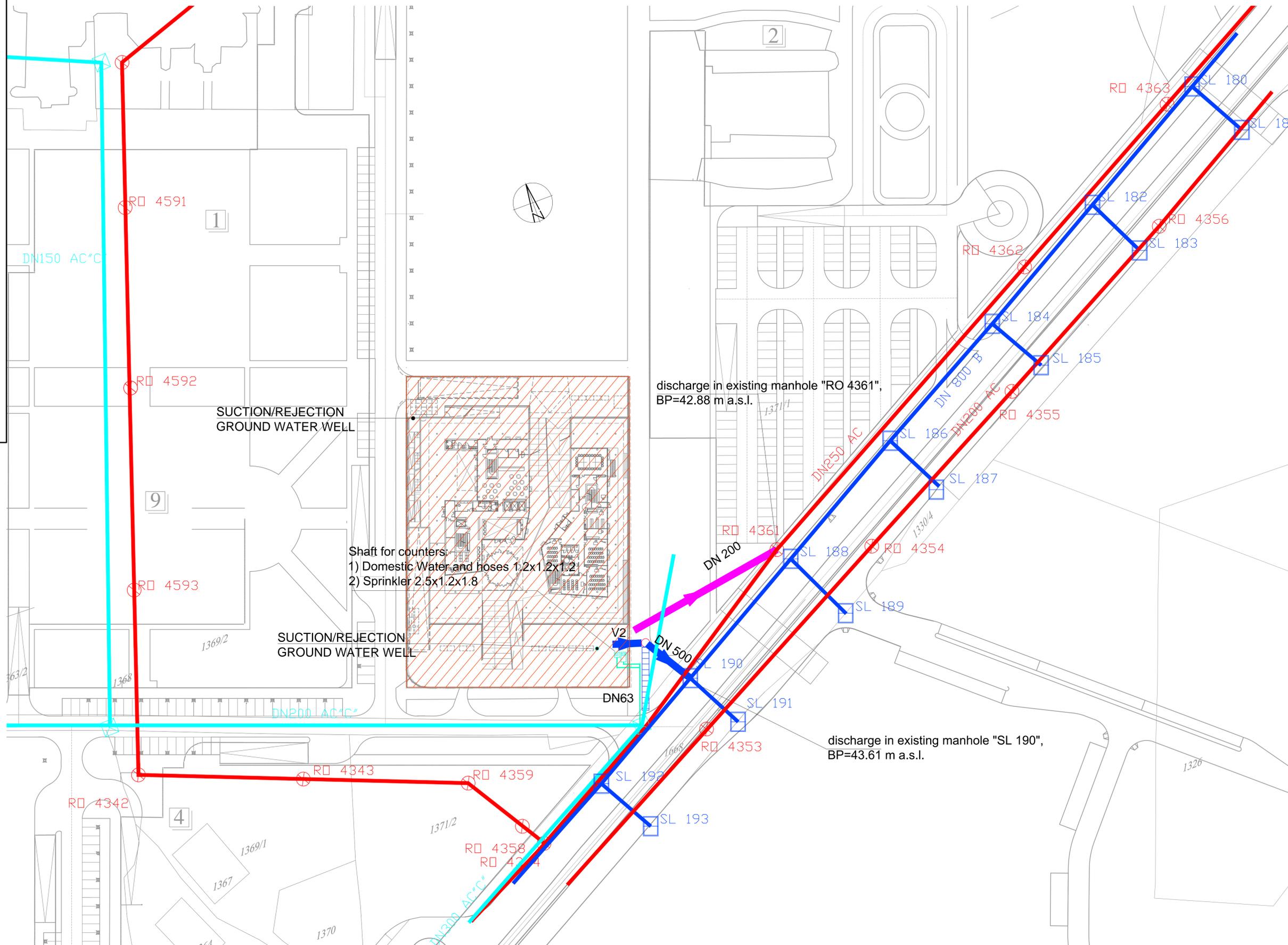
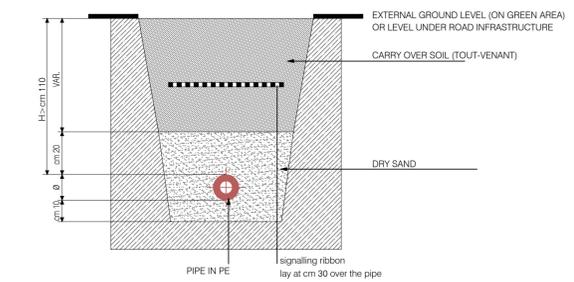


WATER RAIN PLAN AND COLLECTORS - GROUND LEVEL WITH EXTERNAL AREA
Scale 1:200

LEGEND

-  DESIGN AREA
-  PIPE OF CONNECTION (PE) FOR WATER SUPPLY FROM DESIGN AREA, PN12.5, Q=3.0 l/s, MINIMUM RESIDUAL PRESSURE TO GUARANTEE = 50 kPa
-  PIPE OF CONNECTION (PE) FOR RAIN WATER FROM DESIGN AREA
-  STORAGE TANK FOR RAIN WATER FROM DESIGN AREA, DN 2000, V=56.5 m³
-  PIPE OF CONNECTION (PVC S/N8) FOR FECAL SEWAGE FROM DESIGN AREA

TYPICAL SECTION FOR LAYING OF PIPES FOR PUBLIC CONNECTIONS



discharge in existing manhole "RO 4361",
BP=42.88 m a.s.l.

discharge in existing manhole "SL 190",
BP=43.61 m a.s.l.

SUCTION/REJECTION
GROUND WATER WELL

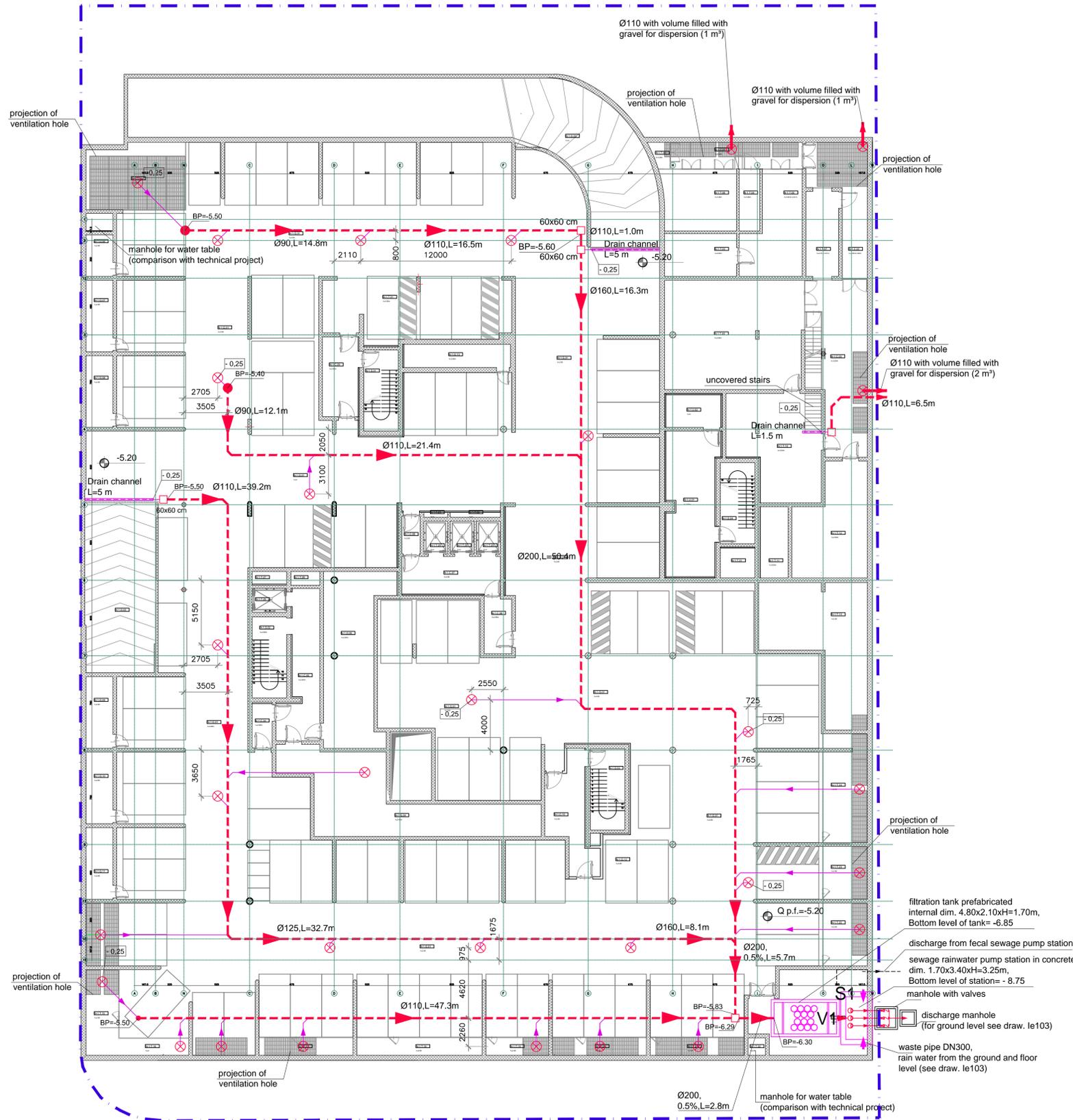
SUCTION/REJECTION
GROUND WATER WELL

Shaft for counters:
1) Domestic Water and hoses 1.2x1.2x1.2
2) Sprinkler 2.5x1.2x1.8

<p>INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO</p> <p>MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY</p> <p>Bul. Džordža Vasiljevića bb, 81000 Podgorica, Crna Gora</p>		<p>MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE</p> <p>Trg Nikole Kneževića br. 2, 81000 Podgorica, Crna Gora</p>			
<p>PROJECT MANAGEMENT AND STRUCTURAL DESIGN:</p> <p>FCM favoromiljan inženjering</p> <p>35035 Mirna Venezia - Italia Tel. +39 041 576711 Fax +39 041 4352933 www.favoromiljan.com</p>		<p>MEP DESIGN:</p> <p>TIFS INGENIERIA</p> <p>Corso Stati Uniti 56, 20127 Padova, Italia Tel. +39 049 8705115 Fax +39 049 8705115</p>			
<p>ARCHITECTURAL DESIGN:</p> <p>MC A</p> <p>Via De Carracci 6/M - 40129 Bologna, Italia Tel. +39 051 63 13 381 Fax +39 051 63 13 316 e-mail mc.a@mc-a.com</p>		<p>LOCAL SUPPORT:</p> <p>DFS DFS Engineering</p> <p>Moskovska 4 - 81 000 Podgorica, Montenegro Tel. +382 20 228 501 Fax +382 20 228 501 e-mail info@dfs-engineering.com</p>			
<p>Discipline - ARCHITECTURE:</p> <p>studio SYNTHESIS architecture & design</p> <p>Bul. Džordža Vasiljevića bb, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail info@studiosynthesis.me</p>					
<p>Discipline - STRUCTURE:</p> <p>FRAME Project d.o.o.</p> <p>Prilaznik za građevinarstvo, ul. Zvezdana Džordža Vasiljevića bb, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail info@frame.me</p>		<p>Discipline - WATER AND SEWAGE:</p> <p>HIDROFOKUS</p> <p>Trg Nikole Kneževića br. 2, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail info@hidrofokus.me</p>			
<p>Discipline - ELECTRICAL WIRING / high voltage:</p> <p>SIEMENSYS</p> <p>Ulica Crnogajeva br. 2, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail info@siemensys.me</p>		<p>Discipline - ELECTRICAL WIRING / low voltage:</p> <p>SIEMENSYS</p> <p>Ulica Crnogajeva br. 2, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail info@siemensys.me</p>			
<p>Discipline - MECHANICAL SERVICES:</p> <p>NOVA ENERGIJA</p> <p>D.O.O. ZA PROJEKTOVANJE, INŽENJERING, PROMET I USTROJAVANJE ENERGIJSKIH I ENVIROMENTALNIH SISTEMA, ul. Džordža Vasiljevića bb, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail nova@novajer.me</p>		<p>Discipline - FIRE PROTECTION:</p> <p>PREVENCIONISTIKA</p> <p>ul. 4. Jul 15-1, 81000 Podgorica, Crna Gora Tel. +382 20 228 083 Fax +382 20 228 082 e-mail info@prevencionistika.me</p>			
<p>Building and location: Business building - Building of the Government of Montenegro ENERGY EFFICIENT BUILDING Urban plot 9 DUP "Univerzitetski centar" - amendments Podgorica, Montenegro</p>					
<p>ISSUE MAIN DESIGN</p>		<p>RAIN WATER DESIGN</p>			
<p>TITLE GENERAL PLAN CONNECTION TO THE CITY WATER AND SEWAGE NETWORK</p>					
REV.	DATE	FILE	SUBJECT	DRAW	APPR.
a	30/11/10	926_je_100a.dwg	various		A.B.-H.D.B. S.F.
b					
c					
d					
<p>ISSUE NR: le100</p>					
DATE:	15/10/2010	SCALE:	1:500	FILE:	926_je_100.dwg
JN:	926	DRAW:	LDB	APPROVED:	S.F.

RAIN WATER PLAN AT THE UNDERGROUND LEVEL

Scale 1:200



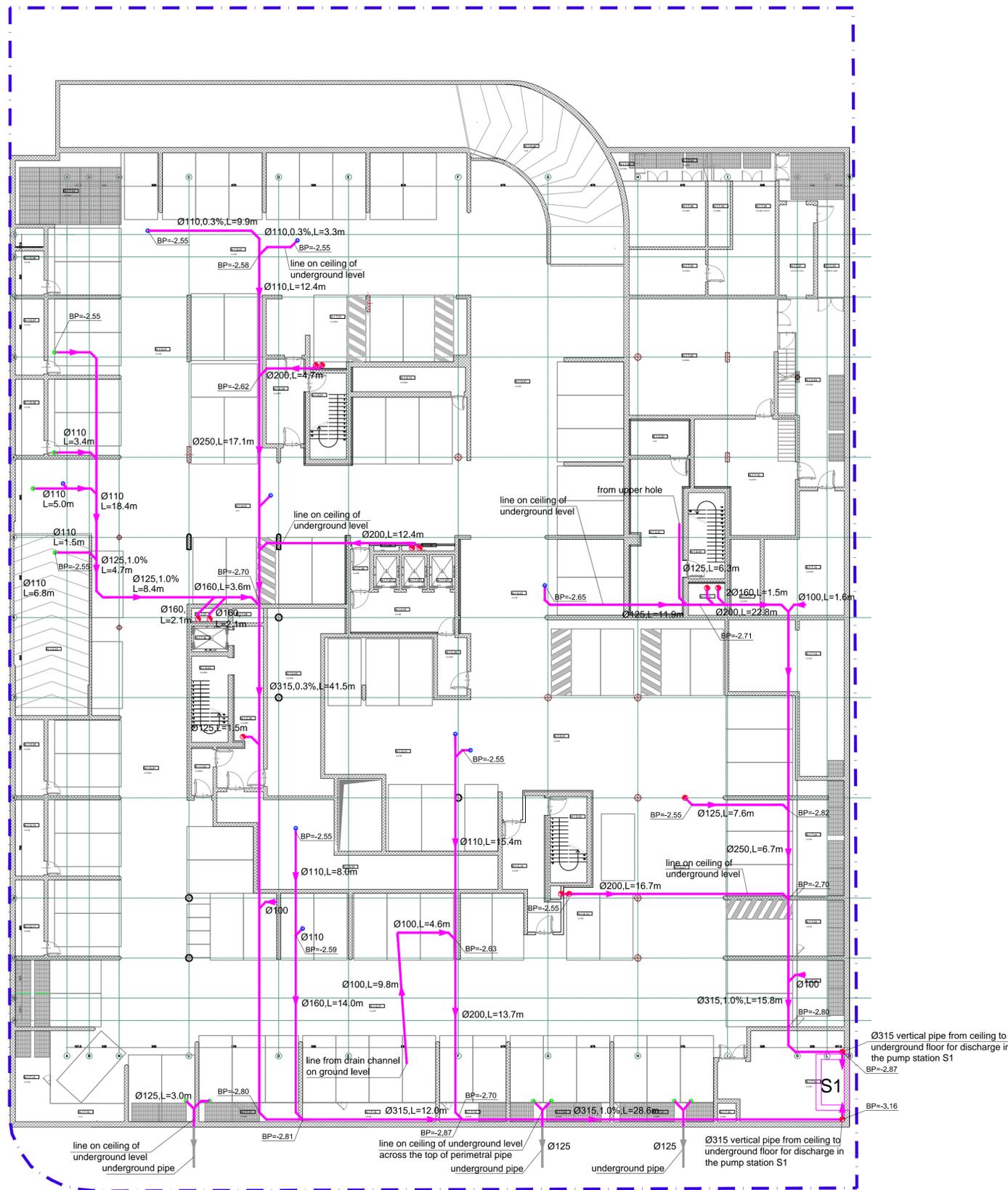
LEGEND

	AREA'S BOUNDARIES
	TYPE:4 PREFABRICATED DRAIN CHANNEL, IN PP-PE, EXTERNAL DIMENSION 147xH=60 mm, SIMILAR TO "DACHFIX-HAURATON", WITH GRILLED MESH 20x30 mm OF CAST IRON CL. C250 AND VERTICAL HOLE Ø75 mm FOR WASTE PIPE
	PREFABRICATED MANHOLE FOR INSPECTION, IN CONCRETE WITH LID OF CAST IRON OF CL. C250
	PIPE OF PE (POLYETHYLENE) Ø>=110 mm, FOR COLLECTION OF RAIN WATER FROM HOLE OF VENTILATION, SLIP ROADS AND DRAIN CHANNEL ON THE UNDERGROUND FLOOR, i=0.25% IF NOT SPECIFIED (WITH DASHED LINE-IN THE THICKNESS OF FOUNDATION, WITH CONTINUOUS LINE-IN THE GROUND)
	SYPHONED GULLY GRATING, WITH REGULABLE FUNNEL, WASTE PIPE Ø75 mm OF PE (SEE DRAW. Ie106 FOR DETAILS)
	WASTE PIPE DN 75 mm OF PE, i=0.5%, FROM GULLY GRATINGS AT THE BOTTOM OF HOLES OF VENTILATION
	ARRANGEMENT POINT FOR CLEANING ACCESS TO PIPES: INSPECTION TOP, EXTENSION ELEMENT FOR CONCRETE MANHOLE, INTERNAL DIM.40x40xH=20 cm, LID OF CAST IRON OF CL. C250 EXTERNAL DIM. 50x50 cm
	PREFABRICATED FILTRATION TANK INTERNAL DIMENSION 4.80x2.10xH=1.70m, IN CONCRETE, WITH ELEMENTS "STORMFILTER-STORMWATER" OR SIMILAR (SEE DRAW. Ie106 FOR DETAILS)
	SEWAGE PUMP STATION IN CONCRETE INTERNAL DIM. 1.70x3.40xH=3.25m, WITH N.3 SUBMERGED PUMPS P=13.5kW, Q=85 l/s, H=9m EACH ONE (ONE IS IN STAND-BY) AND CONTROL/SUPPLY PANEL
	IF NOT SPECIFIED, LEVELS ARE RELATED TO 0.00 LEVEL OF THE BUILDING
	BOTTOM PIPE LEVEL (m) RELATED TO FINAL LEVEL OF PAVEMENT SURFACE
	BOTTOM PIPE (BP) LEVEL (m) REFERRED TO 0.00 LEVEL OF EXTERNAL PAVEMENTS

