ASIAN ILC BASIS OF COST

LIST OF DRAWINGS

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8	e- Underground Structures - Plan SHT. - 02	U - 02
9	e- Underground Structures - Plan SHT. - 03	U - 03
10	e- Underground Structures - Plan SHT. - 04	U - 04
11	e- Underground Structures - Plan SHT. - 05	U - 05
12	e- Underground Structures - Plan SHT. - 06	U - 06
13	e- Underground Structures - Plan SHT. - 07	U - 07
14	e- Underground Structures - Plan SHT. - 08	U - 08
15	e- Underground Structures - Plan SHT. - 09	U - 09
16	e- Underground Structures - Plan SHT. - 10	U - 10
17	e- Underground Structures - Plan IR	U - 11
18	e+ Underground Structures - Plan IR	U - 12
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20	e+ Underground Structures - Plan SHT. - 02	U - 14
21	e+ Underground Structures - Plan SHT. - 03	U - 15
22	e+ Underground Structures - Plan SHT. - 04	U - 16
23	e+ Underground Structures - Plan SHT. - 05	U - 17
24	e+ Underground Structures - Plan SHT. - 06	U - 18
25	e+ Underground Structures - Plan SHT. - 07	U - 19
26	e+ Underground Structures - Plan SHT. - 08	U - 20
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29	e- Underground Structures - Sections SHT. - 03	U - 23
30	e- Underground Structures - Sections SHT. - 04	U - 24
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32	e+ Underground Structures - Sections SHT. - 01	U - 26
33	e+ Underground Structures - Sections SHT. - 02	U - 27
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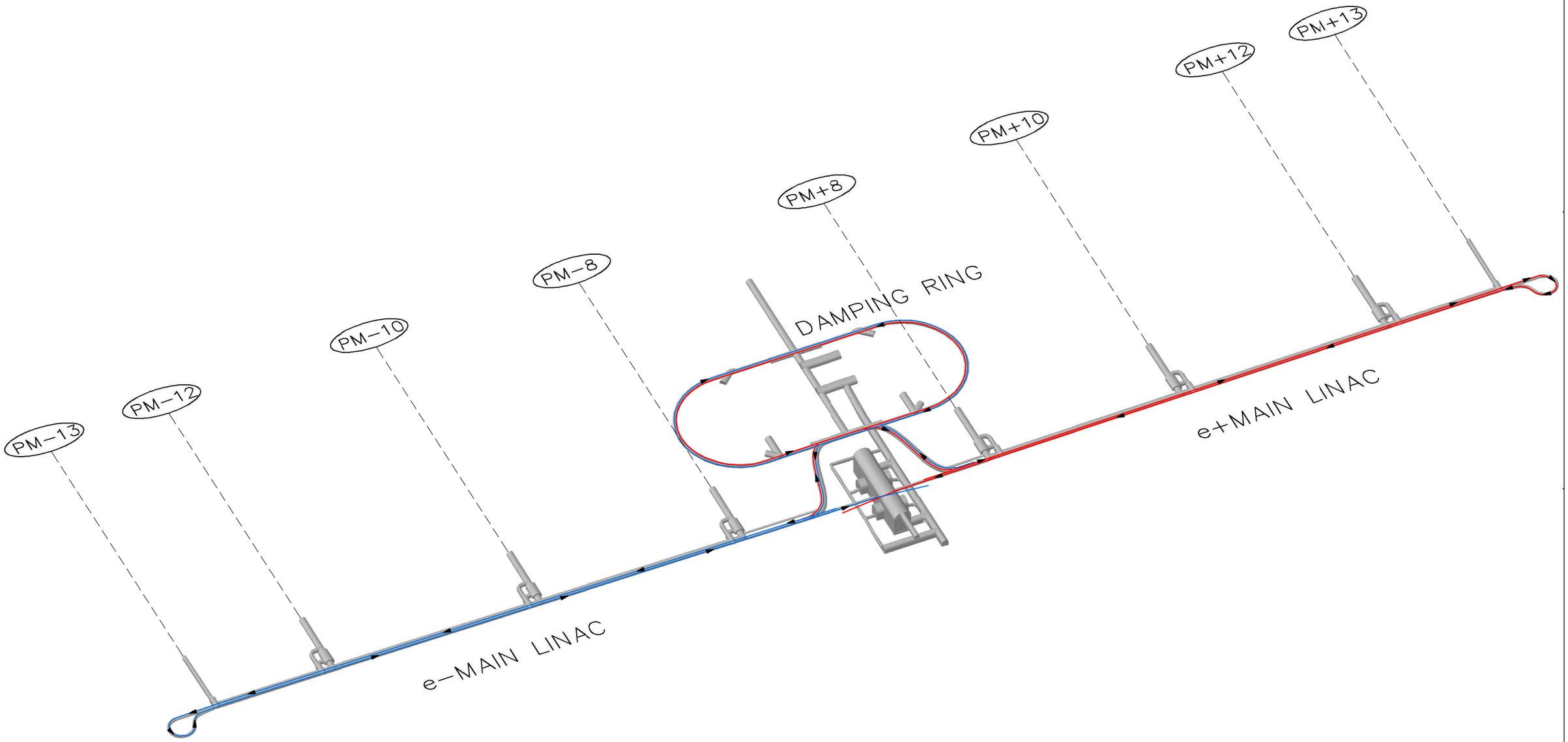
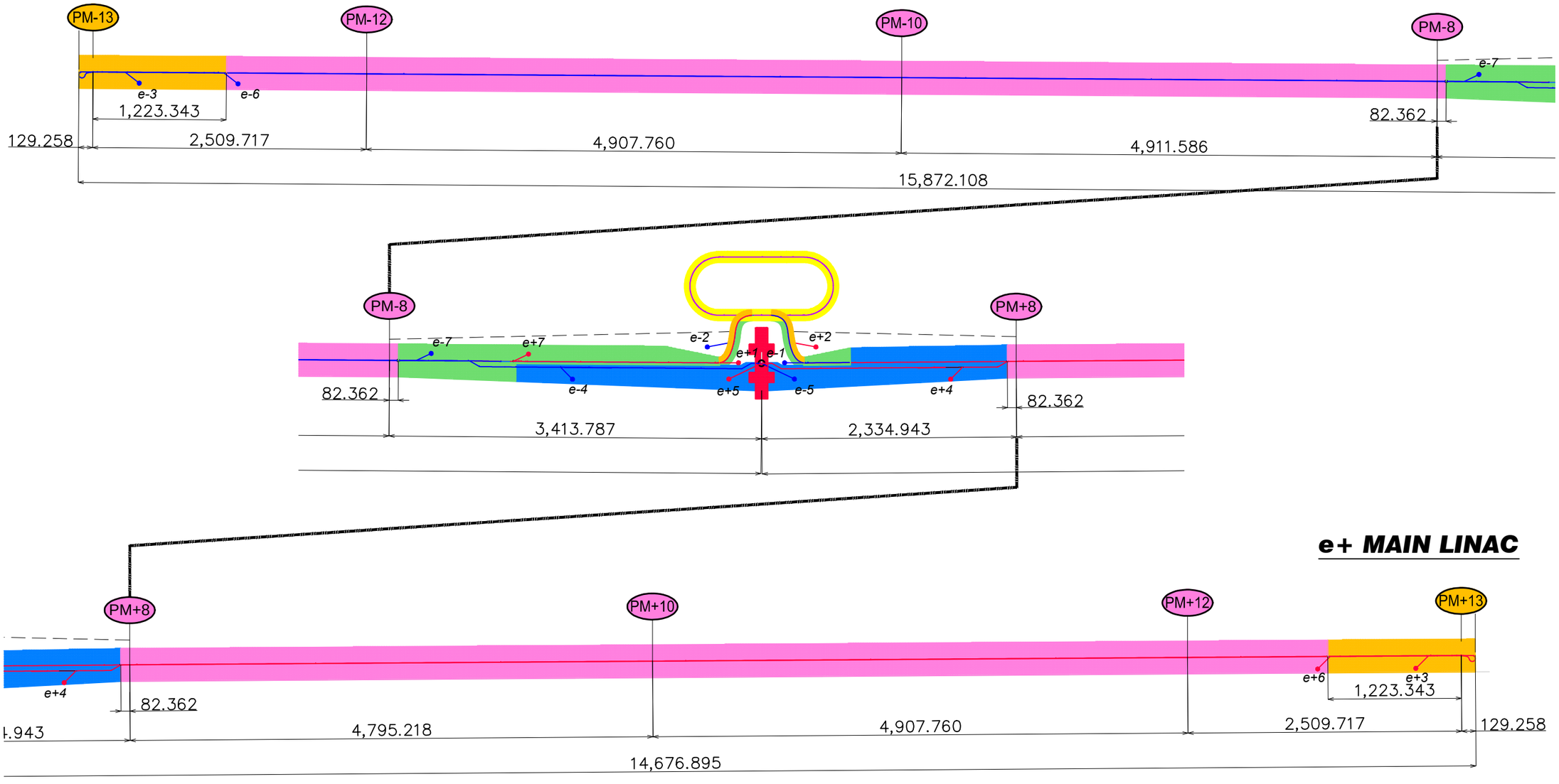


ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **ISOMETRIC KEY PLAN**	KEK	**DRAWING NO.** **G - 01**	**REVISION**
				SCALE	**DATE 30 Nov. 2012**

e- MAIN LINAC



e+ MAIN LINAC

ACCESS TUNNELS AND CAVERNS

NAME	PM-13	PM-12	PM-10	PM-8	IR HALL	D.R.	PM+8	PM+10	PM+12	PM-13
ACCESS T (W x H)m	8 x 7.5	8 x 7.5	8 x 7.5	8 x 7.5	8 x 7.5 11 x 11 11 x 9	8 x 7.5 11 x 9	8 x 7.5	8 x 7.5	8 x 7.5	8 x 7.5
CAVERN (W x L x H)m	15 x 41.3 x 15	20 x 180 x 13 15 x 41.3 x 15	20 x 180 x 13 15 x 41.3 x 15	20 x 180 x 13 15 x 41.3 x 15	25 x 142 x 41	10 x 68 x 8 10 x 40 x 8 13 x 50.3 x 12	20 x 180 x 13 15 x 41.3 x 15	20 x 180 x 13 15 x 41.3 x 15	20 x 180 x 13 15 x 41.3 x 15	15 x 41.3 x 15

DUMPS

MPD	e-1	SC TUNE UP DUMP	811 KW**
MPD	e-2	EDRX TUNE UP DUMP	220 KW
MPD	e-3	RTML TUNE UP DUMP	220 KW
HPD	e-4	BDS TUNE UP DUMP	14 MW
HPD	e-5	PRIMARY e-DUMP	14 MW*
MPD	e-6	RTML TUNE UP DUMP	220 KW
MPD	e-7	ELECTRON FAST ABORT DUMP	250 KW

MPD	e+1	SC TUNE UP DUMP	311 KW**
MPD	e+2	PDRX TUNE UP DUMP	220 KW
MPD	e+3	RTML TUNE UP DUMP	220 KW
HPD	e+4	BDS TUNE UP DUMP	14 MW
HPD	e+5	PRIMARY e+DUMP	14 MW*
MPD	e+6	RTML TUNE UP DUMP	220 KW
MPD	e+7	TARGET DUMP	200 KW*

TUNNELS WIDTH (M)

AREA SYSTEM	e- INJECT. BDS & SERVICE	DAMPING RING	MAIN LINAC BEAM	e SOURCE RTML, PLTR & ELTR	e+ INJECT. BDS & SERVICE
AMERICA-width M	4.5 SER. TUNNEL+ 4.5 x 4.5 W / WIDENED AREAS	5.5	5.0	4.5 SER. TUNNEL+ 4.5 x 4.5 W / WIDENED AREAS	4.5 SER. TUNNEL+ 5.0 W/ WIDENED AREAS
EUROPE-width M	-	-	-	-	-
ASIA-width x height M	8.0 x 5.0 BDS TUNNEL + 4.5 x 4.0 SER. TUNNEL	5.5 x 4.7 D.R. + 11.0 x 5.5 WIDENED AREA	11.0 x 5.5, 8.0 x 5.0 M.L.+ 4.5 x 4.0 SER. TUNNEL	11.0 x 5.5 RTML, PLTR & ELTR + 4.5 x 4.0 LOOP PART	8.0 x 5.0 BDS TUNNEL + 4.5 x 4.0 SER. TUNNEL

MUON WALL WIDENINGS

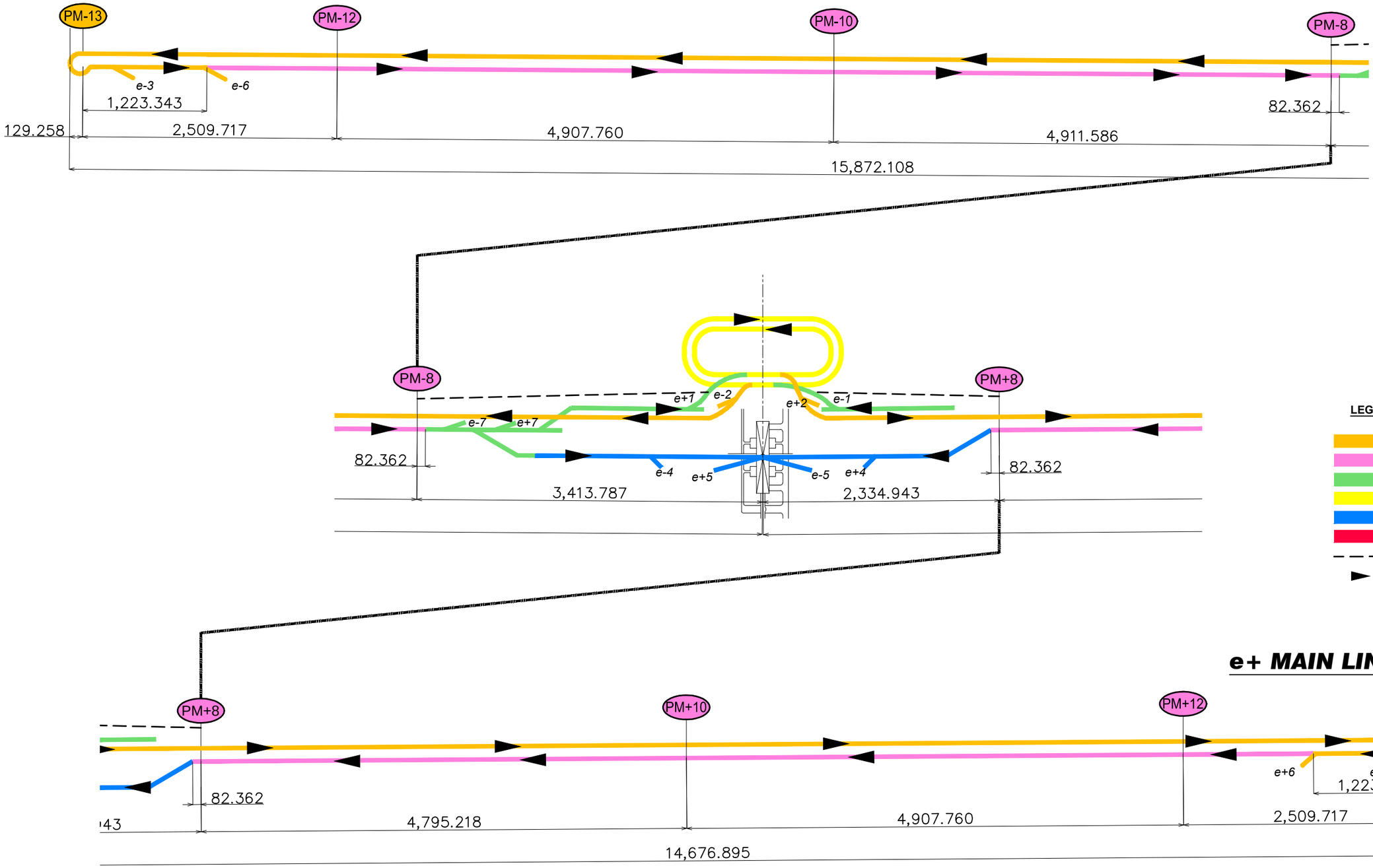
POINT	BDS
(L x W)m	(4) WITHIN TUNNEL

BEAM ABORT WIDENING ( )

POINT	SOURCES e-1, e+1, e-7 & e+7	RTML, PLTR & ELTR e-2, e-3, e-6, e+2, e+3 & e+6	BDS e+4, e-4, e+5 & e-5
(W x L)m	WITHIN TUNNEL	10 x 32	20 x 42

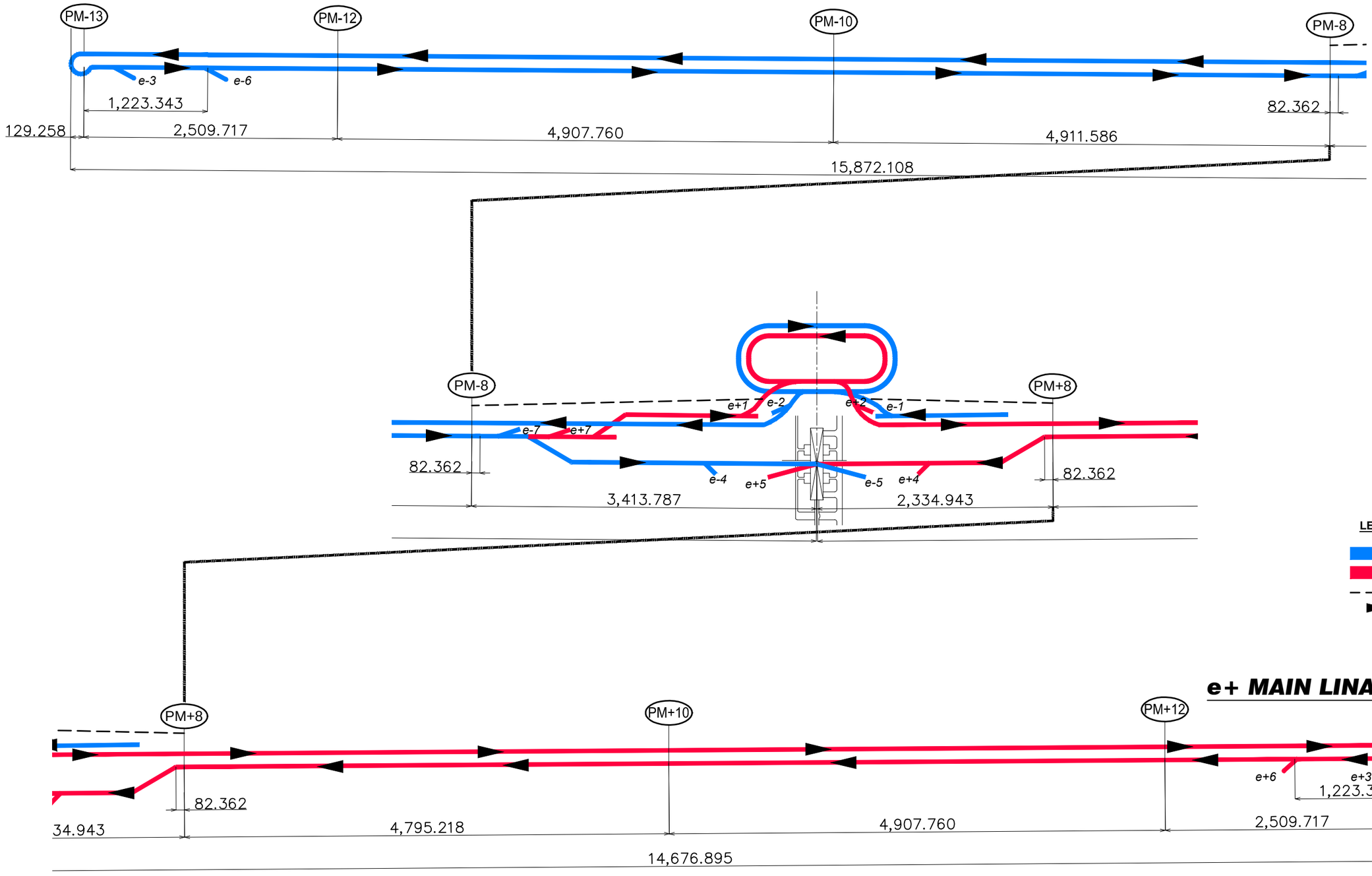
ilc	GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST UNDERGROUND STRUCTURE - KEY PLAN	KEK	DRAWING NO. G - 02 SCALE 1/40,000	REVISION DATE 30 Nov. 2012

e- MAIN LINAC



ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **AREA DESIGNATION - KEY PLAN**	KEK	**DRAWING NO.** G - 03	**REVISION**
				SCALE 1/40,000	**DATE** 30 Nov. 2012

e- MAIN LINAC

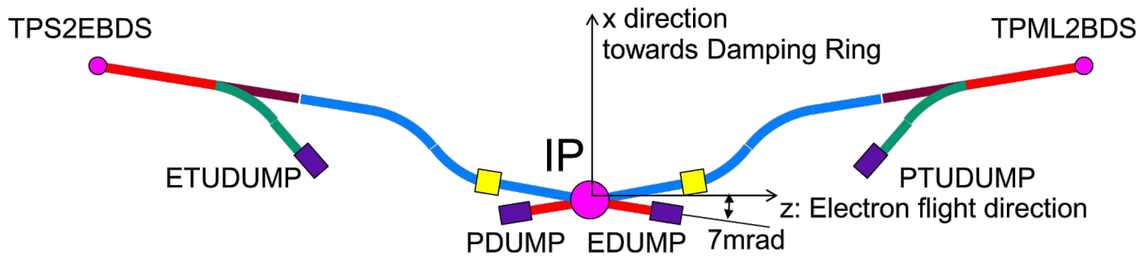


ilc	GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST ELECTRON & PROTON FLOW - KEY PLAN	KEK	DRAWING NO. G - 04 SCALE 1/40,000	REVISION DATE 30 Nov. 2012

ILC Beam Delivery SystemBeamlines
Conceptual Overview

B. List, DESY -IPP- 24.2.2012

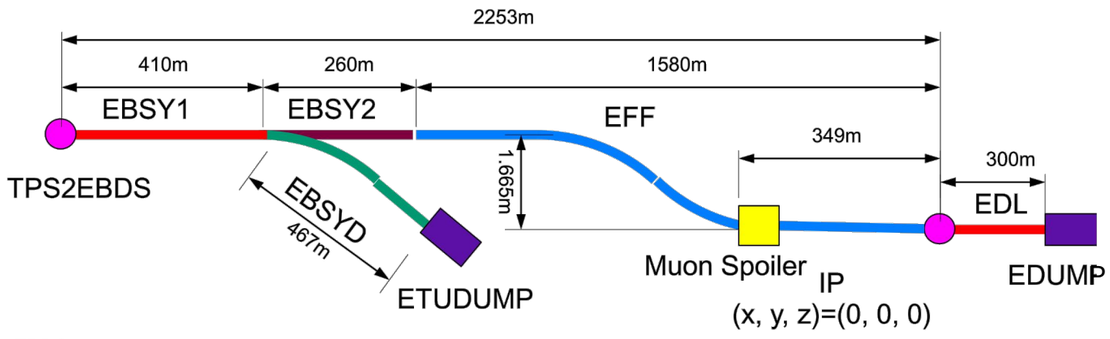
BDS Overview



ILC Beam Delivery SystemBeamlines
Conceptual Overview

B. List, DESY -IPP- 24.2.2012

Electron BDS



File EBDS:

TPS2EBDS:	Treaty Point Positron Source to Electron BDS [1]
EBSY1:	Electron Beam Switchyard 1 (includes emittance measurement and energy measurement chicane)
EBSY2:	Electron Beam Switchyard 2 (includes polarimeter chicane)
EFF:	Electron Final Focus (includesbetatron and energy collimation
IP:	Interaction Point, defines (0, 0, 0)
EDL:	Electron Dump Line
EDUMP:	Electron main Dump (14MW)

File EBSYD:

EBSYD:	Electron Beam Switchyard Dump line
ETUDUMP:	Electron Tuneup Dump (14MW)

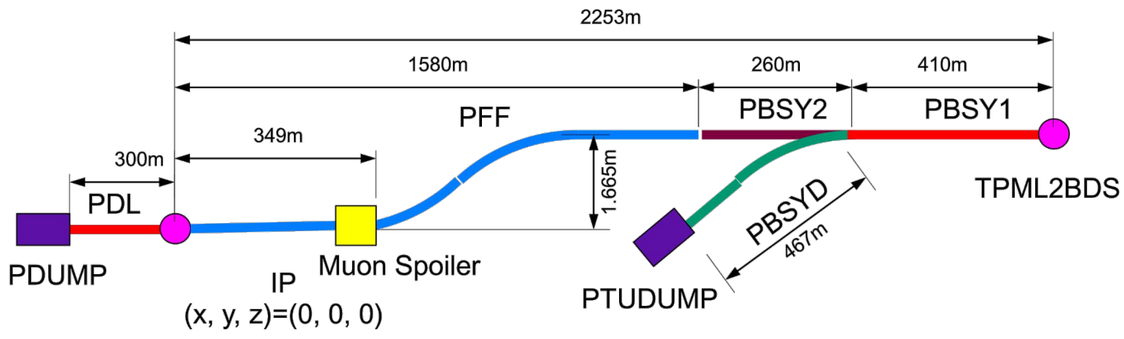
All distances are indicative only. The precise geometry is defined by the lattice!

EDMS ID: D000000000976355

ILC Beam Delivery SystemBeamlines
Conceptual Overview

B. List, DESY -IPP- 24.2.2012

Positron BDS



File PBDS:

TPS2EBDS:	Treaty Point Positron Source to Electron BDS [1]
PBSY1:	Positron Beam Switchyard 1 (includes emittance measurement and energy measurement chicane)
PBSY2:	Positron Beam Switchyard 2 (includes polarimeter chicane)
PFF:	Positron Final Focus (includesbetatron and energy collimation
IP:	Interaction Point, defines (0, 0, 0)
PDL:	Positron Dump Line
PDUMP:	Positron main Dump (14MW)

File PBSYD:

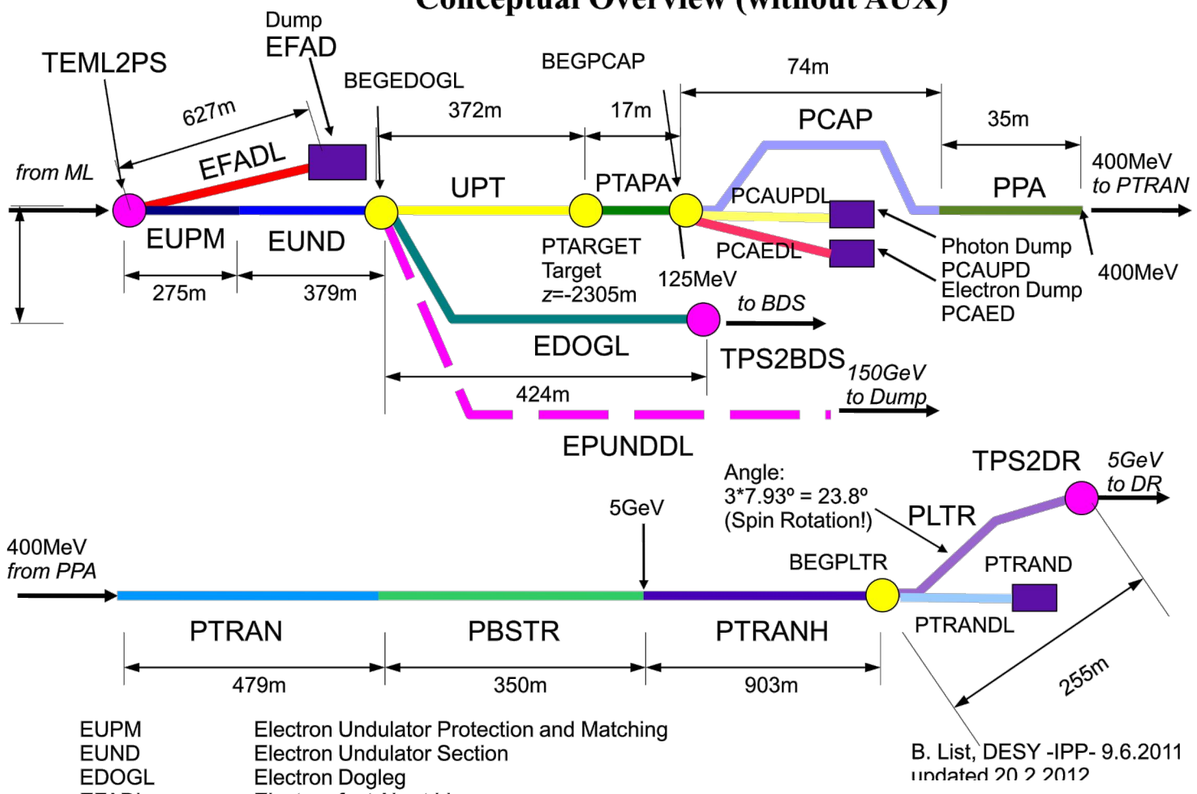
PBSYD:	Positron Beam Switchyard Dump line
PTUDUMP:	Positron Tuneup Dump (14MW)

All distances are indicative only. The precise geometry is defined by the lattice!

EDMS ID: D000000000976355

	GLOBAL DESIGN EFFORT **ASIA REGION**	**ASIAN ILC BASIS OF COST** **BDS - CONCEPTUAL OVERVIEW**	KEK	**DRAWING NO.** G - 05 / **SCALE**	**REVISION** / **DATE 30 Nov. 2012**

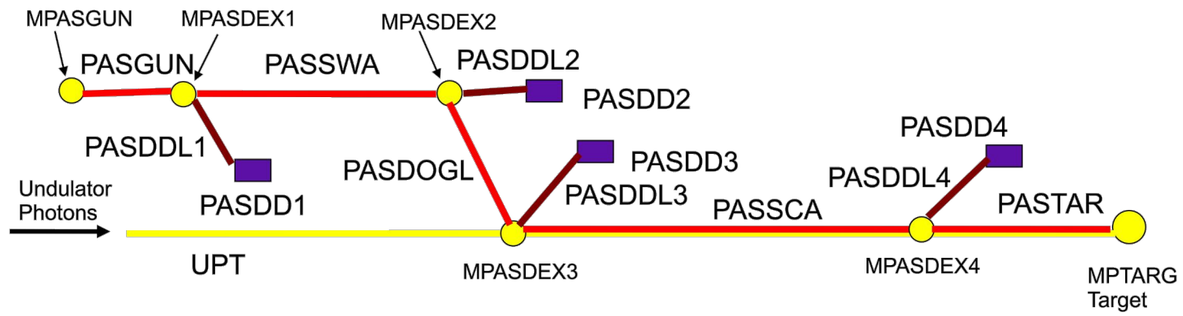
Positron Source Beamlines
Conceptual Overview (without AUX)



EUPM	Electron Undulator Protection and Matching
EUND	Electron Undulator Section
EDOGL	Electron Dogleg
EFADL	Electron fast Abort Line
EFAD	Electron Fast Abort Dump
EPUNDDL	Electron Post-Undulator Dump Line
UPT	Undulator Photon Transport to Target
MEUNDEND	Marker Undulator End
MPTARG	Marker Positron Source Target
MPTAEND	Marker Positron Source Target Area End
MPLTRBEG	Marker Positron Source Line ro Ring Begin
PTAPA	Positron Source Target Area and Pre-Accelerator
PCAP	Positron Source Capture Section
PCAUPDL	Positron Source Capture Area Undulator Photon Dump Line
PCAUPD	Positron Source Capture Area Undulator Photon Dump
PCAEDL	Positron Source Capture Area Electron Dump Line
PCAED	Positron Source Capture Area Electron Dump
PPA	Positron Source Pre-Accelerator (to 400 MeV)
PTRAN	Positron Source Transfer Line
PBSTR	Positron Source 5GeV Booster (including Matching Sections)
PTRANH	Positron Source Transfer Line (High Energy)
PTRANDL	Positron Source Transfer Dump Line
PTRAND	Positron Source Transfer Dump
PLTR	Positron Source Line to Ring
PLTRARC1	PLTR Arc 1
PLTREC	PLTR Energy Compression
PLTRSR	PLTR Spin Rotation
PLTRARC2	PLTR Arc 2
PLTRELEV	PLTR Elevator
TEML2PS	Treaty Point Electron Main Linac to Positron Source
TPS2BDS	Treaty Point Positron Source to BDS
TPS2DR	Treaty Point Positron Source to Damping Ring

B. List, DESY -IPP- 9.6.2011
updated 20.2.2012

Positron Source Auxilliary Source Beamlines
Conceptual Overview

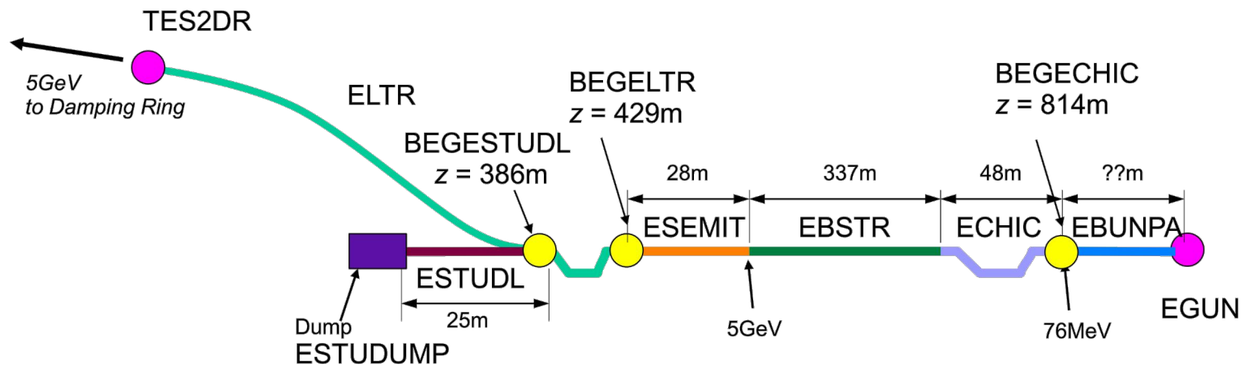


UPT	Undulator Photons to Target
MPASGUN	Marker Positron Auxilliary Source Gun
MPASDEX1-4	Marker Positron Auxilliary Source Diagnostics Line Extraction 1 to 4
MPATARG	Marker Positron Source Target
PASGUN	Positron Auxilliary Source Gun and Subharmonic Buncher
PASSWA	Positron Auxilliary Source Standing Wave Accelerator
PASDDL1-4	Positron Auxilliary Source Diagnostics Dump Line 1 to 4
PASDD1-4	Positron Auxilliary Source Diagnostics Dump 1 to 4
PASSCA	Positron Auxilliary Source SC Accelerator
PASDOGL	Positron Auxilliary Source Dogleg
PASTAR	Positron Auxilliary Source Target Line

