

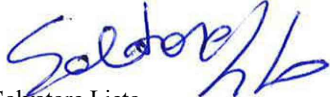


ASSE VIARIO MARCHE-UMBRIA E QUADRILATERO DI PENETRAZIONE INTERNA MAXI LOTTO 2

LAVORI DI COMPLETAMENTO DELLA DIRETTRICE PERUGIA ANCONA:
 SS. 318 DI "VALFABBRICA", TRATTO PIANELLO - VALFABBRICA
 SS. 76 "VAL D'ESINO", TRATTI FOSSATO VICO - CANCELLI E ALBACINA - SERRA SAN QUIRICO
 "PEDEMONTANA DELLE MARCHE", TRATTO FABRIANO-MUCCIA-SFERCIA.

PROGETTO ESECUTIVO

CONTRAENTE GENERALE: 	Il responsabile del Contraente Generale:  Ing. Federico Montanari	Il responsabile Integrazioni delle Prestazioni Specialistiche:  Ing. Salvatore Lieto
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PROGETTAZIONE: Associazione Temporanea di Imprese

Mandataria: **PROGETTAZIONE GRANDI INFRASTRUTTURE PROGIN S.p.A.** Mandanti:

		 SGAI s.r.l. di E. Forlani & C. Studio di Ingegneria e Geologia Applicata <small>Via Marconi, 20 - 47833 Mercatino di Ronagna (RN) - ITALY P.IVA 01194420485 - tel/fax +39 0541998277 - e-mail: sgai@sgai.com pec: sgai@sgai.pec.com</small>
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Stat. Qual. ISO 9001:08 RINA 4387005/...

RESPONSABILE DELLA PROGETTAZIONE PER L'A.T.I. Prof. Ing. Antonio Grimaldi GEOLOGO Dott. Geol. Fabrizio Pontoni COORDINATORE DELLA SICUREZZA IN FASE DI PROGETTAZIONE Ing. Michele Curiale			
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IL RESPONSABILE DEL PROCEDIMENTO Ing. Iginio Farotti	IL COORDINATORE DELLA SICUREZZA IN FASE DI ESECUZIONE Ing. Vincenzo Pardo	IL DIRETTORE DEI LAVORI Ing. Peppino Marascio
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2.1.3 - PEDEMONTANA DELLE MARCHE 3° stralcio funzionale: Castelraimondo nord - Castelraimondo sud 4° stralcio funzionale: Castelraimondo sud - innesto S.S.77 a Muccia OPERE D'ARTE MAGGIORI : GALLERIE NATURALI GALLERIA NATURALE S. BARBARA Relazione Tecnica e di Calcolo della Galleria Naturale - Appendice 1	SCALA: - DATA: Marzo 2020
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Codice Unico di Progetto (CUP) **F12C03000050021** (Assegnato CIPE 23-12-2015)

Codice elaborato:

Opera	Tratto	Settore	CEE	WBS	Id. doc.	N. prog.	Rev.
L 0 7 0 3	2 1 3	E	1 3	G N 3 7 0 0	R E L	0 2	A

REV.	DATA	DESCRIZIONE	Redatto		Controllato	Approvato
A	Marzo 2020	Emissione Progetto Esecutivo	PROGIN	PROGIN	S. Lieto	A. Grimaldi

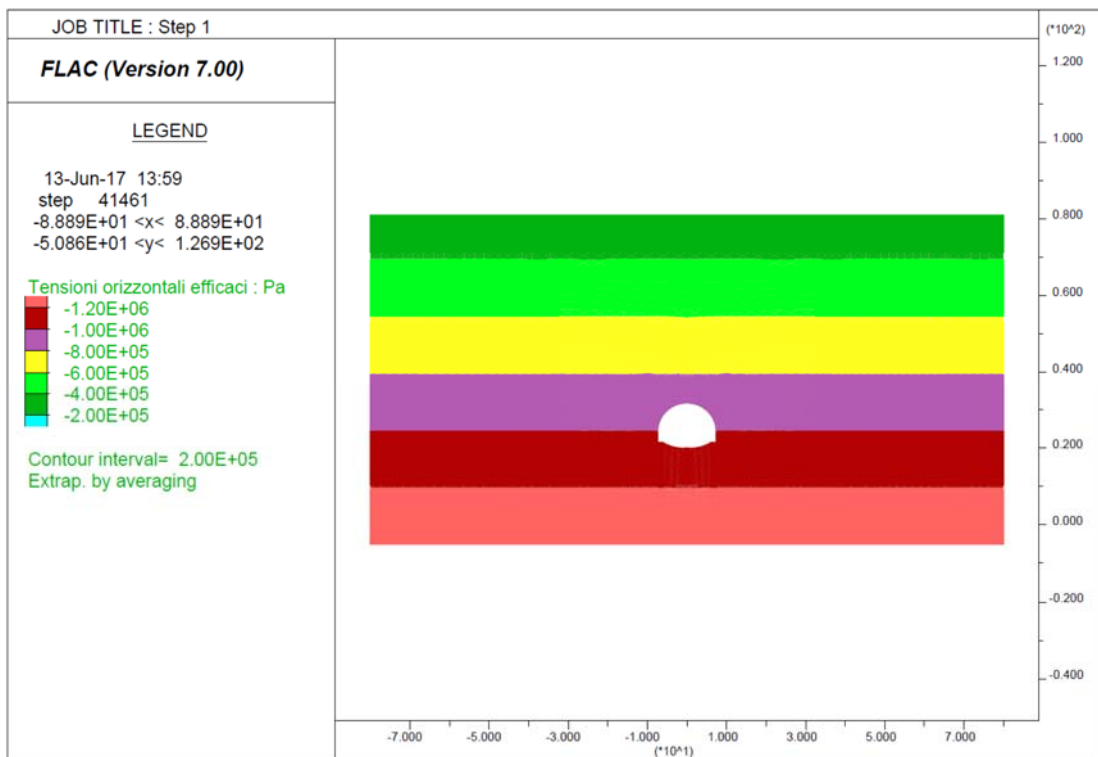
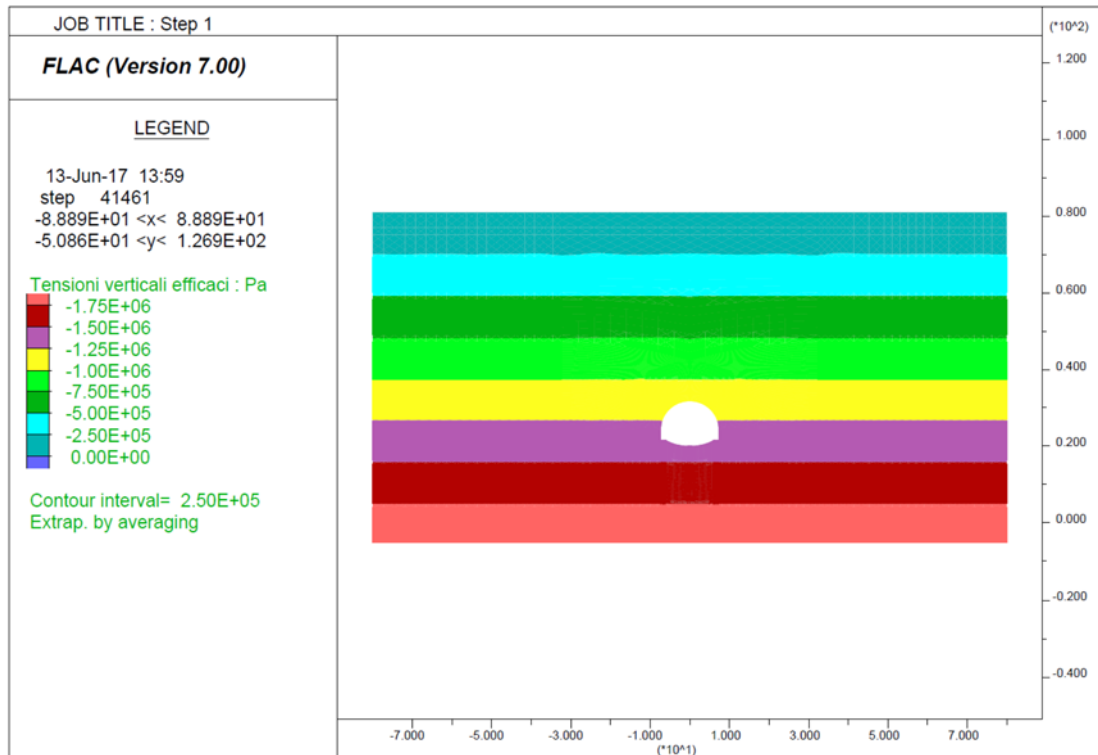
APPENDICE:

Output di calcolo FLAC

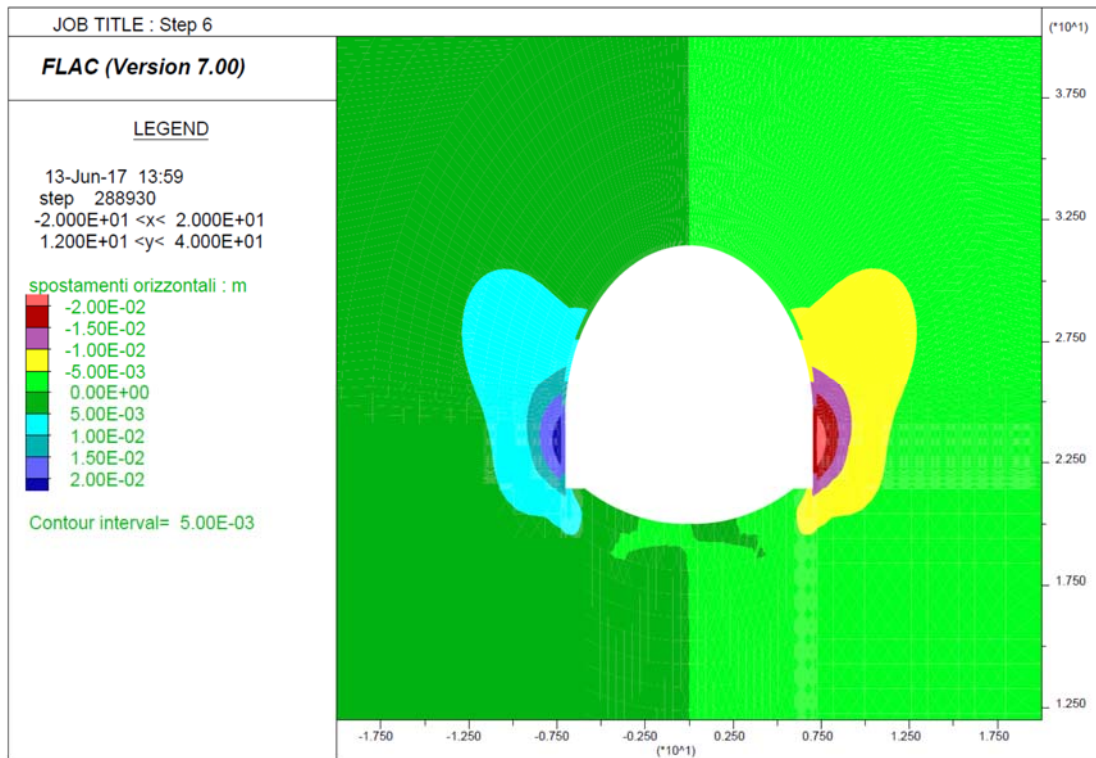
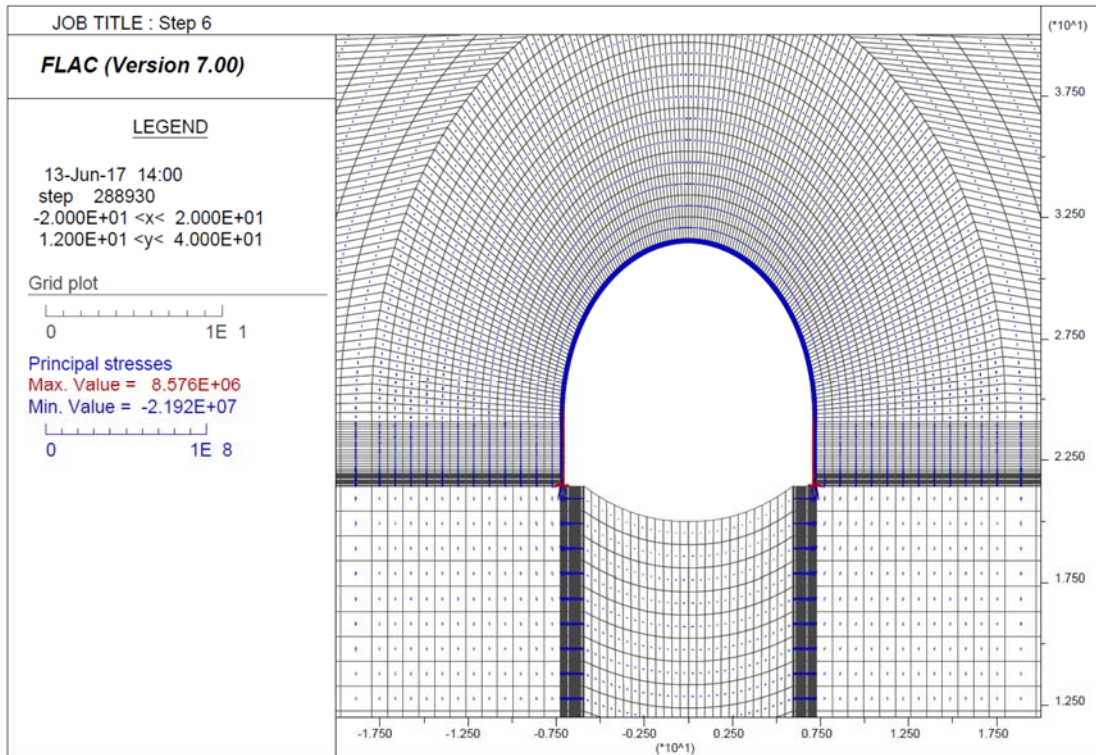
- **Sezione tipo B2 – Parametri res min** – *Copertura di calcolo = 50 m*
- **Sezione tipo B2 – Parametri res max** – *Copertura di calcolo = 50 m*
- **Sezione tipo B0 – Parametri res min** – *Copertura di calcolo = 50 m*
- **Sezione tipo B0 – Parametri res max** – *Copertura di calcolo = 50 m*
- **Sezione tipo B0V** – *Copertura di calcolo = 25 m*
- **Sezione tipo B2V** – *Copertura di calcolo = 15 m*

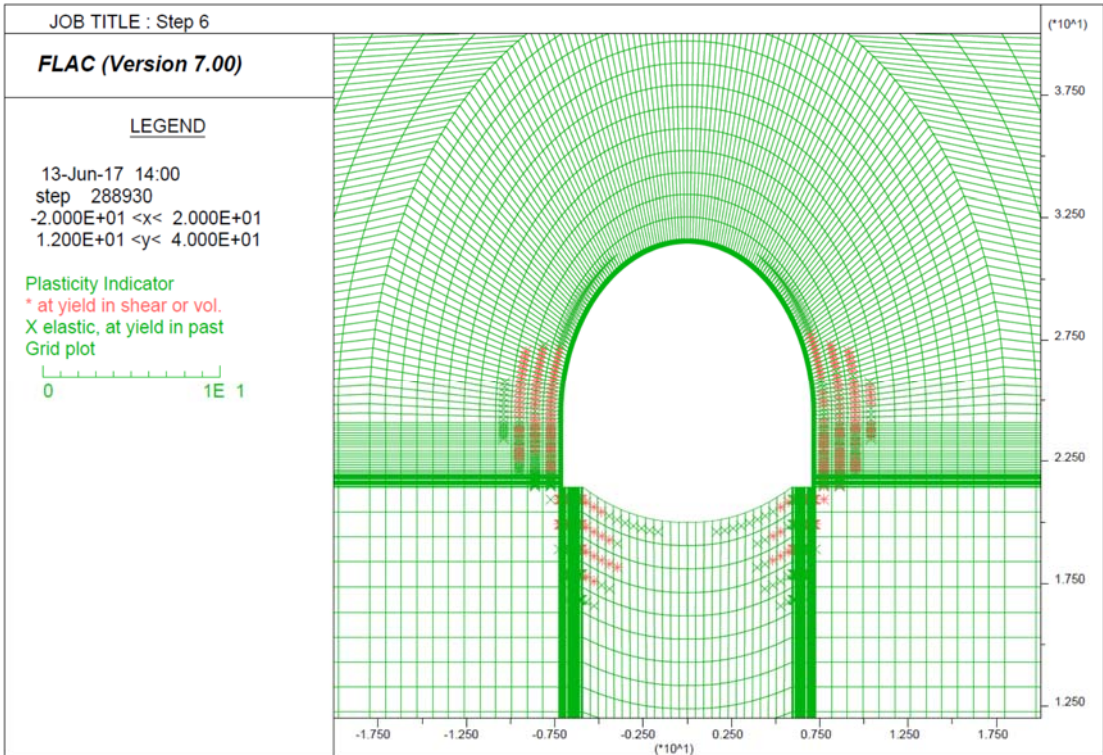
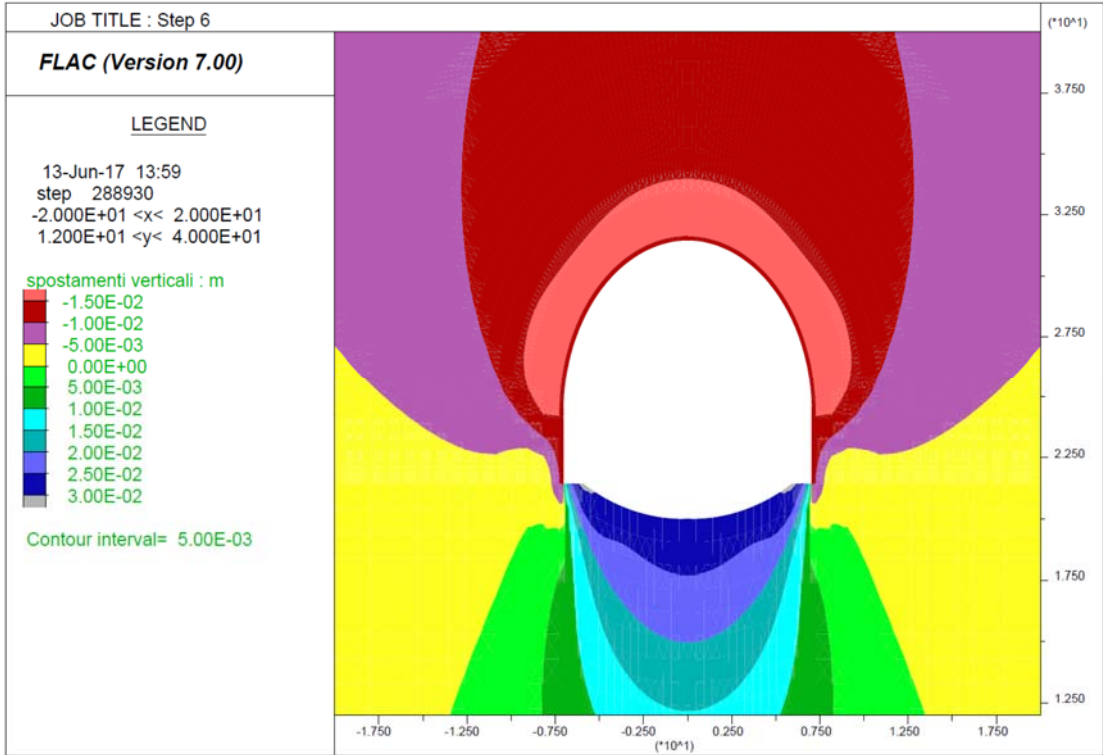
Output Flac – Sezione tipo B2 – Parametri res min – Copertura di calcolo = 50 m

Step 1 – Tensioni litostatiche

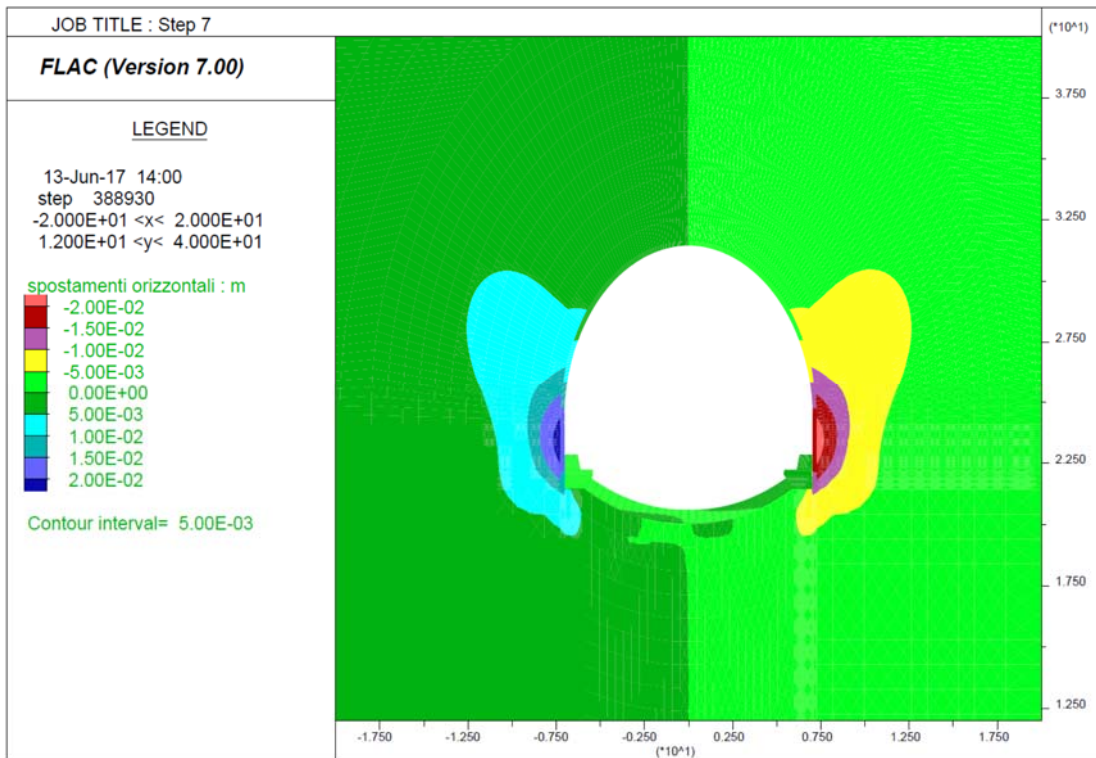
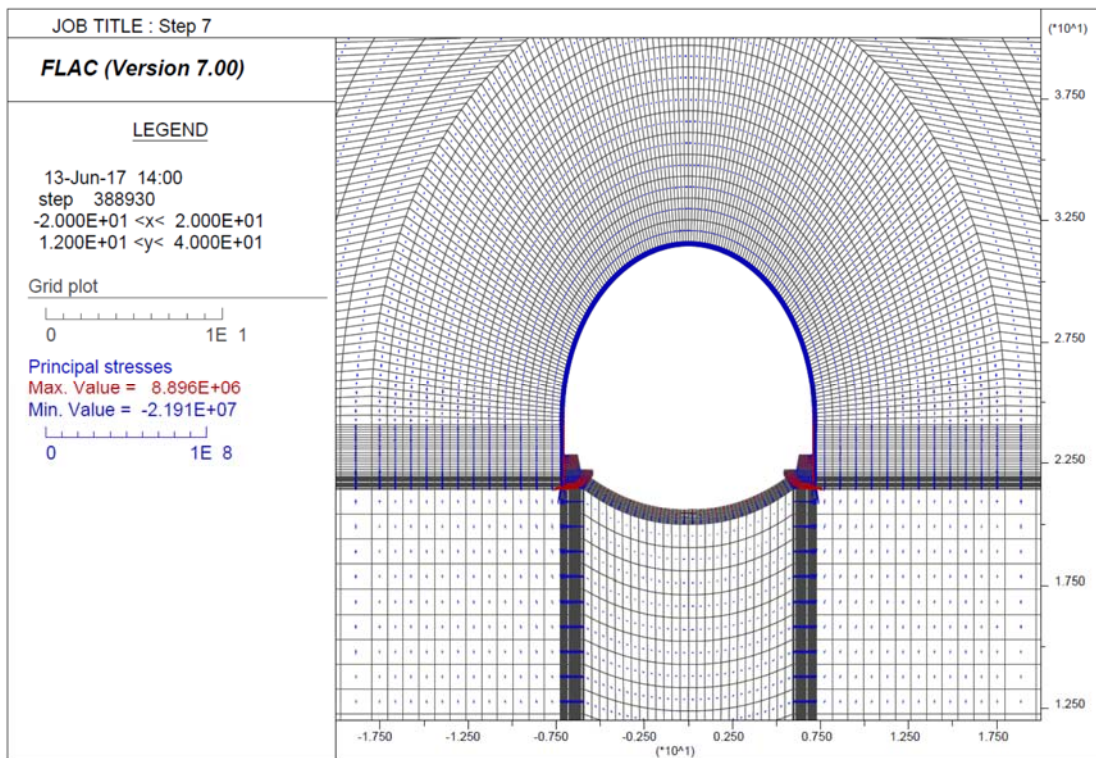


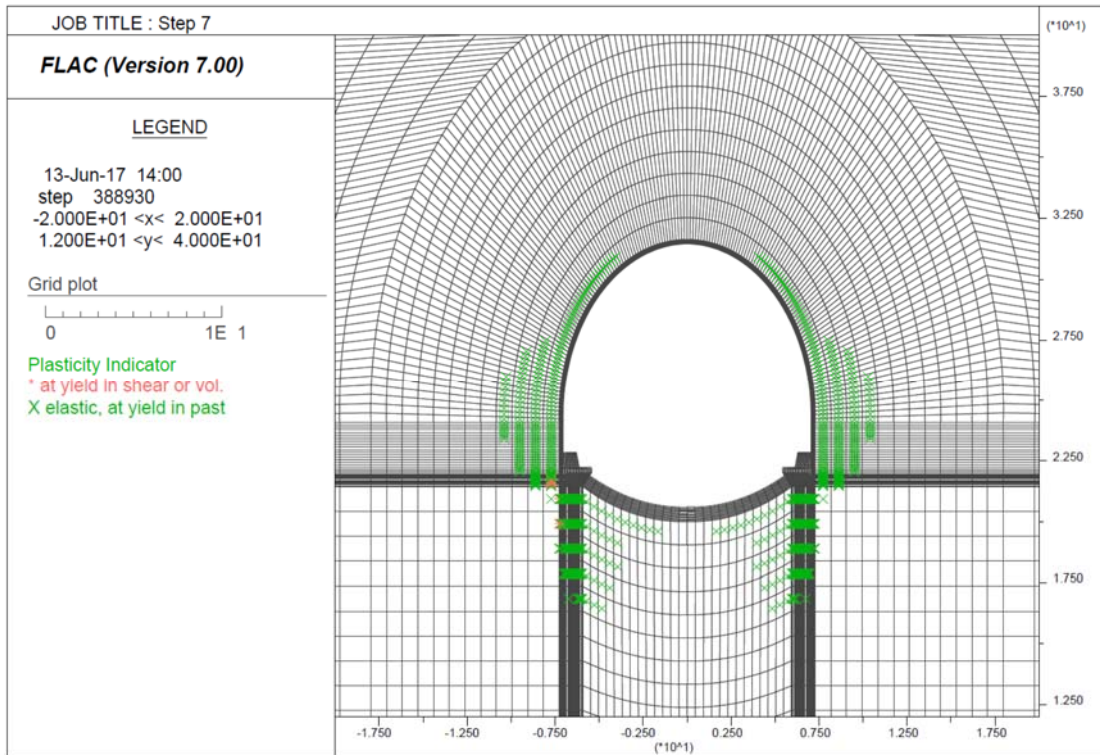
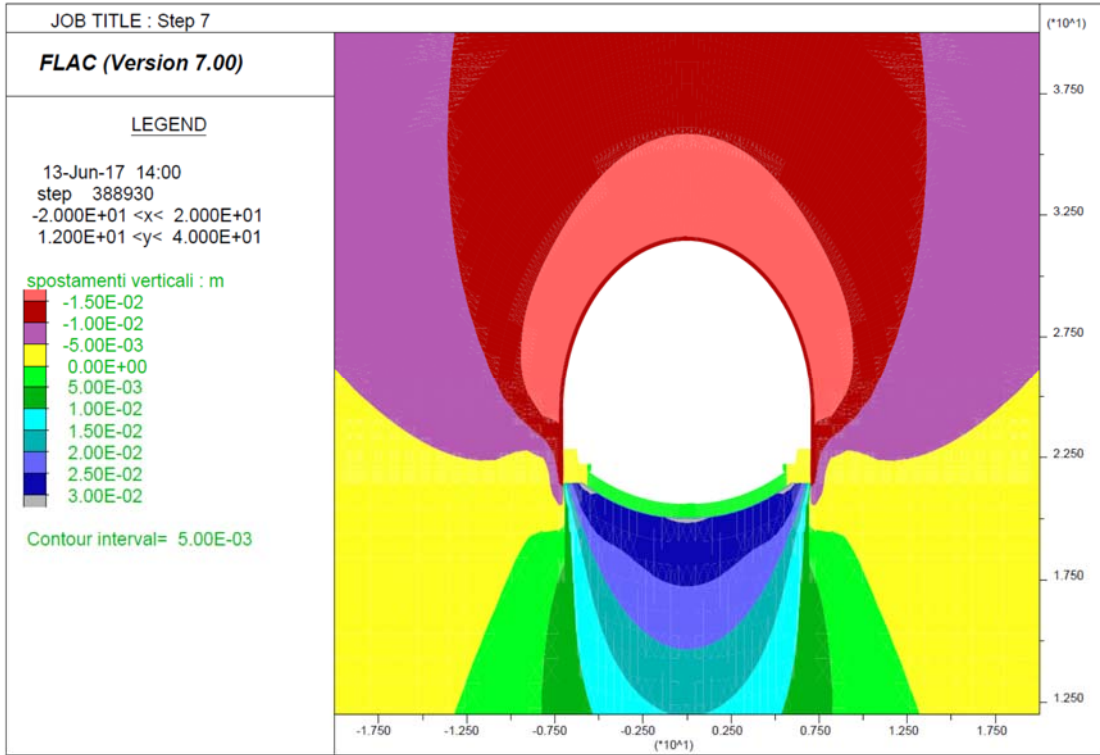
Step 6 – Avanzamento fino a 2D



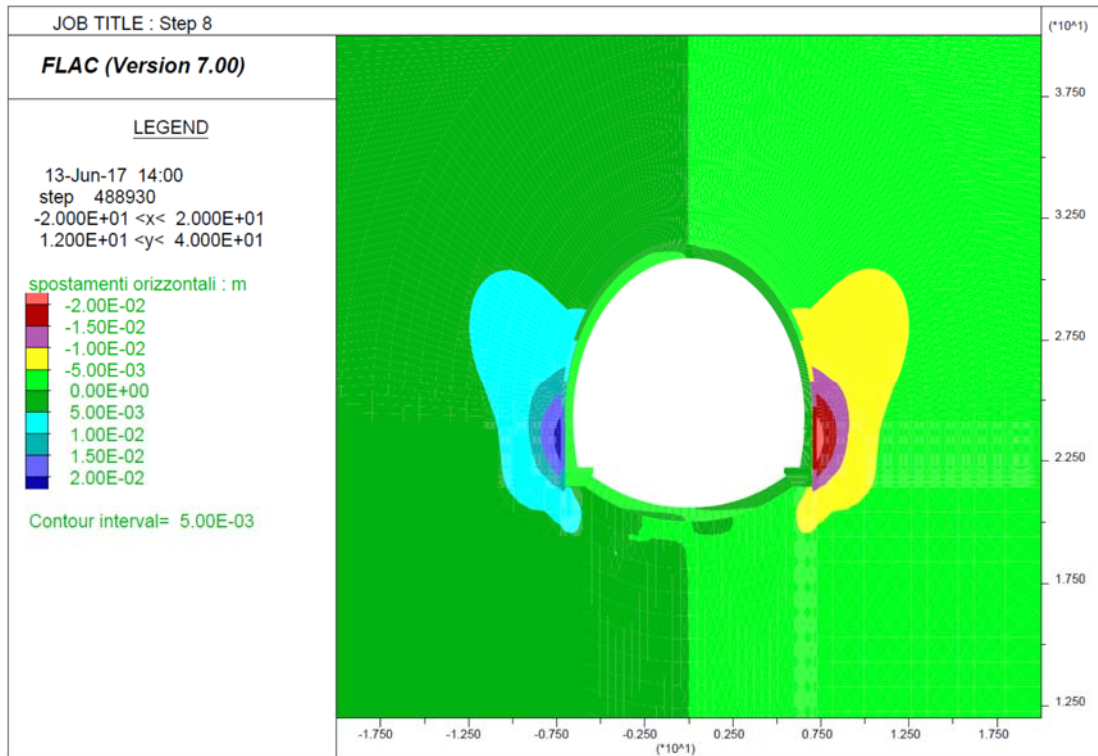
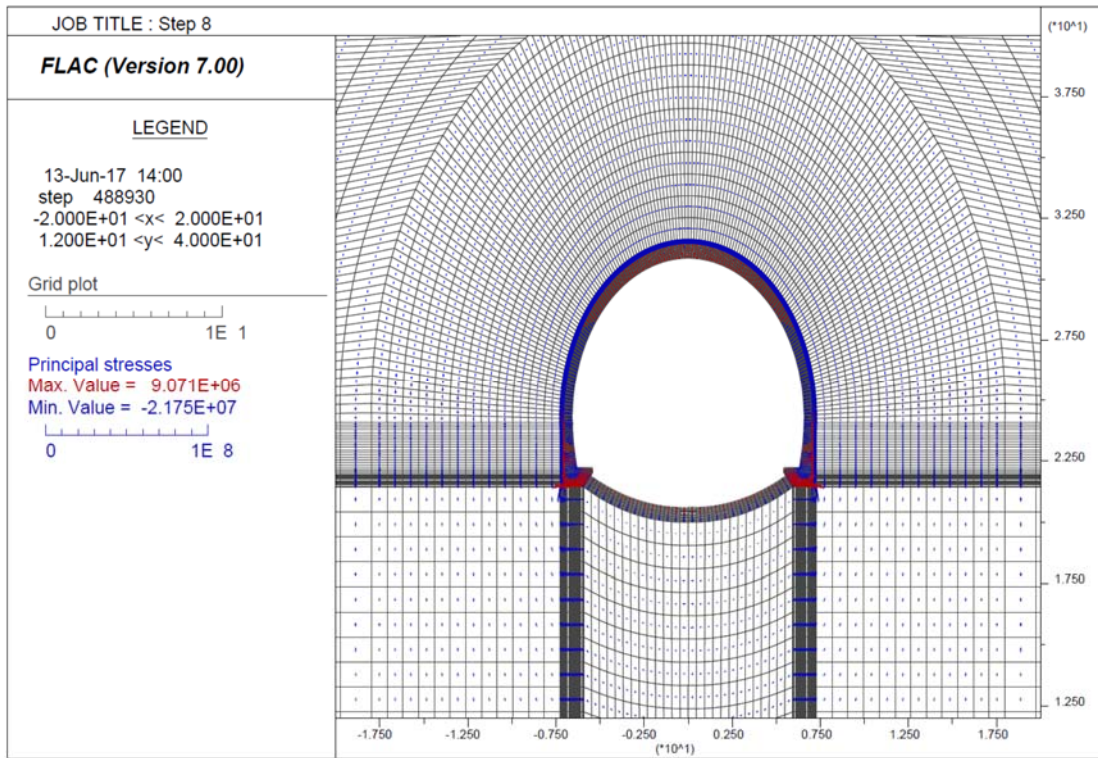


