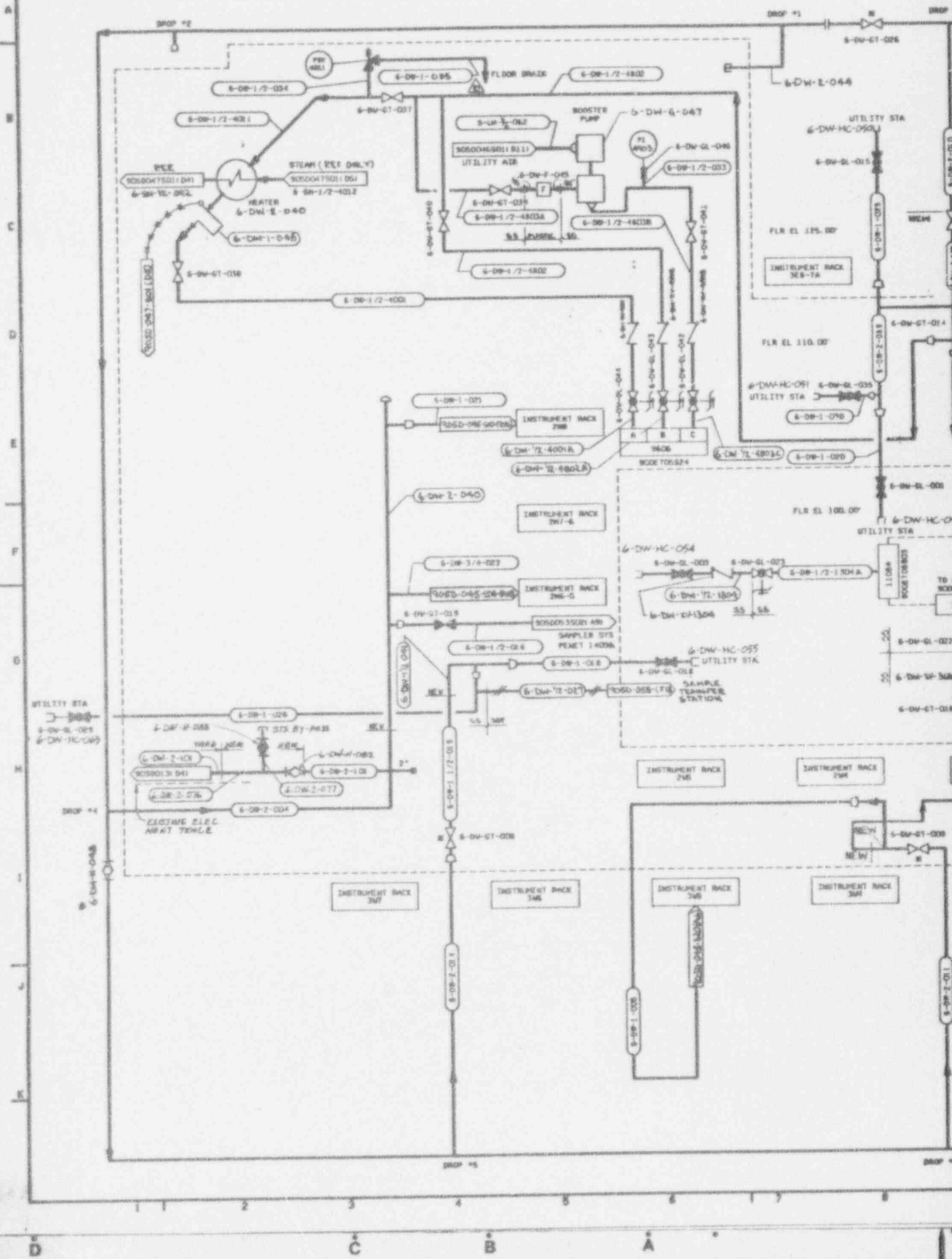


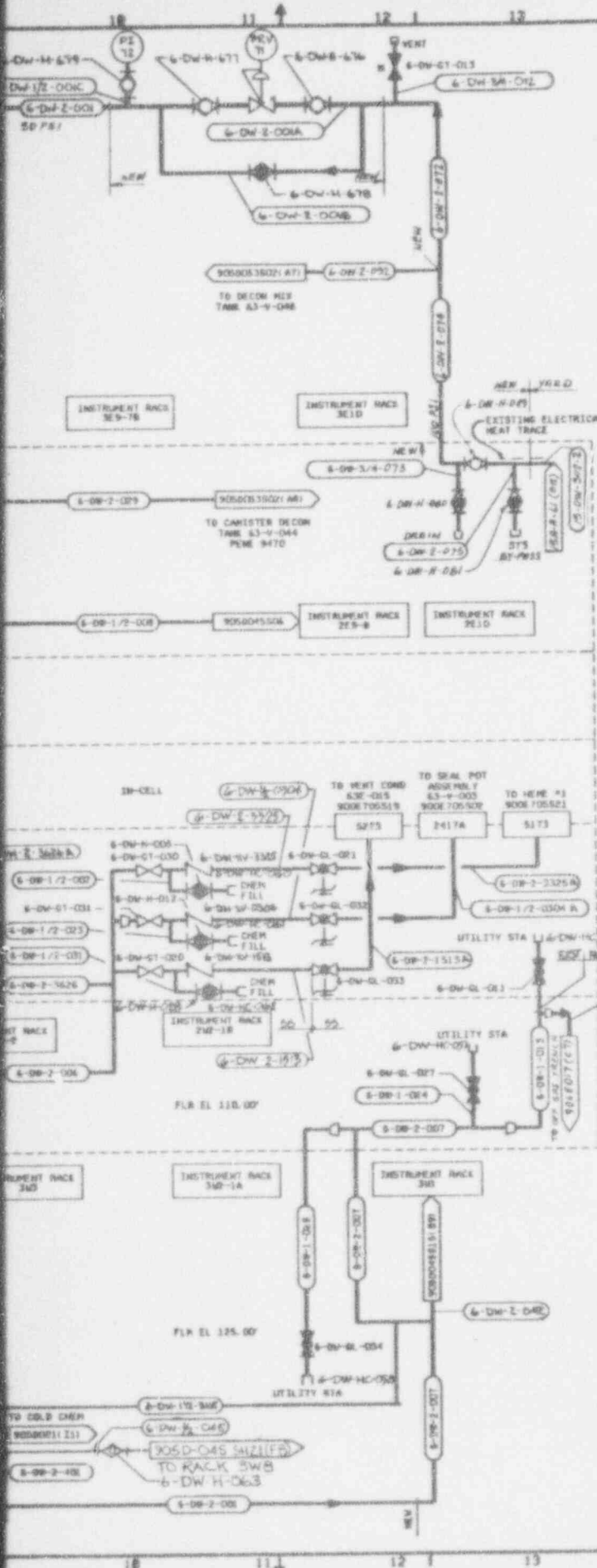
905-D-048 S01





905-D-048 S02





NO.	DATE	REVISION	DR	CH	APPROVED
8	06-23-84		BPZ	R/L	
GENERAL REVISION					
9	0-28-89		ALZ	UNK	
GENERAL REVISION					
0	7/1/89	ER 1/2 4/8			
9	3-9-93	REV PER ECH 5986	SAC	PS	
10	7-21-93	REV PER ECH 6516	PD	AS	
3	6-8-90	GEN REV PER ECH 3602	CM	R.K.	
4	7-18-90	REV PER ECH 3777	CM	HAB	
5	1-30-91	REV PER ECH 4102	REB	HAB	
6	3/27/91	REV PER ECH 4197	FLH	HAB	
7	7-24-92	REV PER ECH 5259	FLH	ES	
13	1-8-93	REV PER ECH 5551	CM	PS	

REFERENCE DRAWINGS:

- SYMBOLS, NOTES & LEGEND 900-0-1306
- SYMBOLS, NOTES & LEGEND 900-0-1307
- SYMBOLS, NOTES & LEGEND 900-0-1308

NOTES:

- THIS DWG. SUPERSEDES 900-0-1106.
- A SINGLE ASTERISK (\*) INDICATES EXISTING VALVES AND EQUIPMENT TO BE RETAINED.

SI APERTURE CARD

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9401180105-17

CAUTION  
CURRENT AS OF

OCT 14 '93

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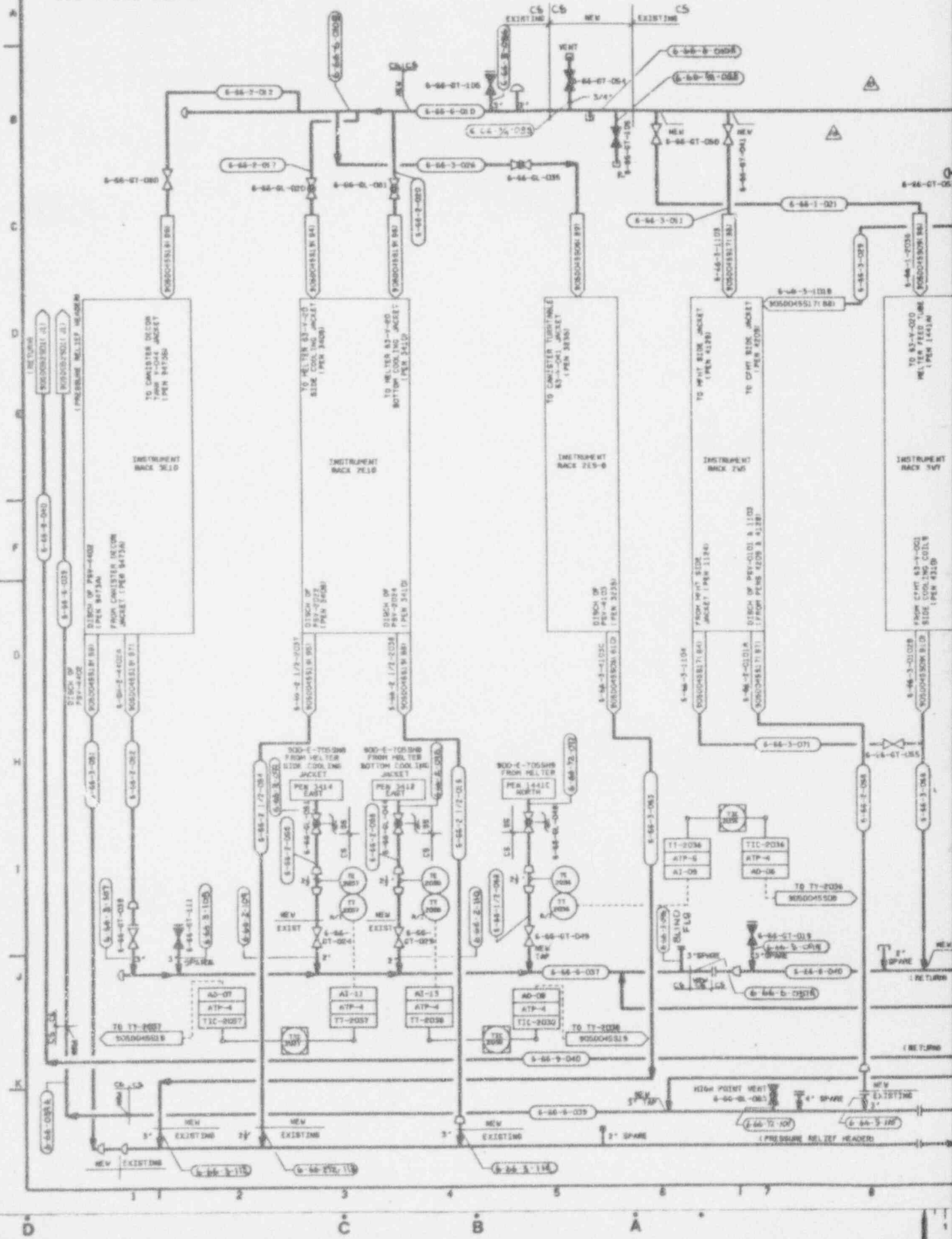
WVNS APPROVAL

COX. SUP.	<i>[Signature]</i>
LOC. ENGR.	<i>[Signature]</i>
DRFT. SUP.	<i>[Signature]</i>
D.A. MGR.	<i>[Signature]</i>
RES. MGR.	<i>[Signature]</i>

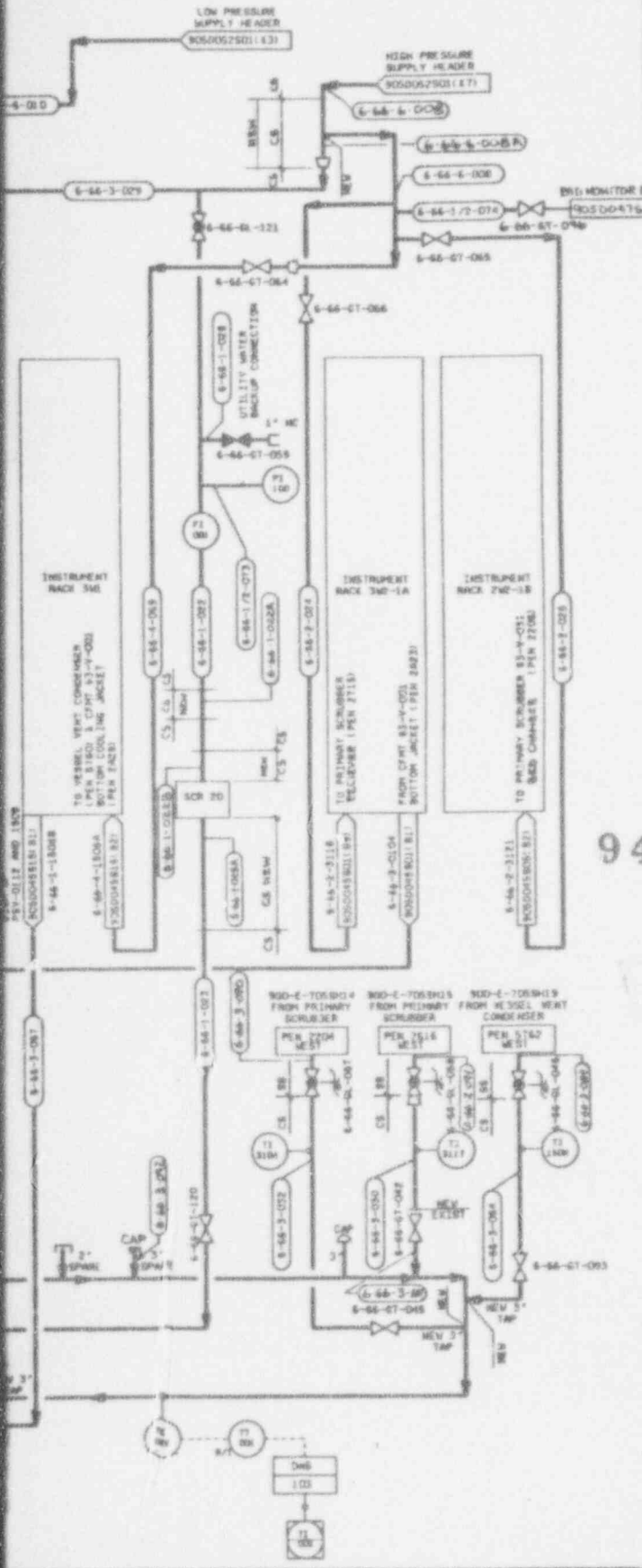
FOR DRAWING INDEX SEE DRAWING NO.

APPROV. WNS CD.	EBASCO SERVICES INCORPORATED
PROJECT MGR.	A/E C.P.S. NO. 238A
DESIGNED BY	WEST VALLEY NUCLEAR SERVICES COMPANY, INC.
CHECKED BY	WEST VALLEY, NEW YORK
DRAWN BY	WEST VALLEY DEMONSTRATION PROJECT
DATE	P & ID
	VITRIFICATION FACILITY
	DEMINERALIZED WATER SYSTEM
PROJECT NO.	905-D-048
DRAWING NO.	10
SCALE	AS SHOWN

905-D-052 S02 B



NO.	DATE	REVISION	DR	CH	APPROVED
8	2-28-92		FJT	SAC	W/L E. 15
GENERAL REVISION					
0	7/1/69	REV. 12620			
7	12-29-92	REV PER ECN 5727	DRD	W/L	
6	1-8-95	REV PER ECN 5551	GM	W/L	
9	4-16-93	REV PER ECN 6201	PD	W/L	HAJ
10	5-25-93	REV/ECN 6842	W/S	DRS	JAY
5	1-15-92	ECN 4647	PD	DRS	BJR
6	7-16-92	ECN 5362	W/S	DRS	W/L



NOTES  
1. FOR NOTES SEE 905-0-052 SH 1.

SI  
APERTURE  
CARD  
  
Also Available On  
Aperture Card

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6250

CAUTION  
CURRENT AS OF  
OCT 14 1993  
CHECK DOCUMENT CONTROL  
FOR LATEST REVISION

WVNS APPROVAL

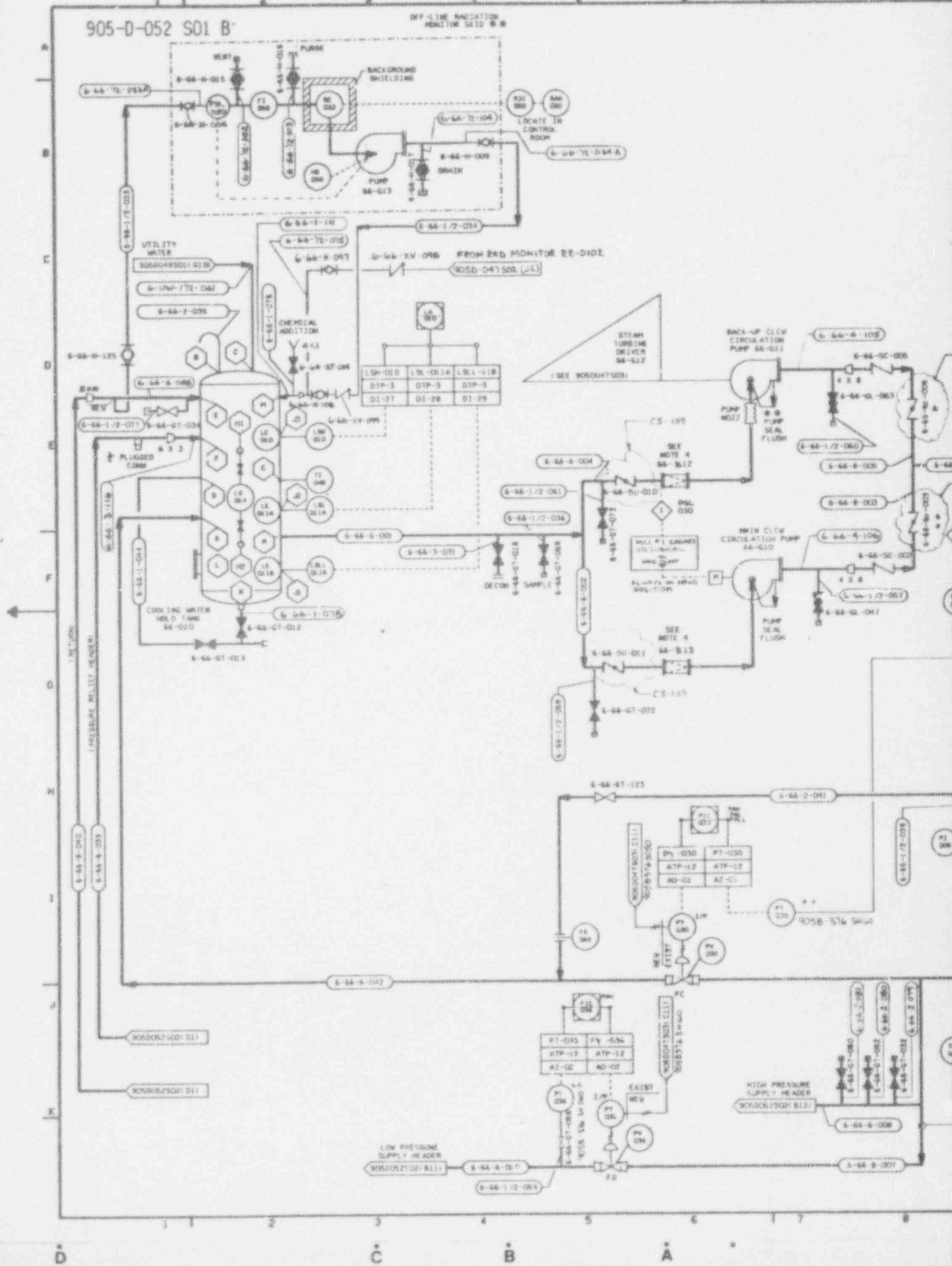
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CCG. ENGR.	<i>[Signature]</i>
DRFT. SUPV.	<i>[Signature]</i>
G.A. MGR.	<i>[Signature]</i>
RAS. MGR.	<i>[Signature]</i>

FOR DRAWING INDEX SEE DRAWING NO.

APPROV. WVNS CO.	EBASCO SERVICES INCORPORATED
PROJECT NO.	W/V D.P.S. NO. 2388
DESIGNED BY	TASK ORDER 000
ENGINEER	WEST VALLEY NUCLEAR SERVICES COMPANY, INC.
SCALE	WEST VALLEY, NEW YORK
REVISION	WEST VALLEY DEMONSTRATION PROJECT
CHECKED	VITRIFICATION FACILITY
DATE	CLOSED LOOP COOLING
ISSUED	WATER SYSTEM P&ID
PROJECT NO.	905D-052
SCALE	10
ISSUED FOR CONSTRUCTION	905-0-052 502 B

905-D-052 S01 B'

OFF-LINE RADIATION MONITOR SAID B B



D

C

B

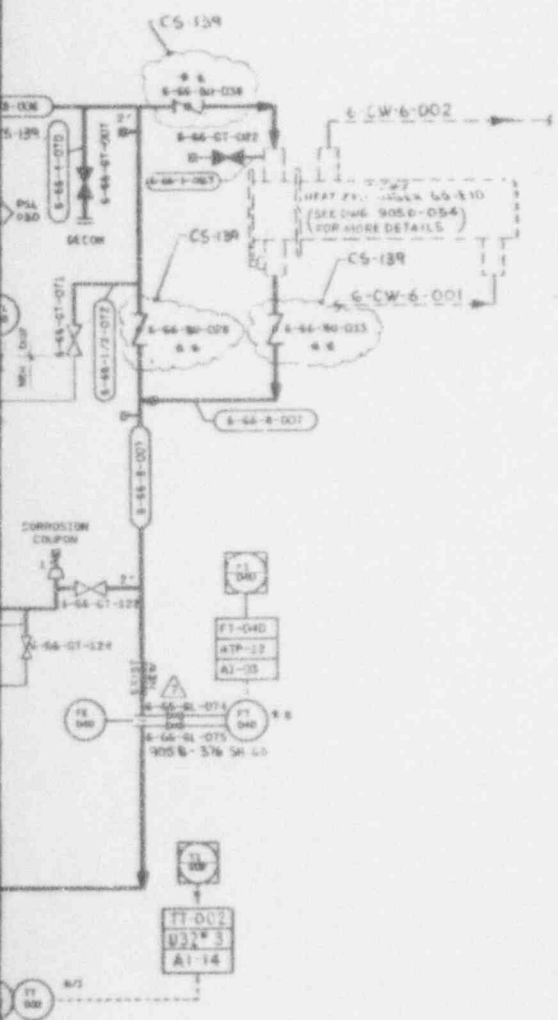
A



SI APERTURE CARD

Also Available On Aperture Card

C5-139



NO.	DATE	REVISION	DR	CH	APPROVED
0	7/7/89	REV. 905-D-054			
1	3-19-90	GEN. REV. ECH 3518	GW	NHJ	DIR
2	6-4-90	GEN. REV. ECH 3600	GW	NHJ	LJA
3	7-13-90	GEN. REV. ECH 3779	GW	WDC	LJA
4	7-2-92	REV PER ECH 5250	GW	WDC	LJA
5	9-16-92	REV/ECH 5493	MS	WDC	AWJ
6	8-31-93	REV/PER ECH 6599	PD	HQ	AWJ
7	9-3-93	REV/ECH 6699	PD	AB	DIR

REFERENCE DRAWINGS

P & ID VITRIFICATION FACILITY COOLING TOWER WATER SYSTEM	905-D-054
P & ID VITRIFICATION FACILITY UTILITY WATER	905-D-048501
P & ID V.F. INSTRUMENT RACK 3W2-1A	905-D-045 S01
P & ID V.F. INSTRUMENT RACK 2W2-1B	905-D-045 S05
P & ID V.F. INSTRUMENT RACK 2E9-8	905-D-045 S06
P & ID V.F. INSTRUMENT RACK 3W7	905-D-045 S08
P & ID V.F. INSTRUMENT RACK 3W5	905-D-045 S15
P & ID V.F. INSTRUMENT RACK 3E10	905-D-045 S18
P & ID V.F. INSTRUMENT RACK 2E10	905-D-045 S19
INSTRUMENT INSTALLATION DETAILS	905-B-576

- NOTES
1. THE SYSTEM DESIGNATOR FOR ALL PIPING COMPONENTS ON THIS SHEET IS 6-66-YY-XXX UNLESS OTHERWISE NOTED.
  2. <sup>NEW</sup> THIS SYMBOL IDENTIFIES THE SCOPE OF PIPING WORK TO BE UNDERTAKEN TO CONVERT THE EXISTING CLOW SYSTEM TO ITS FINAL HOT CONFIGURATION.
  3. COMPONENTS NOT INSTALLED AS PART OF THE EXISTING SYSTEM WHICH REQUIRE INSTALLATION FOR THE FINAL CONFIGURATION ARE MARKED WITH A DOUBLE ASTERISK (\*\*).
  4. BASKET STRAINERS 66-B-12 & 13 ARE START-UP STRAINERS. REMOVE STRAINERS PRIOR TO HOT OPS.

