

# WATER DISTRIBUTION NETWORK DRAWINGS

## PROJECT:

SUPPLY, INSTALLATION AND CONSTRUCTION OF A WATER DISTRIBUTION NETWORK FOR AL-NAHDEEN AREA

SANA'A CITY - YEMEN

## FUNDED BY:

WORLD BANK GROUP

CONTRACT NO: IUS-AF-UWS-SAN-021

DWG NO.	D R A W I N G   T I T L E
G-01	COVER SHEET
	LIST OF DRAWINGS
GP-01	KEY MAP/ CONTRACT BOUNDARY
GP-02	WATER DISTRIBUTION NETWORK, GENERAL LAYOUT

## WATER DISTRIBUTION NETWORK LAYOUT

PL-01	WATER DISTRIBUTION NETWORK LAYOUT	(1 OF 8)
PL-02	WATER DISTRIBUTION NETWORK LAYOUT	(2 OF 2)
PL-03	WATER DISTRIBUTION NETWORK LAYOUT	(3 OF 8)
PL-04	WATER DISTRIBUTION NETWORK LAYOUT	(4 OF 8)
PL-05	WATER DISTRIBUTION NETWORK LAYOUT	(5 OF 8)
PL-06	WATER DISTRIBUTION NETWORK LAYOUT	(6 OF 8)
PL-07	WATER DISTRIBUTION NETWORK LAYOUT	(7 OF 8)
PL-08	WATER DISTRIBUTION NETWORK LAYOUT	(8 OF 8)



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LEGEND:

- DN 300 DI. PRIMARY PIPE
- DN 250 HOPE. PRIMARY PIPE
- DN 180 HOPE. DISTRIBUTION PIPE
- DN 125 HOPE. DISTRIBUTION PIPE
- DN 90 HOPE. DISTRIBUTION PIPE
- DN 63 HOPE. DISTRIBUTION PIPE
- EXISTING PIPE
- ISOLATION VALVE
- DN 63 FERRULE WITH ISOLATION VALVE
- EXISTING ISOLATING VALVE
- FIRE HYDRANT
- EXISTING FIRE HYDRANT
- WASHOUT OR AIR VALVE CHAMBER
- CONNECTION OF PIPE
- DISCONNECTION OF PIPE
- FLOW METER
- REDUCER
- BLIND FLANGE/ END PLUG
- CONNECTION TYPE 1 (DRG. NO. STD-09)
- CONNECTION TYPE 2 (DRG. NO. STD-09)

NOTE:  
SERVICE CONNECTION PIPES ARE NOT SHOWN ON  
DRAWINGS. EXACT LOCATION OF CONNECTIONS ARE  
TO BE DETERMINED ON SITE



**Project Name**  
Al-Nahdeen Water Distribution Network

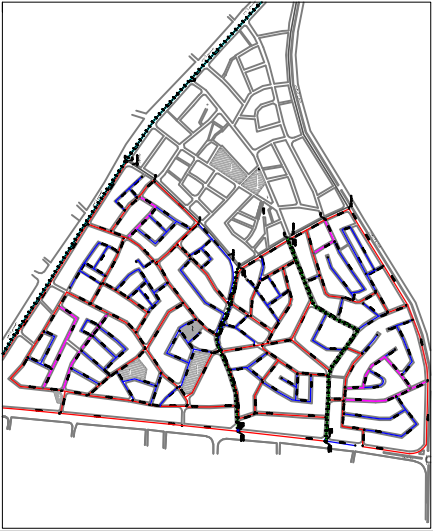
**Drawing Title**  
General Layout

<b>Designed By:</b> Eng. Ameen Al-Maweri	<b>Drawing No.:</b> G-01
<b>Reviewed By:</b> Eng. Fares Hubaish	<b>Scale:</b> As Shown
<b>Approved By:</b> Eng. Mohammed Al-Maqdami	
<b>Contract No</b> (IUS-AF-UWS-SAN-021)	<b>Date</b> 2023





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LEGEND:

- DN 300 DI, PRIMARY PIPE
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- FIRE HYDRANT
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Project Name

