

Word Vision Afghanistan
DAWAM-WASH
Faryab Zonal office
Design of Water Supply Project

Project Name: Gravity Water Supply System of Badga village Gurziwan District

Province: Faryab
District: Gurziwan
Village: Badga



Ansar Kazimi



boxSIGN 18L933W6-42VR78YZ

Aug 12, 2024

Yama Hewadmal

Yama Hewadmal

box SIGN 4YWZR85Q-42VR78YZ

Aug 12, 2024

Farooq Jawid

Farooq Jawid

boxSIGN 1JRW5XYR-4ZVR78Y

Aug 13, 2024



Survey Plan of Gravity Pipe Scheme

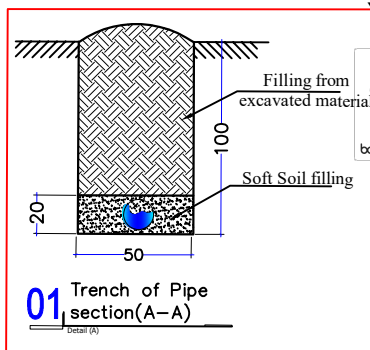


HDPE 75 mm PN10	_____
HDPE 63 mm PN10	_____
HDPE 50 mm PN10	_____
HDPE 40 mm PN10	_____

LEGEND		
1	Spring Protection Box	
2	Break Pressure Box	
3	Reservoir	
4	Pressure Reducing Valve	
5	New Pipe Line	
6	Flow Control Valve	
7	Population	784

Work Summary

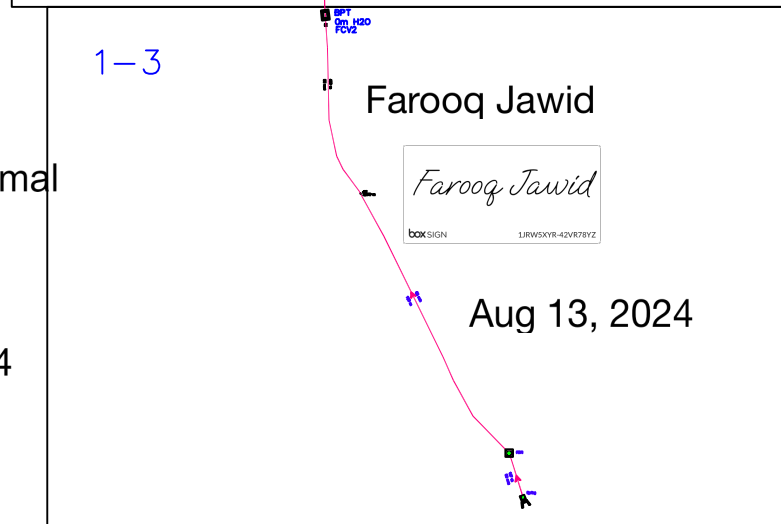
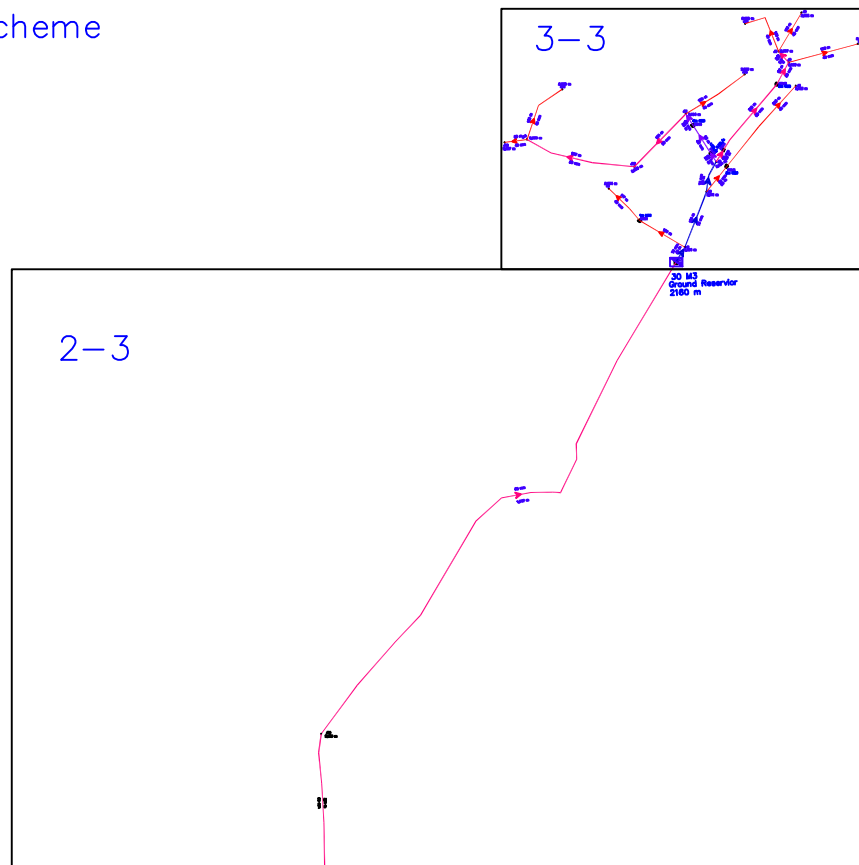
1. Construction of Spring Protection
2. Construction of 30 cum Stone masonry Reservoir
3. Construction of 1 No Pressure Reducing Box
4. Construction of 8 No Box For PRV and FCV
5. Installation of Transmission and distribution pipe
6. Construction of 70 NO house connection



Yama Hewadmal

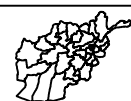
Yama Hewadmal
boxSIGN 4YWZ885Q-42VR78YZ

Aug 12, 2024



Point Table				
Point #	Elevation	Northing	Easting	Description
1429	2341	35°30'29.35"N	65°09'50.39"E	Existing Spring
1388	2160	35°31'50.51"N	65°10'06.26"E	Proposed Reservoir Break
1386	2246	35° 31'5.56"N	65°09'33.39"E	Pressure Tank
1386	2246	35° 31'5.56"N	65°09'33.39"E	FCV 2
1423	2124	35°31'53.6"N	65°10'3.09"E	PRV 1
1400	2135	35°31'57.45"N	65°10'11.0"E	PRV 2
1406	2111	35°32'3.43"N	65°10'15.7"E	PRV 3
1387	2110	35°32'0.54"N	65°10'08.07"E	PRV 4
1366	2341	35°30'29.35"N	65°09'50.39"E	FCV 1
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 4
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 3

Node ID, Elevation (m), Length (m), Diameter (mm)



Site Plan of Gravity Pipe Scheme

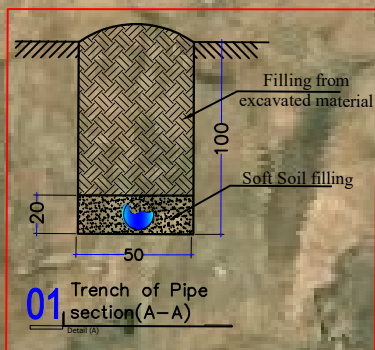


HDPE 75 mm PN10	_____
HDPE 63 mm PN10	_____
HDPE 50 mm PN10	_____
HDPE 40 mm PN10	_____

LEGEND		
1	Spring Protection Box	
2	Break Pressure Box	
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Work Summary

1. Construction of Spring Protection
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5. Installation of Transmission and distribution pipe
6. Construction of 70 NO house connection

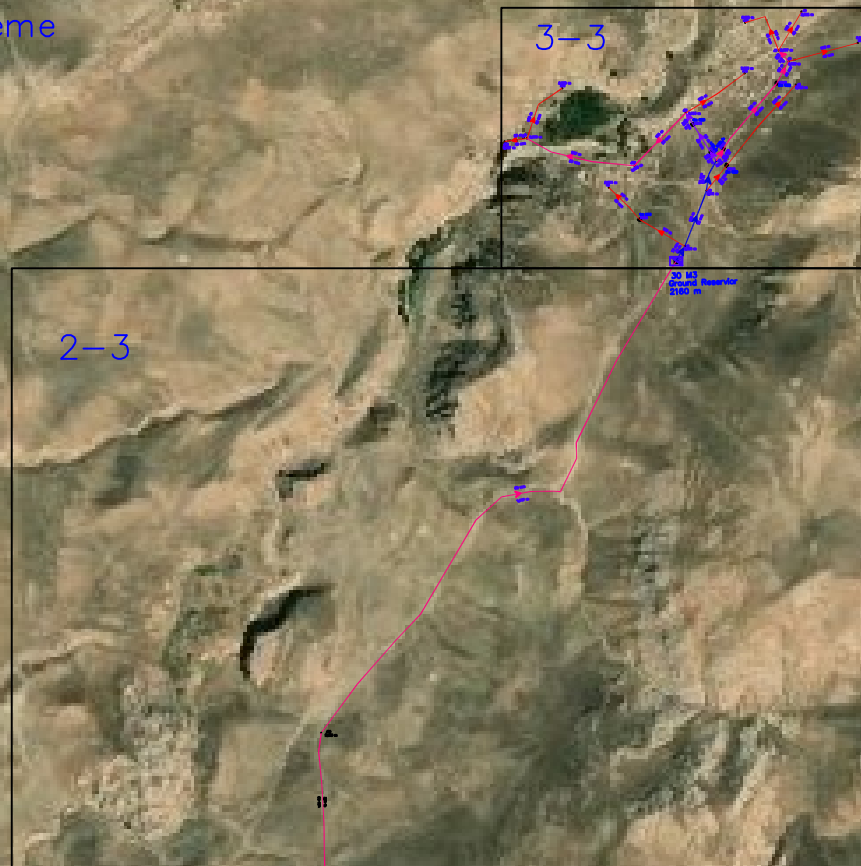


Yama Hewadmal

Yama Hewadmal

4WWZ85Q-42VR78YZ

Aug 12, 2024



1-3

Farooq Jawid

Farooq Jawid

4WWZ85Q-42VR78YZ

Aug 13, 2024

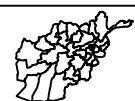
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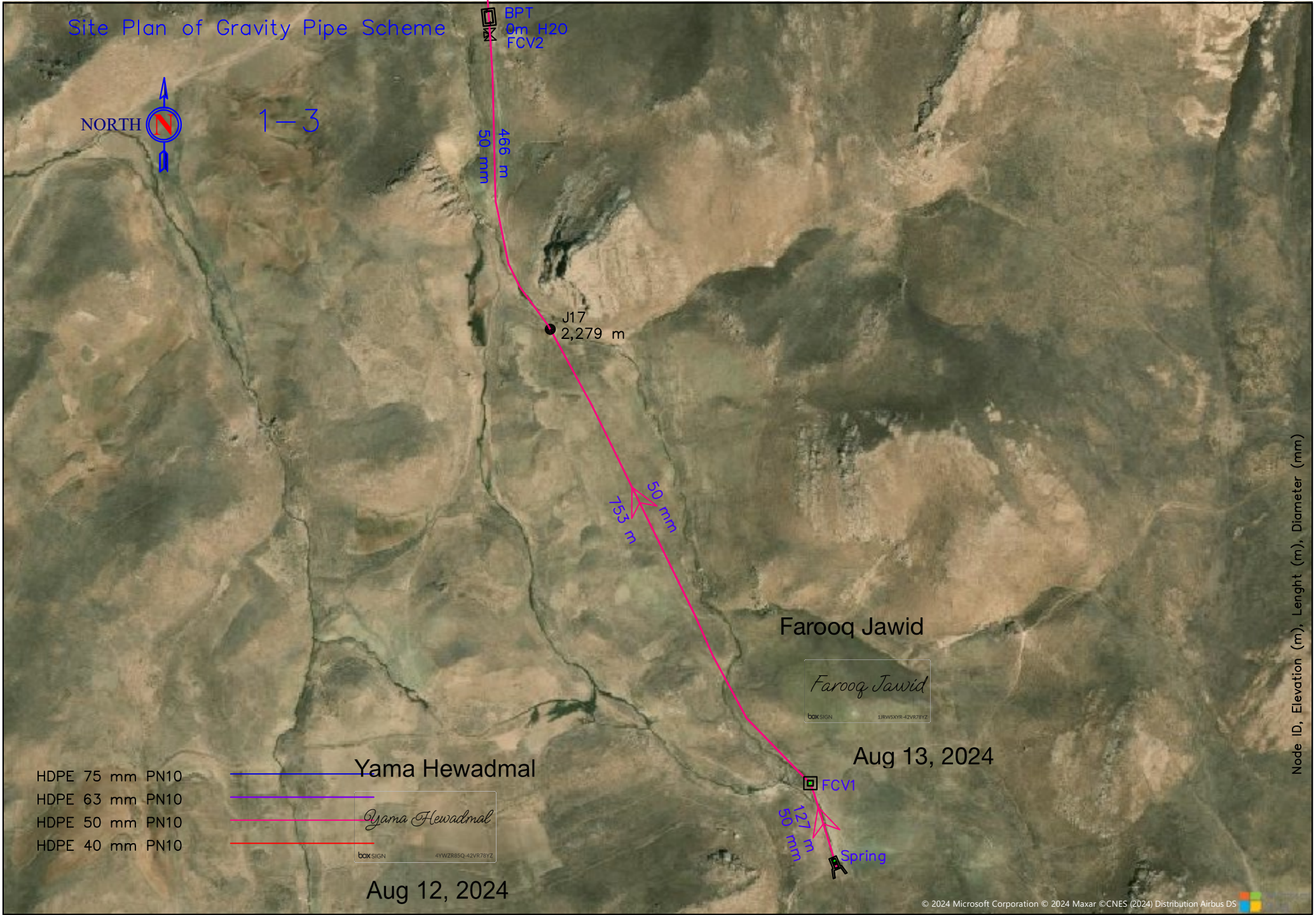
Point #	Elevation	Northing	Easting	Description
1429	2341	35°30'29.35"N	65°09'50.39"E	Existing Spring
1388	2160	35°31'05.51"N	65°10'06.21"E	Proposed Reservoir Break
1386	2246	35°31'05.51"N	65°10'31.33"E	Pressure Tank
1386	2246	35°31'05.51"N	65°10'31.33"E	FCV 2
1423	2124	35°31'53.6"N	65°10'3.09"E	PRV 1
1400	2135	35°31'57.45"N	65°10'31.0"E	PRV 2
1405	2111	35°32'3.45"N	65°10'16.7"E	PRV 3
1387	2110	35°32'0.53"N	65°10'08.0"E	PRV 4
1366	2341	35°30'29.35"N	65°09'50.39"E	FCV 1
1403	2134	35°31'57.62"N	65°10'10.0"E	FCV 4
1403	2134	35°31'57.62"N	65°10'10.0"E	FCV 3

