

LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Gravel Fill
	Concrete Slab (Road)
	Lean Concrete
	Road Vertical Profile
	Proposed Stormwater Culvert
	Excavation Line
	Existing Ground Level
	Proposed Excavated Ground Line (Phase I)
	Existing Culvert (Plan View)
	Proposed Overflow (Plan View)
	Section
	Road Alignment (Plan View)
	Dilatation Joint (See DD-A17)

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The construction of the stairs road shall be done alongside the concrete stairs, this due to the fact that the road shall be positioned above gravel filling. In progressives 81-83 (a length of 2m in plan) where the proposed 1x3m manhole is set to be placed, the road section will pass above the manhole (except the manhole cover and frame, which will be matched later to the concrete road).
 - Road Cross Sections are the same as for the Walls and Stairs (See DD-C-CS-SAS-01 to 06)

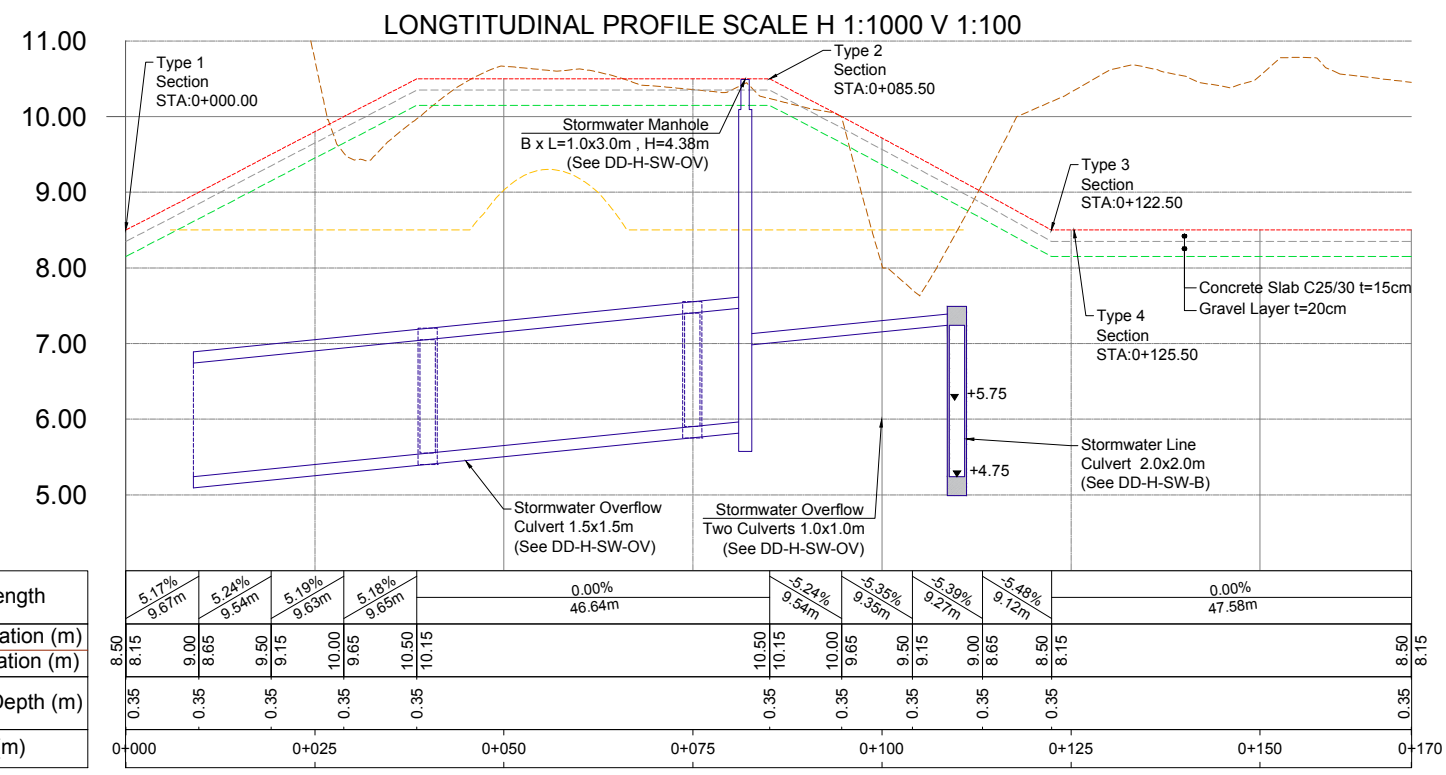
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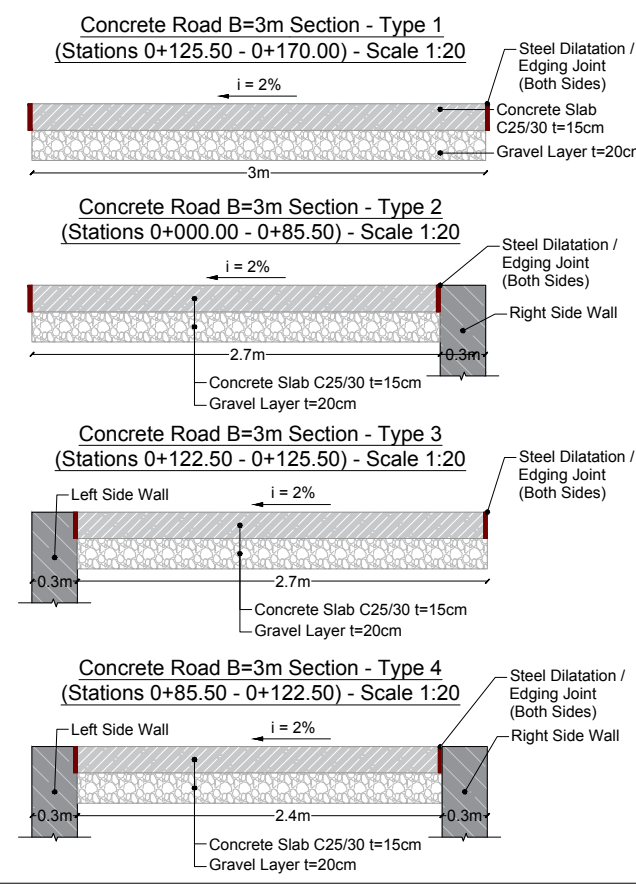
DD-C-LP-SAR-01 Sport Area Road Longitudinal Profile			
Drawing number	Description	Scale	Date
Detailed Design	420 x 297 mm	1:1000	13-10-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkoda		
Project number	Project name		
casanova+hernandez architects			
SRP Schneider & Partner, Ingenieur-Consult GmbH			
SRP Albanian Engineering sh.p.k.			

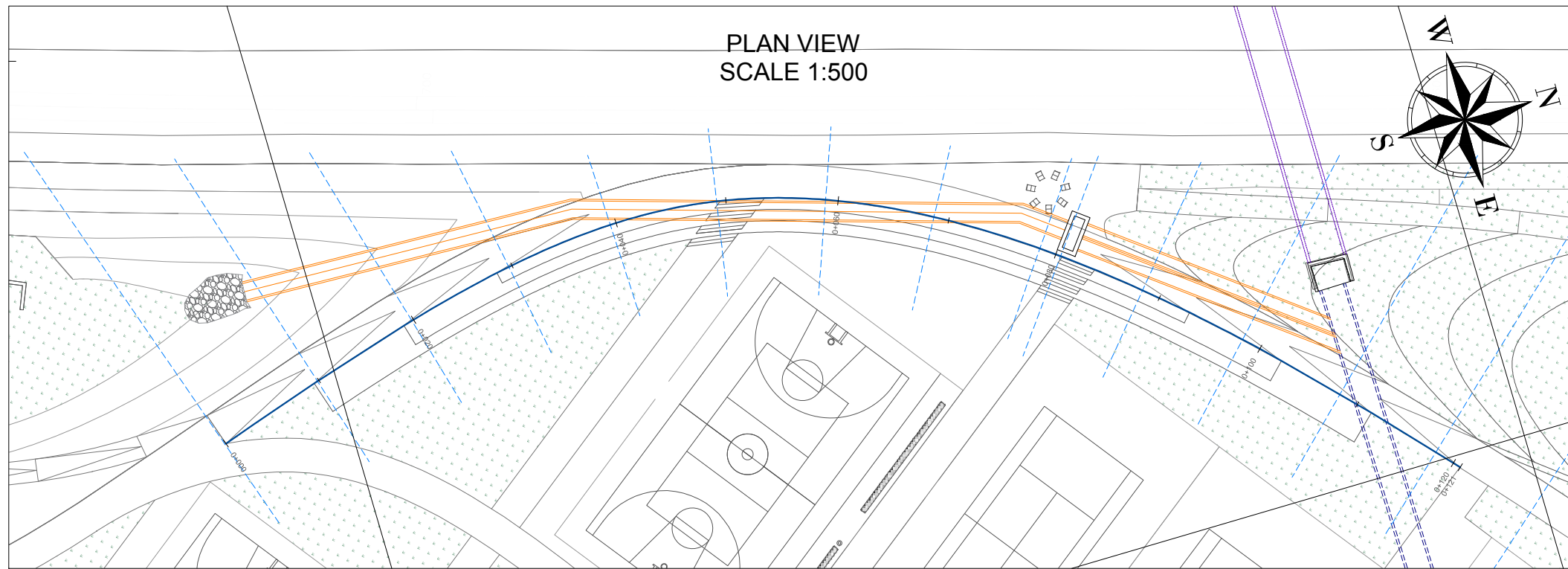


Slope + Length
Ground Elevation (m)
Design Elevation (m)
Excavation Depth (m)
Station (m)

Slope	Length	Ground Elevation (m)	Design Elevation (m)	Excavation Depth (m)	Station (m)
5.17%	9.67m	8.50	8.15	0.35	0+000
5.24%	9.54m	9.00	8.65	0.35	0+025
5.19%	9.63m	9.50	9.15	0.35	0+050
5.18%	9.65m	10.00	9.65	0.35	0+075
0.00%	46.64m	10.50	10.15	0.35	0+100
-5.24%	9.54m	10.00	9.65	0.35	0+125
-5.35%	9.35m	9.50	9.15	0.35	0+150
-5.39%	9.27m	9.00	8.65	0.35	0+175
-5.48%	9.12m	8.50	8.15	0.35	0+200
0.00%	47.58m	8.50	8.15	0.35	0+225

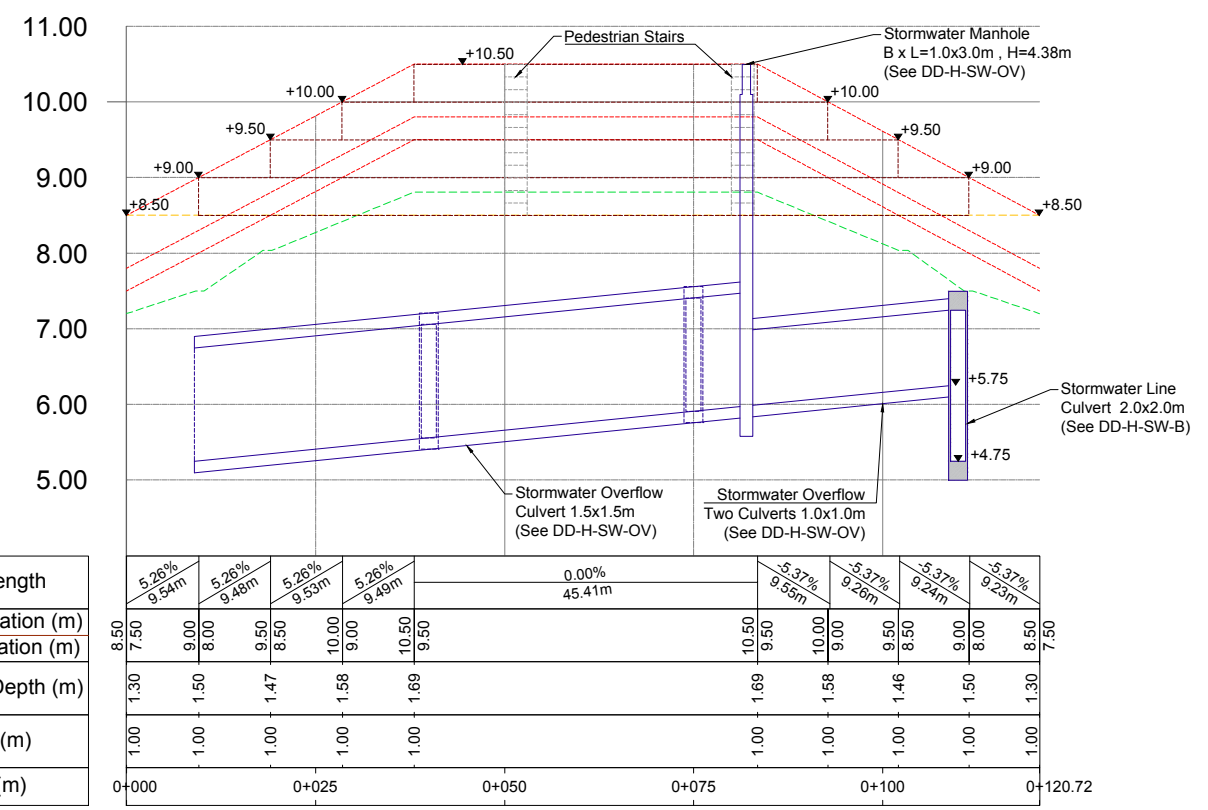
ROAD VOLUMES TABLE			
CIVIL WORKS	Excavation	Concrete C 25 / 30 - Road	Gravel Layer 20cm - Road
UNIT	m ³	m ³	m ³
VALUE	53.55	70.07	93.43
			Dilatation Joint
			ml
			344.00



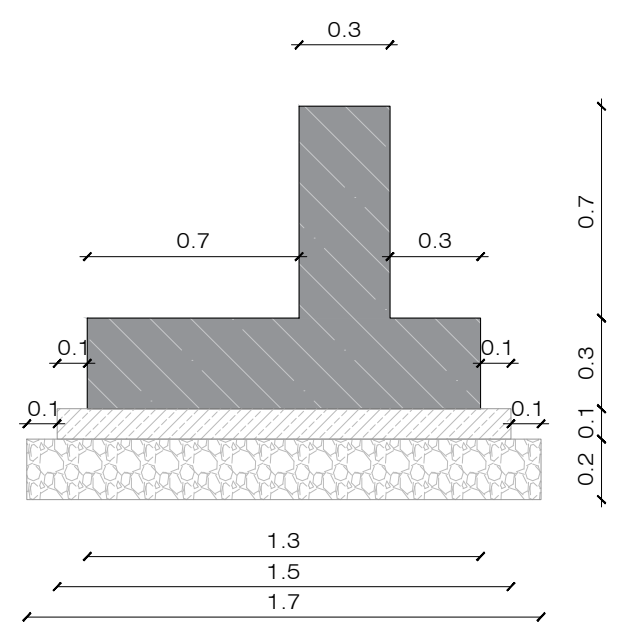


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LONGITUDINAL PROFILE
SCALE H 1:1000 V 1:100



RETAINING WALL SECTION
SCALE 1:25

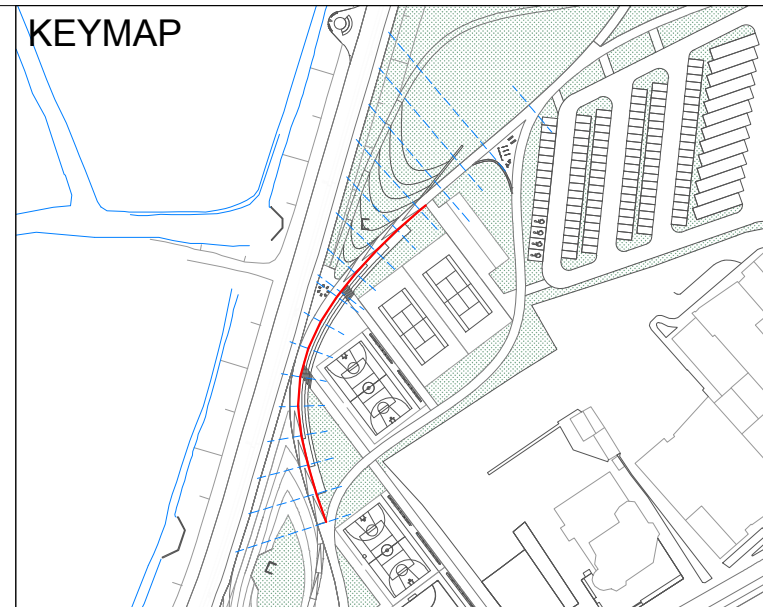


Slope + Length										
Ground Elevation (m)	8.50	9.00	9.50	10.00	10.50	10.50	10.00	9.50	9.00	8.50
Design Elevation (m)	7.50	8.00	8.50	9.00	9.50	9.50	9.00	8.50	8.00	7.50
Excavation Depth (m)	1.30	1.50	1.47	1.58	1.69	1.69	1.58	1.46	1.50	1.30
Height (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Station (m)	0+000	0+025	0+050	0+075	0+100	0+100	0+125	0+150	0+175	0+200

Slope + Length	5.26% 9.54m	5.26% 9.48m	5.26% 9.53m	5.26% 9.49m	0.00% 45.41m	-5.37% 9.55m	-5.37% 9.26m	-5.37% 9.24m	-5.37% 9.23m
Ground Elevation (m)	8.50	9.00	9.50	10.00	10.50	10.50	10.00	9.50	9.00
Design Elevation (m)	7.50	8.00	8.50	9.00	9.50	9.50	9.00	8.50	8.00
Excavation Depth (m)	1.30	1.50	1.47	1.58	1.69	1.69	1.58	1.46	1.50
Height (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Station (m)	0+000	0+025	0+050	0+075	0+100	0+100	0+125	0+150	0+175

WALL VOLUMES TABLE			
CIVIL WORKS	Concrete C 25 / 30 - Wall	Gravel Layer 20cm - Wall	Lean Concrete 10cm - Wall
UNIT	m ³	m ³	m ³
VALUE	72.43	41.05	18.11

NOTES : Excavation and fill have already been calculated in whole sections at DD-C-CS-SAS-01 to 06.



