

Palestine Polytechnic University
College Of Engineering
Civil &Architecture Engineering Department
Surveying &Geomatics Engineering



() ملحق

Project Title:
Design Of almajour street
Content:

Profile Of Sewer Line.

Project Team:

-AHMAD NAWAHDA

-EHAB SWIETY

Dec - 2014 -MALEK ALSHARIEH

Supervisor:
Eng. FAYDI SHABAEH

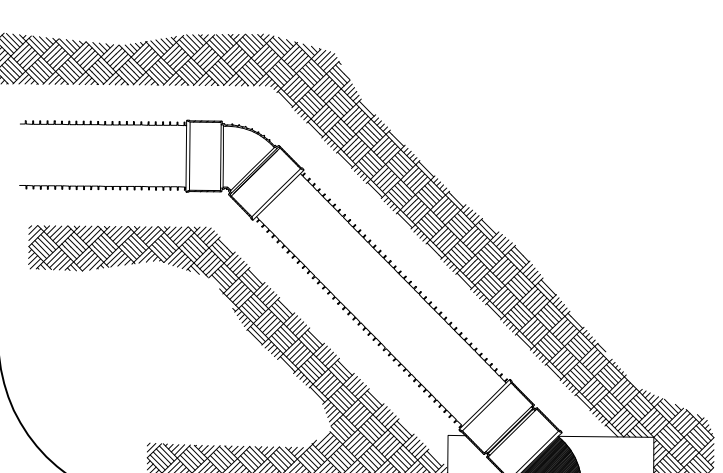


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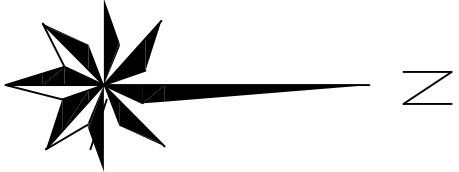
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NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour sreet

Project Team:

AHMAD NAW/AHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #1_1)

Figure Number :

Fig 1

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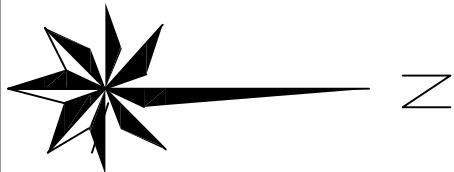
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Date :Dec/2014



POINT NUMBER	1	2	3	4
MANHOLE NUMBER	MH1	MH2	MH3	MH4
STATION	0+00	1+16.5	1+81.5	2+55.5
GROUND ELEVATOIN	878.08	870.23	865.96	860.22
INVERT ELEVATION	869.13	864.35	858.52	849.61
DEPTH OF MANHOLES	8.95	5.88	7.44	10.61
DISTANCE OF MANHLE (M)		116.5	65.0	74.0
PIPE DIAMETER (mm)		900	1050	1200
PIPE SLOPE (%)		0.7	0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAW/AHDA
EHAB SWIETY
MALEK AL.SHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #1_2)

Figure Number :

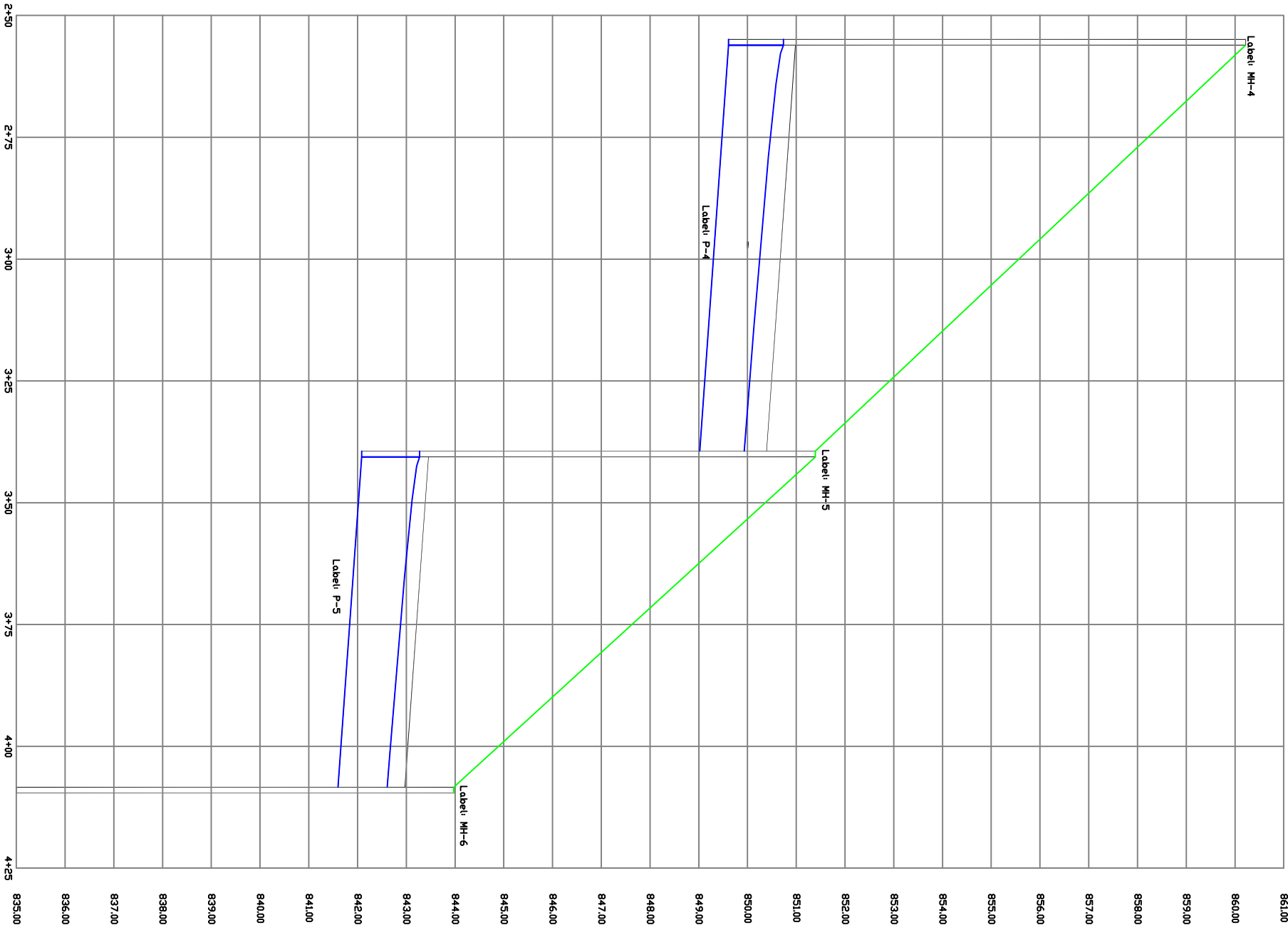
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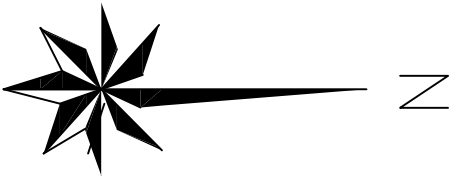
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Date :Dec/2014



POINT NUMBER	4	5	6
MANHOLE NUMBER	MH4	MH5	MH6
STATION	2+55.5	3+40	4+09
GROUND ELEVATOIN	860.22	851.39	843.97
INVERT ELEVATION	849.61	842.08	834.41
DEPTH OF MANHOLES	10.61	9.31	9.56
DISTANCE OF MANHILE (M)		84.5	69.0
PIPE DIAMETER (mm)		1350	1350
PIPE SLOPE (%)		0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAW/AHDA
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MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #1,3)

Figure Number :

