

**STORM - DISCHARGE
STRUCTURE TO HEADWALL 2**

Elevation (ft)

Station (ft)

HW 2
Rim: 65.00 ft
Invert: 61.00 ft

MH 2
Rim: 64.00 ft
Invert: 61.00 ft

PIPE 16: 30.0' HDPE-P-51.0' @ 0.2%

PIPE 15: 24.0' HDPE-P-100.0' @ 0.7%

MANLET 7
Rim: 71.50 ft
Invert: 61.80 ft

PIPE 14: 24.0' HDPE-P-58.0' @ 1.0%

DIS STRUCT
Rim: 75.00 ft
Invert: 68.00 ft

STORM -
INLET 1a to HW1

Profile view of the proposed 12-inch HDPE storm sewer system for the 100-year flood. The graph shows elevation (ft) on the y-axis (74 to 92) and station (ft) on the x-axis (-20 to 3120). The main sewer line starts at station 0+00 (elevation 81.00 ft) and ends at station 3+00 (elevation 90.00 ft). It includes three inlets: Inlet 1 at station 1+40 (elevation 86.75 ft), Inlet 2 at station 1+40 (elevation 84.24 ft), and Inlet 3 at station 2+40 (elevation 87.55 ft). The sewer line consists of three segments: 16.0 ft of 12-inch HDPE at 1.0% slope, 20.0 ft of 12-inch HDPE at 1.0% slope, and 26.0 ft of 12-inch HDPE at 1.0% slope. The total length is 62.0 ft. The sewer line is shown in black, and the existing ground is shown in gray.

Station (ft)	Elevation (ft)	Feature
0+00	81.00	HW 1 (Rim: 81.00 ft, Invert: 79.00 ft)
0+20	88.60	MI 1 (Rim: 88.60 ft, Invert: 79.16 ft)
1+40	86.75	INLET 1 (Rim: 86.75 ft, Invert: 84.50 ft)
1+40	84.24	INLET 2 (Rim: 84.24 ft, Invert: 82.00 ft)
2+40	87.55	MI 1a (Rim: 87.55 ft, Invert: 85.30 ft)
2+40	87.55	INLET 3 (Rim: 87.55 ft, Invert: 85.30 ft)
3+00	90.00	INLET 1a (Rim: 90.00 ft, Invert: 88.00 ft)

PIPE 5: 12" HDPE - 16.0 ft @ 1.0%
PIPE 6: 12" HDPE - 20.0 ft @ 1.0%
PIPE 3: 12" HDPE - 26.0 ft @ 1.0%

STORM SEWER PROFILE

TOWNSHIP OF SOUTH ORANGE
ESSEX COUNTY, NJ

NY State Board of Professional Engineers & Land
Surveyors Certificate of Authorization # 24GA27985400

258 Main Street, PO Box 191
Millburn, New Jersey 07041

Michael Lanza
New Jersey Professional Engineer/Land Surveyor No. 26000
New Jersey Professional Planner No. 03503

DATE 09-08-2016

30084

PM

DRAWN BY

DWG.NO.

14

100

Vertical Scale: 1"= 4'

A vertical scale bar with horizontal lines. The numbers 0, 2, 4, 8, and 12 are placed above the bar. The bar is divided into segments by vertical lines at each number. The segment between 0 and 2 is further divided into four smaller segments by horizontal lines, indicating that each small segment represents 0.5 feet.

Scale: 1" = 40'

A horizontal graphic scale bar with tick marks at 0, 20, 40, 80, 120, and 160 feet. The text 'Scale: 1" = 40\'' is centered above the bar.

REVISIONS
