



SITE SURVEY REPORT Ericsson

1. GENERAL INFORMATION

Site name:	Brad
Site number (code):	TM187
Site address (city;street;no.; building; entrance):	Aleea Postei Bl.10 sc.2, Brad, Jud.Hunedoara
Site area:	Hunedoara
Site survey team:	Popa Ionel
Checked by:	Monica Cimpoieru
Date of site survey:	23.03.2017
Type of Site (urban, rooftop):	Roftoop
Lesser:	
Contact Person:	

Other Remarks:	
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2. ROOFTOP (Building information)

GPS coordinates:	
Building height:	26.0m
Total height:	30.0m
Use of crane for materials transportation:	n/a

Other Remarks:	
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3. GREEN FIELD (Specific data information)

GPS coordinates:	
Tower:	Yes ☐ NO ☒
Tower type:	☐ Heavy tower – 30m (or more) ☐ Polygonal Monopole – 30m (or more) ☐ Monopole lattice tower-30m ☐ Guyed tower - 20m
Antenna Metallic Structure:	New "H" Yes ☐ NO ☒ Upgrade existing "H" Yes ☐ NO ☒ Atypical Structure Yes ☐ NO ☒
RRU Metallic Structure:	New RRU Support Yes ☐ NO ☒ Atypical Structure Yes ☐ NO ☒
Mini - shelter require:	Yes ☐ NO ☒
Mini – shelter frame standard adaptor solution:	Yes ☐ NO ☒
In case Non Standard Mini-shelter frame solution, dimensions are requested:	 mm x mm x mm
Non standard mini - shelter frame profile	Picture to add in the bottom
RRU to Antenna/Combiner Jumper length (type: DIN7/16 Male –N Male):	
Antenna to Combiner -> Jumper length (type: DIN7/16 Male – DIN7/16 Male):	
FO cable length between BB to RRU	6x30m



DC cable length between PP to RRU	6x30m
Type and length of DC power for RRU Cu 2x6 mm ² (L<30m):	Type 2x6mmp/ 6x30m
Type and length of DC power for RRU Cu 2X10 mm ² if needed(30m<L<60m):	Type / m
Type and length of DC power for RRU Cu 2X16 mm ² if needed(60m<L<90m):	Type / m
Type and length of DC power for RRU Cu 2X25 mm ² if needed(L>90m):	Type / m
Combo Box required:	Yes ☐ NO ☒ ; Length of cable:
Connection patch length from CB to RRU (FO&DC)	
Outdoor CB existing breakers type	16A ☐ 25A ☐ Oth. ☐ ...A spec
PDU existing breakers availability (63A in PP)	Yes ☐ NO ☒
DC cable length from PP to new PDU	
PP Type / producer plus picture on the bottom	

4. EXISTING CONTRACT & CHANGES

Indoor space requires contract change	Yes ☐	No ☒	
Outdoor space requires contract change	Yes ☐	No ☒	
Cable routing requires contract change	Yes ☐	No ☒	
Power cabling requires contract change	Yes ☐	No ☒	
Indoor space requires studies & license change	Yes ☐	No ☒	
Outdoor space requires studies & license change	Yes ☐	No ☒	
Cable routing requires studies & license change	Yes ☐	No ☒	
Power cabling requires studies & license change	Yes ☐	No ☒	

Other Remarks:	
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5. POWER SUPPLY INFORMATION