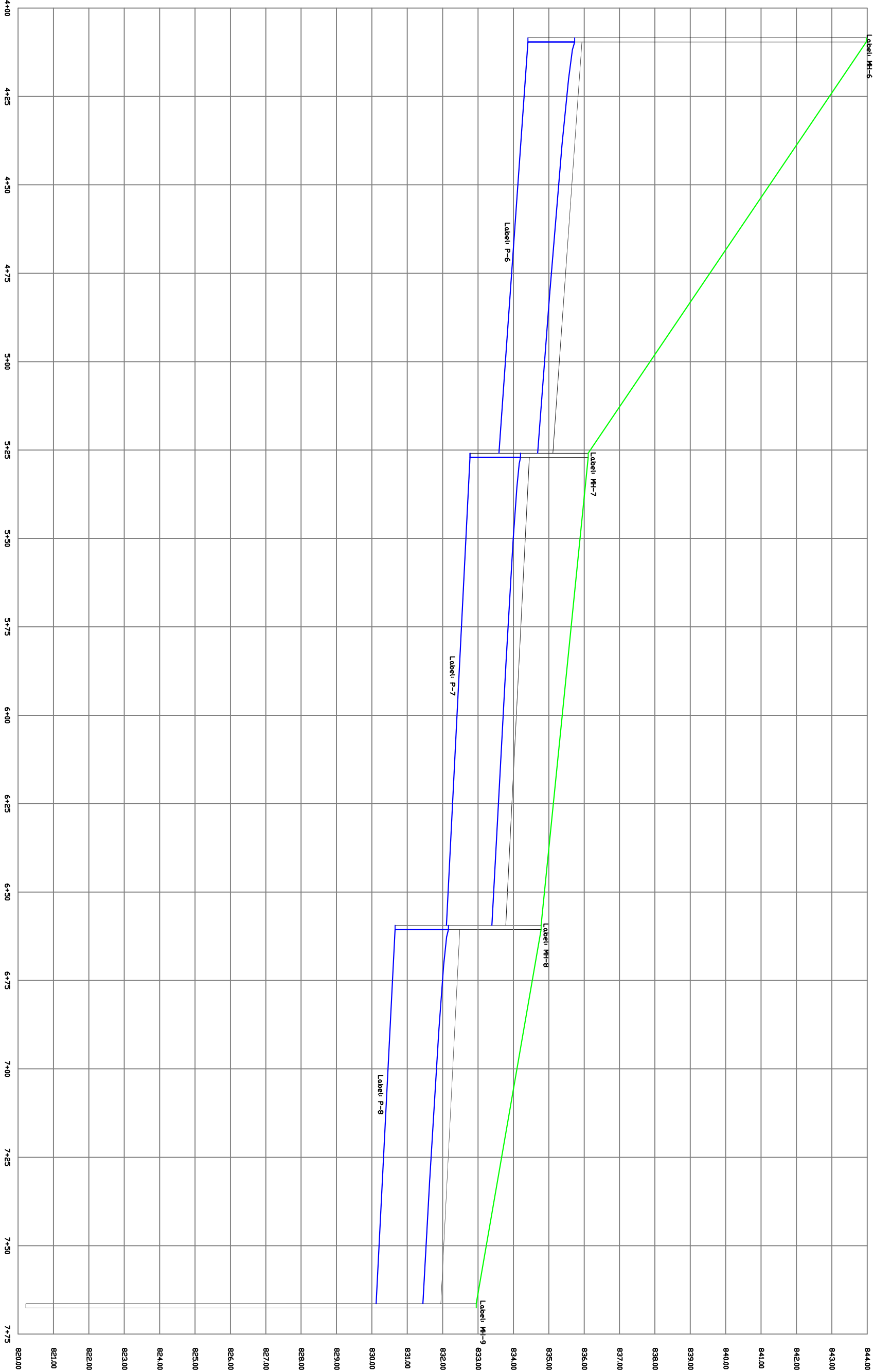
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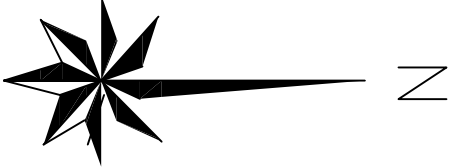
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POINT NUMBER	6	7	8	9
MANHOLE NUMBER	MH6	MH7	MH8	MH9
STATION	4+09	5+26.5	6+60	7+67
GROUND ELEVATOIN	843.97	836.11	834.78	832.95
INVERT ELEVATION	834.41	832.77	830.66	820.22
DEPTH OF MANHOLES	9.56	3.34	4.12	12.73
DISTANCE OF MANHLE (M)		117.5	133.5	107.0
PIPE DIAMETER (mm)		1500	1650	1800
PIPE SLOPE (%)		0.7	0.5	0.5
TYPE OF SURFACE	PVC	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
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Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #1_4)

Figure Number :

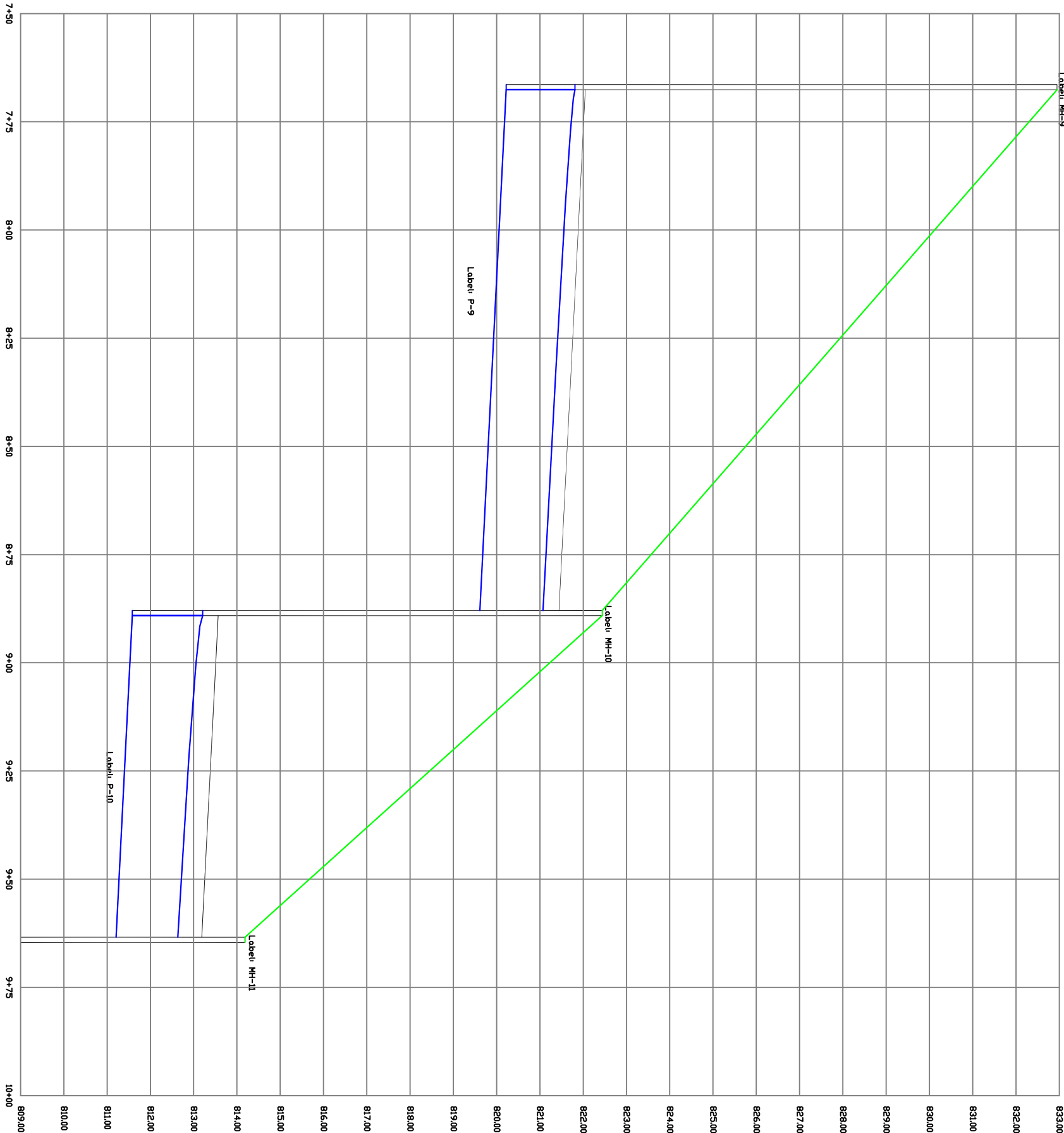
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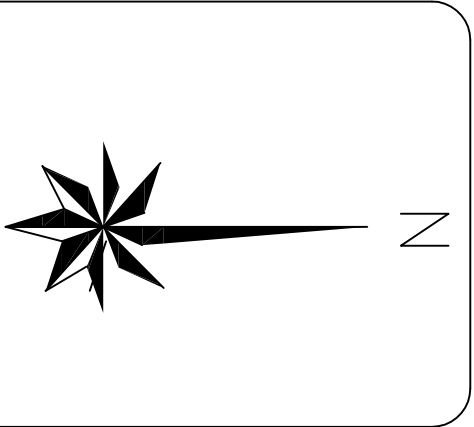
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Date :Dec/2014



POINT NUMBER	9	10	11
MANHOLE NUMBER	MH9	MH10	MH11
STATION	7+67	8+67.5	9+64
GROUND ELEVATION	832.95	822.44	814.19
INVERT ELEVATION	820.22	811.58	799.07
DEPTH OF MANHOLES	12.73	10.86	15.12
DISTANCE OF MANHLE (M)		121.5	75.5
PIPE DIAMETER (mm)		1800	1950
PIPE SLOPE (%)		0.5	0.5
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #1_5)

Figure Number :