- ### NOTES
- CONNECTIONS BETWEEN PIPES WILL BE PERFORMED WITH ANGULAR ELEMENTS ON 45°.
 - REDUCTIONS WILL HAVE ALIGNED UPPER LEVELS;
 - PAVEMENT SURFACE WILL HAVE A SLOPE >= 0.2% TOWARDS DRAIN CHANNELS;
 - BEFORE BUILDING, BUILDING COMPANY WILL CHECK POSSIBLE INTERFERENCE WITH OTHER TECHNICAL SYSTEM AND PIPES;
 - FOR LEVELS OF PROJECT PAVEMENT VERIFY COMPARISON WITH STRUCTURAL AND ARCHITECTURAL PROJECT;
 - SHOWED DIMENSIONS ARE IN mm;
 - IN CASE THAT DIVERGENCE BETWEEN PROJECT DRAWINGS, IN ORDER:
 - 1 - MOST DETAILED DRAWINGS (SCALE 1:20 - 1:50)
 - 2 - TECHNICAL SPECIFICATIONS IN THE CONTRACT
 ARE PREDOMINANT INFORMATIONS;
 - FOR DRAIN CHANNELS SEE DETAILS ON DRAWING Ie106.

INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY Bul. Džordža Vasiljevića bb, 81000 Podgorica, Crna Gora Tel. +39 051 63 13 381 Fax +39 051 63 13 316 e-mail mca@mcarchitects.it		MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE Rinskij Trg 46, PC "Vektra", 81000 Podgorica, Crna Gora Tel. +382 20 228 082 Fax. +382 20 228 081 e-mail info@dfs-engineering.com			
PROJECT MANAGEMENT AND STRUCTURAL DESIGN: F&M favoromiljan inženjering 30035 Mirano Venezia - Italia Tel. +39 041 5785711 Fax +39 041 4355933 fm@favoro-miljan.com		MEP DESIGN: TIFS INGEINERSTVO Manens - TIFS SpA Corso Stati Uniti 56 35127 Padova, Italia tel. +39 049 8705110 e.mail ele@manens-ifs.it www@manens-ifs.it			
ARCHITECTURAL DESIGN: MC A mcarchitects Via De Carracci, 6/M - 40129 Bologna, Italia tel. +39 051 63 13 381 Fax +39 051 63 13 316 e-mail mca@mcarchitects.it		LOCAL SUPPORT: DFS DFS Engineering Mostarčanka 4 - 81 000 Podgorica, Montenegro tel. +382 20 228 501 e.mail info@dfs-engineering.com			
Designer: studio SYNTHESIS architecture & design Bul. Džordža Vasiljevića bb, 81000 Podgorica, Crna Gora info@studioythesis.me tel. +382 20 228 082 fax. +382 20 228 082 http://www.studioythesis.me					
Discipline - STRUCTURE: FRAME Project d.o.o. Prilaz ulice za projektovanje i inženjering Bul.ve Džordža Vasiljevića bb Podgorica		Discipline - WATER AND SEWAGE: HIDROFOKUS Trg Nikole Kovačevića br. 2 81000 Podgorica, Crna Gora tel. +382 20 21 98 70 e-mail: info@hif.com.me			
Discipline - ELECTRICAL WIRING / high voltage: SIENERSYS Il Caviglioglio beataduna 2/a 81000 Podgorica Tel. fax. +382 20 272 323 Mail. +382 20 223 233 E-mail: siengest@si.com.me		Discipline - ELECTRICAL WIRING / low voltage: simes Bul. Džordža Vasiljevića 1 81 000 Podgorica, Crna Gora tel. +382 20 228 082 fax. +382 20 228 081 mail: info@simesing.me			
Discipline - MECHANICAL SERVICES: NOVA ENERGIJA D.O.O. ZA PROJEKTOVANJE, INŽENJERING, PROMET I USTROJAVANJE NANA VUČIĆEVIĆA 2E, 81000 PODGORICA, CRNA GORA tel. fax. +382 20 245 142 e-mail: novae@novegija.com.me		Discipline - FIRE PROTECTION: PREVIZAN ul. 4. Jul 75/1 tel. 020402-300 mob. 999052-000 fax. 020402-301 INSTITUT ZA PROJEKTOVANJE I INŽENJERING, Zaštita na radu i Zaštita životne sredine			
Building and location: Business building - Building of the Government of Montenegro ENERGY EFFICIENT BUILDING Urban plot 9 DUP "Univerzitetski centar" - amendments Podgorica, Montenegro					
ISSUE MAIN DESIGN RAIN WATER DESIGN					
TITLE WATER RAIN PLAN UNDERGROUND LEVEL					
REV.	DATE	FILE	SUBJECT	DRAW	APPR.
a	30/11/10	Ie101a.dwg	Adjustments to water rain plan from roof level	LDB	S.F.
b					
c					
d					
ISSUE NR.				Ie101	
DATE:	15/10/2010	SCALE:	1:200	FILE:	926_Ie_101.dwg
J.N.	926	DRAW:	LDB	APPROVED:	S.F.

RAIN WATER PLAN AT CEILING OF UNDERGROUND LEVEL
Scale 1:200



LEGEND

- AREA'S BOUNDARIES
- \varnothing (mm), L(m) PIPE OF PE FOR RAIN WATER AT THE CEILING OF UNDERGROUND LEVEL, $i=0.5\%$ IF NOT SPECIFIED
- \bullet x.xx IF NOT SPECIFIED, LEVELS ARE RELATED TO 0.00 LEVEL OF THE BUILDING
- BP=xxx BOTTOM PIPE (BP) LEVEL (m) REFERRED TO 0.00 LEVEL OF EXTERNAL PAVEMENTS
- ○ PREDISPOSITION OF HOLE FOR PIPE Ø110mm (IF NOT SPECIFIED) ON LOFT AT LEVEL 0.00
- VERTICAL PIPE FROM ROOF LEVEL TO BOTTOM SIDE OF GROUND LEVEL

NOTES

- CONNECTIONS BETWEEN PIPES WILL BE PERFORMED WITH ANGULAR ELEMENTS ON 45°; REDUCTIONS WILL HAVE ALIGNED UPPER LEVELS;
- PAVEMENT SURFACE WILL HAVE A SLOPE $\geq 0.2\%$ TOWARDS DRAIN CHANNELS;
- BEFORE BUILDING, BUILDING COMPANY WILL CHECK POSSIBLE INTERFERENCE WITH OTHER TECHNICAL SYSTEM AND PIPES;
- FOR LEVELS OF PROJECT PAVEMENT VERIFY COMPARISON WITH STRUCTURAL AND ARCHITECTURAL PROJECT;
- SHOWED DIMENSIONS ARE IN mm;
- IN CASE THAT DIVERGENCE BETWEEN PROJECT DRAWINGS, IN ORDER:
 - 1 - MOST DETAILED DRAWINGS (SCALE 1:20 - 1:50)
 - 2 - TECHNICAL SPECIFICATIONS IN THE CONTRACT ARE PREDOMINANT INFORMATIONS;
- FOR DRAIN CHANNELS SEE DETAILS ON DRAWING Ie106.

INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO

MINISTRY OF THE ENVIRONMENT,
LAND AND SEA
OF THE REPUBLIC OF ITALY

Bul. Džordža Vasiljevića bb
81000 Podgorica, Crna Gora

MINISTARSTVO TURIZMA
MINISTARSTVO UREĐENJA PROSTORA
I ZAŠTITE ŽIVOTNE SREDINE

Rinskij Trg 46, PC "Vektra"
81000 Podgorica, Crna Gora

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: **F&M** favoromiljan inženjering

MEP DESIGN: **TIFS** INGEINERINJA Manena - TIFS SpA

ARCHITECTURAL DESIGN: **MC A** mcarchitects

LOCAL SUPPORT: **DFS** DFS Engineering

Designer: **studio SYNTHESIS** architecture & design

Discipline - STRUCTURE: **FRAME** Project d.o.o.

Discipline - WATER AND SEWAGE: **HIDROFOKUS**

Discipline - ELECTRICAL WIRING / high voltage: **SIENERSYS**

Discipline - ELECTRICAL WIRING / low voltage: **siemens**

Discipline - MECHANICAL SERVICES: **NOVA ENERGIJA**

Discipline - FIRE PROTECTION: **PREVIZANJE**

Building and location:
Business building - Building of the Government of Montenegro
ENERGY EFFICIENT BUILDING
Urban plot 9
DUP "Univerzitetski centar" - amendments
Podgorica, Montenegro

ISSUE
MAIN DESIGN **RAIN WATER DESIGN**

TITLE
WATER RAIN PLAN
CEILING OF UNDERGROUND LEVEL

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
a	30/11/10	Ie102a.dwg	Adjustments to water rain plan from roof level	LDB	S.F.
b					
c					
d					

ISSUE NR. **Ie102**

DATE: 15/10/2010	SCALE: 1:200	FILE: 926_je_102.dwg
J.N. 926	DRAW: LDB	APPROVED: S.F.



WATER RAIN PLAN AND COLLECTORS - GROUND LEVEL WITH EXTERNAL AREA

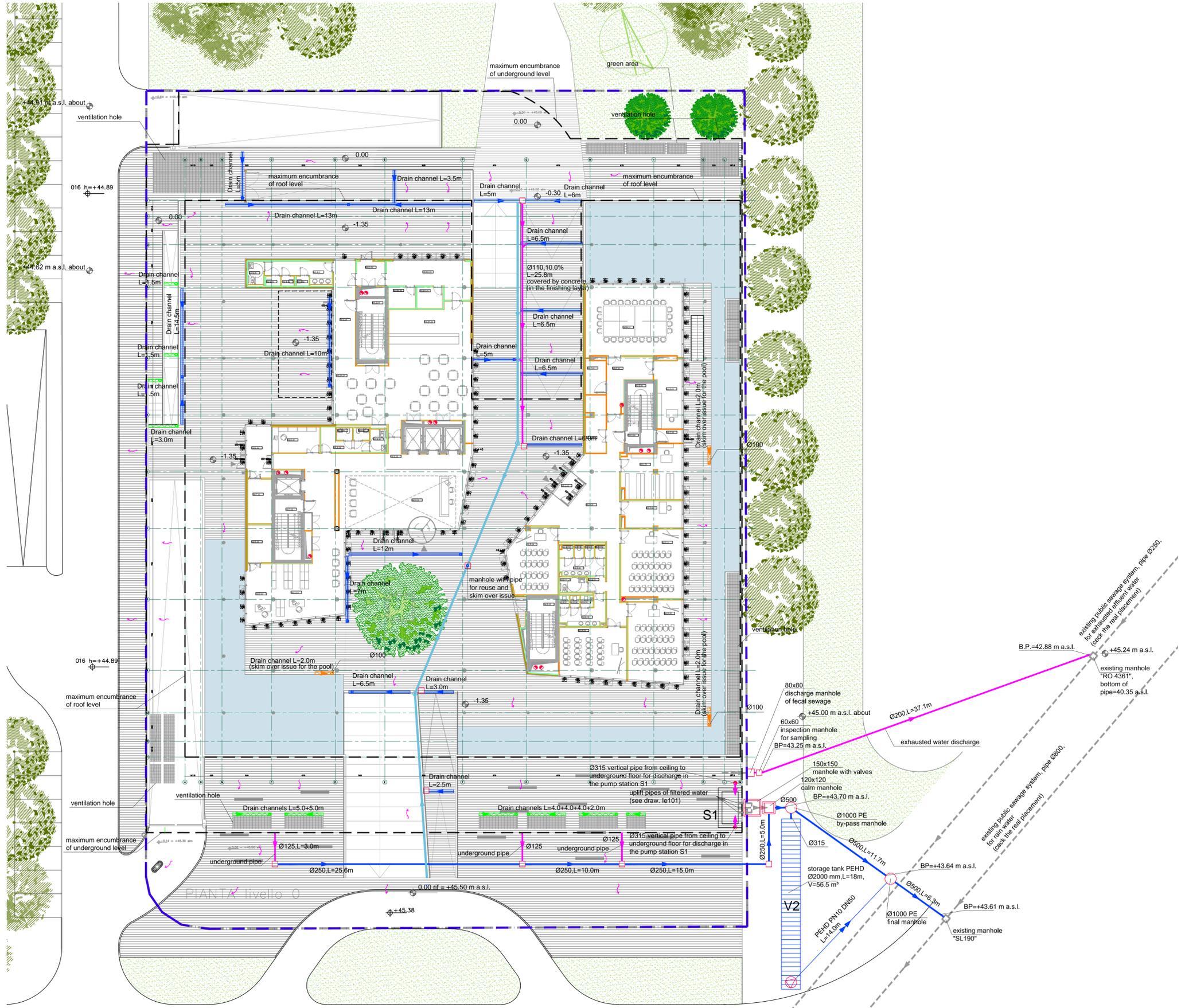
Scale 1:200

LEGEND

- AREA BOUNDARIES
- TYPE 1: PREFABRICATED DRAIN CHANNEL, IN PP-PE, EXTERNAL DIMENSION 160xH=135 mm, L(m) INDICATED, WITH SUPERIOR SLIT, WIDTH = 12.5 mmx H=100 mm OF STAINLESS STEEL AND VERTICAL HOLE Ø100 mm FOR WASTE PIPE
- TYPE 2: PREFABRICATED DRAIN CHANNEL, IN PP-PE, EXTERNAL DIMENSION 147x80 mm, SIMILAR TO "RECYFIX PLUS 100-HAURATON", L(m) INDICATED, WITH TRANSVERSAL SLITS 75x9 mm OF STEEL ZINC-COATED CL. B125 AND VERTICAL HOLE Ø100 mm FOR WASTE PIPE
- TYPE 5: STONE GRID WITH PREFABRICATED CHANNEL SIMILAR TO "CHANNEL S 100 K-ACO DRAIN" (SKIM OVER ISSUE FOR THE POOL), L(m) INDICATED AND VERTICAL HOLE Ø100 mm FOR WASTE PIPE
- CONCRETE CHANNEL DIMENSIONS 20xH=10 cm ALIMENTED BY WATER OF RECYCLING (A NODE INDICATES A CHANGING SLOPE)
- PIPE OF PE (POLYETHYLENE) FOR RAIN WATER ON UNDERGROUND LEVEL, i=0.5% IF NOT SPECIFIED
- PIPE OF PVC SN8 Ø>=125 mm, FOR RAIN/EXHAUSTED WATER, i=1.0% IF NOT SPECIFIED
- PREFABRICATED MANHOLE FOR INSPECTION, IN CONCRETE WITH LID OF CAST IRON OF CL. C250
- PREFABRICATED MANHOLE FOR INSPECTION, IN HDPE WITH LID OF CAST IRON OF CL. D400
- VERTICAL RAIN PIPE FROM FLOOR LEVEL
- WATER FLOW DIRECTION AND SLOPE ON THE SURFACE
- IF NOT SPECIFIED, LEVELS ARE RELATED TO 0.00 LEVEL OF THE BUILDING
- BOTTOM PIPE (BP) LEVEL (m) REFERRED TO 0.00 LEVEL OF THE BUILDING
- STORAGE TANK IN PEHD Ø2000 mm, WITH SUBMERGED PUMP Q=2l/s, H=7m, P=0.75 kW FOR EMPTYING

NOTES

- CONNECTIONS BETWEEN PIPES WILL BE PERFORMED WITH ANGULAR ELEMENTS ON 45°, REDUCTIONS WILL HAVE ALIGNED UPPER LEVELS;
- PAVEMENT SURFACE WILL HAVE A SLOPE >= 0.2% TOWARDS DRAIN CHANNELS;
- BEFORE BUILDING, BUILDING COMPANY WILL CHECK POSSIBLE INTERFERENCE WITH OTHER TECHNICAL SYSTEM AND PIPES;
- FOR LEVELS OF PROJECT PAVEMENT VERIFY COMPARISON WITH STRUCTURAL AND ARCHITECTURAL PROJECT;
- SHOWED DIMENSIONS ARE IN mm;
- IN CASE THAT DIVERGENCE BETWEEN PROJECT DRAWINGS, IN ORDER:
 - MOST DETAILED DRAWINGS (SCALE 1:20 - 1:50)
 - TECHNICAL SPECIFICATIONS IN THE CONTRACT
- ARE PREDOMINANT INFORMATIONS:
- THE LEVEL 0.00 OF EXTERNAL PAVEMENTS COINCIDES WITH LEVEL +45.50 m a.s.l.;
- FOR DRAIN CHANNELS AND TYPOLOGICAL SECTION OF LAYING FOR PIPES SEE DETAILS ON DRAWING Ie100 AND Ie106.



