



**Constellation Energy**

Nine Mile Point Nuclear Station

P.O. Box 63  
Lycoming, New York 13093

May 26, 2004  
NMP1L 1834

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

**SUBJECT:** Nine Mile Point Units 1 and 2  
Docket Nos. 50-220 and 50-410  
Facility Operating License Nos. DPR-63 and NPF-69

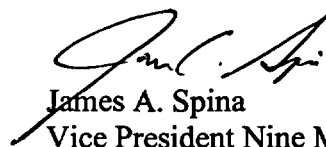
License Renewal Boundary Drawings

Gentlemen:

Nine Mile Point Nuclear Station, LLC (NMPNS) letter NMP1L 1829 dated May 26, 2004, submitted an application to renew the operating licenses for Nine Mile Point Units 1 and 2. The NMPNS License Renewal Application (LRA) references boundary drawings used in the scoping and screening phase of the license renewal project. Enclosed is a copy of the boundary drawings to aid the Staff in the review of the NMPNS LRA. These drawings are for information only and are not considered part of the application.

There are no new commitments contained in this submittal. If you have any questions about this submittal, please contact Peter Mazzaferro, NMPNS License Renewal Project Manager, at (315) 349-1019.

Very truly yours,



James A. Spina  
Vice President Nine Mile Point

JAS/DEV/bjh

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**Enclosure: NMPNS License Renewal Boundary Drawings**

cc: (w/ Enclosure)  
Mr. H. J. Miller, NRC Regional Administrator, Region I  
Mr. R. Auluck, License Renewal Project Manager, NRR (3 sets)

cc: (w/o Enclosure)  
Mr. G. K. Hunegs, NRC Senior Resident Inspector  
Mr. P. S. Tam, Senior Project Manager, NRR (2 copies)

**ENCLOSURE**

**Nine Mile Point Nuclear Station**

**License Renewal Boundary Drawings**

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| LR-019, Sheet M    | 0           | Instrument & Service Air                   |
| LR-028, Sheet A    | 0           | Nuclear Boiler and Process Instrumentation |

## Index of NMP2 License Renewal Boundary Drawings

| <u>Drawing No.</u> | <u>Rev.</u> | <u>Title</u>                               |
|--------------------|-------------|--|
| LR-028, Sheet B    | 0           | Nuclear Boiler and Process Instrumentation |
| LR-028, Sheet C    | 0           | Nuclear Boiler and Process Instrumentation |
| LR-029, Sheet A    | 0           | Reactor Recirculation System               |
| LR-029, Sheet B    | 0           | Reactor Recirculation System               |
| LR-029, Sheet C    | 0           | Reactor Recirculation System               |
| LR-030, Sheet A    | 0           | Control Rod Drive Hydraulic System         |
| LR-030, Sheet B    | 0           | Control Rod Drive Hydraulic System         |
| LR-030, Sheet C    | 0           | Control Rod Drive Hydraulic System         |
| LR-031, Sheet A    | 0           | Residual Heat Removal System               |
| LR-031, Sheet B    | 0           | Residual Heat Removal System               |
| LR-031, Sheet C    | 0           | Residual Heat Removal System               |
| LR-031, Sheet D    | 0           | Residual Heat Removal                      |
| LR-031, Sheet E    | 0           | Residual Heat Removal                      |
| LR-031, Sheet F    | 0           | Residual Heat Removal                      |
| LR-031, Sheet G    | 0           | Residual Heat Removal                      |
| LR-032, Sheet A    | 0           | Low Pressure Core Spray                    |
| LR-033, Sheet A    | 0           | High Pressure Core Spray System            |
| LR-033, Sheet B    | 0           | High Pressure Core Spray System            |
| LR-035, Sheet A    | 0           | Reactor Core Isolation Cooling             |
| LR-035, Sheet B    | 0           | Reactor Core Isolation Cooling             |
| LR-035, Sheet C    | 0           | Reactor Core Isolation Cooling             |
| LR-035, Sheet D    | 0           | Reactor Core Isolation Cooling             |

## Index of NMP2 License Renewal Boundary Drawings

| <b>Drawing No.</b> | <b>Rev.</b> | <b>Title</b>                                 |
|--------------------|-------------|--|
| LR-036, Sheet A    | 0           | Standby Liquid Control                       |
| LR-037, Sheet A    | 0           | Reactor Water Cleanup System                 |
| LR-037, Sheet B    | 0           | Reactor Water Cleanup System                 |
| LR-038, Sheet A    | 0           | Fuel Pool Cooling & Clean Up                 |
| LR-038, Sheet B    | 0           | Fuel Pool Cooling & Clean Up                 |
| LR-038, Sheet C    | 0           | Fuel Pool Cooling & Clean Up                 |
| LR-043, Sheet A    | 0           | Fire Protection – Water                      |
| LR-043, Sheet B    | 0           | Fire Protection – Water                      |
| LR-043, Sheet C    | 0           | Fire Protection – Water                      |
| LR-043, Sheet D    | 0           | Fire Protection – Water                      |
| LR-043, Sheet E    | 0           | Fire Protection – Water                      |
| LR-043, Sheet F    | 0           | Fire Protection – Water                      |
| LR-043, Sheet G    | 0           | Fire Protection – Water                      |
| LR-043, Sheet H    | 0           | Fire Protection – Water                      |
| LR-044, Sheet A    | 0           | Fire Protection – Foam                       |
| LR-044, Sheet B    | 0           | Fire Protection – Foam                       |
| LR-045, Sheet A    | 0           | Fire Protection, CO2 System                  |
| LR-045, Sheet B    | 0           | Fire Protection, Low Pressure CO2            |
| LR-045, Sheet C    | 0           | Fire Protection, CO2 System                  |
| LR-046, Sheet A    | 0           | Fire Protection – Halon                      |
| LR-050, Sheet A    | 0           | Domestic Water                               |
| LR-052, Sheet A    | 0           | Rx Building Ventilation & Cat I Area Coolers |

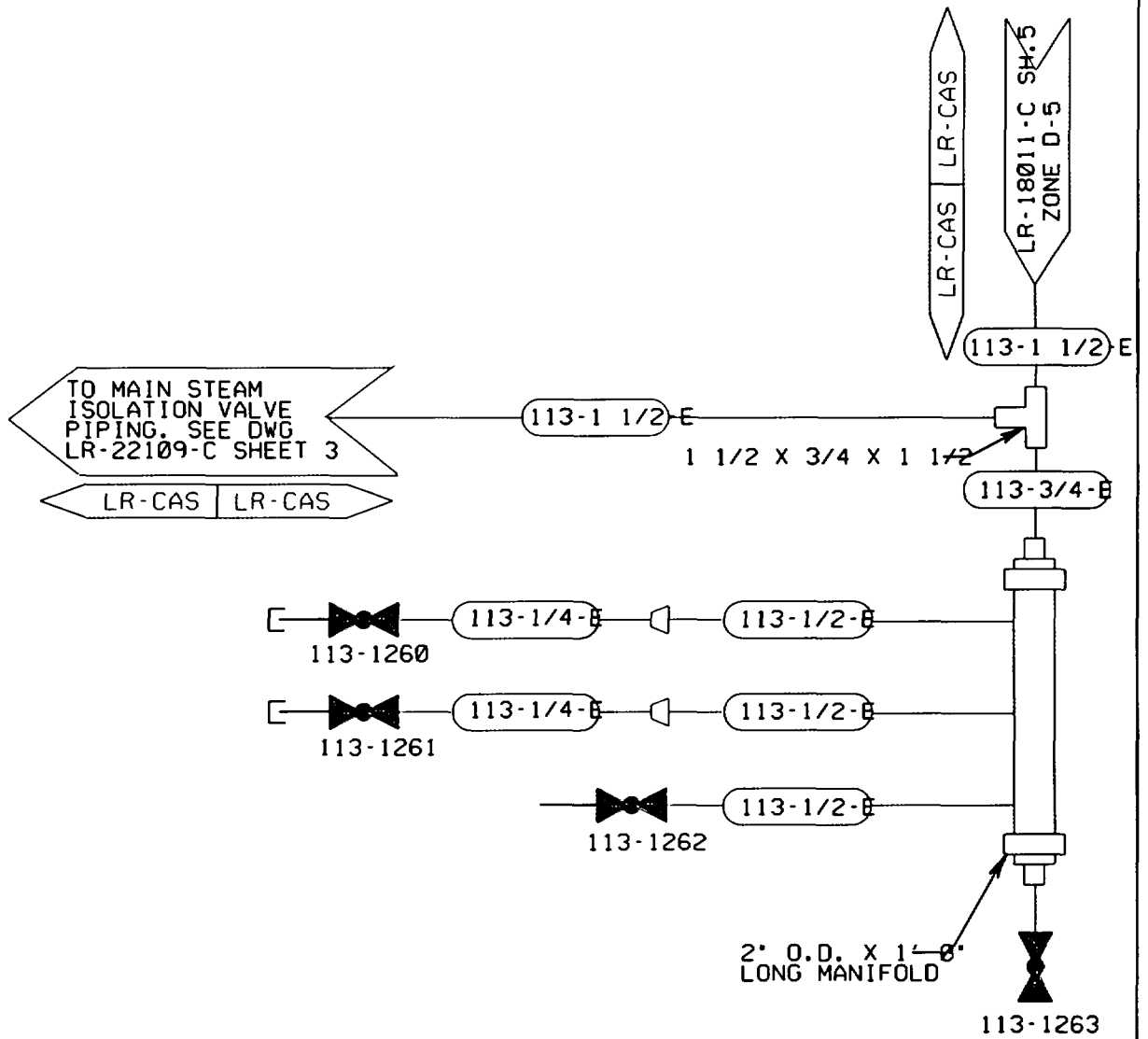


**Index of NMP2 License Renewal Boundary Drawings**

| <b>Drawing No.</b> | <b>Rev.</b> | <b>Title</b>   |
|--------------------|-------------|--|
| LR-052, Sheet B    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-052, Sheet C    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-052, Sheet D    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-052, Sheet E    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-052, Sheet F    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-052, Sheet G    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-052, Sheet H    | 0           | Rx Building Ventilation & Cat I Area Coolers             |
| LR-053, Sheet A    | 0           | Control Building Chilled Water                           |
| LR-053, Sheet B    | 0           | Control Building Ventilation and Air Conditioning        |
| LR-053, Sheet C    | 0           | Control Building Ventilation and Air Conditioning        |
| LR-053, Sheet D    | 0           | Control Building Ventilation and Air Conditioning        |
| LR-053, Sheet E    | 0           | Control Building Ventilation and Air Conditioning        |
| LR-053, Sheet F    | 0           | Control Building Ventilation and Air Conditioning        |
| LR-054, Sheet A    | 0           | Chilled Water and Normal Switchgear Building Ventilation |
| LR-057, Sheet A    | 0           | Diesel Generator Building Ventilation                    |
| LR-058, Sheet A    | 0           | Screenwell & Diesel Fire Pump Room Vent                  |
| LR-058, Sheet B    | 0           | Screenwell & Diesel Fire Pump Room Vent                  |
| LR-059, Sheet B    | 0           | Electrical Tunnels and Miscellaneous Vent System         |
| LR-059, Sheet C    | 0           | Electrical Tunnels and Miscellaneous Vent System         |
| LR-061, Sheet A    | 0           | Primary Containment Purge & Standby Gas Treatment        |
| LR-061, Sheet B    | 0           | Primary Containment Purge & Standby Gas Treatment        |
| LR-061, Sheet C    | 0           | Stand-By Gas   |

## Index of NMP2 License Renewal Boundary Drawings

| <b>Drawing No.</b> | <b>Rev.</b> | <b>Title</b>  |
|--------------------|-------------|---|
| LR-062, Sheet A    | 0           | DBA Hydrogen Recombiner   |
| LR-062, Sheet B    | 0           | DBA Hydrogen Recombiner   |
| LR-063, Sheet A    | 0           | Reactor Building Equipment and Floor Drains                               |
| LR-063, Sheet C    | 0           | Reactor Building Equipment and Floor Drains                               |
| LR-063, Sheet D    | 0           | Reactor Building Equipment and Floor Drains                               |
| LR-063, Sheet E    | 0           | Reactor Building Equipment and Floor Drains                               |
| LR-066, Sheet B    | 0           | Miscellaneous Drains  |
| LR-067, Sheet A    | 0           | Drywell Equipment Drains  |
| LR-081, Sheet A    | 0           | Piping & Instrumentation Diagram Containment Leakage Monitoring System    |
| LR-082, Sheet A    | 0           | Piping & Instrumentation Diagram Containment Atmosphere Monitoring System |
| LR-082, Sheet B    | 0           | Piping & Instrumentation Diagram Containment Atmosphere Monitoring System |
| LR-104, Sheet A    | 0           | Standby Diesel Gen. System  |
| LR-104, Sheet B    | 0           | Standby Diesel Gen. System  |
| LR-104, Sheet C    | 0           | Standby Diesel Gen. System  |
| LR-104, Sheet D    | 0           | Jacket Water Standby Diesel Generator System                              |
| LR-104, Sheet E    | 0           | Lube Oil Standby Diesel Generator System                                  |
| LR-104, Sheet F    | 0           | Fuel Oil Schematic Standby Diesel Generator System                        |
| LR-105, Sheet B    | 0           | Nitrogen System   |
| LR-115, Sheet A    | 0           | Alternate Decay Heat Removal System                                       |
| LR-12177-EM-38A    | 0           | Arrangement Neutron Monitoring System - Reactor Building                  |



**NOTES:**

1) FOR GENERAL NOTES SEE  
 DWG. A-22108-C, SHEET 1 & 2.


**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18002-C, SH.1 (S11)

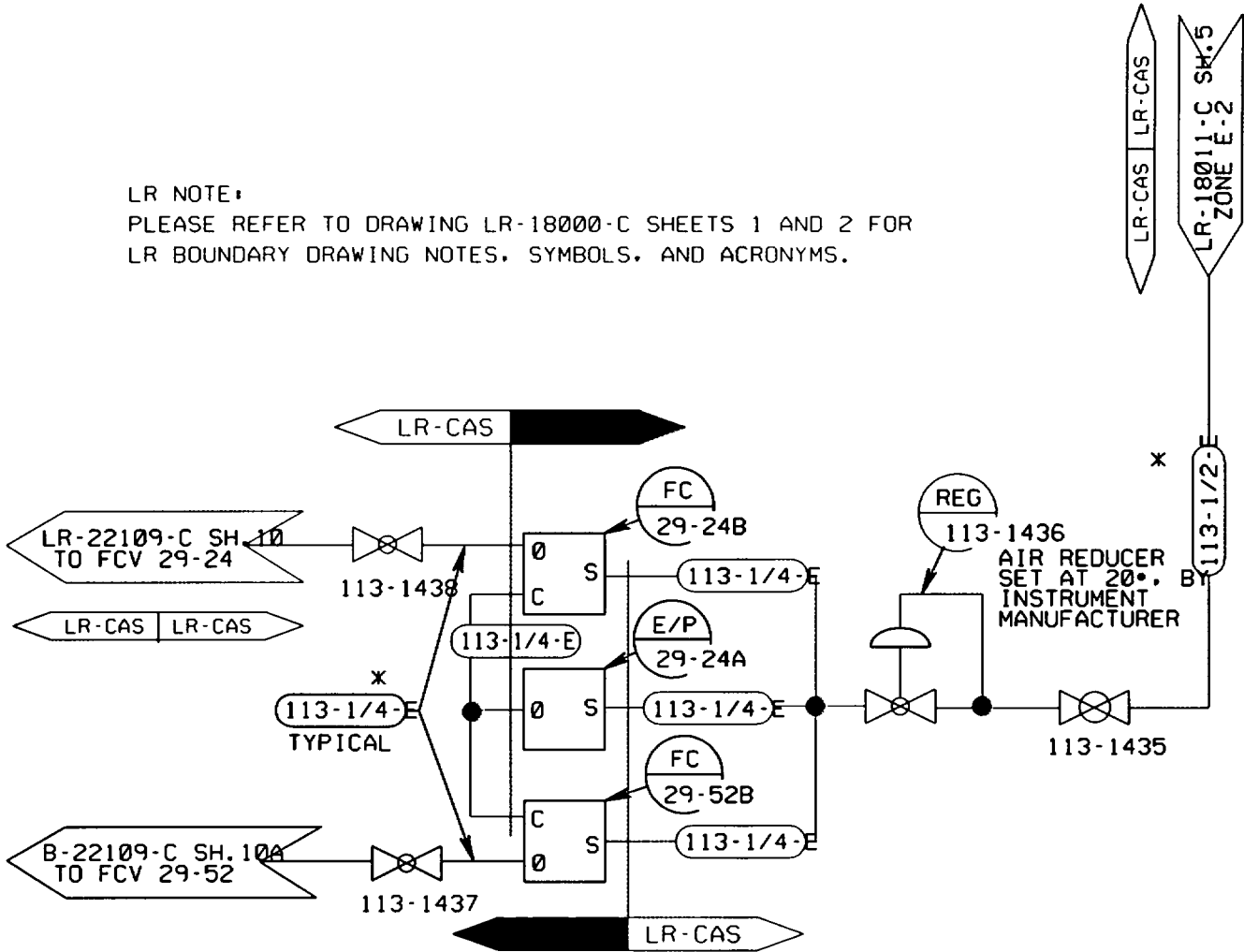
MSIV INSTR. AIR SUPPLY PIPING FOR  
 NUMATICS PILOT VALVES F-39842-C  
 SH.1&2 3-N2.1-S18.8

INSTR. AIR SUPPLY TURBINE BLDG.  
 EL. 261' @ COL. H-9  
 B-22109-C, SH.3 3-N2-S18.8

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|   |      |   |         |                    |              |
|---|------|---|---------|--------------------|--------------|
|  |      | CONSTELLATION NINE MILE POINT<br>ENERGY GROUP |         | UNIT *1            |              |
| INSTRUMENT AIR SUPPLY   |      |   |         |                    |              |
| TURBINE BUILDING  |      |   |         |                    |              |
| EL. 261' - 0" @ COLUMN "H-9"  |      |   |         |                    |              |
| DR.   | RWK  | TR.   | CK.     | BG                 | DATE 9-25-67 |
| APPROVED COR  |      | APPROVED ALP                                  |         | SCALE NONE         |              |
| APPROVED SFP  |      | DWG. NO. LR-22108-09                          |         | INDEX 3-N2.1-S18.8 |              |
| REV   | DATE | BY  | REMARKS | CK.                | APP.         |
|   |      |   |         |                    |              |

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REACTOR FEED PUMP # 12  
RECIRCULATION FLOW CONTROL


NOTES:

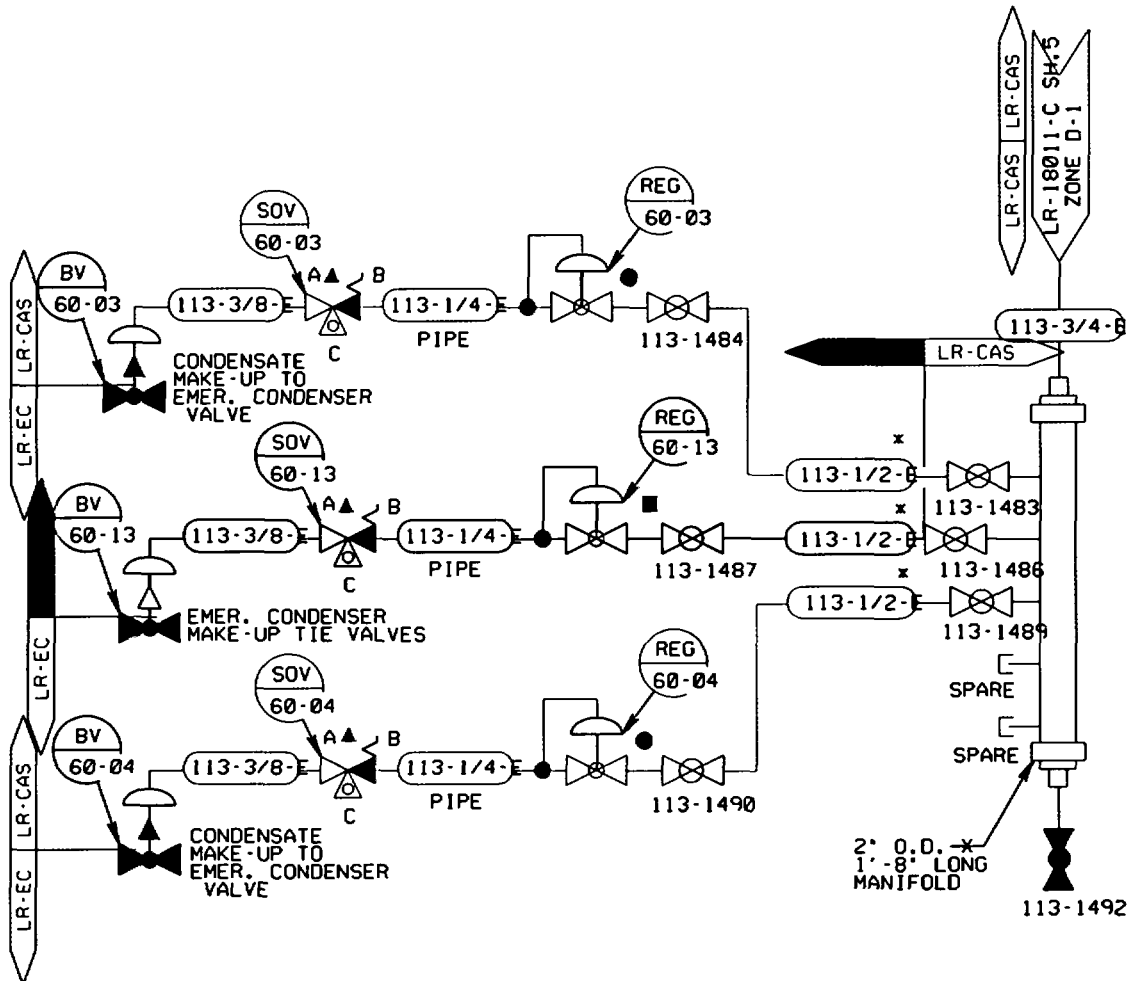
- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2)X CRESENT ARMORED TUBING

REFERENCE DRAWING:

P&I DIAGRAM C-18005-C SH. 1(S12)

|     |        |
|-----|--------|
| E/P | 29-24A |
| FC  | 29-24B |
| FC  | 29-52B |

|   |      |                               |              |
|---|------|-------------------------------|--------------|
|  |      | CONSTELLATION NINE MILE POINT |              |
|   |      | ENERGY GROUP UNIT # 1         |              |
| INSTRUMENT AIR SUPPLY   |      |                               |              |
| TURBINE BUILDING  |      |                               |              |
| EL. 291' - 0" @ COLUMN "H-10"   |      |                               |              |
| DR.   | TR.  | CK.                           | DATE         |
| APPROVED  |      | APPROVED                      |              |
| APPROVED  |      | DWG. NO.                      | SCALE        |
| APPROVED  |      | LR-22108-C                    | NONE         |
| APPROVED  |      | SH.                           | INDEX        |
| APPROVED  |      | 28                            | 3-N2.1-S18.8 |
| REV.  | DATE | BY                            | REMARKS      |
|   |      |                               |              |
|   |      |                               |              |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) x CRESCENT ARMORED TUBING
- 3) ▲ 3-WAY SOLENOID VALVE BY VALVE MANUFACTURER
- 4) ● AIR REDUCER SET AT 30" BY VALVE MANUFACTURER
- 5) ■ AIR REDUCER SET AT 35" BY VALVE MANUFACTURER

REFERENCE DRAWING:  
P&I DIAGRAM C-18017-C (S14)

|    |       |
|----|-------|
| BV | 60-03 |
| BV | 60-04 |
| BV | 60-13 |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT # 1

INSTRUMENT AIR SUPPLY  
TURBINE BUILDING

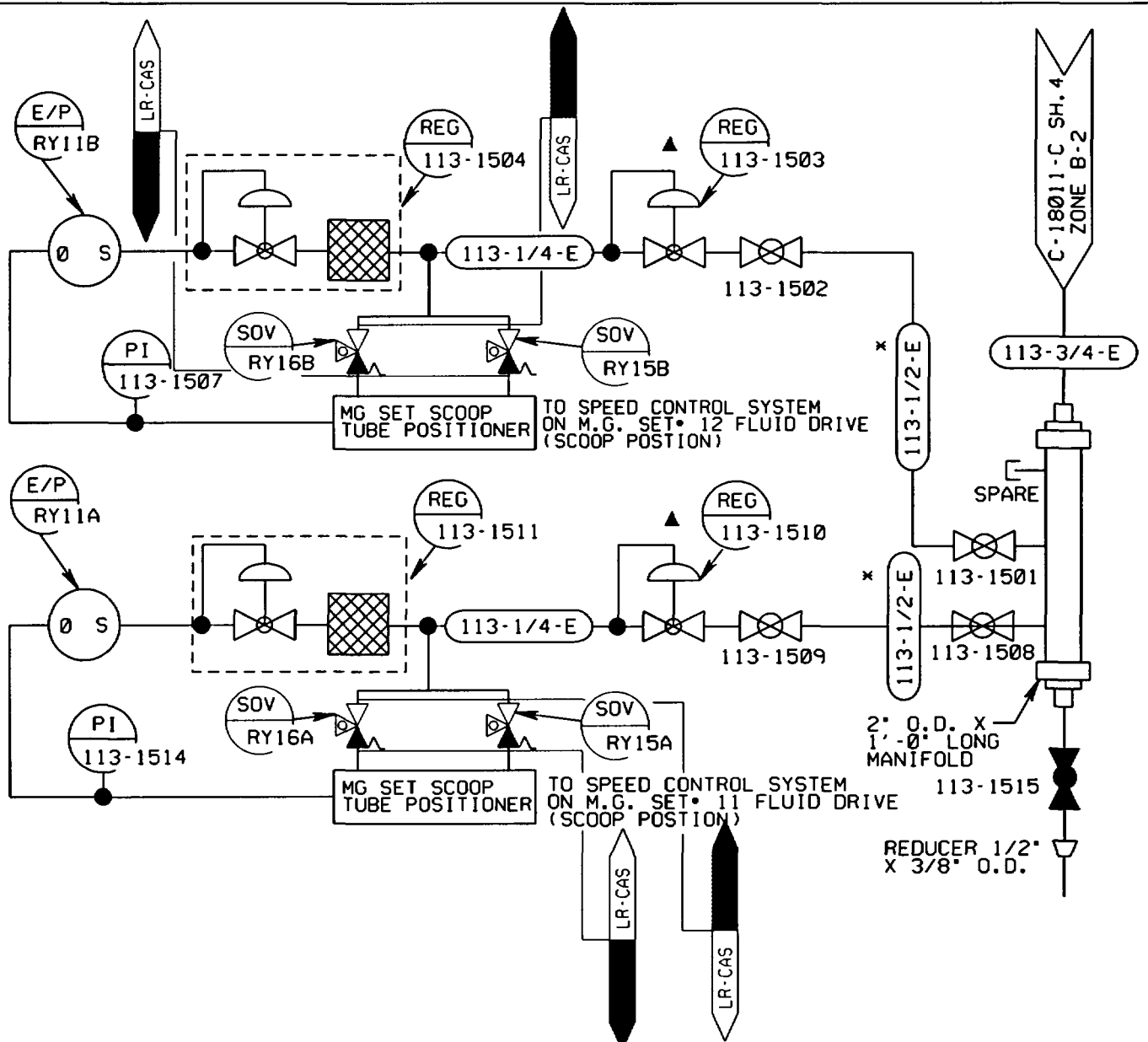
EL. 369'-0" @ COLUMN "G-8"

|     |     |     |      |       |
|-----|-----|-----|------|-------|
| DR. | TR. | CK. | DATE | SCALE |
|     |     |     |      | NONE  |

|          |          |              |
|----------|----------|--------------|
| APPROVED | APPROVED | INDEX        |
|          |          | 3-N2.1-S18.8 |

|          |            |     |      |
|----------|------------|-----|------|
| APPROVED | DWG. NO.   | SH. | REV. |
|          | LR-22108-0 | 34  | 0    |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.


**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) \* CRESCENT ARMORED TUBING
- 3) ▲ FISHER AIR REDUCER-67FR- BY S&W- SET AT 40PSIG

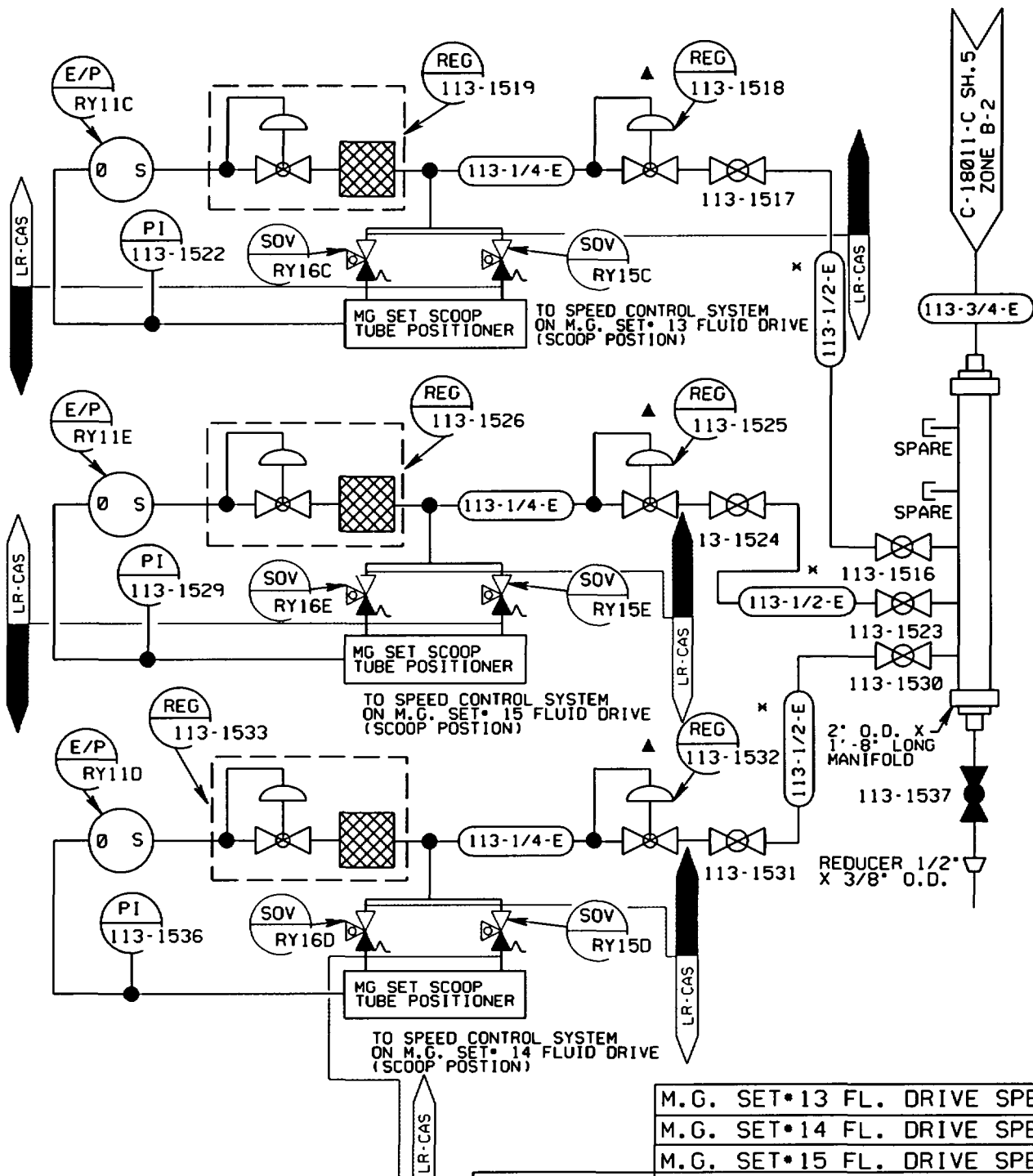
**REFERENCE DRAWING:**

C-23080-C SH. 1 (E21)

M.G. SET\*11 FL. DRIVE SPEED  
 M.G. SET\*12 FL. DRIVE SPEED

|   |   |               |
|---|---|---------------|
|  | CONSTELLATION NINE MILE POINT<br>ENERGY GROUP | UNIT *1       |
| INSTRUMENT AIR SUPPLY   |   |               |
| TURBINE BUILDING  |   |               |
| EL. 261'-0" @ COLUMN "D-2"  |   |               |
| DR.   | TR.   | CK.           |
| DATE  | SCALE   | INDEX         |
| APPROVED<br>3-N2.1-S18.8  | NONE  | APPROVED      |
| APPROVED  | DWG. NO.<br>LR-22108-0                        | SH. 42 REV. 0 |


| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

NOTES:  
1) FOR GENERAL NOTES SEE  
DWG. A-22108-C, SHEET 1 & 2.  
2) 1/2" CRESCENT ARMORED TUBING  
3) 1/2" O.D. x 1/8" REDUCER 57FR.  
BY 509. SEE AT 105510  
REFERENCE DRAWING  
C-23000-C SH. 1 (E2)

M.G. SET\*13 FL. DRIVE SPEED  
M.G. SET\*14 FL. DRIVE SPEED  
M.G. SET\*15 FL. DRIVE SPEED

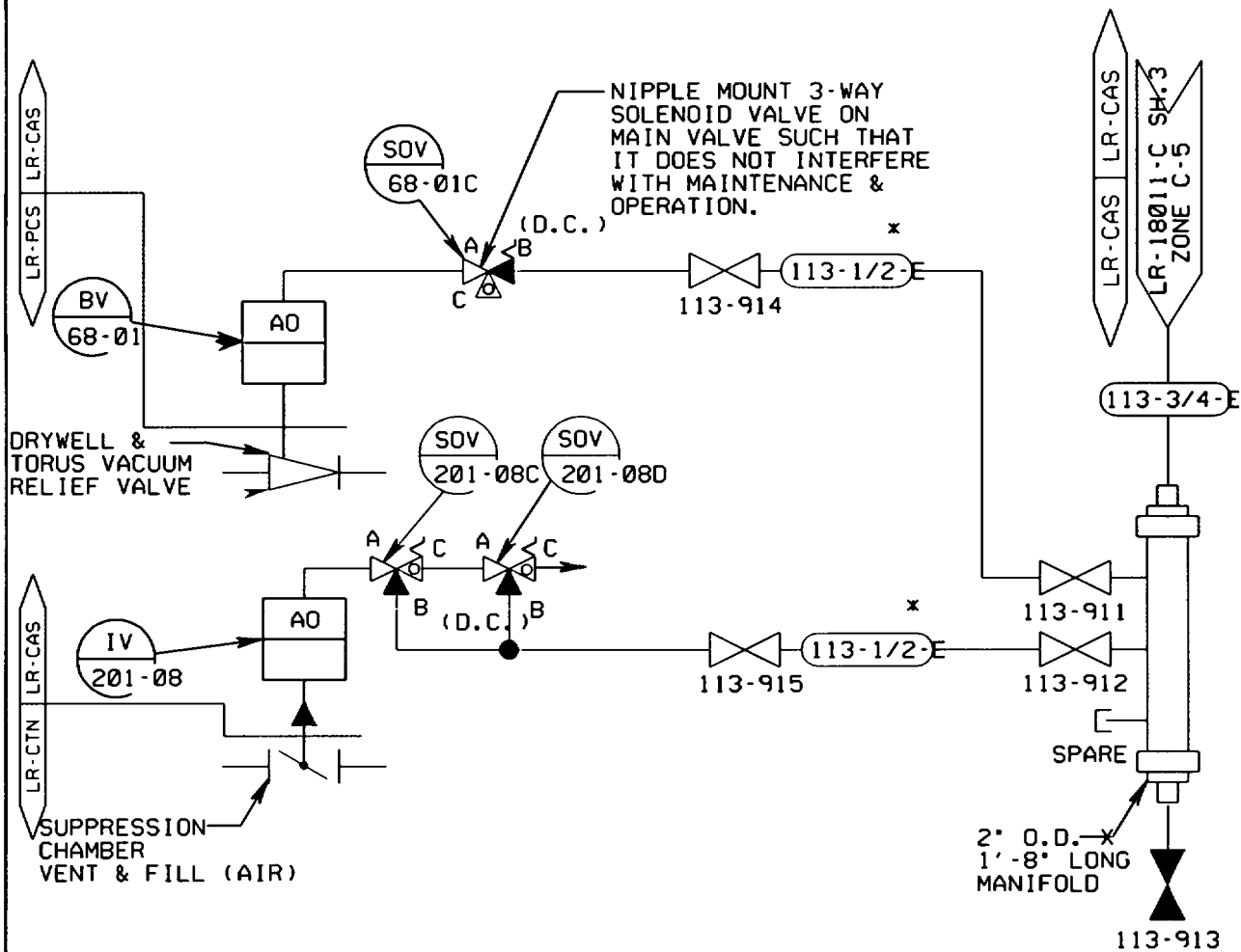
 **CONSTELLATION NINE MILE POINT  
ENERGY GROUP** UNIT \*1

INSTRUMENT AIR SUPPLY  
TURBINE BUILDING

EL. 261'-0" @ COLUMN "D-3"

|          |     |          |            |       |              |
|----------|-----|----------|------------|-------|--------------|
| DR.      | TR. | CK.      | DATE       | SCALE | NONE         |
| APPROVED |     | APPROVED |            | INDEX | 3-N2.1-S18.8 |
| APPROVED |     | DWG. NO. | LR-22108-0 | SH.   | 43           |
|          |     | REV.     |            |       | 0            |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) \* CRESCENT ARMORED TUBING

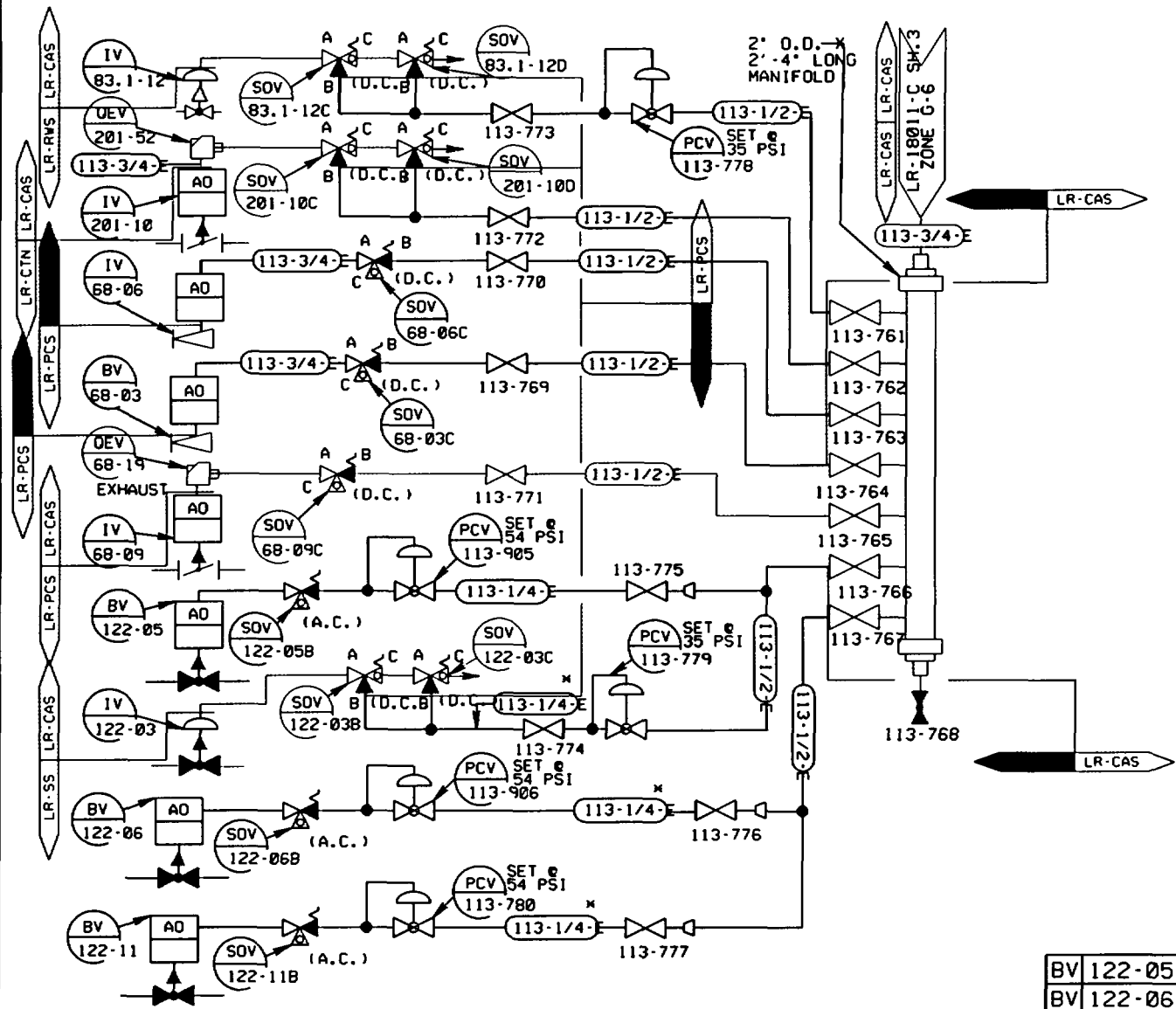
**REFERENCE DRAWING:**

P&I DIAGRAM C-18014-C (S10) & C-18006-C SH.1 & 2

|    |        |
|----|--------|
| IV | 201-08 |
| BV | 68-01  |

|                                     |   |                   |          |                    |              |                     |       |        |
|-------------------------------------|---|-------------------|----------|--------------------|--------------|---------------------|-------|--------|
|                                     | <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |                   |          |                    |              |                     |       |        |
| <b>UNIT # 1</b>                     |   |                   |          |                    |              |                     |       |        |
| <b>INSTRUMENT AIR SUPPLY</b>        |   |                   |          |                    |              |                     |       |        |
| <b>REACTOR BUILDING</b>             |   |                   |          |                    |              |                     |       |        |
| <b>EL. 237' - 0" @ COLUMN "L-6"</b> |   |                   |          |                    |              |                     |       |        |
| DR. RFN                             | TR.   | CK. BG            | DATE     | SCALE              |              |                     |       |        |
|                                     |   |                   | 11-13-87 | NONE               |              |                     |       |        |
| APPROVED COR                        |   | APPROVED JL HIKLE |          | INDEX 3-N2.1-S18.8 |              |                     |       |        |
| REV                                 | DATE  | BY                | REMARKS  | CK. APP.           | APPROVED SFP | DWG. NO. LR-22110-0 | SH. 1 | REV. 0 |






LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |         |
|----|---------|
| BV | 122-05  |
| BV | 122-06  |
| BV | 122-11  |
| BV | 68-03   |
| IV | 68-06   |
| IV | 68-09   |
| IV | 201-10  |
| IV | 122-03  |
| IV | 83.1-12 |

NOTES:  
1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.  
2) CRESCENT ARMORED TUBING  
REFERENCE DRAWING:  
P&I DIAGRAM: C-18014-C, C-18041-C, SH.7  
C-18045-C, SH.9 & C-18006-C, SH.2

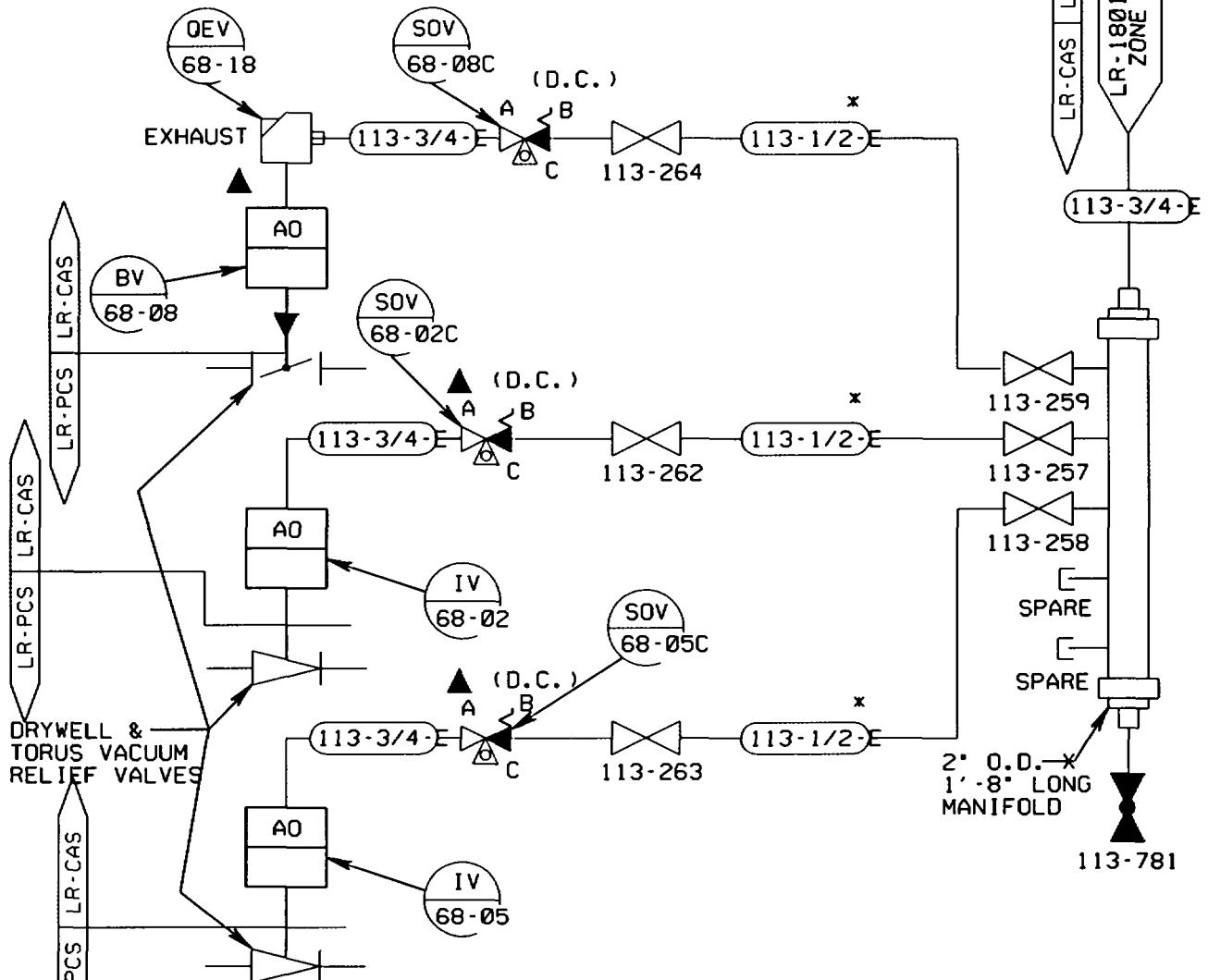
 **CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1**

**INSTRUMENT AIR SUPPLY  
REACTOR BUILDING  
EL. 237'-0" @ COLUMN "N-11"**

|          |     |          |            |       |      |
|----------|-----|----------|------------|-------|------|
| DR.      | TR. | CK.      | DATE       | SCALE | NONE |
| APPROVED |     | APPROVED |            | INDEX |      |
| APPROVED |     | DWG. NO. | LR-22110-0 | SH.   | 2    |
|          |     | REV.     | 0          |       |      |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|-----|------|----|---------|-----|------|

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



|    |       |
|----|-------|
| BV | 68-08 |
| IV | 68-05 |
| IV | 68-02 |

NOTES:

- 1) FOR GENERAL NOTES SEE DWG. A-22100-C, SHEET 1 & 2.
- 2) ▲ NIPPLE MOUNT 3-WAY SOLENOID VALVE OR QUICK EXHAUST VALVE ON MAIN VALVE SUCH THAT IT DOES NOT INTERFERE WITH MAINTENANCE AND VALVE OPERATION.
- 3) \* CRESCENT ARMORED TUBING

REFERENCE DRAWING:

P&I DIAGRAM C-18006-C (S18.8)

 CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT # 1

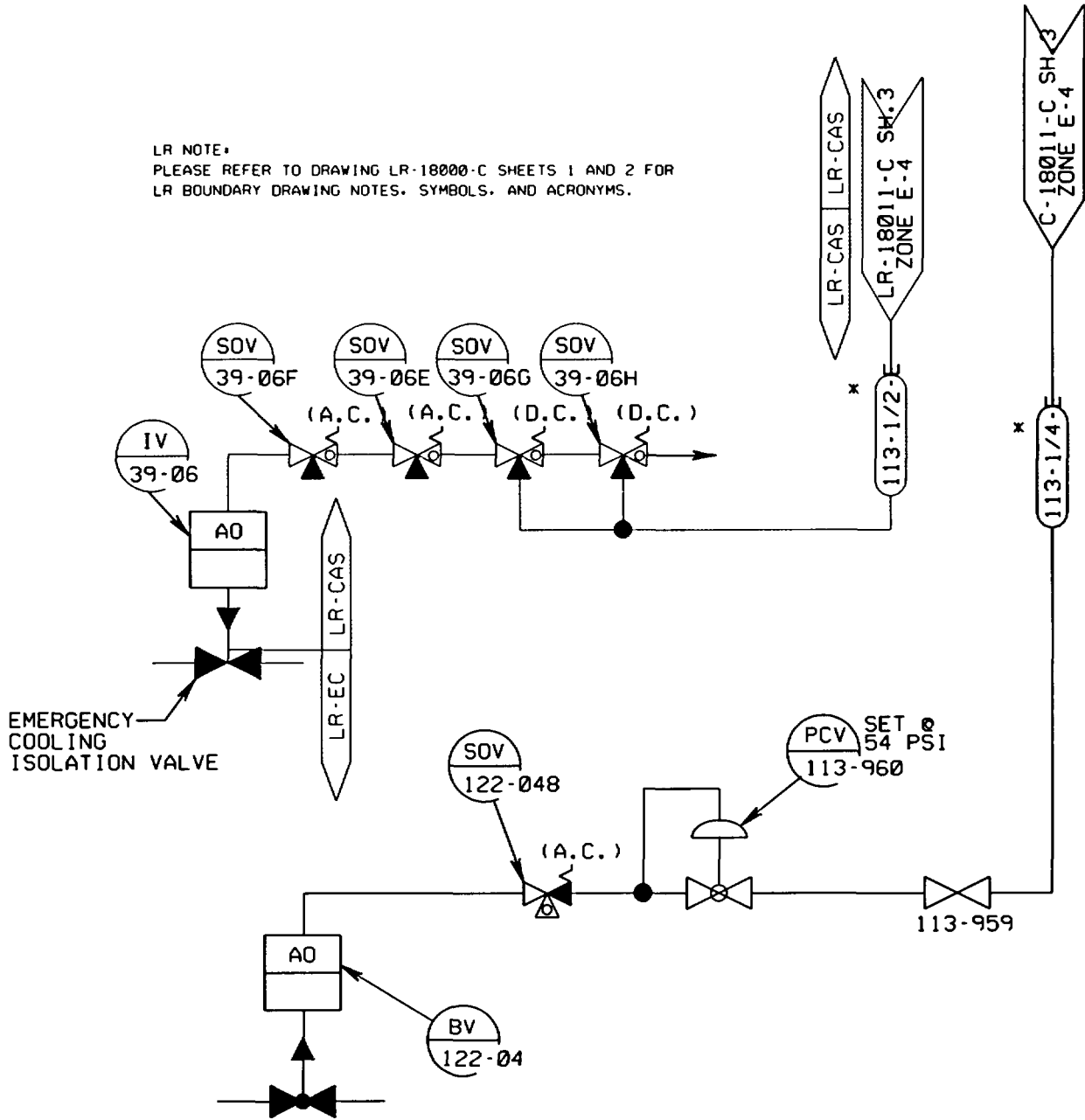
INSTRUMENT AIR SUPPLY  
REACTOR BUILDING

EL. 237'-0" @ COLUMN "P-8"

|          |     |          |            |              |
|----------|-----|----------|------------|--------------|
| DR. RFN  | TR. | CK. BG   | DATE       | SCALE        |
|          |     |          | 11-13-07   | NONE         |
| APPROVED | COR | APPROVED | JL HIKLE   | INDEX        |
|          |     |          |            | 3-N2.1-S18.8 |
| APPROVED | SFP | DWG. NO. | LR-22110-0 | SH. 6        |
|          |     |          |            | REV. 0       |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.