ILC Electron Source Beamlines
Conceptual Overview

B. List, DESY -IPP- 27.2.2012

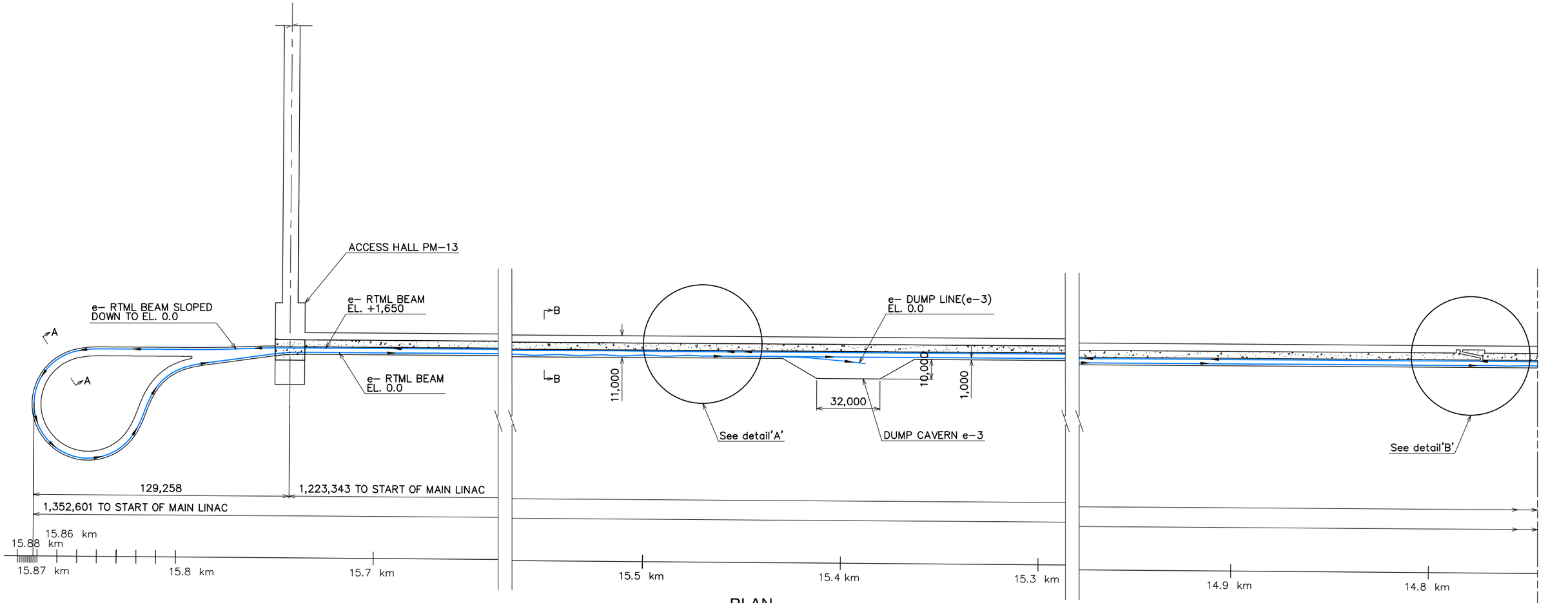
B. List, DESY -IPP- 9.6.2011



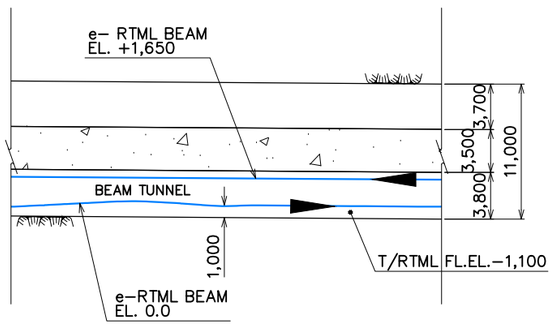
EGUN:	Electron Gun
EBUNPA:	Electron Buncher and Preaccelerator [1]
ECHIC:	Electron vertical Chicane (collimation section)
ESEMIT:	Electron Source Emittance Measurement
EBSTR:	Electron 5 GeV Booster
ELTR:	Electron Linac tunnel to damping Ring [2]
TES2DR:	Treaty Point Electron Source to Damping Ring [2, 3]
ESTUDL:	Electron Source Tuneup Dump Line
ESTUD:	Electron Source Tuneup Dump

EDMS ID: D00000000975475

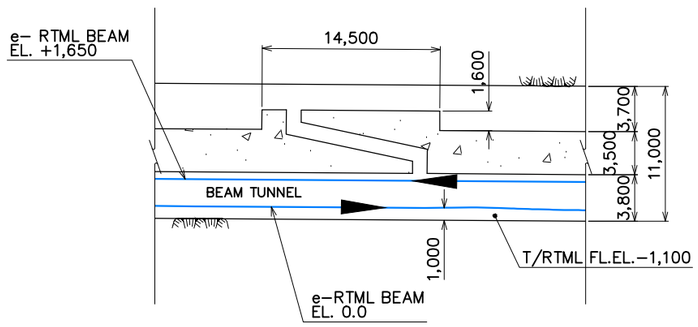
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST SOURCES - CONCEPTUAL OVERVIEW	KEK	DRAWING NO. G - 06 / REVISION SCALE / DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
1/500

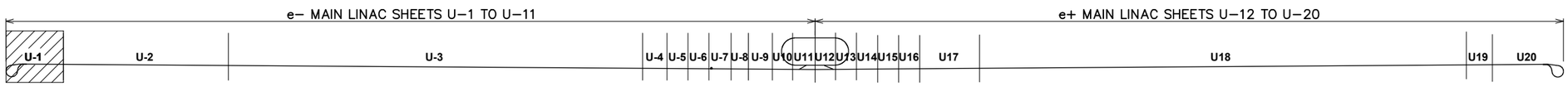


DETAIL 'B'
1/500

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

0 100m
PLAN
0 25m
DETAIL



GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 01	KEK	DRAWING NO. U - 01 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012

NOTE:
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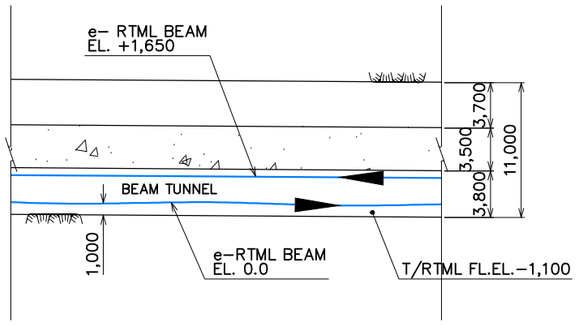
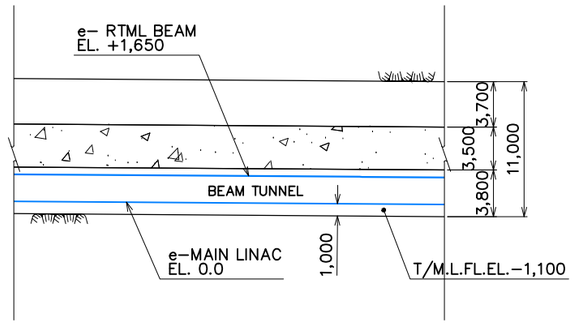
LEGEND
- DR
- −e ELECTRON
- +e POSITRON

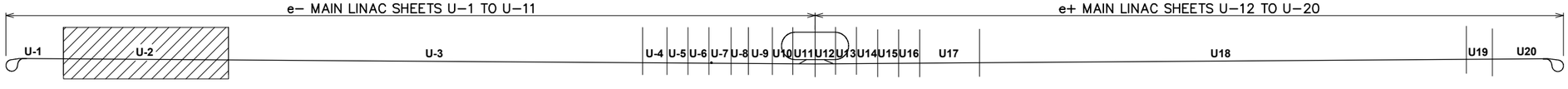


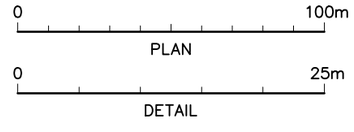
DETAIL 'A'
1/500



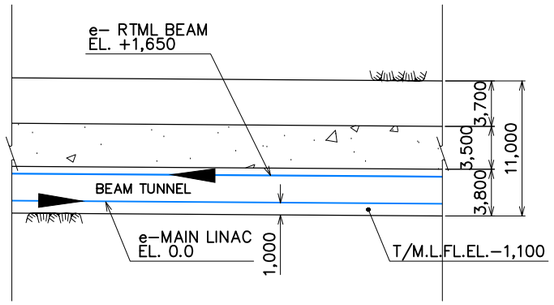
DETAIL 'B'
1/500

PLAN
1/2,000





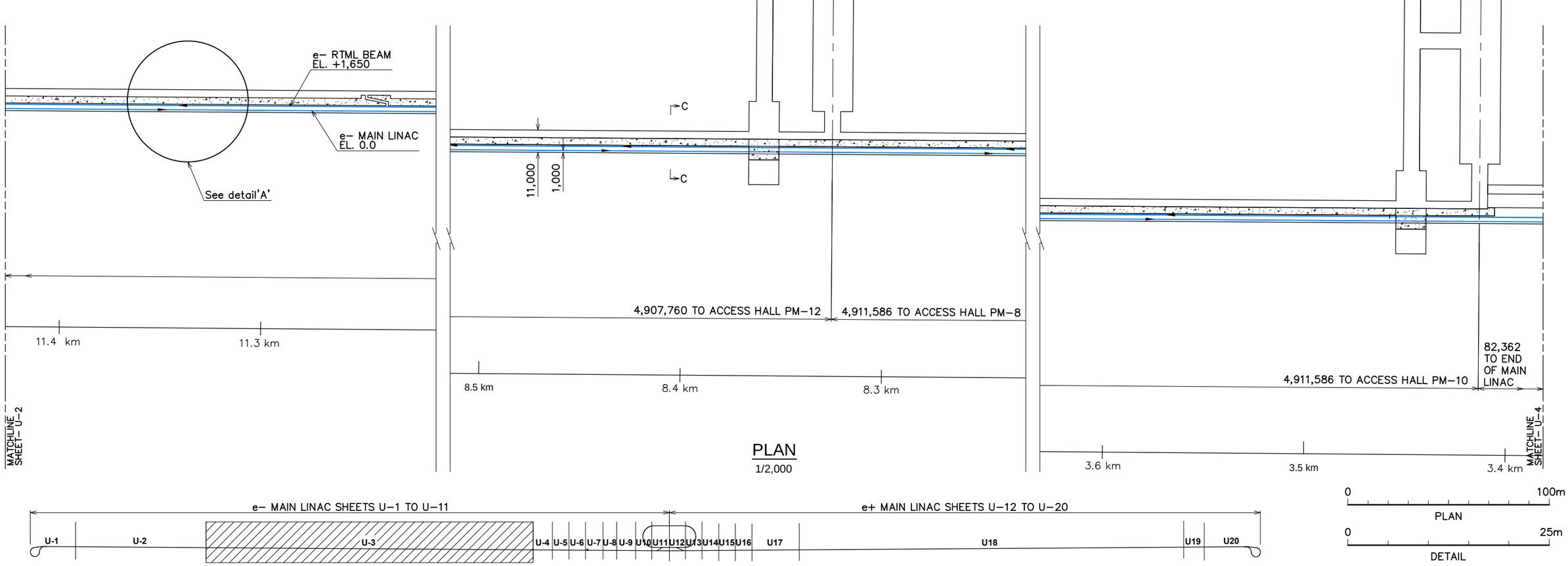
ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **e- UNDERGROUND STRUCTURES - PLAN SHT. - 02**	KEK	**DRAWING NO.** U - 02	**REVISION**
				SCALE 1/2,000, 1/500	**DATE** 30 Nov. 2012



DETAIL 'A'
1/500

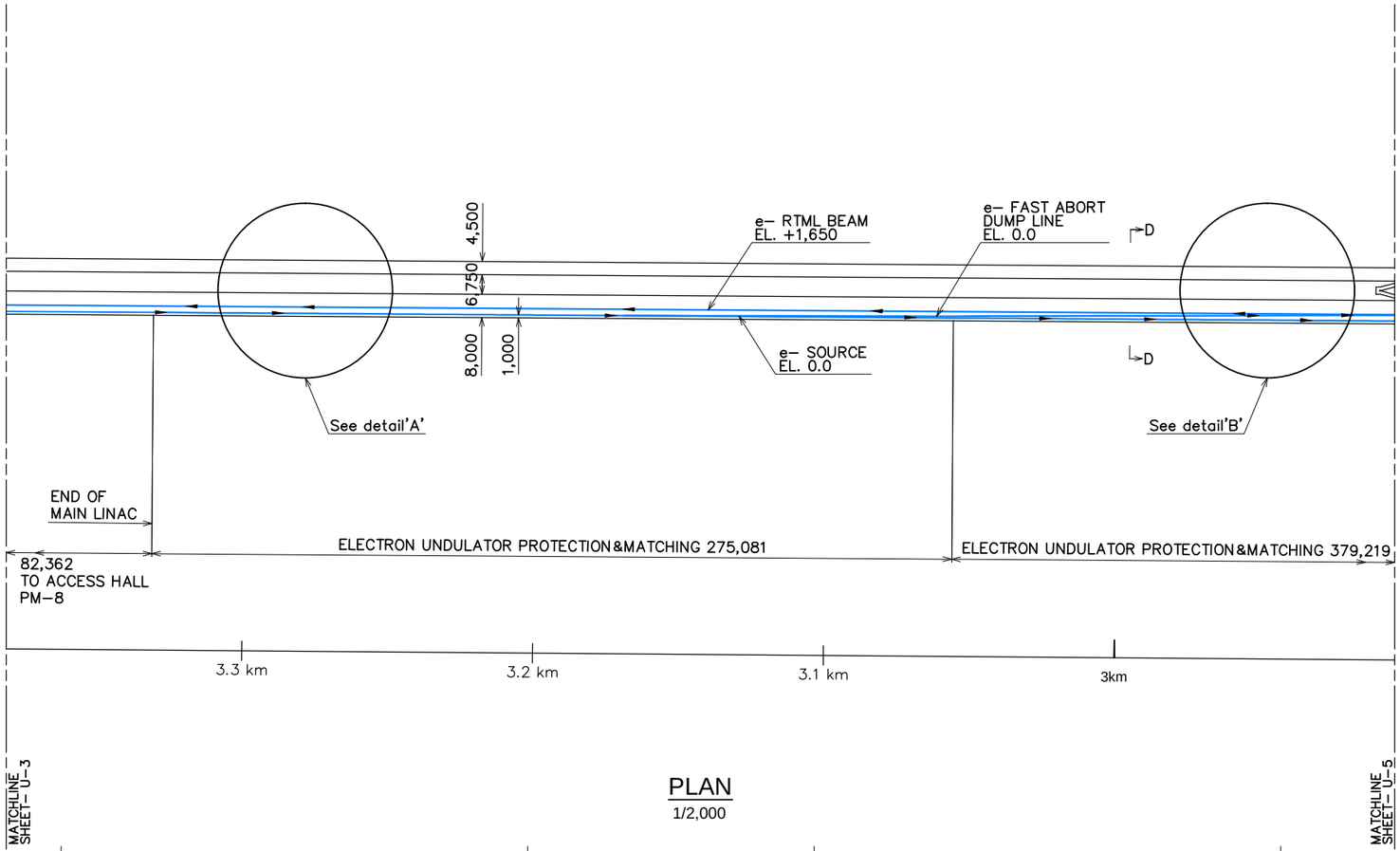
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

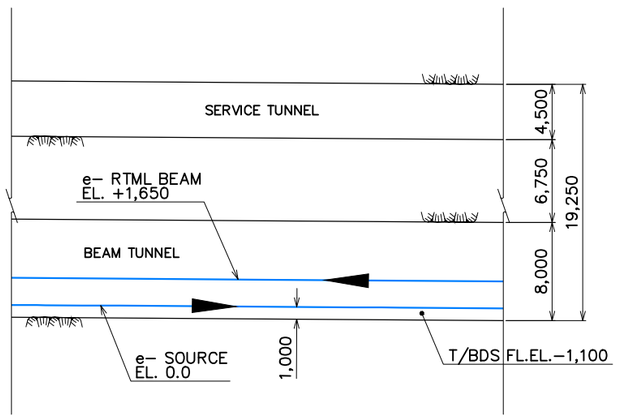


PLAN
1/2,000

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 03	KEK	DRAWING NO. U - 03	REVISION
			SCALE 1/2,000, 1/500	DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
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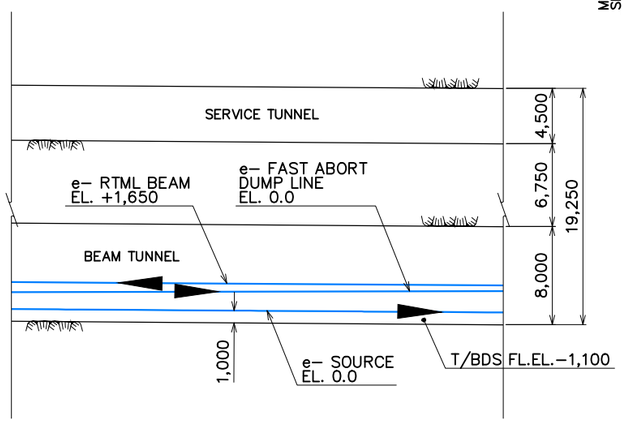
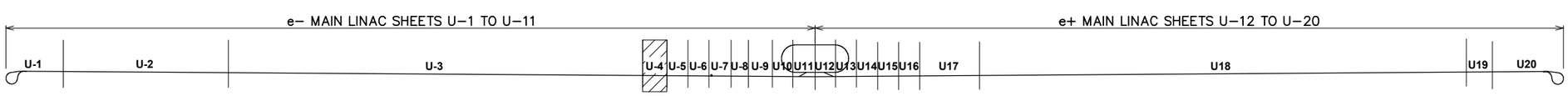


DETAIL 'B'
1/500

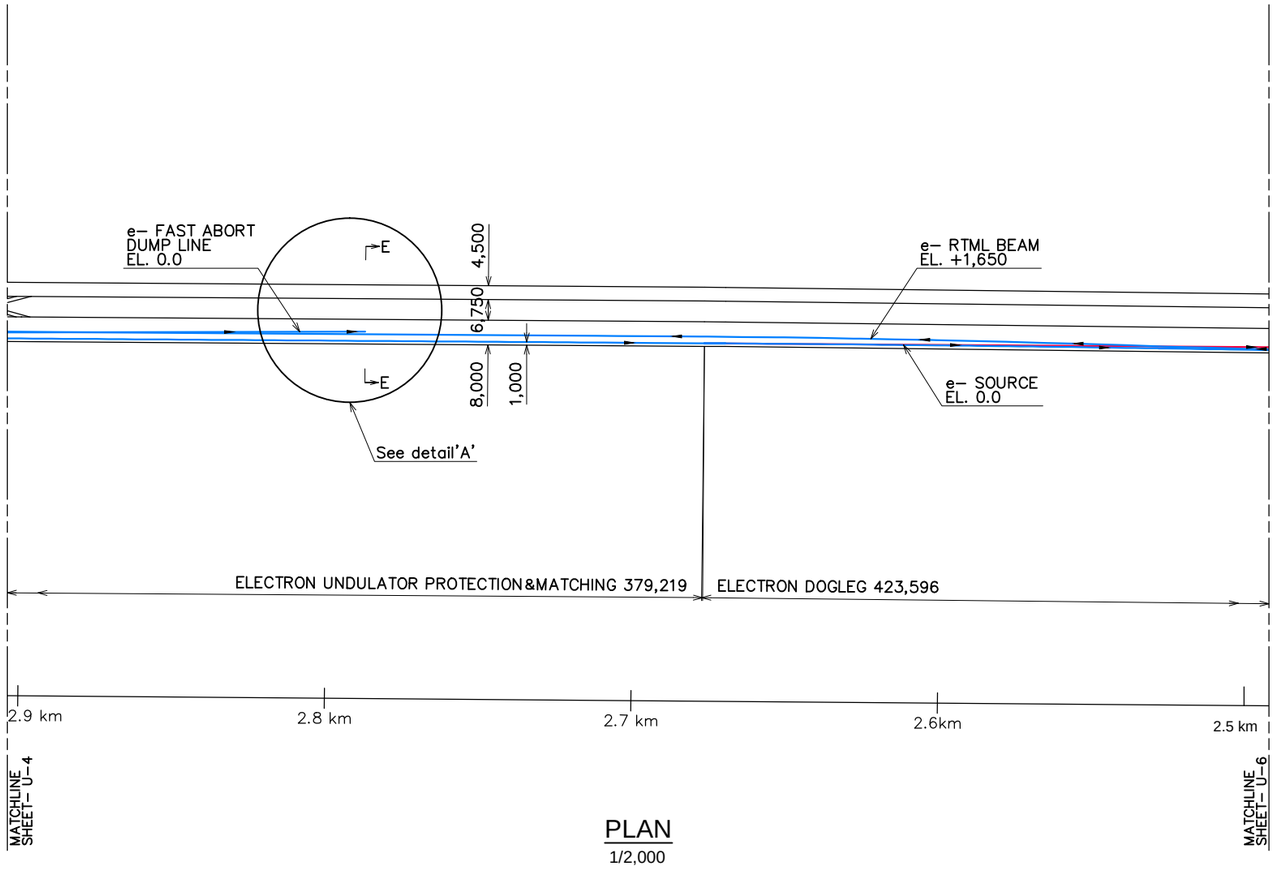
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

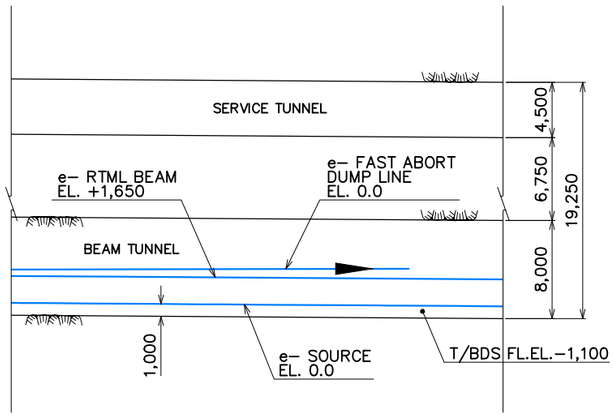
0 100m
PLAN
0 25m
DETAIL



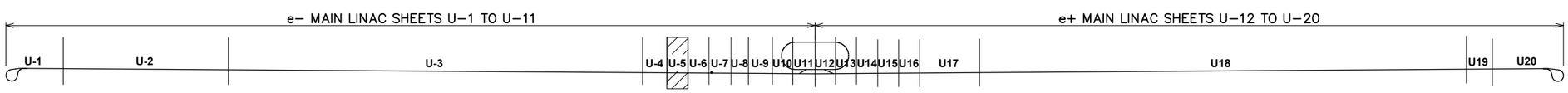
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 04	KEK	DRAWING NO. U - 04 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
1/500

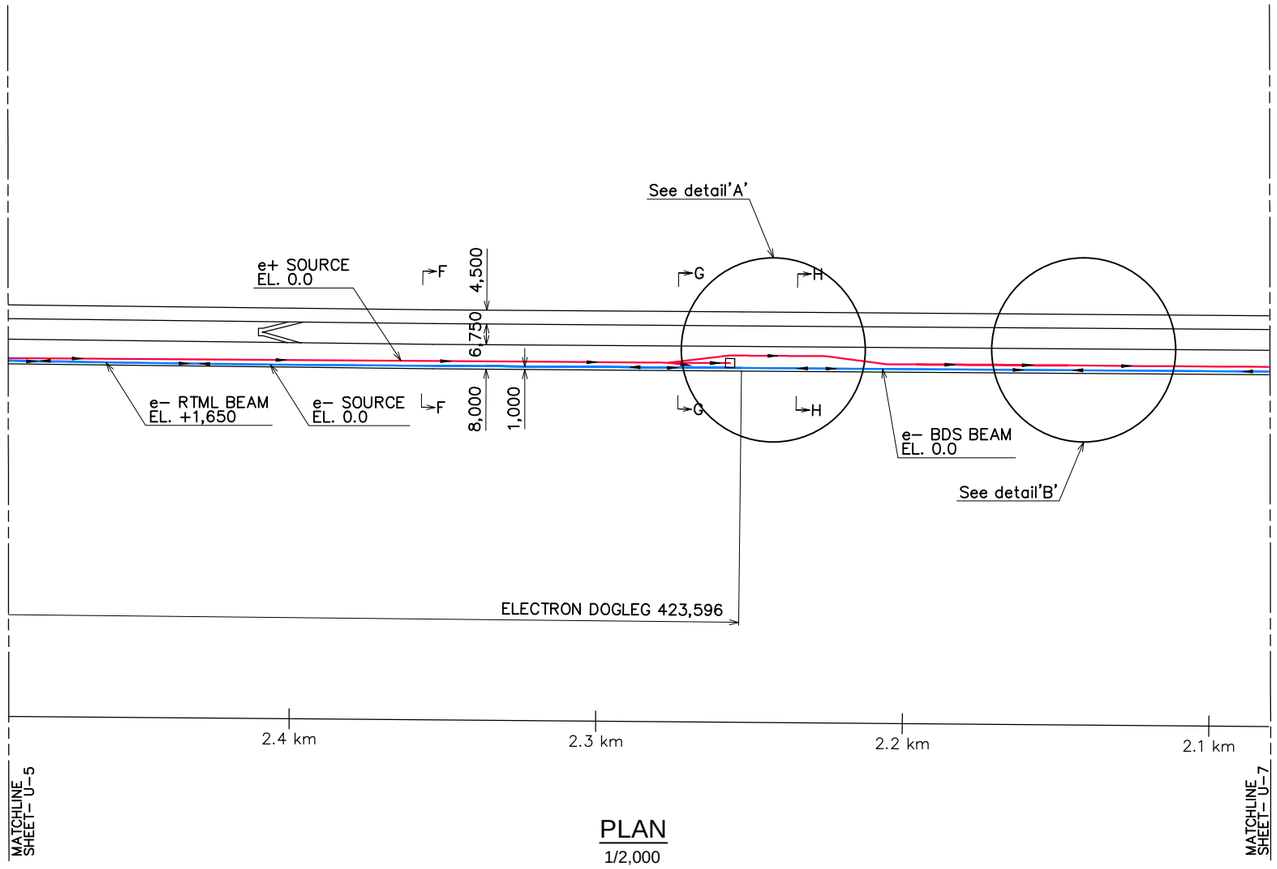


NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

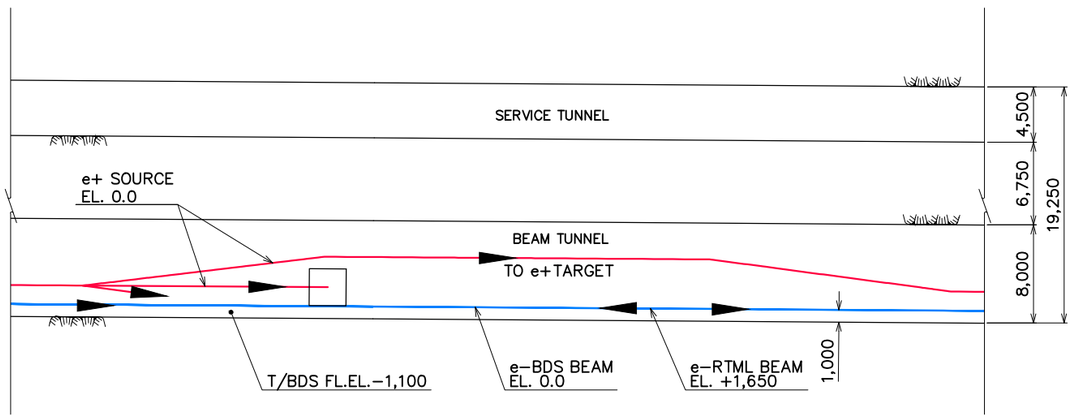
LEGEND
- DR
- –e ELECTRON
- +e POSITRON

0 100m
PLAN
0 25m
DETAIL

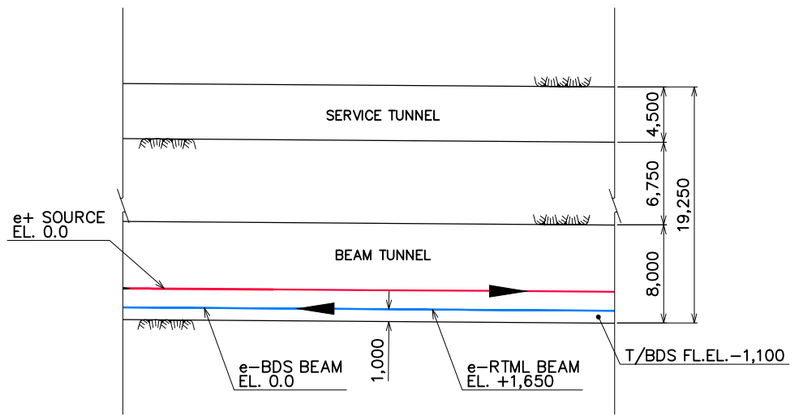
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 05	KEK	DRAWING NO. U - 05 / SCALE 1/2,000, 1/500 / REVISION / DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
1/500

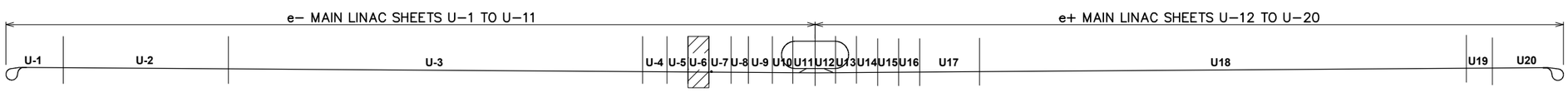


DETAIL 'B'
1/500

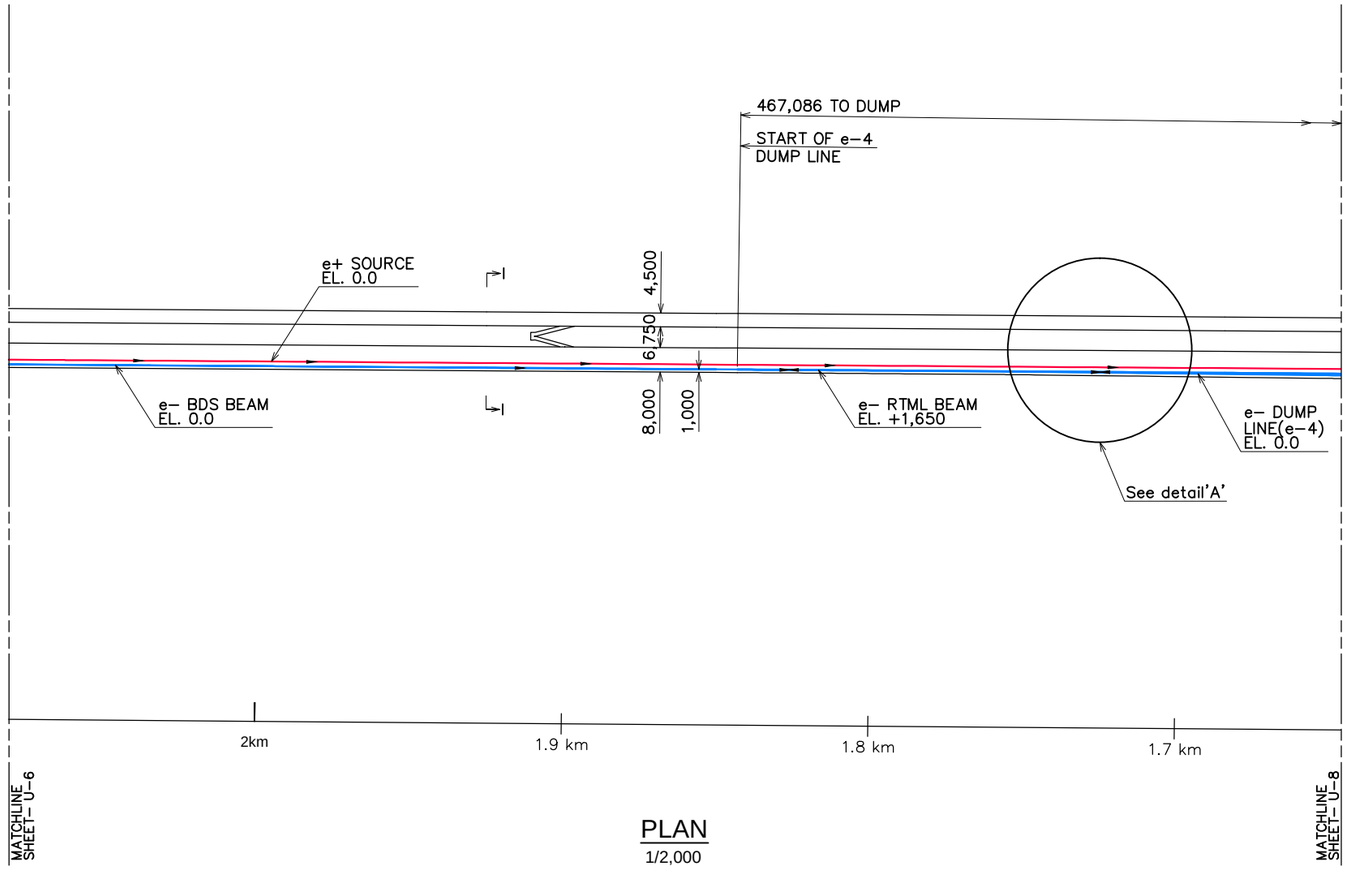
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

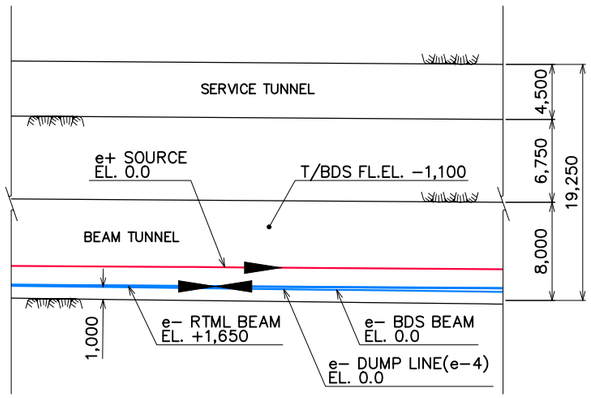
0 100m
PLAN
0 25m
DETAIL



GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 06	KEK	DRAWING NO. U - 06 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



PLAN
1/2,000

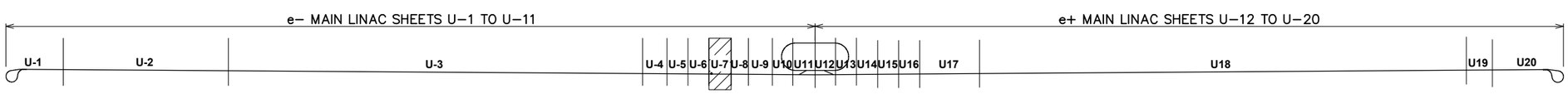


DETAIL 'A'
1/500

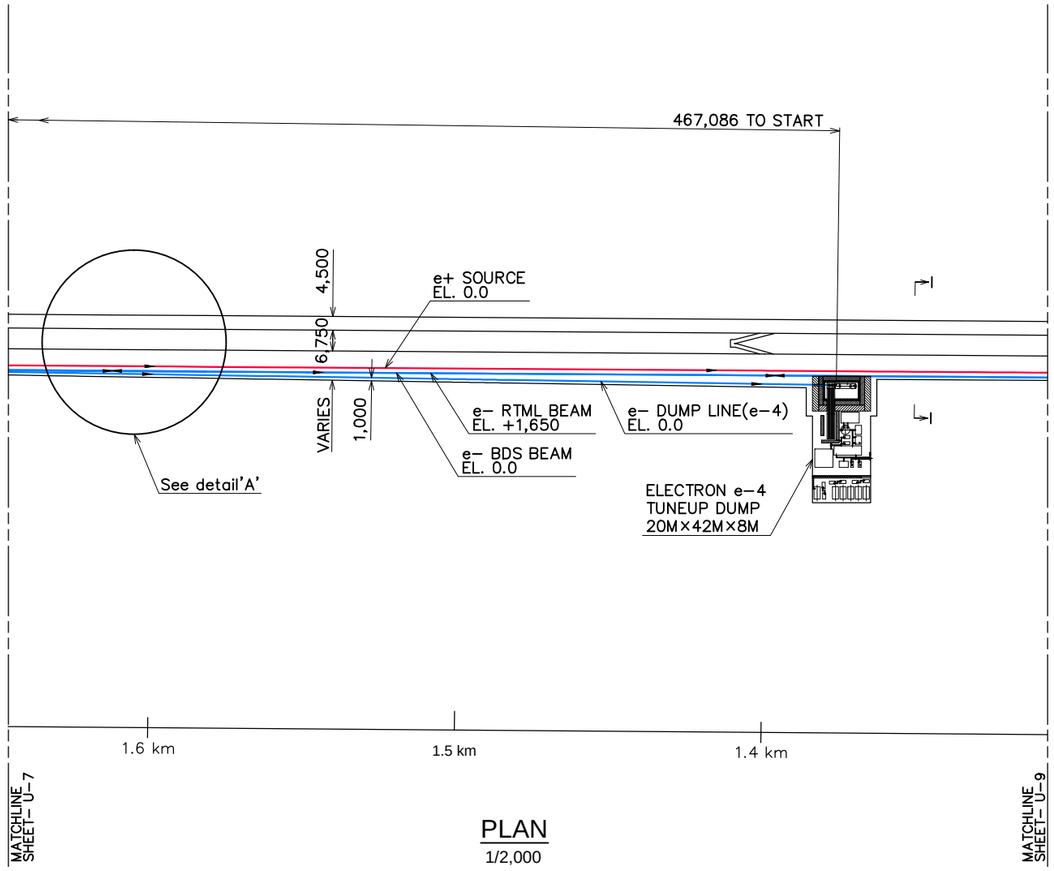
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