9401180105-19

WVS APPROVAL

DESIGN	[Signature]
CHECKED	[Signature]
DATE	[Signature]
SCALE	[Signature]
REVISED	[Signature]

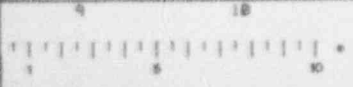
FOR DRAWING INDEX SEE DRAWING NO.

APPROVE WVS CO.	EBASCO SERVICES INCORPORATED
PROJECT NO.	AVE S.Y.C. NO. 2388
ENGINEER	TASK ORDER 022
DESIGNER	WEST VALLEY NUCLEAR SERVICES COMPANY, INC.
LEAD TECH ENGR	WEST VALLEY, NEW YORK
DESIGN	WEST VALLEY DEMONSTRATION PROJECT
CHECKED	VITRIFICATION FACILITY
DATE	CLOSED LOOP COOLING
SCALE	WATER SYSTEM P&ID
PROJECT NO.	905-D-052
SUBCONTRACT NO.	7
SCALE	905-D-052 S01 B

CHECK DOCUMENT CONTROL FOR LATEST REVISION

OCT 14 1993

CURRENT AS OF



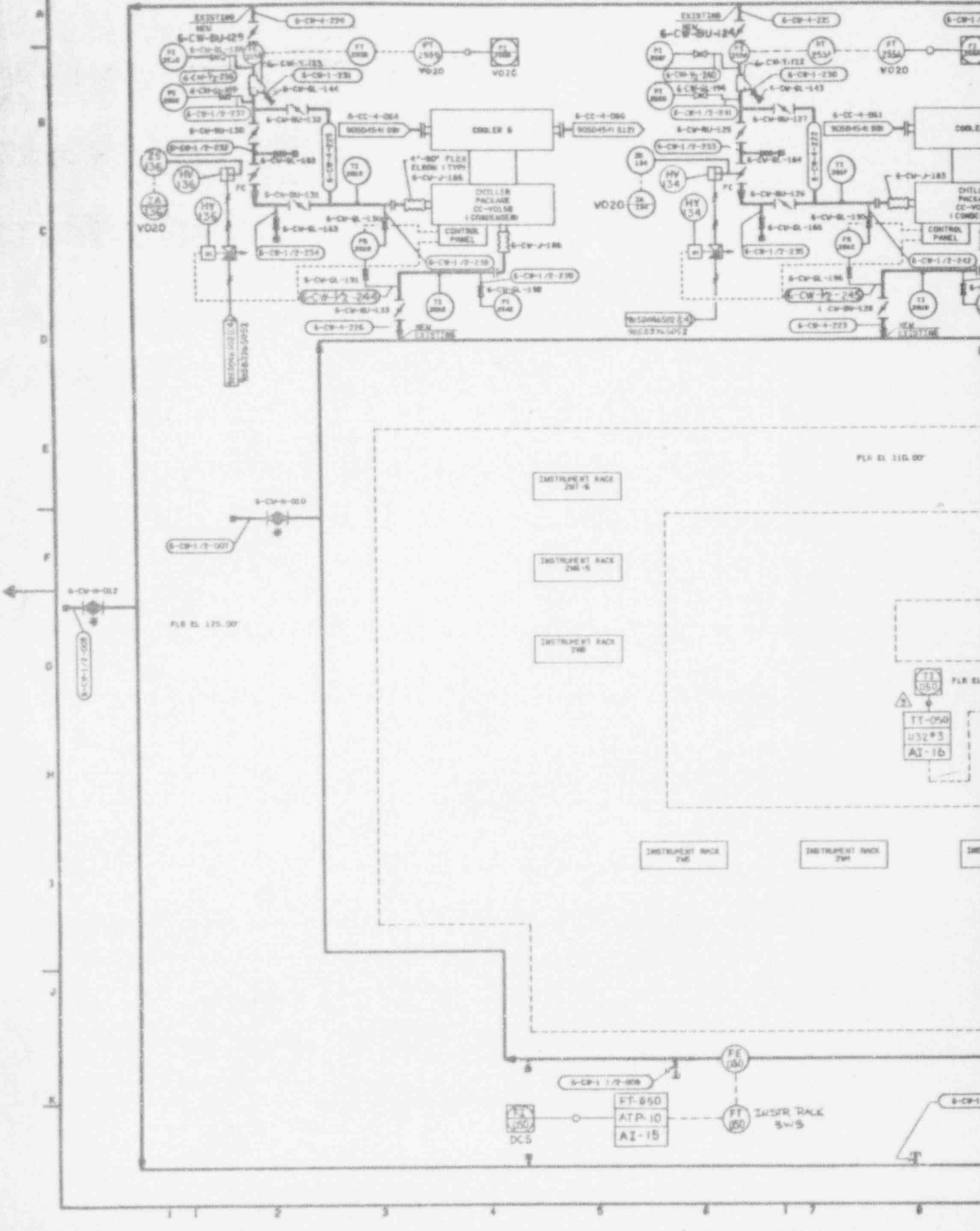
A

B

C

D

905-D-054



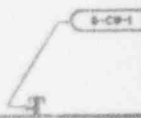
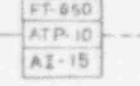
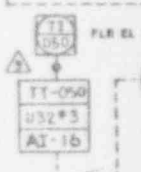
INSTRUMENT RACK 281-B

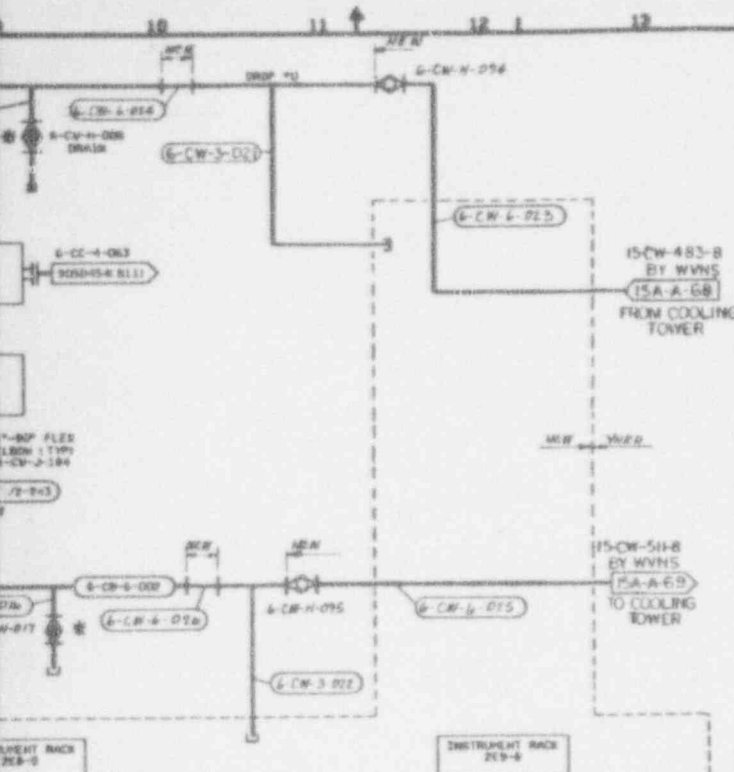
INSTRUMENT RACK 282-B

INSTRUMENT RACK 283-B

INSTRUMENT RACK 285

INSTRUMENT RACK 284





NO.	DATE	REVISION	DR	CH	APPROVED
B	10-22-89		A/J	P/E	R/J P/E
GENERAL REVISION					
C	6-28-89		A/J	SMR	R/J P/E
GENERAL REVISION					
D	7/1/89	REV. # 99			
1	3-19-90	DEM. REV. PER ECH 3569	LR	MS	DR
2	5-29-90	GEN. REV. PER ECH 3670	AWN	MS	DR
3	7-12-90	REV. PER ECH 3797	AWN	MS	DR
4	9-10-90	REV. PER ECH 3907	AWN	MS	DR
5	1-30-91	REV'D. PER ECH 4102	AWN	MS	DR
6	3/27/91	PER ECH 4197	AWN	MS	DR
7	6-24-92	ECH 5028	PD	MS	DR
8	9-25-92	REV. PER ECH 5289	PD	MS	DR
9	5-31-93	REV. PER ECH 6599	PD	KQ	DR

NOTES:

- 1. A SINGLE ASTERISK (\*) INDICATES EXISTING VALVES AND/OR EQUIPMENT TO BE RETAINED.

REFERENCE DRAWINGS:

- VITRIFICATION FACILITY HVAC CHILLED WATER SYSTEM P & ID SHEET 2 905-D-454
- P & ID COLD CHEMICAL WATER SYSTEMS 905-D-021
- INSTRUMENT INSTALLATION DETAILS 905-B-376

SI APERTURE CARD

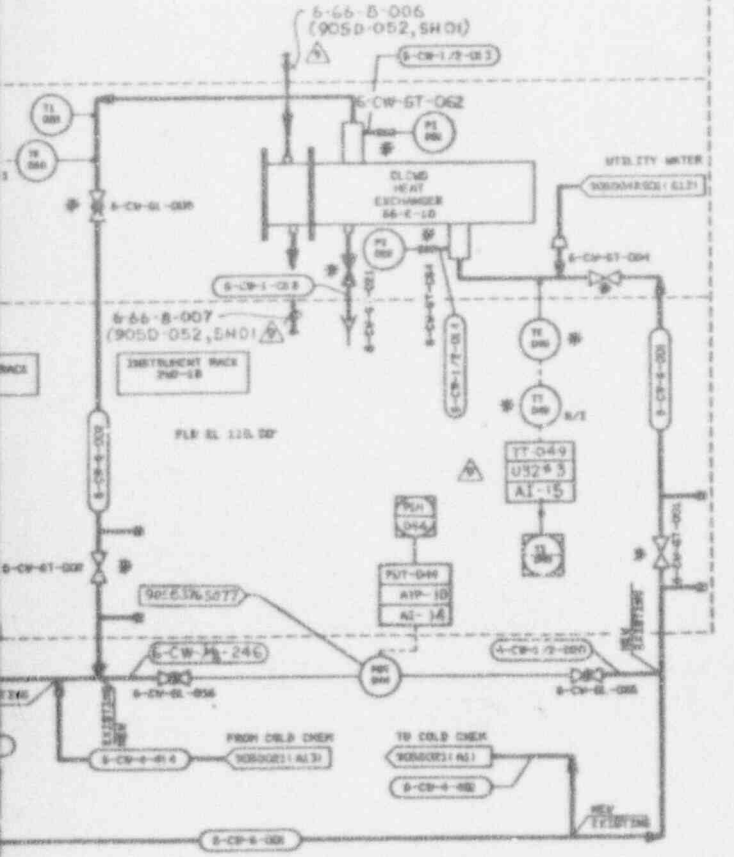
Also Available On Aperture Card

CAUTION  
 CURRENT AS OF  
 OCT 14 '93  
 CHECK DOCUMENT CONTROL FOR LATEST REVISION.

9401180105-20

WVMS APPROVAL

DCG MGR	<i>[Signature]</i>
DCG ENR	<i>[Signature]</i>
DRFT. SUPV	<i>[Signature]</i>
O.A. MGR	<i>[Signature]</i>
FMS MGR	<i>[Signature]</i>



FOR DRAWING INDEX SEE DRAWING NO.

PROJECT REC	04-11-89	EBASCO SERVICES INCORPORATED
DESIGNED BY	04-21-89	WEST VALLEY NUCLEAR SERVICES COMPANY INC
CHECKED BY	04-21-89	WEST VALLEY DEMONSTRATION PROJECT
DATE	04-21-89	P & ID
SCALE	AS SHOWN	VITRIFICATION FACILITY
PROJECT NO.	905-D-054	COOLING TOWER WATER SYSTEM
DRAWN BY	DR	905 D-054 9

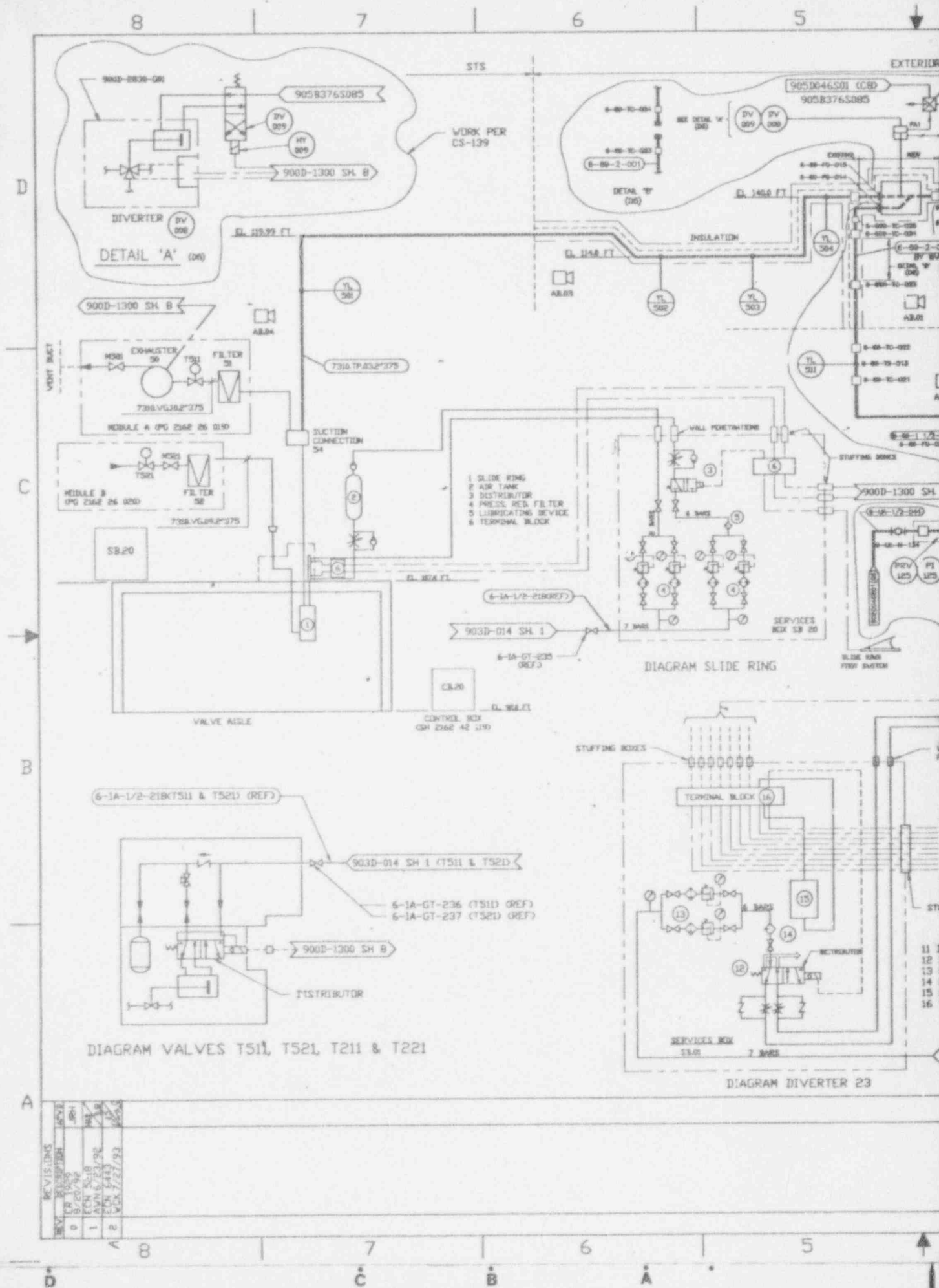
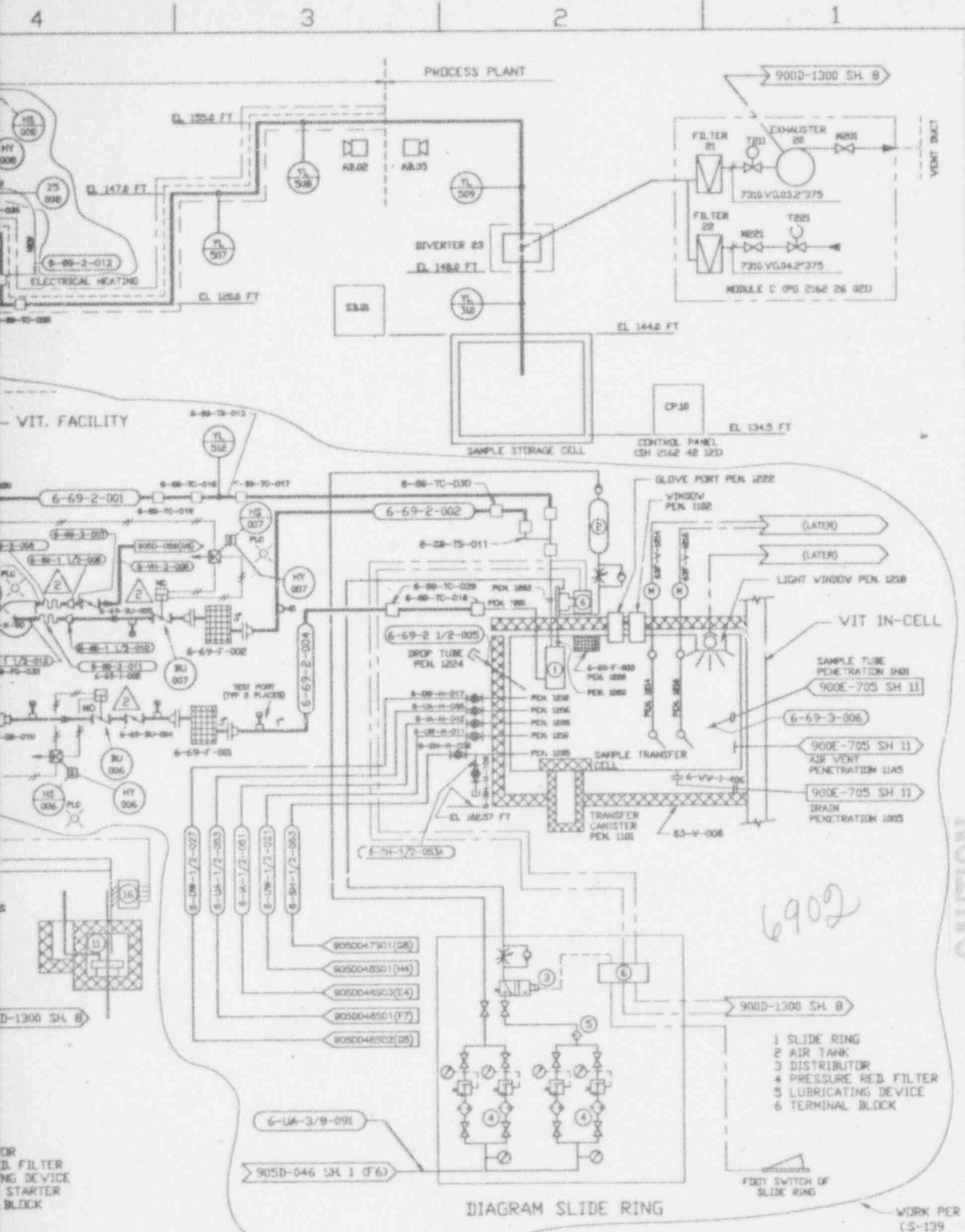


DIAGRAM VALVES T51, T52, T21 & T22

DIAGRAM SLIDE RING

DIAGRAM DIVERTER 23

REV.	DATE	BY	CHKD.	DESCRIPTION
1	1/23/92	AV	AV	ISSUED FOR CONSTRUCTION
2	1/27/92	AV	AV	REVISED TO REFLECT CHANGES



SI  
APERTURE  
CARD

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Aperture Card

CAUTION  
CURRENT AS OF  
OCT 14 1983

CHECK DOCUMENT CONTROL  
FOR LATEST REVISION.

- 6902
- 1 SLIDE RING
  - 2 AIR TANK
  - 3 DISTRIBUTOR
  - 4 PRESSURE RED. FILTER
  - 5 LUBRICATING DEVICE
  - 6 TERMINAL BLOCK

DIAGRAM SLIDE RING

WORK PER  
CS-139

QTY	ITEM	NUMERICAL OR	PART OR	MATERIAL OR SPEC
REQD	NO.	DESCRIPTION	IDENTIFYING NO.	
PARTS LIST				
UNLESS OTHERWISE SPECIFIED				
DRAWN BY A. NICKS DATE 8/14/90				
CHECKED BY DON SHAFFER DATE 8-15-90				
DESIGNED BY L.E. BOHEVIAN DATE 8-15-90				
CALCULATED BY V. DESCAMP DATE 8-16-90				
APPROVED BY P.A. SZALINSKI DATE 8/17/90				
DRAWN BY D.L. SHUGARS DATE 8/17/90				
CHECKED BY JOHN HORTON DATE 8/20/90				
PNEUMATIC SAMPLE TRANSFER SYSTEM P & ID				
DWG NO.	SCALE	NEPVE	DWG NO.	REV
905D-058			905D-058	2
SHEET 1 OF 2				

CAD DRAWING-DO NOT REVISE THIS ORIGINAL

9401180105-21



905D-451

STANDARD CORPORATION - NEW YORK, NEW YORK




STANDARD CORPORATION - NEW YORK, NEW YORK

NO	DATE	REVISION	BY	CH	APPROVED
B	02-27-87		R/L	WL	PP JGE MBY
GENERAL REVISION					
C	05-19-87		T/J	WBL	PP JGE MBY
GENERAL REVISION					
D	09-09-88		R/L	WBL	JB NAE MBY
GENERAL REVISION PER EDAR 1100					
E	04/25/89		R/L	WBL	PP JGE MBY
GENERAL REVISION					
O	7/9/89	CR 1046			
1	02-15-89	GENERAL REV PER ECN 5297	GW	DES	EWK
2	7-16-90	GENERAL REV PER ECN 5300	SJA	DES	EWK
3	02-9-90	REV PER ECN 5382	CGR	DES	EWK
4	3-16-93	REV ECN 5839	PD	DES	EWK
5	8-28-93	REV ECN 6578	PD	K/G	DES

SI APERTURE CARD

Also Available On Aperture Card

NOTES

- FOR SYMBOLS, NOTES AND LEGEND SEE DRAWINGS 900-D-1306, 1307 & 1308.
- Δ P DENOTES INCHES OF WATER COLUMN.
- ALL AIR QUANTITIES (CFM) ARE FOR 1500 FT ALTITUDE ABOVE SEA LEVEL.
- ALL EQUIPMENT TAG NUMBERS ARE PREFIXED BY SYSTEM NUMBER 67 UNLESS OTHERWISE NOTED
-  REPRESENTS DESIGNATED CONTROL PANEL. SHAPED DISPLAY SYMBOLS PER ISA-55.3 (1982) INDICATES CRT DISPLAY OR KEYBOARD CONTROL.
-  REPRESENTS SEPARATE INSTRUMENTS TAG NUMBERS WITH SUFFIXES A, B, C, ...Z.
-  REPRESENTS INSTRUMENT AIR SUPPLY. SEE REFERENCE DWG 905-D-376 BELOW.

