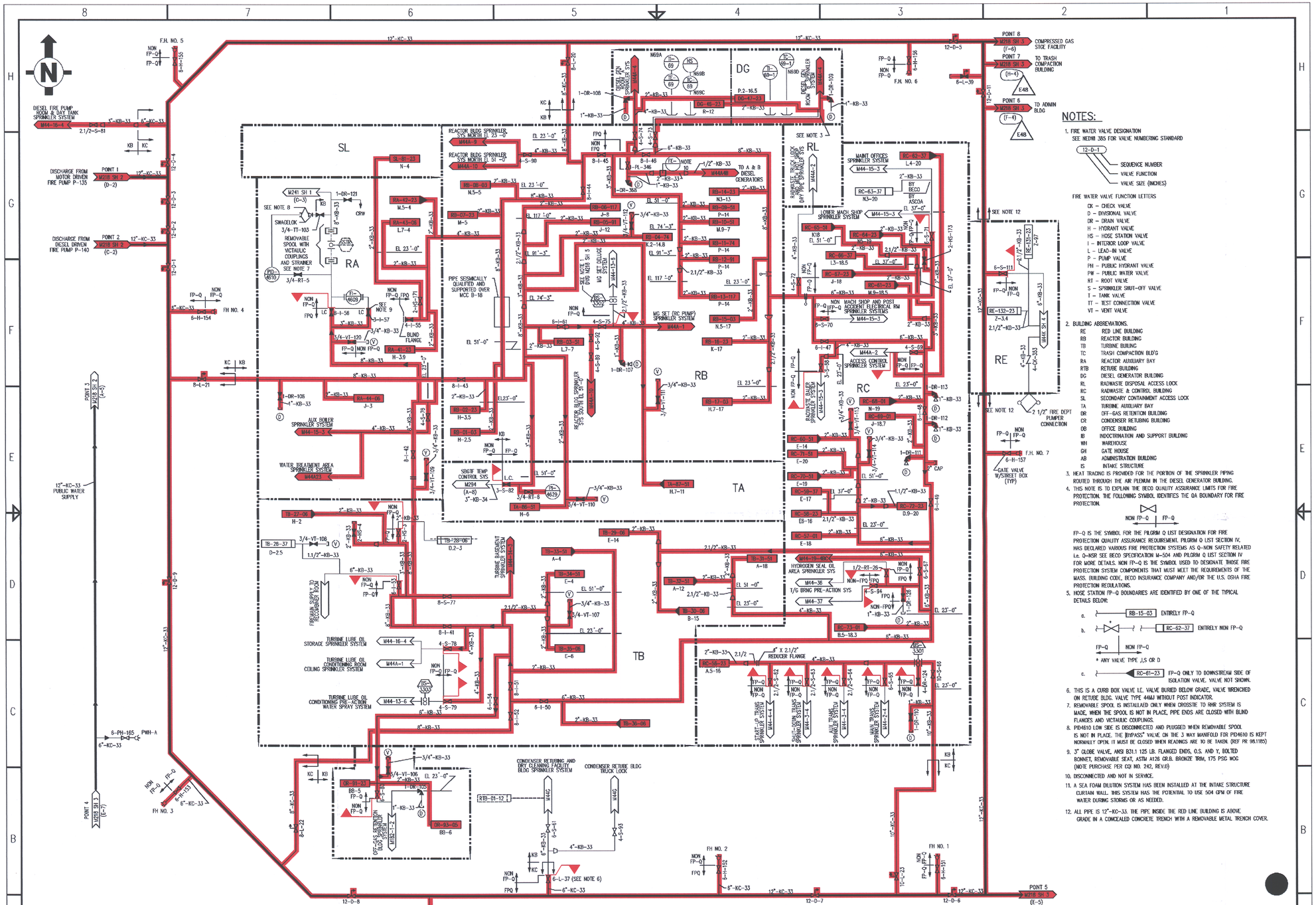

NOTES:

1. FIRE WATER VALVE DESIGNATION
   SEE NEDWI 385 FOR VALVE NUMBERING STANDARD

   12-D-1
   - SEQUENCE NUMBER
   - VALVE FUNCTION
   - VALVE SIZE (INCHES)

   FIRE WATER VALVE FUNCTION LETTERS

   - CK – CHECK VALVE
   - D – DIVISIONAL VALVE
   - DR – DRAIN VALVE
   - H – HYDRANT VALVE
   - HS – HOSE STATION VALVE
   - I – INTERIOR LOOP VALVE
   - L – LEAD-IN VALVE
   - P – PUMP VALVE
   - PH – PUBLIC HYDRANT VALVE
   - PW – PUBLIC WATER VALVE
   - RT – ROOT VALVE
   - S – SPRINKLER SHUT-OFF VALVE
   - T – TANK VALVE
   - TT – TEST CONNECTION VALVE
   - VT – VENT VALVE

2. BUILDING ABBREVIATIONS.

RE	RED LINE BUILDING
RB	REACTOR BUILDING
TB	TURBINE BUILING
TC	TRASH COMPACTION BLD'G
RA	REACTOR AUXILIARY BAY
R/B	RETUBE BUILDING
DG	DIESEL GENERATOR BUILDING
RL	RADWASTE DISPOSAL ACCESS LOCK
RC	RADWASTE & CONTROL BUILDING
SL	SECONDARY CONTAINMENT ACCESS LOCK
TA	TURBINE AUXILIARY BAY
OR	OFF-GAS RETENTION BUILDING
CR	CONDENSER RETUBING BUILDING
OB	OFFICE BUILDING
IB	INDOCTRINATION AND SUPPORT BUILDING
WH	WAREHOUSE
GH	GATE HOUSE
AB	ADMINISTRATION BUILDING
IS	INTAKE STRUCTURE

3. HEAT TRACING IS PROVIDED FOR THE PORTION OF THE SPRINKLER PIPING ROUTED THROUGH THE AIR PLENUM IN THE DIESEL GENERATOR BUILDING.
4. THIS NOTE IS TO EXPLAIN THE BECO QUALITY ASSURANCE LIMITS FOR FIRE PROTECTION. THE FOLLOWING SYMBOL IDENTIFIES THE QA BOUNDARY FOR FIRE PROTECTION.

   NON FP-Q — FP-Q

   FP-Q IS THE SYMBOL FOR THE PILGRIM Q LIST DESIGNATION FOR FIRE PROTECTION QUALITY ASSURANCE REQUIREMENT. PILGRIM Q LIST SECTION IV, HAS DECLARED VARIOUS FIRE PROTECTION SYSTEMS AS Q–NON SAFETY RELATED i.e. Q–NSR SEE BECO SPECIFICATION M–504 AND PILGRIM Q LIST SECTION IV FOR MORE DETAILS. NON FP–Q IS THE SYMBOL USED TO DESIGNATE THOSE FIRE PROTECTION SYSTEM COMPONENTS THAT MUST MEET THE REQUIREMENTS OF THE MASS. BUILDING CODE, BECO INSURANCE COMPANY AND/OR THE U.S. OSHA FIRE PROTECTION REGULATIONS.
5. HOSE STATION FP–Q BOUNDARIES ARE IDENTIFIED BY ONE OF THE TYPICAL DETAILS BELOW:

   a. RB-15-03 — ENTIRELY FP–Q
   b. RC-62-37 — ENTIRELY NON FP–Q (FP–Q / NON FP–Q)
      * ANY VALVE TYPE J,S OR D
   c. RC-61-23 — FP–Q ONLY TO BOWNSTREAM SIDE OF ISOLATION VALVE. VALVE NOT SHOWN.