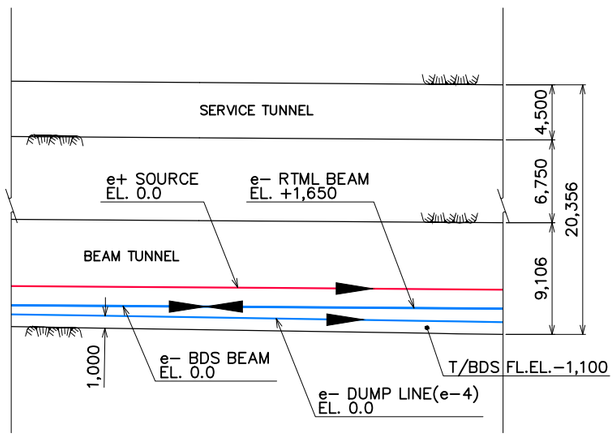
0 100m
PLAN
0 25m
DETAIL



GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 07	KEK	DRAWING NO. U - 07 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



PLAN
1/2,000

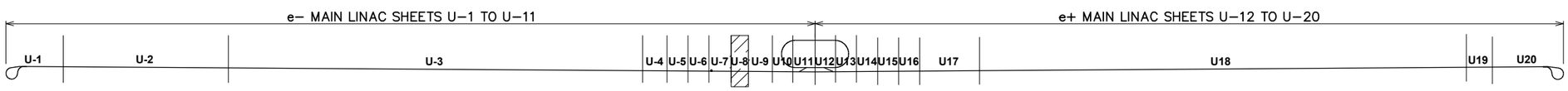


DETAIL 'A'
1/500

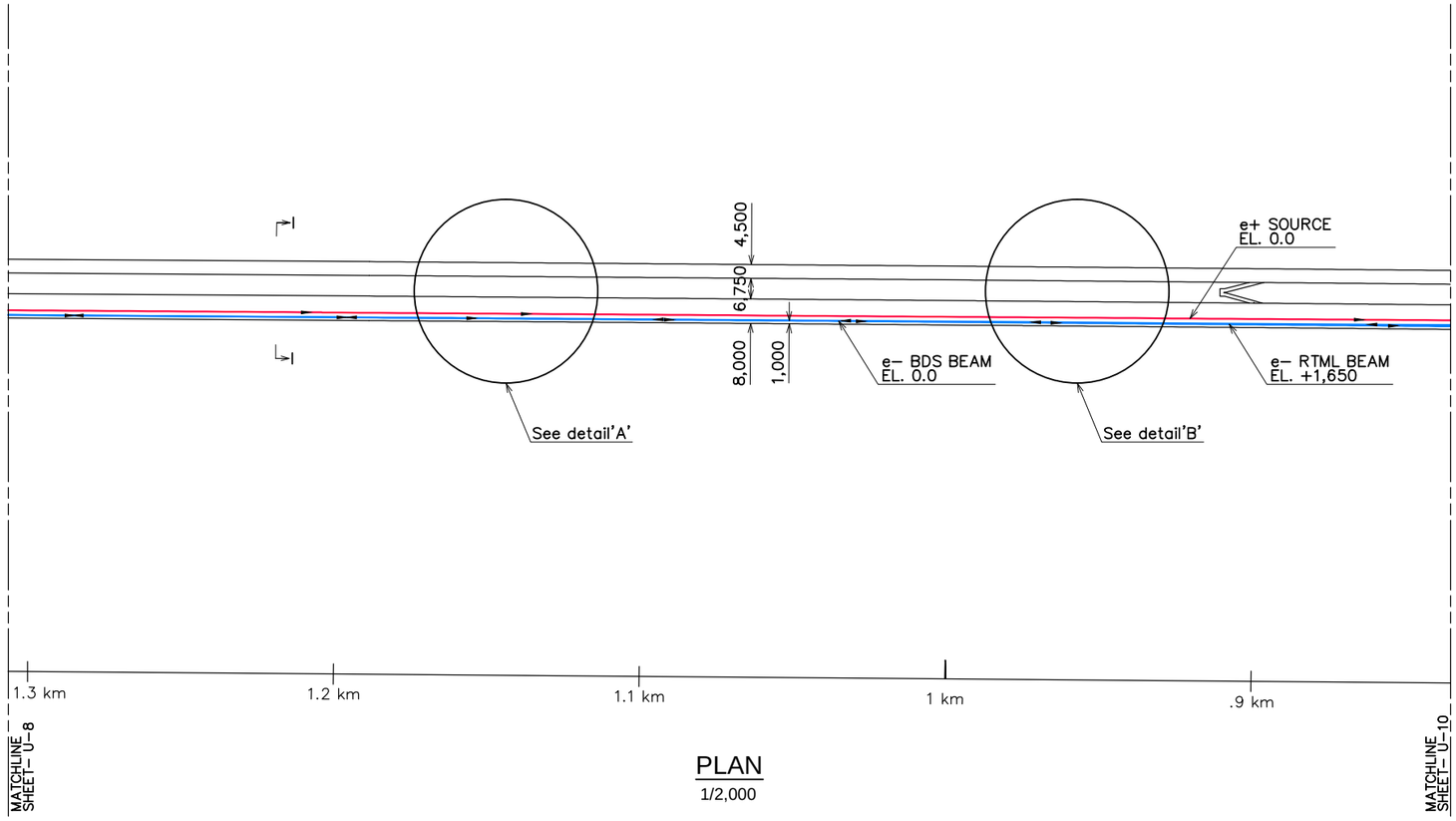
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

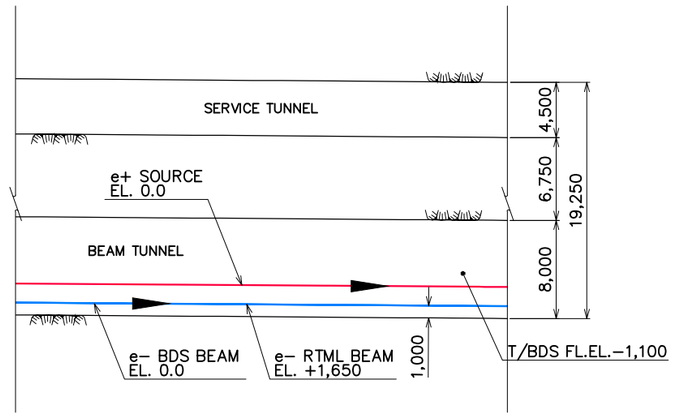
0 100m
PLAN
0 25m
DETAIL



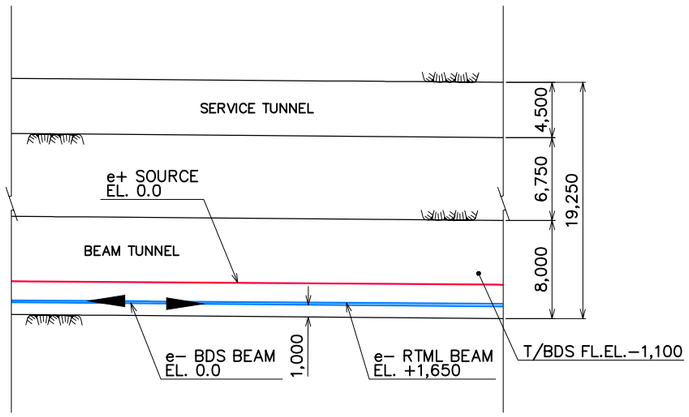
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 08	KEK	DRAWING NO. U - 08 / SCALE 1/2,000, 1/500	REVISION / DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
1/500

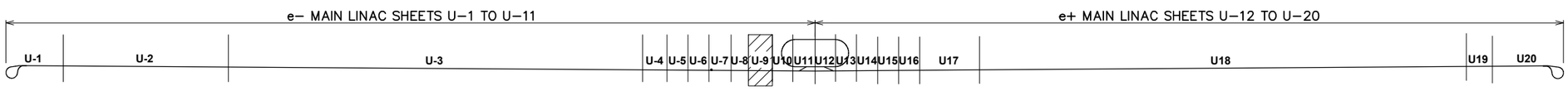


DETAIL 'B'
1/500

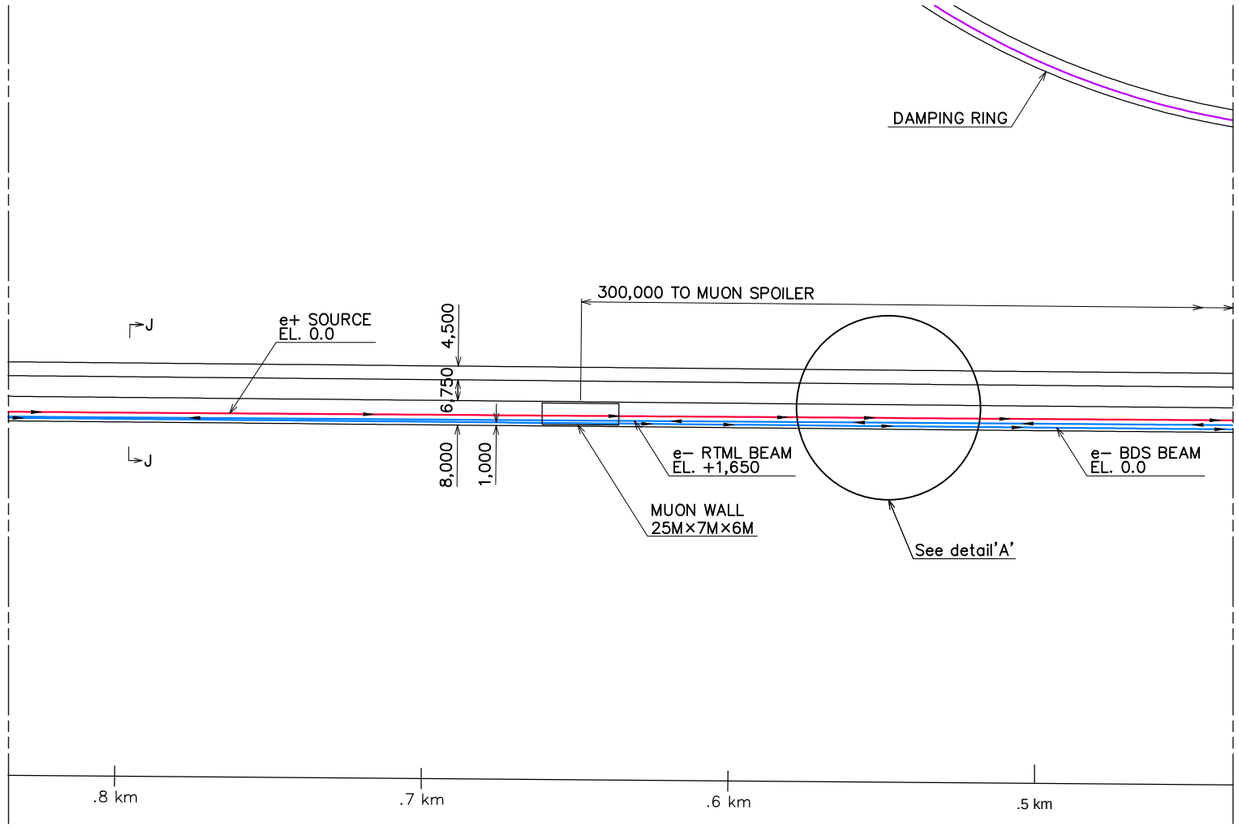
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

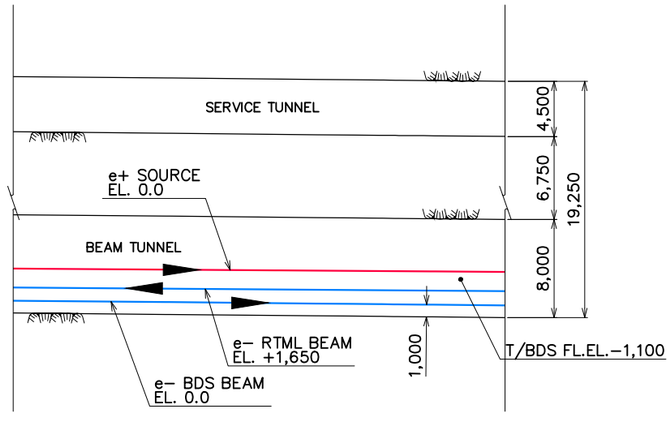
0 100m
PLAN
0 25m
DETAIL



GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 09	KEK	DRAWING NO. U - 09 / REVISION
			SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



PLAN
1/2,000

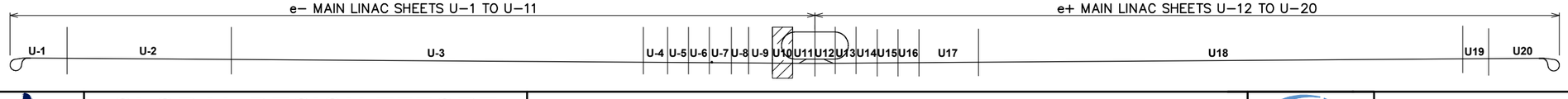


DETAIL 'A'
1/500

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

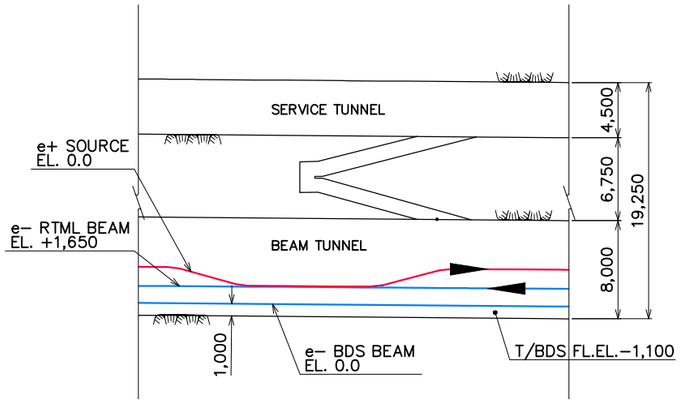
0 100m
PLAN
0 25m
DETAIL



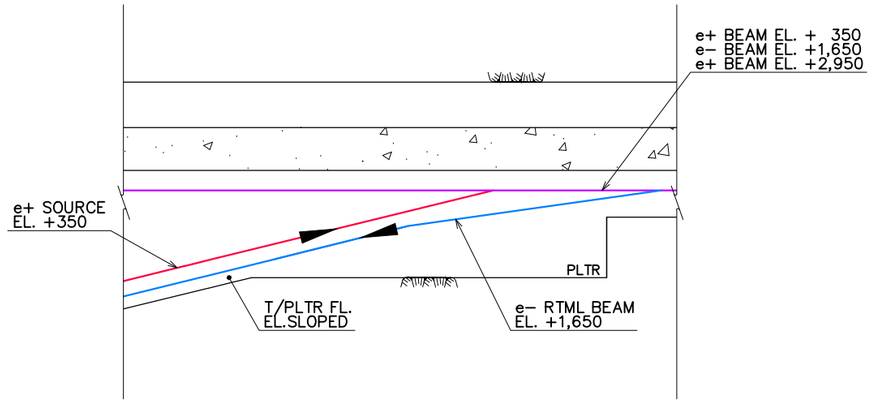
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN SHT. - 10	KEK	DRAWING NO. U - 10 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

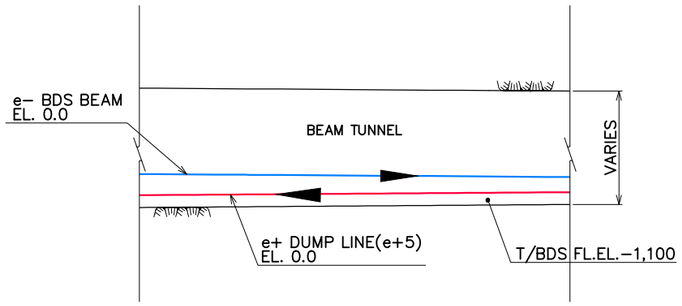
LEGEND
- DR
- −e ELECTRON
- +e POSITRON



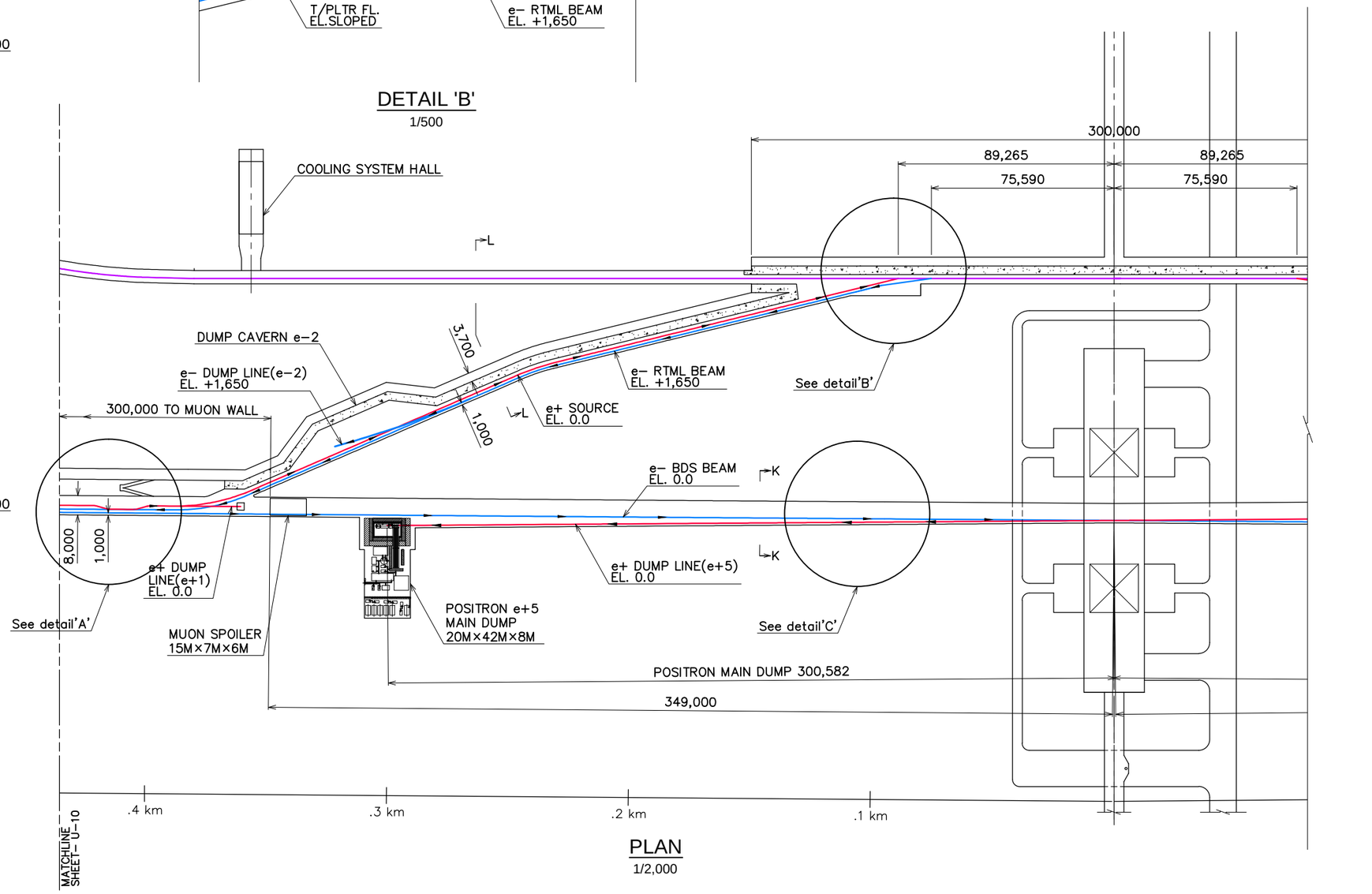
DETAIL 'A'
1/500



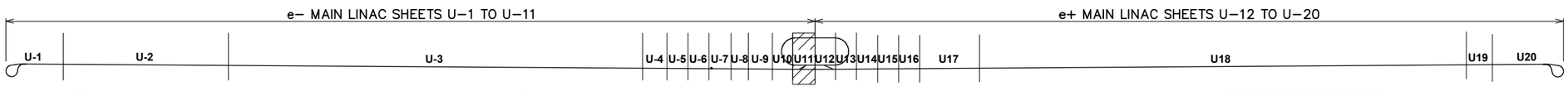
DETAIL 'B'
1/500

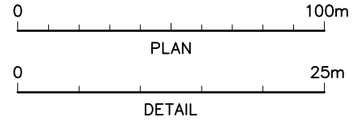


DETAIL 'C'
1/500

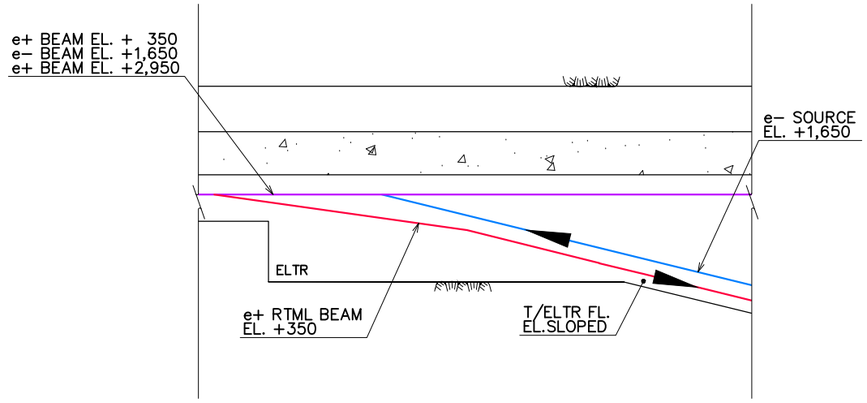


PLAN
1/2,000

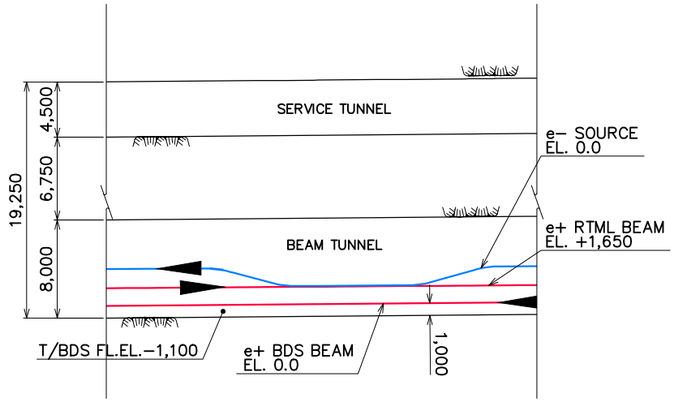




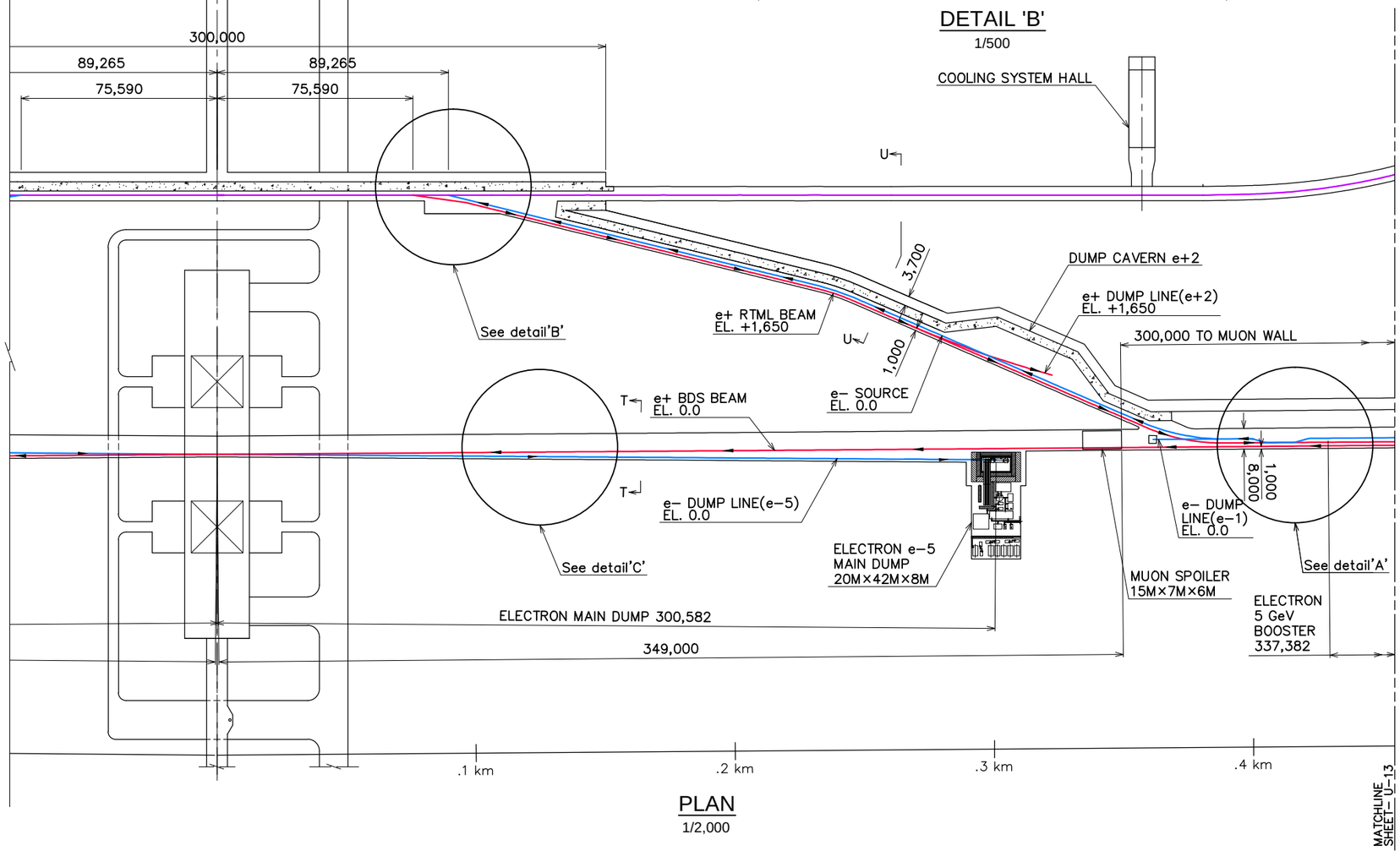
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - PLAN - IR	KEK	DRAWING NO. U - 11 SCALE 1/2,000, 1/500	REVISION DATE 30 Nov. 2012



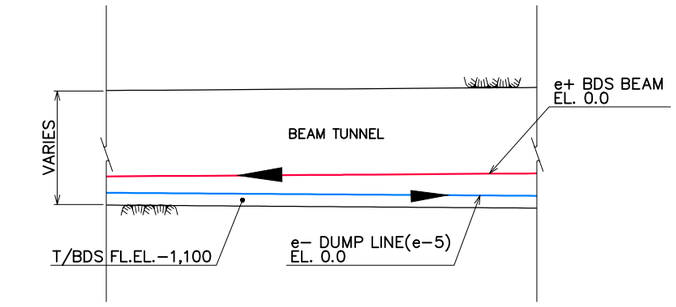
DETAIL 'B'
1/500



DETAIL 'A'
1/500



PLAN
1/2,000

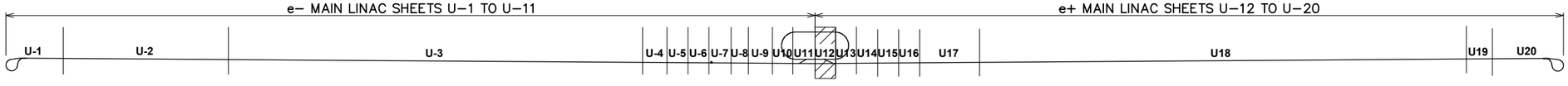


DETAIL 'C'
1/500

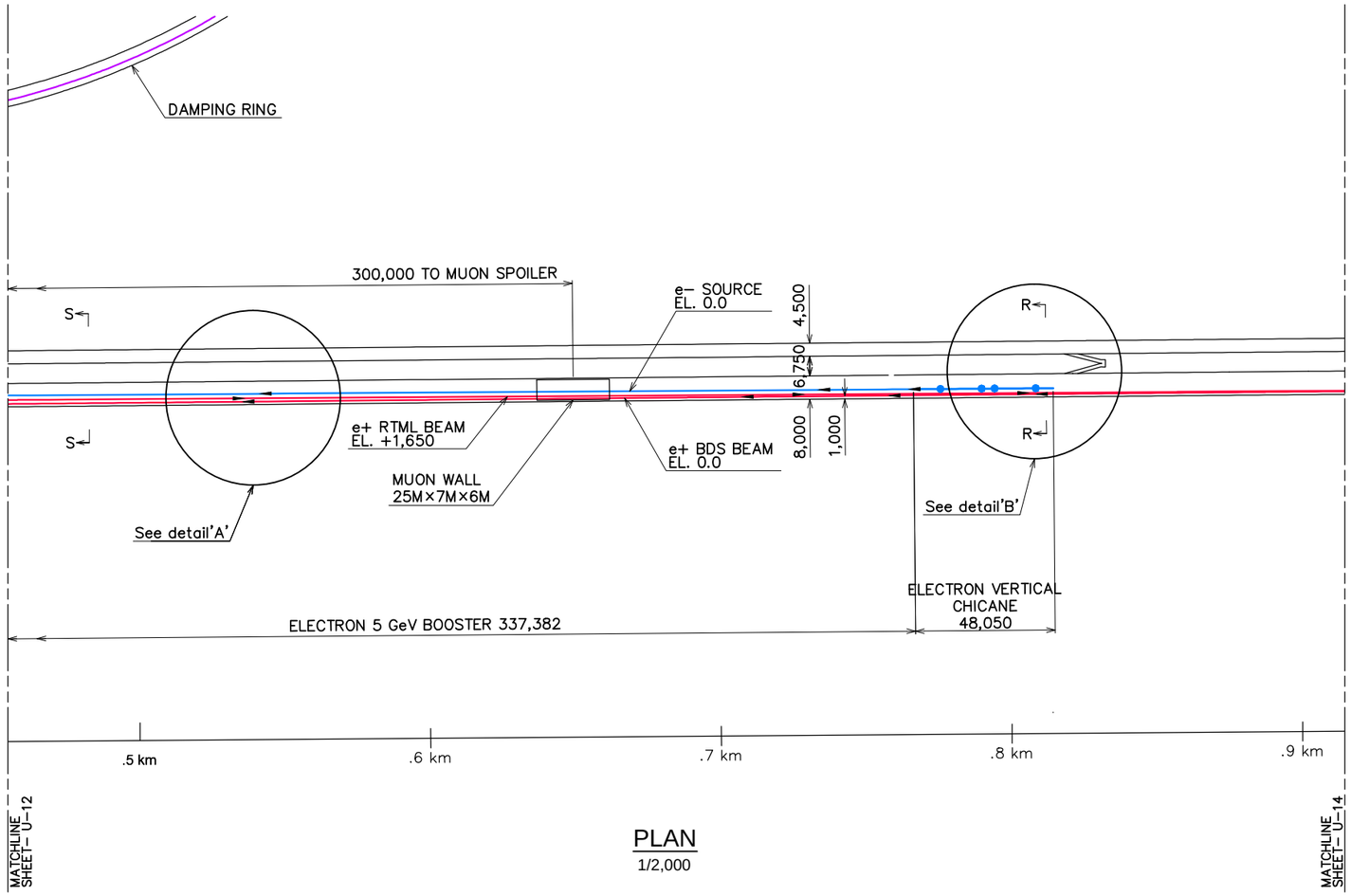
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

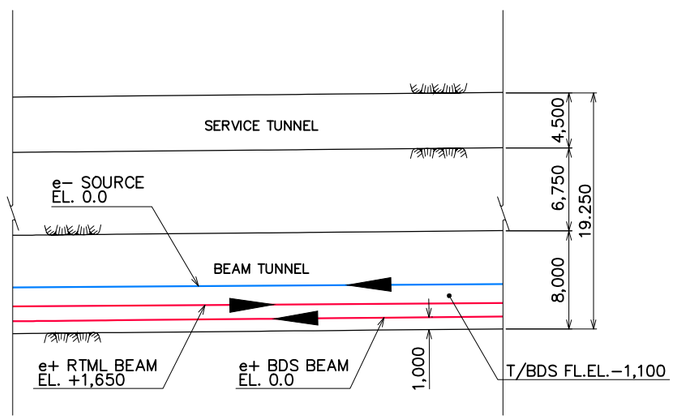
0 100m
PLAN
0 25m
DETAIL



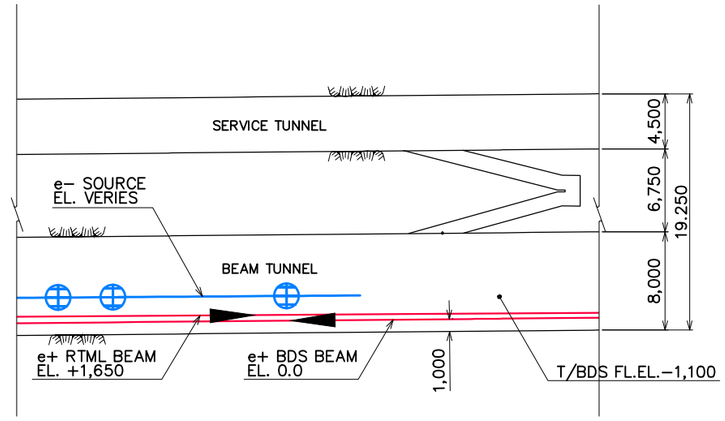
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN - IR	KEK	DRAWING NO. U - 12	REVISION
			SCALE 1/2,000, 1/500	DATE 30 Nov. 2012