Al-Nahdeen Water Distribution Network

Drawing Title

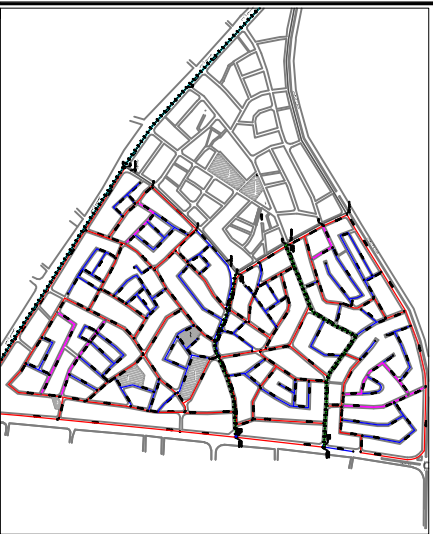
CONTRACT BOUNDARY

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	GP-01
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Magdami		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023





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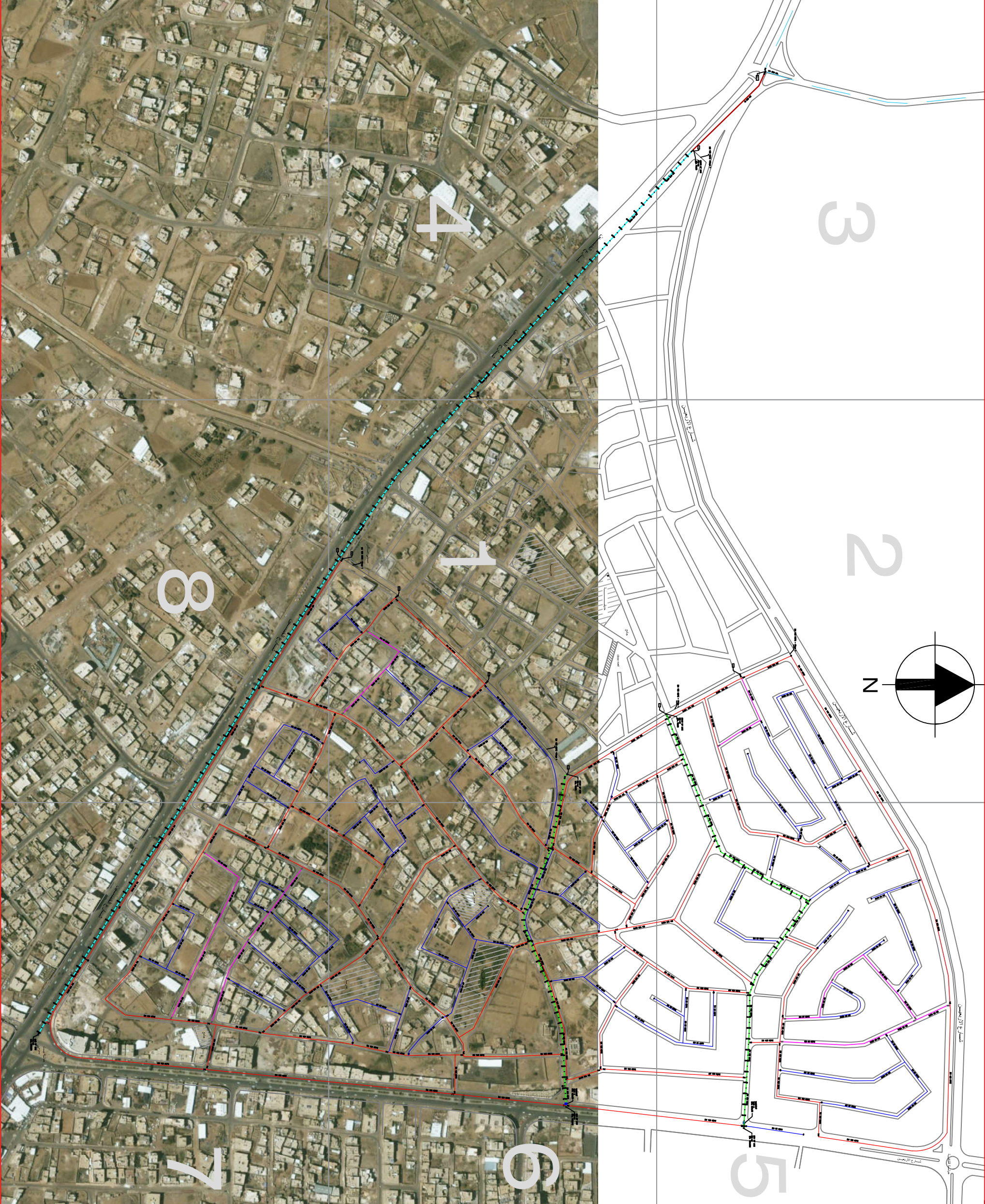
Project Name