Power availability:	Yes
Voltage-measurements (PLC display):	L1(V) L2(V) L3(V)
Amperage-measurements (PLC display, without A/C):	I1(A) I2(A) I3(A)
Amperage-measurements (PLC display, with A/C):	I1(A) I2(A) I3(A)
Outdoor mini shelter: 32A available breaker in LDB (5x6 mm ² AC Cable)	N/A
1X16A available breakers in indoor Power System	N/A
1X25A available breakers in indoor Power System	N/A
1X63A available breakers in indoor Power System	N/A
Power counter exist:	N/A
Main AC board exist:	NO
Breaker value in BMPT:	32A
Surge arrestors existence:	Yes
Type and length of power connection cable for BBU	Cu 2x6mmp – 2m
Type and length of power connection shielded cable Al 6X25 mm ² if needed:	-
Type and length of power connection shielded cable Al 6X35 mm ² if needed:	-
Type and length of AC power connection cable 5X6 mm ² for mini shelter if needed:	-
Type and length of DC power from PSU to PDU Al 2x35 mm ² if needed:	-
CB/PDU/2 Sections (if needed):	-
CB/PDU/3 Sections (if needed):	-
PDU indoor (if needed):	No
Boards grounding - secured:	No
Boards waterproofed:	No



Other Remarks:	- Din rack-ul actual se va demonta echipamentul ZXSDR-B8200 si se vor instala 1xRBS6601GWL, 1xBB5216; - Echipamentele si cablurile noi se vor lega la instalatia de impamantare existenta;
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6. POWER PLANT and BATTERY INFORMATION

Number of units	☒	Unit 2 ☐
Type	300A ☐ ☐ 600A ☐ Other ☐	300A ☐ ☐ 600A ☐ Other ☐
Nr./capacity[A] of rectifier modules	4x50A	
DC Load Amperage(displayed) [A]	50A	
Battery capacity [Ah]	155Ah	
Battery type/number	12FFT160 / 8buc	

Other Remarks:	
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7. AIR CONDITIONING INFORMATION

Temperature [°C]	Internal:	External:
Number of units	Unit 1 ☒	Unit 2 ☐
Type	Free Cooling ☐ Duct ☒ Split ☐	Free Cooling ☐ Duct ☐ Split ☐
Technical specifications from external unit label		
Cooling capacity [BTU]	9.000 ☐ 12.000 ☐ 18.000 ☐ 24.000 ☐ Other ☒	9.000 ☐ 12.000 ☐ 18.000 ☐ 24.000 ☐ Other ☐
Start meter	Compressor: Evap. Fan: Heather:	Compressor: Evap. Fan: Heather:
Work time meter [h]	Compressor: Evap. Fan: Heather:	Compressor: Evap. Fan: Heather:
Alarms outputs	Very high temp ☐ Very low temp ☐	Very high temp ☐ Very low temp ☐

Other Remarks:	
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8. NEW INSTALLATION INFORMATION

Common: number of buss with free holes	Yes
Common: Available space on the existing cable tray	Yes
Indoor equipment: Existing space for ILP mounting	N/A
Indoor equipment: Existing space for Radio Indoor equipment mounting	Yes
Indoor equipment: Existing space for Indoor Concentrator equipment mounting	N/A
Indoor equipment: Existing space for DC PDU mounting	N/A



Indoor equipment: Available holes in FIMO	Yes
Outdoor equipment: Existing space on the existing base frame for mini shelter mounting	N/A
Outdoor equipment: Existing outdoor transmission cabinet	N/A
Outdoor equipment: Existing space for outdoor Concentrator mounting (proposal)	N/A
Outdoor equipment: Existing space for RRU mounting (proposal)	Yes

Other Remarks:	- Antenele tip 80010692 se pastreaza; - Se vor demonta echipamentele RRU existente montate pe suportii in spatele antenelor si echipamentele RRU existente montate la sol pe suportii RT6 existenti; - Se vor instala RRU-uri noi in locul celor care se demonteaza: 4xR2219-B8 (GSM900)+ 4xRRU 2219-B3(1800), 4xRRU 2219-B1 (UMTS2100); - Echipamentele RRU se alimenteaza din PDU existente in rack in shelter
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9. EXISTING TELECOM EQUIPMENT & INFRASTRUCTURE