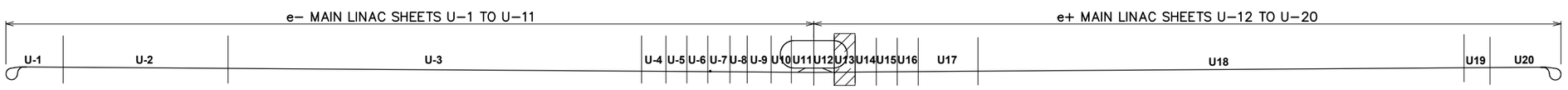
PLAN
1/2,000



DETAIL 'A'
1/500



DETAIL 'B'
1/500

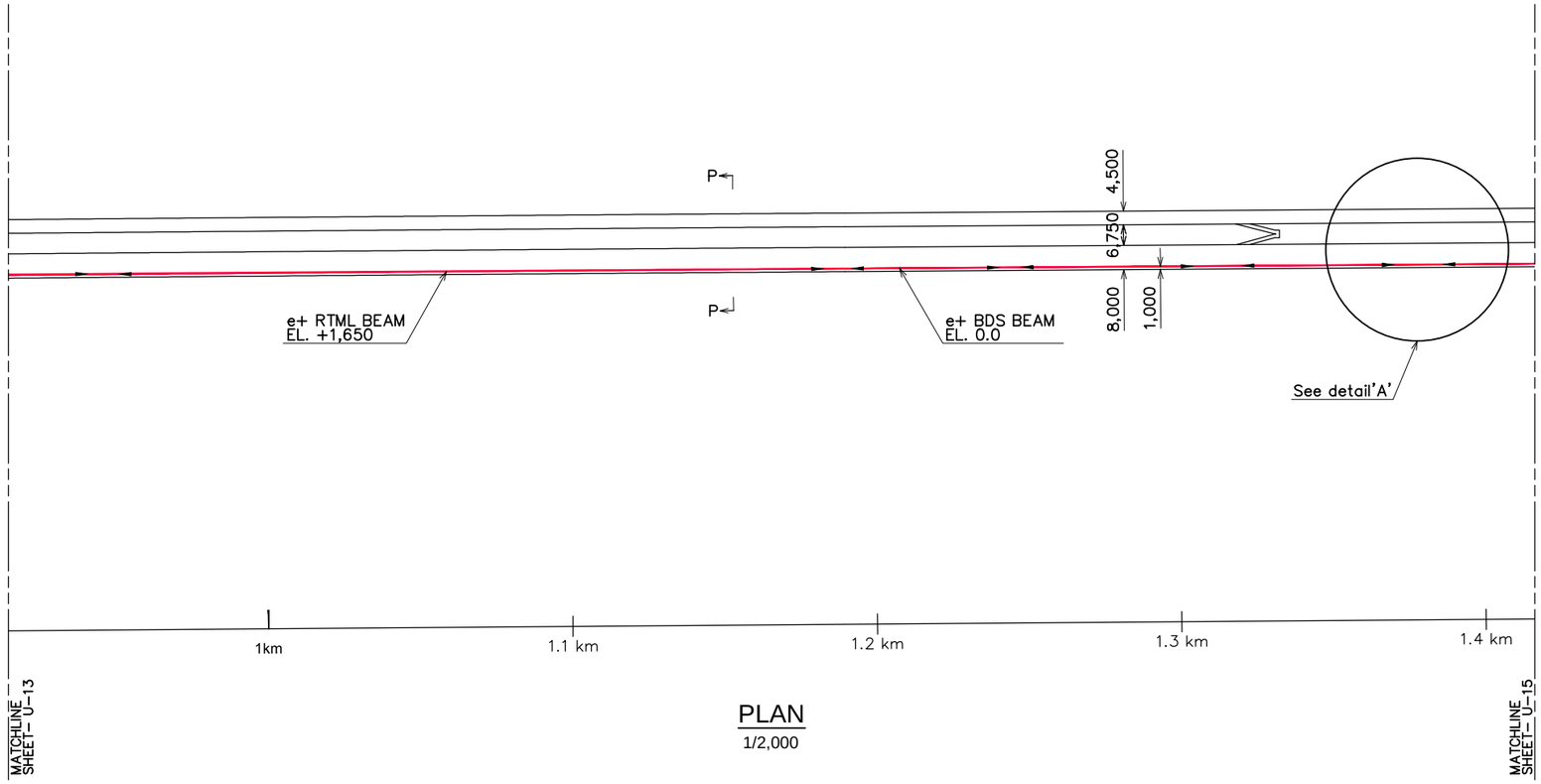


NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

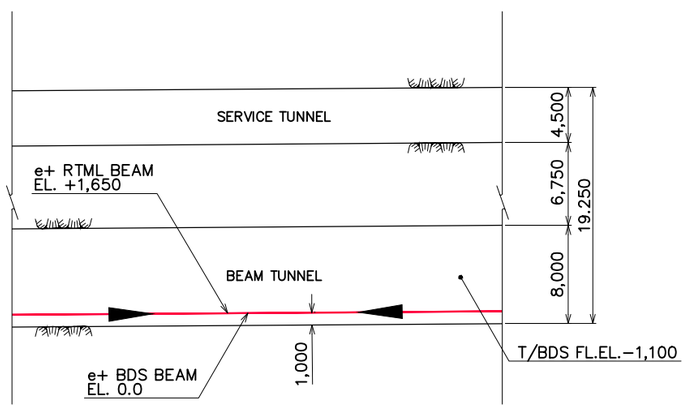
LEGEND
- DR
- −e ELECTRON
- +e POSITRON

0 — 100m
PLAN
0 — 25m
DETAIL

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 01	KEK	DRAWING NO. U - 13 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



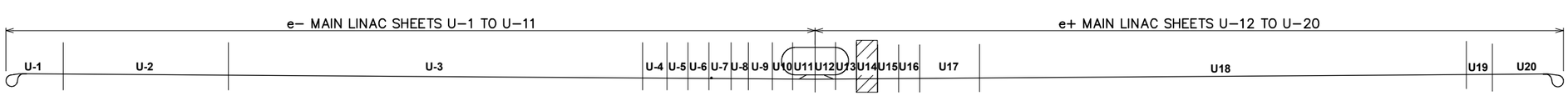
PLAN
1/2,000

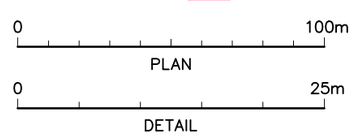


DETAIL 'A'
1/500

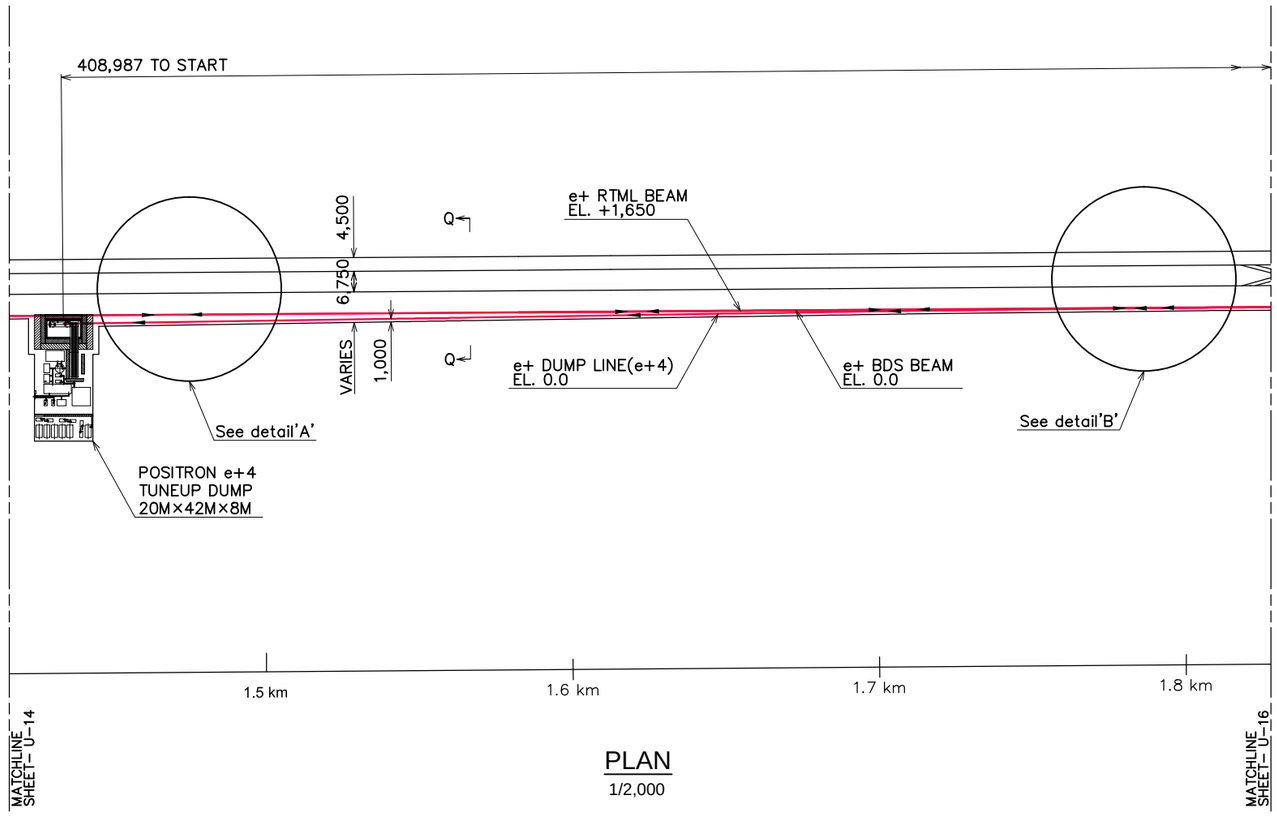
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

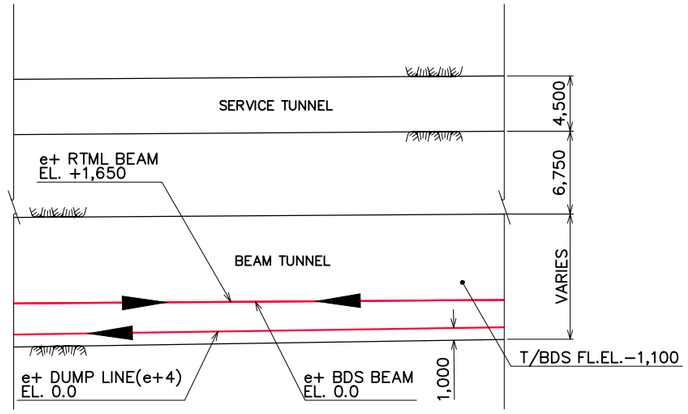




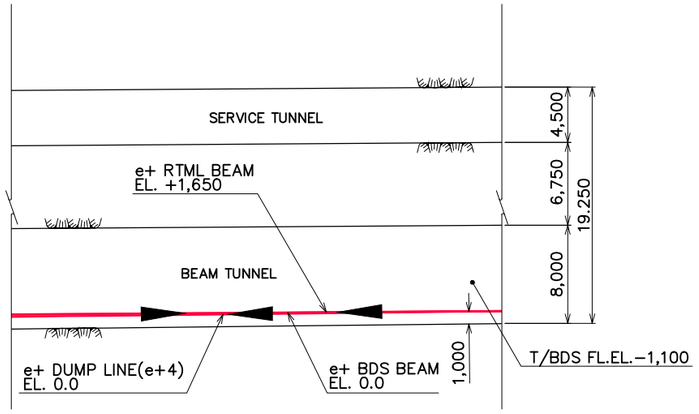
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 02	KEK	DRAWING NO. U - 14	REVISION
			SCALE 1/2,000, 1/500	DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
1/500

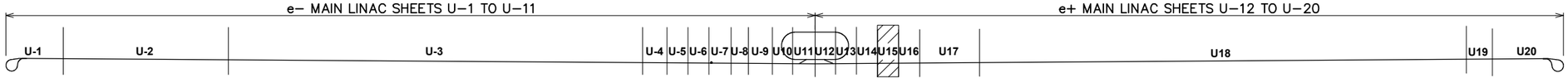


DETAIL 'B'
1/500

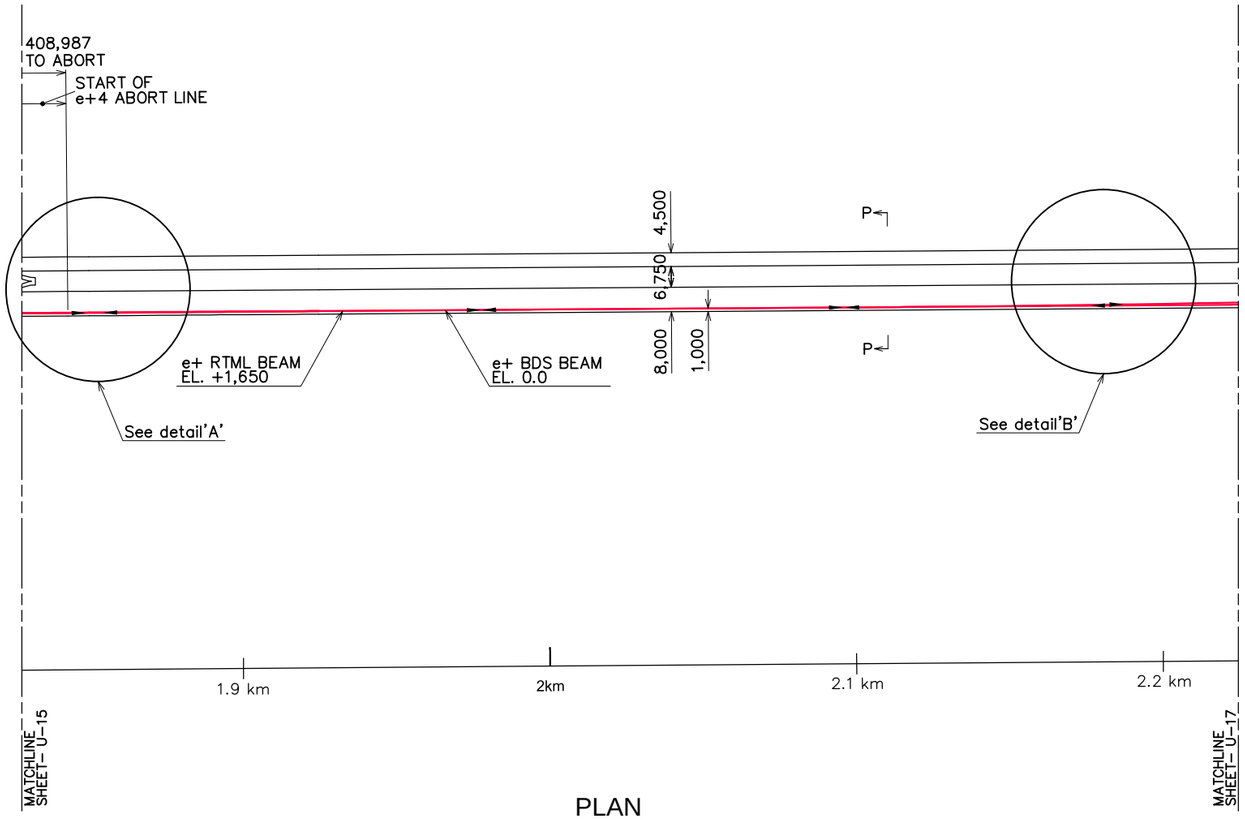
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

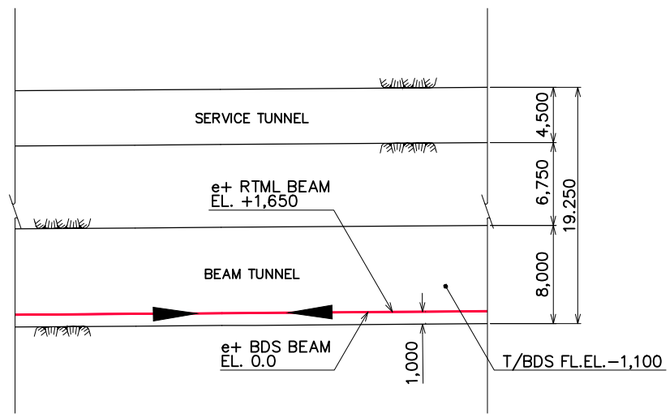
0 100m
PLAN
0 25m
DETAIL



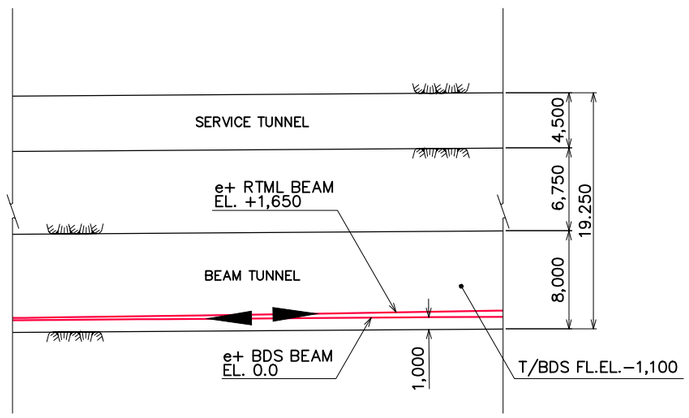
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 03	KEK	DRAWING NO. U - 15	REVISION
			SCALE 1/2,000, 1/500	DATE 30 Nov. 2012



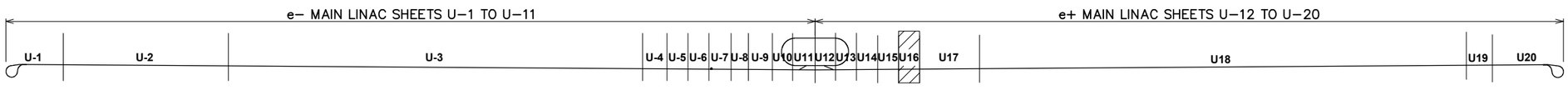
PLAN
1/2,000



DETAIL 'A'
1/500



DETAIL 'B'
1/500



NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION -1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

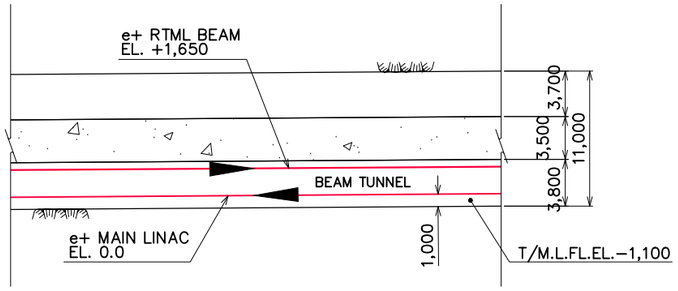
LEGEND
DR
-e ELECTRON
+e POSITRON

0 100m
PLAN
0 25m
DETAIL

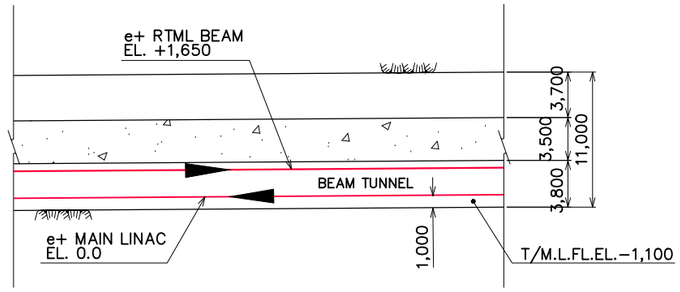
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 04	KEK	DRAWING NO. U - 16 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

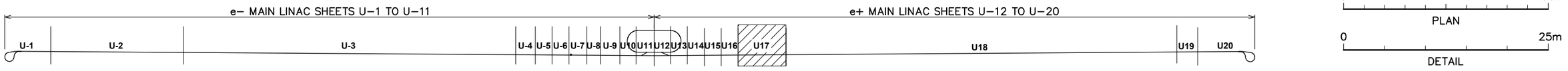


DETAIL 'A'
1/500



DETAIL 'B'
1/500

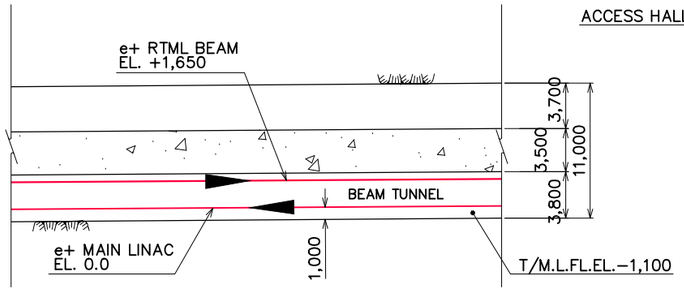
PLAN
1/2,000



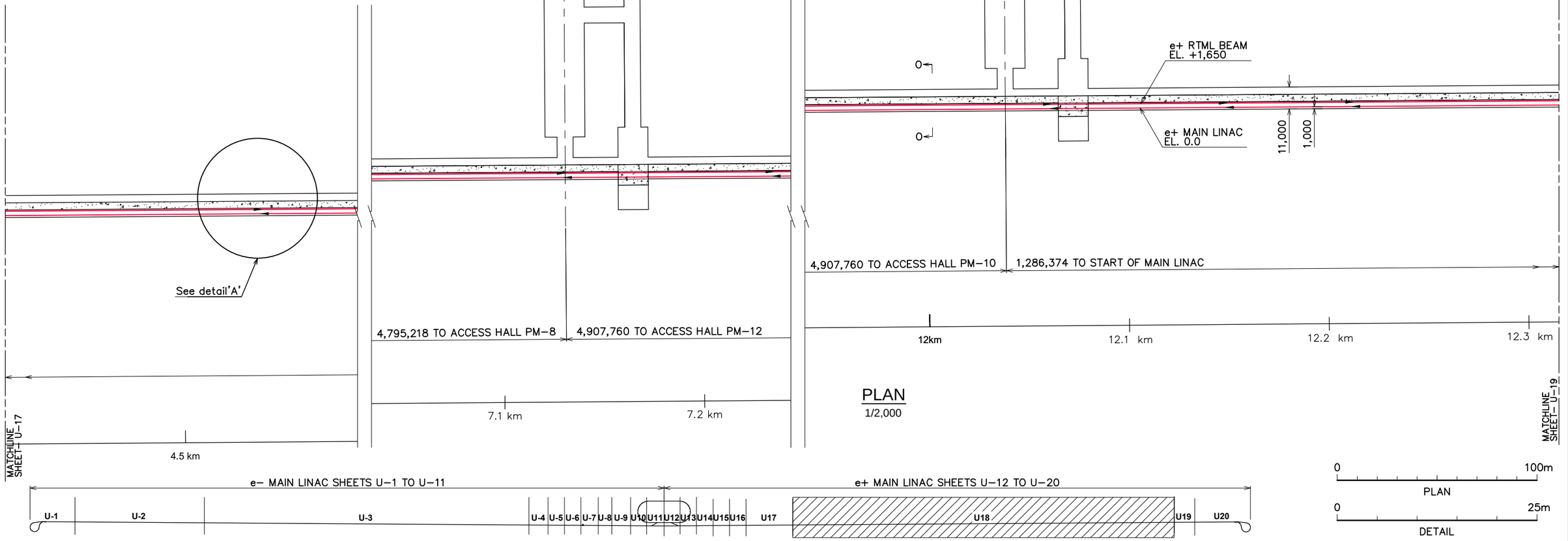
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 05	KEK	DRAWING NO. U - 17	REVISION
			SCALE 1/2,000, 1/500	DATE 30 Nov. 2012

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON



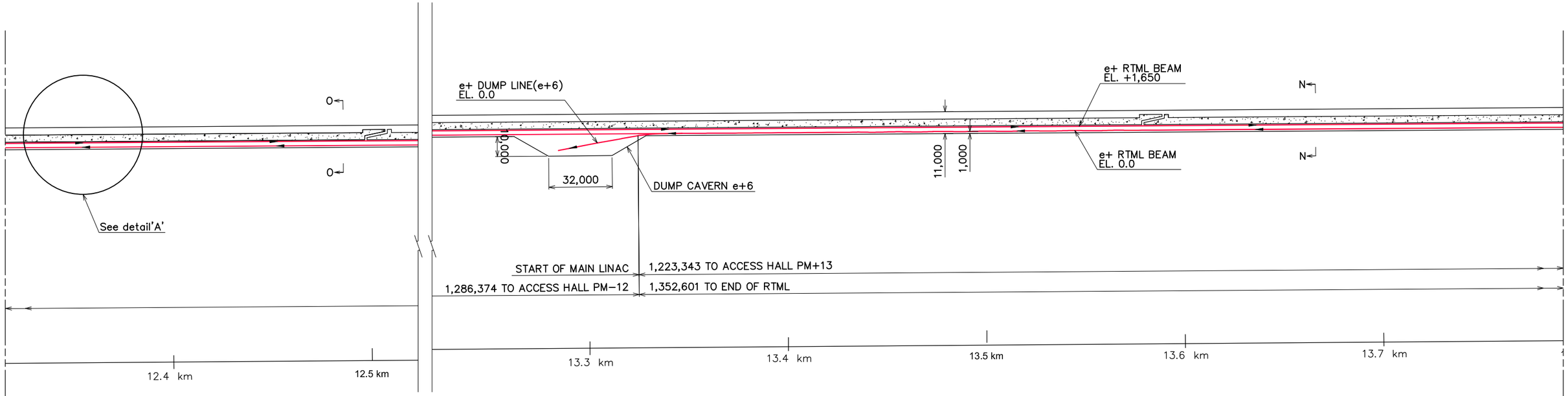
DETAIL 'A'
1/500



PLAN
1/2,000

0 100m
PLAN
0 25m
DETAIL

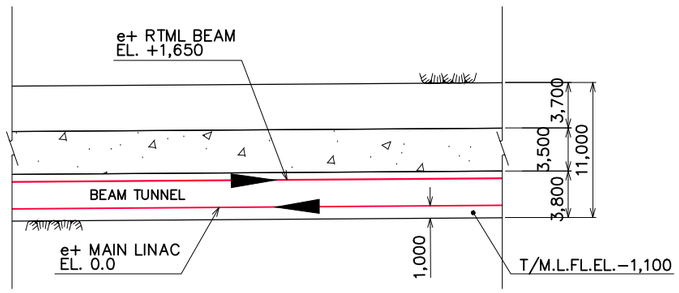
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 06	KEK	DRAWING NO. U - 18 / SCALE 1/2,000, 1/500	REVISION / DATE 30 Nov. 2012



PLAN
1/2,000

MATCHLINE SHEET− U−18

MATCHLINE SHEET− U−20

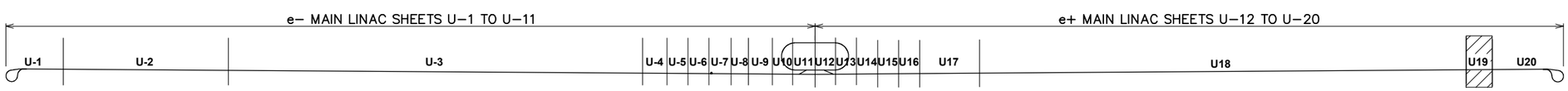


DETAIL 'A'
1/500

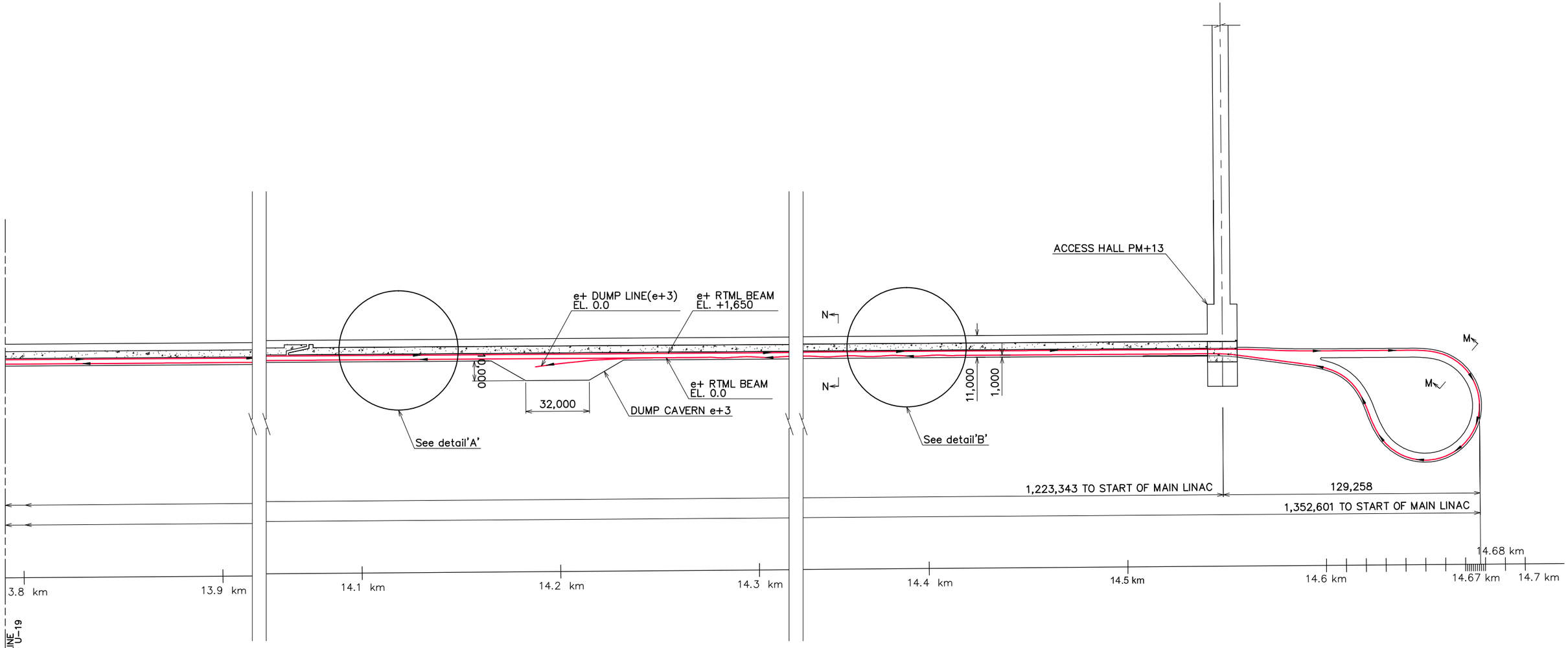
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

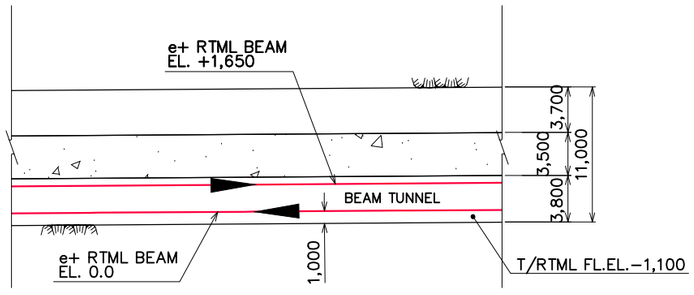
0 100m
PLAN
0 25m
DETAIL



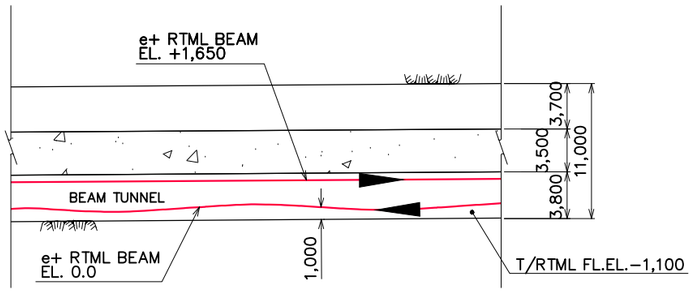
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 07	KEK	DRAWING NO. U - 19 / REVISION SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



PLAN
1/2,000



DETAIL 'A'
1/500

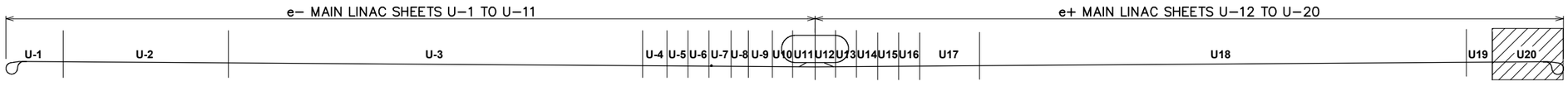


DETAIL 'B'
1/500

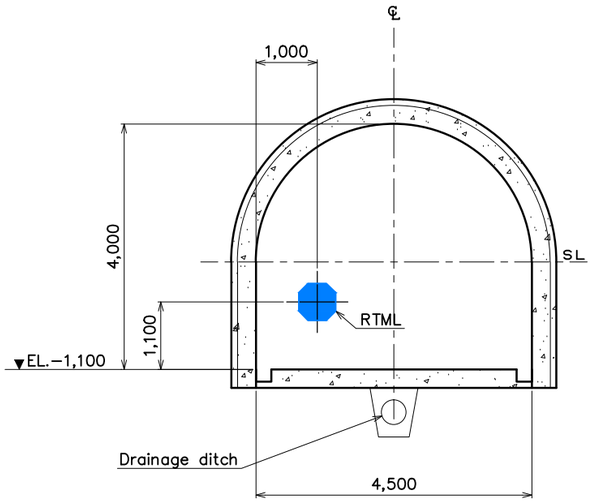
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- –e ELECTRON
- +e POSITRON

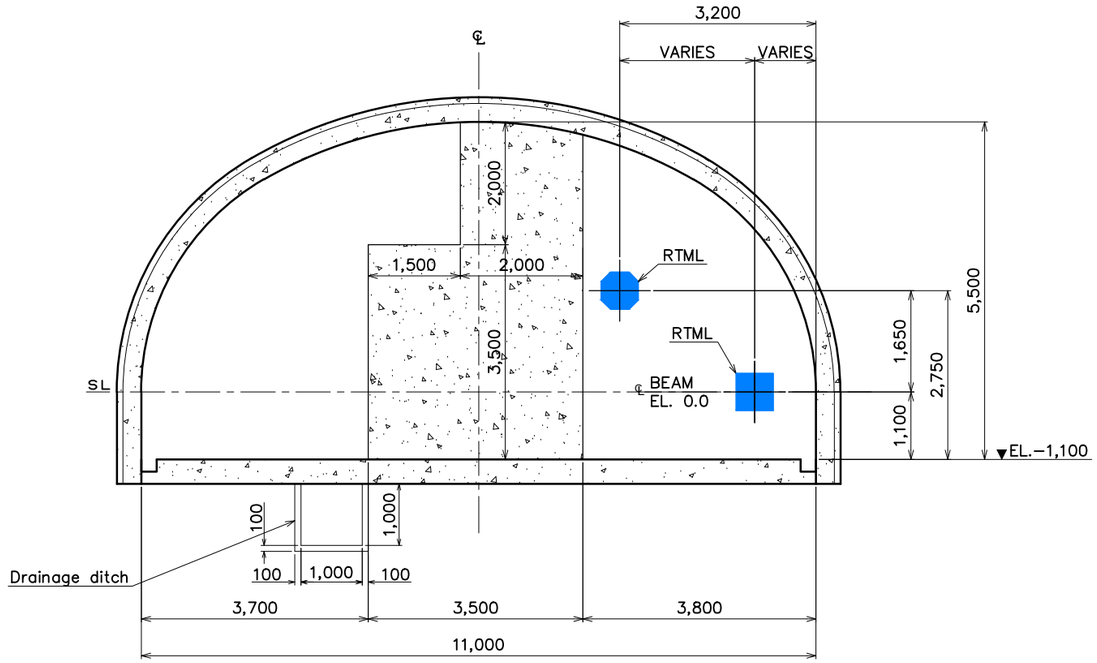
0 100m
PLAN
0 25m
DETAIL



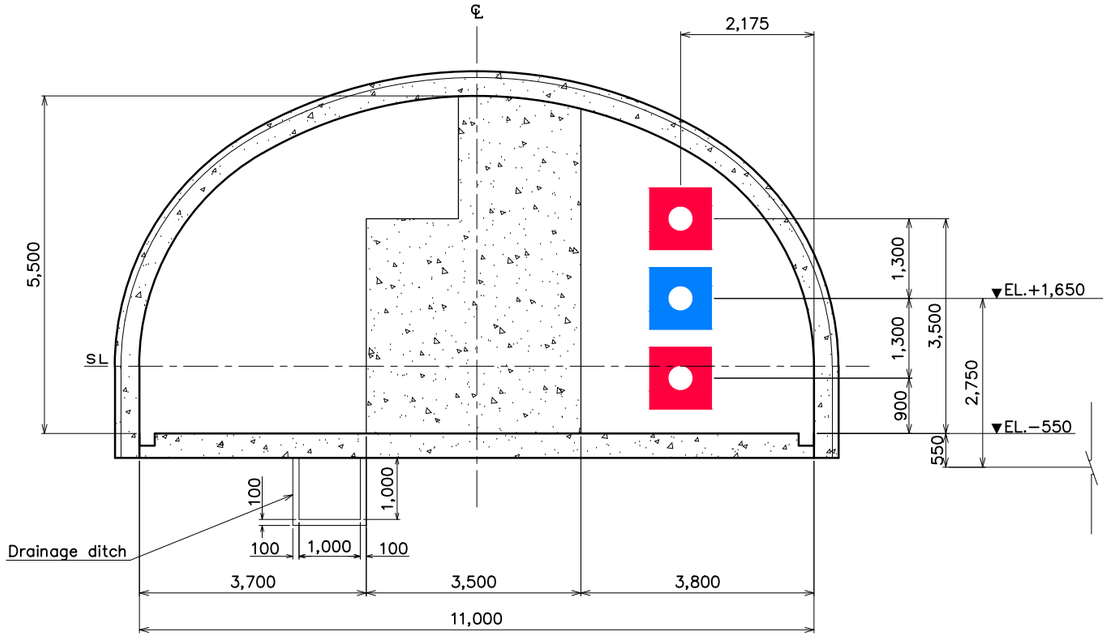
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - PLAN SHT. - 08	KEK	DRAWING NO. U - 20 / REVISION
			SCALE 1/2,000, 1/500 / DATE 30 Nov. 2012