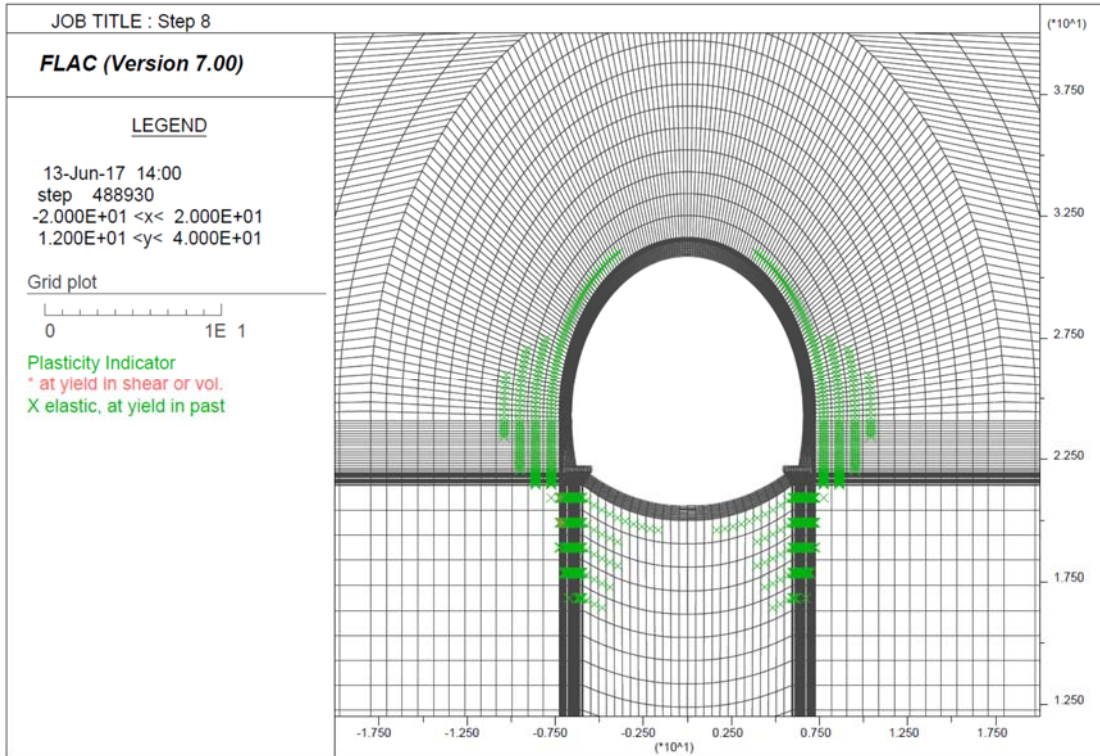
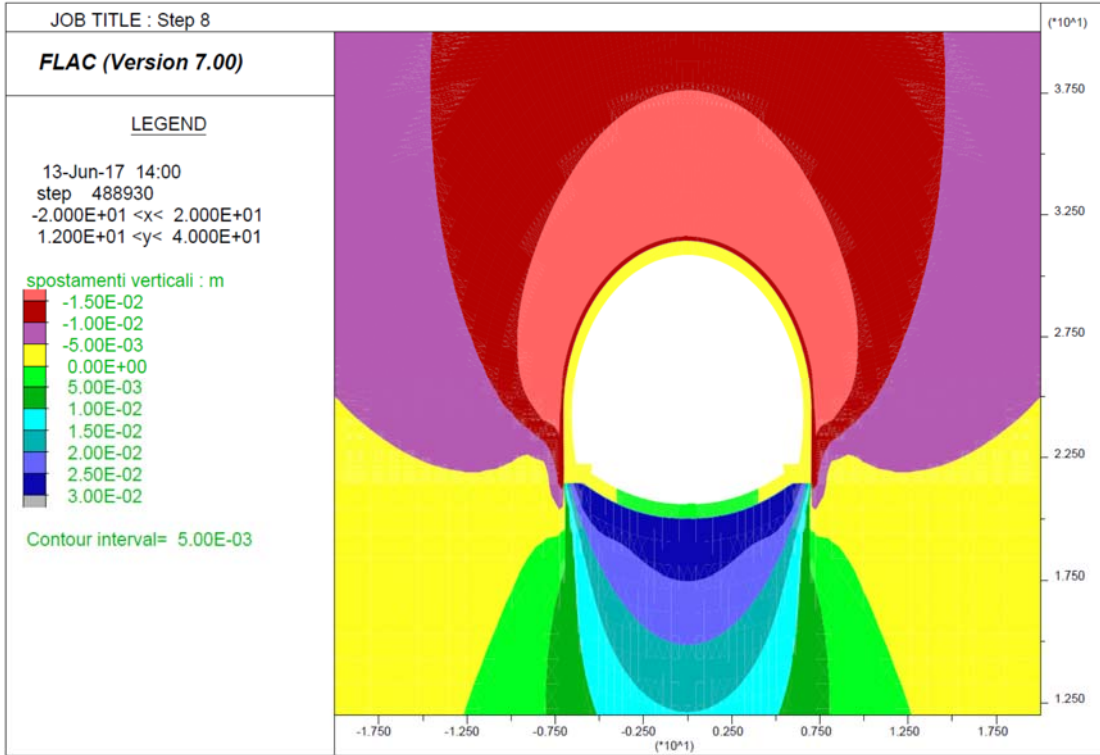
Step 7 - Getto arco rovescio e muretta a 2D e avanzamento fino a deformazioni esaurite



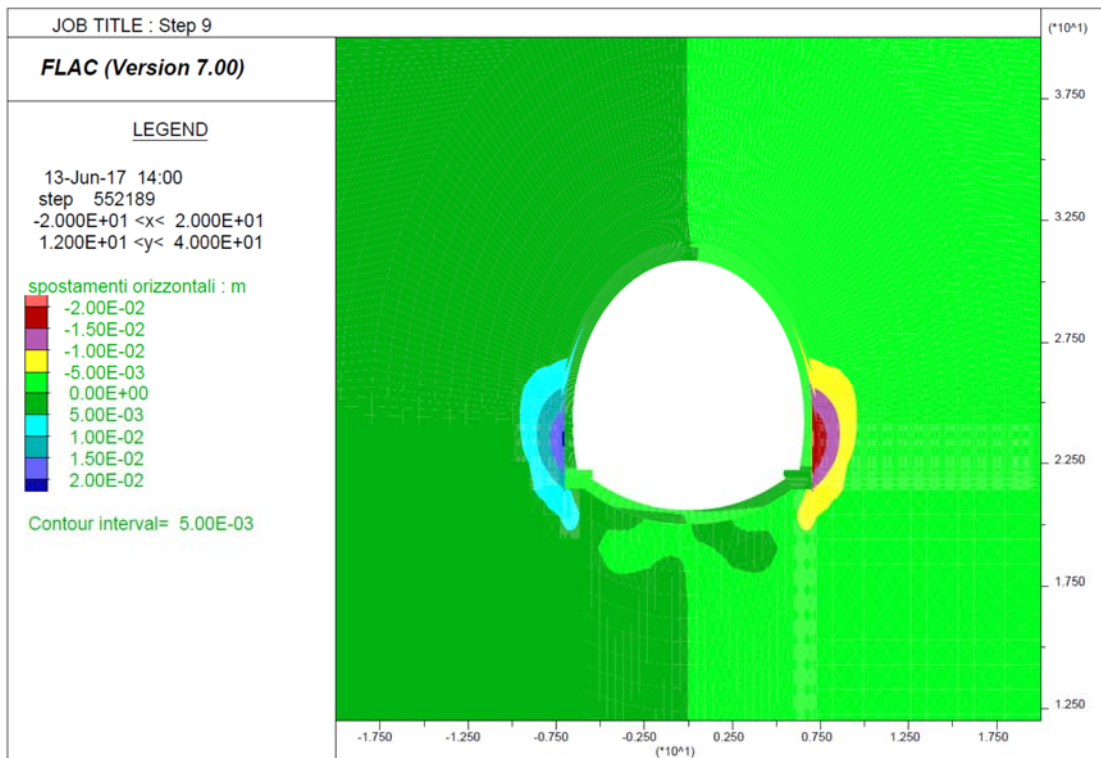
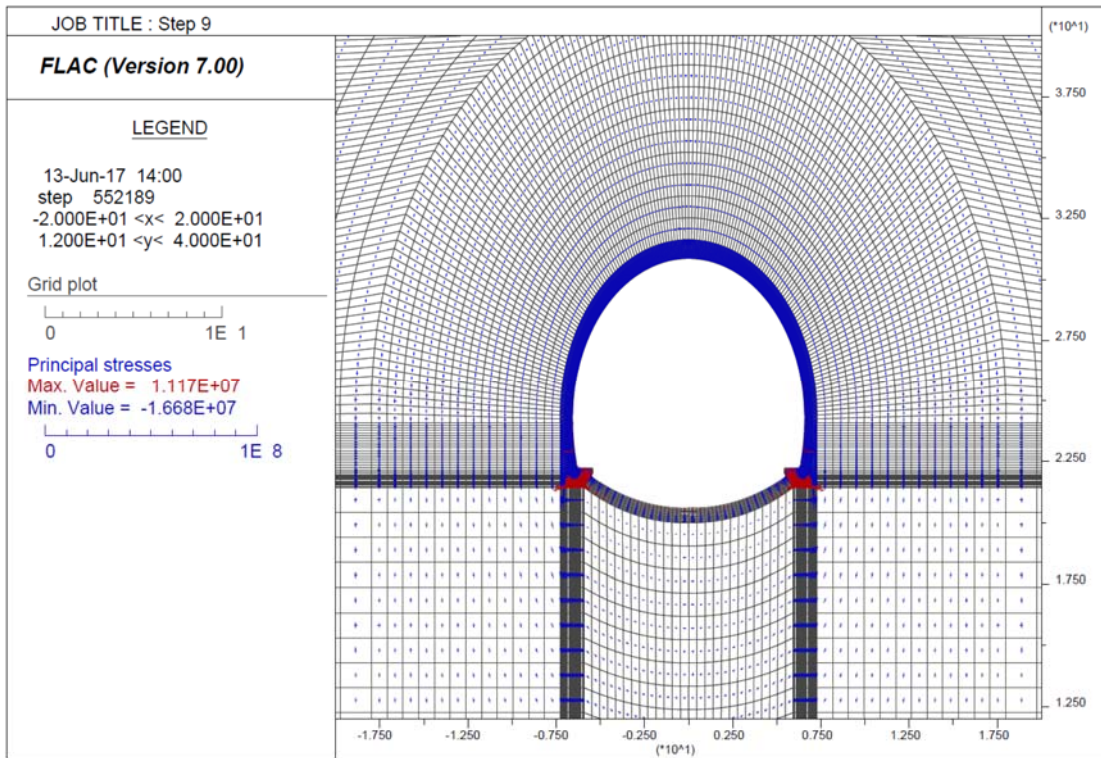


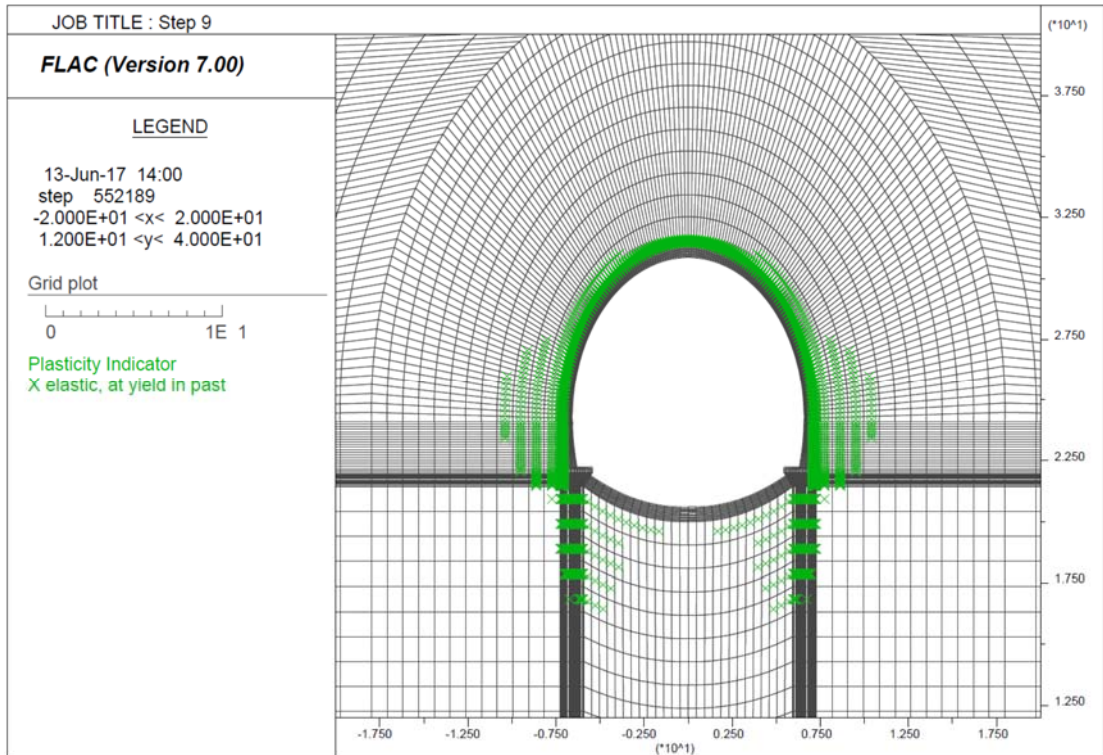
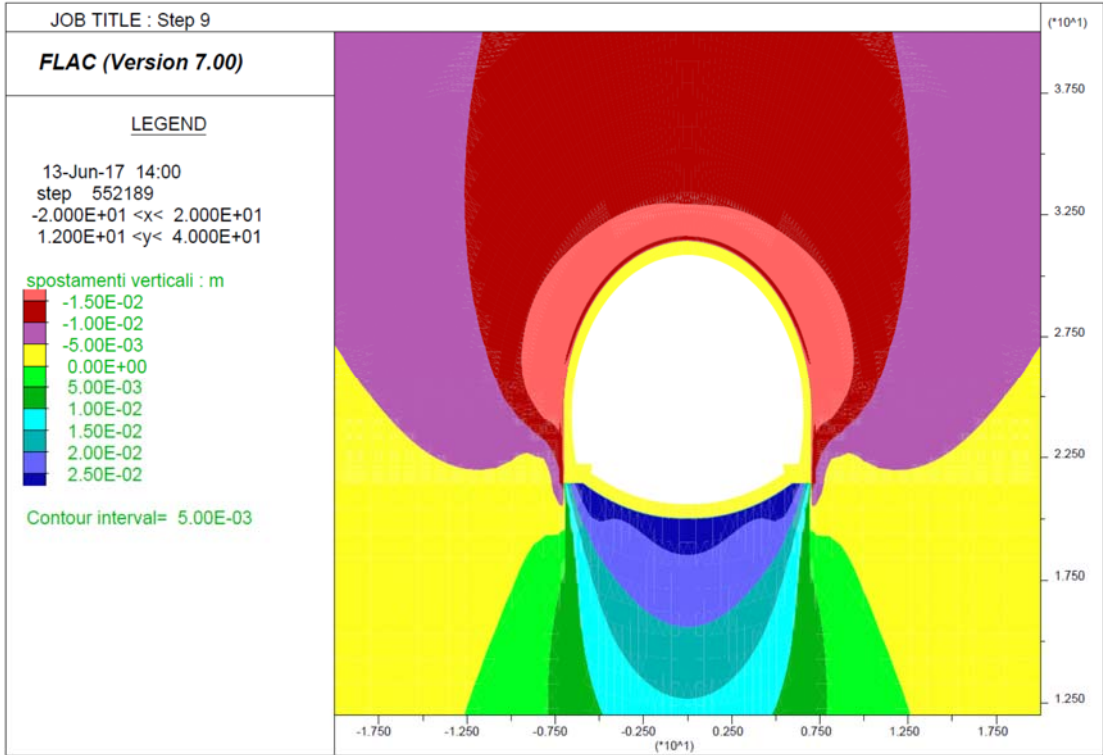
Step 8 - Getto Calotta





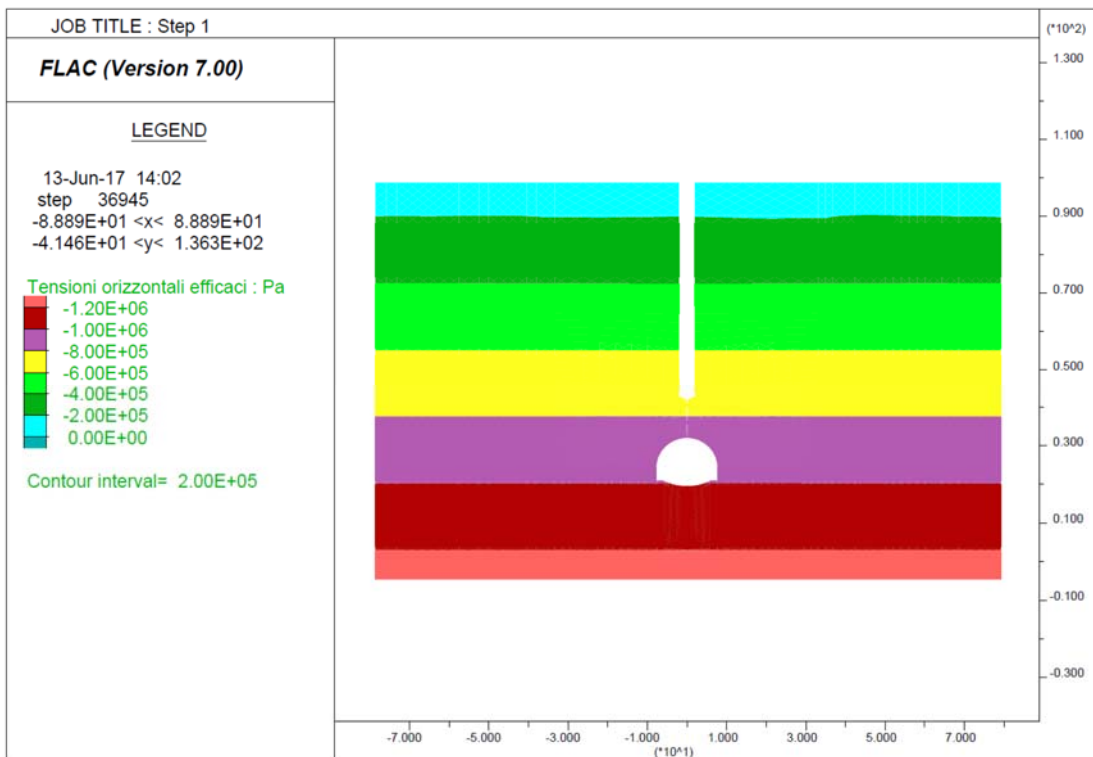
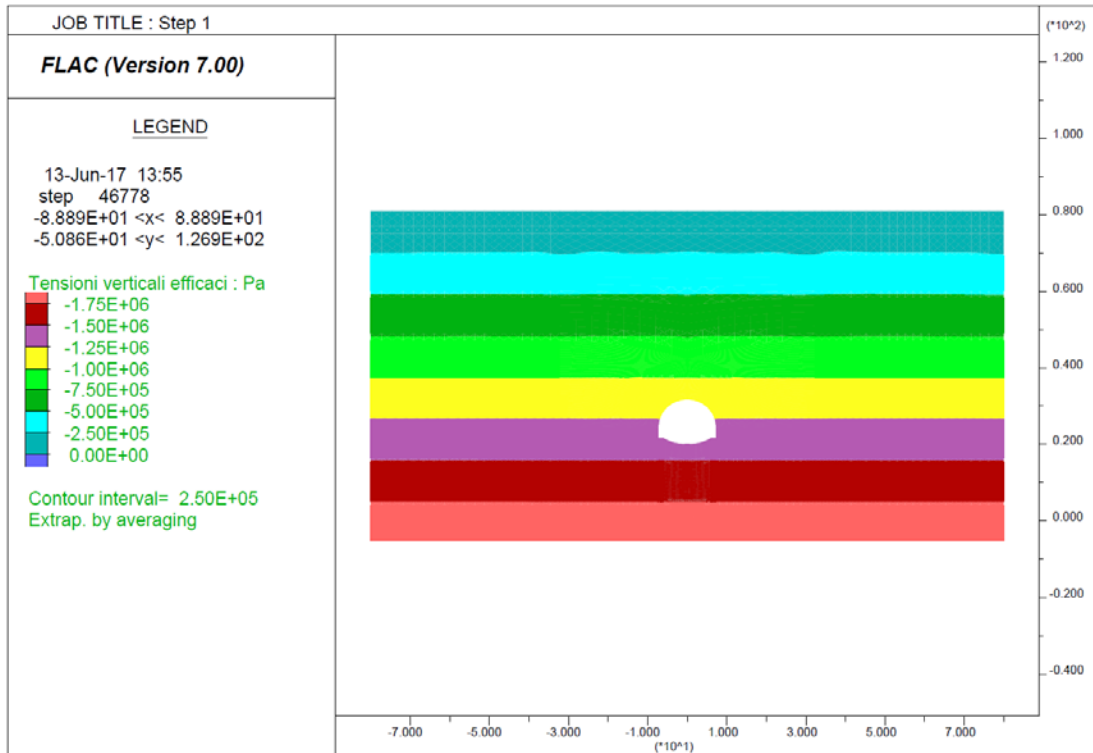
Step 9 - Decadimento dei parametri di resistenza del rivestimento provvisorio



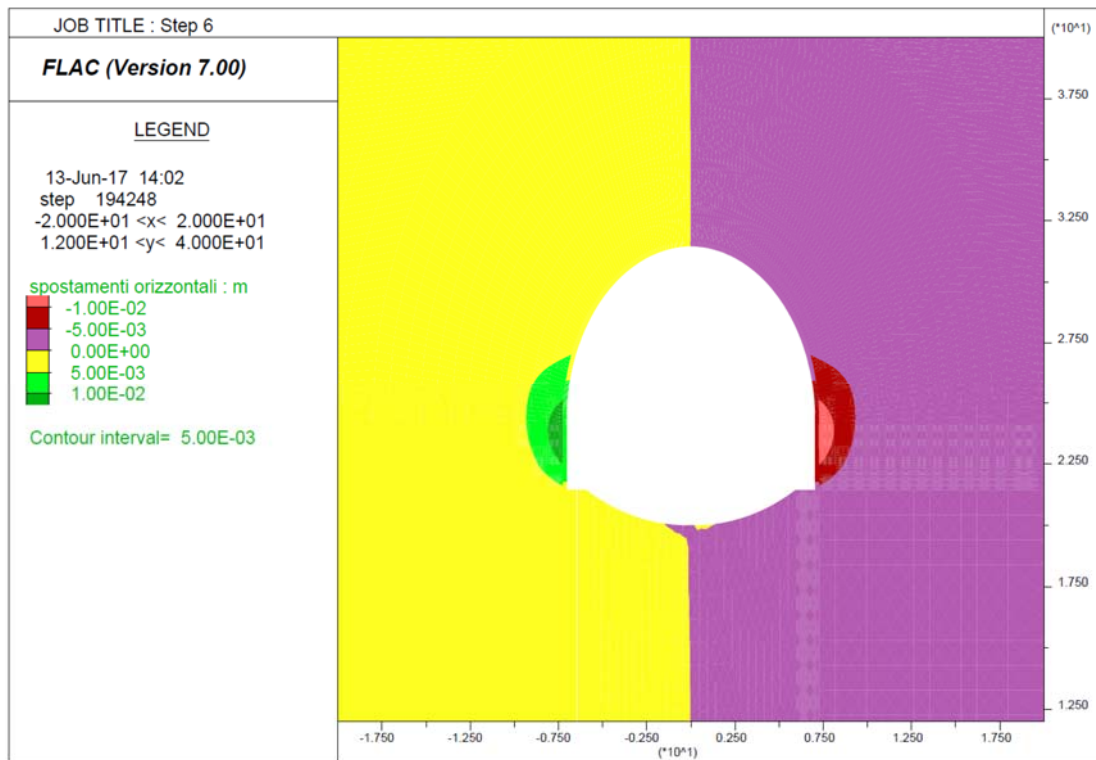
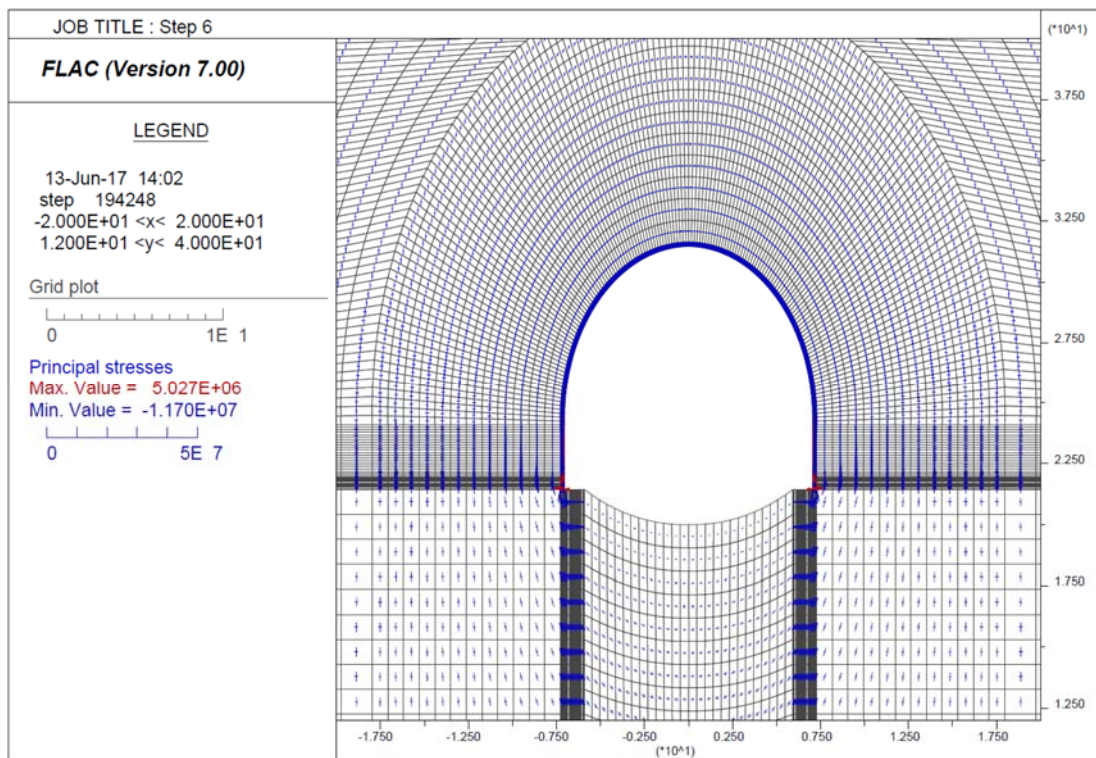


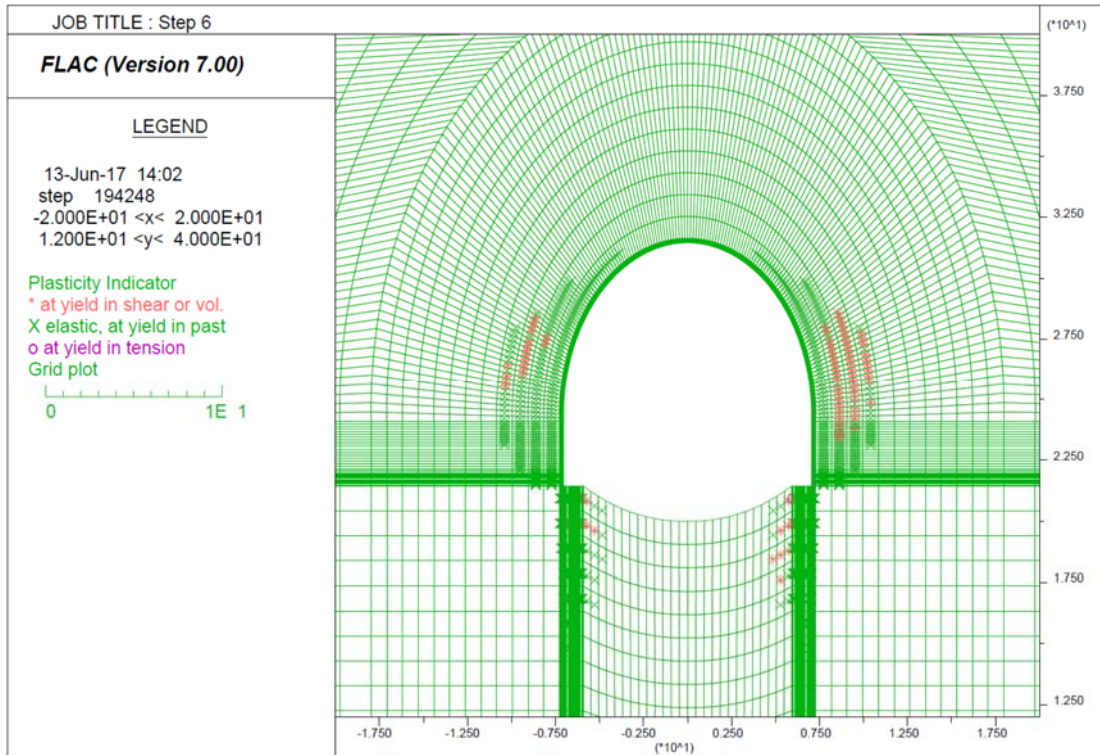
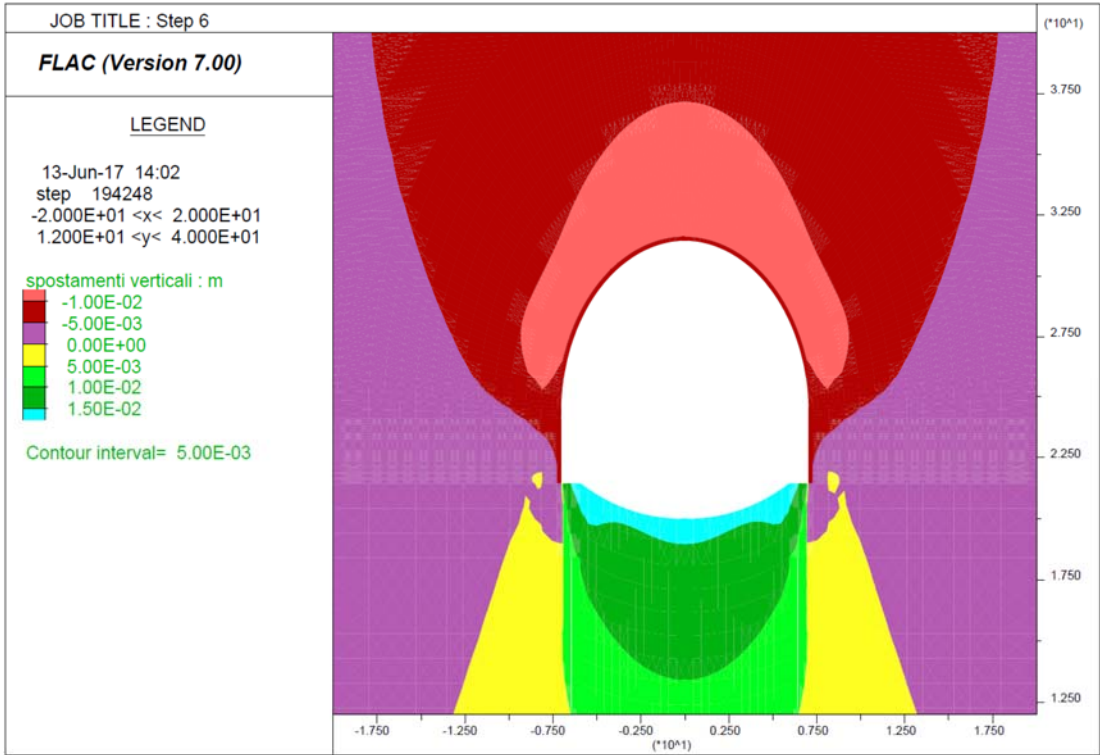
Output Flac – Sezione tipo B2 – Parametri res max – Copertura di calcolo = 50 m