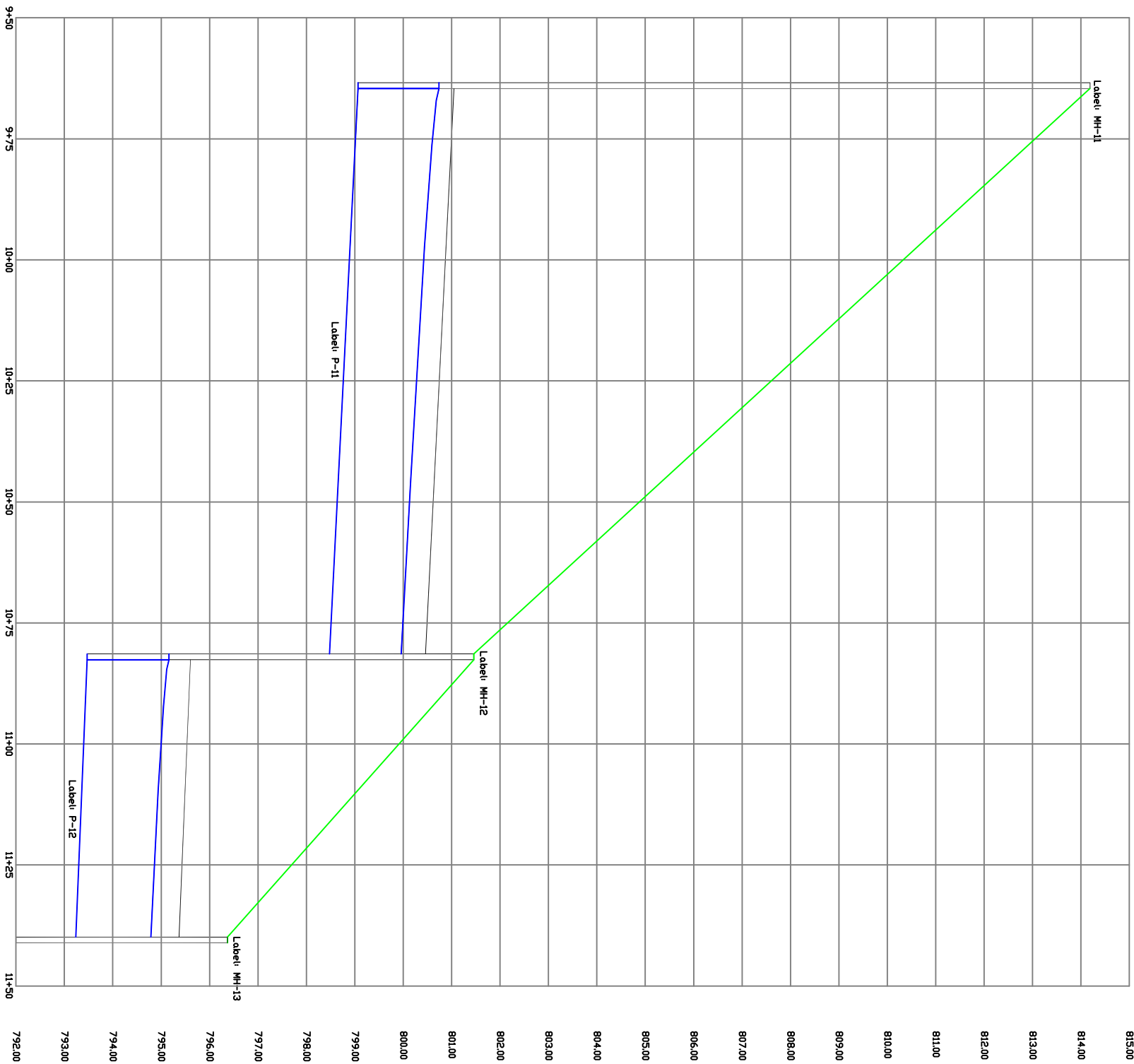
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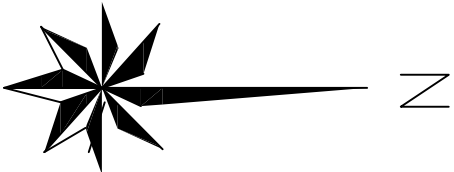
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Date :Dec/2014



POINT NUMBER	11	12	13
MANHOLE NUMBER	MH11	MH12	MH13
STATION	9+64	10+82	11+40.5
GROUND ELEVATOIN	814.19	801.46	796.37
INVERT ELEVATION	799.07	793.47	786.66
DEPTH OF MANHOLES	15.12	7.99	9.71
DISTANCE OF MANHLE (M)		118.0	58.5
PIPE DIAMETER (mm)		1950	2100
PIPE SLOPE (%)		0.5	0.4
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

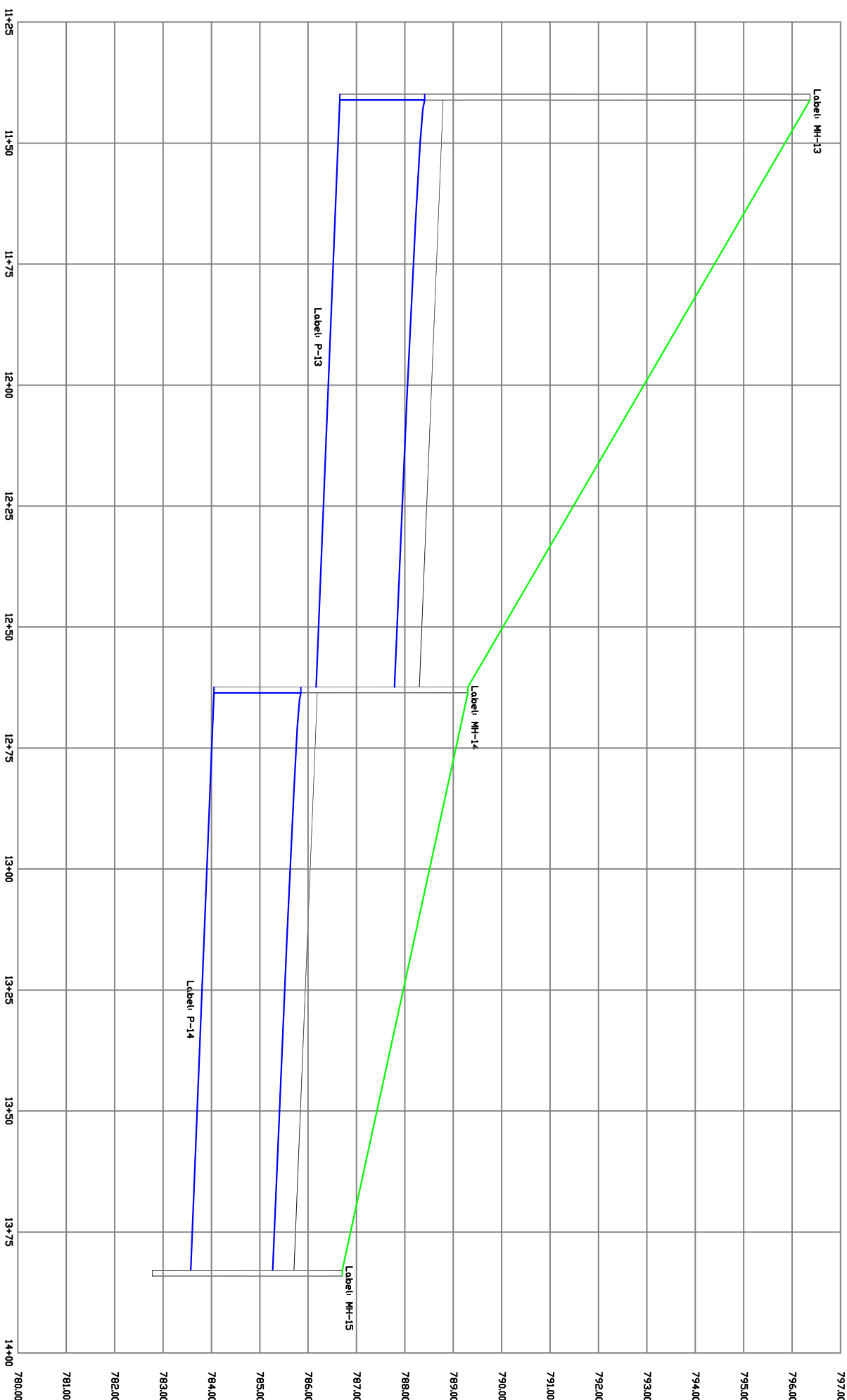
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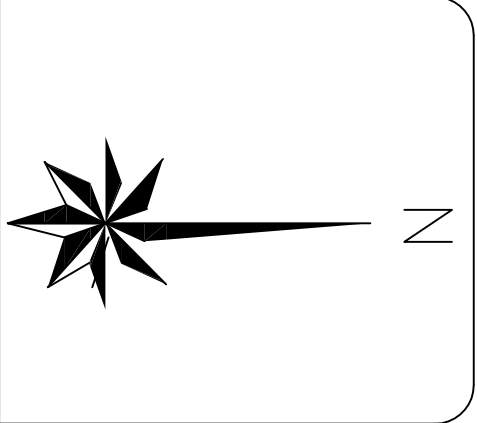
Fig 6