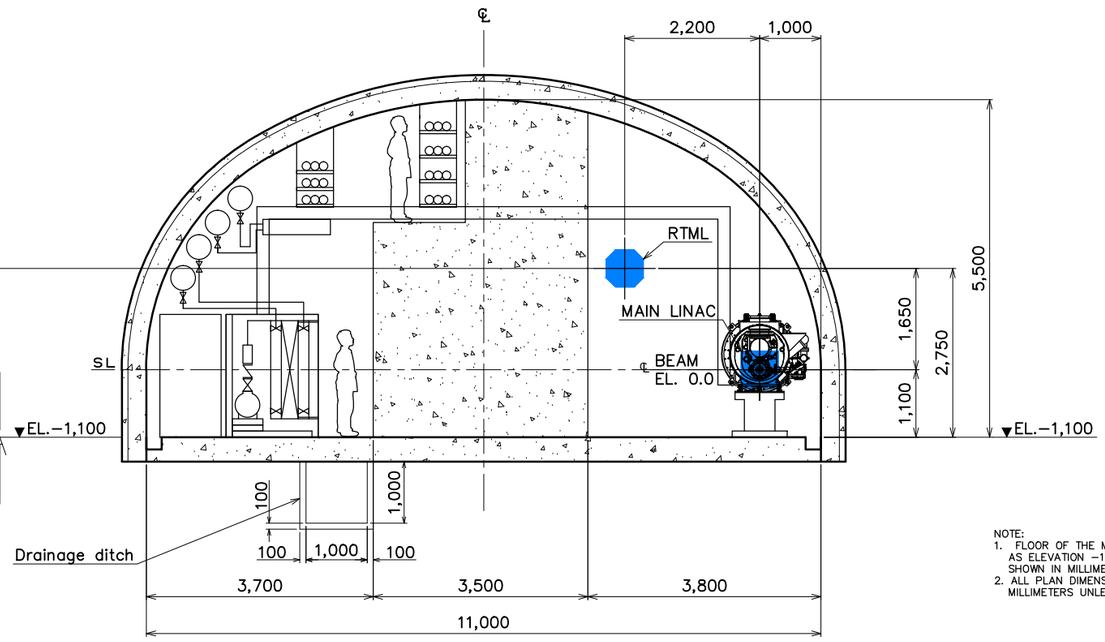
Section A-A



Section B-B



Damping Ring (Shown For Reference Only)



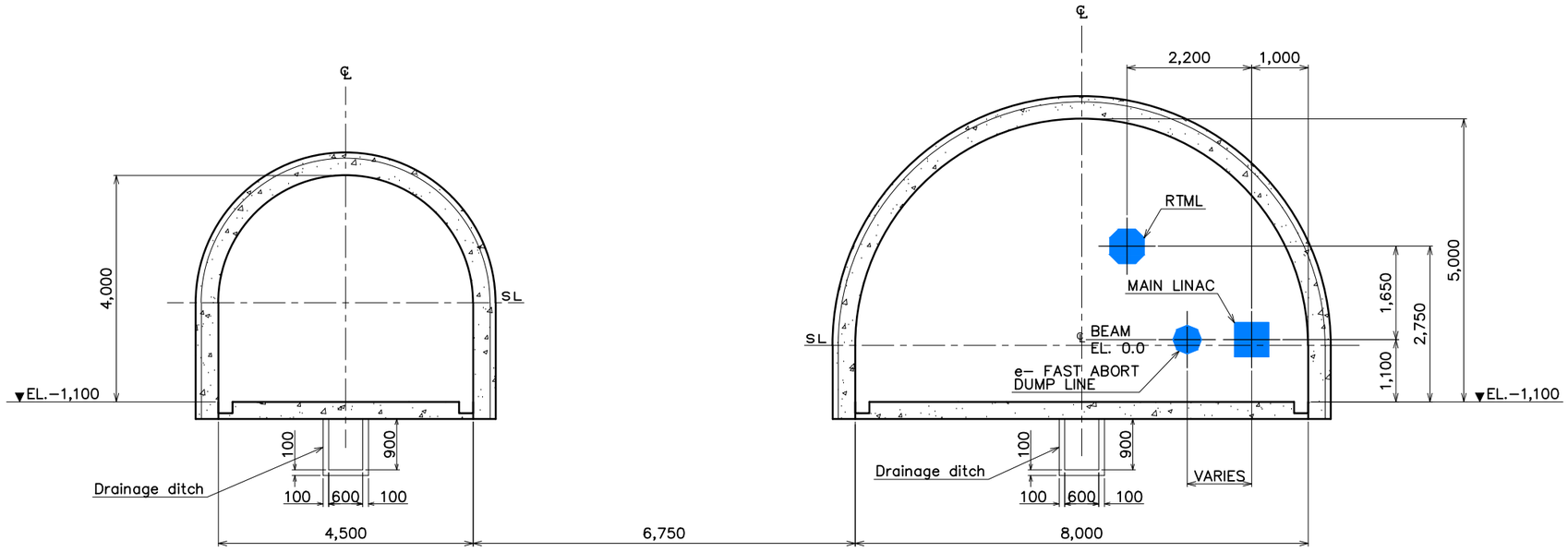
Section C-C

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

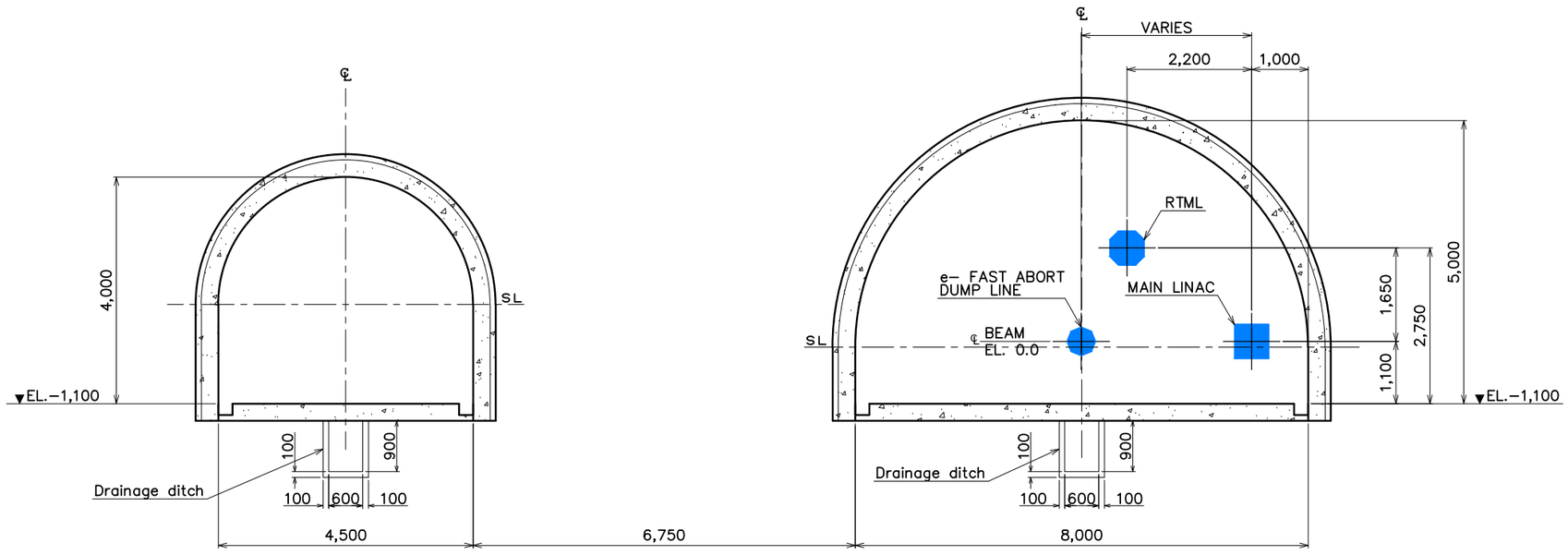
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - SECTIONS SHT. - 01	KEK	DRAWING NO. U - 21	REVISION
			SCALE 1/100	DATE 30 Nov. 2012



Section D-D



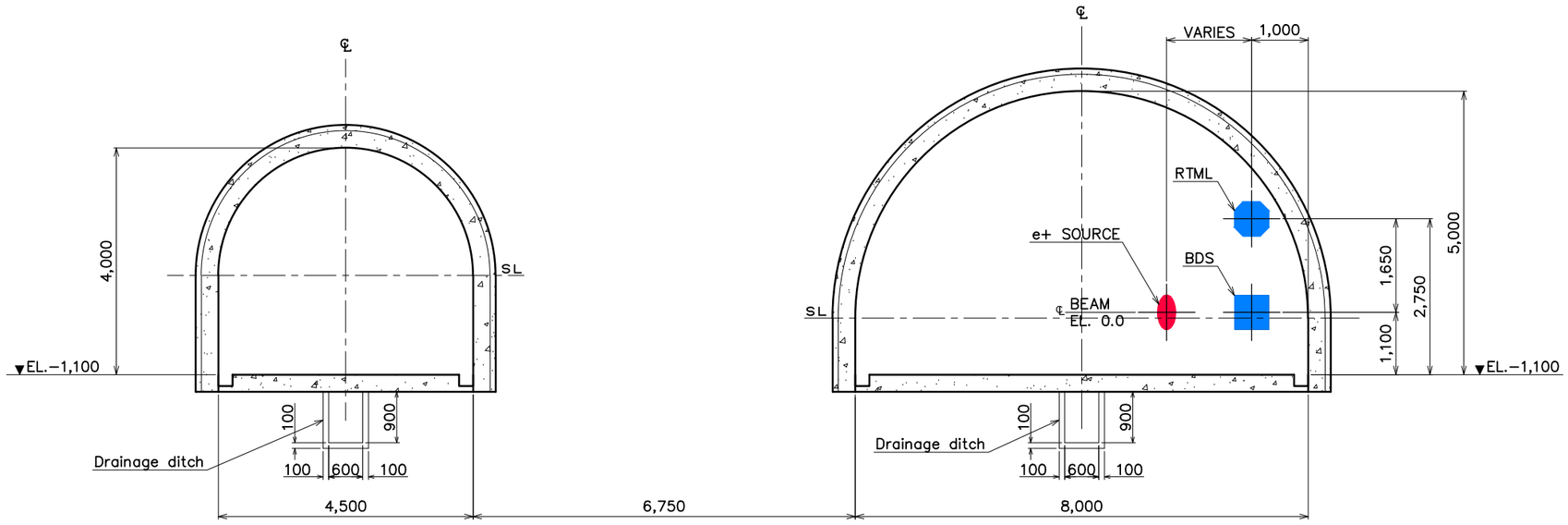
Section E-E

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

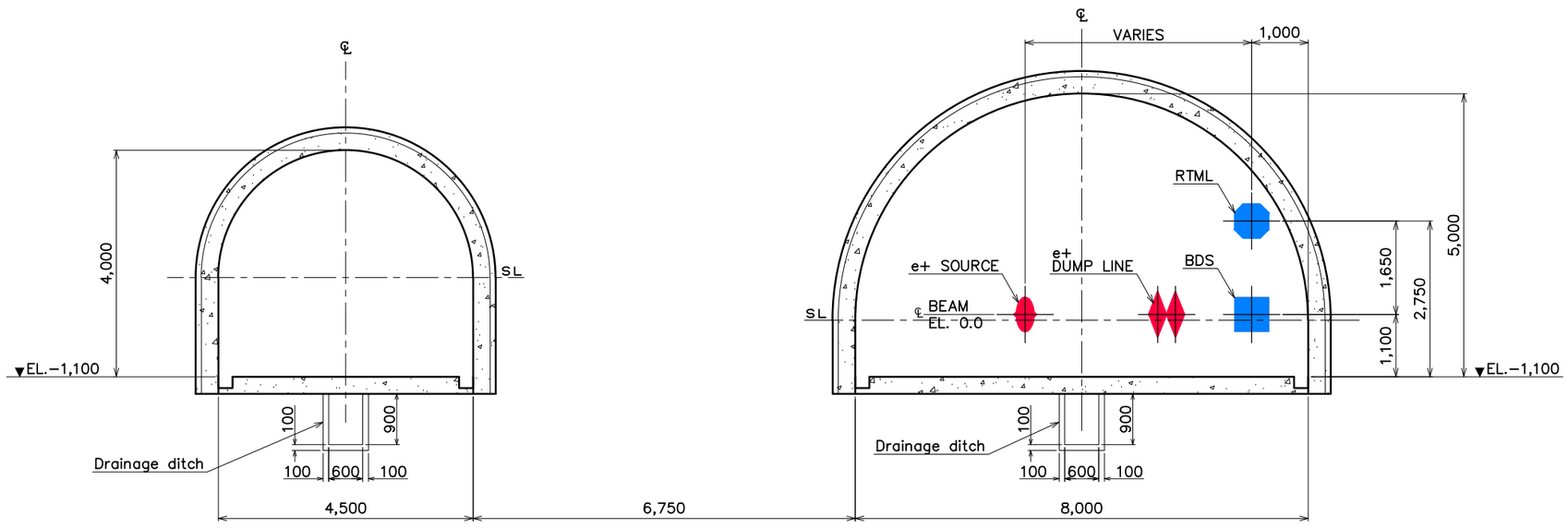
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - SECTIONS SHT. - 02	KEK	DRAWING NO. U - 22 / REVISION SCALE 1/100 / DATE 30 Nov. 2012



Section F-F



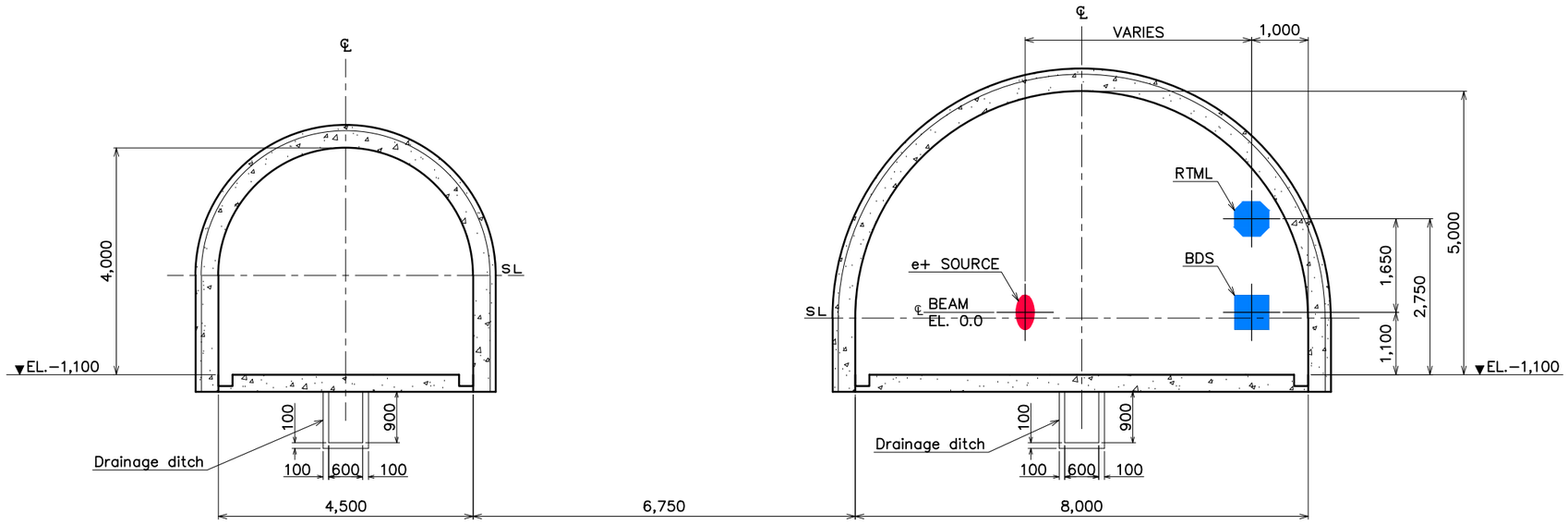
Section G-G

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

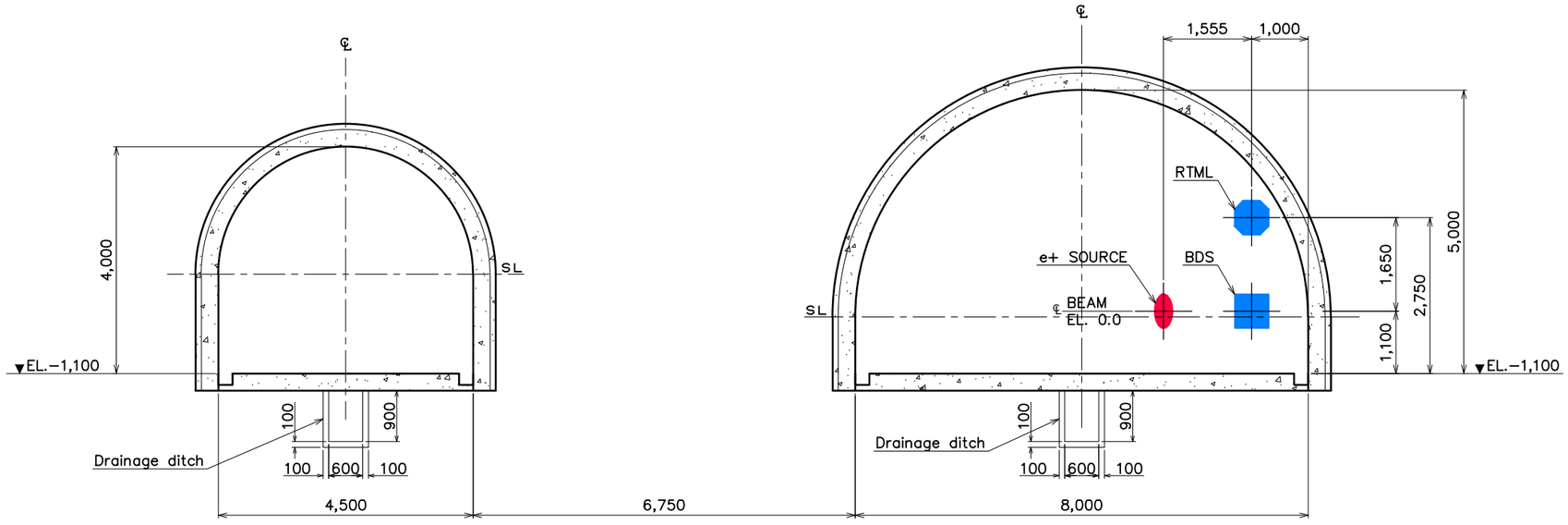
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - SECTIONS SHT. - 03	KEK	DRAWING NO. U - 23 / SCALE 1/100	REVISION / DATE 30 Nov. 2012



Section H-H



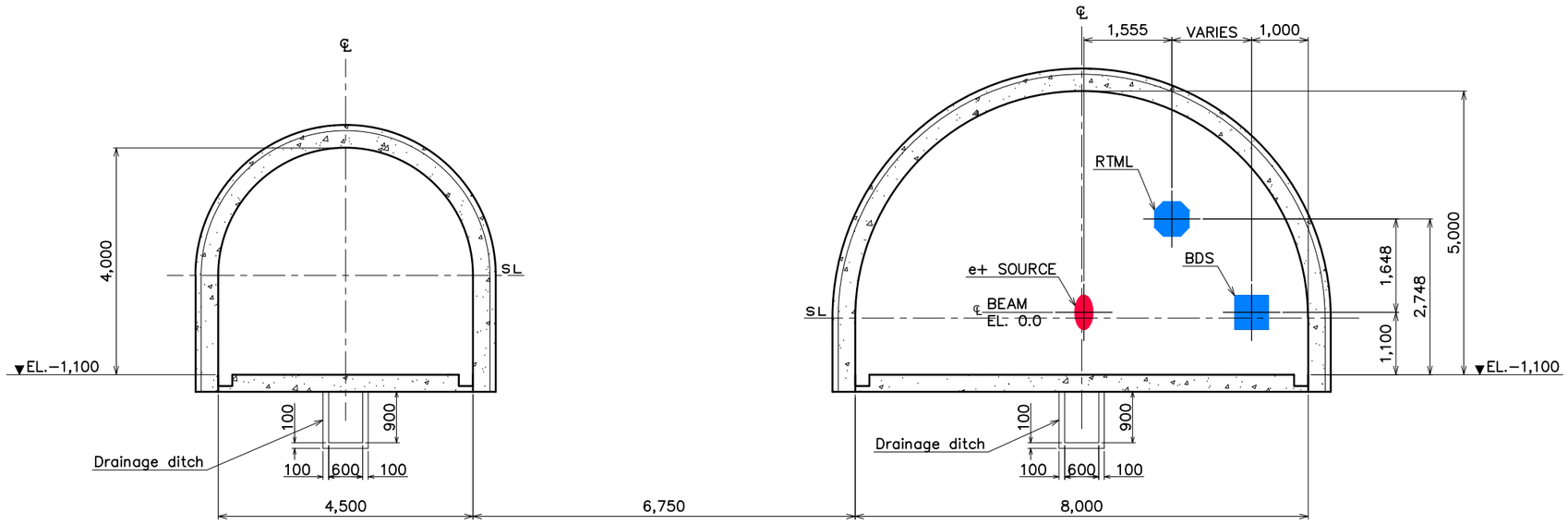
Section I-I

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

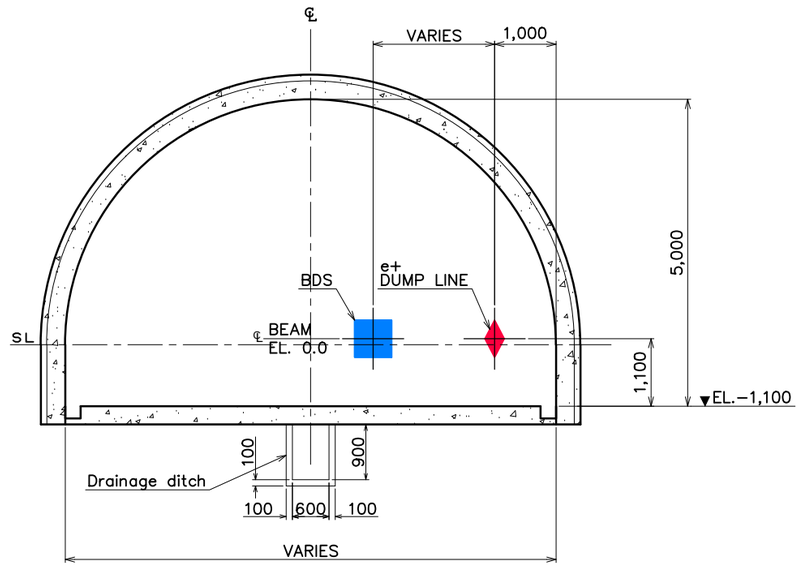
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - SECTIONS SHT. - 04	KEK	DRAWING NO. U - 24 / SCALE 1/100	REVISION / DATE 30 Nov. 2012



Section J-J



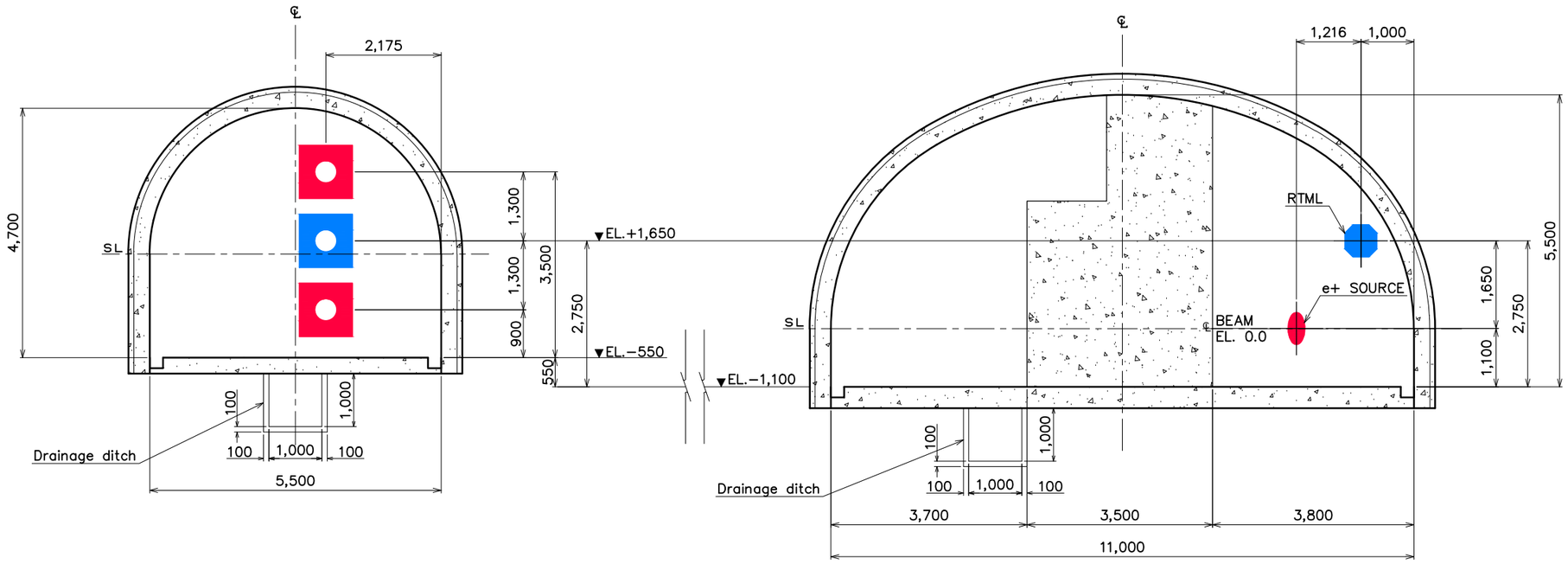
Section K-K

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e- UNDERGROUND STRUCTURES - SECTIONS SHT. - 05	KEK	DRAWING NO. U - 25 / SCALE 1/100	REVISION / DATE 30 Nov. 2012



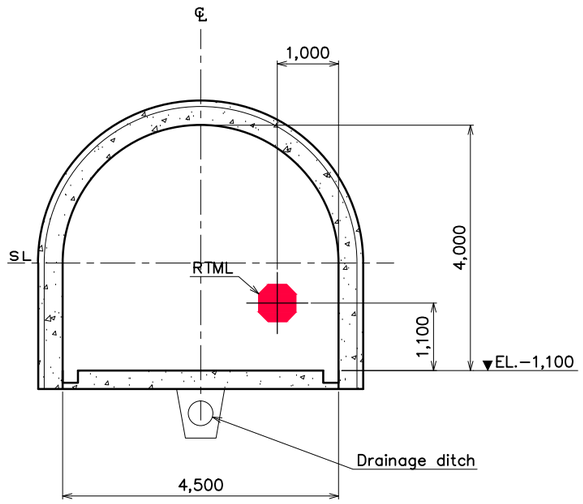
Section L-L

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

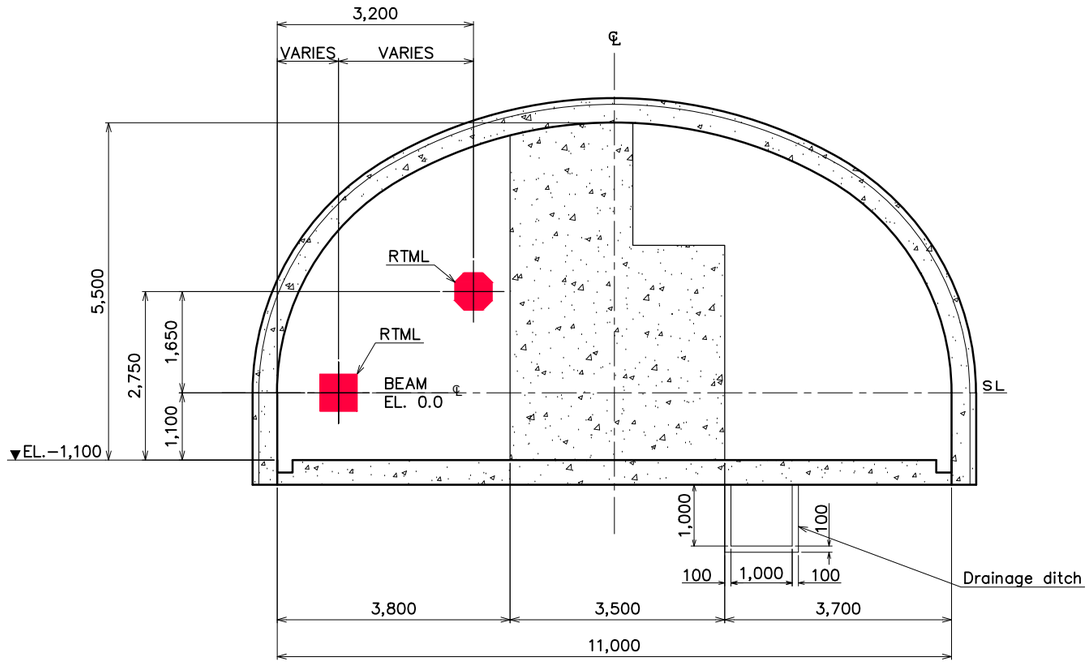
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **e+ UNDERGROUND STRUCTURES - SECTIONS SHT. - 01**	KEK	**DRAWING NO.** U - 26	**REVISION**
				SCALE 1/100	**DATE 30 Nov. 2012**

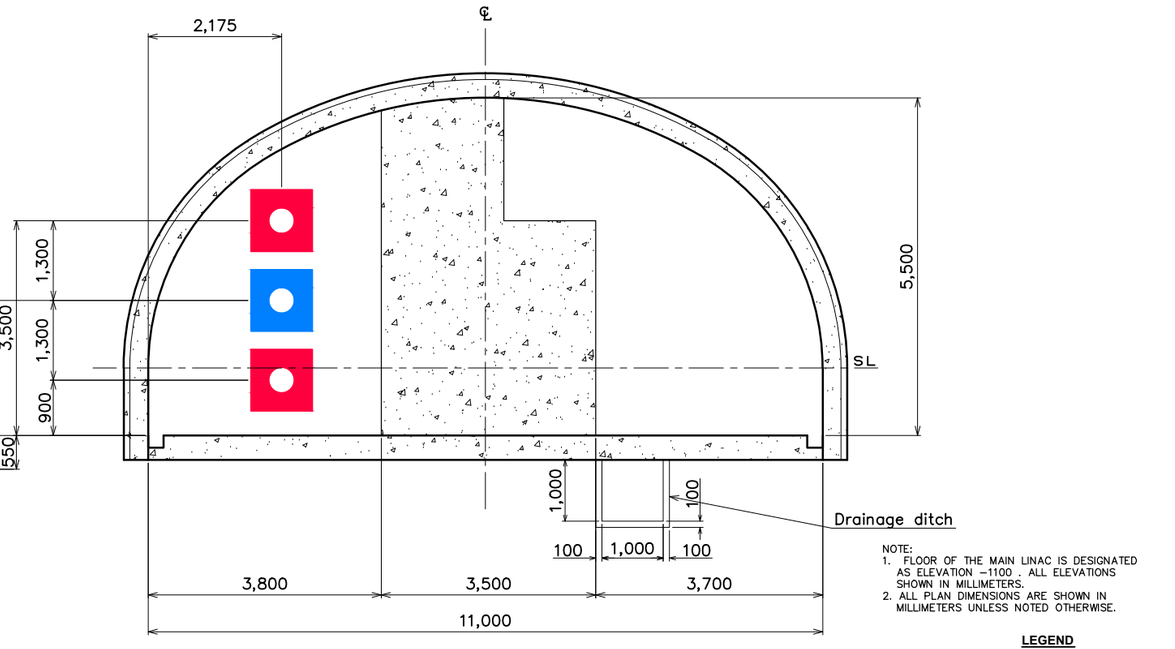


Section M-M



Section N-N

Section O-O



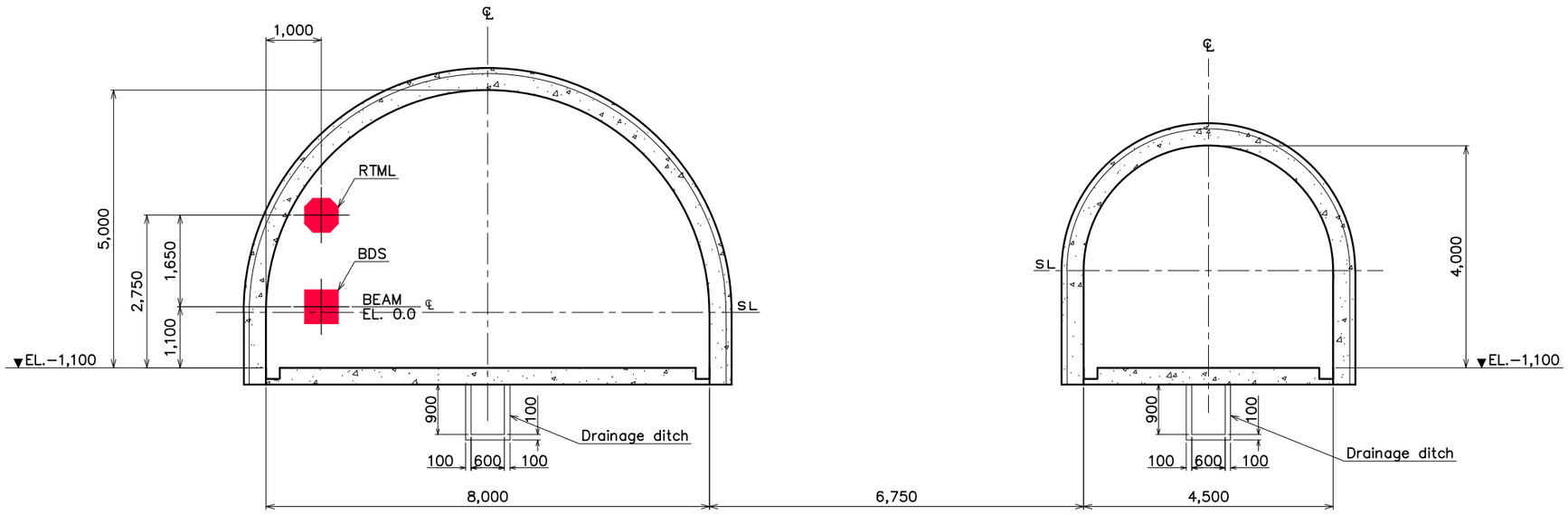
Damping Ring (Shown For Reference Only)