Step 1 – Tensioni litostatiche

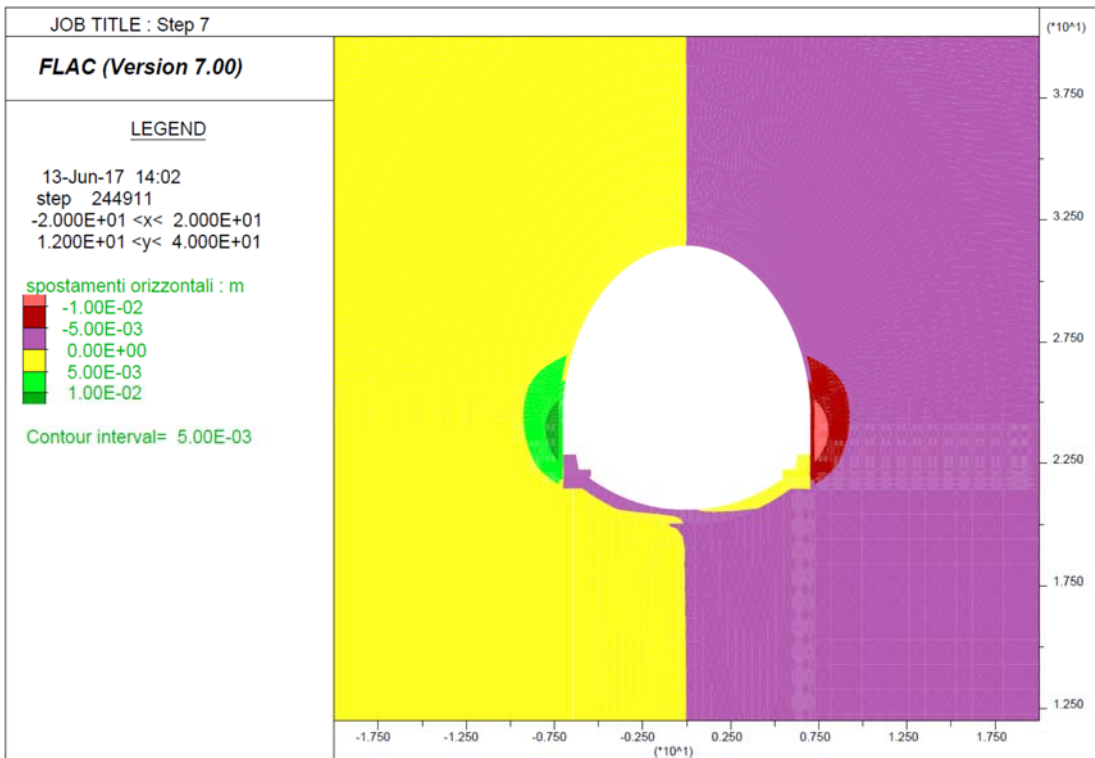
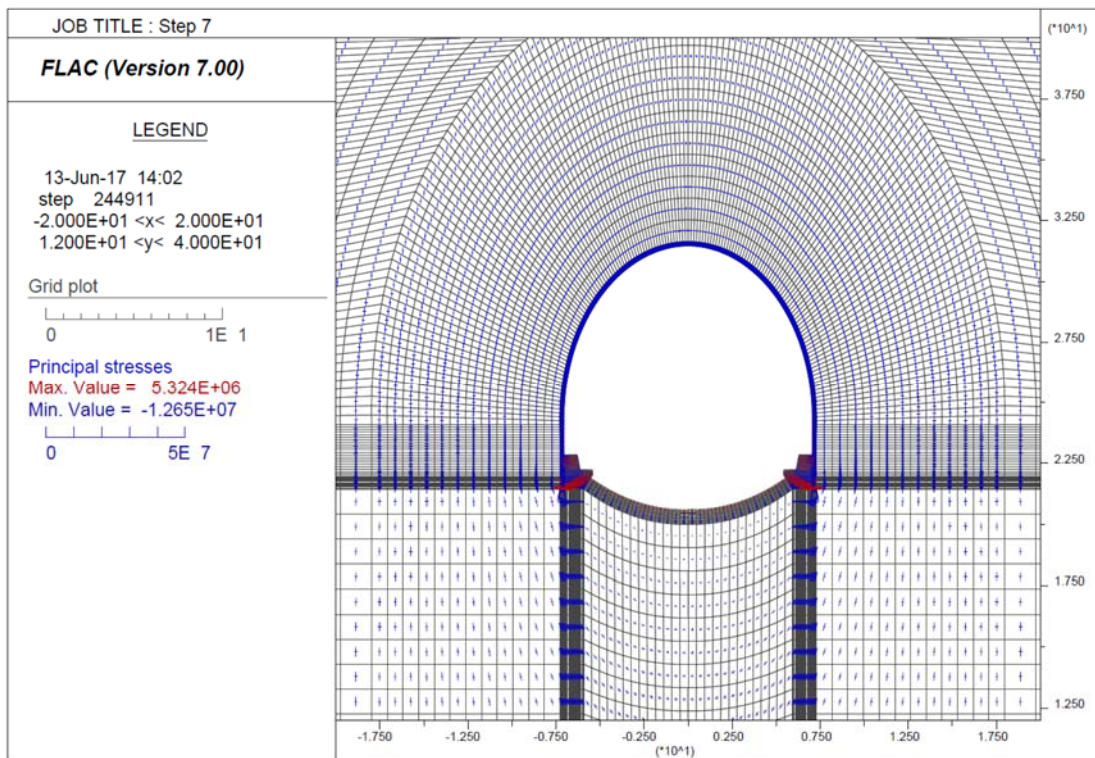


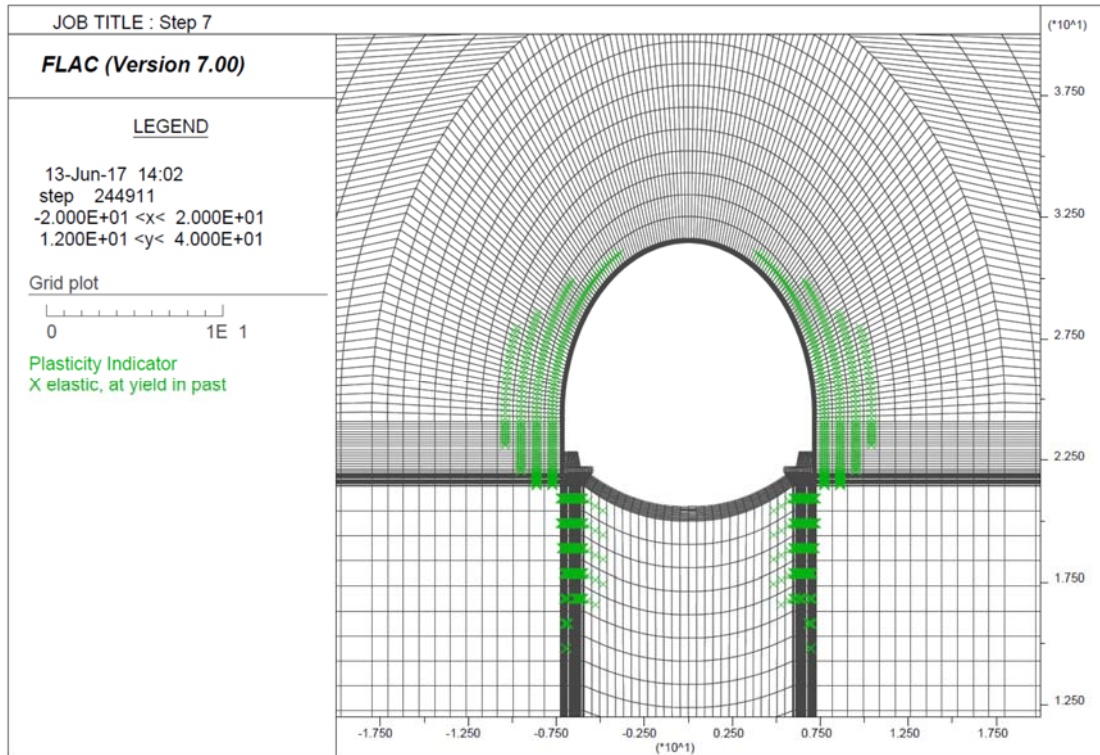
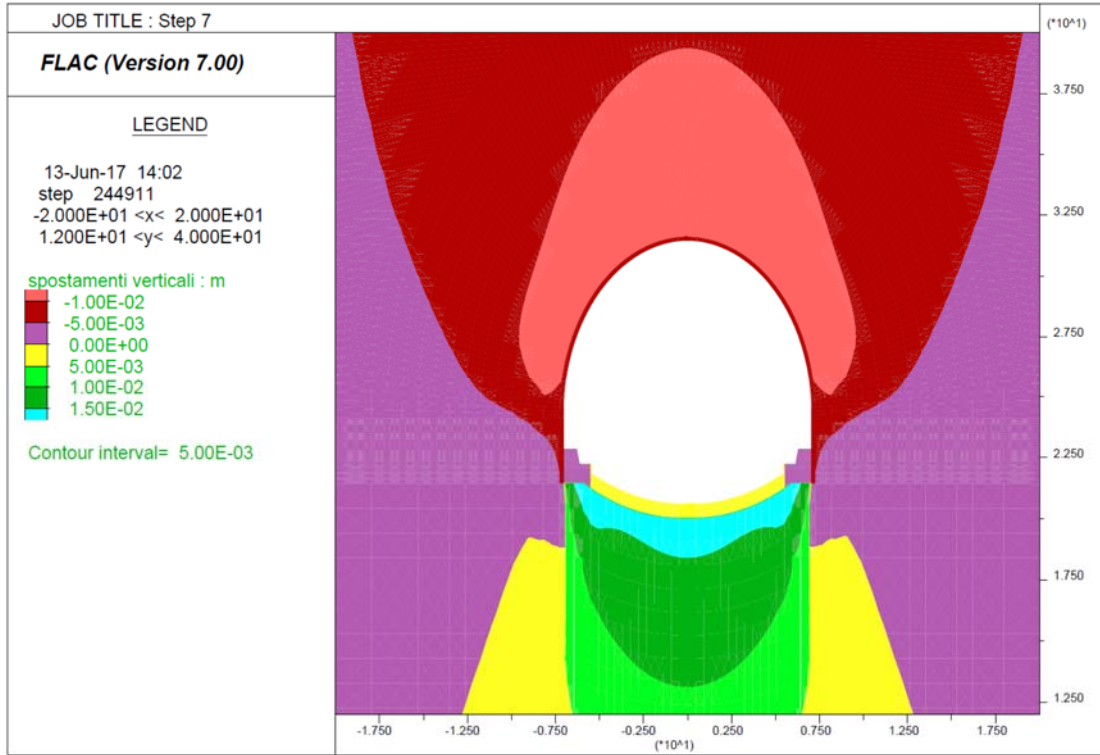
Step 6 – Avanzamento fino a 2D



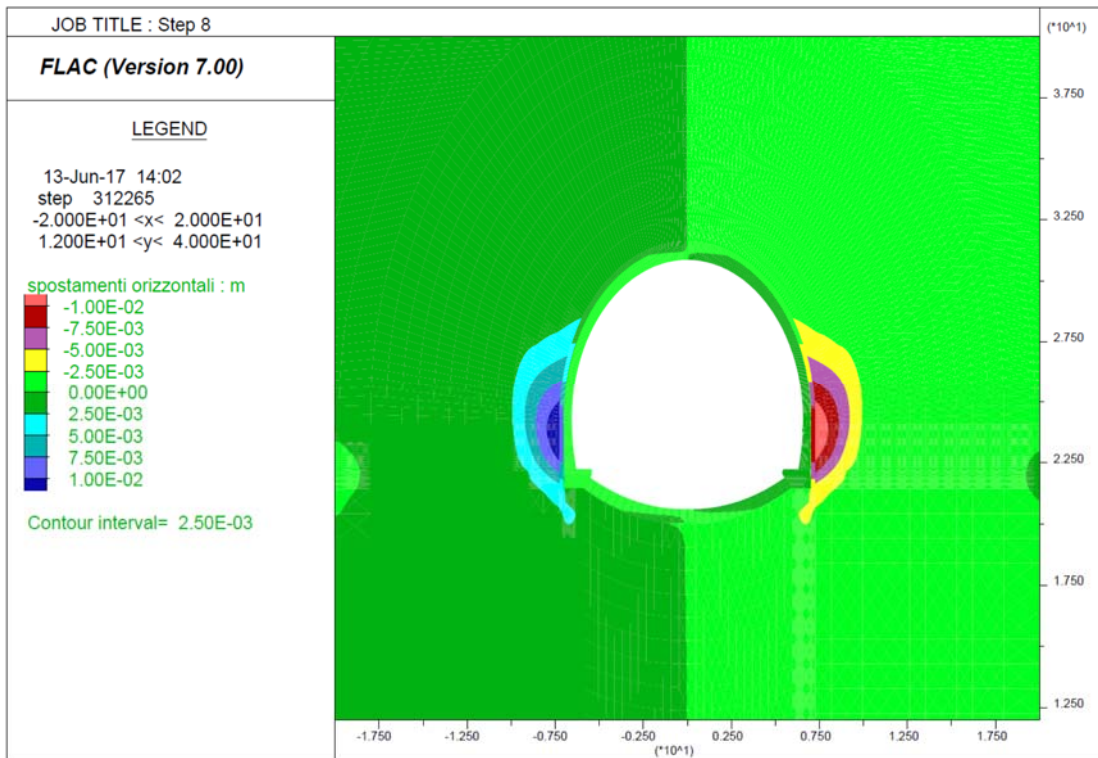
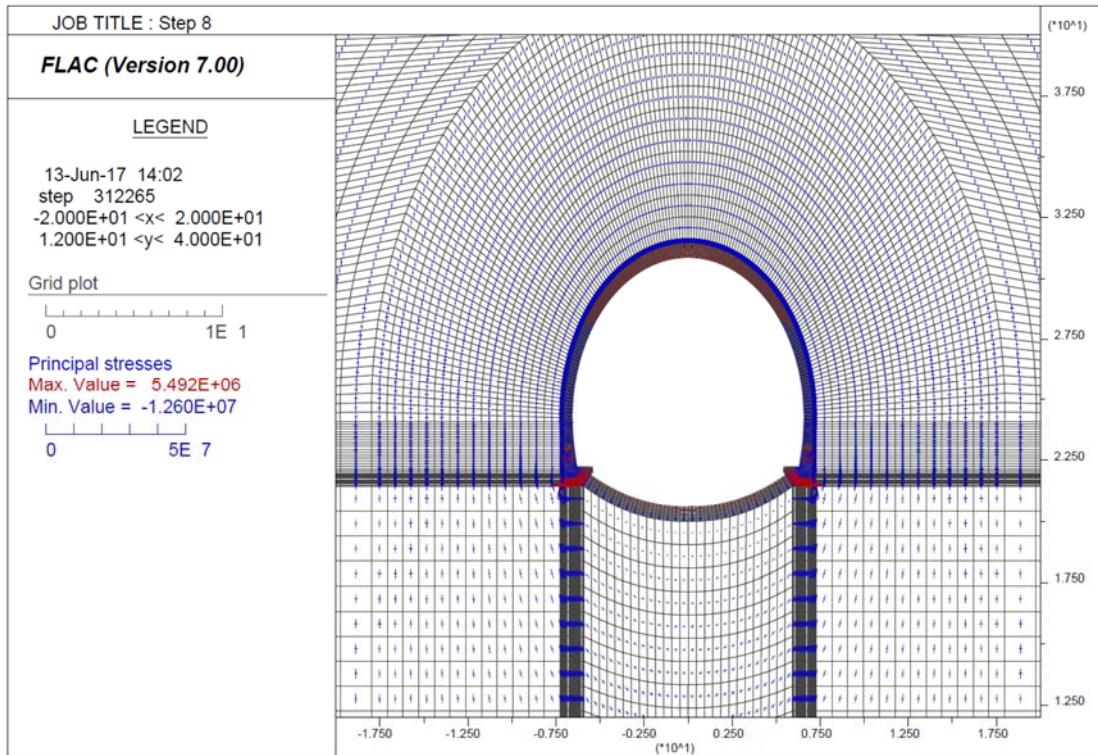


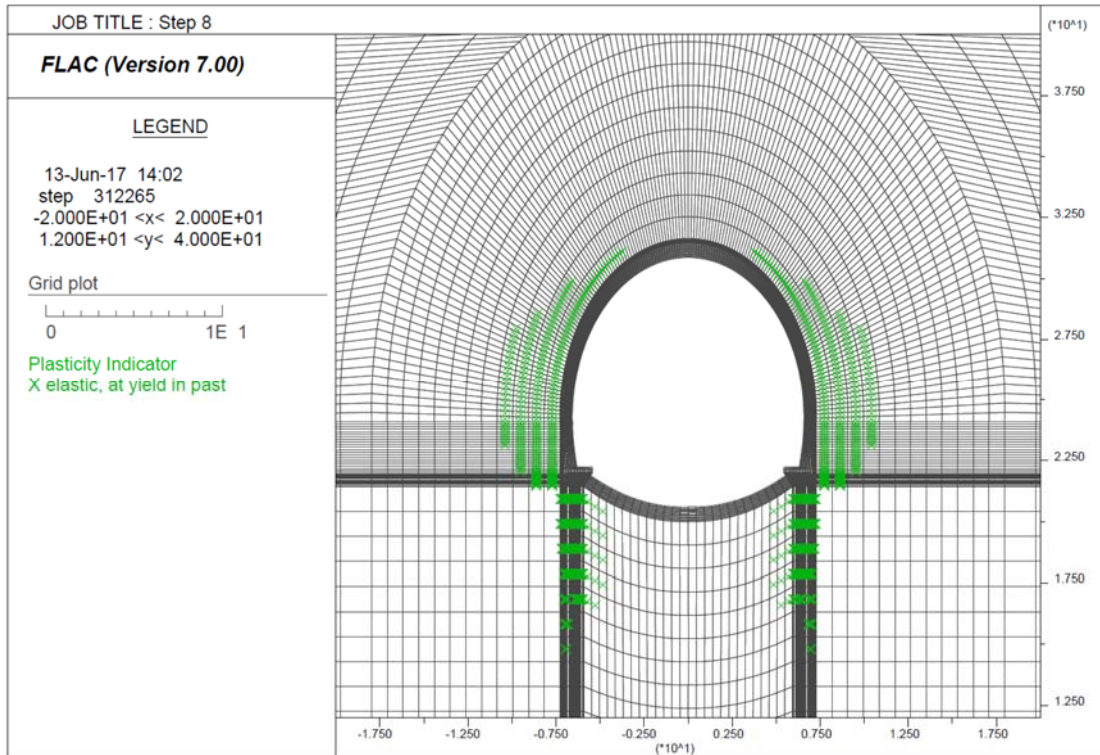
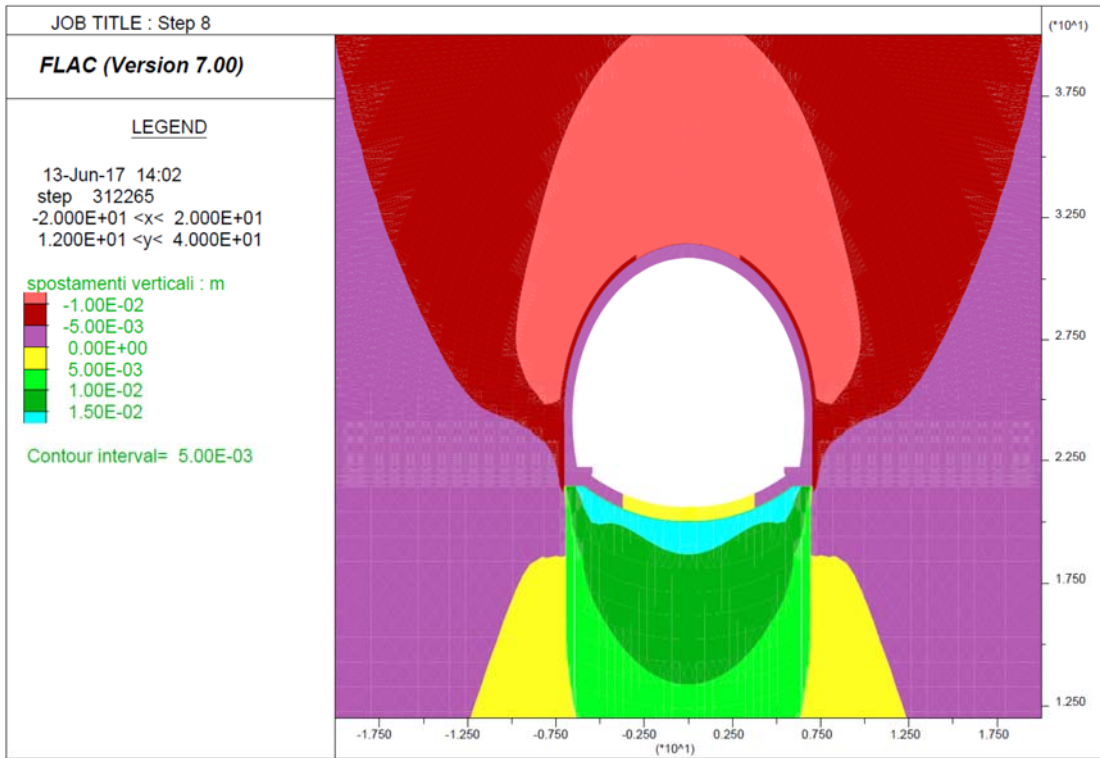
Step 7 - Getto arco rovescio e muretta a 2D e avanzamento fino a deformazioni esaurite



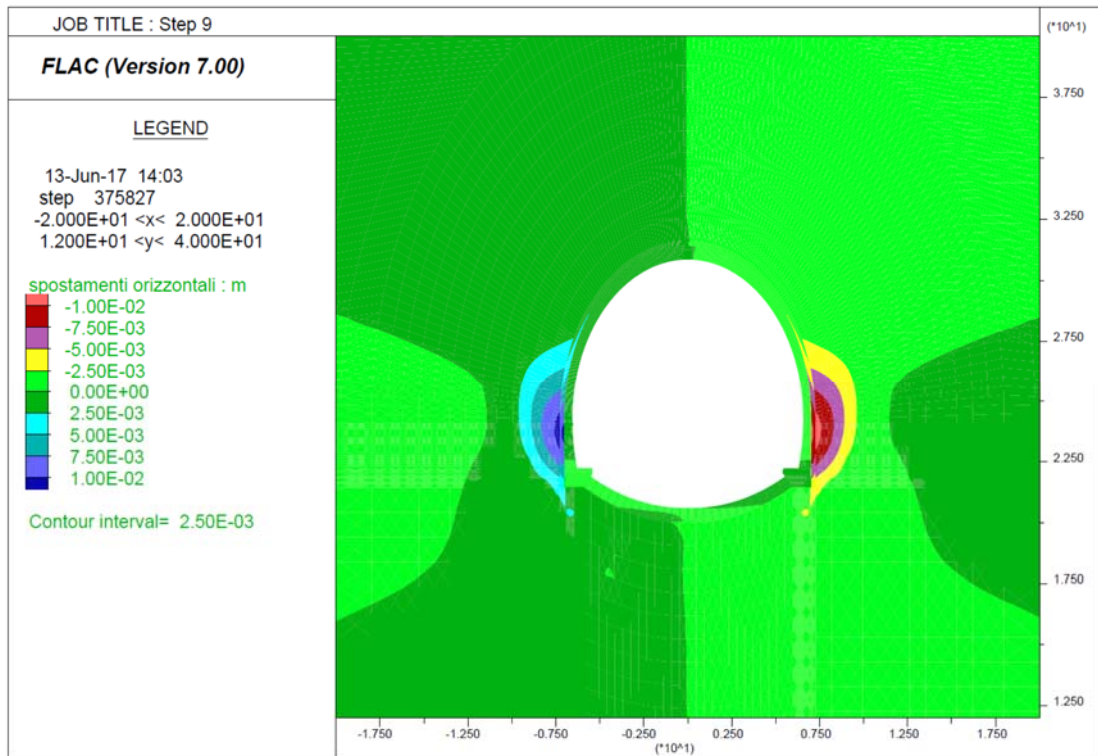
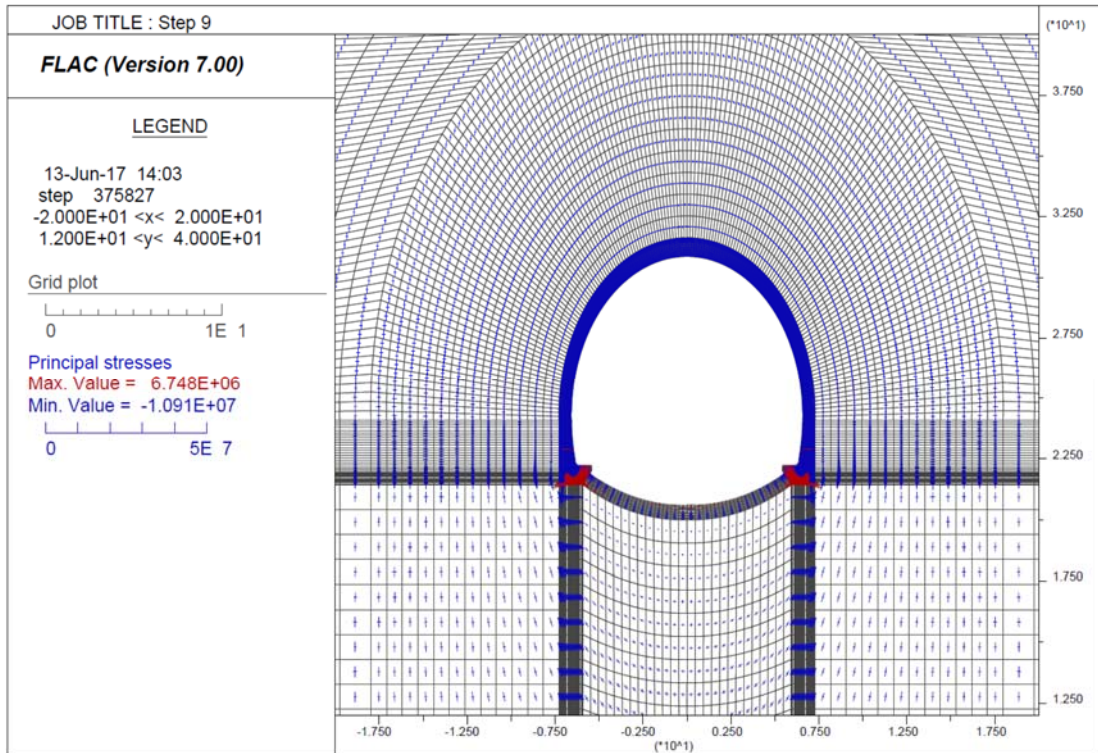


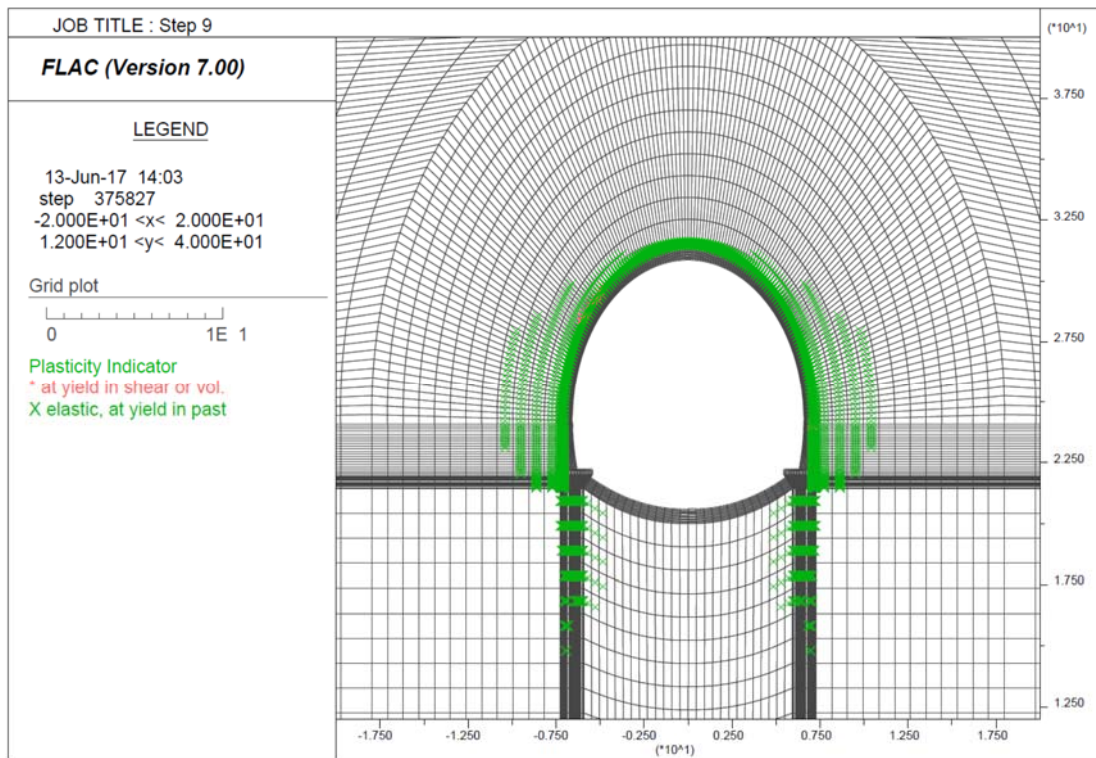
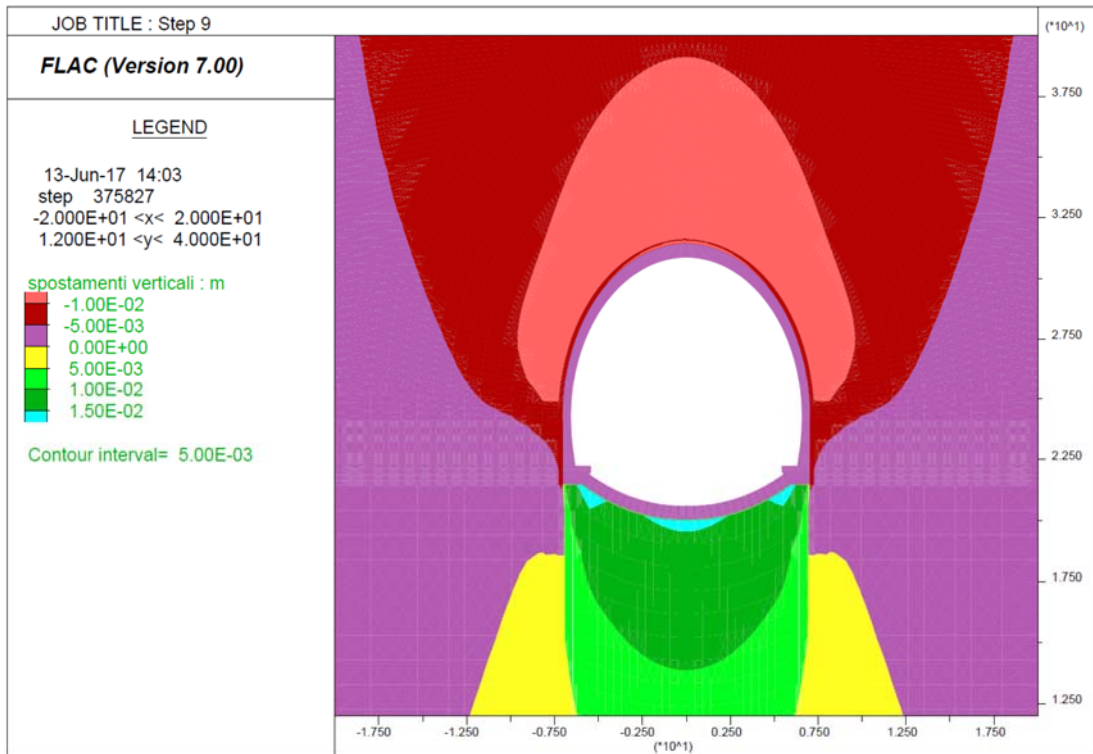
Step 8 - Getto Calotta





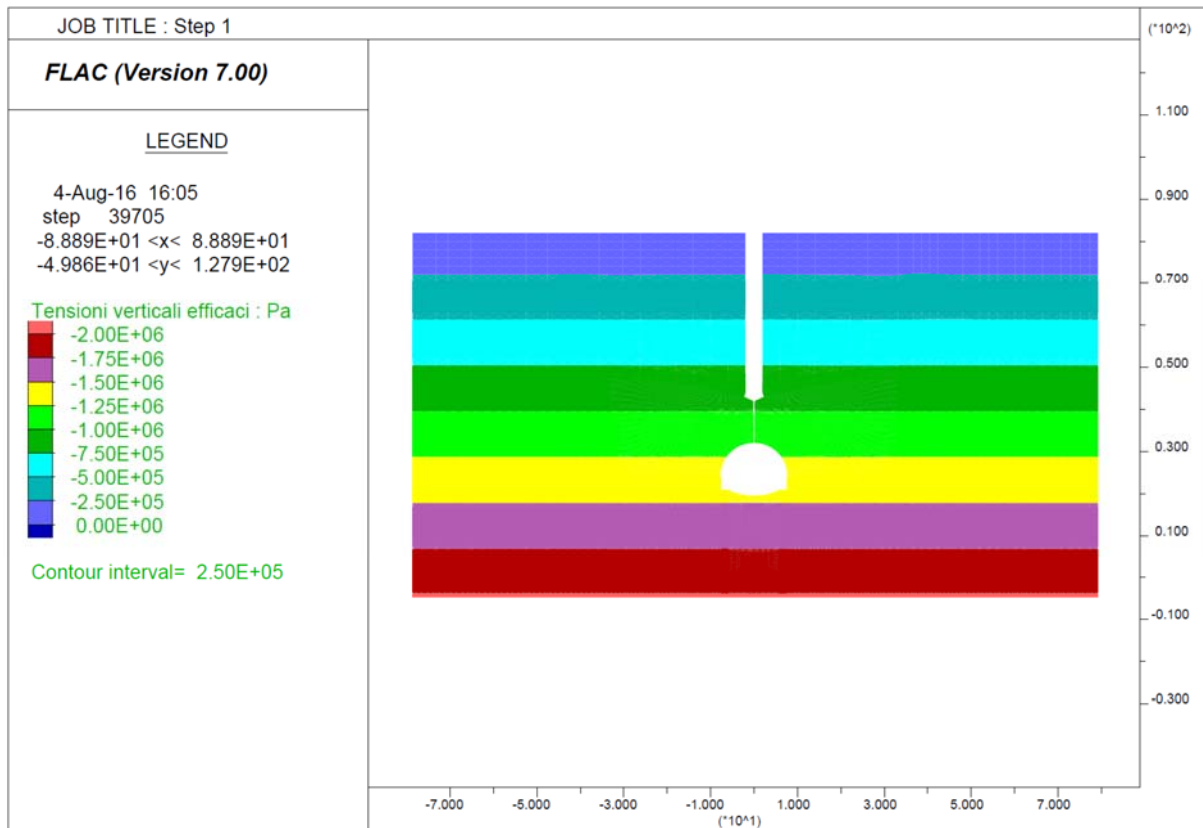
Step 9 - Decadimento dei parametri di resistenza del rivestimento provvisorio