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO

MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY

MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: FCM

MEP DESIGN: TIFS

ARCHITECTURAL DESIGN: MC A

LOCAL SUPPORT: DFS

Discipline - STRUCTURE: FRAME

Discipline - WATER AND SEWAGE: HIDROFOKUS

Discipline - ELECTRICAL WIRING / high voltage: SIEMENSYS

Discipline - ELECTRICAL WIRING / low voltage: slimes

Discipline - MECHANICAL SERVICES: NOVA ENERGIJA

Discipline - FIRE PROTECTION: PREVENJE

Building and location: Business building - Building of the Government of Montenegro

ENERGY EFFICIENT BUILDING

Urban plot 9

DUP "Univerzitetski centar" - amendments

Podgorica, Montenegro

ISSUE: MAIN DESIGN RAIN WATER DESIGN

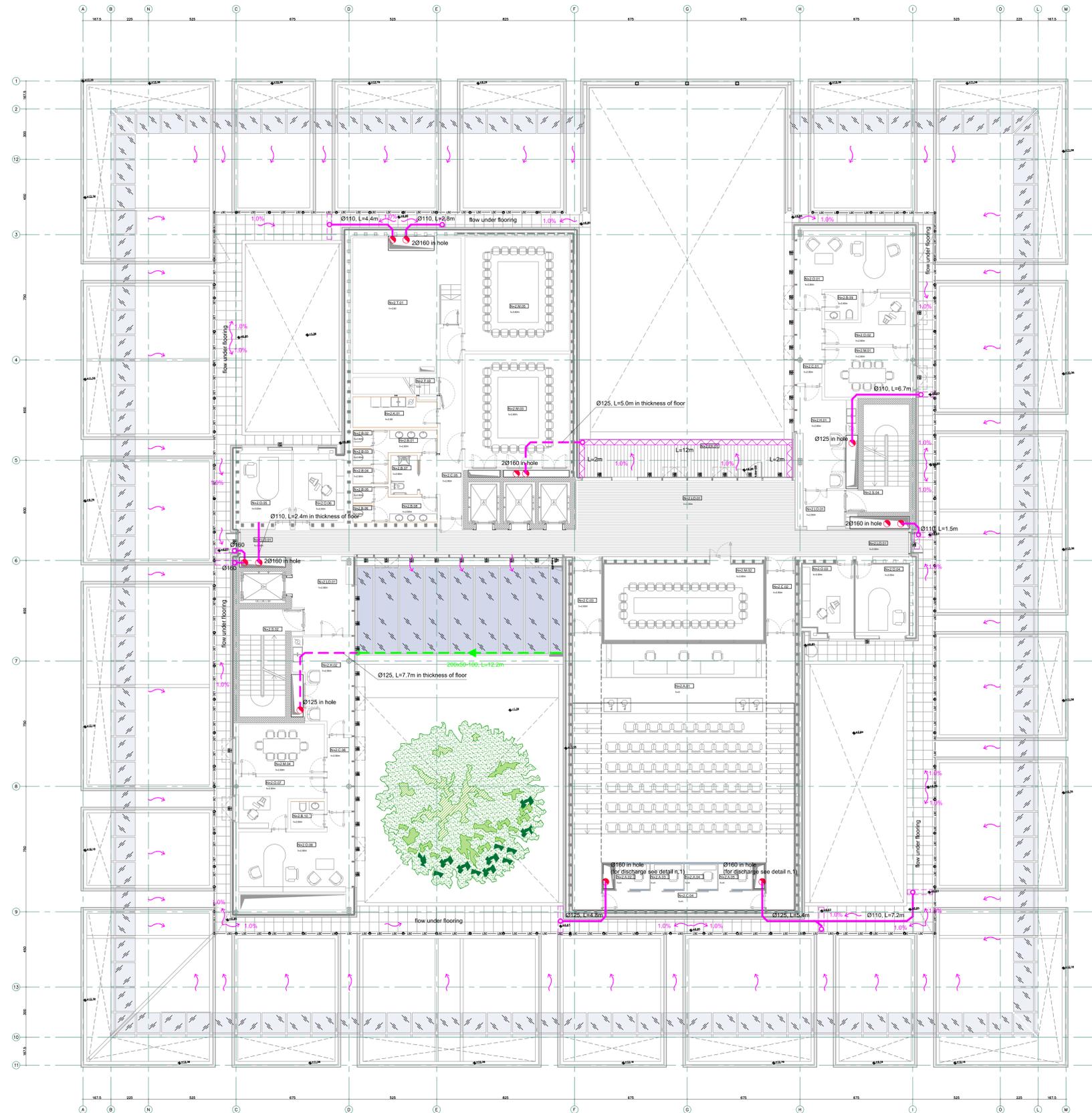
TITLE: WATER RAIN PLAN GROUND LEVEL

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
a	30/11/10	926_Ie103a.dwg	Adjustments to water rain plan from roof level	LDB	S.F.
b					
c					
d					

ISSUE NR: Ie103

DATE: 15/10/2010	SCALE: 1:200	FILE: 926_Ie_103.dwg
J.N. 926	DRAW: LDB	APPROVED: S.F.

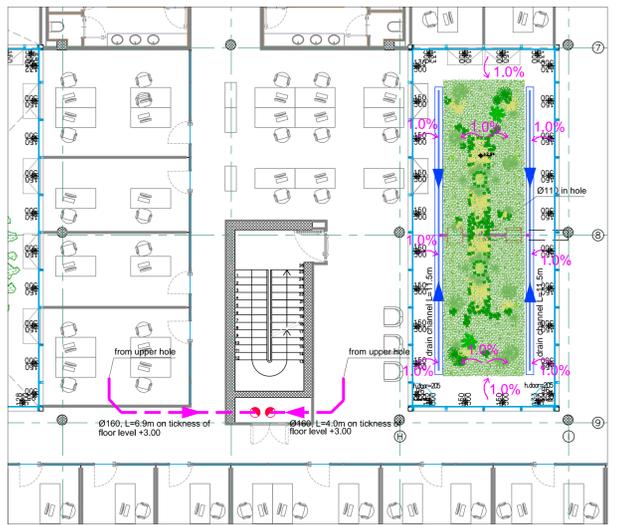
WATER RAIN PLAN AND COLLECTORS - LEVEL +7.00
Scale 1:100



- LEGEND**
- TYPE 3: PREFABRICATED DRAIN CHANNEL, IN REINFORCED CONCRETE, EXTERNAL DIMENSION 210mmx200 mm, LIMIT SPECIFIED, SIMILAR TO "FASERFIX STANDARD 150-HAURATON", WITH GRILLED MESH 30x30 mm OF ZINC-COATED STEEL CL. B125 AND VERTICAL HOLE Ø125 mm FOR WASTE PIPE (IF NOT INDICATED)
 - TYPE 4: PREFABRICATED DRAIN CHANNEL, IN PP-PE, EXTERNAL DIMENSION 254x140 mm (WITHOUT GRILL) SIMILAR TO "RECYFIX STANDARD-HAURATON", L=0.5 - 1.5m UNDER PAVEMENT WITH A VERTICAL HOLE Ø110-125-160 mm FOR WASTE PIPE (Ø INDICATED)
 - DRAINAGE PIPE OF PVC WITH CIRCUMFERENCE SLOTS, COVERED WITH GRAVEL AND GEOTEXTIL
 - DISCHARGE POINT WITH PIPE OF PE (POLYETHYLENE) Ø=110 mm FROM GRILLED DRAIN CHANNEL ON SHINGLE, PASSING THROUGH THE ROOF LAYER, i=0.5%
 - DISCHARGE POINT WITH PIPE OF PE Ø=110 mm FROM GUTTER ON SHINGLE, PASSING THROUGH THE ROOF LAYER, i=0.5%
 - METALLIC GUTTERS WITH SLOPE=0.2% (DIMENSIONS WIDTHxHEIGHT INDICATED) FOR DETAILS SEE ARCHITECTURAL PROJECT
 - PREFABRICATED MANHOLE FOR INSPECTION, IN CONCRETE WITH LID OF CAST IRON OF CL C250
 - VERTICAL PIPE (Ø INDICATED) OF PE, FROM BOTTOM SIDE OF ROOF LEVEL TO BOTTOM SIDE OF GROUND LEVEL
 - VERTICAL PIPE OF COPPER-COLOURED ALUMINUM (Ø INDICATED)
 - WATER FLOW DIRECTION AND SLOPE ON THE SURFACE OF SLIDING (OVER OR UNDER PAVING)
 - X.XX IF NOT SPECIFIED, LEVELS ARE RELATED TO 0.00 LEVEL OF THE BUILDING

- NOTES**
- CONNECTIONS BETWEEN PIPES WILL BE PERFORMED WITH ANGULAR ELEMENTS ON 45° REDUCTIONS WILL HAVE ALIGNED UPPER LEVELS;
 - PAVEMENT SURFACE WILL HAVE A SLOPE i=0.2% TOWARDS DRAIN CHANNELS;
 - BEFORE BUILDING, BUILDING COMPANY WILL CHECK POSSIBLE INTERFERENCE WITH OTHER TECHNICAL SYSTEM AND PIPES;
 - FOR LEVELS AND SLOPE OF PROJECT PAVEMENT VERIFY COMPARISON WITH STRUCTURAL AND ARCHITECTURAL PROJECT;
 - FOR DETAILS ON GUTTERS ON THE SHINGLE LEVEL SEE ARCHITECTURAL PROJECT;
 - IN CASE THAT DIVERGENCE BETWEEN PROJECT DRAWINGS, IN ORDER:
 - 1 - MOST DETAILED DRAWINGS (SCALE 1:20 - 1:50)
 - 2 - TECHNICAL SPECIFICATIONS IN THE CONTRACT
 - ARE PREDOMINANT INFORMATIONS.
 - FOR DRAIN CHANNELS SEE DETAILS ON DRAWING 1e106.

DETAIL N.1: COLLECTORS ON CEILING OF LEVEL +3.00
Scale 1:100



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
 MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
 MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: **FSM** (FASERFIX S.p.A.)
MEP DESIGN: **CITIS** (CITIS s.p.a.)
ARCHITECTURAL DESIGN: **MC A** (MC A s.p.a.)
LOCAL SUPPORT: **DFS** (DFS Engineering)

DESIGNER: **studio SYNTHESIS** (architecture & design)

STRUCTURE: **FRAME** (Project s.p.a.)
ELECTRICAL WIRING / HIGH VOLTAGE: **SIENSISS** (Siensiss s.p.a.)
MECHANICAL SERVICES: **NOVA ENERGIA** (NOVA ENERGIA s.p.a.)
WATER AND SERVICES: **HIROFOKUS** (Tig Nika Preradovic s.p.a.)
ELECTRICAL WIRING / LOW VOLTAGE: **SIENSISS** (Siensiss s.p.a.)
FIRE PROTECTION: **PREVIZIJA** (PREVIZIJA s.p.a.)

Building and location: Business building - Building of the Government of Montenegro
 ENERGY EFFICIENT BUILDING
 Urban plot 9
 DLP "Univerziteti center" - amendments
 Podgorica, Montenegro

ISSUE: **MAIN DESIGN** **RAIN WATER DESIGN**

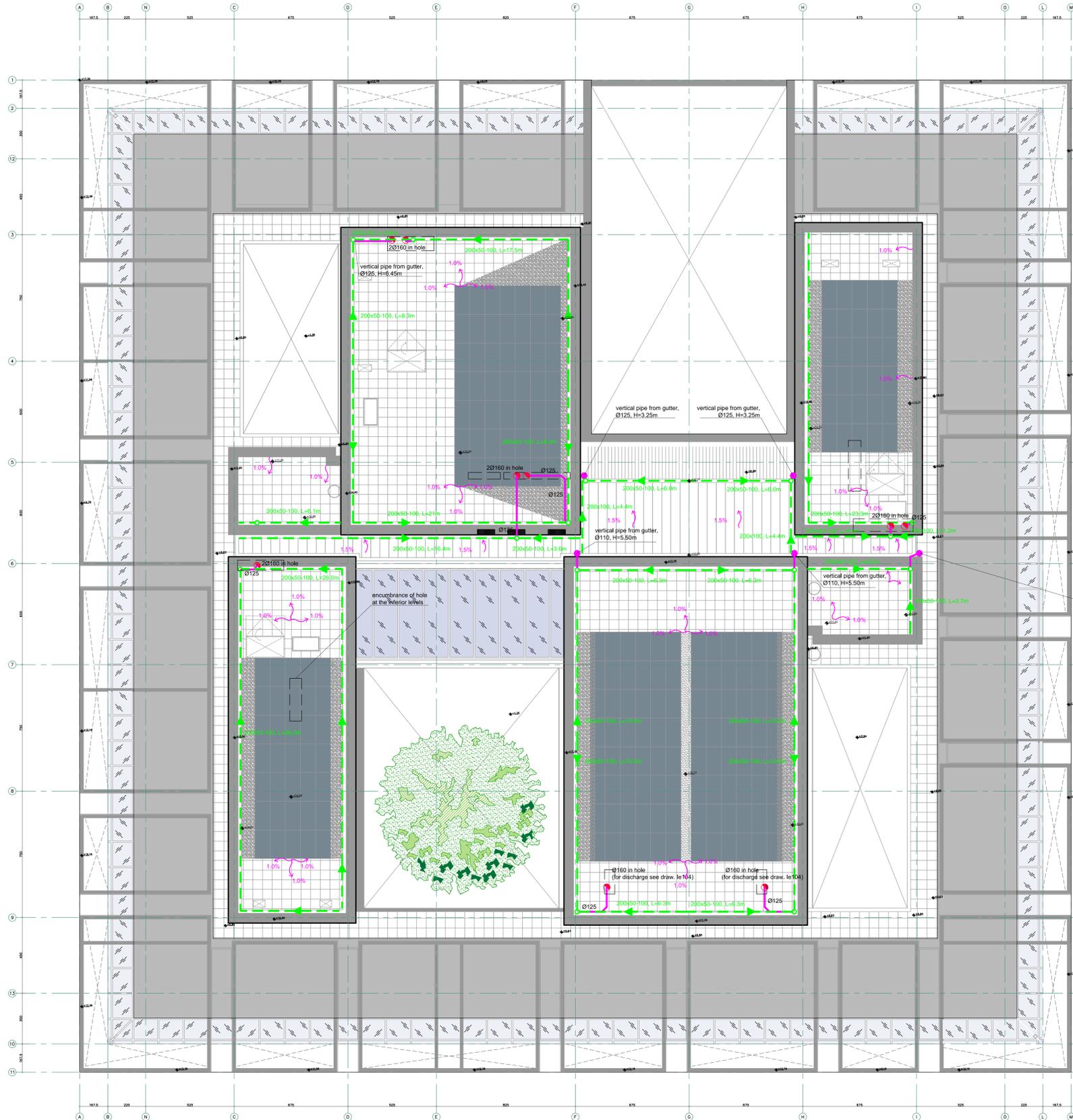
TITLE: WATER RAIN PLAN
 SECOND FLOOR, LEVEL +7.00

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
A	30/11/10	106_01106a.dwg	Adjustments to water rain plan from roof level	LDG	S.F.
B					
C					

ISSUE NO. **1e104**

DATE: 15/10/2010 SCALE: 1:100 FILE: 106_M_104.dwg
 DRAW: LDG APPROVED: S.F.