2)\* CRESCENT ARMORED TUBING

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18017-C (S14)

P&I DIAGRAM\* C-18041-C, SH.7 (S18.9)

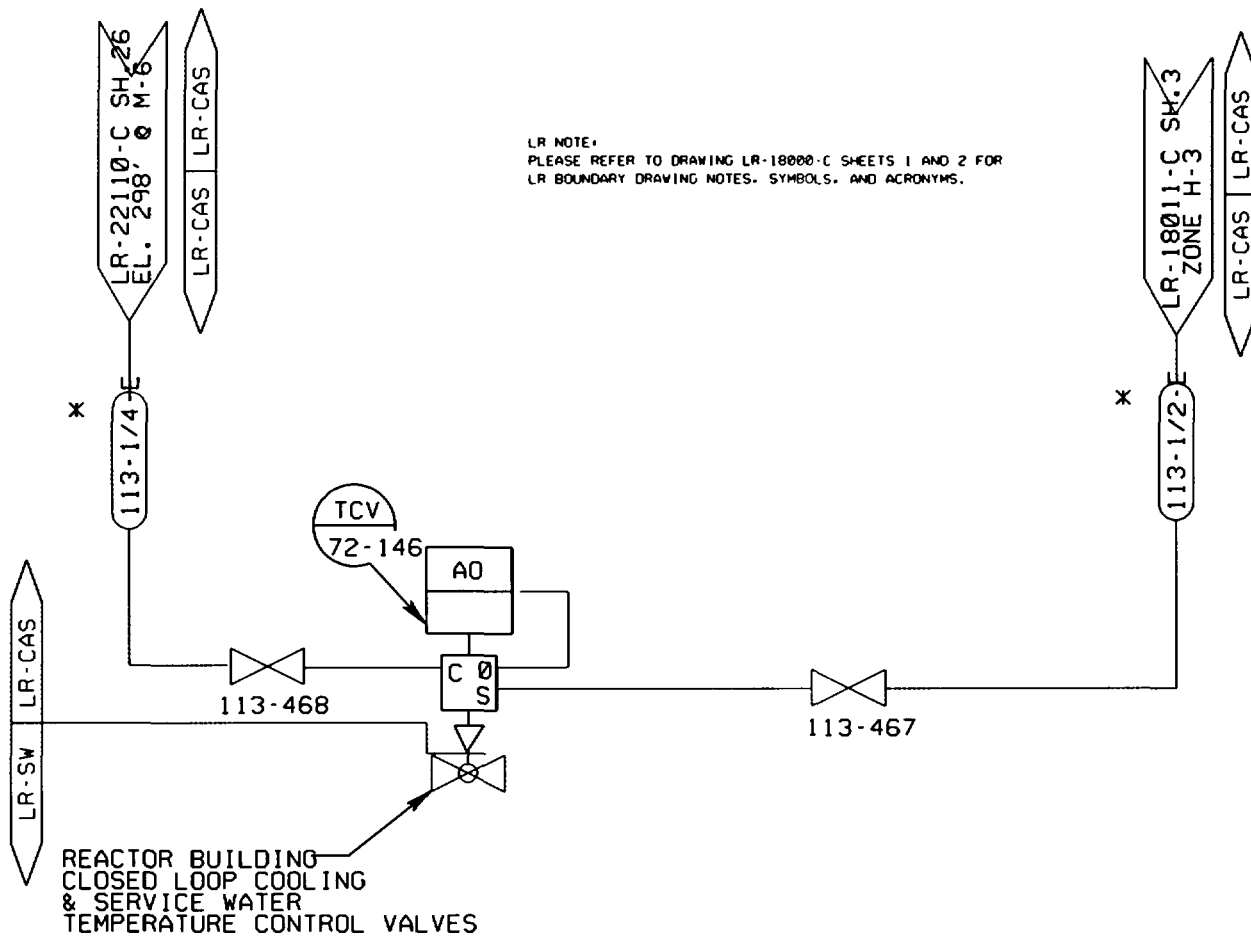
|    |        |
|----|--------|
| BV | 122-04 |
| IV | 39-06  |

 **CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT \*1**

**INSTRUMENT AIR SUPPLY  
REACTOR BUILDING  
EL. 281'-0" @ COLUMN "N-8"**

|              |     |                     |                    |            |
|--------------|-----|---------------------|--------------------|------------|
| DR. RFN      | TR. | CK. BG              | DATE 11-13-67      | SCALE NONE |
| APPROVED COR |     | APPROVED JL HIKLE   | INDEX 3-N2.1-S18.8 |            |
| APPROVED SFP |     | DWG. NO. LR-22110-0 | SH. 14             | REV. 0     |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
|     |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.


**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2)X CRESENT ARMORED TUBING

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18022-C SH. 1 (S15)

TCV 72-146

 **CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1**

**INSTRUMENT AIR SUPPLY**  
**REACTOR BUILDING**  
**EL. 281'-0" @ COLUMN "P-12"**

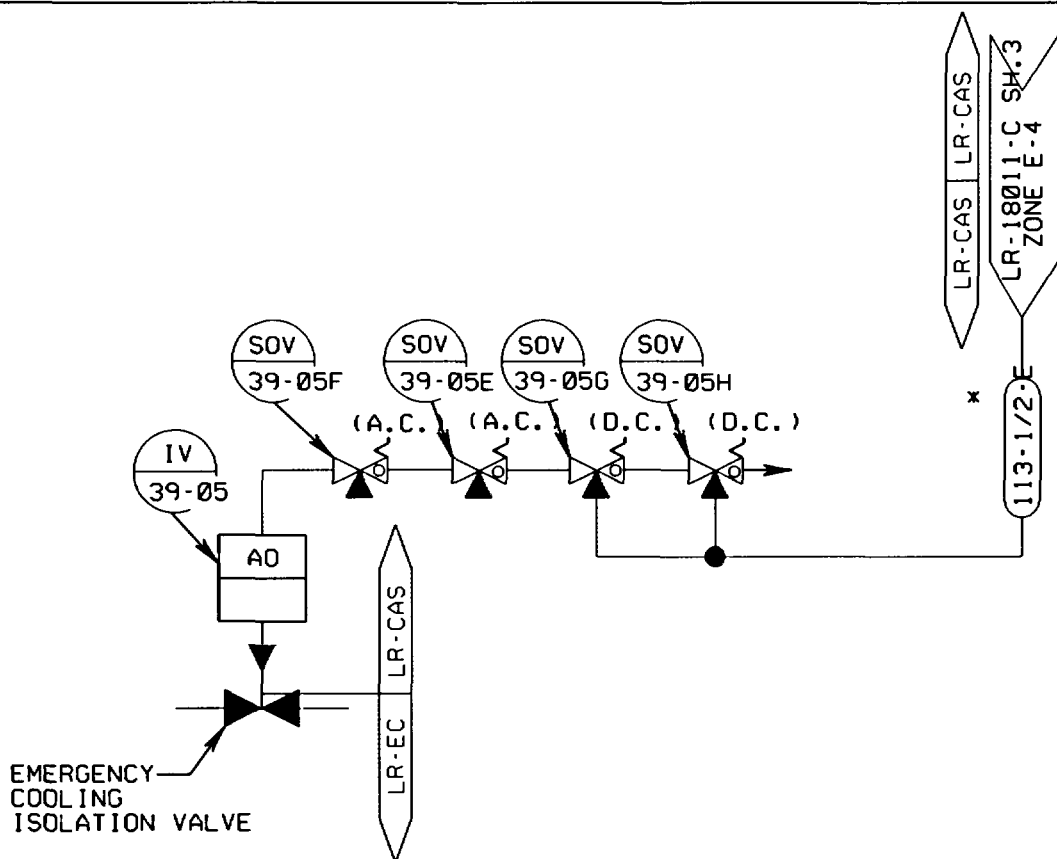
|         |     |        |          |       |
|---------|-----|--------|----------|-------|
| DR. RFN | TR. | CK. BG | DATE     | SCALE |
|         |     |        | 11-13-87 | NONE  |

|          |     |          |          |       |              |
|----------|-----|----------|----------|-------|--------------|
| APPROVED | COR | APPROVED | JL HIKLE | INDEX | 3-N2.1-S18.8 |
|----------|-----|----------|----------|-------|--------------|

|          |     |          |           |     |    |      |   |
|----------|-----|----------|-----------|-----|----|------|---|
| APPROVED | SFP | DWG. NO. | A-22110-C | SH. | 15 | REV. | 0 |
|----------|-----|----------|-----------|-----|----|------|---|

|   |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| 0 |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

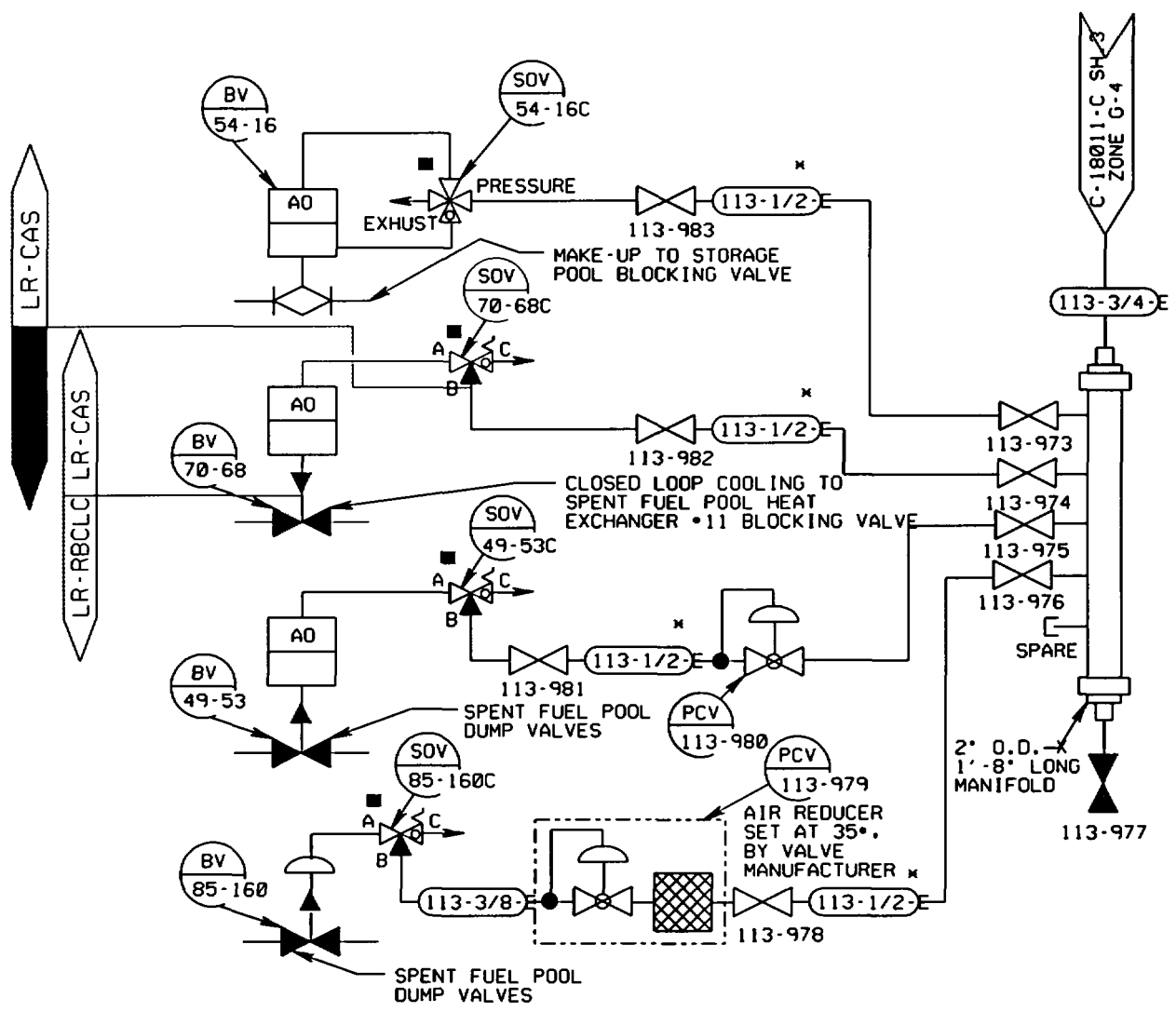
**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2)\* CRESCENT ARMORED TUBING

REFERENCE DRAWING:  
P&I DIAGRAM C-18017-C (S14)

|    |       |
|----|-------|
| IV | 39-05 |
|----|-------|

|                             |  |          |            |              |
|-----------------------------|--|----------|------------|--------------|
|                             | CONSTELLATION NINE MILE POINT ENERGY GROUP |          | UNIT #1    |              |
|                             | INSTRUMENT AIR SUPPLY                      |          |            |              |
| REACTOR BUILDING            |  |          |            |              |
| EL. 281' -0" @ COLUMN "N-8" |  |          |            |              |
| DR. RFN                     | TR.  | CK. BG   | DATE       | SCALE        |
|                             |  |          | 11-13-87   | NONE         |
| APPROVED                    | COR  | APPROVED | JL HIKLE   | INDEX        |
|                             |  |          |            | 3-N2.1-S18.8 |
| REV                         | DATE                                       | BY       | REMARKS    | CK. APP.     |
|                             |  |          |            | APPROVED     |
|                             |  |          |            | SFP          |
|                             |  |          | DWG. NO.   | SH.          |
|                             |  |          | LR-22110-0 | 16           |
|                             |  |          |            | REV.         |
|                             |  |          |            | 0            |



LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |        |
|----|--------|
| BV | 49-53  |
| IV | 54-16  |
| IV | 70-68  |
| IV | 85-160 |

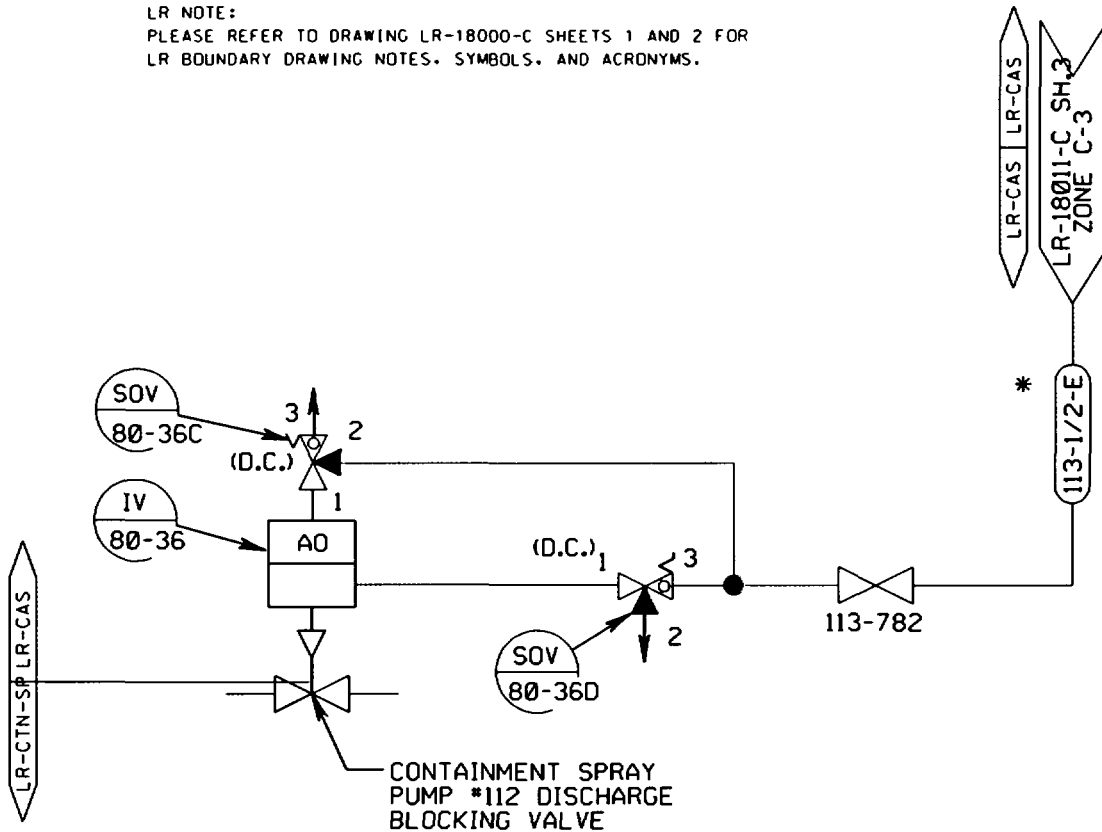
**NOTES:**  
 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.  
 2)\* CRESENT ARMORED TUBING  
 3 ■ SOLENOID VALVE BY VALVE MANUFACTURER

**REFERENCE DRAWING:**  
 P&I DIAGRAM C-18008-C (S14)

|          |   |                        |                 |                       |
|----------|---|------------------------|-----------------|-----------------------|
|          | <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |                        | <b>UNIT # 1</b> |                       |
|          | <b>INSTRUMENT AIR SUPPLY</b>                      |                        |                 |                       |
|          | <b>REACTOR BUILDING</b>                           |                        |                 |                       |
|          | <b>EL. 281'-0" @ COLUMN "M-11"</b>                |                        |                 |                       |
| DR.      | TR.   | CK.                    | DATE            | SCALE<br>NONE         |
| APPROVED |   | APPROVED               |                 | INDEX<br>3-N2.1-S18.8 |
| APPROVED |   | DWG. NO.<br>LR-22110-0 | SH.<br>19       | REV.<br>0             |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



NOTES:

- 1) VALVE FAILS OPEN ON LOSS OF ELECTRICAL POWER.
- 2) VALVE FAILS AS IS ON LOSS OF INSTRUMENT AIR.
- 3) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 4) \* CRESCENT ARMORED TUBING

REFERENCE DRAWING:  
P&I DIAGRAM\* C-18012-C, SH.2 (S14)

|    |       |
|----|-------|
| IV | 80-36 |
|----|-------|

CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

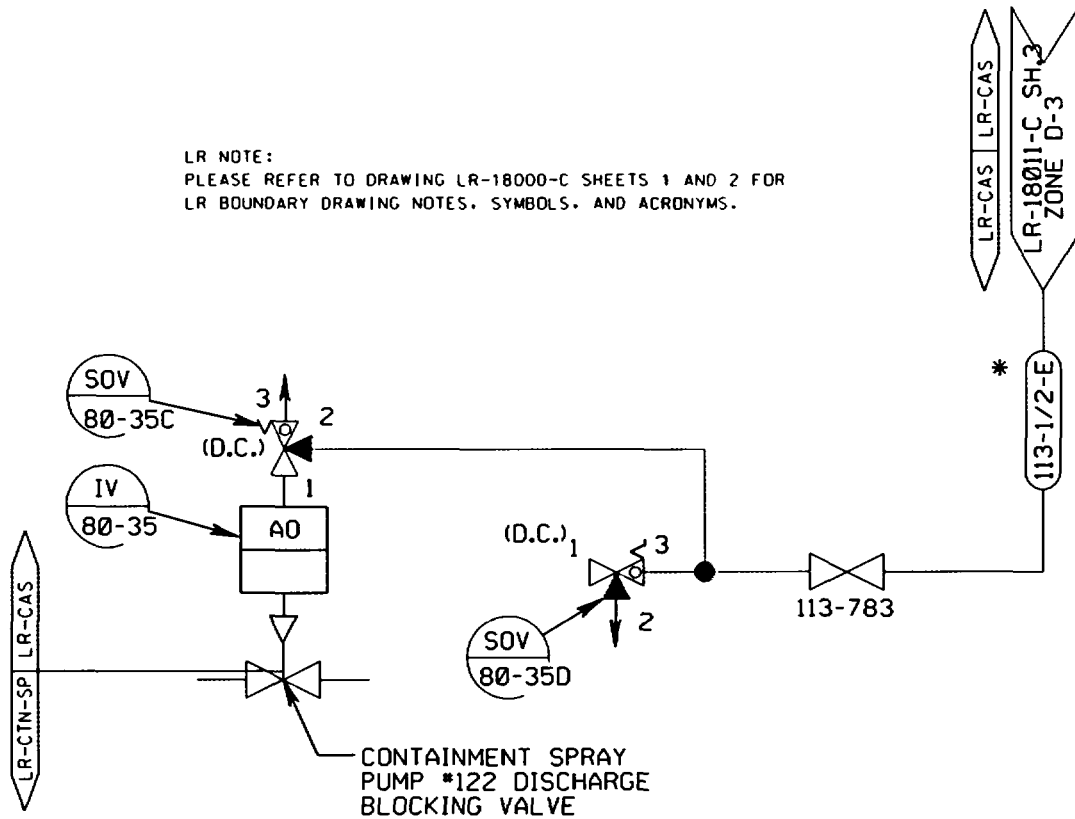
INSTRUMENT AIR SUPPLY  
REACTOR BUILDING  
EL. 281'-0" @ COLUMN "L-7"

|         |     |        |          |       |
|---------|-----|--------|----------|-------|
| DR. RFN | TR. | CK. BG | DATE     | SCALE |
|         |     |        | 11-13-67 | NONE  |

|              |     |          |          |       |              |
|--------------|-----|----------|----------|-------|--------------|
| LAK APPROVED | COR | APPROVED | JL HIKLE | INDEX | 3-N2.1-S18.8 |
|--------------|-----|----------|----------|-------|--------------|

|     |      |    |         |          |          |     |          |            |     |    |      |   |
|-----|------|----|---------|----------|----------|-----|----------|------------|-----|----|------|---|
| REV | DATE | BY | REMARKS | CK. APP. | APPROVED | SFP | DWG. NO. | LR-22110-0 | SHL | 20 | REV. | 0 |
|-----|------|----|---------|----------|----------|-----|----------|------------|-----|----|------|---|

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

- 1) VALVE FAILS OPEN ON LOSS OF ELECTRICAL POWER.
- 2) VALVE FAILS AS IS ON LOSS OF INSTRUMENT AIR.
- 3) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 4) \* CRESCENT ARMORED TUBING

REFERENCE DRAWING:  
P&I DIAGRAM\* C-18012-C, SH.2 (S14)

IV 80-35



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

INSTRUMENT AIR SUPPLY  
REACTOR BUILDING

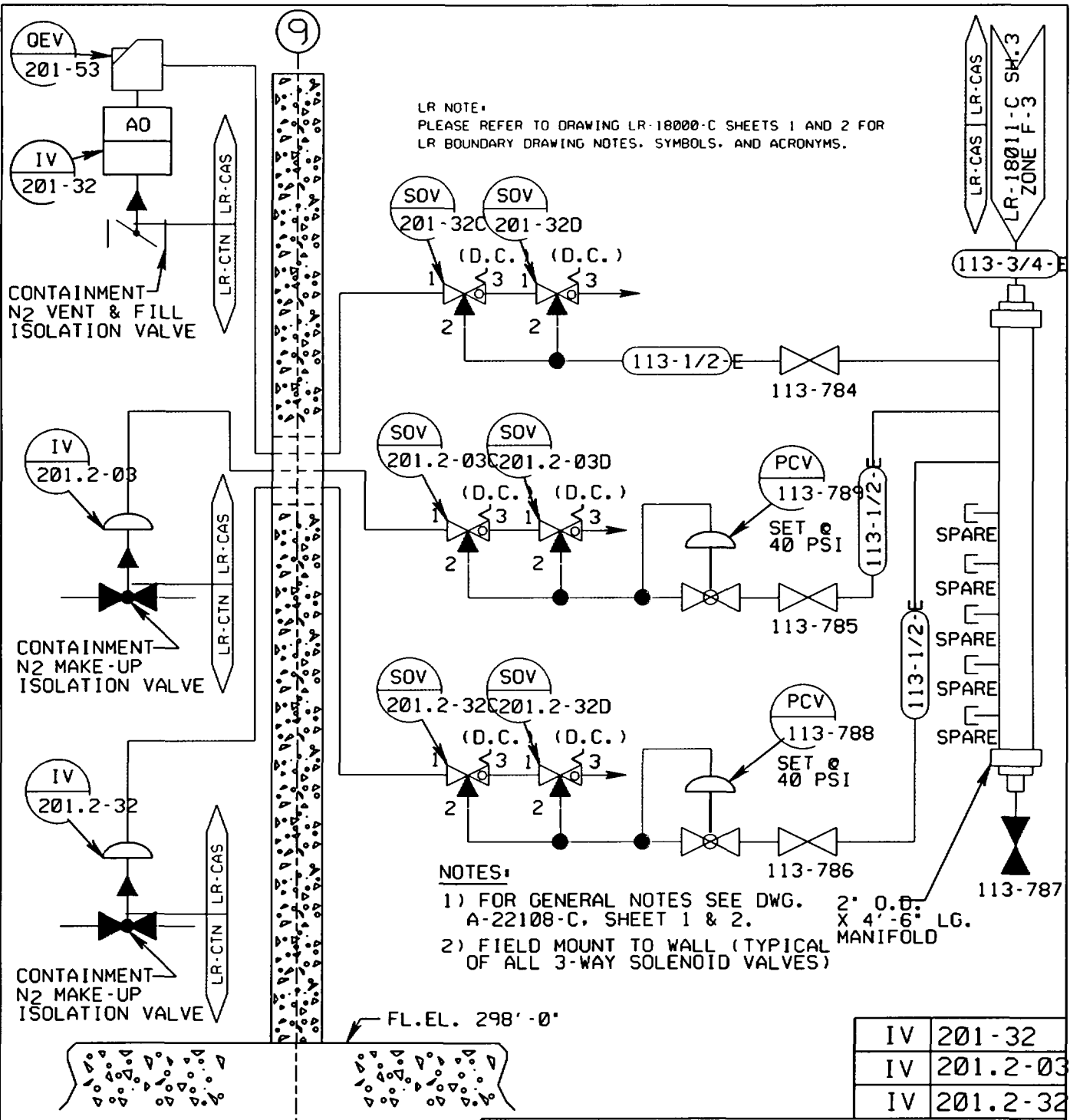
EL. 281'-0" @ COLUMN "N-7"

|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

|                    |     |                     |          |        |
|--------------------|-----|---------------------|----------|--------|
| DR. RFN            | TR. | CK. BG              | DATE     | SCALE  |
| APPROVED COR       |     | APPROVED JL HIKLE   | 11-13-67 | NONE   |
| APPROVED SFP       |     | DWG. NO. LR-22110-0 | SH. 21   | REV. 0 |
| INDEX 3-N2.1-S18.8 |     |                     |          |        |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|-----|------|----|---------|-----|------|





LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

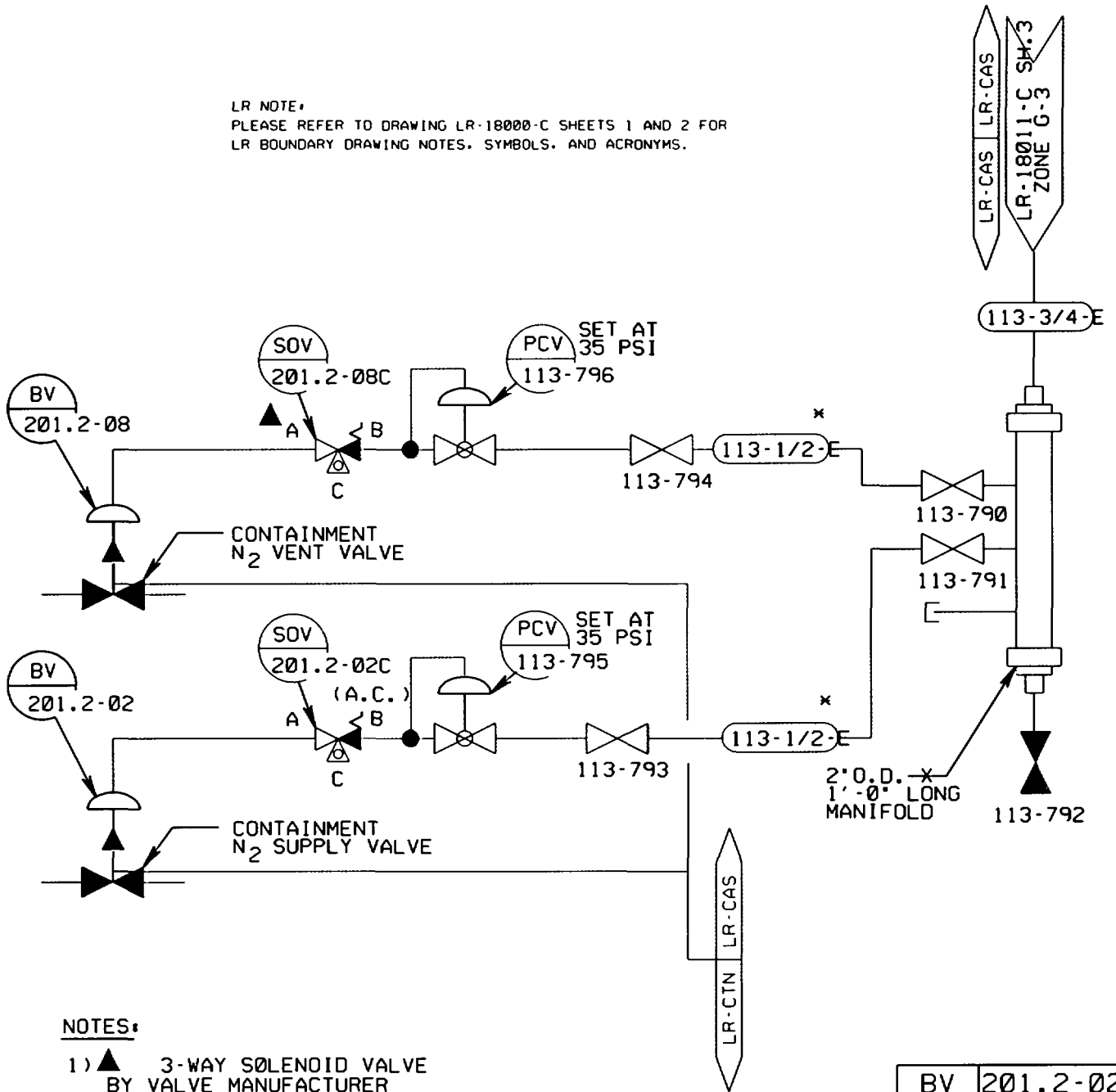
- NOTES:
- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
  - 2) FIELD MOUNT TO WALL (TYPICAL OF ALL 3-WAY SOLENOID VALVES)
- 2" O.D.  
X 4'-6" LG.  
MANIFOLD

REFERENCE DRAWING:  
P&I DIAGRAM C-18014-C, SH.1 (S10)

|    |          |
|----|----------|
| IV | 201-32   |
| IV | 201.2-03 |
| IV | 201.2-32 |

|   |      |                   |               |   |                                   |
|---|------|-------------------|---------------|---|-----------------------------------|
| <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |      |                   |               | UNIT #1   |                                   |
|   |      |                   |               | <b>INSTRUMENT AIR SUPPLY</b><br><b>REACTOR BUILDING</b><br>EL. 298'-0" @ COLUMN "N-9" |                                   |
| DR. RWK   | TR.  | CK. BG            | DATE 11-13-87 | SCALE NONE  |                                   |
| APPROVED COR                                      |      | APPROVED JL HIKLE |               | INDEX 3-N2.1-S18.8  |                                   |
| REV   | DATE | BY                | REMARKS       | CK. APP. APPROVED SFP   | DWG. NO. LR-22110-0 SH. 22 REV. 0 |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

- 1) ▲ 3-WAY SOLENOID VALVE BY VALVE MANUFACTURER
- 2) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 3)\* CRESCENT ARMORED TUBING

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18014-C, SH.1 (S10)

|    |          |
|----|----------|
| BV | 201.2-02 |
| BV | 201.2-08 |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

INSTRUMENT AIR SUPPLY

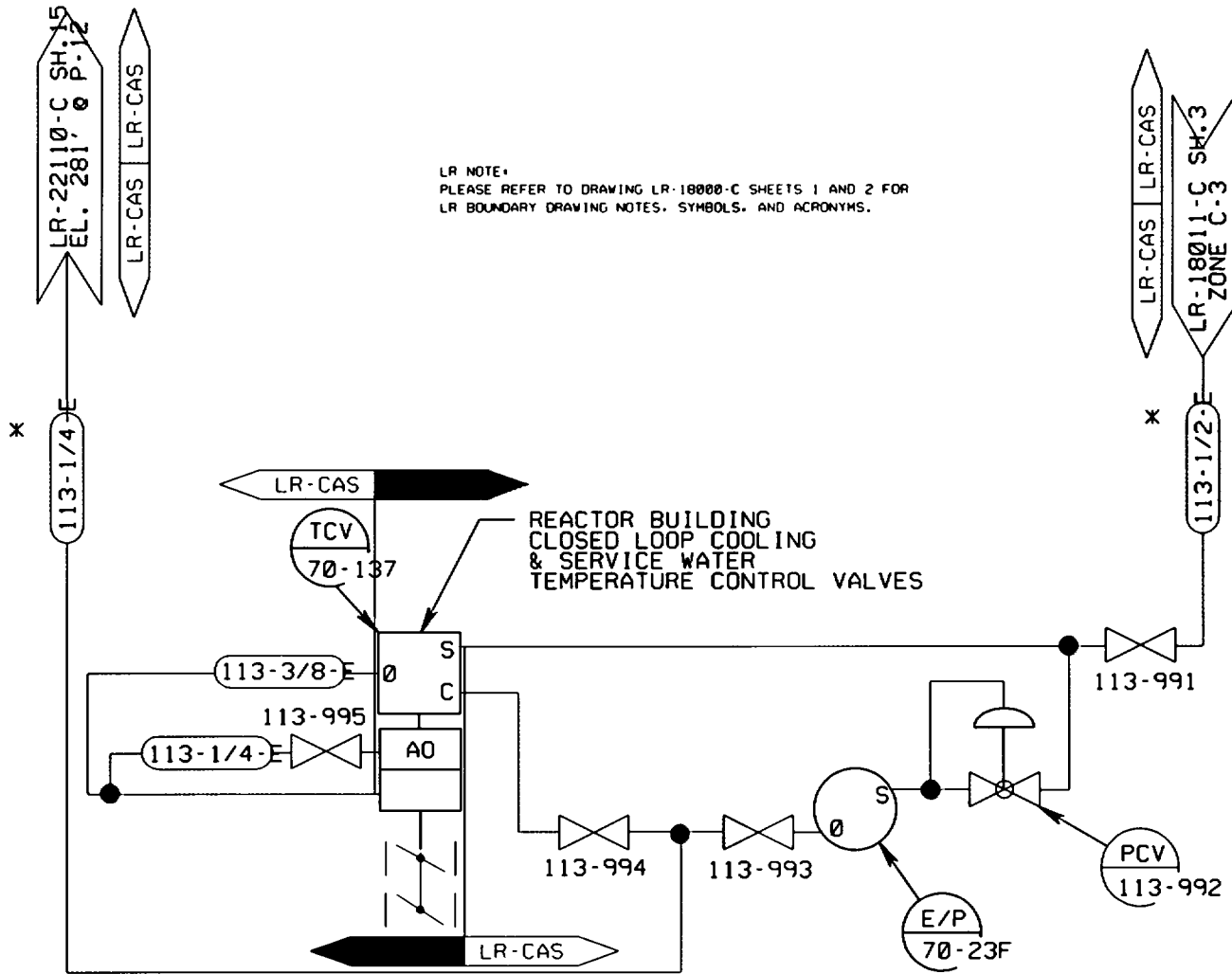
REACTOR BUILDING

EL. 298'-0" @ COLUMN "N-10"

|          |     |          |            |              |
|----------|-----|----------|------------|--------------|
| DR. RFN  | TR. | CK. BG   | DATE       | SCALE        |
|          |     |          | 11-13-87   | NONE         |
| APPROVED | COR | APPROVED | JL HIKLE   | INDEX        |
|          |     |          |            | 3-N2.1-S18.8 |
| APPROVED | SFP | DWG. NO. | LR-22110-0 | SH. 23       |
|          |     |          |            | REV. 0       |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|-----|------|----|---------|-----|------|



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2)\* CRESNET ARMORED TUBING

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18022-C SH. 1 (S15)

TCV 70-137



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT \*1

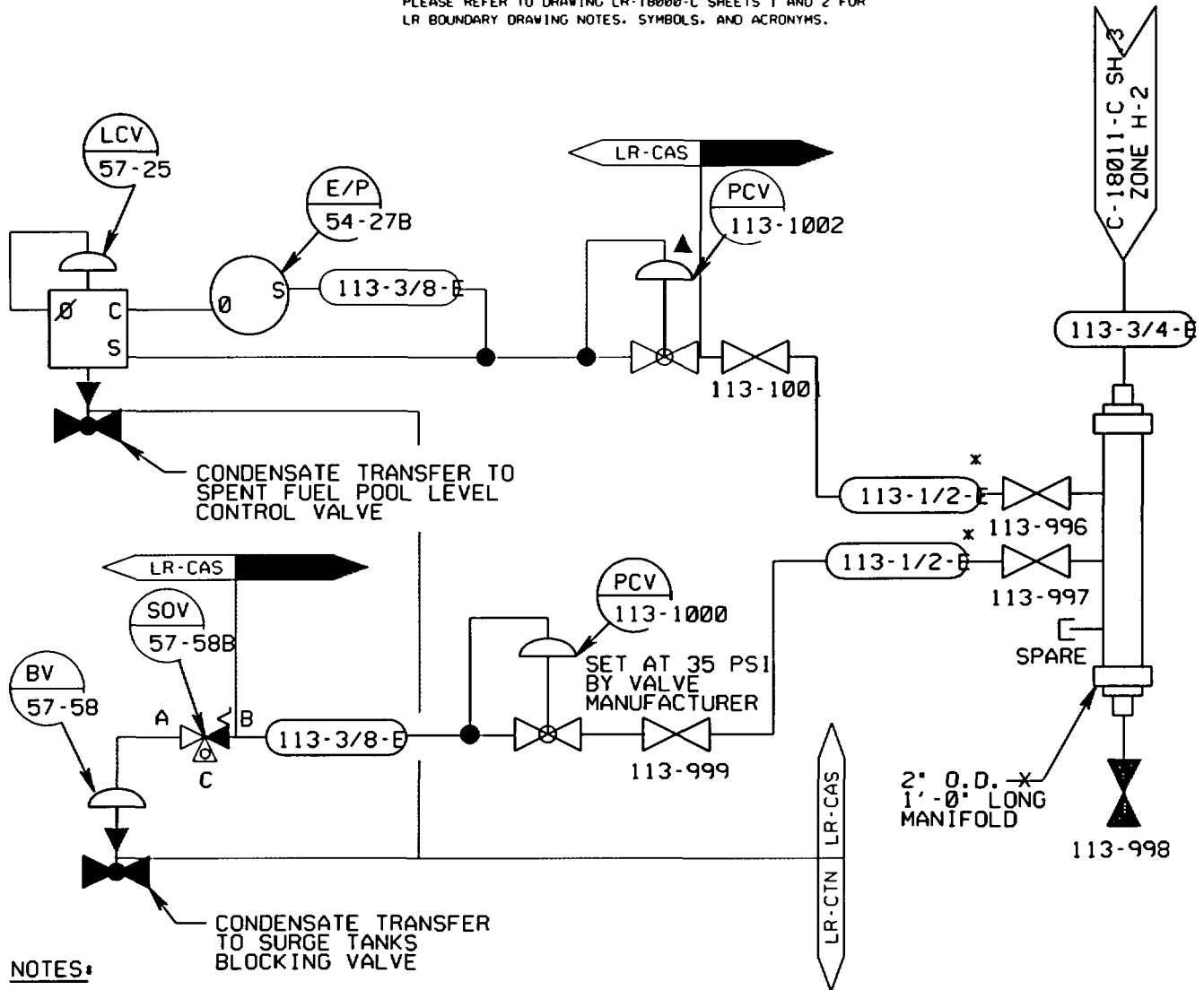
INSTRUMENT AIR SUPPLY

REACTOR BUILDING

EL. 298'-0" @ COLUMN "M-6"

|             |      |          |          |              |
|-------------|------|----------|----------|--------------|
| DR. RFN     | TR.  | CK. BG   | DATE     | SCALE        |
|             |      |          | 11-13-87 | NONE         |
| PB APPROVED | COR  | APPROVED | JL HIKLE | INDEX        |
|             |      |          |          | 3-N2.1-S18.8 |
| REV         | DATE | BY       | REMARKS  | CK. APP.     |
|             |      |          |          | APPROVED     |
|             |      |          |          | SFP          |
|             |      |          |          | DWG. NO.     |
|             |      |          |          | LR-22110-0   |
|             |      |          |          | SH.          |
|             |      |          |          | 26           |
|             |      |          |          | REV.         |
|             |      |          |          | 0            |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) ▲ AIR REDUCER, SET AT , BY VALVE MANUFACTURER
- 3) x CRESCENT ARMORED TUBING
- 4) ■ 3-WAY SOLENOID VALVE BY VALVE MANUFACTURER

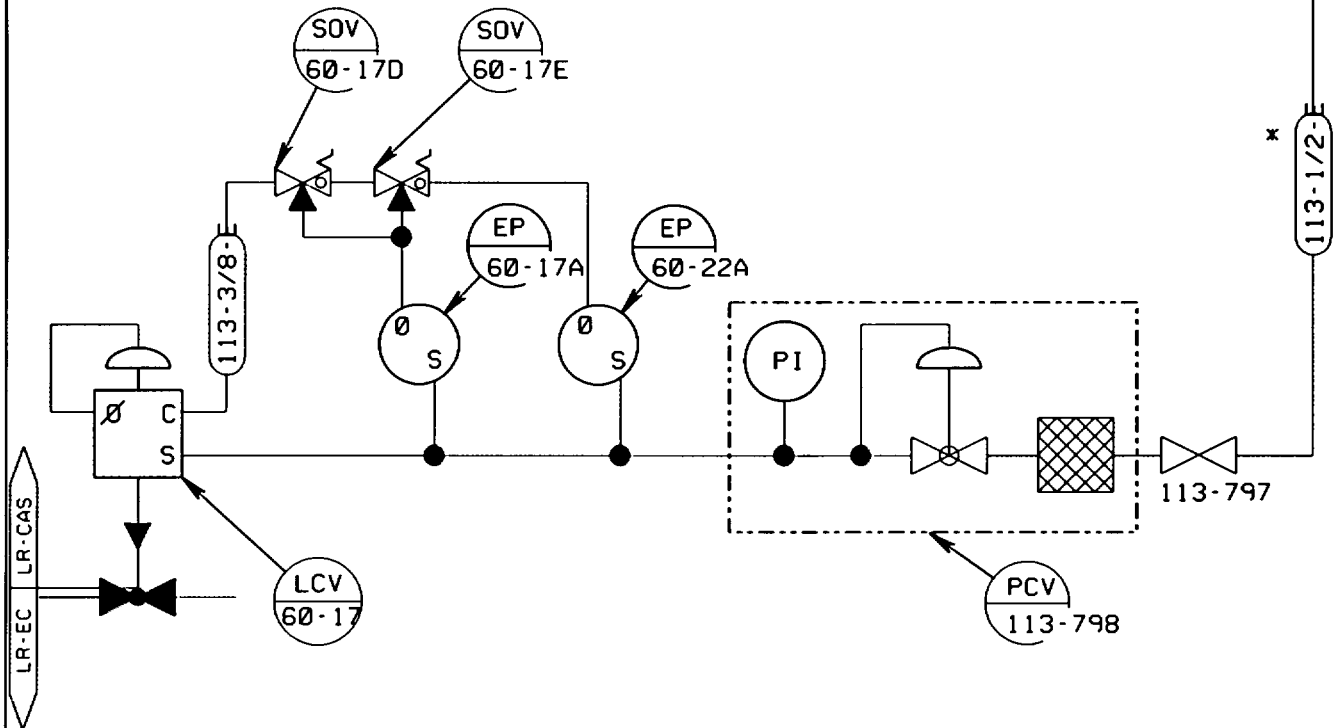
REFERENCE DRAWING:  
P&I DIAGRAM C-18008-C (S14)

|   |     |                   |            |   |              |
|---|-----|-------------------|------------|---|--------------|
|  <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |     |                   |            | UNIT *1   |              |
|   |     |                   |            | <b>INSTRUMENT AIR SUPPLY</b><br><b>REACTOR BUILDING</b><br><b>EL. 318'-0" @ COLUMN "L-12"</b> |              |
| DR. RFN   | TR. | CK. BG            | DATE       | SCALE   |              |
|   |     |                   | 11-13-87   | NONE  |              |
| APPROVED COR  |     | APPROVED JL HIKLE |            | INDEX   | 3-N2.1-S18.8 |
| APPROVED SFP  |     | DWG. NO.          | LR-22110-0 | SH.   | 27           |
|   |     |                   |            | REV.  | 0            |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

LR-CAS LR-CAS  
LR-18011-C SH.3  
ZONE C-1



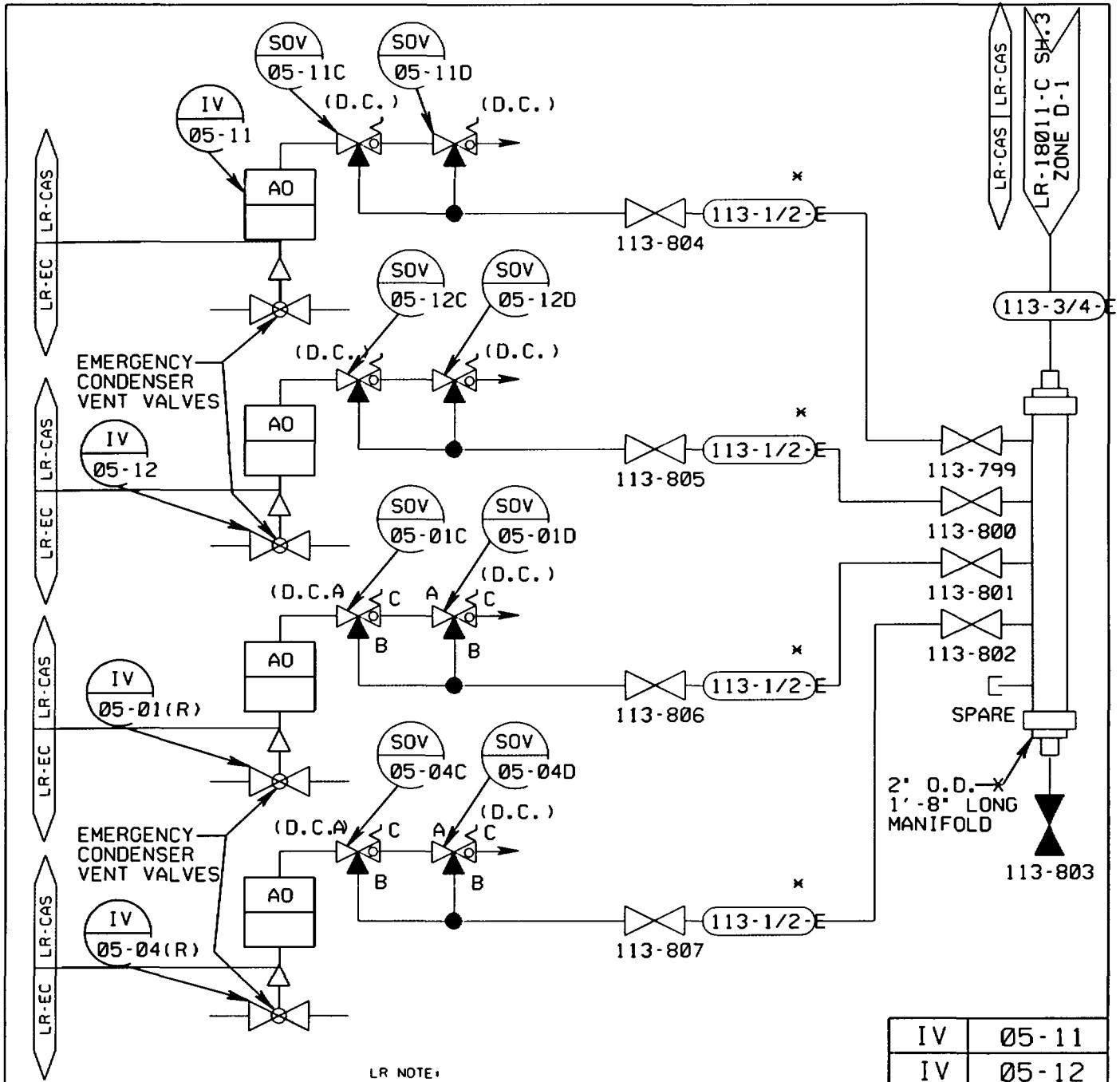
**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) \* CRESCENT ARMORED TUBING

REFERENCE DRAWING:  
P&I DIAGRAM C-18017-C (S14)

LCV 60-17

|                              |      |                               |              |
|------------------------------|------|-------------------------------|--------------|
|                              |      | CONSTELLATION NINE MILE POINT |              |
|                              |      | ENERGY GROUP UNIT #1          |              |
| INSTRUMENT AIR SUPPLY        |      |                               |              |
| REACTOR BUILDING             |      |                               |              |
| EL. 340' - 0" @ COLUMN "Q-7" |      |                               |              |
| DR.                          | TR.  | CK.                           | DATE         |
| APPROVED                     |      | APPROVED                      |              |
| APPROVED                     |      | DWG. NO.                      | SCALE        |
|                              |      | LR-22110-0                    | NONE         |
|                              |      | SH.                           | INDEX        |
|                              |      | 28                            | 3-N2.1-S18.8 |
| REV                          | DATE | BY                            | REMARKS      |
| 0                            |      |                               |              |
| CK.                          | APP. | REV.                          |              |
|                              |      | 0                             |              |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**NOTES:**

1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.