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Gravel Fill
	Reinforced Concrete
	Lean Concrete
	Top and Bottom Line of Retaining Wall
	Proposed Stormwater Culvert
	Excavation Line (for Stairs or Walls)
	Existing Ground Level
	Proposed Excavated Ground Line (Phase I)
	Existing Culvert (Plan View)
	Proposed Overflow (Plan View)
	Concrete Stairs
	Section
	Wall Alignment (Plan View)

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - The construction of the stairs road shall be done alongside the concrete stairs, this due to the fact that the road shall be positioned above gravel filling. In progressives 81-83 (a length of 2m in plan) where the proposed 1x3m manhole is set to be placed the wall section will only have the right side L-shape (without the left 0.7m) due to clashing/positioning of structures. This does not impose any problems on the structural capacity of the wall as it is continued and on that specific station does not have any load on the side.

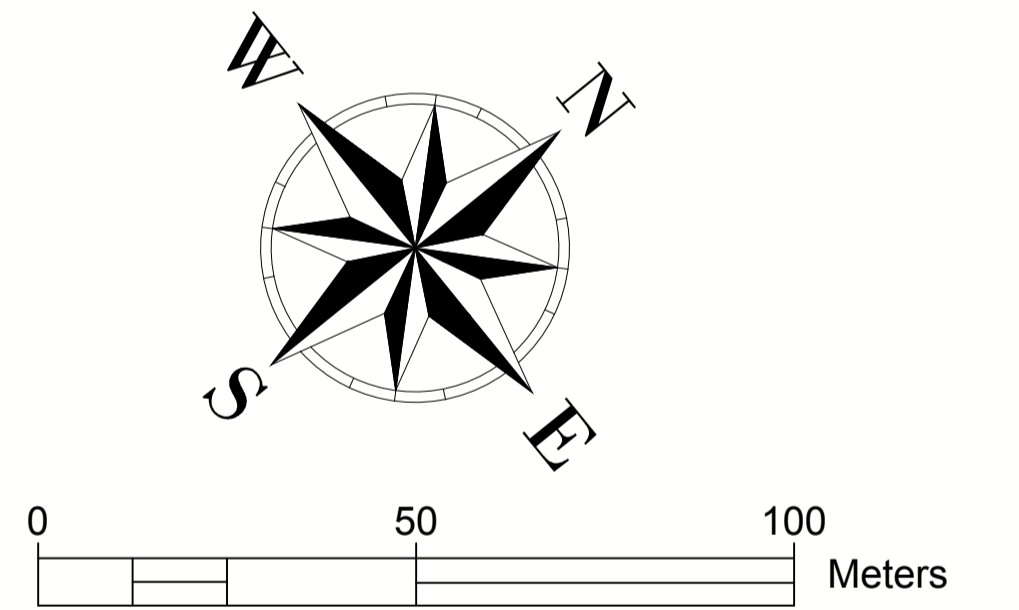
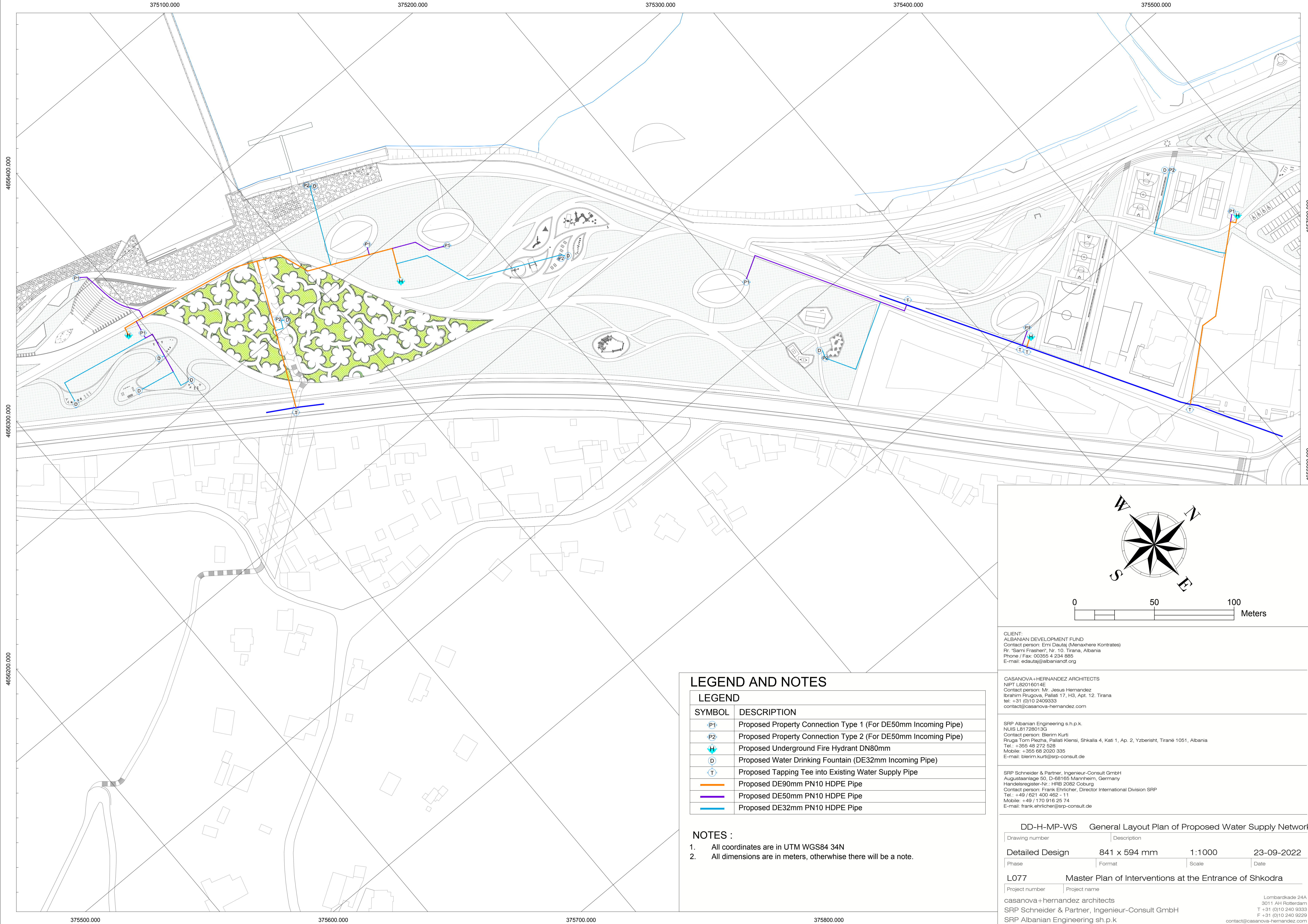
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DD-C-LP-SARW-01 Sport Area Right Side Wall Longitudinal Profile			
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	13-10-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects	Lombarikade 24A, 3011 AH Rotterdam, T +31 (0)10 240 9033, F +31 (0)10 240 9029, contact@casanova-hernandez.com		
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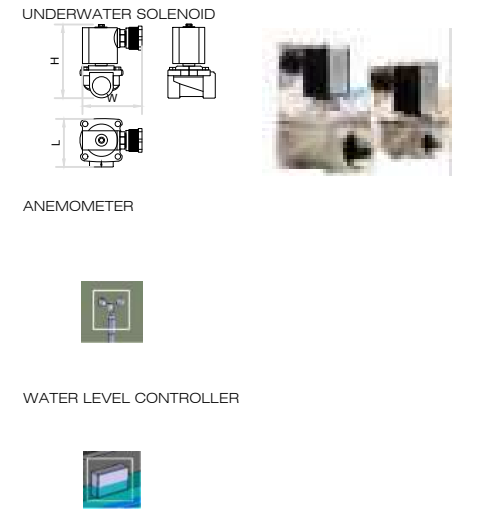
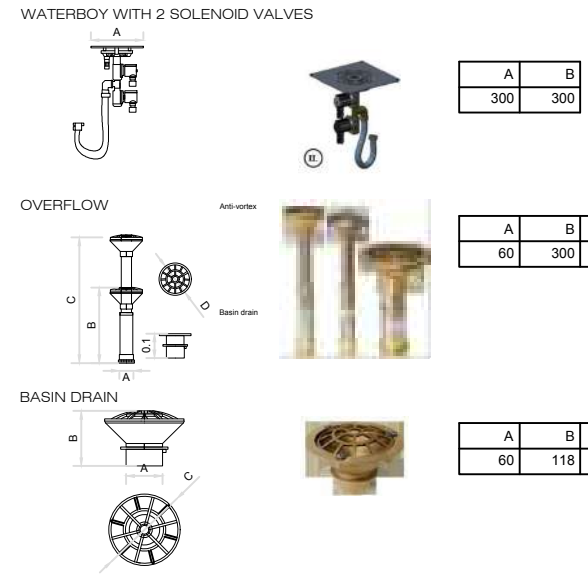
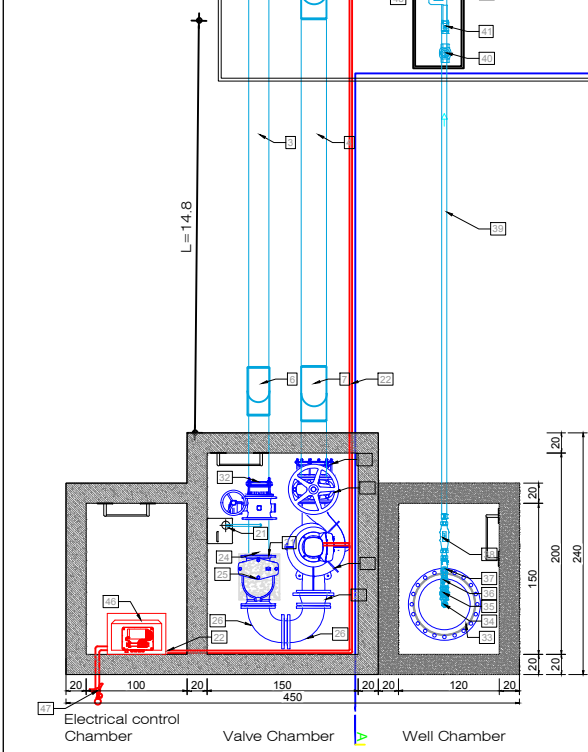
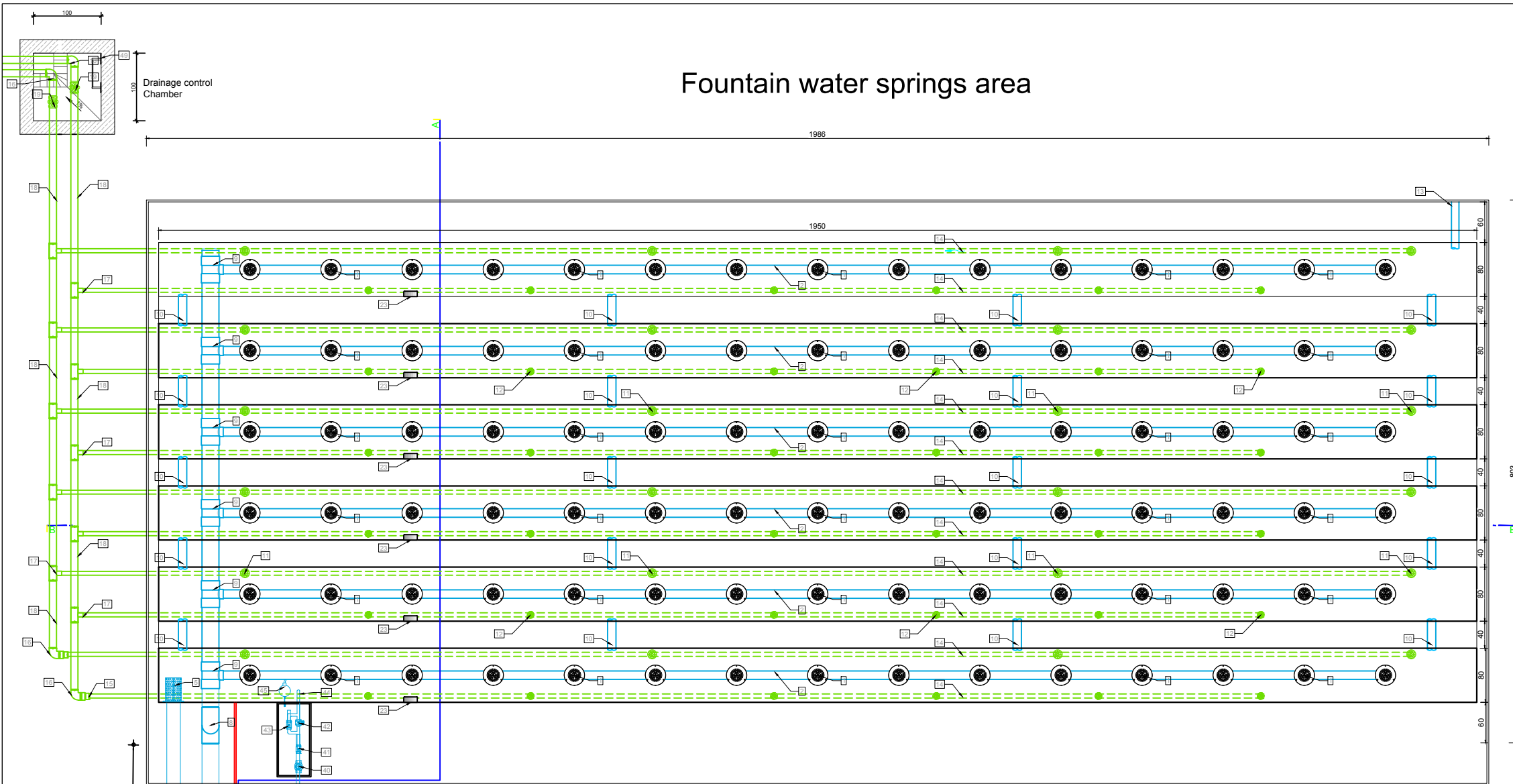
LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Property Connection Type 1 (For DE50mm Incoming Pipe)
	Proposed Property Connection Type 2 (For DE50mm Incoming Pipe)
	Proposed Underground Fire Hydrant DN80mm
	Proposed Water Drinking Fountain (DE32mm Incoming Pipe)
	Proposed Tapping Tee into Existing Water Supply Pipe
	Proposed DE90mm PN10 HDPE Pipe
	Proposed DE50mm PN10 HDPE Pipe
	Proposed DE32mm PN10 HDPE Pipe

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.