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Node ID, Elevation (m), Length (m), Diameter (mm)

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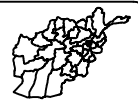




SURVEYED BY	Eng. Sayed Masoud Tur	
DESIGNED BY	Eng. Esmatullah Hamidi	
DRAWN BY	Eng. Esmatullah Hamidi	
CHECKED BY	WASH Coordinator	
REVIEWED BY	WASH Advisor	
APPROVED BY	Project Director / Manager	

Aug 12, 2024

PROVINCE	Faryab
DISTRICT	Gurziwan
VILLAGE	Badga



PROJECTS NAME	DRAWING TITLE
Gravity Flow Pipe Scheme	Site Plan of Gravity Pipe Scheme

Paper Size	A4
Scale	N:A
Date	24-April-2024

SHEET NAME	Site Plan
Total Sh.:	32
Sheet #:	3

Site Plan of Gravity Pipe Scheme



2-3

HDPE 75 mm PN10

HDPE 63 mm PN10

HDPE 50 mm PN10

HDPE 40 mm PN10

LEGEND

1	Spring Protection Box	
2	Break Pressure Tank	
3	Reservior	
4	Pressure Reducing Valve	
5	New Pipe Line	
6	Flow Control Valve	
7	Population	784 Person

Work Summary

1. Construction of Spring Protection Box
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6. Construction of 70 NO house connection

Farooq Jawid

Farooq Jawid

Aug 13, 2024

Yama Hewadmal

Yama Hewadmal

Aug 12, 2024

J18
2,216 m

50 mm
364 m

BPT

Node ID, Elevation (m), Length (m), Diameter (mm)

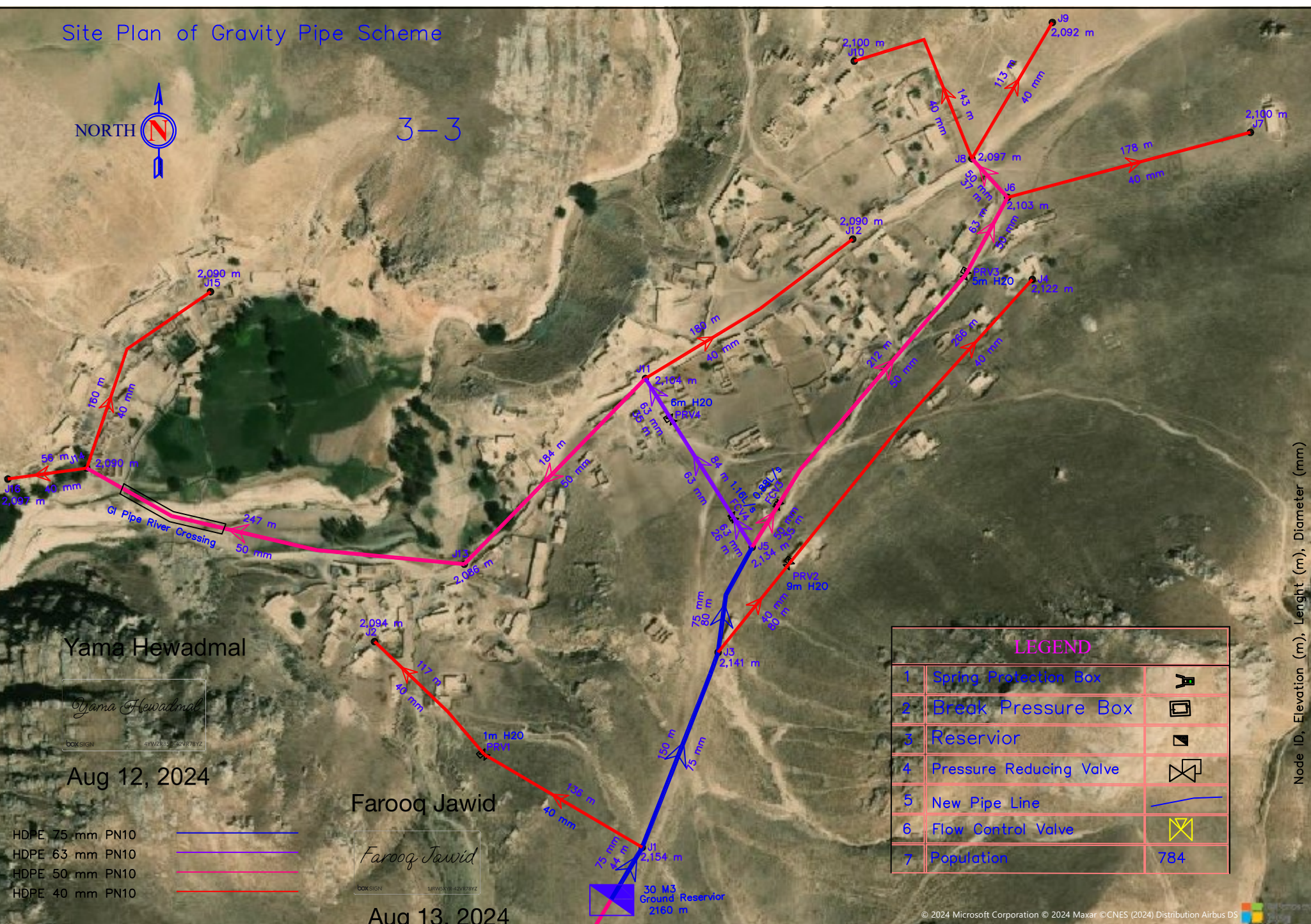
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Site Plan of Gravity Pipe Scheme



3-3



LEGEND		
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Node ID, Elevation (m), Length (m), Diameter (mm)

Yama Hewadmal



Aug 12, 2024

HDPE 75 mm PN10
HDPE 63 mm PN10
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HDPE 40 mm PN10

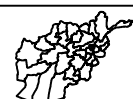
Farooq Jawid



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Site Plan of Gravity Pipe Scheme

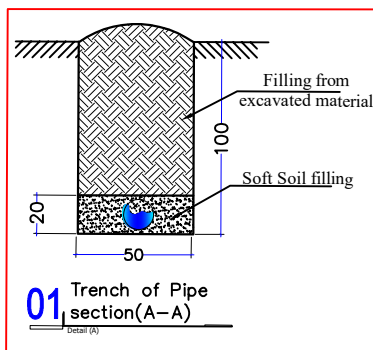


HDPE 75 mm PN10	_____
HDPE 63 mm PN10	_____
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Work Summary

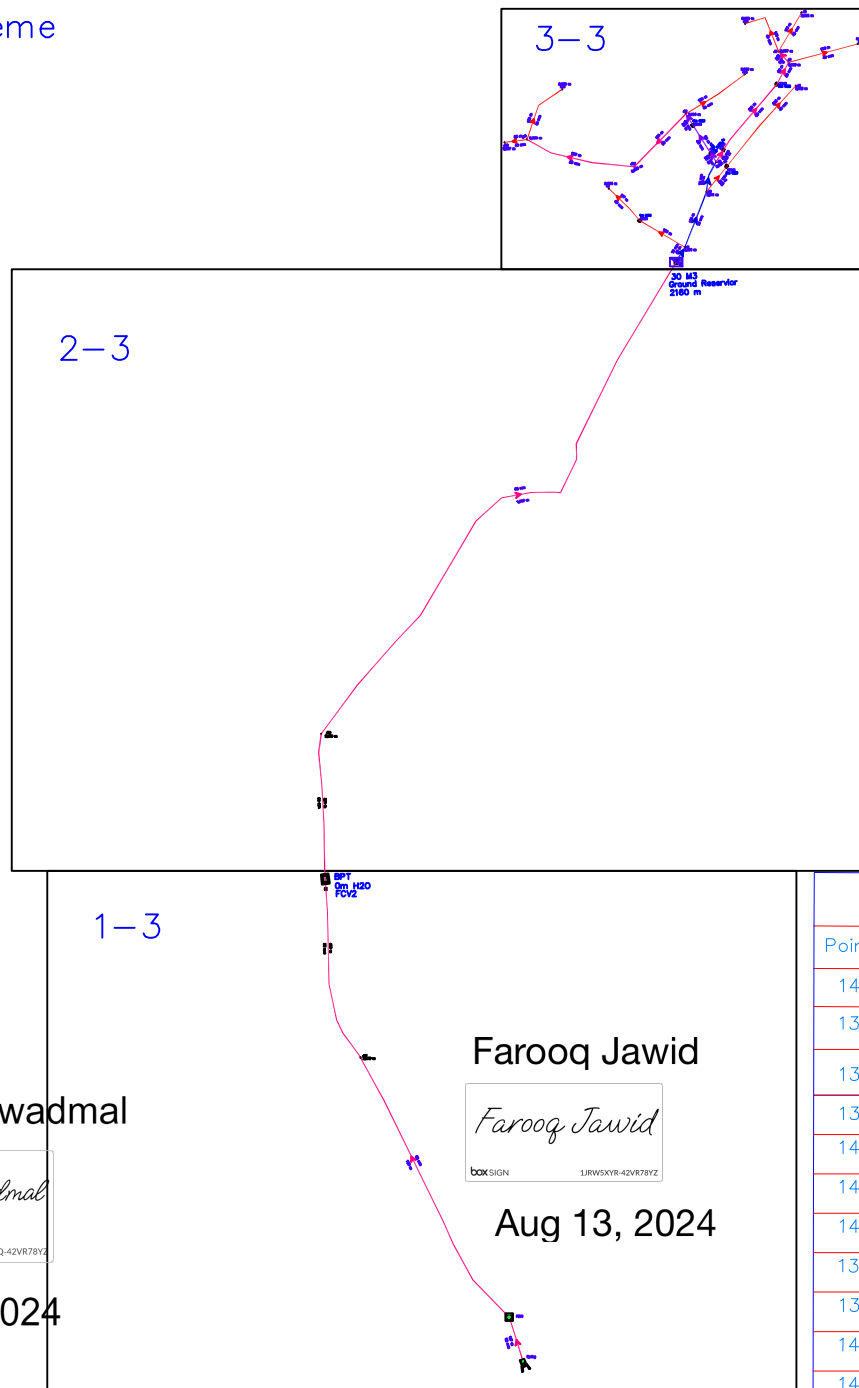
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Yama Hewadmam

Yama Hewadmam
box SIGN 4YVZ8B5Q-4ZVR78Y2

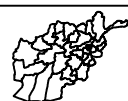
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Node ID, Elevation (m), Length (m), Diameter (mm)



Site Plan of Gravity Pipe Scheme



1-3

LEGEND		
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Work Summary

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6. Construction of 70 NO house connection

HDPE 75 mm PN10
 HDPE 63 mm PN10
 HDPE 50 mm PN10
 HDPE 40 mm PN10

Yama Hewadmal

Yama Hewadmal
 boxSIGN 4YWZRB5Q-4ZVR78YZ

Aug 12, 2024

BPT
 466 m
 50 mm

J17
 2,279 m

753 m
 50 mm

Point Table				
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1429	2341	35°30'29.35"N	65°09'50.39"E	Existing Spring
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Farooq Jawid

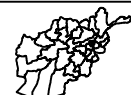
Farooq Jawid
 boxSIGN 1JRW5XYR-4ZVR78YZ

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FCV1
 127 m
 50 mm
 Spring

Node ID, Elevation (m), Length (m), Diameter (mm)

Aug 12, 2024



Site Plan of Gravity Pipe Scheme



2-3

HDPE 75 mm PN10	
HDPE 63 mm PN10	
HDPE 50 mm PN10	
HDPE 40 mm PN10	

LEGEND		
1	Spring Protection Box	
2	Break Pressure Tank	
3	Reservior	
4	Pressure Reducing Valve	
5	New Pipe Line	
6	Flow Control Valve	
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Work Summary

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3. Construction of 1 No Pressure Reducing Box
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5. Installation of Transmission and distribution pipe
6. Construction of 70 NO house connection

J18
2,216 m
364 m
50 mm

50 mm
1,547 m

Yama Hewadmal



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Farooq Jawid

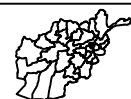


Aug 13, 2024

Node ID, Elevation (m), Length (m), Diameter (mm)

BPT

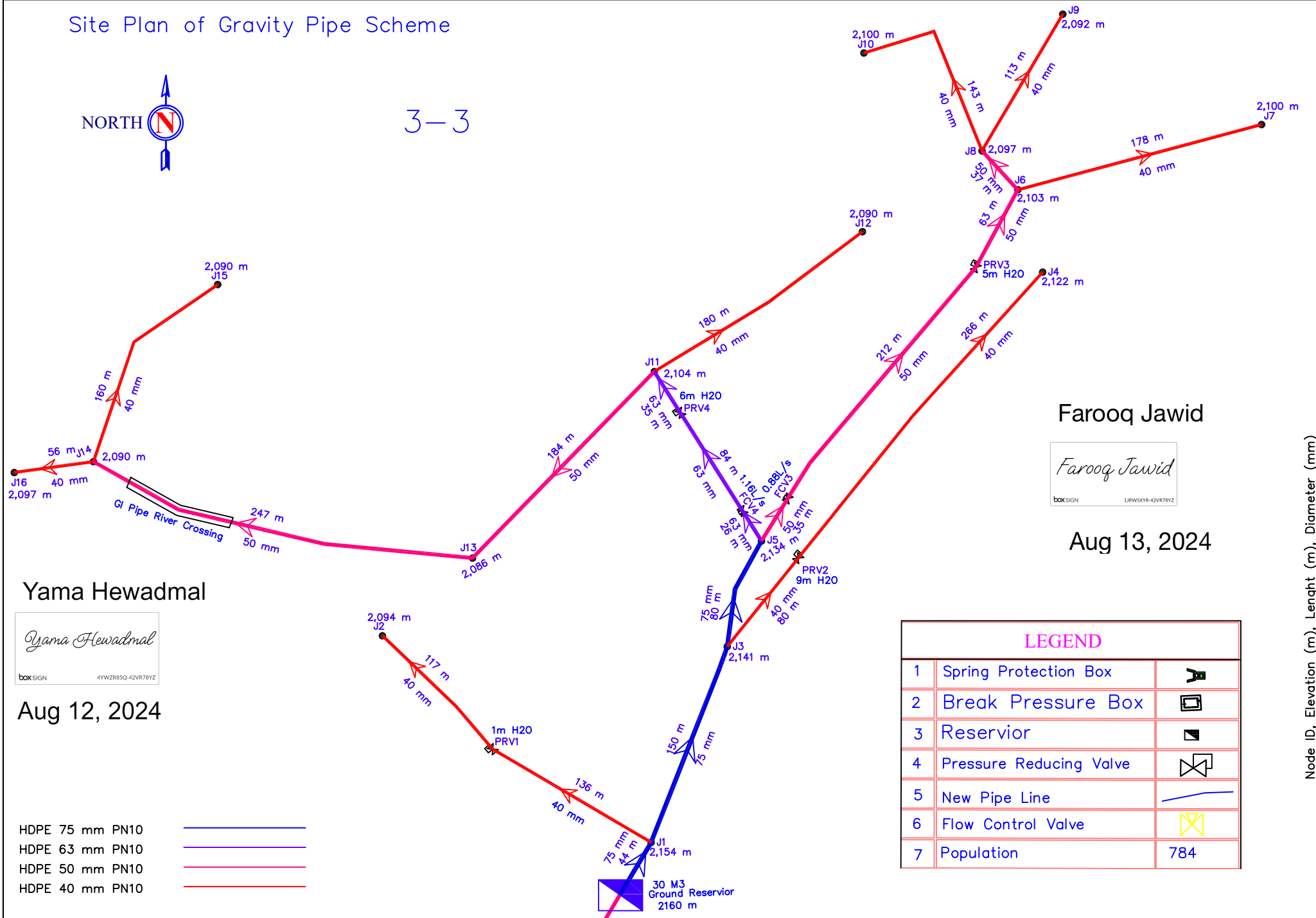
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Site Plan of Gravity Pipe Scheme