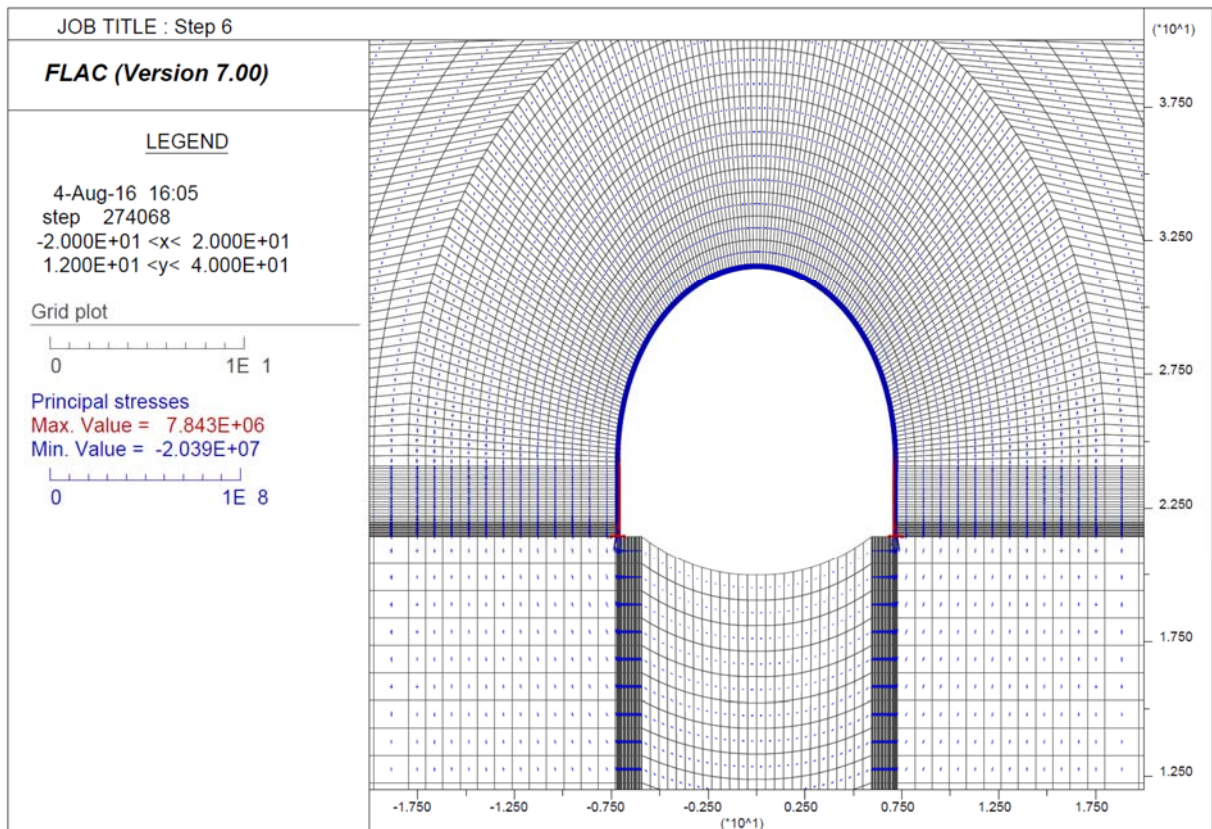


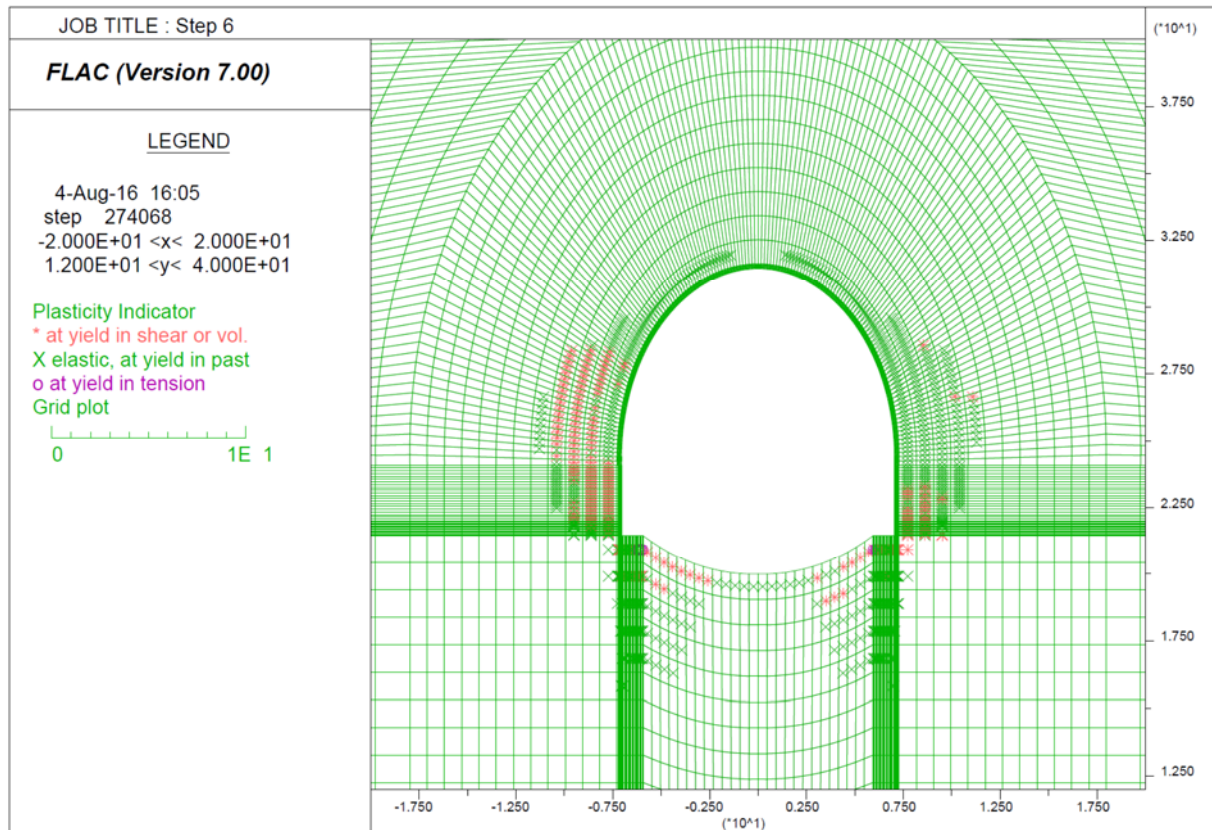
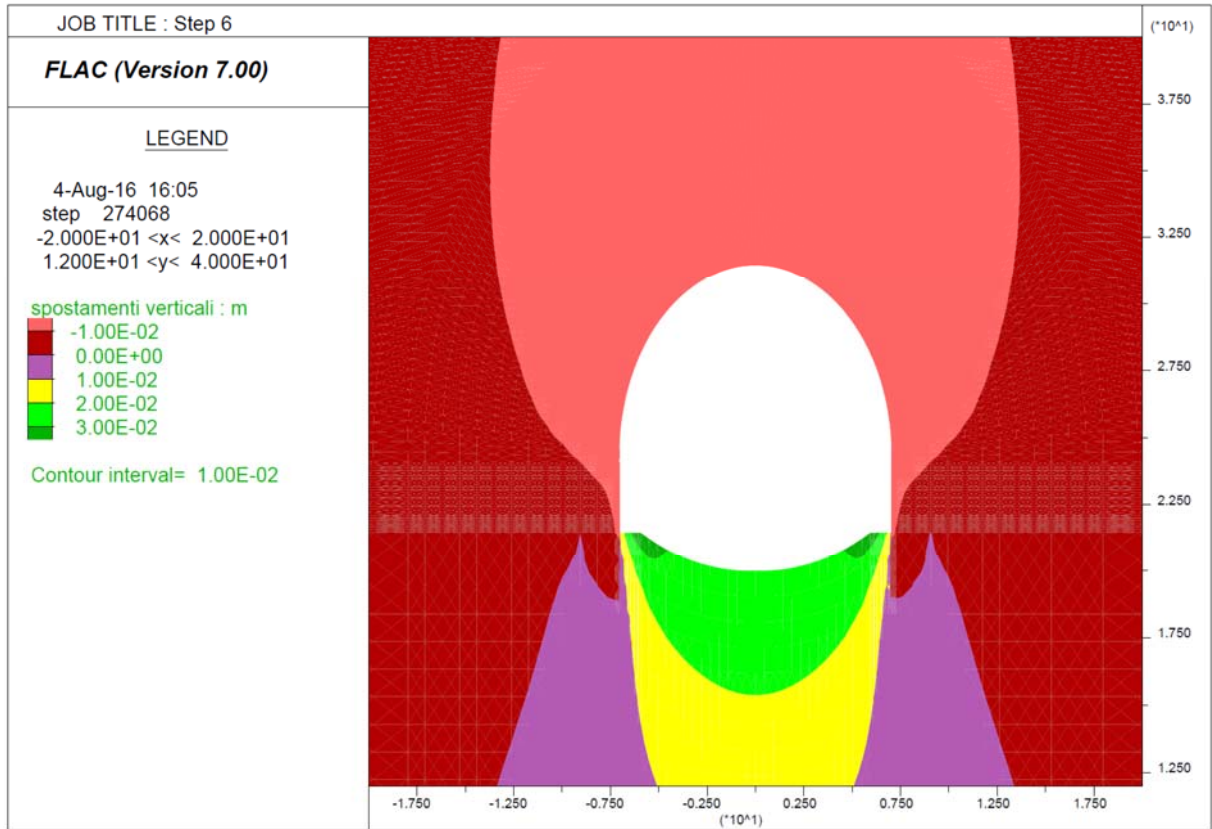
Output Flac – Sezione tipo B0 – Parametri res min – Copertura di calcolo = 50 m

Step 1 – Tensioni litostatiche

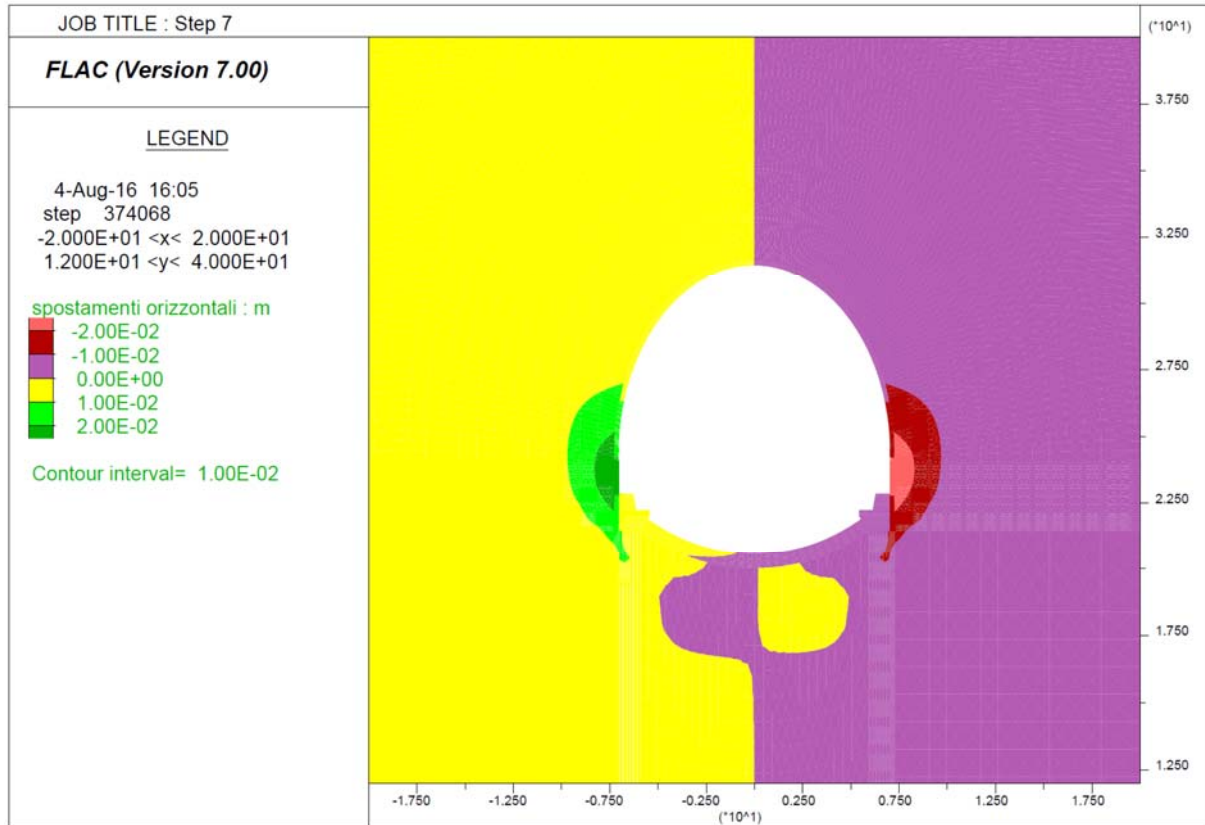
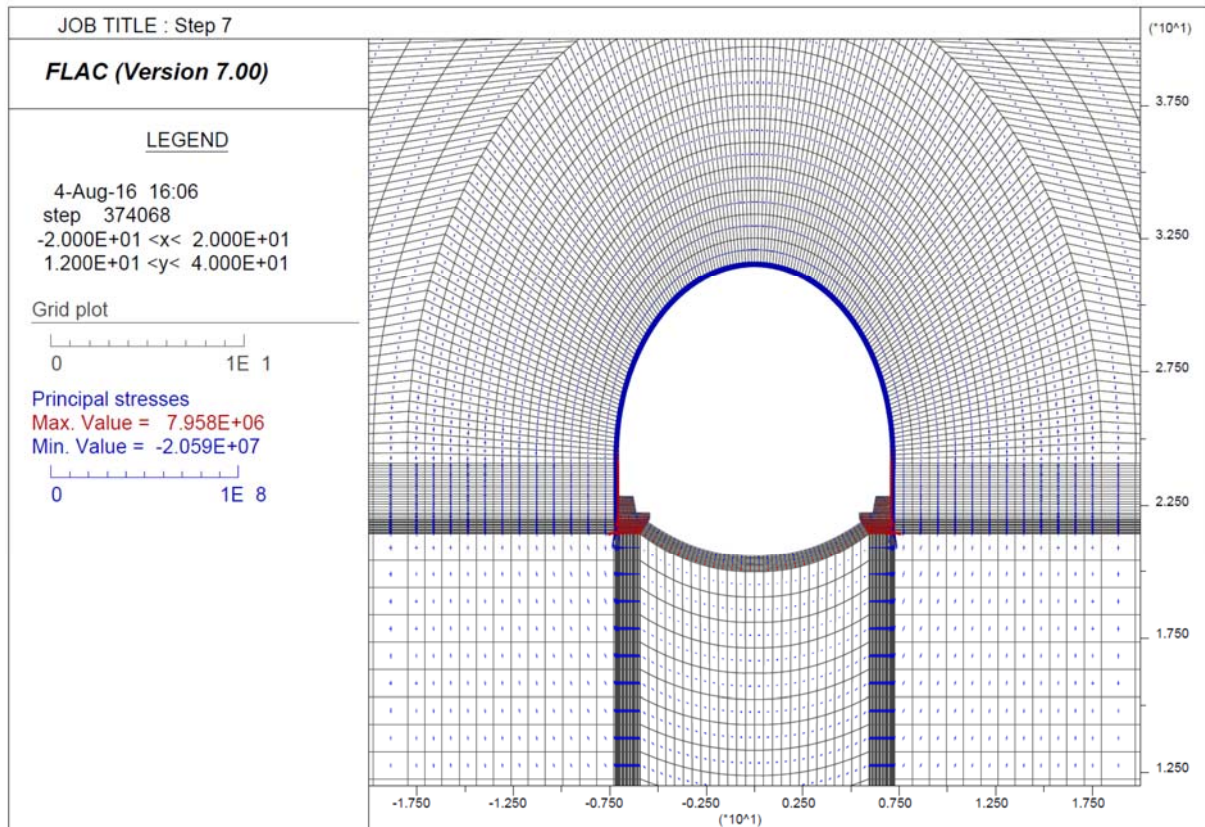


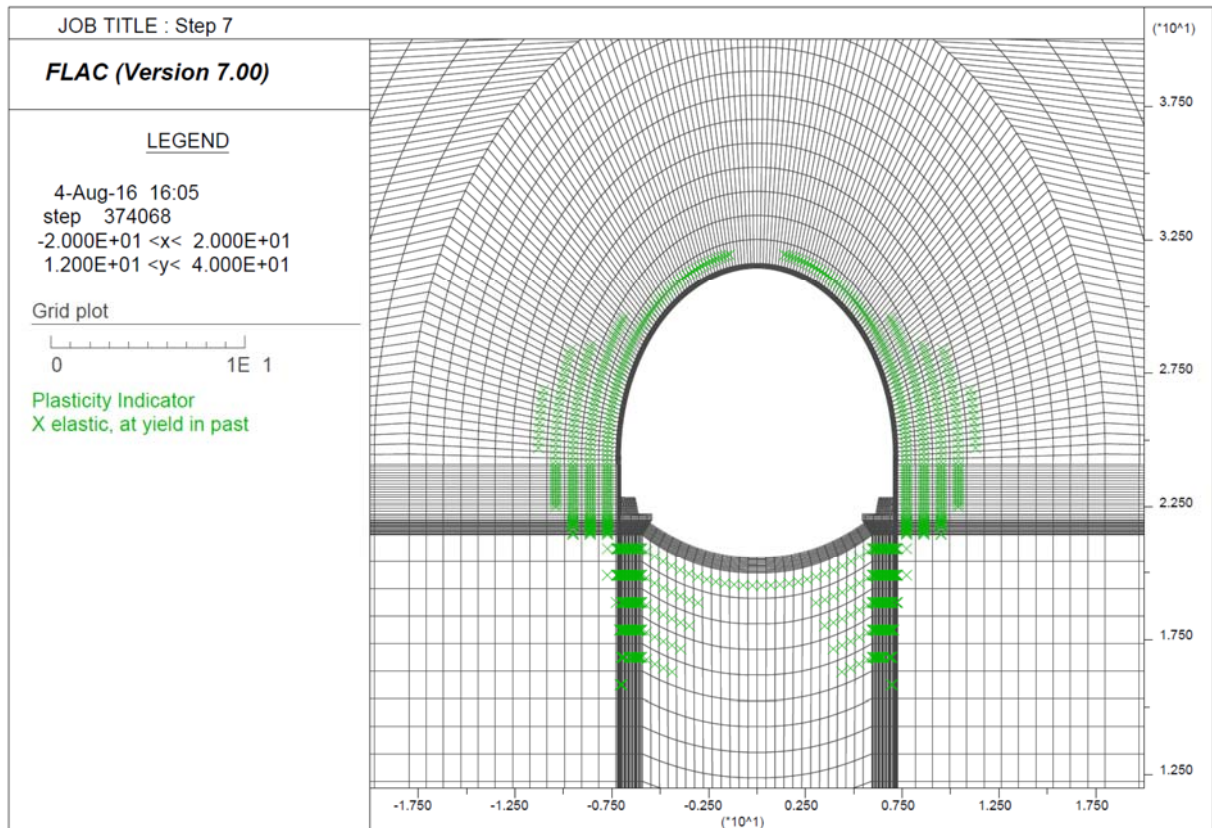
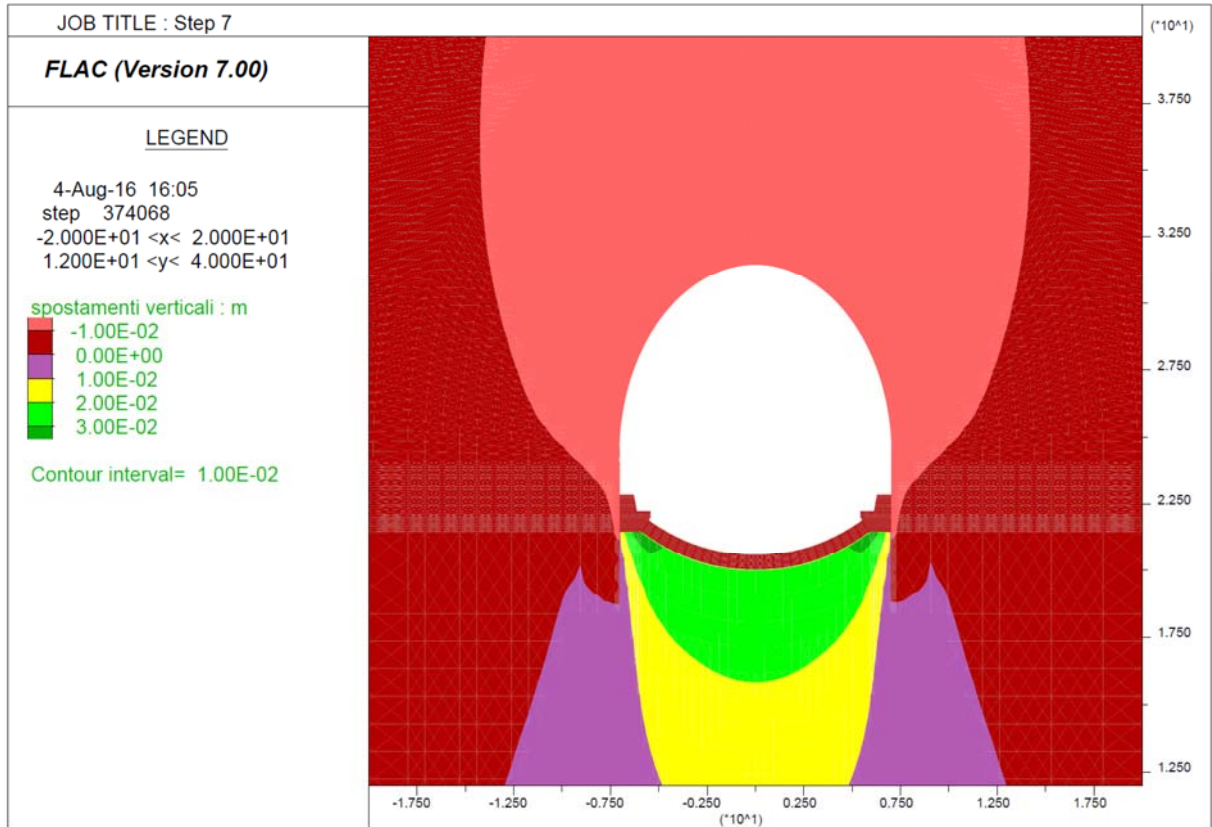
Step 6 – Avanzamento fino a deformazioni esaurite



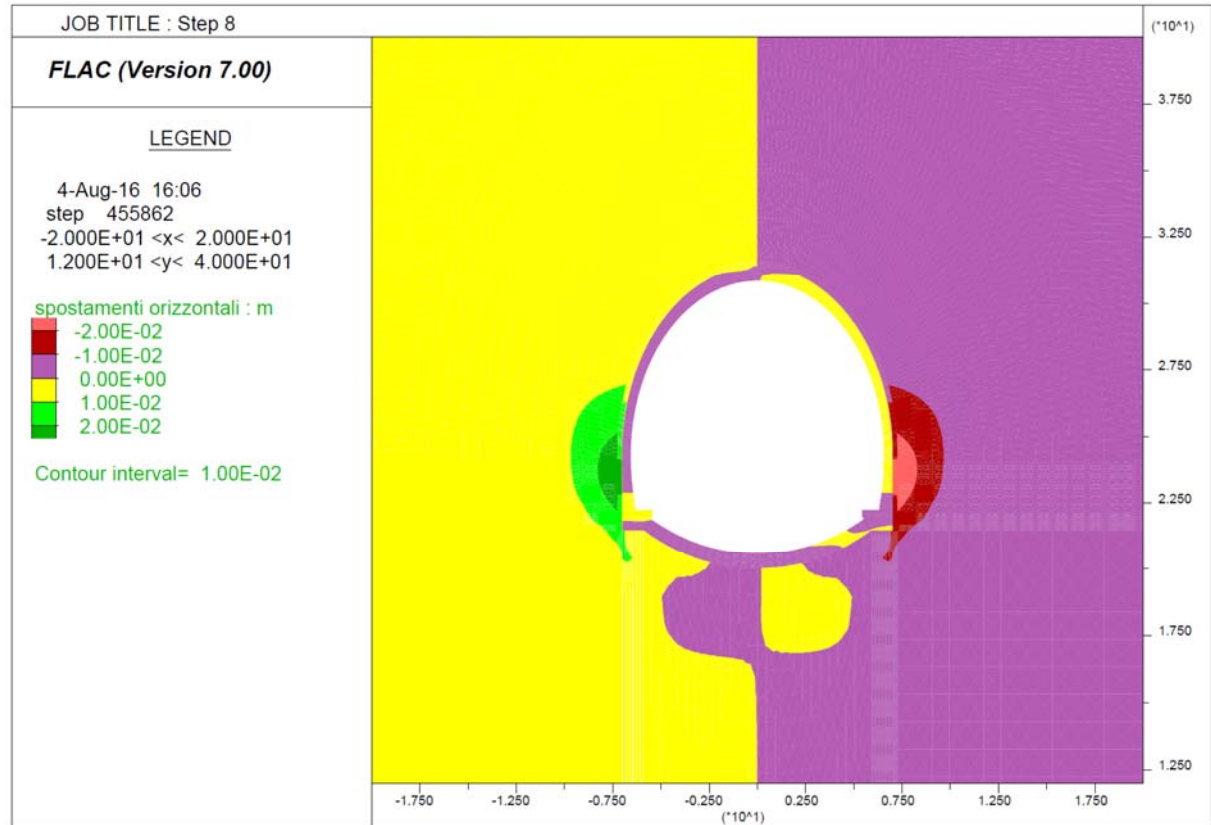
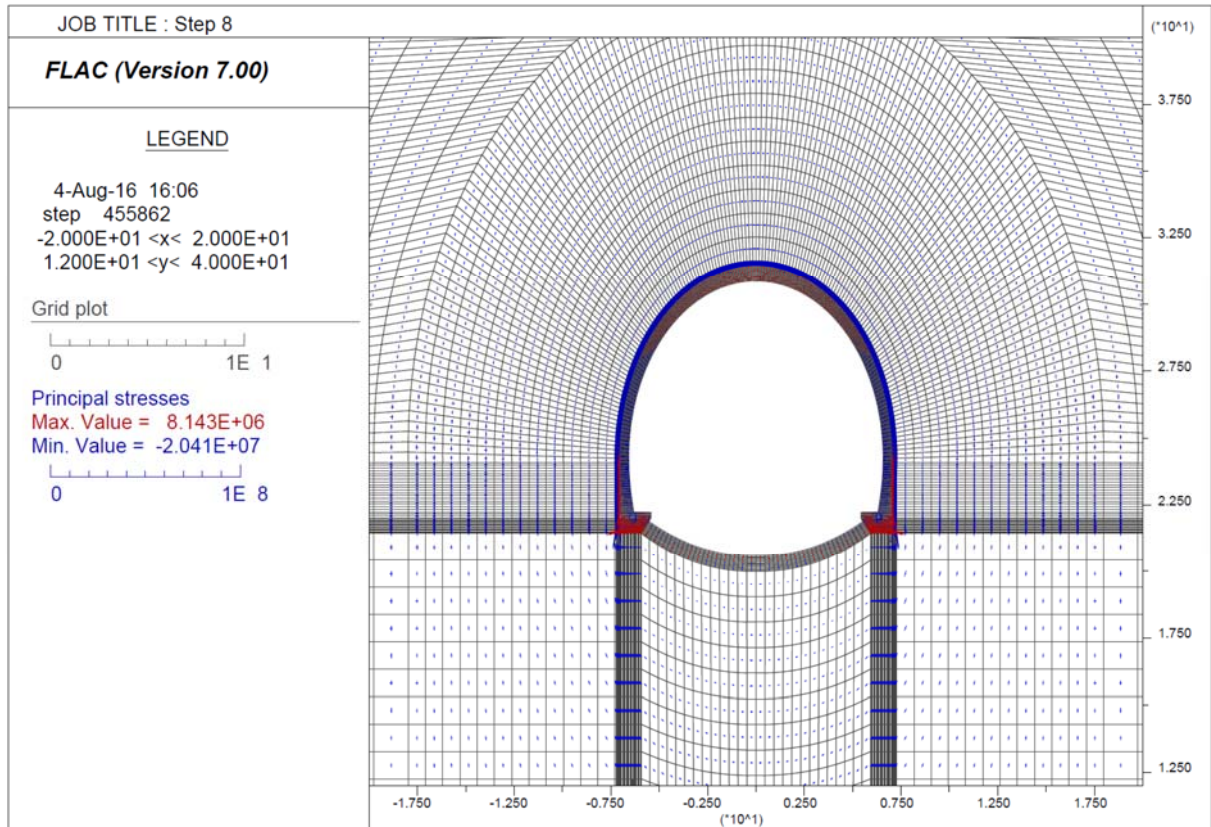


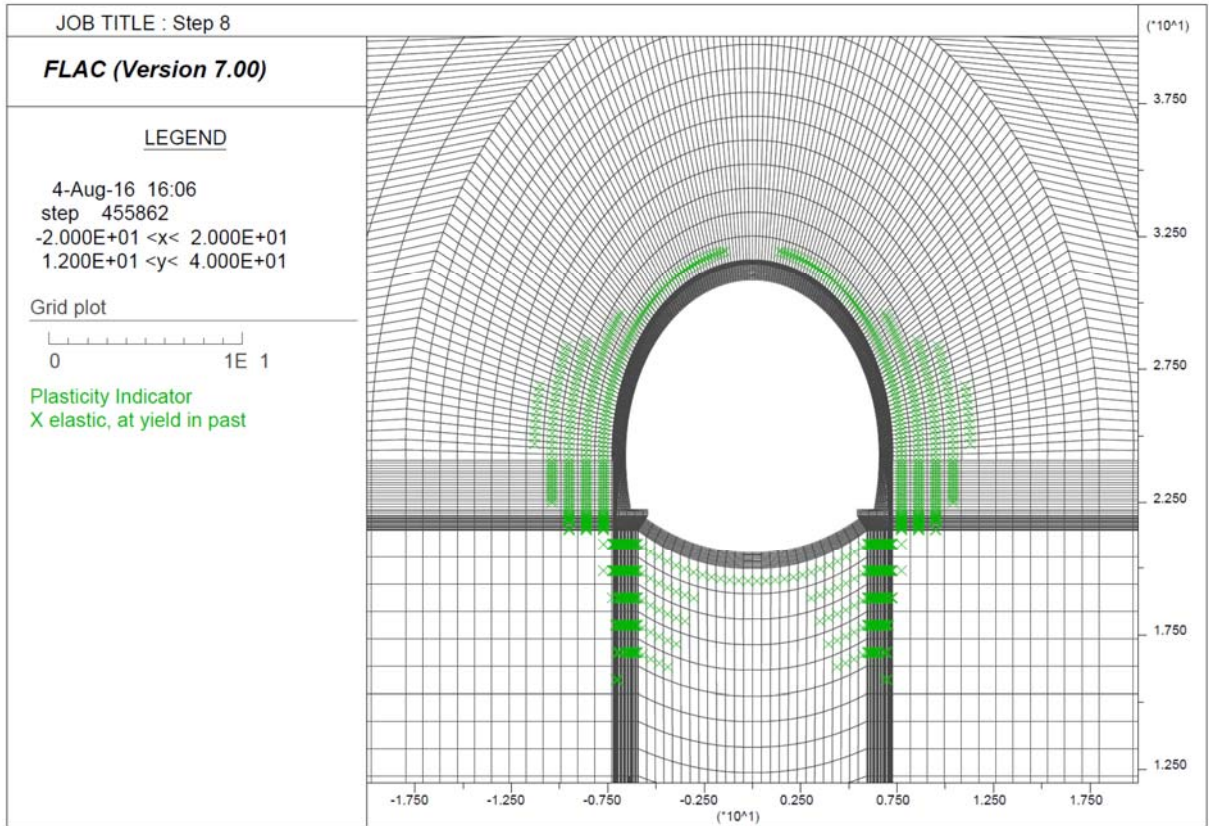
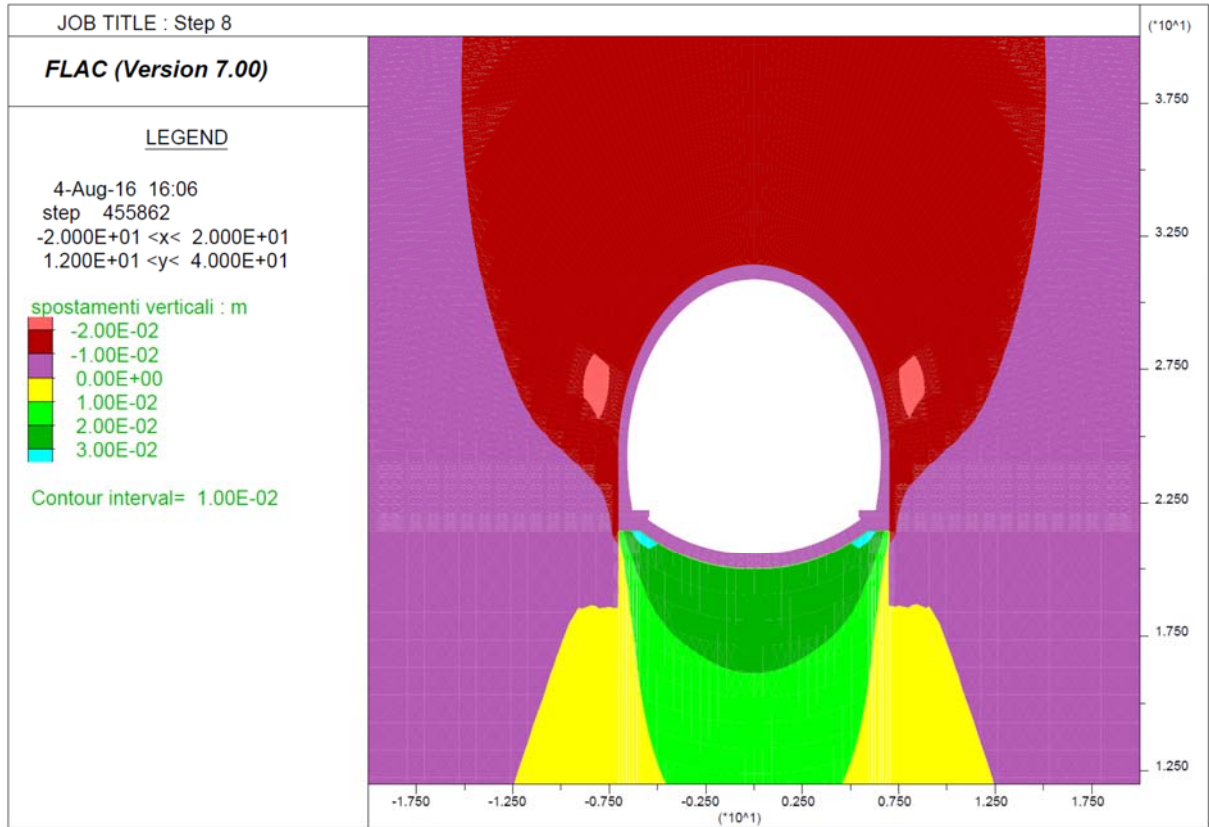
Step 7 - Getto arco rovescio e muretta