2)\* CRESCENT ARMORED TUBING

**REFERENCE DRAWING:**

P&I DIAGRAM C-18017-C (S14)

|    |          |
|----|----------|
| IV | 05-11    |
| IV | 05-12    |
| IV | 05-04(R) |
| IV | 05-01(R) |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT \*1

INSTRUMENT AIR SUPPLY

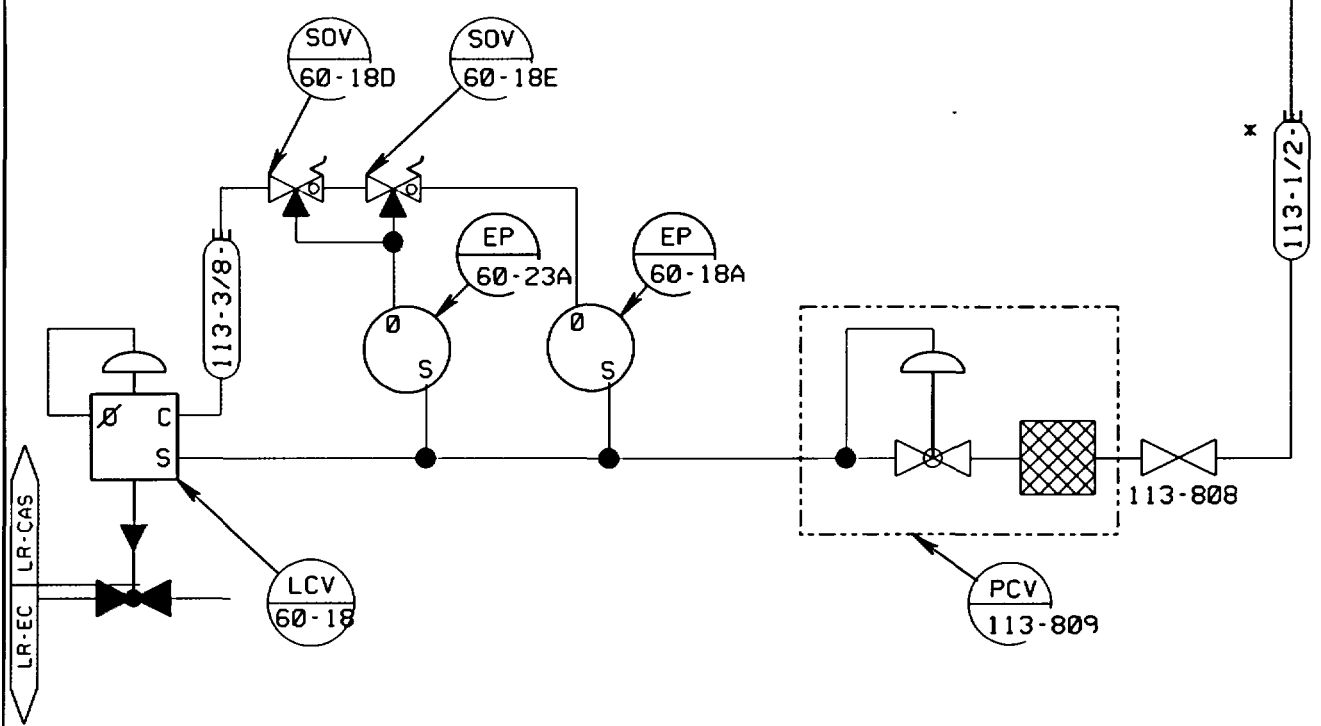
REACTOR BUILDING

EL. 340' -0" @ COLUMN "P-8"

|          |      |          |            |              |
|----------|------|----------|------------|--------------|
| DR. RFN  | TR.  | CK. BG   | DATE       | SCALE        |
|          |      |          | 11-13-87   | NONE         |
| APPROVED | COR  | APPROVED | JL HIKLE   | INDEX        |
|          | SFP  | DWG. NO. | LR-22110-0 | 3-N2.1-S18.8 |
| REV      | DATE | BY       | REMARKS    | CK. APP.     |
|          |      |          |            |              |
|          |      |          |            | APPROVED     |
|          |      |          |            | SFP          |
|          |      |          |            | SH. 29       |
|          |      |          |            | REV. 0       |

LR-CAS | LR-CAS  
 LR-18011-C SH.3  
 ZONE E-1

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.




**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2)\* CRESCENT ARMORED TUBING

REFERENCE DRAWING:  
 P&I DIAGRAM C-18017-C (S14)

LCV 60-18

 CONSTELLATION NINE MILE POINT  
 ENERGY GROUP UNIT \*1

INSTRUMENT AIR SUPPLY

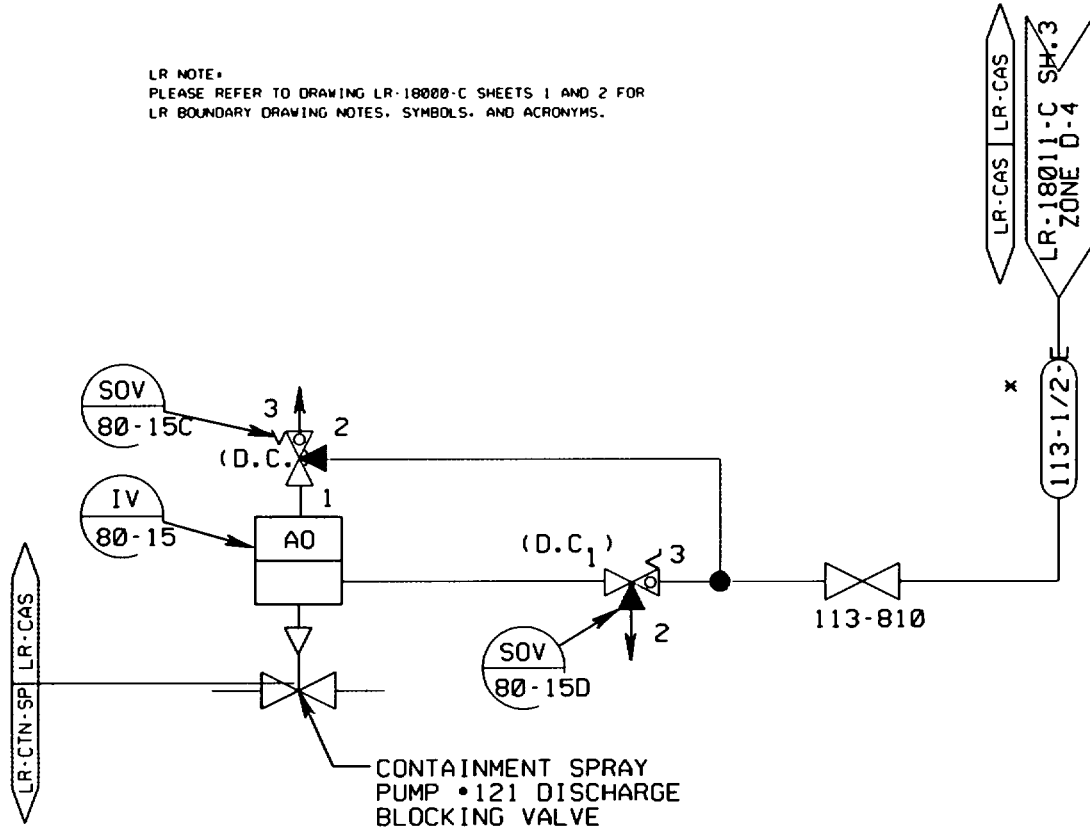
REACTOR BUILDING

EL. 340' - 0" @ COLUMN "Q-9"

|              |     |                     |                    |            |
|--------------|-----|---------------------|--------------------|------------|
| DR. RWK      | TR. | CK. BG              | DATE 11-13-67      | SCALE NONE |
| APPROVED COR |     | APPROVED JL HILKE   | INDEX 3-N2.1-S18.8 |            |
| APPROVED SFP |     | DWG. NO. LR-22110-0 | SH. 30             | REV. 0     |

| 0   |      |    |         |     |      |  |  |  |  |
|-----|------|----|---------|-----|------|--|--|--|--|
| REV | DATE | BY | REMARKS | CK. | APP. |  |  |  |  |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.




**NOTES:**

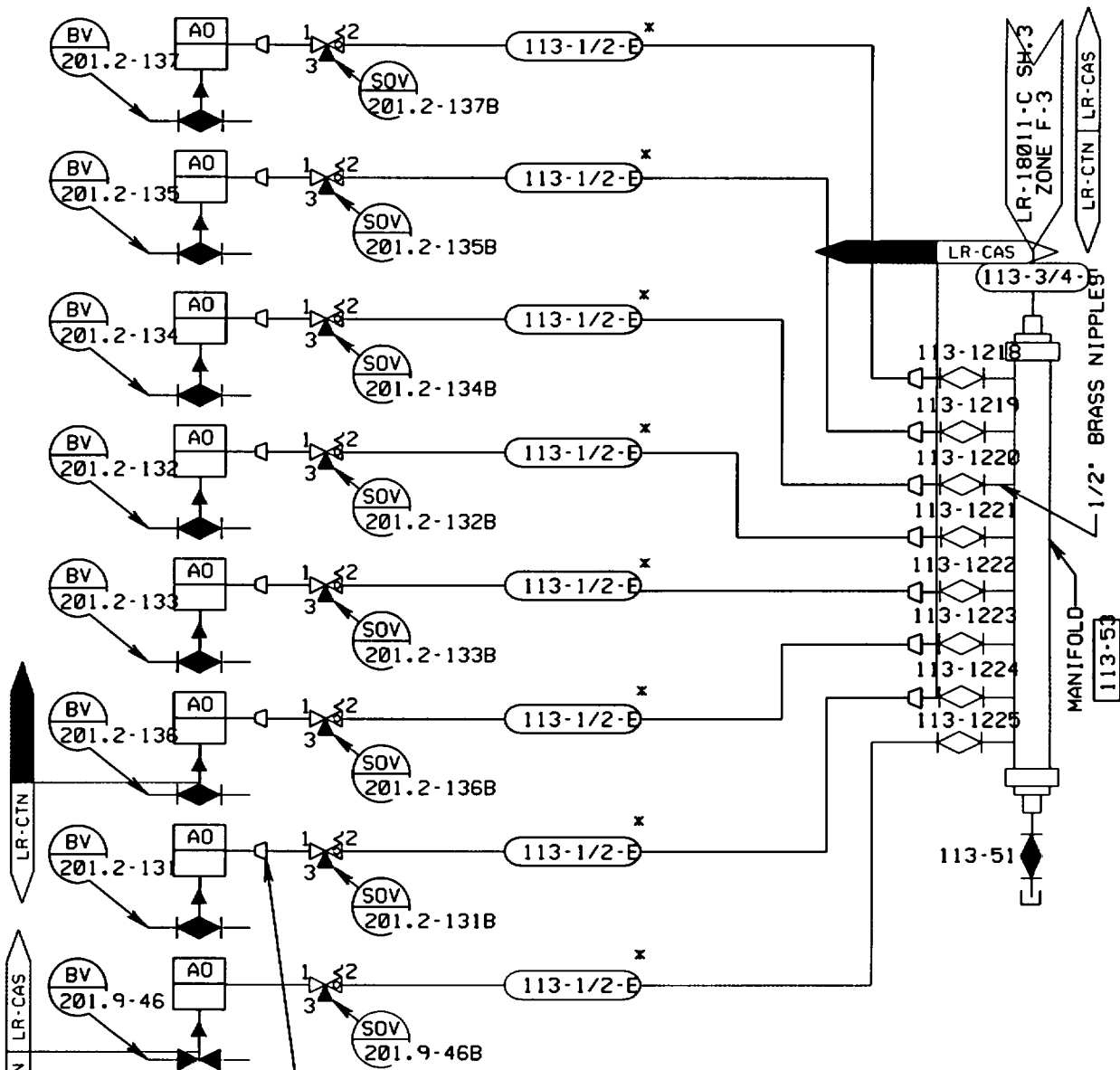
- 1) VALVE FAILS OPEN ON LOSS OF ELECTRICAL POWER.
- 2) VALVE FAILS AS IS ON LOSS OF INSTRUMENT AIR.
- 3) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 4) x CRESCENT ARMORED TUBING

REFERENCE DRAWING:  
P&I DIAGRAM • C-18012-C, SH.2 (S14)

|    |       |
|----|-------|
| IV | 80-15 |
|----|-------|

|   |      |     |          |                 |          |          |              |
|---|------|-----|----------|-----------------|----------|----------|--------------|
|  <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |      |     |          | <b>UNIT • 1</b> |          |          |              |
| <b>INSTRUMENT AIR SUPPLY</b>  |      |     |          |                 |          |          |              |
| <b>REACTOR BUILDING</b>   |      |     |          |                 |          |          |              |
| <b>EL. 281' - 0" @ COLUMN "K-9"</b>   |      |     |          |                 |          |          |              |
| DR.   | RFN  | TR. | CK.      | BG              | DATE     | SCALE    | NONE         |
|   |      |     |          |                 | 11-13-87 |          |              |
| APPROVED  | COR  |     | APPROVED | JL HIKLE        |          | INDEX    | 3-N2.1-S18.8 |
| APPROVED  | SFP  |     | DWG. NO. | LR-22110-0      |          | SH.      | 33           |
| REV   | DATE | BY  | REMARKS  | CK.             | APP.     | APPROVED | REV.         |
|   |      |     |          |                 |          |          | 0            |





SWAGELOK TUBE CONNECTOR (MALE) 1/2" X 1/4" NPT-CAT. NO. B-810-1-4 (TYPICAL 14 PLACES)

|    |           |    |           |
|----|-----------|----|-----------|
| BV | 201.9-46  | BV | 201.2-134 |
| BV | 201.2-131 | BV | 201.2-135 |
| BV | 201.2-132 | BV | 201.2-136 |
| BV | 201.2-133 | BV | 201.2-137 |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**NOTES:**  
 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.  
 2\* CRESCENT ARMORED TUBING  
**REFERENCE DRAWING:**  
 P&I DIAGRAM\* C-18014-C, SH.1 (S10)  
 CONSTRUCTION DWG. C-26950-C SH.1&2 (S22.4)

**CONSTELLATION NINE MILE POINT ENERGY GROUP**

**UNIT \* 1**

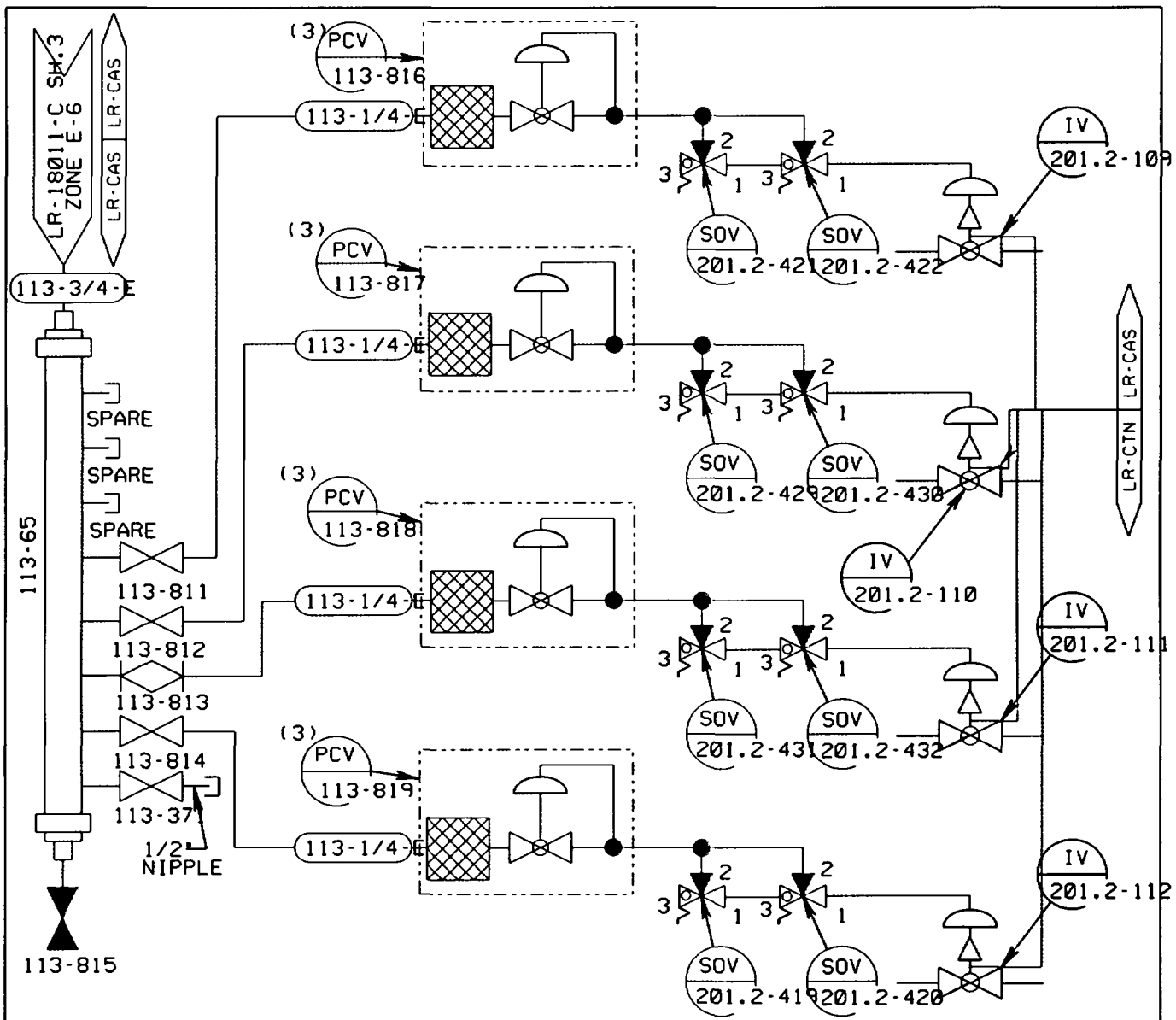
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**INSTRUMENT AIR SUPPLY**

**REACTOR BUILDING**

**EL. 298' - 0" @ COLUMN "N-10"**

|          |      |          |         |              |      |          |            |     |      |
|----------|------|----------|---------|--------------|------|----------|------------|-----|------|
| DR.      | TR.  | CK.      | DATE    | SCALE        |      |          |            |     |      |
|          |      |          |         | NONE         |      |          |            |     |      |
| APPROVED |      | APPROVED |         | INDEX        |      |          |            |     |      |
|          |      |          |         | 3-N2.1-S18.8 |      |          |            |     |      |
| REV      | DATE | BY       | REMARKS | CK.          | APP. | APPROVED | DWG. NO.   | SH. | REV. |
|          |      |          |         |              |      |          | LR-22110-0 | 35  | 0    |




LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

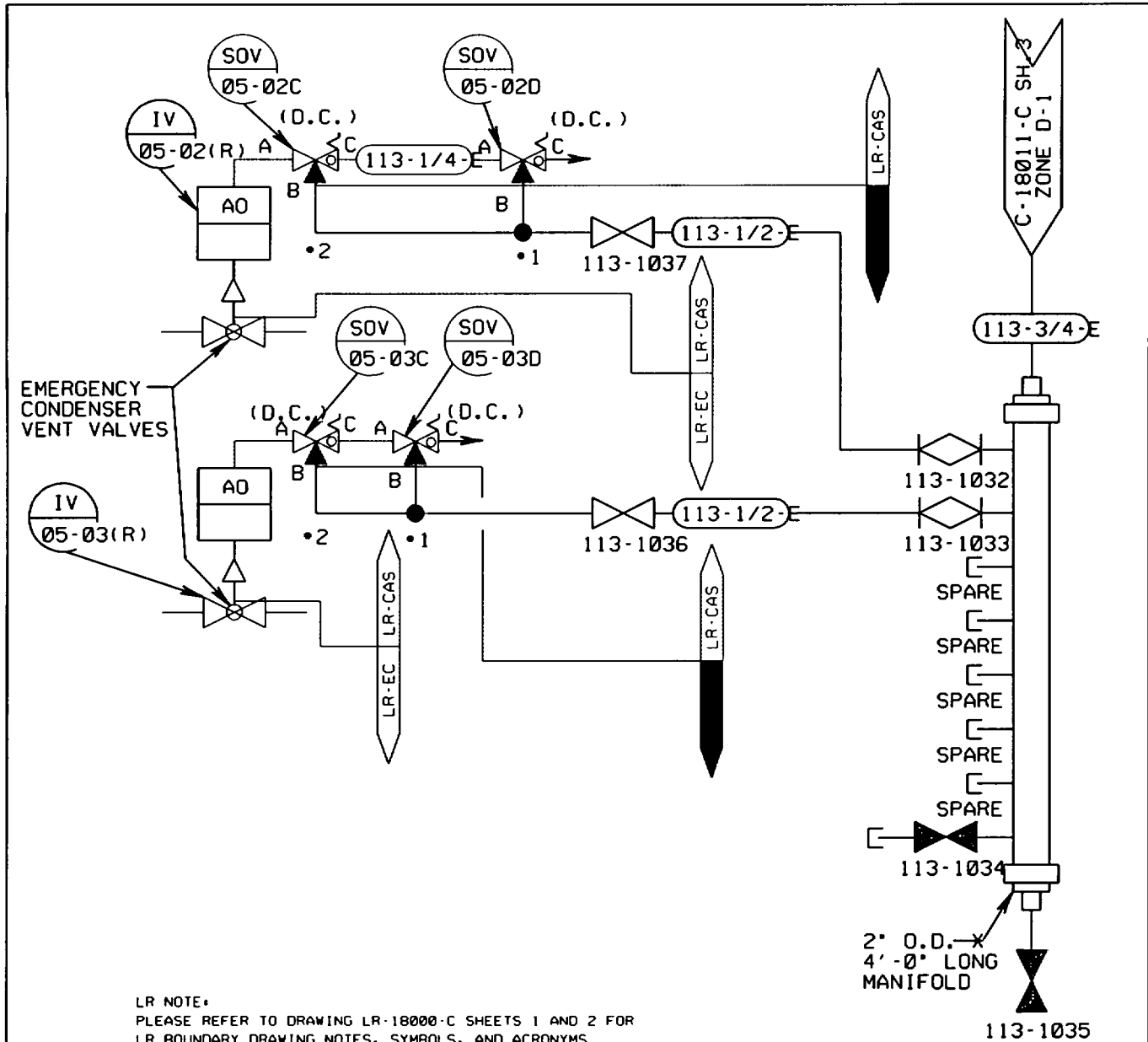
**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
  - 2) FOR REACTOR BUILDING INSTRUMENT AIR SUPPLY SUPPORT DETAILS SEE DWG. B-45126-C (S18.8)
  - 3) FILTER REGULATOR SUPPLIED BY VALVE MANUFACTURER.
- REFERENCE DRAWING:**  
P&I DIAGRAM\* C-18014-C, SH.2 (S10)

|    |           |
|----|-----------|
| IV | 201.2-109 |
| IV | 201.2-110 |
| IV | 201.2-111 |
| IV | 201.2-112 |

|   |   |                     |        |                    |
|---|---|---------------------|--------|--------------------|
|  | <b>CONSTELLATION NINE MILE POINT<br/>ENERGY GROUP</b> | <b>UNIT * 1</b>     |        |                    |
| <b>INSTRUMENT AIR SUPPLY</b>  |   |                     |        |                    |
| <b>REACTOR BUILDING</b>   |   |                     |        |                    |
| <b>EL. 237' -0" @ COLUMN *K-10*</b>   |   |                     |        |                    |
| DR. LMP   | TR.   | CK.                 | DATE   | SCALE NONE         |
| APPROVED  |   | APPROVED            |        | INDEX 3-N2.1-S18.8 |
| APPROVED  |   | DWG. NO. LR-22110-0 | SH. 37 | REV. 0             |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
|     |      |    |         |     |      |




LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |          |
|----|----------|
| IV | 05-02(R) |
| IV | 05-03(R) |

**NOTES:**  
1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.

**REFERENCE DRAWING:**  
P&I DIAGRAM C-18017-C (S14)

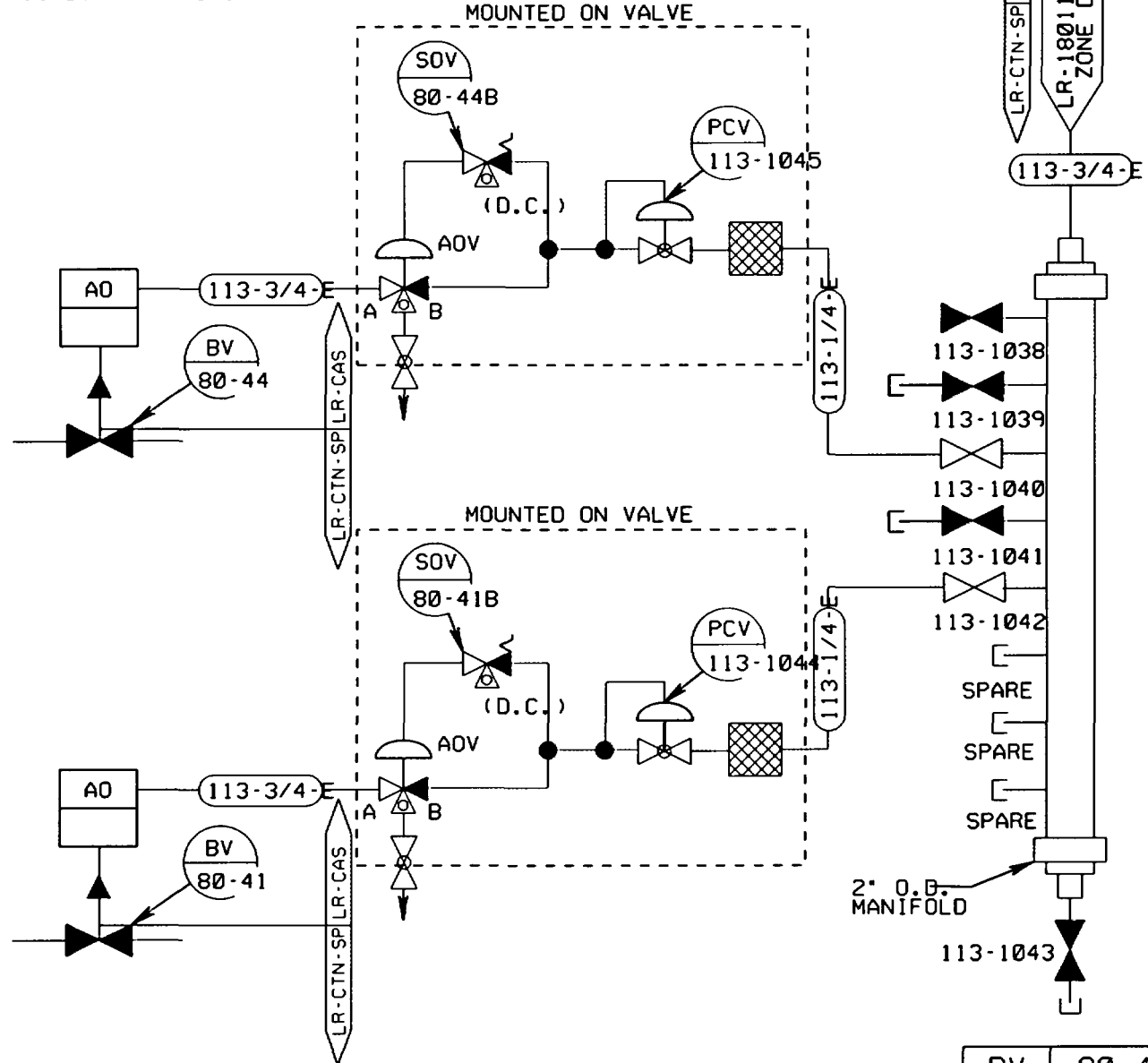
|   |      |                               |              |
|---|------|-------------------------------|--------------|
|  |      | CONSTELLATION NINE MILE POINT |              |
|   |      | ENERGY GROUP UNIT *1          |              |
| INSTRUMENT AIR SUPPLY   |      |                               |              |
| REACTOR BUILDING  |      |                               |              |
| EL. 318'-0" @ COLUMN "P-8"  |      |                               |              |
| DR.   | TR.  | CK.                           | DATE         |
| APPROVED  |      | APPROVED                      |              |
| APPROVED  |      | DWG. NO.                      | SCALE NONE   |
| REV.  | DATE | BY                            | REMARKS      |
| 0   |      |                               |              |
| APPROVED  |      | DWG. NO.                      | INDEX        |
| APPROVED  |      | LR-22110-0                    | 3-N2.1-S18.8 |
| REV.  | DATE | BY                            | REMARKS      |
|   |      |                               |              |
| CK.   | APP. | DWG. NO.                      | SH.          |
|   |      | LR-22110-0                    | 39           |
|   |      |                               | REV. 0       |

**NOTES:**

1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18012-C, SH.2 (S14)

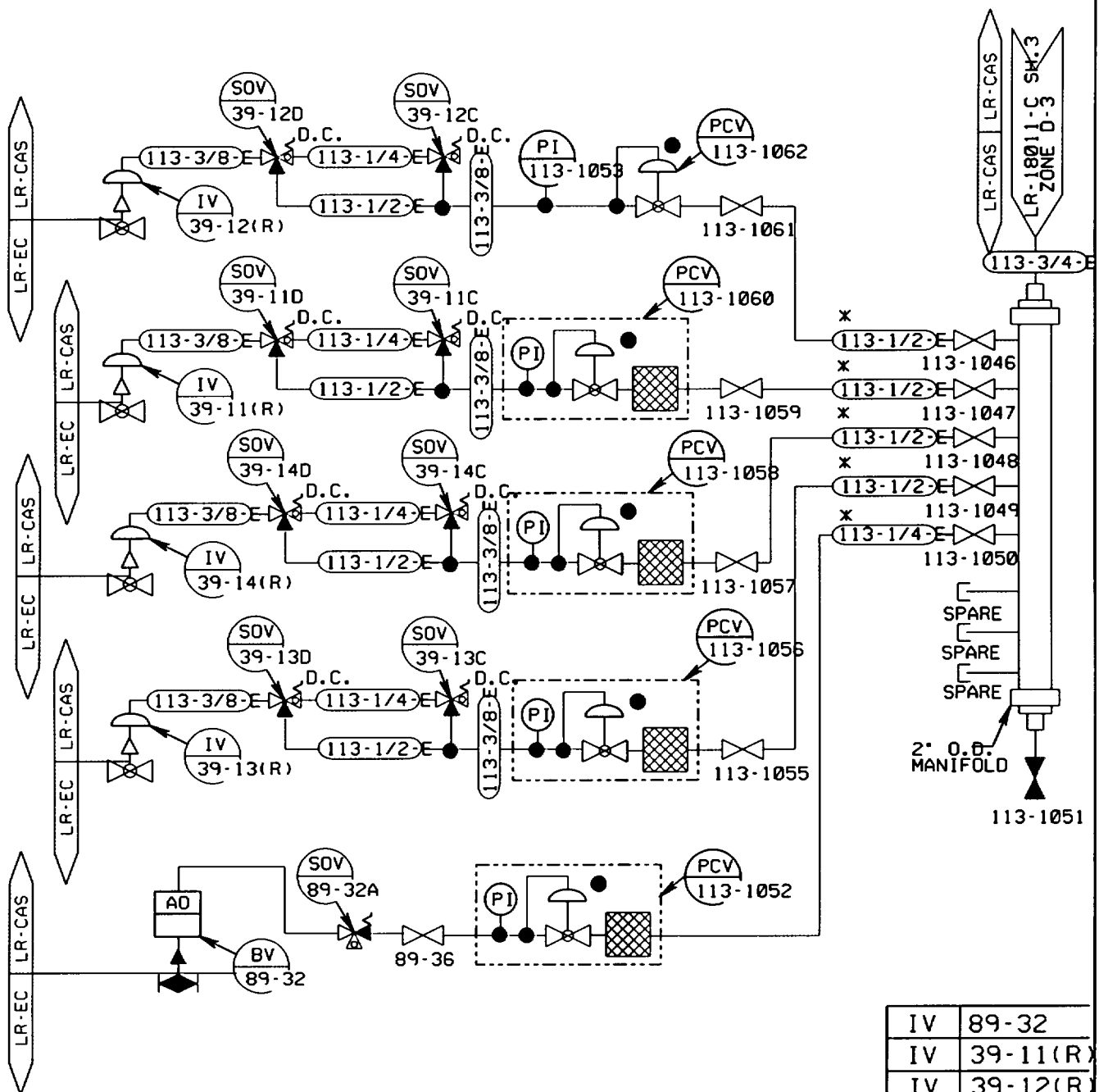


|    |       |
|----|-------|
| BV | 80-41 |
| BV | 80-44 |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|                            |              |                               |            |
|----------------------------|--------------|-------------------------------|------------|
|                            |              | CONSTELLATION NINE MILE POINT |            |
|                            |              | ENERGY GROUP                  |            |
| UNIT # 1                   |              |                               |            |
| INSTRUMENT AIR SUPPLY      |              |                               |            |
| REACTOR BUILDING           |              |                               |            |
| EL. 298'-0" @ COLUMN "N-7" |              |                               |            |
| DR.                        | JSC          | TR.                           |            |
| CK.                        | DFB          | DATE                          | 7-29-81    |
| SCALE                      | NONE         |                               |            |
| APPROVED                   | RJ WHITFORD  | APPROVED                      | AJ HALSEY  |
| INDEX                      | 3-N2.1-S18.8 |                               |            |
| APPROVED                   | WP NOWICKI   | DWG. NO.                      | LR-22110-0 |
| SH.                        | 40           | REV.                          | 0          |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |
|     |      |    |         |     |      |
|     |      |    |         |     |      |
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|     |      |    |         |     |      |
|     |      |    |         |     |      |



|    |          |
|----|----------|
| IV | 89-32    |
| IV | 39-11(R) |
| IV | 39-12(R) |
| IV | 39-13(R) |
| IV | 39-14(R) |

**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) - CRESENT ARMORED TUBING
- 3) ● FILTER REGULATOR SET @ 80 PSI MIN., 165 PSI MAX.

**REFERENCE DRAWING:**

P&I DIAGRAM C-18017-C (S14) & C-18008-C (S14)

**LR NOTE:**

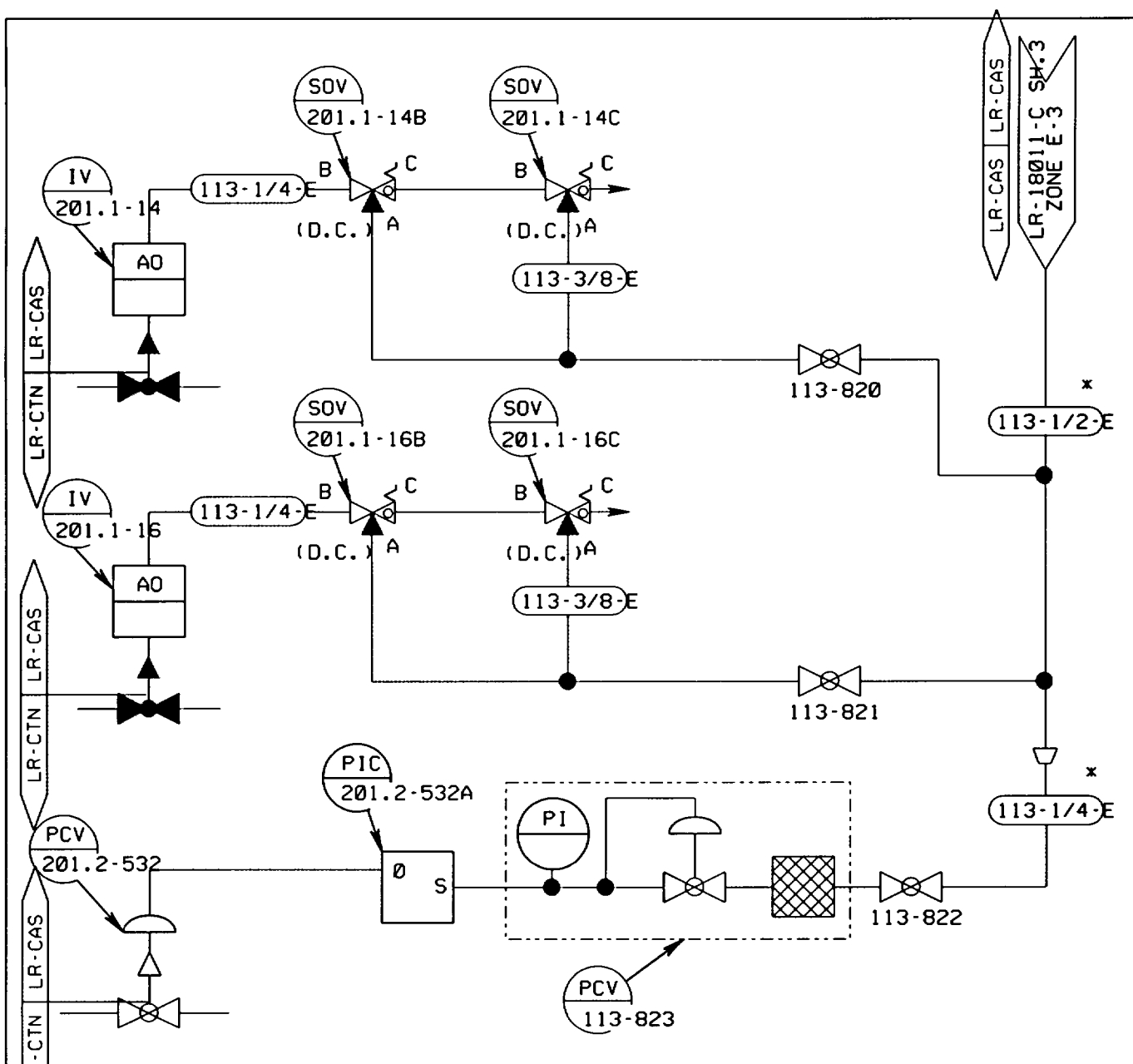
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1**

**INSTRUMENT AIR SUPPLY**  
**REACTOR BUILDING**  
**EL. 298'-0" @ COLUMN "N-8"**

|          |     |          |            |       |      |
|----------|-----|----------|------------|-------|------|
| DR.      | TR. | CK.      | DATE       | SCALE | NONE |
| APPROVED |     | APPROVED |            | INDEX |      |
| APPROVED |     | DWG. NO. | LR-22110-0 | SH.   | 41   |
|          |     |          |            | REV.  | 0    |


| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|     |           |
|-----|-----------|
| PCV | 201.2-532 |
| IV  | 201.1-14  |
| IV  | 201.1-16  |

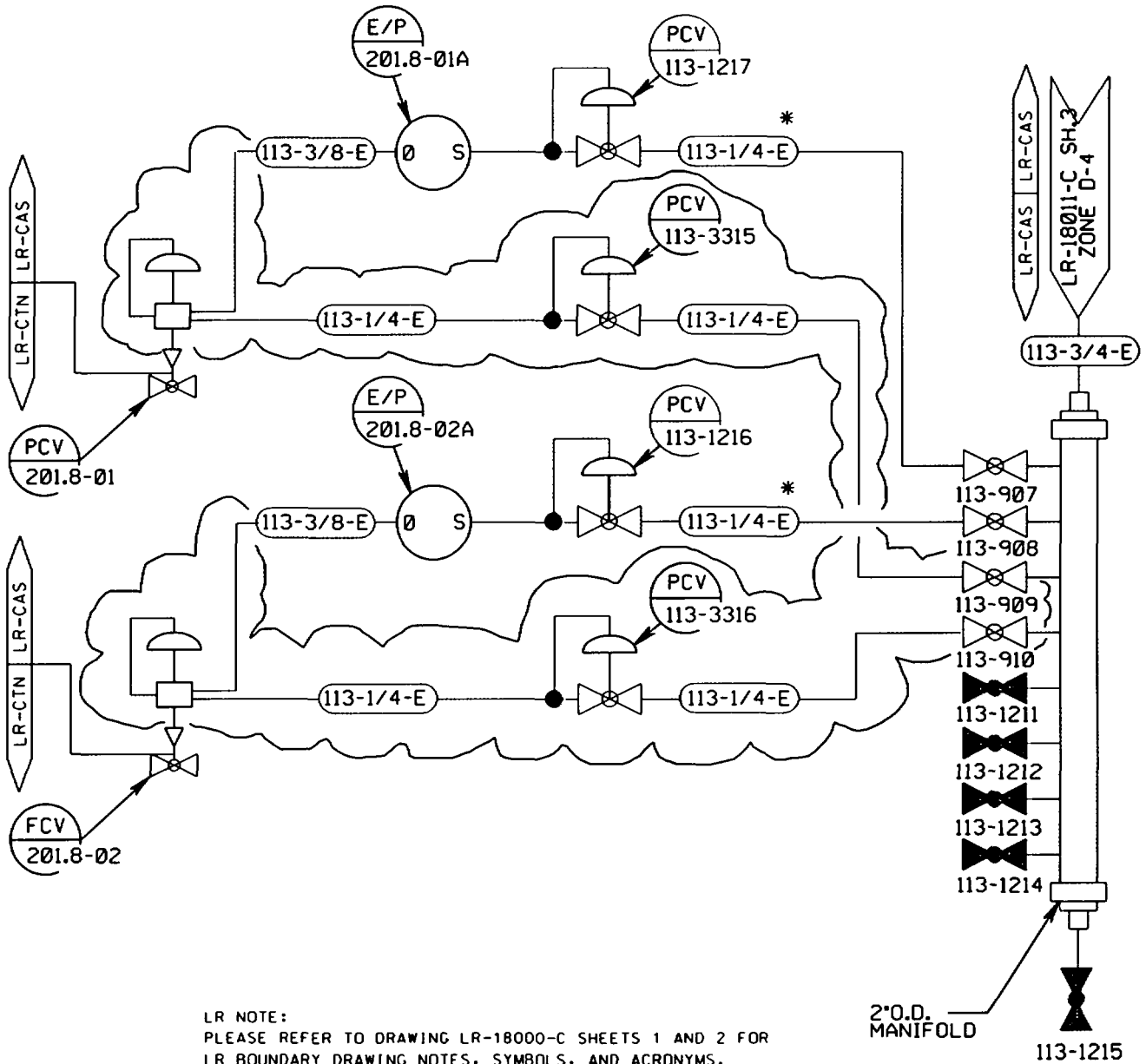
NOTES:  
1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.  
2) - CRESCENT ARMORED TUBING  
REFERENCE DRAWING:  
P&I DIAGRAM C-18014-C, SH.1 (S10)

 **CONSTELLATION NINE MILE POINT ENERGY GROUP**  
UNIT #1

**INSTRUMENT AIR SUPPLY**  
**REACTOR BUILDING**  
EL. 298'-0" @ COLUMN "L-9"

|              |                     |                    |              |            |
|--------------|---------------------|--------------------|--------------|------------|
| DR. SJS      | TR.                 | CK. DFB            | DATE 9-30-83 | SCALE NONE |
| APPROVED LAK | APPROVED WP NOWICKI | INDEX 3-N2.1-S18.8 |              |            |
| APPROVED     | DWG. NO. LR-22110-0 | SH. 42             | REV. 0       |            |

| 0   |      |    |         |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|------|----|---------|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| REV | DATE | BY | REMARKS | CK. | APP. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

2" O.D. MANIFOLD  
113-1215

|     |          |
|-----|----------|
| FCV | 201.8-01 |
| PCV | 201.8-02 |

**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
- 2) \* CRESCENT ARMORED TUBING

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18014-C, SH.4 (S10)



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

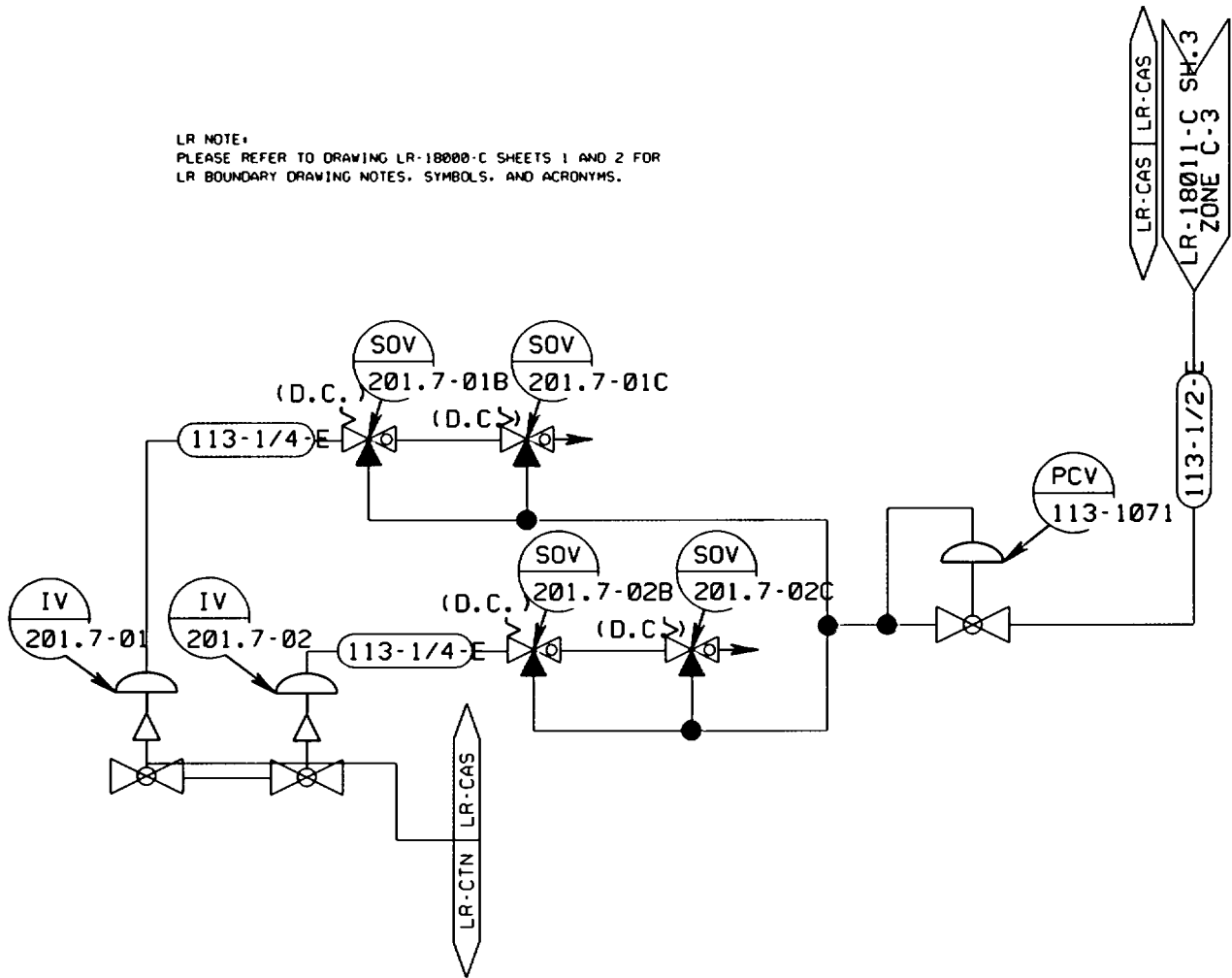
INSTRUMENT AIR SUPPLY

REACTOR BUILDING

EL. 261'-0" @ COLUMN "P-11"

|          |          |          |          |              |            |
|----------|----------|----------|----------|--------------|------------|
| DR.      | TR.      | CK.      | DATE     | SCALE        | NONE       |
| APPROVED | APPROVED | APPROVED | INDEX    | 3-N2.1-S18.8 |            |
| REV.     | DATE     | BY       | REMARKS  | CK.          | APP.       |
|          |          |          | APPROVED | DWG. NO.     | LR-22110-C |
|          |          |          | SH.      | 43           | REV.       |
|          |          |          |          |              | 0          |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18014-C SH. 2 (S10)

|    |          |
|----|----------|
| IV | 201.7-01 |
| IV | 201.7-02 |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT \*1

INSTRUMENT AIR SUPPLY

REACTOR BUILDING

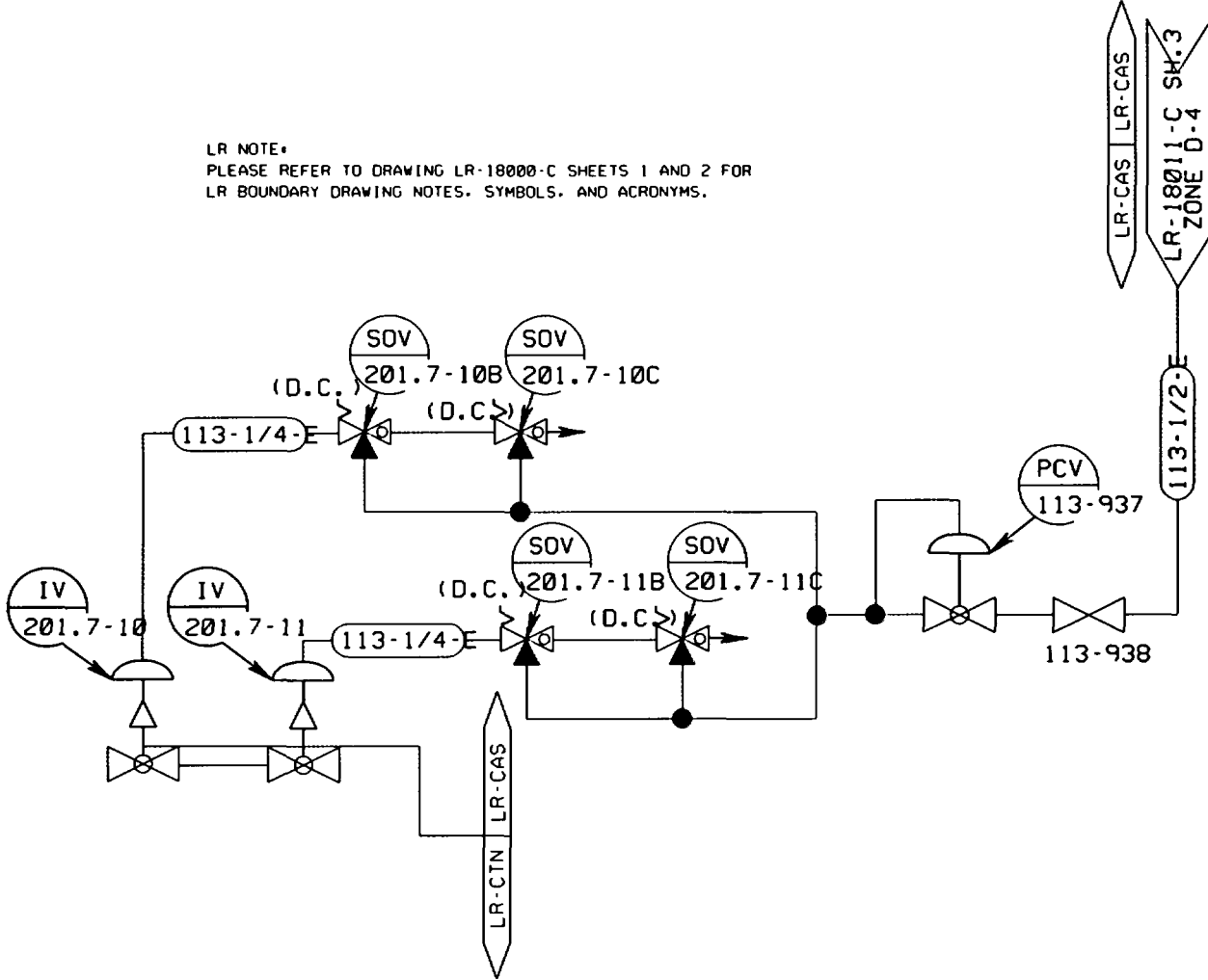
EL. 298'-0" @ COLUMN "L-7"

|          |            |          |       |       |
|----------|------------|----------|-------|-------|
| DR.      | TR.        | CK.      | DATE  | SCALE |
| APPROVED | APPROVED   | APPROVED | INDEX | NONE  |
| APPROVED | DWG. NO.   | SH.      | REV.  |       |
|          | LR-22110-0 | 46       | 0     |       |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
| 0   |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

1) FOR GENERAL NOTES SEE DWG.  
A-22108-C, SHEET 1 & 2.