3-3



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HDPE 75 mm PN10
HDPE 63 mm PN10
HDPE 50 mm PN10
HDPE 40 mm PN10

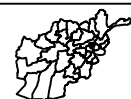


LEGEND

1	Spring Protection Box	
2	Break Pressure Box	
3	Reservior	
4	Pressure Reducing Valve	
5	New Pipe Line	
6	Flow Control Valve	
7	Population	784

Node ID, Elevation (m), Length (m), Diameter (mm)

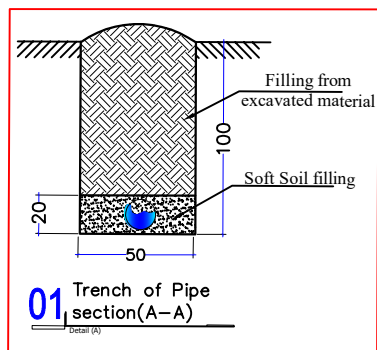
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Diameter and Length of Gravity Pipe Scheme



HDPE 75 mm PN10
HDPE 63 mm PN10
HDPE 50 mm PN10
HDPE 40 mm PN10



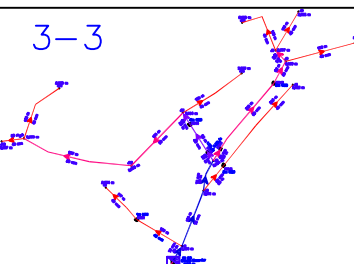
Yama Hewadmal



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2-3

1-3



Farooq Jawid

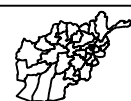


Aug 13, 2024

Point Table

Point #	Elevation	Northing	Easting	Description
1429	2341	35°30'29.35"N	65°09'50.39"E	Existing Spring
1388	2160	35°31'50.51"N	65°10'06.26"E	Proposed Reservoir
1386	2246	35° 31'5.56"N	65°09'33.39"E	Break Pressure Tank
1386	2246	35° 31'5.56"N	65°09'33.39"E	FCV 2
1423	2124	35°31'53.6"N	65°10'3.09"E	PRV 1
1400	2135	35°31'57.45"N	65°10'11.0"E	PRV 2
1406	2111	35°32'3.43"N	65°10'15.7"E	PRV 3
1387	2110	35°32'0.54"N	65°10'08.07"E	PRV 4
1366	2341	35°30'29.35"N	65°09'50.39"E	FCV 1
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 4
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 3

Node ID, Elevation (m), Length (m), Diameter (mm)





1-3

BPT
2246m
FCV2
50 mm
466 m

Diameter and Length of Gravity Pipe Scheme

Point Table				
Point #	Elevation	Northing	Easting	Description
1429	2341	35°30'29.35"N	65°09'50.39"E	Existing Spring
1388	2160	35°31'50.51"N	65°10'06.26"E	Proposed Reservoir
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Yama Hewadmal

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boxSIGN 4YWZRB5Q-4ZVR7BYZ

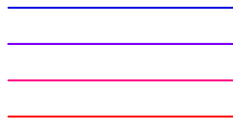
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Farooq Jawid

Farooq Jawid
boxSIGN 1JRW53YR-4ZVR7BYZ

Aug 13, 2024

HDPE 75 mm PN10
HDPE 63 mm PN10
HDPE 50 mm PN10
HDPE 40 mm PN10



50 mm
753 m

FCV1
50 mm
127 m
Spring

Node ID, Elevation (m), Length (m), Diameter (mm)



Diameter and Lenght of Gravity Pipe Scheme



2-3

- HDPE 75 mm PN10
- HDPE 63 mm PN10
- HDPE 50 mm PN10
- HDPE 40 mm PN10

50 mm
1,547 m

J18
2,216 m

364 m
50 mm

Yama Hewadmal



Aug 12, 2024

Farooq Jawid



Aug 13, 2024

Node ID, Elevation (m), Length (m), Diameter (mm)

SURVEYED BY	Eng. Sayed Masoud Turali
DESIGNED BY	Eng. Esmatullah Hamidi
DRAWN BY	Eng. Esmatullah Hamidi
CHECKED BY	WASH Coordinator
REVIEWED BY	WASH Advisor
APPROVED BY	Project Director / Manager

Aug 12, 2024

PROVINCE	Faryab
DISTRICT	Gurziwan
VILLAGE	Badga



PROJECTS NAME	DRAWING TITLE
Gravity Flow Pipe Scheme	Diameter and Lenght of Gravity Pipe Scheme

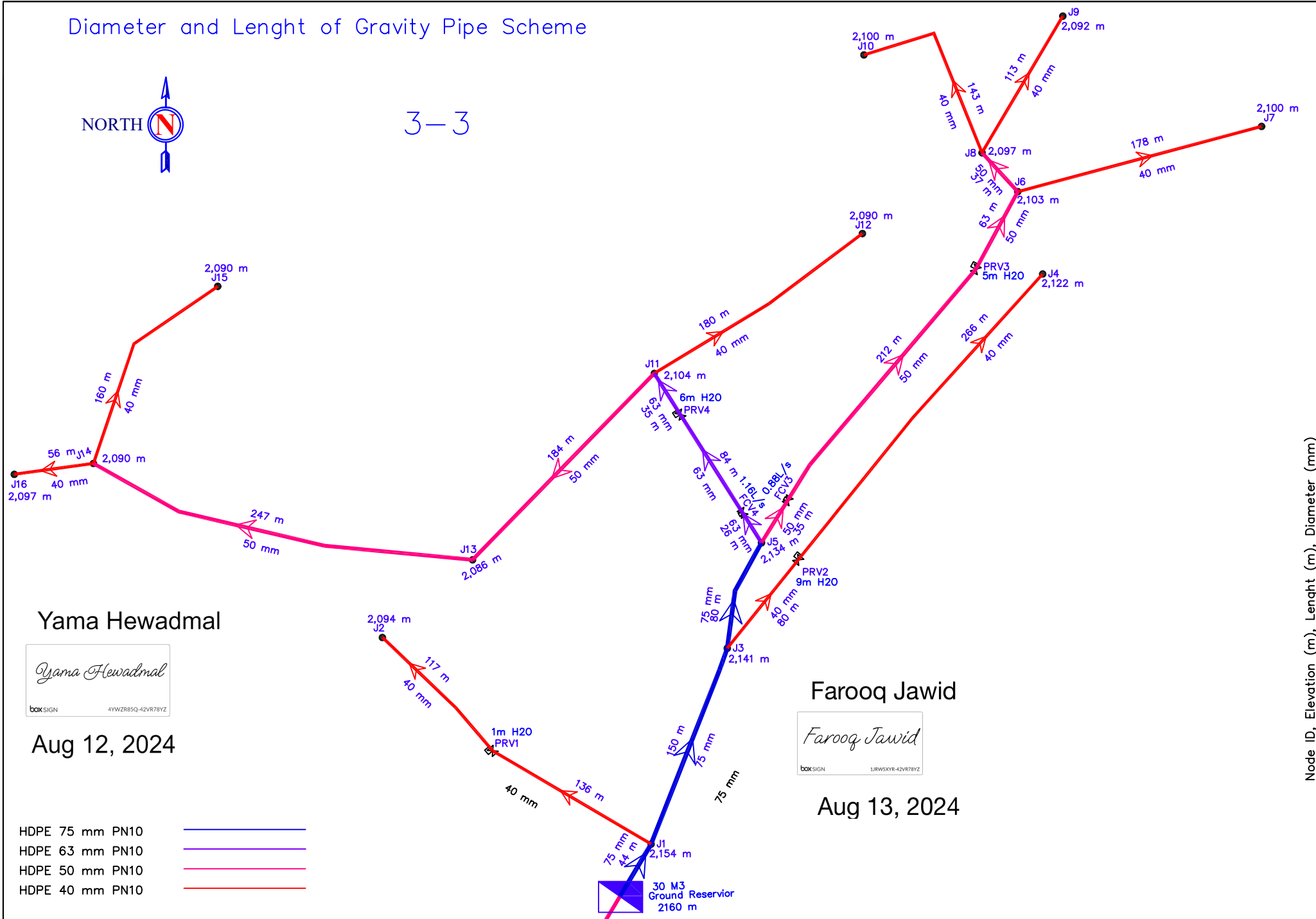
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Scale	N:A
Date	24-April-2024

SHEET NAME	Diameter and Lenght
Total Sh.:	32
Sheet #:	12

Diameter and Length of Gravity Pipe Scheme



3-3



Node ID, Elevation (m), Length (m), Diameter (mm)

Yama Hewadmal



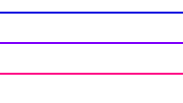
Aug 12, 2024

Farooq Jawid



Aug 13, 2024

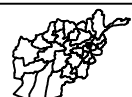
HDPE 75 mm PN10
HDPE 63 mm PN10
HDPE 50 mm PN10
HDPE 40 mm PN10



Aug 12, 2024

SURVEYED BY	Eng. Sayed Masoud Turali
DESIGNED BY	Eng. Esmatullah Hamidi
DRAWN BY	Eng. Esmatullah Hamidi
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PROVINCE	Faryab
DISTRICT	Gurziwan
VILLAGE	Badga



PROJECTS NAME	Gravity Flow Pipe Scheme
DRAWING TITLE	Diameter and Length of Gravity Pipe Scheme

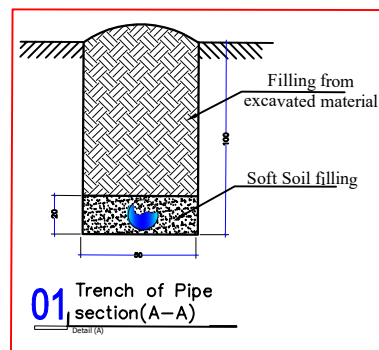
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Date	24-April-2024

SHEET NAME	Diameter and Length
Total Sh.:	32
Sheet #:	13

Lenght and Hydralic Gradient of Gravity Pipe Scheme



HDPE 75 mm PN10
 HDPE 63 mm PN10
 HDPE 50 mm PN10
 HDPE 40 mm PN10



Yama Hewadmal

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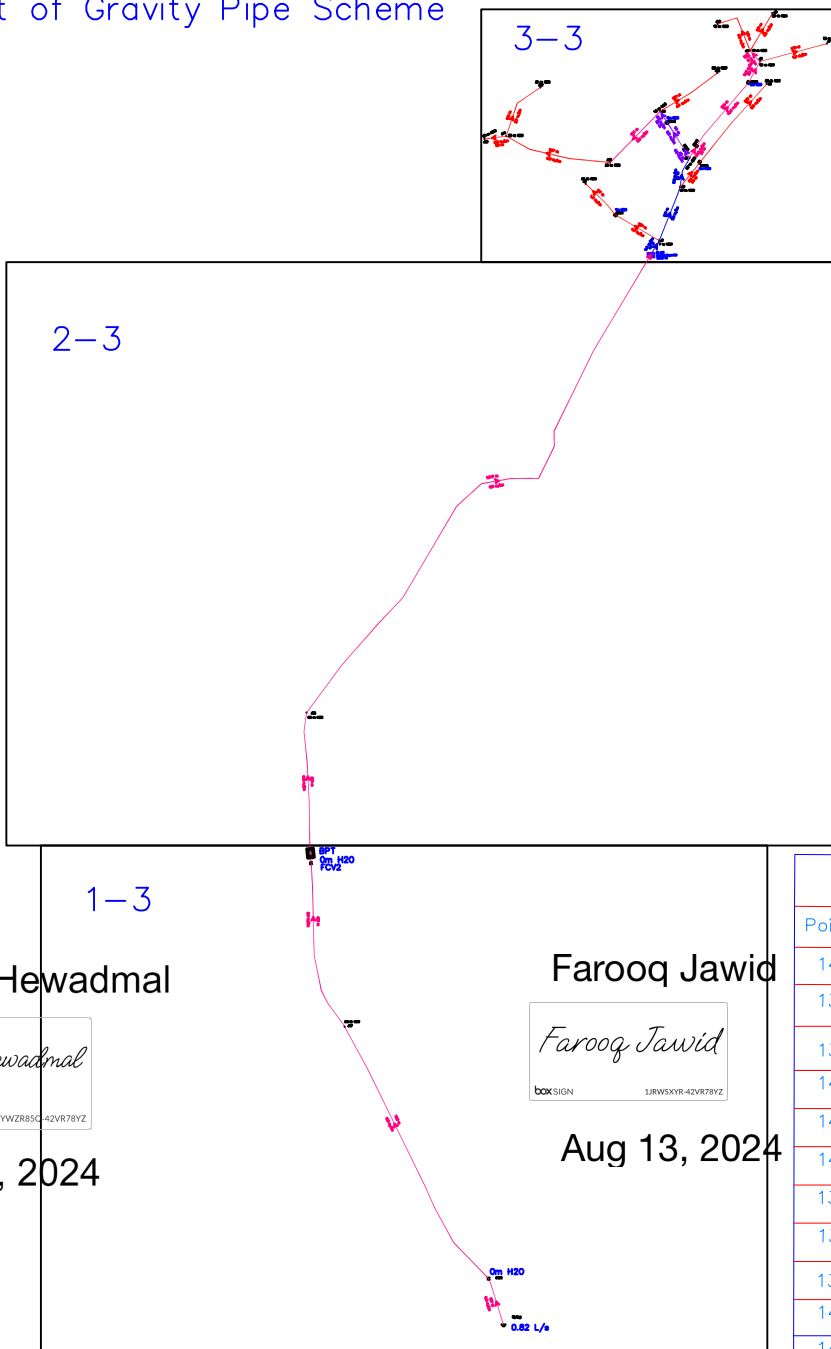
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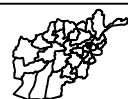
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1400	2135	35°31'57.45"N	65°10'11.0"E	PRV 2
1406	2111	35°32'3.43"N	65°10'15.7"E	PRV 3
1387	2110	35°32'0.54"N	65°10'08.07"E	PRV 4
1366	2341	35°30'29.35"N	65°09'50.39"E	FCV 1
1386	2246	35° 31'5.56"N	65°09'33.39"E	FCV 2
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 3
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 4