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

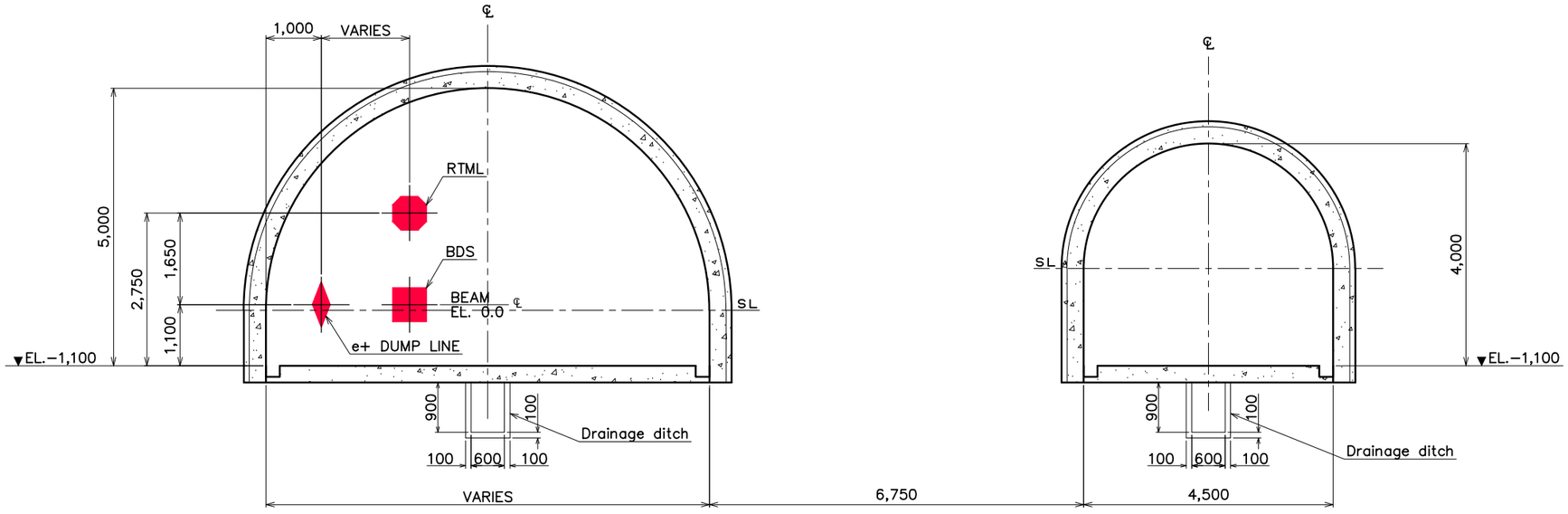
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT **ASIA REGION**	**ASIAN ILC BASIS OF COST** **e+ UNDERGROUND STRUCTURES - SECTIONS SHT. - 02**	KEK	**DRAWING NO.** U - 27	**REVISION**
			SCALE 1/100	**DATE** 30 Nov. 2012



Section P-P



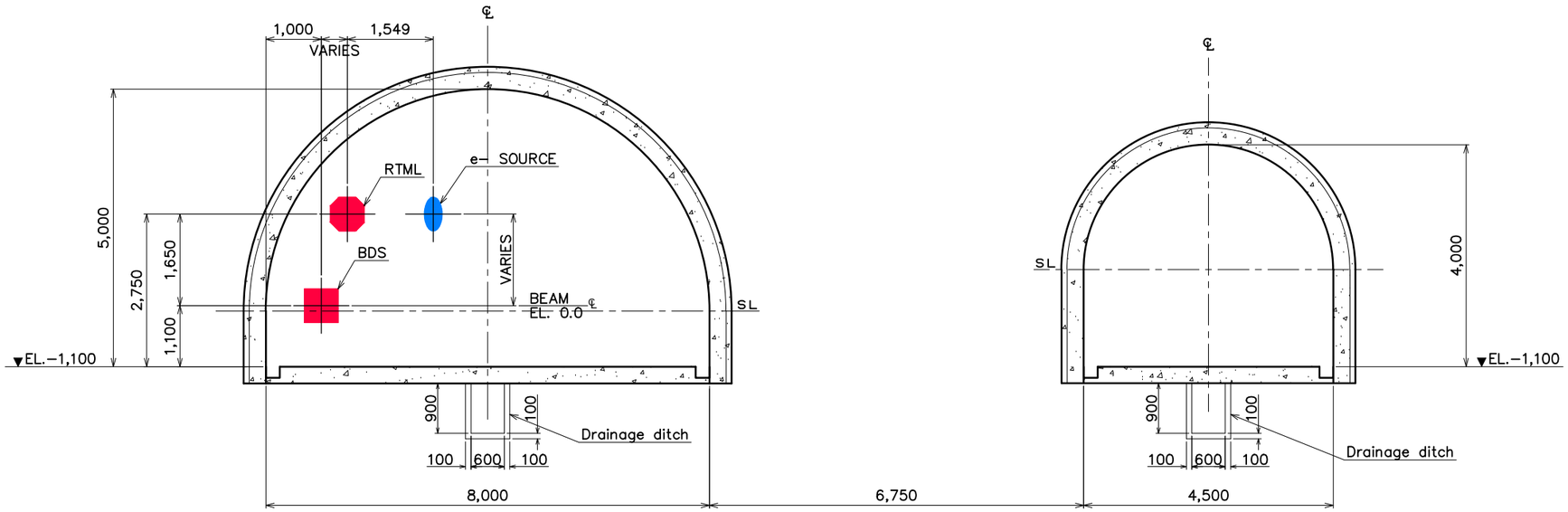
Section Q-Q

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

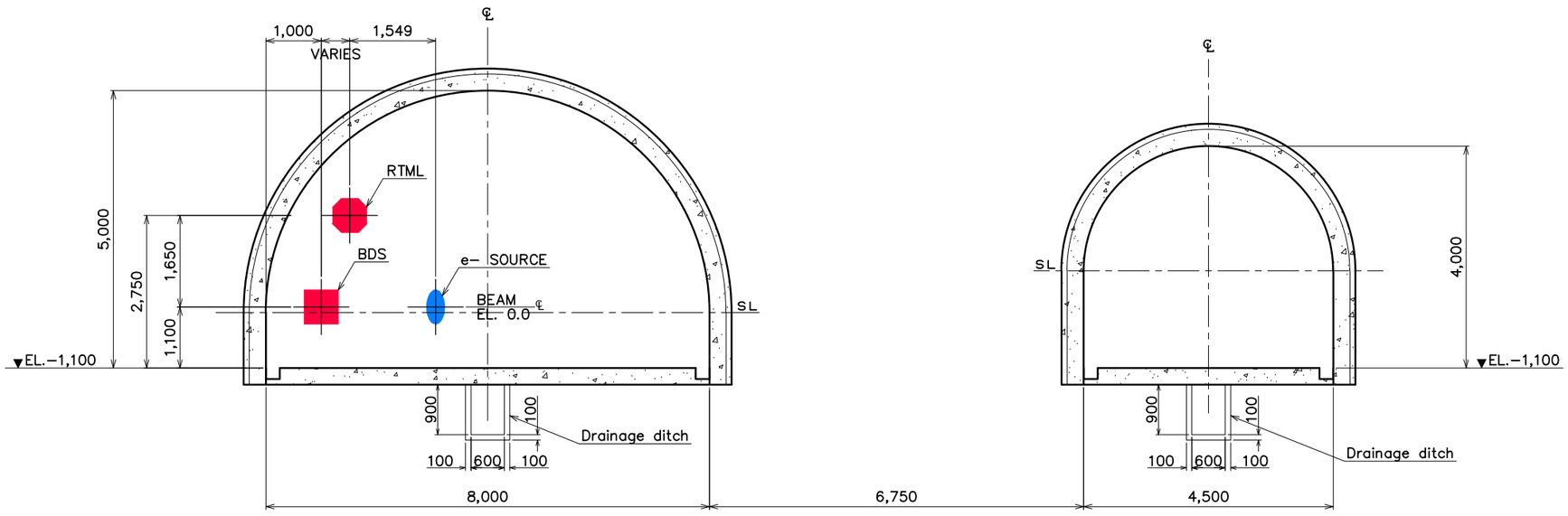
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - SECTIONS SHT. - 03	KEK	DRAWING NO. U - 28 / SCALE 1/100	REVISION / DATE 30 Nov. 2012



Section R-R



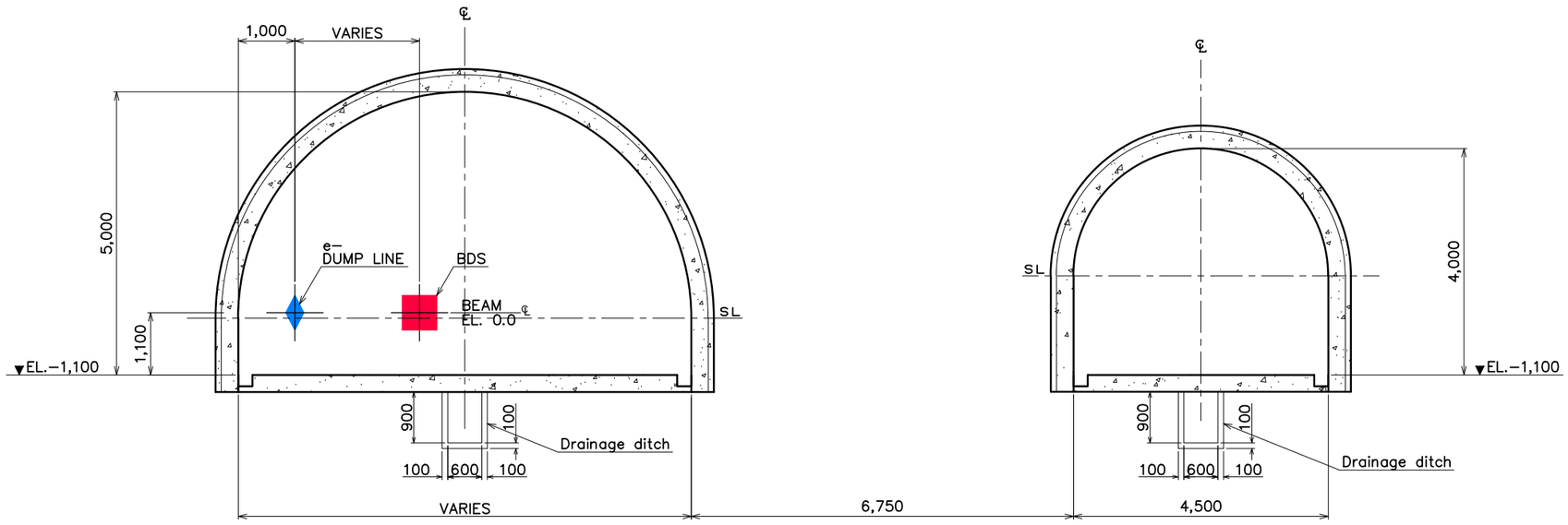
Section S-S

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION –1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

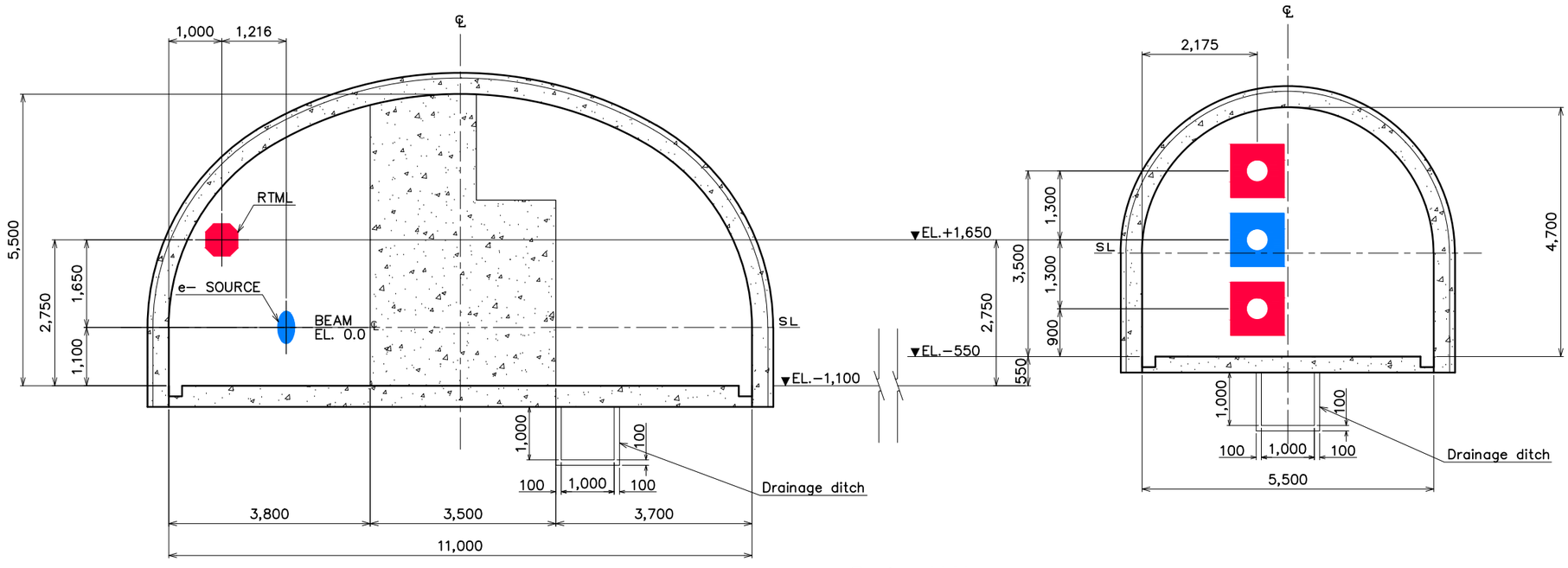
LEGEND
–e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - SECTIONS SHT. - 04	KEK	DRAWING NO. U - 29	REVISION
			SCALE 1/100	DATE 30 Nov. 2012



Section T-T



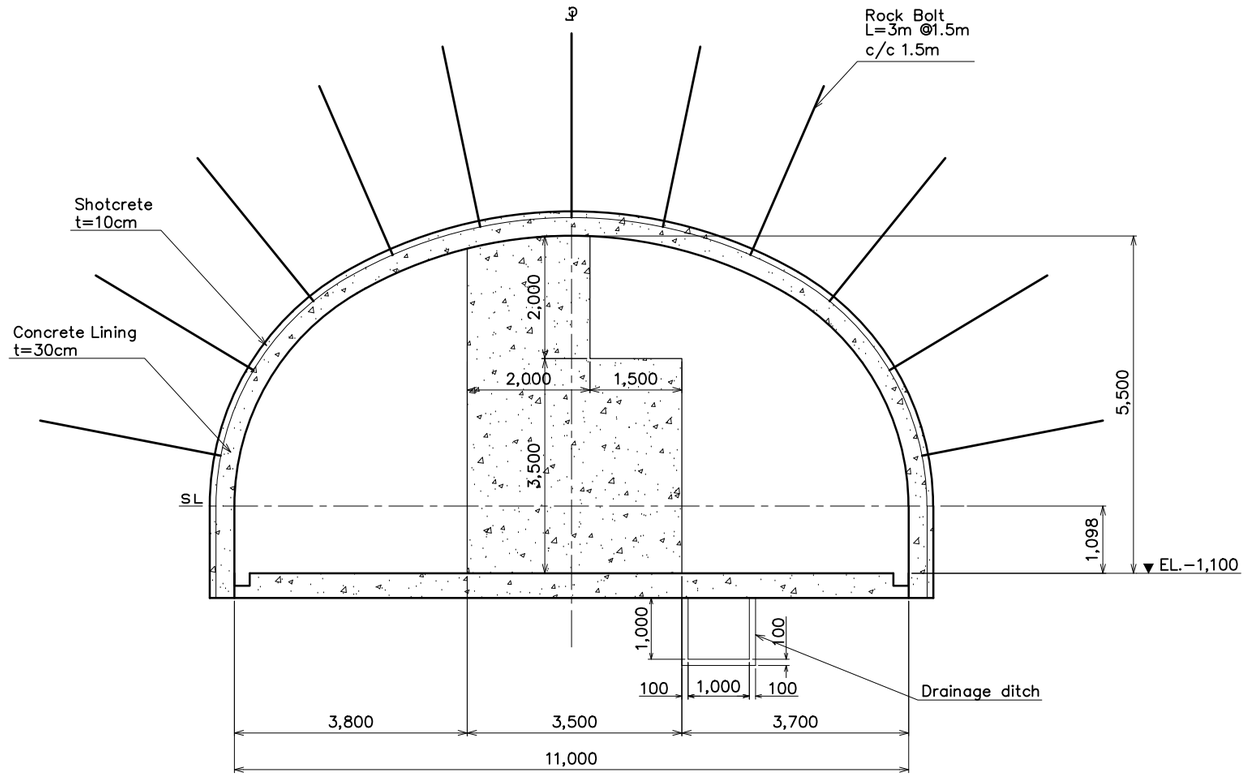
Section U-U

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

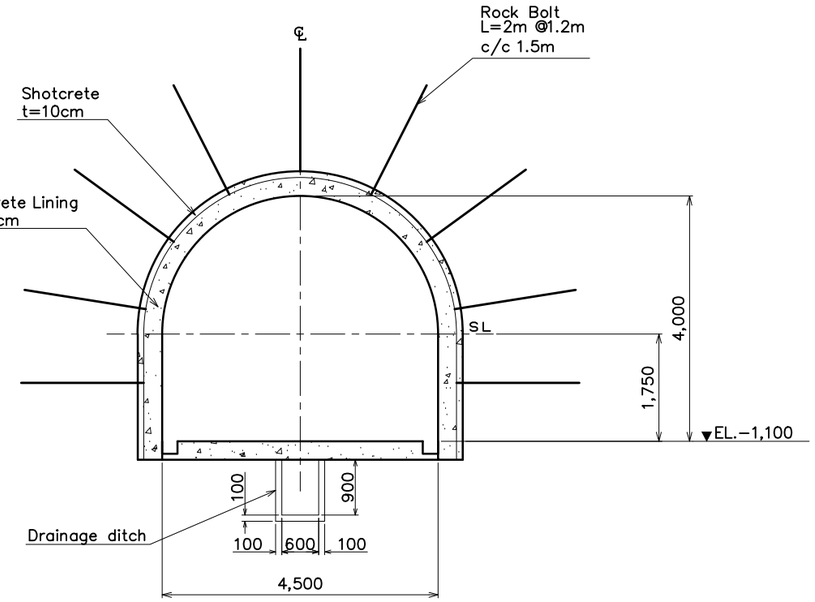
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST e+ UNDERGROUND STRUCTURES - SECTIONS SHT. - 05	KEK	DRAWING NO. U - 30 / REVISION SCALE 1/100 / DATE 30 Nov. 2012



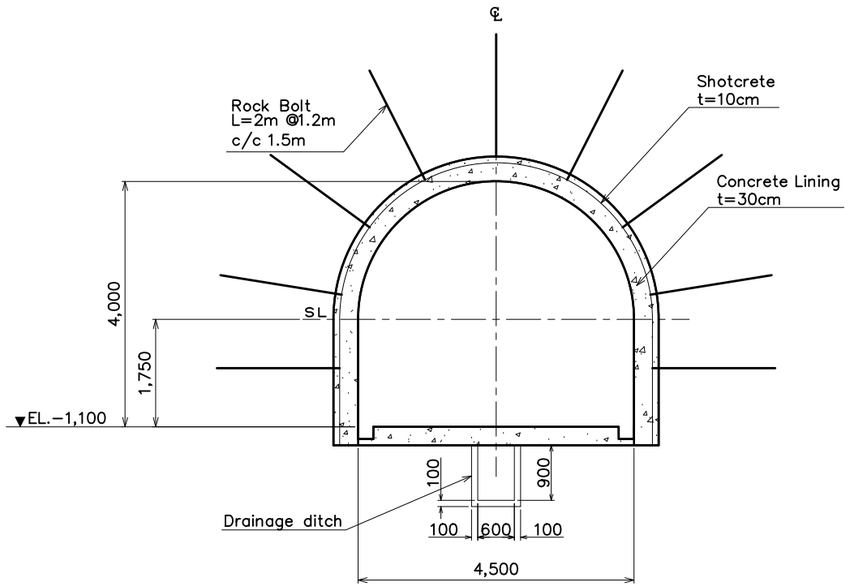
Main Linac Tunnel



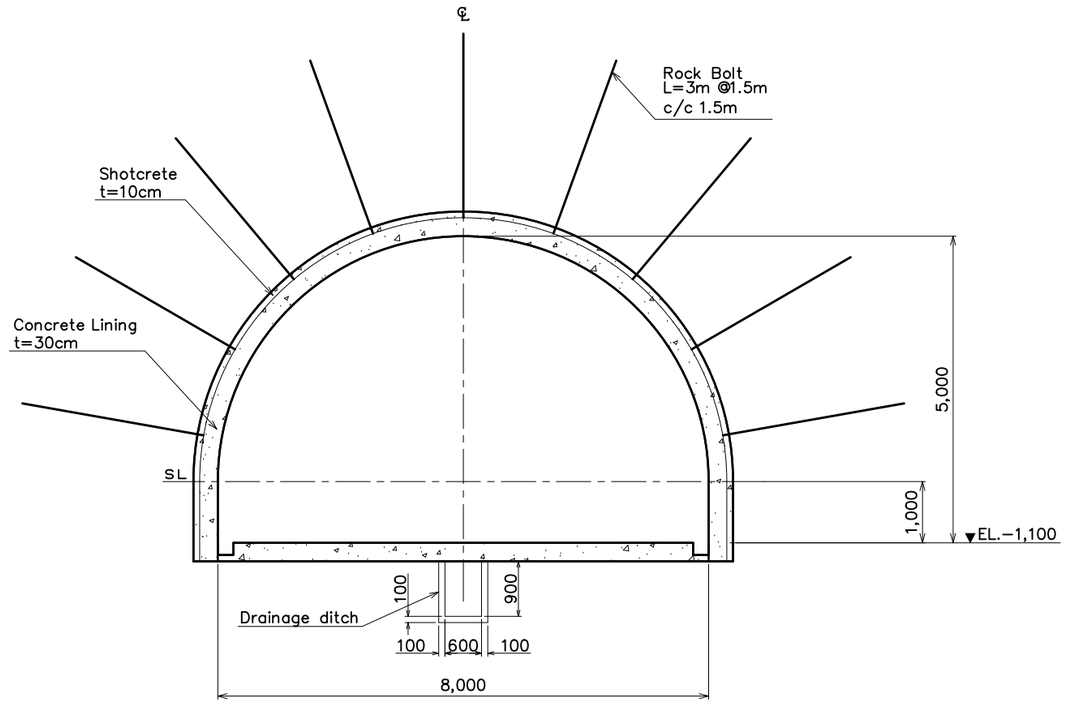
RTML Tunnel

0 5m

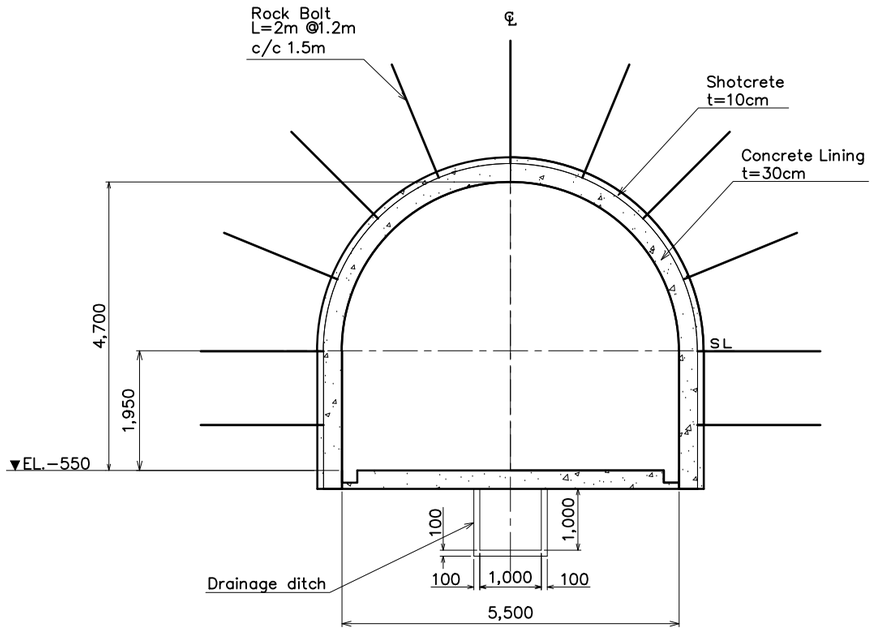
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST TUNNEL - TYPICAL SECTIONS SHT. - 01	KEK	DRAWING NO. U - 31	REVISION
			SCALE 1/100	DATE 30 Nov. 2012



Service Tunnel



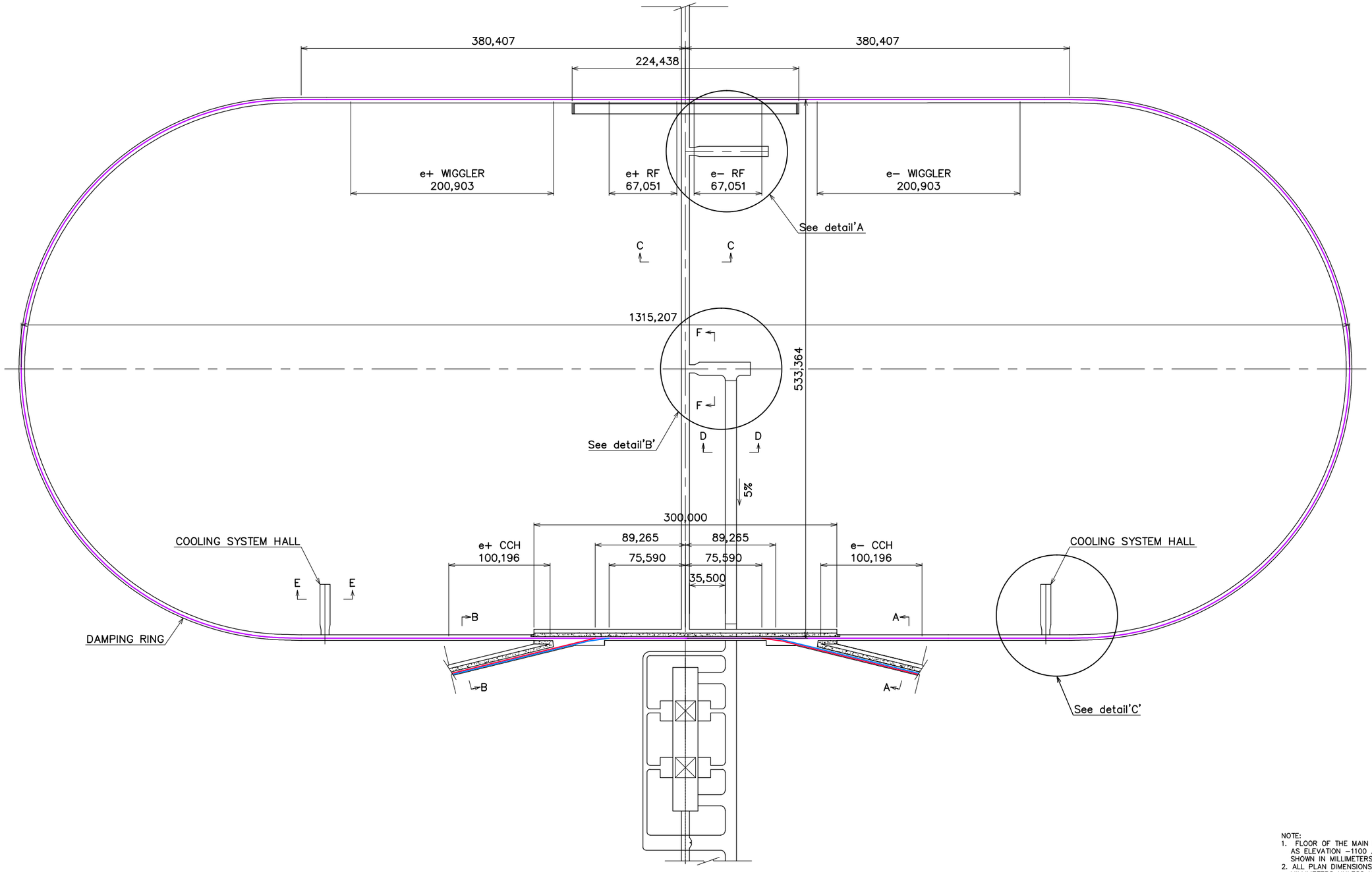
BDS Tunnel



Damping Ring Tunnel

0 5m

	GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST TUNNEL - TYPICAL SECTIONS SHT. - 02	KEK	DRAWING NO. U - 32 SCALE 1/100	REVISION DATE 30 Nov. 2012



Damping Ring-Plan

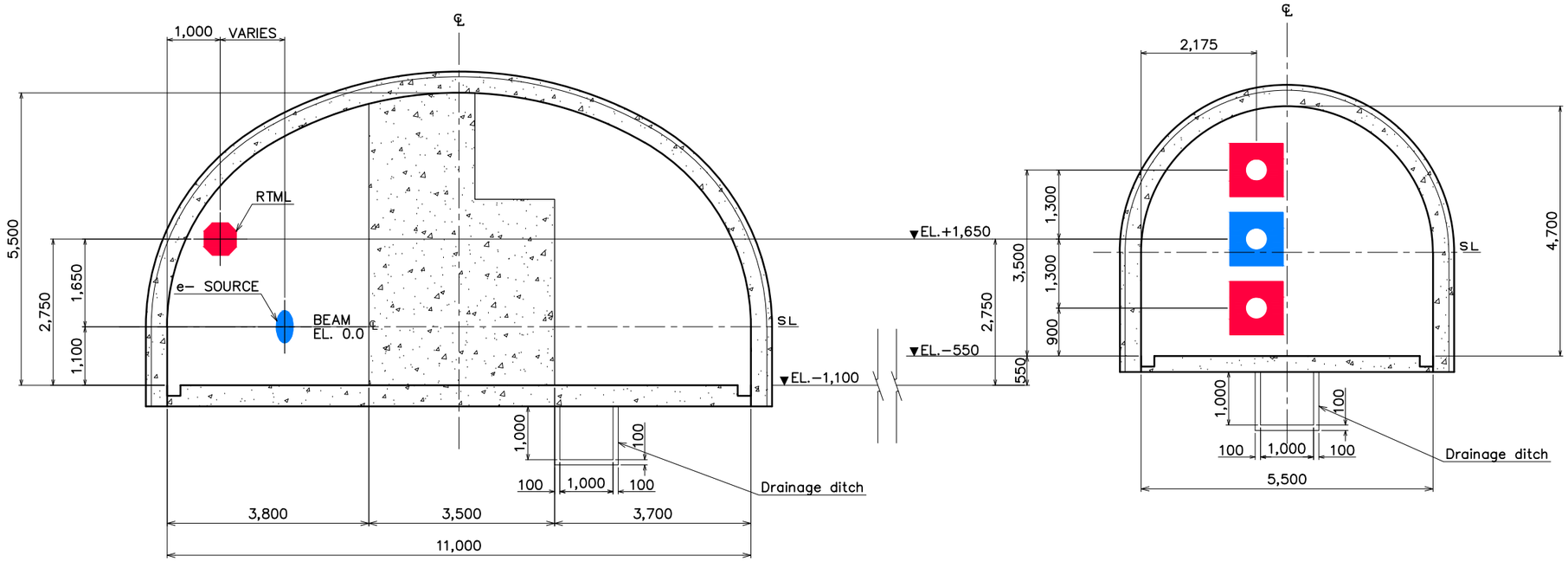
NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND
- DR
- −e ELECTRON
- +e POSITRON

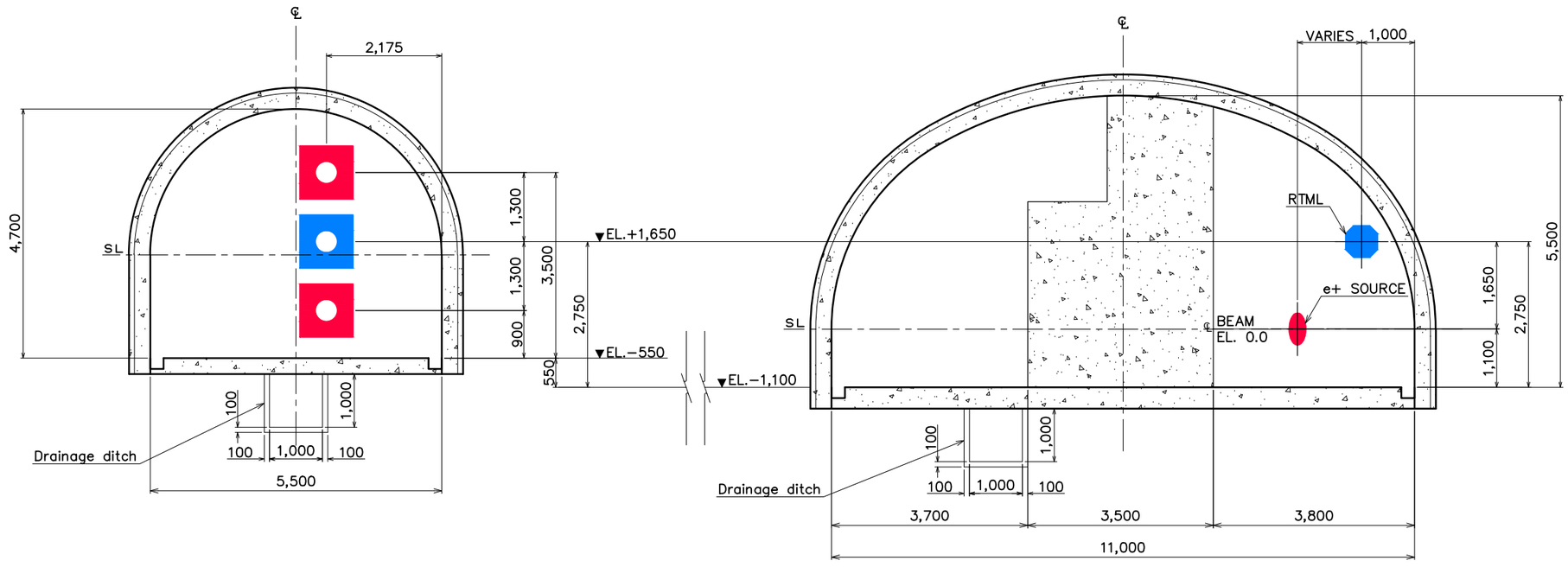
0 — 200m

PLAN

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DAMPING RING - PLAN	KEK	DRAWING NO. U - 33 / SCALE 1/4000	REVISION / DATE 30 Nov. 2012