DD-H-MP-WS General Layout Plan of Proposed Water Supply Network			
Drawing number	Description		
Detailed Design	841 x 594 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+herandez architects			
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Fountain water springs area



LEGEND AND NOTES

MATERIALS

LIST OF MATERIALS			
ITEM	DESCRIPTION	UNITS	QUANTITIES
1	WATERBOY PLUS WITH 2 SOLENOID VALVES / NJESI SHATERVANI ME 2 VALVULA KOMANDIMI	pcs	90
2	HDPE PIPE DN 125mm / TUB HDPE DN 125mm	ml	108
3	SUCTION PIPE DN 200mm / TUBI THITHJES DN 200mm	ml	16.5
4	DISTRIBUTION MANIFOLD PIPE HDPE DN 250mm/ TUB SHPERNDARES HDPE DN 250mm	ml	25
5	STRAINER DN 225mm / FILTER DN 250mm	pcs	1
6	BEND 90 DN 200mm / BRRYL 90 DN 200mm	pcs	2
7	BEND 90 DN 250mm / BRRYL 90 DN 250mm	pcs	2
8	BEND 45 DN 250mm / BRRYL 45 DN 250mm	pcs	2
9	TEE DN 250/125mm / T DN 250/125mm	pcs	6
10	COMMUNICATION PIPE DN 125mm / TUBAT E KOMUNIKIMIT NDERMJET KANALEVE DN 125mm	pcs	24 (L=0.5m)
11	OVERFLOW / TEPERPLOTESI	pcs	24
12	OUTLET / TUBI SHKARRIMI	pcs	36
13	DRAIN PIPE FROM PERIMETER / TUB SHKARKIMI TE PERIMETRIT ANESORE	ml	2.4m
14	DRAIN PIPE DN 63mm / TUB E DRENAZHEVE DN 63mm	ml	220
15	ADAPTOR HDPE DN 63/110mm / ADAPTOR HDPE DN 63/110mm	pcs	2
16	BEND 90 HDPE DN 110mm / BEND 90 HDPE DN 110mm	pcs	4
17	TEE DN 63-110mm / T DN 63-110mm	pcs	10
18	DRAIN PIPE DN 110mm / TUB E DRENAZHEVE DN 110mm	ml	30
19	GATE VALVE DN 110mm / SARACINESKE DN 110mm	pcs	2
20	PERIMETER CANAL WITH GRID / DRENAZHE NE PERIMETRIN ANESORE	ml	60
21	CHLORINE UNIT / NJESI KLORINIMI	pcs	1
22	CABLE BUSHING / KABELL SHPERNDARES ELEKTRIK	ml	300
23	LEVEL PROBE / SENSORE NIVELI	pcs	6
24	BUTTERFLY VALVE DN 200mm/ VALVUL KONTROLLI DN 200mm	pcs	1
25	NON RETURN VALVE DN 200mm / VALVUL MOSKTHIMI DN 200mm	pcs	1
26	BEND 90 STEEL DN 200mm / BRRYL 90 CELIK DN 200mm	pcs	2
27	REDUCER DN 200-225mm / REDUKTOR DN 200-225mm	pcs	1
28	GATE VALVE DN 250mm / SARACINESKE DN 250mm	pcs	1
29	ADAPTOR DN 250-250mm	pcs	1
30	CIRCULATION PUMP Q=8l/s, H=3m	pcs	1
31	THRUST BLOCK	pcs	1
32	ADAPTOR DN 200-200mm	pcs	1
33	FLANGE DN 700 / FLANXHE DN 700	pcs	1
34	PRESSURE METERING / MATES PRESIONI	pcs	1
35	GATE VALVE DN 50mm / SARACINESKE DN 50mm	pcs	1
36	NON RETURN VALVE DN 50mm / VALVUL MOSKTHIMI DN 50mm	pcs	1
37	STRAINER DN 50mm / FILTER DN 50mm	pcs	1
38	WATER METER DN 50mm / MATES UJI DN 50mm	pcs	1
39	HDPE PIPE DN 50mm / TUB HDPE DN 50mm	ml	15
40	RETENTION VALVE / VALVUL KONTROLLI	pcs	1
41	MAIN OPENING AND CLOSING VALVE(WATER CONTROL)	pcs	1
42	AUTOMATIC FILLING SOLENOID VALVE/ VALVUL KOMANDIMI AUTOMATIKE	pcs	1
43	MANUAL FILLING VALVE / VALVUL MANUALE KOMANDIMI	pcs	1
44	BEND DN 50 / BRRYL DN 50	pcs	1
45	FLOAT VALVE / GALIXHANT	pcs	1
46	CONTROL PANNEL / PANEL KONTROLLI TE SHATERVANEVE	pcs	1
47	ANEMOMETER / MATES ERE	pcs	1

GENERAL

ITEM	DESCRIPTION
48	MANHOLE COVER 40KN, 600mm/ KAPAK PUSETE 40KN, 600mm
49	STEEL STAIR/ SHKALLE CELIKU
50	MANHOLE COVER

NOTES

- All coordinates are in UTM WGS84 38N
- All fittings requires PN16

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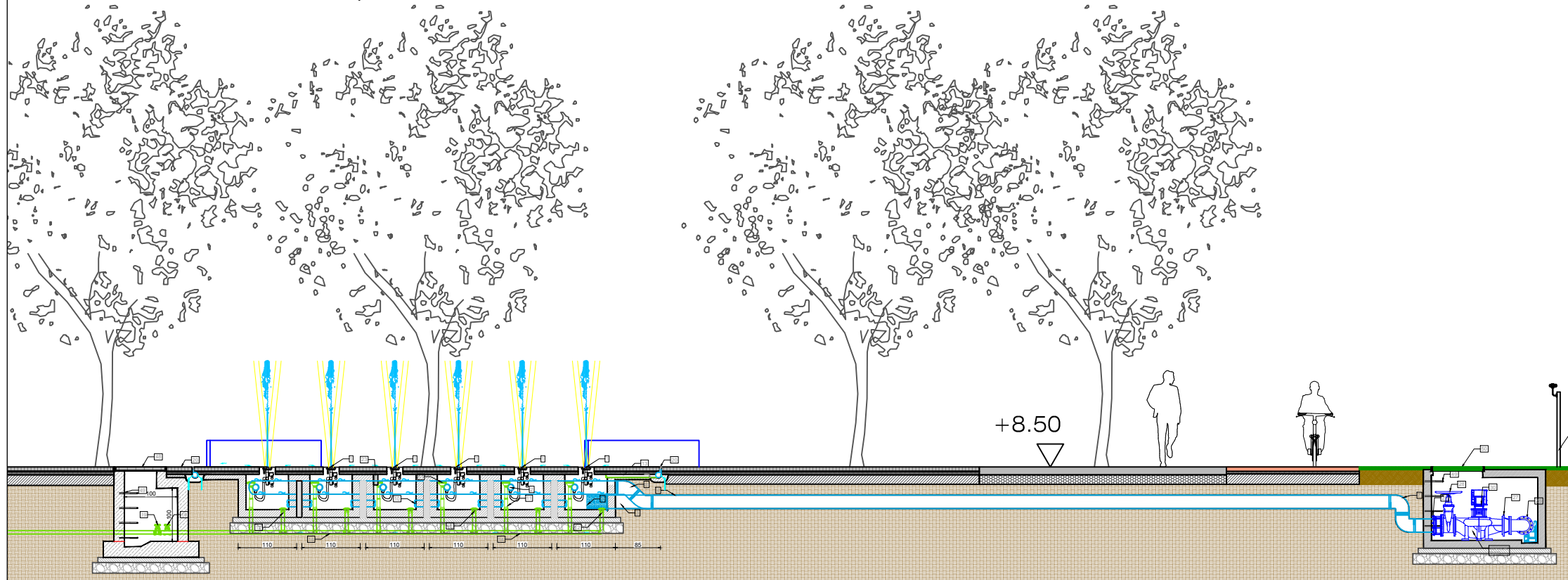
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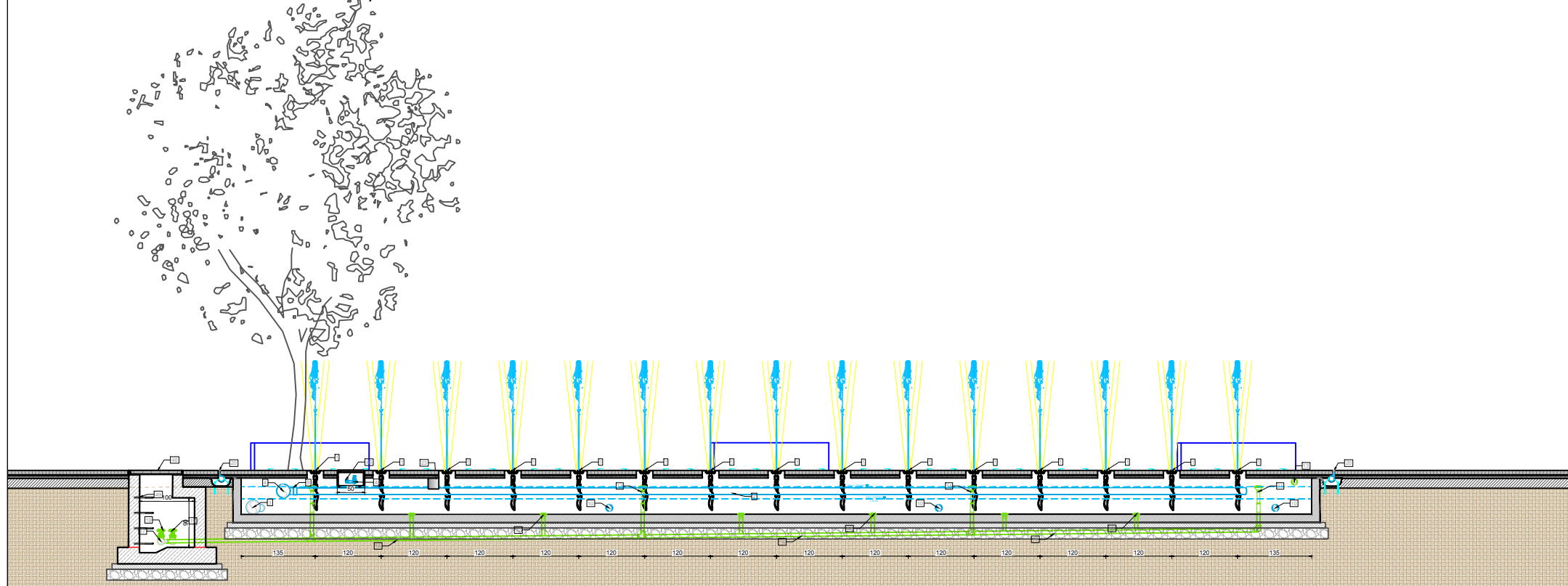
DD-H-WS-F-01		Dry Deck Fountain Plan & Details	
Drawing number	Description		
Detailed Design	420 x 297 mm	1:75	05-10-2022
Phase	Format	Scale	Date
L077		Master Plan of Interventions at the Entrance of Shkodra	
Project number	Project name		
casanova+hernandez architects			
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SECTION A-A / SEKSIONI A-A



SECTION B-B / SEKSIONI B-B



MATERIALS

LIST OF MATERIALS

ITEM	DESCRIPTION	UNITS	QUANTITIES
1	WATERBOY PLUS WITH 2 SOLENOID VALVES / NJESI SHATERVANI ME 2 VALVULA KOMANDIMI	pcs	90
2	HDPE PIPE DN 125mm / TUB HDPE DN 125mm	ml	108
3	SUCTION PIPE DN 200mm / TUBI I THITHJES DN 200mm	ml	16.5
4	DISTRIBUTION MANIFOLD PIPE HDPE DN 250mm/ TUB SHPERNDARES HDPE DN 250mm	ml	25
5	STRAINER DN 225mm / FILTER DN 250mm	pcs	1
6	BEND 90 DN 200mm / BRRYL 90 DN 200mm	pcs	2
7	BEND 90 DN 250mm / BRRYL 90 DN 250mm	pcs	2
8	BEND 45 DN 250mm / BRRYL 45 DN 250mm	pcs	2
9	TEE DN 250/125mm / T DN 250/125mm	pcs	6
10	COMMUNICATION PIPE DN 125mm / TUBAT E KOMUNIKIMIT NDERMJET KANALEVE DN 125mm	pcs	24 / L=0.5m
11	OVERFLOW / TEPERPLOTESI	pcs	24
12	OUTLET / TUBI SHKARKIMI	pcs	36
13	DRAIN PIPE FROM PERIMETER / TUB SHKARKIMI TE PERIMETRIT ANESORE	ml	2.4m
14	DRAIN PIPE DN 63mm / TUB E DRENAZHEVE DN 63mm	ml	220
15	ADAPTOR HDPE DN 63/110mm / ADAPTOR HDPE DN 63/110mm	pcs	2
16	BEND 90 HDPE DN 110mm / BEND 90 HDPE DN 110mm	pcs	4
17	TEE DN 63-110mm / T DN 63-110mm	pcs	10
18	DRAIN PIPE DN 110mm / TUB E DRENAZHEVE DN 110mm	ml	30
19	GATE VALVE DN 110mm / SARACINESKE DN 110mm	pcs	2
20	PERIMETER CANAL WITH GRID / DRENAZHE NE PERIMETRIN ANESORE	ml	60
21	CHLORINE UNIT / NJESI KLORINIMI	pcs	1
22	CABLE BUSHING / KABELL SHPERNDARES ELEKTRIK	ml	300
23	LEVEL PROBE / SENSORE NIVELI	pcs	6
24	BUTTERFLY VALVE DN 200mm/ VALVUL KONTROLLI DN 200mm	pcs	1
25	NON RETURN VALVE DN 200mm / VALVUL MOSKTHIMI DN 200mm	pcs	1
26	BEND 90 STEEL DN 200mm / BRRYL 90 CELIK DN 200mm	pcs	2
27	REDUCER DN 200-225mm / REDUKTOR DN 200-225mm	pcs	1
28	GATE VALVE DN 250mm / SARACINESKE DN 250mm	pcs	1
29	ADAPTOR DN 250-250mm	pcs	1
30	CIRCULATION PUMP Q=8l/s, H=3m	pcs	1
31	THRUST BLOCK	pcs	1
32	ADAPTOR DN 200-200mm	pcs	1
33	FLANGE DN 700 / FLLANXHE DN 700	pcs	1
34	PRESSURE METERING / MATES PRESIONI	pcs	1
35	GATE VALVE DN 50mm / SARACINESKE DN 50mm	pcs	1
36	NON RETURN VALVE DN 50mm / VALVUL MOSKTHIMI DN 50mm	pcs	1
37	STRAINER DN 50mm / FILTER DN 50mm	pcs	1
38	WATER METER DN 50mm / MATES UJI DN 50mm	pcs	1
39	HDPE PIPE DN 50mm / TUB HDPE DN 50mm	ml	15
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43	MANUAL FILLING VALVE / VALVUL MANUALE KOMANDIMI	pcs	1
44	BEND DN 50 / BRRYL DN 50	pcs	1
45	FLOAT VALVE / GALDXHANT	pcs	1
46	CONTROL PANNEL / PANEL KONTROLLI TE SHATERVANEVE	pcs	1
47	ANEMOMETER / MATES ERE	pcs	1