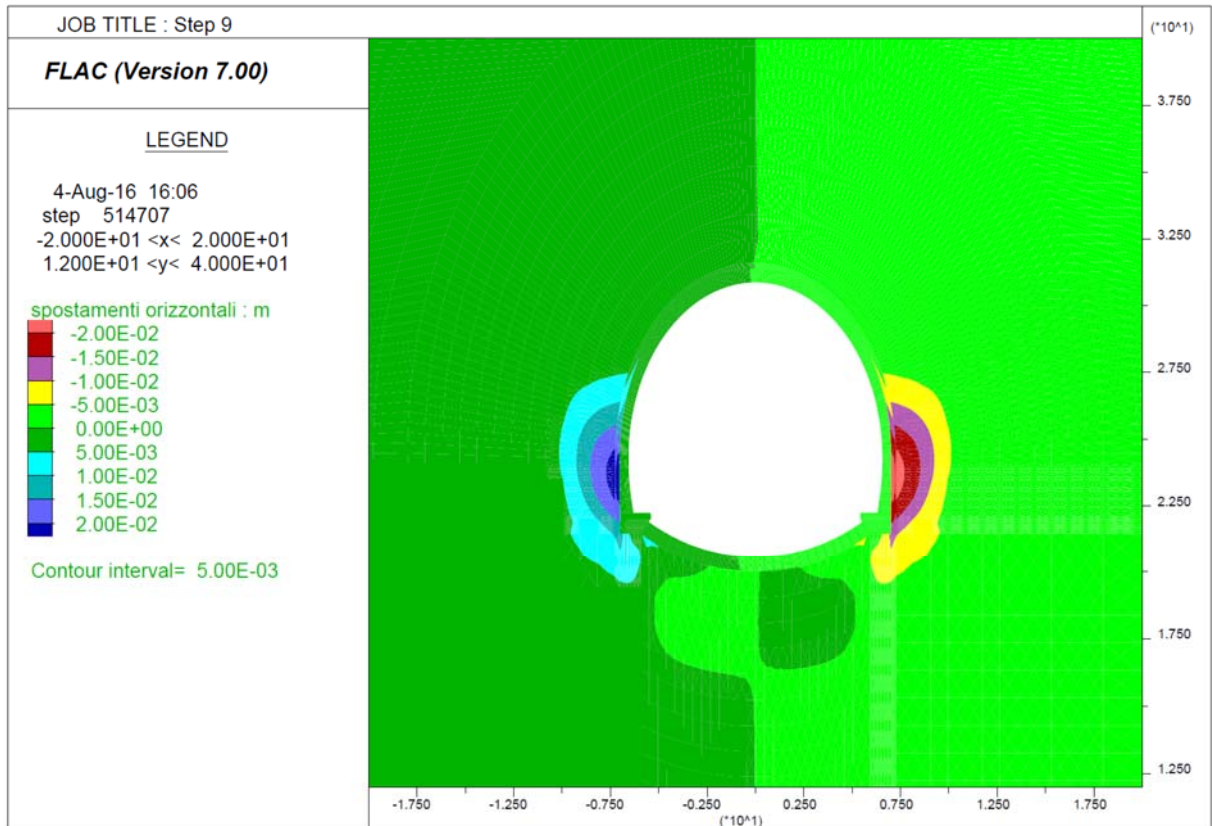
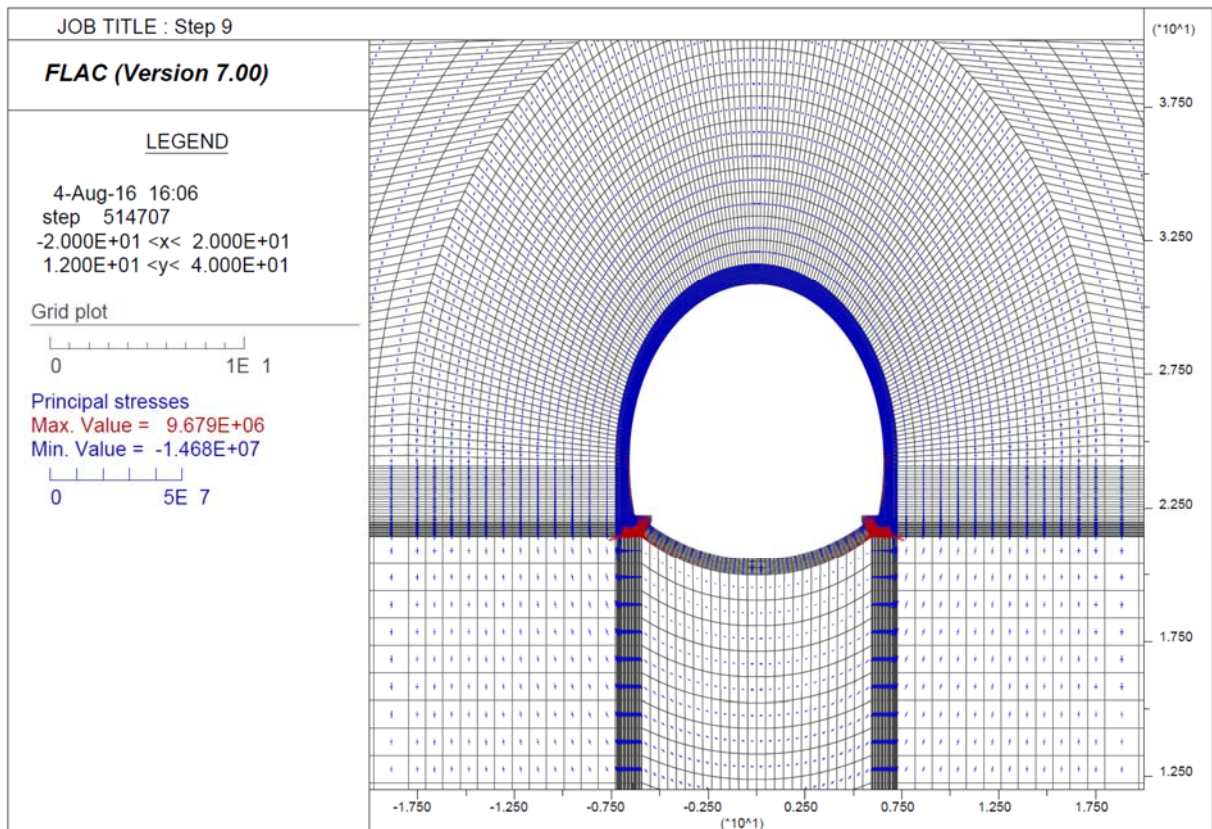


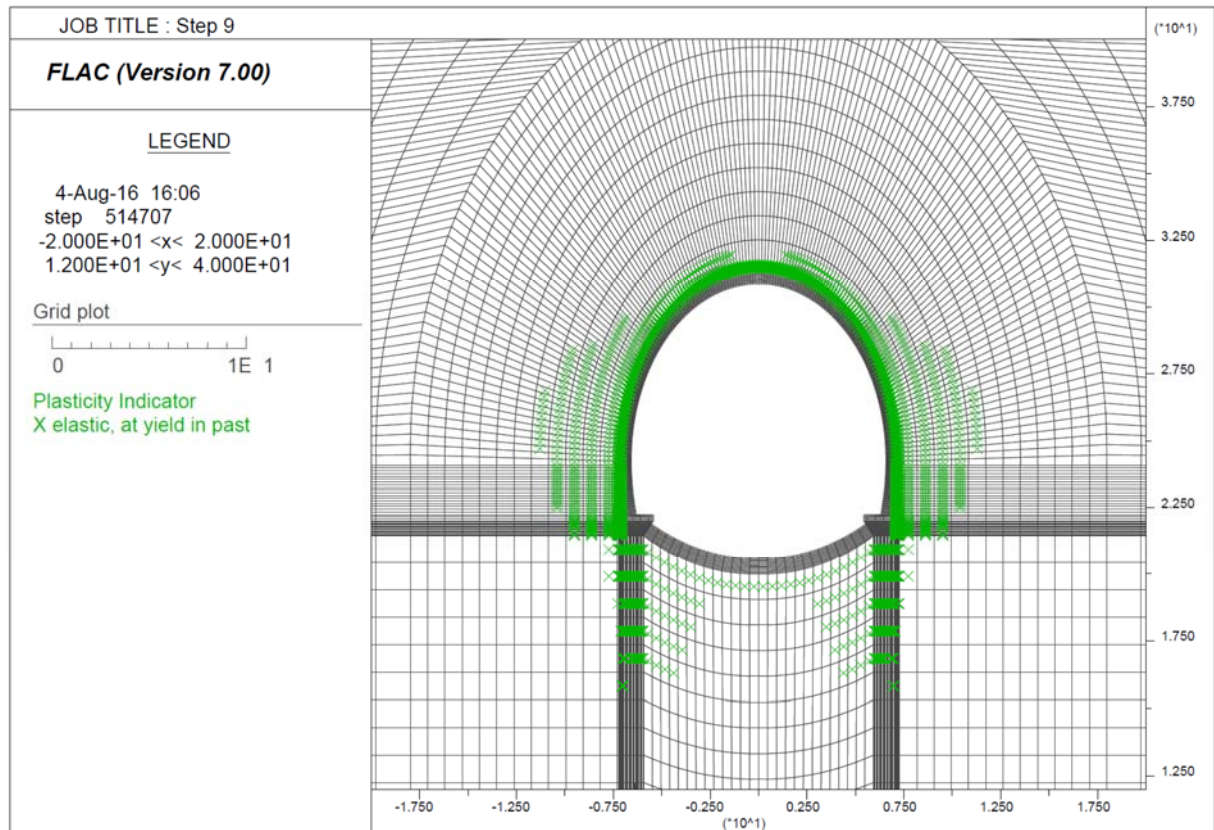
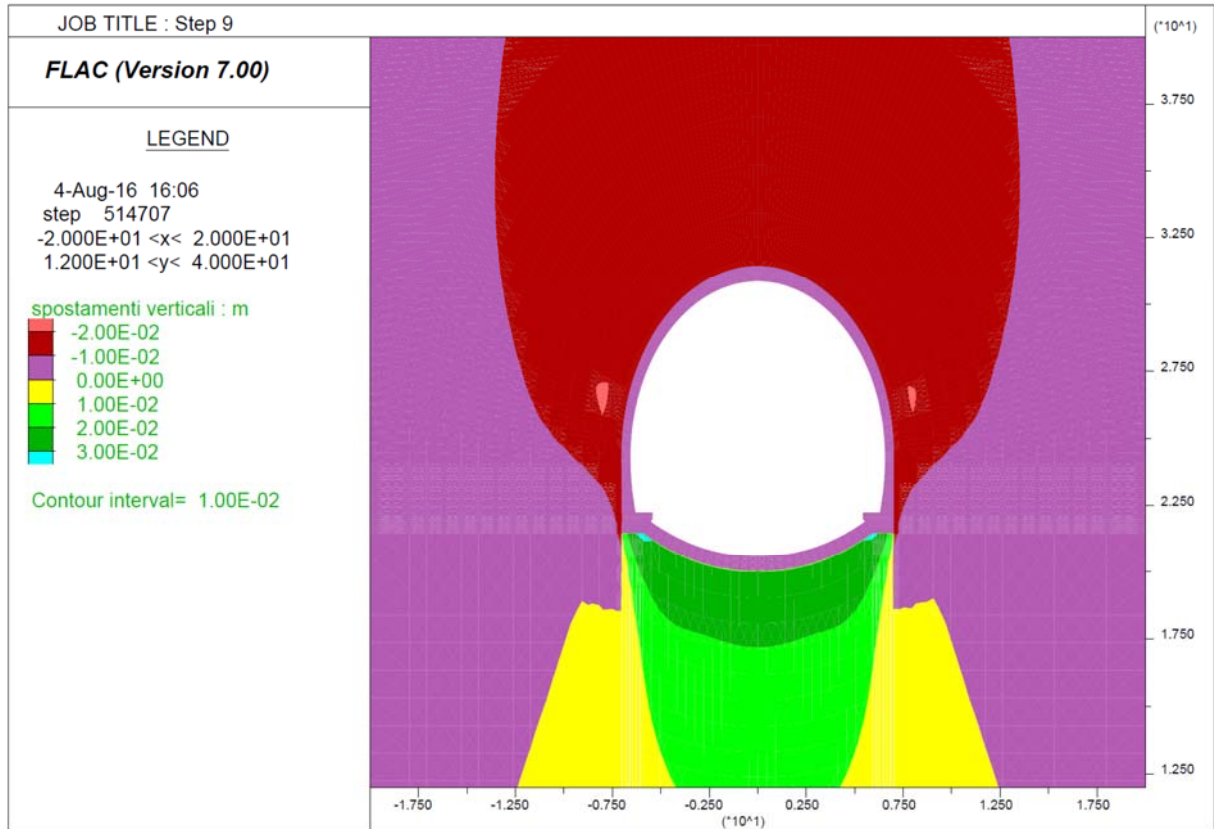
Step 8 - Getto Calotta





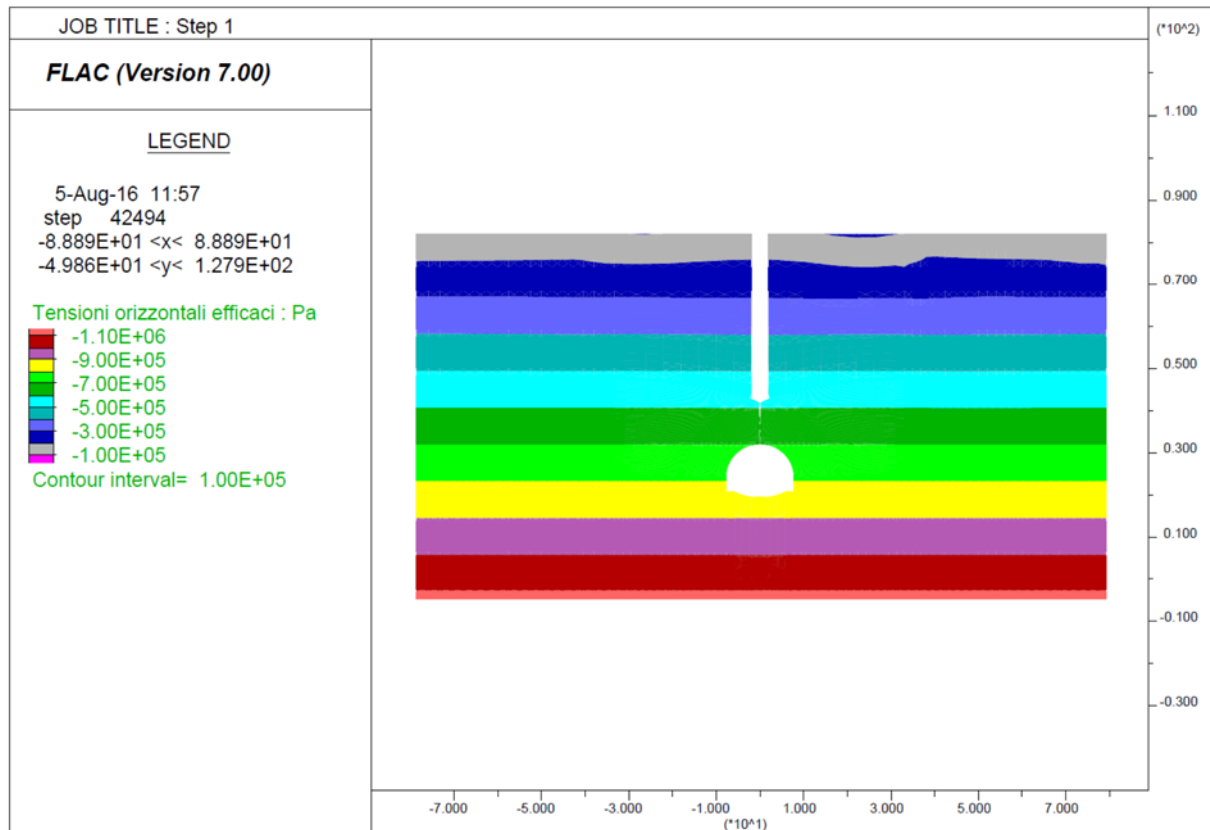
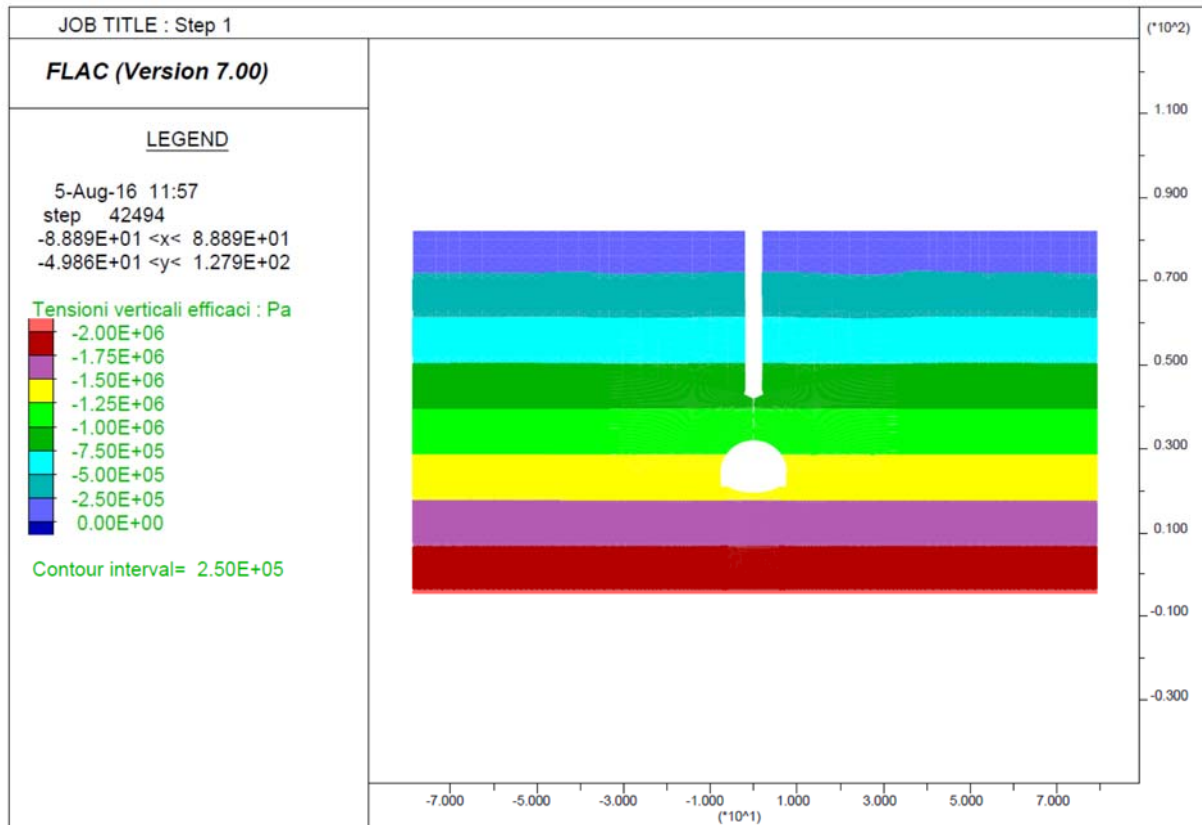
Step 9 - Decadimento dei parametri di resistenza del rivestimento provvisorio



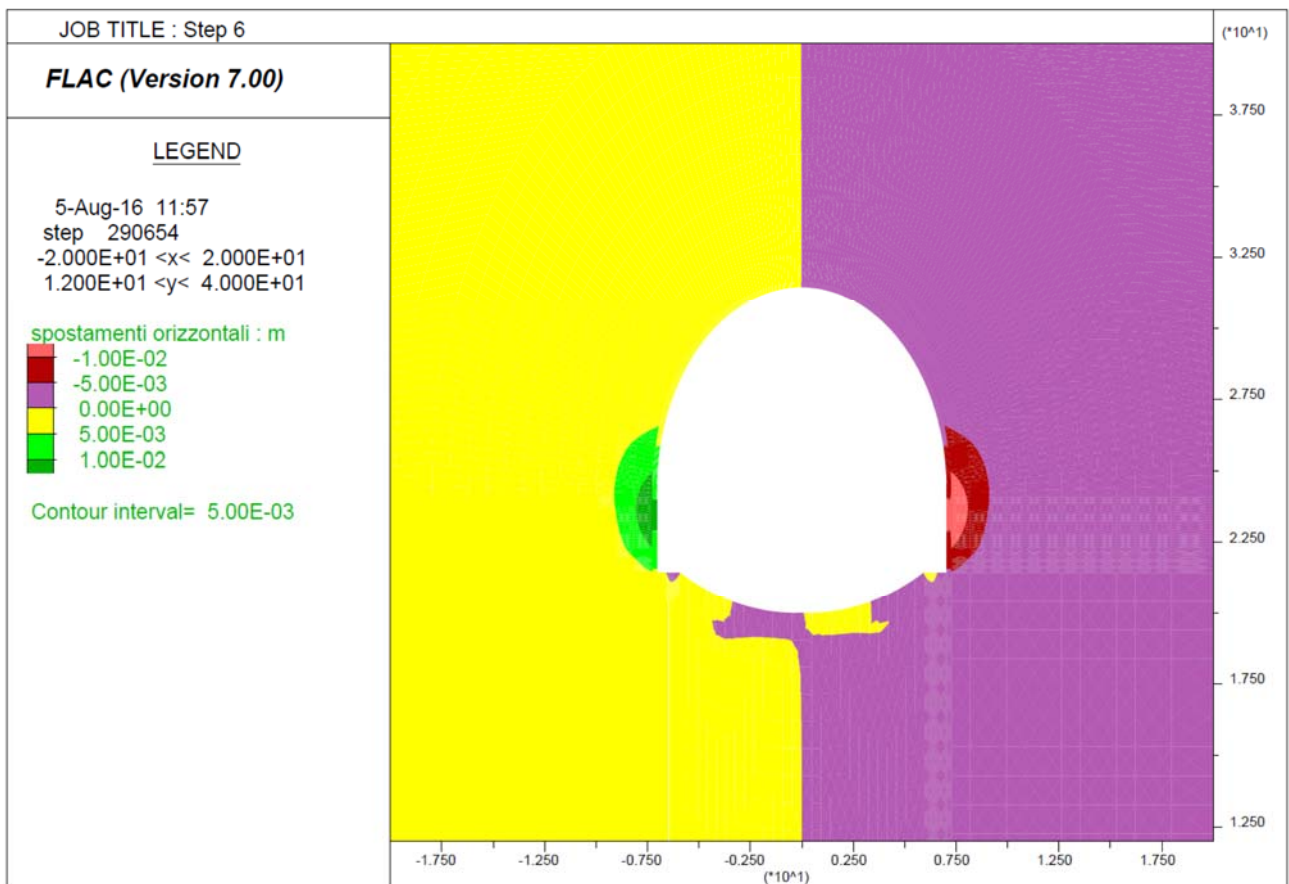
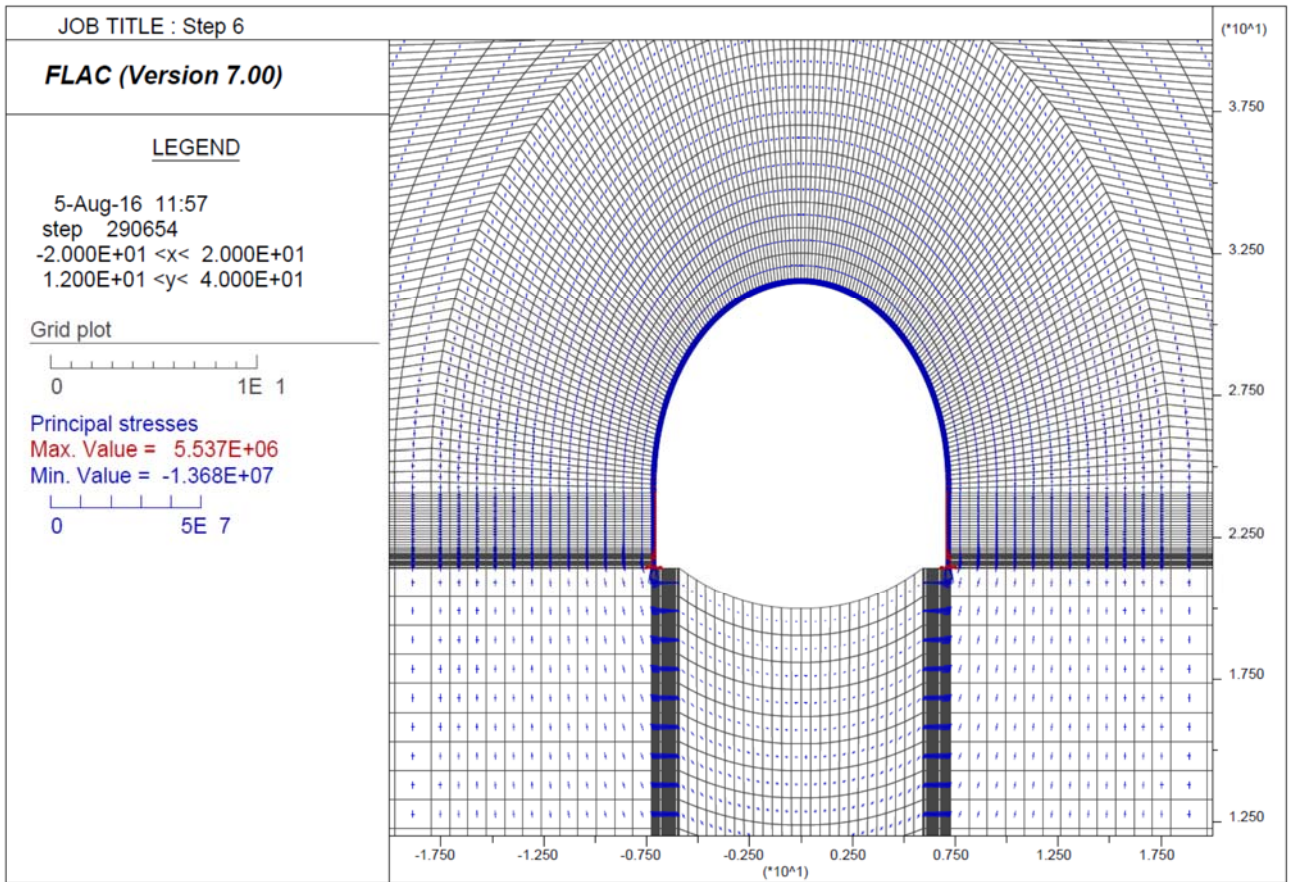


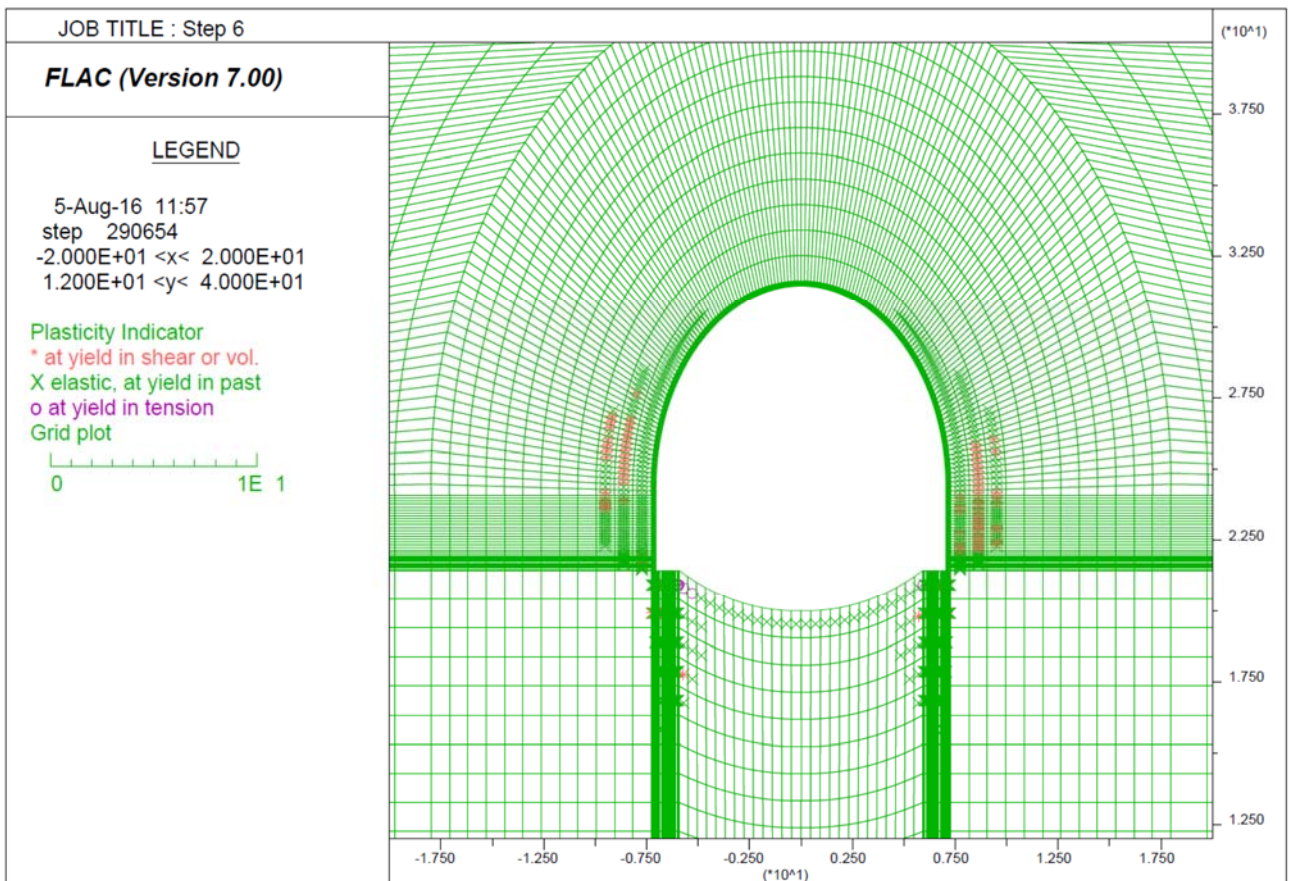
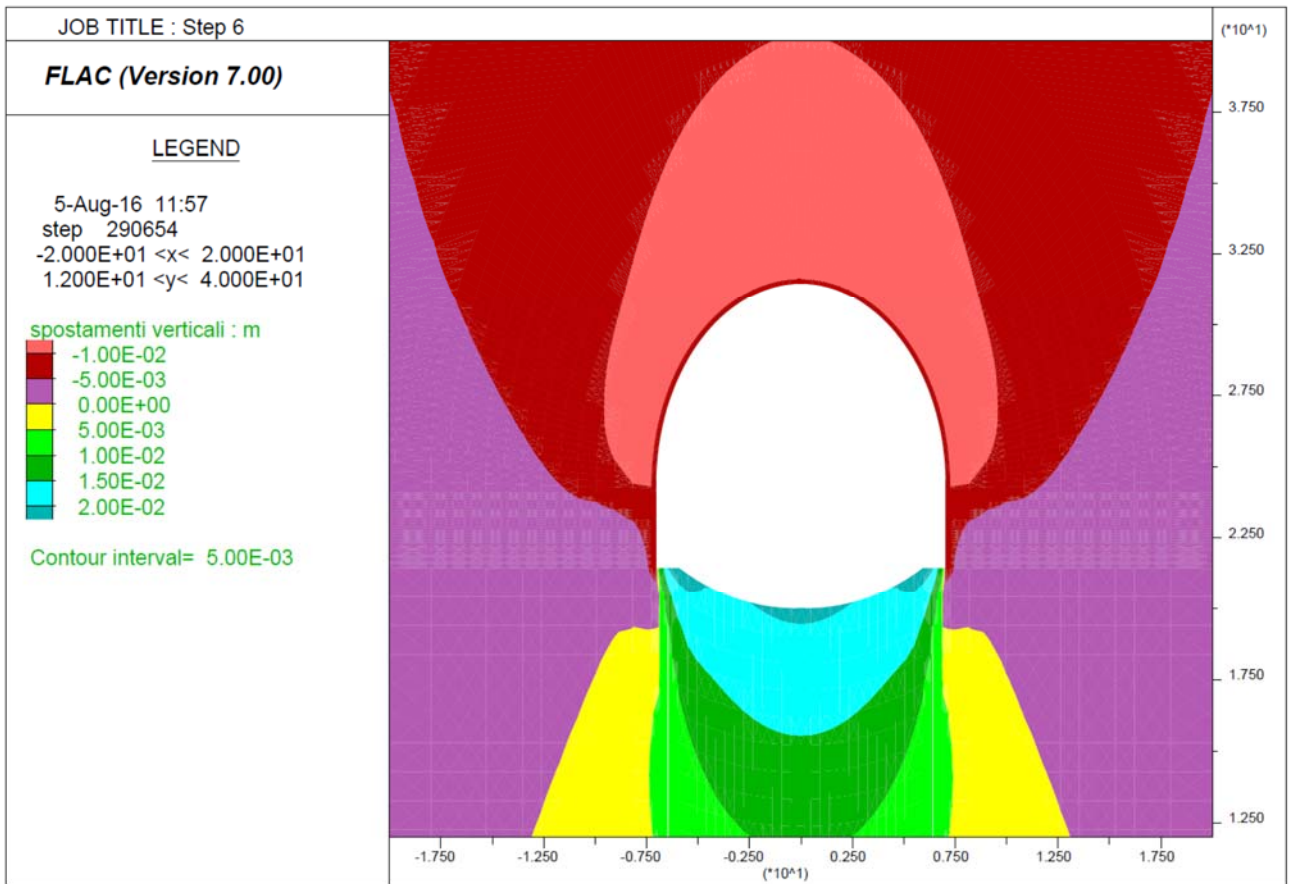
Output Flac – Sezione tipo B0 – Parametri res max – Copertura di calcolo = 50 m