**REFERENCE DRAWING:**

P&I DIAGRAM • C-18014-C SH. 2 (S10)

|    |          |
|----|----------|
| IV | 201.7-10 |
| IV | 201.7-11 |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT \* 1

INSTRUMENT AIR SUPPLY

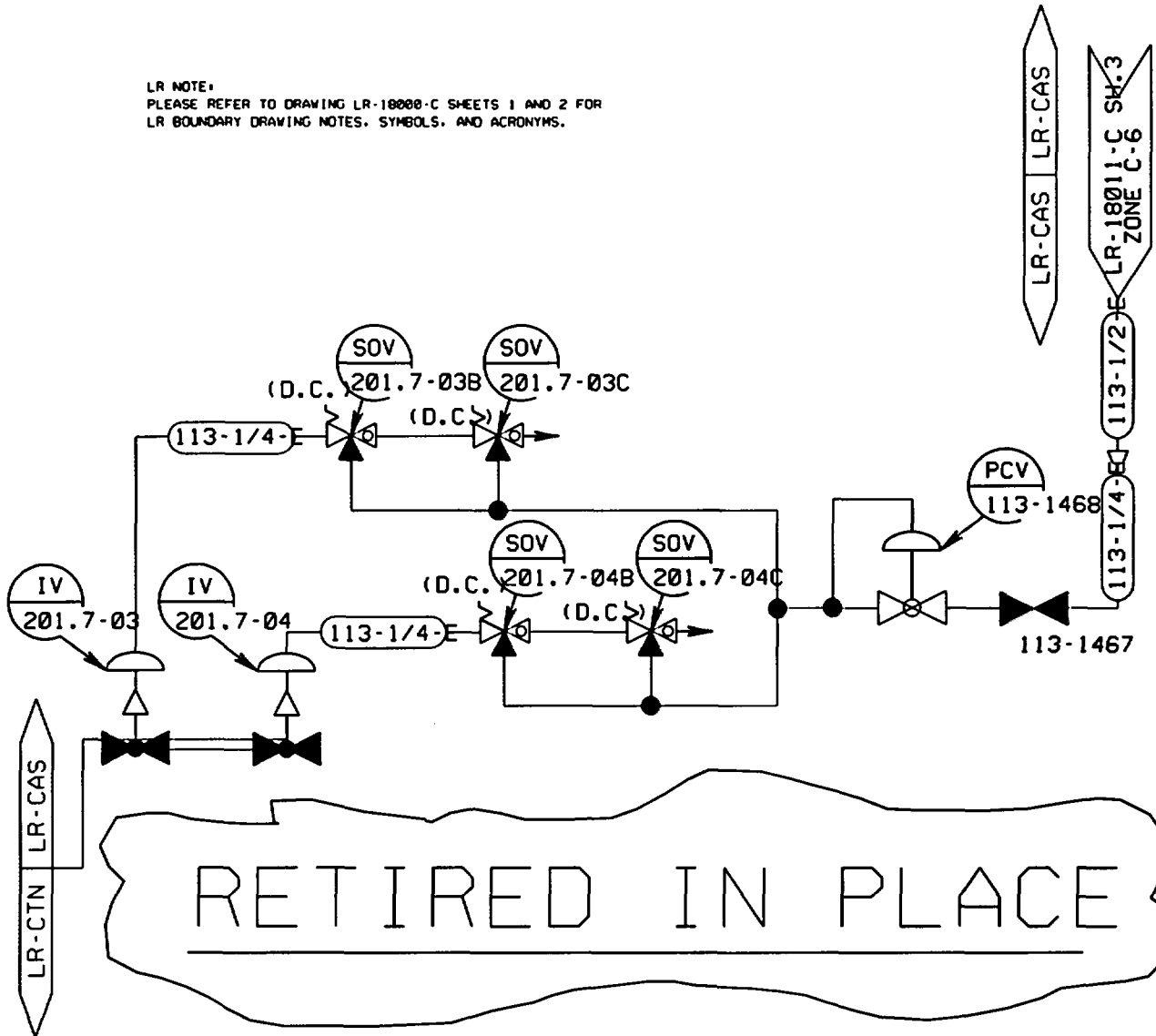
REACTOR BUILDING

EL. 281'-0" @ COLUMN "K-7"

|          |          |          |            |       |              |
|----------|----------|----------|------------|-------|--------------|
| DR.      | TR.      | CK.      | DATE       | SCALE | NONE         |
| APPROVED | APPROVED | APPROVED | APPROVED   | INDEX | 3-N2.1-S18.8 |
| APPROVED | APPROVED | DWG. NO. | LR-22110-0 | SH.   | 47           |
| APPROVED | APPROVED | REV.     | 0          |       |              |

| REV | DATE | BY | REMARKS | CK. | APP. | MF. |
|-----|------|----|---------|-----|------|-----|
|     |      |    |         |     |      |     |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18014-C SH. 2 (S10)

|    |          |
|----|----------|
| IV | 201.7-03 |
| IV | 201.7-04 |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT \*1

INSTRUMENT AIR SUPPLY

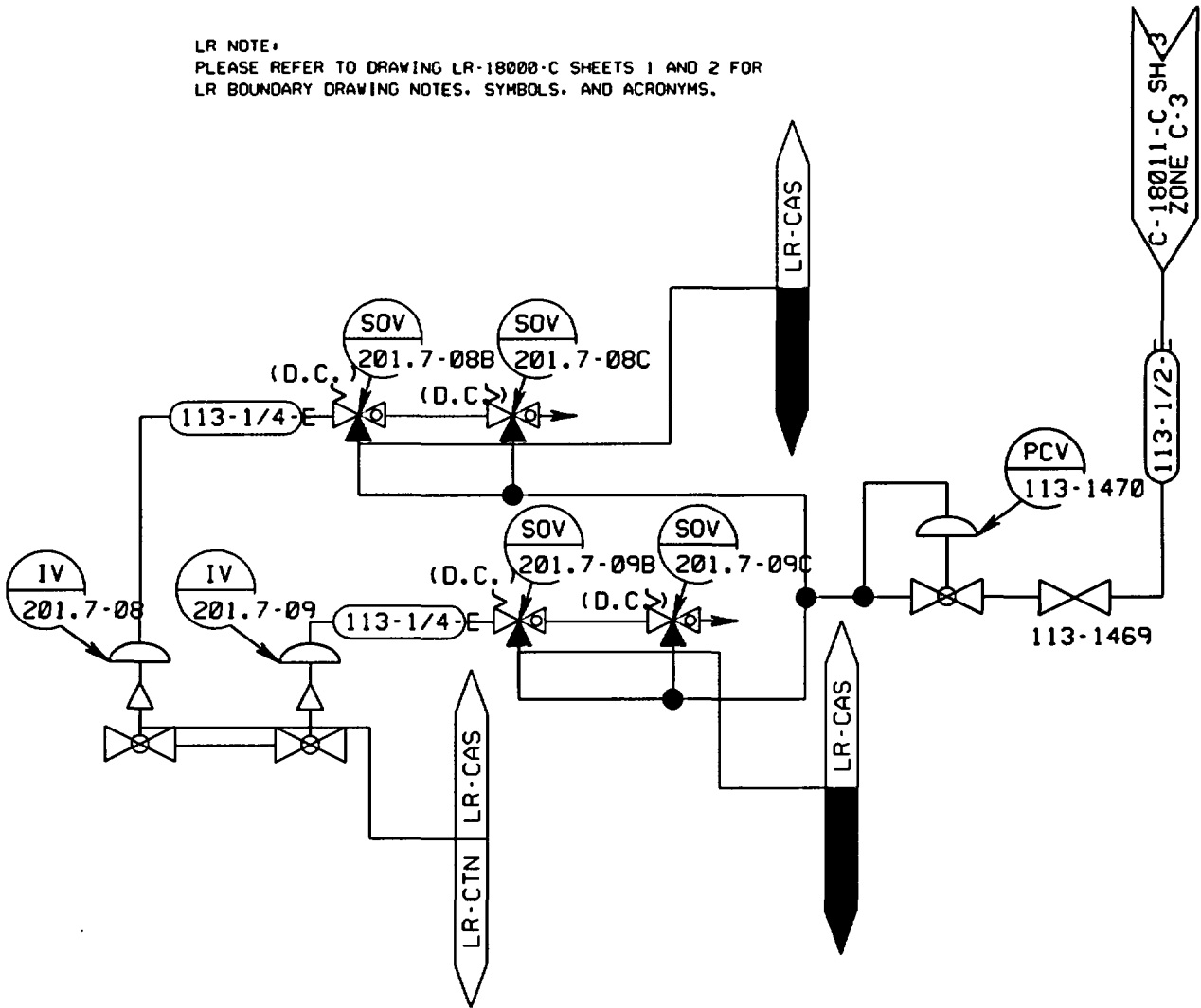
REACTOR BUILDING

EL. 237' -0" @ COLUMN "K-7"

|          |          |          |            |       |              |
|----------|----------|----------|------------|-------|--------------|
| DR.      | TR.      | CK.      | DATE       | SCALE | NONE         |
| APPROVED | APPROVED | APPROVED | APPROVED   | INDEX | 3-N2.1-S18.8 |
| APPROVED | APPROVED | APPROVED | DWG. NO.   | SH.   | REV.         |
|          |          |          | LR-22110-C | 48    | 0            |

| REV | DATE | BY | REMARKS | CK. | APP. | HF. |
|-----|------|----|---------|-----|------|-----|
| 0   |      |    |         |     |      |     |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**

- 1) FOR GENERAL NOTES SEE DWG. A-22108-C. SHEET 1 & 2.

**REFERENCE DRAWING:**

P&I DIAGRAM\* C-18014-C SH. 2 (S10)

|    |          |
|----|----------|
| IV | 201.7-08 |
| IV | 201.7-09 |



CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

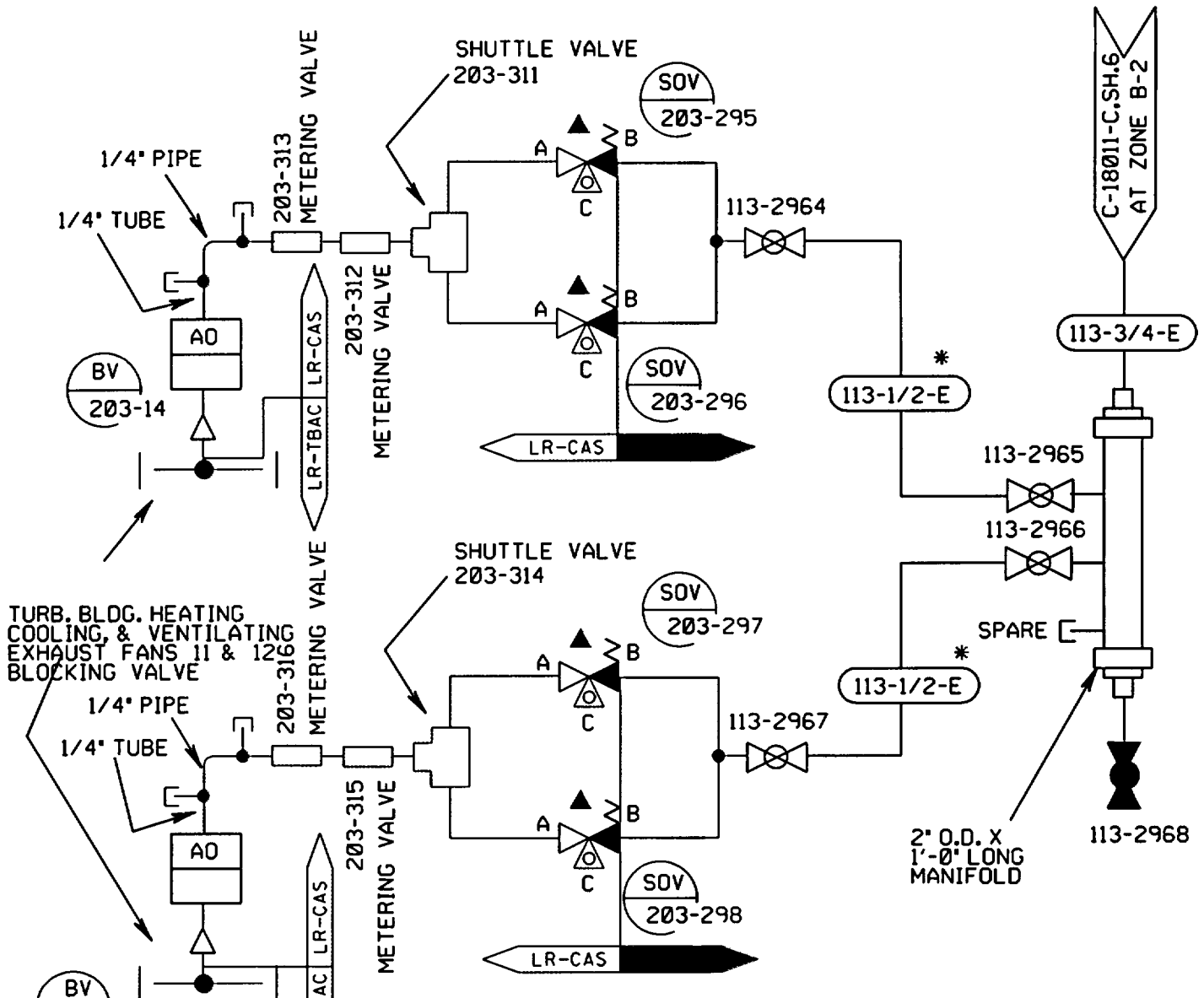
INSTRUMENT AIR SUPPLY

REACTOR BUILDING

EL. 298'-0" @ COLUMN "M-7"

|          |     |          |              |                    |
|----------|-----|----------|--------------|--------------------|
| DR. MCB  | TR. | CK. MB   | DATE 5-17-94 | SCALE NONE         |
| APPROVED |     | APPROVED | AJ LOVELAND  | INDEX 3-N2.1-S18.8 |
| APPROVED |     | DWG. NO. | LR-22110-0   | SH. 49             |

| REV | DATE | BY | REMARKS | CK | APP | SP |
|-----|------|----|---------|----|-----|----|
|     |      |    |         |    |     |    |
|     |      |    |         |    |     |    |



TURB. BLDG. HEATING  
COOLING, & VENTILATING  
EXHAUST FANS 11 & 12  
BLOCKING VALVE

- NOTES:
- 1) FOR GENERAL NOTES SEE DWG. A-22108-C, SHEET 1 & 2.
  - 2) CRESCENT ARMORED TUBING
  - 3) 3-WAY SOLENOID VALVE BY VALVE MANUFACTURER

LR NOTE:  
PLEASE REFER TO DRAWING C-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REFERENCE DRAWING:  
P&ID = C-18028-C

|    |        |
|----|--------|
| BV | 203-14 |
| BV | 203-15 |

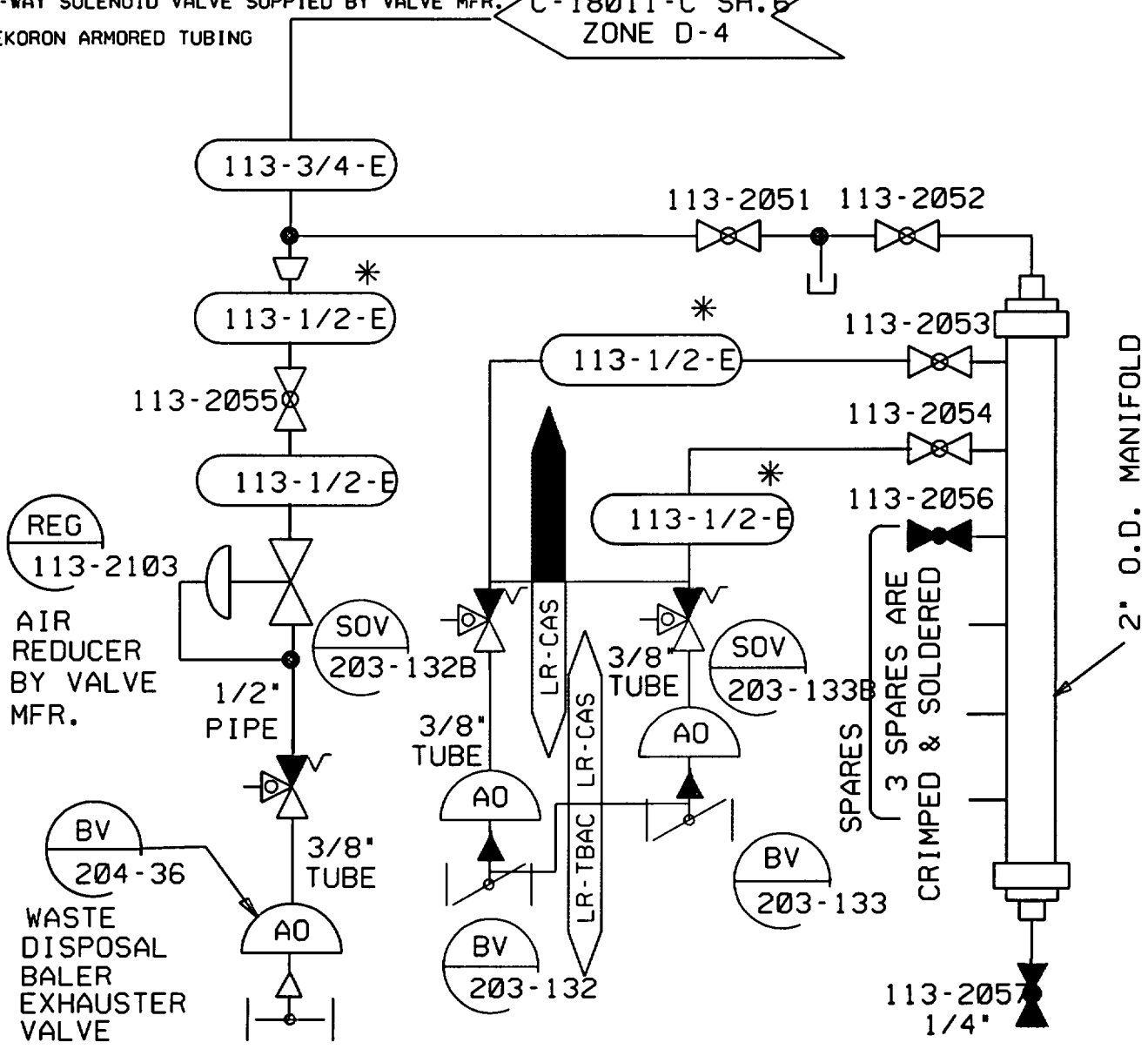
|  |     |                            |        |
|--|-----|----------------------------|--------|
|  |     | NINE MILE POINT<br>UNIT #1 |        |
| INSTRUMENT PIPING FOR AIR SUPPLY<br>TURB. EXTENSION BLDG.<br>EL 289'- 9" AT COLUMN Mb - 16 |     |                            |        |
| DR.  | RFN | TR.                        | CK. BG |
| APPROVED   |     | APPROVED                   |        |
| COR  |     | DATE                       |        |
| APPROVED   |     | SCALE NONE                 |        |
| DNG. NO. LR-22112-C  |     | INDEX 3-N2.1-S18.8         |        |
|  |     | SHEET 4                    |        |

| REV | DATE | BY | REMARKS | CK | APP. | VF   |    |     |    |     |         |      |
|-----|------|----|---------|----|------|------|----|-----|----|-----|---------|------|
| M   | REV  | C  | A       | U  | F    | DATE | BY | MOD | NO | DTM | REMARKS | APP. |

FOR GENERAL NOTES SEE  
 DWG • A-22108-C, SH.1&2

▲ 3-WAY SOLENOID VALVE SUPPLIED BY VALVE MFR.  
 \* DEKORON ARMORED TUBING

C-18011-C SH.6  
 ZONE D-4



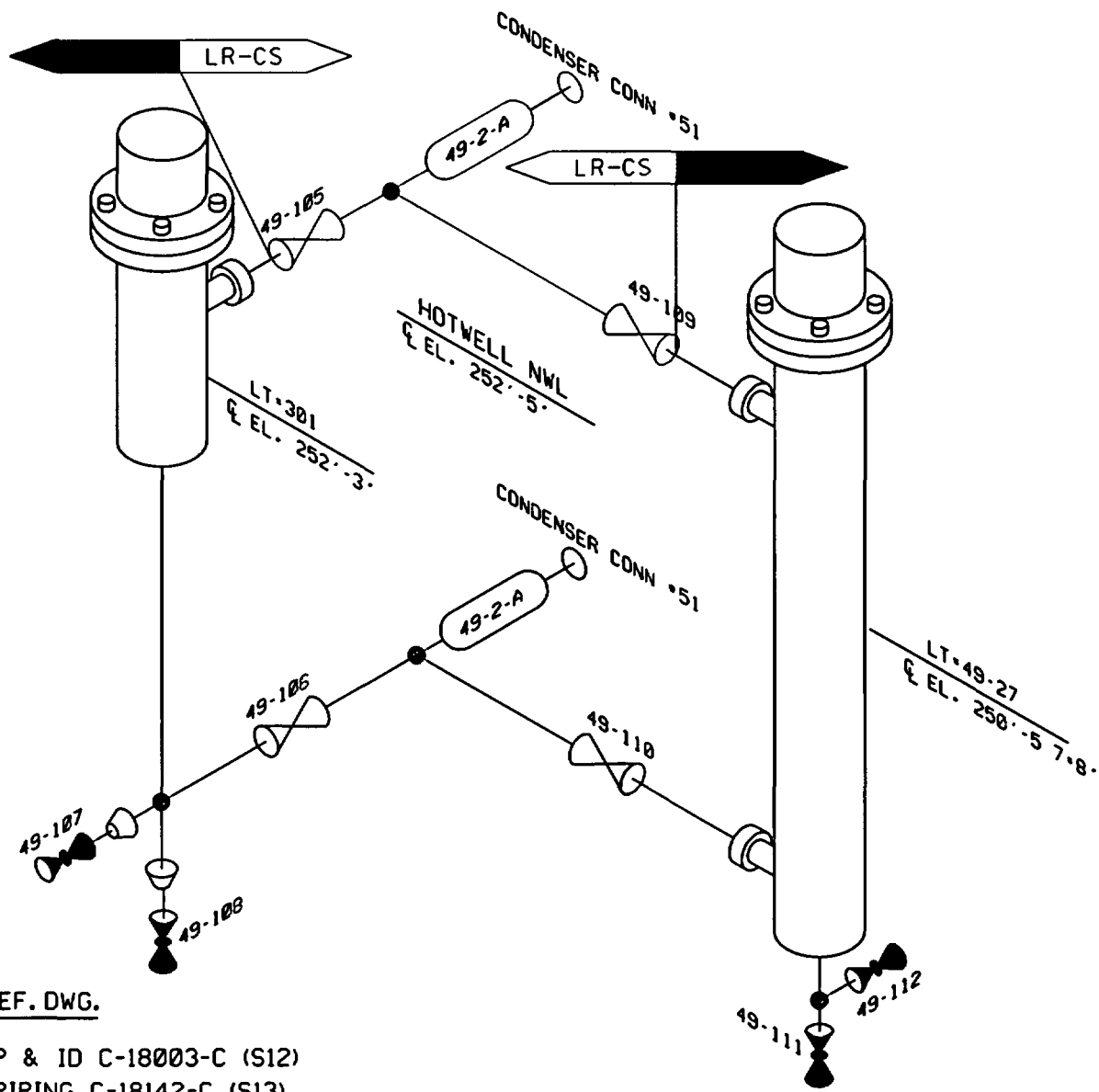
REFERENCE DRAWING

P&I DIAGRAM\* C-18021-C SH.3  
 C-18028-C SH.1

|    |         |
|----|---------|
| BV | 203-132 |
| BV | 203-133 |
| BV | 204-36  |

LR NOTE:  
 PLEASE REFER TO DRAWING C-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|                            |                         |             |      |       |
|----------------------------|-------------------------|-------------|------|-------|
|                            | NINE MILE POINT UNIT #1 |             |      |       |
|                            | INSTRUMENT AIR SUPPLY   |             |      |       |
| TURBINE EXTENSION BUILDING |                         |             |      |       |
| EL. 261 @ COLUMN "Q - 14"  |                         |             |      |       |
| DR.                        | TR.                     | CK.         | DATE | SCALE |
|                            |                         |             |      | NONE  |
| APPROVED                   |                         | APPROVED    |      | INDEX |
| APPROVED                   |                         | DWG. NO.    | SH.  | REV.  |
|                            |                         | LR-A22112-C | 5    | 0     |




**REF. DWG.**

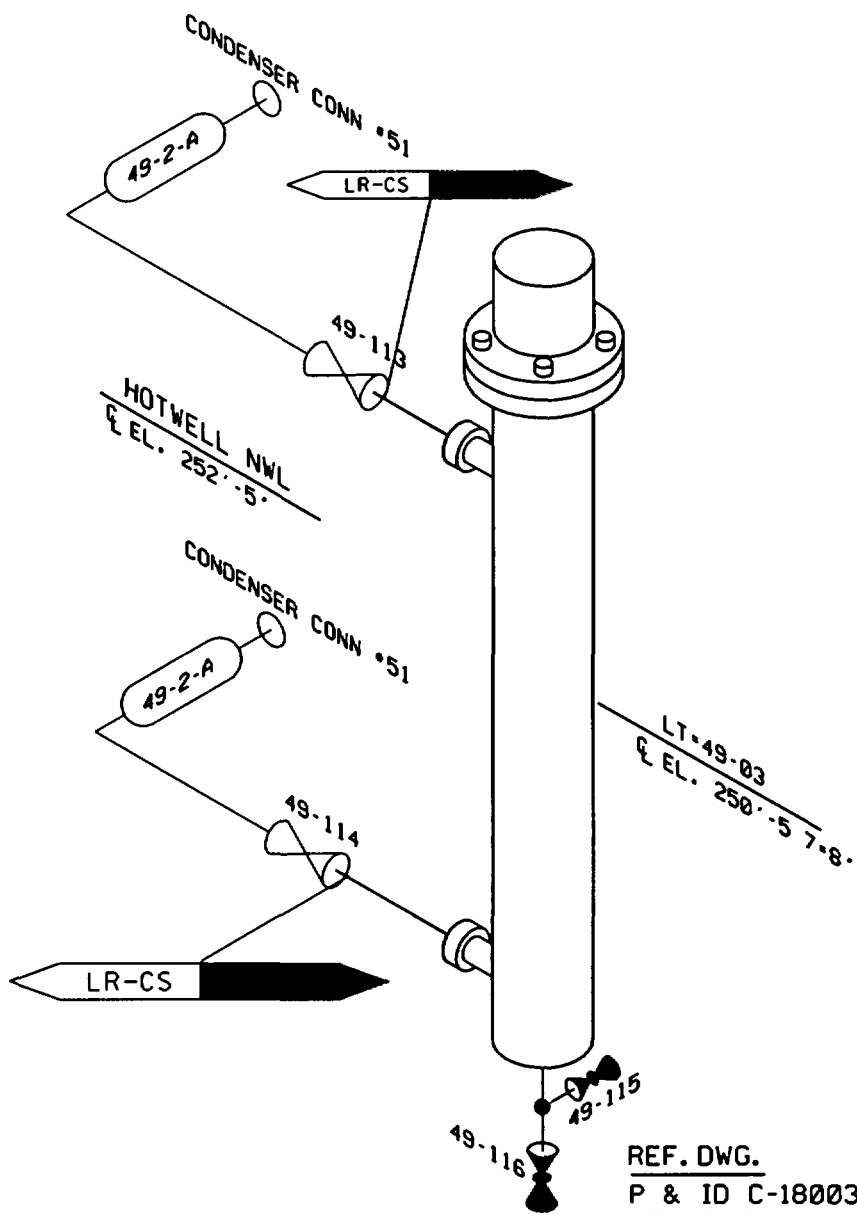
P & ID C-18003-C (S12)  
 PIPING C-18142-C (S13)

**LR NOTE:**

PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|  |     |                         |               |
|--|-----|-------------------------|---------------|
| LT/49-27   |     | LT/301                  |               |
|  CONSTELLATION ENERGY GROUP |     | NINE MILE POINT UNIT #1 |               |
| CONDENSER HOTWELL LVL  |     |                         |               |
| TURBINE BLDG EL. 243'-0"   |     |                         |               |
| INSRUMENT DIAGRAM  |     |                         |               |
| DR. B.S.   | TR. | CK. M.B.                | DATE 11-24-93 |
| APPROVED A. LOVELAND   |     | APPROVED                |               |
| APPROVED   |     | DWG. NO. LR-69003-C     | SCALE NONE    |
| INDEX 3-N2-S12   |     | SPL 2                   | REV. 0        |


|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 0   |      |    |         |     |      |

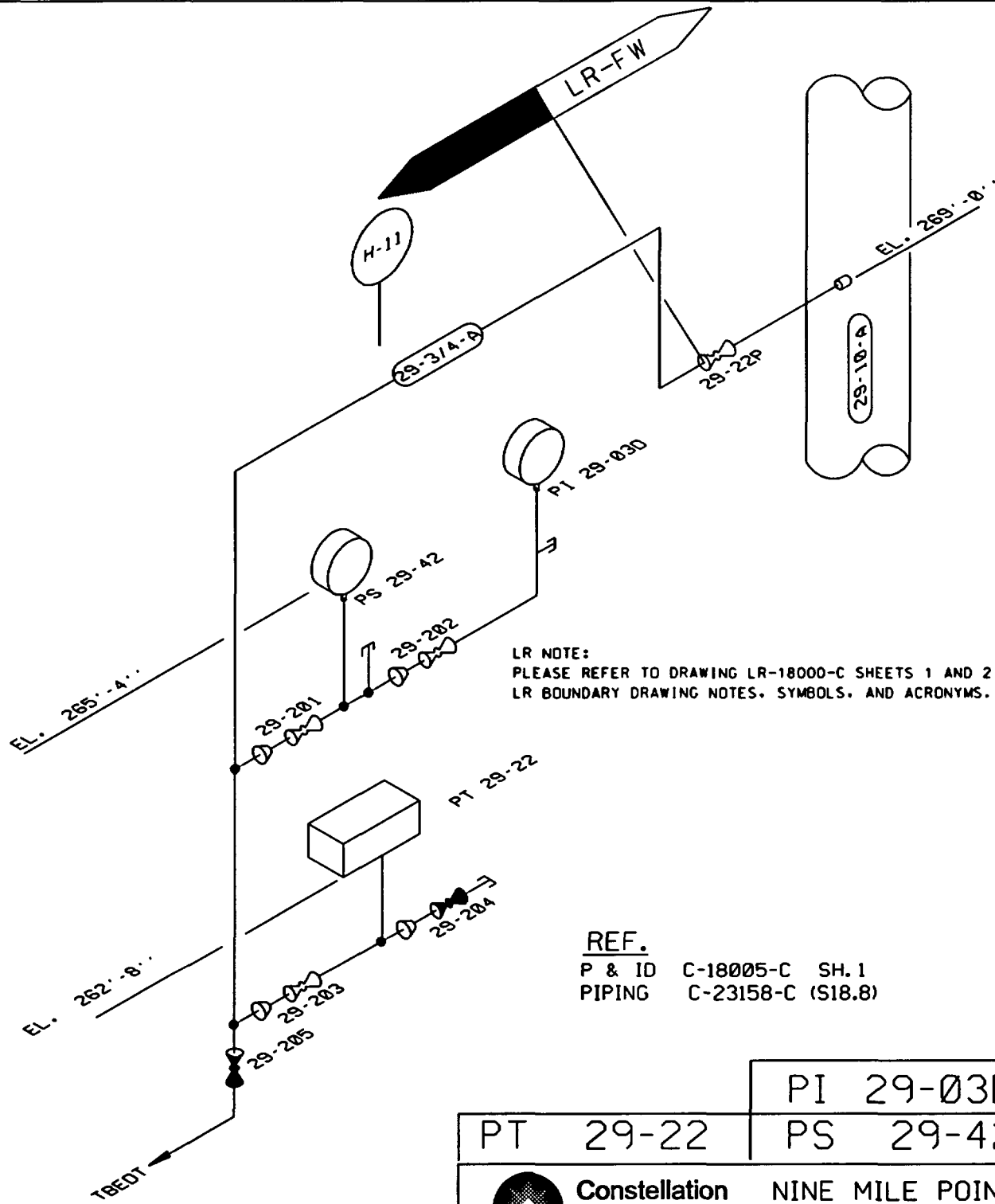


REF. DWG.  
 P & ID C-18003-C (S12)  
 PIPING C-18142-C (S13)

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.


LT/49-03

|   |      |               |         |                 |          |
|---|------|---------------|---------|-----------------|----------|
|  |      | CONSTELLATION |         | NINE MILE POINT |          |
|   |      | ENERGY GROUP  |         | UNIT #1         |          |
| CONDENSER HOTWELL LVL (NORTH)   |      |               |         |                 |          |
| TURBINE BLDG EL. 243'-0"  |      |               |         |                 |          |
| INSRUMENT DIAGRAM   |      |               |         |                 |          |
| DR.   | TR.  | CK.           | DATE    | SCALE           | NONE     |
| APPROVED  |      | APPROVED      |         | INDEX           | 3-N2-S12 |
| REV   | DATE | BY            | REMARKS | CK.             | APP.     |
|   |      |               |         |                 |          |
| APPROVED  |      | DWG. NO.      |         | LR-69003-C      | SPL 3    |
|   |      |               |         |                 | REV. 0   |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

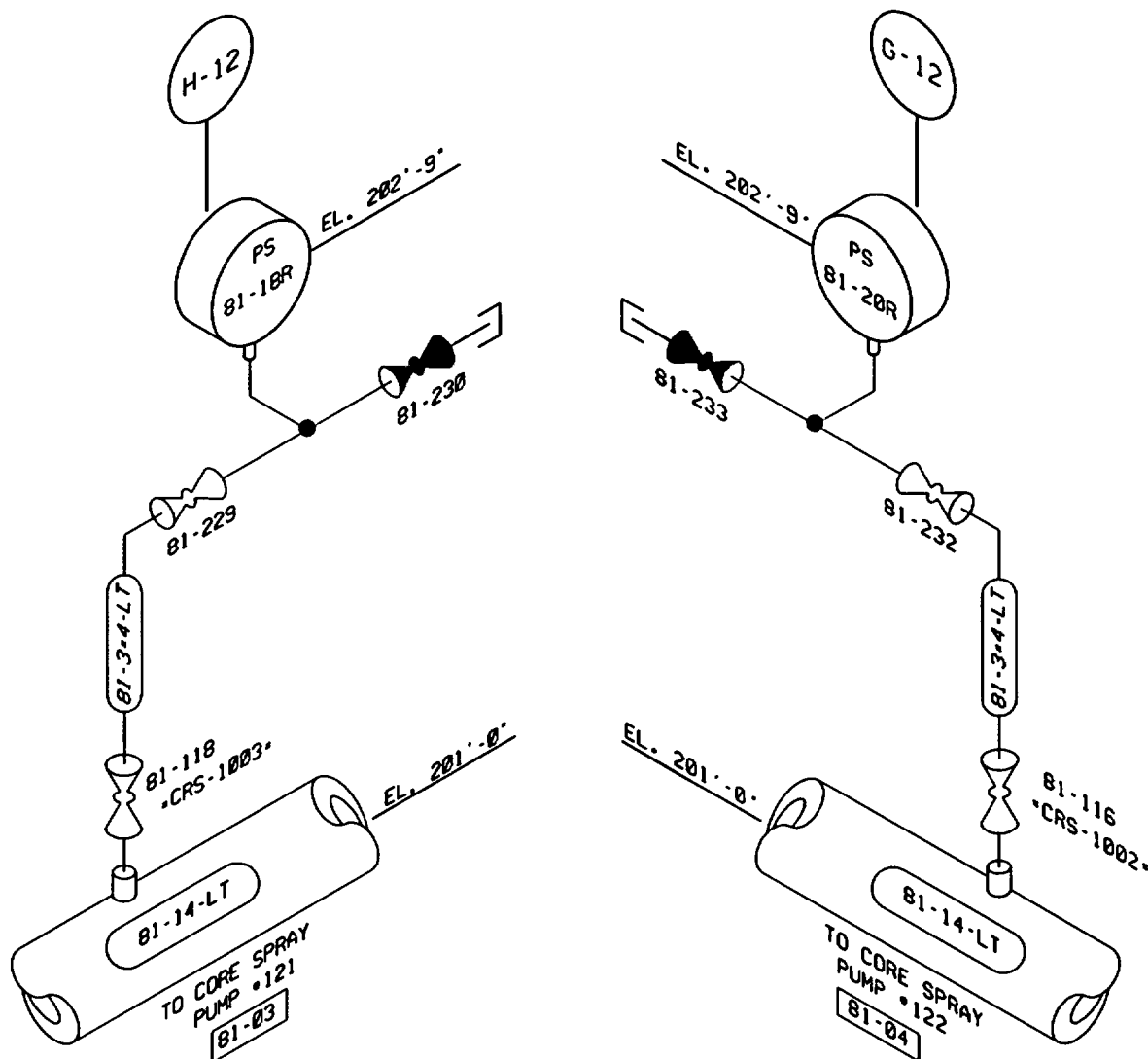
REF.  
P & ID C-18005-C SH.1  
PIPING C-23158-C (S18.8)

|   |     |                                    |              |
|---|-----|------------------------------------|--------------|
|   |     | PI 29-03D                          |              |
| PT 29-22  |     | PS 29-42                           |              |
|  <b>Constellation Energy Group</b> |     | NINE MILE POINT UNIT #1            |              |
|   |     | #12 FEEDWATER PUMP DISCHARGE PRESS |              |
| TURBINE BLDG. EL. 261'-0"   |     |                                    |              |
| INSTRUMENT DIAGRAM  |     |                                    |              |
| DR. BAW   | TR. | CX. M.J.B.                         | DATE 2/16/93 |
| APPROVED  |     | SCALE N/A                          |              |
| APPROVED  |     | INDEX 3-N2-S18.8                   |              |
| APPROVED  |     | DWG. NO. LR-69005-C                | SH. 3        |
|   |     | REV. 0                             |              |

| 0   |      |    |         |     |      |          |          |     |      |
|-----|------|----|---------|-----|------|----------|----------|-----|------|
| REV | DATE | BY | REMARKS | CX. | APP. | APPROVED | DWG. NO. | SH. | REV. |



LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.