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POINT NUMBER	13	14	15
MANHOLE NUMBER	MH13	MH14	MH15
STATION	11+40.5	12+62.5	13+83.5
GROUND ELEVATOIN	796.37	789.30	786.71
INVERT ELEVATION	786.66	784.06	782.78
DEPTH OF MANHOLES	9.71	5.24	3.93
DISTANCE OF MANHLE (M)		122.5	120.5
PIPE DIAMETER (mm)		2100	2100
PIPE SLOPE (%)		0.4	0.4
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #L-7)

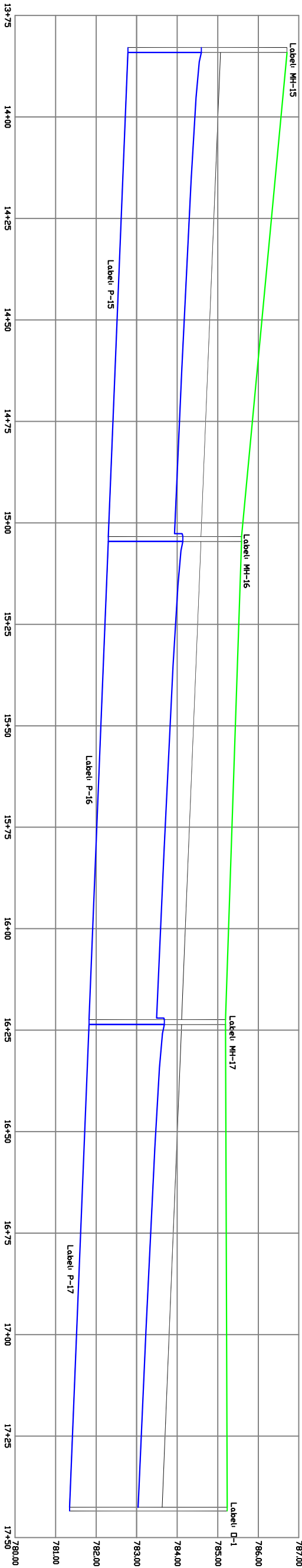
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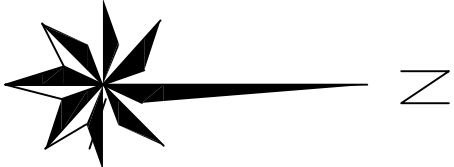
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Date :Dec/2014



POINT NUMBER	15	16	17	O_1
MANHOLE NUMBER	MH15	MH16	MH17	MHO_1
STATION	13+83.5	15+04	16+23	17+43
GROUND ELEVATION	786.71	785.59	785.19	785.23
INVERT ELEVATION	782.78	782.30	781.82	781.34
DEPTH OF MANHOLES	3.93	3.29	3.37	3.89
DISTANCE OF MANHLE (M)		120.5	119.0	120.0
PIPE DIAMETER (mm)		2250	2250	2250
PIPE SLOPE (%)		0.4	0.4	0.4
TYPE OF SURFACE	PVC	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)
- Ground Elevation —————
- Manholes —————
- Hydraulic Grade —————

Project Title:

Design alnajaour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line
(Main Line # 1_8)

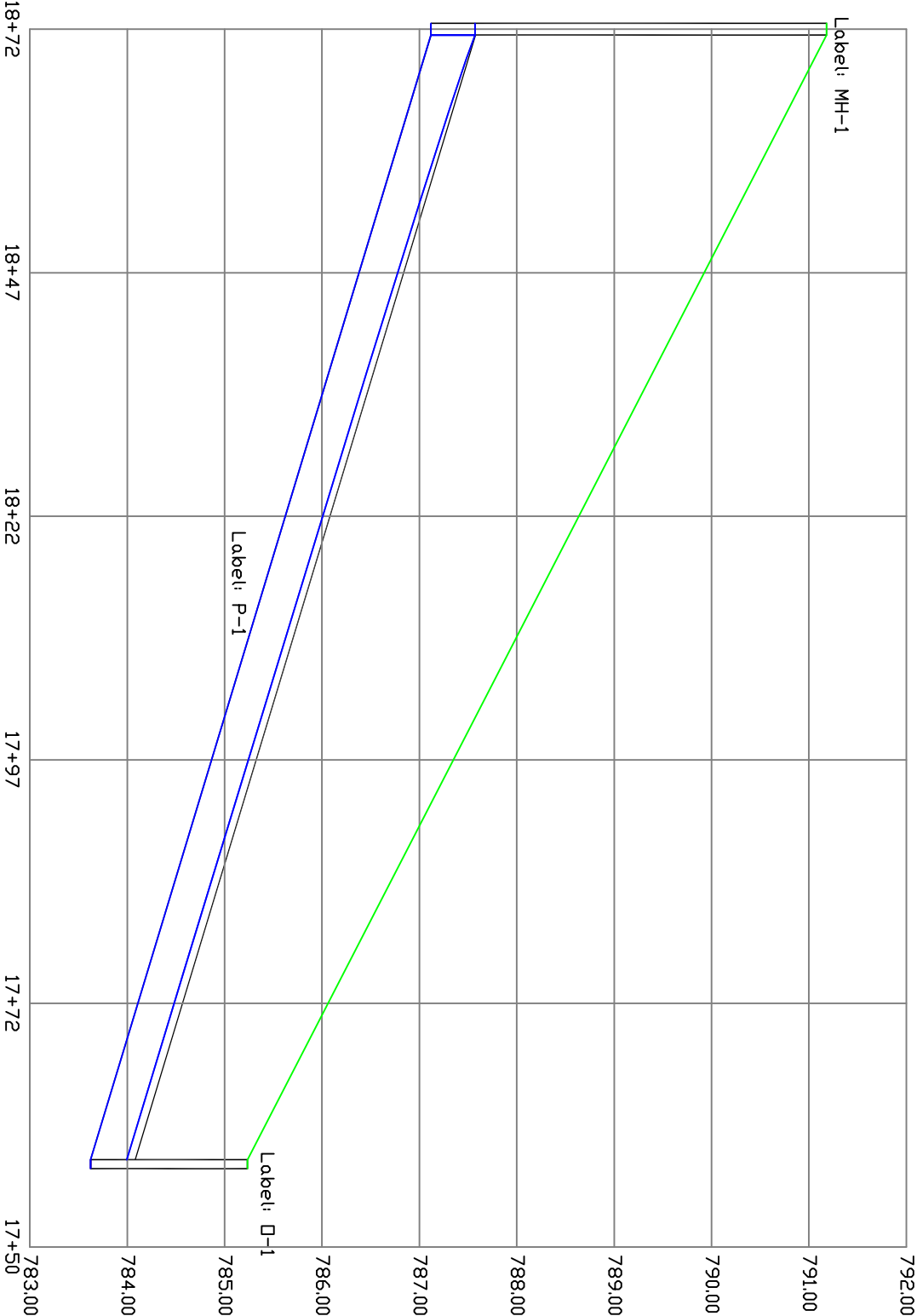
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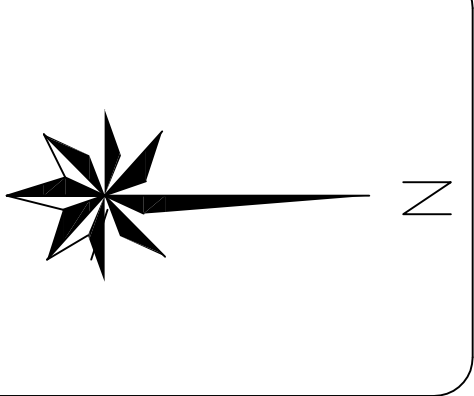
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Date :Dec/2014



POINT NUMBER	1	O_1
MANHOLE NUMBER	MH1	MHO_1
STATION	0+00	1+16.5
GROUND ELEVATOIN	791.18	785.23
INVERT ELEVATION	787.12	783.62
DEPTH OF MANHOLES	4.06	1.61
DISTANCE OF MANHLE (M)		116.5
PIPE DIAMETER (mm)		450
PIPE SLOPE (%)		3.0
TYPE OF SURFACE	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAW/AHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2_1)

Figure Number :