WATER RAIN PLAN AND COLLECTORS - ROOF LEVEL
Scale 1:100



LEGEND	
	DISCHARGE POINT WITH PIPE OF PE (POLYETHYLENE) Ø=110 mm FROM DRAIN CHANNEL ON SHINGLE, PASSING THROUGH THE ROOF LAYER, i=0.5%
	DISCHARGE POINT WITH PIPE OF PE Ø=110 mm FROM GUTTER, PASSING THROUGH THE ROOF LAYER, i=0.5%
	METALLIC GUTTERS WITH SLOPE=0.2% (DIMENSIONS WIDTHxHEIGHT INDICATED) FOR DETAILS SEE ARCHITECTURAL PROJECT
	PREFABRICATED MANHOLE FOR INSPECTION, IN CONCRETE WITH LID OF CAST IRON OF CL C250
	VERTICAL PIPE (Ø INDICATED) OF PE, FROM BOTTOM SIDE OF ROOF LEVEL TO BOTTOM SIDE OF GROUND LEVEL
	VERTICAL PIPE OF COPPER-COLOURED ALUMINUM (Ø INDICATED)
	WATER FLOW DIRECTION AND SLOPE ON THE SURFACE OF SLIDING (OVER OR UNDER PAVING)
	IF NOT SPECIFIED, LEVELS ARE RELATED TO 0.00 LEVEL OF THE BUILDING

- NOTES**
- CONNECTIONS BETWEEN PIPES WILL BE PERFORMED WITH ANGULAR ELEMENTS ON 45° REDUCTIONS WILL HAVE ALIGNED UPPER LEVELS.
 - PAVEMENT SURFACE WILL HAVE A SLOPE $\geq 0.2\%$ TOWARDS DRAIN CHANNELS.
 - BEFORE BUILDING, BUILDING COMPANY WILL CHECK POSSIBLE INTERFERENCE WITH OTHER TECHNICAL SYSTEM AND PIPES.
 - FOR LEVELS AND SLOPE OF PROJECT PAVEMENT VERIFY COMPARISON WITH STRUCTURAL AND ARCHITECTURAL PROJECT.
 - FOR DETAILS ON GUTTERS ON THE SHINGLE LEVEL SEE ARCHITECTURAL PROJECT.
 - SHOWN DIMENSIONS ARE IN mm.
 - IN CASE THAT DIVERGENCE BETWEEN PROJECT DRAWINGS, IN ORDER:
 - 1 - MOST DETAILED DRAWINGS (SCALE 1:20 - 1:50)
 - 2 - TECHNICAL SPECIFICATIONS IN THE CONTRACT ARE PREDOMINANT INFORMATIONS.
 - FOR DRAIN CHANNELS SEE DETAILS ON DRAWING Ie106.

INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE	
PROJECT MANAGEMENT AND STRUCTURAL DESIGN: FSM Via De Caracciolo, 68/A - 81020 Poggioreale, Caserta (Italy) Tel: +39 081 5981711 Fax: +39 081 4920253 www.fsm.it	MEP DESIGN: CTIFS Corso Sella Line 55, 38100 Pagnara, Bolzano (Italy) Tel: +39 0471 970011 www.ctifs.it
ARCHITECTURAL DESIGN: MC A Via De Caracciolo, 68/A - 81020 Poggioreale, Caserta (Italy) Tel: +39 081 5981711 www.mca.it	LOCAL SUPPORT: DFS Via S. Maria Maddalena 10, 81020 Poggioreale, Caserta (Italy) Tel: +39 081 5981711 www.dfs-engineering.com
Designer: studio SYNTHESIS architecture & design B.U. Strojna Vojvodina 55, 81000 Podgorica, Crna Gora Tel: +381 20 228 002 Fax: +381 20 228 002 www.studiosynthesis.com	Designer: WATER AND SERVICES: HIROFOKUS Tg. Nikola Preradović br. 2, 81000 Podgorica, Crna Gora Tel: +381 20 228 002 Fax: +381 20 228 002 www.hirofokus.com
Designer: ELECTRICAL WIRING / High Voltage: SIEMENS Ulica Crnogoraca br. 1, 81000 Podgorica, Crna Gora Tel: +381 20 228 002 Fax: +381 20 228 002 www.siemens.com	Designer: ELECTRICAL WIRING / Low Voltage: SIEMENS Ulica Crnogoraca br. 1, 81000 Podgorica, Crna Gora Tel: +381 20 228 002 Fax: +381 20 228 002 www.siemens.com
Designer: MECHANICAL SERVICES: NOVA ENERGIJA Ulica Crnogoraca br. 1, 81000 Podgorica, Crna Gora Tel: +381 20 228 002 Fax: +381 20 228 002 www.novaenergija.com	Designer: FIRE PROTECTION: PREVIZIJA Ulica Crnogoraca br. 1, 81000 Podgorica, Crna Gora Tel: +381 20 228 002 Fax: +381 20 228 002 www.previzija.com

Building and location:
Business building - Building of the Government of Montenegro
ENERGY EFFICIENT BUILDING
 Urban plot 9
 DJP "Univerzitetski centar" - amendments
 Podgorica, Montenegro

ISSUE:
MAIN DESIGN RAIN WATER DESIGN

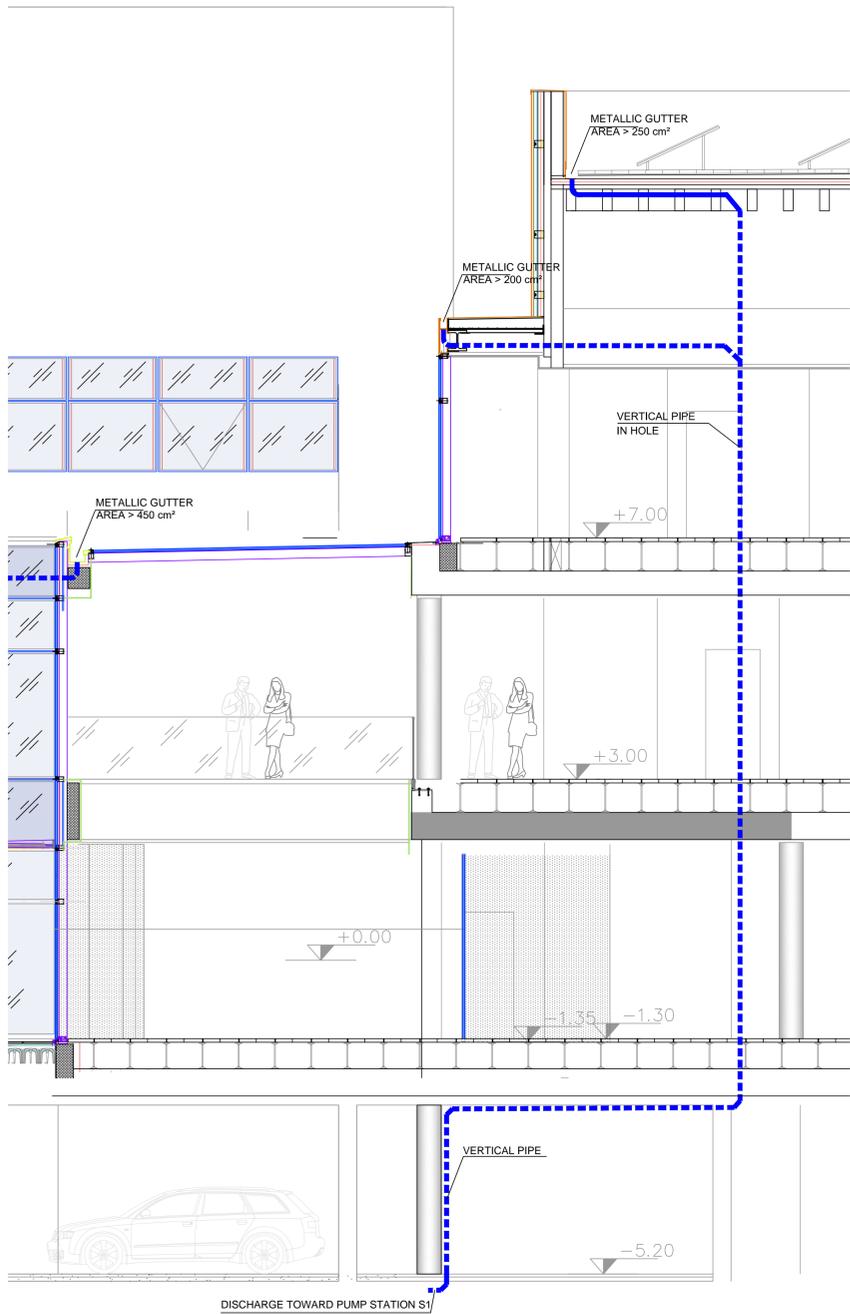
TITLE:
WATER RAIN PLAN ROOF LEVEL

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
A	30/11/20	108_1e105.dwg	Adjustments to water rain plan from roof level	LDB	S.F.
B					
C					
D					

ISSUE NO:
Ie105

DATE: 15/10/2010	SCALE: 1:100	FILE: 108_1e105.dwg
DRAWN: LDB	APPROVED: S.F.	

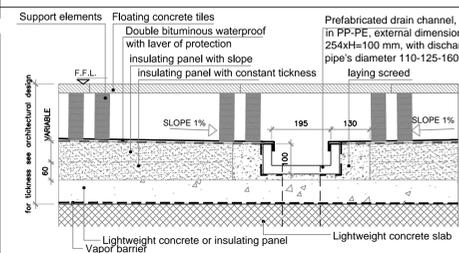
SCHEMATIC SECTION OF RAIN COLLECTOR'S NET
(Section on structural axis "E")
Scale 1:50



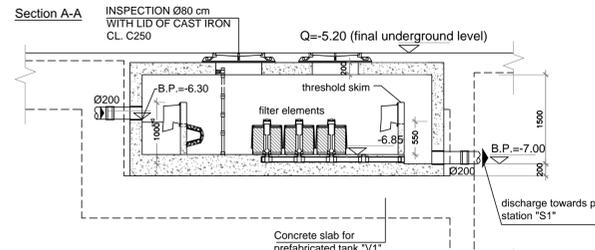
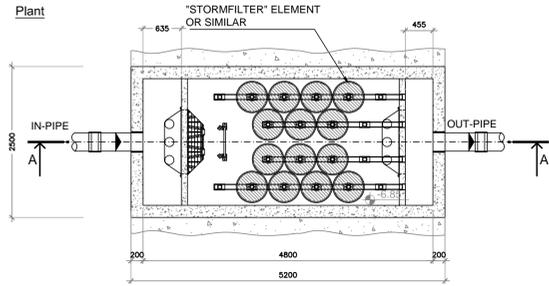
LEGEND

--- VERTICAL PIPE OF PE (POLYETHYLENE)

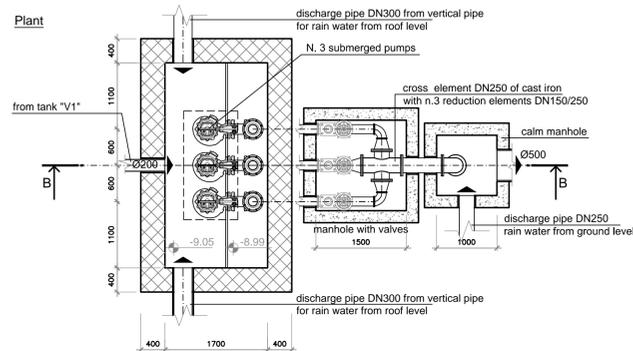
DETAILS OF DRAIN CHANNEL TYPE 4:
Scale 1:10



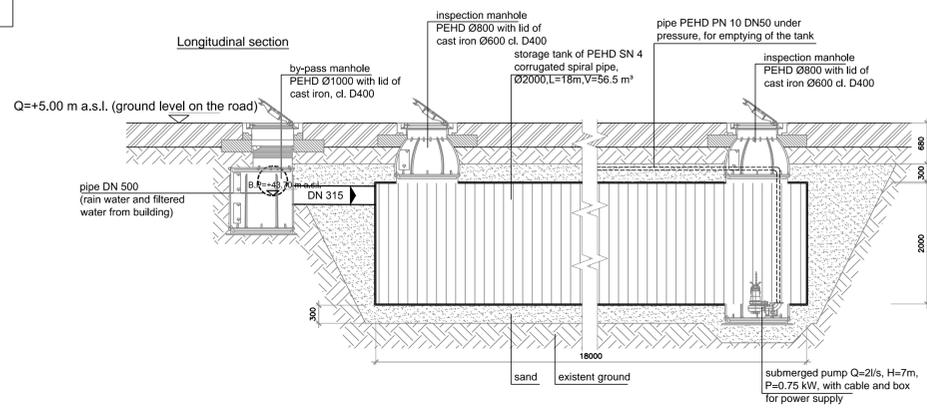
DETAILS OF TANK "V1" (FILTRATION SYSTEM ON UNDERGROUND LEVEL)
Scale 1:50



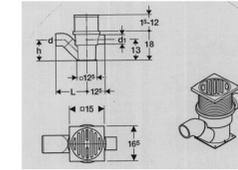
DETAILS OF PUMP STATION "S1" ON UNDERGROUND LEVEL
Scale 1:50



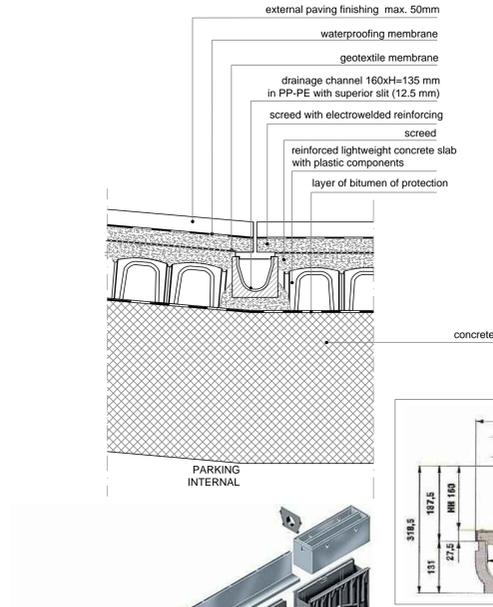
DETAILS OF STORAGE TANK "V2" ON GROUND LEVEL
Scale 1:50



DETAILS OF GULLY GRATING ON UNDERGROUND PARK



DETAILS OF DRAIN CHANNEL TYPE 1: CHANNEL IN PP-PE WITH SUPERIOR SLIT
Scale 1:10 (ON GROUND LEVEL)



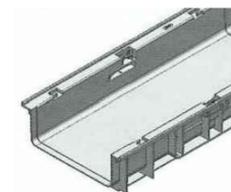
EXAMPLE OF DRAIN CHANNEL TYPE 2: GRILLED CHANNEL IN PP-PE ON GROUND LEVEL AND ROOF LEVEL



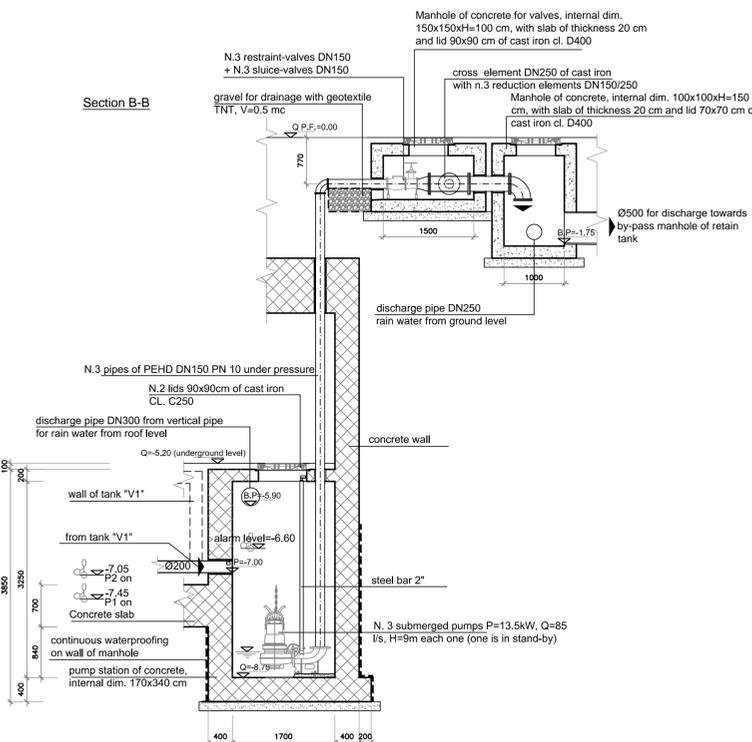
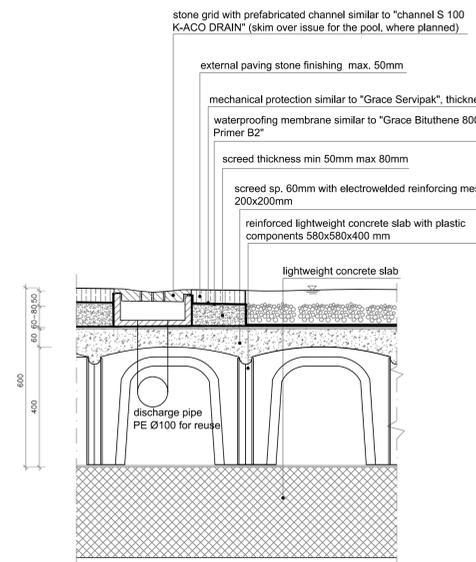
EXAMPLE OF DRAIN CHANNEL TYPE 3: GRILLED CHANNEL IN CONCRETE