Step 1 – Tensioni litostatiche

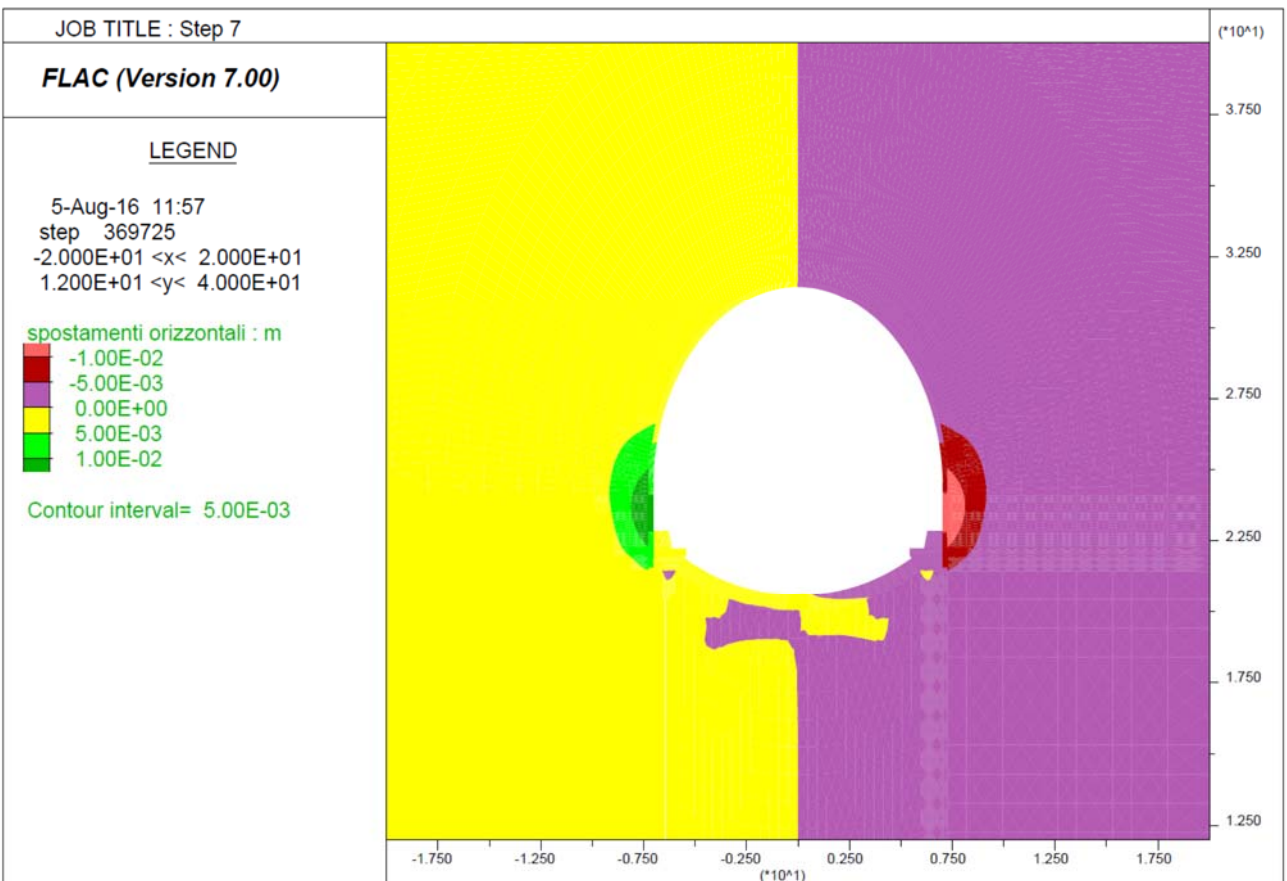
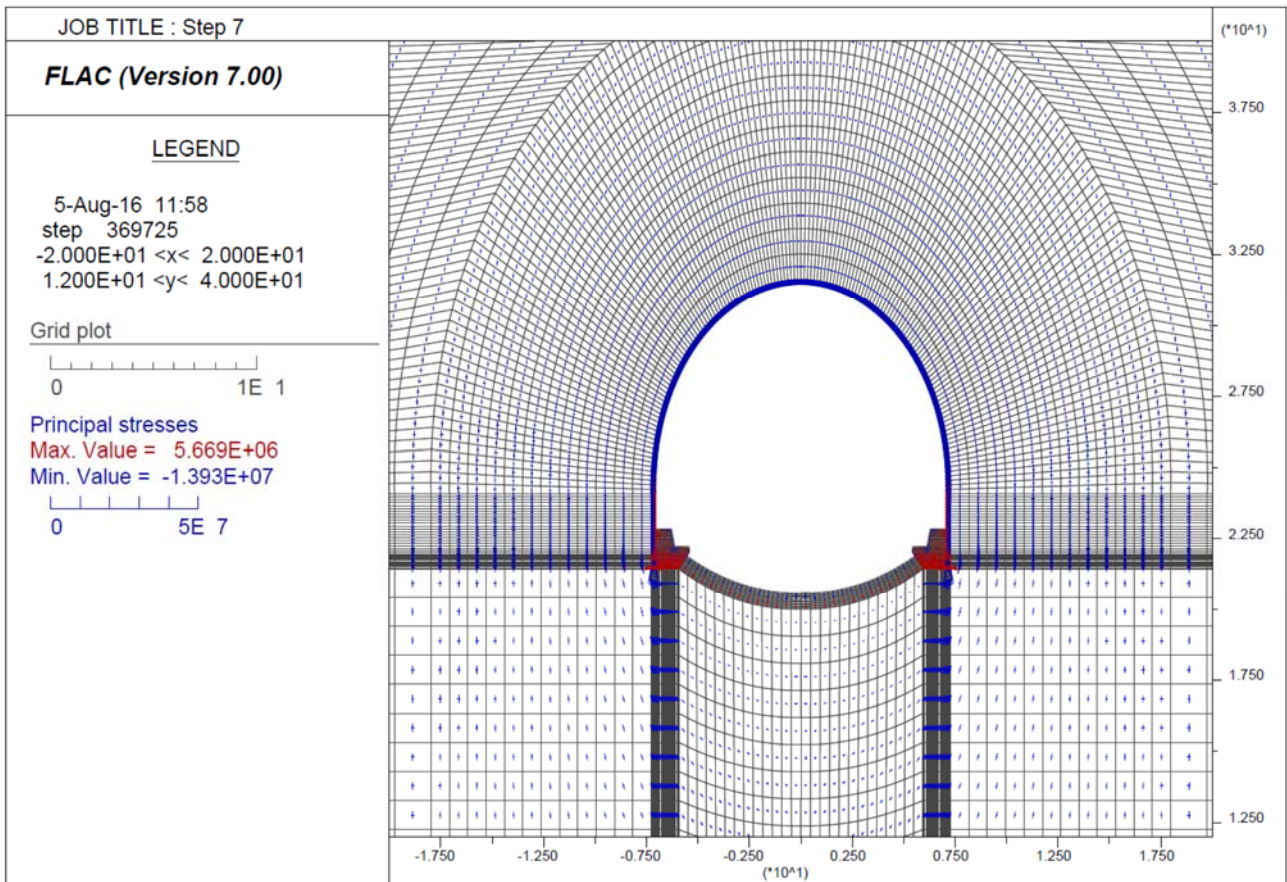


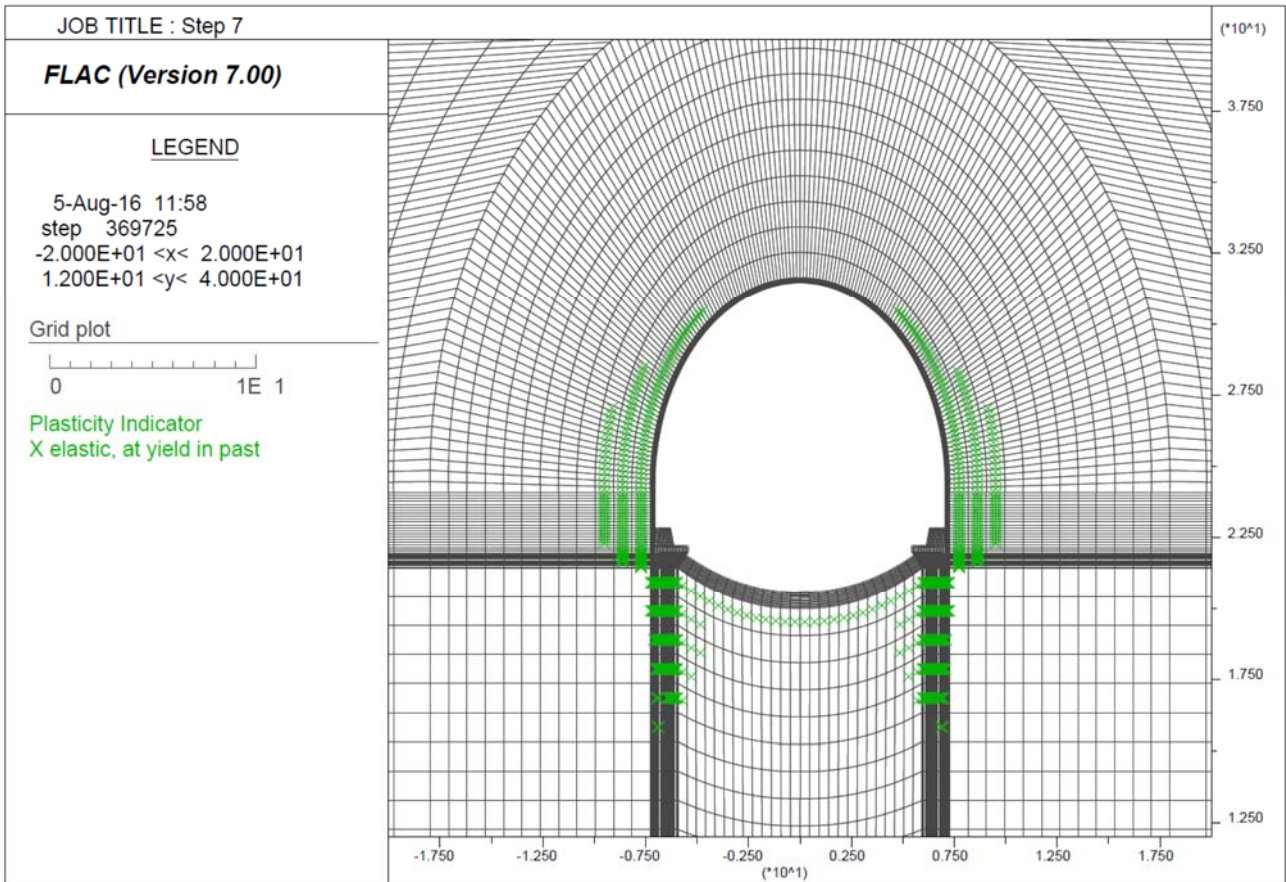
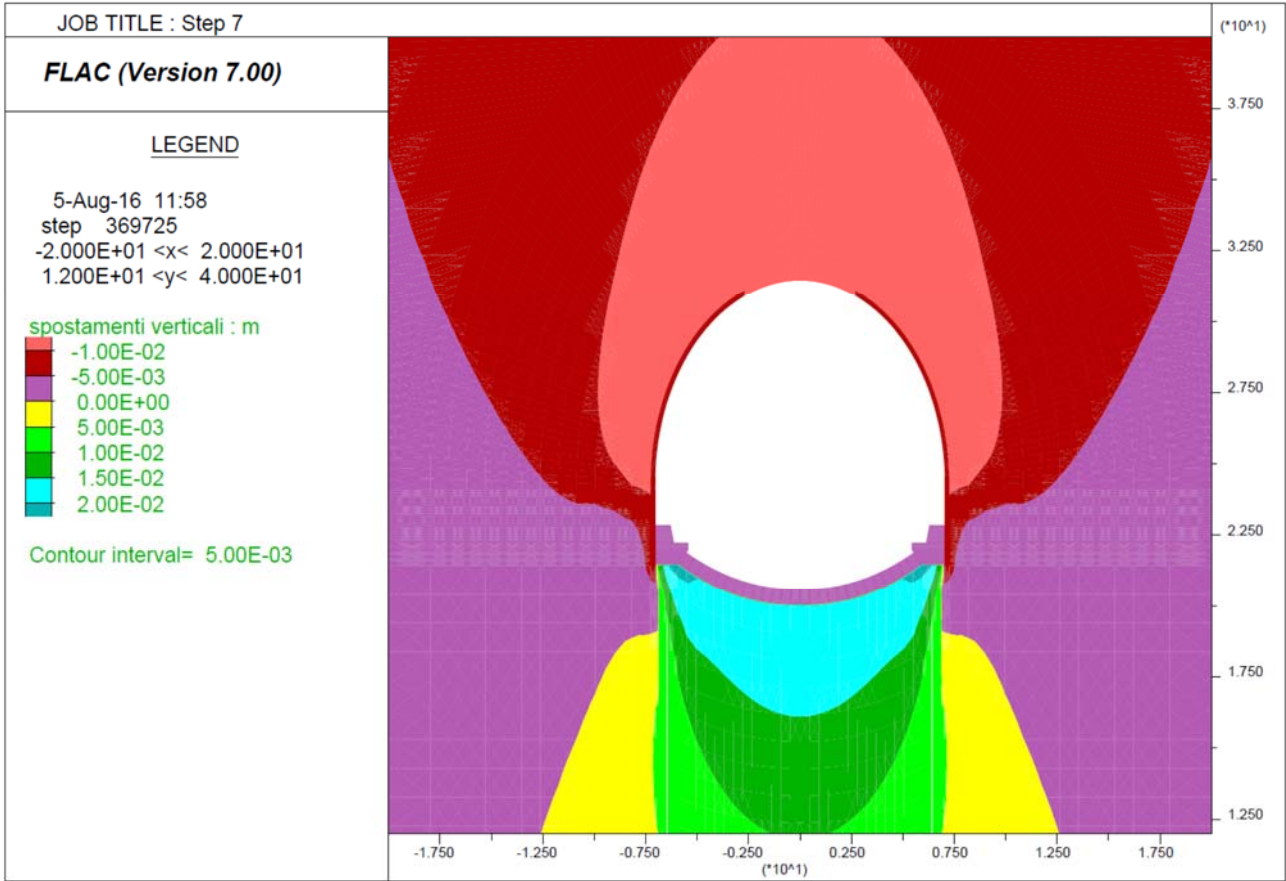
Step 6 – Avanzamento fino a 2D



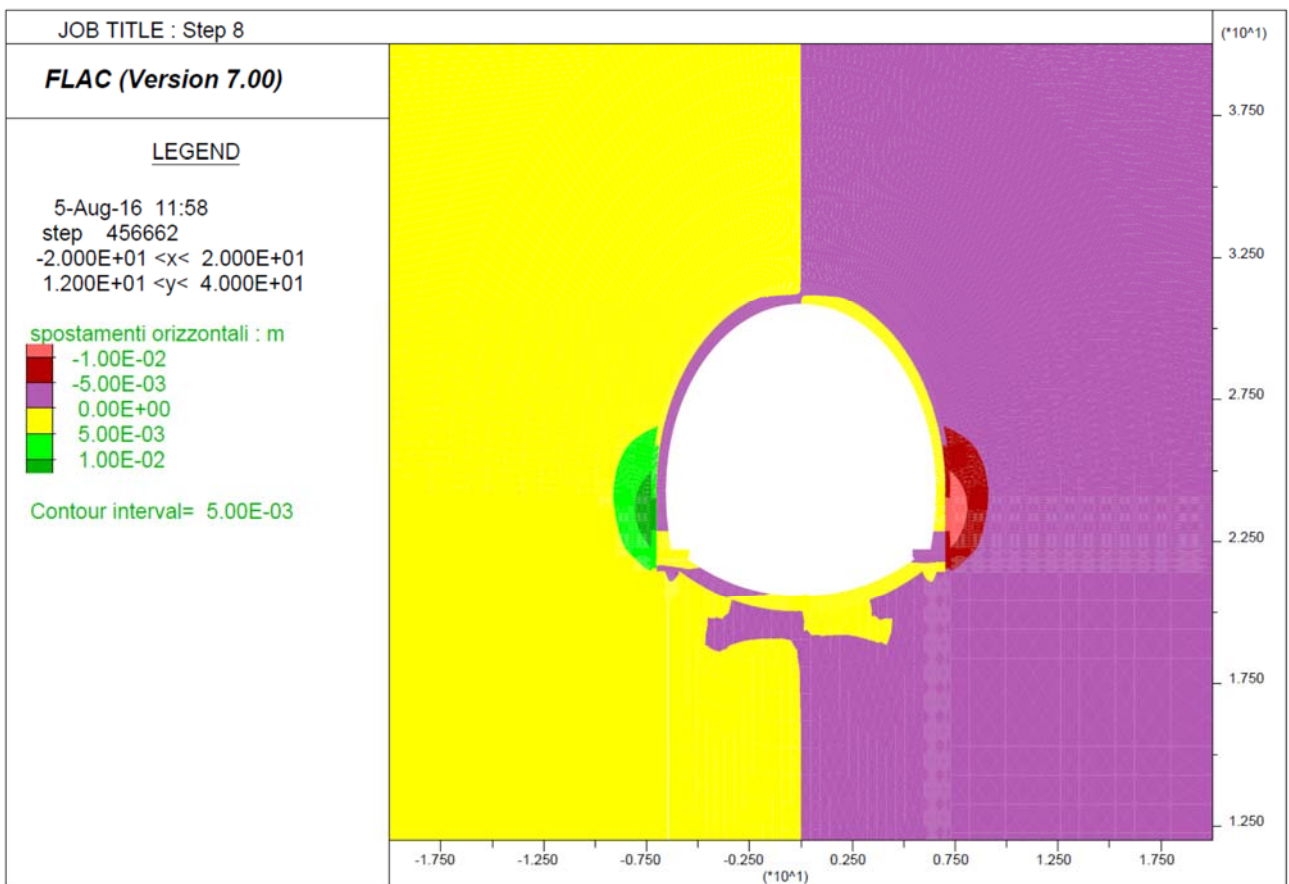
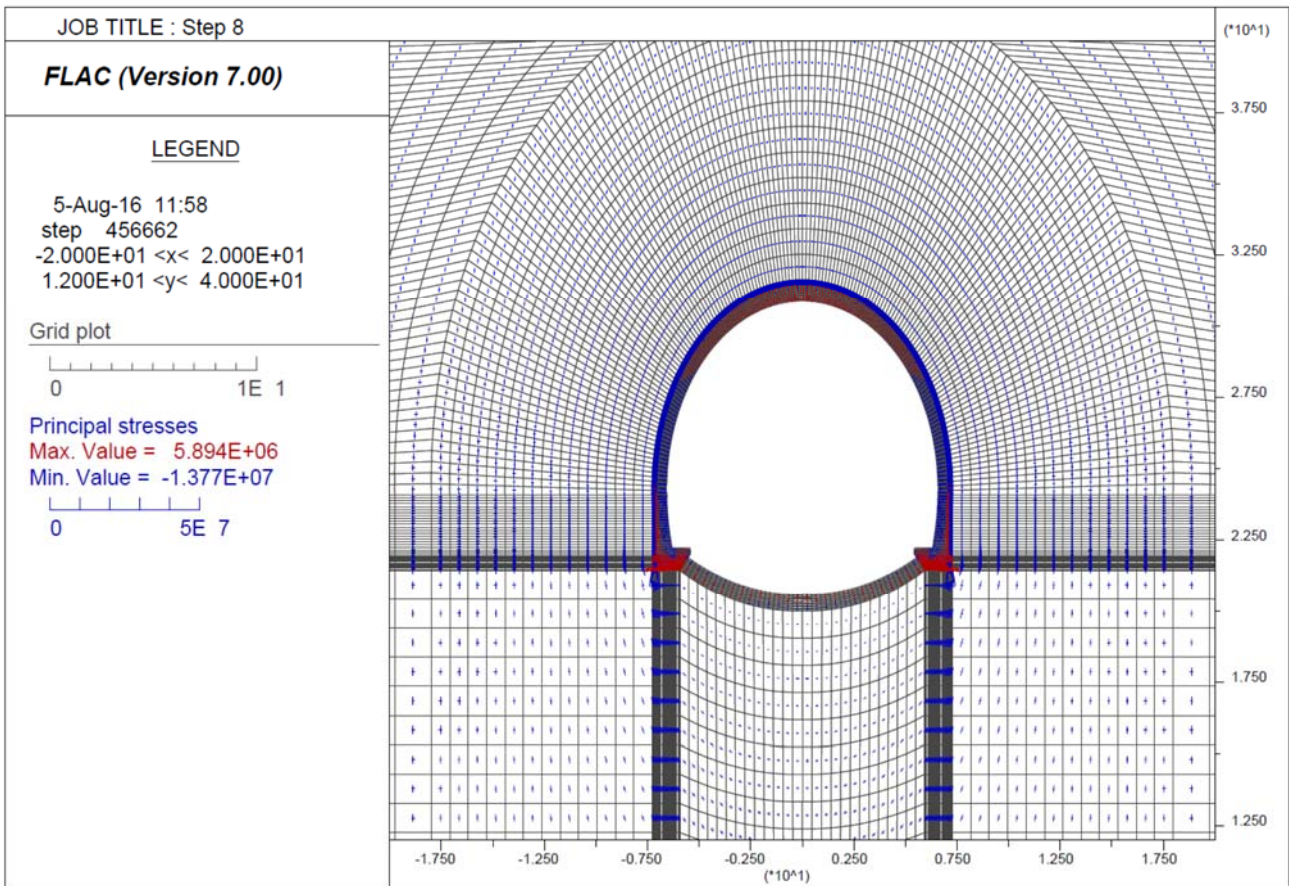


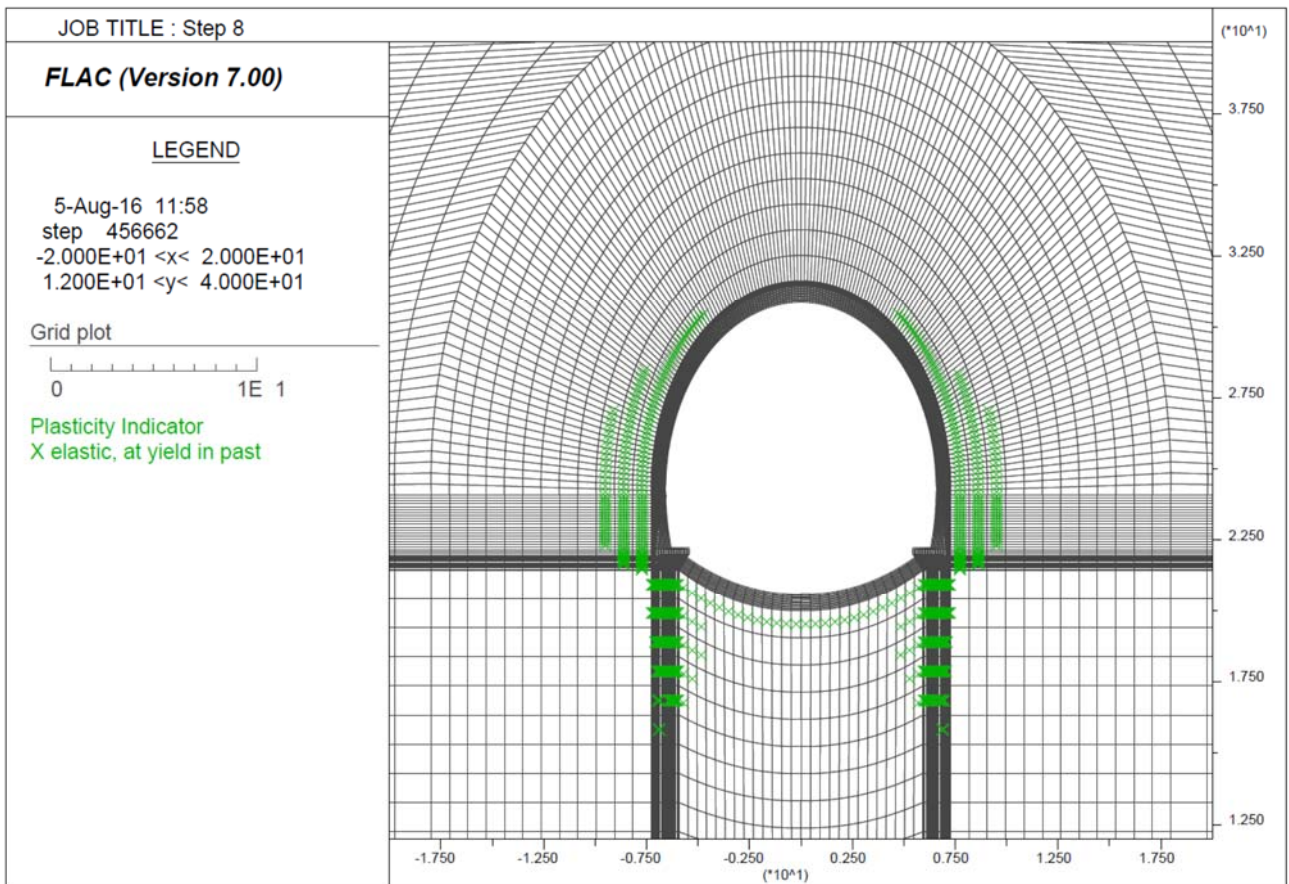
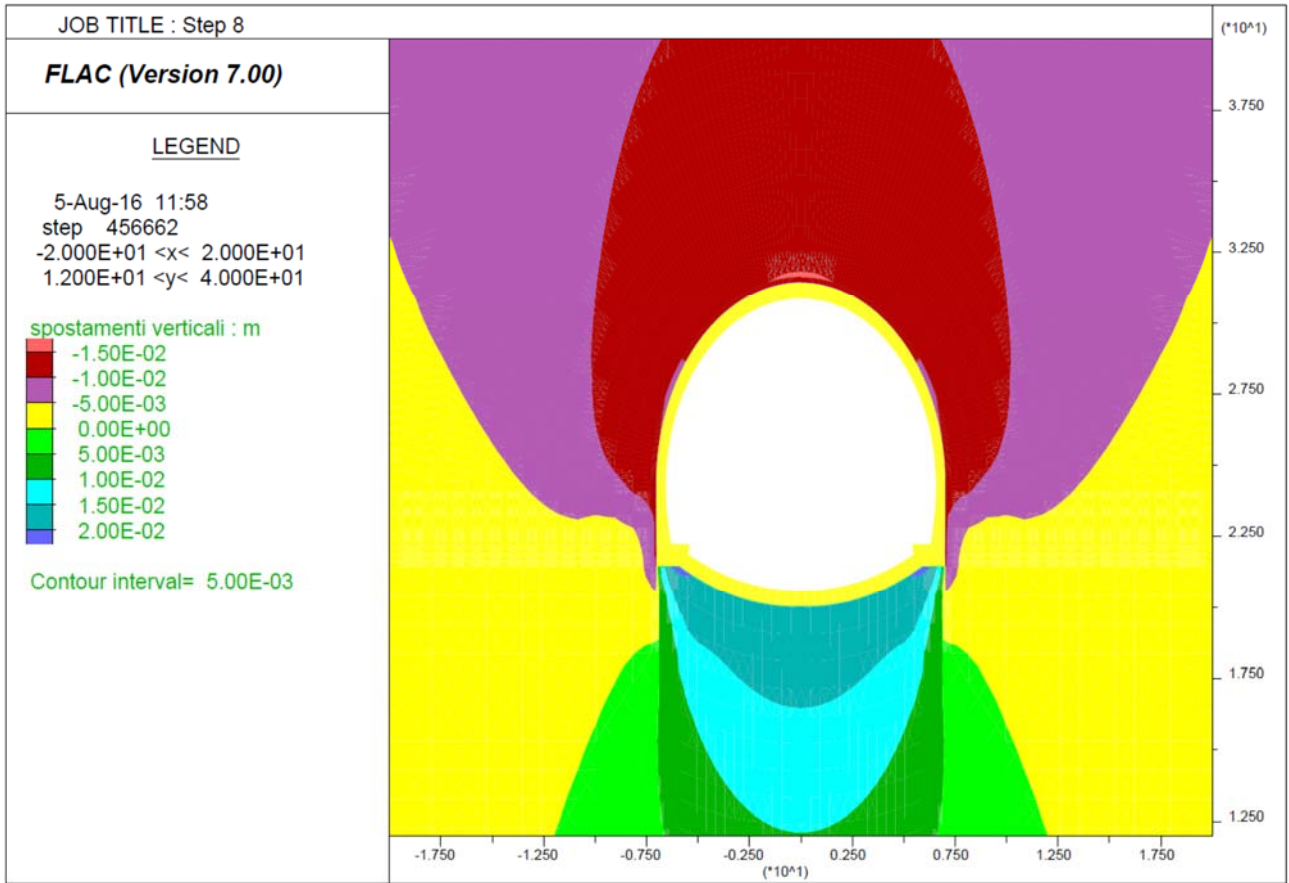
Step 7 - Getto arco rovescio e muretta a 2D e avanzamento fino a deformazioni esaurite



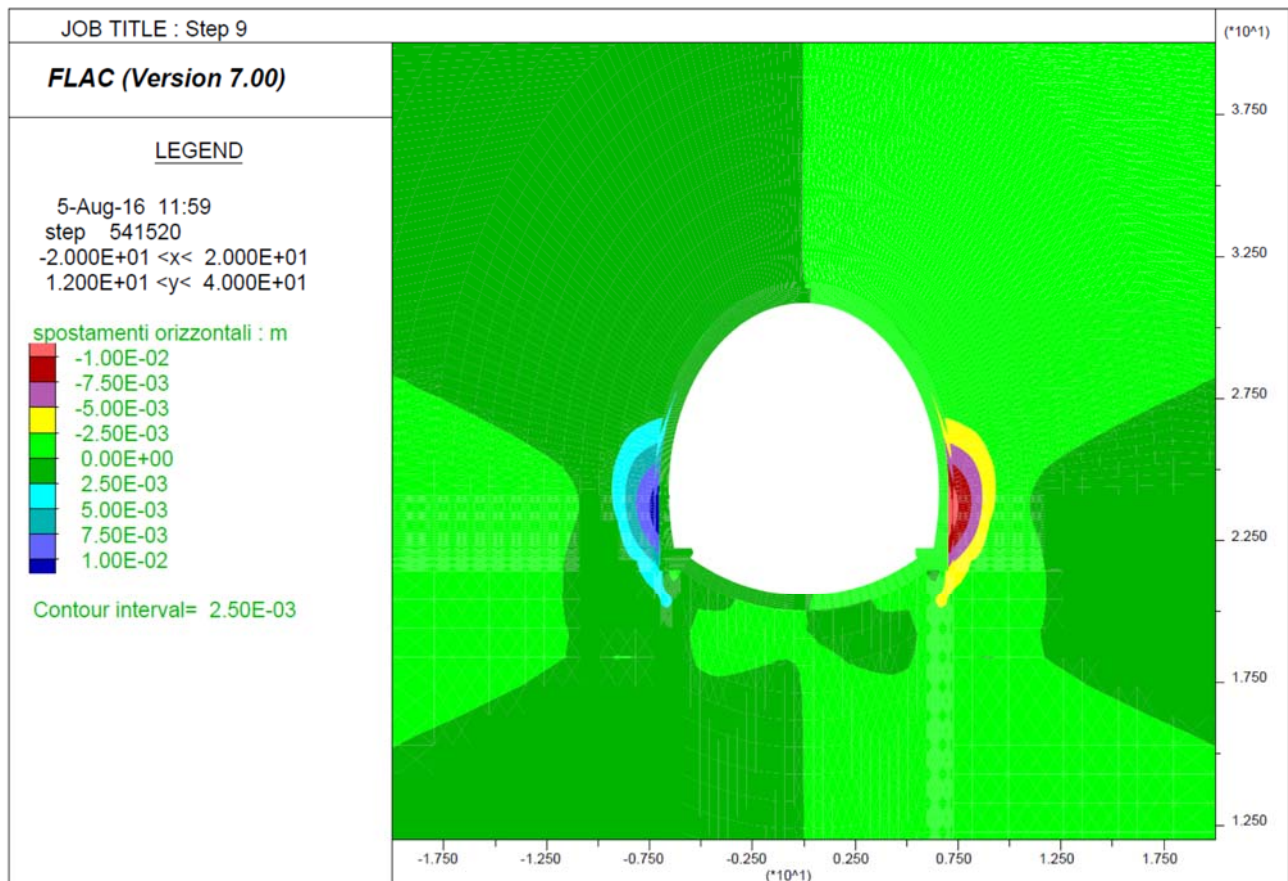
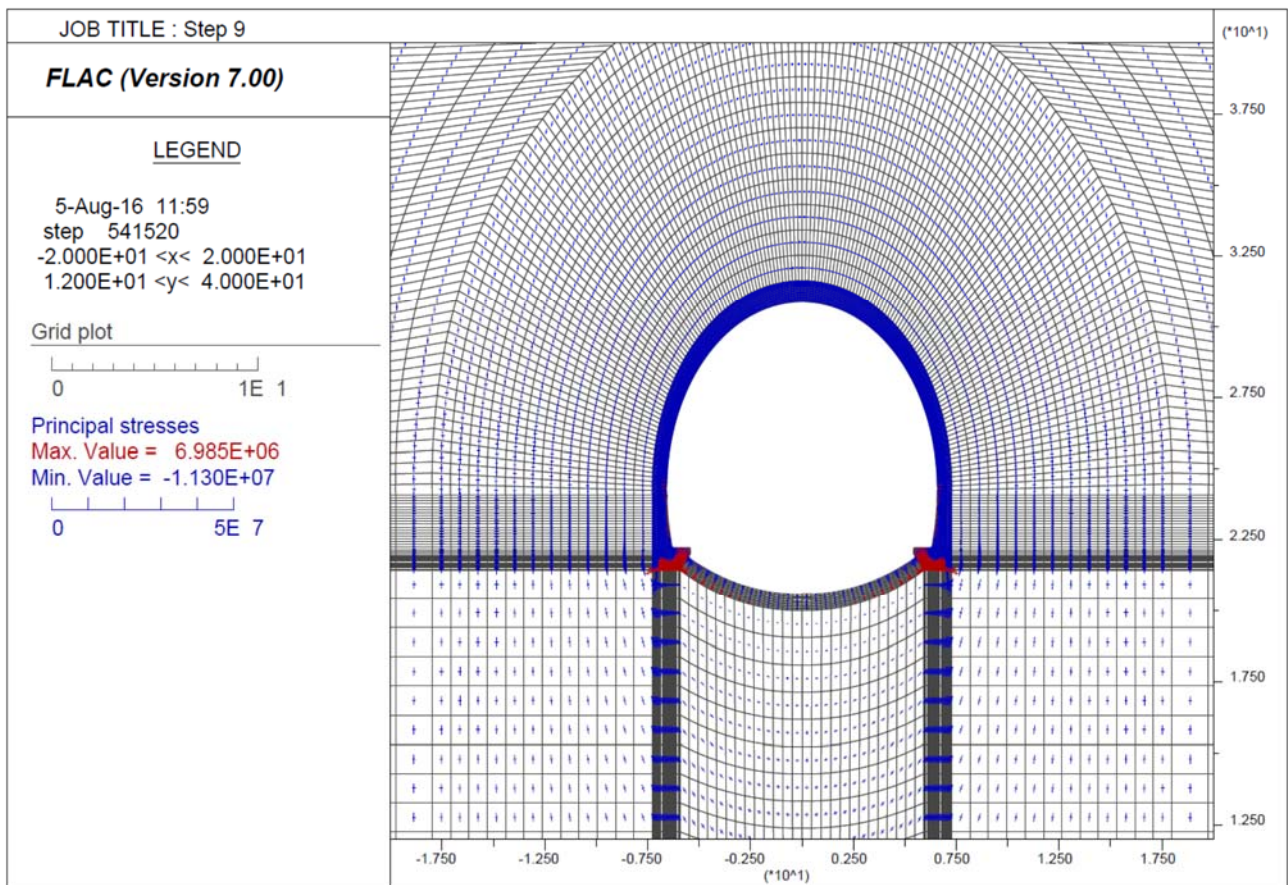