Node ID, Length (m), Hydraulic Gradient (m/Km), Pressure (mH2O)





BPT
0m H₂O
FCV2

Lenght and Hydralic Gradient of Gravity Pipe Scheme

8.8 m/km
466 m

1-3

59 m H₂O
J17

8.8 m/km
753 m

Yama Hewadmal

Yama Hewadmal

box SIGN

4YWZR85Q-4ZVR78YZ

Aug 12, 2024

Farooq Jawid

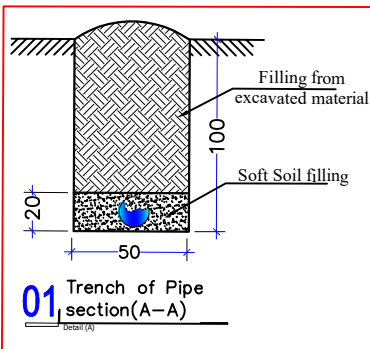
Farooq Jawid

box SIGN

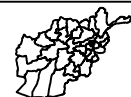
1JRW5XYR-4ZVR78YZ

Aug 13, 2024

0m H₂O
FCV1
8.8 m/km
127 m
Spring
0.82 L/s



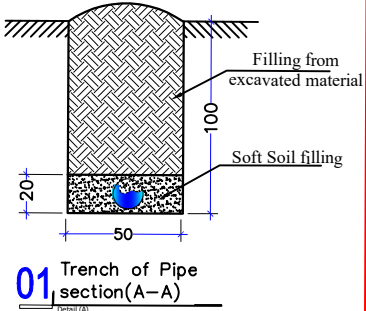
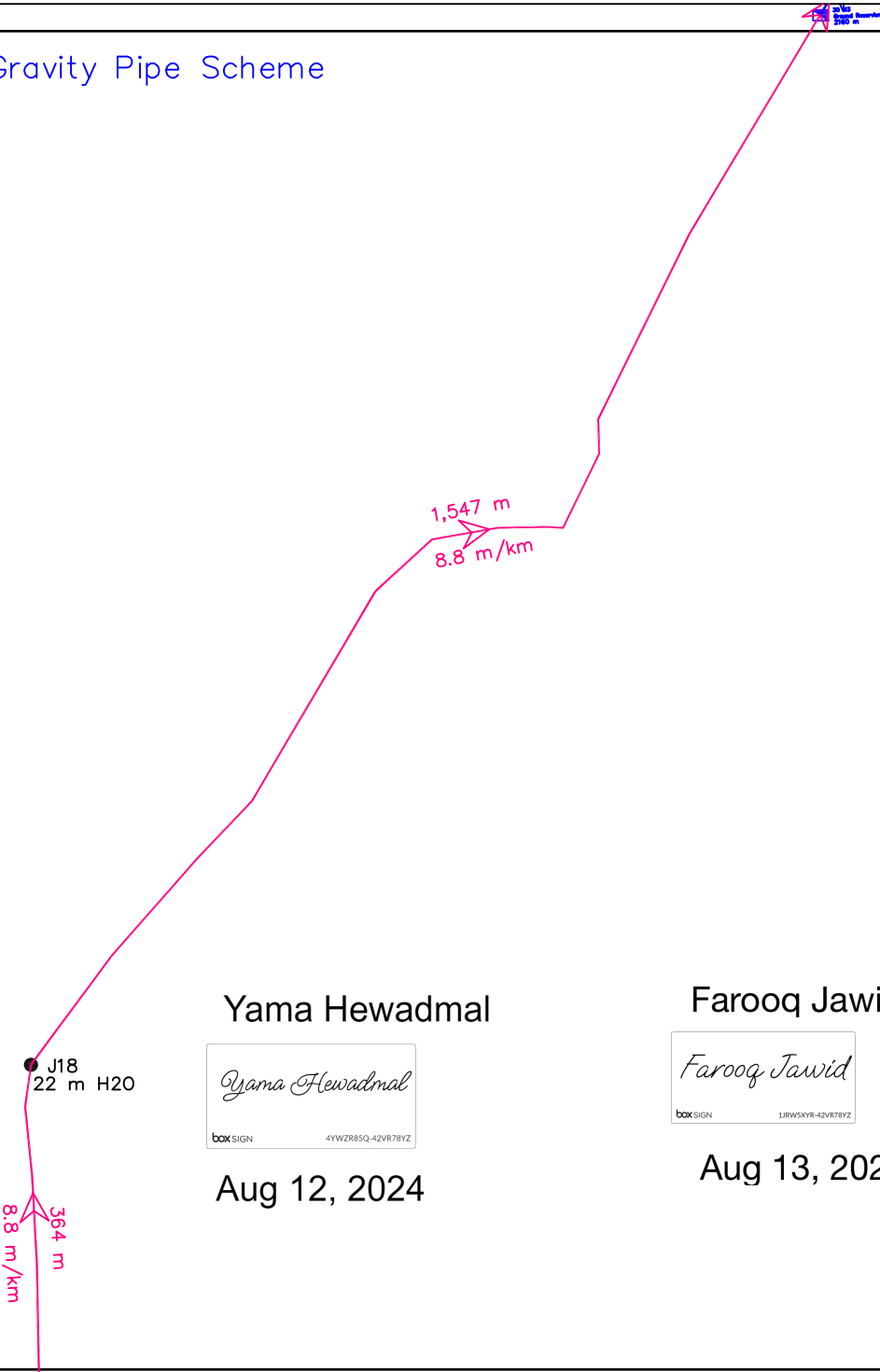
Node ID, Leght (m), Hydralic Gradient (m/Km), Pressure (mH₂O)



Lenght and Hydralic Gradient of Gravity Pipe Scheme



2-3



Yama Hewadmal

Yama Hewadmal
boxSIGN 4YWZR85Q-4ZVR78YZ

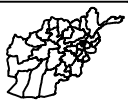
Aug 12, 2024

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Farooq Jawid
boxSIGN 1JRW5XYR-4ZVR78YZ

Aug 13, 2024

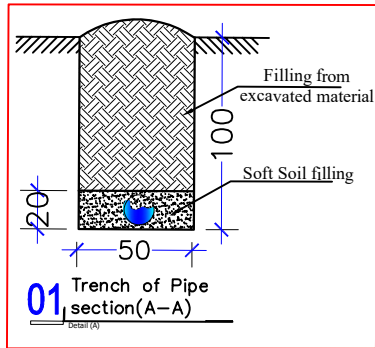
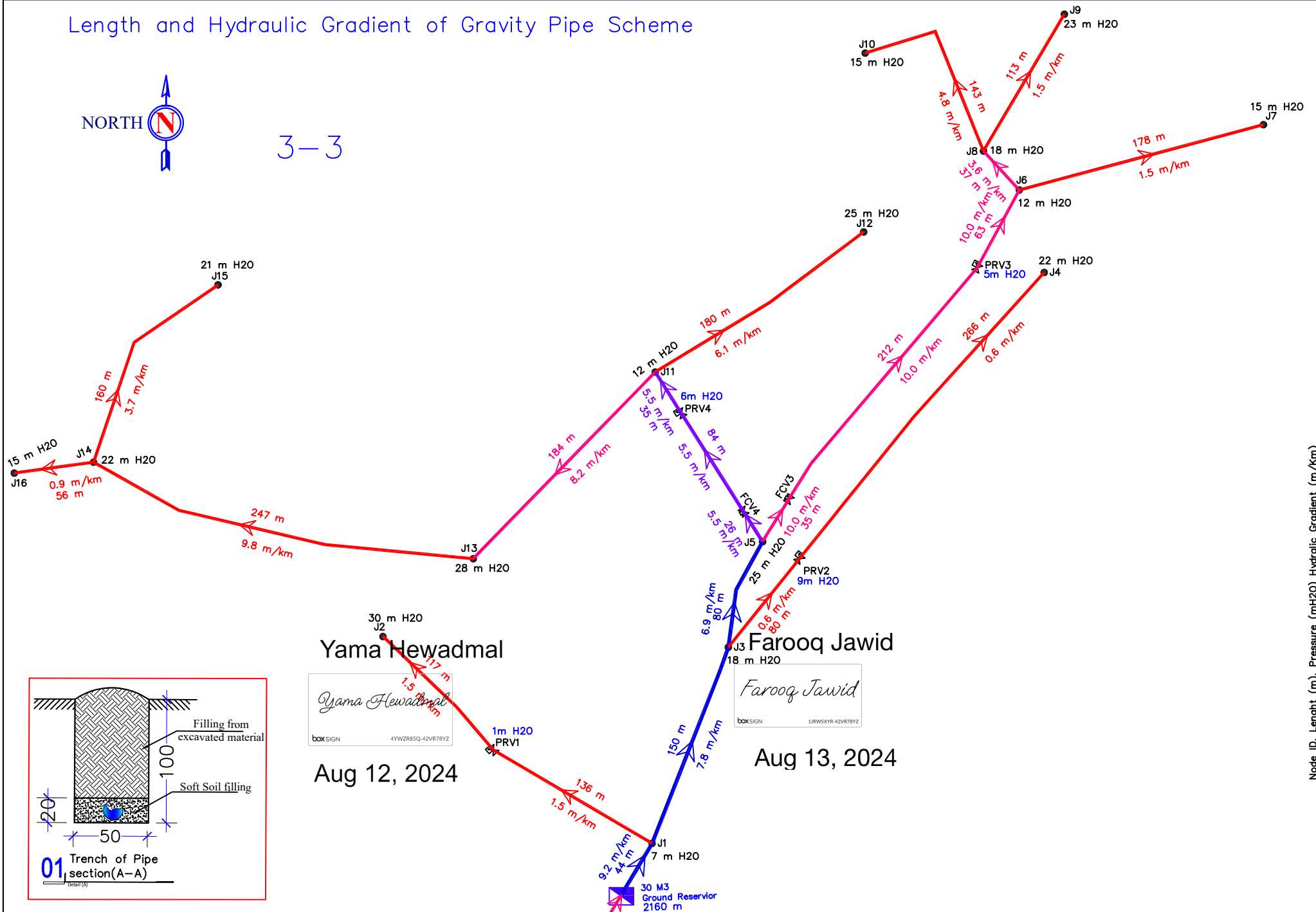
Node ID, Lenght (m), Hydraulic Gradient (m/km), Pressure (mH2O)



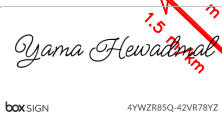
Length and Hydraulic Gradient of Gravity Pipe Scheme



3-3



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Aug 13, 2024

Node ID, Length (m), Pressure (mH2O) Hydraulic Gradient (m/km)

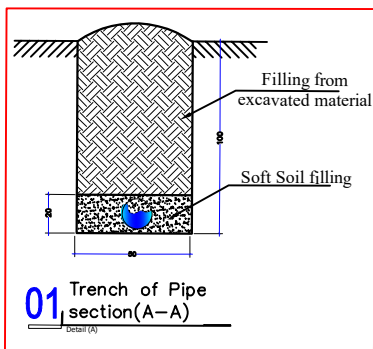
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Flow and Velocity of Gravity Pipe Scheme



HDPE 75 mm PN10
 HDPE 63 mm PN10
 HDPE 50 mm PN10
 HDPE 40 mm PN10



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Yama Hewadmal
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Farooq Jawid
 boxSIGN 1URW5XYR-4ZVR78YZ

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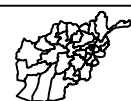
2-3

1-3

3-3

Point Table				
Point #	Elevation	Northing	Easting	Description
1429	2341	35°30'29.35"N	65°09'50.39"E	Existing Spring
1388	2160	35°31'50.51"N	65°10'06.26"E	Proposed Reservoir
1386	2246	35° 31'5.56"N	65°09'33.39"E	Break Pressure Tank
1423	2124	35°31'53.6"N	65°10'3.09"E	PRV 1
1400	2135	35°31'57.45"N	65°10'11.0"E	PRV 2
1406	2111	35°32'3.43"N	65°10'15.7"E	PRV 3
1387	2110	35°32'0.54"N	65°10'08.07"E	PRV 4
1366	2341	35°30'29.35"N	65°09'50.39"E	FCV 1
1386	2246	35° 31'5.56"N	65°09'33.39"E	FCV 2
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 3
1403	2134	35°31'57.82"N	65°10'10.07"E	FCV 4

Node ID, Flow (L/s), Velocity (m/s), Pressure (mH2O)





BPT
0m H₂O
FCV2

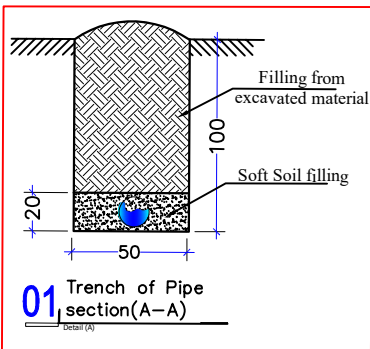
Flow and Velocity of Gravity Pipe Scheme

0.82 L/s
0.54 m/s

1-3

59 m H₂O
J17

0.82 L/s
0.54 m/s



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0m H₂O
FCV1
0.82 L/s
0.54 m/s
Spring
0.82 L/s