EXAMPLE OF DRAIN CHANNEL TYPE 4: OPEN CHANNEL IN PP-PE UNDER PAVEMENT ON ROOF LEVEL



DETAILS OF DRAIN CHANNEL TYPE 5: CHANNEL WITH STONE GRID FOR SKIM OVER OF THE POOL ON GROUND LEVEL
Scale 1:10



<p>INVESTITORE: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO</p> <p>MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY</p> <p>Bul. Dobrota Valjeonica bb 81000 Podgorica, Crna Gora</p> <p>favero@milan.com</p>		<p>MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE</p> <p>Rižski Trg 46, PC "Viktra" 81000 Podgorica, Crna Gora</p>	
<p>PROJECT MANAGEMENT AND STRUCTURAL DESIGN:</p> <p>09020 Milano Venezia - Italia</p> <p>favero@milan.com</p>		<p>MEP DESIGN:</p> <p>09020 Milano Venezia - Italia</p> <p>favero@milan.com</p>	
<p>ARCHITECTURAL DESIGN:</p> <p>MC A</p> <p>Via De' Caracci, 6M - 40129 Bologna, Italia</p> <p>tel. +39 051 43 13 361 fax. +39 051 43 13 316</p>		<p>LOCAL SUPPORT:</p> <p>DFS Engineering</p> <p>Montenegro & BI 000 Podgorica, Montenegro</p> <p>tel. +382 20 228 051 e-mail info@dfs-engineering.com</p>	
<p>Designer:</p> <p>studio SYNTHESIS architecture & design</p> <p>Bul. Dobrota Valjeonica bb 81000 Podgorica, Crna Gora</p> <p>info@studio-synthesis.com</p>		<p>Discipline - WATER AND SEWAGE:</p> <p>HIDROFOKUS</p> <p>Trg Milice Kneževića br. 2 81000 Podgorica, Crna Gora</p> <p>tel. +382 20 228 051 e-mail info@hidrofokus.com</p>	
<p>Discipline - STRUCTURE:</p> <p>FRAME Project d.o.o.</p> <p>Prilaznik 10, Podgorica</p>		<p>Discipline - ELECTRICAL WIRING / low voltage:</p> <p>simis</p> <p>Trg Milice Kneževića br. 2 81000 Podgorica, Crna Gora</p> <p>tel. +382 20 228 051 e-mail info@simis.me</p>	
<p>Discipline - ELECTRICAL WIRING / high voltage:</p> <p>NOVA ENERGIJA</p> <p>Ulica 24. Proletarske Revolucije, Podgorica</p>		<p>Discipline - FIRE PROTECTION:</p> <p>PREVIZIJA d.o.o.</p> <p>Ulica 24. Proletarske Revolucije, Podgorica</p>	

Building and location:
Business building - Building of the Government of Montenegro
ENERGY EFFICIENT BUILDING
Urban plot 9
DUP "Univerzitetski centar" - amendments
Podgorica, Montenegro

ISSUE: **MAIN DESIGN** **RAIN WATER DESIGN**

TITLE: **WATER RAIN PLAN SECTIONS AND DETAILS**

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
a	30/11/10	SOE_16105a.dwg	Adjustments to water rain plan from roof level	LDB	S.F.
b					
c					
d					

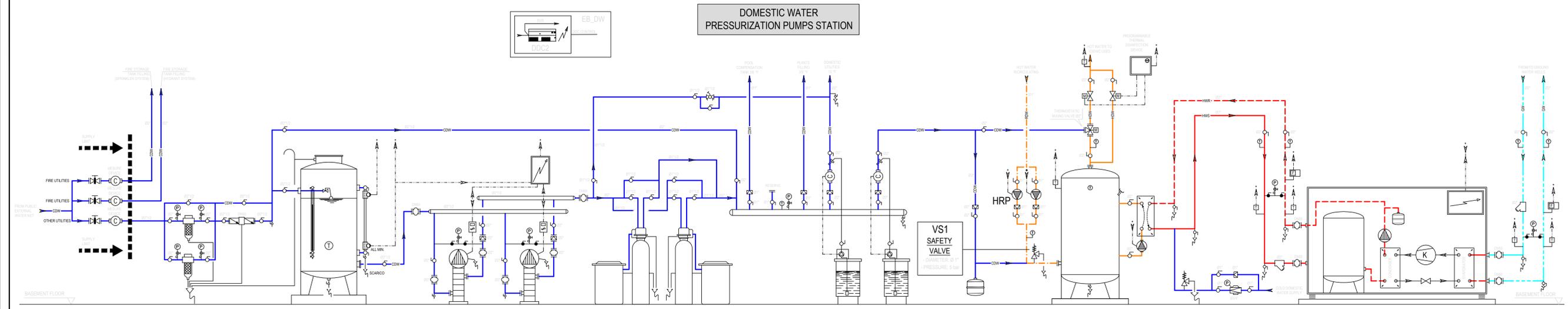
ISSUE NR. **le106**

DATE: 15/10/2010 SCALE: 1:50-1:10 FILE: 926_le_106.dwg

JN 926 DRAW: LDB APPROVED: S.F.

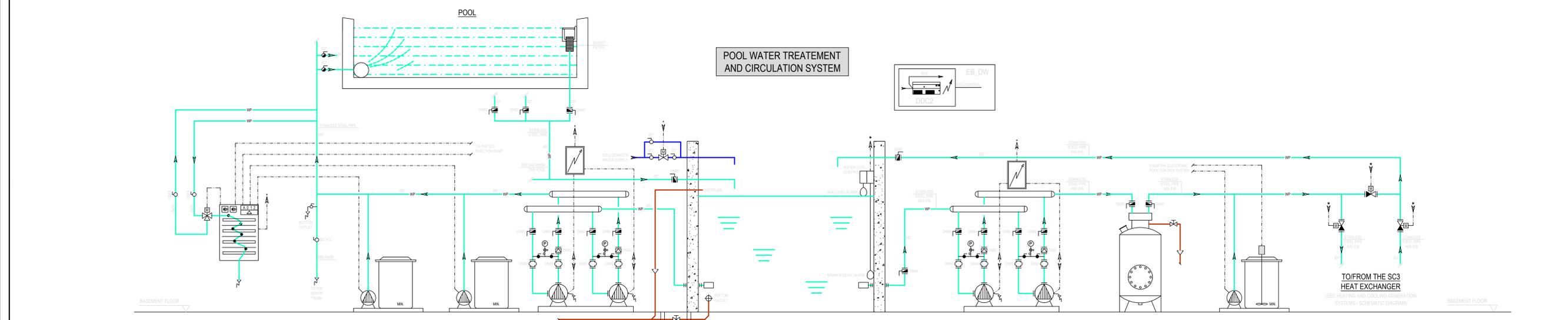
NOTES

- CONNECTIONS BETWEEN PIPES WILL BE PERFORMED WITH ANGULAR ELEMENTS ON 45° REDUCTIONS WILL HAVE ALIGNED UPPER LEVELS;
- PAVEMENT SURFACE WILL HAVE A SLOPE >= 0.2% TOWARDS DRAIN CHANNELS;
- BEFORE BUILDING, BUILDING COMPANY WILL CHECK POSSIBLE INTERFERENCE WITH OTHER TECHNICAL SYSTEM AND PIPES;
- FOR LEVELS OF PROJECT PAVEMENT VERIFY COMPARISON WITH STRUCTURAL AND ARCHITECTURAL PROJECT;
- FOR DETAILS ON GUTTERS ON THE SHINGLE LEVEL SEE ARCHITECTURAL PROJECT;
- SHOWED DIMENSIONS ARE IN mm;
- IN CASE THAT DIVERGENCE BETWEEN PROJECT DRAWINGS, IN ORDER:
 - 1 - MOST DETAILED DRAWINGS (SCALE 1:20 - 1:50)
 - 2 - TECHNICAL SPECIFICATIONS IN THE CONTRACT ARE PREDOMINANT INFORMATIONS.



LEGEND			
	BALL VALVE		FLOW SWITCH
	BALL CHECK VALVE		FLOW METER
	STAINLESS STEEL BUTTERFLY VALVE		BACKFLOW PREVENTER
	BALANCING VALVE		SWING CHECK VALVE
	GATE VALVE WITH RUBBER-ENCAPSULATED WEDGE		PRESSURE REDUCING VALVE
	MOTORIZED BUTTERFLY VALVE		FINE CLEANING WATER FILTER
	MOTORIZED 2 WAY CONTROL VALVE		FUNNEL DRAIN
	MOTORIZED 3 WAY CONTROL VALVE		ELECTRIC MOTOR DRIVEN PUMP
	SAFETY RELIEF VALVE		INSTRUMENT CONNECTION
	LIFT CHECK VALVE		INVERTER
	EXPANSION JOINT		HWS HOT WATER SUPPLY
	Y STRAINER		HWR HOT WATER RETURN
	VOLUMETRIC WATER-METER		CDW COLD DOMESTIC WATER
	ELECTRICAL ENERGY METER		HDW HOT DOMESTIC WATER
	THERMOMETER		ROW RECIRCULATING HOT DOMESTIC WATER
	SENSOR X: P - PRESSURE X: T - TEMPERATURE X: H - HUMIDITY X: V - SPEED		WP WATER POOL
	PRESSURE GAUGE		GW GROUND WATER
	DIFFERENTIAL PRESSURE CONTROL DEVICE		ELECTRIC CONTROL SIGNAL
	PRESSURE CONTROL DEVICE		(*) WIRE-LINE TOPFROM BUILDING MANAGEMENT SYSTEM
	LIQUID LEVEL CONTROLLER		

- WF SELF CLEANING WATER FILTERS**
- VOLUME FLOW: 10 m³/h each
- PRESSURE: 10 bar
- RPZD REDUCED PRESSURE ZONE DEVICE**
- WST OPEN WATER STORAGE TANK**
- STAINLESS STEEL AISI 316
- DWP DOMESTIC WATER PUMPING GROUP**
- VOLUME FLOW: 10 m³/h each
- PRESSURE: 40 mPa
- BUILT-IN INVERTER
- 2 PUMPS (1 STAND BY)
- ADD N°2 WATER SOFTENER SYSTEM**
- NORMAL FLOW: 8 m³/h each
- PARALLEL WORKING
- VOLUME BASED CONTROLLER
- SD5 INJECTION PUMP**
- SANITARY CIRCUIT
- SD4 INJECTION PUMP**
- SANITARY CIRCUIT
- VE EXPANSION VESSEL**
- PRE-LOAD: 3.5 bar
- HRP HOT RECIRCULATING PUMP**
- VOLUME FLOW: 100 m³/h each
- PRESSURE: 70 mPa
- WSA HOT DOMESTIC WATER STORAGE TANK**
- CAPACITY: 3000 litres
- WITH EXTERNAL HEAT EXCHANGER AND PUMP
- CAPACITY: 33 kW
- PRIMARY CIRCUIT
- VOLUME FLOW: 8400 litres
- TEMP. IN/OUT: 45 °C - 65 °C
- SECONDARY CIRCUIT
- VOLUME FLOW: 3000 litres
- TEMP.: 60 °C
- PC DOMESTIC WATER HEAT PUMP UNIT**
- COP HEATING: 2.98
- SUMMER
- SOURCE WATER IN/OUT: 18°/28 °C
- HOT WATER IN/OUT: 40°/47 °C
- WINTER
- SOURCE WATER IN/OUT: 12°/16 °C
- HOT WATER IN/OUT: 40°/47 °C
- PUMP
- VOLUME FLOW: 5400 litres
- PRESSURE: 70 mPa
- WATER-TANK
- CAPACITY: 100 litres



- EPCS ELECTRONIC POOL CONTROL SYSTEM**
- ELECTRICAL PANEL INCLUDED
- SD1 INJECTION PUMP**
- SANITARY CIRCUIT
- WATER TREATMENT TANK INCLUDED
- SD2 INJECTION PUMP**
- SANITARY CIRCUIT
- WATER TREATMENT TANK INCLUDED
- PP1-2 POOL PUMPING GROUP**
- VOLUME FLOW: 10 m³/h each
- PRESSURE: 40 mPa
- PARALLEL WORKING
- CT COMPENSATION TANK**
- VOLUME: 50 m³
- CTP1-2 COMPENSATION TANK PUMPING GROUP**
- VOLUME FLOW: 10 m³/h each
- PRESSURE: 130 mPa
- (1 STAND BY)
- APF AUTOMATIC POOL FILTER**
- FILTER FLOW: 10 m³/h
- SD3 INJECTION PUMP**
- FLOOR-CLEANING WATER TREATMENT TANK INCLUDED

INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO

MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY

MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: **FOM**

MEP DESIGN: **MATERIO-TIFIS**

ARCHITECTURAL DESIGN: **MC A**

LOCAL SUPPORT: **DFS**

Discipline - STRUCTURE: **PROJEKT D.O.O.**

Discipline - WATER AND SEWAGE: **HIDROFOKUS**

Discipline - ELECTRICAL WIRING / High Voltage: **SIENERSYS**

Discipline - ELECTRICAL WIRING / Low Voltage: **SIMES**

Discipline - MECHANICAL SERVICES: **NOVA ENERGIJA**

Discipline - FIRE PROTECTION: **PREVIZIJA**

Building and location: **Business building - Building of the Government of Montenegro**
Urban plot 9
DUP "Univerzitetski centar" - amendments
Podgorica, Montenegro

ISSUE: **MAIN DESIGN** WATER DRAWINGS AND REPORT

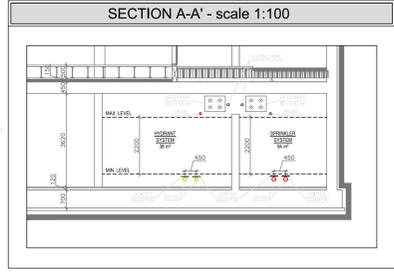
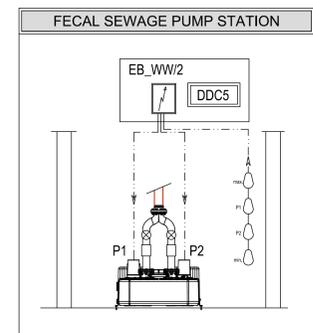
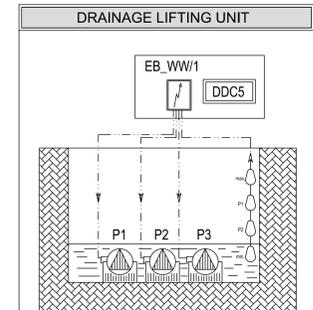
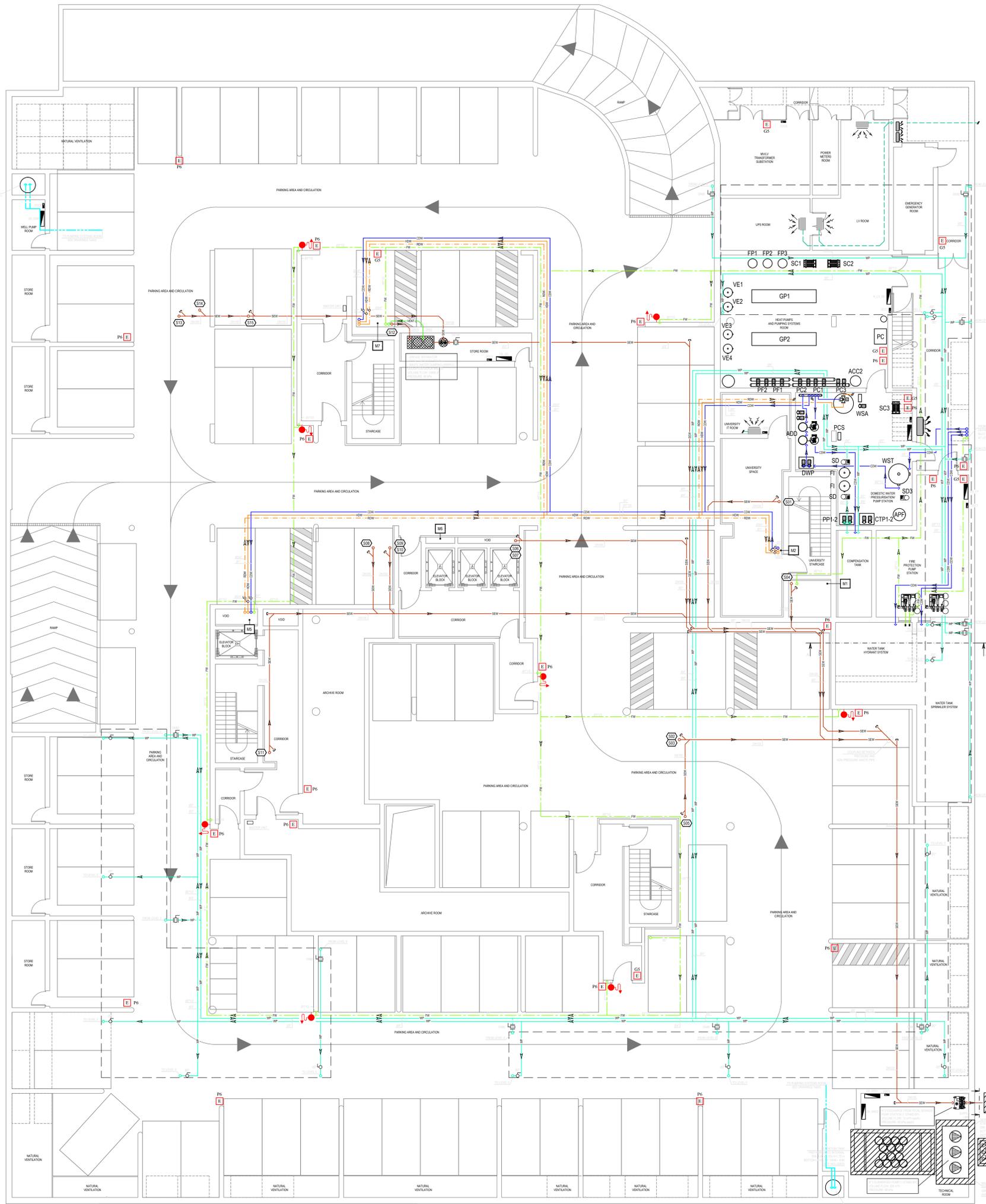
TITLE: **PUBLIC HEALTH SANITARY SCHEMATIC**

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
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b					
c					
d					

ISSUE NR. **le_201**

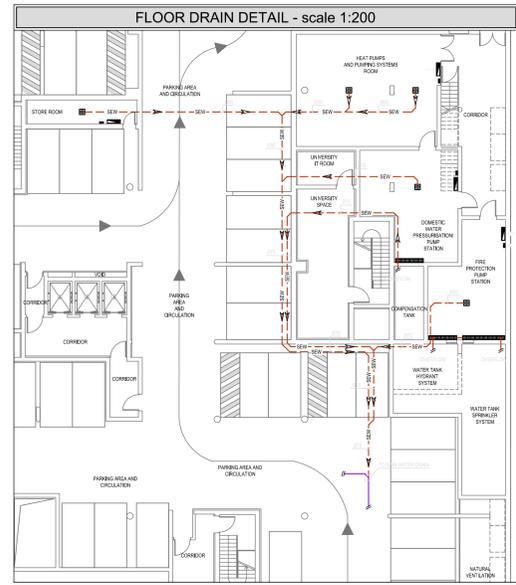
DATE: 30/11/2010 SCALE: - FILE: 926_le_201.dwg

J.N. 926 DRAW: G. A. APPROVED: R. M.