REFERENCE DRAWINGS

VITRIFICATION FACILITY CONTROL ROOM VENTILATION SYSTEM PLAN EL 124'-3" & 127'-0"	905-D-465
VITRIFICATION FACILITY AIR FLOW DIAG	905-D-450
VITRIFICATION FACILITY HVAC CHILLED WATER SYSTEM PAID	905-D-453501 AND 905-D-453502
VITRIFICATION FACILITY HVAC CHILLED WATER SYSTEM PAID	905-D-454
VITRIFICATION FACILITY FIRE PROTECTION SYSTEM PAID	905-D-455
INSTRUMENT INSTALLATION DETAILS (FOR EXACT SHEET NUMBER SHOWING DETAILED AIR SUPPLY TO PARTICULAR AIR USER SEE HVAC INSTRUMENT LIST)	905-B-376
INSTRUMENT LOCATION ARRANGEMENTS	905-D-370
INSTRUMENT LOCATION ARRANGEMENTS	905-D-378

CURRENT AS OF

OCT 14 1993

CHECK DOCUMENT CONTROL FOR LATEST REVISION

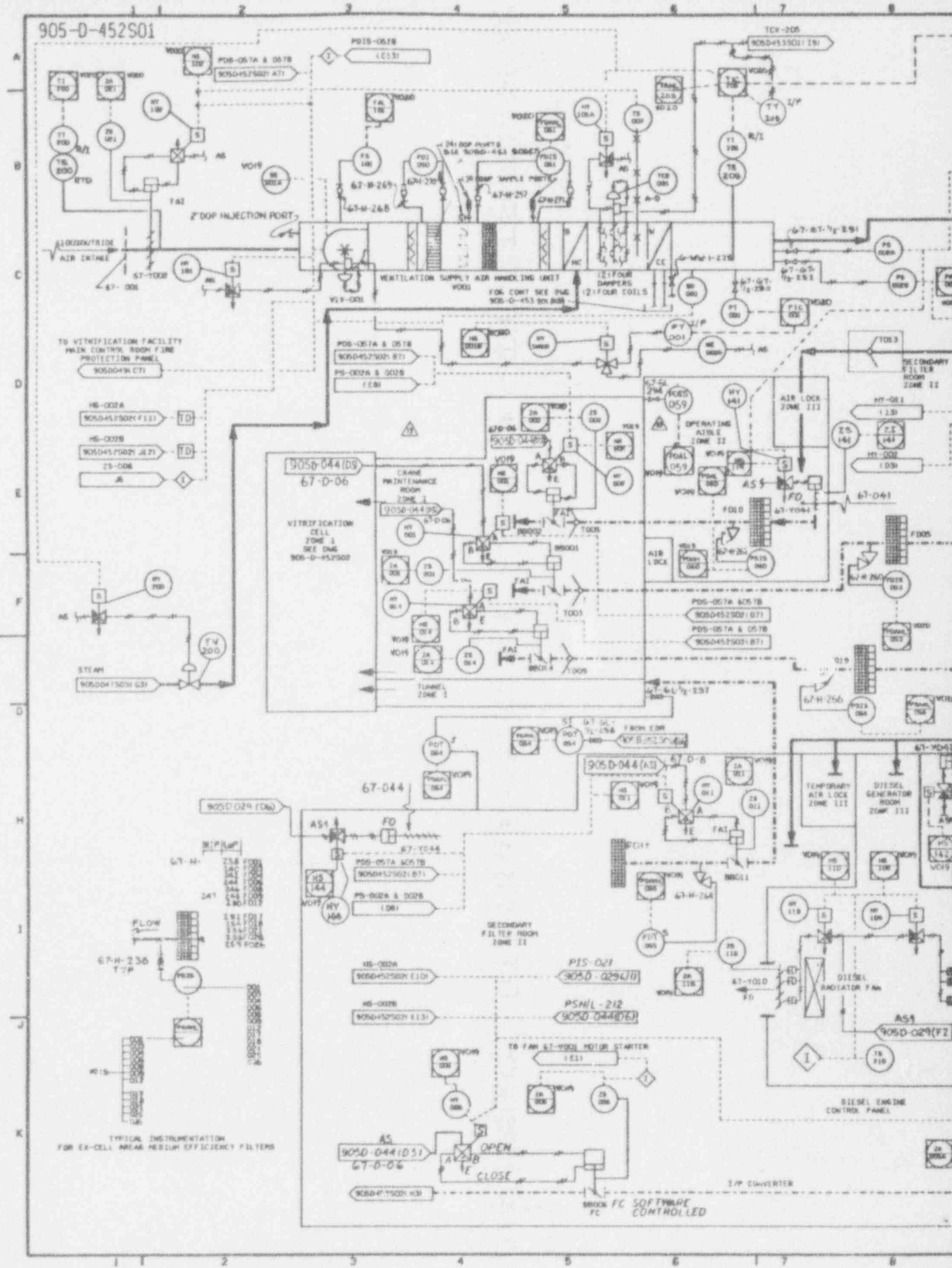
9401180105-22

WVNS APPROVAL

COG MGR \_\_\_\_\_  
 COG ENR \_\_\_\_\_  
 OPI SUPR \_\_\_\_\_  
 QA MGR \_\_\_\_\_  
 RQS MGR \_\_\_\_\_

FOR DRAWING INDEX SEE DRAWING NO.

APPROV WVNS CO.	EBASCO SERVICES INCORPORATED		
PROJECT NO.	AVE S.P.S. NO. 2388 TRNK ORDER 002		
ENGINEER	WEST VALLEY NUCLEAR SERVICES COMPANY INC		
LEAD OPI ENGR	WEST VALLEY DEMONSTRATION PROJECT		
DESIGNER	VITRIFICATION SYSTEM HVAC AIR FLOW DIAGRAM AND P&ID CONTROL ROOM		
CHECKED			
DRAWN			
BY-ACCP-GEN-4120	SCALE	DRAWING NO.	REV.
PROJECT NO.	SCALE NONE	905D-451	5
1P-CMP-00275			
ISSUED FOR CONSTRUCTION			



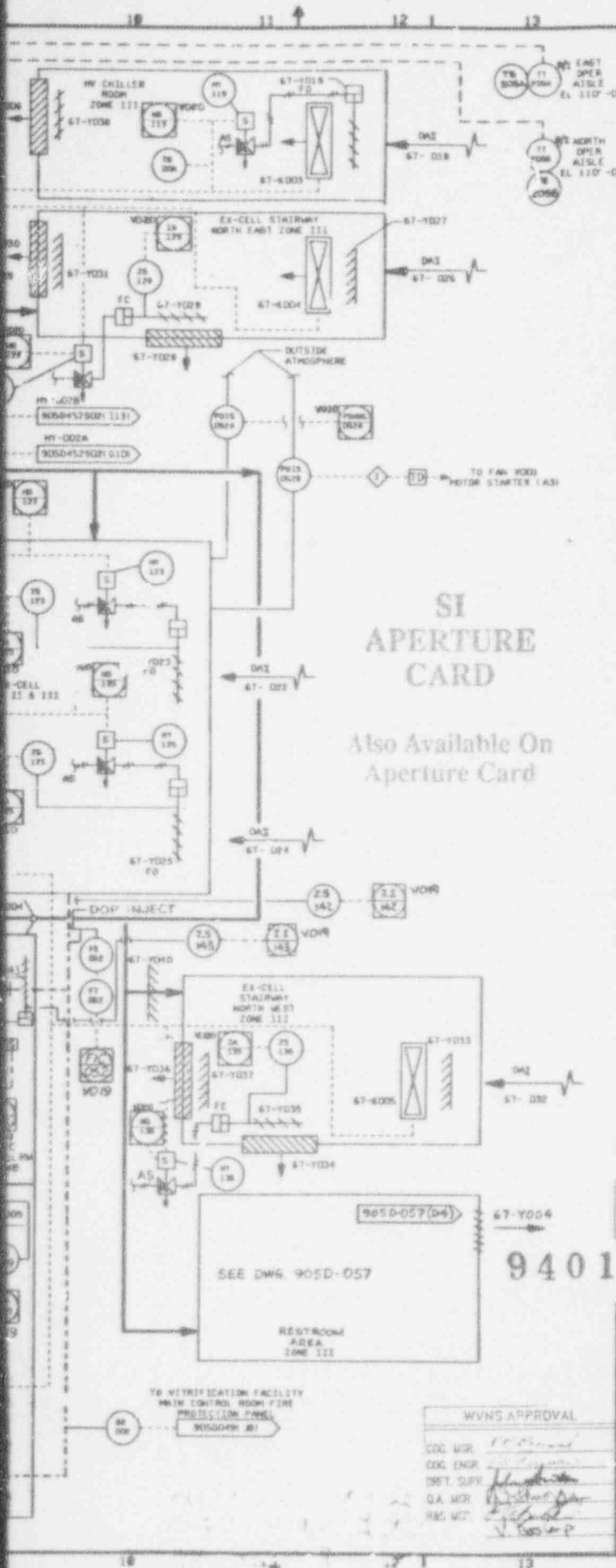
TO VITRIFICATION FACILITY  
 MAIN CONTROL ROOM FIRE  
 PROTECTION PANEL  
 905D452S01 (C7)

- HS-002A  
905D452S01 (F11) T.D.
- HS-002B  
905D452S01 (J27) T.D.
- ZS-006  
J.R.

TYPICAL INSTRUMENTATION  
 FOR EX-CELL AREA MEDIUM EFFICIENCY FILTERS

PC SOFTWARE CONTROLLED





SI  
APERTURE  
CARD

Also Available On  
Aperture Card

NO.	DATE	REVISION	DR	CH	APPROVED
B	02-27-81	GENERAL REVISION	P.A.	M.	J.F.
C	05-19-81	GENERAL REVISION	T.B.	W.L.	J.F.
D	11-05-81	GENERAL REVISION PER EBAR 3400 & TA 622 DATED 10-29-81	T.B.	W.L.	J.F.
E	04-31-82	GENERAL REVISION PER EBAR 3180	W.L.	W.L.	J.F.
F	04-23-82	GENERAL REVISION PER EBAR 3180	P.J.S.	J.L.	J.F.
G	07-09-82	REV. PER ECH 4679	W.L.	W.L.	J.F.
H	08-22-82	GENERAL REV PER ECH 5625	W.L.	W.L.	J.F.
I	08-31-82	REV PER ECH 6578	PD	K.G.	J.F.
J	08-31-82	REV PER ECH 4422	PD	W.L.	J.F.
K	09-14-82	REV ECH 6736	PD	W.L.	J.F.
L	10-7-82	REV ECH 5865	PD	W.L.	J.F.
M	01-20-83	REV PER ECH 4865	W.L.	W.L.	J.F.
N	2-18-83	REV PER ECH 4781	W.L.	W.L.	J.F.

- NOTES
- FOR SYMBOLS, NOTES AND LEGEND SEE DRAWINGS 900-D-1306, 1307 & 1308.
  - ALL EQUIPMENT IN THE SECONDARY FILTER ROOM AND CRANE MAINT. ROOM SHALL BE SEISMICALLY QUALIFIED EQUIPMENT AND SHALL BE SEISMICALLY SUPPORTED.
  - 
  - ALL TAG NUMBERS ARE PREFIXED BY SYSTEM NUMBER 67 UNLESS OTHERWISE NOTED.
  - 100- (W.L.) REPRESENTS SEPARATE INSTRUMENTS TAG NUMBERS WITH SUFFIXES A, B, C, -Z.
  - AS = 50 PSIG, ASI = 20 PSIG
  - 100- (W.L.) REPRESENTS DESIGNATED CONTROL PANEL MARKING DISPLAY SYMBOLS FROM ISA - S.S.3 (MKS) INDICATES CRT DISPLAY OR KEYBOARD CONTROL.
  - AS - REPRESENTS INSTRUMENT AIR SUPPLY SEE REFERENCED DWG 905-B-376 AND 905-B-552 ET AL.

- REFERENCE DRAWINGS
- V.F. HVAC STEAM SYSTEM P&ID 905-D-047501
  - V.F. FIRE PROTECTION P&ID 905-D-049
  - V.F. VENTILATION SYSTEM PLAN EL. 100.00' 905-D-401
  - V.F. VENTILATION SYSTEM SECTIONS 905-D-402
  - V.F. SECONDARY HEPA FILTER RM PLAN EL. 100.00' 905-D-403
  - V.F. SECONDARY HEPA FILTER RM SECTIONS 905-D-404
  - V.F. VENTILATION SYSTEM PLANS & SECTIONS 905-D-405
  - V.F. VENTILATION SYSTEM PLAN EL. 124.00' 905-D-406
  - V.F. HVAC-INSTRUMENTATION PIPING PLAN EL. 100.00' 905-D-409
  - VITRIFICATION FACILITY AIR FLOW DIAG. 905-D-450
  - VITRIFICATION FACILITY INST. & UTILITY AIR P&ID 905D-029
  - VITRIFICATION FACILITY AIR FLOW DIAG. CONTROL ROOM 905-D-451
  - VITRIFICATION FACILITY HVAC CHILLED WATER SYSTEM P&ID AND 905-D-454
  - INSTRUMENT LOCATION ARRANGEMENTS 905-D-370 AND 905-D-378 905-B-376 905-B-552

INSTRUMENT INSTALLATION DETAILS

NO.	DATE	REV PER ECH	DR	CH	APPROVED
7	4-26-82	REV PER ECH 4891	PD	W.L.	J.F.
8	05-11-82	REV PER ECH 5205	W.L.	W.L.	J.F.
9	11-24-82	GEN REV/ECH 5041	PD	W.L.	J.F.

9401180105-23

FOR DRAWING INDEX SEE DRAWING NO.

ISSUED FOR CONSTRUCTION	SCALE	DATE	NO.

WBNS APPROVAL

CCC. MGR.	
CCC. ENGR.	
INST. SUPV.	
Q.A. MGR.	
R&S MGR.	

EBASCO SERVICES INCORPORATED  
A/E S.Y.S. NO. 2288 TAGS UNDER 300

WEST VALLEY NUCLEAR SERVICES COMPANY, INC  
WEST VALLEY, NEW YORK

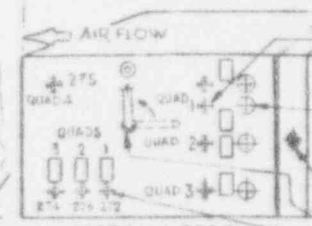
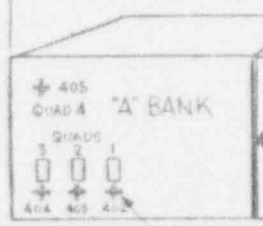
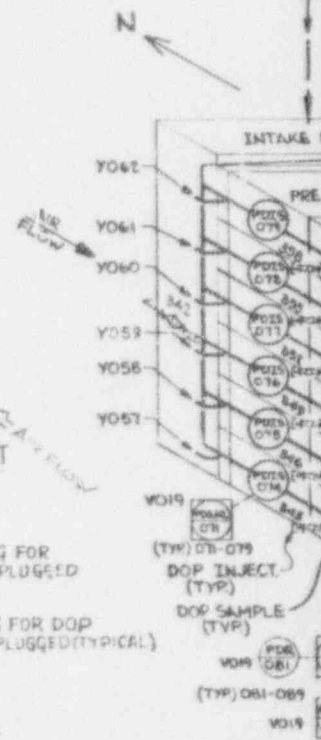
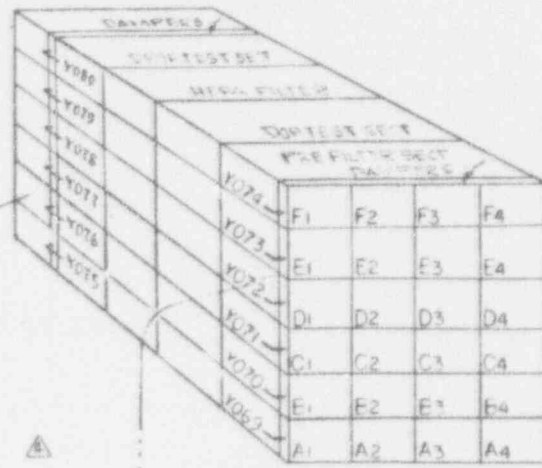
WEST VALLEY DEMONSTRATION PROJECT

VITRIFICATION SYSTEM 4  
HVAC P&ID  
VITRIFICATION FACILITY

PROJECT NO.	905D-452
SCALE	AS SHOWN
DATE	02-27-81

CURRENT AS OF  
AUG 14 1983  
CHECK DOCUMENT CONTROL  
FOR LATEST REVISION.

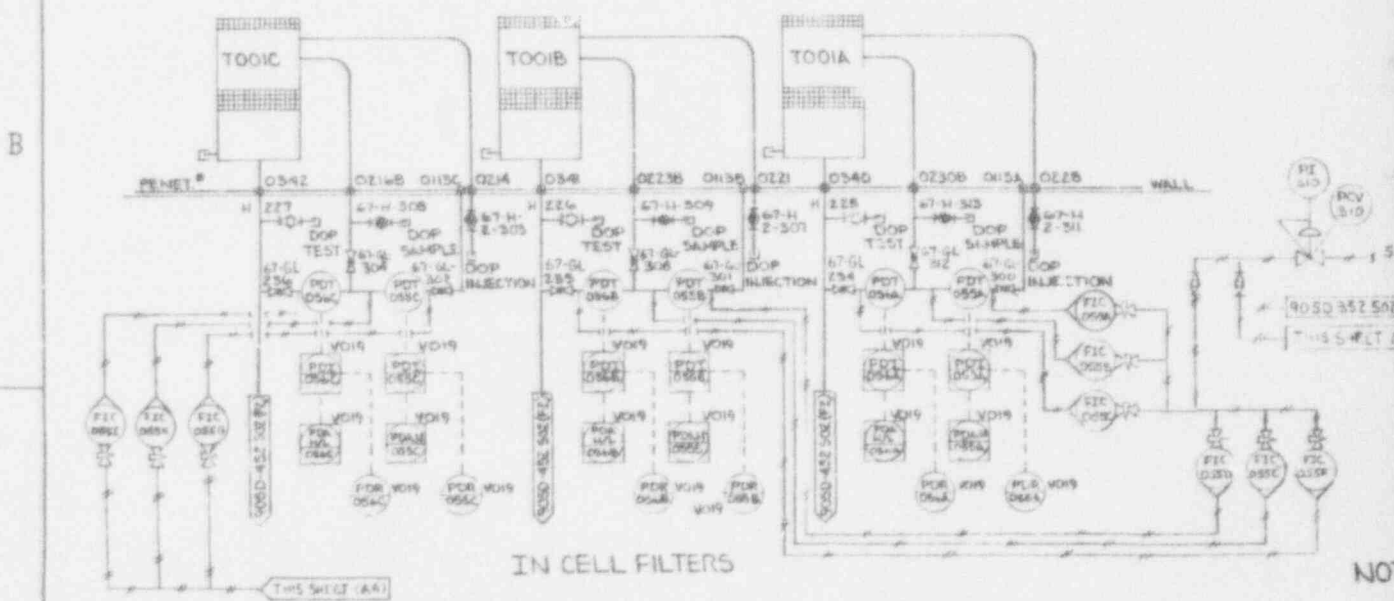
FILTER CELL	DOP UP	DOP DOWN
A 1	272	402
2	3	3
3	4	4
4	5	5
B 1	6	6
2	7	7
3	8	8
4	9	9
C 1	280	410
2	1	1
3	2	2
4	3	3
D 1	4	4
2	5	5
3	6	6
4	7	7
E 1	8	8
2	9	9
3	396	420
4	7	1
F 1	8	2
2	9	3
3	400	4
4	1	5



1/8" COUPLING FOR PLANT AIR, PLUGGED (TYPICAL)  
 1" COUPLING FOR DOP INJECTION PLUGGED (TYPICAL)  
 24 FILTER TAPS (20 PLUGGED)  
 MIXER HANDLE  
 UPSTREAM SAMPLE PORT W/ VALVED QUICK DISCONNECT

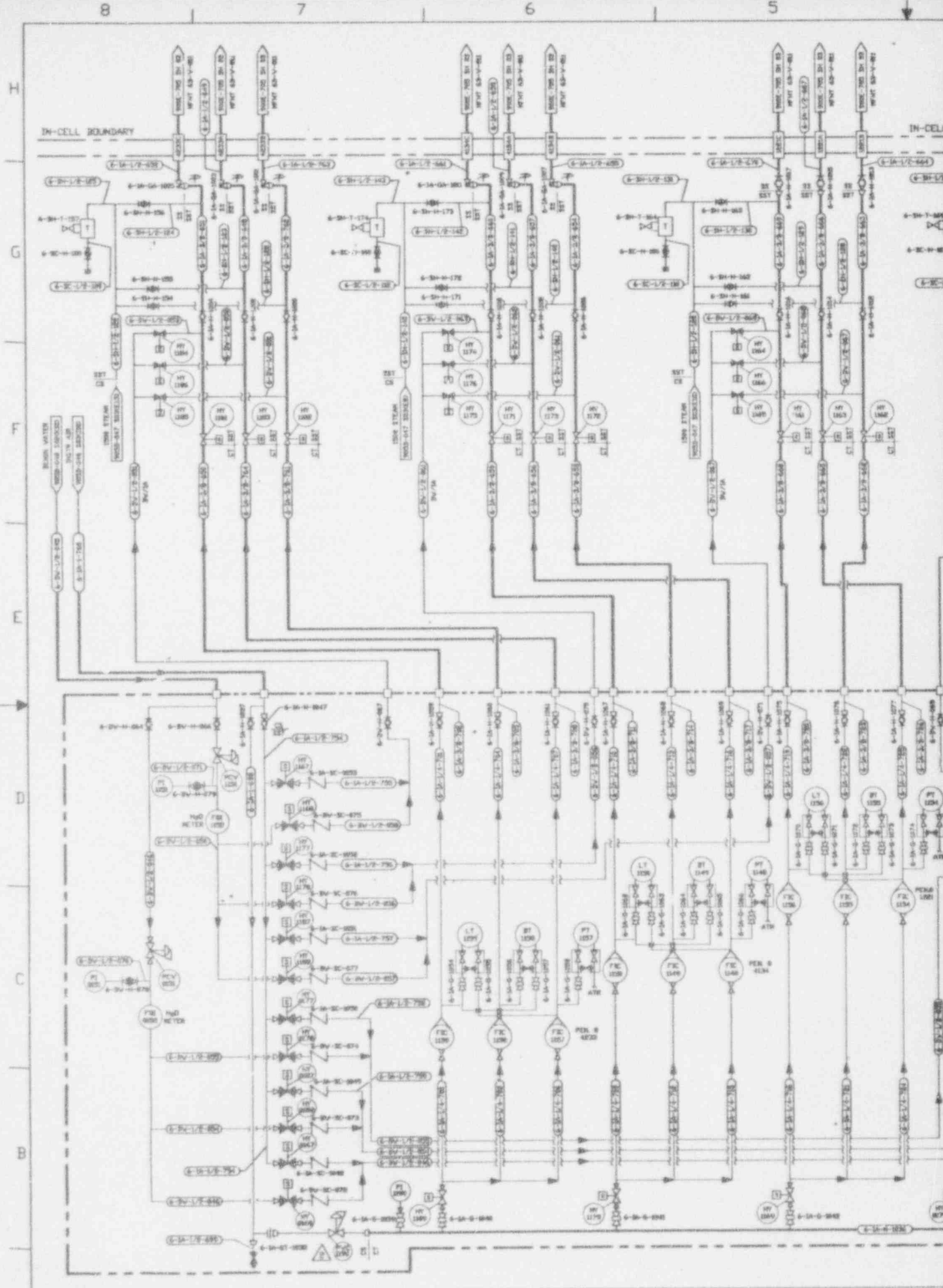
DOWNSTREAM TEST SECTION

UPSTREAM TEST SECTION



NO.	REVISIONS	DATE
1	ADDED THIS BA FOR EIA 285 TO CANT 285C C&E	11-14-83
2	REVISION FOR NON	11-14-83
3	GEN REV/ED 5001	11-25-92
4	REVISION 06.27	02-27-93