a. General information

Equipment type:	Indoor ☒	Outdoor ☐	
Number of RF antennas:	3x80010692		
Number of MW links	2 x 0.3m		
Nr. of existing RBS cabinets	ZXS-B8200;		
MW existing RL cabinet	Indoor ☒	Outdoor ☐	
Power cabinet exist (BBS):	Yes ☒	No ☐	
Existing cable ladder availability:	Yes ☒	No ☐	
Existing cable entry availability:	Yes ☒	No ☐	
Air condition existence & operation	Yes ☒	No ☐	
Grounding protection existence:	Yes ☒	No ☐	
Lightning protection existence:	Yes ☒	No ☐	
Installation of RF & IF cables requires special machinery (e.g. crane)	Yes ☐	No ☒	

b. Existing Masts

	Height	Length	poles/mast	Cell_id on the mast	installation readiness
1	40.0m	6.0m	1	U/A/K; V/B/L; W/C/M Z/D/N	
2					
3					

c. Existing Antenna Poles

	Height	Length	Cell_id	Corner/Tower	Obstacles	installation readiness
1	29.00m	3m	U/A/K		No	
2	29.00m	3m	V/B/L		No	
3	29.00m	3m	W/C/M		No	
4	29.00m	3m	Z/D/N		No	

d. Existing MW Poles

	Height	Length	Hop id	Corner/Tower	Far end	Obstacles	installation readiness
1							
2							
3							
Remarks:							

10. ANALYSIS LOADING DATA

LOAD TYPE	DIAMETER (mm)	POSITION (m)	NUMBER
MW LINK	300	28.50m	1



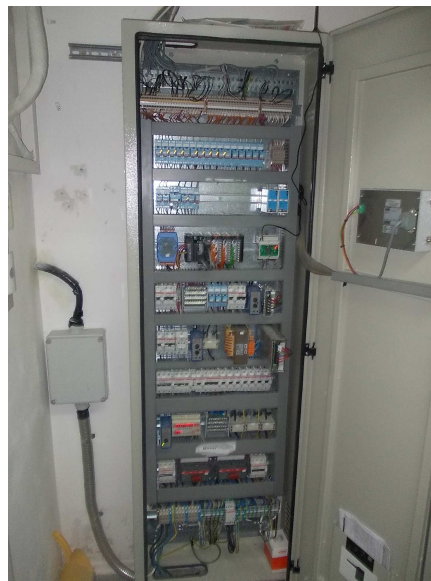
MW LINK	300	28.50m	1
MW LINK			
MW LINK			
MW LINK			
MW LINK			

11. EXISTING LAYOUT(S): Pictures





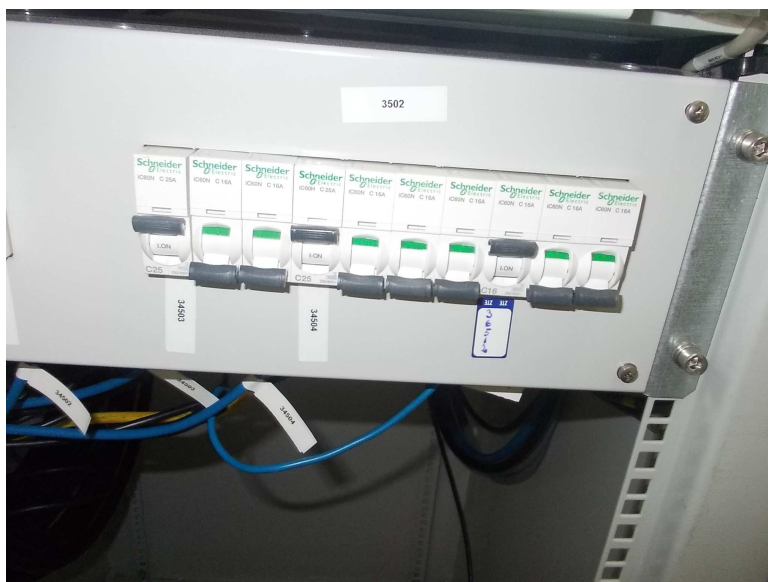
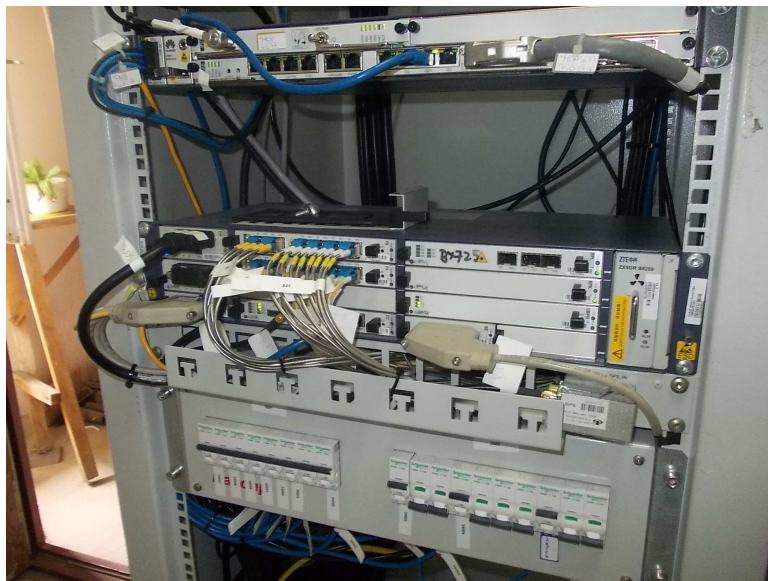
Modernization Telekom Mobile