GENERAL

ITEM	DESCRIPTION
48	MANHOLE COVER 40kN, 600mm/ KAPAK PUSETE 40kN, 600mm
49	STEEL STAIR/ SHKALLE CELIKU
50	MANHOLE COVER

NOTES

- All coordinates are in UTM WGS84 38N
- All fittings requires PN16

CLIENT:
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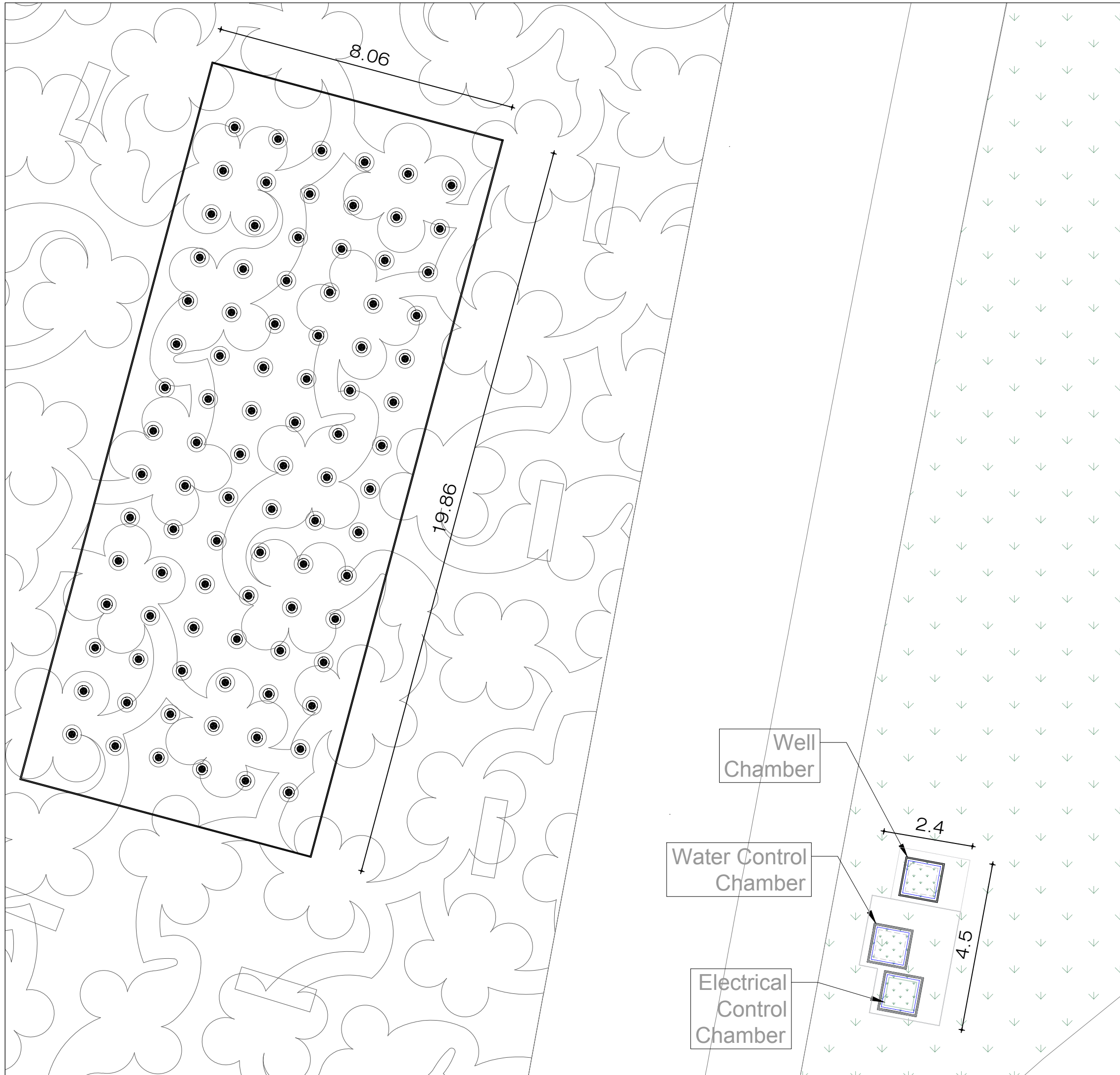
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DD-H-WS-F-02		Dry Deck Fountain Sections	
Drawing number	Description		
Detailed Design	420 x 297 mm	1:100	05-10-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		

casanova+hernandez architects
SRP Schneider & Partner, Ingenieur-Consult GmbH
SRP Albanian Engineering sh.p.k.



- Compacted red gravel / Zhavorri i kompaktësuar i kuq
- Compacted light grey gravel / Zhavorri i kompaktësuar gjelbër e i lehtë
- Fine picked granite cobblestone black and white (8cm / central axis) / Kalldrëmi graniti i zgjedhur mirë (8 cm), e zeze dhe e bardhe (boshti qendror)
- Red asphalt with symbol of bicycle path / asfalti i kuq ne rrugen e biçikletave
- Sand / Rërë
- Wood / dru
- New covering vegetation / Mbulim me bimesa te re
- Hard outdoor surface for sports: Synthetic Grass on asphalt layer / Shtresa per fush sportive: Bar sintetik mbi shtrese asfalti. Color: green / Ngjyra: jeshile
- Hard outdoor surface for sports: Synthetic Acrylic on asphalt layer / Shtresa per fush sportive: Akrilik sintetik mbi shtrese asfalti. Color: pink / Ngjyra: roze
- Hard outdoor surface for sports: Synthetic Acrylic on asphalt layer / Shtresa per fush sportive: Akrilik sintetik mbi shtrese asfalti. Color: blue / Ngjyra: blu
- Asphalt / asfalto
- Concrete / beton
- Water collector grill/zgare mbledhese e ujerave
- Existing tree / pemë existuese
- New tree / pemë e re

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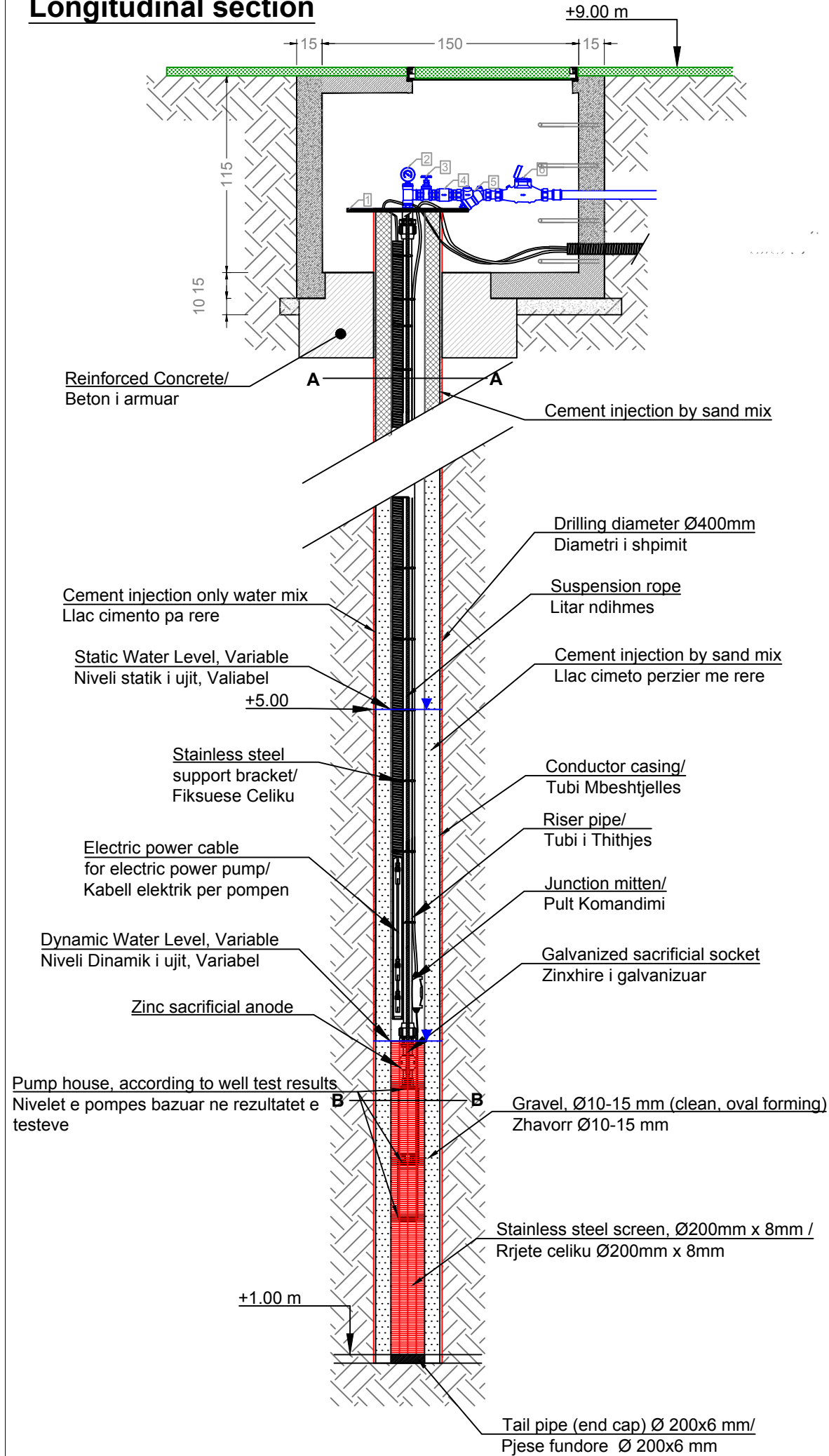
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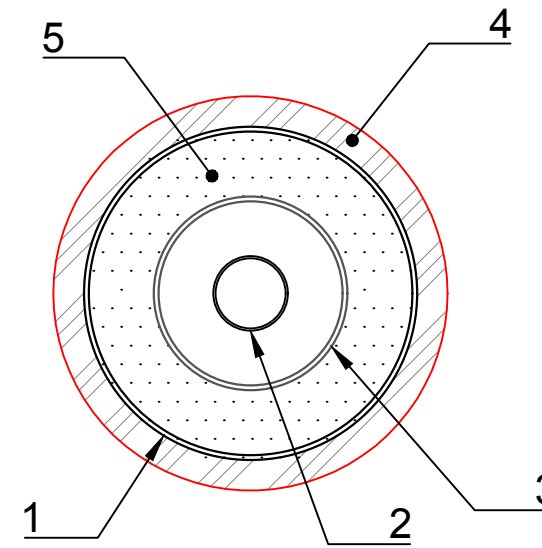
SRP Schneider & Partner, Ingenieur-Consult GmbH
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DD-H-WS-F-03		Dry Deck Fountain Layout Plan	
Drawing number	Description		
Detailed Design	420 x 297 mm	1:100	05-10-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects			
SRP Schneider & Partner, Ingenieur-Consult GmbH			
SRP Albanian Engineering sh.p.k.			

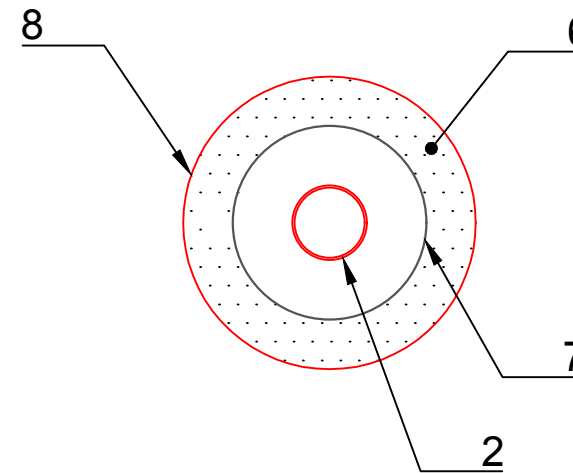
Longitudinal section



Section A-A / Seksioni A-A



Section B-B / Seksioni B-B



1. Conductor casing, Ø300mm x 8mm / Diametri e përcjellësit Ø300mm x 8mm
2. Riser Pipe DN50 L=7m / Tubi i thithjes DN50 L=7m
3. Stainless steel casing, Ø200mm x 8mm / Kase mbrojtëse Ø200mm x 8mm
4. Cement injection only water mix / Llac cimento pa rere
5. Cement injection by sand mix / Llac cimento perzier me rere
6. Gravel, Ø10-15 mm (clean, oval forming) / Zhavorr Ø10-15 mm
7. Stainless steel screen, Ø200mm x 8mm / Rrjete celiku Ø200mm x 8mm
8. Drilling diameter Ø400mm/ Diametri i shpimit

LEGEND AND NOTES

MATERIAL

MATERIAL LIST AND SPECIFICATIONS

ITEM	DESCRIPTION	UNIT	QTY
1	FLANGE DN 700mm/ FLLANXHE DN 700mm	pcs	2
2	PRESSURE METERING / MATES PRESIONI	pcs	1
3	GATE VALVE DN 50mm / SARACINESKE DN 50mm	pcs	1
4	NON RETURN VALVE DN 50mm/ VALVUL MOSKTHIMI DN 50mm	pcs	1
5	STRAINER DN 50mm / FILTER DN 50mm	pcs	1
6	WATER METER DN 50mm / MATES UJI DN 50mm	pcs	1

NOTES

1. All coordinates are in UTM WGS84 38N
2. All Fittings requires PN16
3. All Dimensions are in cm unless otherwise noted.
4. Breezing of the puddle flange have to be integrated with the chamber reinforcement. No welding will be permitted.
5. Splice have to be done as specified on the technical specifications.
6. Concrete class shall be C25 unless otherwise noted.

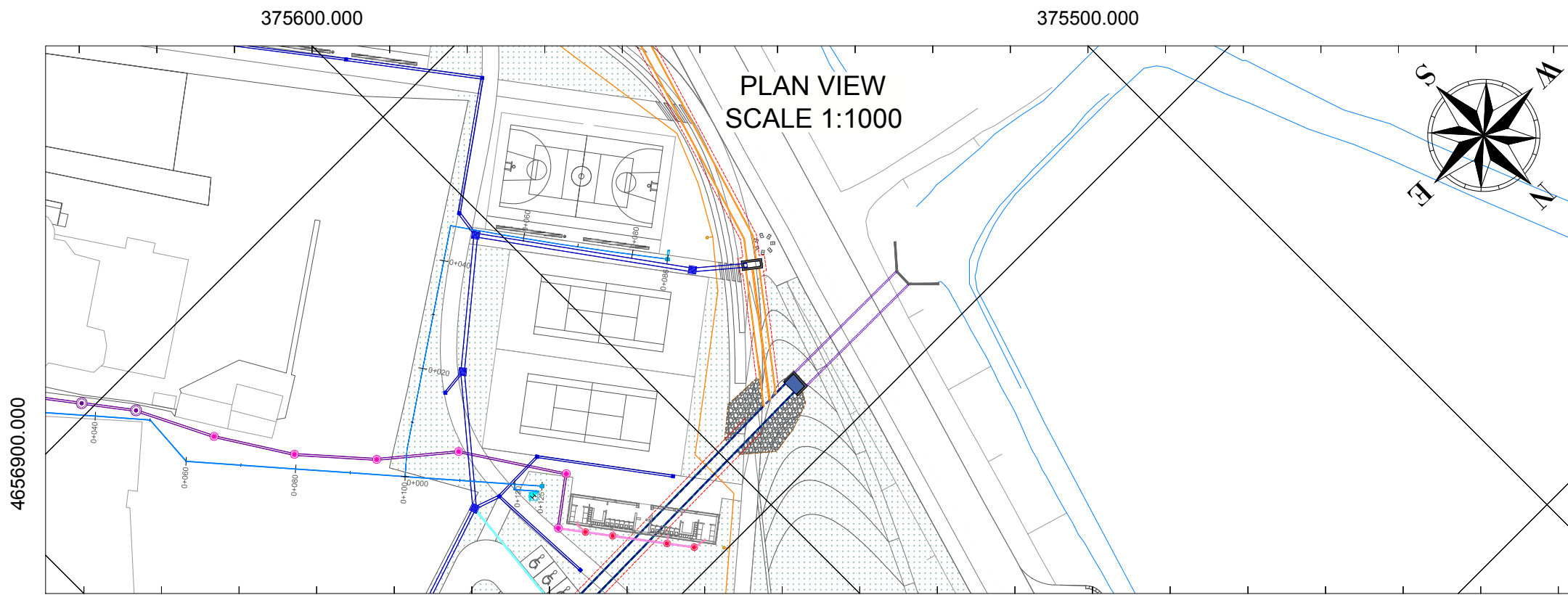
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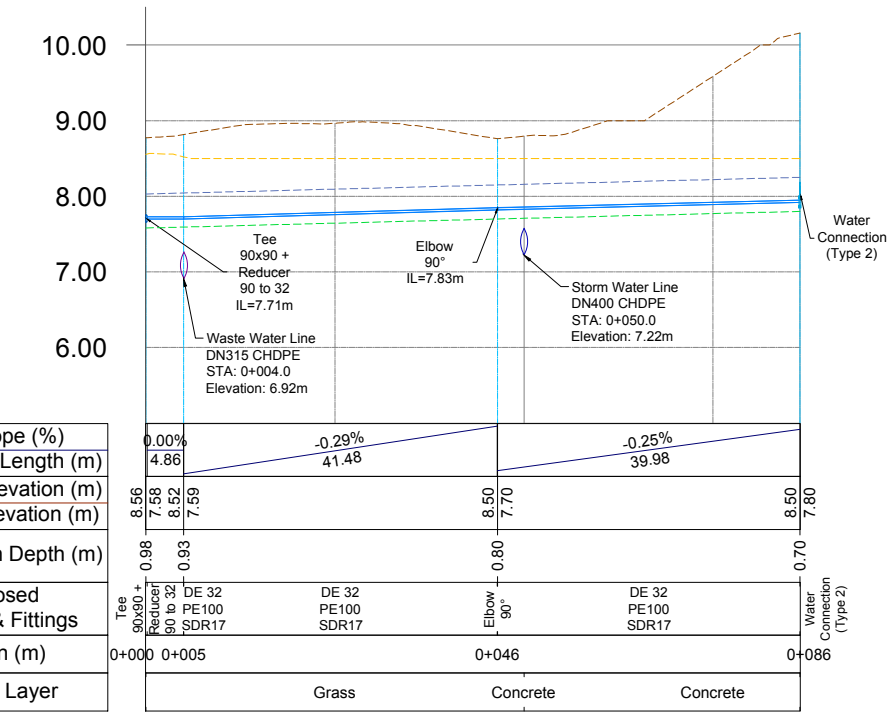
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Drawing number	Description	Scale	Date
DD-H-WS-F-04	Well Design		
Detailed Design	420 x 297 mm	1:25	05-10-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		