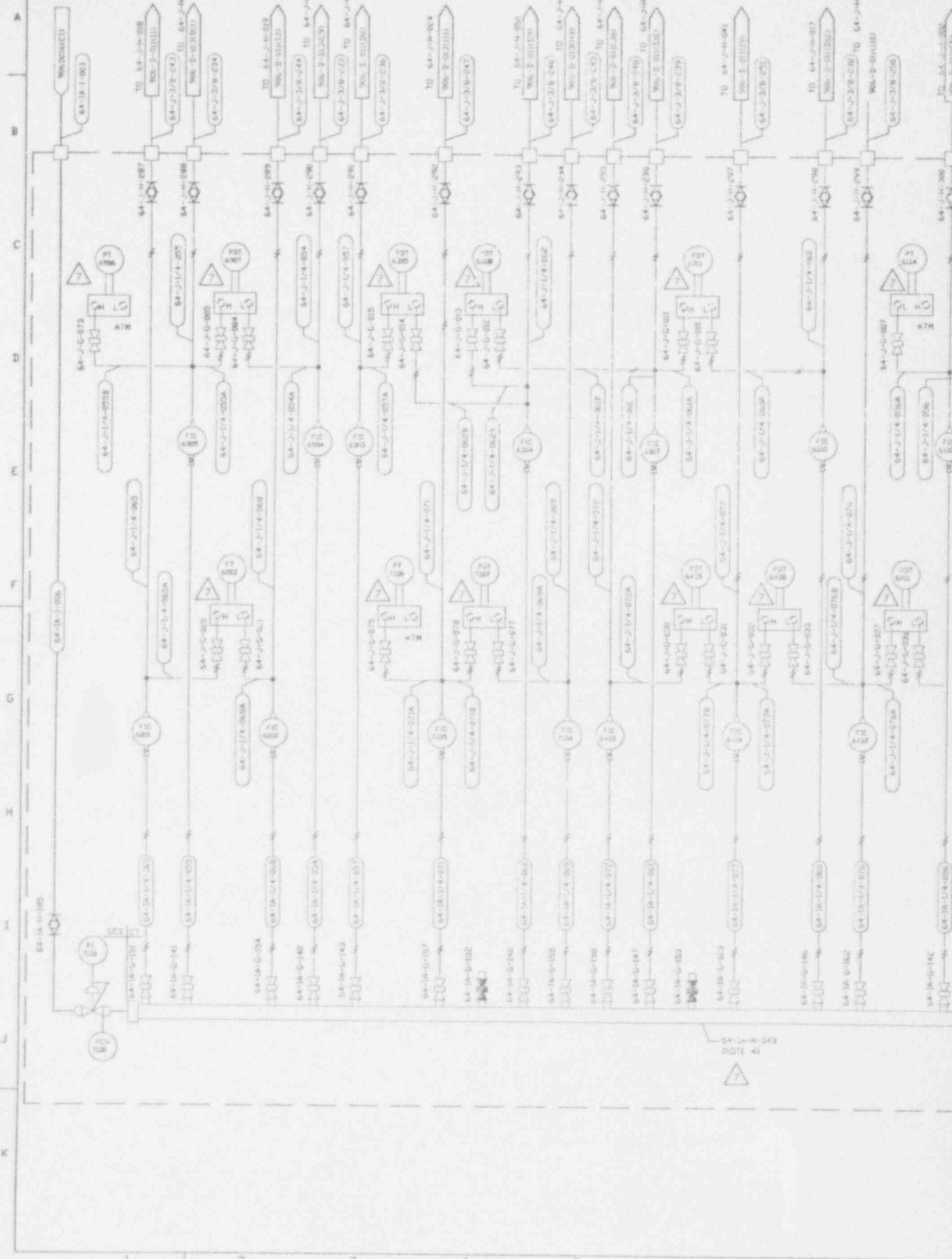




REV	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR CONSTRUCTION	11/15/58	J. W. HARRIS	J. W. HARRIS
2	REVISED TO SHOW CHANGES	12/15/58	J. W. HARRIS	J. W. HARRIS
3	REVISED TO SHOW CHANGES	1/15/59	J. W. HARRIS	J. W. HARRIS
4	REVISED TO SHOW CHANGES	2/15/59	J. W. HARRIS	J. W. HARRIS
5	REVISED TO SHOW CHANGES	3/15/59	J. W. HARRIS	J. W. HARRIS



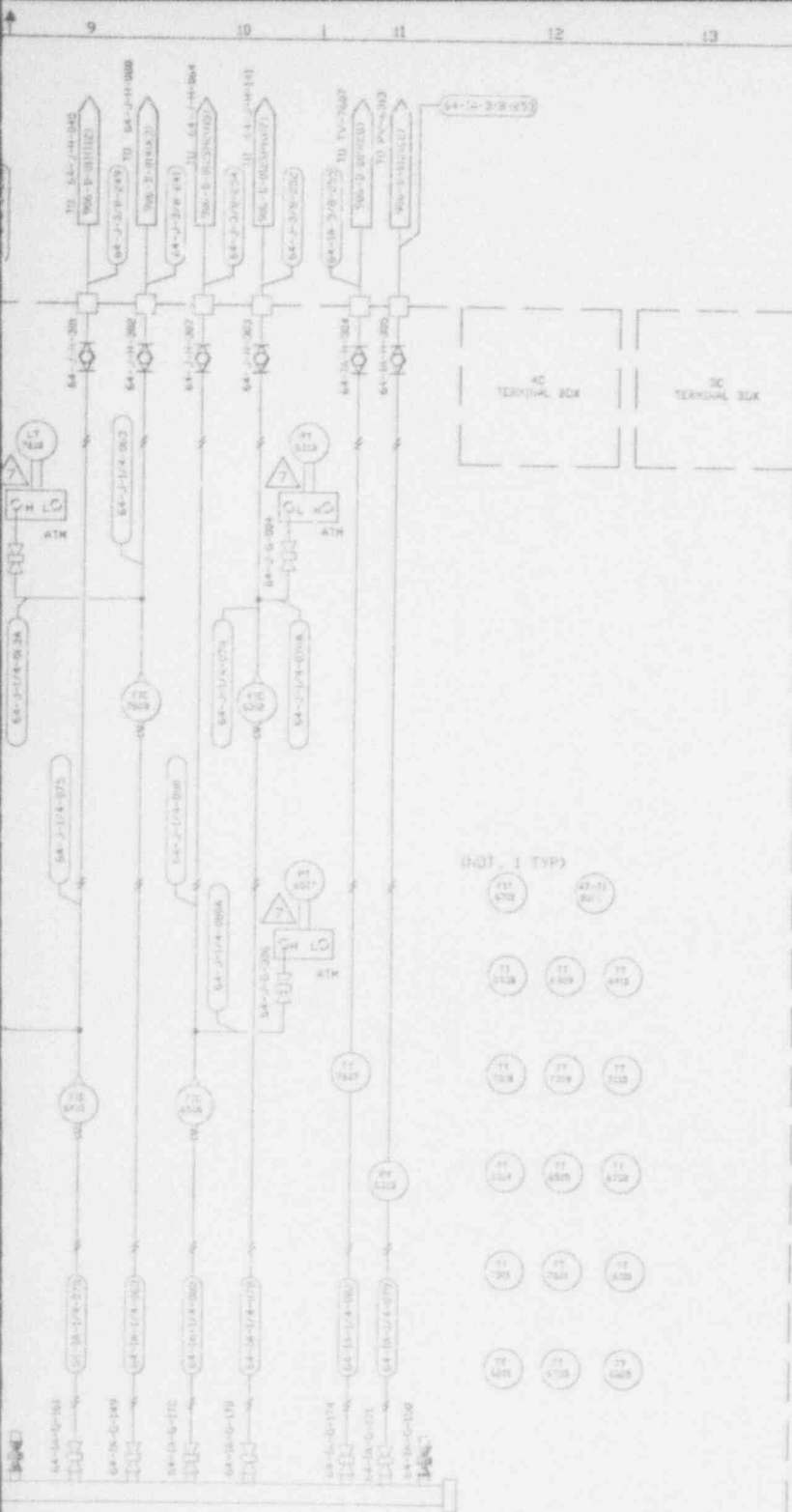
906-D-025



A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

1  
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4  
5  
6  
7  
8

D  
C  
B  
A



NO.	DATE	REVISION	DR	CH	APPROVED
0	9/24/91	CR 2193			JRH
1	10/3/91	GEN REV PER ECN 4551	LRK	HAB	BL GERMOND
2	4/15/92	REV PER ECN 5055	CDR	HAB	BL GERMOND
3	06/16/92	REV PER ECN 5251 & 5252	CRG	HAB	BL GERMOND
4	12/3/92	GEN REV PER ECN 5698	SRD	HAB	LED DLG
5	02/26/93	GEN REV PER ECN 5971	CRG	HAB	BLG
6	03/15/93	REV PER ECN 5997	DAK	HAB	JHK
7	9/2/93	REV PER ECN 6598	PAJ	AP	1662

**NOTES:**

1. ALL INSTRUMENT ELECTRICAL CONNECTIONS TO BE WIRED TO TERMINAL BOX
2. ALL INSTRUMENT TAG NUMBERS ARE PREFIXED BY SYSTEM DESIGNATOR 64, EXCEPT AS NOTED.
3. ALL BULKHEAD TUBING CONNECTIONS ARE SHOWN TOP ENTRY, THE ACTUAL INSTALLATION IS SIDE OF INSTRUMENT RACK.
4. ACTUAL LOCATION OF HANDFOLD VALVES, SEE DWGS 900D-4841 AND 906D-071.

**REFERENCE DRAWINGS:**

- NOTES, SYMBOLS AND LEGEND 900-D-1036  
 NOTES, SYMBOLS AND LEGEND 900-D-1207  
 NOTES, SYMBOLS AND LEGEND 900-D-1208  
 V.F. PAID MELTER OFF-GAS SYSTEM 906-E-011  
 V.F. PAID MELTER OFF-GAS SYSTEM 906-E-012  
 V.F. PAID MELTER OFF-GAS SYSTEM 906-E-013  
 V.F. PAID MELTER OFF-GAS SYSTEM 906-D-014  
 V.F. PAID MELTER OFF-GAS SYSTEM 906-D-015  
 INSTRUMENT AIR SYSTEM PAID 906-E-016  
 V.F. HVAC AIR FLOW & PAID MELTER OFF-GAS SYSTEM 906D-018 & 906D-019  
 V.F. MELTER EX-CELL OFF-GAS SYSTEM INSTRUMENT RACK 02 SHEET 1 906-D-026  
 V.F. MELTER EX-CELL OFF-GAS SYSTEM INSTRUMENT RACK 02 SHEET 2 906-D-027  
 V.F. MELTER EX-CELL OFF-GAS SYSTEM INSTRUMENT RACK 02 SHEET 3 906-D-028  
 EXCELL OFF-GAS SYSTEM INSTRUMENT RACK 64-1-007 AC JUNCTION BOX SHEET 1 906D-021  
 EXCELL OFF-GAS SYSTEM INSTRUMENT RACK 64-1-007 AC JUNCTION BOX SHEET 2 906D-021  
 EXCELL OFF-GAS SYSTEM INSTRUMENT RACK 64-1-008 JUNCTION BOX SHEET 3 906D-021  
 EXCELL OFF-GAS SYSTEM INSTRUMENT RACK LAYOUT 64-1-007 906D-072  
 EXCELL OFF-GAS SYSTEM INSTRUMENT RACK LAYOUT 64-1-008 906D-072  
 INSTRUMENT RACK 64-1-007 INSTALLATION DETAILS 900D-4841  
 INSTRUMENT RACK 64-1-008 INSTALLATION DETAILS 900D-4842  
 FOR INSTRUMENT RACK SPEC SEE IS-158 AND IS-151

**SI APERTURE CARD**

Also Available On Aperture Card

CAUTION

CURRENT AS OF OCT 14 '93

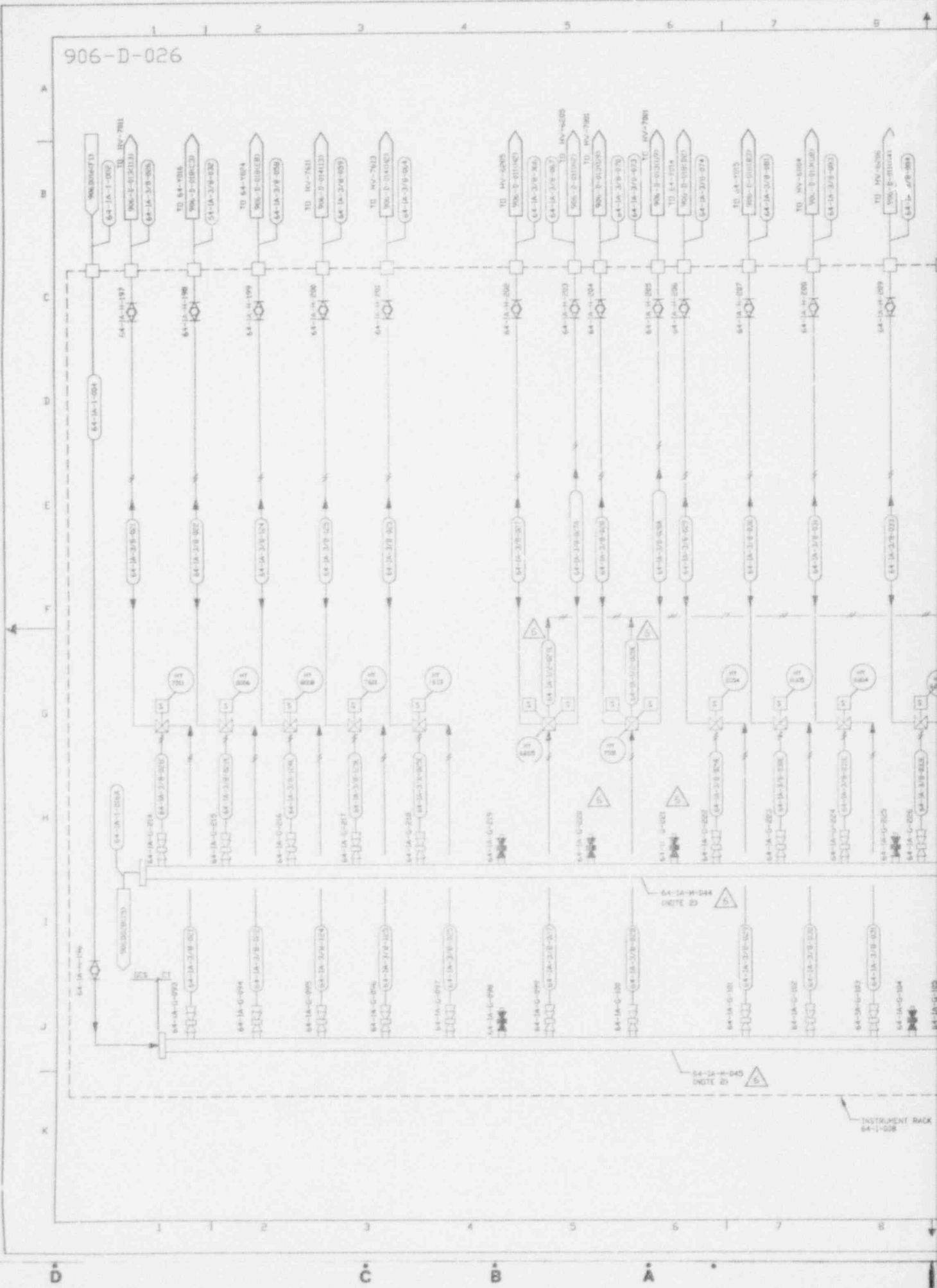
CHECK DOCUMENT CONTROL FOR LATEST REVISION.

INSTRUMENT RACK 64-1-007

FOR DRAWING INDEX SEE DRAWING NO.	
APPROVED WORK BY	CSASCO SERVICES INCORPORATED
PROJECT NO.	AVE GAS NORTH
PLANT STOREY	64-1-007
INSTRUMENT SURV	WEST VALLEY NUCLEAR SERVICES INCORPORATED
V. ALUM	WEST VALLEY DEMONSTRATION PROJECT
HEAD OFFICE ADDR	
S. ADDR	
PERSON	
P. J. LEWIS	
DESIGNED BY	
V. SHARSHANE	
DRAWN BY	
K. J. LEWIS	
REVISIONS	
PROJECT NO.	906D-025
DATE	7

9401180105-26

906-D-026





ID	DATE	REVISION	DR	CH	APPROVED
0	9/24/91	CR 8193			JRM
1	10/3/91	CON REV PER ECN 4853	LJK	HAS	BLDERMOND
2	4/15/92	REV PER ECN 5095	CDR	HAS	BLDERMOND
3	05/16/92	REV PER ECN 5051 & 5258	SRD	HAS	BLDERMOND
4	12/8/92	GEN REV PER ECN 5698	SRD	HAS	LED BLEDROW
5	03/15/93	REV PER ECN 5997	DAK	HAS	JJK
6	9/2/93	REV PER ECN 6598	DAK	HAS	JJK



NOTES:

- 1 FOR NOTES AND REFERENCE DRAWINGS SEE 906-D-025
- 2 ACTUAL LOCATION OF MANIFOLD VALVES, SEE DWGS 906D-4042 AND 906D-072.

LEGEND:



SI APERTURE CARD

Also Available On Ap...

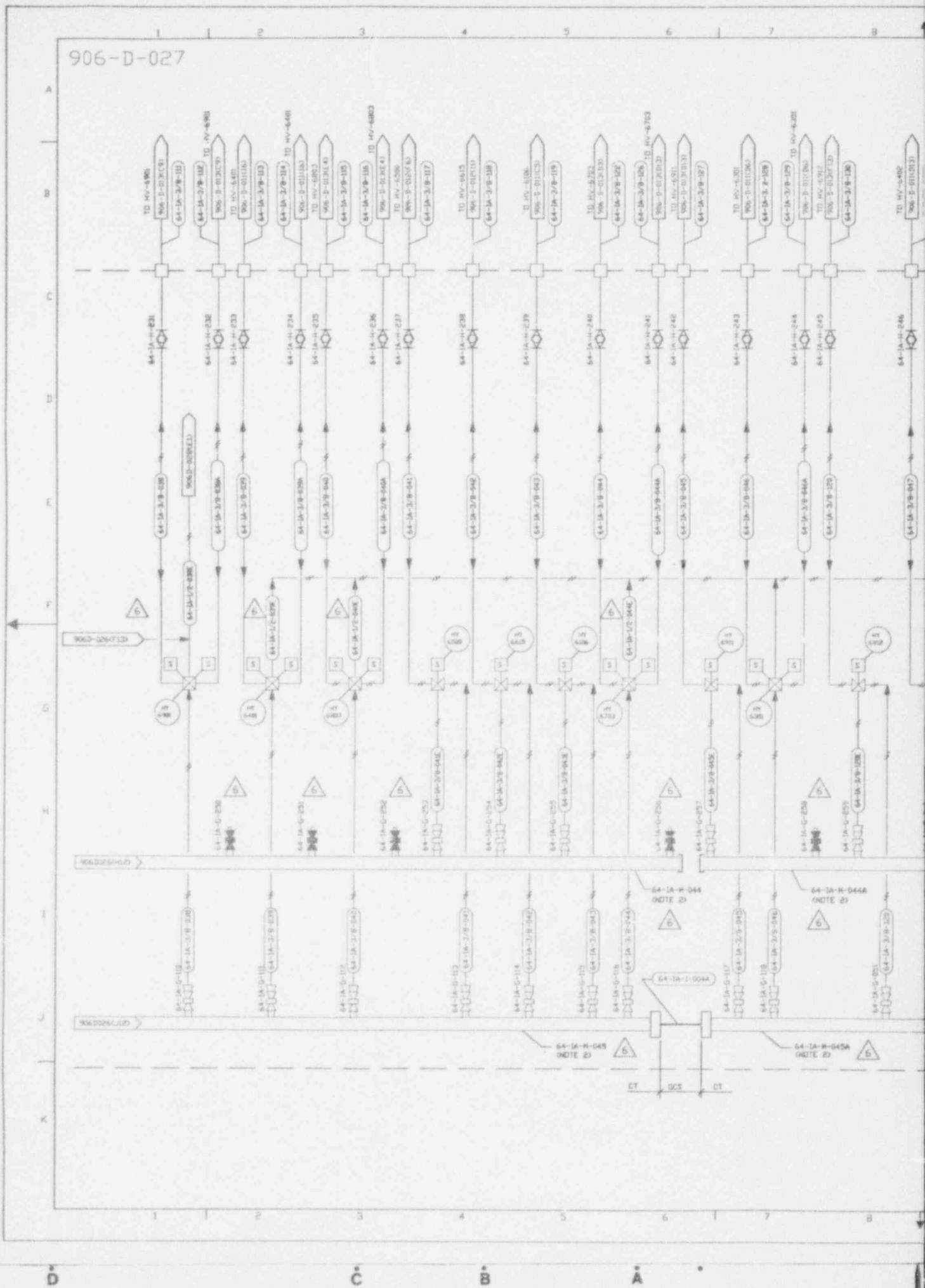
CAUTION CURRENT AS OF OCT 14 1993

CHECK DOCUMENT CONTROL FOR LATEST REVISION.

9401180105-27

APPROVED BY: [Signature]	DATE: 09-02-93	PROJECT NO: 906D-026	SCALE: AS SHOWN
PROJECT: VITRIFICATION FACILITY EX-CELL OFF-GAS P & ID INSTRUMENT RACK 1-C08 (SHEET 1)	ENGINEER: J. KLEIN	DATE: 09-02-93	PROJECT NO: 906D-026
DESIGN: R. J. LEWIS	CHECKED: V. SHAWHAN	DATE: 09-02-93	PROJECT NO: 906D-026
DRAWN: R. J. LEWIS	DATE: 09-02-93	PROJECT NO: 906D-026	PROJECT NO: 906D-026
ISSUES FOR CONSTRUCTION:	DATE: 09-02-93	PROJECT NO: 906D-026	PROJECT NO: 906D-026

906-D-027



NO.	DATE	REVISION	DR	CH	APPROVED
0	9/24/91	FR 2193			JRH
1	10/7/91	GEN REV PER ECN 4353	LRK	HAB	BL GERMOND
2	4/15/92	REV PER ECN 5095	CCR	HAB	BL GERMOND
3	06/16/92	REV PER ECN 5051 & 5250	SRC	HAB	BL GERMOND
4	12/9/92	GEN REV PER ECN 5698	SRD	HAB	LED BLERMOO
5	03/15/93	REV PER ECN 5997	DAK	HAB	JHK
6	9/3/93	REV PER ECN 6598	AAJ	<b>HB</b>	<b>AAJ</b>

**NOTES:**

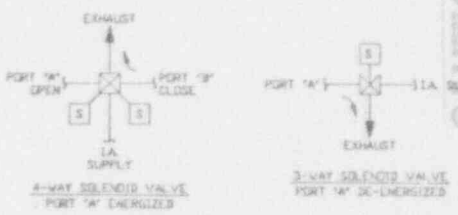
- 1. FOR NOTES AND REFERENCE DRAWINGS SEE 906-D-025
- 2. ACTUAL LOCATION OF MANIFOLD VALVES, SEE DWGS 900D-4842 AND 906D-072.