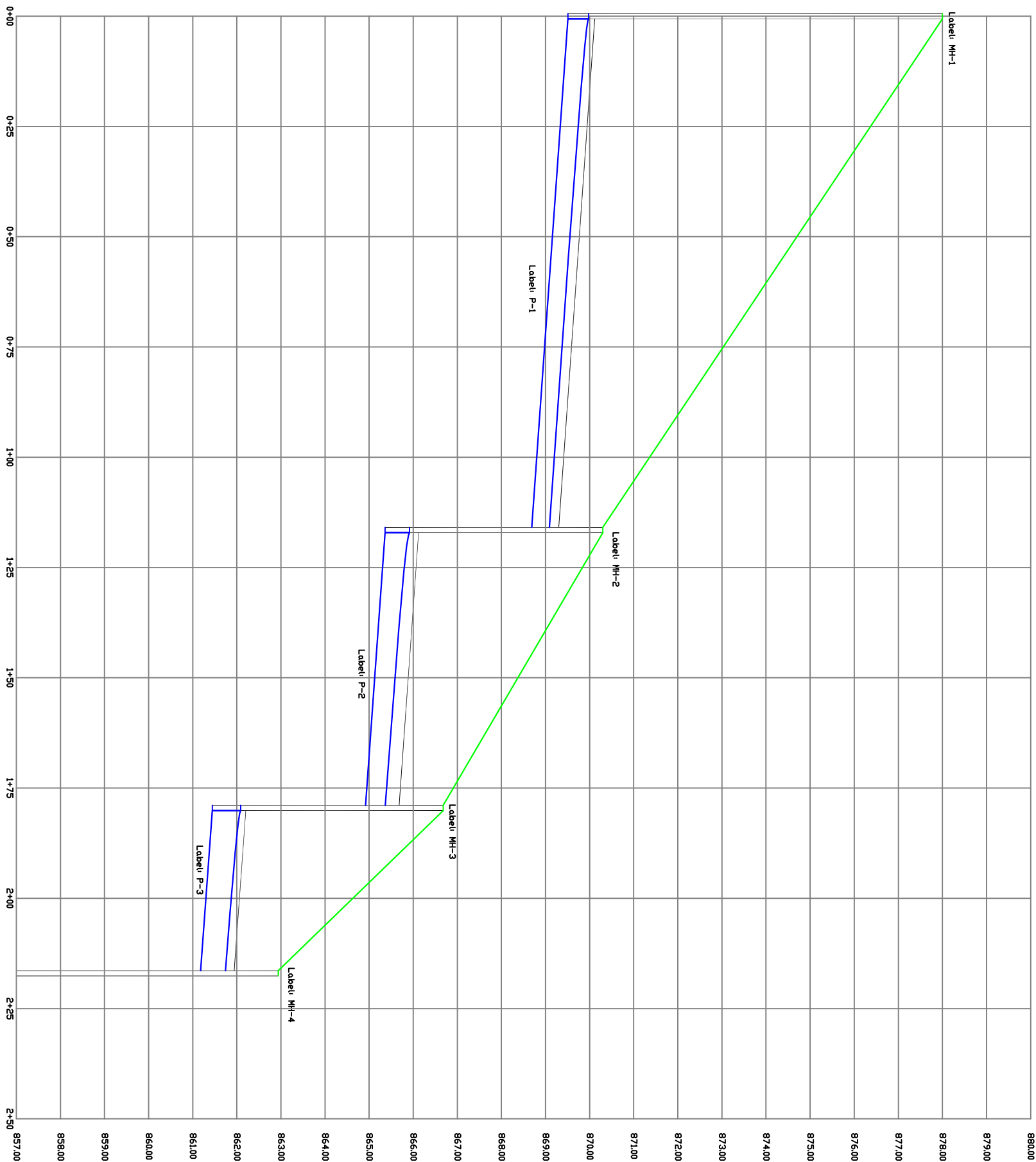
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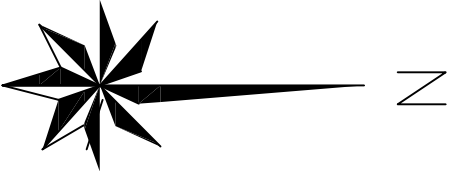
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Date :Dec/2014



POINT NUMBER	1	2	3	4
MANHOLE NUMBER	MH1	MH2	MH3	MH3
STATION	0+00	1+16.5	1+79.5	2+17
GROUND ELEVATOIN	878.00	870.30	866.68	862.94
INVERT ELEVATION	869.50	865.36	861.44	850.05
DEPTH OF MANHOLES	8.5	4.94	5.24	12.89
DISTANCE OF MANHLE (M)		116.50	63.00	37.50
PIPE DIAMETER (mm)		600	750	750
PIPE SLOPE (%)		0.7	0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
2- All Pipe length In (Meters)

- Ground Elevation —————
Manholes —————
Hydraulic Grade —————

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
EHAB SWEITY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2_2)

Figure Number :

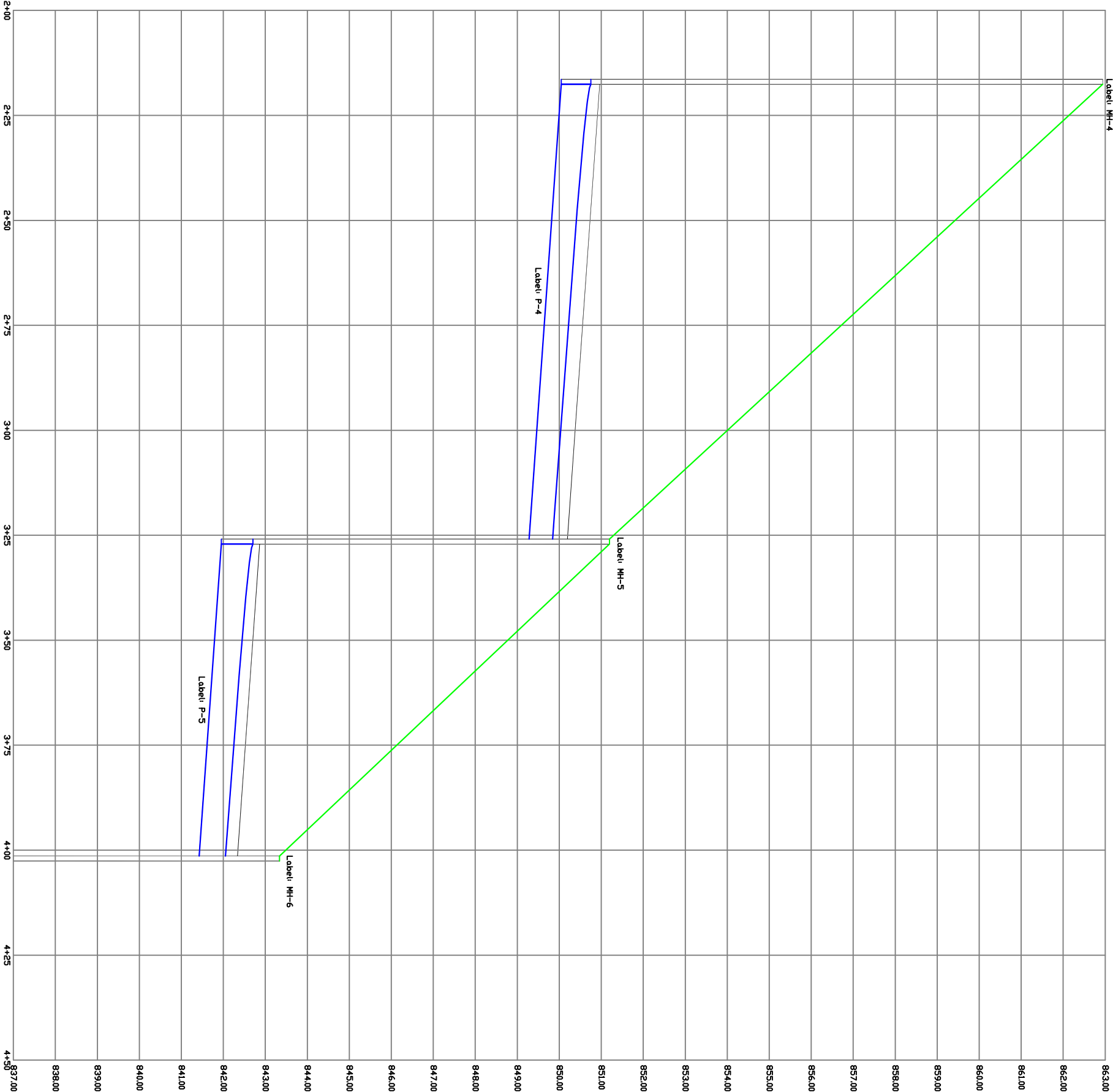
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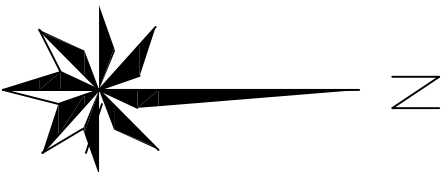
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Date :Dec/2014



POINT NUMBER	4	5	6
MANHOLE NUMBER	MH4	MH5	MH6
STATION	2+17	3+26.5	4+02
GROUND ELEVATION	862.94	851.20	843.34
INVERT ELEVATION	850.05	841.95	834.87
DEPTH OF MANHOLES	12.89	9.25	8.47
DISTANCE OF MANHLE (M)		109.50	75.50
PIPE DIAMETER (mm)		900	900
PIPE SLOPE (%)		0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