Al-Nahdeen Water Distribution Network

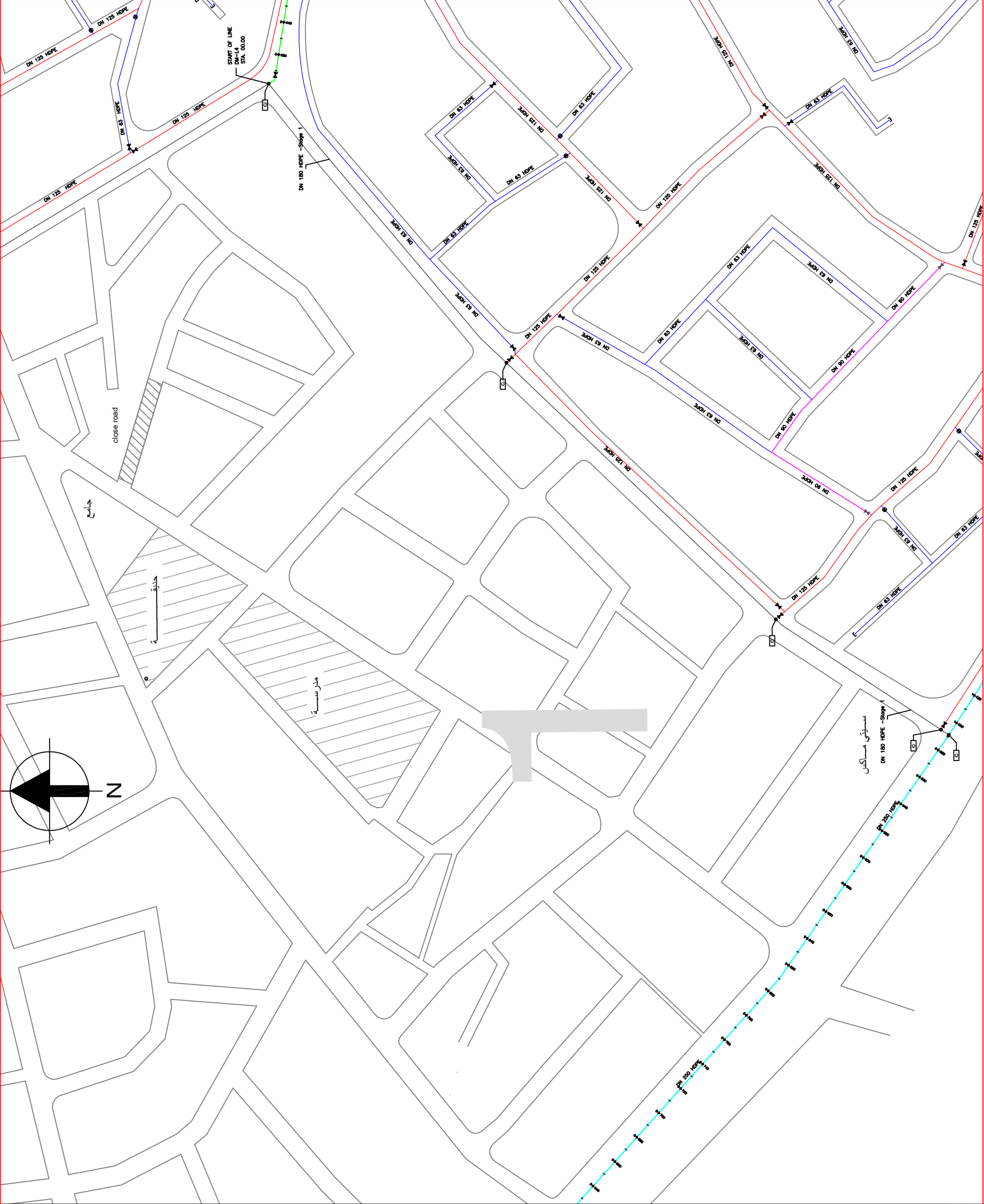
Drawing Title


General Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No. GP-02
Reviewed By:	Eng. Fares Hubaish	Scale As Shown
Approved By:	Eng. Mohammed Al-Magdami	
Contract No	(IUS-AF-UWS-SAN-021)	Date 2023










