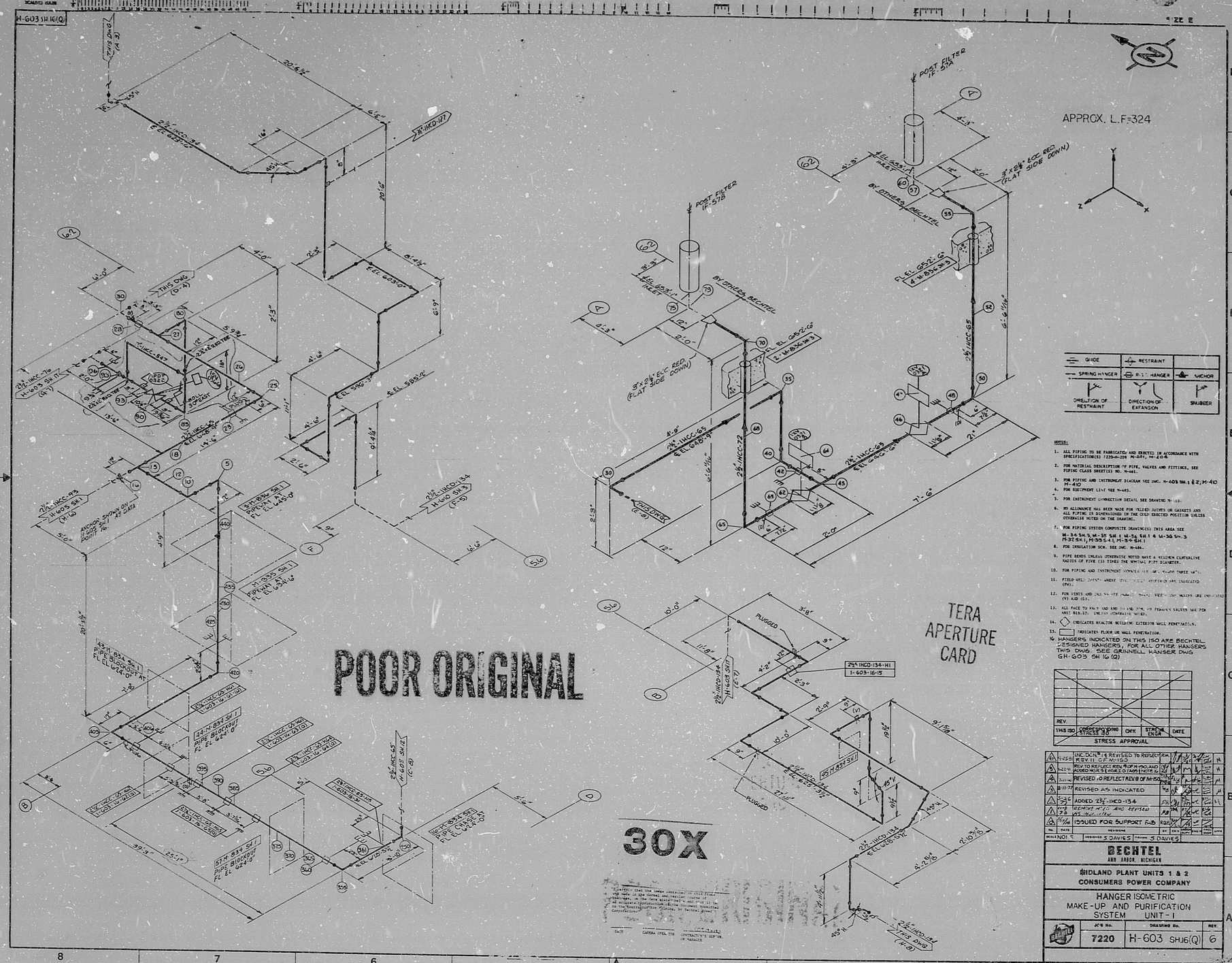
APPROX. L.F.=324
GUIDE
RESTRAINT
SPRING HANGER
RIGID HANGER
ANCHOR
DIRECTION OF RESTRAINT
DIRECTION OF EXPANSION
SNUBBER
NOTES:
1. ALL PIPING TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH SPECIFICATION(S) 7220-M-209 M-401, M-404.
2. FOR MATERIAL DESCRIPTION OF PIPE, VALVES AND FITTINGS, SEE PIPING CLASS SHEET(S) NO. M-441.
3. FOR PIPING AND INSTRUMENT DIAGRAM SEE DWG. M-409 SH.1 & 2; M-410 M-411
4. FOR EQUIPMENT LIST SEE M-403.
5. FOR INSTRUMENT CONNECTION DETAIL SEE DRAWING M-[illegible].
6. NO ALLOWANCE HAS BEEN MADE FOR WELDED JOINTS OR GASKETS AND ALL PIPING IS DIMENSIONED IN THE COLD ERECTED POSITION UNLESS OTHERWISE NOTED ON THE DRAWING.
7. FOR PIPING SYSTEM COMPOSITE DRAWING(S) THIS AREA SEE M-34 SH.3, M-35 SH.1 M-35 SH.1 & M-36 SH.3 M-92 SH.1, M-93 S-4, M-94 SH.1
8. FOR INSULATION SCH. SEE DWG. M-484.
9. PIPE BENDS UNLESS OTHERWISE NOTED HAVE A MINIMUM CENTERLINE RADIUS OF FIVE (5) TIMES THE NOMINAL PIPE DIAMETER.
10. FOR PIPING AND INSTRUMENT CONNECTIONS SEE DWG. M-[illegible] THRU M-[illegible].
11. FIELD WELD JOINTS UNLESS OTHERWISE NOTED ARE INDICATED (FW).
12. FOR VENTS AND DRAINS SEE DWG. M-[illegible]. VENTS AND DRAINS ARE INDICATED (V) AND (D).
13. ALL FACE TO FACE AND END TO END DIMENSIONS OF FRANGE VALVES USE FOR UNIT B18.10. UNLESS OTHERWISE NOTED.
14. ◇ INDICATES REACTOR BUILDING EXTERIOR WALL PENETRATION.
15. ▭ INDICATES FLOOR OR WALL PENETRATION.
16. HANGERS INDICATED ON THIS ISO ARE BECHTEL DESIGNED HANGERS, FOR ALL OTHER HANGERS THIS DWG. SEE GRINNELL HANGER DWG SH-603 SH 16 (Q)
REV. | THIS ISO | CONFORMS TO STRESS SH. | CHK | STRESS ENGR | DATE
STRESS APPROVAL
REVISED TO REFLECT REV. 11 OF M-150
REVISED AS INDICATED
ADDED 2½"-IHCD-134
ISSUED FOR SUPPORT F&B
BECHTEL
ANN ARBOR, MICHIGAN
MIDLAND PLANT UNITS 1 & 2
CONSUMERS POWER COMPANY
HANGER ISOMETRIC
MAKE-UP AND PURIFICATION SYSTEM UNIT-1
JOB No. 7220
DRAWING No. H-603 SH.16(Q)
REV. 6
TERA APERTURE CARD
POOR ORIGINAL
30X

BIRS

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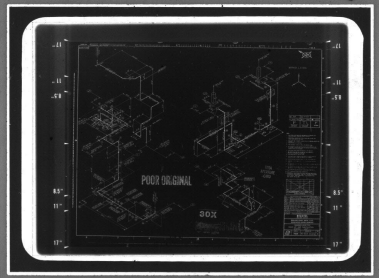

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