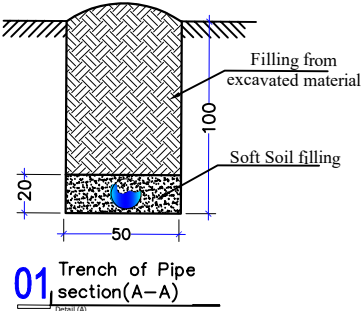
Node ID, Flow (L/s), Velocity (m/s), Pressure (mH₂O)



Flow and Velocity of Gravity Pipe Scheme



2-3



J18
22 m H2O
0.54 m/s
0.82 L/s

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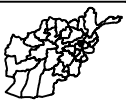
Aug 12, 2024

Farooq Jawid

Farooq Jawid
box SIGN 1JRW5XY8-4ZVR78YZ

Aug 13, 2024

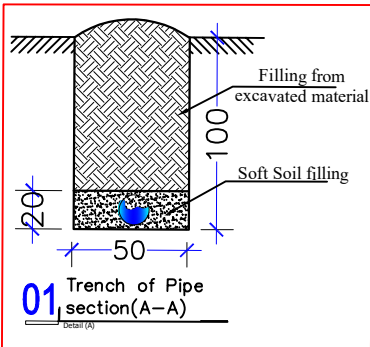
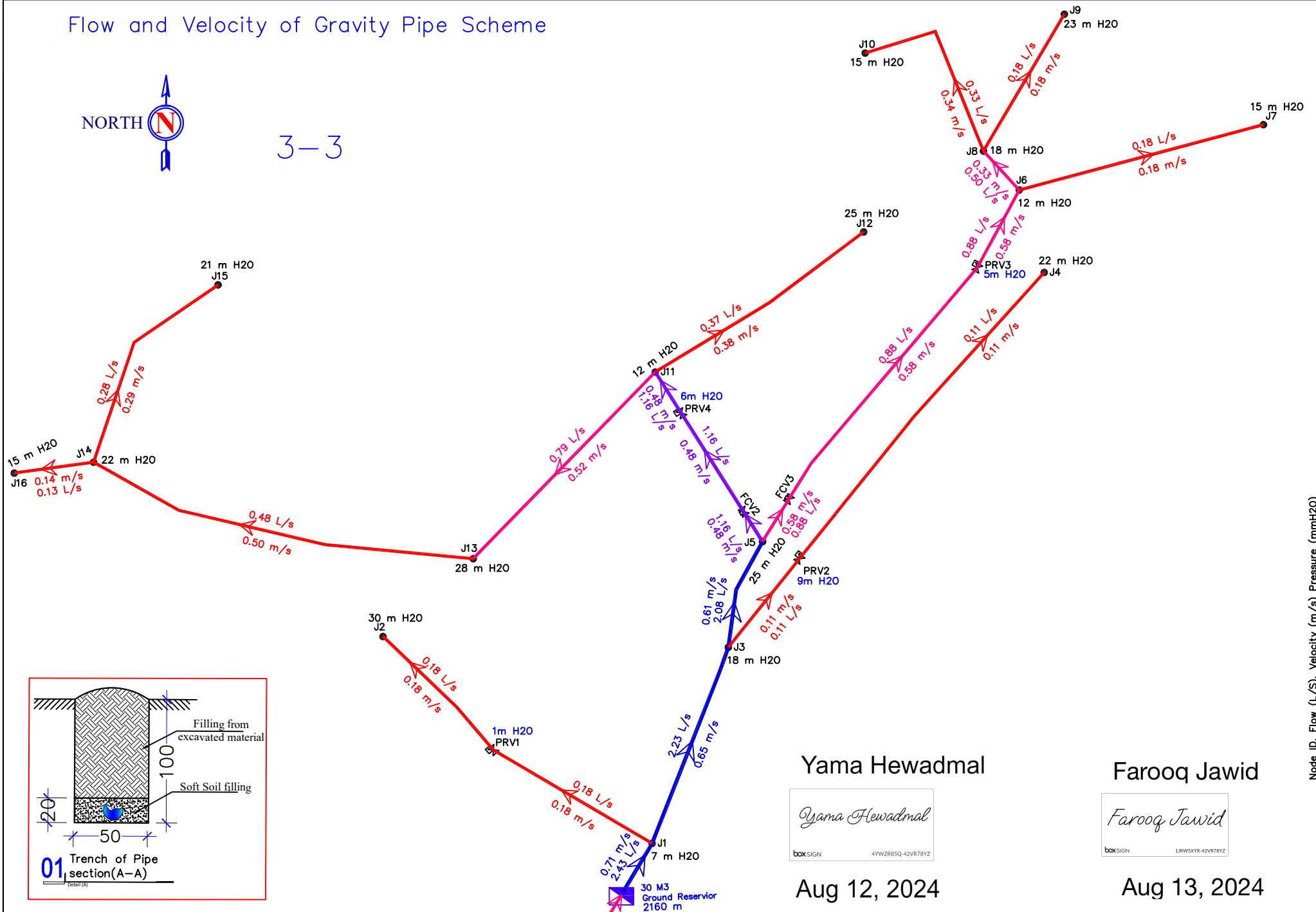
Node ID, Flow (L/s), Velocity (m/s), Pressure (mH2O)



Flow and Velocity of Gravity Pipe Scheme



3-3



Yama Hewadmam



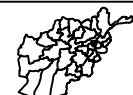
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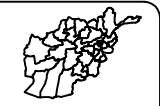
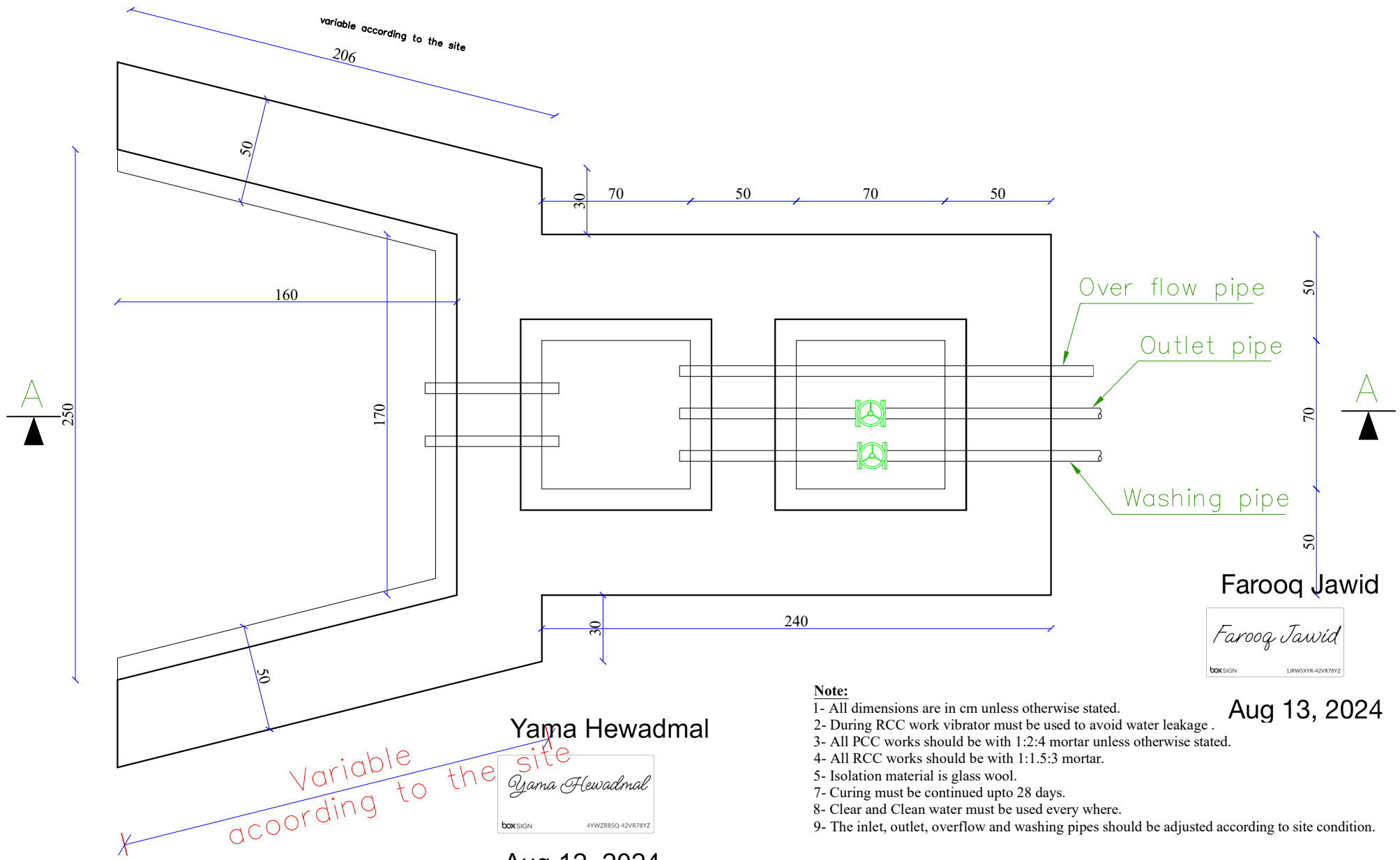
Farooq Jawid

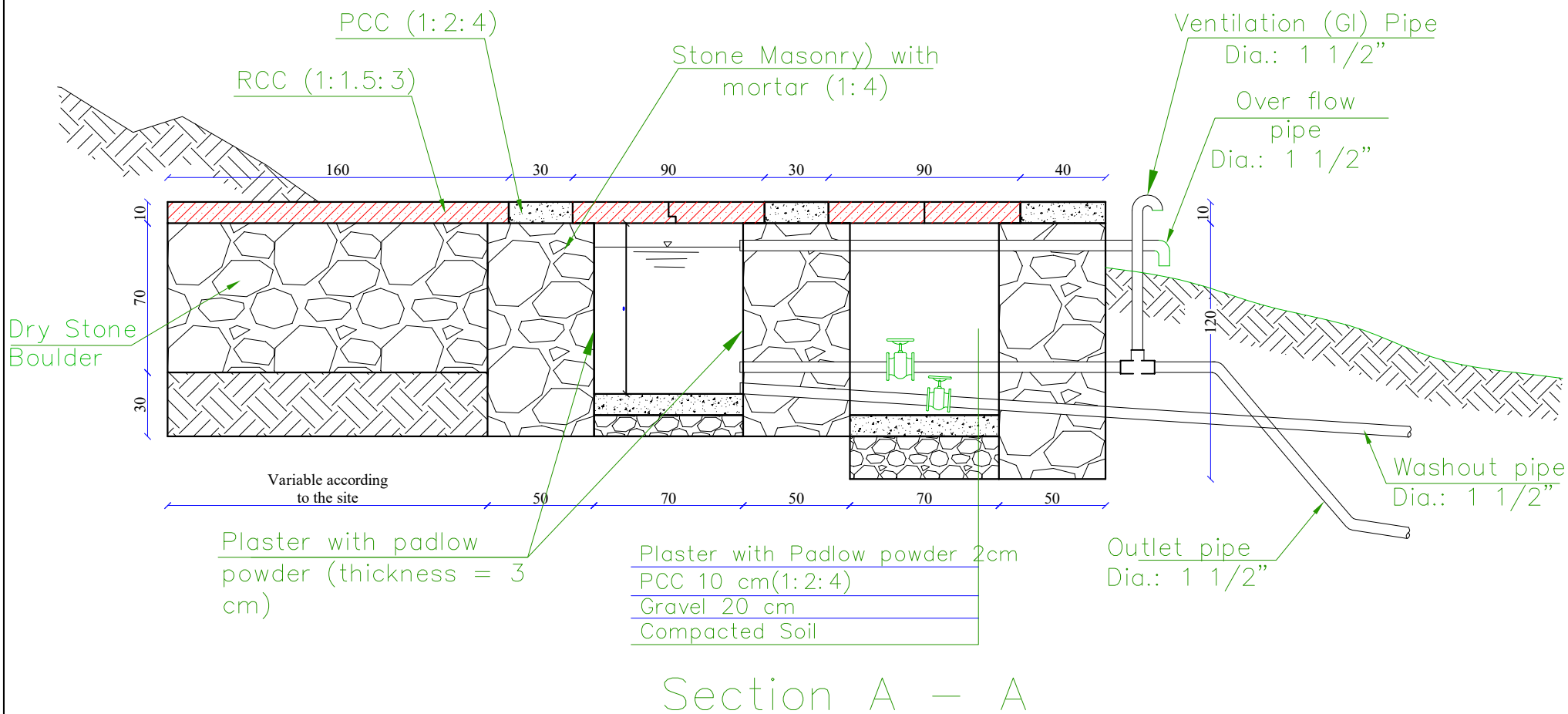


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Node ID, Flow (L/s), Velocity (m/s) Pressure (mmH2O)







Note:

The inside of sedimentation and gate valve box should be plastered with cement-sand mortar and padlow powder.