Modernization Telekom Mobile

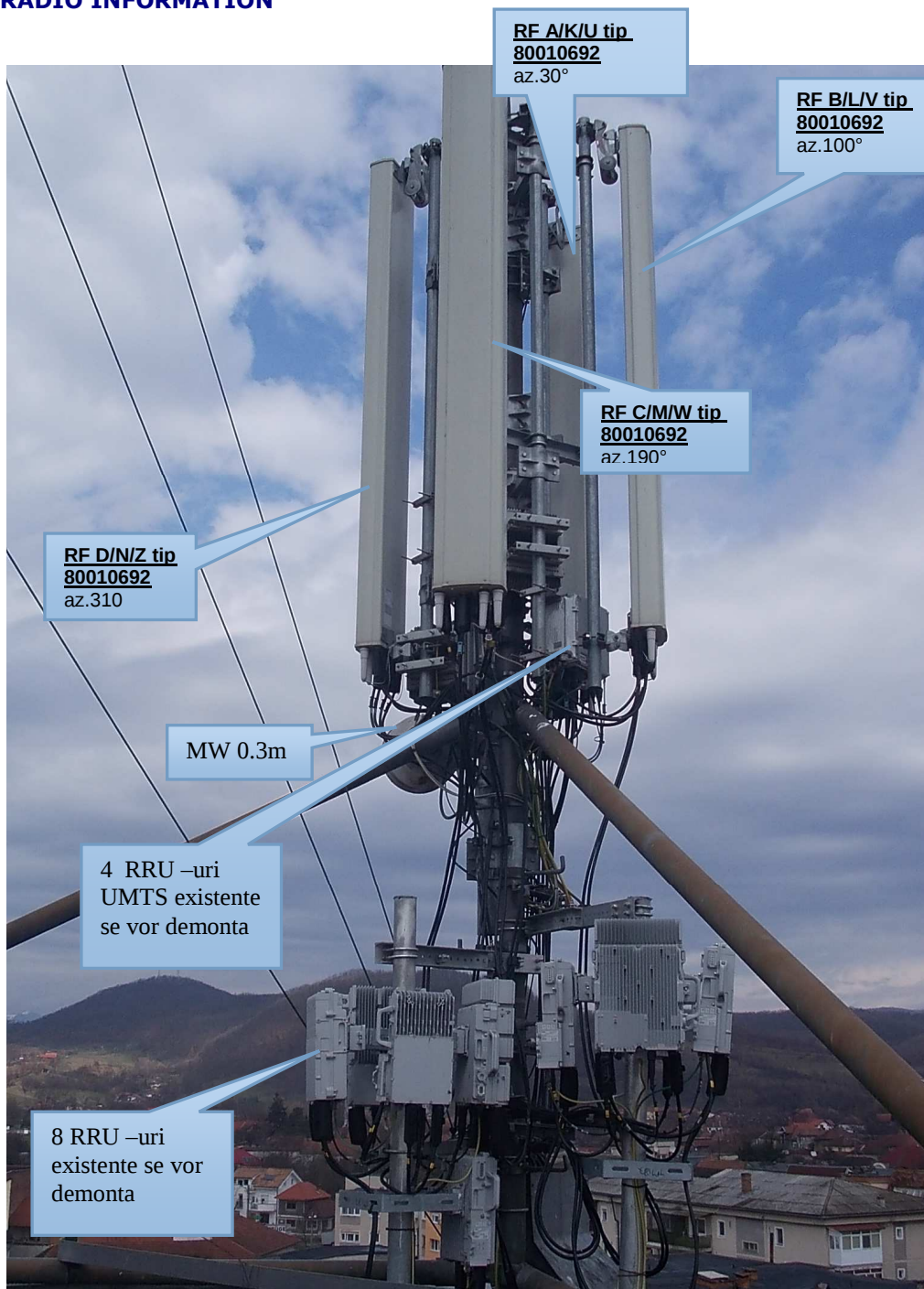




Echipamente existente

GENERAL VIEW OF STRUCTURE

RADIO INFORMATION





12. PROPOSED INFRASTRUCTURE & EQUIPMENT SOLUTION

a. Indoor cabinets

Dimensions of existing room:	2.82m x 1.76m
Space availability for indoor equipment:	yes
Expansion of existing equipment room:	N/A
Shelter needed:	N/A
Shelter concrete base needed:	N/A
Space availability for new shelter positioning:	N/A
AC power extension/change:	No
Main grounding bus bar existence:	Yes
Water proofing of the room needs restoration:	No
Internal Lighting restoration:	No
Wall painting needed:	No
Antistatic floor addition:	No
Fire alarm system expansion:	No
Air Conditioning (A/C) expansion/replacement:	No
Nr./capacity[A] of rectifier modules	4 buc/ 50A
Security Lights board:	No
Plastic trays for cables expansion :	N/A
Internal ladder for the feeders availability:	N/A
Cable entry expansion:	N/A
Other Remarks:	

b. Outdoor cabinets

New metal base needed:	N/A
Dimensions of new metal base:	N/A
Secure of metal base on floor:	N/A
Grounding of base/Earthing for equipments:	N/A
AC power supply availability:	N/A
Needed properly holes on base:	N/A
Clearances around cabinets:	N/A
Other Remarks:	

c. Proposed New Masts

	Height	Length	poles/mast	Cell_id on the mast	Position
1					
2					
3					

d. New Antenna Poles

	Height	Length	Cell_id	Corner/Tower	Obstacles	installation readiness
1						
2						
3						