MECHANICAL SHAFT		WATER POOL	
MECHANICAL SHAFT	COLLUM SEWAGE NUMBERS	WP	COLD DOMESTIC WATER
FIRE HOSE	PORTABLE POWDER EXTINGUISHER (kg)	CDW	HOT DOMESTIC WATER
PORTABLE EXTINGUISHER CARBON DIOXIDE (kg)	FLOOR DRAIN	RDW	RECYCULATING HOT DOMESTIC WATER
BUTTERFLY VALVE	BALL VALVE	HW	PIPE FIRE
WATER METER		SEW	CEILING SEWAGE PIPE
		SEW	UNDER SLAB SEWAGE PIPE
		VENT	CONDENSATION PIPE
			CONDENSATE DRAIN

PIPE INSULATIONS					
CIRCUIT	LOCATION	MATERIAL	INSULATION	INSULATION THICKNESS	EXTERNAL COVER WHEN EXPOSED
COLD DOMESTIC WATER	Underground	PuHD	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
COLD DOMESTIC WATER	Non-heated area	Galvanized steel	Flexible elastomeric foam	13	-
COLD DOMESTIC WATER	Heated area (in the manifolds)	Galvanized steel	Flexible elastomeric foam	9	-
COLD DOMESTIC WATER	From the manifolds to the plumbing fixtures	PuX-AL-PuHD	Flexible elastomeric foam	13	-
HOT DOMESTIC WATER (RECYCULATING INCLUDED)	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet
HOT DOMESTIC WATER (RECYCULATING INCLUDED)	Heated area (in the manifolds)	Galvanized steel	Flexible elastomeric foam	13	-
HOT DOMESTIC WATER (RECYCULATING INCLUDED)	From the manifolds to the plumbing fixtures	PuX-AL-PuHD	Flexible elastomeric foam	9	-
CONDENSATE DRAIN	Everywhere	Polyethylene	-	-	-
SEWAGE	Everywhere except level -1	Polyethylene	-	-	-
SEWAGE	Level -1	Grey cast iron	-	-	-
SEWAGE VENTILATION	Everywhere	Polyethylene	-	-	-
POOL	Everywhere	Stainless steel AISI304	-	-	-
FIRE	Central part	Painted black steel	Flexible elastomeric foam	13	Aluminum sheet
FIRE	Non-heated area	Painted black steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
FIRE	Heated area	Painted black steel	-	-	-
PRESSURE FILTER	Everywhere	Calcium silicate insulated	-	-	-



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
 MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
 MINISTARSTVO UREĐENJA I ZAŠTITE ŽIVOTNE SREDINE

PROJECT MANAGER AND STRUCTURAL DESIGNER: **FCM** (Fondazione CIMA)

MECHANICAL DESIGN: **MC A** (MONTENEGRO CONSULTING)

DESIGN: **studio SYNTHESIS architecture & design**

STRUCTURE: **FRAME**

ELECTRICAL WIRING / High voltage: **SINERSYS**

ELECTRICAL WIRING / Low voltage: **NOVA ENERGIJA**

WATER AND SEWAGE: **HIDROFOKUS**

ELECTRICAL WIRING / Low voltage: **SINERSYS**

FIRE PROTECTION: **PREVETA**

Business building - Building of the Government of Montenegro
 ENERGY EFFICIENT BUILDING
 Urban plot 9
 DUP "Univerzitetski centar" - amendments
 Podgorica, Montenegro

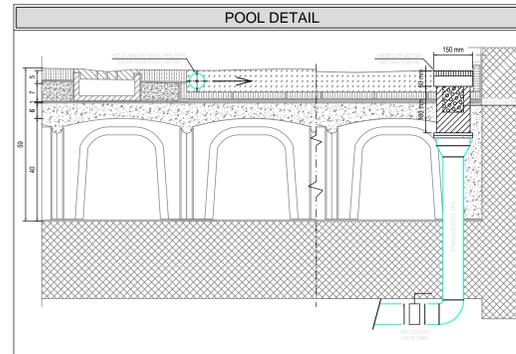
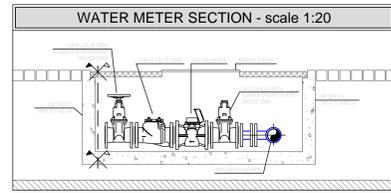
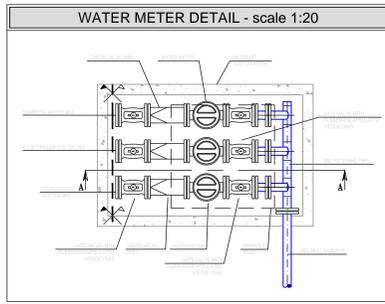
ISSUE: **MAIN DESIGN** WATER DRAWINGS AND REPORT

TITLE: PUBLIC HEALTH SANITARY LAYOUT LEVEL -1

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
1					
2					
3					
4					
5					
6					

ISSUE NR. **le_202**

DATE: 30/11/2010 SCALE: 1:100 FILE: 506_10_202.dwg
 J.N. 506 DRAW: G.A. APPROVED: R.M.

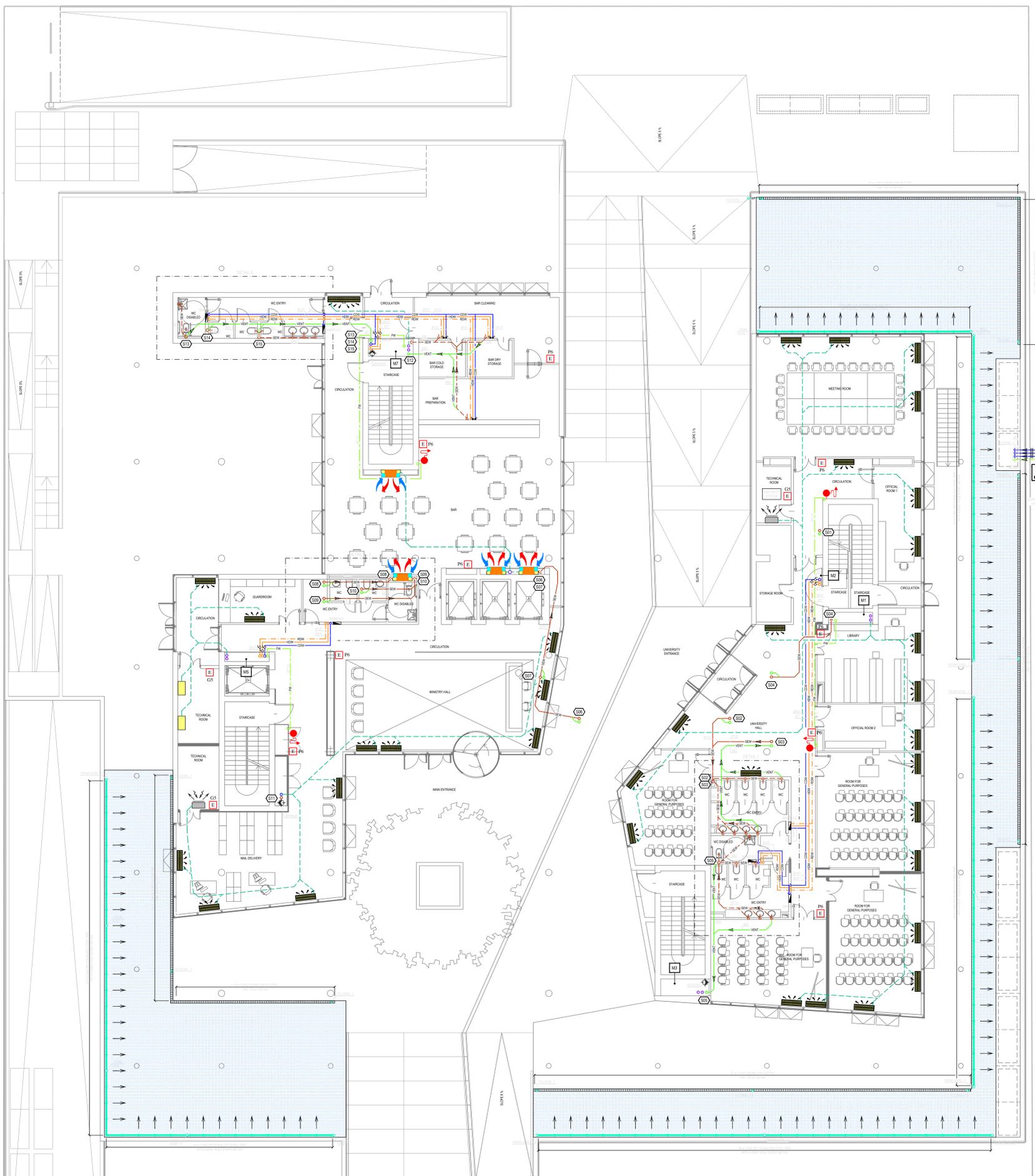
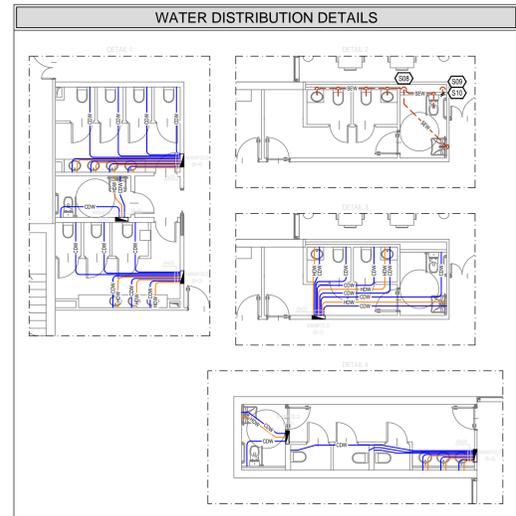


LEGEND

	MECHANICAL SHAFT		WATER POOL
	COLUMN SEWAGE NUMBERS		COLD DOMESTIC WATER
	FIRE HOSE		HOT DOMESTIC WATER
	PORTABLE POWDER EXTINGUISHER (6kg)		RECIRCULATING HOT DOMESTIC WATER
	PORTABLE EXTINGUISHER CARBON DIOXIDE (6kg)		PIPE FIRE
	FLOOR DRAIN		CEILING SEWAGE PIPE
	BUTTERFLY VALVE		UNDER SLAB SEWAGE PIPE
	BALL VALVE		VENTILATION PIPE
	WATER METER		CONDENSATE DRAIN

PIPE INSULATIONS

CIRCUIT	LOCATION	MATERIAL	INSULATION	INSULATION THICKNESS	EXTERNAL COVER WHEN EXPOSED
COLD DOMESTIC WATER	Underground	PuHD	-	-	-
COLD DOMESTIC WATER	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
COLD DOMESTIC WATER	Heated area of the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
COLD DOMESTIC WATER	From the manifolds to the plumbing fixtures	PuX-Al-PuHD	Flexible elastomeric foam	9	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Heated area of the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	From the manifolds to the plumbing fixtures	PuX-Al-PuHD	Flexible elastomeric foam	9	-
CONDENSATE DRAIN	Everywhere	Polyethylene	-	-	-
SEWAGE	Everywhere except level -1	Polyethylene	-	-	-
SEWAGE	Level -1	Grey cast iron	-	-	-
SEWAGE VENTILATION	Everywhere	Polyethylene	-	-	-
POOL	Everywhere	Stainless steel AISI304	-	-	-
POOL	Central Plant	Stainless steel AISI304	Flexible elastomeric foam	13	Aluminum sheet
FIRE	Non-heated area	Painted black steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
FIRE	Heated area	Painted black steel	-	-	-
PRESSURE FILTER	Everywhere	Calcium silicate insulated	-	-	-



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE PROSTORA
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 Fax: +382 20 224 085
 Email: info@prevenis.me

Building and Services:
Business building - building of the Government of Montenegro
ENERGY EFFICIENT BUILDING
 Urban plot 9
 DUP "Univerzitetski centar" - amendments
 Podgorica, Montenegro

ISSUE:
MAIN DESIGN WATER DRAWINGS AND REPORT

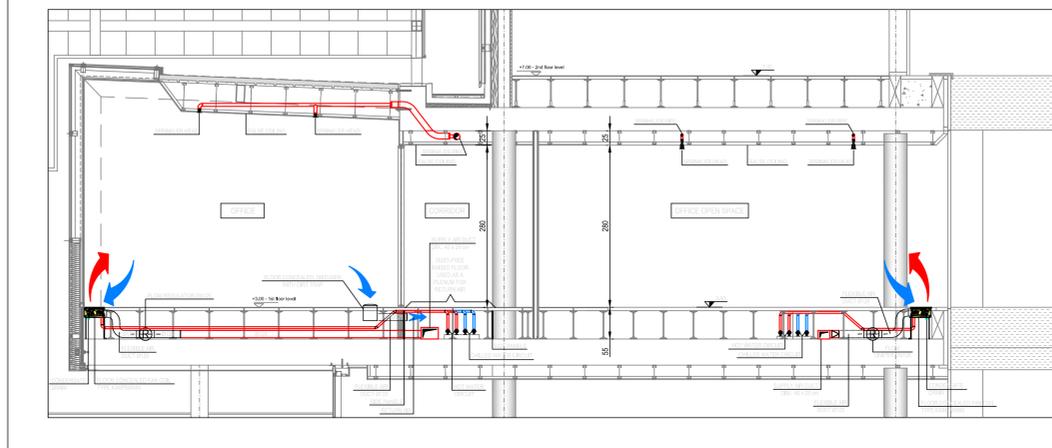
TITLE:
 PUBLIC HEALTH SANITARY LAYOUT LEVEL 0

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
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2					
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ISSUE NR. **le_203**

DATE: 30/11/2010 **SCALE:** 1:100 **FILE:** 506_10_203.dwg
J.N. 506 **DRAWN:** G. A. **APPROVED:** R. M.