Yama Hewadmal



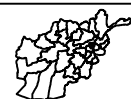
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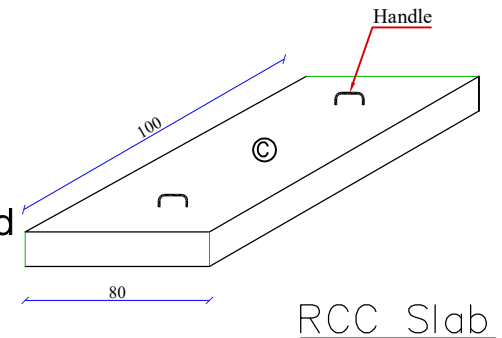
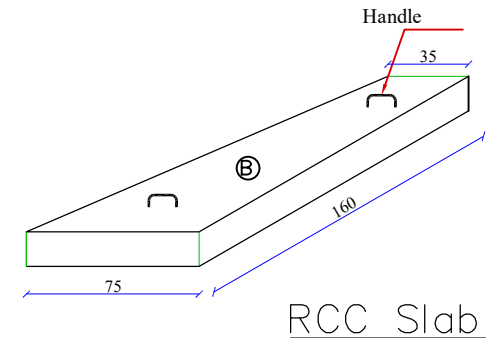
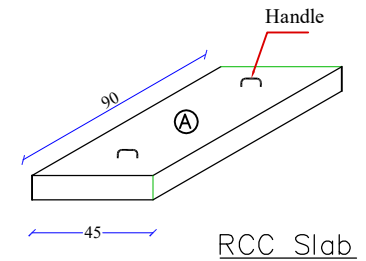
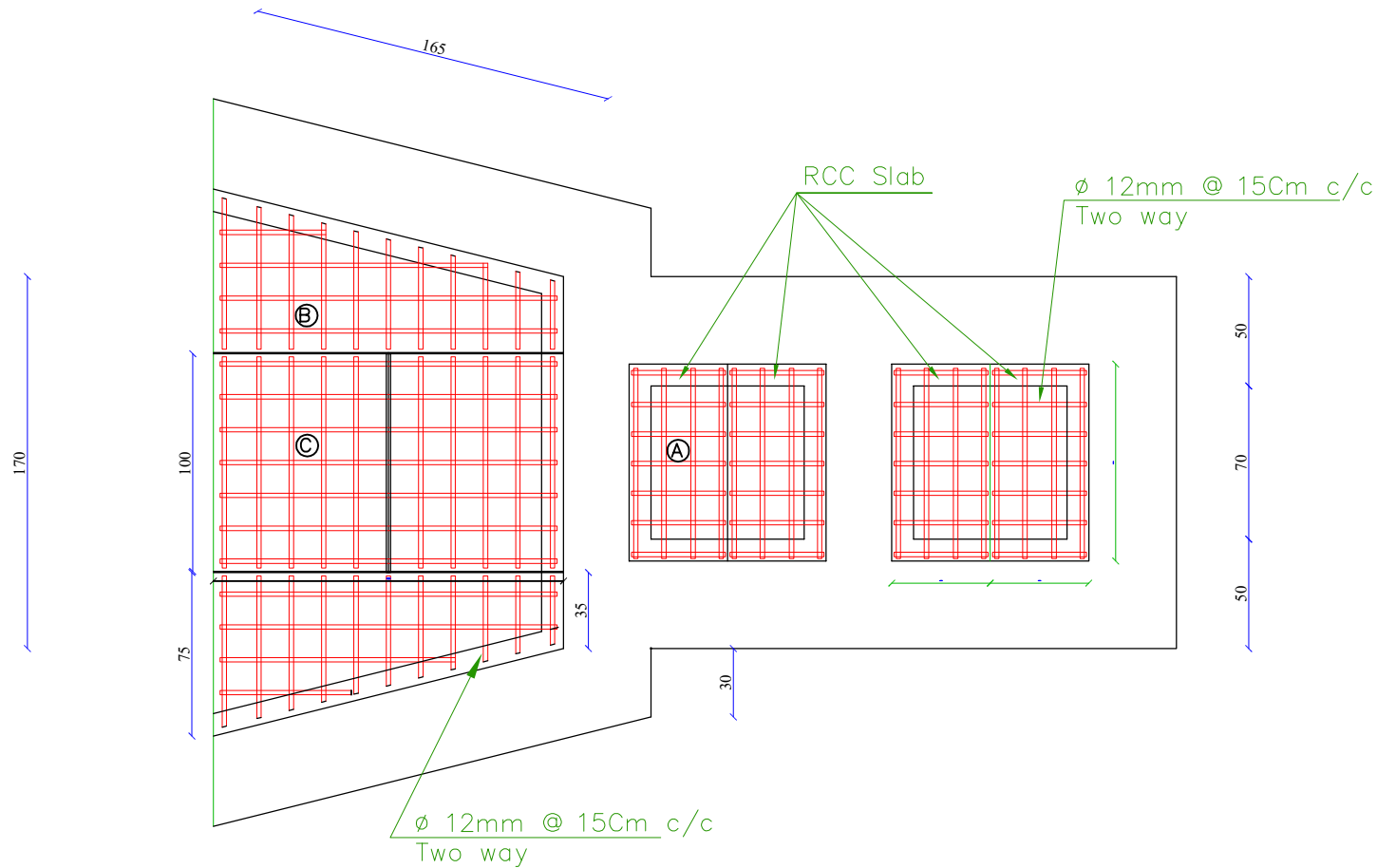
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Steel Bar Schedule for one spring								
Bar no.	Bar dia (mm)	Num. of bar	Length (m)	Total length (m)	Weight (kg/m)	Total weight (kg)	Total weight + 5 % (kg)	Shape of bar
1	12	26	1	26	0.888	23	24	
2	12	22	0.6	13.2	0.888	11.7	12.3	
3	12	8	1.1	8.8	0.888	7.8	8.9	
4	12	14	0.8	11.2	0.888	9.9	10.4	
5	12	28	0.45	12.6	0.888	11.8	12.4	
Total Weight				68.4Kg				

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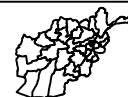
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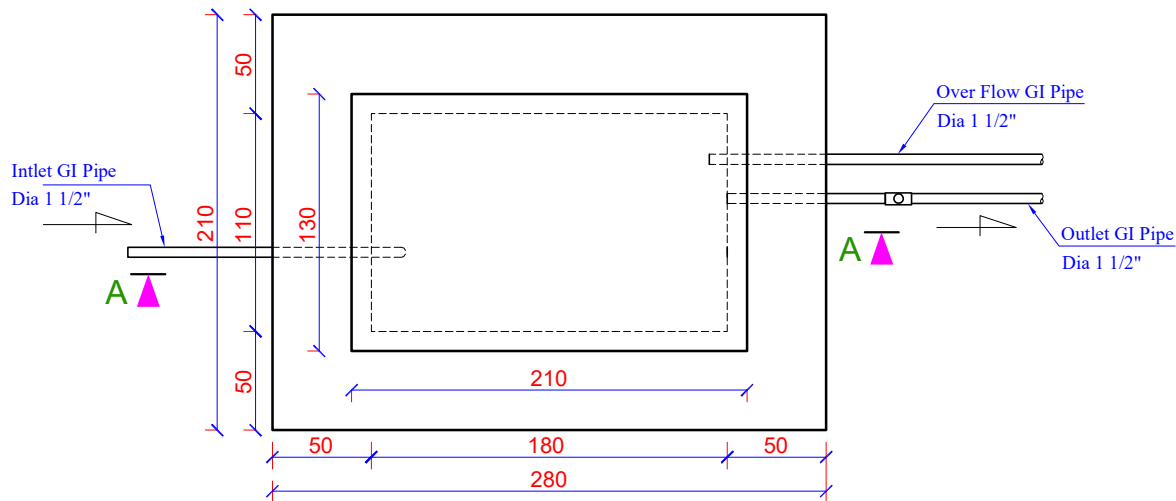
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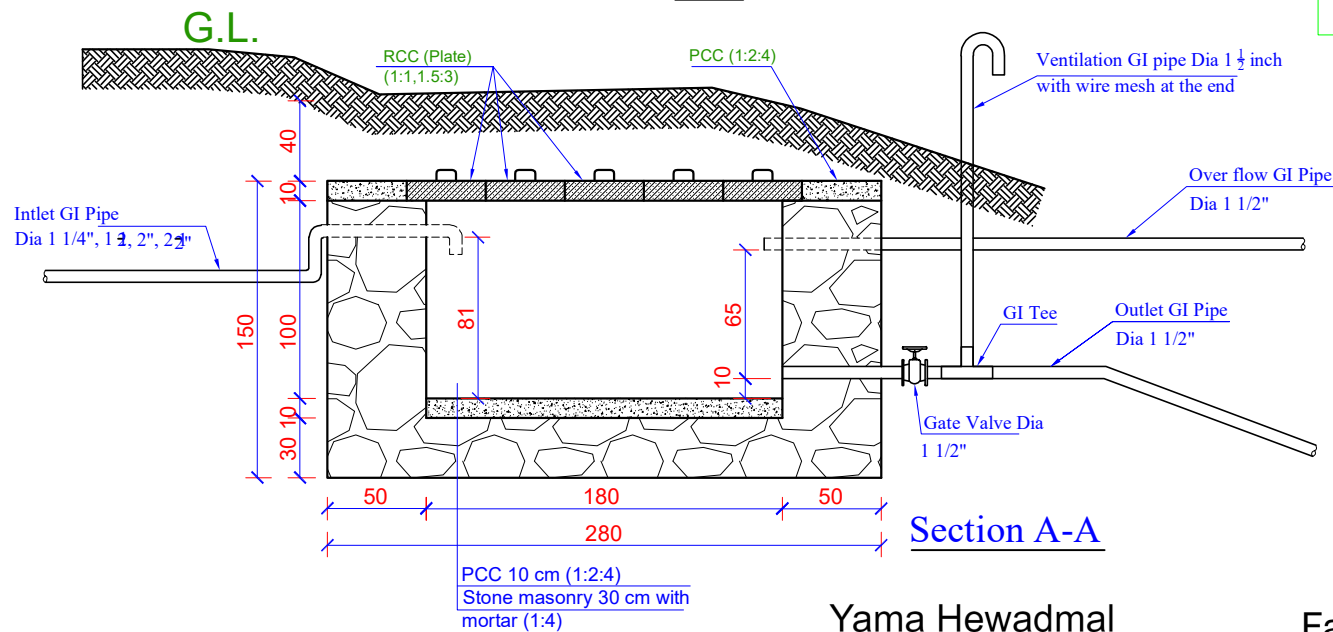
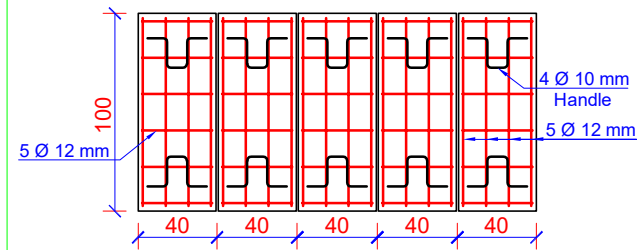
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Reinforcement Details of Top Slabs



Note:

Location and distance of break pressures from spring and reservoir are shown in site plan.
GI pipe according site plan

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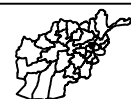
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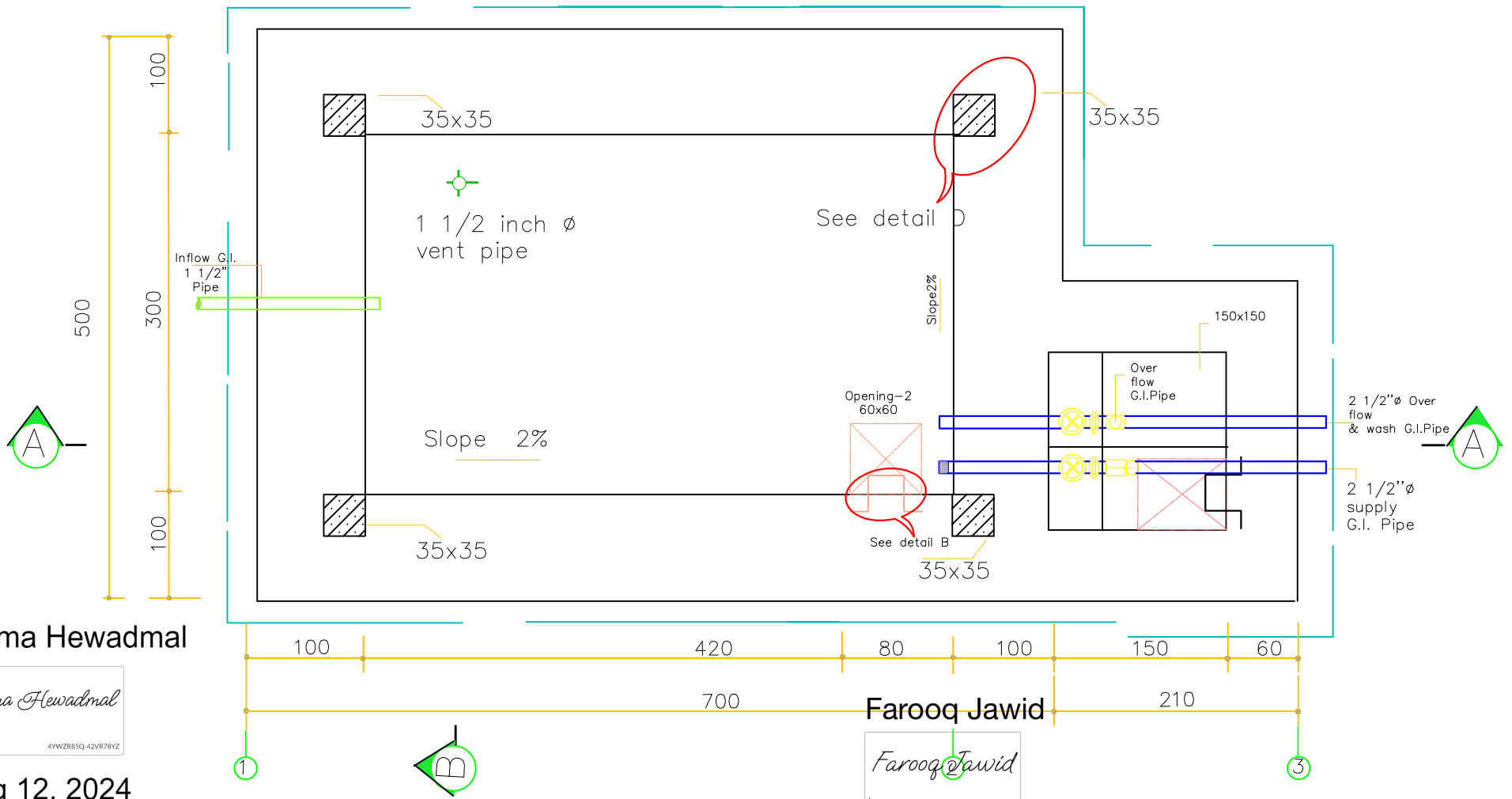
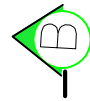
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Location of Break pressures:

Break pressure Tank
N =35° 31' 5.56"
E =65° 09' 33.39"
Elev =2246 m



Water resevior Plan



Yama Hewadmal

Yama Hewadmal

box SIGN

4YWZRB5Q-42VR78YZ

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box SIGN

1JRW5KYR-42VR78YZ

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PROJECTS NAME
Gravity Flow Pipe Scheme

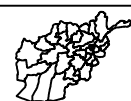
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Water Reservoir Plan