P & ID C-18007-C (S14)  
 PIPING C-18178-C SH.1 (S18.8)

|    |        |
|----|--------|
| PS | 81-18R |
| PS | 81-20R |



CONSTELLATION NINE MILE POINT  
 ENERGY GROUP UNIT #1

CORE SPRAY PUMP #121 & #122

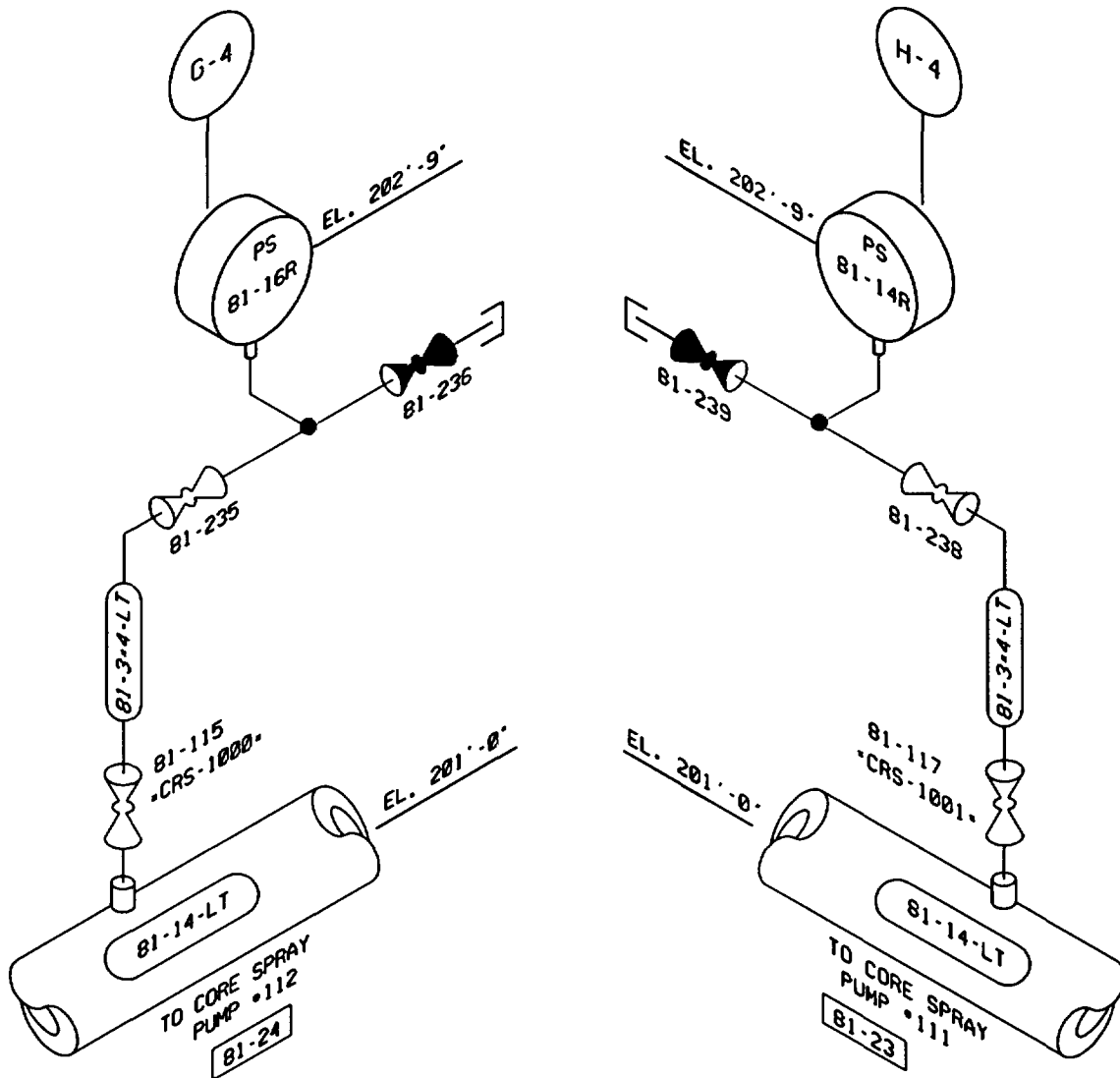
SUCTION PRESS (RB EL. 198' - 0")

INSTRUMENT DIAGRAM

|          |     |                      |               |                  |
|----------|-----|----------------------|---------------|------------------|
| DR. B.S. | TR. | CK. M.B.             | DATE 11-30-93 | SCALE NONE       |
| APPROVED |     | APPROVED AJ LOVELAND |               | INDEX 3-N2.1-S14 |
| APPROVED |     | DWG. NO. LR-69007-C  | SPL 5         | REV. 0           |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
| 0   |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

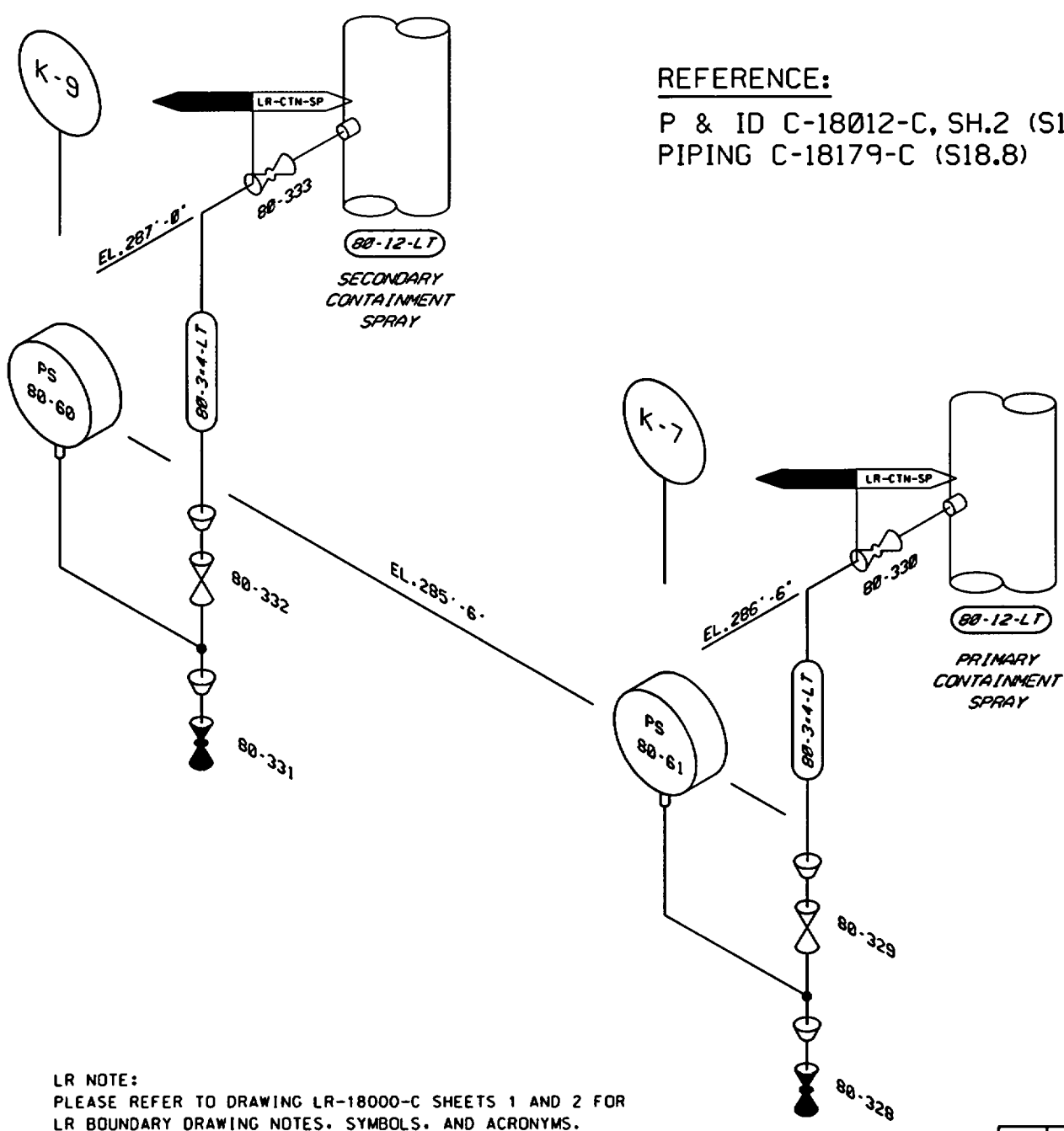


**REFERENCE:**

P & ID C-18007-C (S14)  
PIPING C-18178-C SH.1 (S18.8)

|    |        |
|----|--------|
| PS | 81-14R |
| PS | 81-16R |


|   |      |  |              |                  |
|---|------|--|--------------|------------------|
|  |      | CONSTELLATION NINE MILE POINT ENERGY GROUP |              | UNIT #1          |
|   |      | CORE SPRAY PUMP #111 & #112                |              |                  |
| SUCTION PRESS (RB EL. 198' - 0")  |      |  |              |                  |
| INSTRUMENT DIAGRAM  |      |  |              |                  |
| DR. B.S.  | TR.  | CK. M.B.                                   | DATE 10-5-93 | SCALE NONE       |
| APPROVED  |      | APPROVED AJ LOVELAND                       |              | INDEX 3-N2.1-S14 |
| REV   | DATE | BY   | REMARKS      | CK. APP.         |
| APPROVED  |      | DWG. NO. LR-69007-C                        | SH. 6        | REV. 0           |



**REFERENCE:**  
 P & ID C-18012-C, SH.2 (S14)  
 PIPING C-18179-C (S18.8)

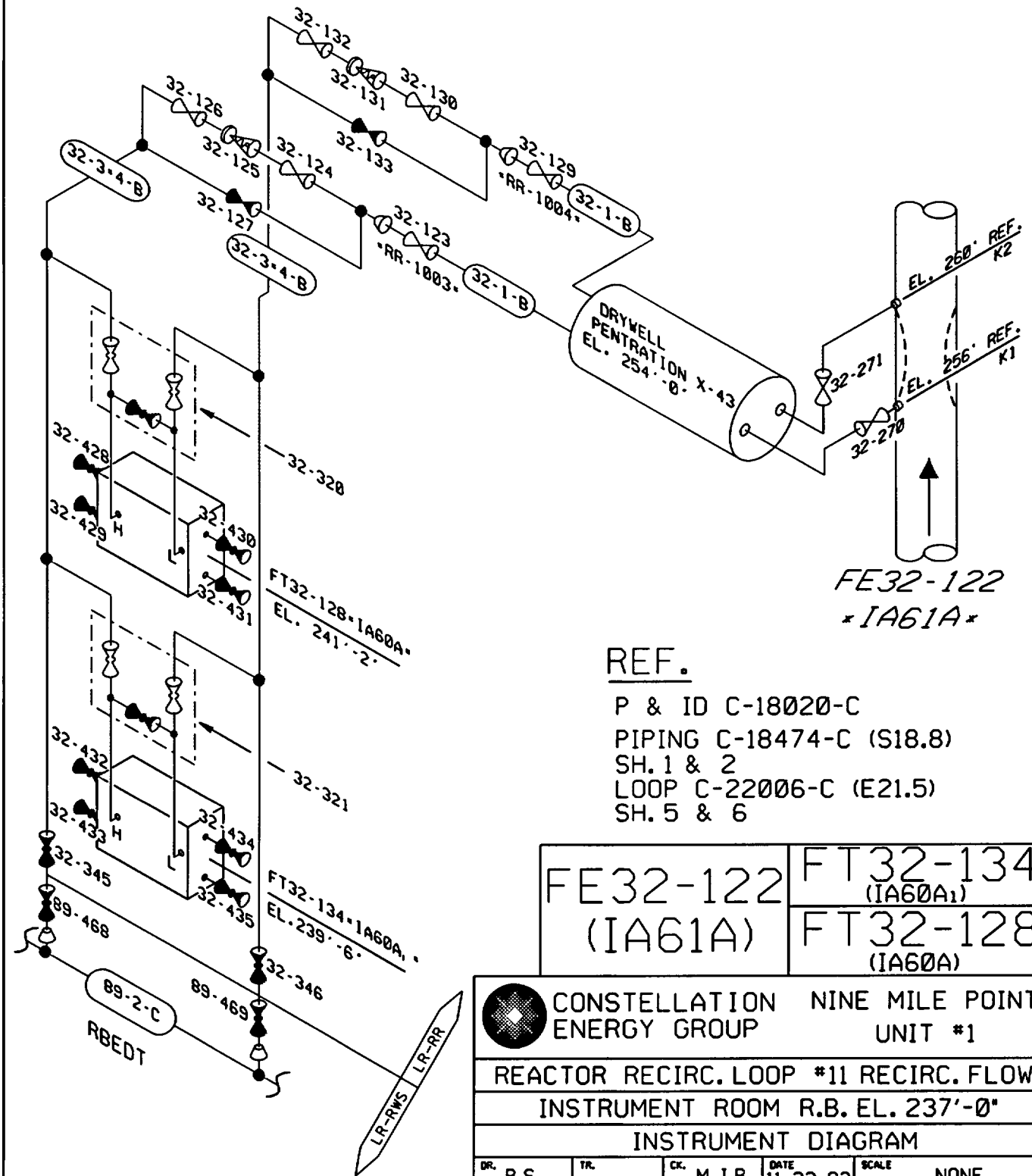
**LR NOTE:**  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |       |
|----|-------|
| PS | 80-60 |
| PS | 80-61 |

|   |    |               |                     |                 |                  |
|---|----|---------------|---------------------|-----------------|------------------|
|  |    | CONSTELLATION |                     | NINE MILE POINT |                  |
|   |    | ENERGY GROUP  |                     | UNIT #1         |                  |
| PRIMARY & SECONDARY CONT. SPRAY PRESS.  |    |               |                     |                 |                  |
| REACTOR BUILDING 281'-0"  |    |               |                     |                 |                  |
| INSTRUMENT DIAGRAM  |    |               |                     |                 |                  |
| DR.   | MB | TR.           | CK.                 | DATE            | SCALE NONE       |
| APPROVED  |    |               | APPROVED            |                 | INDEX 3-N2.1-S14 |
| APPROVED  |    |               | DWG. NO. LR-69012-C | SHEET 3         | REV. 0           |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 0   |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



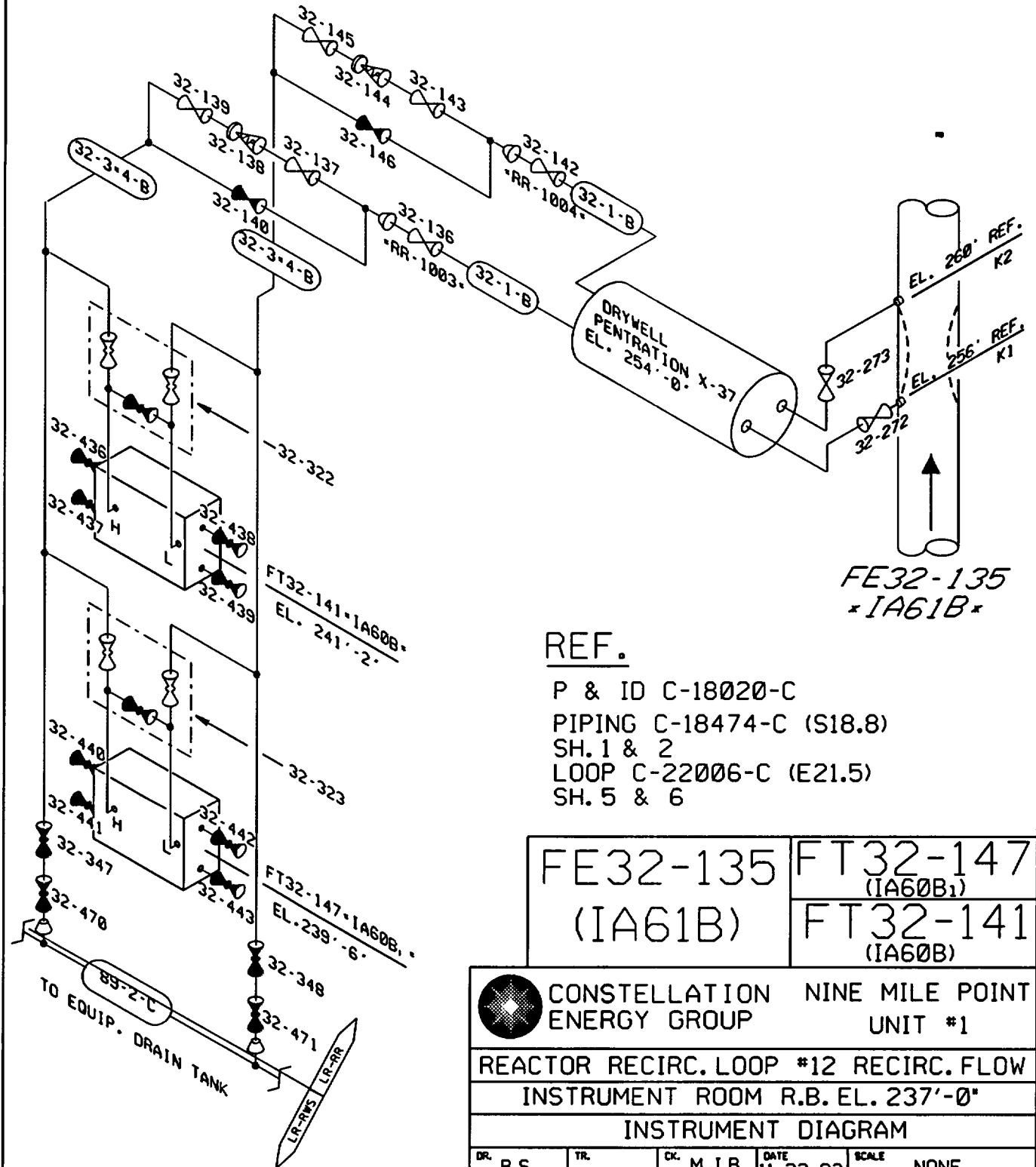
REF.

P & ID C-18020-C  
PIPING C-18474-C (S18.8)  
SH. 1 & 2  
LOOP C-22006-C (E21.5)  
SH. 5 & 6

|                     |                                   |
|---------------------|-----------------------------------|
| FE32-122<br>(IA61A) | FT32-134<br>(IA60A <sub>1</sub> ) |
|                     | FT32-128<br>(IA60A)               |

|   |     |  |               |                  |
|---|-----|--|---------------|------------------|
|  |     | CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1 |               |                  |
| REACTOR RECIRC. LOOP #11 RECIRC. FLOW INSTRUMENT ROOM R.B. EL. 237'-0"              |     |  |               |                  |
| INSTRUMENT DIAGRAM  |     |  |               |                  |
| DR. B.S.  | TR. | CK. M.J.B.   | DATE 11-22-93 | SCALE NONE       |
| APPROVED  |     | APPROVED   |               | INDEX 3-N2-S18.8 |
| APPROVED  |     | DWG. NO. LR-69020-C                                | SHEET 1       | REV. 0           |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.  
P & ID C-18020-C  
PIPING C-18474-C (S18.8)  
SH. 1 & 2  
LOOP C-22006-C (E21.5)  
SH. 5 & 6

|                     |                                   |
|---------------------|-----------------------------------|
| FE32-135<br>(IA61B) | FT32-147<br>(IA60B <sub>1</sub> ) |
|                     | FT32-141<br>(IA60B)               |

 CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

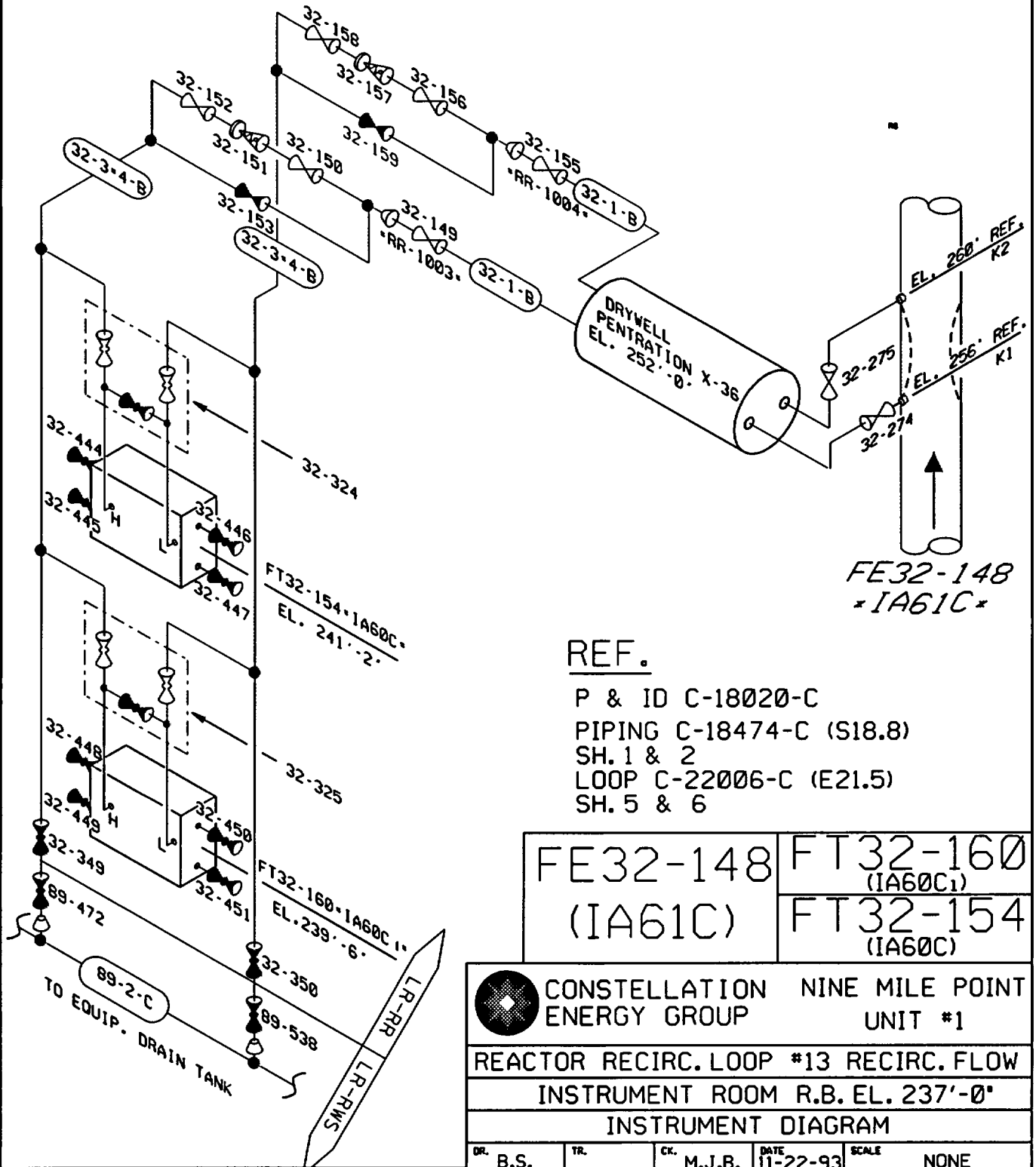
REACTOR RECIRC. LOOP #12 RECIRC. FLOW  
INSTRUMENT ROOM R.B. EL. 237'-0"

INSTRUMENT DIAGRAM

|          |     |                     |               |                  |
|----------|-----|---------------------|---------------|------------------|
| DR. B.S. | TR. | CK. M.J.B.          | DATE 11-22-93 | SCALE NONE       |
| APPROVED |     | APPROVED            |               | INDEX 3-N2-S18.8 |
| APPROVED |     | DWG. NO. LR-69020-C | SH. 2         | REV. 0           |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
|     |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.

- P & ID C-18020-C
- PIPING C-18474-C (S18.8)
- SH. 1 & 2
- LOOP C-22006-C (E21.5)
- SH. 5 & 6

|                     |                      |
|---------------------|----------------------|
| FE32-148<br>(IA61C) | FT32-160<br>(IA60C1) |
|                     | FT32-154<br>(IA60C)  |

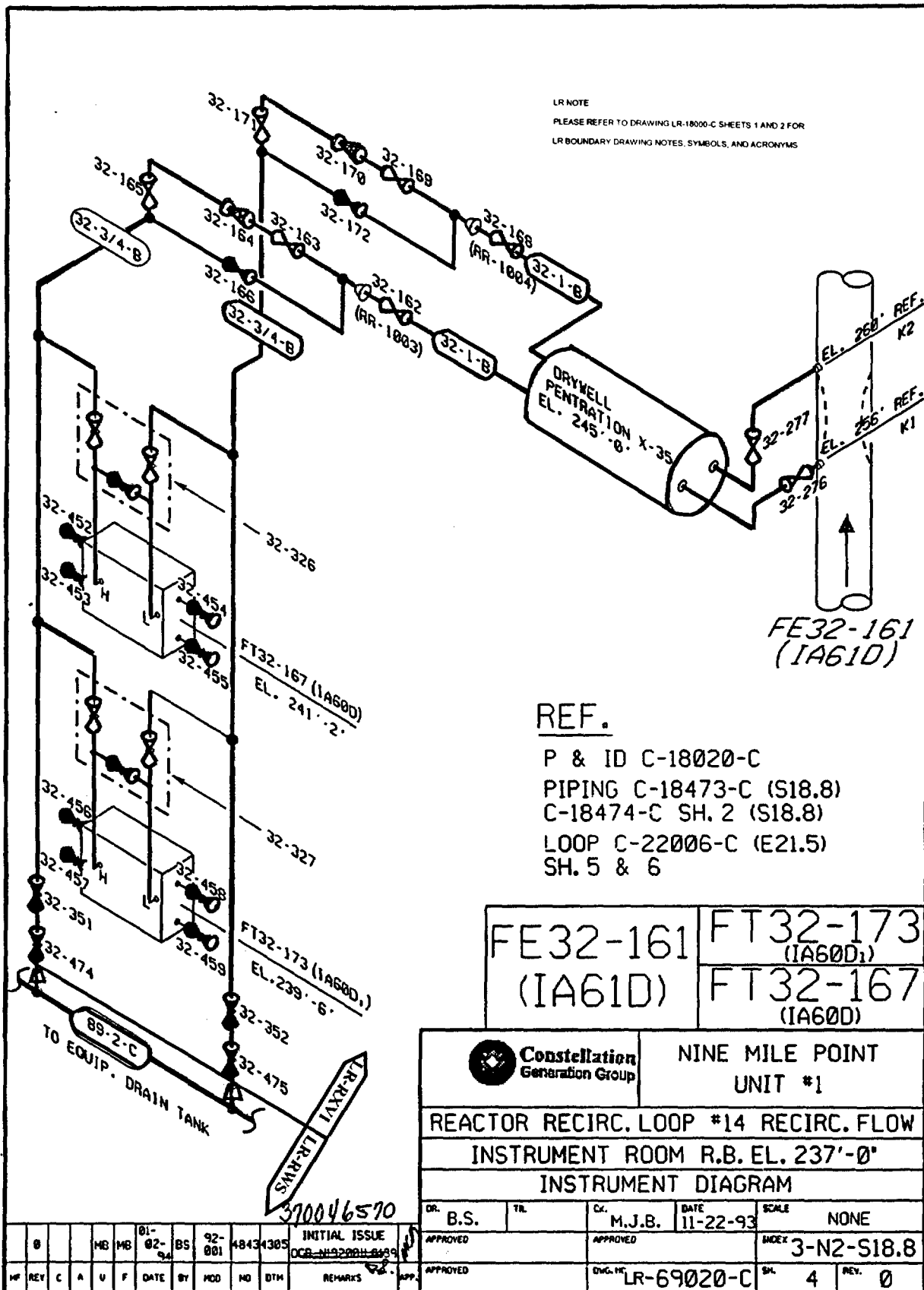
 CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1

REACTOR RECIRC. LOOP #13 RECIRC. FLOW  
INSTRUMENT ROOM R.B. EL. 237'-0"

INSTRUMENT DIAGRAM

|          |     |                     |               |                  |
|----------|-----|---------------------|---------------|------------------|
| DR. B.S. | TR. | CK. M.J.B.          | DATE 11-22-93 | SCALE NONE       |
| APPROVED |     | APPROVED            |               | INDEX 3-N2-S18.8 |
| APPROVED |     | DWG. NO. LR-69020-C | SPL 3         | REV. 0           |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 6   |      |    |         |     |      |



LR NOTE  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS

REF.  
P & ID C-18020-C  
PIPING C-18473-C (S18.8)  
C-18474-C SH. 2 (S18.8)  
LOOP C-22006-C (E21.5)  
SH. 5 & 6

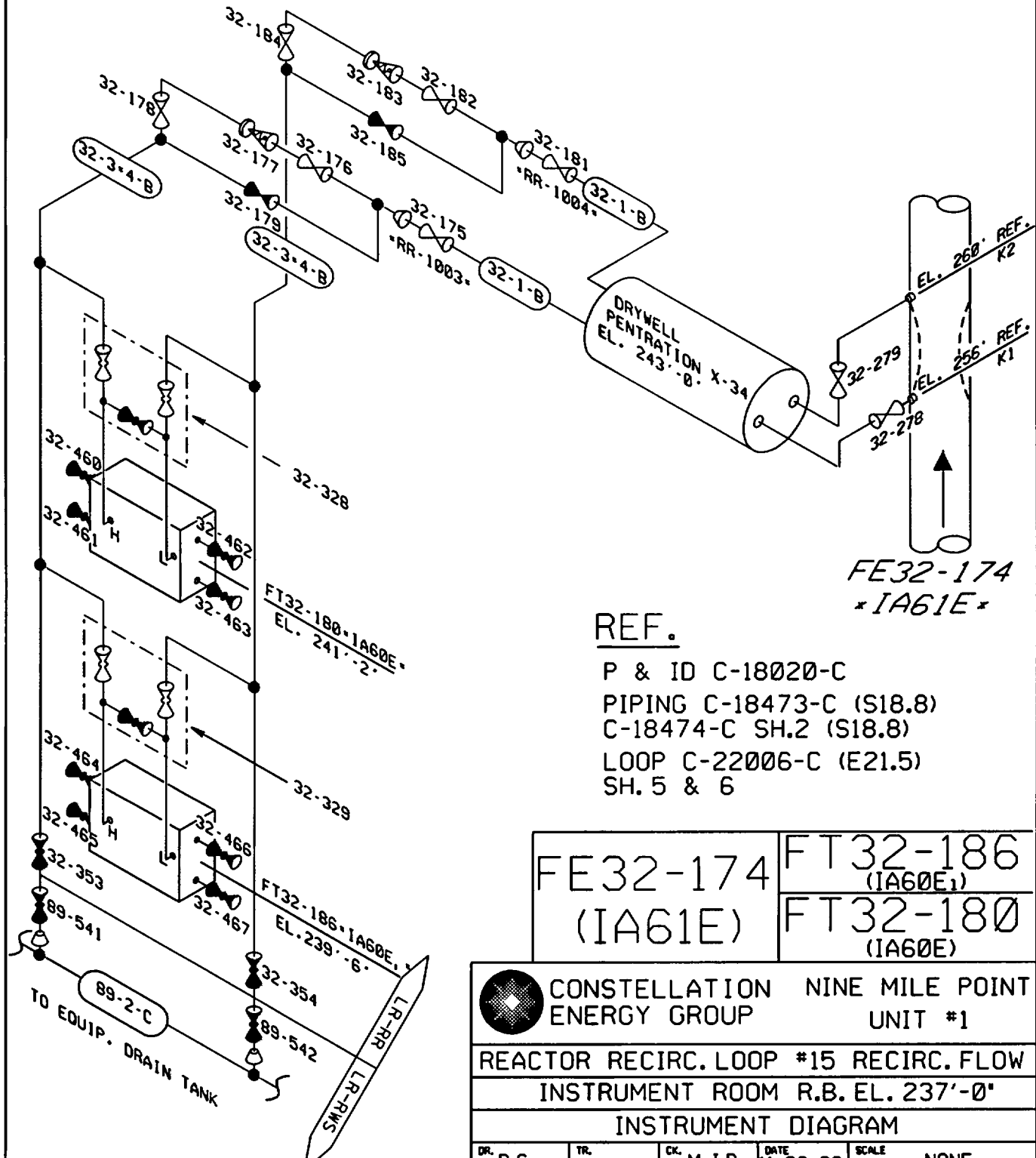
|                     |                                   |
|---------------------|-----------------------------------|
| FE32-161<br>(IA610) | FT32-173<br>(IA60D <sub>1</sub> ) |
|                     | FT32-167<br>(IA60D)               |

|                                       |     |                            |               |
|---------------------------------------|-----|----------------------------|---------------|
|                                       |     | NINE MILE POINT<br>UNIT #1 |               |
| REACTOR RECIRC. LOOP #14 RECIRC. FLOW |     |                            |               |
| INSTRUMENT ROOM R.B. EL. 237'-0"      |     |                            |               |
| INSTRUMENT DIAGRAM                    |     |                            |               |
| DR. B.S.                              | TR. | CX. M.J.B.                 | DATE 11-22-93 |
| APPROVED                              |     | APPROVED                   |               |
| APPROVED                              |     | DRWG. NO. LR-69020-C       | SCALE NONE    |
| INDEX 3-N2-S18.8                      |     | REV. 4                     |               |

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|     |   |   |   |   |      |    |     |    |     |                                   |
|-----|---|---|---|---|------|----|-----|----|-----|-----------------------------------|
| REV | C | A | U | F | DATE | BY | MOD | NO | DTM | REMARKS                           |
| B   |   |   |   |   |      |    |     |    |     | INITIAL ISSUE<br>DCB-NR2200H-8439 |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



FE32-174  
\*IA61E\*

REF.

P & ID C-18020-C  
PIPING C-18473-C (S18.8)  
C-18474-C SH.2 (S18.8)  
LOOP C-22006-C (E21.5)  
SH. 5 & 6

|                     |                                   |
|---------------------|-----------------------------------|
| FE32-174<br>(IA61E) | FT32-186<br>(IA60E <sub>1</sub> ) |
|                     | FT32-180<br>(IA60E)               |

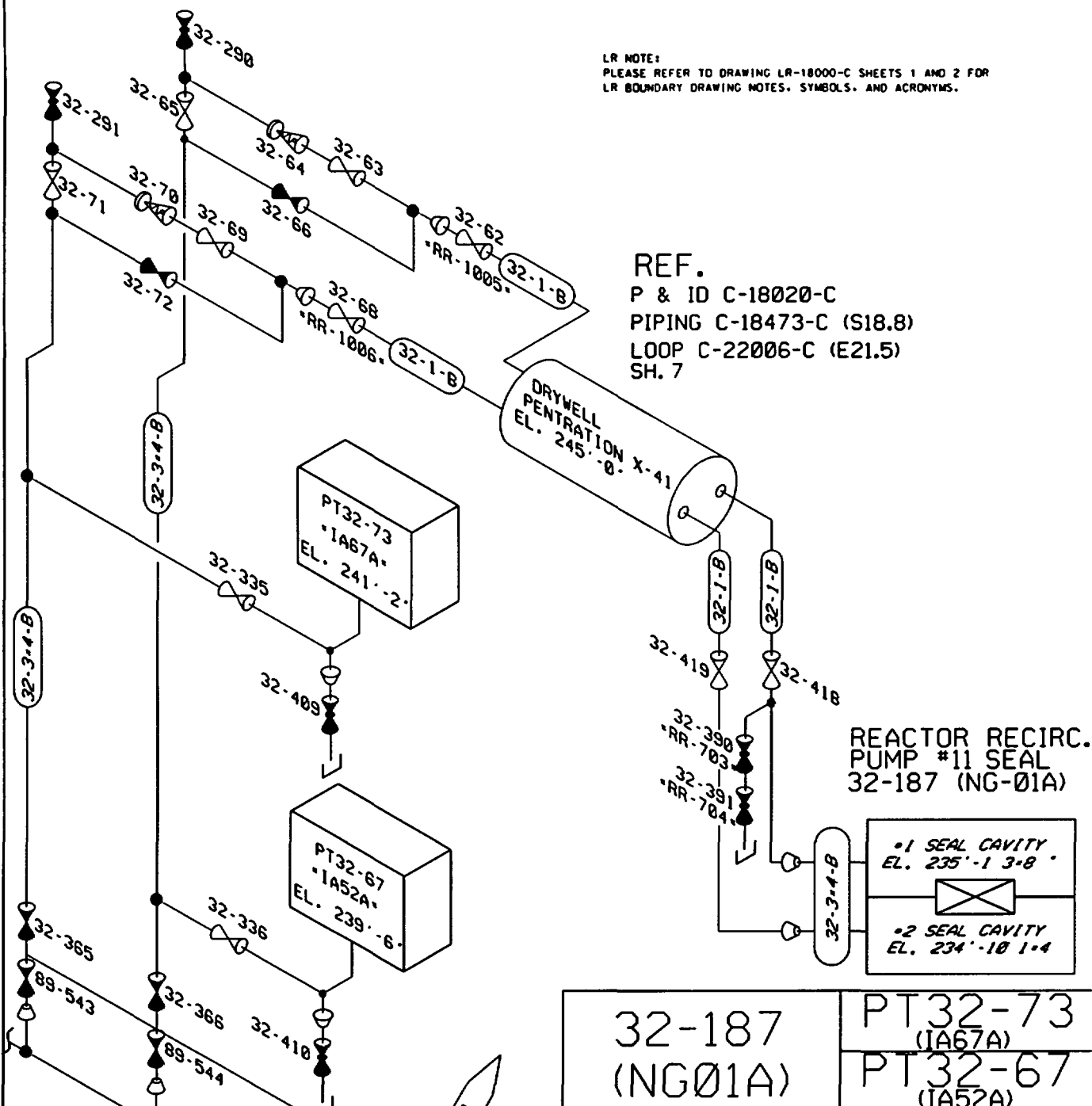
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|---|-----|---|------------------|---------------------|--|
|   |     | CONSTELLATION NINE MILE POINT<br>ENERGY GROUP |                  | UNIT #1             |  |
| REACTOR RECIRC. LOOP #15 RECIRC. FLOW<br>INSTRUMENT ROOM R.B. EL. 237'-0" |     |   |                  |                     |  |
| INSTRUMENT DIAGRAM  |     |   |                  |                     |  |
| DR.<br>B.S.   | TR. | CK.<br>M.J.B.                                 | DATE<br>11-22-93 | SCALE<br>NONE       |  |
| APPROVED  |     | APPROVED                                      |                  | INDEX<br>3-N2-S18.8 |  |
| APPROVED  |     | DWG. NO.<br>LR-69020-C                        | SHEET<br>5       | REV.<br>0           |  |

|     |      |    |         |      |      |
|-----|------|----|---------|------|------|
| REV | DATE | BY | REMARKS | CHK. | APP. |
| 0   |      |    |         |      |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.


REF.  
P & ID C-18020-C  
PIPING C-18473-C (S18.8)  
LOOP C-22006-C (E21.5)  
SH. 7



REACTOR RECIRC.  
PUMP #11 SEAL  
32-187 (NG-01A)

\*1 SEAL CAVITY  
EL. 235'-1 3-8  
\*2 SEAL CAVITY  
EL. 234'-10 1-4

32-187 (NG01A) | PT32-73 (IA67A)  
PT32-67 (IA52A)

|  |            |         |            |
|--|------------|---------|------------|
|  CONSTELLATION NINE MILE POINT ENERGY GROUP |            | UNIT #1 |            |
| REACTOR RECIRC. PUMP #11 SEAL PRESS  |            |         |            |
| LOWER INST. ROOM R.B. EL. 237'   |            |         |            |
| INSTRUMENT DIAGRAM   |            |         |            |
| DR.  | B.S.       | TR.     |            |
| CK.  | M.J.B.     | DATE    | 4-5-93     |
| APPROVED   |            | SCALE   | NONE       |
| APPROVED   |            | INDEX   | 3-N2-S18.8 |
| APPROVED   | DWG. NO.   | SH.     | REV.       |
|  | LR-69020-C | 6       | 0          |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 0   |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REF.  
P & ID C-18020-C  
PIPING C-18474-C (S18.8)  
SH. 1  
LOOP C-22006-C (E21.5)  
SH. 7

REACTOR RECIRC.  
PUMP #12 SEAL  
32-188 (NG-01B)

#1 SEAL CAVITY  
EL. 235'-1 3-8  
#2 SEAL CAVITY  
EL. 234'-10 1-4

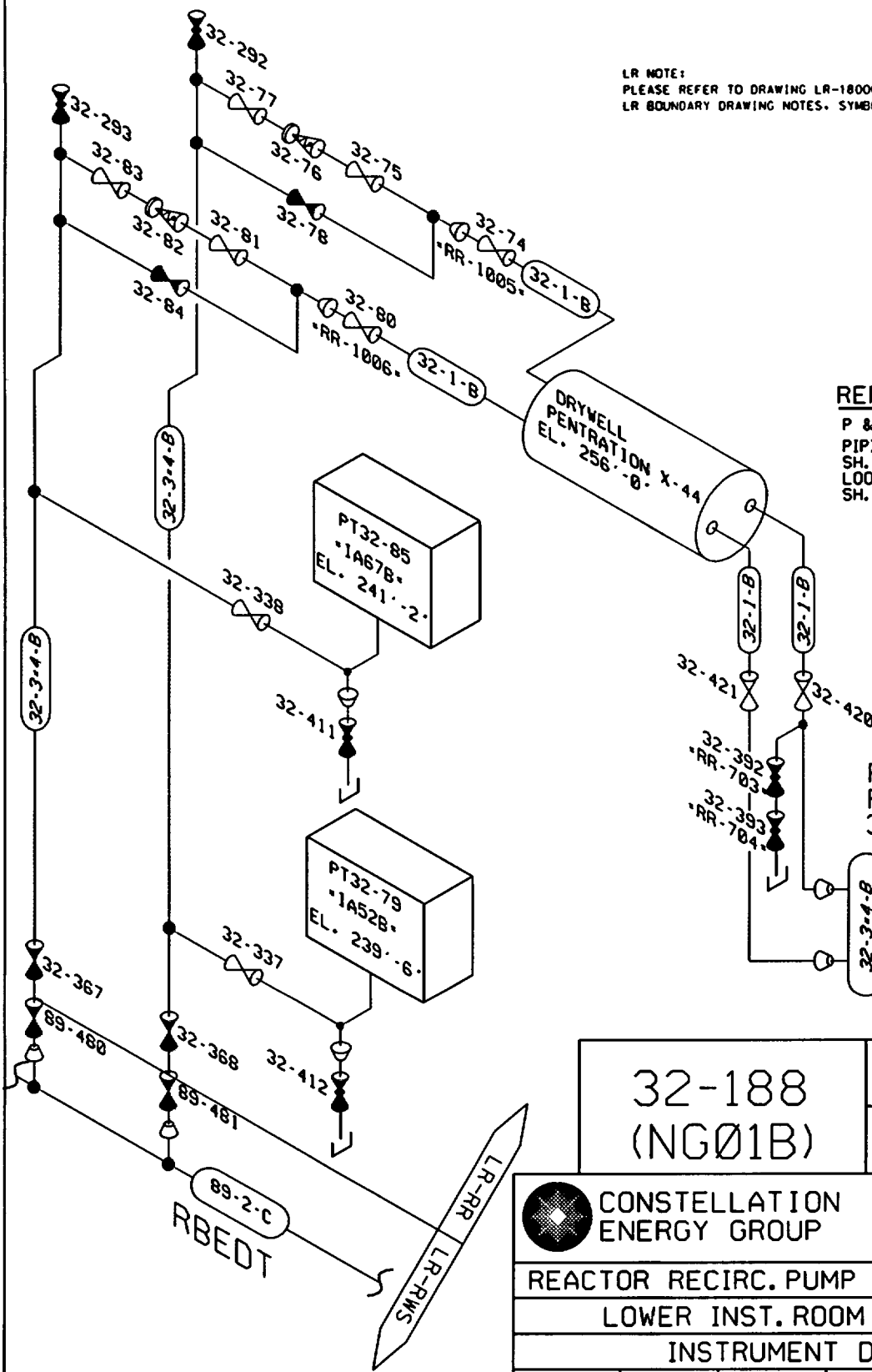
|                   |                    |
|-------------------|--------------------|
| 32-188<br>(NG01B) | PT32-85<br>(IA67B) |
|                   | PT32-79<br>(IA52B) |

 CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

REACTOR RECIRC. PUMP #12 SEAL PRESS  
LOWER INST. ROOM R.B. EL. 237'

INSTRUMENT DIAGRAM

|          |          |     |          |        |            |        |            |      |
|----------|----------|-----|----------|--------|------------|--------|------------|------|
| DR.      | B.S.     | TR. | CK.      | M.J.B. | DATE       | 4-5-93 | SCALE      | NONE |
| APPROVED | APPROVED |     | APPROVED |        | INDEX      |        | 3-N2-S18.8 |      |
| APPROVED | APPROVED |     | DWG. NO. |        | LR-69020-C |        | SH.        | 7    |
|          |          |     |          |        |            |        | REV.       | 0    |

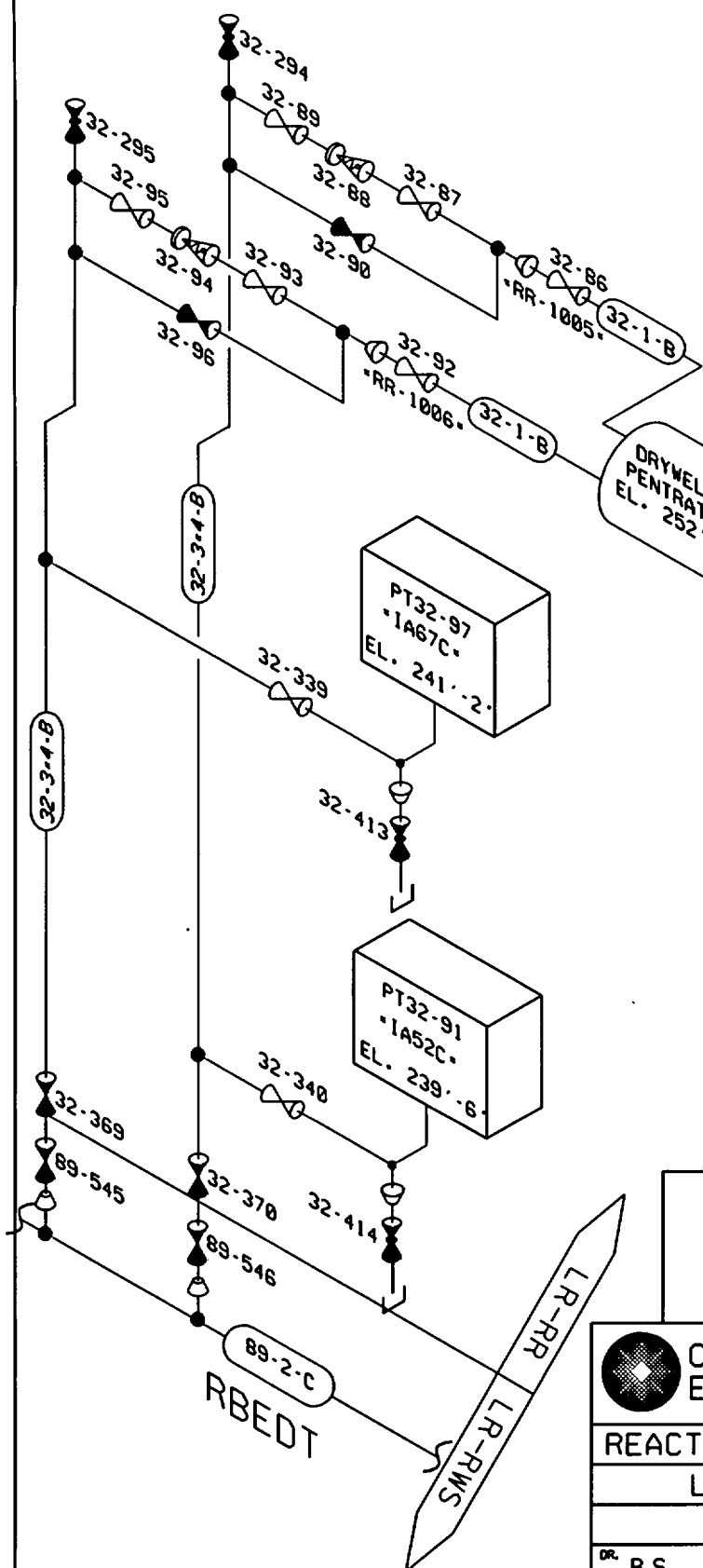
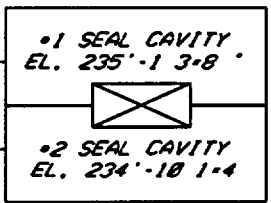


| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REF.  
P & ID C-18020-C  
PIPING C-18474-C (S18.8)  
SH. 1  
LOOP C-22006-C (E21.5)  
SH. 7

REACTOR RECIRC.  
PUMP #13 SEAL  
32-189 (NG-Ø1C)



|                   |                    |
|-------------------|--------------------|
| 32-189<br>(NGØ1C) | PT32-97<br>(IA67C) |
|                   | PT32-91<br>(IA67C) |

CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

REACTOR RECIRC. PUMP #13 SEAL PRESS  
LOWER INST. ROOM R.B. EL. 237'  
INSTRUMENT DIAGRAM

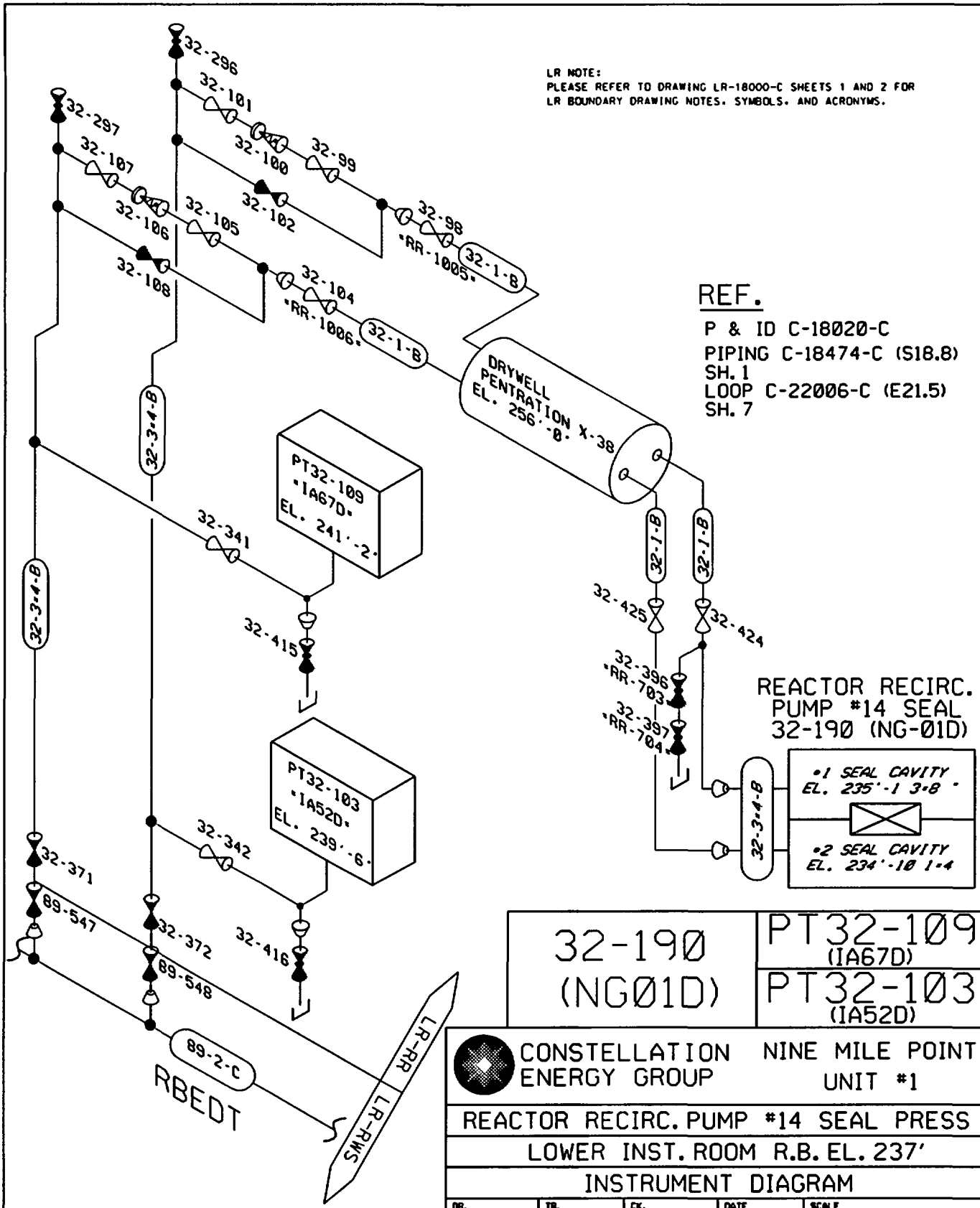
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|----------|-----|---------------------|-------------|------------------|
| DR. B.S. | TR. | CK. M.J.B.          | DATE 4-5-93 | SCALE NONE       |
| APPROVED |     | APPROVED            |             | INDEX 3-N2-S18.8 |
| APPROVED |     | DWG. NO. LR-69020-C | SPL 8       | REV. 0           |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 0   |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**REF.**

P & ID C-18020-C  
PIPING C-18474-C (S18.8)  
SH. 1  
LOOP C-22006-C (E21.5)  
SH. 7



32-190  
(NG01D)

|                     |
|---------------------|
| PT32-109<br>(IA67D) |
| PT32-103<br>(IA52D) |

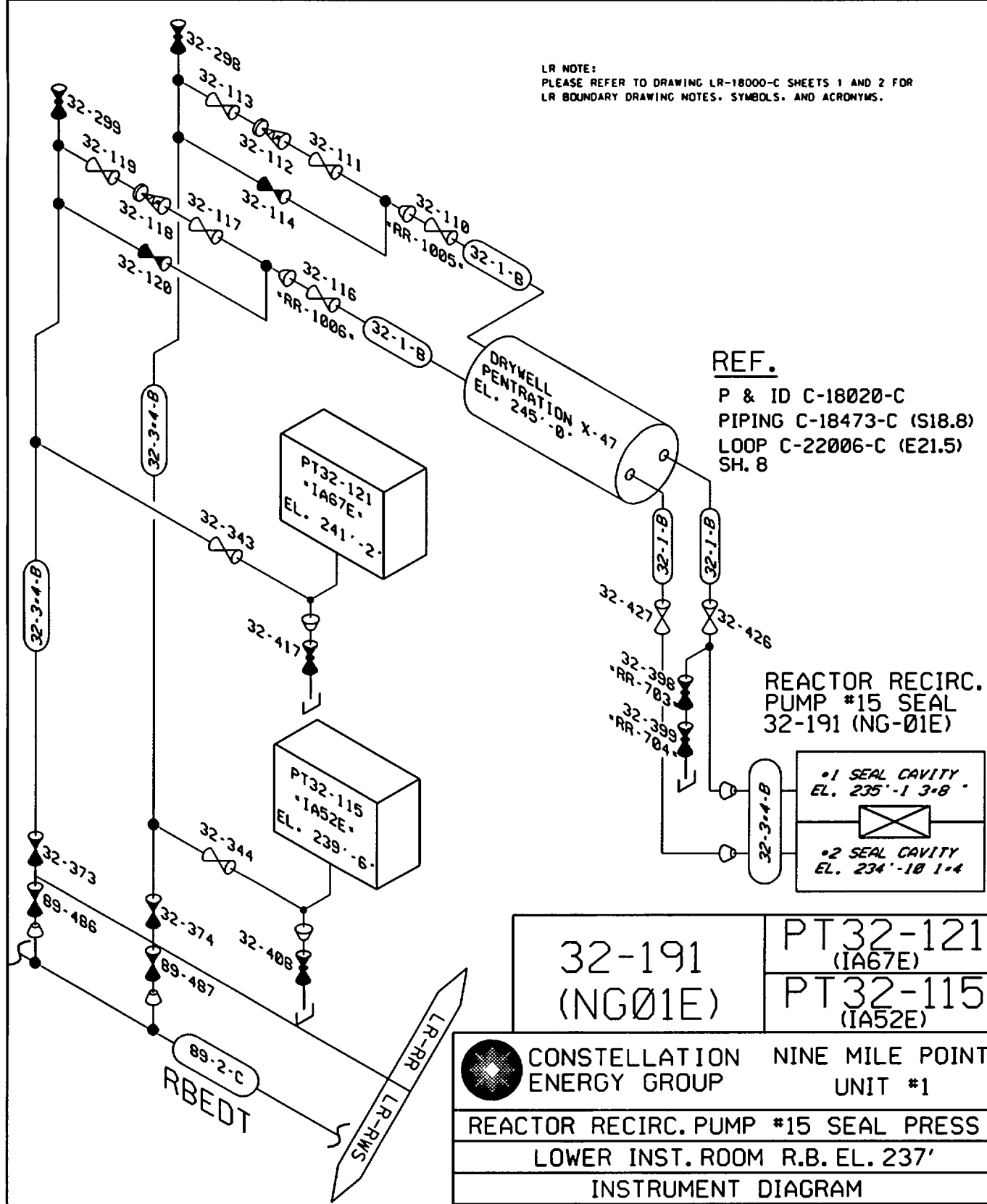
**CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1**

**REACTOR RECIRC. PUMP #14 SEAL PRESS LOWER INST. ROOM R.B. EL. 237' INSTRUMENT DIAGRAM**

|          |     |                     |             |                  |
|----------|-----|---------------------|-------------|------------------|
| DR. B.S. | TR. | CK. M.J.B.          | DATE 4-5-93 | SCALE NONE       |
| APPROVED |     | APPROVED            |             | INDEX 3-N2-S18.8 |
| APPROVED |     | DWG. NO. LR-69020-C | SH. 9       | REV. 0           |

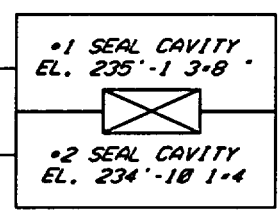
| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
| 0   |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.  
P & ID C-18020-C  
PIPING C-18473-C (S18.8)  
LOOP C-22006-C (E21.5)  
SH. 8

REACTOR RECIRC.  
PUMP #15 SEAL  
32-191 (NG-01E)



|                   |                     |
|-------------------|---------------------|
| 32-191<br>(NG01E) | PT32-121<br>(IA67E) |
|                   | PT32-115<br>(IA52E) |

CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

REACTOR RECIRC. PUMP #15 SEAL PRESS

LOWER INST. ROOM R.B. EL. 237'

INSTRUMENT DIAGRAM

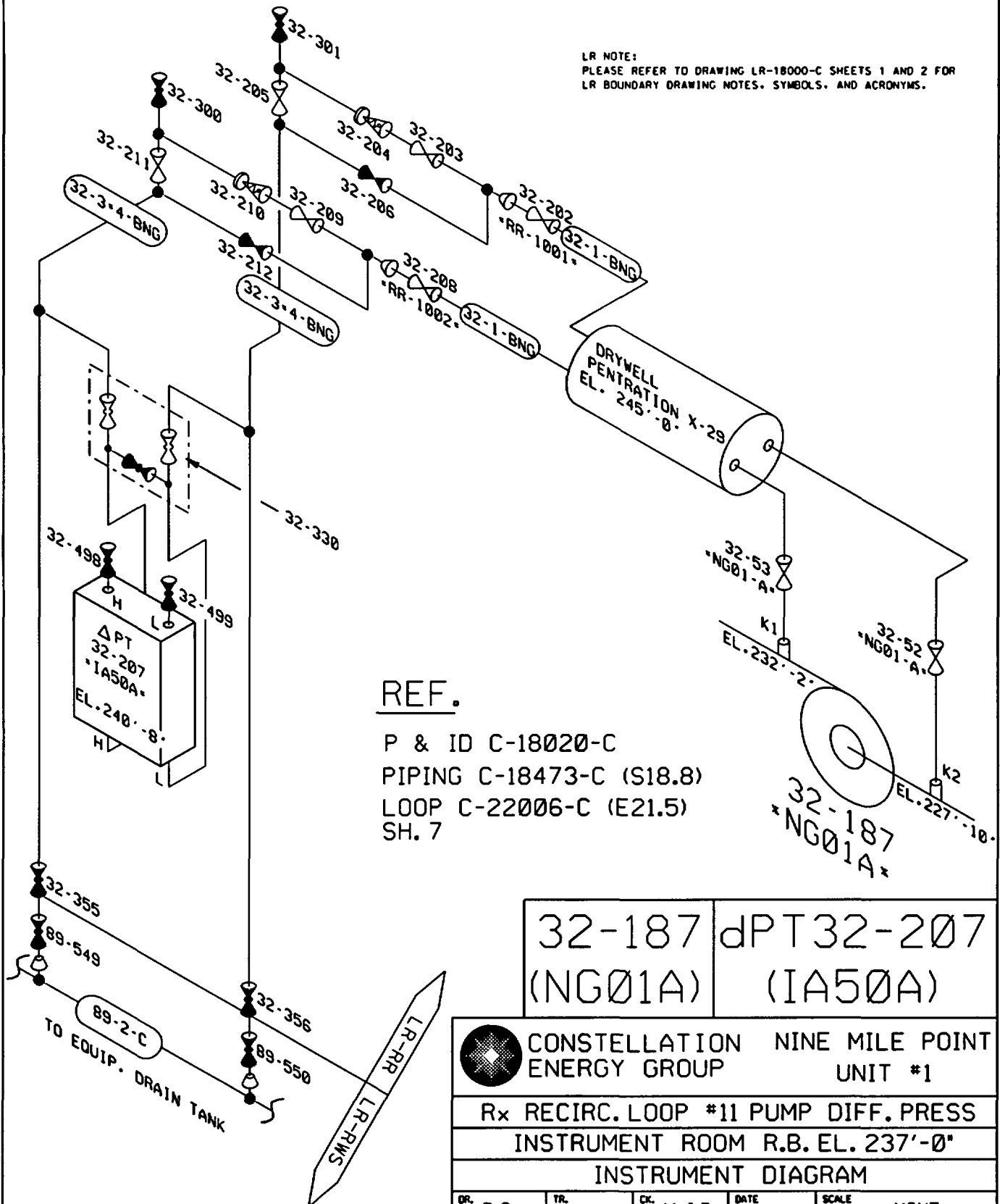
|          |     |            |             |            |
|----------|-----|------------|-------------|------------|
| DR. B.S. | TR. | CK. M.J.B. | DATE 4-5-93 | SCALE NONE |
|----------|-----|------------|-------------|------------|

|          |          |                  |
|----------|----------|------------------|
| APPROVED | APPROVED | INDEX 3-N2-S18.8 |
|----------|----------|------------------|

|          |                     |        |        |
|----------|---------------------|--------|--------|
| APPROVED | DWG. NO. LR-69020-C | SIL 10 | REV. 0 |
|----------|---------------------|--------|--------|

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.