**SI  
APERTURE  
CARD**

Also Available On  
Aperture Card

**LEGEND:**



**CAUTION**

CURRENT AS OF

OCT 14 '93

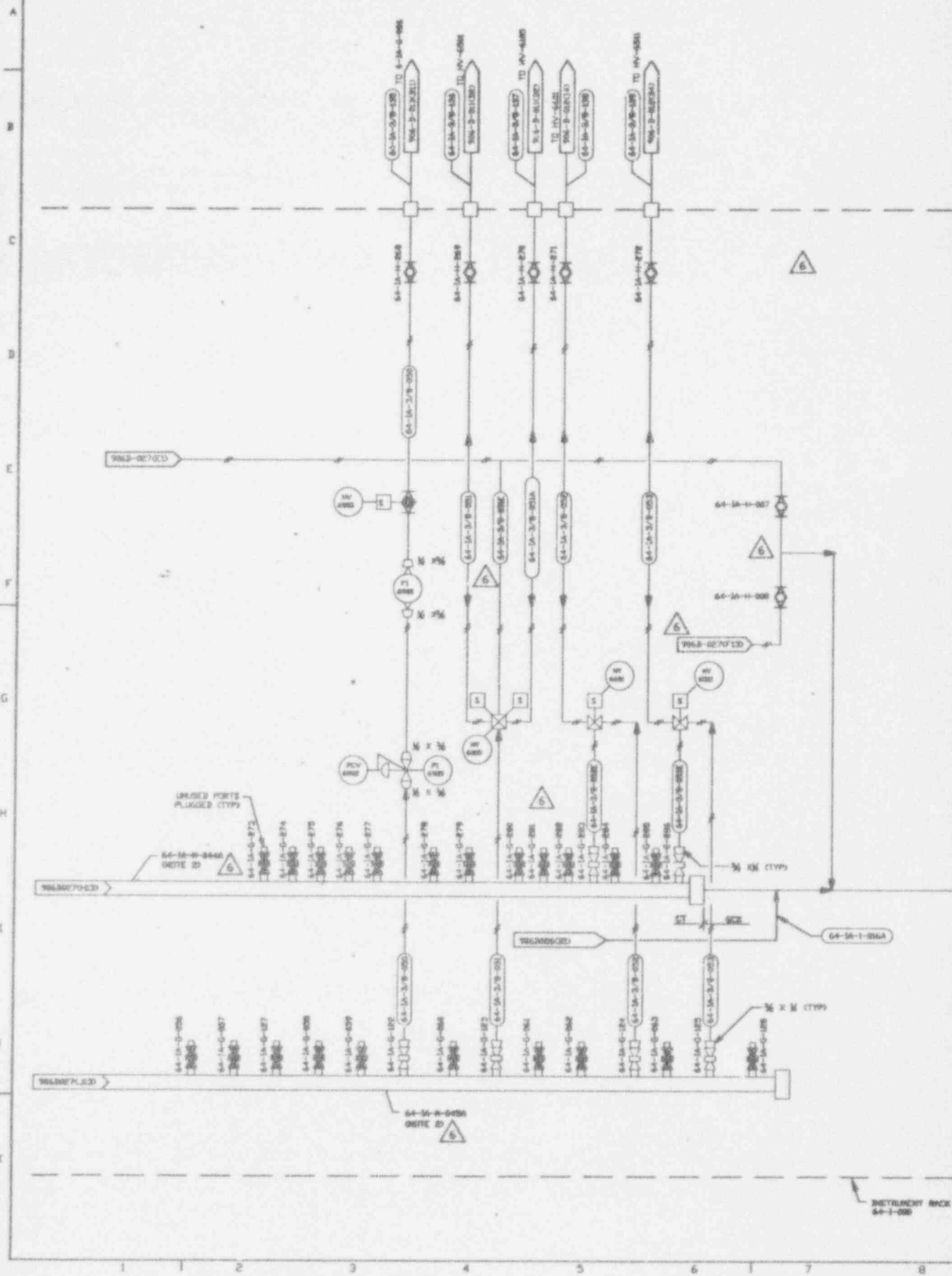
CHECK DOCUMENT CONTROL  
FOR LATEST REVISION.

**9401180105-28**

APPROVED WORKING COPY		EASCO SERVICES INCORPORATED AVE DTS RD 208E	
PROJECT MGR P. J. E. STUREY	2-87-9	TASK ORDER 025	
ENGINEER SURV J. KLEIN	2-87-9	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
LEAD ENG ENGR S. NATH	2-87-9	WEST VALLEY DEMONSTRATION PROJECT	
DESIGN R. J. LEVRO	2-87-9	VITRIFICATION FACILITY EX-CELL OFF-GAS P & ID INSTRUMENT RACK 1-00B (SHEET 2)	
CHECKED V. SWANBERG	2-87-9		
DRAWN R. J. LEVRO	2-87-9		
DE-MS7-90244139	SIZE	INDEX CODE NUMBER	DRAWING NO.
PROJECT NO.	19-CW-9-025	906D-027	6
SUBCONTRACT NO.	ISSUED FOR CONSTRUCTION	SCALE NONE	AVE SHEET NO. 906-D-027

FILE NAME: 906D-027  
PLOT NO: 94-027  
DATE: 10/14/93

906-D-028

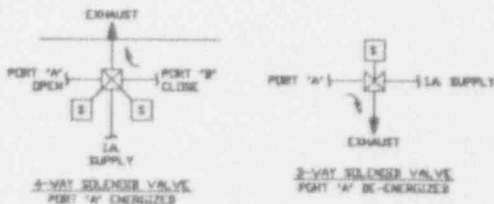


NO.	DATE	REVISION	DR	CH	APPROVED
0	9/24/91	ER 2193			JRH
1	10/7/91	GEN REV PER ECN 4553	LRK	HAB	BL GERMOND
2	4/15/92	REV PER ECN 5095	CGR	HAB	BL GERMOND
3	06/16/92	REV PER ECN 5251 & 5252	SRC	HAB	BL GERMOND
4	12/9/92	GEN REV PER ECN 5698	SRD	HAB	LED BL GERMOND
5	03/15/93	REV PER ECN 5997	DAK	HAB	JRK
6	9/3/93	REV PER ECN 6598	AAJ	JRH	JRH

NOTES:

- FOR NOTES AND REFERENCE DRAWINGS SEE 906-D-025
- ACTUAL LOCATION OF MANIFOLD VALVES, SEE DWGS 900D-4842 AND 906D-072.

LEGEND:



SI  
APERTURE  
CARD

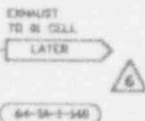
Also Available On  
Aperture Card

CAUTION

CURRENT AS OF

OCT 14 '93

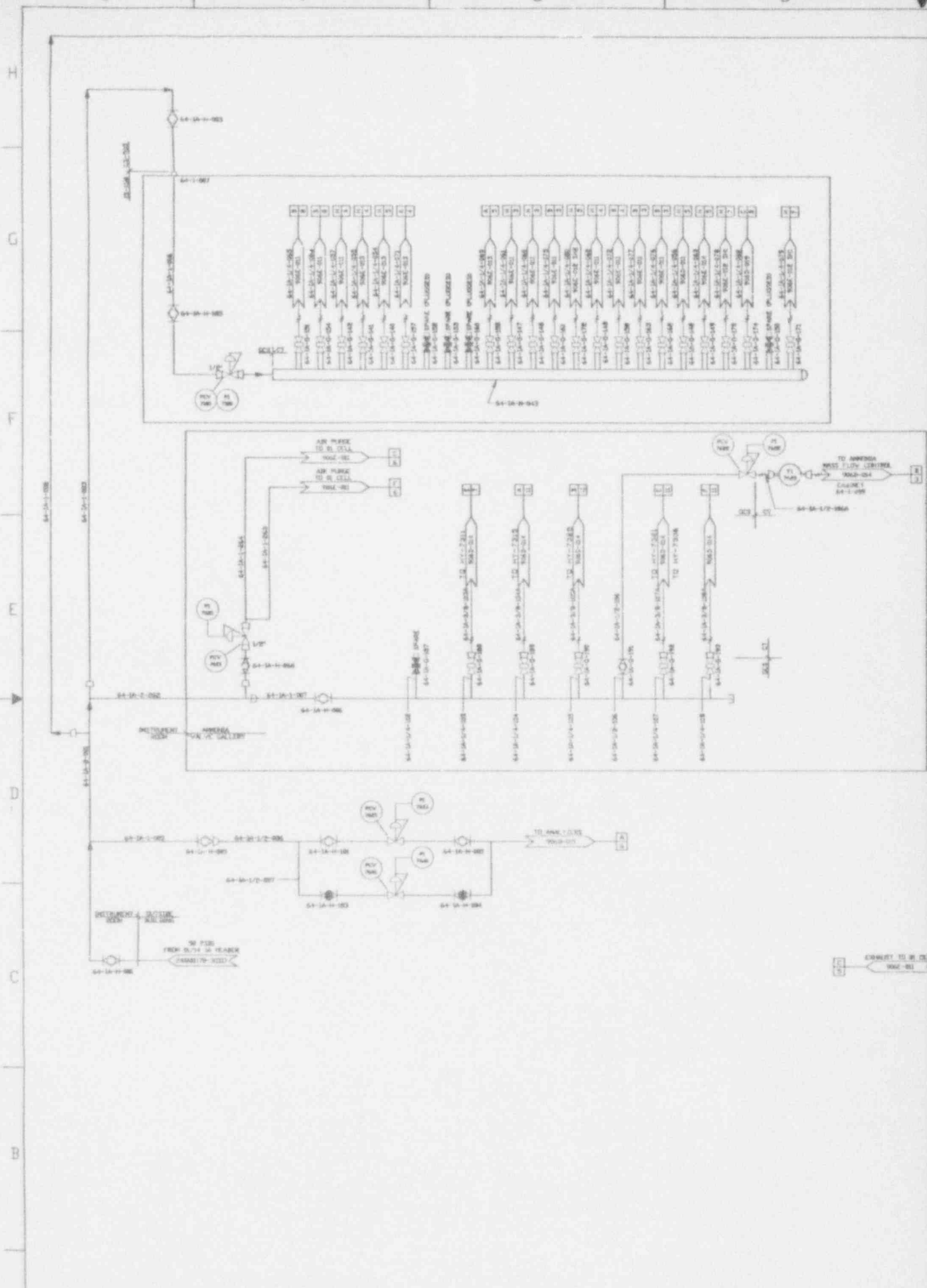
CHECK DOCUMENT CONTROL  
FOR LATEST REVISION.



9401180105 - 29

APPROVED BY/DATE		E BASCO SERVICES INCORPORATED	
PROJECT MGR	F. J. E. STONEY	A/E D/F/S	NO. 2398
ENGINEER SUPV	J. NELEN	TASK ORDER	003
LEAD DESIG ENGR	S. NATH	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
DESIGN	R. J. LEVINE	WEST VALLEY DEMONSTRATION PROJECT	
CHECKED	V. SHORRMAN	VITRIFICATION FACILITY EX-CELL OFF-GAS P & ID INSTRUMENT RACK I-008 (SHEET 3)	
DRAWN	R. J. LEVINE	DATE	08-93
DE-AC07-R04E44179	PROJECT NO.	SCALE	NONE
19-CWV-00275	SUBCONTRACT NO.	DRAWING NO.	906D-028
ISSUED FOR CONSTRUCTION	SCALE	REV.	6
		A/E SHEET NO.	906-D-028

FILE NUMBER: 180001140  
PLOT FOR NO. 5.5. 08120-07-93



REV	DATE	BY	CHKD	DESCRIPTION
1	03/15/74	W. J. ...	...	...
2	03/15/74	...	...	...
3	03/15/74	...	...	...
4	03/15/74	...	...	...
5	03/15/74	...	...	...
6	03/15/74	...	...	...

CONNECT TO ...  
64-10-1-001



Section 1.3.1 Vitrification Facility

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905-D-030	Sht:001	Rev:008	Title: General arrangement vitrification facility plan EL 100'
-----------	---------	---------	--

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905-D-030	Sht:002	Rev:000	Title: VF GENERAL ARRANGEMENT FUEL OIL STORAGE
-----------	---------	---------	--

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905-D-032	Sht:001	Rev:005	Title: General arrangement vitrification facility plan EL 110.25'
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905-D-032	Sht:002	Rev:001	Title: VF CONTROL ROOM GENERAL ARRANGEMENT
-----------	---------	---------	--

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905-D-034	Sht:001	Rev:004	Title: General arrangement vitrification facility plan EL 124' & above
-----------	---------	---------	--

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905-D-038	Sht:001	Rev:004	Title: General arrangement vitrification facility sections
-----------	---------	---------	--

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905-D-040	Sht:001	Rev:002	Title: General arrangement vitrification facility plan EL 146.25' & roof
-----------	---------	---------	--

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Section 1.3.2 Tank Farm

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900-D-2860	Sht:001	Rev:001	Title: SMS Utilities to pump/dist. pits general arrangement
------------	---------	---------	---

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904-D-060	Sht:001	Rev:005	Title: SMS HLW transfer piping
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904-D-060	Sht:002	Rev:005	Title: SMS HLW transfer piping
-----------	---------	---------	--------------------------------

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904-D-060	Sht:003	Rev:005	Title: SMS HLW transfer piping
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904-D-060	Sht:004	Rev:006	Title: SMS HLW transfer piping
-----------	---------	---------	--------------------------------

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904-D-060	Sht:005	Rev:010	Title: SMS HLW transfer piping
-----------	---------	---------	--------------------------------

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Section 1.3.3 High Level Waste Storage

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905-D-031	Sht:001	Rev:001	Title: General arrangement vitrification facility EDR, CPC plan EL 100'
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905-D-033	Sht:001	Rev:001	Title: General arrangement vitrification facility EDR CPC plan EL 117'
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## Section 1.3.4 Ex-cell Off-gas 0-14 Building

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906-D-030 Sht:001 Rev:006 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING 98'

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906-D-030 Sht:002 Rev:001 Title: VF GENERAL ARRANGEMENT NOX TRENCH

---

906-D-030 Sht:003 Rev:001 Title: VF GENERAL ARRANGEMENTS 01/14 BUILDING PLAN EL 98'

---

906-D-031 Sht:001 Rev:005 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
116.59'

---

906-D-032 Sht:001 Rev:005 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
130'

---

906-D-033 Sht:001 Rev:005 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
144'

---

906-D-034 Sht:001 Rev:005 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
SECTION

---

906-D-035 Sht:001 Rev:006 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
SECTION

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906-D-036 Sht:001 Rev:003 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
PLAN EL 158' ROOF PLAN

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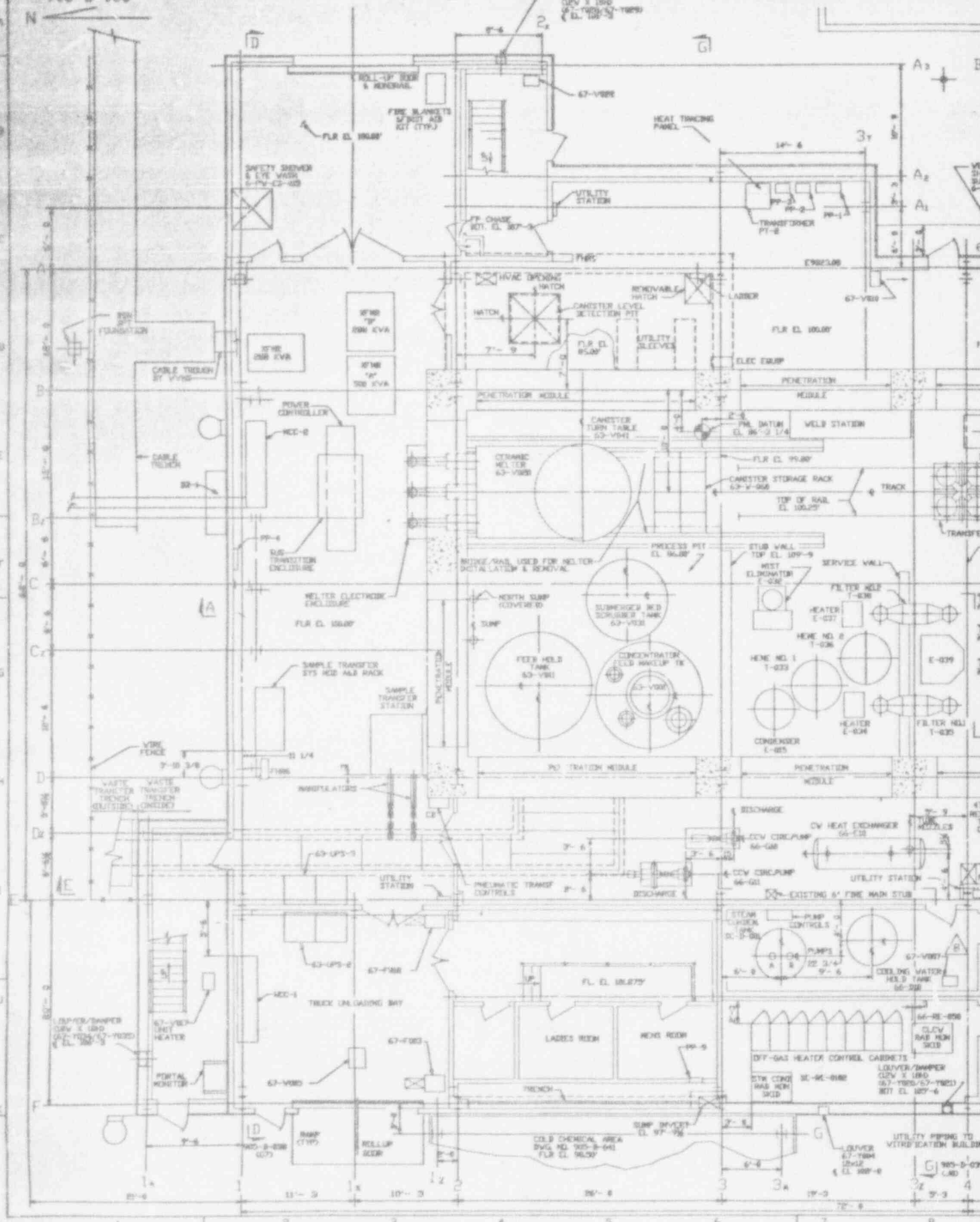
906-D-037 Sht:001 Rev:006 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
PLAN EL 124'

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906-D-038 Sht:001 Rev:006 Title: VF MELTER OFF-GAS GENERAL ARRANGEMENTS 01/14 BUILDING  
SECTION

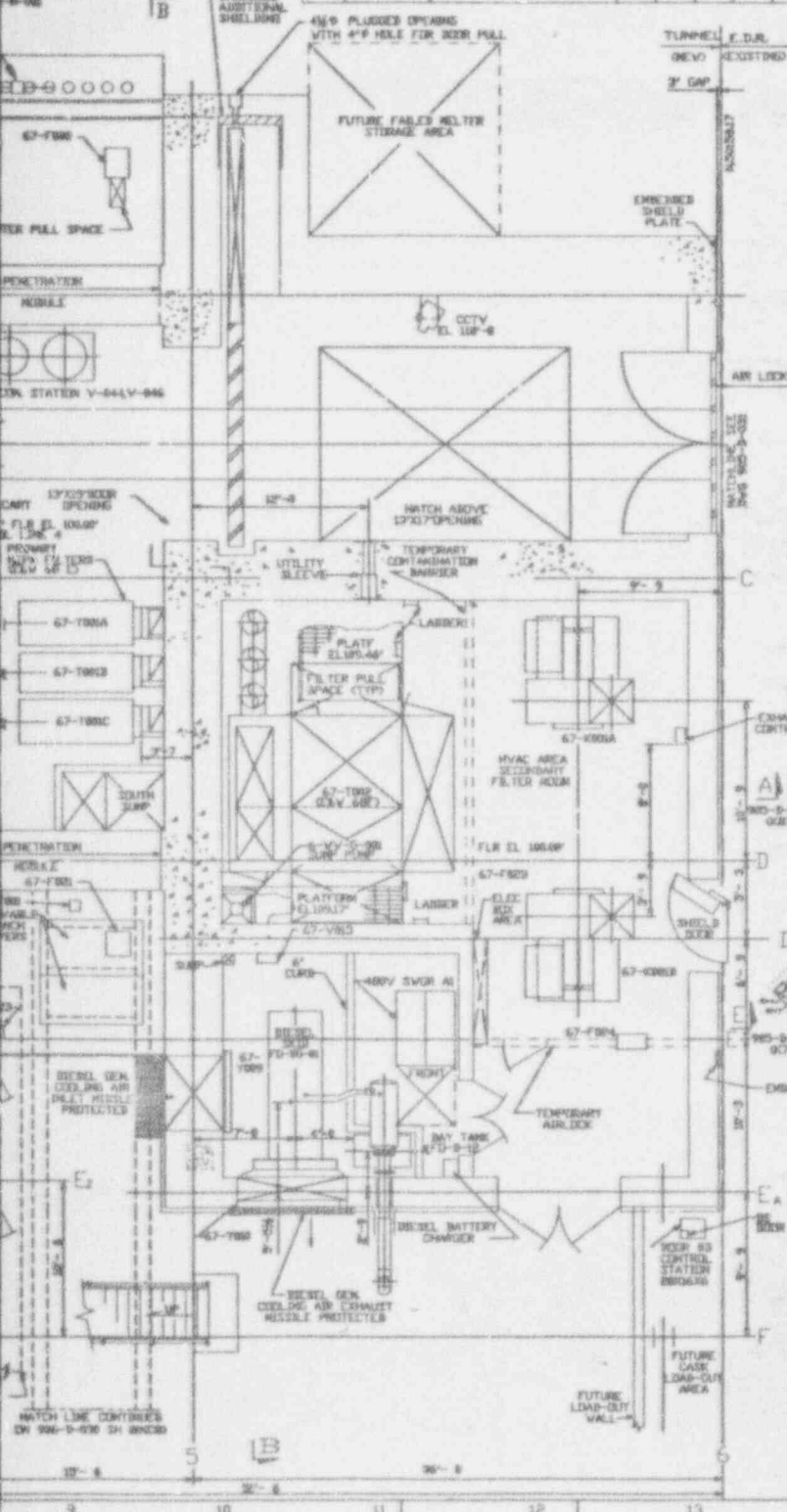
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905-D-030



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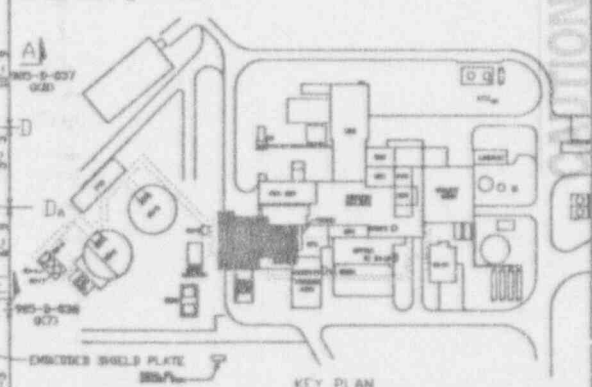
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G	04-20-88		R.A.	F.S.K.	R.A. F.S.K.	F	11-11-86		R.A.	F.S.K.	R.A. F.S.K.
GENERAL REVISION						GENERAL REVISION					
H	7-13-89	ER 1646		JRH		C	04-21-87		T.K.	T.R.	R.A. F.S.K.
GENERAL REVISION						GENERAL REVISION PER EBAR 851A DATED 3-19-87					
I	9/03/93	ECN 6468	JLH			D	11-04-07		T.K.	S.E.	R.A. F.S.K.
GENERAL REVISION						GENERAL REVISION PER TA-612					
J	9/10/91	ECN 4375	DAK	DRS	ZR	E	04-21-80		T.K.	N.S.	R.A. F.S.K.
GENERAL REVISION						GENERAL REVISION PER TA-688 & 724					
K	10/20/92	ECN 5112	JLH	HAB	GFB	F	11-27-88		BFR	CA	R.A. F.S.K.
GENERAL REVISION						GENERAL REVISION PER EBAR NO. 1147					
L	11/18/92	ECN 5684	DAK	HAB	GFB						
M	12/15/92	ECN 5768, 5777	L.R.K.	HAB	R.V.R.						
N	1/13/93	ECN 5798	H.J.A.	DRS	SP						
O	1/25/93	ECN 5325	H.J.A.	DRS	PAN						



- NOTES
- FOR NOTES LEGEND AND REFERENCE DRAWINGS SEE 905-D-030
  - FOR CELL INTERIOR SEE DRAWING PNL-240-01 THRU-20 AND PNL-300-01, 02, 03.