SECTION A-A' - scale 1:50



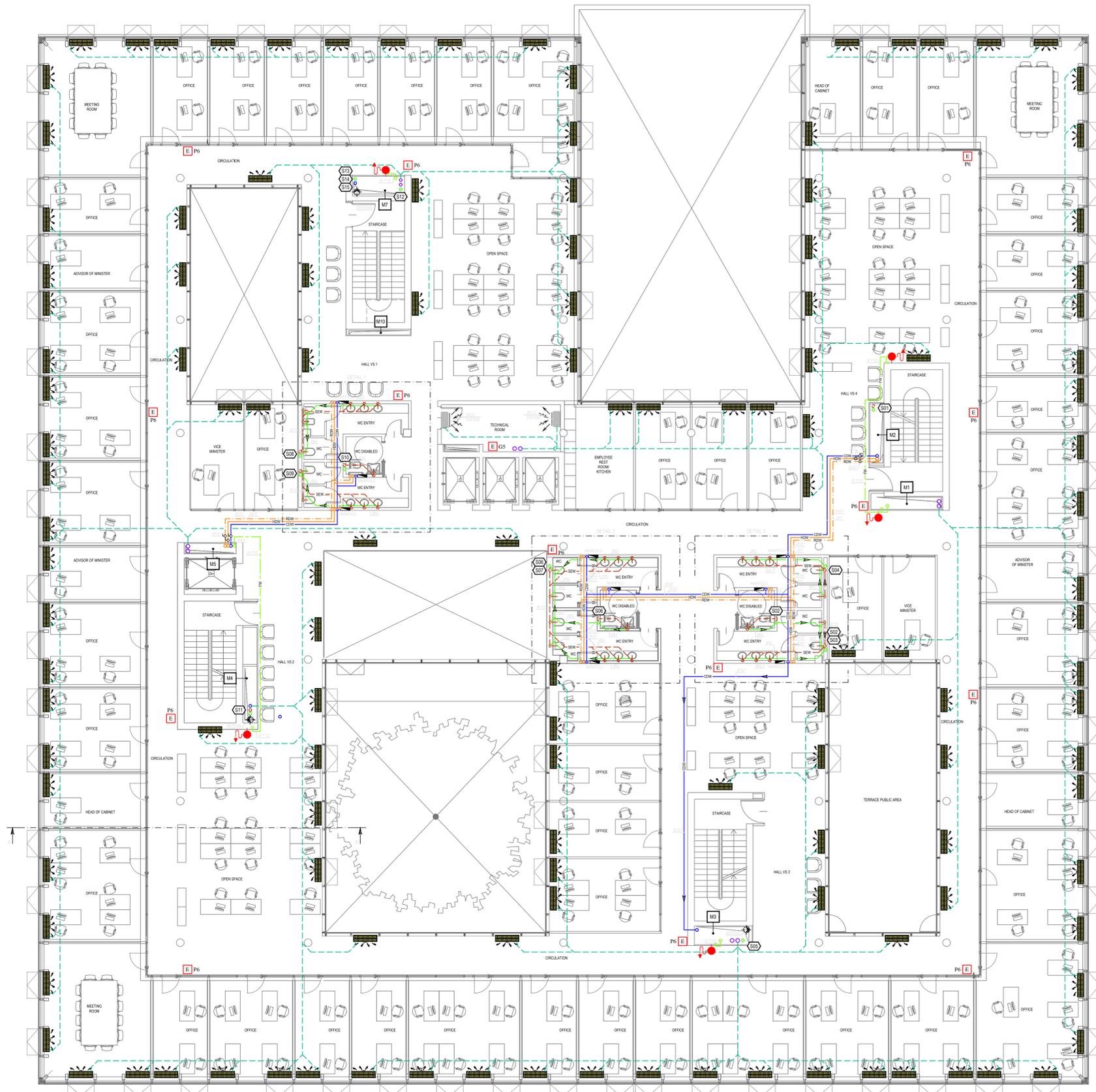
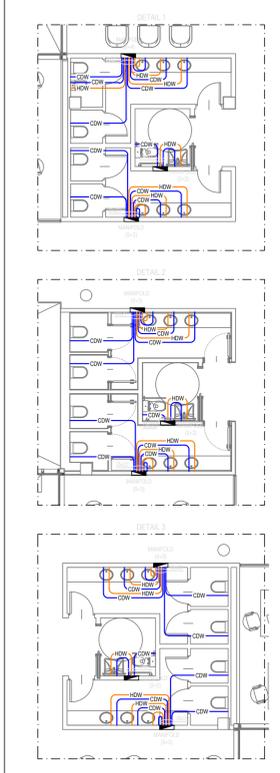
LEGEND

Mx	MECHANICAL SHAFT	WP	WATER POOL
Sx	COLUMN SEWAGE NUMBERS	CDW	COLD DOMESTIC WATER
+	FIRE HOSE	HDW	HOT DOMESTIC WATER
P6 E	PORTABLE POWDER EXTINGUISHER (KG)	RDW	RECIRCULATING HOT DOMESTIC WATER
G5 E	PORTABLE EXTINGUISHER CARBON DIOXIDE (KG)	-FW	PIPE FIRE
FD	FLOOR DRAIN	-SEW	CEILING SEWAGE PIPE
BV	BUTTERFLY VALVE	-SEW-	UNDER SLAB SEWAGE PIPE
SV	BALL VALVE	-VENT	VENTILATION PIPE
WM	WATER METER	-CD	CONDENSATE DRAIN

PIPE INSULATIONS

CIRCUIT	LOCATION	MATERIAL	INSULATION	INSULATION THICKNESS	EXTERNAL COVER WHEN EXPOSED
COLD DOMESTIC WATER	Underground	PvHD	-	-	-
COLD DOMESTIC WATER	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
COLD DOMESTIC WATER	Heated area at the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
COLD DOMESTIC WATER	From the manifolds to the plumbing fixtures	PvK-Al-PvHD	Flexible elastomeric foam	9	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Heated area at the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	From the manifolds to the plumbing fixtures	PvK-Al-PvHD	Flexible elastomeric foam	9	-
CONDENSATE DRAIN	Everywhere	Polyethylene	-	-	-
SEWAGE	Everywhere except level -1	Polyethylene	-	-	-
SEWAGE	Level -1	Grey cast iron	-	-	-
SEWAGE VENTILATION	Everywhere	Polyethylene	-	-	-
POOL	Everywhere	Stainless steel AISI304	-	-	-
POOL	Central Plant	Stainless steel AISI304	Flexible elastomeric foam	13	Aluminum sheet
FIRE	Non-heated area	Painted black steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
FIRE	Heated area	Painted black steel	-	-	-
PRESSURE FILTER	Everywhere	Calcium silicate insulated	-	-	-

WATER DISTRIBUTION DETAILS



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
 MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
 MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE OF THE REPUBLIC OF MONTENEGRO

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: **F&M** favorin@f&m.it
 ARCHITECTURAL DESIGN: **MC A** Via De Caracci, 6M - 40129 Bologna, Italia
 ENGINEER: **studio SYNTHESIS** architecture & design

MECHANICAL SERVICES: **NOVA ENERGIJA**
 WATER AND SEWAGE: **HIROFOKUS**
 ELECTRICAL WIRING / High voltage: **SIENERSYS**
 ELECTRICAL WIRING / Low voltage: **slimes**
 FIRE PROTECTION: **PREVETA**

Building and location: **Business building - building of the Government of Montenegro**
 ENERGY EFFICIENT BUILDING
 Urban plot 9
 DUP "Univerzitetski centar" - amendments
 Podgorica, Montenegro

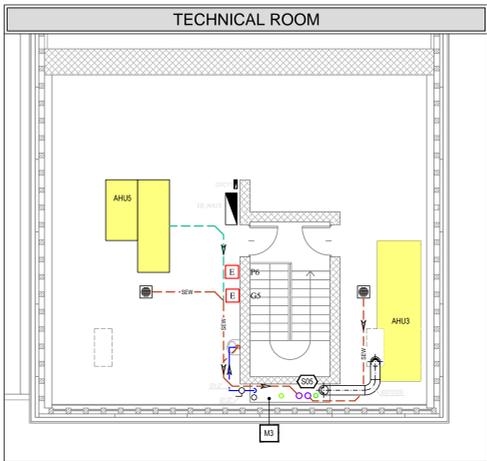
ISSUE: **MAIN PROJECT WATER DRAWINGS AND REPORT**

TITLE: **PUBLIC HEALTH SANITARY LAYOUT LEVEL 1**

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
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c					
d					

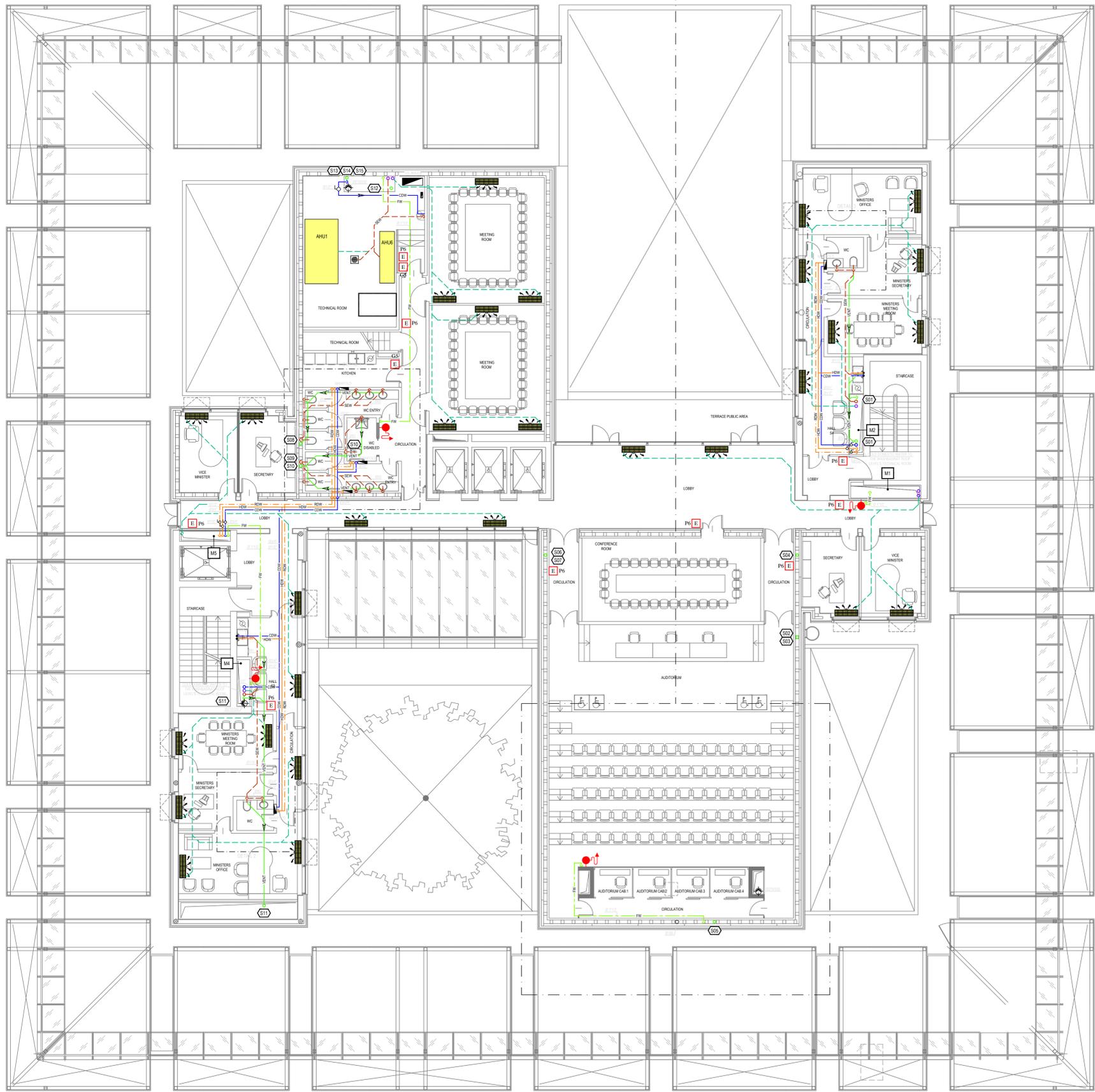
ISSUE NR. **le_204**

DATE: 30/11/2010 SCALE: 1:100 FILE: 908_le_204.dwg
 UN: 928 DRAW: G. A. APPROVED: R. M.



LEGEND			
Mx	MECHANICAL SHAFT	WP	WATER POOL
Sx	COLUMN SEWAGE NUMBERS	CDW	COLD DOMESTIC WATER
Fire Hose	FIRE HOSE	HDW	HOT DOMESTIC WATER
P6 E	PORTABLE POWDER EXTINGUISHER (6kg)	RDW	RECIRCULATING HOT DOMESTIC WATER
C5 E	PORTABLE EXTINGUISHER CARBON DIOXIDE (6kg)	FW	PIPE FIRE
FD	FLOOR DRAIN	SEW	CEILING SEWAGE PIPE
BV	BUTTERFLY VALVE	SEW	UNDER SLAB SEWAGE PIPE
Ball Valve	BALL VALVE	VENT	VENTILATION PIPE
Water Meter	WATER METER	COND	CONDENSATE DRAIN

PIPE INSULATIONS					
CIRCUIT	LOCATION	MATERIAL	INSULATION	INSULATION THICKNESS	EXTERNAL COVER WHEN EXPOSED
COLD DOMESTIC WATER	Underground	PeHD	-	-	-
COLD DOMESTIC WATER	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
COLD DOMESTIC WATER	Heated area at the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
COLD DOMESTIC WATER	From the manifolds to the plumbing fixtures	PeX-Al-PeHD	Flexible elastomeric foam	9	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Heated area at the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	From the manifolds to the plumbing fixtures	PeX-Al-PeHD	Flexible elastomeric foam	9	-
CONDENSATE DRAIN	Everywhere	Polyethylene	-	-	-
SEWAGE	Everywhere except level -1	Polyethylene	-	-	-
SEWAGE	Level -1	Grey cast iron	-	-	-
SEWAGE VENTILATION	Everywhere	Polyethylene	-	-	-
POOL	Everywhere	Stainless steel AISI304	-	-	-
POOL	Central Plant	Stainless steel AISI304	Flexible elastomeric foam	13	Aluminum sheet
FIRE	Non-heated area	Painted black steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
FIRE	Heated area	Painted black steel	-	-	-
PRESSURE FILTER	Everywhere	Calcium silicate insulated	-	-	-



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
 MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
 MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: F&M favorobitran inženjerska

MEP DESIGN: Manens-Tips

ARCHITECTURAL DESIGN: MC A

LOCAL SUPPORT: DFS Engineering

Designer: studio SYNTHESIS architecture & design

Discipline - STRUCTURE: FRAME Project G.S.D.

Discipline - WATER AND SEWAGE: HIDROFOKUS

Discipline - ELECTRICAL WIRING / High voltage: SIENERSYS

Discipline - ELECTRICAL WIRING / Low voltage: slimes

Discipline - MECHANICAL SERVICES: NOVA ENERGIJA

Discipline - FIRE PROTECTION: PREVENIS

Building and location: Business building - building of the Government of Montenegro ENERGY EFFICIENT BUILDING Urban plot 9 DUP "Univerzitetski centar" - amendments Podgorica, Montenegro

ISSUE: MAIN DESIGN WATER DRAWINGS AND REPORT

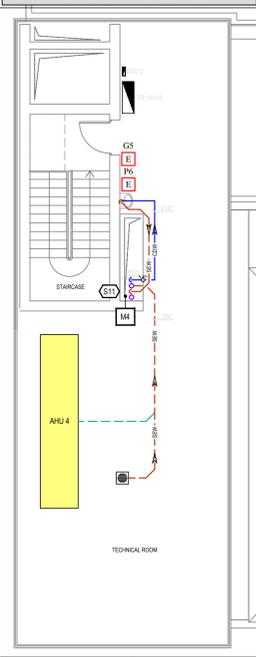
TITLE: PUBLIC HEALTH SANITARY LAYOUT LEVEL 2

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
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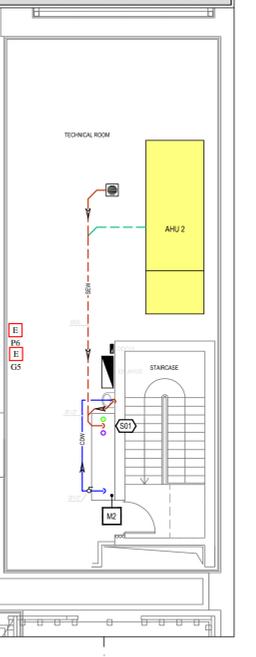
ISSUE NR. **le_205**

DATE: 30/11/2010 SCALE: 1:100 FILE: 928_le_205.dwg
 UN: 928 DRAW: G. A. APPROVED: R. M.