Paper Size
Scale
Date

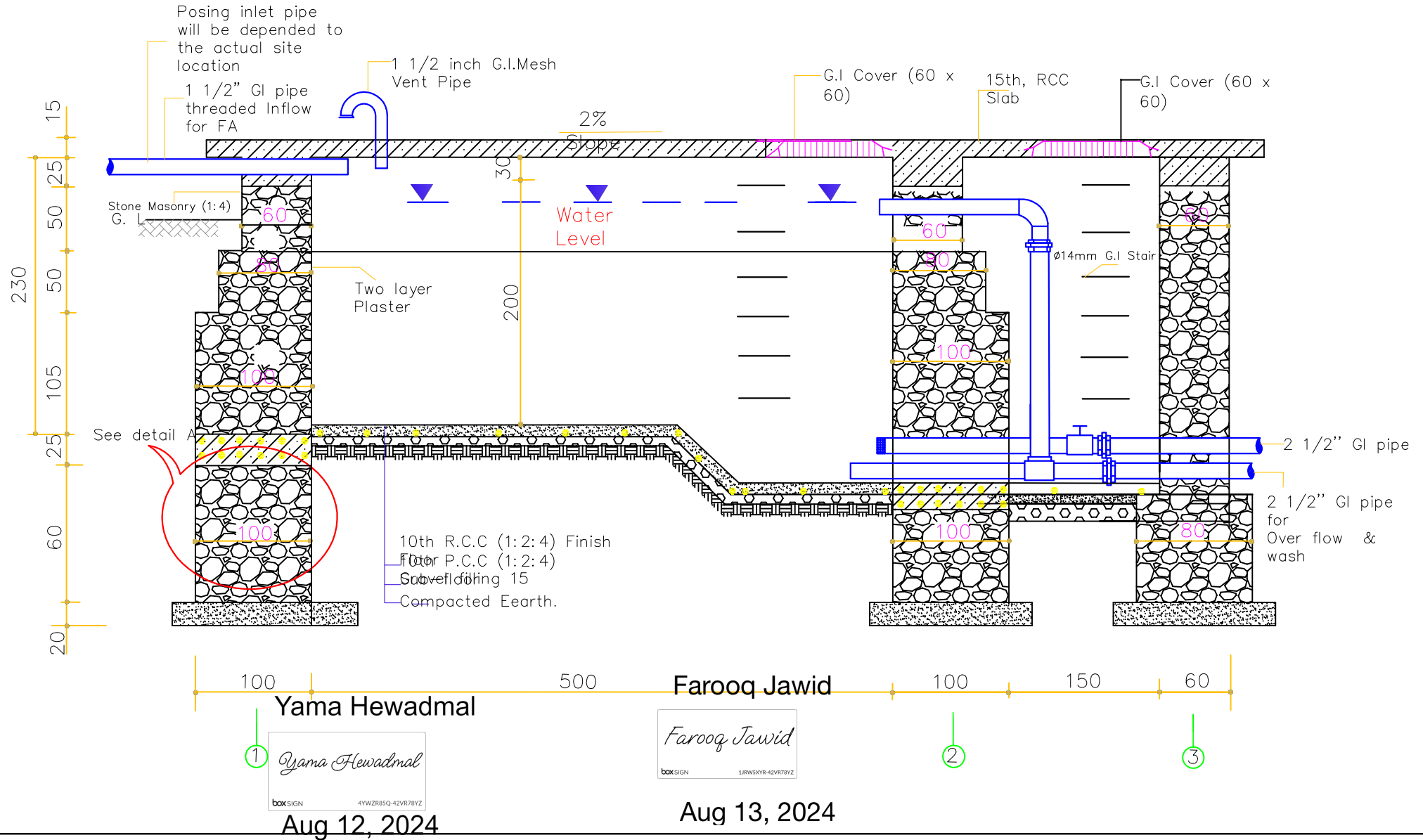
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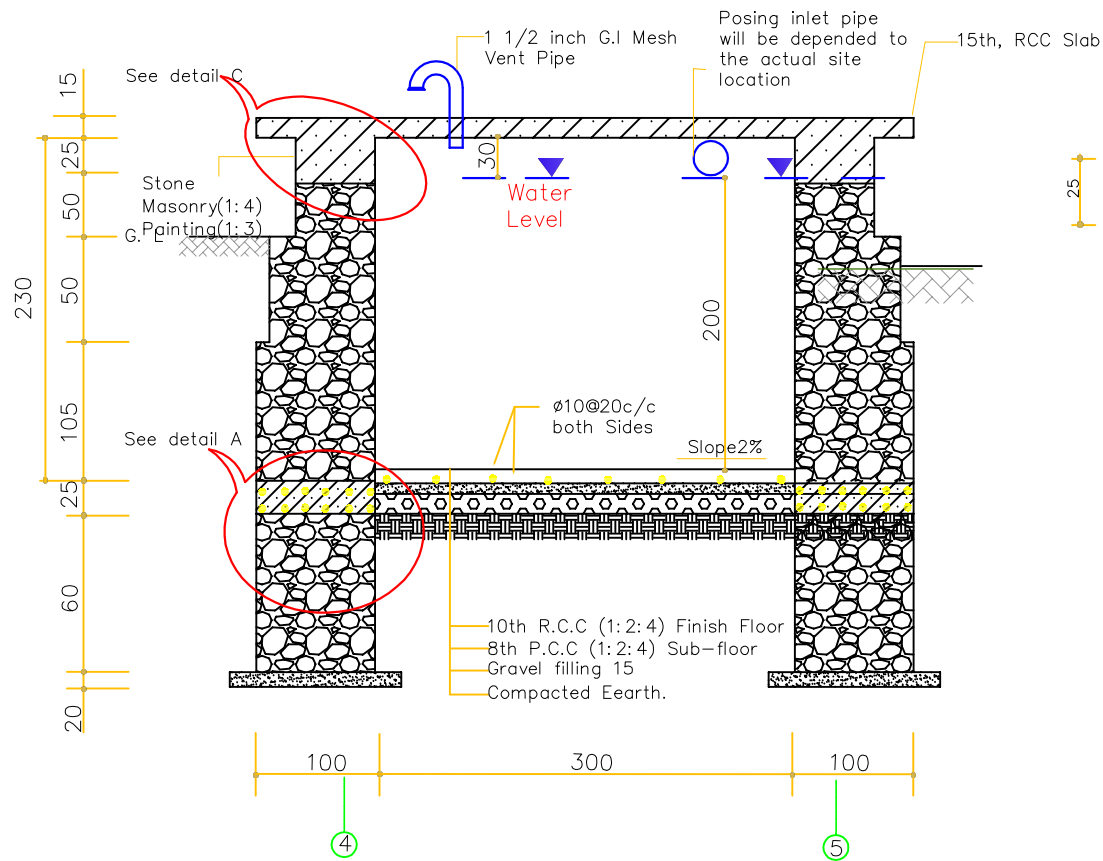
32
26



Section A-A



Section B-B



Yama Hewadmal

Yama Hewadmal

box SIGN 4YWZB5SQ-4ZVR78YZ

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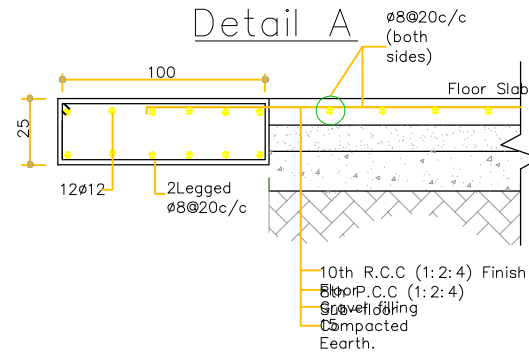
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Farooq Jawid

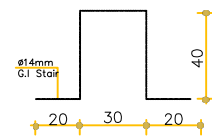
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Aug 13, 2024

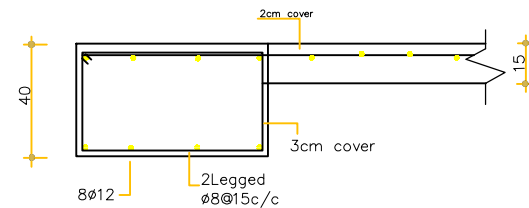
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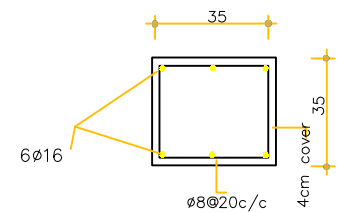
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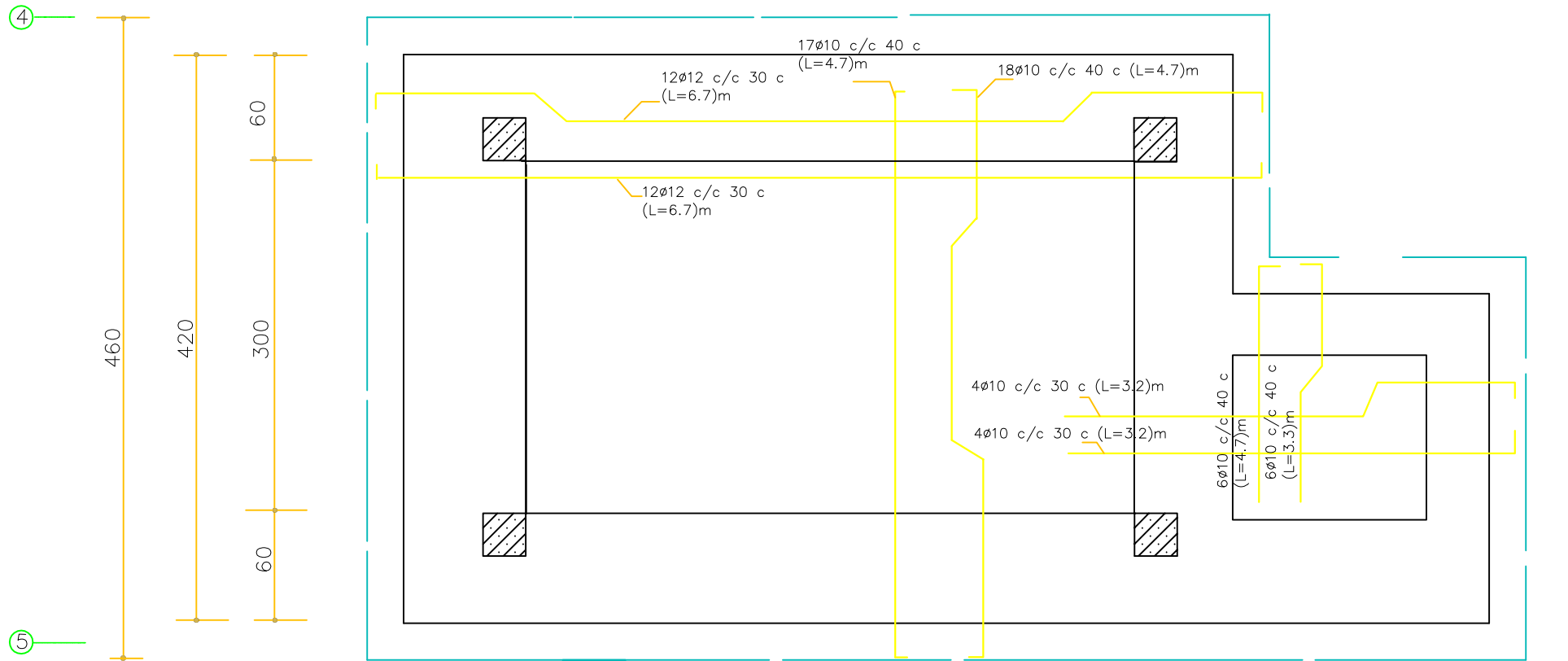
Detail C



Detail D



Slab Rienforcement plan



Yama Hewadmal

Yama Hewadmal
boxSIGN 4YWZ85Q-4ZVR78YZ

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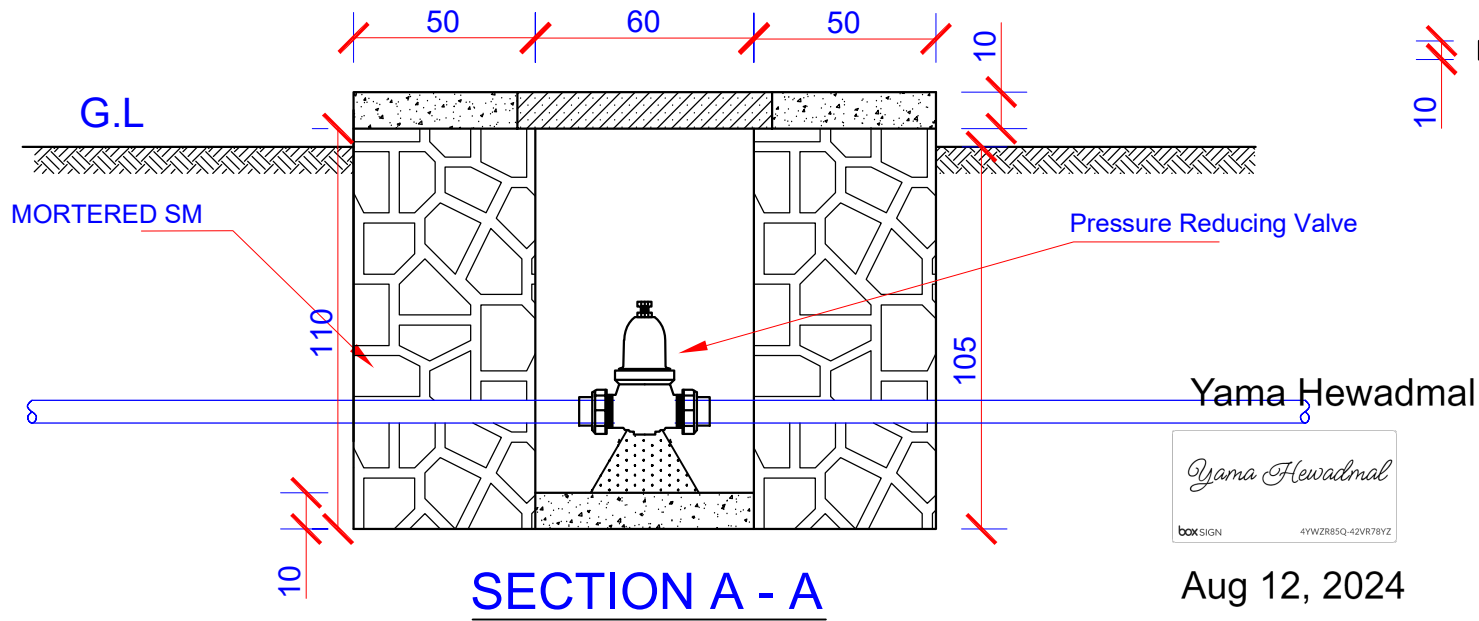
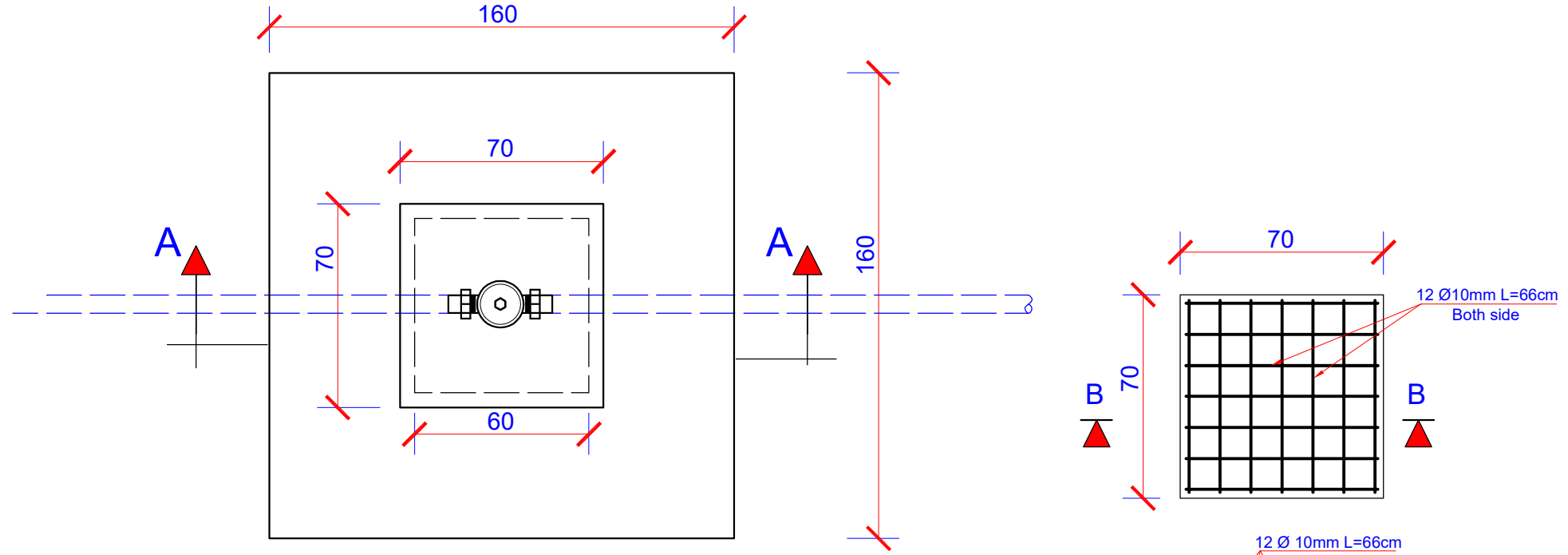
Farooq Jawid