375700.000 375600.000 375500.000

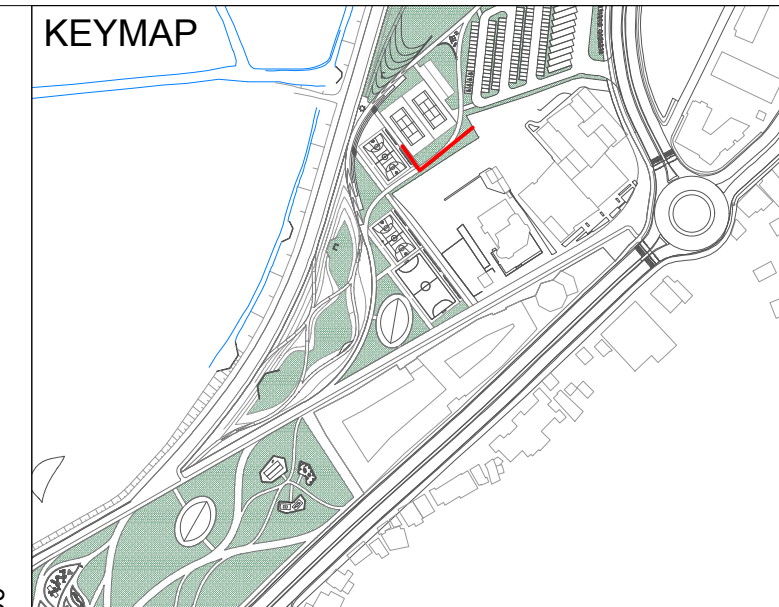
LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



Pipe Slope (%)	0.00%	-0.29%	-0.25%
Partial Pipe Length (m)	4.86	41.48	39.98
Ground Elevation (m)	8.56	7.58	8.50
Design Elevation (m)	7.58	7.59	7.70
Excavation Depth (m)	0.98	0.93	0.80
Proposed Pipeline & Fittings	Tee 90x90 + Reducer 90 to 32 SDR17	DE 32 PE100 SDR17	Elbow 90° DE 32 PE100 SDR17
Station (m)	0+000	0+005	0+086
Ground Layer	Grass	Concrete	Concrete

VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO W	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	35.10	24.90	10.20	18.47	86.00	0.00	0.00	1.00	86.00



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

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DD-H-WS-LP-WF-1 Water Supply Line WF-1 Longitudinal Profile

Drawing number: DD-H-WS-LP-WF-1 Description: Water Supply Line WF-1 Longitudinal Profile

Detailed Design 420 x 297 mm 1:1000 23-09-2022

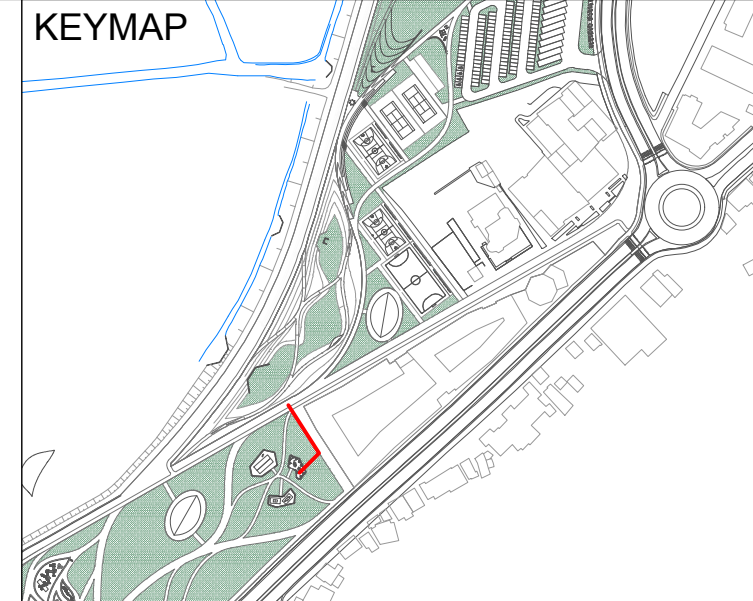
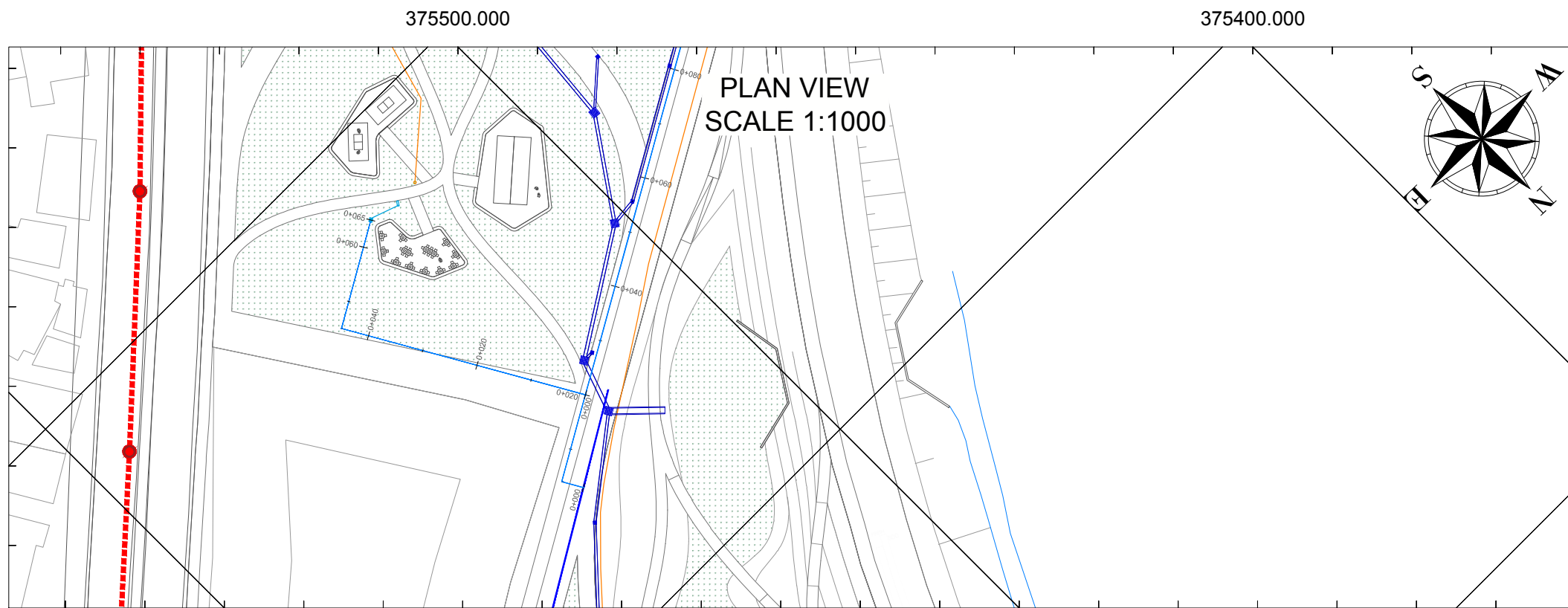
Phase: Detailed Design Format: 420 x 297 mm Scale: 1:1000 Date: 23-09-2022

L077 Master Plan of Interventions at the Entrance of Shkodra

Project number: L077 Project name: Master Plan of Interventions at the Entrance of Shkodra

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LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

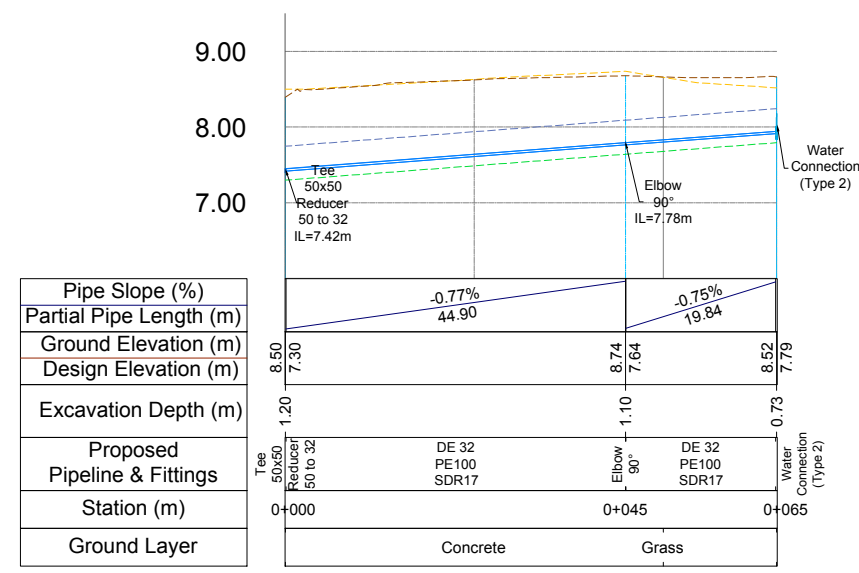
CLIENT:
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LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



VOLUMES TABLE										
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	35.10	18.00	17.10	13.96	65.00	0.00	0.00	1.00	65.00

DD-H-WS-LP-WF-2 Water Supply Line WF-2 Longitudinal Profile

Drawing number: DD-H-WS-LP-WF-2 Description: Water Supply Line WF-2 Longitudinal Profile

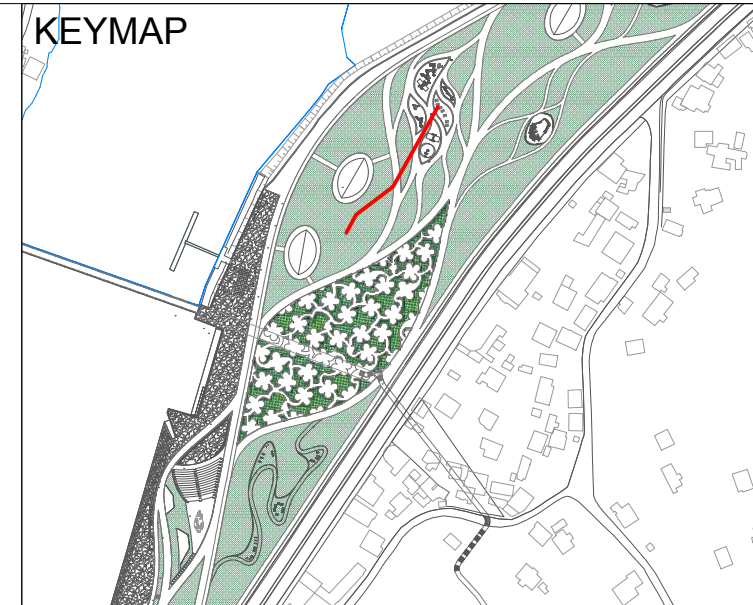
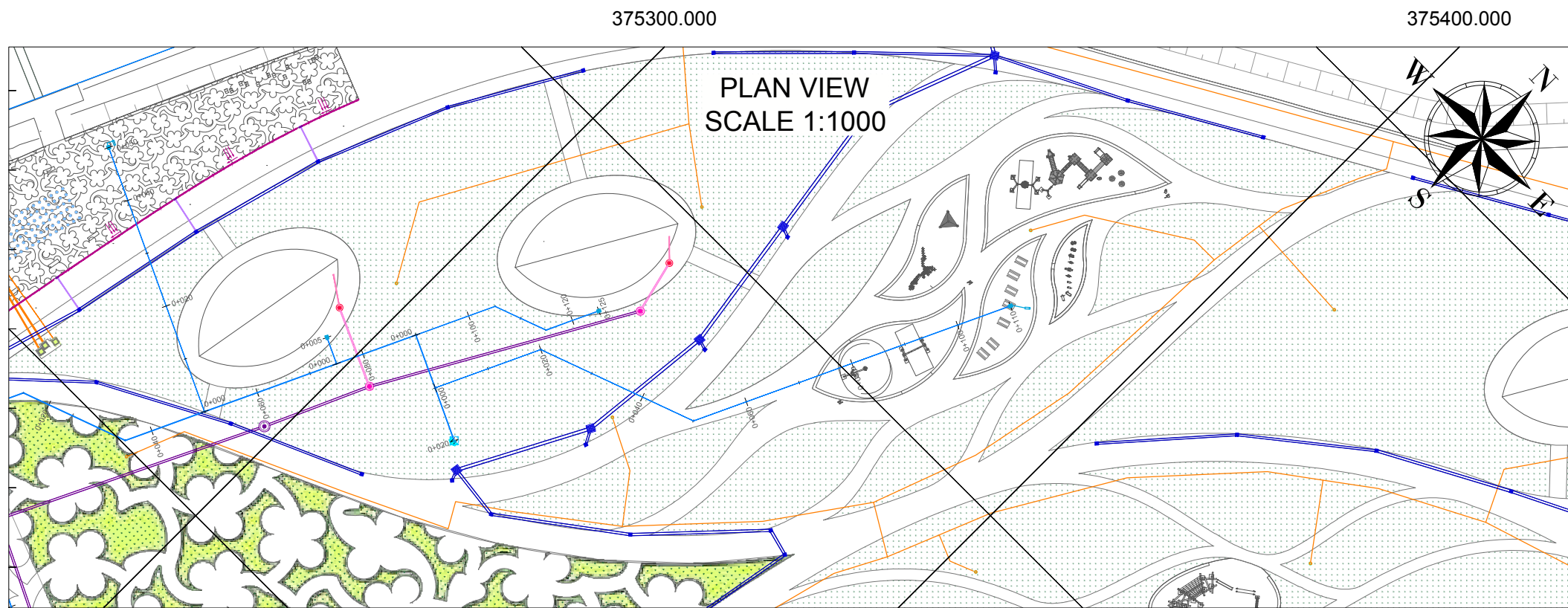
Detailed Design 420 x 297 mm 1:1000 23-09-2022

Phase: L077 Format: Master Plan of Interventions at the Entrance of Shkodra

Project number: L077 Project name: Master Plan of Interventions at the Entrance of Shkodra

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LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