Section A-A



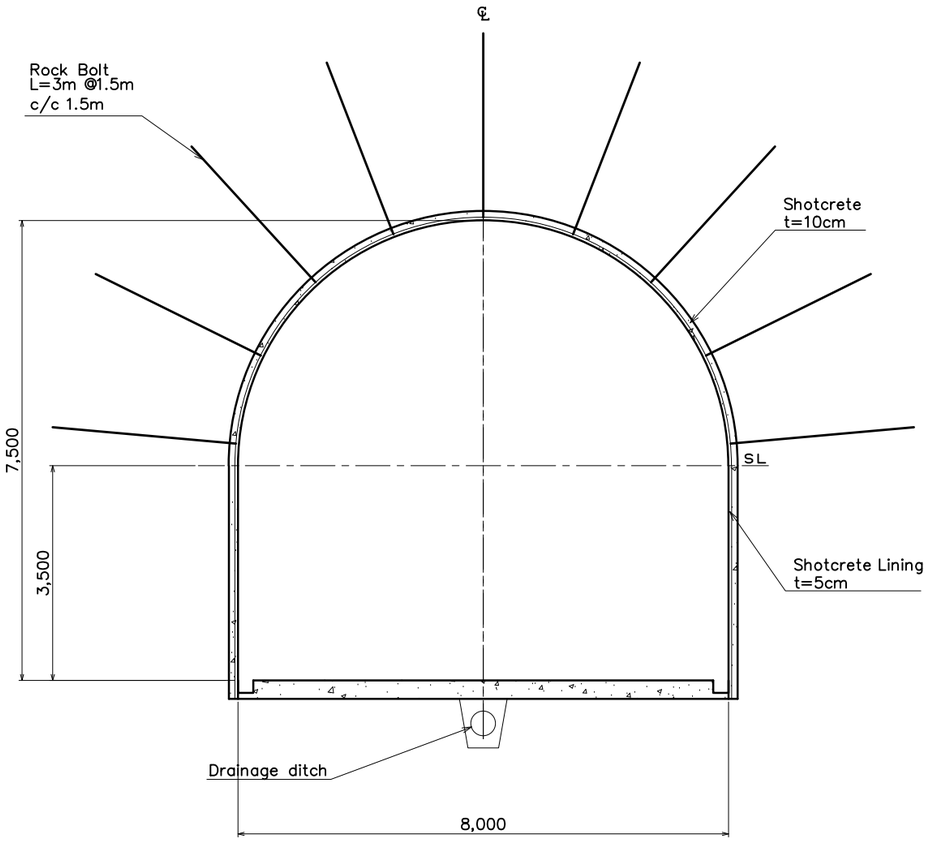
Section B-B

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

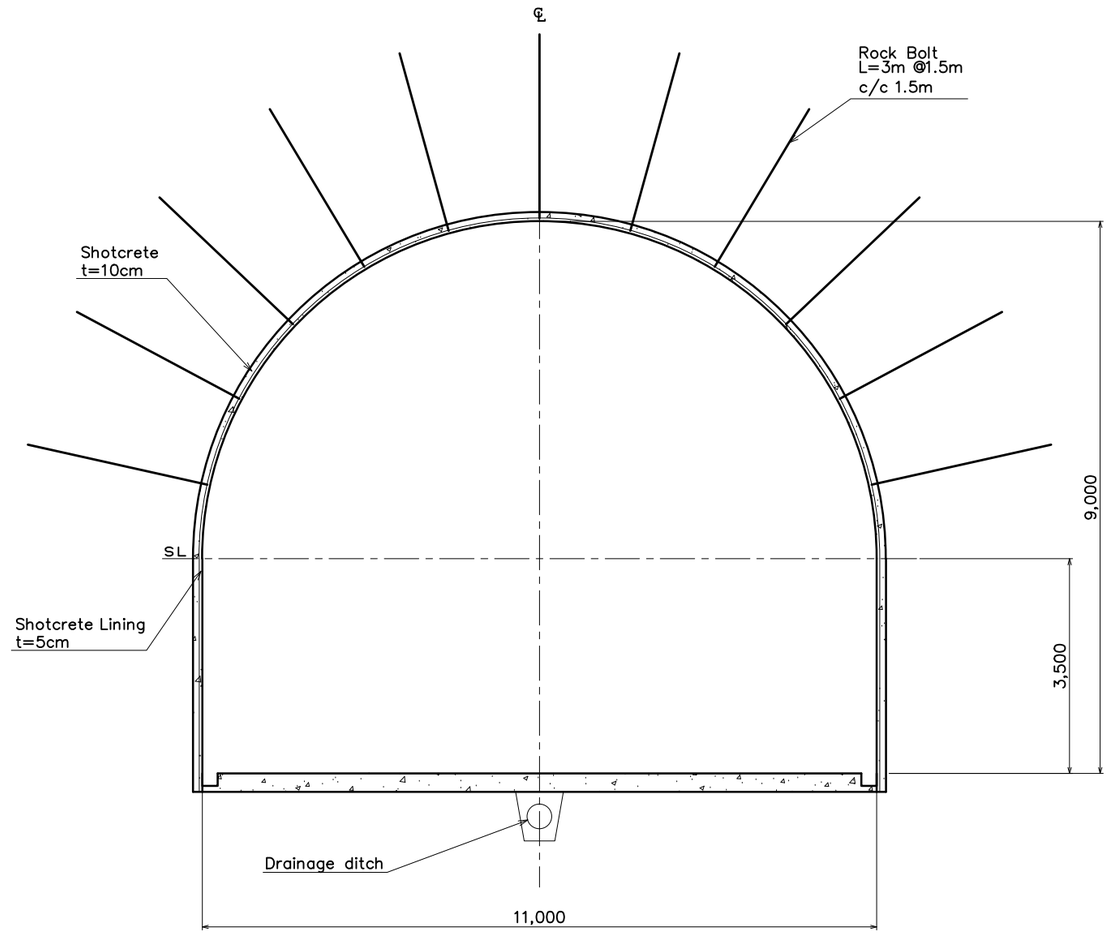
LEGEND
−e ELECTRON
+e POSITRON

0 5m
Section

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DAMPING RING - SECTIONS SHT. - 01	KEK	DRAWING NO. U - 34 / SCALE 1/100	REVISION / DATE 30 Nov. 2012



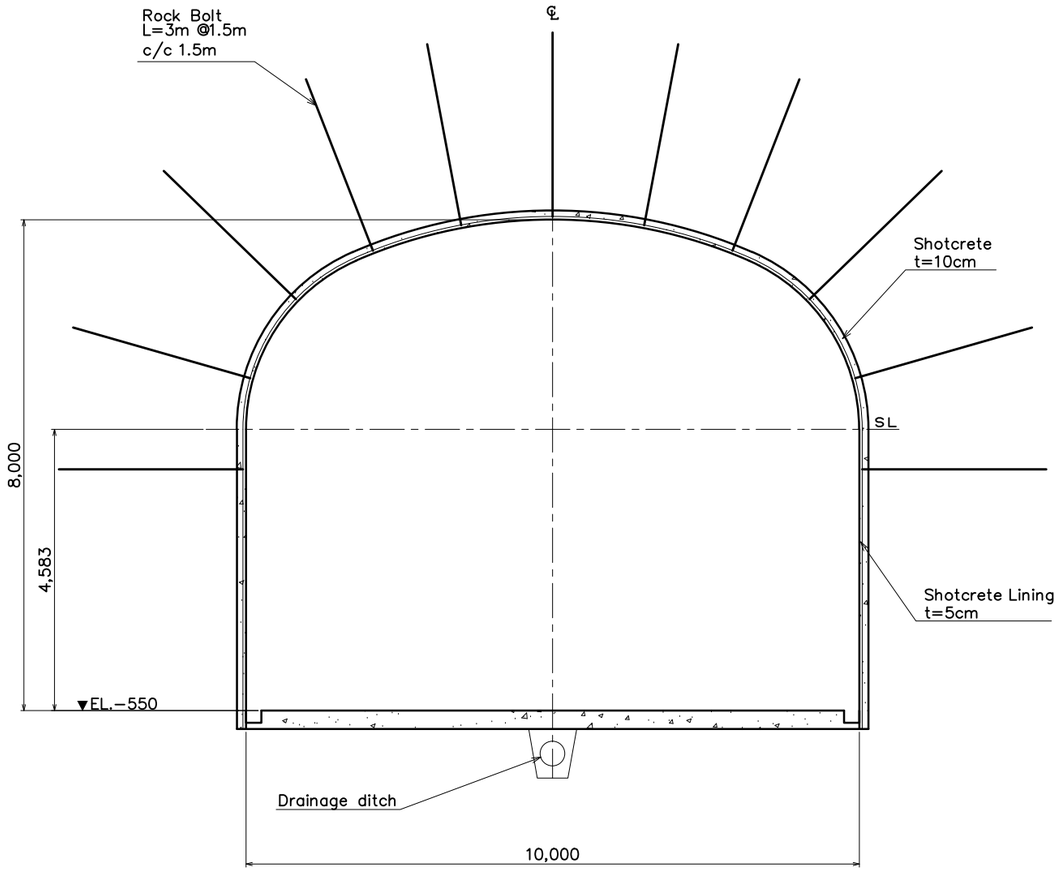
Section C-C



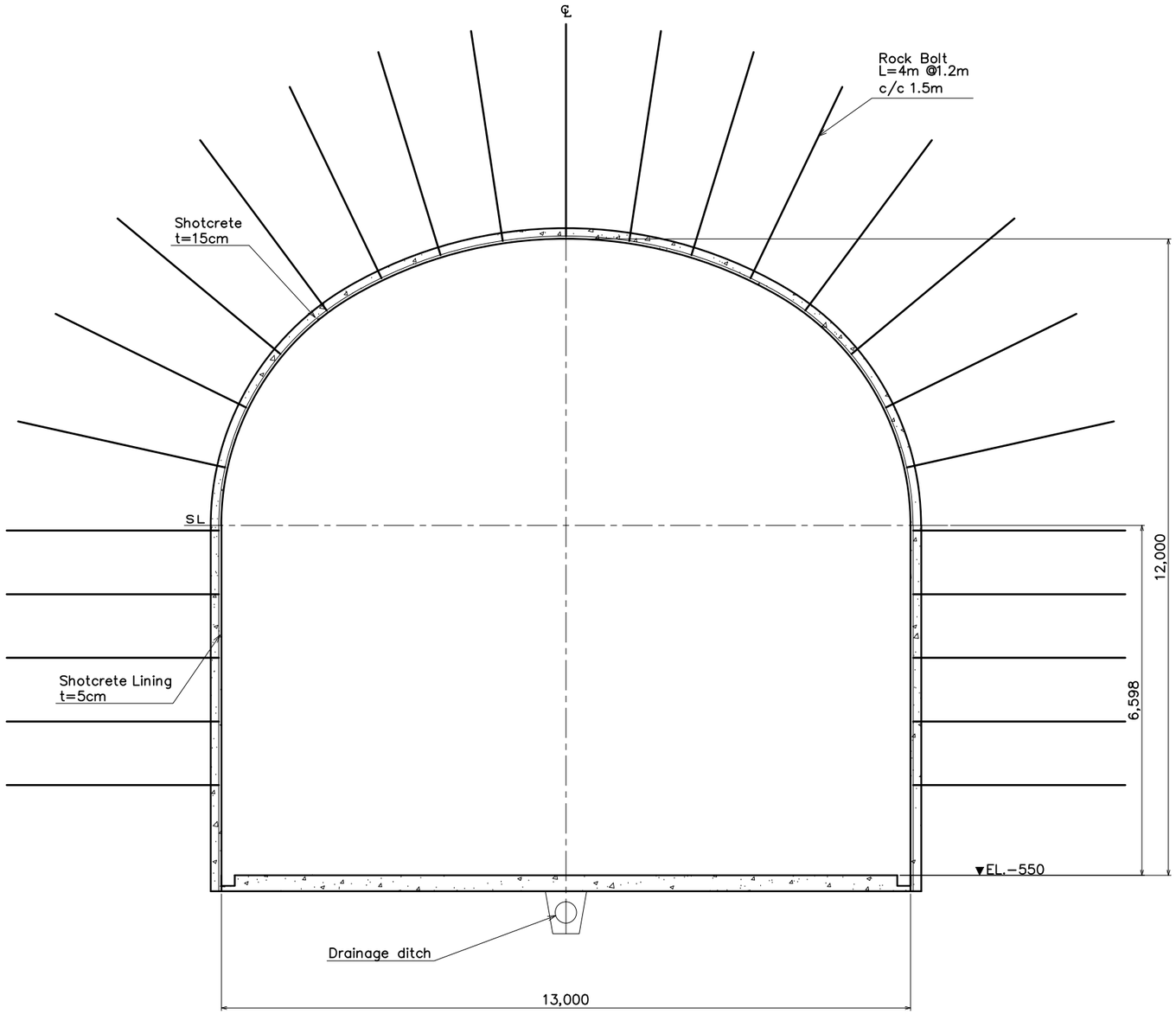
Section D-D

0 5m
Section

ilc	GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DAMPING RING - SECTIONS SHT. - 02	KEK	DRAWING NO. U - 35 SCALE 1/100	REVISION DATE 30 Nov. 2012



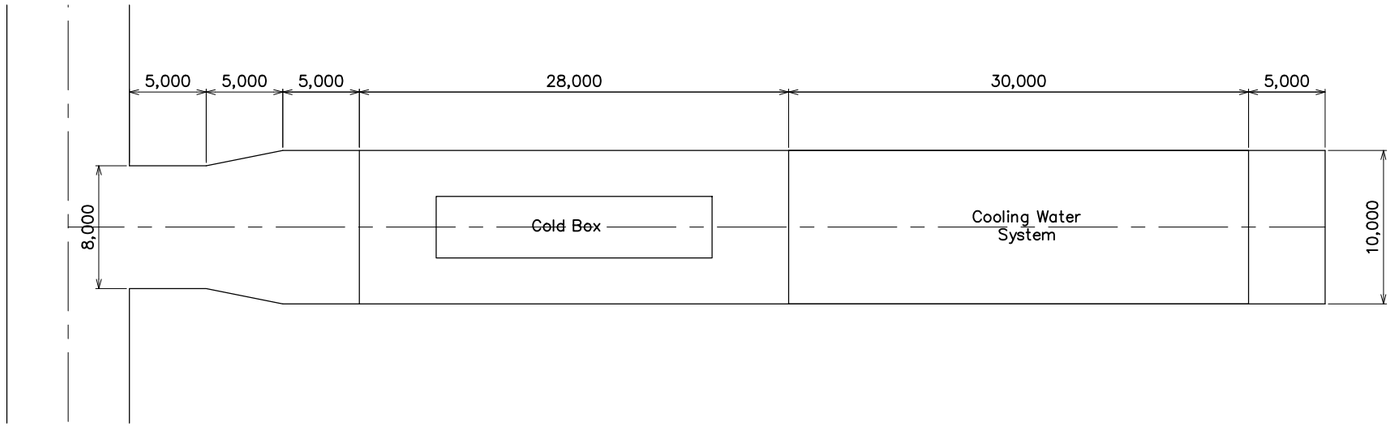
Section E-E



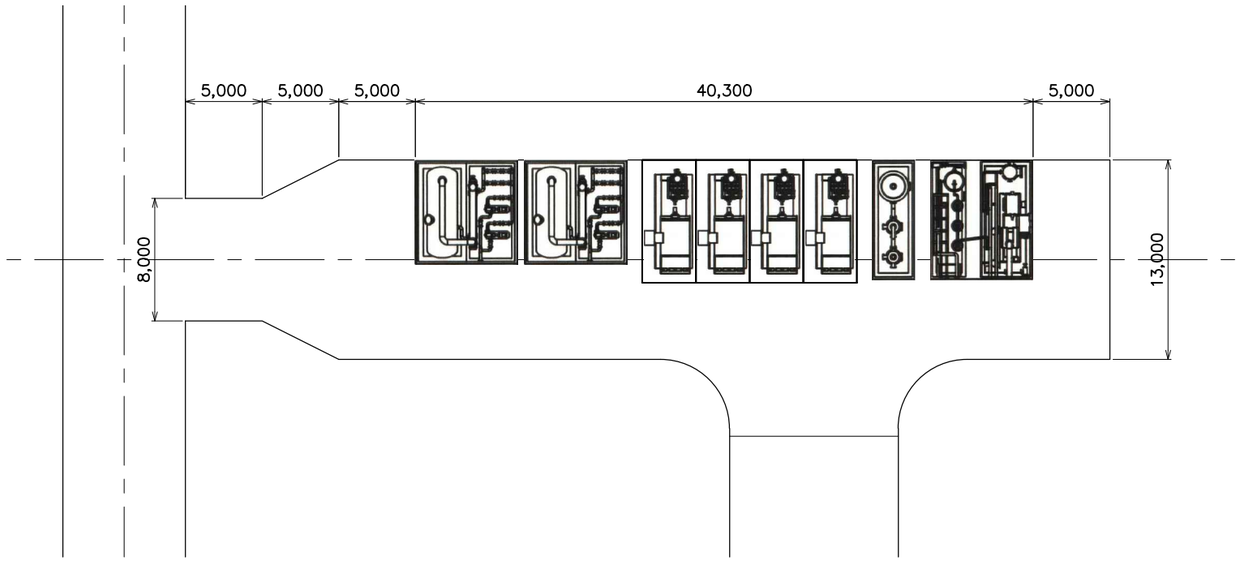
Section F-F

0 5m
Section

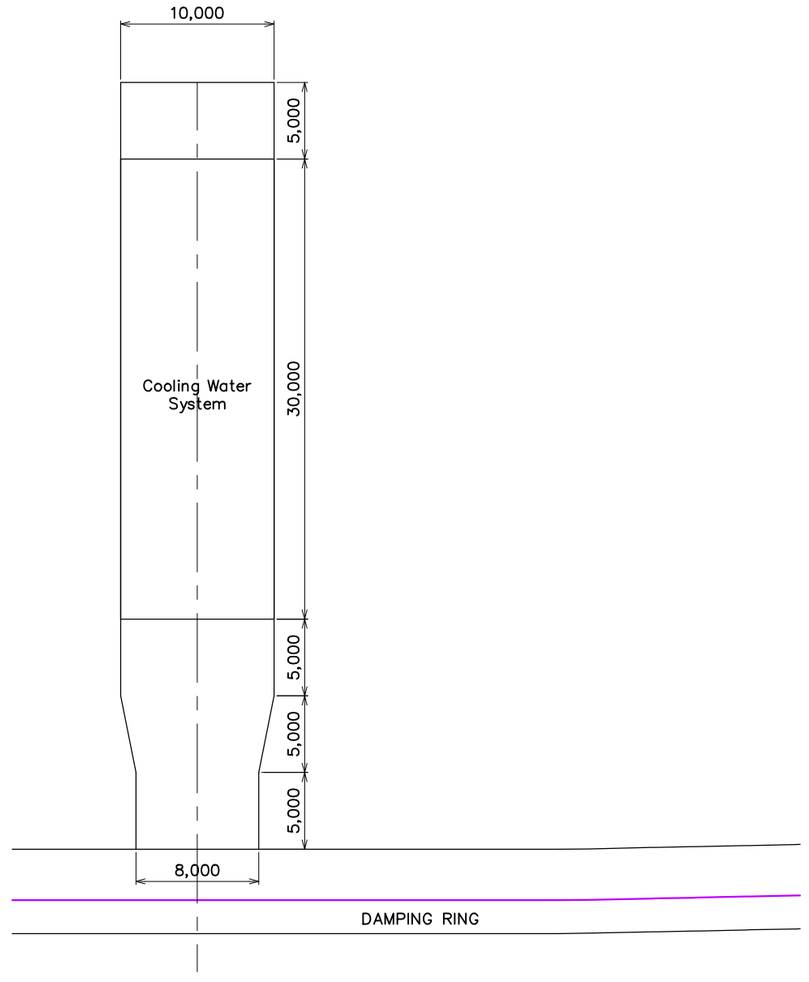
ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **DAMPING RING - SECTIONS SHT. - 03**	KEK	**DRAWING NO.** U - 36	**REVISION**
				SCALE 1/100	**DATE** 30 Nov. 2012



DETAIL'A'



DETAIL'B'



DETAIL'C'

NOTE:
1. FLOOR OF THE MAIN LINAC IS DESIGNATED AS ELEVATION −1100 . ALL ELEVATIONS SHOWN IN MILLIMETERS.
2. ALL PLAN DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS NOTED OTHERWISE.

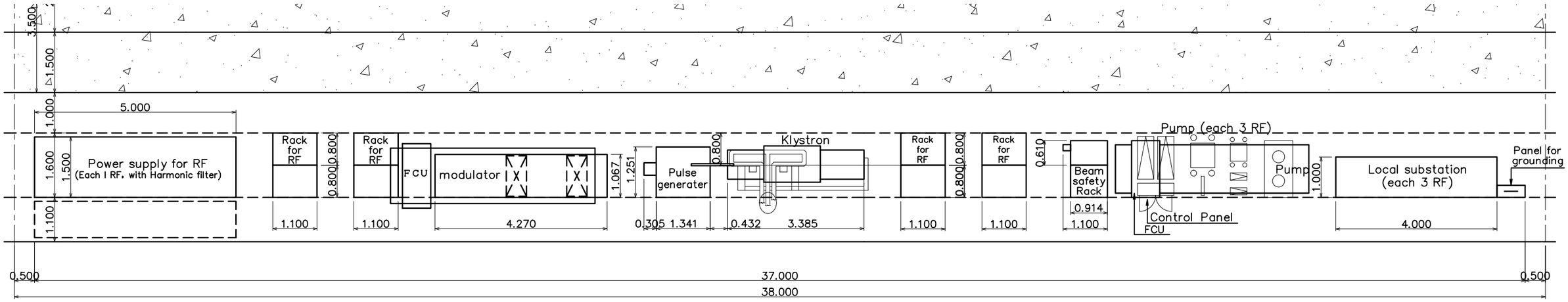
LEGEND

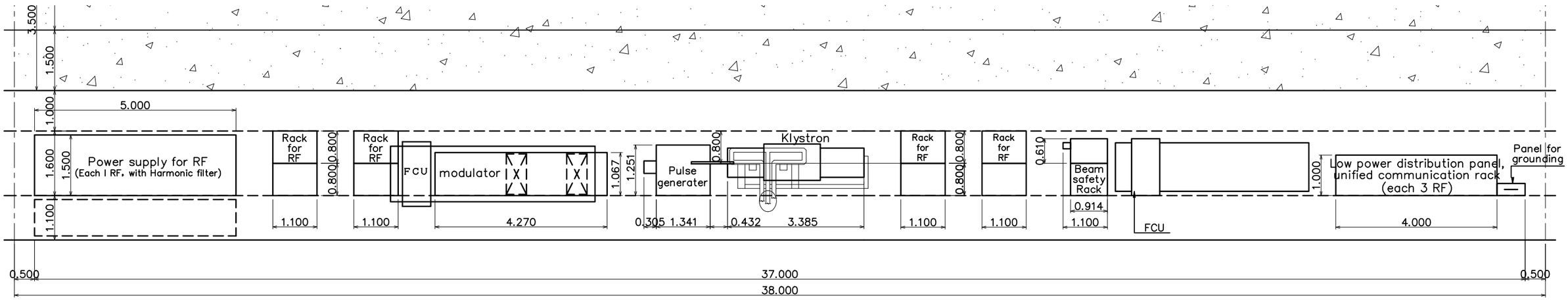
DR

0 20m

DETAIL

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DAMPING RING - SECTIONS SHT. - 04	KEK	DRAWING NO. U - 37	REVISION
			SCALE 1/400	DATE 30 Nov. 2012

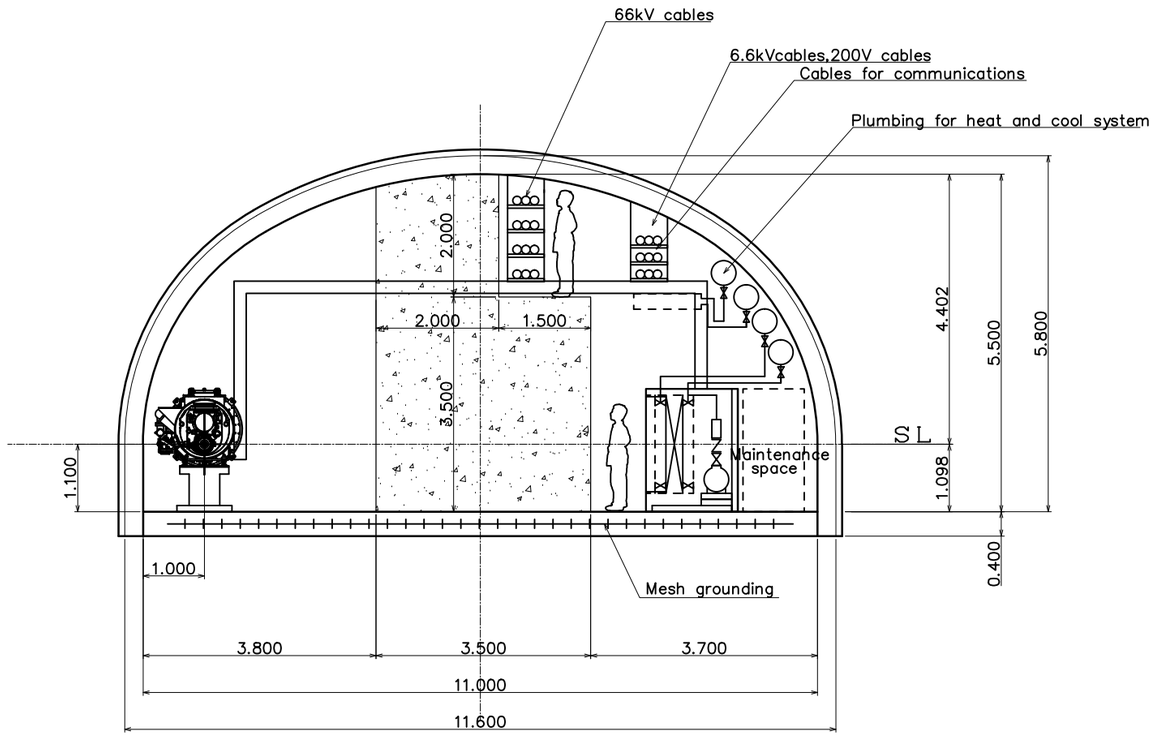




PLAN

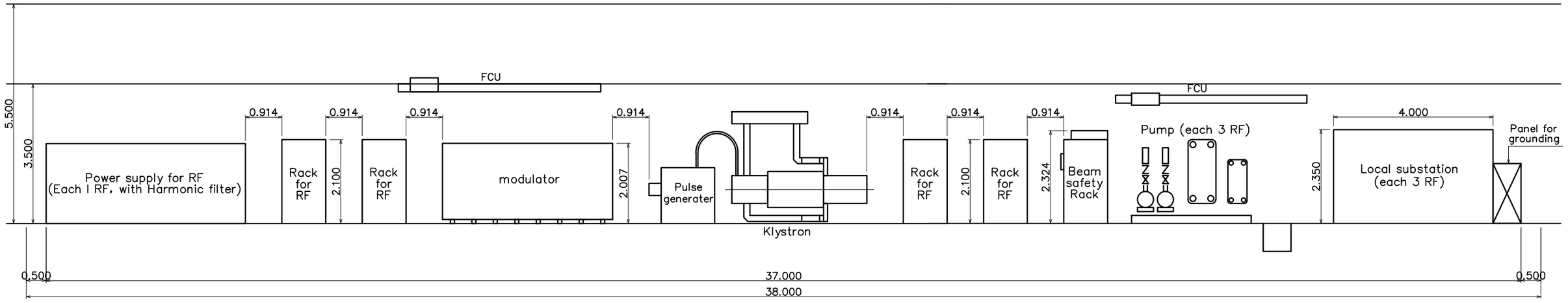
0 5m

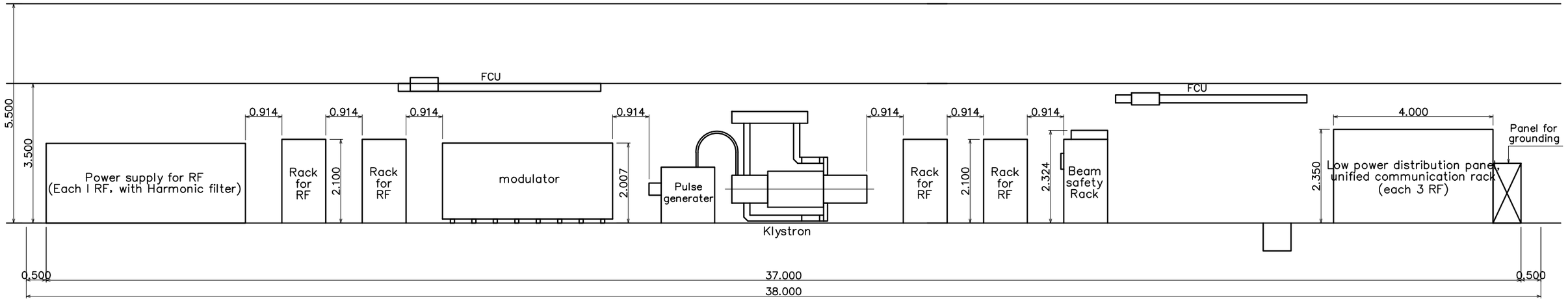
ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **MAIN LINIAC TUNNEL - SCHEMATIC LAYOUT**	KEK	**DRAWING NO.** U - 38 **SCALE** 1/100	**REVISION** **DATE 30 Nov. 2012**



0 5m

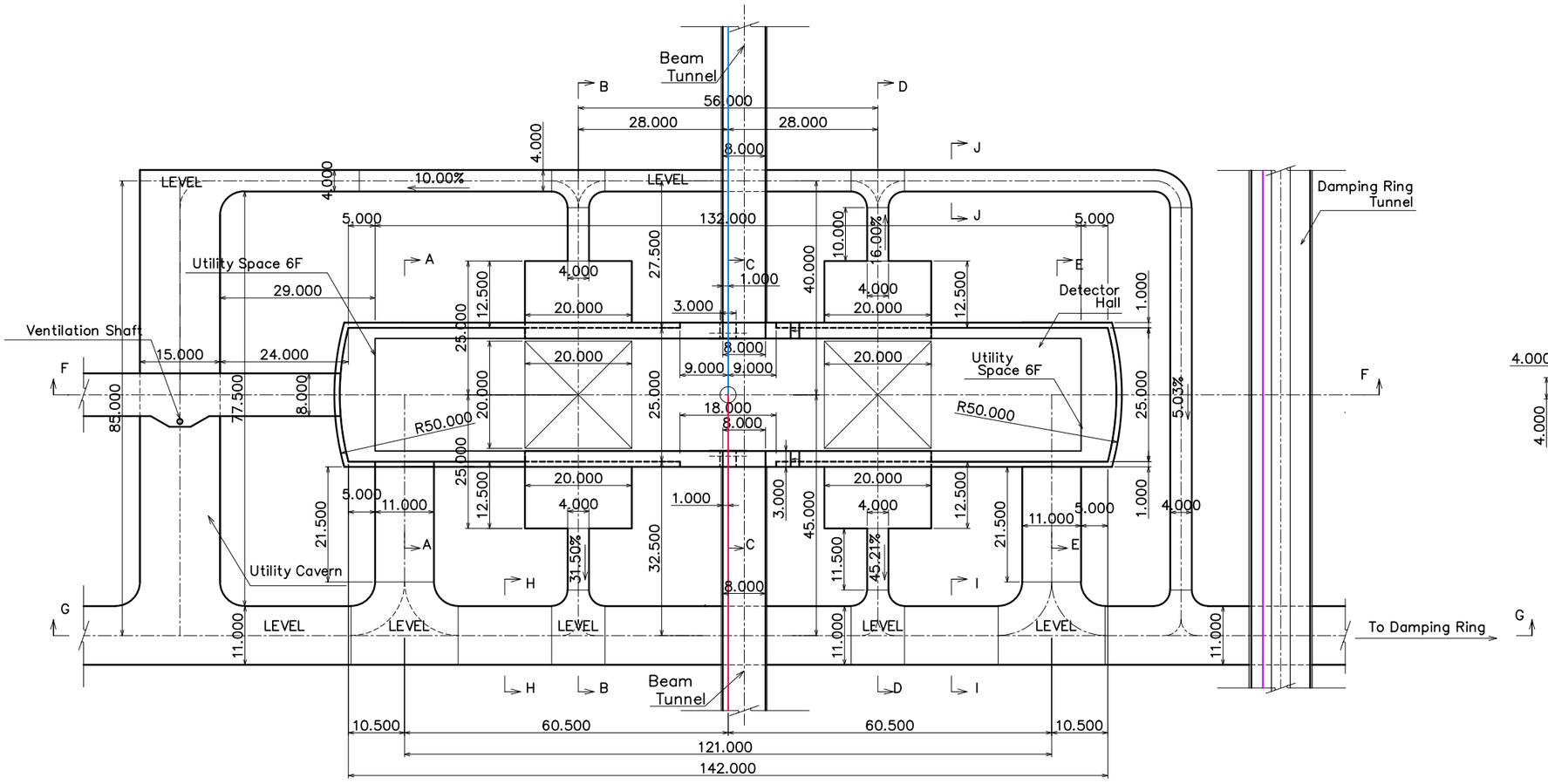
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST MAIN LINIAC TUNNEL - SECTION	KEK	DRAWING NO. U - 39	REVISION
			SCALE 1/100	DATE 30 Nov. 2012



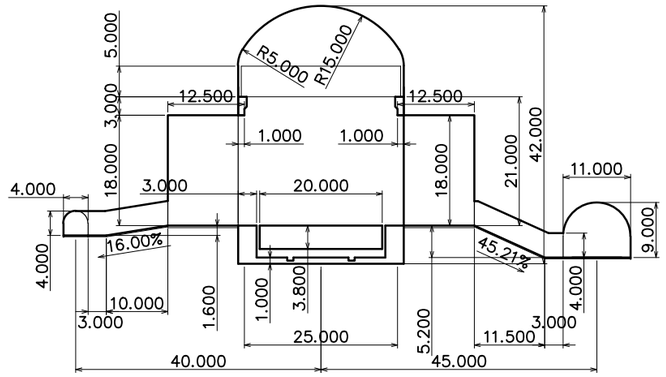


0 5m

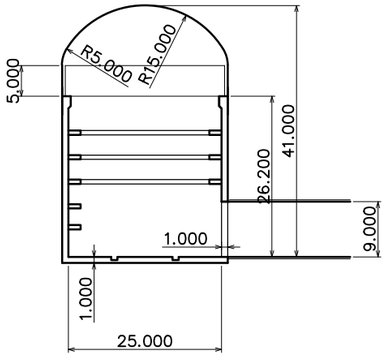
	GLOBAL DESIGN EFFORT **ASIA REGION**	**ASIAN ILC BASIS OF COST** **MAIN LINIAC TUNNEL - LONGITUDINAL SECTION**	KEK	**DRAWING NO.** **U - 40** **SCALE** **1/100**	**REVISION** **DATE 30 Nov. 2012**



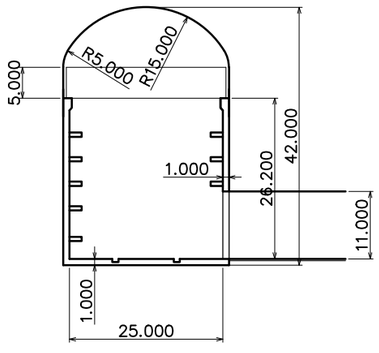
Plan



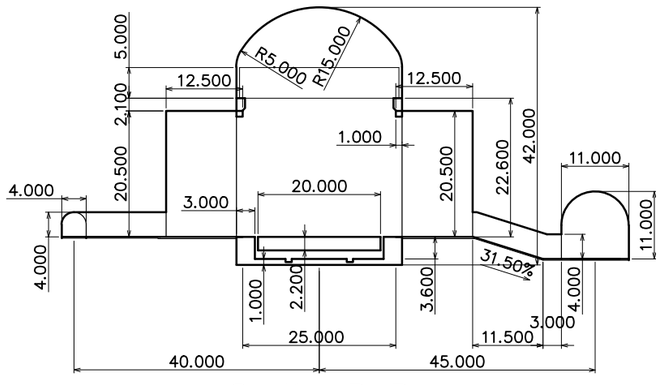
Section D–D



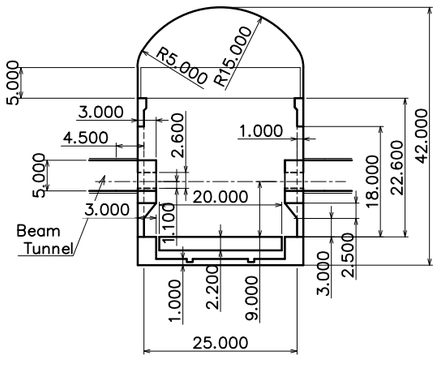
Section E–E



Section A–A



Section B–B

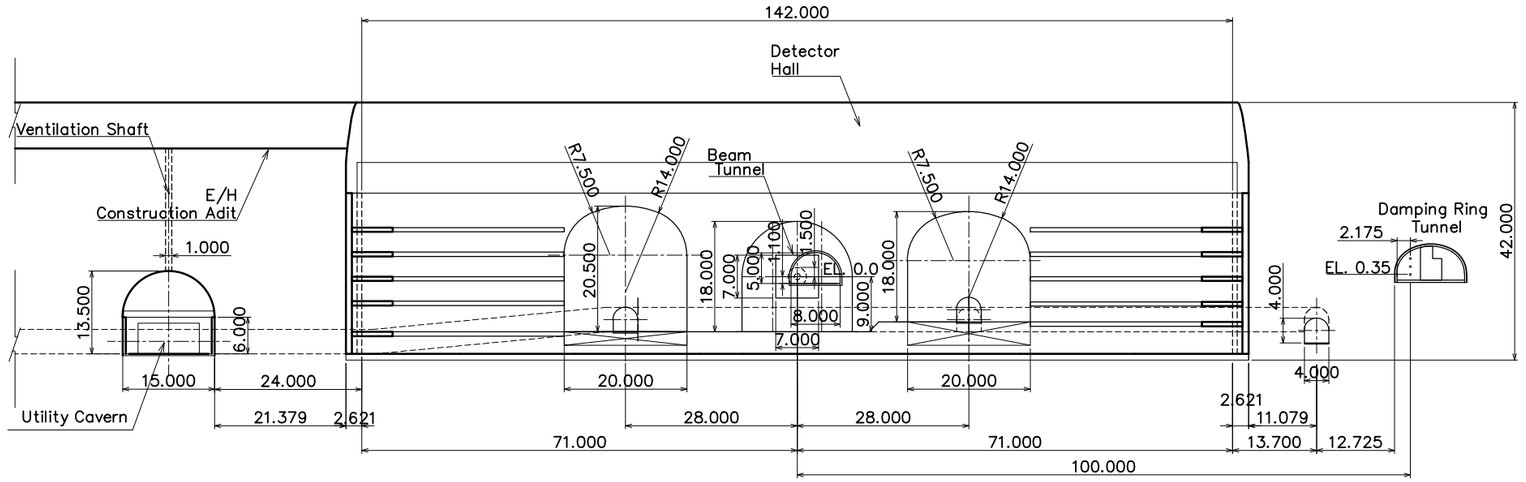


Section C–C

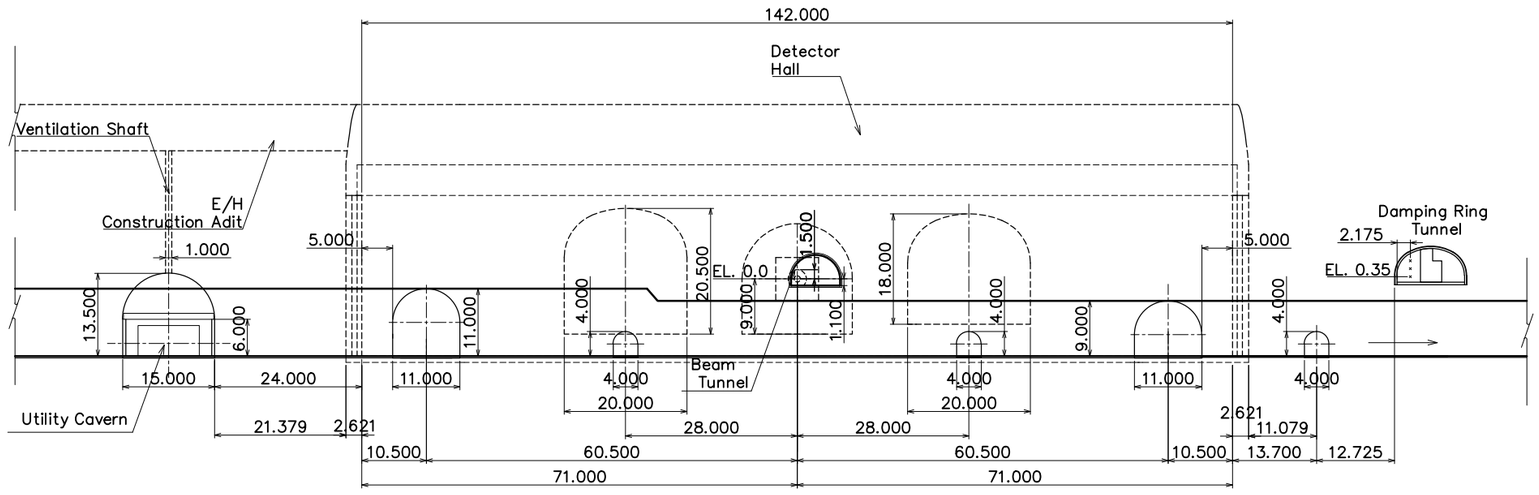
LEGEND
DR
−e ELECTRON
+e POSITRON

0 50m

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DETECTOR HALL - PLAN & SECTIONS	KEK	DRAWING NO. U - 41 / REVISION SCALE 1/1000 / DATE 30 Nov. 2012