Farooq Jawid
boxSIGN 1JRW5KYR-4ZVR78YZ

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Water Distribution sytem PRV Valve



Section B-B

Yama Hewadmal

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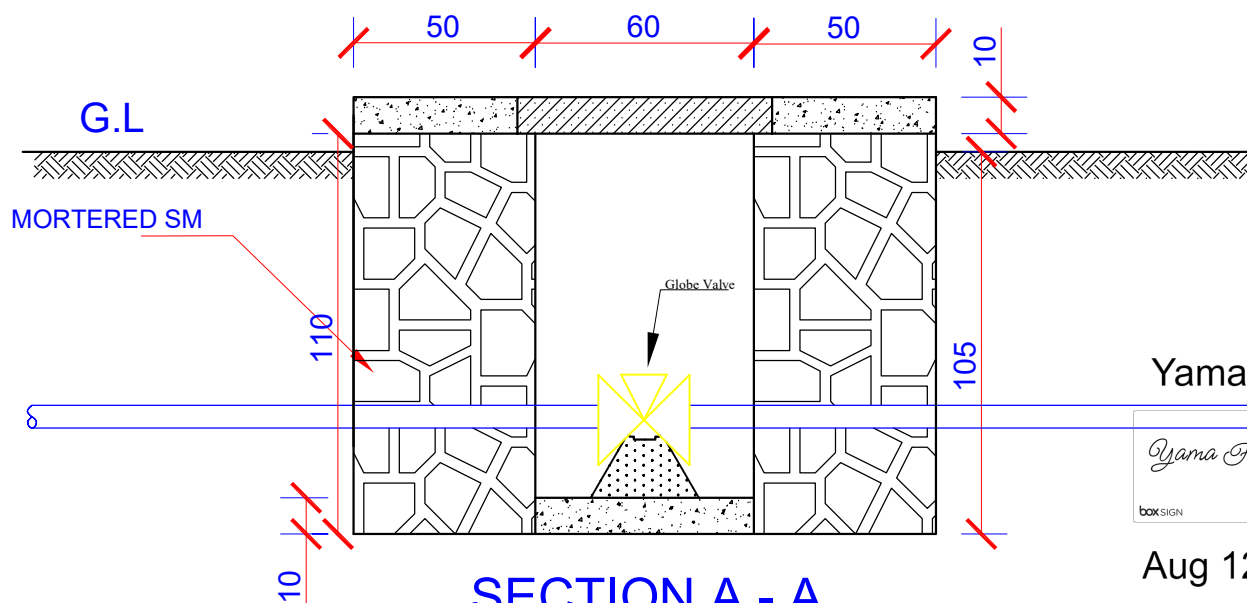
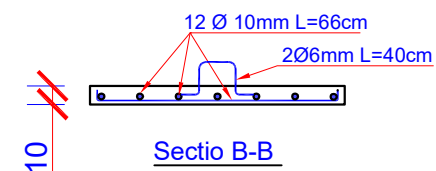
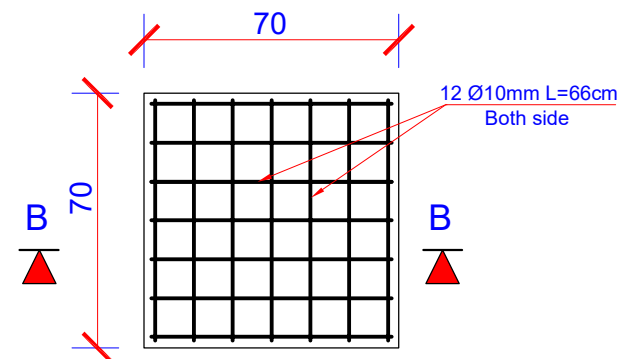
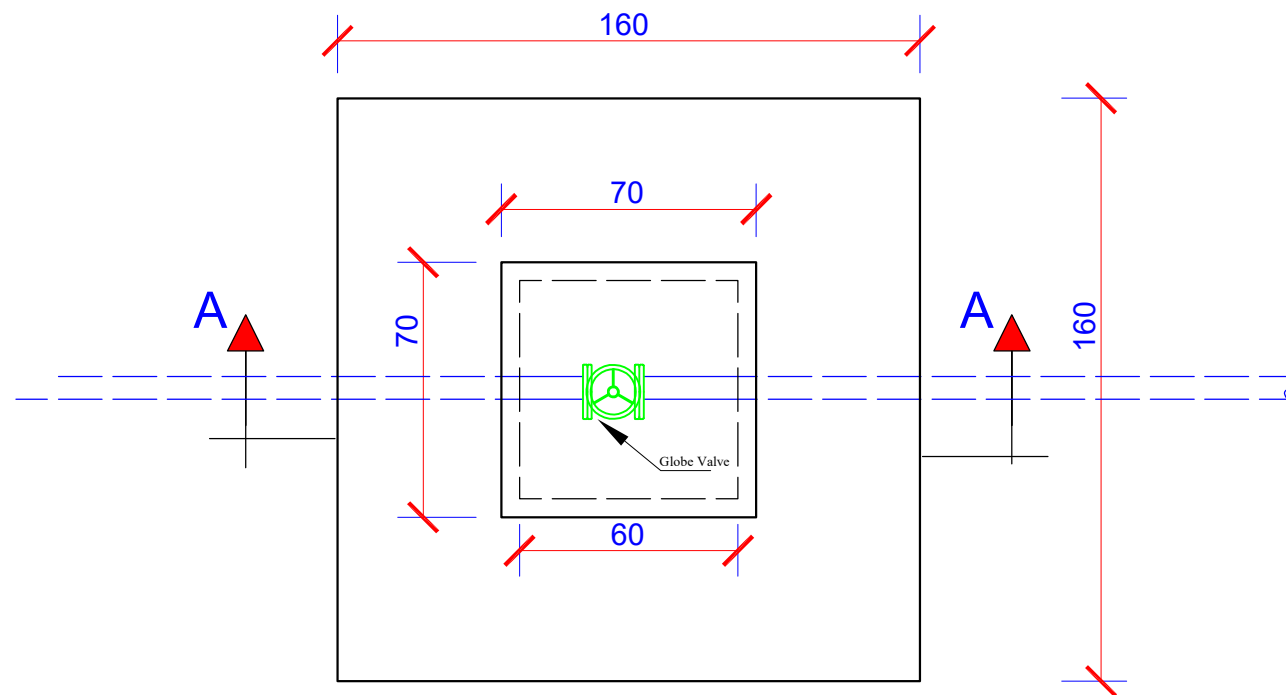
Yama Hewadmal

Farooq Jawid

Aug 12, 2024

Aug 13, 2024

Water Distribution sytem FCV Valve



SECTION A - A

Yama Hewadmal

Yama Hewadmal
box SIGN 4YWZR85Q-42VR78YZ

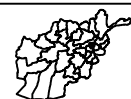
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Farooq Jawid

Farooq Jawid
box SIGN 1JRW5KYR-42VR78YZ

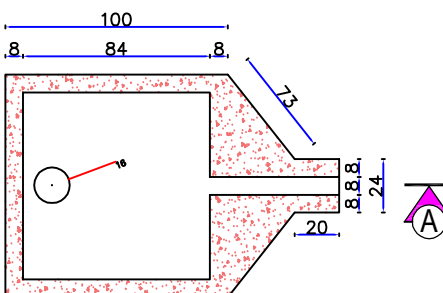
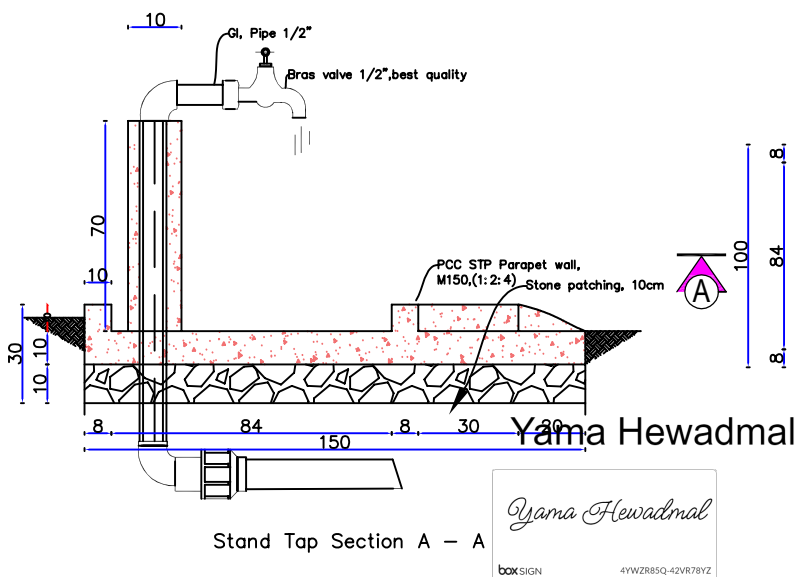
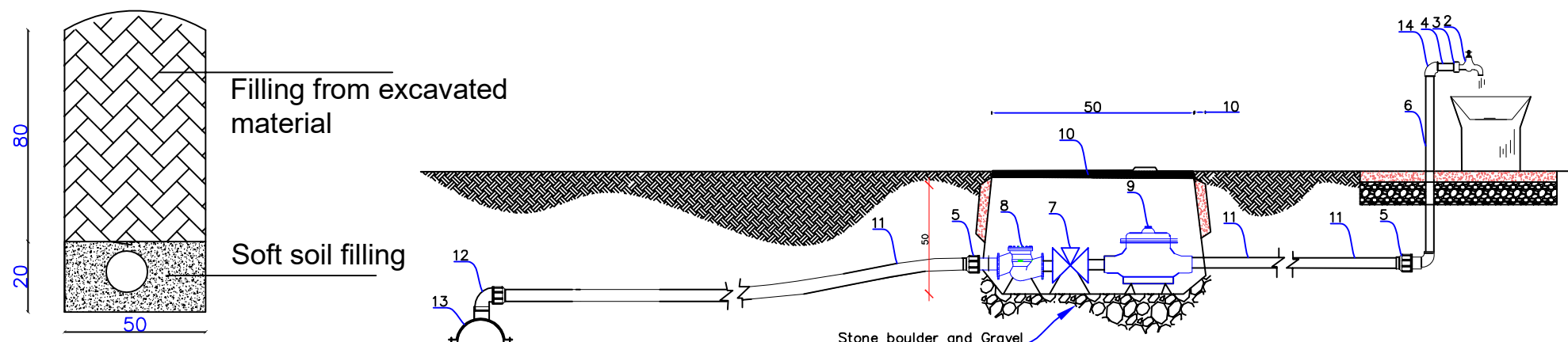
Aug 13, 2024

Aug 12, 2024



Branch pipe section

House Connection design



Note: All stand taps should be made according to the maps.
Around all stand taps, there should be backfilling and use 10cm crush gravel.
All stand taps should be uncoiled painting, and for better visibility installation of Logos.
PCC work for STP and Apron Parapet wall should be M150(1:2:4).
All STPs should be curing 7day.

STPs Plan

Table -1 (STP FITTINGS DETAILS for STP 1& 70)

No	Descriptions	Unit	Quantity/ Tap	Total	Remark
1	Supply main Pipe	LM			
2	GI Tap 1/2"	No	1	70	
3	GI Socket 1/2"	No	1	70	
4	Nipple 1/2"	NO	1	70	
5	Female Elbow 1/2"	No	2	140	
6	GI Pipe 1/2"	M	3	210	
7	Stainless Steel GV 1/2"	No	1	70	
8	Stainless Steel CV 1/2"	No	1	70	
9	Water Meter(Frasang) 1/2"	No	1	70	
10	Plastic Meter Box	No	1	70	
11	PE Pipe 20mm PN16 bar	M	25	1750	
12	PE Male Adapter	No	1	70	
13	PE Saddle Clamp Different Pipe Diameter size to 1/2 inch	No	1	70	
14	GI Elbow 1/2 inch	No	1	70	

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