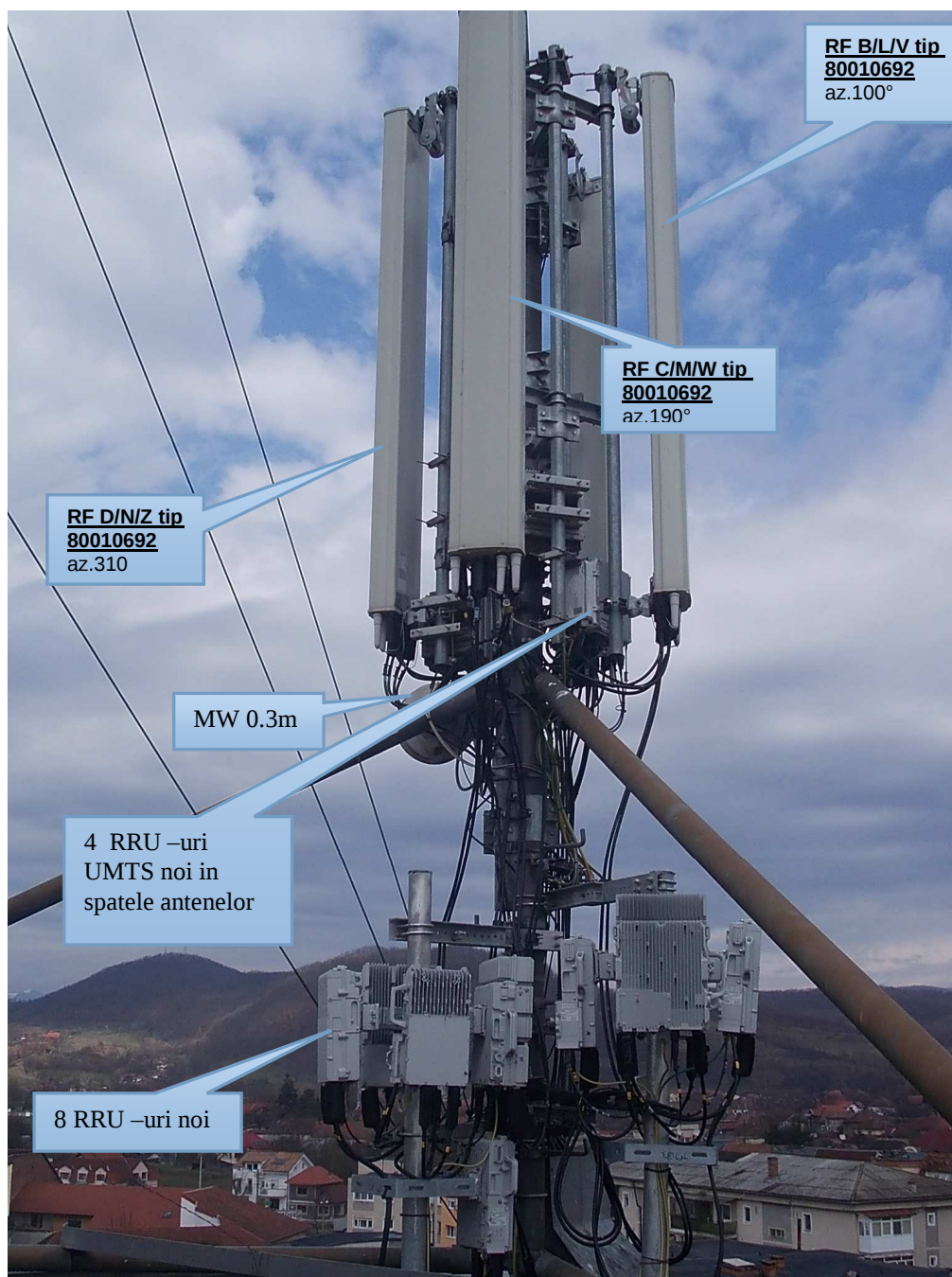
e. New MW Poles

	Height	Length	Hop id	Corner/Tower	Far end	Obstacles	installation readiness
1							
2							
3							

Proposed corrective works:	Pe turn: - Antenele tip 80010692 se pastreaza; - Se vor demonta echipamentele RRU existente montate pe suportii in spatele antenelor si echipamentele RRU existente montate la sol pe suportii RT6 existenti; - Se vor instala RRU-uri noi in locul celor care se demonteaza: 4xR2219-B8
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- (GSM900)+ 4xRRU 2219-B3(1800), 4xRRU 2219-B1 (UMTS2100);
- Echipamentele RRU se alimenteaza din PDU existente in rack in shelter
- La sol:
- Din rack-ul actual se va demonta echipamentul ZXSDR-B8200 si se vor instala 1xRBS6601GWL, 1xBB5216;
 - Echipamentele si cablurile noi se vor lega la instalatia de impamantare existenta

13. PROPOSED SOLUTION LAYOUT(S): PICTURES AND





Se va demonta:
- ZXSDR-B8200

Se vor instala:
- RBS6601
- SAU