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LEGEND:

DN 300 DI PRIMARY PIPE

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DN 63 HOPE DISTRIBUTION PIPE

EXISTING PIPE

ISOLATION VALVE

DN 63 FERRULE WITH ISOLATION VALVE

EXISTING ISOLATING VALVE

FIRE HYDRANT

EXISTING FIRE HYDRANT

WASHOUT OR AIR VALVE CHAMBER

CONNECTION OF PIPE

DISCONNECTION OF PIPE

FLOW METER

REDUCER



BLIND FLANGE/ END PLUG

CONNECTION TYPE 1 (DRG. NO. STD-09)

CONNECTION TYPE 2 (DRG. NO. STD-09)

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Project Name

Al-Nahdeen Water Distribution Network





















Drawing Title

Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No. 9 PL-01
Reviewed By:	Eng. Fares Hubaish	Scale As Shown
Approved By:	Eng. Mohammed Al-Maqdami	
Contract No	(IUS-AF-UWS-SAN-021)	Date 2023



LEGEND:

- |   |                                     |
|---|-------------------------------------|
|    | DN 300 DI. PRIMARY PIPE             |
|    | DN 250 HOPE. PRIMARY PIPE           |
|    | DN 180 HOPE. DISTRIBUTION PIPE      |
|    | DN 125 HOPE. DISTRIBUTION PIPE      |
|    | DN 90 HOPE. DISTRIBUTION PIPE       |
|    | DN 63 HOPE. DISTRIBUTION PIPE       |
|    | EXISTING PIPE                       |
|    | ISOLATION VALVE                     |
|    | DN 63 FERRULE WITH ISOLATION VALVE  |
|    | EXISTING ISOLATING VALVE            |
|    | FIRE HYDRANT                        |
|    | EXISTING FIRE HYDRANT               |
|    | WASHOUT OR AIR VALVE CHAMBER        |
|    | CONNECTION OF PIPE                  |
|    | DISCONNECTION OF PIPE               |
|    | FLOW METER                          |
|   | REDUCER                             |
|  | BLIND FLANGE / END PLUG             |
|  | CONNECTION TYPE 1 (ARG. NO. STD-09) |
|  | CONNECTION TYPE 2 (ARG. NO. STD-09) |