Section F–F

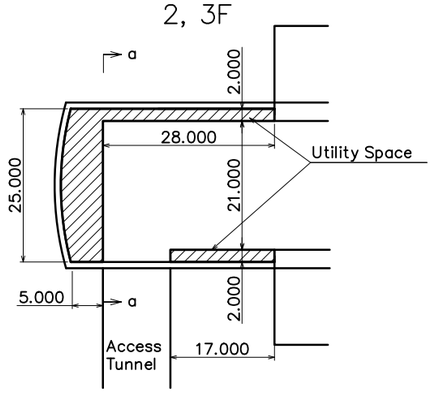


Section G–G

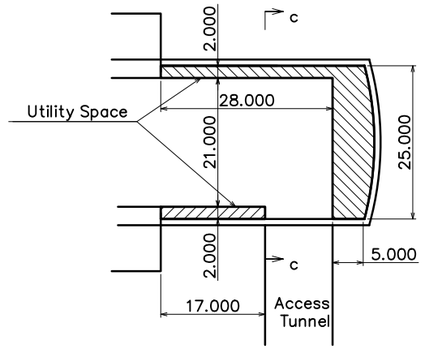
0 50m

GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DETECTOR HALL - LONGITUDINAL SECTIONS	KEK	DRAWING NO. U - 42	REVISION
			SCALE 1/1000	DATE 30 Nov. 2012

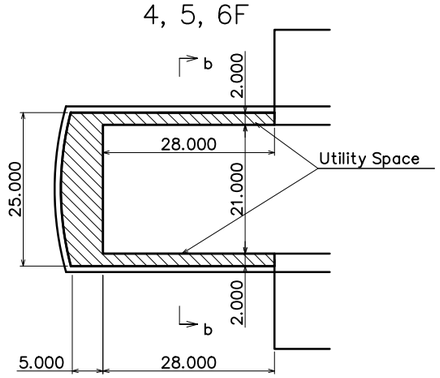
2, 3F



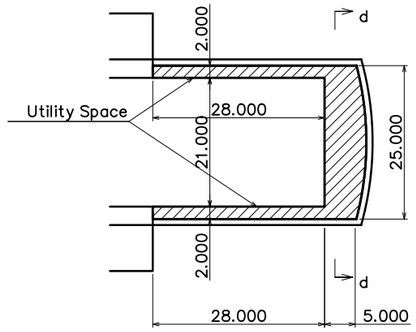
2, 3F

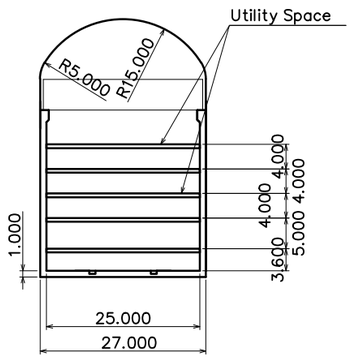


4, 5, 6F

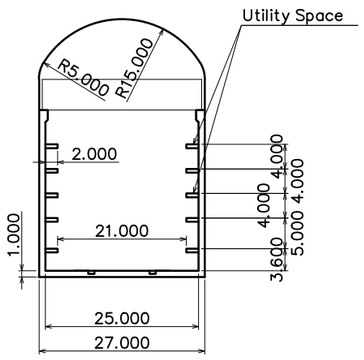


4, 5, 6F



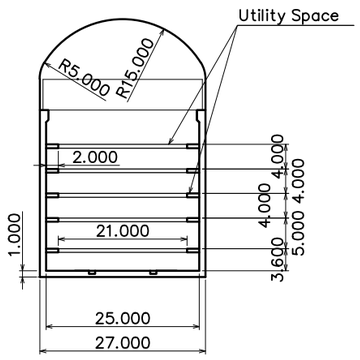


Section a–a

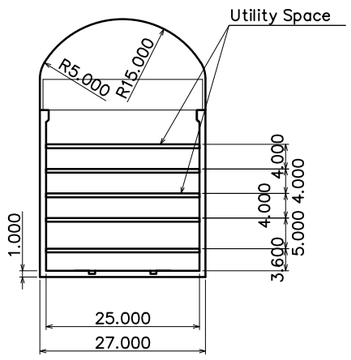


Section b–b

Utility Space (ILD side)

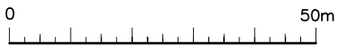


Section c–c

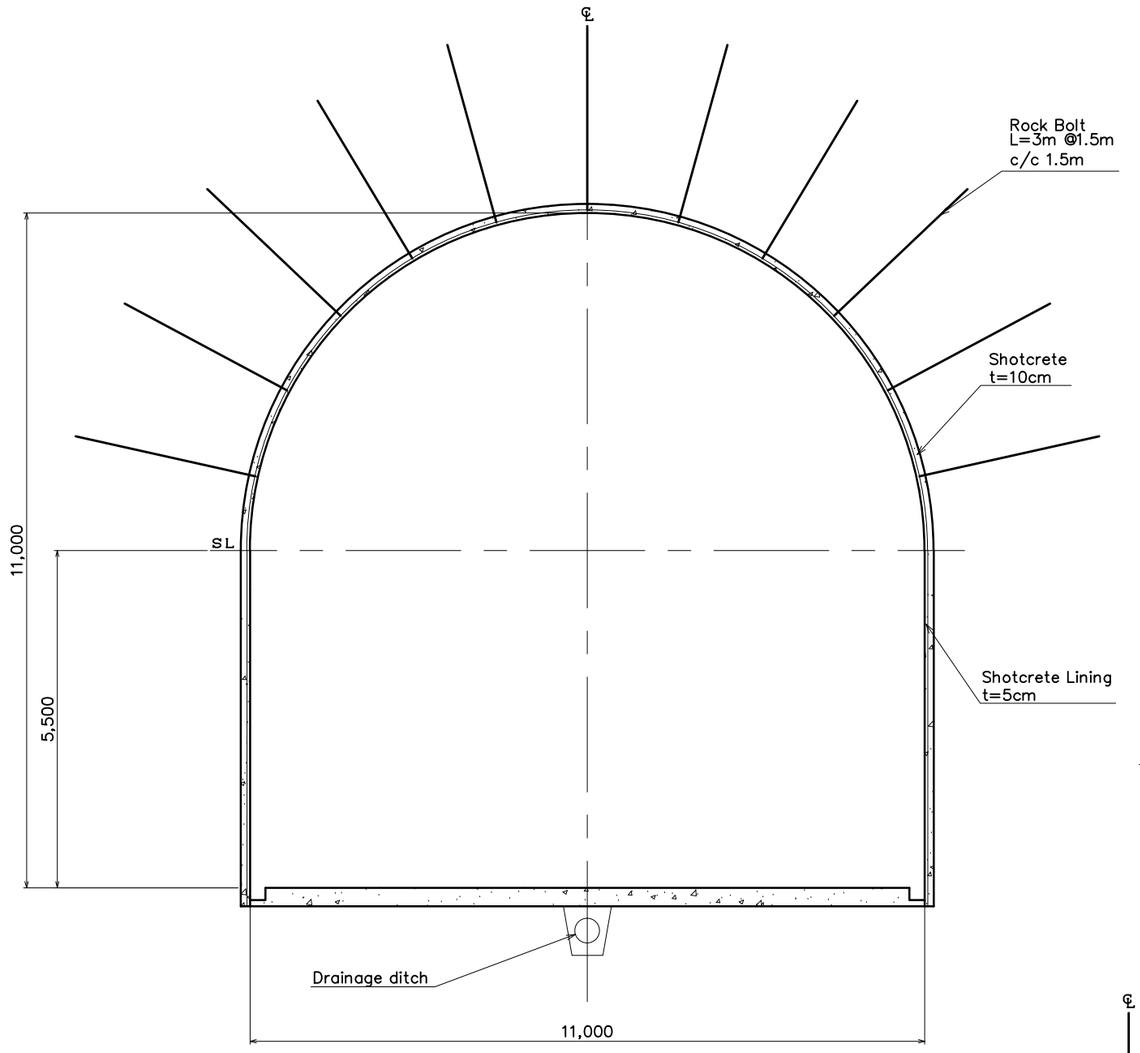


Section d–d

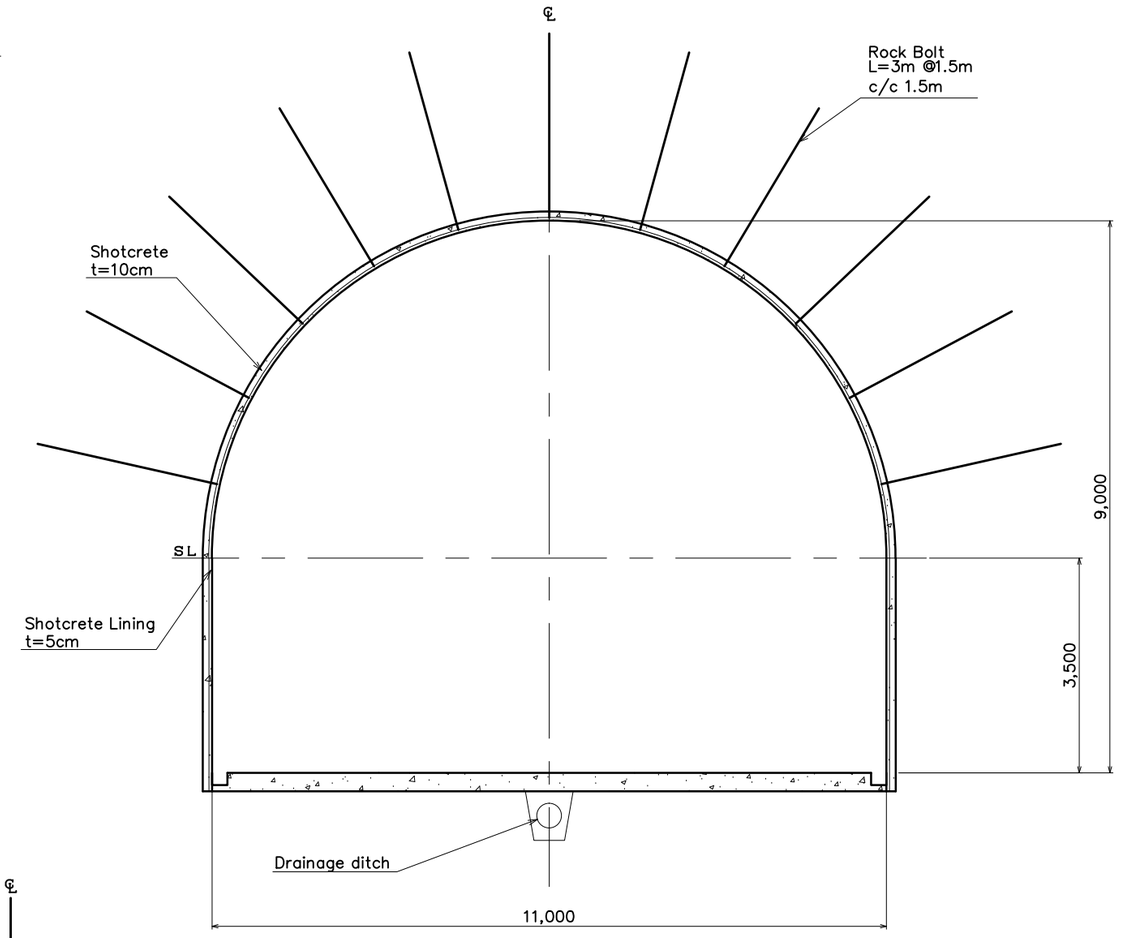
Utility Space (SiD side)



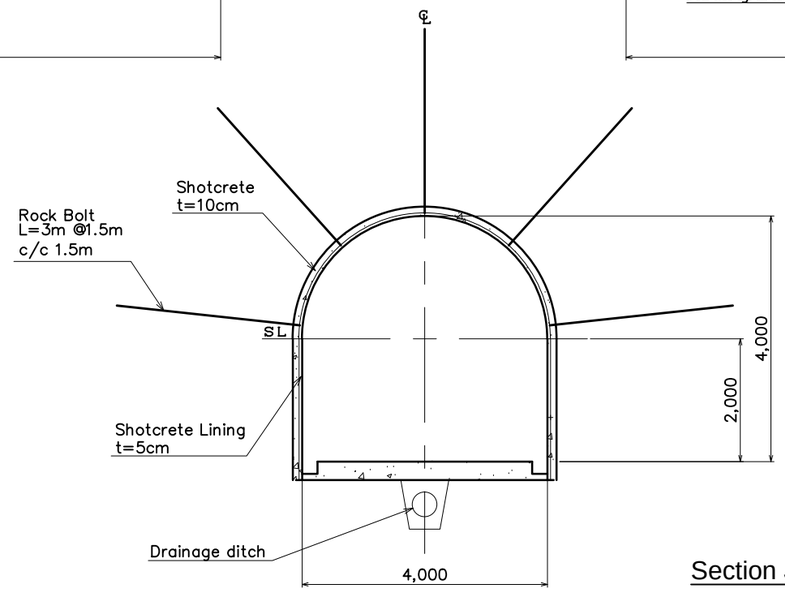
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DETECTOR HALL - SECTIONS & UTILITY SPACE	KEK	DRAWING NO. U - 43 SCALE 1/1000	REVISION DATE 30 Nov. 2012



Section H-H



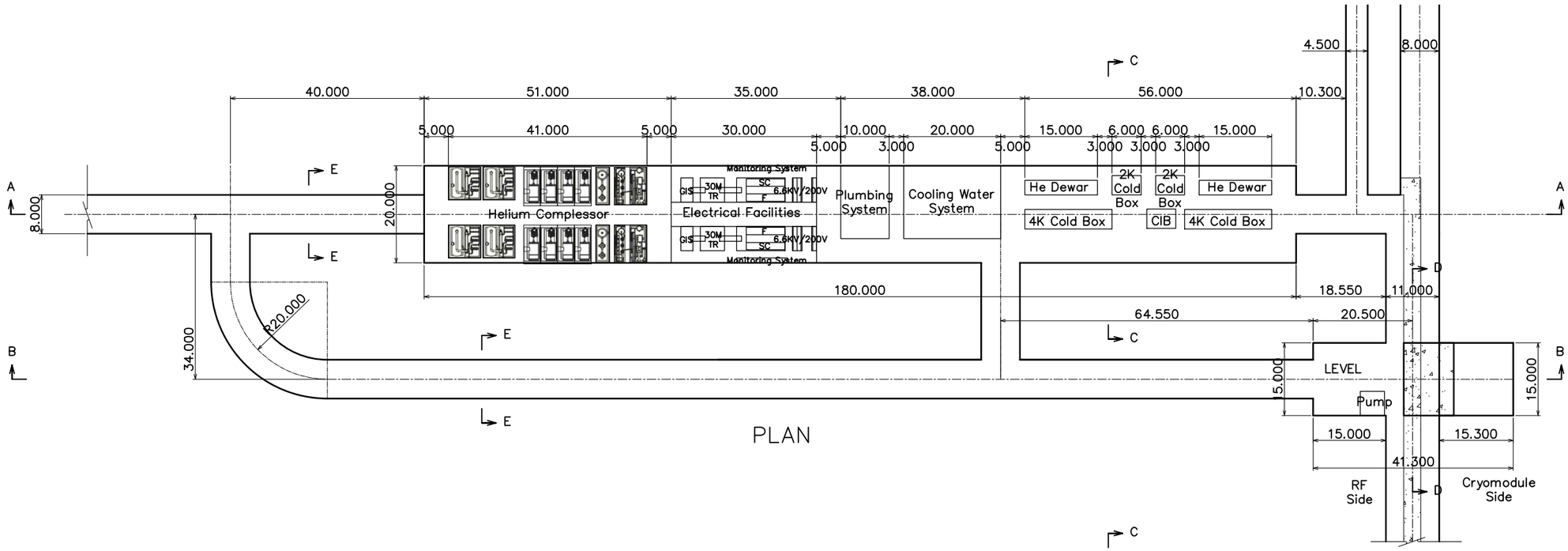
Section I-I



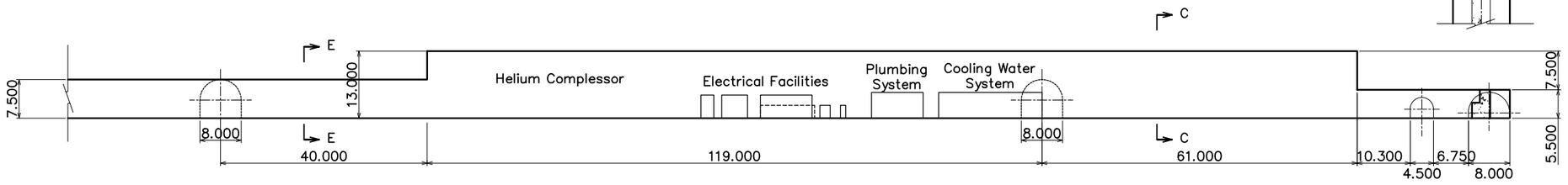
Section J-J

0 5m
Section

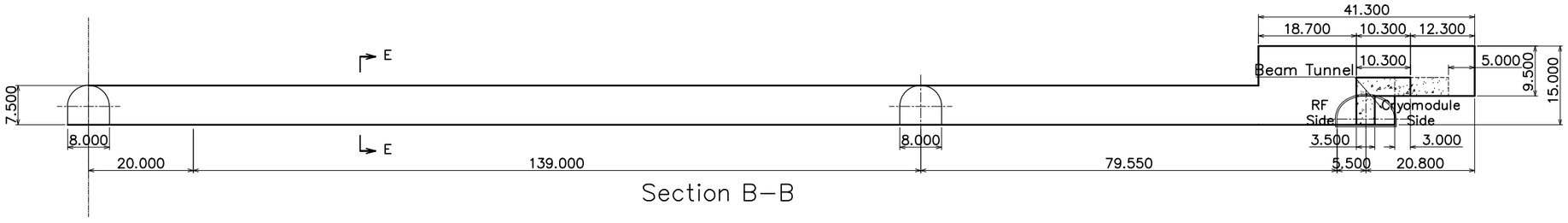
GLOBAL DESIGN EFFORT ASIA REGION	ASIAN ILC BASIS OF COST DETECTOR HALL - TUNNEL SECTIONS	KEK	DRAWING NO. U - 44	REVISION
			SCALE 1/100	DATE 30 Nov. 2012



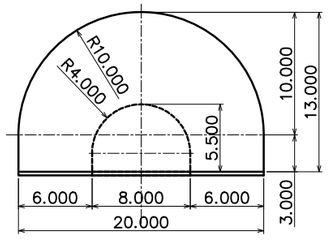
PLAN



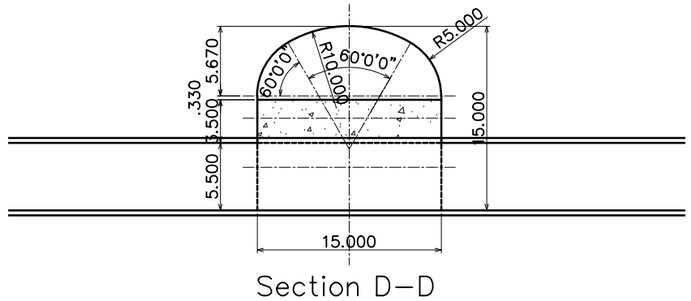
Section A–A



Section B–B



Section C–C

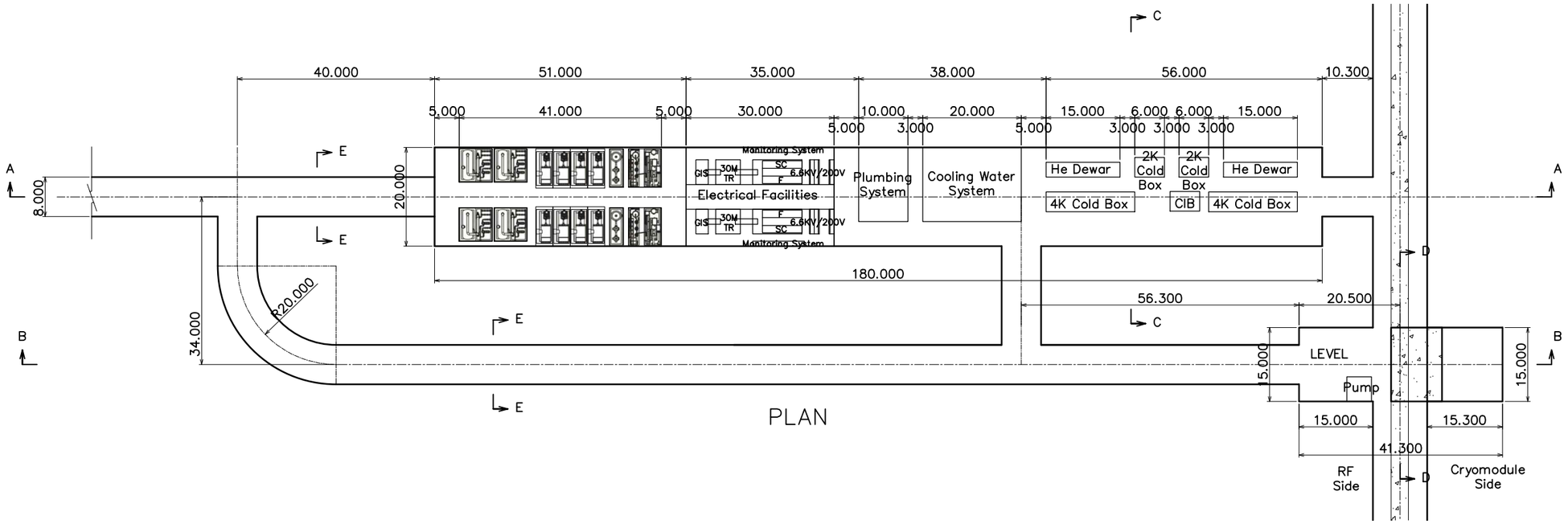


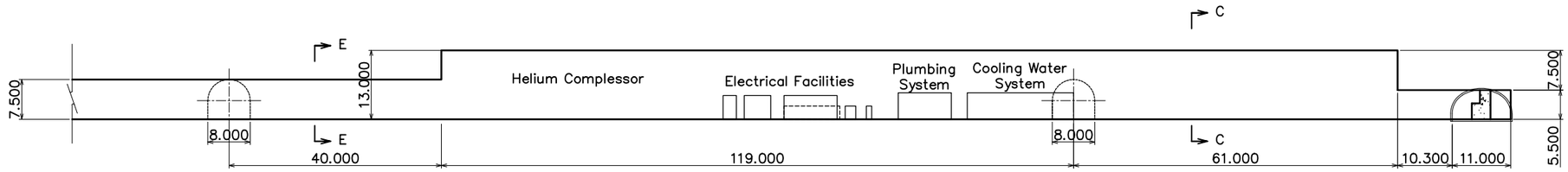
Section D–D

0 50m
Plan, Section A–A,B–B

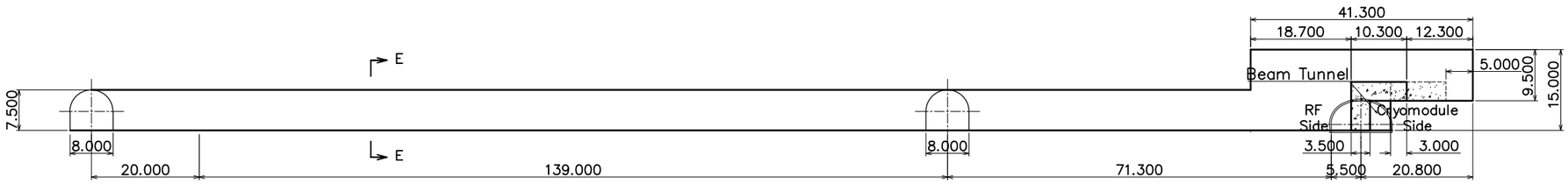
0 25m
Detail,Section C–C,D–D

ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **ACCESS HALL (PM-8) - PLAN & SECTIONS**	KEK	**DRAWING NO.** U - 45	**REVISION**
				SCALE 1/1,000 ,1/500	**DATE** 30 Nov. 2012

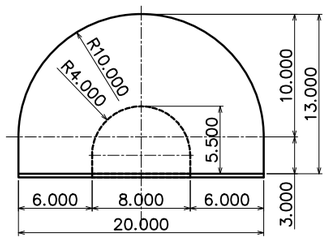




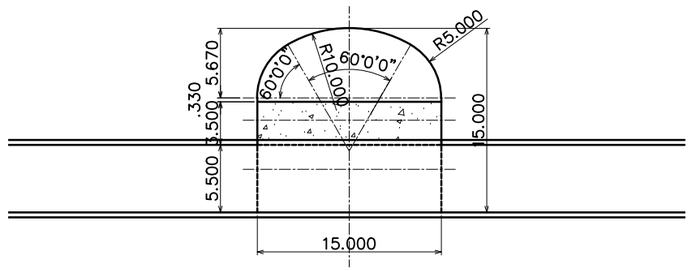
Section A–A



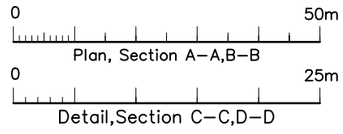
Section B–B



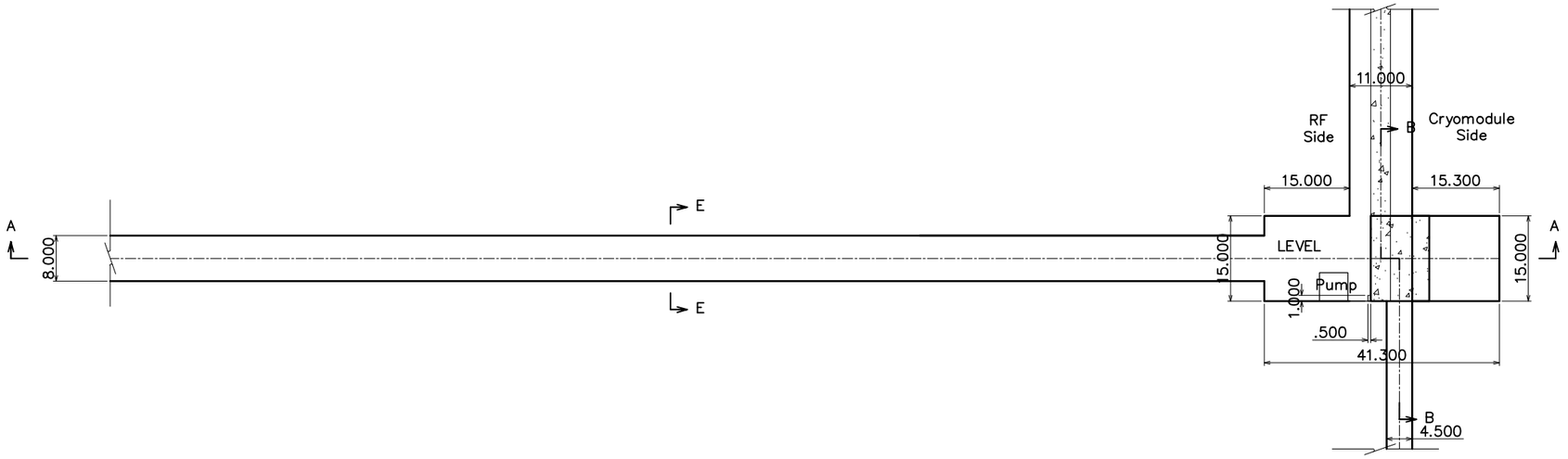
Section C–C



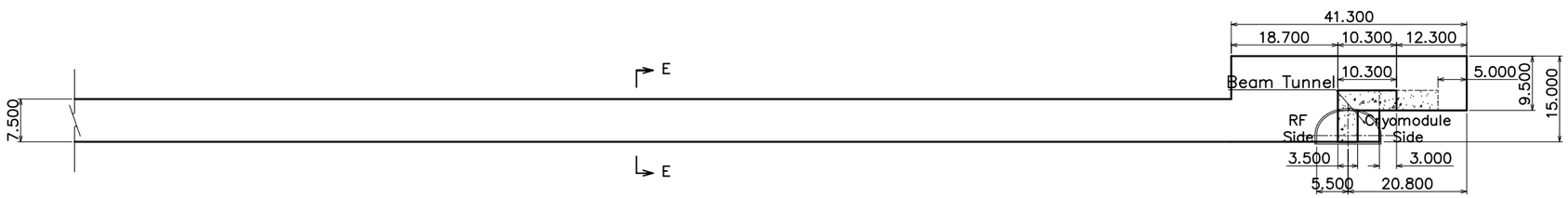
Section D–D



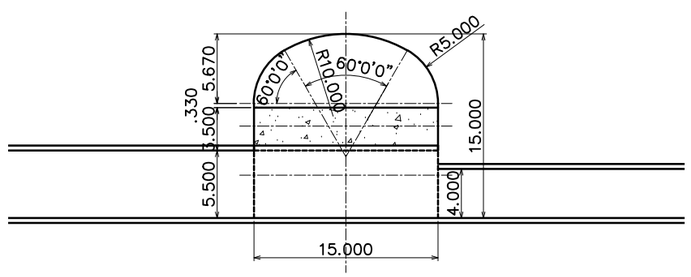
	GLOBAL DESIGN EFFORT **ASIA REGION**	**ASIAN ILC BASIS OF COST** **ACCESS HALL (PM-10) - PLAN & SECTIONS**	KEK	**DRAWING NO.** U - 46	**REVISION**
				SCALE 1/1,000 ,1/500	**DATE** 30 Nov. 2012



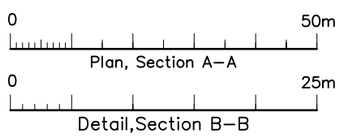
PLAN



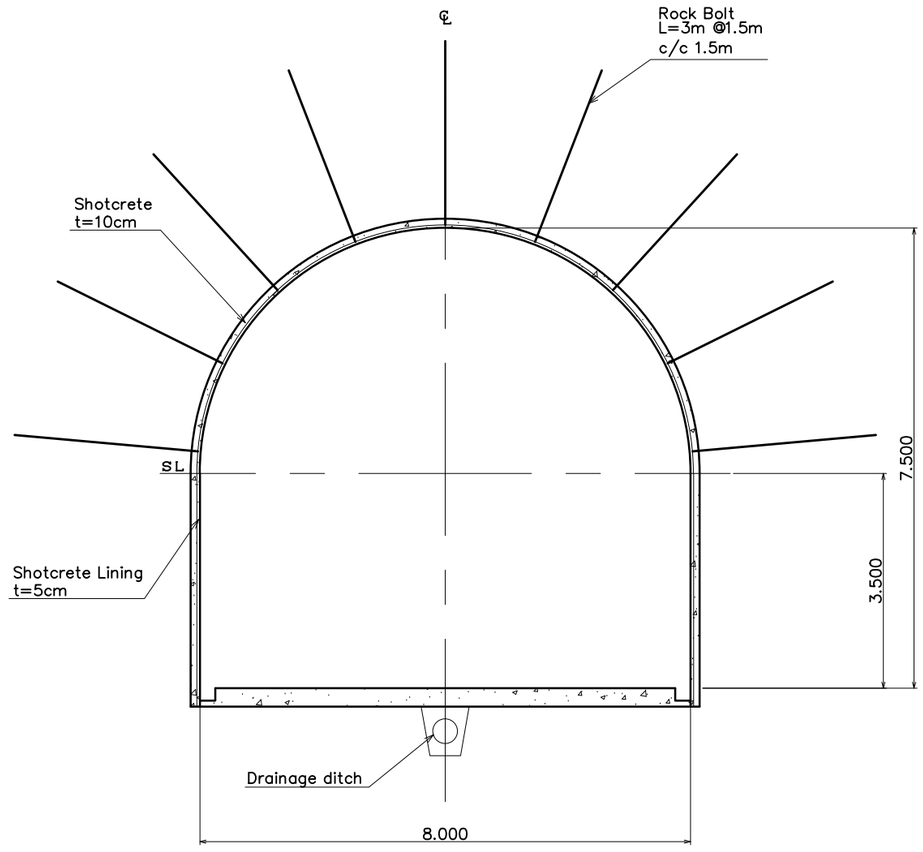
Section A–A



Section B–B



ilc	**GLOBAL DESIGN EFFORT** **ASIA REGION**	**ASIAN ILC BASIS OF COST** **ACCESS HALL (PM-13) - PLAN & SECTIONS**	KEK	**DRAWING NO.** U - 47	**REVISION**
				SCALE 1/1,000 ,1/500	**DATE** 30 Nov. 2012



Section E–E

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Section

ilc	GLOBAL DESIGN EFFORT ASIA REGION	AcASIAN ILC BASIS OF COST ACCESS HALL -TUNNEL SECTION	KEK	DRAWING NO. U - 48	REVISION
				SCALE 1/100	DATE 30 Nov. 2012