NOTES FOR DESIGNER:

1. PIPING SHOWN IN STEAM/CONDENSATE TIE-IN DETAIL IS SCHEMATIC. FINISHED CONSTRUCTION DRAWINGS SHALL SHOW PIPING AND VALVES DRAWN TO SCALE TO ENSURE ADEQUATE CLEARANCES AND MANHOLE SIZE.

2. DESIGN DISTRIBUTION SYSTEM UP TO AND INCLUDING FIRST SHUT-OFF VALVE WITHIN THE BUILDING FOR 150 PSIG WORKING STEAM PRESSURE (WSP) AND 500°F TEMPERATURE SHALL ENTER THE BUILDING IN A DESIGNATED MECHANICAL ROOM.

3. WHEN EDITING DETAIL TO SUIT PROJECT AND JOB SPECIFIC REQUIREMENTS DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE LANL DESIGN DISTRIBUTION SYSTEM UP TO AND INCLUDING FIRST PRV AND BYPASS VALVE WITHIN THE BUILDING PIPING SHOWN IN STEAM MANHOLE IS SCHEMATIC. FINAL CONSTRUCTION DRAWINGS SHALL SHOW PIPING LOCATION AND DETAILS OF STEAM/CONDENSATE TIE-IN AND MANHOLE SHALL BE APPROVED BY THE LANL.

4. MINIMUM PIPE SIZE FOR STEAM AND CONDENSATE DISTRIBUTION PIPING SHALL BE 2".

5. PROVIDE Drip LEG AT BOTTOM OF STEAM LINE AT ALL VERTICAL PENETRATIONS. PROVIDE DRIP LEG AT BOTTOM OF STEAM LINE AT ALL VERTICAL PENETRATIONS.

6. EQUIPMENT ROOM.

7. LANL MSS U&I WILL ASSEMBLE PIPING, VALVES, ETC. IN STEAM MANHOLE AND TIE INTO EXISTING STEAM AND CONDENSATE MAINS BY CUTTING A TEE SIZED TO MATCH NEW LINES) WITH ALL MATERIALS FURNISHED BY SUBCONTRACTOR.

8. LANL STR WILL NOTIFY MSS U&I 15 WORKING DAYS IN ADVANCE TO SCHEDULE TIE-IN AND INSTALLATION OF STEAM MANHOLE PIPING, VALVES, ETC. LANL STR TO ENSURE ALL MATERIAL ARE ON SITE.

9. LINING STR TO ENSURE ALL MATERIAL ARE ON SITE.

10. SUBCONTRACTOR SHALL TERMINATE CAP PIPING A MINIMUM OF 1/2" INSIDE STEAM MANHOLE OR PER MANUFACTURERS INSTRUCTIONS.

11. USE GRAPHIC SCALE ACCORDINGLY.

GENERAL NOTES:

1. IF THIS SHEET IS NOT 24"X36" USE GRAPHIC SCALE ACCORDINGLY.

KEYED NOTES:

1. SUBCONSTRUCTION SHALL TERMINATE AND CAP PIPING A MINIMUM OF 1/2" INSIDE STEAM MANHOLE OR PER MANUFACTURERS INSTRUCTIONS.

2. LAIN MSS U&I WILL ASSEMBLE PIPING, VALVES, ETC. IN STEAM MANHOLE AND TIE INTO EXISTING STEAM AND CONDENSATE MAINS BY CUTTING A TEE SIZED TO MATCH NEW LINES) WITH ALL MATERIALS FURNISHED BY SUBCONTRACTOR.

3. LAIN STR WILL NOTIFY MSS U&I 15 WORKING DAYS IN ADVANCE TO SCHEDULE TIE-IN AND INSTALLATION OF STEAM MANHOLE PIPING, VALVES, ETC. LANL STR TO ENSURE ALL MATERIAL ARE ON SITE.

4. 3/4" BY PASS PROVIDE WHEN MAIN IS 4" AND LARGER BYPASS VALVE TO BE ON SAME PLANE WITH SHUT-OFF VALVE.

5. LOCATE FIRST SHUT-OFF VALVE WITHIN 5 FEET OF BUILDING WALL PENETRATIONS.

6. PROVIDE Drip LEG AT BOTTOM OF STEAM LINE AT ALL VERTICAL RISES OR CHANGES IN DIRECTION OF STEAM PIPING.

7. PIPE SHOWN IN STEAM/CONDENSATE TIE-IN DETAIL IS SCHEMATIC. FINISHED CONSTRUCTION DRAWINGS SHALL SHOW PIPING AND VALVES DRAWN TO SCALE TO ENSURE ADEQUATE CLEARANCES AND MANHOLE SIZE.

8. LOCATED ACCESS TO COLUMN MANHOLE WITH 6" DIAMETRIC STEEL GRATING AND HINGED COVER TO SET ON ANGLE IRON FLUSH WITH MANHOLE TOP. AT MINIMUM, SUPPORT HINGED COVER UNDER HINGED SIDE AND SIDE OPPOSITE HINGE.

9. MANHOLE TO BE OF ADEQUATE SIZE TO ALLOW TWO PEOPLE COMFORTABLE WORK SPACE.

10. LADDER SHALL COMPLY WITH OSHA 29CFR 1910.27, FIXED LADDERS, AND/OR ANSI A14.2, SAFETY GRATING AND HINGED COVER TO SET ON ANGLE IRON FLUSH WITH MANHOLE TOP. AT MINIMUM, SUPPORT HINGED COVER UNDER HINGED SIDE AND SIDE OPPOSITE HINGE.

11. REFER TO LANL CONSTRUCTION SPECIFICATION 33-0000 STEAM ENERGY DISTRIBUTION (SITE).