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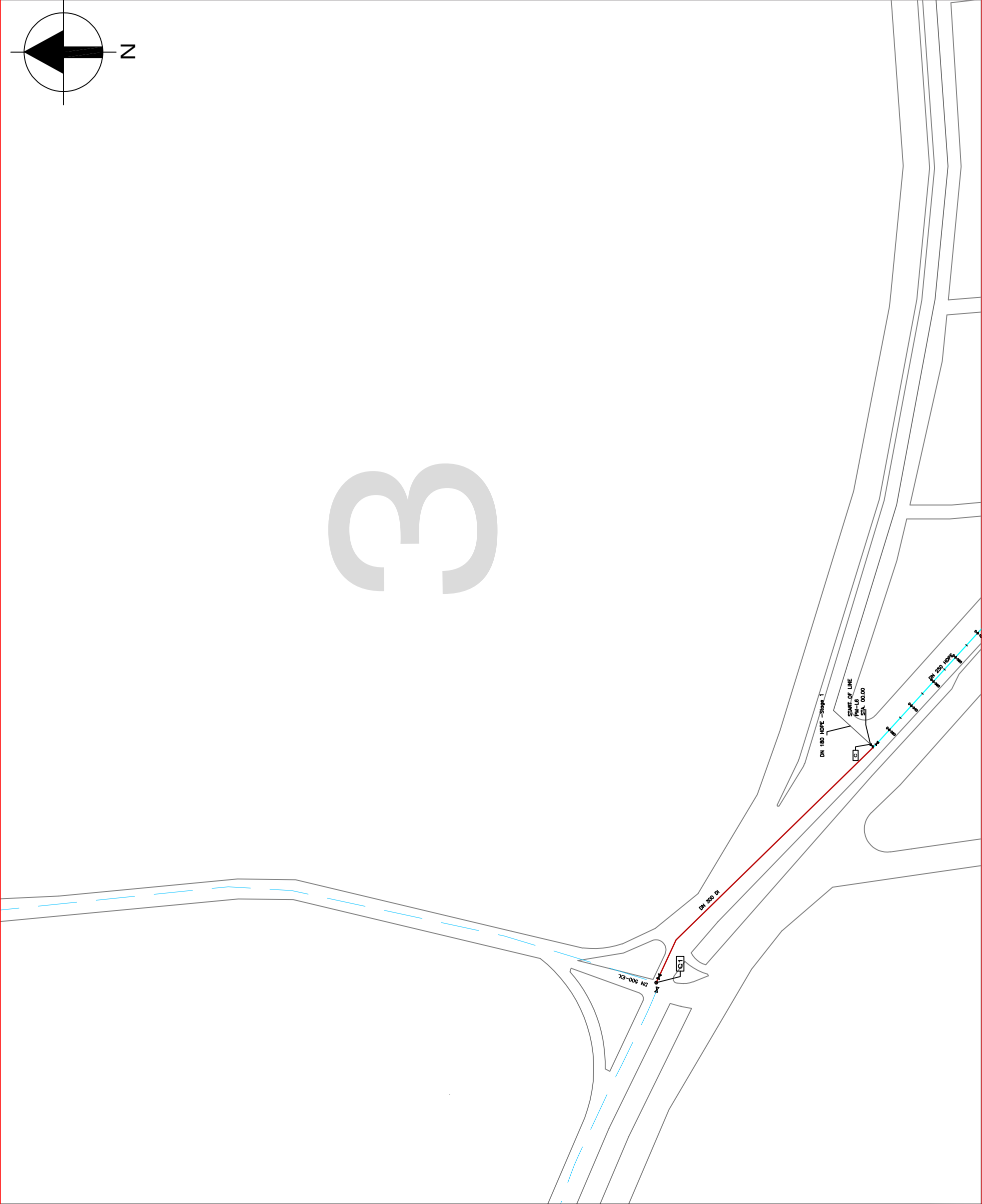
Project Name

# Al-Nahdeen Water Distribution Network

## Drawing Title

# Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	PL-02
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Maqdami	Date	2023
Contract No	(IUS-AF-UWS-SAN-021)		