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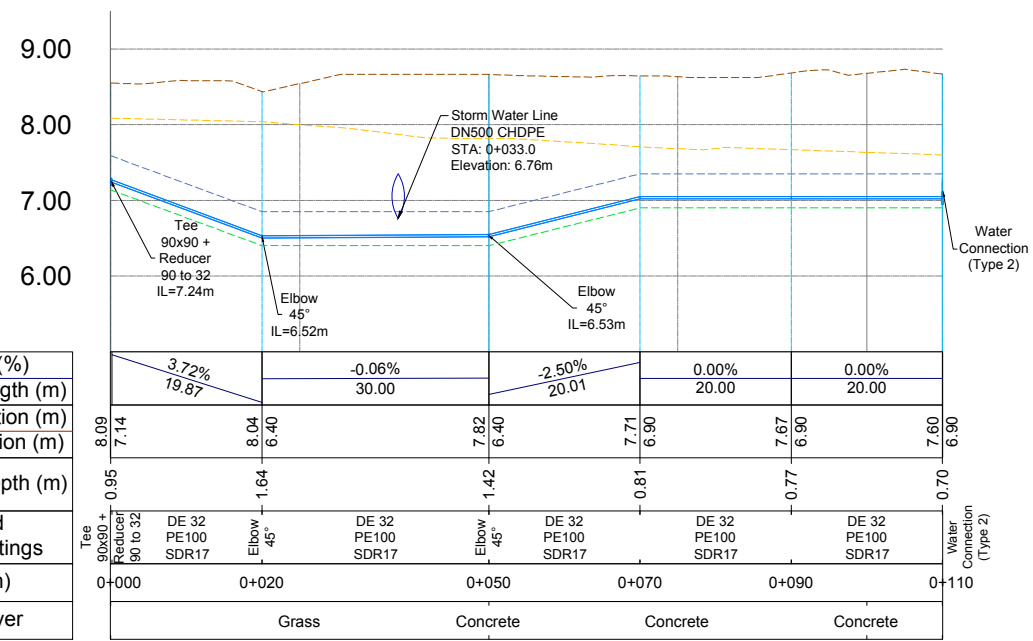
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DD-H-WS-LP-WF-3		Water Supply Line WF-3 Longitudinal Profile	
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
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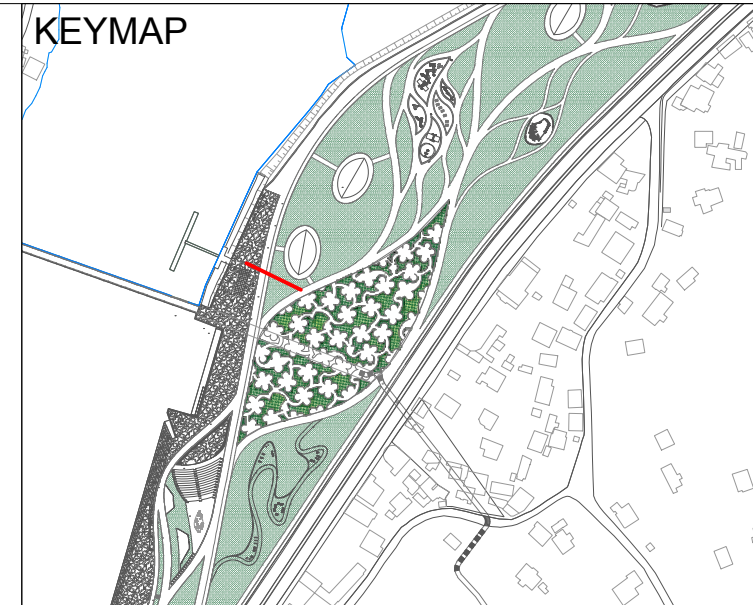
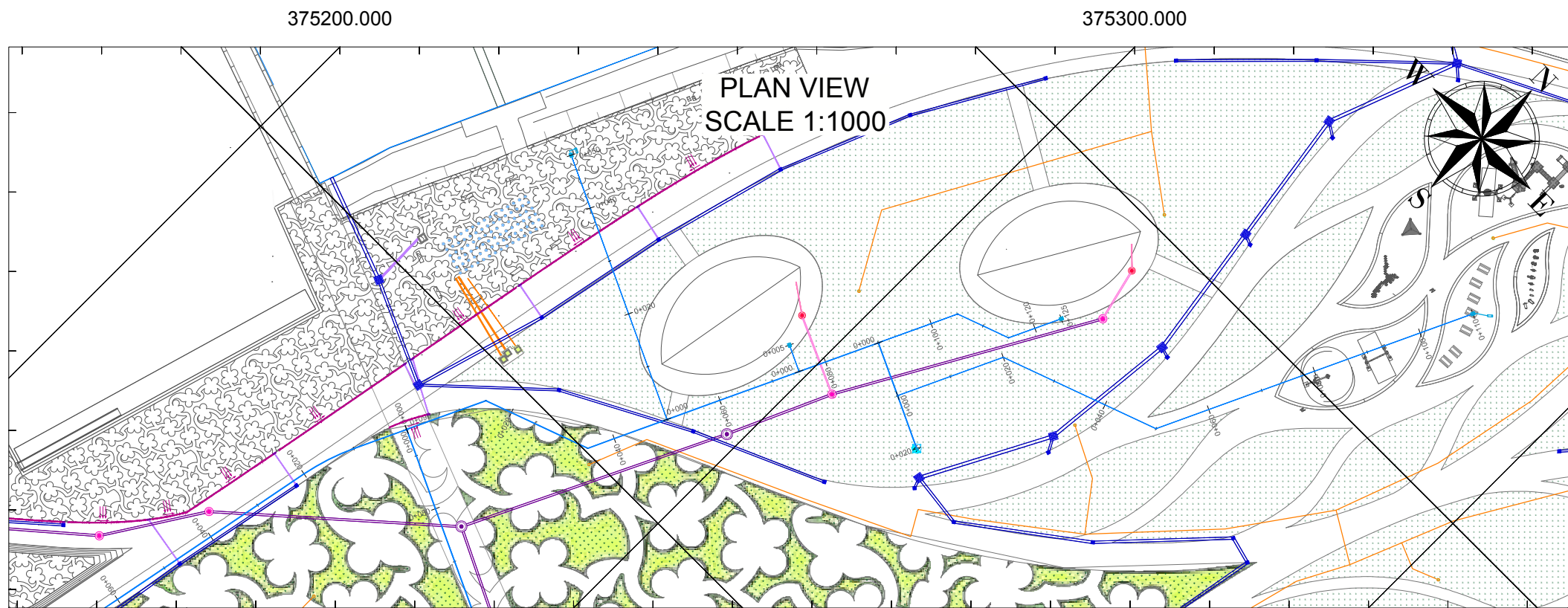
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LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	63.30	40.50	22.80	23.63	110.00	0.00	0.00	1.00	110.00



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
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	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

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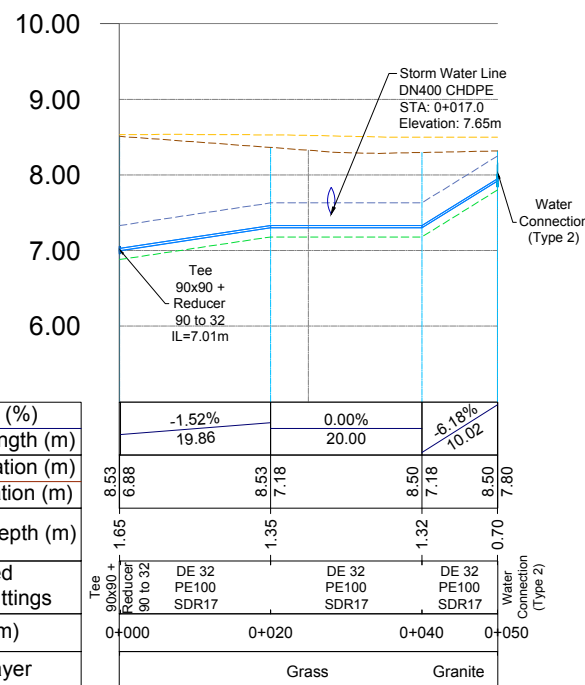
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375300.000

375400.000

LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



Pipe Slope (%)	-1.52%	0.00%	-8.18%
Partial Pipe Length (m)	19.86	20.00	10.02
Ground Elevation (m)	8.53	8.53	8.50
Design Elevation (m)	6.88	7.18	7.18
Excavation Depth (m)	1.65	1.35	1.32
Proposed Pipeline & Fittings	Tee 90x90 + Reducer 90 to 32 SDR17	DE 32 PE100 SDR17	DE 32 PE100 SDR17
Station (m)	0+000	0+020	0+040
Ground Layer	Grass		Granite

VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
L05	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	33.10	23.20	9.90	10.74	50.00	0.00	0.00	1.00	50.00

DD-H-WS-LP-WF-4 Water Supply Line WF-4 Longitudinal Profile

Drawing number: DD-H-WS-LP-WF-4 Description: Water Supply Line WF-4 Longitudinal Profile

Detailed Design 420 x 297 mm 1:1000 23-09-2022

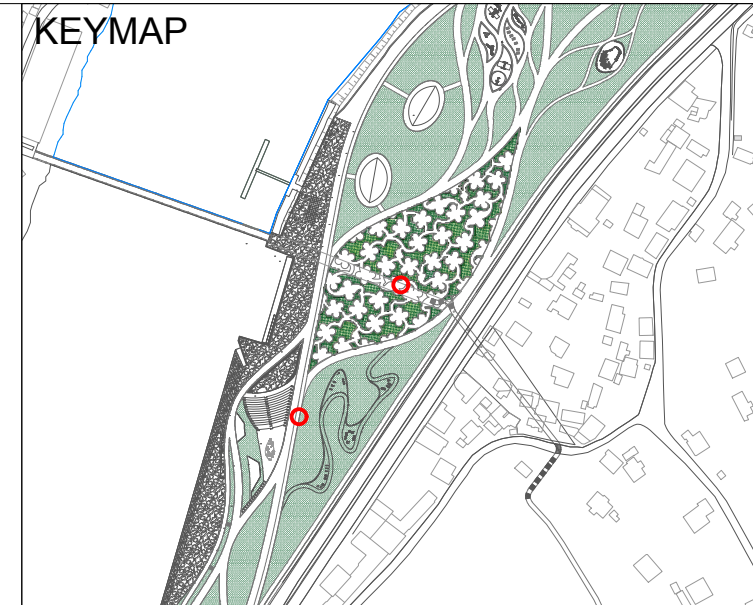
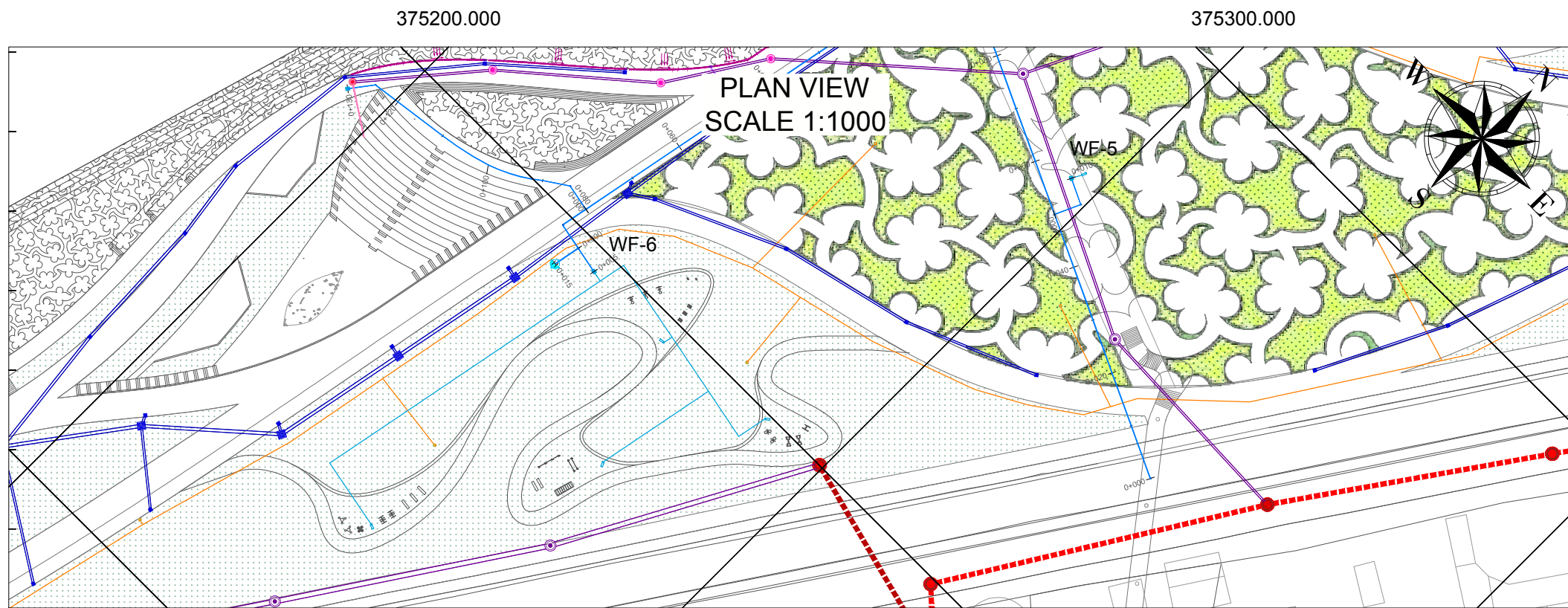
Phase: Detailed Design Format: 420 x 297 mm Scale: 1:1000 Date: 23-09-2022

L077 Master Plan of Interventions at the Entrance of Shkodra

Project number: L077 Project name: Master Plan of Interventions at the Entrance of Shkodra

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LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

CLIENT:
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DD-H-WS-LP-WF-5-6 Water Supply Lines WF-5&6 Longitudinal Profiles

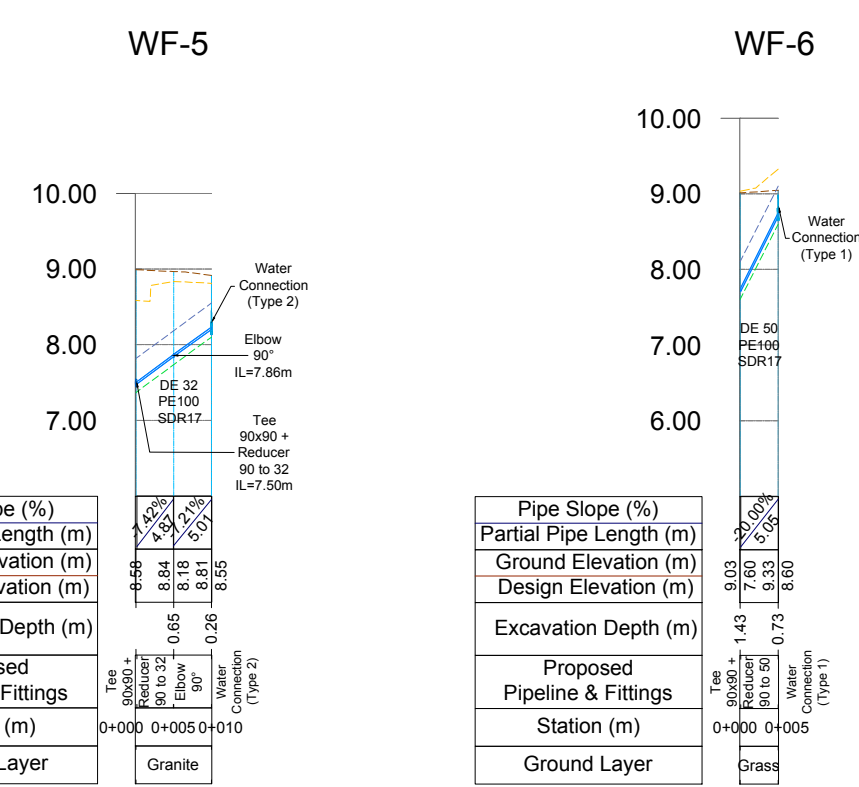
Drawing number	Description
Detailed Design	420 x 297 mm 1:1000 23-09-2022

Phase	Format	Scale	Date
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L077 Master Plan of Interventions at the Entrance of Shkodra

Project number Project name
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LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



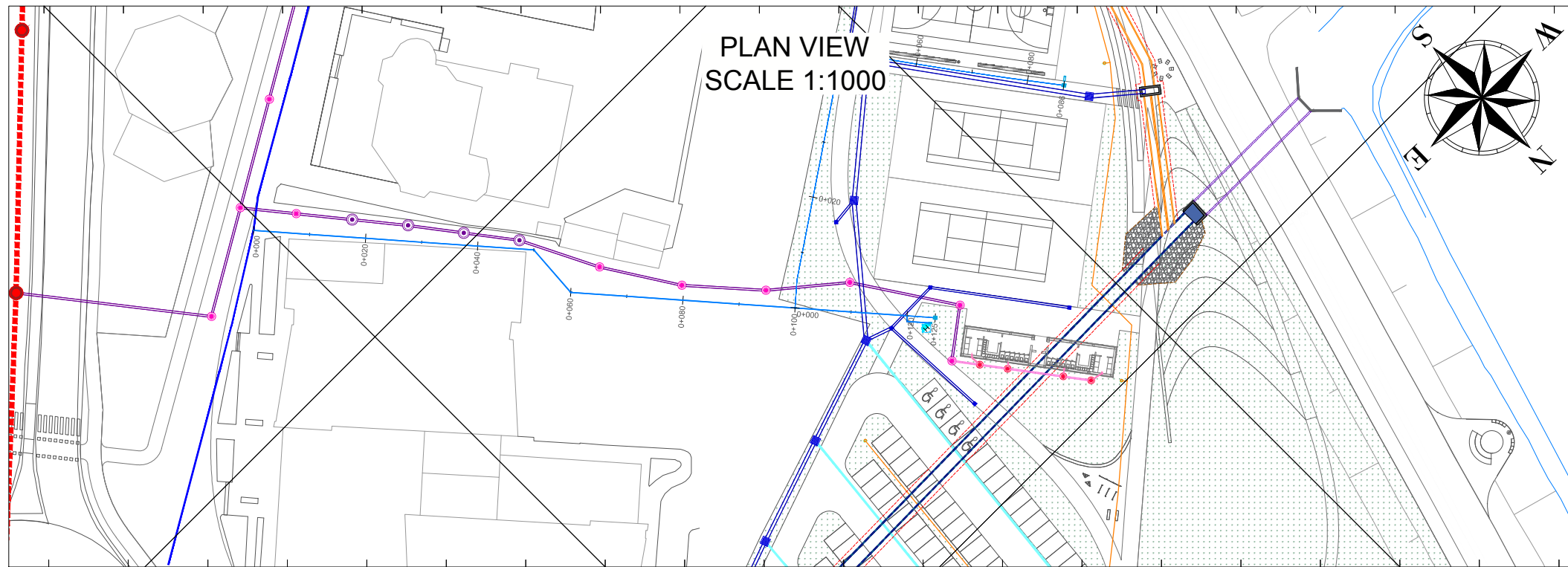
VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	79.20	44.45	34.65	35.76	121.00	39.00	0.00	2.00	160.00

NOTES : For line WS-6 the Water Connection is Type 1 and outlet is DE50mm in order to serve 4 Drinking Fountains (instead of one as all the other lines). This is due to the proximity between these fountains.