SI  
APERTURE  
CARD

Also Available On  
Aperture Card



APPROVED BY		E.B.A.S.C.O. SERVICES INCORPORATED	
PROJECT MGR. M. L. VEINGART		A/E D.F.S. NO. 2308 TASK ORDER 905-	
ENGINEER SUPV. F. KIDWALCZYK		FOR WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
LEAD SSC ENGR. F. KIDWALCZYK		WEST VALLEY DEMONSTRATION PROJECT	
DRAWN BY R. J. LEWKO		GENERAL ARRANGEMENT VITRIFICATION FACILITY PLAN EL. 100.00'	
CHECKED BY T. J. PIAZZA		DRAWING NO. 905-D-030	
DATE 08-15-86		REV. 8	
PROJECT NO. 19-CVV-50275		SCALE 3/16"=1'-0"	
ISSUED FOR CONSTRUCTION		SHEET NO. 8	

9401180105-31

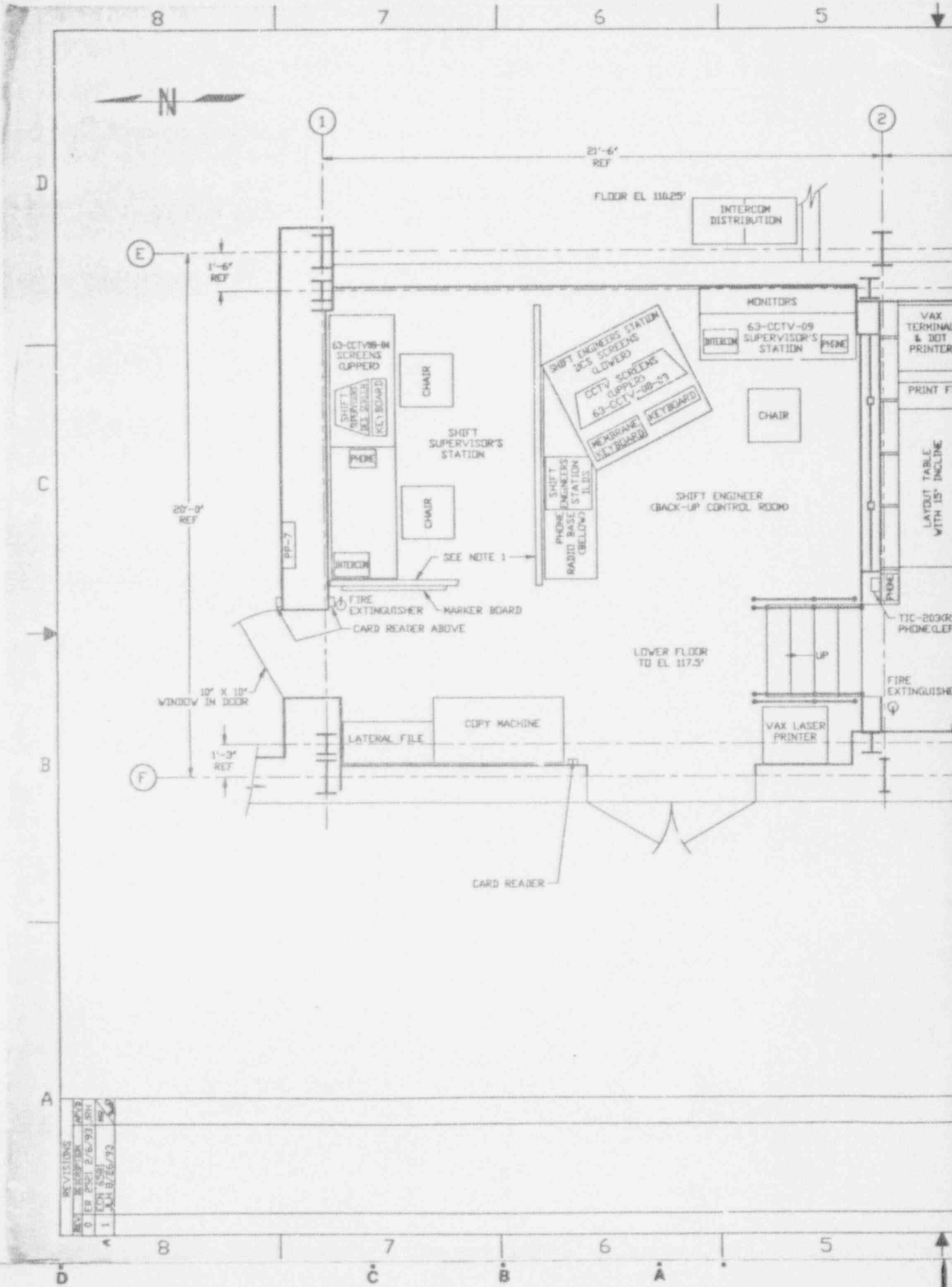
CHECK DOCUMENT CONTROL FOR LATEST REVISION

CURRENT AS OF

OCT 1 4 1993

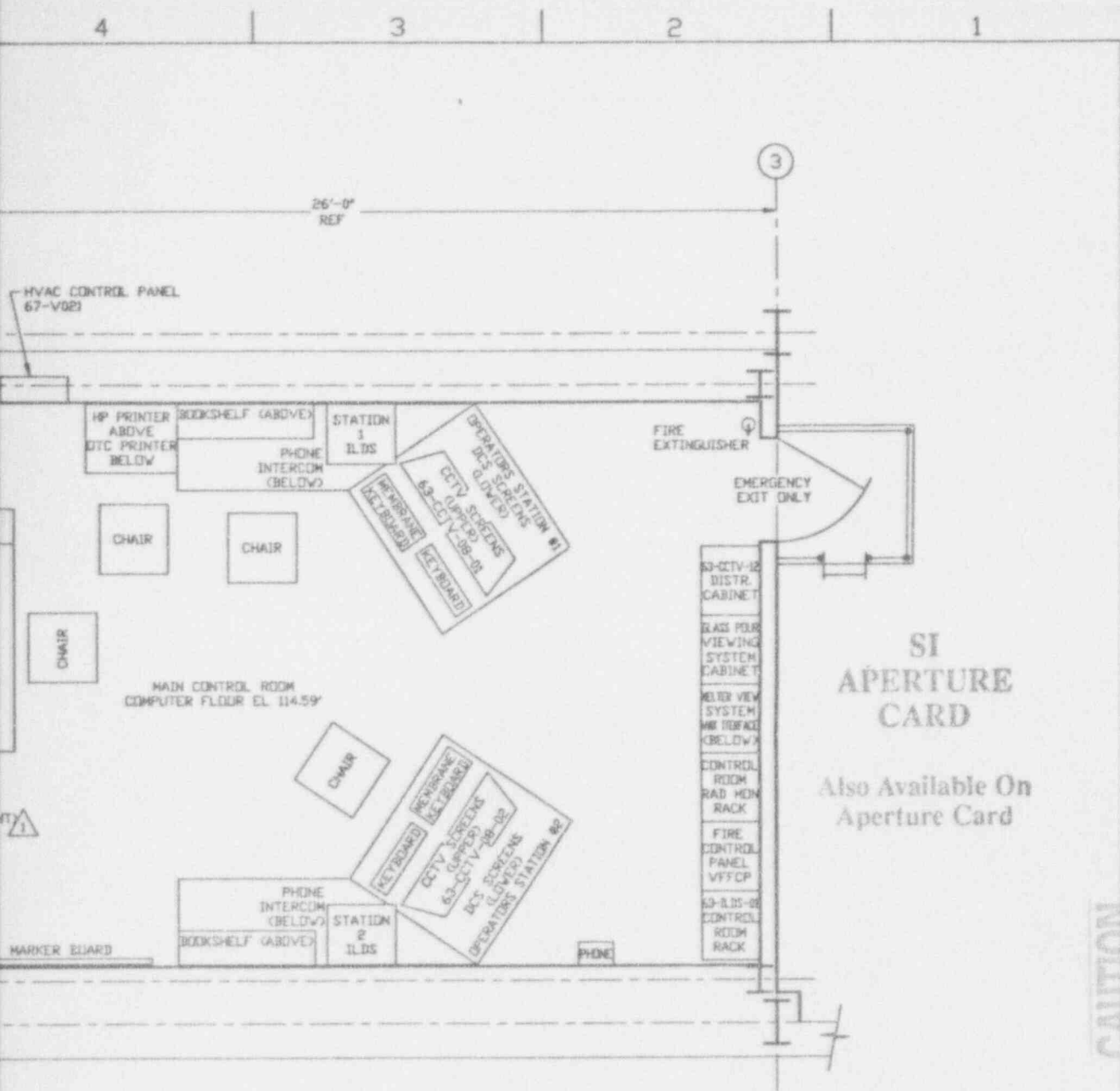






REV	DATE	BY	CHKD
0	2/16/93	EDH	EDH
1	5/18/93	EDH	EDH

REVISIONS



CAUTION CURRENT AS OF OCT 14 '93

CHECK DOCUMENT CONTROL FOR LATEST REVISION.

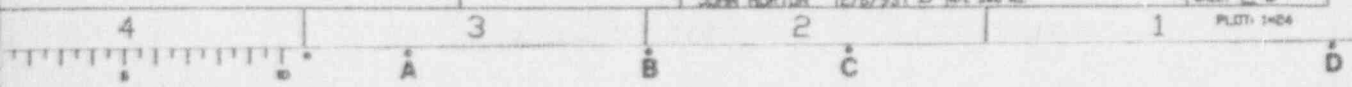
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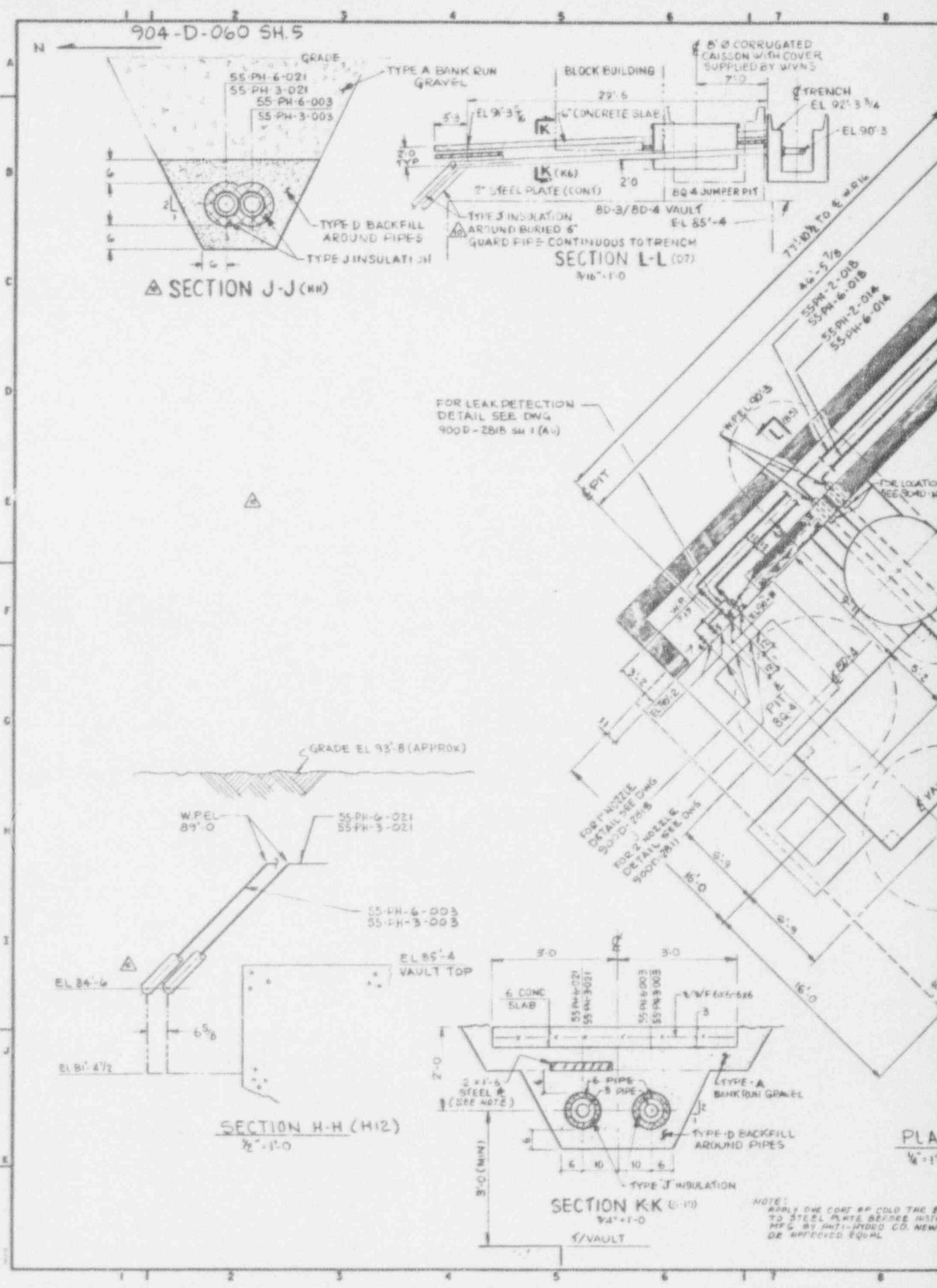
REFERENCE DRAWINGS  
GENERAL ARRANGEMENT VIT FACILITY PLAN EL 110.25' 905D-032

NOTES:  
1 SHIFT SUPERVISOR'S OFFICE TO BE 6'-0" HIGH OFFICE TYPE DIVIDERS.

QTY	ITEM	DESCRIPTION	REVISIONS OR IDENTIFYING NO.	PART OR IDENTIFYING NO.	MATERIAL OR SPEC.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED	DESIGNER	DATE	REV	CONTRACT NO.	ONE SHEET NO.
ALL DIMS IN INCHES	B. PORTER	1/6/93			
TOLERANCES-DO NOT SCALE	FL BARKER	2/4/93			
0 PL DEC 3 PL DEC	GARY G. TOMASKI	2/4/93			
1 N/A 1 N/A	COLLEGE APPROV	DATE			
1 N/A 1 N/A	T.E. COTTRELL	2/4/93			
0 SPECIAL 2110	DATE APPROV	DATE			
NEAT ASSEMBLY	P.P. WILLEMS	2/4/93			
	JOHN HORTON	2/6/93			
				SCALE 1/2" = 1'-0"	REV NO.
				DWG NO.	905D-032
				REV	1
				SHEET	2 OF
				PLOT: 1404	

CAD DRAWING-DO NOT REUSE THIS ORIGINAL

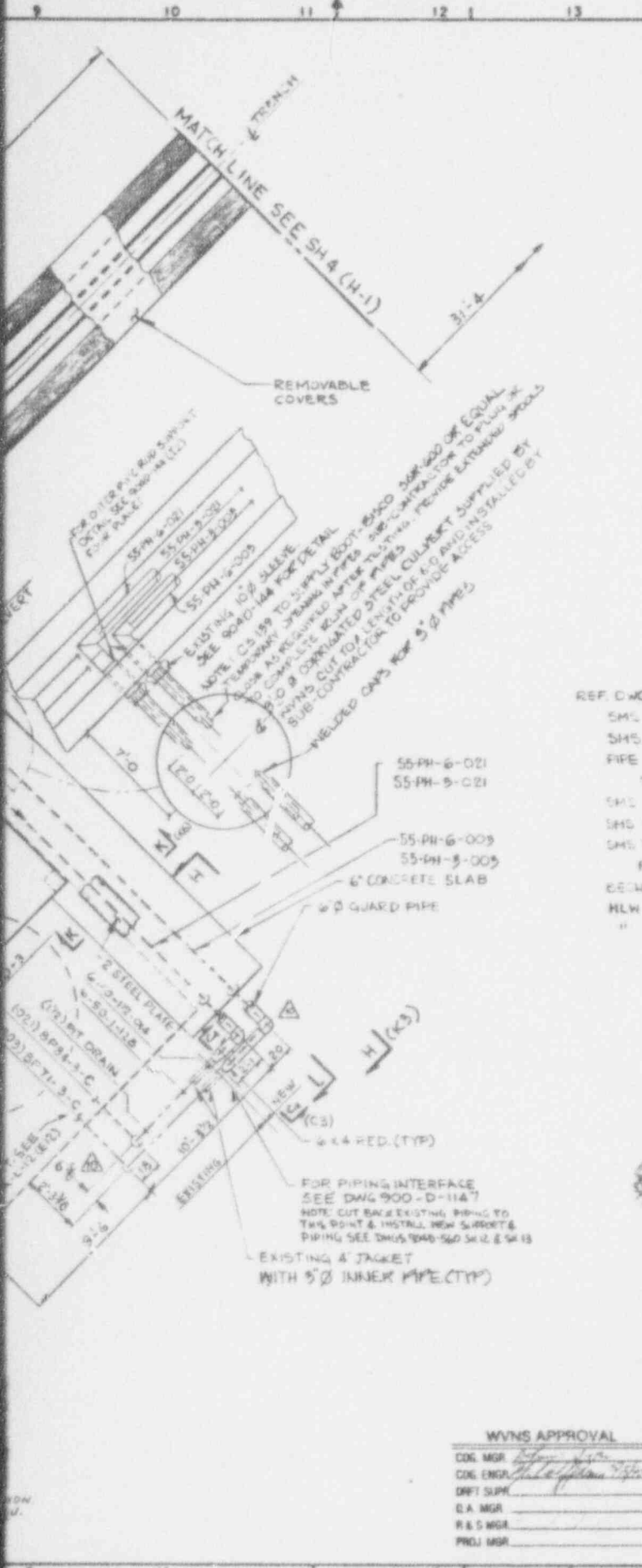




NOTE:  
APPLY ONE COAT OF COLD TACK TO STEEL PLATE BEFORE INSTALLING AN ANTI-RUST CO. NEW OR DEFFECTED EQUAL

PLA  
1/4" - 1'-0"



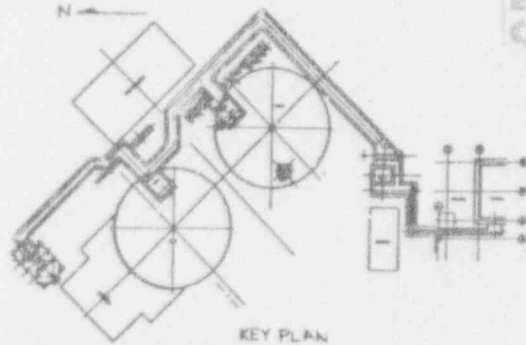


REV NO	DATE	REVISION	DR	CH	APPROVED
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GENERAL REVISION					
C	4/1/90		AV	REL	REL
GENERAL REVISION					
0	6/8/90	ER1974			
1	7-2-90	REV PER EGN 31345	CKW	HAS	JW
2	10-15-90	REV PER EGN 3030	GW	HAS	JW
3	11/9/90	REV PER EGN 4022	KKG	HAS	JW
4	5-4-92	GEN REV PER EGN 4831	PD	HAS	JW
5	6-1-92	REV PER EGN 5115	PKM	HAS	JW
6	8-10-92	REV PER EGN 5163	PD	HAS	JW
7	4-27-93	GEN REV PER EGN 6059	PD	HAS	JW
8	6-18-93	REV PER EGN 6091	PD	HAS	JW
9	9-8-93	REV PER EGN 6180	PKM	HAS	JW
10	9-27-93	REV PER EGN 6647A	PD	HAS	JW

SI  
APERTURE  
CARD

Also Available On  
NOTE Aperture Card  
FOR GENERAL NOTES & REFERENCE DRAWINGS  
SEE 904-D-060 SH-1

- REF. DWGS:
- SMS HLW TRANSFER PIPING 904D-060 SH 4
  - SMS TRENCH PLAN & DETAILS SH 4 904D-144
  - PIPE ROUTING TRENCH LET FROM VALVE AISLE TO 8D-3 900D-1147 SH 1
  - SMS 2" HORIZ. 2 NOZZLE WALL EMERGENT 900D-2811
  - SMS TRANSFER FIT 42-4 1" WALL NOZZLE SHEEL 900D-2815
  - SMS TRANSFER LINE LEAK DETECTION PIPING 900D-2818
  - PLANE SECTIONS
  - CEMENT LINED WASTE STORAGE TANKS 8A-L-12
  - HLW TRANSFER PROCESS PIPING SUPPORT LOCATIONS 904D-560 SH 2
  - " " " " " " 904D-560 SH 13



FOR DRAWING INDEX SEE DRAWING NO.

APPROVED WNS CO.	EBASCO SERVICES INCORPORATED A/E G.P.S. NO. 2288 TRAC ORDER 015	
PROJECT MGR	WEST VALLEY NUCLEAR SERVICES COMPANY, INC WEST VALLEY, NEW YORK	
ENGINEER SUPERVISOR	WEST VALLEY DEMONSTRATION PROJECT SLUDGE MOBILIZATION SYSTEM HLW TRANSFER PIPING	
LAND DIVISION ENGINEER	DESIGNER: S. ELIA DATE: 10/2/93	
DESIGNER	CHECKED: A. VIRGO	
DRYER	SCALE: AS SHOWN	
DESIGN NO.	PROJECT NO.	DRAWING NO.
19-CW-00275	19-CW-00275	904D-06010
SUBCONTRACT NO.	ISSUED FOR CONSTRUCTION	SCALE: AS SHOWN
		DATE: 10/2/93

WNS APPROVAL

COG MGR: [Signature]  
COG ENGR: [Signature]  
DRY SUPP: [Signature]  
D.A. MGR: [Signature]  
R & S MGR: [Signature]  
PROJ MGR: [Signature]

CAUTION  
CURRENT AS OF

OCT 14 1993

CHECK DOCUMENT CONTROL  
FOR LATEST REVISION

9401180105-34

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DATE: [Illegible]

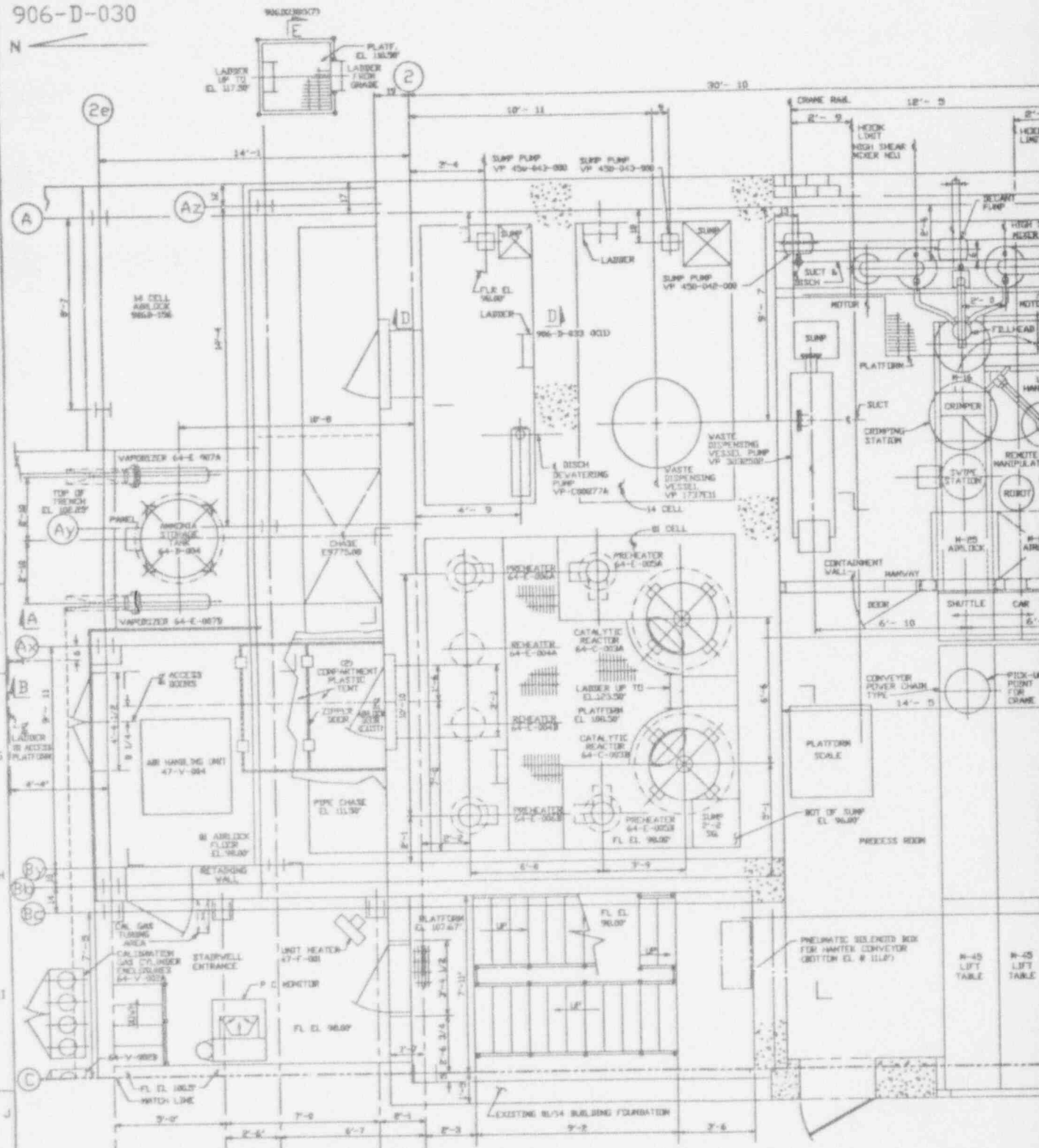
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SHEET: [Illegible]