Ground Elevation
Manholes
Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2_3)

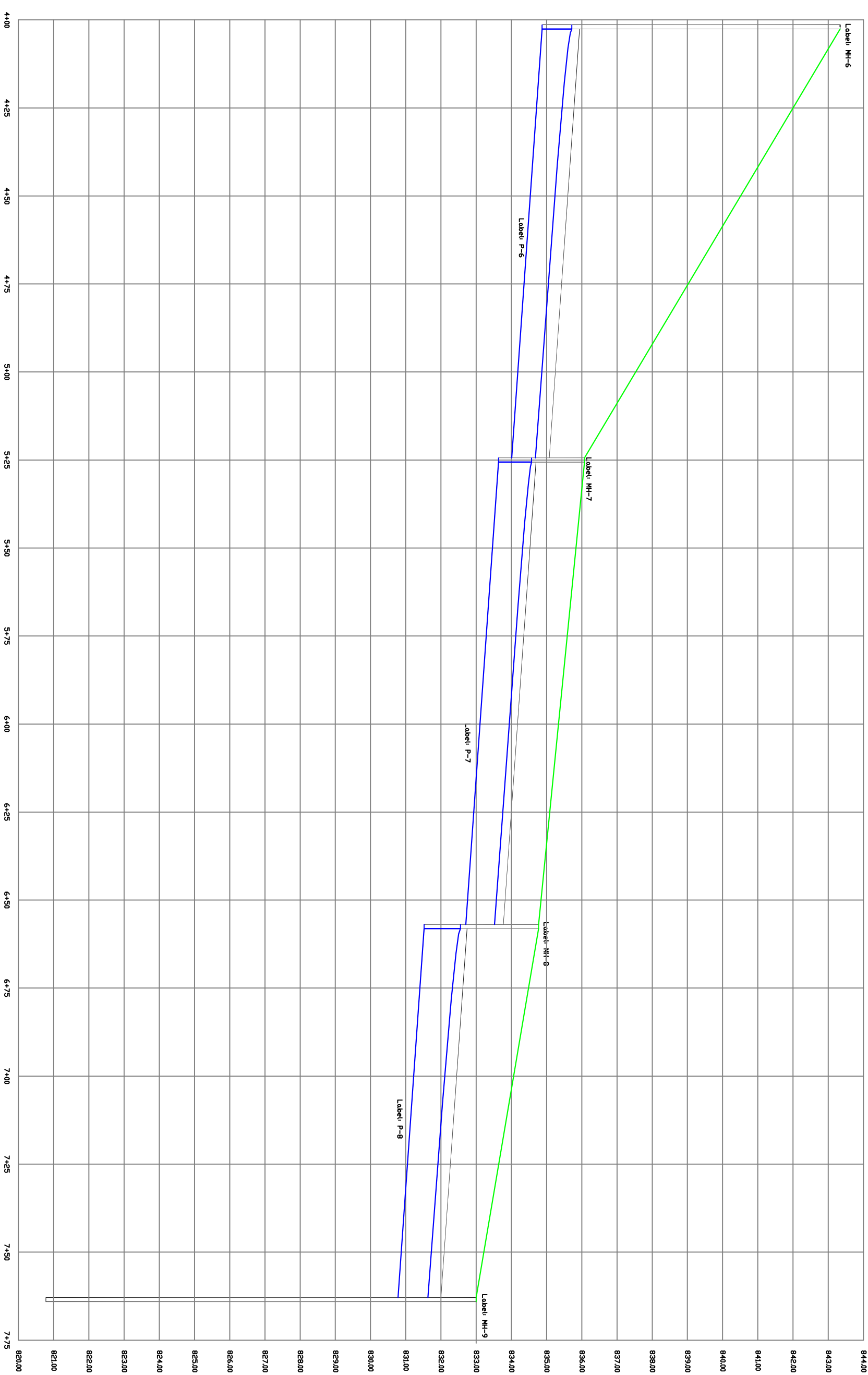
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Fig 11

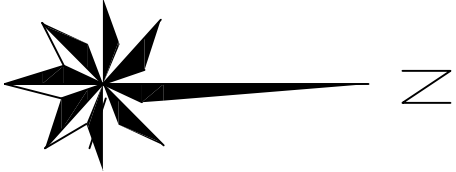
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Date :Dec/2014



POINT NUMBER	6	7	8	9
MANHOLE NUMBER	MH6	MH7	MH8	MH9
STATION	4+02	5+25	6+57.5	7+63.5
GROUND ELEVATOIN	843.34	836.08	834.77	833.00
INVERT ELEVATION	834.87	833.63	831.52	820.78
DEPTH OF MANHOLES	8.47	2.45	3.25	12.22
DISTANCE OF MANHLE (M)		123.0	132.50	106.0
PIPE DIAMETER (mm)		1050	1050	1200
PIPE SLOPE (%)		0.7	0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAW/AHDA
EHAB SWIETY
MALEK ALSHAREEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2_4)

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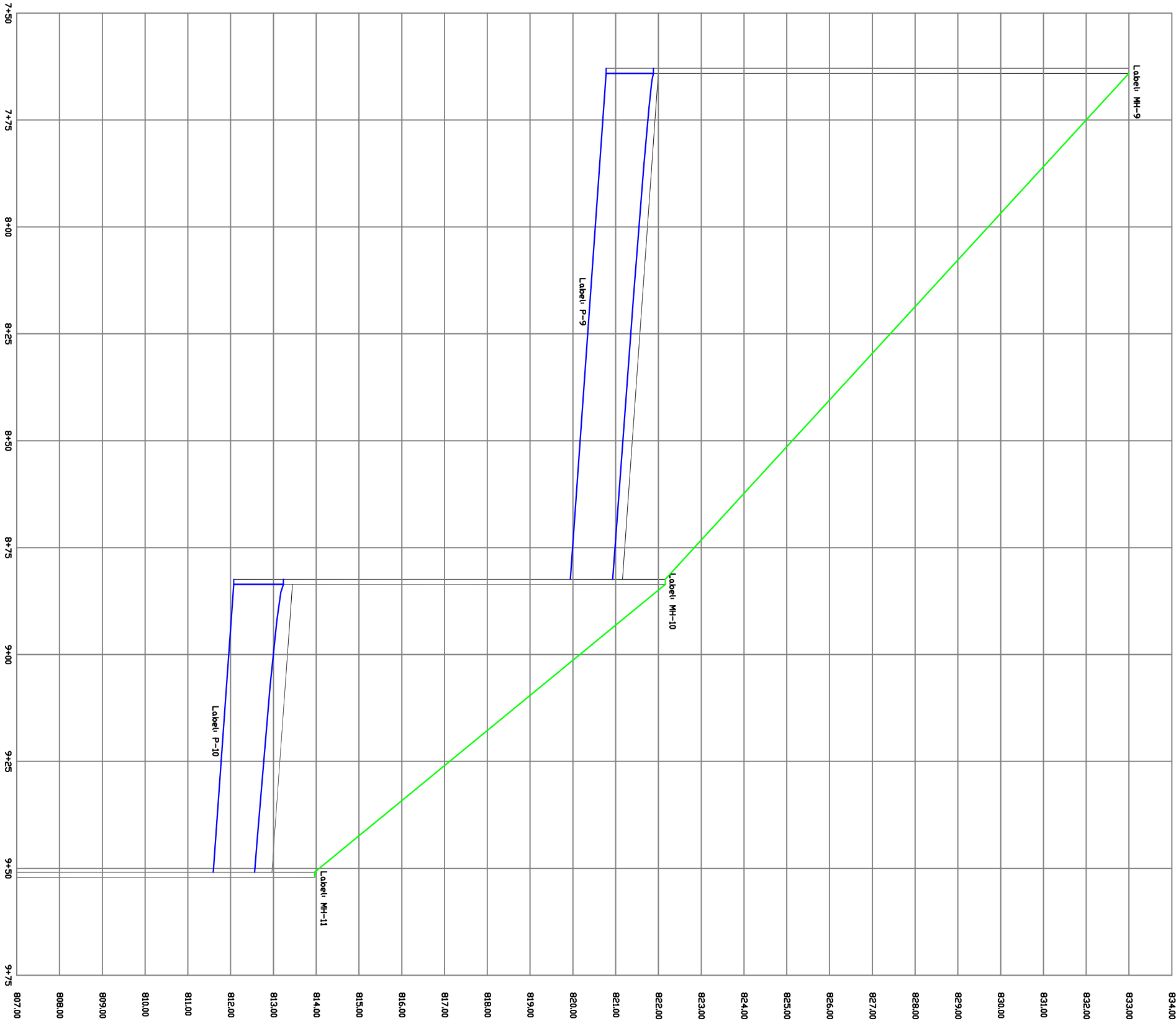
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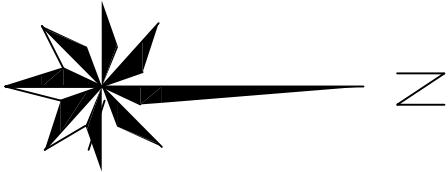
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Date :Dec/2014