375700.000

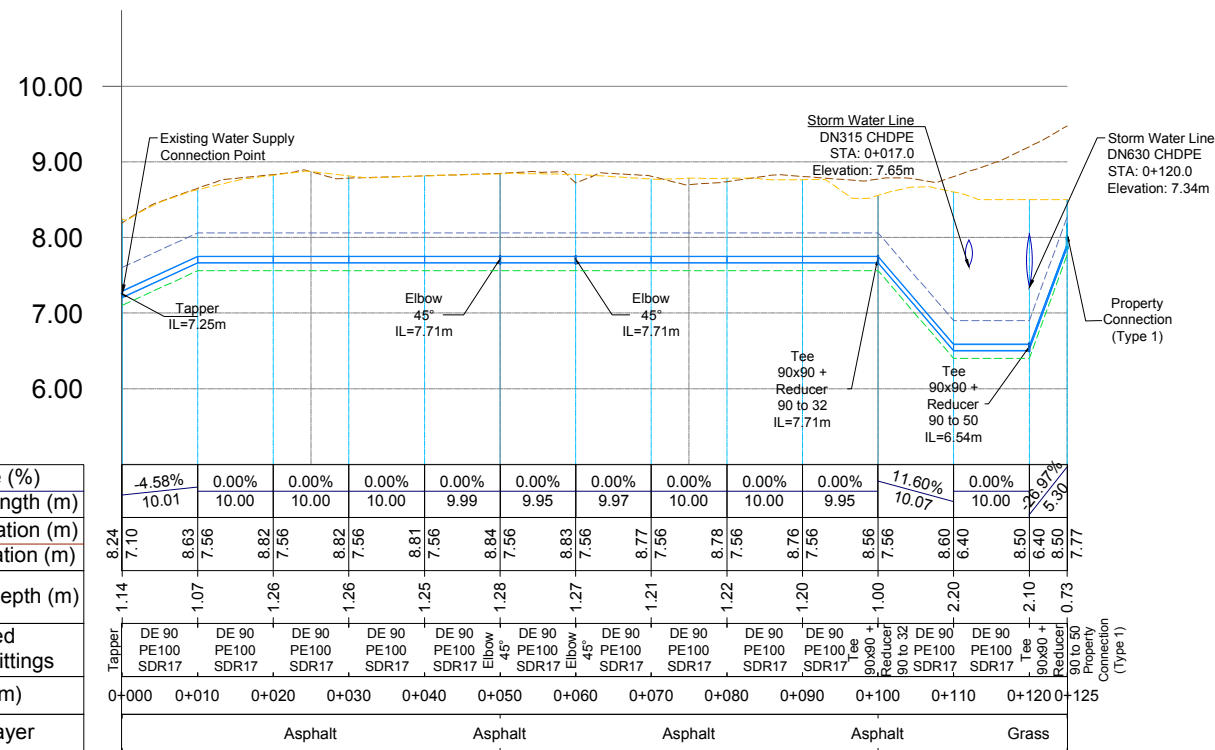
375600.000



375700.000

375600.000

LONGTITUDINAL PROFILE
SCALE H 1:1000 V 1:100

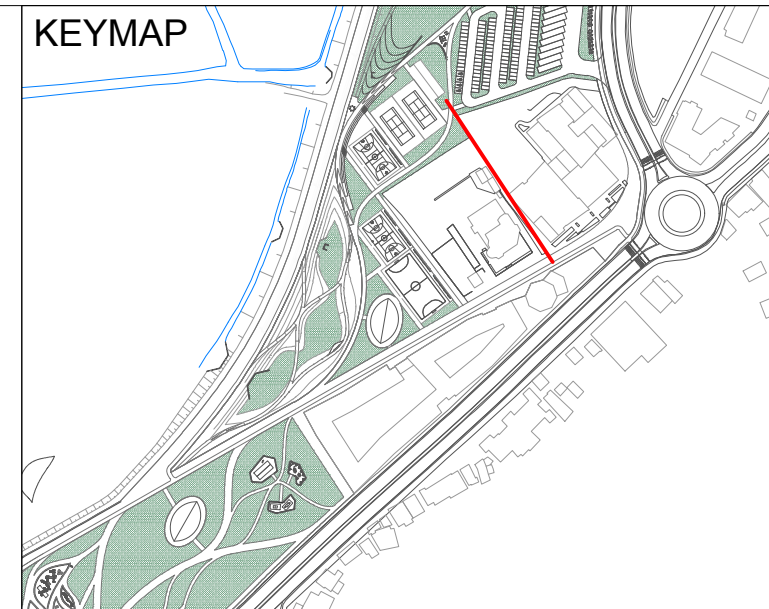


Pipe Slope (%)	-4.58%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	11.60%	0.00%	0.00%	0.30%	
Partial Pipe Length (m)	10.01	10.00	10.00	10.00	9.99	9.95	9.97	10.00	10.00	9.95	10.07	10.00	0.30	0.73	
Ground Elevation (m)	8.24	8.63	8.62	8.82	8.81	8.84	8.83	8.77	8.78	8.76	8.66	8.60	8.50	8.50	
Design Elevation (m)	7.10	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	7.56	6.40	6.40	6.40	
Excavation Depth (m)	1.14	1.07	1.26	1.26	1.25	1.28	1.27	1.21	1.22	1.20	1.00	2.20	2.10	0.73	
Proposed Pipeline & Fittings	Taper	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	Elbow 45° SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	DE 90 PE100 SDR17	Tee 90x90 + Reducer 90 to 50	Property Connection (Type 1)
Station (m)	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+125	
Ground Layer	Asphalt				Asphalt				Asphalt				Grass		

VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO W	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	88.02	58.66	36.79	29.36	0.00	5.00	120.00	1.00	125.00

KEYMAP



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

NOTES :

- All coordinates are in UTM WGS84 34N
- All dimensions are in meters, otherwise there will be a note.
- All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

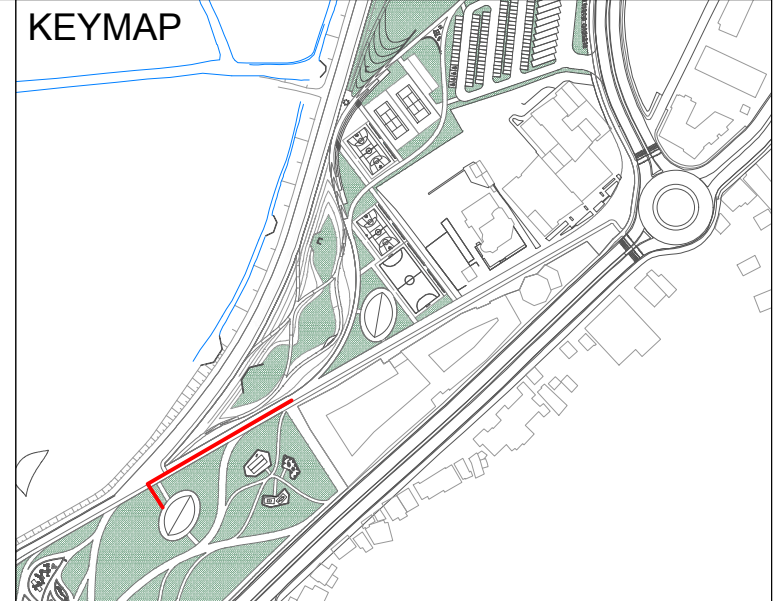
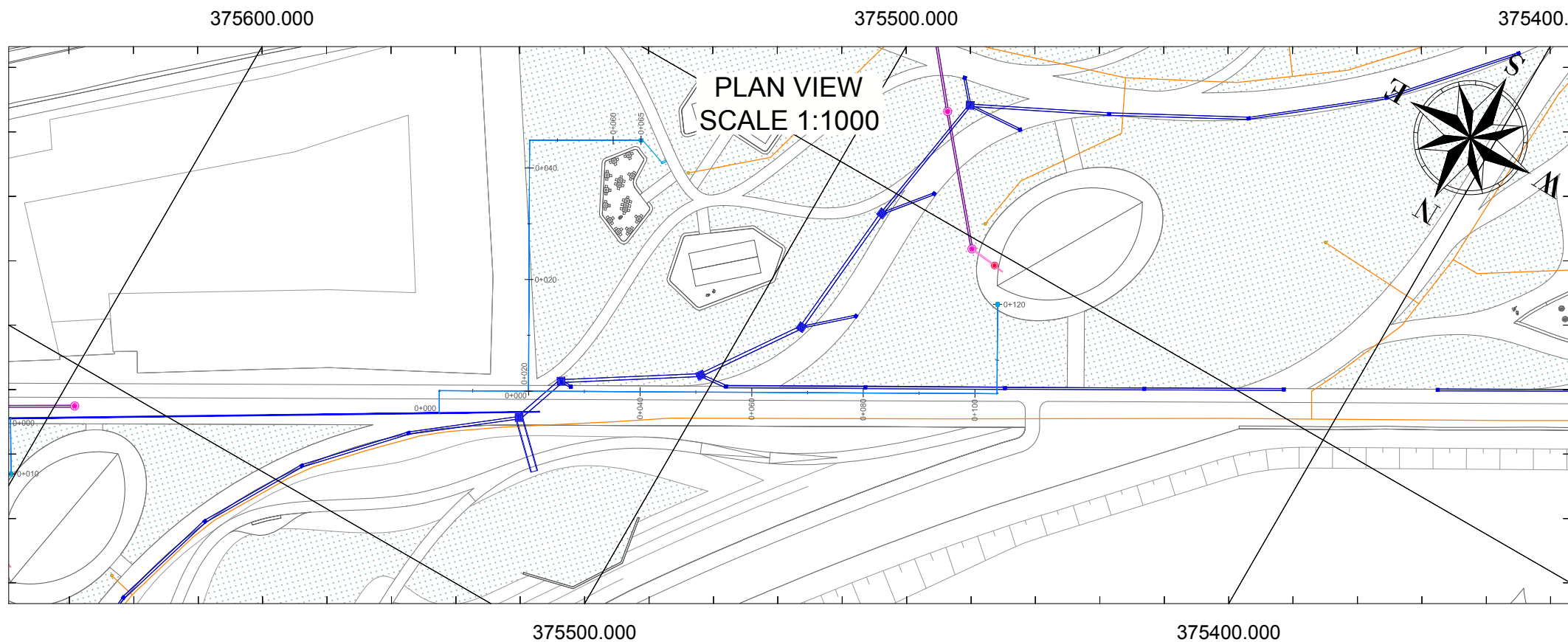
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
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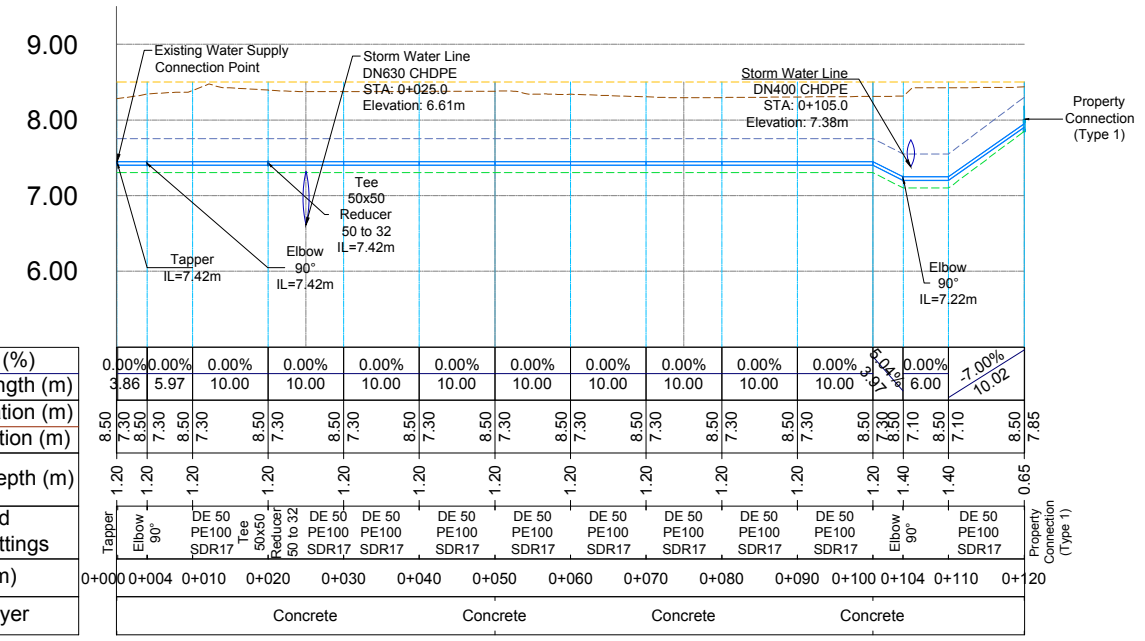
DD-H-WS-LP-WS-1		Water Supply Line WS-1 Longitudinal Profile	
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects 3011 AH Rotterdam SRP Schneider & Partner, Ingenieur-Consult GmbH T +31 (0)10 240 9333 SRP Albanian Engineering sh.p.k. F +31 (0)10 240 9229 contact@casanova-hernandez.com			



LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

LONGITUDINAL PROFILE SCALE H 1:1000 V 1:100



VOLUMES TABLE										
AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	71.68	53.48	27.30	26.65	0.00	120.00	0.00	1.00	120.00