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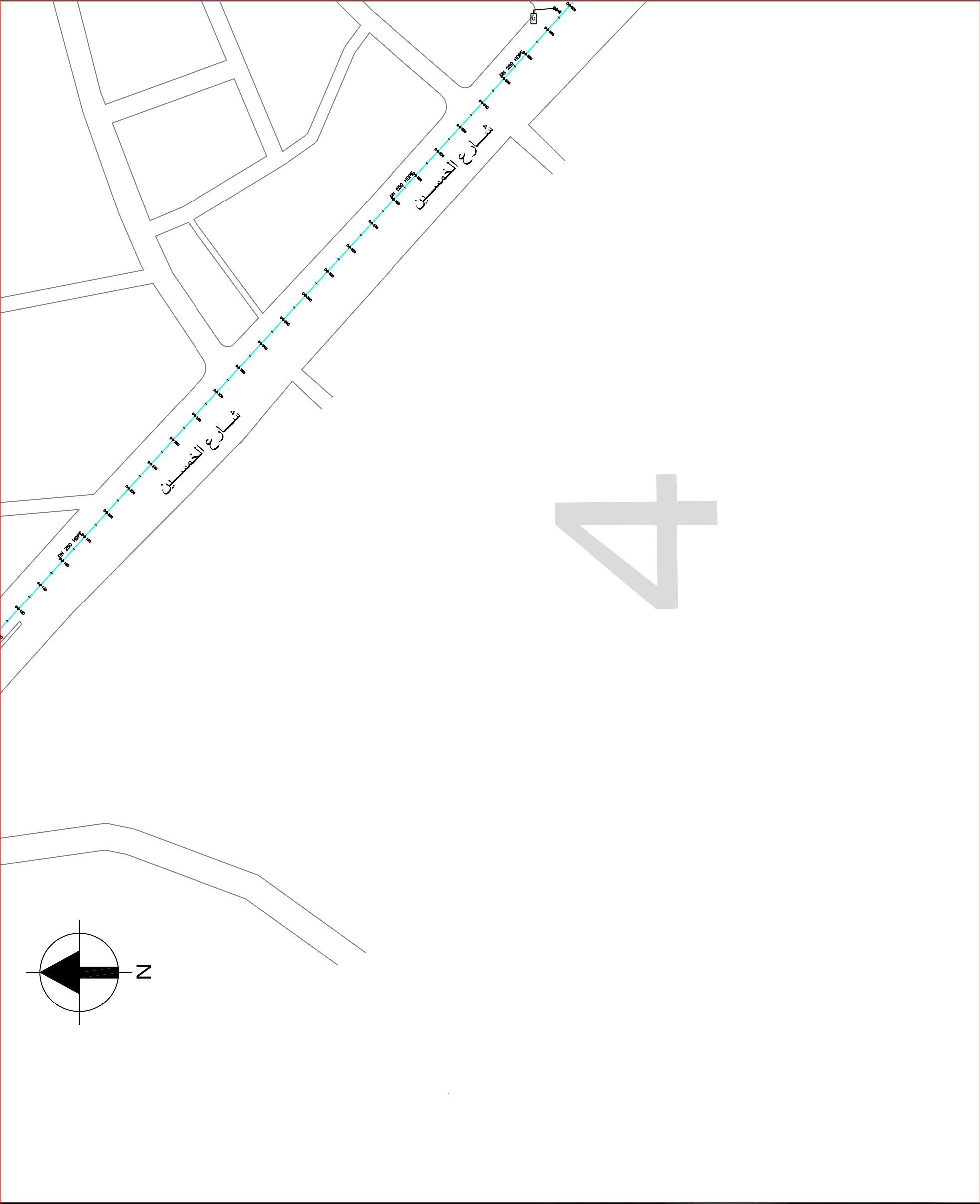
**Project Name**


Al-Nahdeen Water Distribution Network

**Drawing Title**


Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	PL-03
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Maqdami		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023





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LEGEND:

- DN 300 DI. PRIMARY PIPE
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**Project Name**

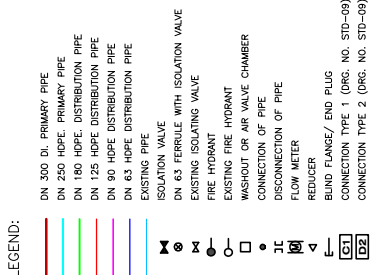
Al-Nahdeen Water Distribution Network

**Drawing Title**

Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	PL-04
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Maqdami		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023





SERVICE CONNECTION PIPES ARE NOT SHOWN ON DRAWINGS, EXACT LOCATION OF CONNECTIONS ARE TO BE DETERMINED ON SITE

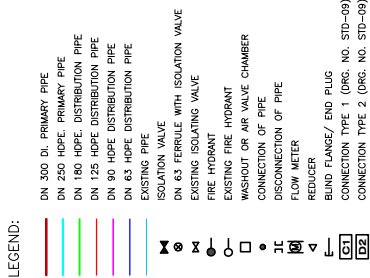


# Al-Nahdeen Water Distribution Network

# Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No. PL-05 As Shown
Reviewed By:	Eng. Fares Hubaish	
Approved By:	Eng. Mohammed Al-Maqdami	
Contract No	(IUS-AF-UWS-SAN-021)	Date 2023





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# Al-Nahdeen Water Distribution Network

# Water Distribution Network Layout


Designed By:	Eng. Ameen Al-Maweri	Drawing No. PL-06 Scale As Shown
Reviewed By:	Eng. Fares Hubaish	
Approved By:	Eng. Mohammed Al-Maqdami	
Contract No	(IUS-AF-UWS-SAN-021)	Date 2023