POINT NUMBER	9	10	11
MANHOLE NUMBER	MH9	MH10	MH11
STATION	7+63.5	8+83	9+51.5
GROUND ELEVATOIN	833.0	822.16	813.96
INVERT ELEVATION	820.78	812.07	799.87
DEPTH OF MANHOLES	12.22	10.07	14.09
DISTANCE OF MANHLE (M)		119.50	68.50
PIPE DIAMETER (mm)		1200	1350
PIPE SLOPE (%)		0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almaiour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2_5)

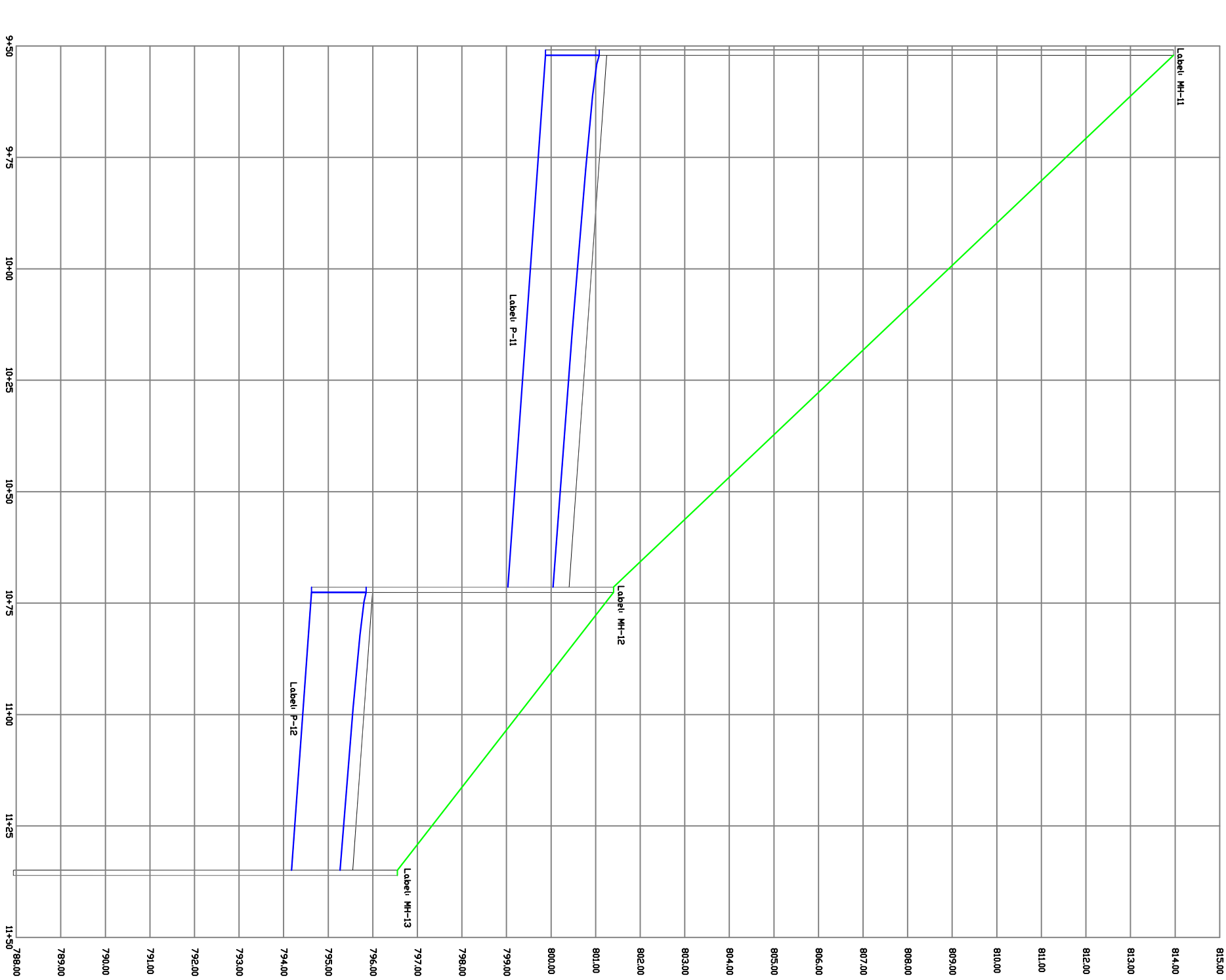
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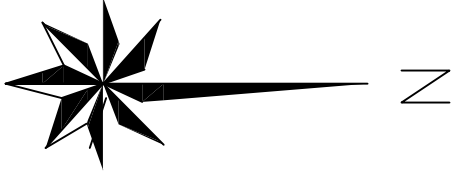
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Date :Dec/2014



POINT NUMBER	11	12	13
MANHOLE NUMBER	MH11	MH12	MH13
STATION	9+51.5	10+72	11+35.5
GROUND ELEVATION	813.96	801.40	796.55
INVERT ELEVATION	799.87	794.62	787.94
DEPTH OF MANHOLES	14.09	6.78	8.61
DISTANCE OF MANHLE (M)		120.5	63.50
PIPE DIAMETER (mm)		1350	1350
PIPE SLOPE (%)		0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

Project Team:

AHMAD NAWAHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2.6)

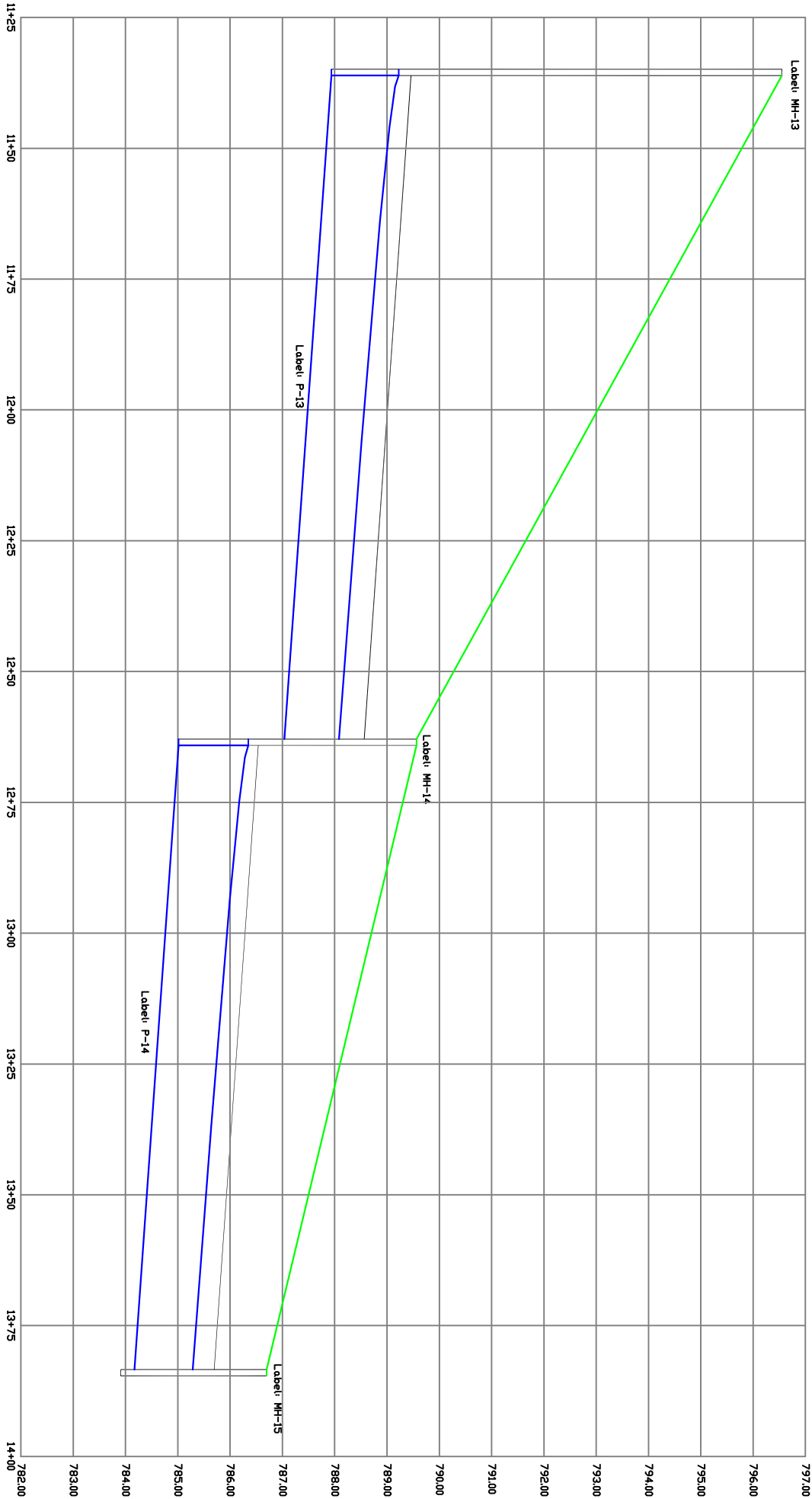
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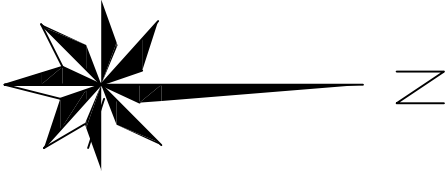
Scale : To fit Page Number:

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Date :Dec/2014



POINT NUMBER	13	14	15
MANHOLE NUMBER	MH13	MH14	MH15
STATION	11+35.5	12+63.5	13+84
GROUND ELEVATION	796.55	789.56	786.70
INVERT ELEVATION	787.94	785.02	783.91
DEPTH OF MANHOLES	8.61	4.54	2.79
DISTANCE OF MANHOLE (M)		128.5	120.5
PIPE DIAMETER (mm)		1500	1500
PIPE SLOPE (%)		0.7	0.7
TYPE OF SURFACE	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

project title :

Design almajour street

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AHMAD NAW/AHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line (Main Line #2_7)

Figure Number :

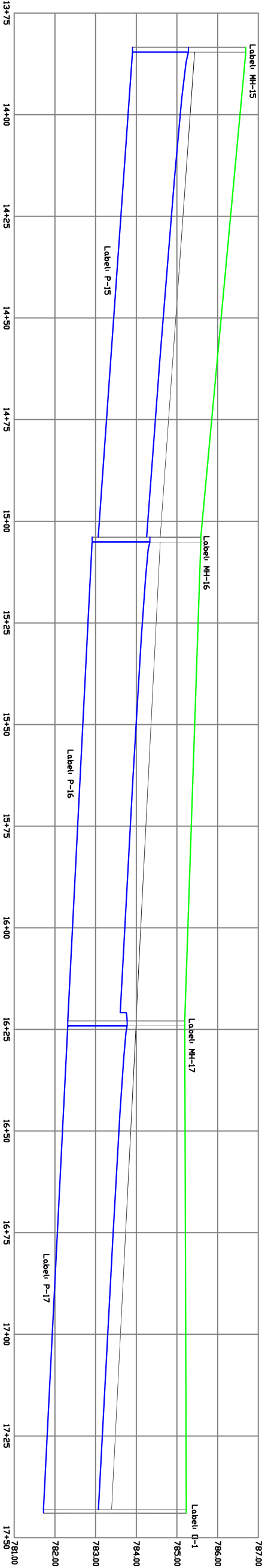
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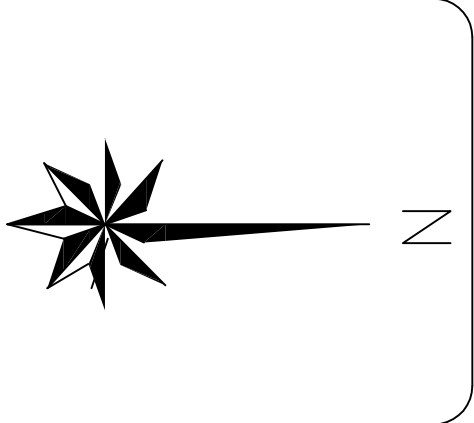
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Date :Dec/2014



POINT NUMBER	15	16	17	O_1
MANHOLE NUMBER	MH15	MH16	MH17	MH18
STATION	13+84	15+04.5	16+23.5	17+43.5
GROUND ELEVATION	786.70	785.59	785.19	785.23
INVERT ELEVATION	783.91	782.91	782.32	781.72
DEPTH OF MANHOLES	2.79	2.68	2.87	3.51
DISTANCE OF MANHLE (M)		120.50	119.0	120.0
PIPE DIAMETER (mm)		1500	1650	1650
PIPE SLOPE (%)		0.7	0.5	0.5
TYPE OF SURFACE	PVC	PVC	PVC	PVC



NOTES:

- 1- All Pipe Diameter In (mm)
- 2- All Pipe length In (Meters)

- Ground Elevation
- Manholes
- Hydraulic Grade

Project Title:

Design almajour street

Project Team:

AHMAD NAW/AHDA
EHAB SWIETY
MALEK ALSHARIEH

Project Supervisor:

FAYDI SHABANEH

Drawing Title :

The Profile Of Sewer Line
(Main Line # 2,8)

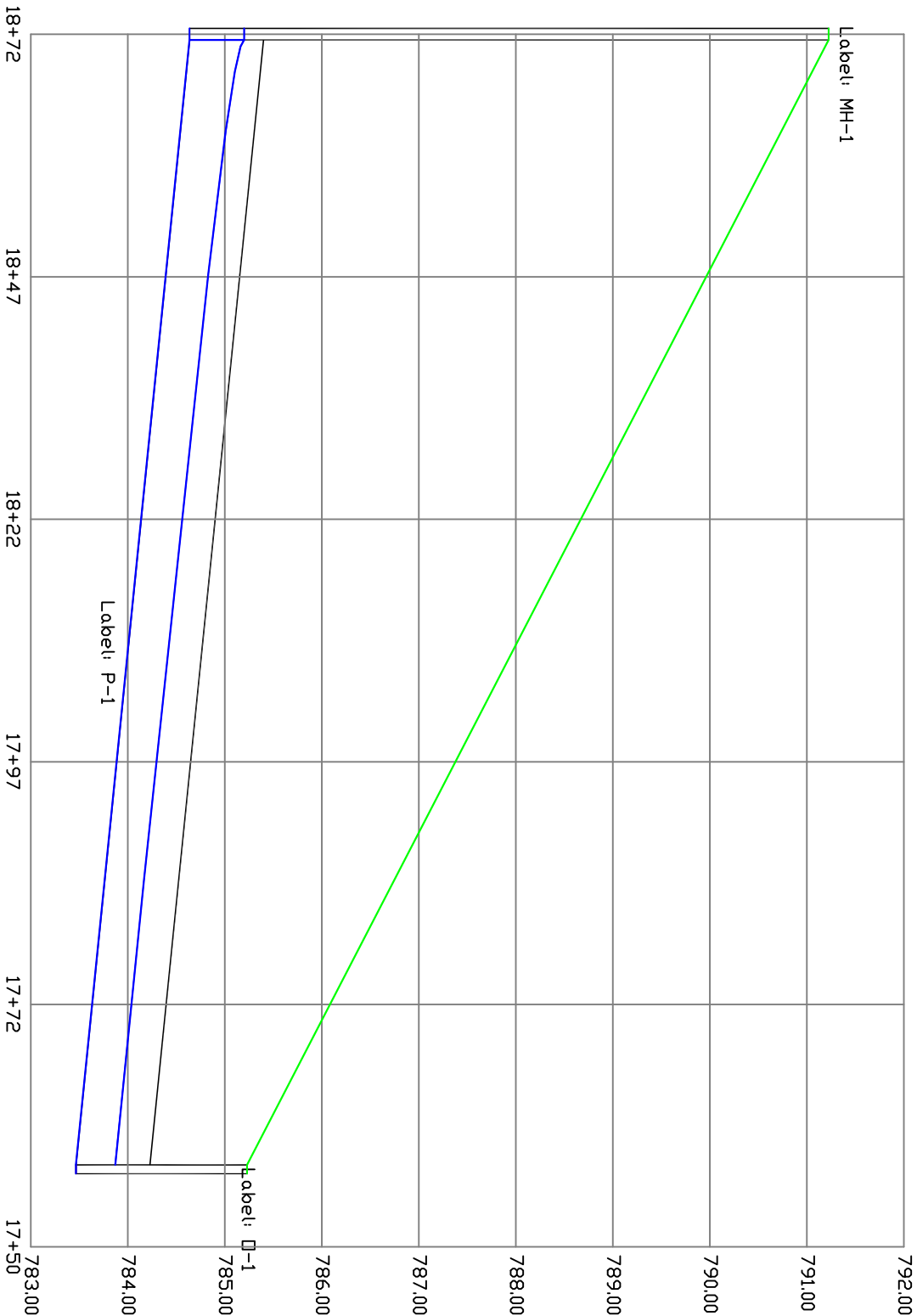
Figure Number :

Fig 16

Scale :To fit

Page Number::
16

Date :Dec/2014



POINT NUMBER	1	O_1
MANHOLE NUMBER	MH1	MHO_1
STATION	0+00	1+17
GROUND ELEVATOIN	791.22	785.23
INVERT ELEVATION	784.64	783.47
DEPTH OF MANHOLES	2.23	7.4
DISTANCE OF MANHLE (M)		117.0
PIPE DIAMETER (mm)		750
PIPE SLOPE (%)		1.0
TYPE OF SURFACE	PVC	PVC