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

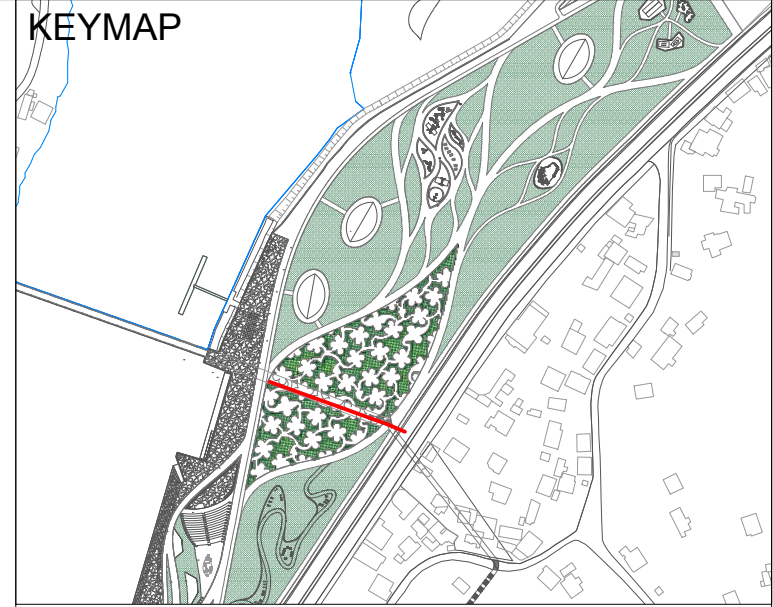
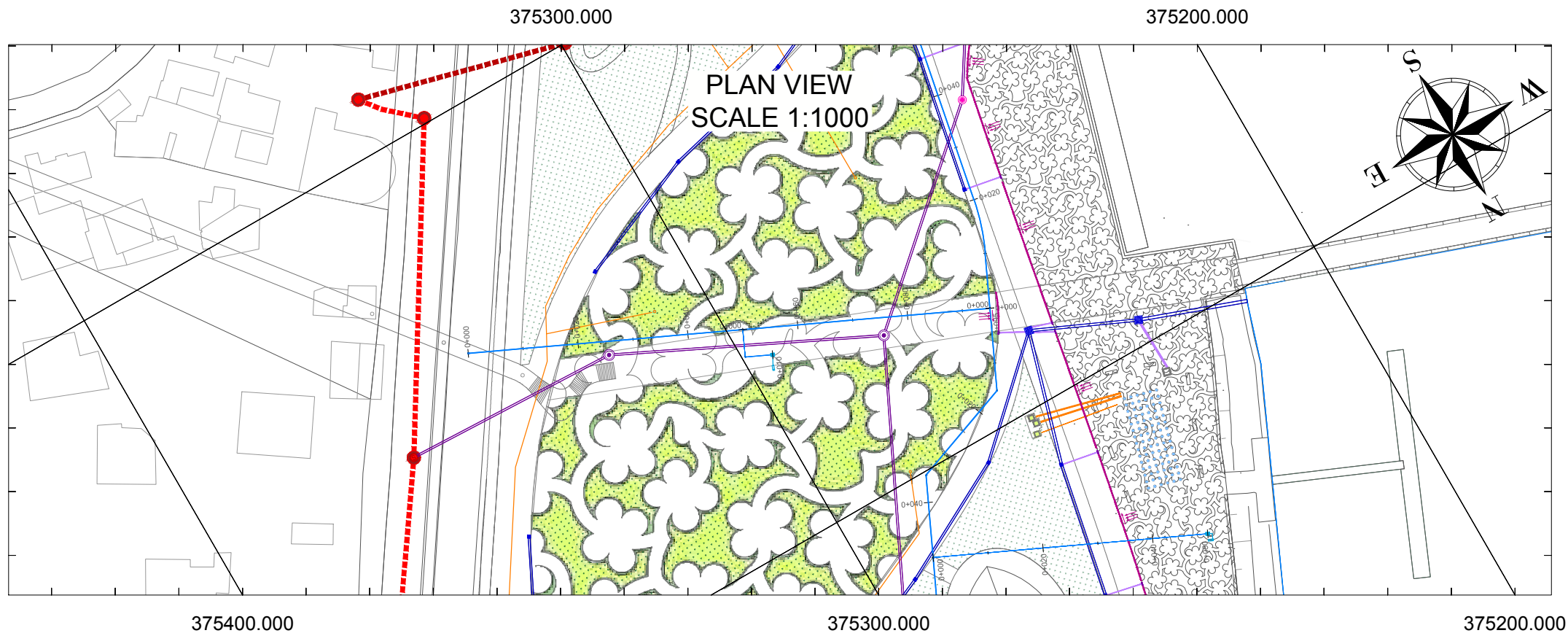
CLIENT:
ALBANIAN DEVELOPMENT FUND
Contact person: Erni Dautaj (Menaxhere Kontrates)
Pr. "Sami Frasheri", Nr. 10, Tirana, Albania
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DD-H-WS-LP-WS-2		Water Supply Line WS-2 Longitudinal Profile		
Drawing number	Description			
Detailed Design	420 x 297 mm	1:1000	23-09-2022	
Phase	Format	Scale	Date	
L077	Master Plan of Interventions at the Entrance of Shkodra			
Project number	Project name			
casanova+hernandez architects				
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LEGEND AND NOTES

LEGEND	
SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
	Proposed Storm Water Manhole
	Proposed Hydrant
	Proposed Water Supply Property Connection
	Proposed Drinking Water Fountain
	Proposed Pipes to Water Fountains
	Proposed Storm Water Network
	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
	Existing Water Supply Line
	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :**
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

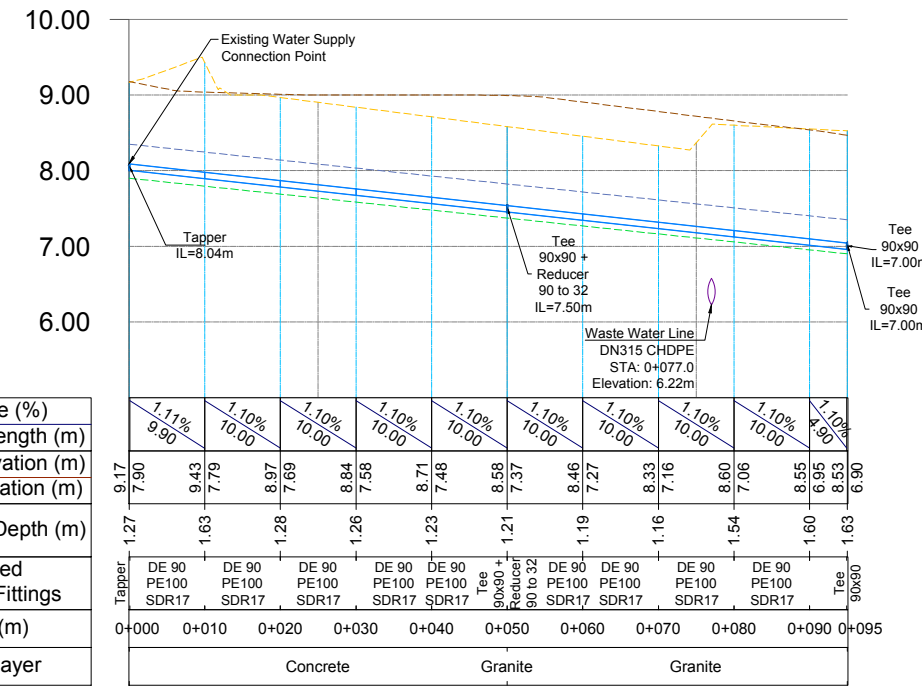
CLIENT:
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 Contact person: Erni Dautaj (Menaxhere Kontrates)
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LONGTITUDINAL PROFILE SCALE H 1:1000 V 1:100



Pipe Slope (%)	Partial Pipe Length (m)	Ground Elevation (m)	Design Elevation (m)	Excavation Depth (m)	Proposed Pipeline & Fittings	Station (m)	Ground Layer
1.11%	9.90	9.17	7.90	1.27	Tapper	0+000	Concrete
1.10%	10.00	9.43	7.79	1.63	DE 90 PE100 SDR17	0+010	Concrete
1.10%	10.00	8.97	7.69	1.28	DE 90 PE100 SDR17	0+020	Concrete
1.10%	10.00	8.64	7.58	1.26	DE 90 PE100 SDR17	0+030	Concrete
1.10%	10.00	8.71	7.48	1.23	DE 90 PE100 SDR17	0+040	Concrete
1.10%	10.00	8.58	7.37	1.21	Tee 90x90 + Reducer 90 to 32	0+050	Granite
1.10%	10.00	8.46	7.27	1.19	DE 90 PE100 SDR17	0+060	Granite
1.10%	10.00	8.33	7.16	1.16	DE 90 PE100 SDR17	0+070	Granite
1.10%	10.00	8.60	7.06	1.54	DE 90 PE100 SDR17	0+080	Granite
1.10%	10.00	8.55	6.95	1.60	DE 90 PE100 SDR17	0+090	Granite
1.10%	10.00	8.63	6.90	1.63	Tee 90x90	0+095	Granite

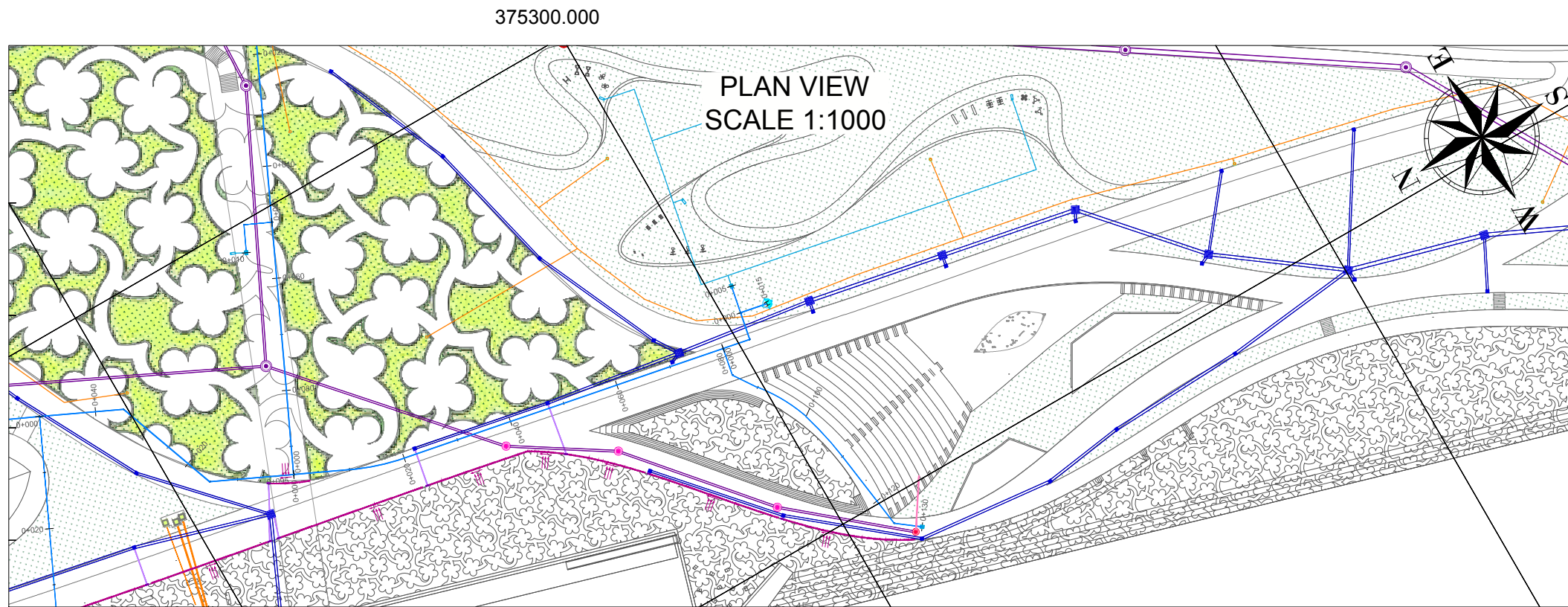
VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	61.38	46.13	21.79	22.37	0.00	0.00	95.00	0.00	95.00

DD-H-WS-LP-WS-3 Water Supply Line WS-3 Longitudinal Profile

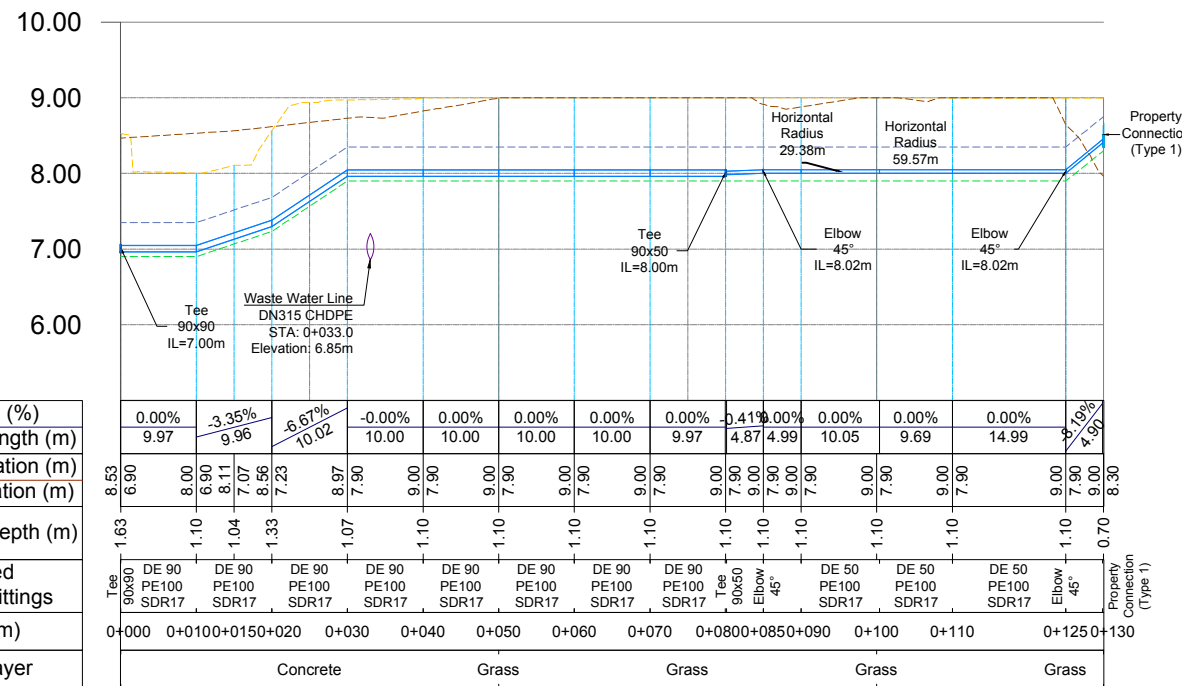
Drawing number	Description		
Detailed Design	420 x 297 mm	1:1000	23-09-2022
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects			
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SRP Albanian Engineering sh.p.k.			

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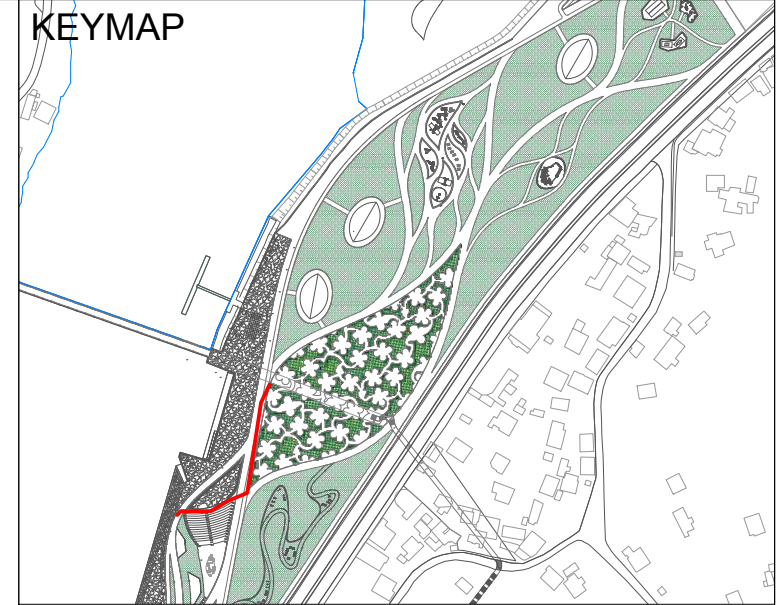
375200.000

LONGTITUDINAL PROFILE
SCALE H 1:1000 V 1:100



VOLUMES TABLE

AREA	CIVIL WORKS	Excavation	Transport	Topsoil Fill	Sand Bedding Fill	DE32mm HDPE Pipe	DE50mm HDPE Pipe	DN90mm CHDPE Pipe	Property Connection	Warning Tape
LO RP	UNIT	m ³	m ³	m ³	m ³	ml	ml	ml	pcs	ml
	VOLUME	76.29	45.24	44.35	29.94	0.00	50.00	80.00	1.00	130.00



LEGEND AND NOTES

LEGEND

SYMBOL	DESCRIPTION
	Proposed Circular Manhole - d=1500mm, H = 2.0-5.0m
	Proposed Circular Manhole - d=1000mm, H = 1.4-2.0m
	Proposed Circular Manhole - d=800mm, H = 0.8-1.4m
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	Proposed Hydrant
	Proposed Water Supply Property Connection
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	Proposed Waste Water Network
	Proposed Water Supply Network
	Proposed Irrigation Network
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	Warning Tape
	Excavation Line
	Existing Ground Level
	New Proposed Ground Level

- NOTES :
- All coordinates are in UTM WGS84 34N
 - All dimensions are in meters, otherwise there will be a note.
 - All property connection manhole covers are according to drawing DD-D-C-01. These manhole covers shall also be used to cover underground hydrant pipe and spindle exits.

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DD-H-WS-LP-WS-4 Water Supply Line WS-4 Longitudinal Profile

Drawing number	Description		
Detailed Design	420 x 297 mm 1:1000 23-09-2022		
Phase	Format	Scale	Date
L077	Master Plan of Interventions at the Entrance of Shkodra		
Project number	Project name		
casanova+hernandez architects SRP Schneider & Partner, Ingenieur-Consult GmbH SRP Albanian Engineering sh.p.k.	Lombardkade 24A 3011 AH Rotterdam T +31 (0)10 240 9333 F +31 (0)10 240 9229 contact@casanova-hernandez.com		