6. THIS IS A CURB BOX VALVE I.E. VALVE BURIED BELOW GRADE, VALVE TRENCHED ON RETUBE BLDG. VALVE TYPE 44MJ WITHOUT POST INDICATOR.
7. REMOVABLE SPOOL IS INSTALLED ONLY WHEN CROSSTIE TO RHR SYSTEM IS MADE. WHEN THE SPOOL IS NOT IN PLACE, PIPE ENDS ARE CLOSED WITH BLIND FLANGES AND VICTAULIC COUPLINGS.
8. PID4610 LOW SIDE IS DISCONNECTED AND PLUGGED WHEN REMOVABLE SPOOL IS NOT IN PLACE. THE "BYPASS" VALVE ON THE 3 WAY MANIFOLD FOR PID4610 IS KEPT NORMALLY OPEN. IT MUST BE CLOSED WHEN READINGS ARE TO BE TAKEN. (REF PR 98.1185)
9. 3" GLOBE VALVE, ANSI B31.1 125 LB. FLANGED ENDS, O.S. AND Y, BOLTED BONNET, REMOVABLE SEAT, ASTM A126 GR.B. BRONZE TRIM, 175 PSIG WOG (NOTE PURCHASE PER CQI NO. 242, REV.0)
10. DISCONNECTED AND NOT IN SERVICE.
11. A SEA FOAM DILUTION SYSTEM HAS BEEN INSTALLED AT THE INTAKE STRUCTURE CURTAIN WALL. THIS SYSTEM HAS THE POTENTIAL TO USE 504 GPM OF FIRE WATER DURING STORMS OR AS NEEDED.
12. ALL PIPE IS 12"–KC–33. THE PIPE INSIDE THE RED LINE BUILDING IS ABOVE GRADE IN A CONCEALED CONCRETE TRENCH WITH A REMOVABLE METAL TRENCH COVER.

SYSTEM INTENDED FUNCTION BOUNDARY

COMPONENTS SUBJECT TO AMR

FIRE PROTECTION - WATER SYSTEM AMRM-17

NO.	DATE	DESCRIPTION	BY	ENG	CHK	APP
0	3-31-05					

REVISIONS

LRA-M-218-SH-01-0

CAD FILE: LRA-M-218-SH-01_E48.DGN

RASTER FILE: M218SH1-CALS_E48.CAL

NO	DATE	REVISIONS	BY	ENG	CHK	APP
E45	2/06	REVISED PER DCN 00-07609	CTS	—	AEJ	DLJ
E44	12/86	REVISED FOR PR 97.1897 PER DCN 04654	CTS	—	AEJ	DLJ
E43	8/98	REVISED PER DCN 98-04167	TEB	—	AEJ	DLJ
E42	8/98	REVISED FOR PR 98.1185.01 PER DCN 04149	CTS	—	AJB	DLJ
E41	3/98	REVISED PER DCN 98-02819	CTS	—	AEJ	DLJ
E40	N/A	REVISED FOR PR 97.3011.01 PER DCN 02352	TEB	—	AEJ	DLJ
E39	N/A	REVISED PER DCN 97-02321	TEB	—	AEJ	DLJ
E38	N/A	REVISED FOR PR 97.3012.01 PER DCN 02310	TEB	—	AEJ	DLJ
E37	N/A	REVISED FOR PR 97.2884.01 PER DCN 02295	CTS	—	AEJ	DLJ
E48	9/03	REVISED PER DCN 03-15380	TEB	—	AEJ	NJB
E47	8/03	REVISED PER DCN 03-15300	AEJ	—	NJM	NJB
E46	11/00	REVISED PER DCN 00-09411	AJB	—	AEJ	DLJ

TITLE OF REFERENCE DRAWINGS | DWG NUMBER

SCALE: NONE | DESIGNED: — | DRAWN R. W. BRIDGED | E

Entergy

Entergy Nuclear Generation Company
PILGRIM STATION
PLYMOUTH, MA

TITLE: P & ID FIRE PROTECTION SYSTEM

Q SEE NOTE 4 | Non Q

DRAWING NO. M218 SH 1 | REV E48

41100–2687 FSAR FIGURE 10.8–1(REV 16) Q:\MECH\P&ID\M218SH1.DWG

D-12