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DATE: [Illegible]

906-D-030

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B  
C  
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J  
K

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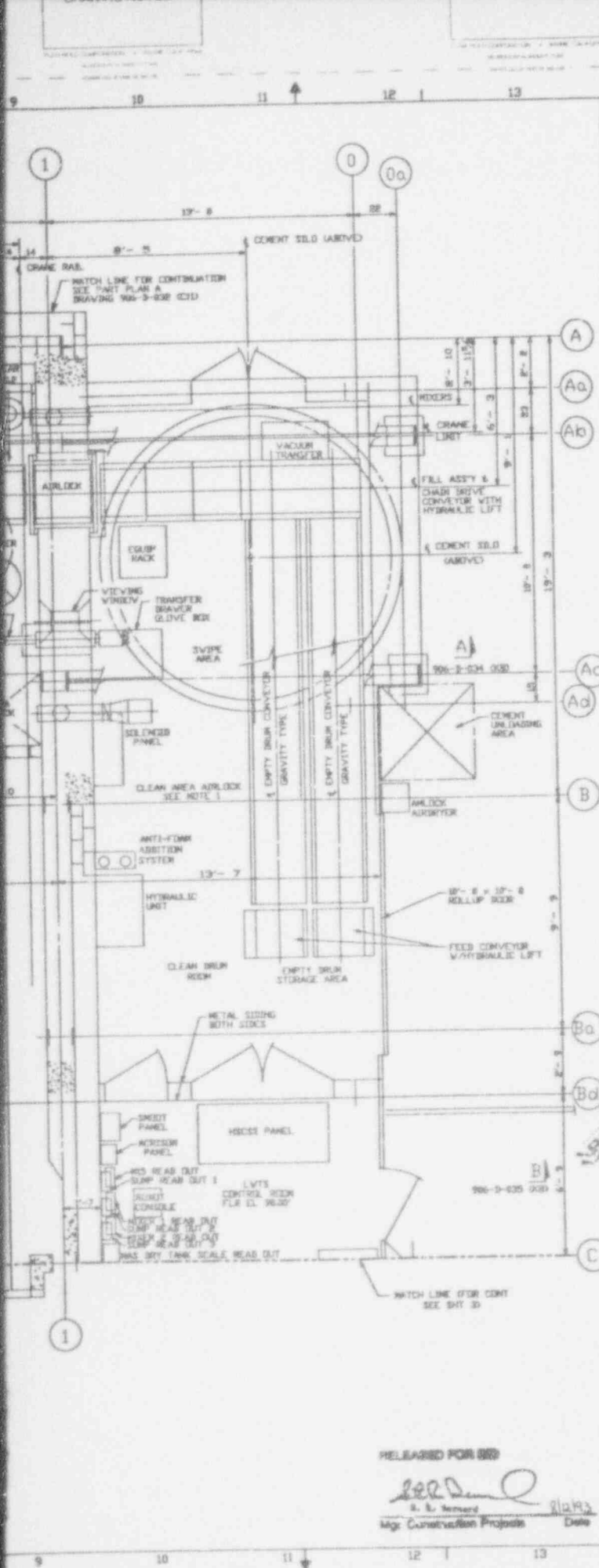


PLAN EL. 98.00'

2e 2d 2b 2a 2

C B A

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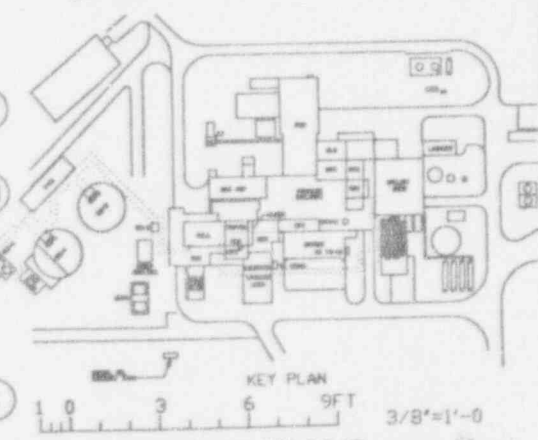


NCL	DATE	REVISION	DR	CH	APPROVED
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GENERAL REVISION					
C	12-07-90		YB	DAE	R.A. FSK F.S.S.
GENERAL REVISION					
0	9-24-91	ER 2193			JRH
1	12-2-91	ECN 4696	DAK	HAB	RPV
2	03-02-93	ECN 5996	SRC	KMG	RM
3	03-22-93	ECN 6104	DAK	HAB	JHK
4	05-06-93	GEN REV/ECN 6323	JLH	DRS	JHK
5	05-14-93	ECN 6290	H.JL	HAB	DJR
6	07-19-93	GEN REV/ECN 6524	WCK	DAE	JRH

**NOTES**  
 1. THESE GENERAL ARRANGEMENTS 906-D-030 THRU 035 SUPERSEDE EBASCO GENERAL ARRANGEMENTS 902-D-030 THRU 038 IN THEIR ENTIRETY.

**REFERENCE DRAWINGS**

GENERAL ARRANGEMENT-01/14 BUILDING PLAN EL 116.50'	906-D-031
GENERAL ARRANGEMENT-01/14 BUILDING PLAN EL 130.00' & SECTIONS	906-D-032
GENERAL ARRANGEMENT-01/14 BUILDING PLAN EL 144.00' & SECTIONS	906-D-033
GENERAL ARRANGEMENT-01/14 BUILDING SECTIONS	906-D-034
GENERAL ARRANGEMENT-01/14 BUILDING SECTIONS	906-D-035
CHANGE ROOM EXTENSION ARRGT&FDNS	900-D-037 900-D-038
TRUCK LOADOUT EXTENSION ARRGT&FDNS	900D-1380 900D-1479 900D-1480
LVTS CONTROL ROOM EXTENSION ARRGT'S	900D-1180 900D-1385
01/14 BLDG EXISTING FOUNDATIONS	2401-01-901-2
OFF-GAS TRENCH ARRGT	906-D-030 SH2
SHOWER/EYE WASH STATION	906-D-083 SH1
FIRE WATER LINES	900-D-253 900D-4464 SH1 15R-L-01 900D-4398 SH1
CATCH BASINS	906D-430 THRU 906D-436
HVAC PLANS 01/14 BLDG	
PANTEX CONVEYOR CONTROL ENCL	906D-1512
STAIRWELL @ EL 98'-0"	906D-121



FOR DRAWING INDEX SEE DRAWING NO.

APPROV'D BY	DATE	PROJECT NO.	DATE
PROJECT MGR	06-09-90	ENGINEER SUPV	06-09-90
LEAD DESIG ENGR	06-09-90	DRAWN BY	06-09-90
CHECKED BY	06-09-90	DATE	06-09-90
ISSUED FOR CONSTRUCTION		SCALE	3/8"=1'-0"

EBASCO SERVICES INCORPORATED  
 AVE OF SHELTON TASH ORDER 002

WEST VALLEY NUCLEAR SERVICES COMPANY, INC  
 WEST VALLEY, NEW YORK

WEST VALLEY DEMONSTRATION PROJECT  
 VITRIFICATION FACILITY  
 GENERAL ARRANGEMENT  
 01/14 BUILDING PLAN EL 98.00'

PROJECT NO.	906-D-030	REV.	6
ISSUED FOR CONSTRUCTION	SCALE	3/8"=1'-0"	DATE

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 APERTURE  
 CARD

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 Aperture Card

**CAUTION**  
 CURRENT AS OF  
 OCT 14 1993  
 CHECK DOCUMENT CONTROL  
 FOR LATEST REVISION.

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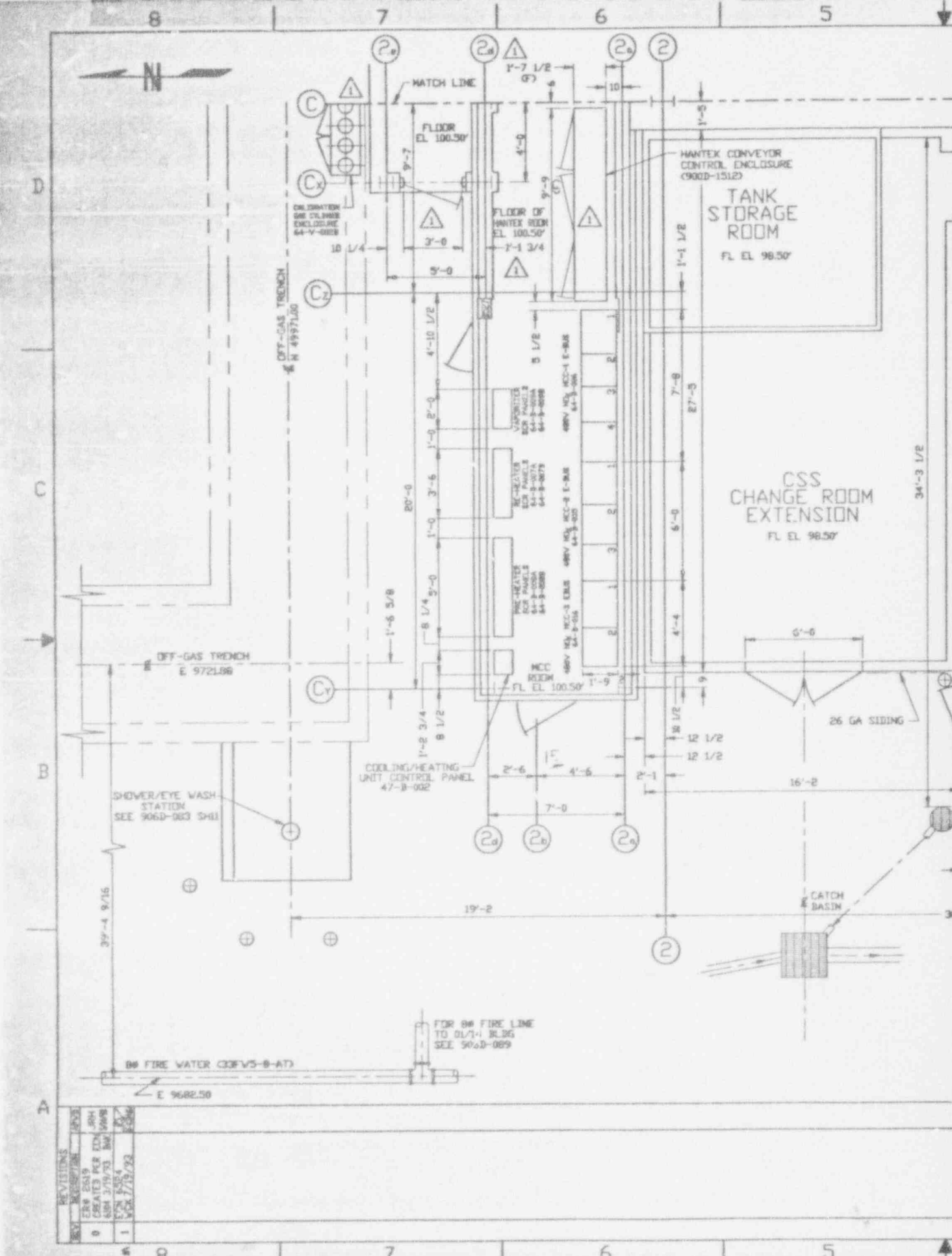
*[Signature]*  
 Date

9401180105-35

1 - WAVE CAL. 1/4" MINIMUM

PLAN-HOLD COMPONENT - WAVE CALIFORNIA  
 DESIGNER: HANDEY/STARR  
 CHECKED BY: HANDEY/STARR  
 DATE: 01/19/73

PLAN-HOLD COMPONENT - WAVE CALIFORNIA  
 CHECKED BY: HANDEY/STARR  
 DATE: 01/19/73



NO.	REVISIONS	DATE	BY
0	CREATED PER EDC	01/19/73	BM
1	REVISED	01/19/73	BM

8" FIRE WATER COFV5-B-A7)  
 E 9682.50

FOR 8" FIRE LINE  
 TO 01/1-1 BLDG  
 SEE 906D-089

CSS  
 CHANGE ROOM  
 EXTENSION  
 FL EL. 98.50'

HANTEX CONVEYOR  
 CONTROL ENCLOSURE  
 (906D-1512)  
 TANK  
 STORAGE  
 ROOM  
 FL EL. 98.50'

COOLING/HEATING  
 UNIT CONTROL PANEL  
 47-B-002

SHOWER/EYE WASH  
 STATION  
 SEE 906D-063 SH1

OFF-GAS TRENCH  
 E 972L98

OFF-GAS TRENCH  
 N 4997J06

FLOOR  
 EL. 100.50'

FLOOR OF  
 HANTEX ROOM  
 EL. 100.50'

MCC ROOM  
 FL EL. 100.50'

HEATER RACK-1  
 SCR PANEL 2  
 64-B-001A  
 64-B-001B

HEATER RACK-2  
 SCR PANEL 2  
 64-B-002A  
 64-B-002B

HEATER RACK-3  
 SCR PANEL 2  
 64-B-003A  
 64-B-003B

MCC-1  
 64-B-004

MCC-2  
 64-B-005

MCC-3  
 64-B-006

MCC-4  
 64-B-007

MCC-5  
 64-B-008

MCC-6  
 64-B-009

MCC-7  
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 64-B-194

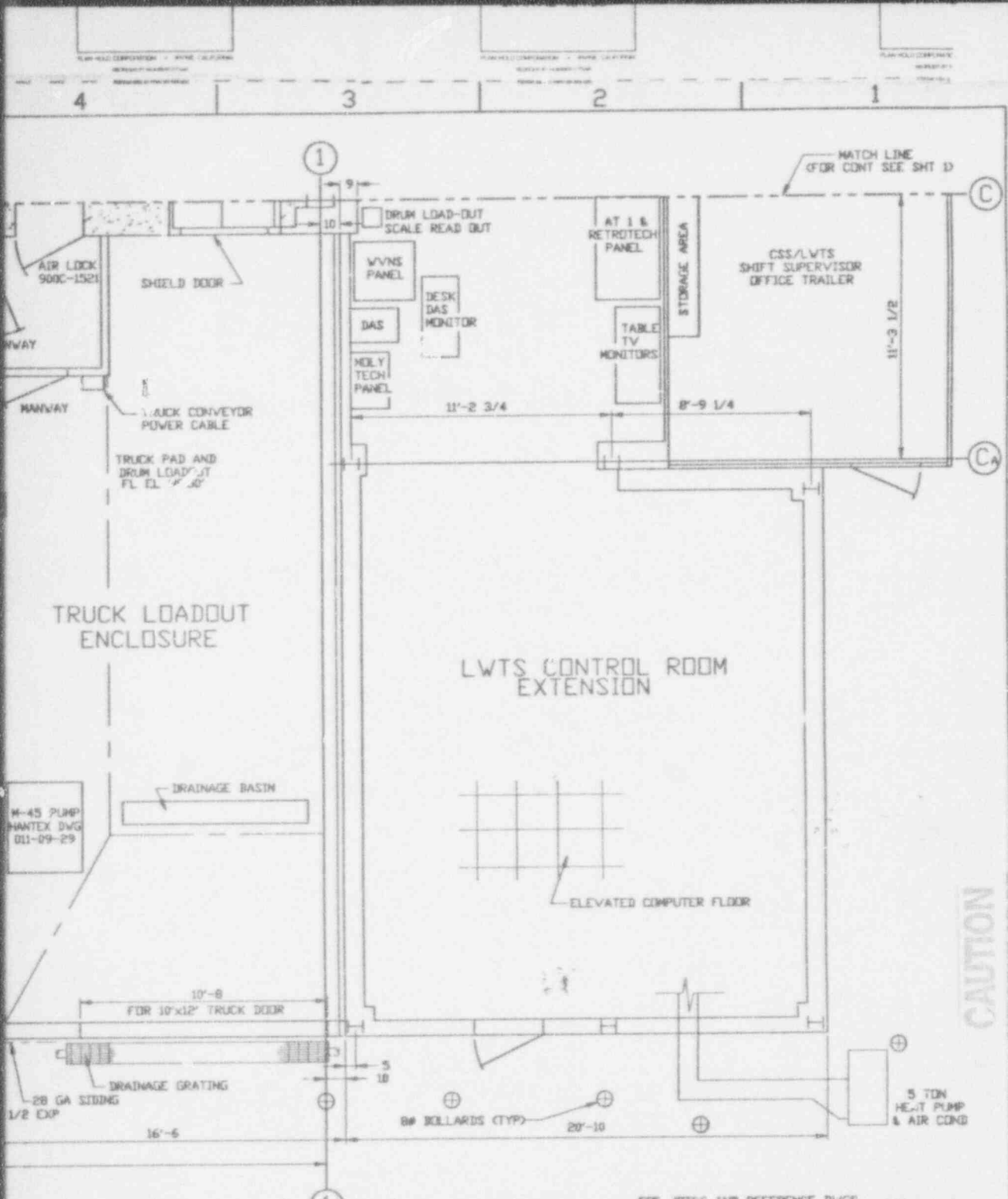
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 64-B-195

MCC-193  
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MCC-194  
 64-B-197

MCC-195  
 64-B-198

MCC-



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CARD

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CAUTION

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FOR NOTES AND REFERENCE DVGS  
SEE 906-D-030 SHT 1

RELEASED FOR BID  
*[Signature]*  
B. S. Stewart  
Mgr. Construction Projects Date 8/12/93

QTY	UNIT	SYMBOL	DESCRIPTION	PART OR IDENTIFYING NO.	MATERIAL OR SPEC.
PARTS LIST					
UNLESS OTHERWISE SPECIFIED		DRFTER	B. KUREK	DATE 3/29/93	
ALL DIMS IN INCHES		CHECKER	H. BARKER	DATE 05/10/93	
TOLERANCES-NO NET SCALE		DRGR	J. H. KRUZICKI	DATE 05/10/93	
PL. SEC. 3 PL. SEC. ANGLE		COORDINATOR	T. E. COTTRELL	DATE 3/12/93	
3 N/A 3 N/A 1 N/A		SYNOPSIS	R. F. VANCE	DATE 4/18/93	
3 N/A		DESIGN	R. N. KRAPP	DATE 5/13/93	
3 N/A		NEXT ASSEMBLY	JOHN HORTON	DATE 3/04/93	

WEST VALLEY NUCLEAR SERVICES CO., INC.  
WEST VALLEY, NEW YORK  
WEST VALLEY DEMONSTRATION PROJECT  
VITRIFICATION FACILITY  
GENERAL ARRANGMENT  
01/14 BUILDING PLAN EL. 98.00'  
SCALE 3/8"=1'-0"  
DWG NO. 906-D-030  
REV 1  
SHEET 3 OF 1



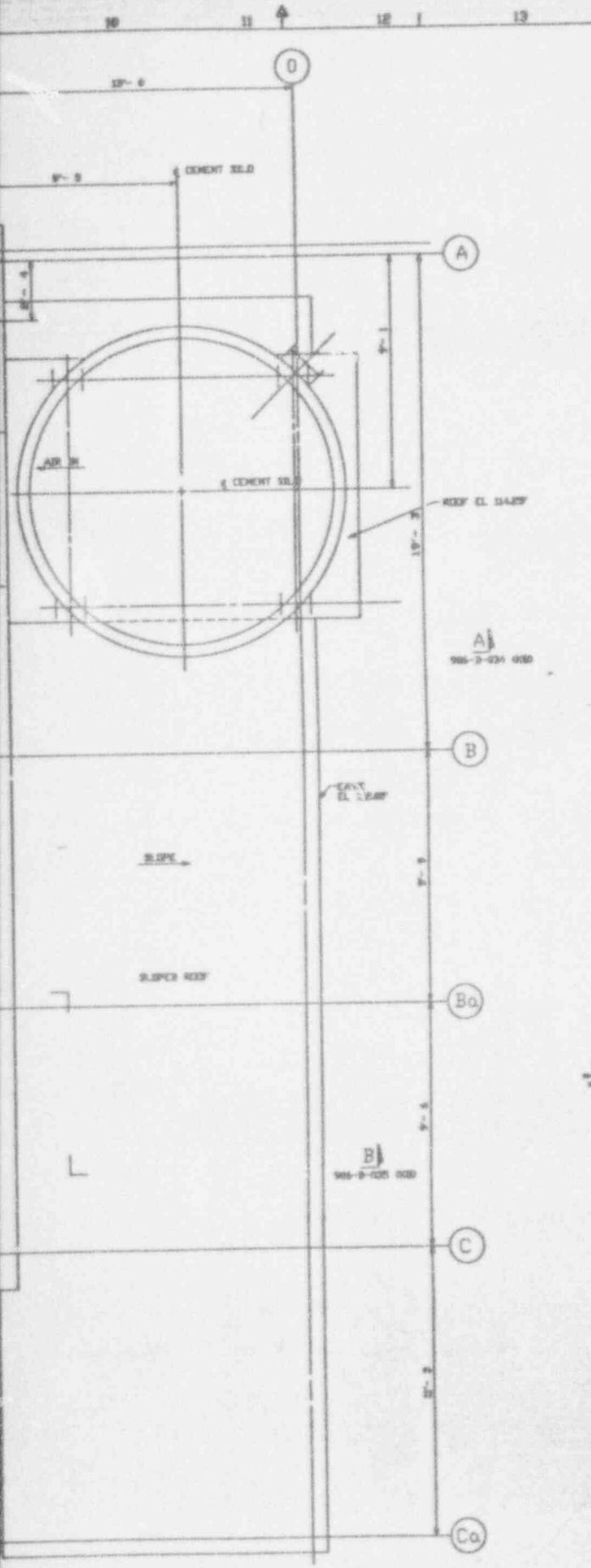
NO.	DATE	REVISION	DR	CH	APPROVED
B	09-27-90		YB	DRG	R.S. FRB P.F.
GENERAL REVISION					
C	10-07-90		YB	DRG	R.S. FRB P.F.
GENERAL REVISION					
D	9-24-91	ER 2193			JRH
1	12-2-91	ECN 4696	DAK	HAB	RPV
2	03-02-93	ECN 5996	SRC	KMG	JHK
3	05-06-93	GEN REV/ECN 6323	JLH	DRS	JHK
4	05-14-93	ECN 6290	H.L.	HAB	D.R.
5	07-20-93	ECN 6524	VCK	pl 5	pl 5

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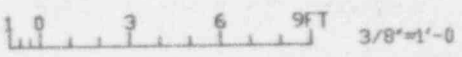
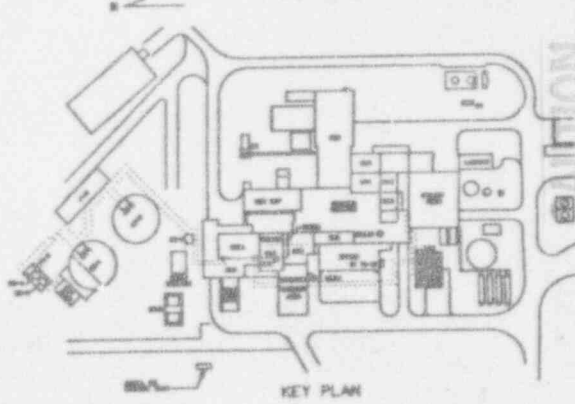
**NOTES**

FOR NOTES AND REFERENCE DRAWINGS SEE DVG 906-D-030 SH 1



RELEASED FOR RSD

*[Signature]*  
 S. A. Stewart  
 Mgr. Construction Projects Date



FOR DRAWING INDEX SEE DRAWING NO.