DETAIL TECHNICAL ROOM



DETAIL TECHNICAL ROOM

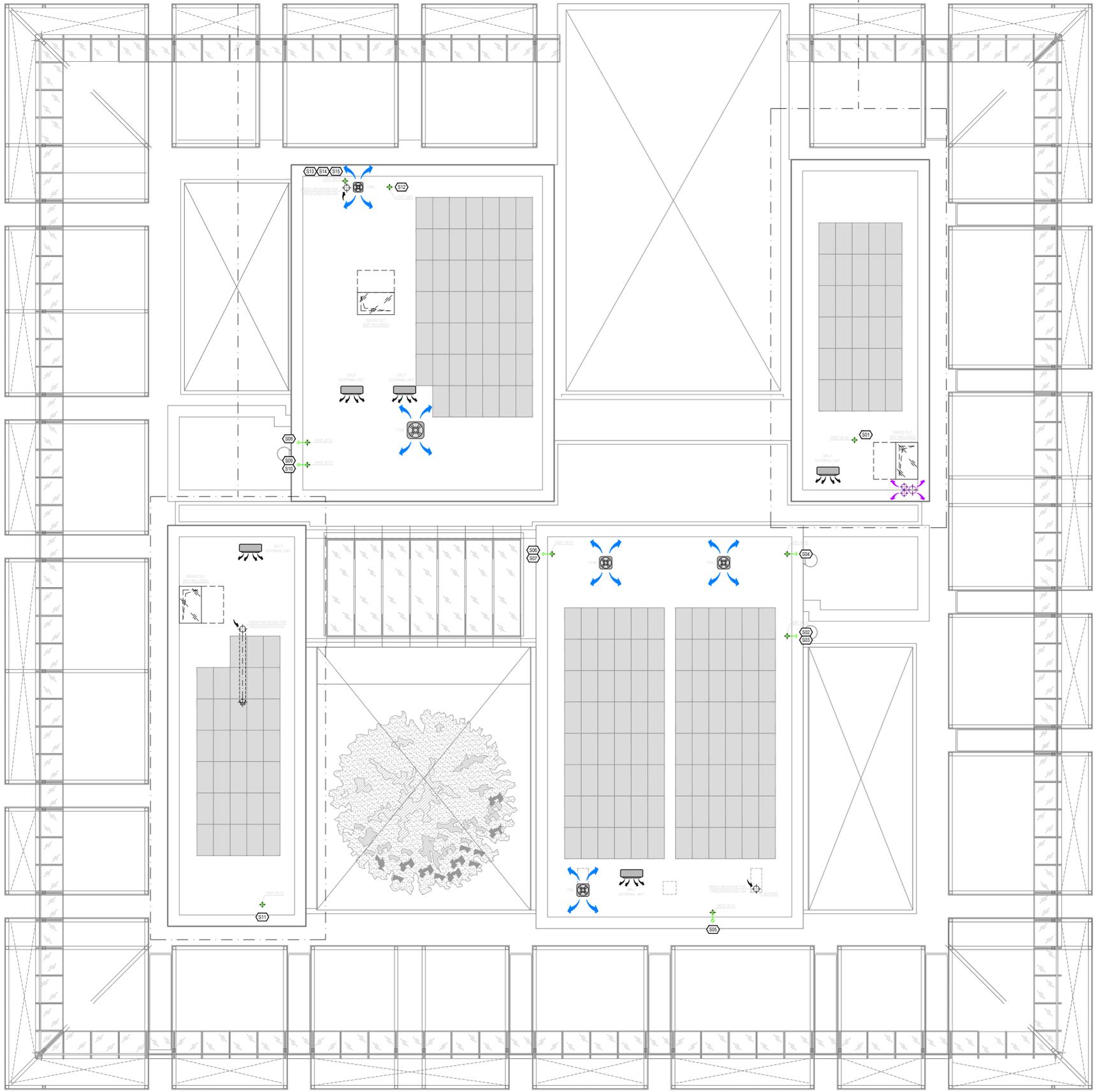


LEGEND

Mx	MECHANICAL SHAFT	WP	WATER POOL
Sx	COLUMN SEWAGE NUMBERS	CDW	COLD DOMESTIC WATER
FH	FIRE HOSE	HDW	HOT DOMESTIC WATER
P6 E	PORTABLE POWDER EXTINGUISHER (KG)	RDW	RECIRCULATING HOT DOMESTIC WATER
C5 E	PORTABLE EXTINGUISHER CARBON DIOXIDE (KG)	FW	PIPE FIRE
FD	FLOOR DRAIN	SEW	CEILING SEWAGE PIPE
BV	BUTTERFLY VALVE	SEW	UNDER SLAB SEWAGE PIPE
SV	BALL VALVE	VENT	VENTILATION PIPE
WM	WATER METER	CD	CONDENSATE DRAIN

PIPE INSULATIONS

CIRCUIT	LOCATION	MATERIAL	INSULATION	INSULATION THICKNESS	EXTERNAL COVER WHEN EXPOSED
COLD DOMESTIC WATER	Underground	PvHD	-	-	-
COLD DOMESTIC WATER	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
COLD DOMESTIC WATER	Heated area if the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
COLD DOMESTIC WATER	From the manifolds to the plumbing fixtures	PvK-Al-PvHD	Flexible elastomeric foam	9	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Heated area if the manifolds	Galvanized steel	Flexible elastomeric foam	13	-
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	From the manifolds to the plumbing fixtures	PvK-Al-PvHD	Flexible elastomeric foam	9	-
CONDENSATE DRAIN	Everywhere	Polyethylene	-	-	-
SEWAGE	Everywhere except level -1	Polyethylene	-	-	-
SEWAGE	Level -1	Grey cast iron	-	-	-
SEWAGE VENTILATION	Everywhere	Polyethylene	-	-	-
POOL	Everywhere	Stainless steel AISI304	-	-	-
POOL	Central Plant	Stainless steel AISI304	Flexible elastomeric foam	13	Aluminum sheet
FIRE	Non-heated area	Painted black steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
FIRE	Heated area	Painted black steel	-	-	-
PRESSURE FILTER	Everywhere	Calcium silicate insulated	-	-	-



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
 MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
 MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDINE OF THE REPUBLIC OF MONTENEGRO

PROJECT MANAGEMENT AND STRUCTURAL DESIGN: F&M favorobitran ingegneria

MEP DESIGN: Manens-Tips

ARCHITECTURAL DESIGN: MC A

LOCAL SUPPORT: DFS Engineering

DESIGNER: studio SYNTHESIS architecture & design

DISCIPLINE - STRUCTURE: FRAME PROJECT G.S.D.

DISCIPLINE - WATER AND SEWAGE: HIDROFOKUS

DISCIPLINE - ELECTRICAL WIRING / High voltage: SIENERSYS

DISCIPLINE - ELECTRICAL WIRING / Low voltage: slimes

DISCIPLINE - MECHANICAL SERVICES: NOVA ENERGIA

DISCIPLINE - FIRE PROTECTION: PREVENIS

Building and location: Business building - building of the Government of Montenegro ENERGY EFFICIENT BUILDING Urban plot 9 DUP "Univerzitetski centar" - amendments Podgorica, Montenegro

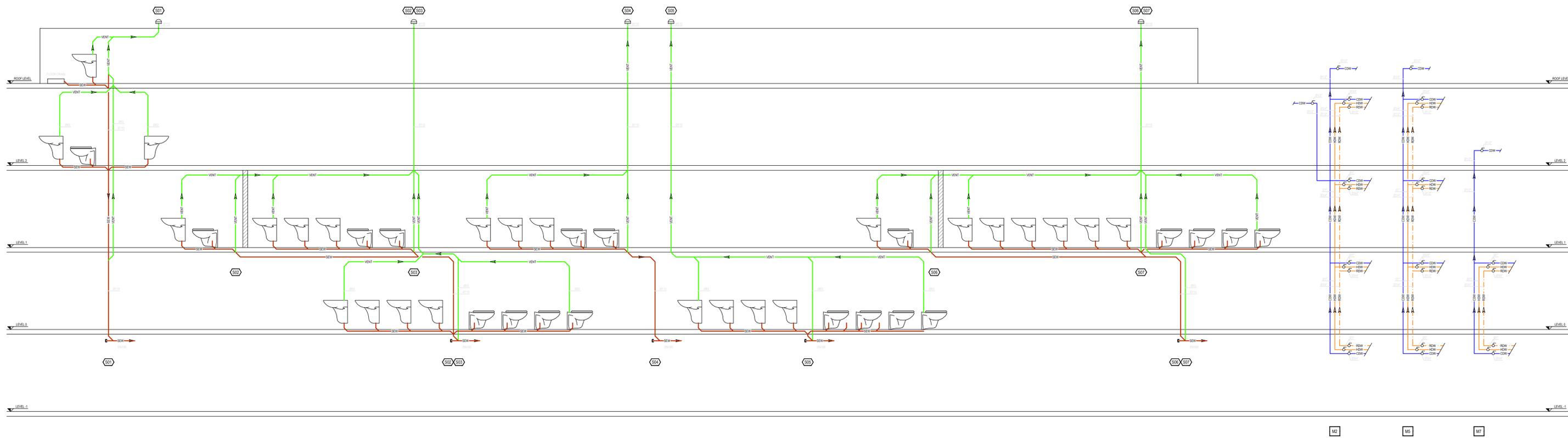
ISSUE: MAIN DESIGNER WATER DRAWINGS AND REPORT

TITLE: PUBLIC HEALTH SANITARY LAYOUT ROOF LEVEL

REV.	DATE	FILE	SUBJECT	DRAW	APPR.
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b					
c					
d					

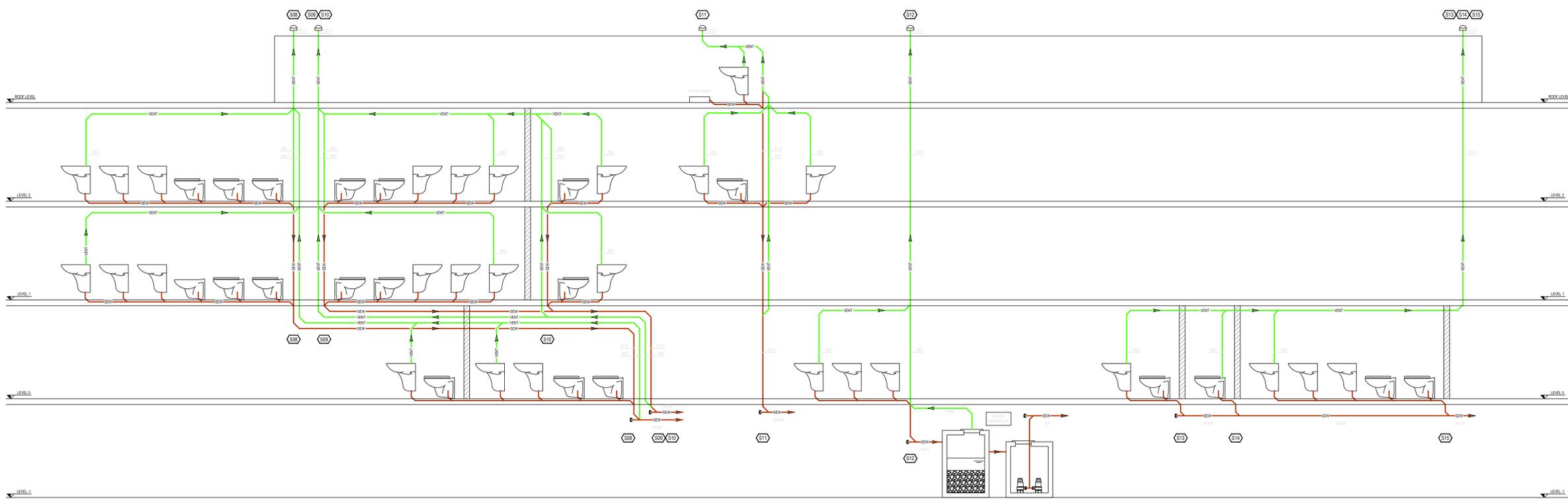
ISSUE NR. **le_206**

DATE: 30/11/2010 SCALE: 1:100 FILE: 508_la_206.dwg
 DWR: G. A. APPROVED: R. M.



LEGEND			
5	BALL VALVE	M	MECHANICAL SHAFT
	BATHROOM SINKS	CS	COLUMN SEWAGE NUMBERS
	BIDET	SEW	SEWAGE PIPE
	WATER CLOSETS	VENT	VENTILATION PIPE
		CDW	COLD DOMESTIC WATER
		HDW	HOT DOMESTIC WATER
		RDW	RECIRCULATING HOT DOMESTIC WATER

PIPE INSULATIONS					
CIRCUIT	LOCATION	MATERIAL	INSULATION	INSULATION THICKNESS	EXTERNAL COVER WHEN EXPOSED
SEWAGE	Everywhere except level -1	Polystyrene	-	-	-
SEWAGE	Level -1	Gray cast iron	-	-	-
SEWAGE VENTILATION	Everywhere	Polystyrene	-	-	-
COLD DOMESTIC WATER	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet and wrap-on heating cable
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Non-heated area	Galvanized steel	Flexible elastomeric foam	30	Aluminum sheet
HOT DOMESTIC WATER (RECIRCULATING INCLUDED)	Heated area till the manifolds	Galvanized steel	Flexible elastomeric foam	13	-



INVESTOR: JOINT PROJECT ON ENVIRONMENT AND ENERGY BETWEEN ITALY AND MONTENEGRO
 MINISTRY OF THE ENVIRONMENT, LAND AND SEA OF THE REPUBLIC OF ITALY
 MINISTARSTVO TURIZMA I ZAŠTITE ŽIVOTNE SREDEINE

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 e-mail: mc@mcproject.it

MEP DESIGN: **Manens-Tifs**
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 www.manens-tifs.it e-mail: info@manens-tifs.it

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 e-mail: mc@mcproject.it

LOCAL SUPPORT: **DFS Engineering**
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 Tel. +382 20 228 561
 e-mail: info@dfs-engineering.com

Discipline - STRUCTURE: **PROJEKAT ZA PROMETNU IZOBILJEŽAVANJE**
 Projekt d.o.o.

Discipline - WATER AND SEWAGE: **HIDROFOKUS**
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 81000 Podgorica, Crna Gora
 Tel. +382 20 228 561
 e-mail: info@hidrofokus.com

Discipline - ELECTRICAL WIRING / High voltage: **SIENERSYS**
 Il Trgovački trg
 81000 Podgorica
 Tel. +382 20 228 561
 Fax: +382 20 228 081
 E-mail: info@sienersys.com

Discipline - ELECTRICAL WIRING / low voltage: **SIENERSYS**
 Bul. Odrasla Vaskršnja 1
 81000 Podgorica, Crna Gora
 Tel. +382 20 228 561
 Fax: +382 20 228 081
 E-mail: info@sienersys.com

Discipline - MECHANICAL SERVICES: **NOVA ENERGIJA**
 Ulica Dr. Vukobratovića 11
 81000 Podgorica, Crna Gora
 Tel. +382 20 228 561
 Fax: +382 20 228 081
 E-mail: info@novaenergija.com

Discipline - FIRE PROTECTION: **PREVENIS**
 Ulica Dr. Vukobratovića 11
 81000 Podgorica, Crna Gora
 Tel. +382 20 228 561
 Fax: +382 20 228 081
 E-mail: info@prevenis.com

Building and location:
Business building - building of the Government of Montenegro
ENERGY EFFICIENT BUILDING
 Urban plot 9
 DUP "Univerzitetski centar" - amendments
 Podgorica, Montenegro

ISSUE: **MAIN DESIGN** WATER DRAWINGS AND REPORT

TITLE: PUBLIC HEALTH SANITARY ALTIMETRIC

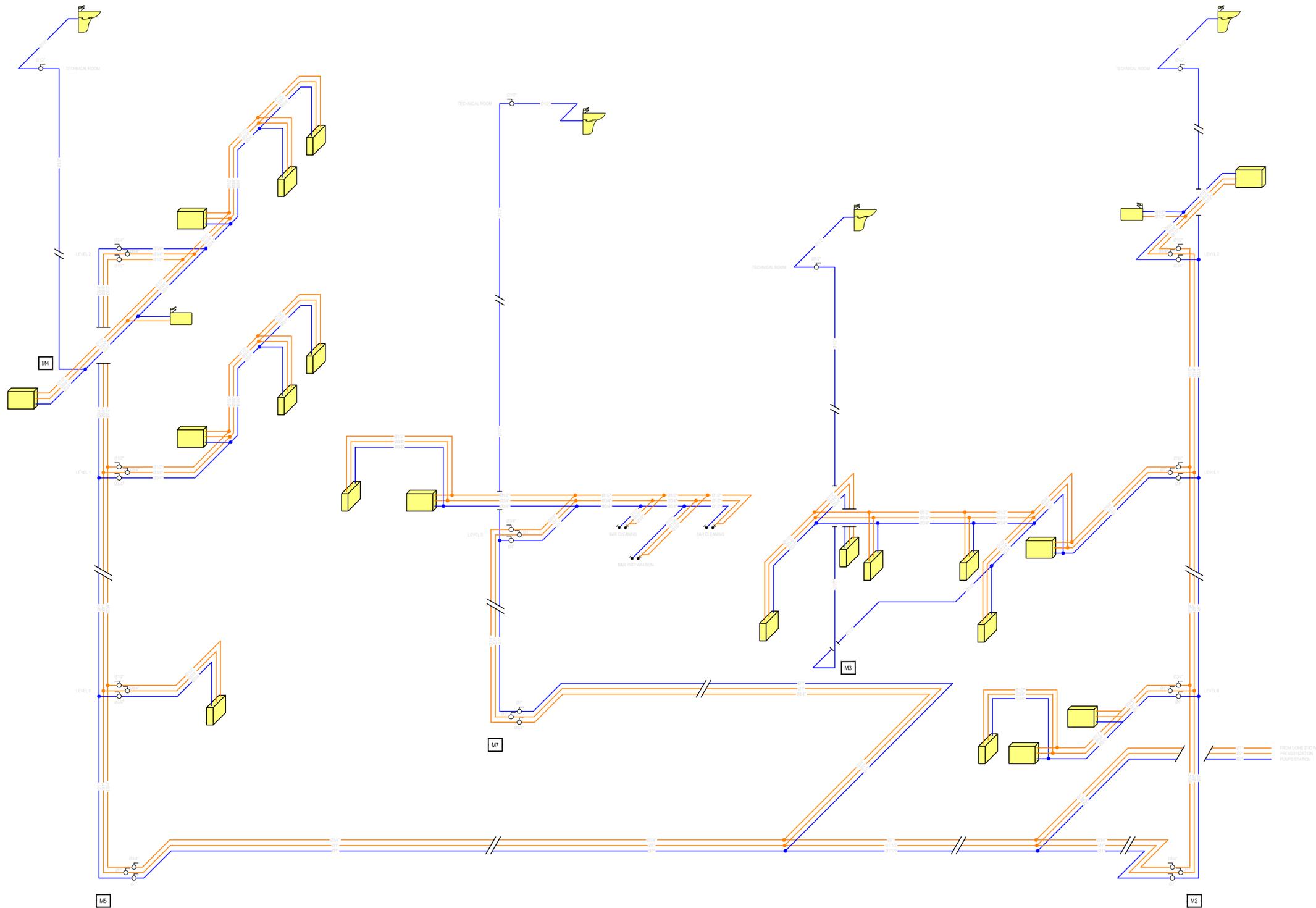
REV.	DATE	FILE	SUBJECT	DRAW	APPR.
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ISSUE NR. **le_207**

DATE	SCALE	FILE
30/11/2010	-	926_le_207.dwg

J/N	DRAW	APPROVED
926	G. A.	R. M.

LEGEND			
	BALL VALVE		MECHANICAL SHAFT
	BASIN		COLD DOMESTIC WATER
	MANIFOLD		HOT DOMESTIC WATER
	SINK		RECIRCULATING HOT DOMESTIC WATER



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