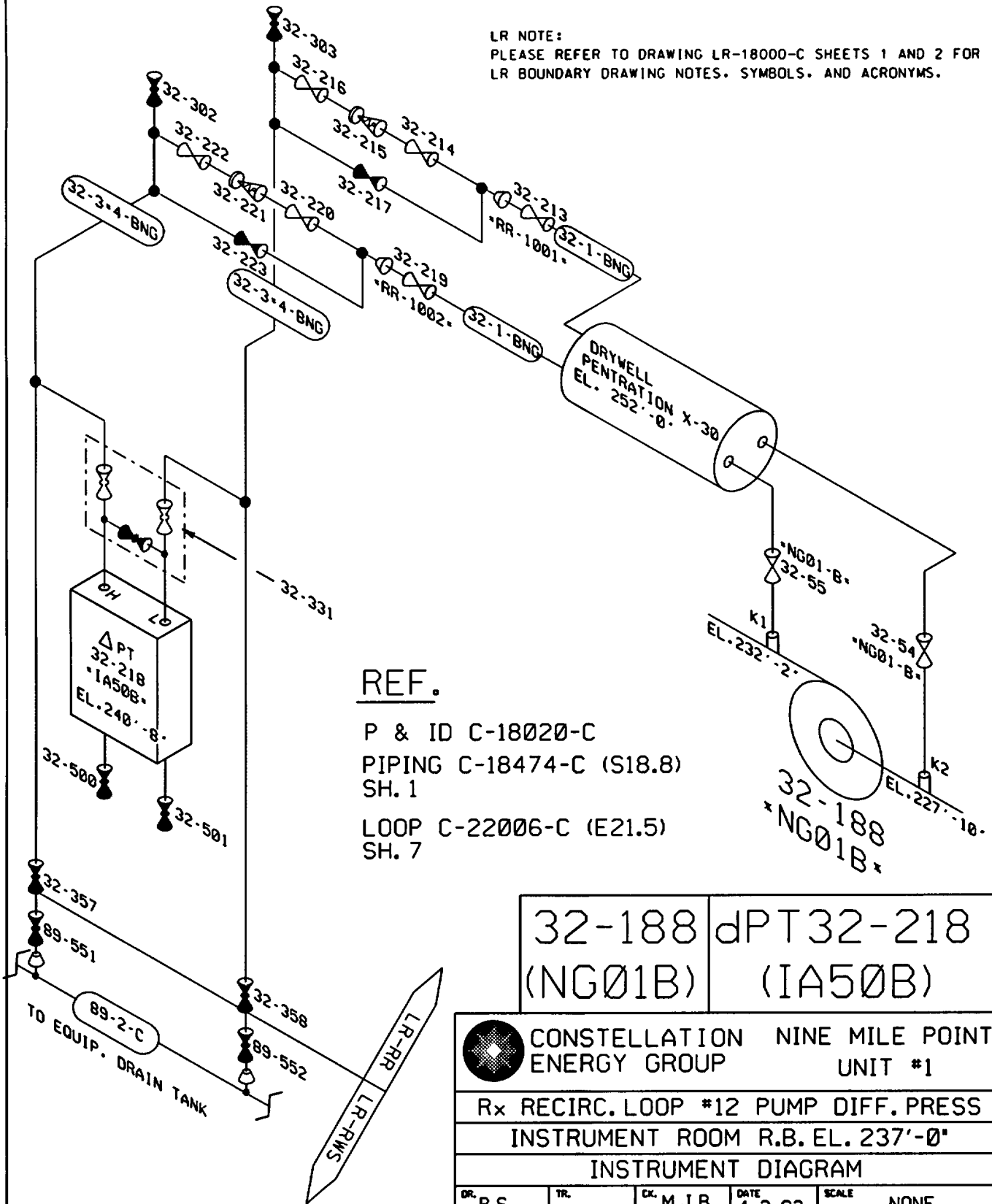
P & ID C-18020-C  
PIPING C-18473-C (S18.8)  
LOOP C-22006-C (E21.5)  
SH. 7

|         |            |
|---------|------------|
| 32-187  | dPT 32-207 |
| (NG01A) | (IA50A)    |

|                                      |     |  |             |                  |        |
|--------------------------------------|-----|--|-------------|------------------|--------|
|                                      |     | CONSTELLATION NINE MILE POINT ENERGY GROUP |             | UNIT #1          |        |
| Rx RECIRC. LOOP #11 PUMP DIFF. PRESS |     |  |             |                  |        |
| INSTRUMENT ROOM R.B. EL. 237'-0"     |     |  |             |                  |        |
| INSTRUMENT DIAGRAM                   |     |  |             |                  |        |
| DR. B.S.                             | TR. | CK. M.J.B.                                 | DATE 4-2-93 | SCALE NONE       |        |
| APPROVED                             |     | APPROVED                                   |             | INDEX 3-N2-S18.8 |        |
| APPROVED                             |     | DNG. NO. LR-69020-C                        |             | SH. 11           | REV. 0 |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 6   |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.

P & ID C-18020-C  
PIPING C-18474-C (S18.8)  
SH. 1  
LOOP C-22006-C (E21.5)  
SH. 7

|                   |                       |
|-------------------|-----------------------|
| 32-188<br>(NG01B) | dPT 32-218<br>(IA50B) |
|-------------------|-----------------------|

 CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1

Rx RECIRC. LOOP #12 PUMP DIFF. PRESS INSTRUMENT ROOM R.B. EL. 237'-0"

INSTRUMENT DIAGRAM

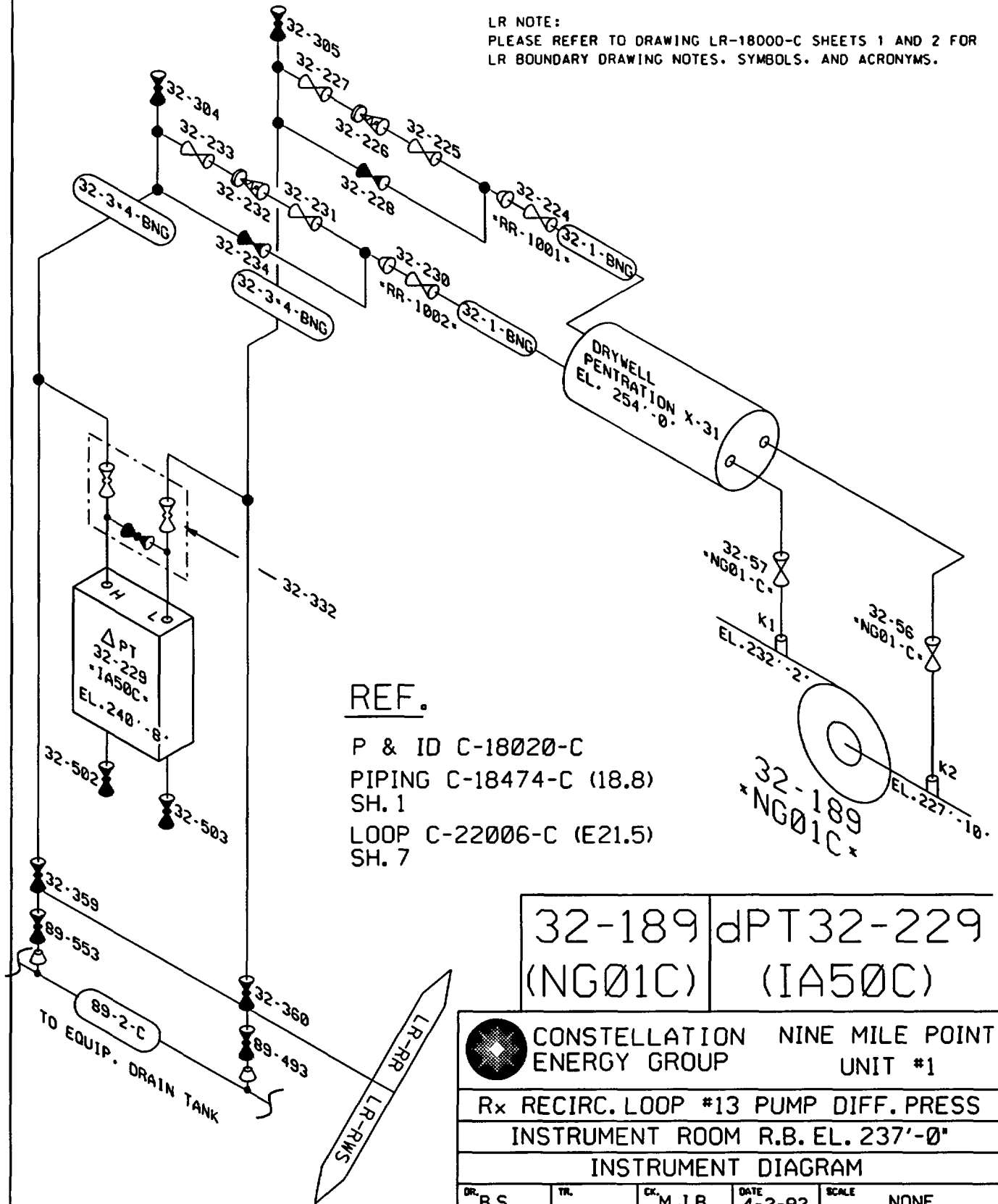
|          |     |            |             |            |
|----------|-----|------------|-------------|------------|
| DR. B.S. | TR. | CK. M.J.B. | DATE 4-2-93 | SCALE NONE |
|----------|-----|------------|-------------|------------|

|          |          |                  |
|----------|----------|------------------|
| APPROVED | APPROVED | INDEX 3-N2-S18.8 |
|----------|----------|------------------|

|          |                     |        |        |
|----------|---------------------|--------|--------|
| APPROVED | DWG. NO. LR-69020-C | SH. 12 | REV. 0 |
|----------|---------------------|--------|--------|

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.

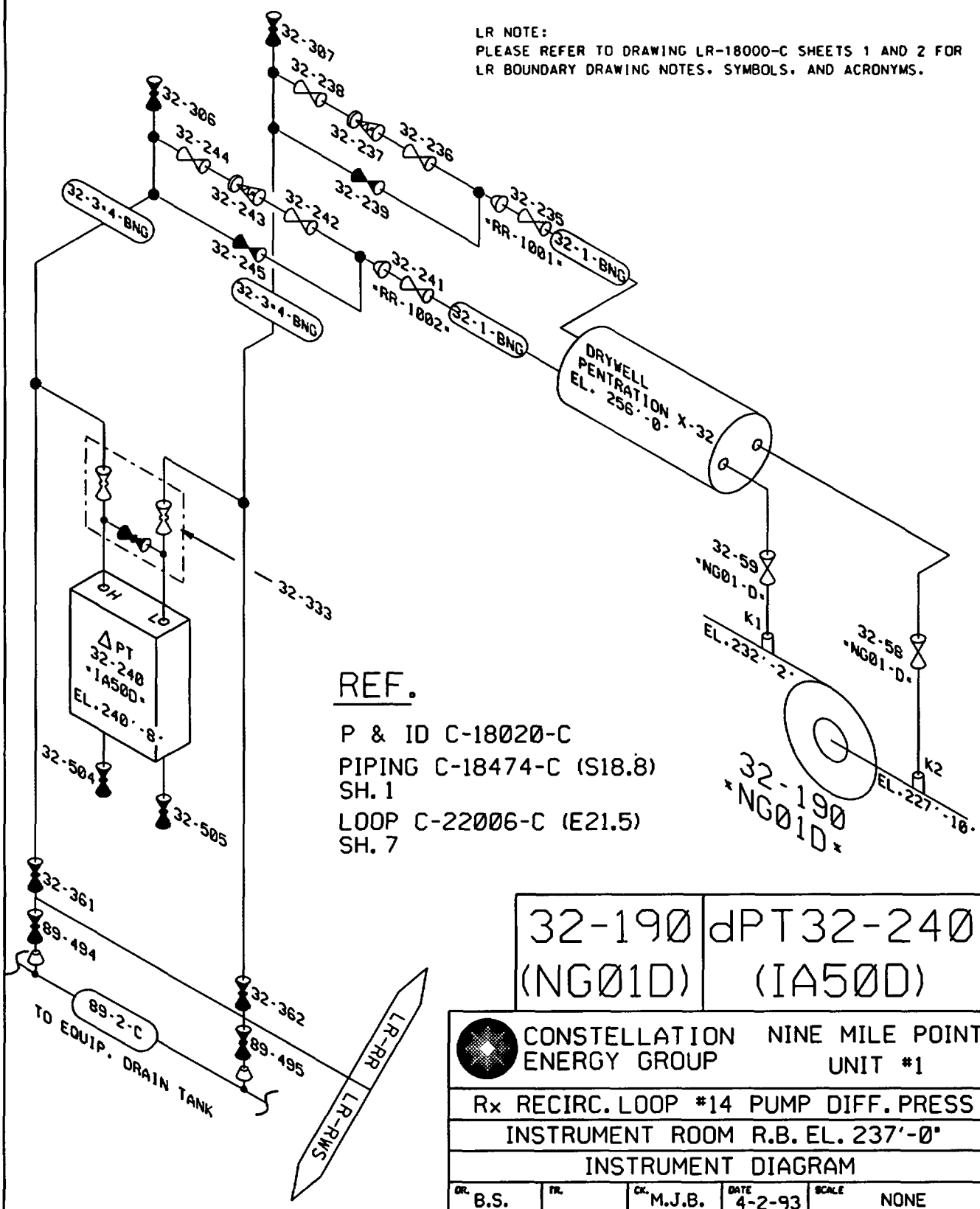
P & ID C-18020-C  
PIPING C-18474-C (18.8)  
SH. 1  
LOOP C-22006-C (E21.5)  
SH. 7

|                   |                       |
|-------------------|-----------------------|
| 32-189<br>(NG01C) | dPT 32-229<br>(IA50C) |
|-------------------|-----------------------|

|   |          |  |                  |                     |
|---|----------|--|------------------|---------------------|
|  |          | CONSTELLATION NINE MILE POINT ENERGY GROUP |                  | UNIT #1             |
| Rx RECIRC. LOOP #13 PUMP DIFF. PRESS INSTRUMENT ROOM R.B. EL. 237'-0"               |          |  |                  |                     |
| INSTRUMENT DIAGRAM  |          |  |                  |                     |
| DR. B.S.  | TR.      | CK. M.J.B.                                 | DATE 4-2-93      | SCALE NONE          |
| APPROVED  | APPROVED | APPROVED                                   | INDEX 3-N2-S18.8 |                     |
| REV   | DATE     | BY   | REMARKS          | CK. APP.            |
|   |          |  |                  | APPROVED            |
|   |          |  |                  | DRG. NO. LR-69020-C |
|   |          |  |                  | SH. 13              |
|   |          |  |                  | REV. 0              |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.

- P & ID C-18020-C
- PIPING C-18474-C (S18.8)
- SH. 1
- LOOP C-22006-C (E21.5)
- SH. 7

|         |            |
|---------|------------|
| 32-190  | dPT 32-240 |
| (NG01D) | (IA500)    |

CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1

Rx RECIRC. LOOP #14 PUMP DIFF. PRESS INSTRUMENT ROOM R.B. EL. 237'-0"

INSTRUMENT DIAGRAM

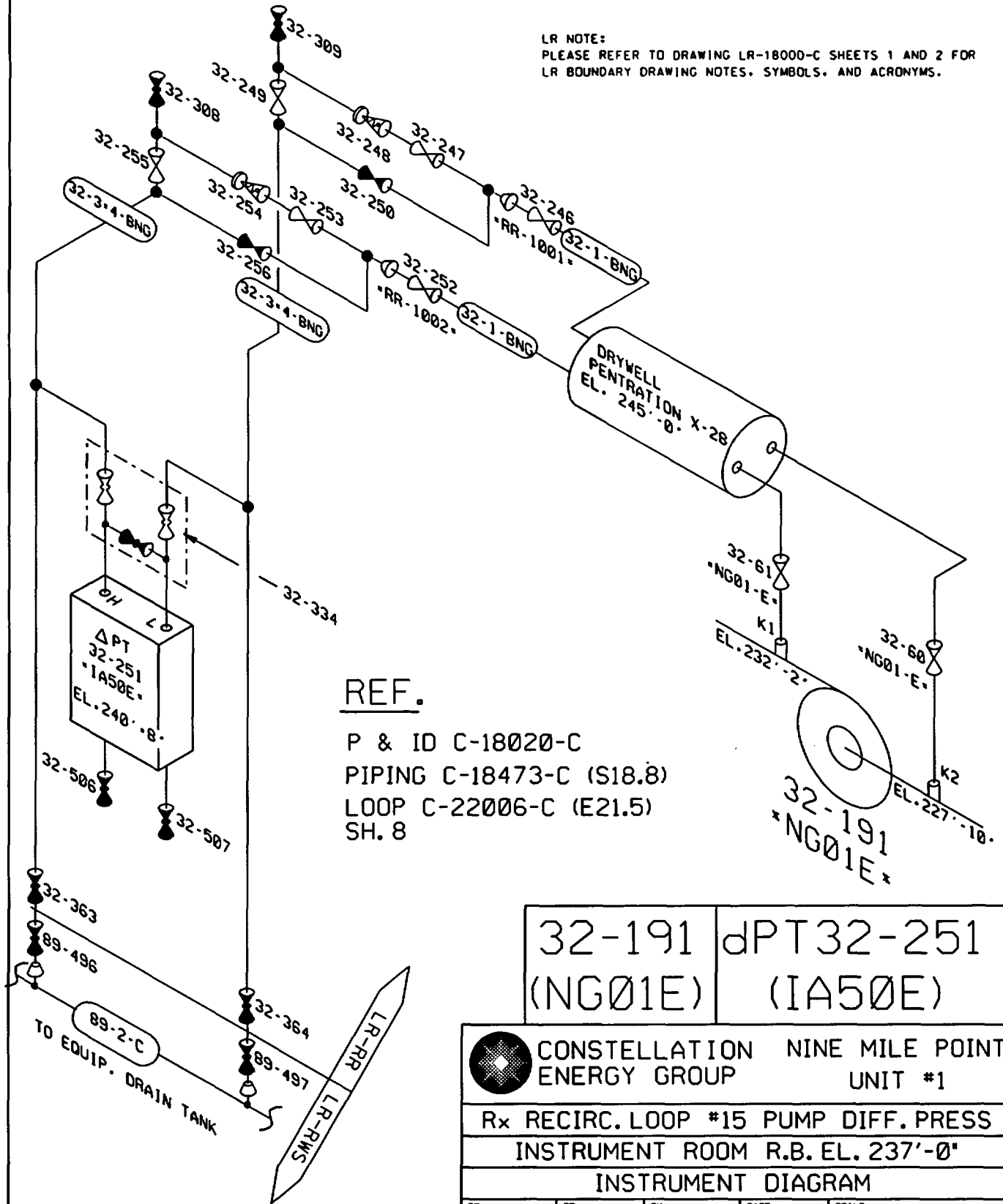
|          |     |            |             |            |
|----------|-----|------------|-------------|------------|
| DR. B.S. | TR. | CK. M.J.B. | DATE 4-2-93 | SCALE NONE |
|----------|-----|------------|-------------|------------|

|          |          |                  |
|----------|----------|------------------|
| APPROVED | APPROVED | INDEX 3-N2-S18.8 |
|----------|----------|------------------|

|          |                     |        |        |
|----------|---------------------|--------|--------|
| APPROVED | DWG. NO. LR-69020-C | SIL 14 | REV. 0 |
|----------|---------------------|--------|--------|

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



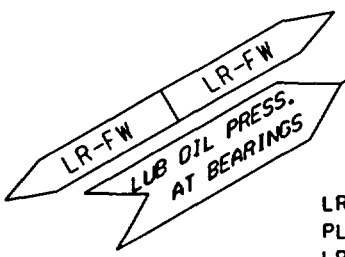
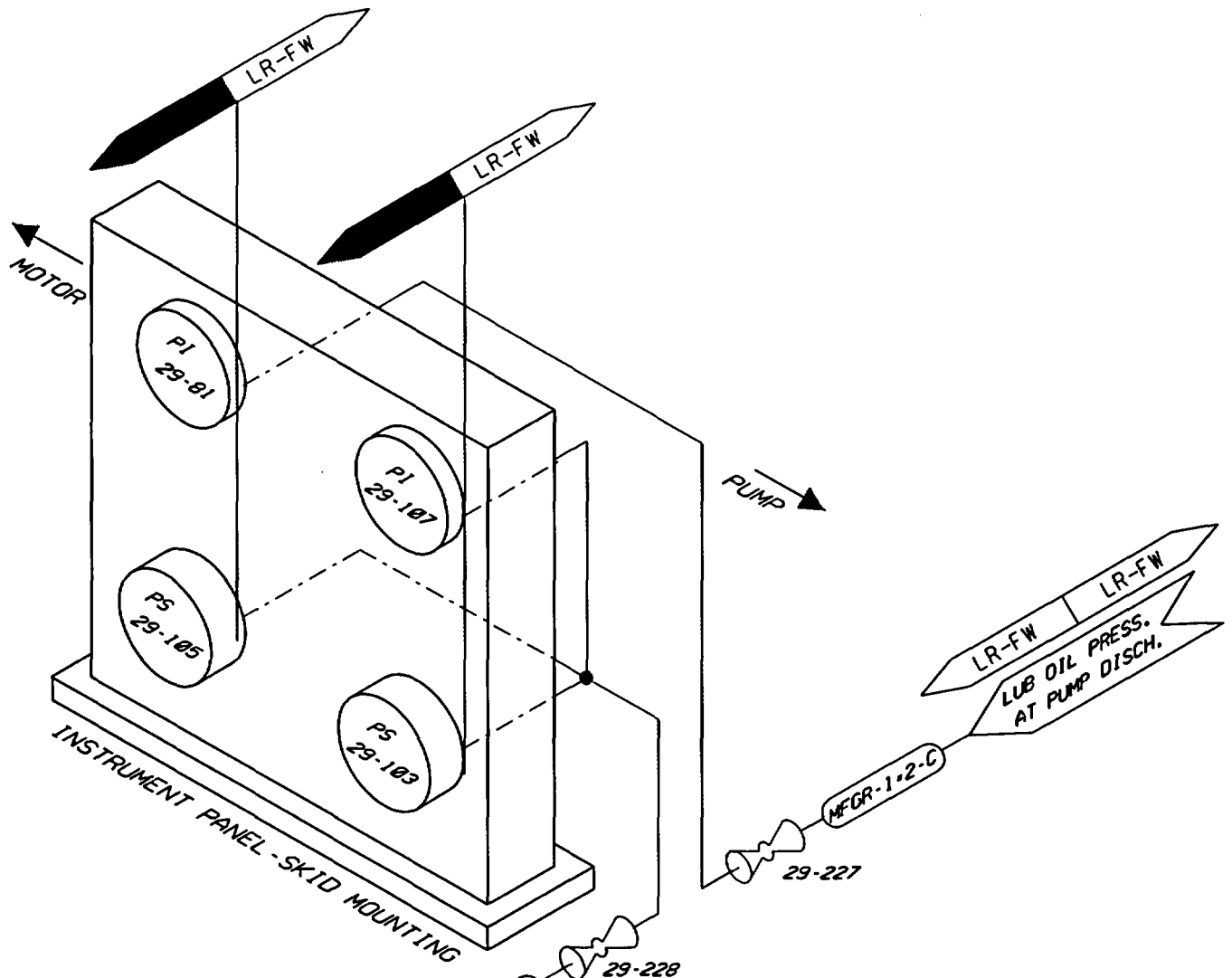
REF.

P & ID C-18020-C  
PIPING C-18473-C (S18.8)  
LOOP C-22006-C (E21.5)  
SH. 8

|                   |                       |
|-------------------|-----------------------|
| 32-191<br>(NG01E) | dPT 32-251<br>(IA50E) |
|-------------------|-----------------------|

|   |     |  |             |                  |
|---|-----|--|-------------|------------------|
|  |     | CONSTELLATION NINE MILE POINT ENERGY GROUP |             | UNIT #1          |
| Rx RECIRC. LOOP #15 PUMP DIFF. PRESS  |     |  |             |                  |
| INSTRUMENT ROOM R.B. EL. 237'-0"  |     |  |             |                  |
| INSTRUMENT DIAGRAM  |     |  |             |                  |
| DR. B.S.  | TR. | CK. M.J.B                                  | DATE 4-2-93 | SCALE NONE       |
| APPROVED  |     | APPROVED                                   |             | INDEX 3-N2-S18.8 |
| APPROVED  |     | DWG. NO. LR-69020-C                        |             | SH. 15 REV. 0    |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |        |
|----|--------|
| PI | 29-81  |
| PI | 29-107 |
| PS | 29-103 |
| PS | 29-105 |

REFERENCE:

P & ID C-18023-C (S16.9)  
PIPING WORTHINGTON DWG.  
SL-12268

 **CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1**

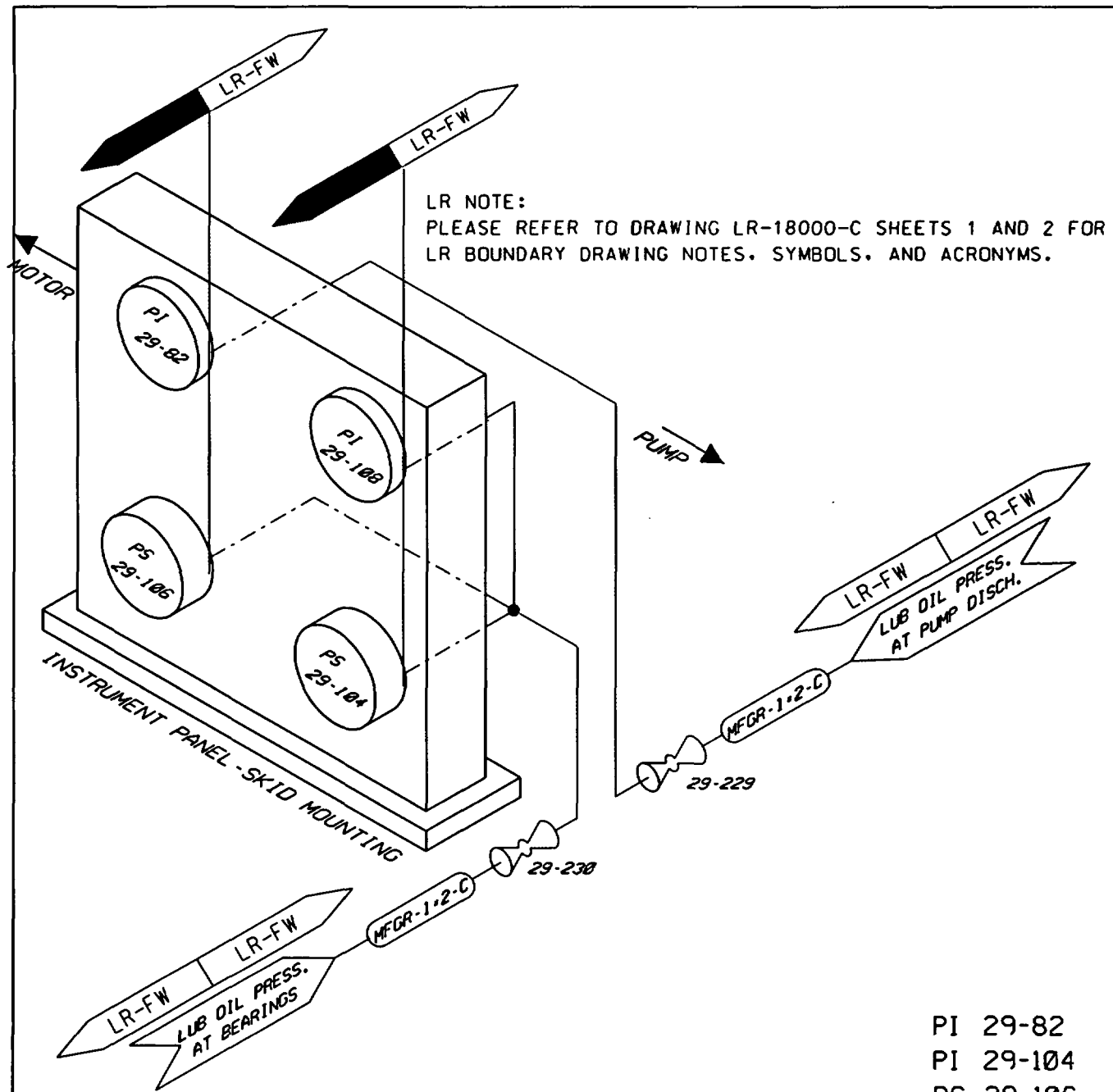
**RFW PUMP #11 LUB OIL PRESSURE**

**TURBINE BUILDING EL. 261' - 0"**

**INSTRUMENT DIAGRAM**

|          |     |          |            |       |              |
|----------|-----|----------|------------|-------|--------------|
| DR.      | TR. | CK.      | DATE       | SCALE | NONE         |
| APPROVED |     | APPROVED |            | INDEX | 3-N2.1-S16.9 |
| APPROVED |     | DWG. NO. | LR-69023-C | SHEET | 1            |
|          |     | REV.     | 0          |       |              |


| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



- PI 29-82
- PI 29-104
- PS 29-106
- PS 29-106

REFERENCE:

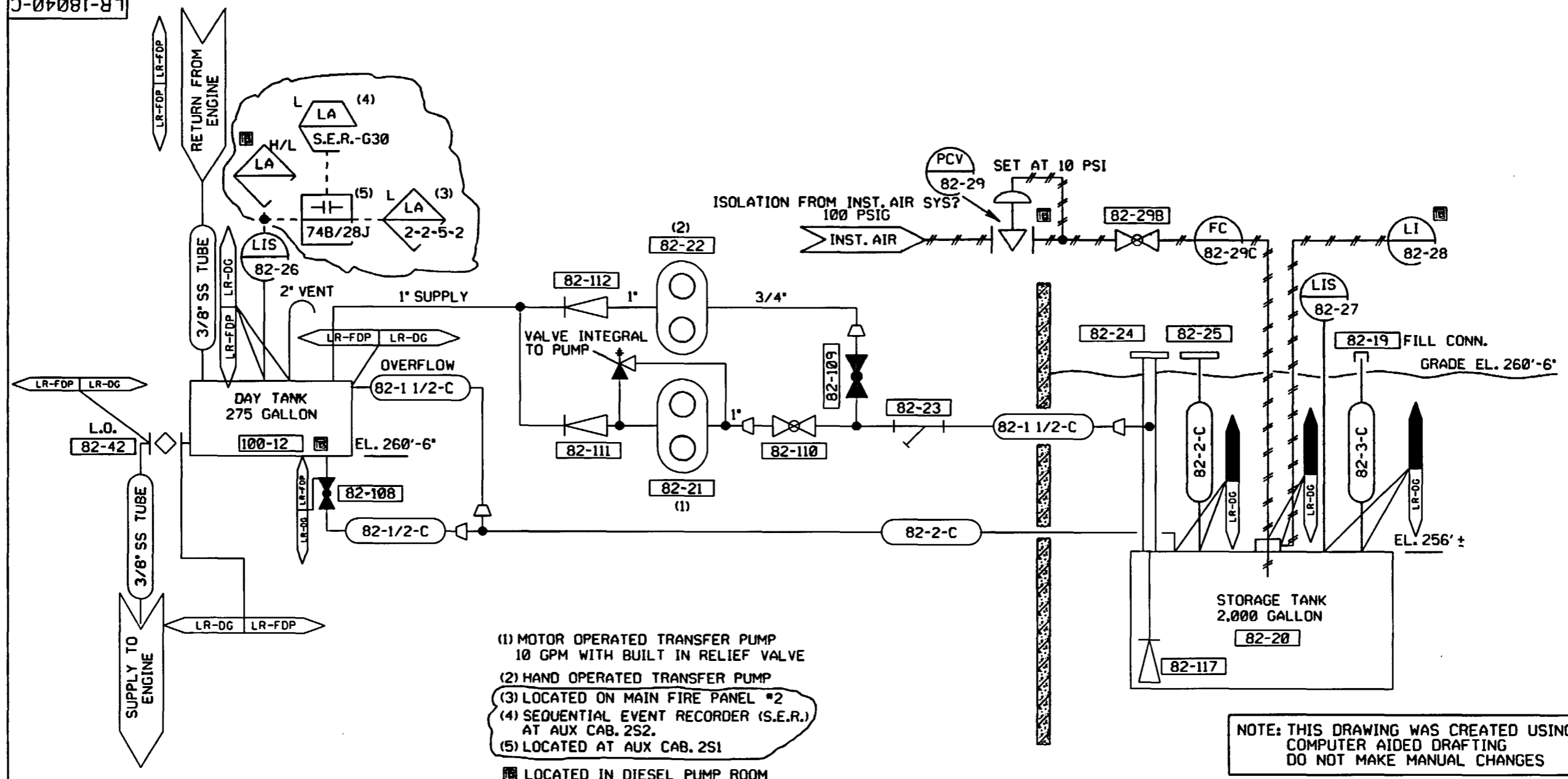
P & ID C-18023-C (S16.9)  
PIPING WORTHINGTON DWG.  
SL-12268

 CONSTELLATION NINE MILE POINT  
ENERGY GROUP UNIT #1

RFW PUMP #12 LUB OIL PRESSURE  
TURBINE BUILDING EL. 261' - 0"  
INSTRUMENT DIAGRAM

|          |     |          |            |              |
|----------|-----|----------|------------|--------------|
| DR.      | TR. | CK.      | DATE       | SCALE        |
| APPROVED |     | APPROVED |            | INDEX        |
| APPROVED |     | DWG. NO. | LR-69023-C | SPL 2 REV. 0 |

|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|



- (1) MOTOR OPERATED TRANSFER PUMP  
10 GPM WITH BUILT IN RELIEF VALVE
- (2) HAND OPERATED TRANSFER PUMP
- (3) LOCATED ON MAIN FIRE PANEL #2
- (4) SEQUENTIAL EVENT RECORDER (S.E.R.)  
AT AUX CAB. 2S2.
- (5) LOCATED AT AUX CAB. 2S1
- ☐ LOCATED IN DIESEL PUMP ROOM

NOTE: THIS DRAWING WAS CREATED USING  
COMPUTER AIDED DRAFTING  
DO NOT MAKE MANUAL CHANGES

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

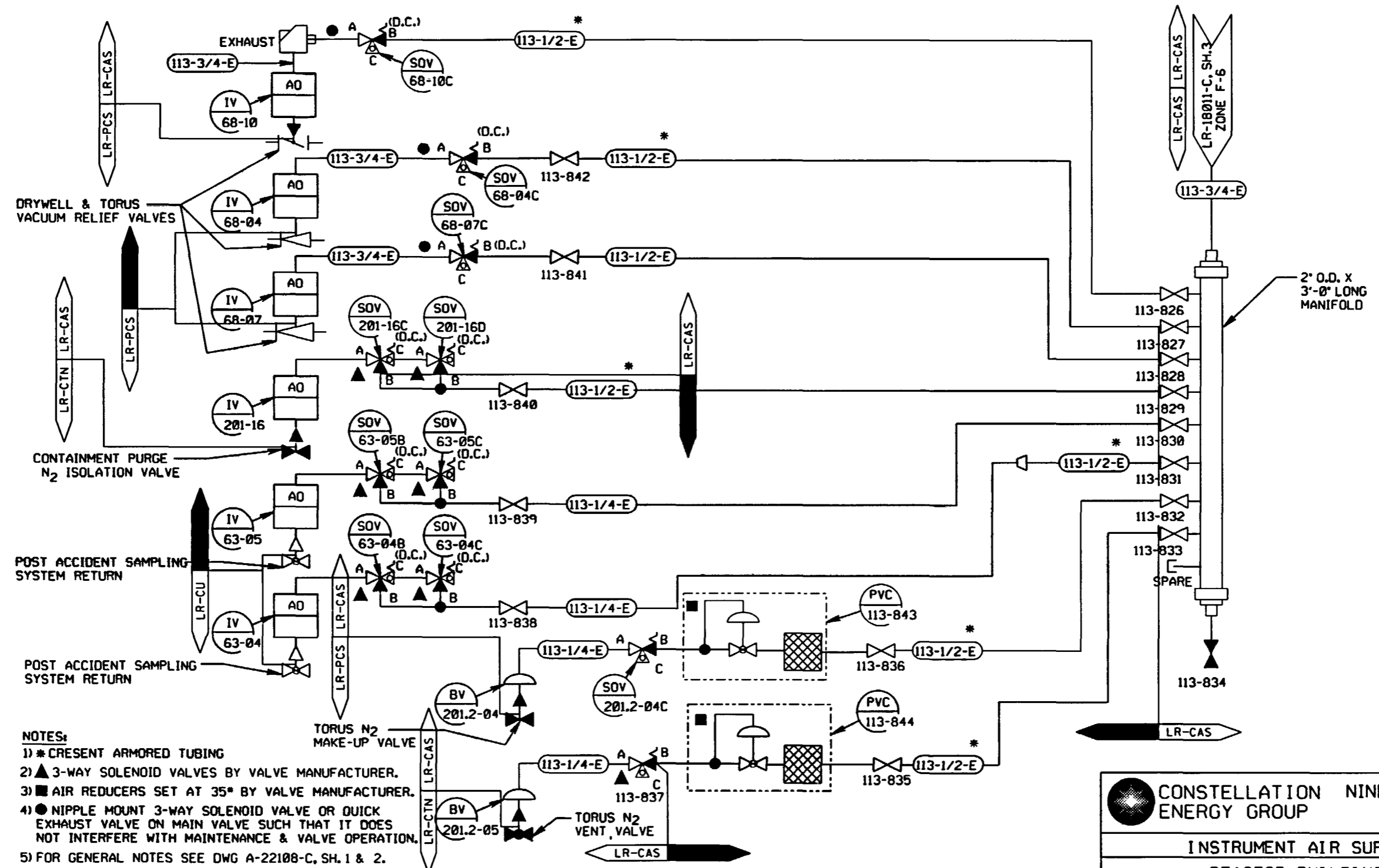
SYSTEM #82

**CONSTELLATION ENERGY GROUP**

NINE MILE POINT NUCLEAR STATION UNIT 1  
FUEL OIL HANDLING SYSTEM  
FOR EMERGENCY DIESEL FIRE PUMP  
P & I DIAGRAM

|          |          |      |       |            |
|----------|----------|------|-------|------------|
| DES.     | CHK.     | DATE | SCALE | NONE       |
| APPROVED | APPROVED |      | INDEX | 3-N2-S15   |
| APPROVED | APPROVED |      | NO.   | LR-18040-C |

| REV | DATE | BY | REMARKS | CK | APP | MF |
|-----|------|----|---------|----|-----|----|
| 0   |      |    |         |    |     |    |



- NOTES:**
- \* CRESENT ARMORED TUBING
  - ▲ 3-WAY SOLENOID VALVES BY VALVE MANUFACTURER.
  - AIR REDUCERS SET AT 35" BY VALVE MANUFACTURER.
  - NIPPLE MOUNT 3-WAY SOLENOID VALVE OR QUICK EXHAUST VALVE ON MAIN VALVE SUCH THAT IT DOES NOT INTERFERE WITH MAINTENANCE & VALVE OPERATION.
  - FOR GENERAL NOTES SEE DWG A-22108-C, SH.1 & 2.
- REFERENCE DRAWINGS:**
- P & I DRAWING C-18006-C & C-18014-C, SH.1  
C-18009-C, SH.1

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |          |
|----|----------|
| IV | 63-04    |
| IV | 63-05    |
| IV | 68-07    |
| IV | 68-10    |
| IV | 201-16   |
| BV | 68-04    |
| BV | 201.2-04 |
| BV | 201.2-05 |

**CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1**

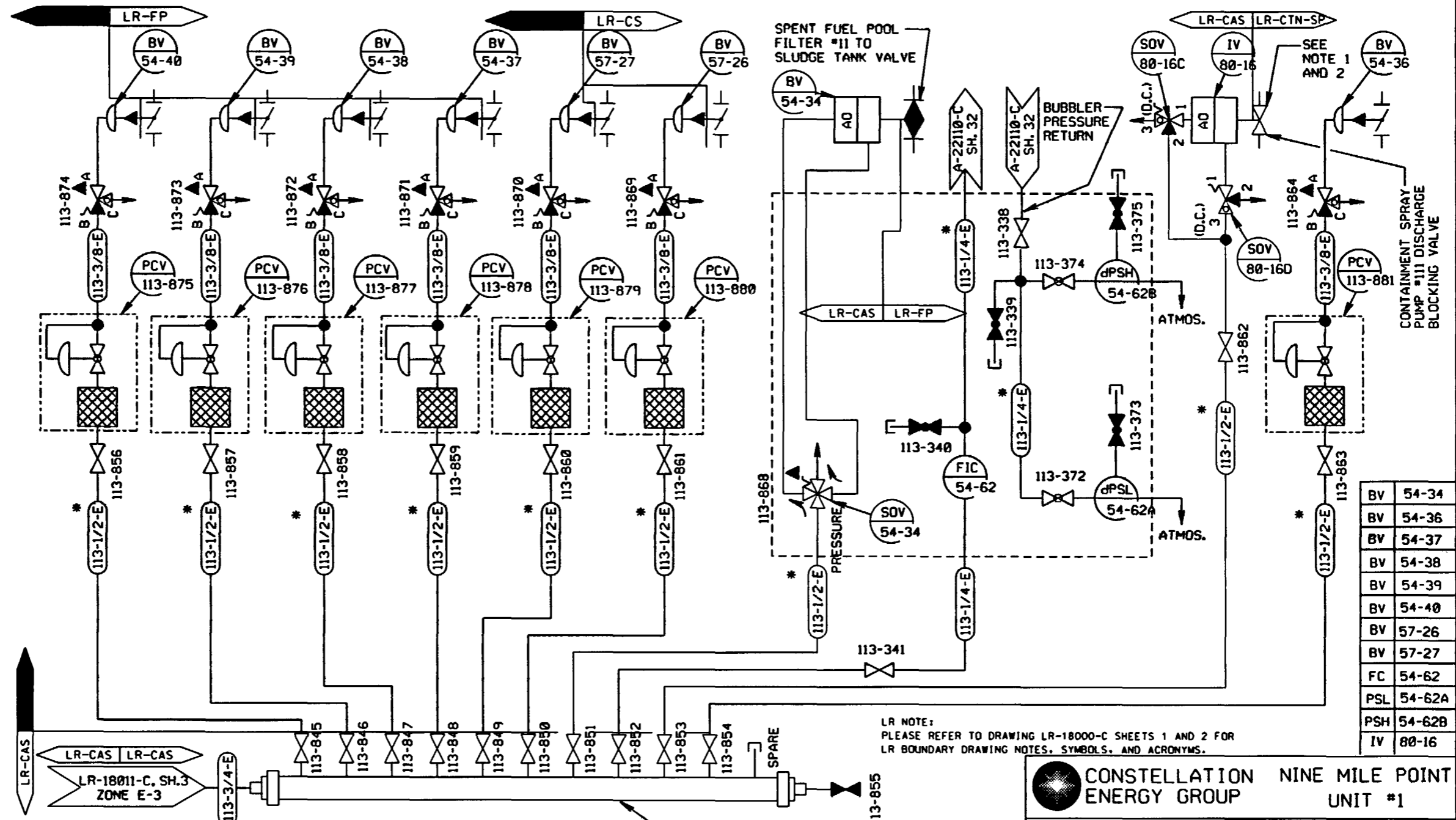
**INSTRUMENT AIR SUPPLY**

**REACTOR BUILDING**

**EL. 237'-0" @ COLUMN 'M-11'**

|          |          |          |            |              |
|----------|----------|----------|------------|--------------|
| DR.      | TR.      | CL.      | DATE       | SCALE        |
|          |          |          |            | NONE         |
| APPROVED | APPROVED | INDEX    |            | 3-N2.1-S18.8 |
|          |          | DWG. NO. | LR-22111-C | SH. 1        |
|          |          | REV.     | 0          |              |

| REV | DATE | BY | REMARKS | CL. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



**NOTES:**

- 1) VALVE FAILS OPEN ON LOSS OF ELCTRIC POWER.
- 2) VALVE FAILS AS IS ON LOSS OF INSTRUMENT AIR.
- 3) ▲ SOLENOID VALVE BY VALVE MANUFACTURER.
- 4) \* CRESENT ARMORED TUBING

**REFERENCE DRAWINGS:**

P & I DRAWINGS C-18008-C AND C-18012-C

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|     |        |
|-----|--------|
| BV  | 54-34  |
| BV  | 54-36  |
| BV  | 54-37  |
| BV  | 54-38  |
| BV  | 54-39  |
| BV  | 54-40  |
| BV  | 57-26  |
| BV  | 57-27  |
| FC  | 54-62  |
| PSL | 54-62A |
| PSH | 54-62B |
| IV  | 80-16  |