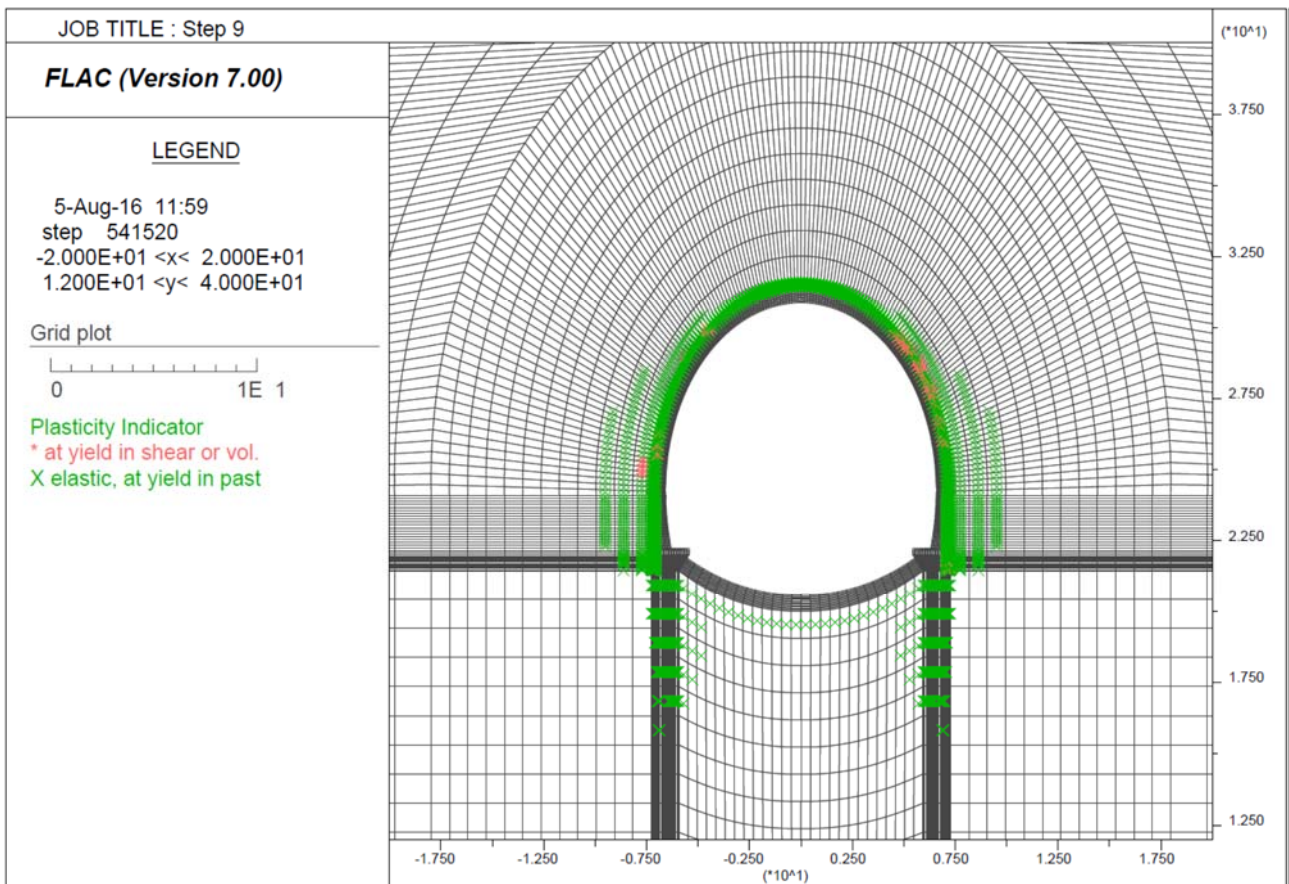
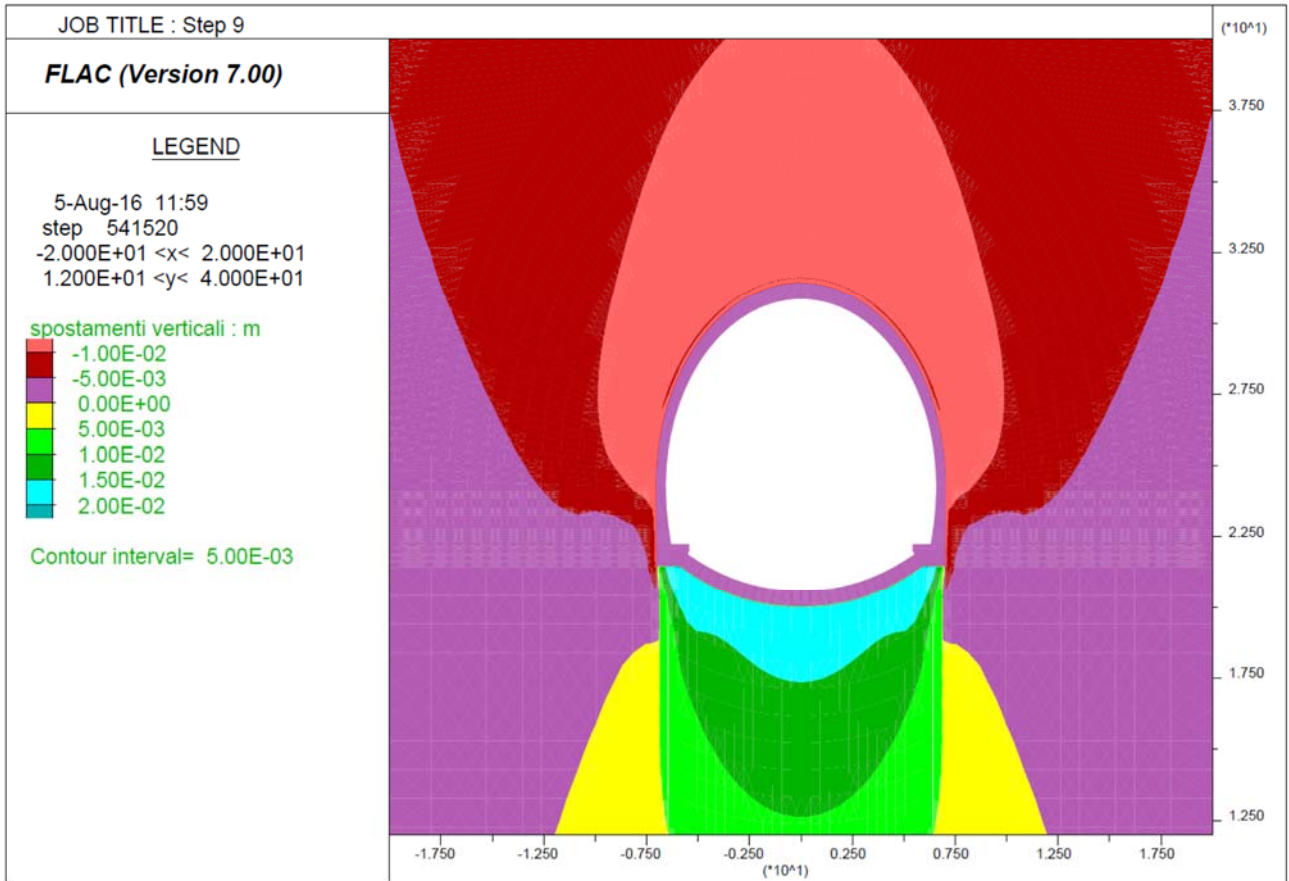
Step 8 - Getto Calotta





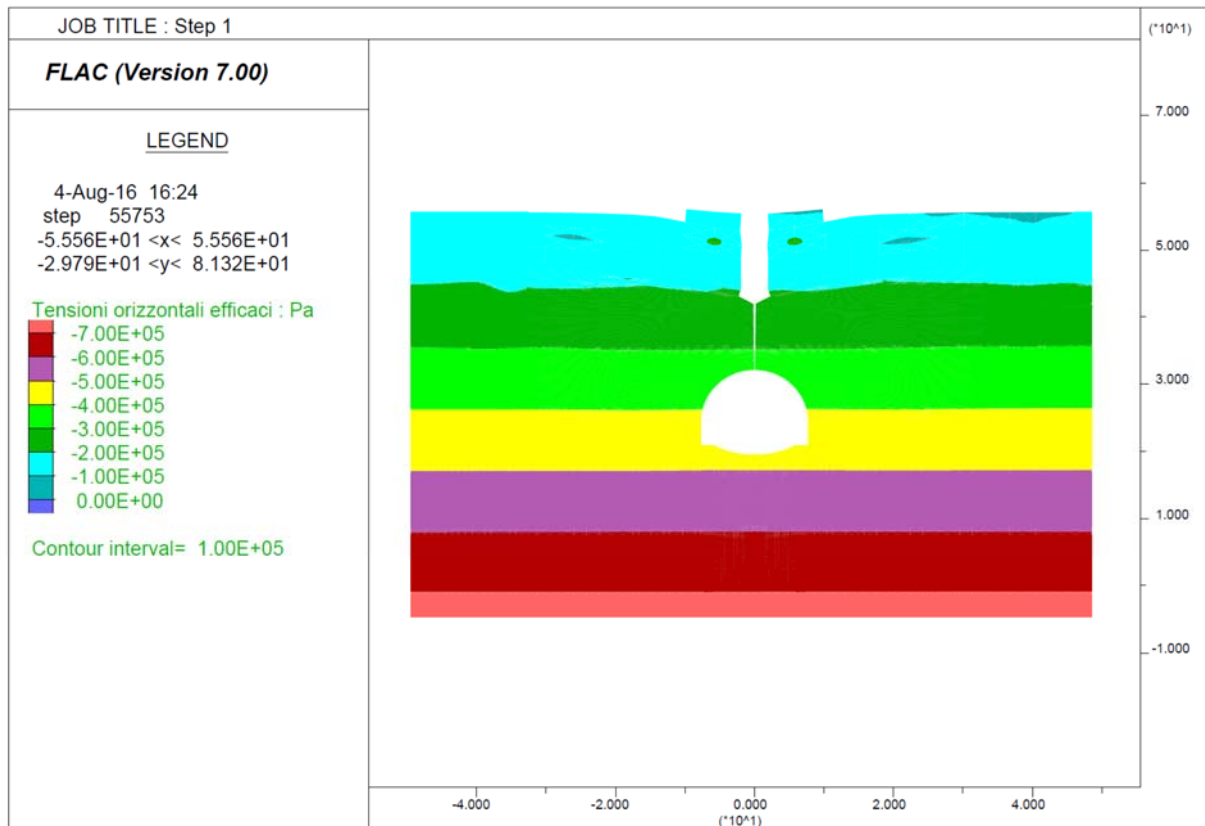
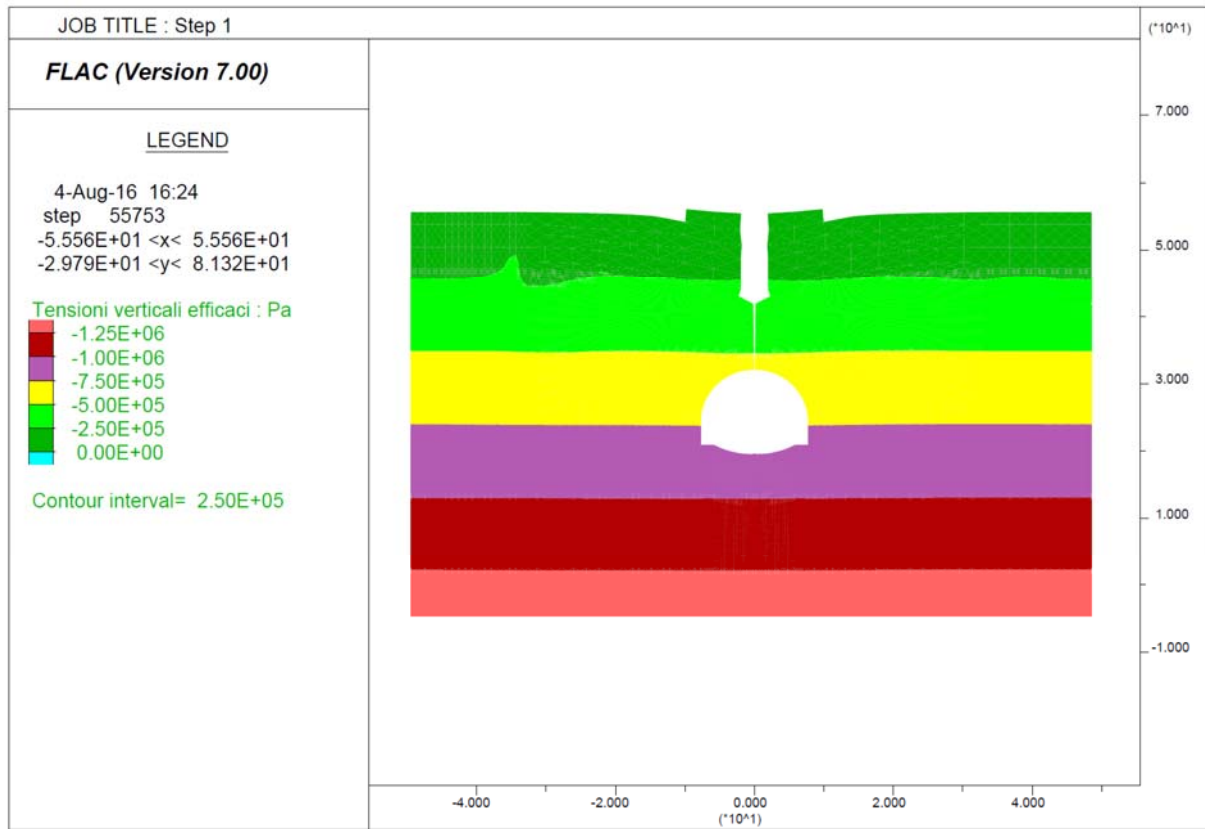
Step 9 - Decadimento dei parametri di resistenza del rivestimento provvisorio



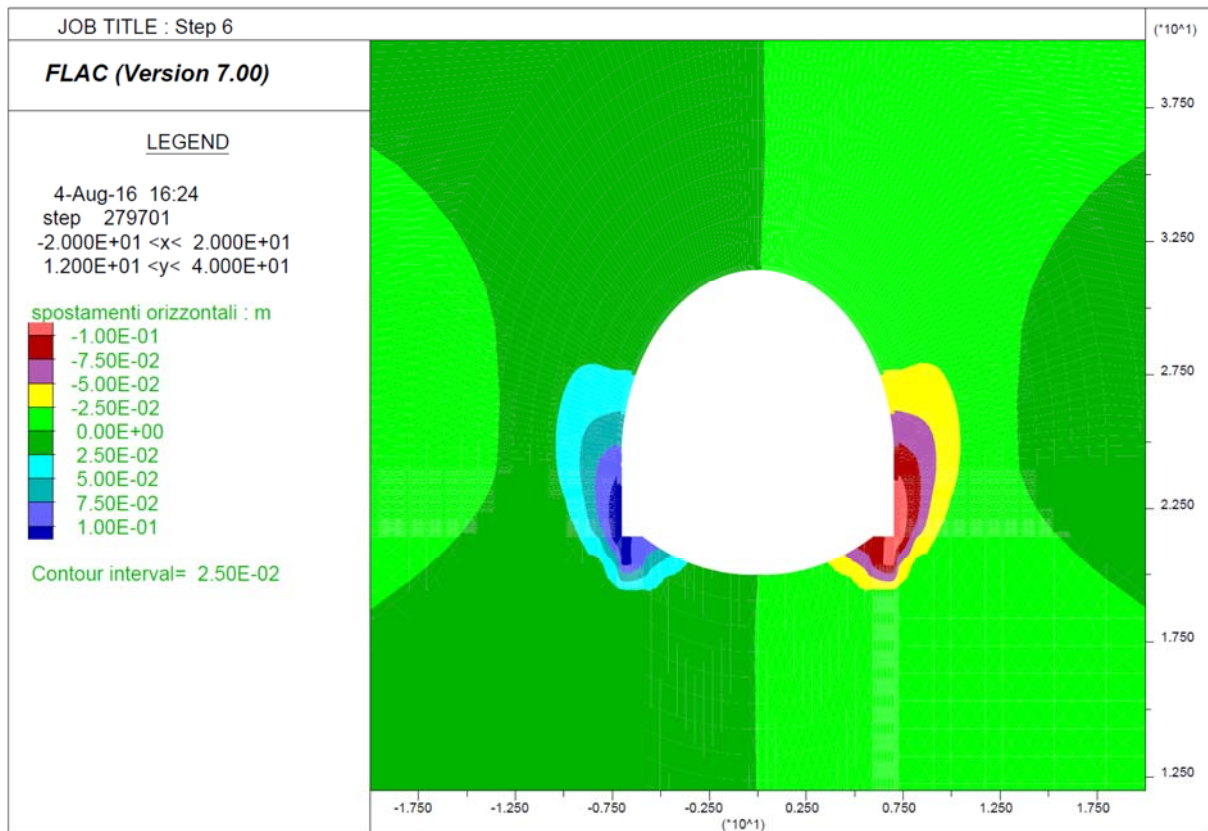
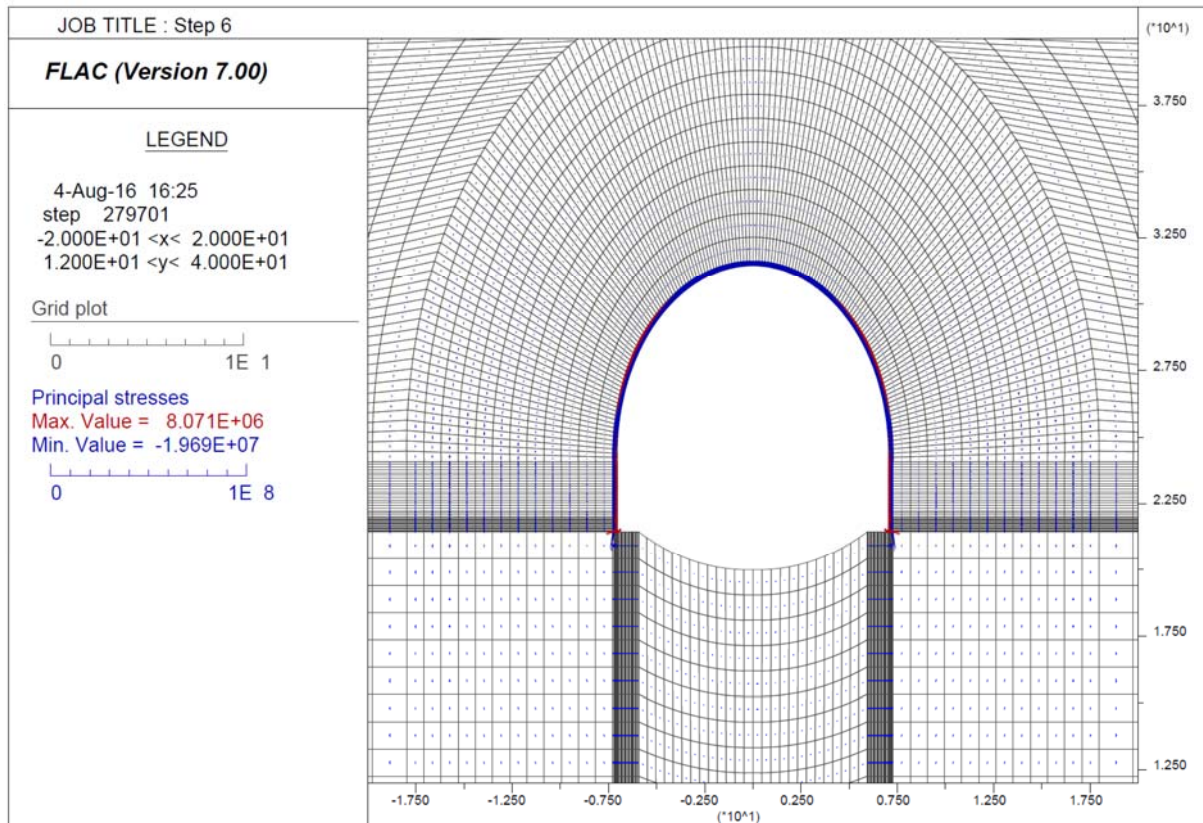


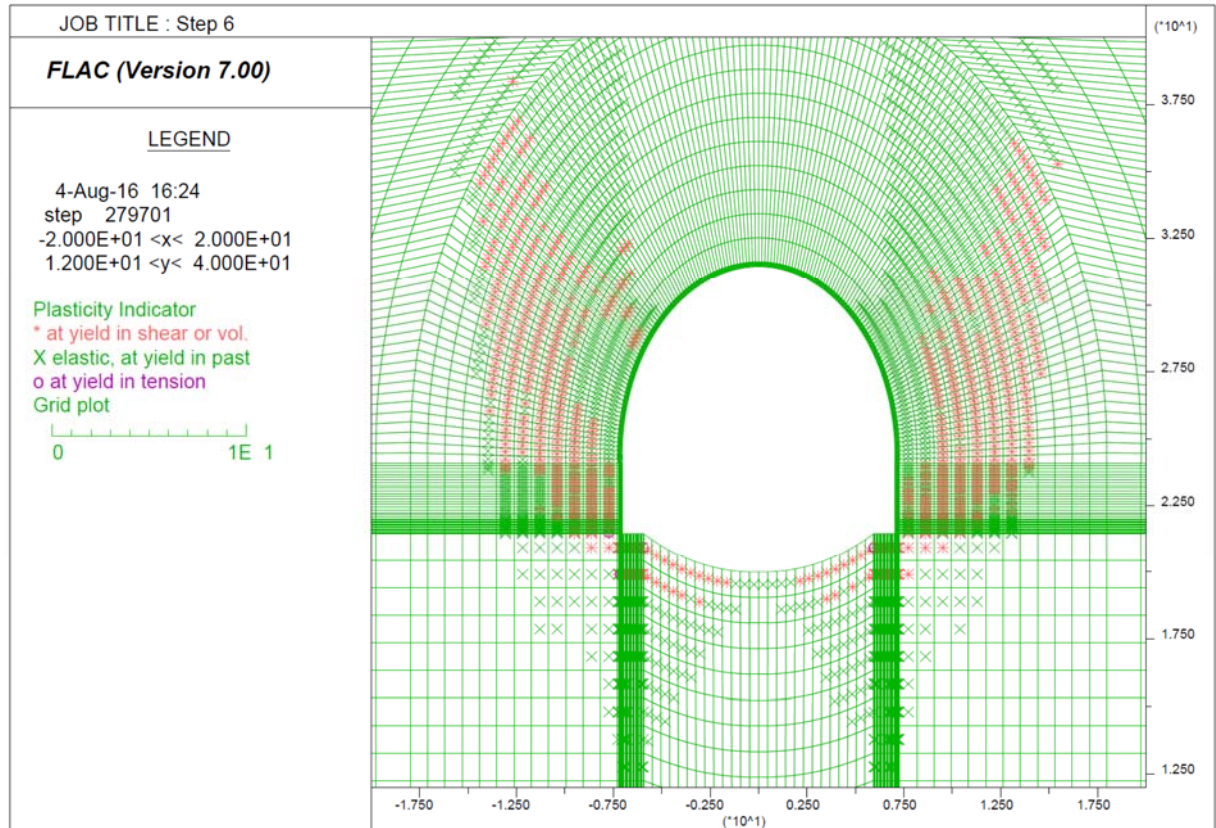
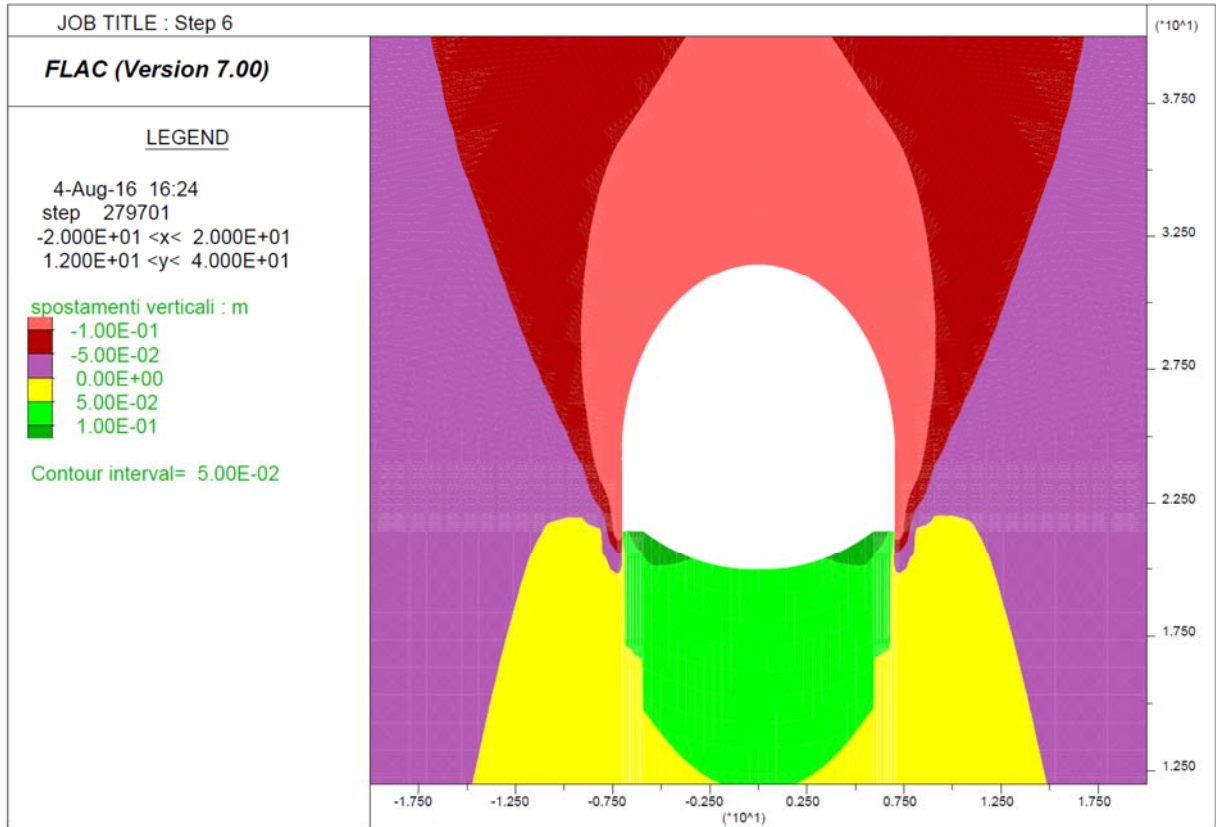
Output Flac – Sezione tipo B0v – Copertura di calcolo = 25 m

Step 1 – Tensioni litostatiche

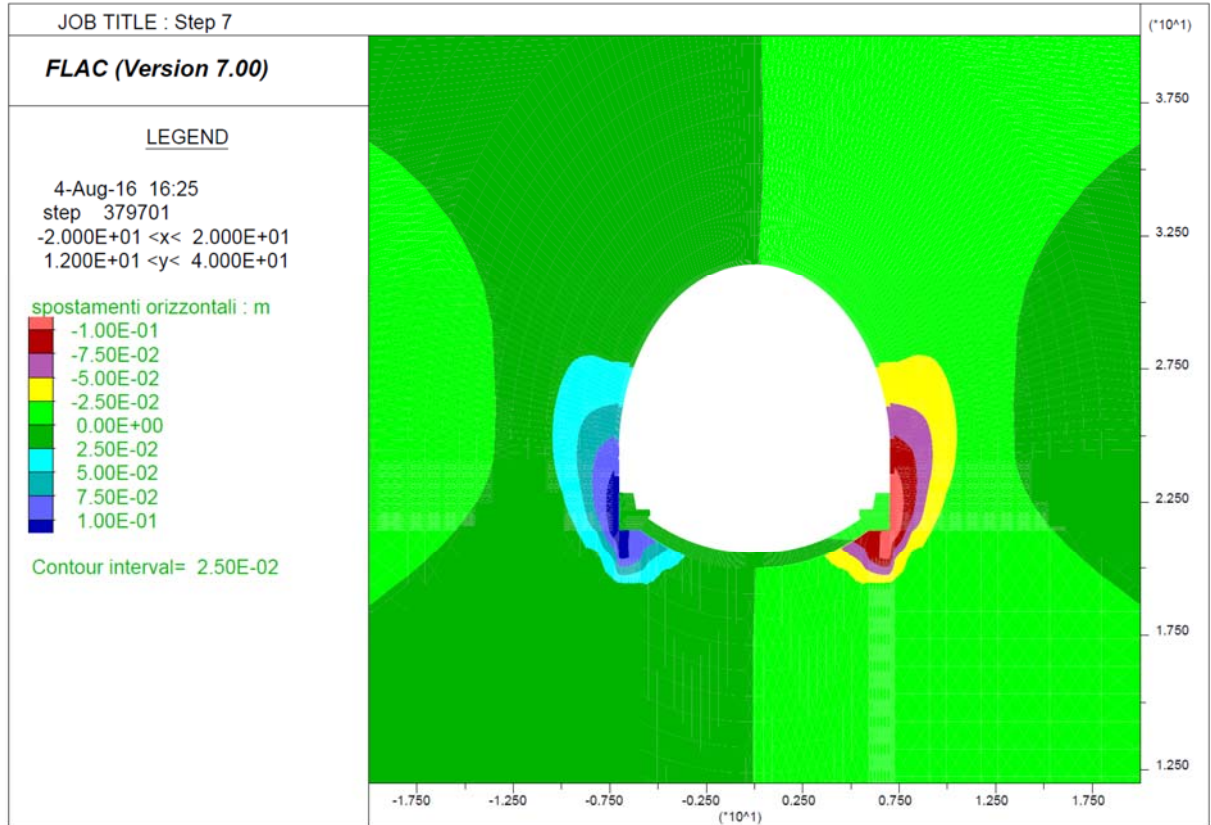
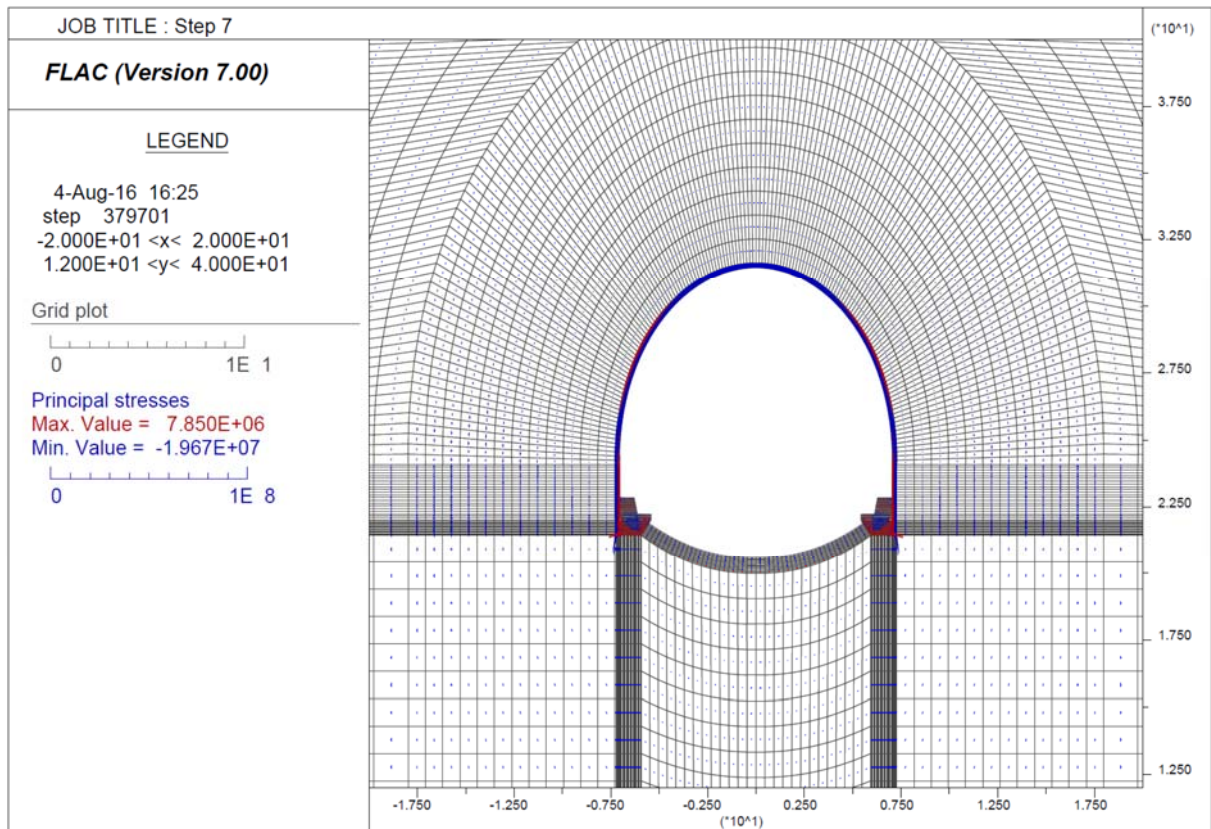