APPROVE VVND 02	20-0-00	E BASCO SERVICES INCORPORATED	
PROJECT NO.	7-0-00	AVE OF S. WILSON TASK ORDER 802	
ENGINEER SUPV	10-0-00	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
LEAD ENG. ENGR	10-0-00		
DESIGN	10-0-00	WEST VALLEY DEMONSTRATION PROJECT	
CHECKED	10-0-00	VITRIFICATION FACILITY	
DATE	10-0-00	GENERAL ARRANGEMENT	
SCALE	3/8"=1'-0"	01/14 BUILDING PLAN EL 116.50'	
PROJECT NO.	DE-A-107-009E-44130	SCALE	3/8"=1'-0"
SUBCONTRACT NO.	10-CVY-008	DRAWING NO.	906-D-031
ORDER FOR CONSTRUCTION		REV.	5
		SCALE	3/8"=1'-0"
		AVE. SHEET NO.	906-D-031

OCT 14 '93

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9401180105-37

906-D-035

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

ROOF T.O.S. EL. 128.00'

ROOF EL. 128.00'

FLOOR EL. 144.00'

ROOF HP. T.O.S. EL. 129.40'

ROOF LP. T.O.S. EL. 128.00'  
OFF-GAS INSTRUMENT  
ROOM ENCLOSURE

ELECTRICAL  
TRAYS  
H.V. RECT.

ANAL. ENCLOSURE  
64-1-006

64-1-007

FLOOR EL. 124.00'

ROOF HP. T.O.S. EL. 128.00'

ACCESS PLATFORM  
DWG 906D-154

47-V-005  
AIR COOLED  
CONDENSER UNIT

ANALOG VALVE  
GALLERY

MARKED

PIPE CHASE

EL. 110.00'

47-V-004  
AIR HANDLER

6" AIR LOCK

EL. 107'-0"

TOP OF SLAB EL. 76.00'

2

EQUIPMENT  
HATCH

2c

2b

2e

EL. 107'-0"

EL. 107'-0"

EL. 105'-0"

EL. 107'-0"

EL. 107'-0"

EL. 107'-0"

EL. 107'-0"

PLATE  
EL. 105.00'

EL. 107'-0"

EL. 107'-0"

1.1

64-T-004 & 005  
HEPA FILTER

64-00000  
OFF-GAS BLOWER

EL. 128'-0"

OFF-GAS  
FILTER  
ENCLOSURE  
64-1-005

EL. 137'-0" TRAIN A

EL. 137'-4" TRAIN B

F.L.R. EL. 126.00'

PIPE RACK AREA

D. 124.00'

STACK HOISTING  
COLLECTOR ROOM

F.L.R. EL. 126.00'

LABOR

LABOR

LABOR

EL. 107'-0"

EL. 107'-0"

CATALYTIC  
REACTOR  
64-C-003A

REMOVE THIS AREA

CONTAINMENT WALL

BEER

PLATFORM SCALE

SECTION B-B 906D-035

C

B

A

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NO.	DATE	REVISION	DR	CH	APPROVED
B	09-07-90		YB	SG	R.A. FSK F.J.S
GENERAL REVISION					
C	10-07-90		VP	MR	R.A. FSK F.J.S
GENERAL REVISION					
D	9-24-91	ER 2193			JRH
1	12-2-91	ECN 4696	DAK	HAB	RPV
2	1-10-93	ECN 5838	J.L.H	HAB	ZB
3	03-03-93	ECN 5996	SRC	KMG	JRK
4	05-10-93	ECN 6323	J.L.H	DRS	JRK
5	05-14-93	ECN 6290	H.L.	HAB	D.J.R
6	07-20-93	ECN 6524	VCK	pl	JL

NOTES

FOR NOTES AND REFERENCE DRAWINGS SEE DWG 906-D-030 SH 1.

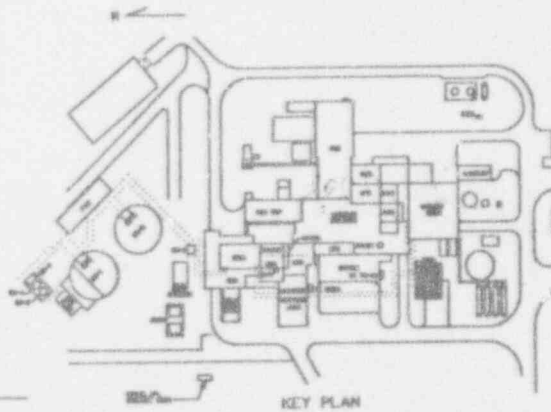
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CARD

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Aperture Card

9401180105 - 38

RELEASED FOR BID

*led*  
E. S. Stewart  
Mgr. Construction Projects  
Date



1 0 3 6 9 FT 3/8"=1'-0"

FOR DRAWING INDEX SEE DRAWING NO.

APPROV'D BY	DATE	PROJECT NO.	DATE	DESIGNED BY	DATE	LEAD ENG. NAME	DATE	SECTION	DATE	CHECKED	DATE	DRAWN	DATE	TITLE	DATE	SCALE	DATE	REV.
EBASCO SERVICES INCORPORATED A/E S/F/S ENGINEER TASK ORDER 822										WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK								
WEST VALLEY DEMONSTRATION PROJECT										VITRIFICATION FACILITY GENERAL ARRANGEMENT 01/14 BUILDING SECTIONS								
906-D-035										6								
906-D-035										C								

CAUTION  
CURRENT AS OF

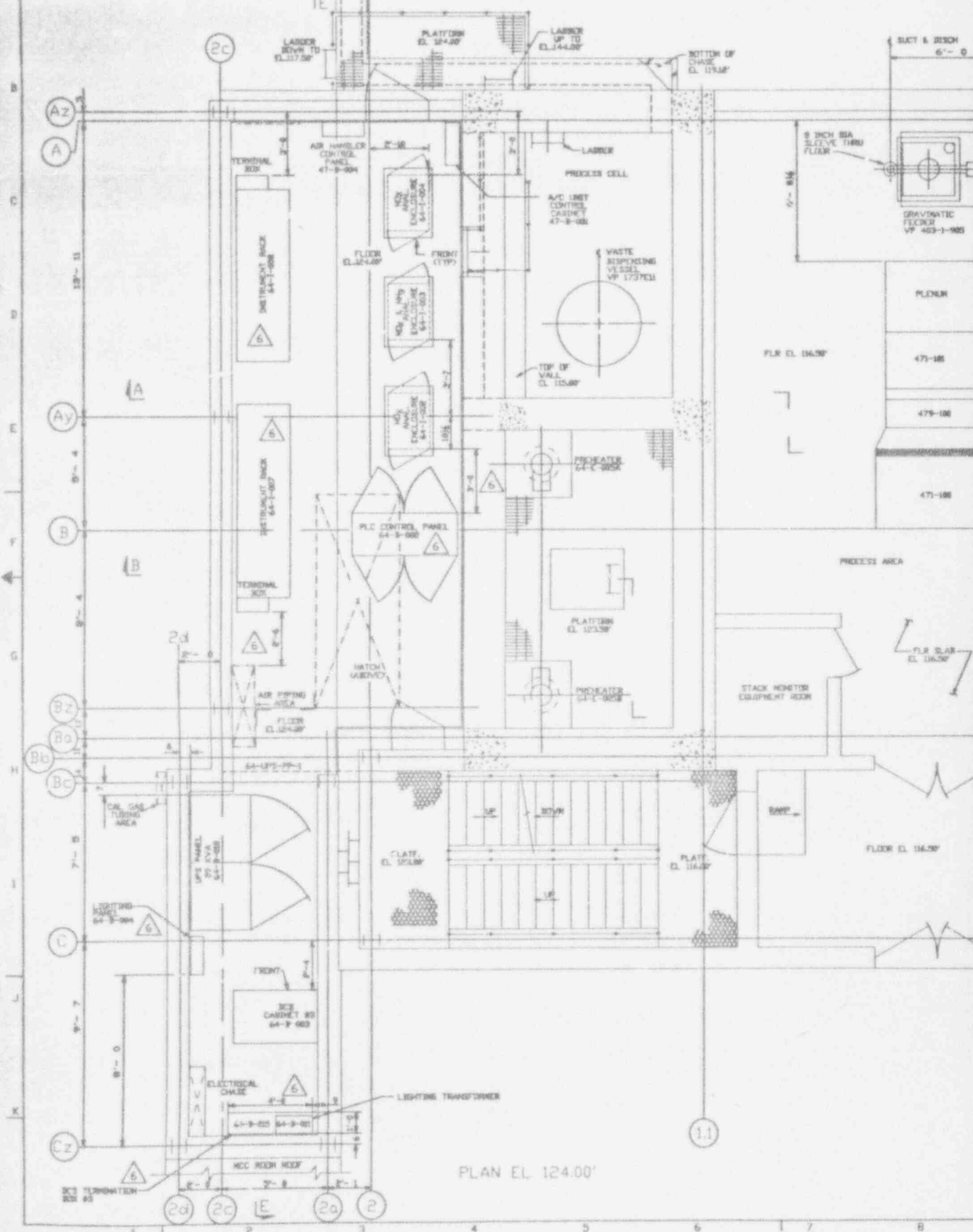
OCT 14 '93

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906-D-037



30'-10"



PLAN EL. 124.00'

D C B A

NO.	DATE	REVISION	DR	CH	APPROVED
0	9-24-91	ER 2193			JRH
1	12-2-91	ECN 4696	DAK	HAB	RPV
2	03-07-92	ECN 4996	SRC	HAB	RPV
3	03-04-93	ECN 5996	SRC	KMG	JHK
4	05-10-93	GEN REV/ECN 6323	JLH	DRS	JHK
5	05-14-93	ECN 6290	H.L.	HAB	DJR
6	09-26-93	ECN 6575	JLH	AME	<i>[Signature]</i>

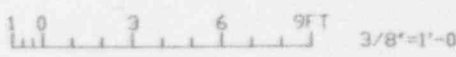
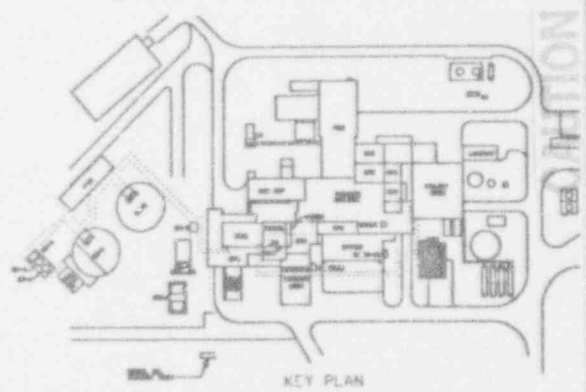
# SI APERTURE CARD

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### NOTES

FOR NOTES AND REFERENCE DRAWINGS SEE DWG 906-D-036.

9401180105-39

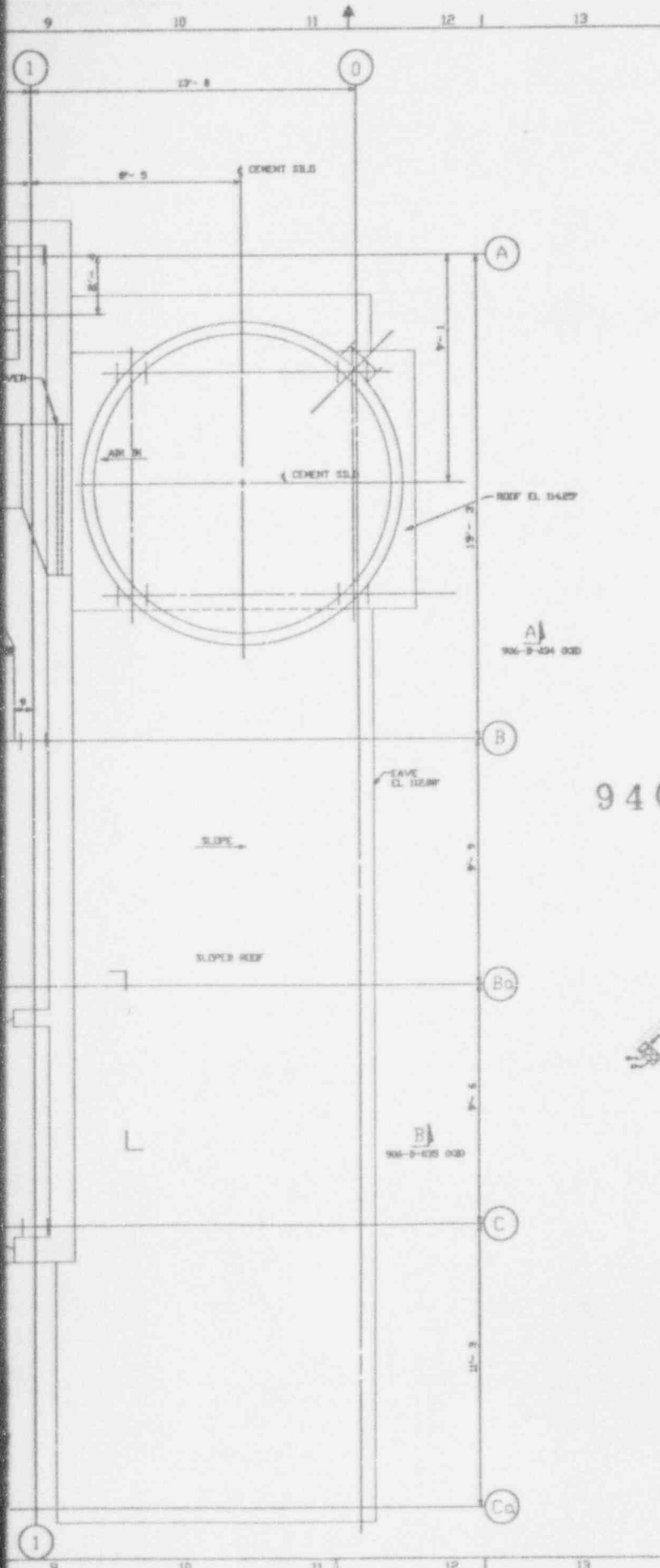


APPROVE VVNS 03		E BASCO SERVICES INCORPORATED	
PROJECT MGR	F. J. S. STROBEY	A/E OF S. NO. 2386	TASK ORDER 905
ENGINEER SUPV	F. S. KOWALCZYK	FOR WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
LEAD DESIG ENGR	F. S. KOWALCZYK	WEST VALLEY DEMONSTRATION PROJECT VITRIFICATION FACILITY	
DESIGNER	R. J. LEVINO	GENERAL ARRANGEMENT	
CHECKER	J. SIEK	01/14 BUILDING PLAN EL. 124.00'	
DRAWN	T. PATEL	DATE 10-27-93	
30-AC27-0106-44129	SCALE 3/8"=1'-0"	DRAWING NO.	REV.
PROJECT NO.	INDEX CODE NUMBER	906-D-037	6
19-CVY-09275	AREA (SQ. FT.)	A/E SHEET NO.	
SUBCONTRACT NO.	SCALE	906-D-037	A
ISSUES FOR CONSTRUCTION	SCALE		

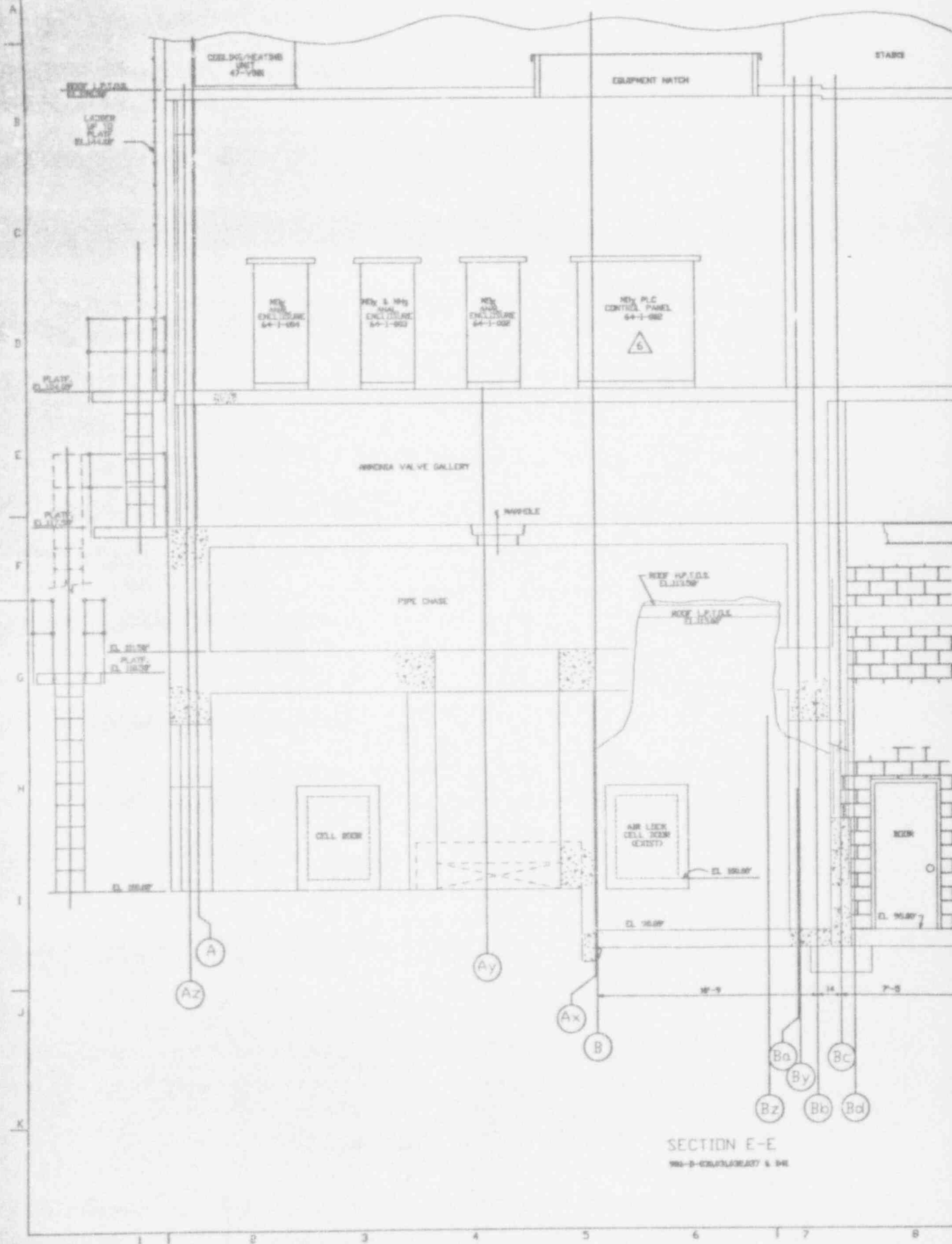
CURRENT AS OF

OCT 14 '93

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906-D-038



SECTION E-E  
 906-D-CR/PL/AR/ST & SH

NO.	DATE	REVISION	DR	FN	APPROVED
0	9-24-91	ER 2193			JRH
1	12-2-91	ECN 4696	DAK	HAB	RPV
2	03-03-93	ECN 5996	SRC	KMD	JHK
3	05-10-93	ECN 6323	J.H	DRS	JHK
4	05-14-93	ECN 6290	H.A	HAB	DJR
5	07-21-93	ECN 6524	WCX	DRS	JHK
6	08-26-93	ECN 6575	J.H	KW	JHK

# SI APERTURE CARD

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NOTES Aperture Card  
FOR NOTES & REFERENCE DRAWINGS SEE DWG 906-D-030 SH 1

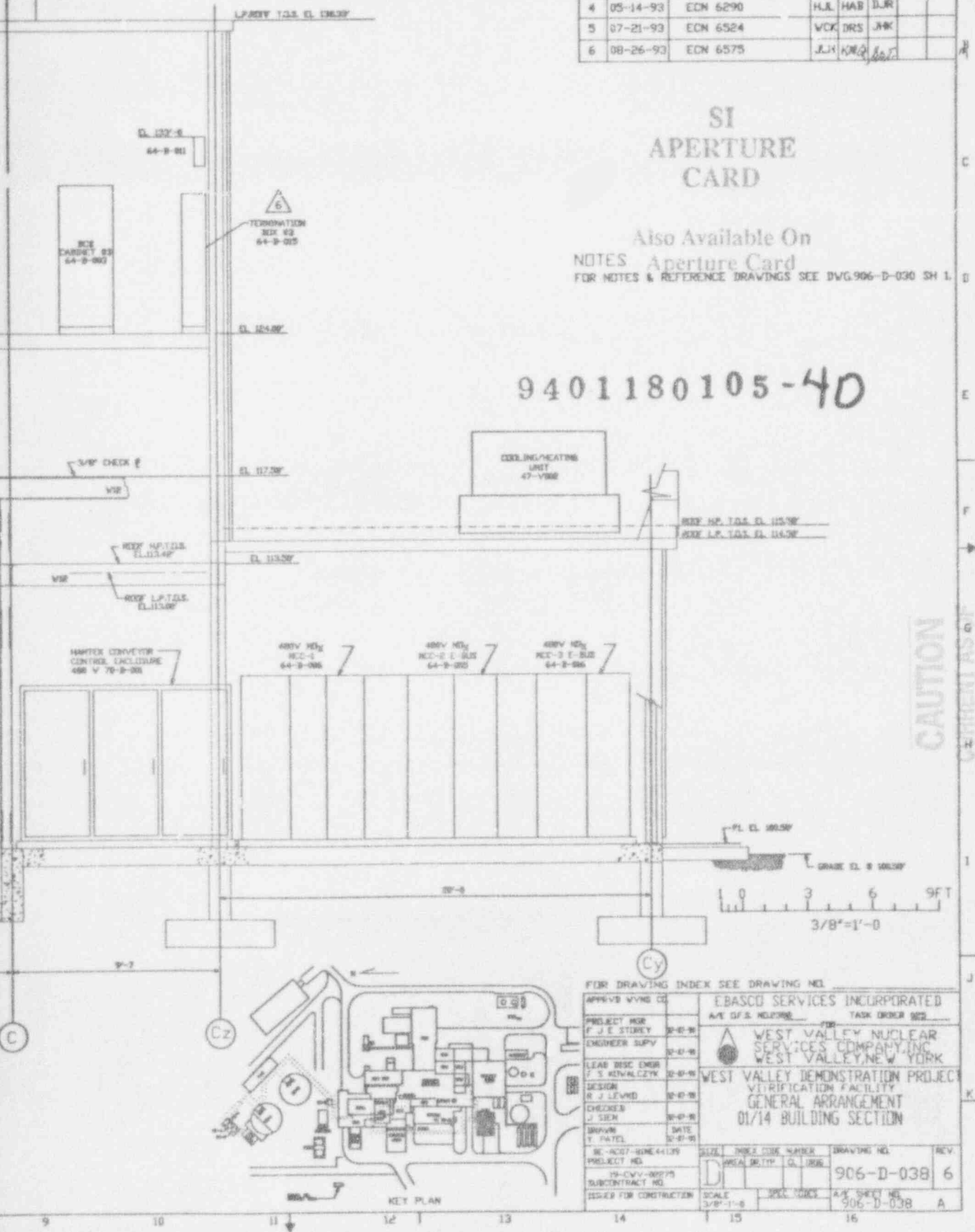
## 9401180105-40

CAUTION

CURRENT AS OF

01/14/93

CHECK DOCUMENT CONTROL  
FOR LATEST REVISION.



FOR DRAWING INDEX SEE DRAWING NO.		E BASCO SERVICES INCORPORATED	
APPROV. VVING CO.	F. J. E. STOREY	A/E O.F.S. NO. 2390	TASK ORDER NO.
PROJECT MGR	ENGINEER SUPV	WEST VALLEY NUCLEAR SERVICES COMPANY, INC. WEST VALLEY, NEW YORK	
LEAD DISC ENGR	DESIGN	WEST VALLEY DEMONSTRATION PROJECT VERIFICATION FACILITY GENERAL ARRANGEMENT 01/14 BUILDING SECTION	
CHECKED	DATE	SCALE: 3/8" = 1'-0"	
DRAWN	DATE	DRAWING NO. 906-D-038	
REV. NO. 01-01	REV. DATE	REV. 6	
PROJECT NO.	SUBCONTRACT NO.	A/E SHEET NO. 906-D-038	
ISSUED FOR CONSTRUCTION		A	