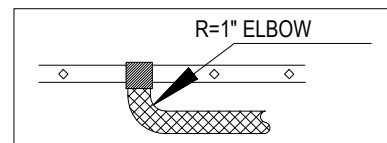


**NOTES -**

PIPERAIL HANDRAIL SHALL BE 1 1/2" O.D. 11 GAUGE D.O.M. (DRAWN OVER MANDREL) COLD DRAWN ELECTRIC RESISTANCE WELDED STEEL TUBING, CONFORMING TO ASTM SPECIFICATION A513. AN INTERNAL PIPE SLEEVE SHALL BE WELDED TO ONE END OF THE PIPERAIL AT JOINTS. PIPERAIL SHALL THEN BE FULLY WELDED AND GROUND SMOOTH.

- PIPERAIL SHALL BE PAINTED AS PER SPECS.
- ALL JOINTS SHALL BE FULLY WELDED AND GROUND SMOOTH (TYP).
- ELEVATION AT BOTTOM OF RAMP SHALL HAVE SAME PIPERAIL RELATIONSHIP TO END OF RAMP, FINISHED GRADE AND CHEEKWALL AS SHOWN ON THIS TOP OF RAMP ELEVATION.

- PIPERAIL HANDRAIL SHALL EXTEND 18" ONTO LEVEL PORTIONS OF RAMP AT BOTH TOP AND BOTTOM.
- HANDRAIL SHALL BE CONTINUOUS ALONG FENCE FROM TOP OF RAMP/STEPS TO BOTTOM OF RAMP/STEPS, BOTH SIDES.



PLAN OF  
HANDRAIL TO POST  
CONNECTION



New York City Housing Authority  
Capital Projects Division  
Design Department  
90 Church Street, 10th Floor  
New York, NY 10007

Title: **PIPE HANDRAIL on  
Level 3' Steel Bar Fence  
(For Ramps Only)**

Contract Name:

**GROUNDS REQUIREMENT**

Contract No.

**GD XXXXXXX**

Drawn by:  
G. SOUKAS

Checked by:  
K. MARSHAL

Scale:

**Not to Scale**

Date:

**January 2017**

Drawing No.

**HAN- 03**