**CONSTELLATION NINE MILE POINT ENERGY GROUP**  
UNIT #1

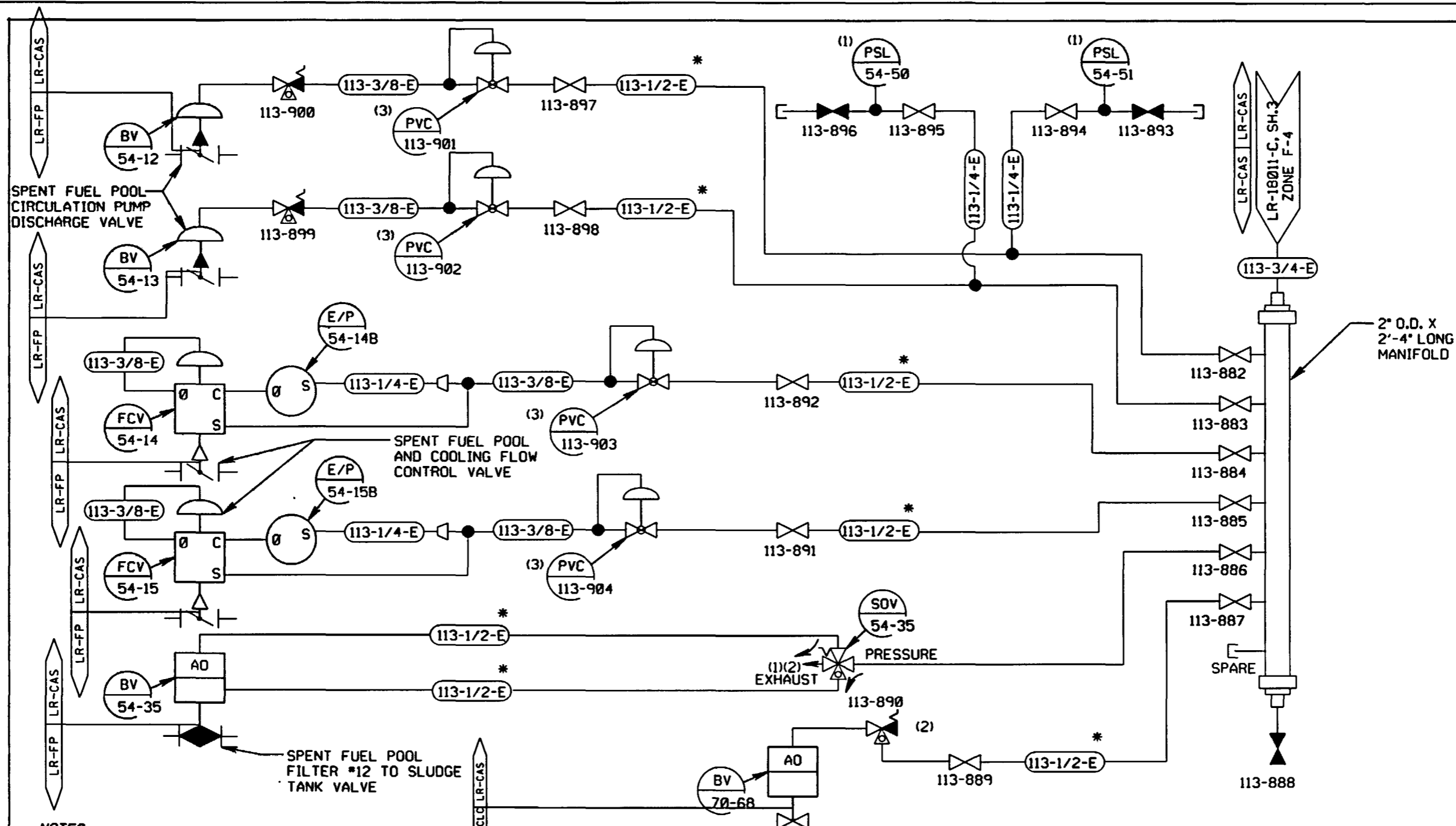
**INSTRUMENT AIR SUPPLY**

**REACTOR BUILDING**

**EL. 281'-0" @ COLUMN "P-9"**

|          |     |          |            |       |              |
|----------|-----|----------|------------|-------|--------------|
| DR.      | TR. | CK.      | DATE       | SCALE | NONE         |
| APPROVED |     | APPROVED |            | INDEX | 3-N2.1-S18.8 |
| APPROVED | CM  | DWG. NO. | LR-22111-0 | SPL   | 5            |
|          |     |          |            | REV.  | 0            |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



|     |       |
|-----|-------|
| BV  | 54-12 |
| BV  | 54-13 |
| BV  | 54-35 |
| BV  | 70-68 |
| FCV | 54-14 |
| FCV | 54-15 |
| PSL | 54-50 |
| PSL | 54-51 |

**NOTES:**

- 1) FIELD TO MOUNT IN A SUITABLE LOCATION NEAR MANIFOLD 5'-0" ± ABOVE FLOOR.
- 2) SOLENOID VALVES BY VALVE MANUFACTURER.
- 3) AIR REDUCERS SET AT BY VALVE MANUFACTURER
- 4) \* CRESCENT ARMORED TUBING

**REFERENCE DRAWINGS:**  
P & I DRAWING C-18008-C

CLOSED LOOP COLLING TO SPENT FUEL POOL HEAT EXCHANGER #12

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

**CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1**

**INSTRUMENT AIR SUPPLY**

**REACTOR BUILDING**

**EL. 281'-0" @ COLUMN 'N-10'**

|          |     |          |            |       |              |
|----------|-----|----------|------------|-------|--------------|
| DR.      | TR. | CK.      | DATE       | SCALE | NONE         |
| APPROVED |     | APPROVED |            | INDEX | 3-N2.1-S18.8 |
| APPROVED |     | DWG. NO. | LR-22111-0 | SPL.  | 6            |
|          |     | REV.     |            | REV.  | 0            |

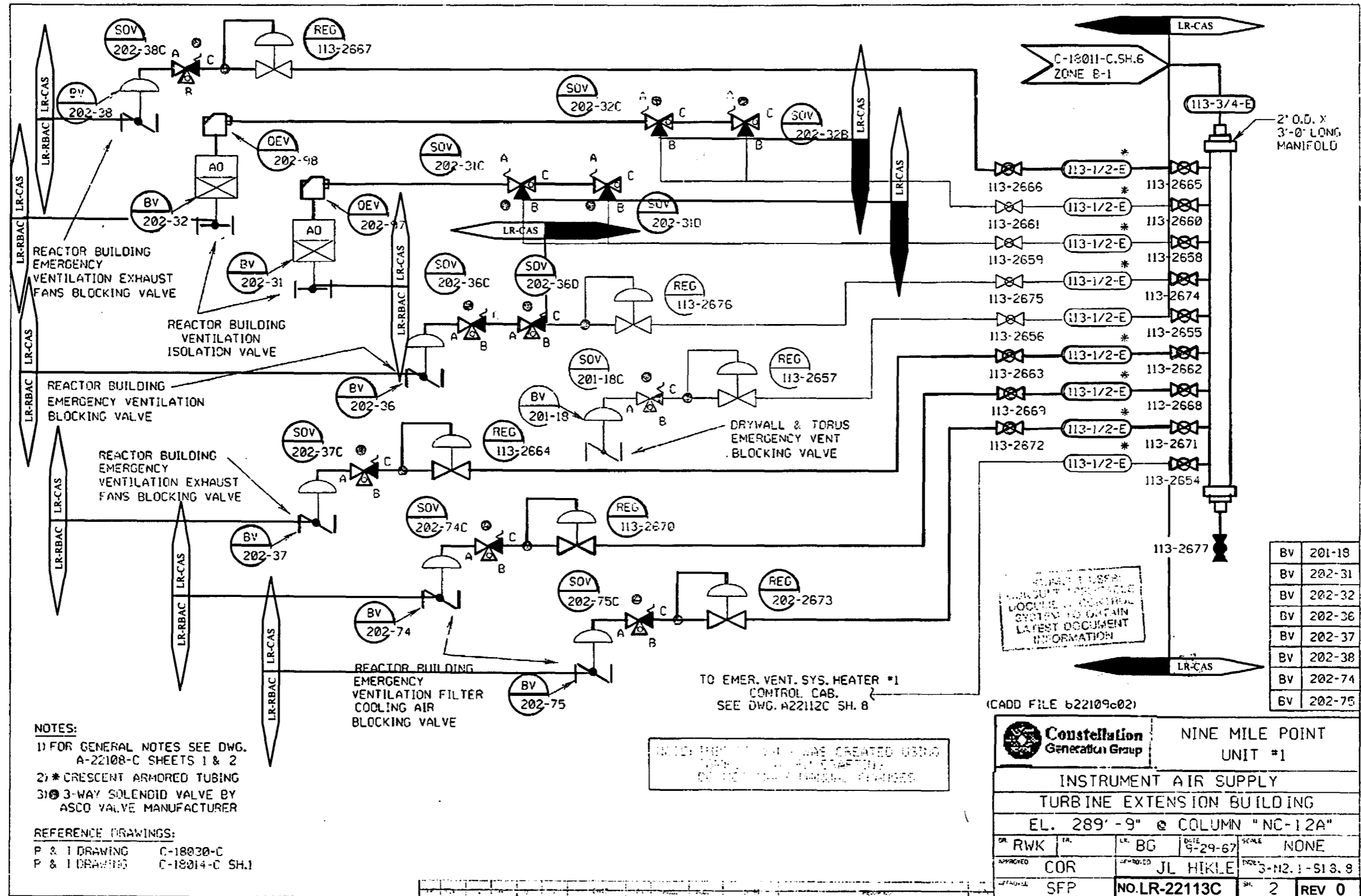
|     |      |    |         |     |      |
|-----|------|----|---------|-----|------|
| REV | DATE | BY | REMARKS | CK. | APP. |
| 0   |      |    |         |     |      |



LR NOTE:

PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR

LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



**NOTES:**  
 1) FOR GENERAL NOTES SEE DWG. A-22108-C SHEETS 1 & 2  
 2) \* CRESCENT ARMORED TUBING  
 3) 3-WAY SOLENOID VALVE BY ASCO VALVE MANUFACTURER

**REFERENCE DRAWINGS:**  
 P & I DRAWING C-18030-C  
 P & I DRAWING C-18014-C SH.1

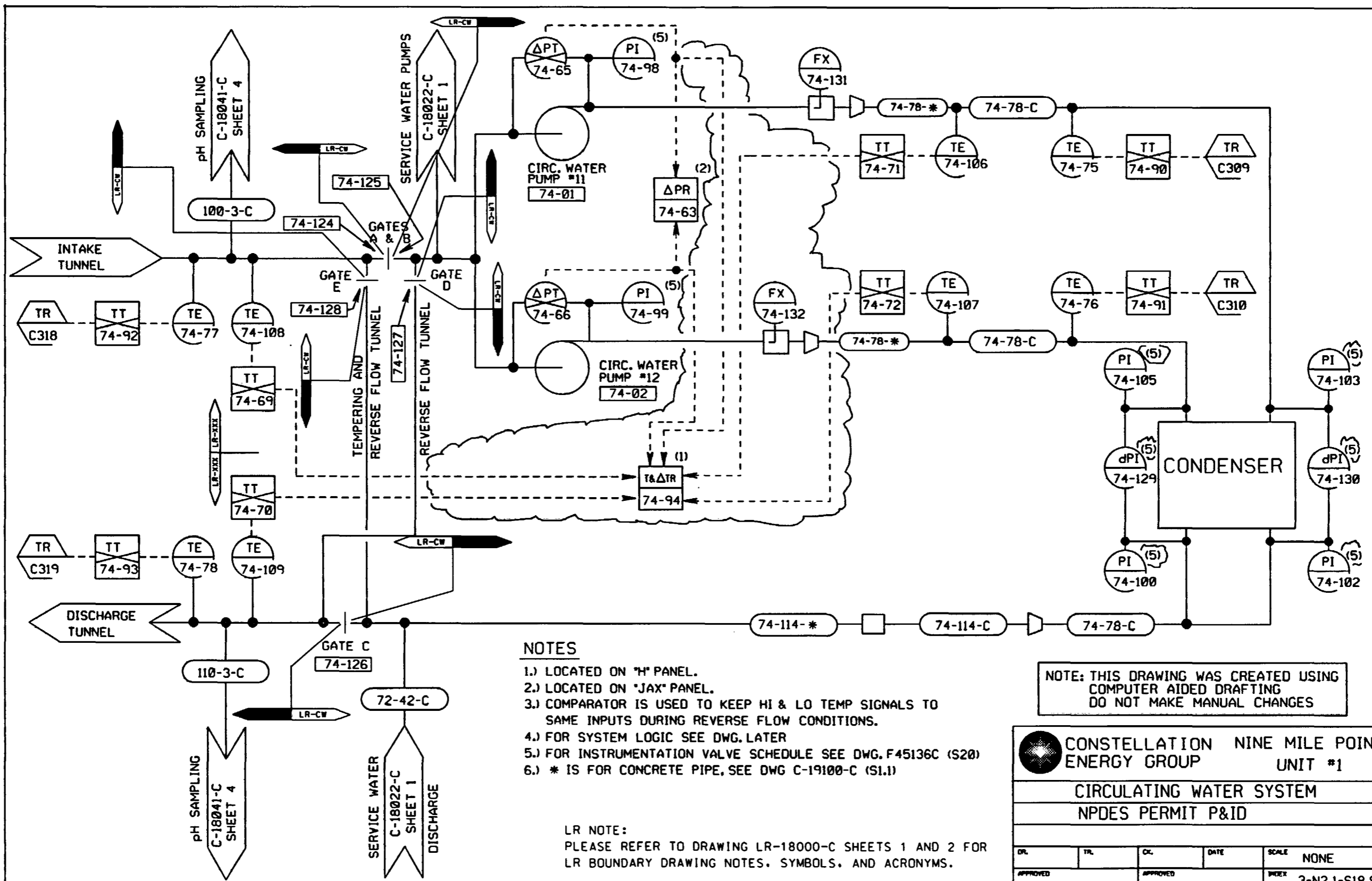
FOR THE USER:  
 PLEASE CONSULT THE  
 INSTRUMENT AIR SUPPLY  
 CONTROL SYSTEM TO OBTAIN  
 LATEST DOCUMENT  
 INFORMATION

|    |        |
|----|--------|
| BV | 201-18 |
| BV | 202-31 |
| BV | 202-32 |
| BV | 202-36 |
| BV | 202-37 |
| BV | 202-38 |
| BV | 202-74 |
| BV | 202-75 |

THIS INSTRUMENT AIR SUPPLY WAS CREATED USING  
 THE INSTRUMENT AIR SUPPLY  
 CONTROL SYSTEM SOFTWARE

(CADD FILE b22109c02)

|                                       |                   |                                |              |
|---------------------------------------|-------------------|--------------------------------|--------------|
| <b>Constellation Generation Group</b> |                   | <b>NINE MILE POINT UNIT #1</b> |              |
| <b>INSTRUMENT AIR SUPPLY</b>          |                   |                                |              |
| <b>TURBINE EXTENSION BUILDING</b>     |                   |                                |              |
| <b>EL. 289'-9" @ COLUMN "NC-12A"</b>  |                   |                                |              |
| DR. RWK                               | TR.               | LE. BG                         | DATE 9-29-67 |
| APPROVED COR                          | APPROVED JL HIKLE | SCALE                          | NONE         |
| APPROVED SFP                          | NO. LR-22113C     | SH. 2                          | REV 0        |



**NOTES**

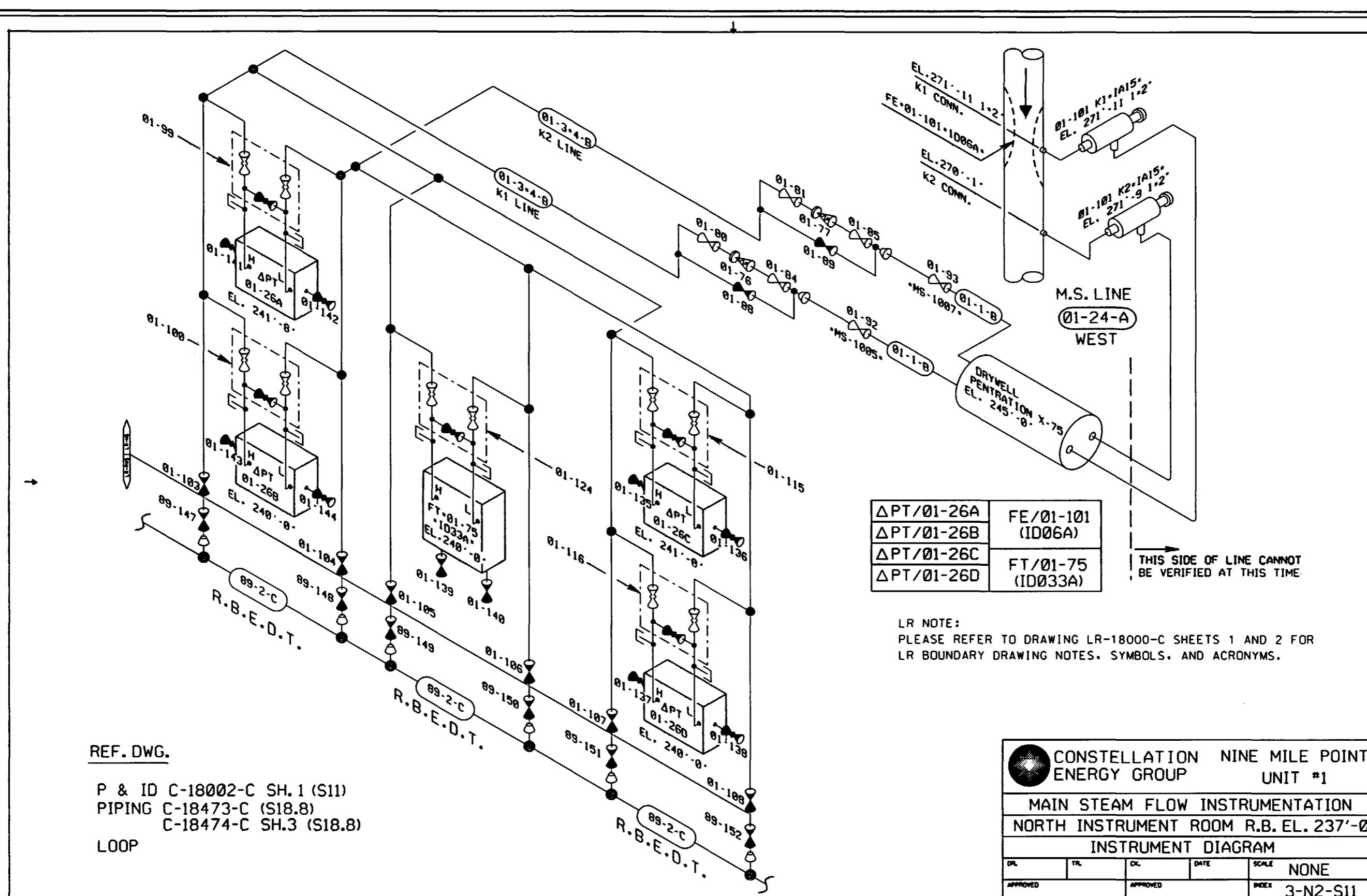
- 1.) LOCATED ON "H" PANEL.
- 2.) LOCATED ON "JAX" PANEL.
- 3.) COMPARATOR IS USED TO KEEP HI & LO TEMP SIGNALS TO SAME INPUTS DURING REVERSE FLOW CONDITIONS.
- 4.) FOR SYSTEM LOGIC SEE DWG. LATER
- 5.) FOR INSTRUMENTATION VALVE SCHEDULE SEE DWG. F45136C (S20)
- 6.) \* IS FOR CONCRETE PIPE, SEE DWG. C-19100-C (S1.1)

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

NOTE: THIS DRAWING WAS CREATED USING COMPUTER AIDED DRAFTING DO NOT MAKE MANUAL CHANGES

|   |  |  |  |
|---|--|--|--|
| <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |  | <b>UNIT #1</b>                               |  |
| <b>CIRCULATING WATER SYSTEM</b>                   |  |  |  |
| <b>NPDES PERMIT P&amp;ID</b>                      |  |  |  |
| <small>DL</small><br><small>APPROVED</small>      | <small>TR</small><br><small>APPROVED</small> | <small>CL</small><br><small>APPROVED</small> | <small>DATE</small><br><small>SCALE</small> NONE |
| <small>INDEX</small> 3-N2.1-S18.9                 |  | <small>DWG. NO.</small> LR-26941-C           |  |
| <small>REV</small>                                |  | <small>REV</small> 0                         |  |

| REV | DATE | BY | REMARKS | CL | APP. |
|-----|------|----|---------|----|------|
|     |      |    |         |    |      |



|            |                   |
|------------|-------------------|
| ΔPT/01-26A | FE/01-101 (ID06A) |
| ΔPT/01-26B |                   |
| ΔPT/01-26C | FT/01-75 (ID033A) |
| ΔPT/01-26D |                   |

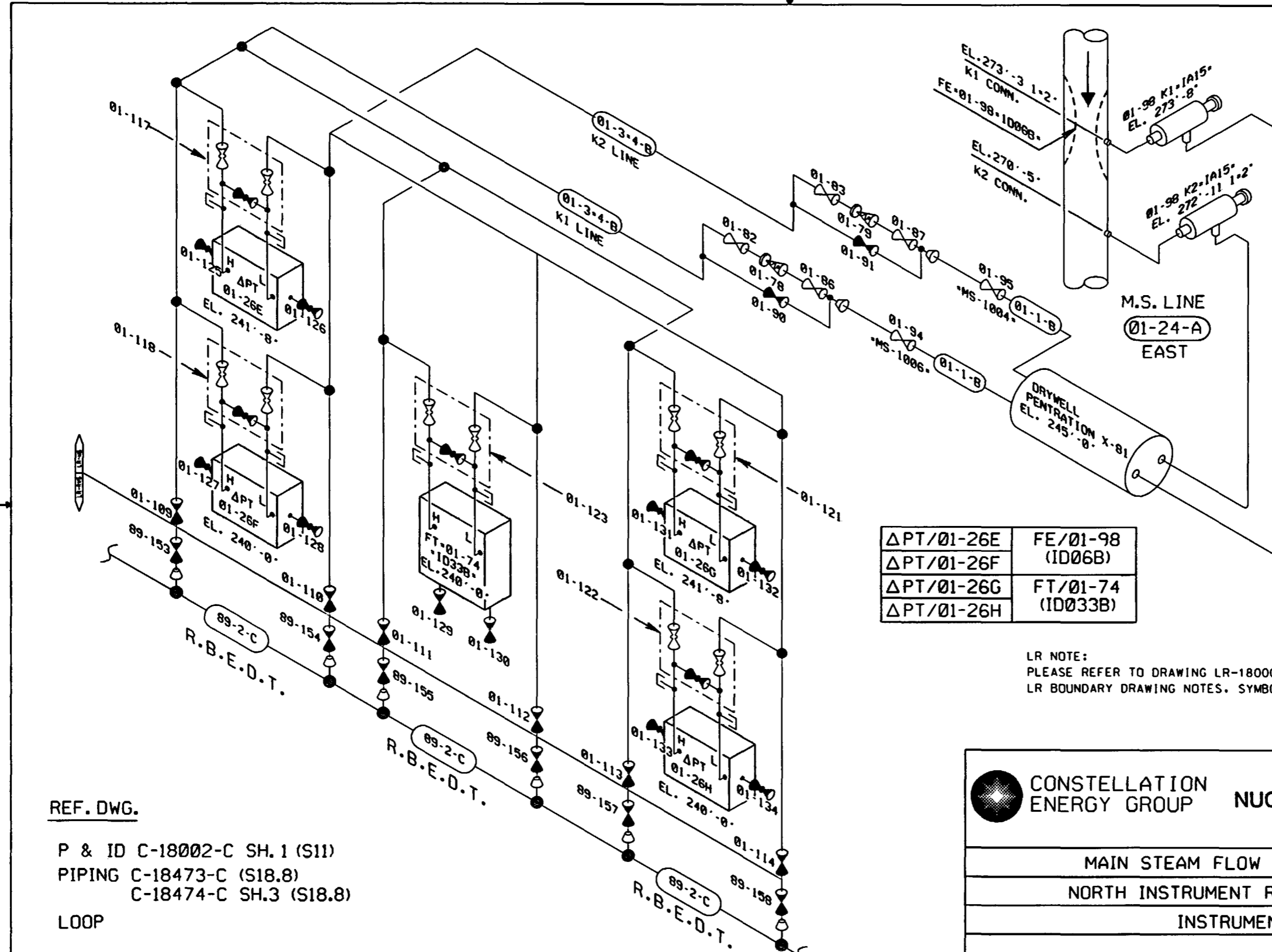
THIS SIDE OF LINE CANNOT BE VERIFIED AT THIS TIME

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REF. DWG.  
P & ID C-18002-C SH.1 (S11)  
PIPING C-18473-C (S18.8)  
C-18474-C SH.3 (S18.8)  
LOOP

|  |          |          |            |
|--|----------|----------|------------|
| CONSTELLATION NINE MILE POINT ENERGY GROUP |          | UNIT #1  |            |
| MAIN STEAM FLOW INSTRUMENTATION            |          |          |            |
| NORTH INSTRUMENT ROOM R.B. EL. 237'-0"     |          |          |            |
| INSTRUMENT DIAGRAM                         |          |          |            |
| DR.  | TR.      | CK.      | DATE       |
| APPROVED                                   | APPROVED | APPROVED | SCALE NONE |
| INDEX 3-N2-S11                             |          | REV. 0   |            |
| DWS. NO. LR-69002-C                        |          | DR. 1    | REV. 0     |


| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



|            |                   |
|------------|-------------------|
| ΔPT/01-26E | FE/01-98 (ID06B)  |
| ΔPT/01-26F | FE/01-98 (ID06B)  |
| ΔPT/01-26G | FT/01-74 (ID033B) |
| ΔPT/01-26H | FT/01-74 (ID033B) |

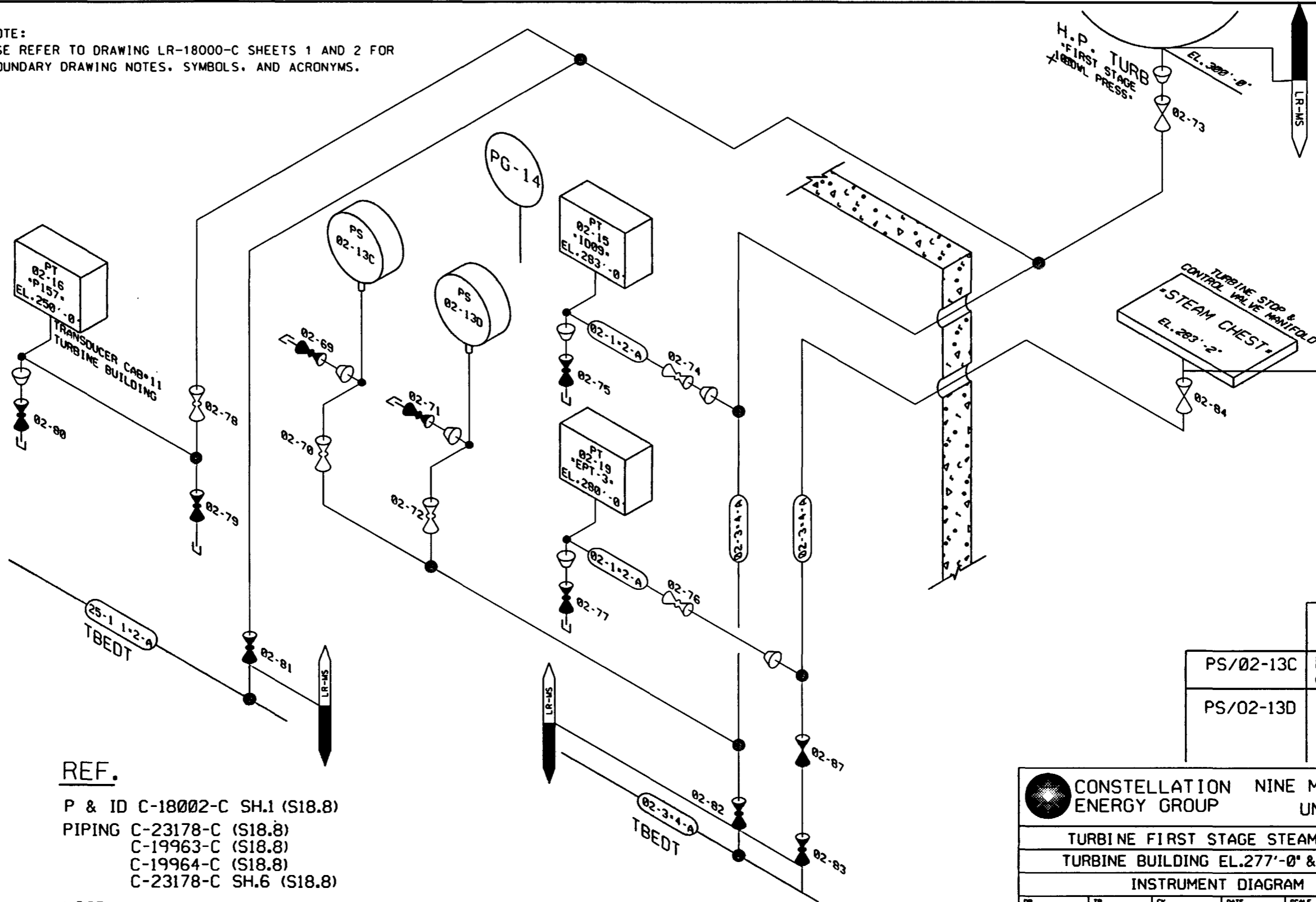
LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REF. DWG.  
P & ID C-18002-C SH.1 (S11)  
PIPING C-18473-C (S18.8)  
C-18474-C SH.3 (S18.8)  
LOOP

|  |   |       |            |
|--|---|-------|------------|
|  CONSTELLATION ENERGY GROUP | <b>NINE MILE POINT NUCLEAR STATION - UNIT 1</b><br>SCRIBA, N.Y. |       |            |
|  | MAIN STEAM FLOW INSTRUMENTATION                                 |       |            |
|  | NORTH INSTRUMENT ROOM R.B. EL. 237'-0"                          |       |            |
|  | INSTRUMENT DIAGRAM  |       |            |
| SCALE  | DRAWING NO<br>LR-69002-C  | INDEX | SHEET<br>2 |

| REV | DATE | BY | DESCRIPTION OF REVISION | CK | APP | MF |
|-----|------|----|-------------------------|----|-----|----|
|     |      |    |                         |    |     |    |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REF.  
P & ID C-18002-C SH.1 (S18.8)  
PIPING C-23178-C (S18.8)  
C-19963-C (S18.8)  
C-19964-C (S18.8)  
C-23178-C SH.6 (S18.8)  
LOOP

|                               |
|-------------------------------|
| PT/02-15<br>(ID09)            |
| PS/02-13C PT/02-16<br>(P157)  |
| PS/02-13D PT/02-19<br>(EPT-3) |

CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1

TURBINE FIRST STAGE STEAM PRESS  
TURBINE BUILDING EL.277'-0" & 250'-0"

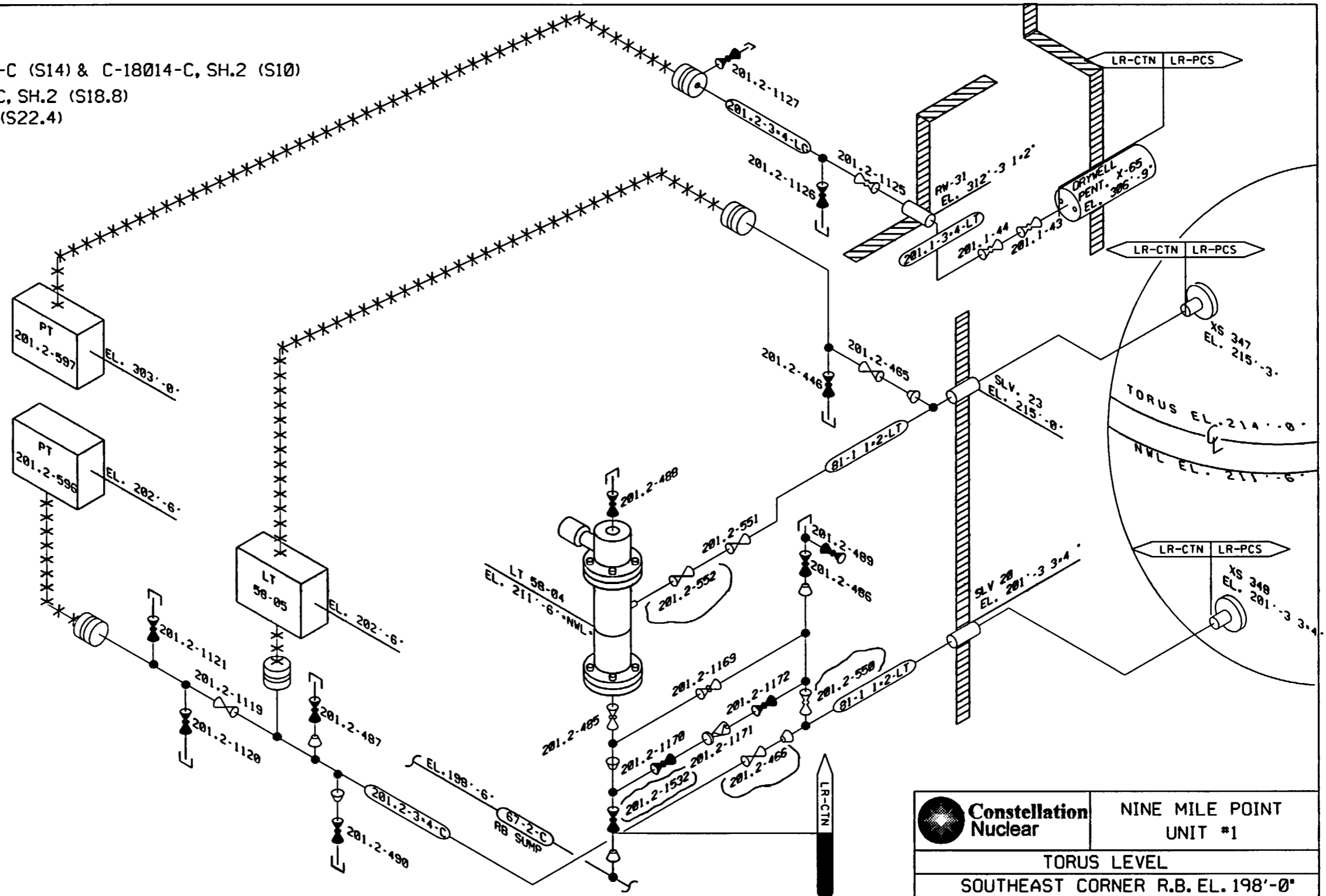
INSTRUMENT DIAGRAM

|          |                     |          |        |       |
|----------|---------------------|----------|--------|-------|
| DR.      | TR.                 | CK.      | DATE   | SCALE |
| APPROVED | APPROVED            | APPROVED | INDEX  |       |
| APPROVED | DWG. NO. LR-69002-C | SH. 3    | REV. 0 |       |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |

**REFERENCE:**

P & ID C-18007-C (S14) & C-18014-C, SH.2 (S10)  
 PIPING C-18178-C, SH.2 (S18.8)  
 C-18350-C, SH.2 (S22.4)

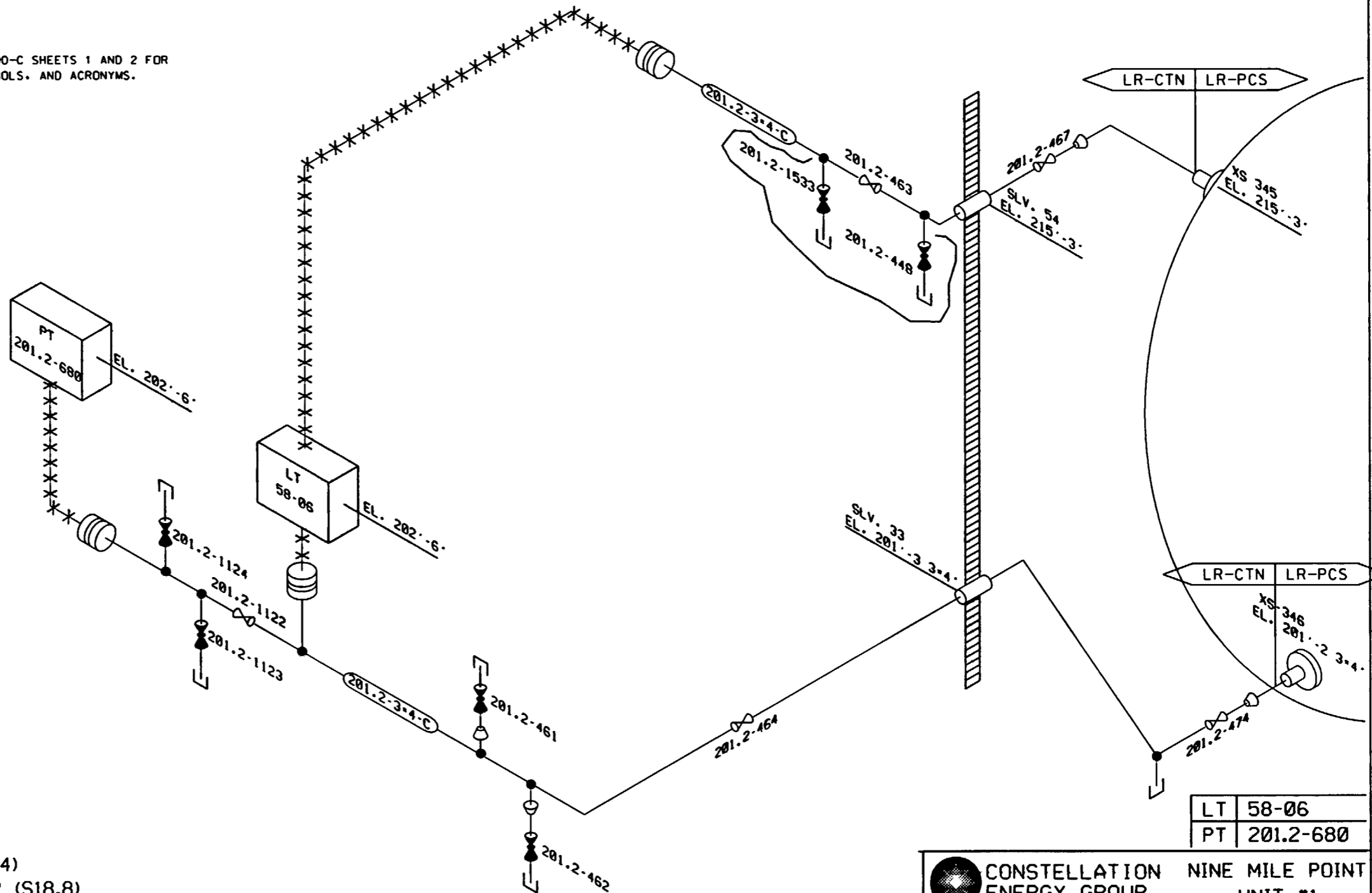


|    |           |
|----|-----------|
| LT | 58-04     |
| LT | 58-05     |
| PT | 201.2-596 |
| PT | 201.2-597 |

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|                                   |                     |                            |            |
|-----------------------------------|---------------------|----------------------------|------------|
|                                   |                     | NINE MILE POINT<br>UNIT #1 |            |
| TORUS LEVEL                       |                     |                            |            |
| SOUTHEAST CORNER R.B. EL. 198'-0" |                     |                            |            |
| INSTRUMENT DIAGRAM                |                     |                            |            |
| DR.                               | TR.                 | CK.                        | DATE       |
| APPROVED                          | APPROVED            | APPROVED                   | SCALE NONE |
| APPROVED                          | DWG. NO. LR-69007-C | DL. 1                      | REL. 0     |

LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



REFERENCE:  
P & ID C-18007-C (S14)  
PIPING C-18178-C, SH.2 (S18.8)

|    |           |
|----|-----------|
| LT | 58-06     |
| PT | 201.2-680 |

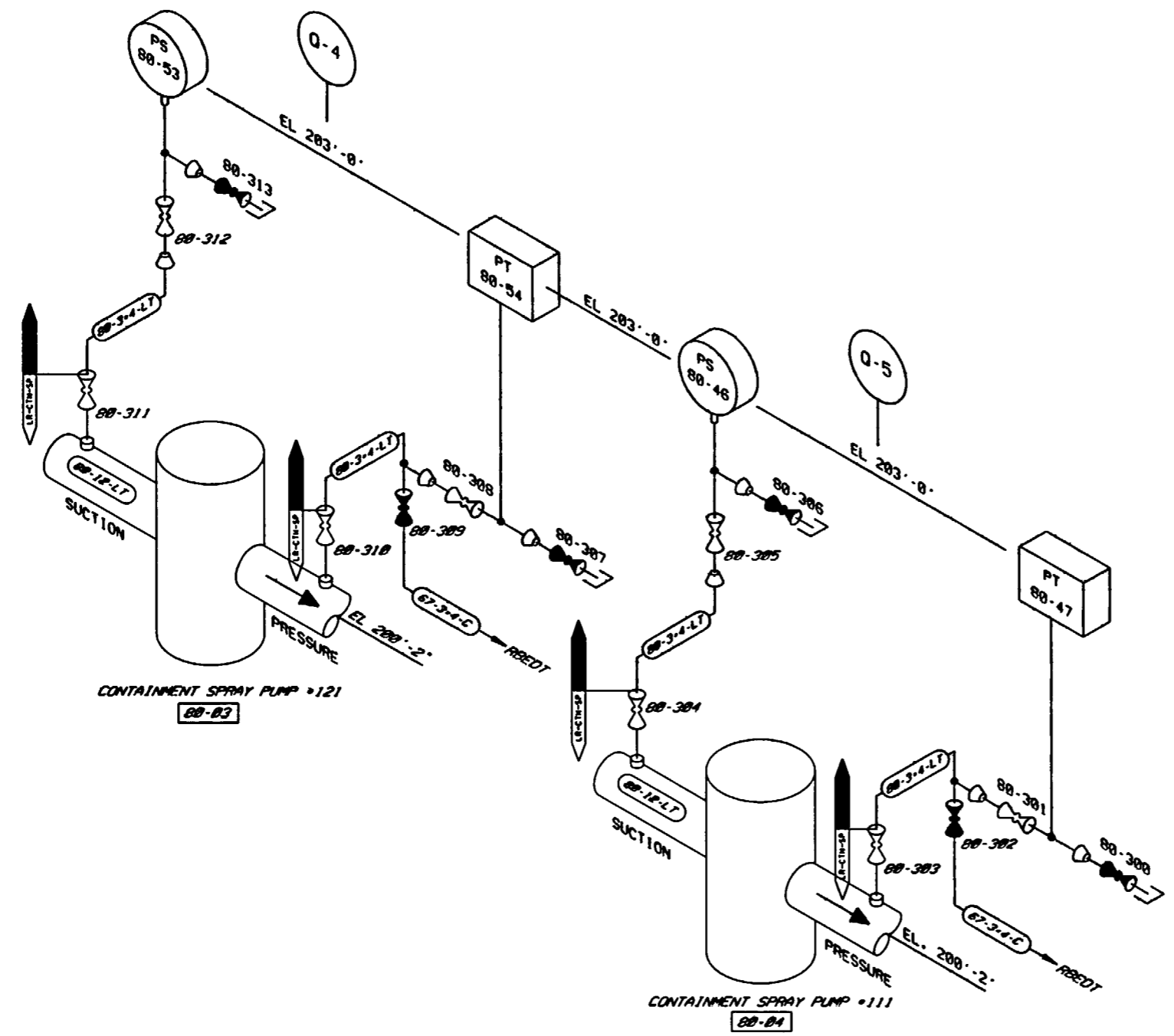
 **CONSTELLATION NINE MILE POINT ENERGY GROUP**  
UNIT #1

TORUS LEVEL  
NORTHEAST CORNER R.B. EL. 198'-0"  
INSTRUMENT DIAGRAM

|          |          |          |            |       |            |
|----------|----------|----------|------------|-------|------------|
| DL       | TR       | CL       | DATE       | SCALE | NONE       |
| APPROVED | APPROVED | APPROVED | APPROVED   | INDEX | 3-N2.1-S14 |
| APPROVED | APPROVED | DWG. NO. | LR-69007-C | SH.   | 2          |
| APPROVED | APPROVED | REV.     | 0          |       |            |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |

REFERENCE:  
 P & ID C-18012-C, SH.2 (S14)  
 PIPING C-18180-C (S18.8)



|    |       |
|----|-------|
| PS | 80-46 |
| PS | 80-53 |
| PT | 80-47 |
| PT | 80-54 |

|  |    |     |                     |       |        |
|--|----|-----|---------------------|-------|--------|
| CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1 |    |     |                     |       |        |
| CONTAINMENT PUMPS #111 & #121                      |    |     |                     |       |        |
| NORTHWEST CORNER REACTOR BUILD. EL.198'-0"         |    |     |                     |       |        |
| INSTRUMENT DIAGRAM                                 |    |     |                     |       |        |
| DPL  | TR | CHK | DATE                | SCALE | NONE   |
| APPROVED   |    |     | APPROVED            |       |        |
|  |    |     | INDEX 3-N2.1-S14    |       |        |
| APPROVED   |    |     | DWG. NO. LR-69012-C |       | REV. 0 |
| SPL 4  |    |     |                     |       |        |

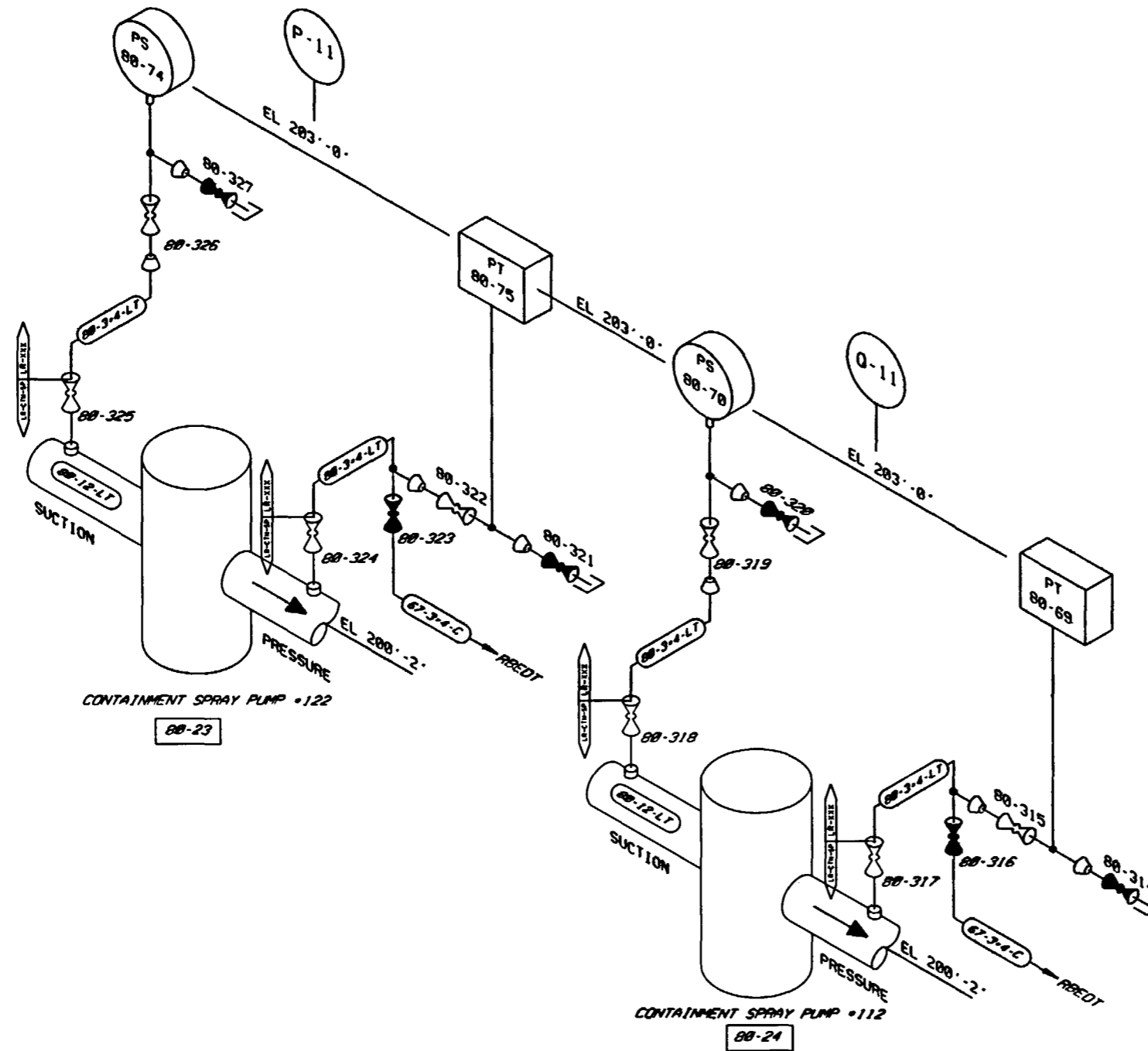
LR NOTE:  
 PLEASE REFER TO DRAWING LA-10000-C SHEETS 1 AND 2 FOR  
 LA BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

| REV | DATE | BY | REMARKS | CL | APP. |
|-----|------|----|---------|----|------|
|     |      |    |         |    |      |



REFERENCE:

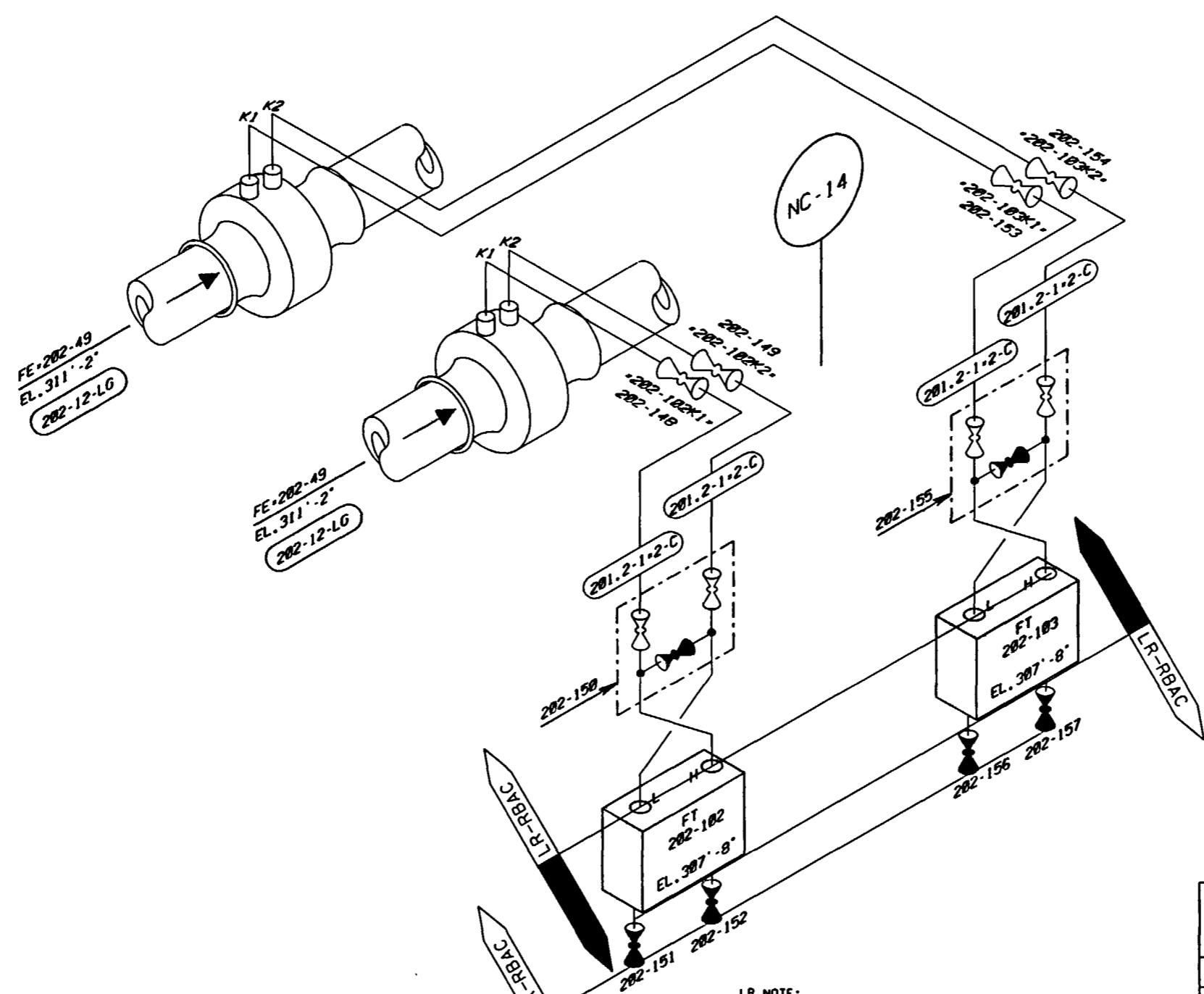
P & ID C-18012-C, SH.2 (S14)  
 PIPING C-18180-C (S18.8)



LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|    |       |
|----|-------|
| PS | 80-70 |
| PS | 80-74 |
| PT | 80-69 |
| PT | 80-75 |

|   |      |     |          |           |                  |
|---|------|-----|----------|-----------|------------------|
| <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b><br>UNIT #1                    |      |     |          |           |                  |
| CONTAINMENT SPRAY PUMPS #112 & #122<br>NORTHEAST CORNER REACTOR BLD. EL.198'-0" |      |     |          |           |                  |
| INSTRUMENT DIAGRAM  |      |     |          |           |                  |
| DR.   | TR.  | CL. | DATE     | SCALE     | NONE             |
| APPROVED  |      |     | APPROVED |           | INDEX 3-N2.1-S14 |
| REV   | DATE | BY  | REMARKS  | CHK. APP. | APPROVED         |
|   |      |     |          | ENCL. NO. | LR-69012-C       |
|   |      |     |          | SPL       | 5                |
|   |      |     |          | REV.      | 0                |



REFERENCE:  
 P & ID C-18013-C (S10)  
 PIPING C-23168-C (S18.8)

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

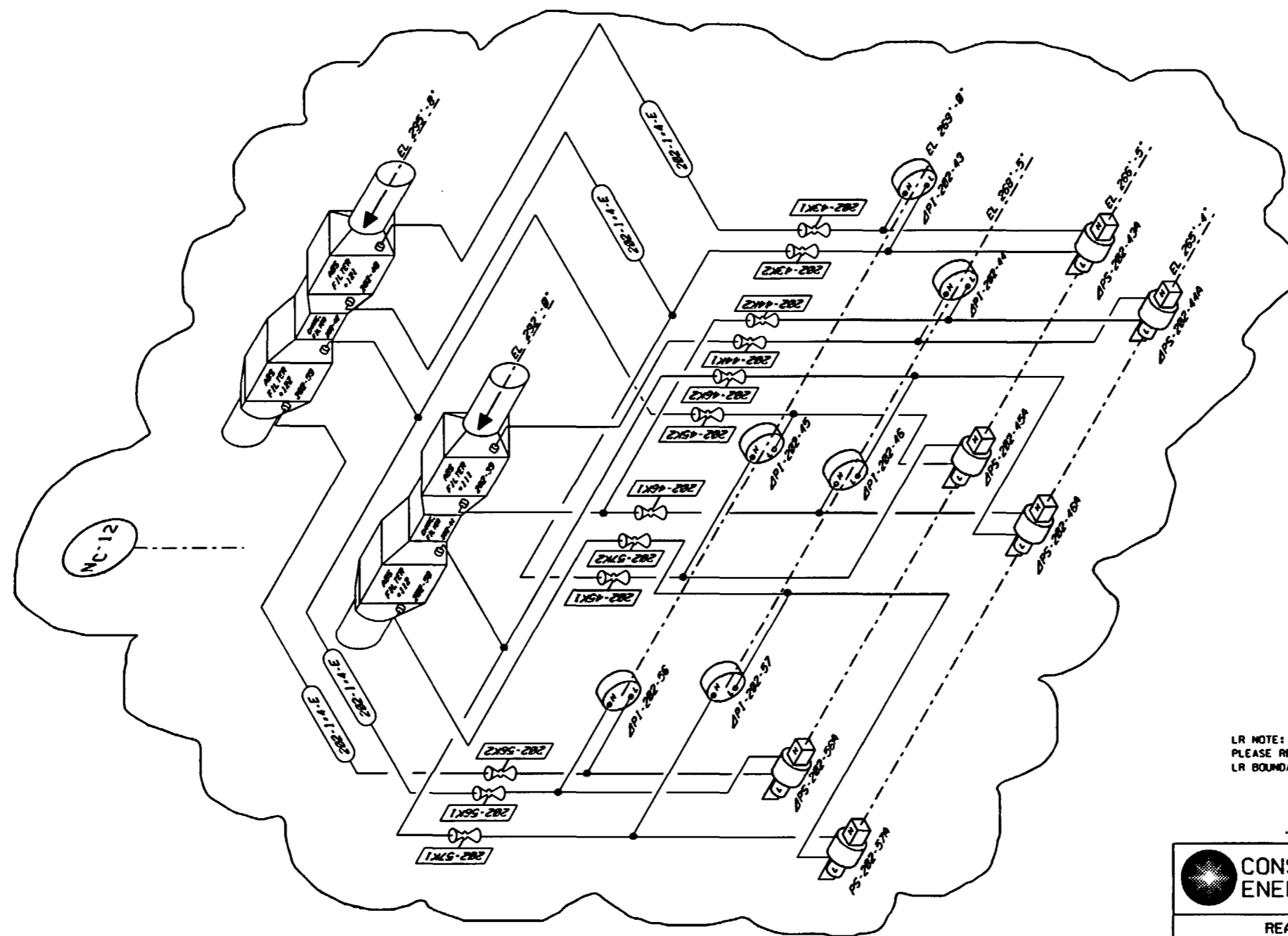
|    |         |
|----|---------|
| FE | 202-92  |
| FT | 202-103 |
| FE | 202-49  |
| FT | 202-102 |

CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1


REACTOR BLDG. EMERGENCY VENT FLOW TURBINE BUILDING EL. 302'-8"

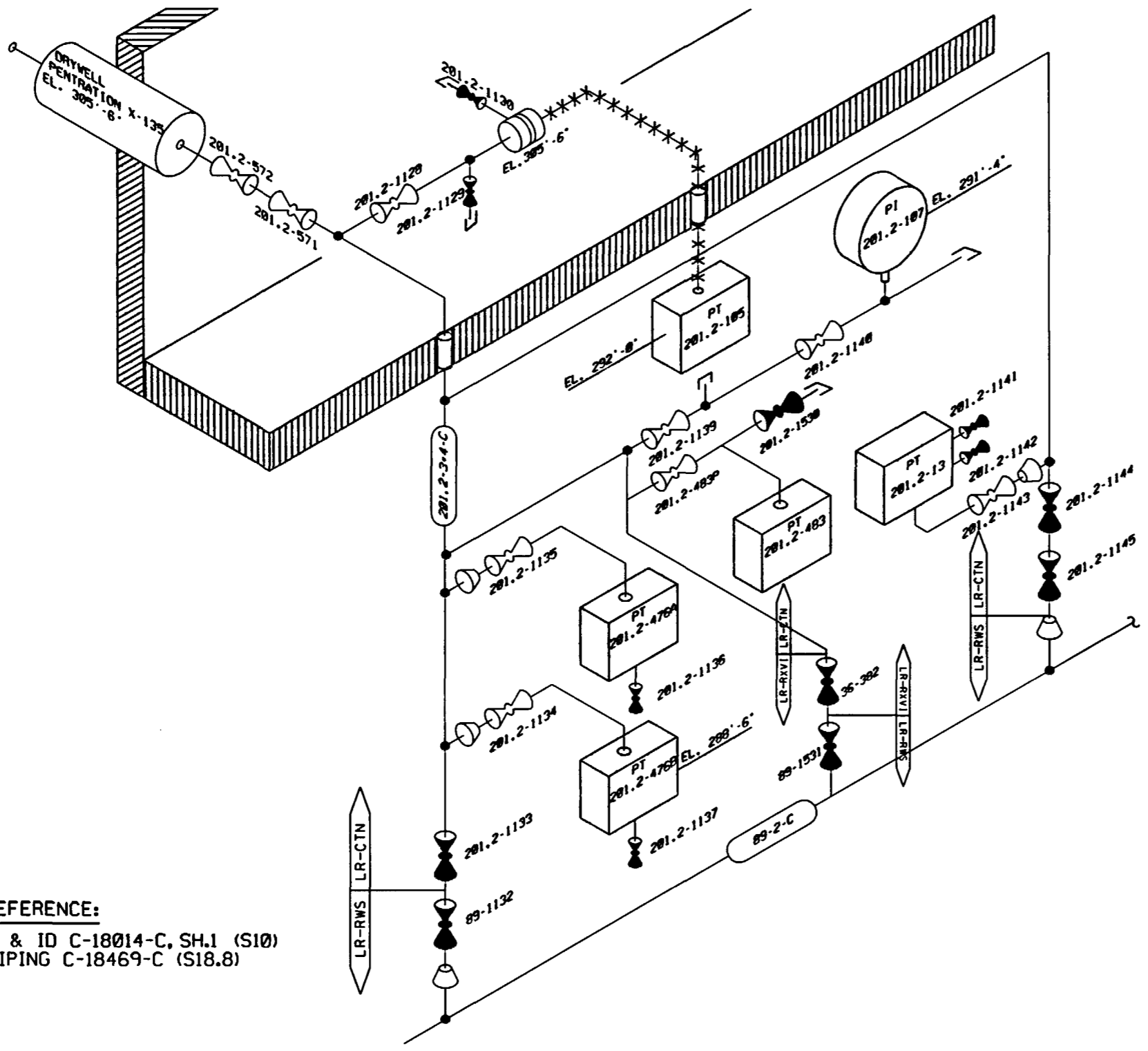
INSTRUMENT DIAGRAM

|          |      |          |         |       |      |          |            |     |      |
|----------|------|----------|---------|-------|------|----------|------------|-----|------|
| DR.      | TR.  | CK.      | DATE    | SCALE |      |          |            |     |      |
| APPROVED |      | APPROVED |         | NONE  |      |          |            |     |      |
| APPROVED |      |          | INDEX   |       |      |          |            |     |      |
| REV      | DATE | BY       | REMARKS | CK.   | APP. | APPROVED | ENGL. NO.  | DL. | REV. |
| 0        |      |          |         |       |      |          | LR-69013-C | 1   | 0    |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|   |      |   |         |                     |
|---|------|---|---------|---------------------|
|  |      | CONSTELLATION NINE MILE POINT<br>ENERGY GROUP UNIT #1 |         |                     |
| REACTOR BLDG EMERGENCY VENT. SYSTEM   |      |   |         |                     |
| TURBINE BLDG EL 261'-0"   |      |   |         |                     |
| INSTRUMENT DIAGRAM  |      |   |         |                     |
| DR  | TR   | CL  | DATE    | SCALE               |
| APPROVED  |      | APPROVED  |         | INDEX               |
| REV   | DATE | BY  | REMARKS | CL APP. APPROVED    |
|   |      |   |         | DWG. NO. LR-69013-C |
|   |      |   |         | DL 2 REV 0          |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REFERENCE:  
P & ID C-18014-C, SH.1 (S10)  
PIPING C-18469-C (S18.8)

|    |            |
|----|------------|
| PI | 201.2-107  |
| PT | 201.2-105  |
| PT | 201.2-13   |
| PT | 201.2-476A |
| PT | 201.2-476B |
| PT | 201.2-483  |

**CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1**

**DRYWELL PRESS & LVL**

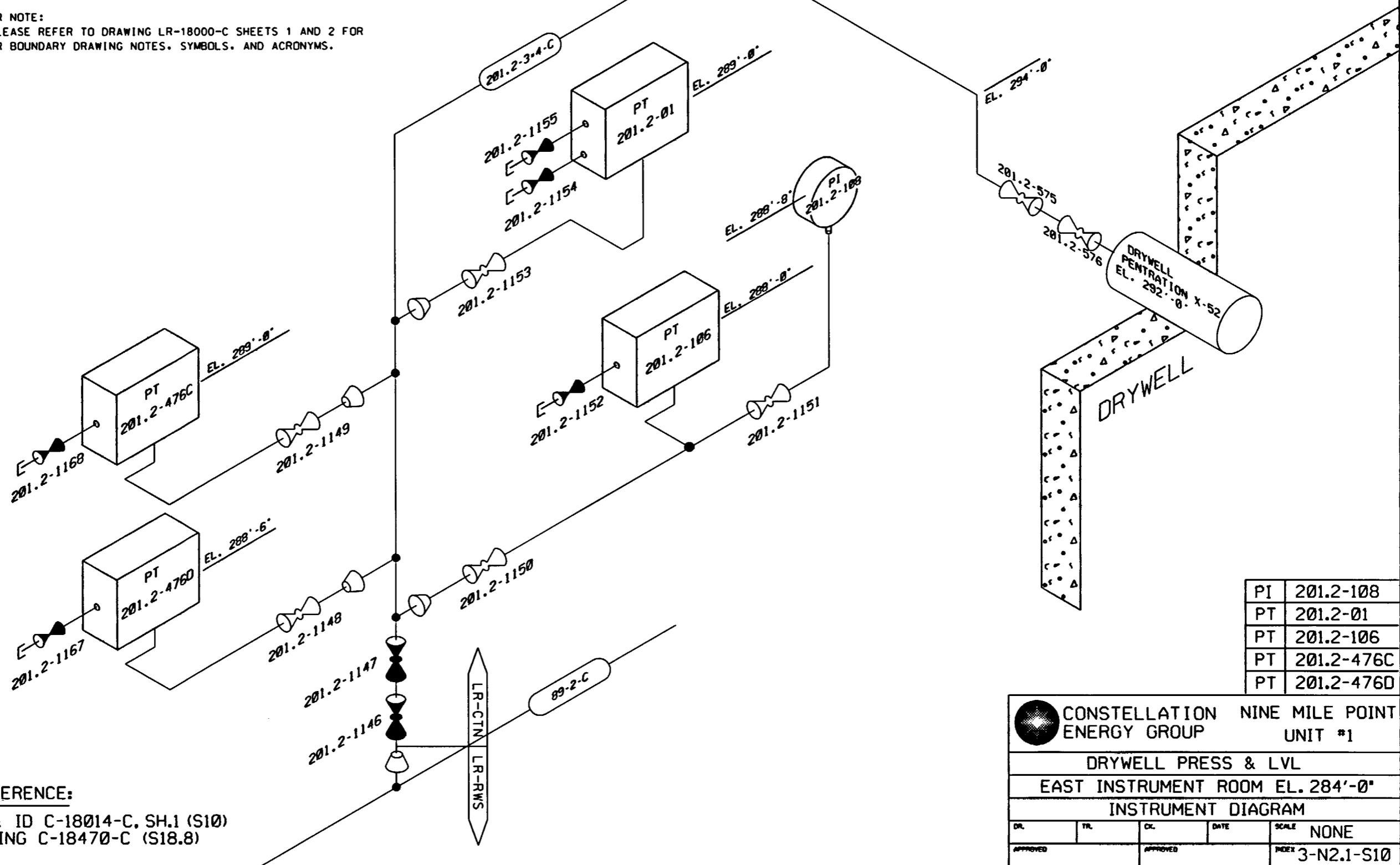
**WEST INSTRUMENT ROOM EL. 284'-0"**

**INSTRUMENT DIAGRAM**

|          |          |          |            |       |      |
|----------|----------|----------|------------|-------|------|
| DR.      | TR.      | CK.      | DATE       | SCALE | NONE |
| APPROVED | APPROVED | INDEX    |            |       |      |
| APPROVED | APPROVED | DWG. NO. | LR-69014-C | SH.   | 1    |
|          |          | REV.     |            |       | 0    |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.



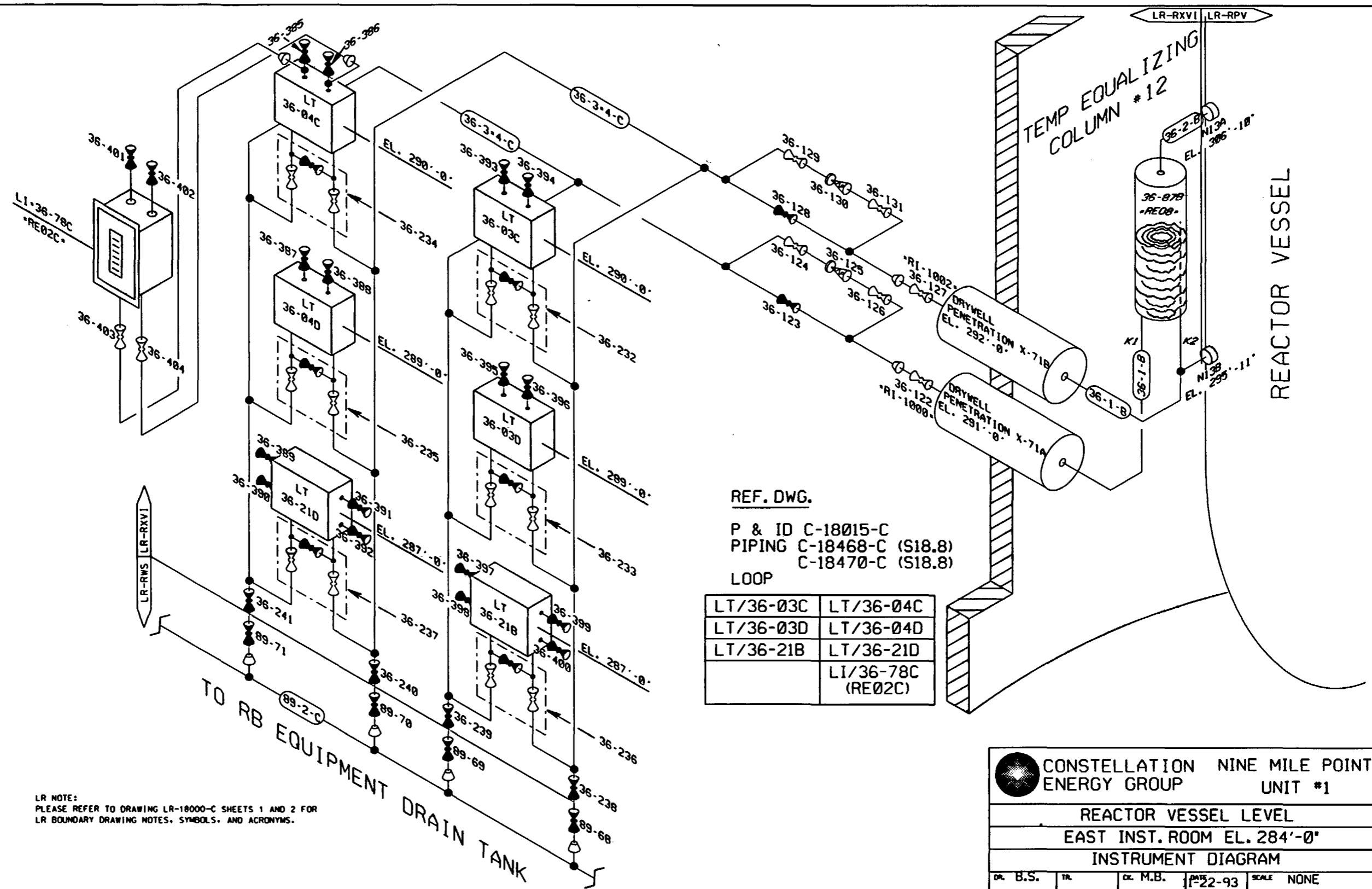
REFERENCE:

P & ID C-18014-C, SH.1 (S10)  
PIPING C-18470-C (S18.8)

|    |            |
|----|------------|
| PI | 201.2-108  |
| PT | 201.2-01   |
| PT | 201.2-106  |
| PT | 201.2-476C |
| PT | 201.2-476D |

|   |          |   |            |                |            |
|---|----------|---|------------|----------------|------------|
|  |          | <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |            | <b>UNIT #1</b> |            |
| <b>DRYWELL PRESS &amp; LVL</b>  |          |   |            |                |            |
| <b>EAST INSTRUMENT ROOM EL. 284'-0"</b>   |          |   |            |                |            |
| <b>INSTRUMENT DIAGRAM</b>   |          |   |            |                |            |
| DR.   | TR.      | CK.   | DATE       | SCALE          | NONE       |
| APPROVED  | APPROVED | APPROVED  |            | INDEX          | 3-N2.1-S10 |
| APPROVED  | APPROVED | DWG. NO.  | LR-69014-C | SIL            | 2          |
| APPROVED  | APPROVED | REV.  | 0          |                |            |

| REV | DATE | BY | REMARKS | CK. | APP. |
|-----|------|----|---------|-----|------|
|     |      |    |         |     |      |



LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

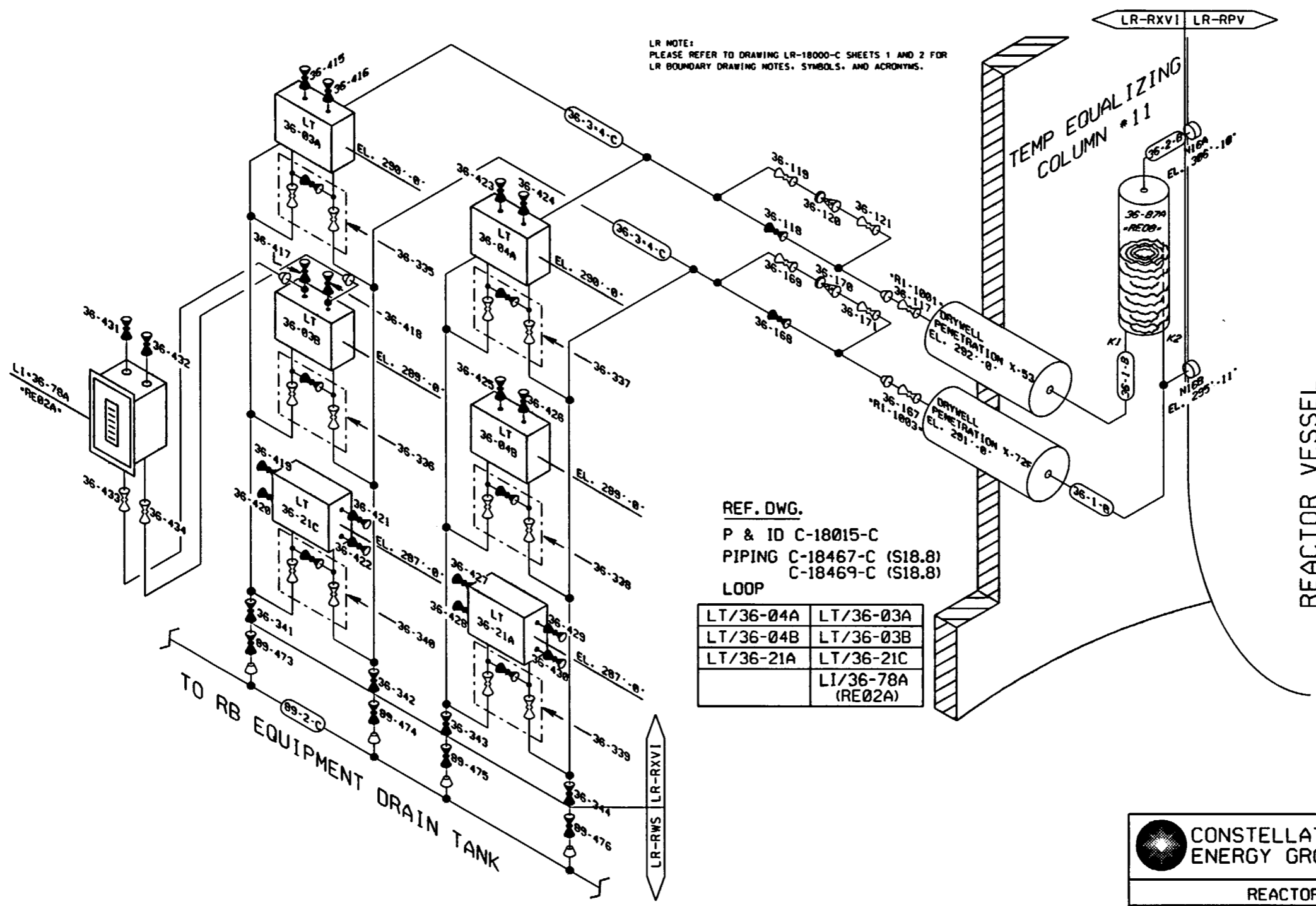
REF. DWG.  
P & ID C-18015-C  
PIPING C-18468-C (S18.8)  
C-18470-C (S18.8)  
LOOP

|           |                      |
|-----------|----------------------|
| LT/36-03C | LT/36-04C            |
| LT/36-03D | LT/36-04D            |
| LT/36-21B | LT/36-21D            |
|           | LI/36-78C<br>(RE02C) |

|  |     |          |               |
|--|-----|----------|---------------|
| CONSTELLATION NINE MILE POINT ENERGY GROUP |     | UNIT #1  |               |
| REACTOR VESSEL LEVEL                       |     |          |               |
| EAST INST. ROOM EL. 284'-0"                |     |          |               |
| INSTRUMENT DIAGRAM                         |     |          |               |
| DR. B.S.                                   | TR. | CL. M.B. | DATE 12-22-93 |
| APPROVED                                   |     | APPROVED |               |
| Dwg. No. LR-69015-C                        |     | Rev. 1   | REV. 0        |

|   |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|
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|---|--|--|--|--|--|--|--|--|--|--|--|

| REV | DATE | BY | REMARKS | CL. APP. |
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|     |      |    |         |          |

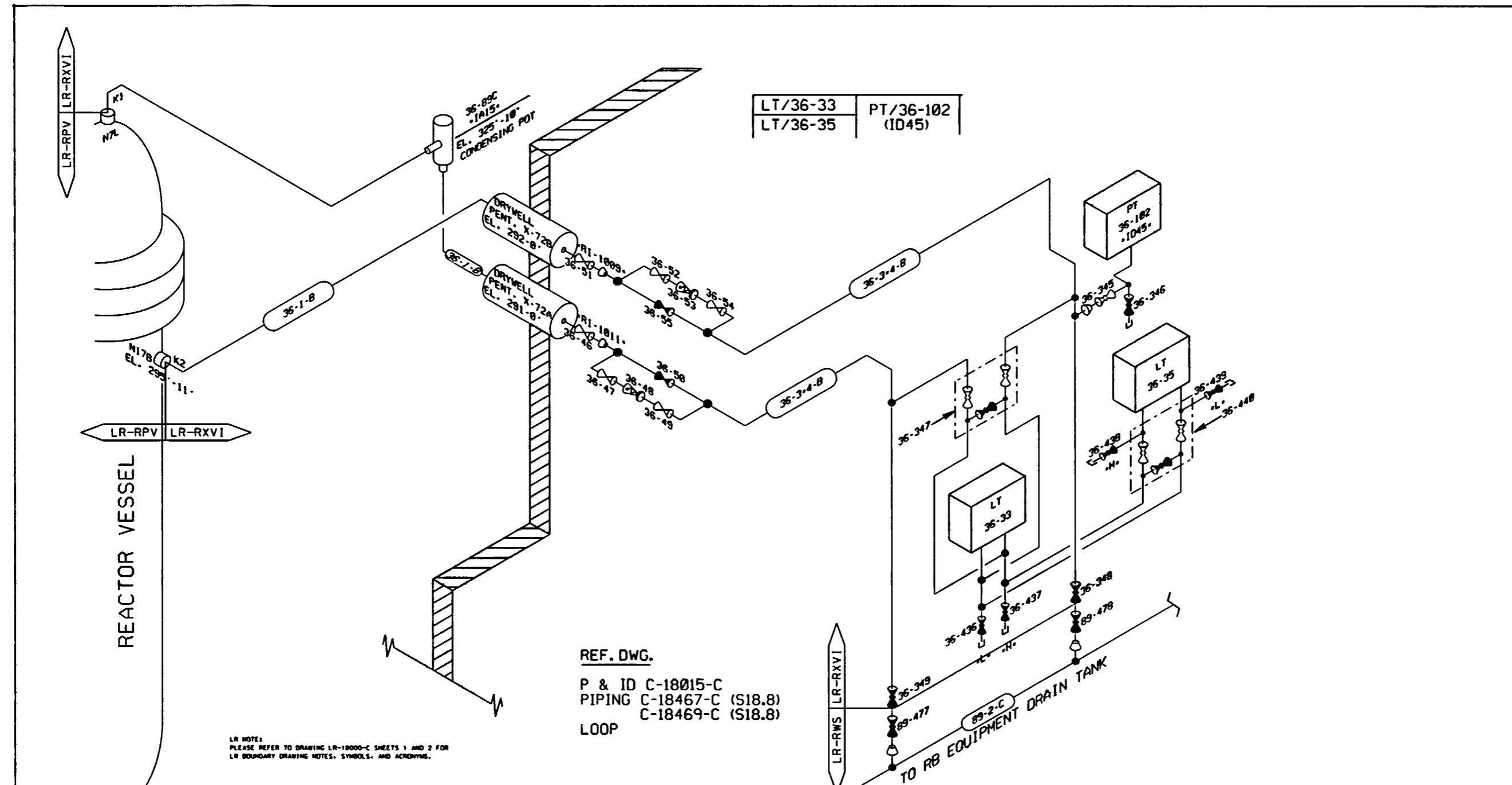


LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REF. DWG.  
P & ID C-18015-C  
PIPING C-18467-C (S18.8)  
C-18469-C (S18.8)  
LOOP

|                      |           |
|----------------------|-----------|
| LT/36-04A            | LT/36-03A |
| LT/36-04B            | LT/36-03B |
| LT/36-21A            | LT/36-21C |
| LI/36-78A<br>(RE02A) |           |

|   |     |          |            |       |      |
|---|-----|----------|------------|-------|------|
| CONSTELLATION NINE MILE POINT<br>ENERGY GROUP UNIT #1 |     |          |            |       |      |
| REACTOR VESSEL LEVEL                                  |     |          |            |       |      |
| WEST INST. ROOM RB EL. 284'-0"                        |     |          |            |       |      |
| INSTRUMENT DIAGRAM                                    |     |          |            |       |      |
| DR.   | TR. | CL.      | DATE       | SCALE | NONE |
| APPROVED  |     | APPROVED |            | INDEX |      |
| APPROVED  |     | DWG. NO. | LR-69015-C | SHEET | 2    |
|   |     | REV.     |            |       | 0    |



LT/36-33    PT/36-102  
 LT/36-35    (ID45)

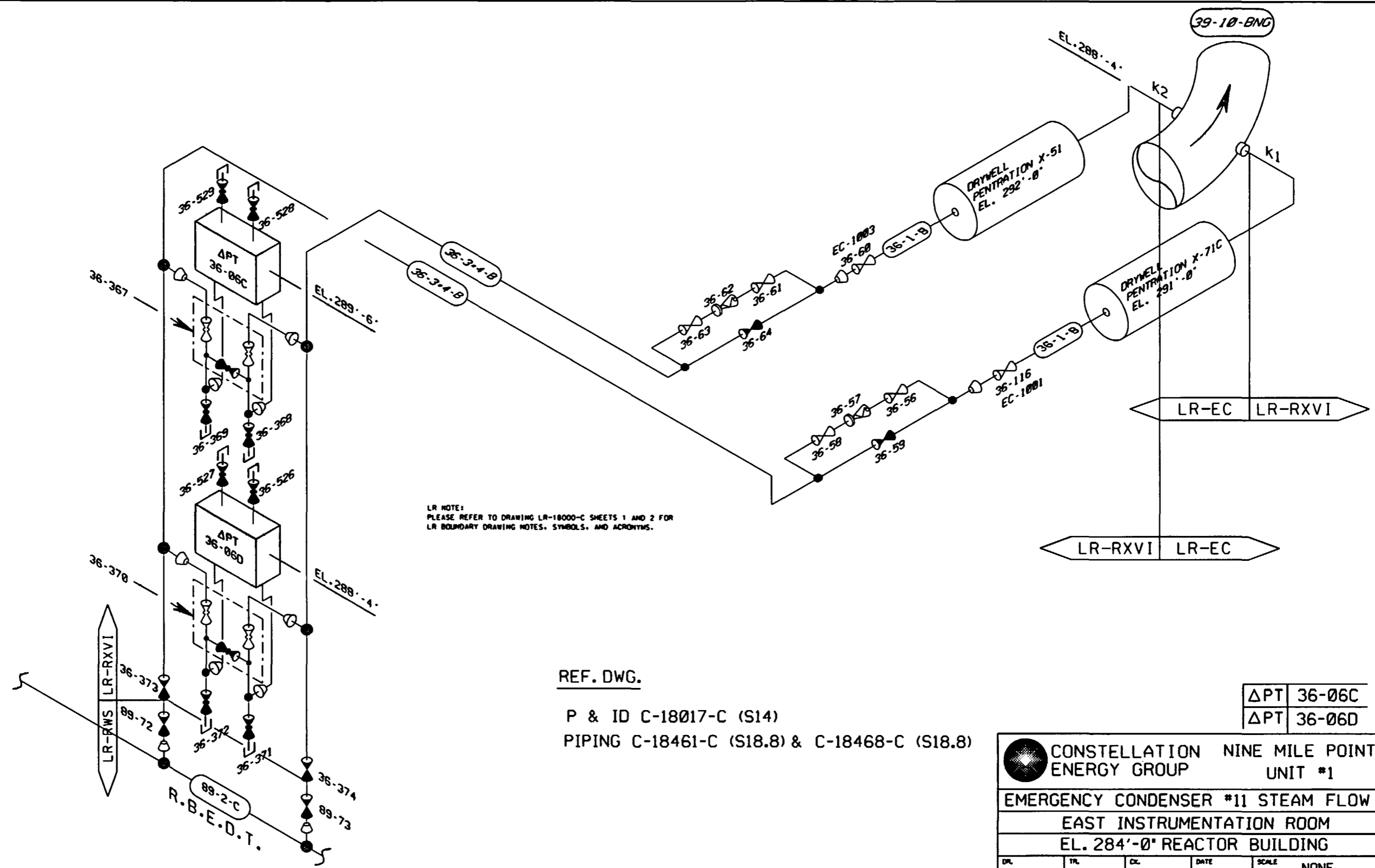
REF. DWG.  
 P & ID C-18015-C  
 PIPING C-18467-C (S18.8)  
 C-18469-C (S18.8)  
 LOOP

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|   |     |          |      |          |            |
|---|-----|----------|------|----------|------------|
| <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |     |          |      |          |            |
| UNIT #1   |     |          |      |          |            |
| REACTOR VESSEL LEVEL                              |     |          |      |          |            |
| (WIDE RANGE) & PRESSURE                           |     |          |      |          |            |
| WEST INST. ROOM RB EL. 284'-0"                    |     |          |      |          |            |
| DR.   | TR. | CHK.     | DATE | SCALE    | NONE       |
| APPROVED  |     | APPROVED |      | INDEX    |            |
| APPROVED  |     | APPROVED |      | DWG. NO. | LR-69015-C |
|   |     |          |      | DL       | 3          |
|   |     |          |      | REV.     | 0          |

| REV | DATE | BY | REMARKS | CL | APP. |
|-----|------|----|---------|----|------|
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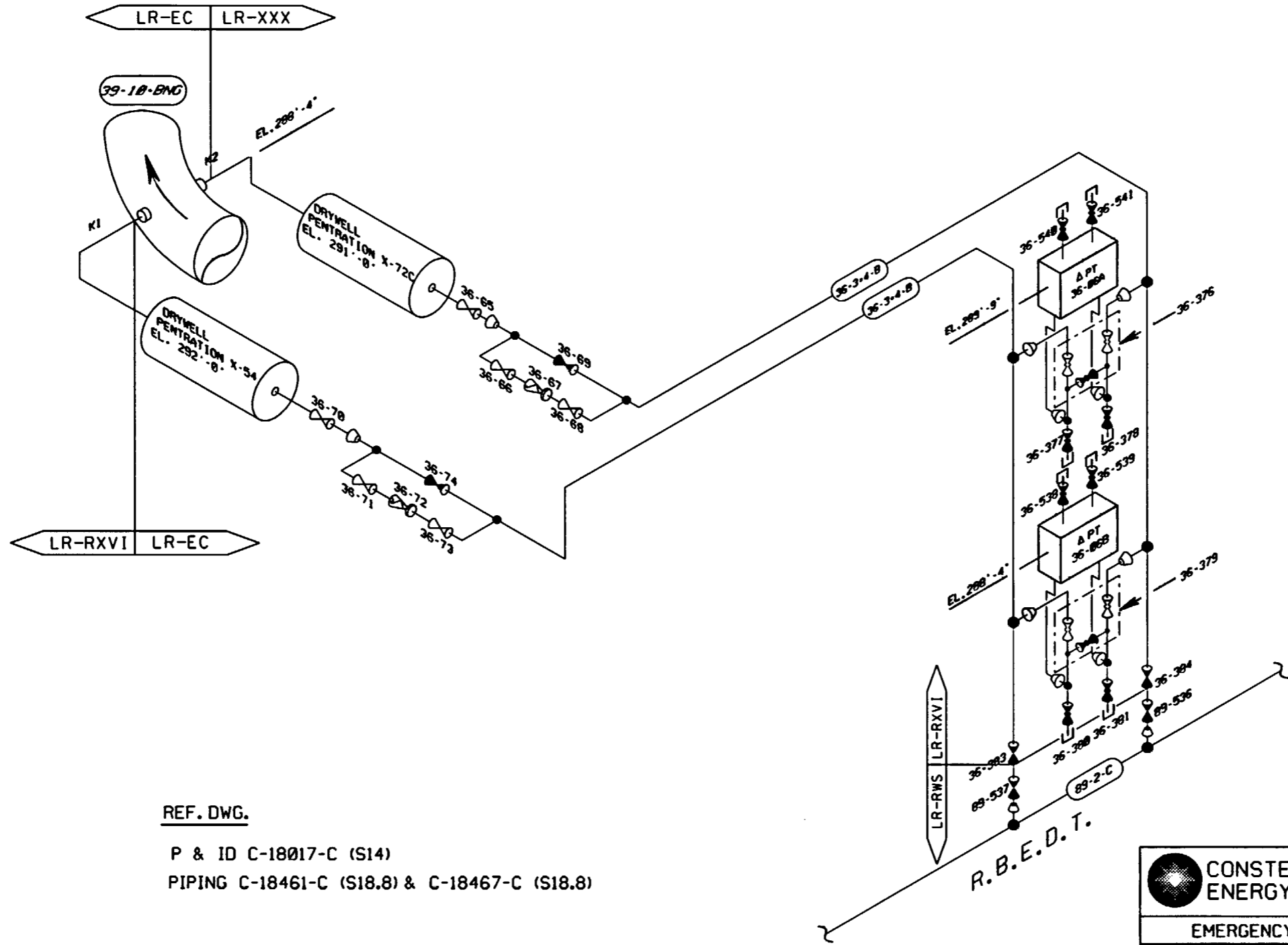
LR NOTE:  
PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

REF. DWG.  
P & ID C-18017-C (S14)  
PIPING C-18461-C (S18.8) & C-18468-C (S18.8)

|     |        |
|-----|--------|
| ΔPT | 36-06C |
| ΔPT | 36-06D |

|  |                     |    |       |        |
|--|---------------------|----|-------|--------|
| <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b><br>UNIT #1 |                     |    |       |        |
| <b>EMERGENCY CONDENSER #11 STEAM FLOW</b>                    |                     |    |       |        |
| <b>EAST INSTRUMENTATION ROOM</b>                             |                     |    |       |        |
| <b>EL. 284'-0" REACTOR BUILDING</b>                          |                     |    |       |        |
| DPL  | TR                  | CL | DATE  | SCALE  |
|  |                     |    |       | NONE   |
| APPROVED   | APPROVED            |    | INDEX |        |
| APPROVED   | DUAL NO. LR-69017-C |    | SPL 2 | REV. 0 |

|   |  |  |  |  |  |  |  |  |  |  |               |
|---|--|--|--|--|--|--|--|--|--|--|---------------|
| 0 |  |  |  |  |  |  |  |  |  |  | INITIAL ISSUE |
|---|--|--|--|--|--|--|--|--|--|--|---------------|




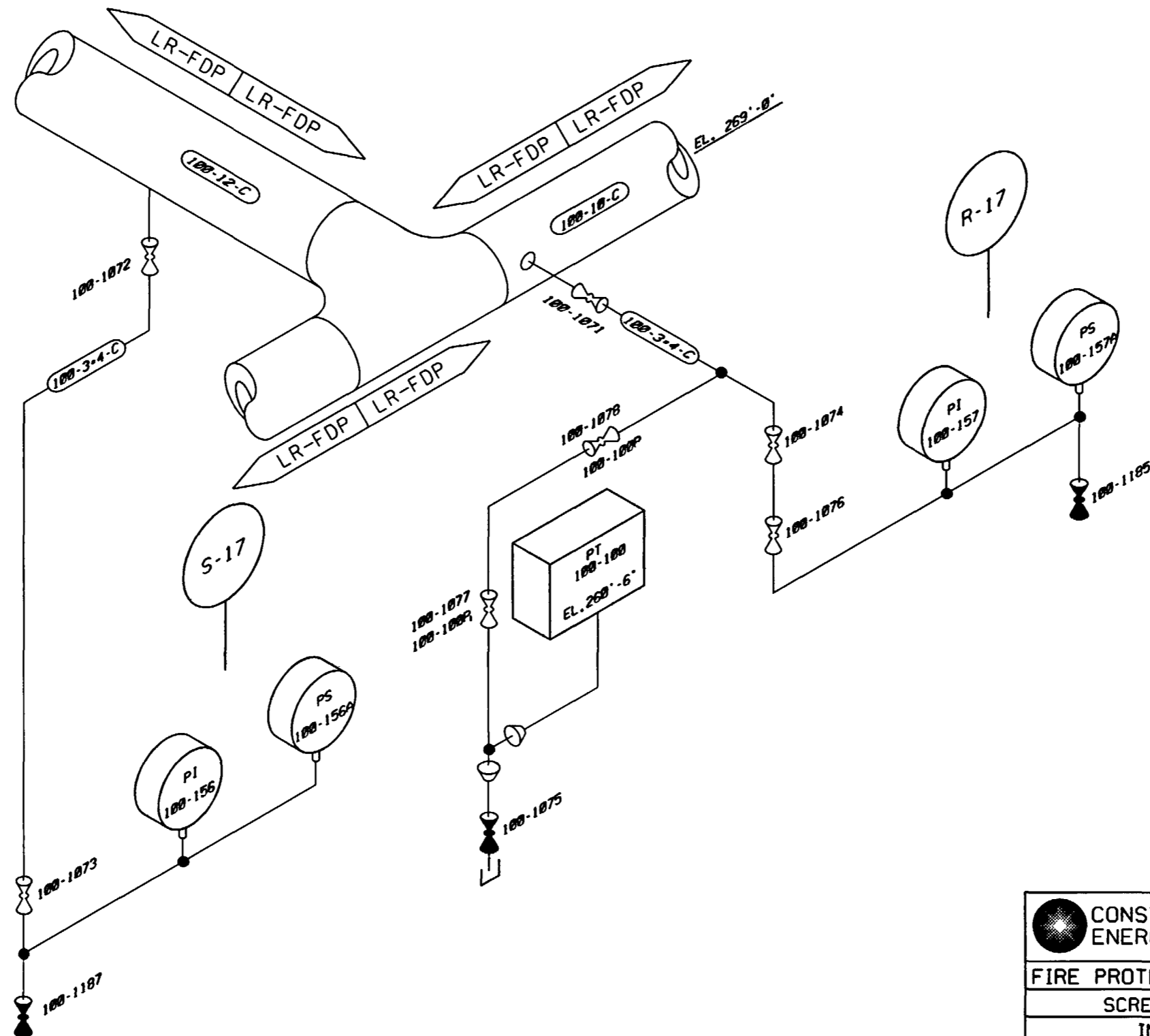
REF. DWG.

P & ID C-18017-C (S14)  
 PIPING C-18461-C (S18.8) & C-18467-C (S18.8)

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|     |        |
|-----|--------|
| ΔPT | 36-06A |
| ΔPT | 36-06B |

|   |     |          |          |            |
|---|-----|----------|----------|------------|
|  <b>CONSTELLATION NINE MILE POINT ENERGY GROUP</b> |     |          |          |            |
| UNIT #1   |     |          |          |            |
| EMERGENCY CONDENSER #12 STEAM FLOW  |     |          |          |            |
| WEST INSTRUMENTATION ROOM   |     |          |          |            |
| EL. 284'-0" REACTOR BUILDING  |     |          |          |            |
| DR.   | TR. | CK.      | DATE     | SCALE      |
| APPROVED  |     | APPROVED |          | NONE       |
|   |     |          | INDEX    | 3-N2.1-S14 |
|   |     |          | DWG. NO. | LR-69017-C |
|   |     |          | SHEET    | 3          |
|   |     |          | REV.     | 0          |



|    |          |
|----|----------|
| PT | 100-100  |
| PI | 100-156  |
| PI | 100-157  |
| PS | 100-156A |
| PS | 100-157A |

REFERENCE:  
 P & ID C-18030-C, SH.3 (S13.1)  
 PIPING C-18313-C (S18.8)

LR NOTE:  
 PLEASE REFER TO DRAWING LR-18000-C SHEETS 1 AND 2 FOR  
 LR BOUNDARY DRAWING NOTES, SYMBOLS, AND ACRONYMS.

|  |    |            |      |              |
|--|----|------------|------|--------------|
| CONSTELLATION NINE MILE POINT ENERGY GROUP UNIT #1 |    |            |      |              |
| FIRE PROTECTION (WATER) HDR PRESSURE               |    |            |      |              |
| SCREEN HOUSE EL. 256' - 0'                         |    |            |      |              |
| INSTRUMENT DIAGRAM                                 |    |            |      |              |
| DL   | TL | CL         | DATE | SCALE        |
|  |    |            |      | NONE         |
| APPROVED   |    | APPROVED   |      | INDEX        |
|  |    |            |      | 3-N2.1-S13.1 |
| APPROVED   |    | DWG. NO.   | REV. |              |
|  |    | LR-69030-C | 2    | 0            |

| REV | DATE | BY | REMARKS | CL | APP. |
|-----|------|----|---------|----|------|
|     |      |    |         |    |      |

**THIS PAGE IS IN  
REFERENCE TO THE  
LICENSE RENEWAL  
BOUNDARY DRAWINGS  
FOR NINE MILE POINT  
UNITS 1 AND 2**

**DRAWINGS WERE  
SCANNED, ADDED TO  
ADAMS AND INCLUDED  
IN THE ADAMS  
PACKAGE WITH THE  
TRANSMITTAL LETTER**

**THIS PAGE IS AN  
OVERSIZED DRAWING  
OR FIGURE,**

**THAT CAN BE VIEWED AT  
THE RECORD TITLED:  
DWG. NO. LR-NMP-S-1  
REV. 0**

**16 JUN 2003**

**“LICENSE RENEWAL  
SITE PLAN”**

**WITHIN THIS PACKAGE...OR,  
BY SEARCHING USING**

**DWG. NO. LR-NMP-S-1**

**PROPRIETARY**

**D224X**