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- LEGEND:
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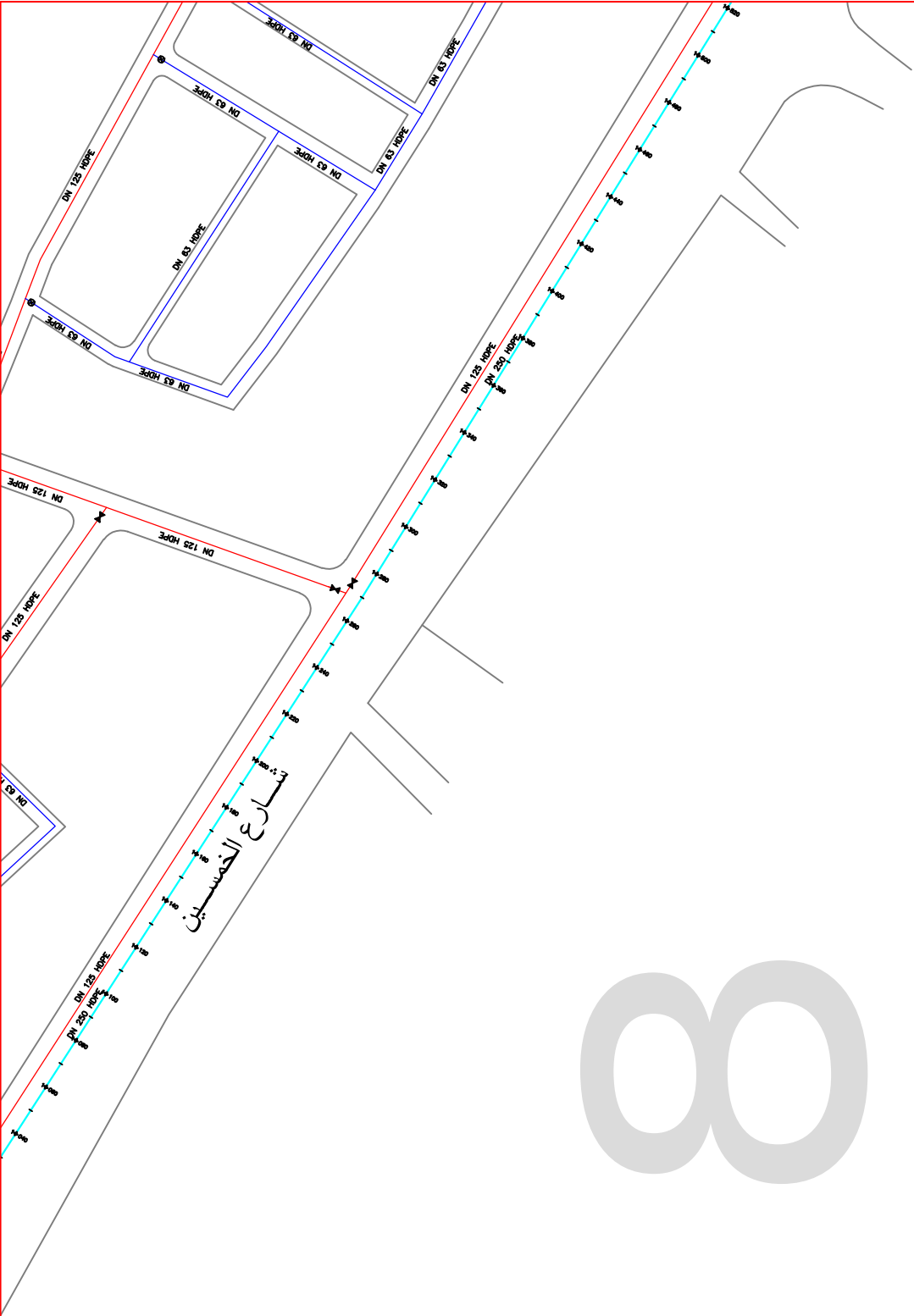
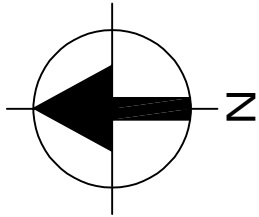


**Project Name**  
Al-Nahdeen Water Distribution Network

**Drawing Title**  
Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	PL-07
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Maqdami		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023





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LEGEND:

- DN 300 DI. PRIMARY PIPE
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Project Name

Al-Nahdeen Water Distribution Network

Drawing Title

Water Distribution Network Layout

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	PL-08
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Maqdami		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023