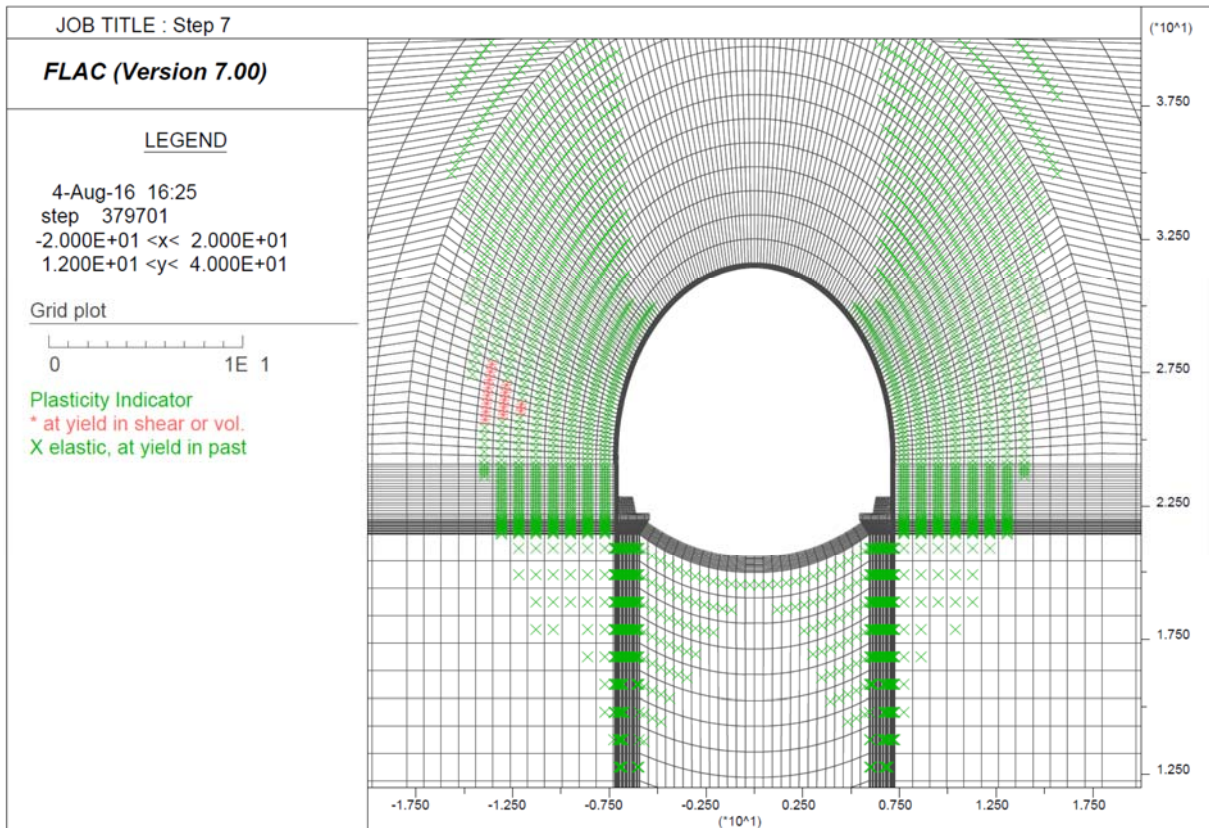
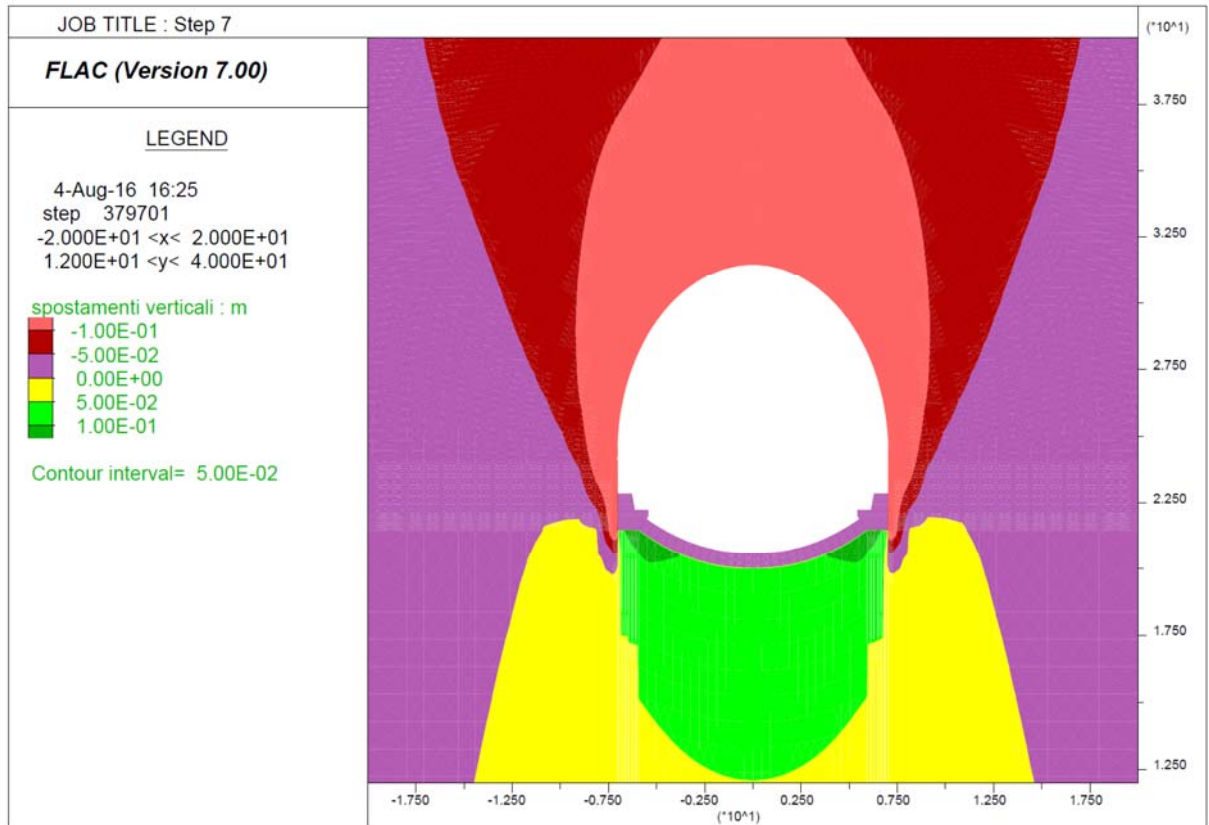
Step 6 – Avanzamento fino a deformazioni esaurite



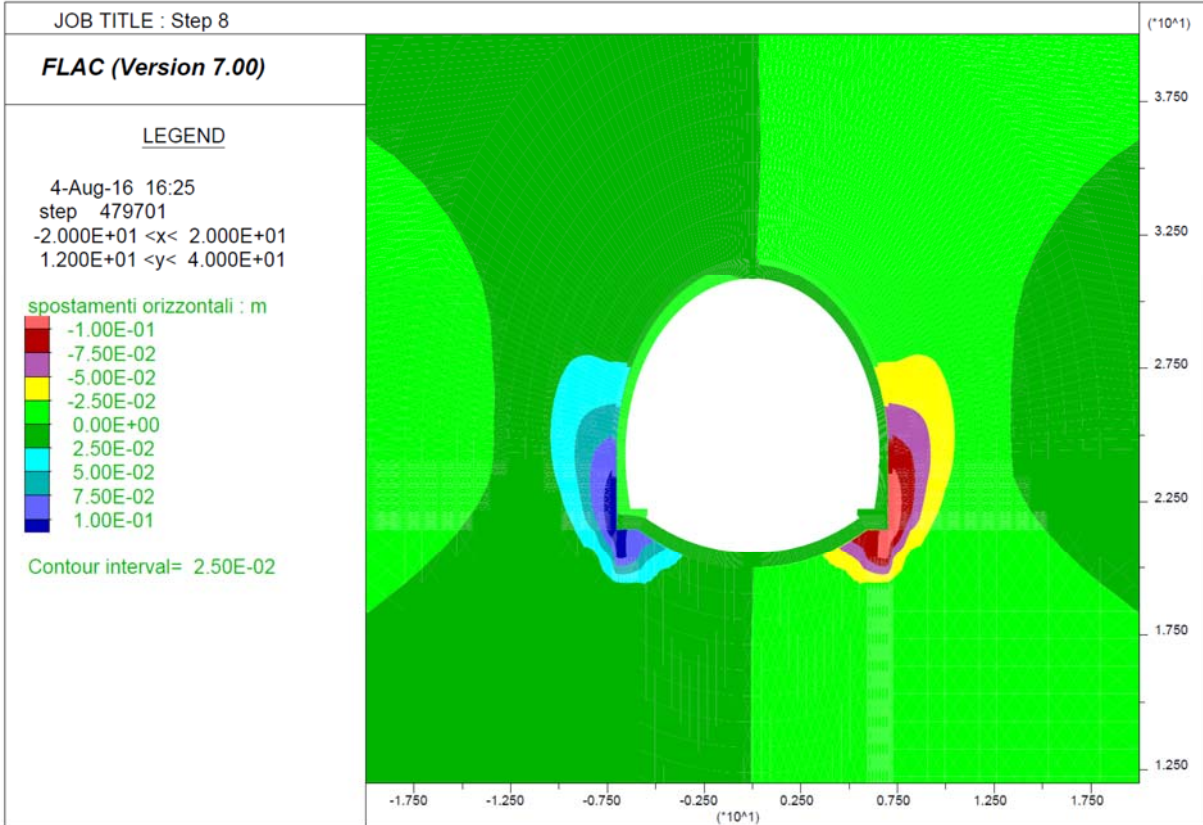
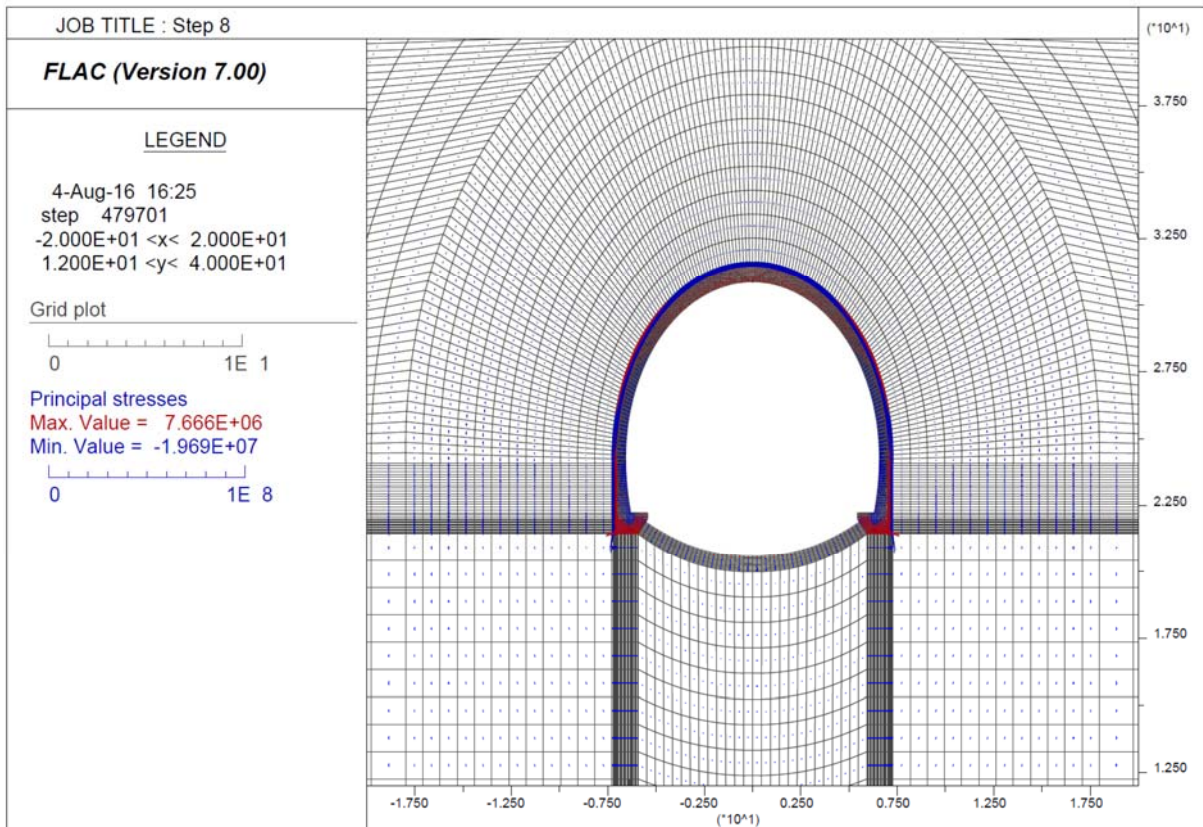


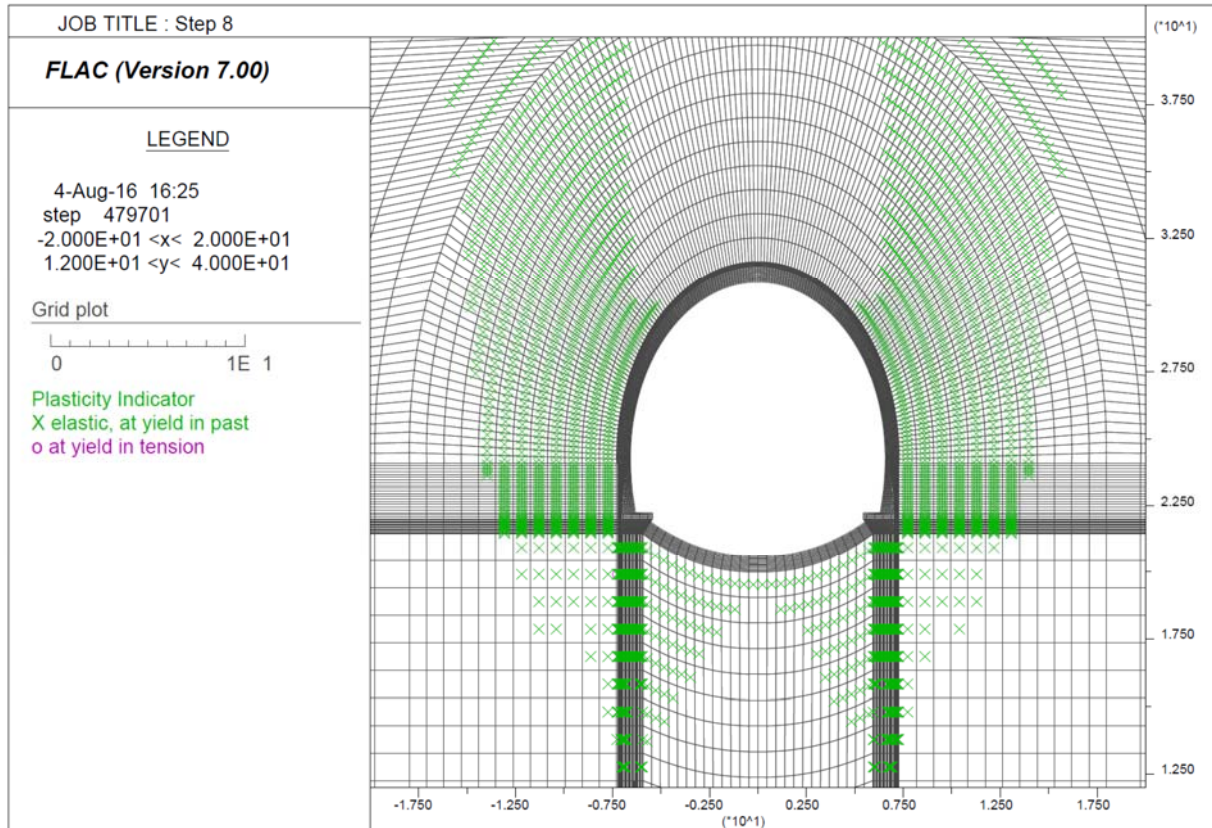
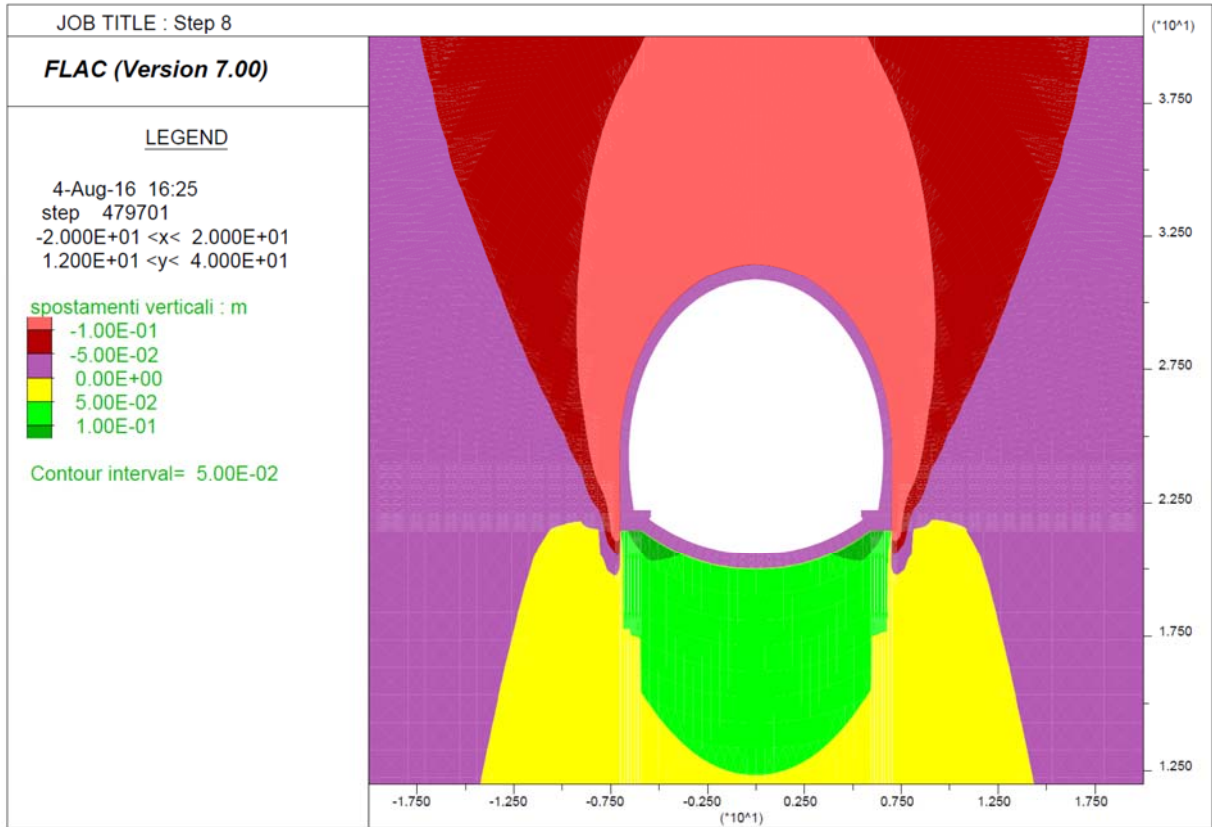
Step 7 - Getto arco rovescio e muretta



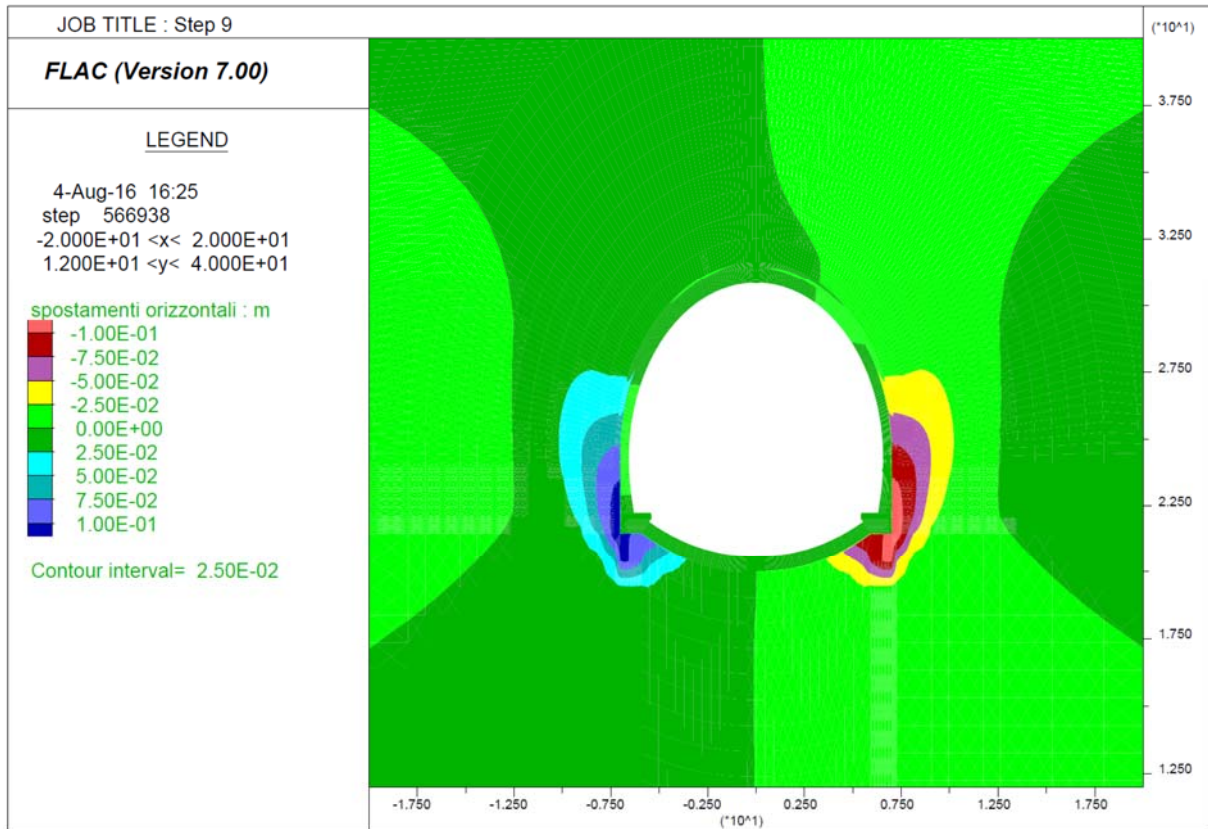
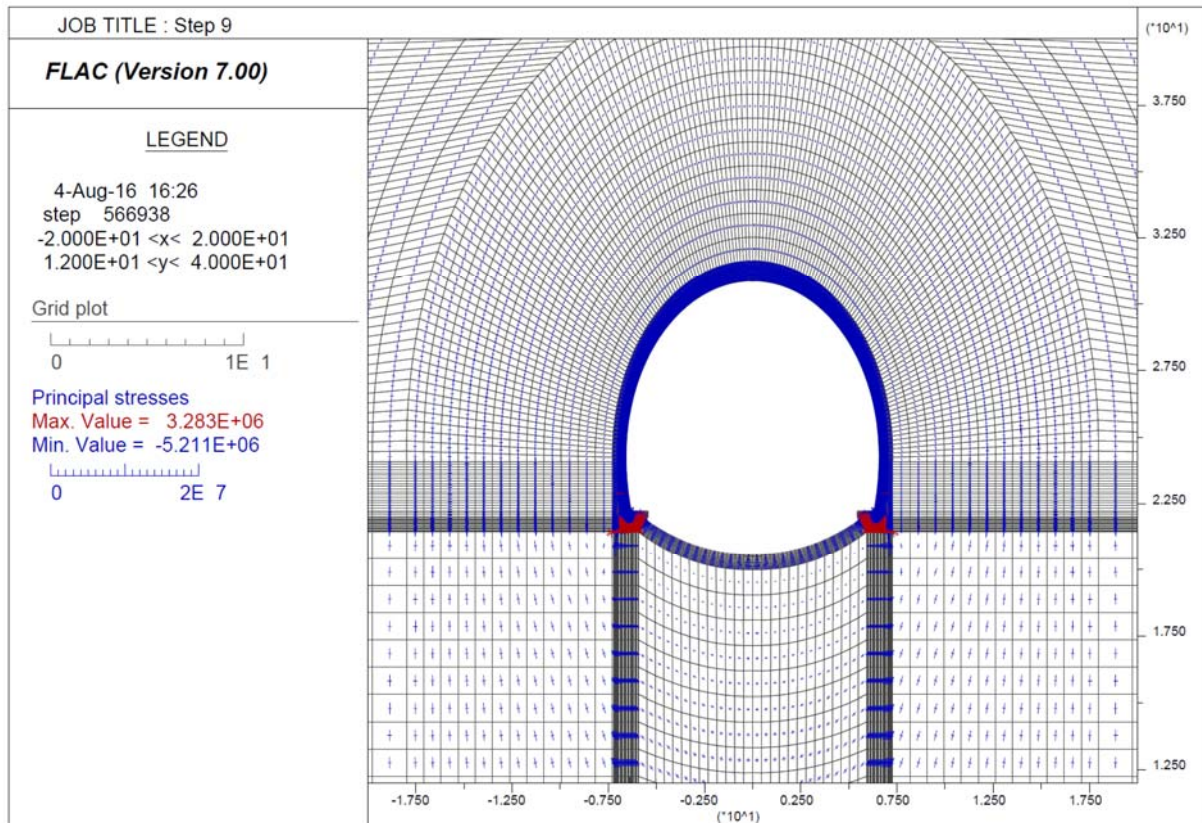


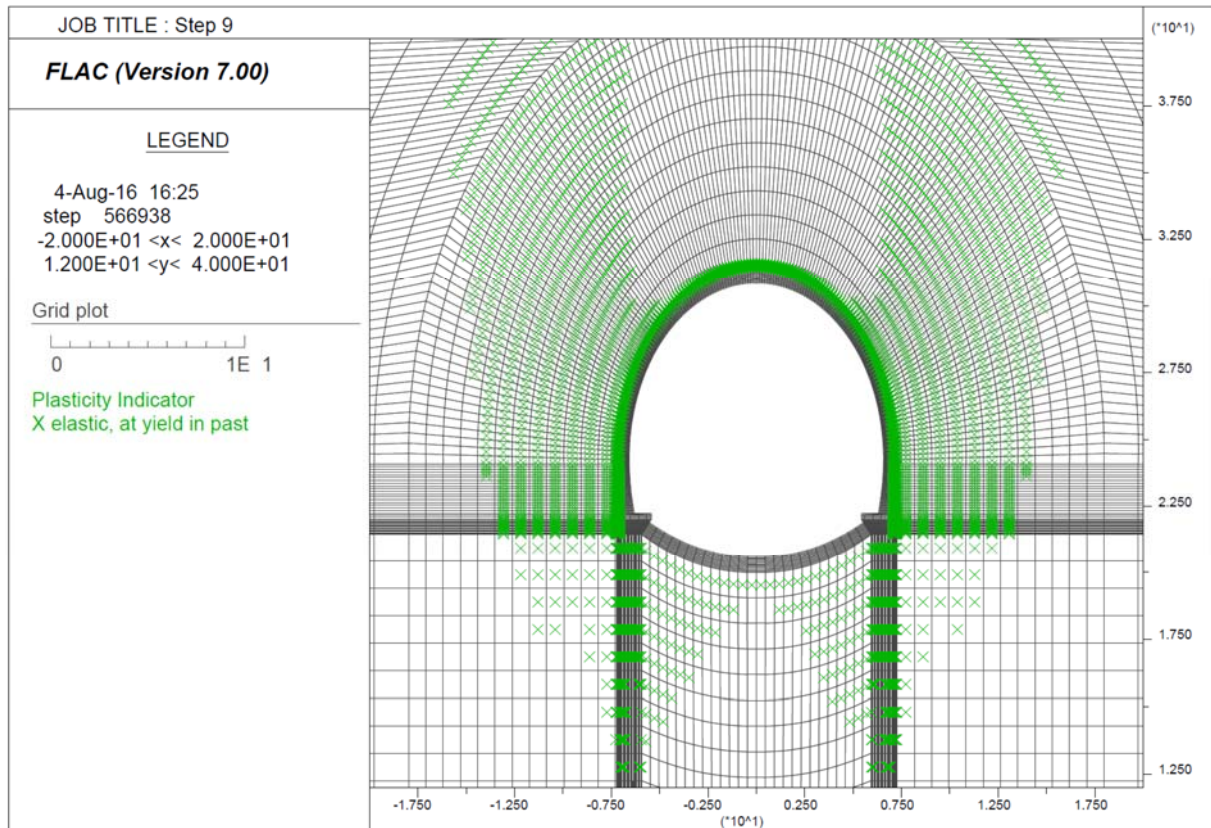
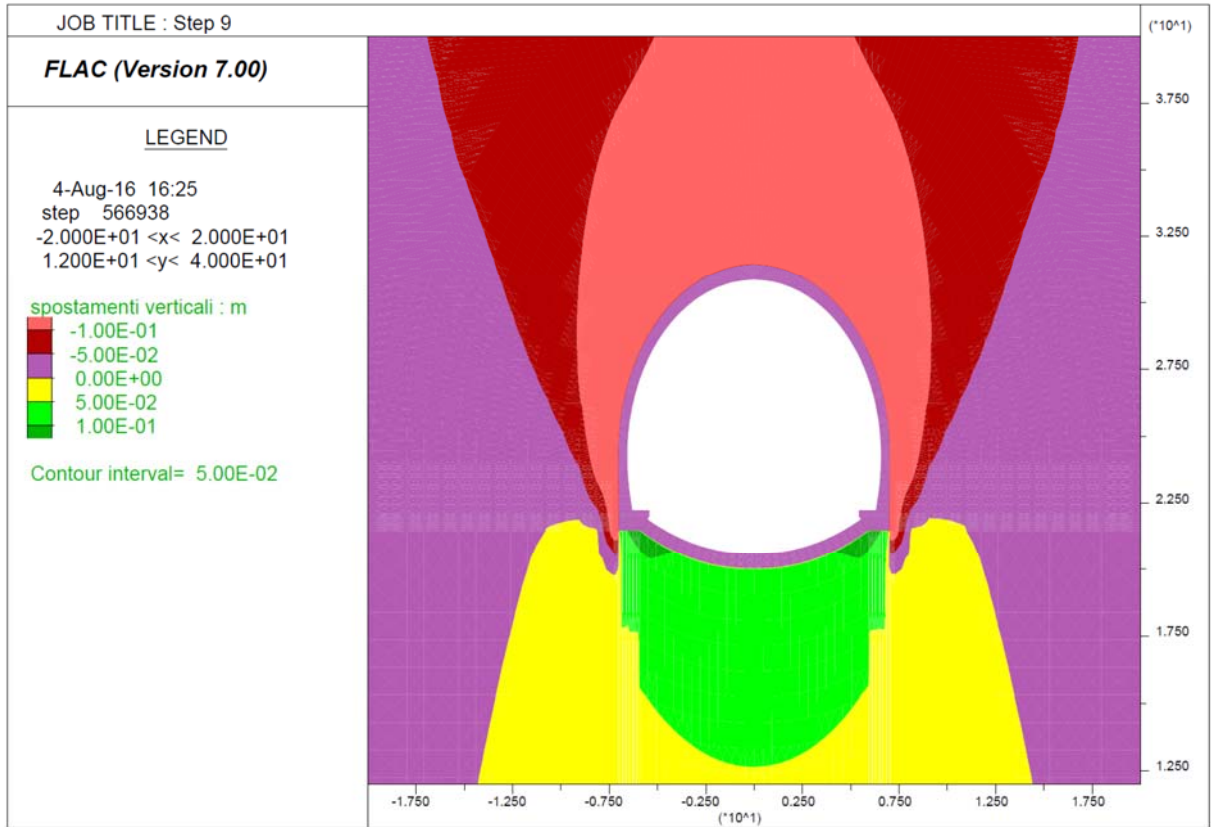
Step 8 - Getto Calotta





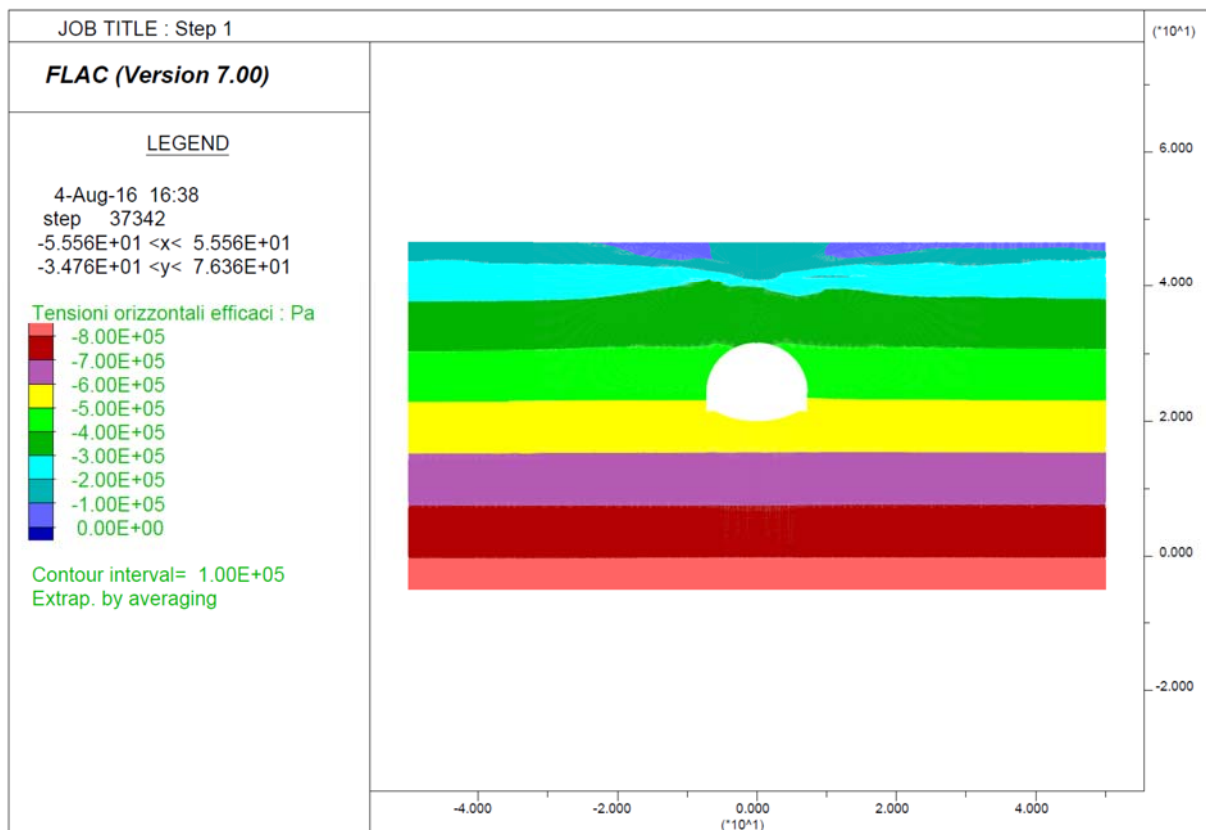
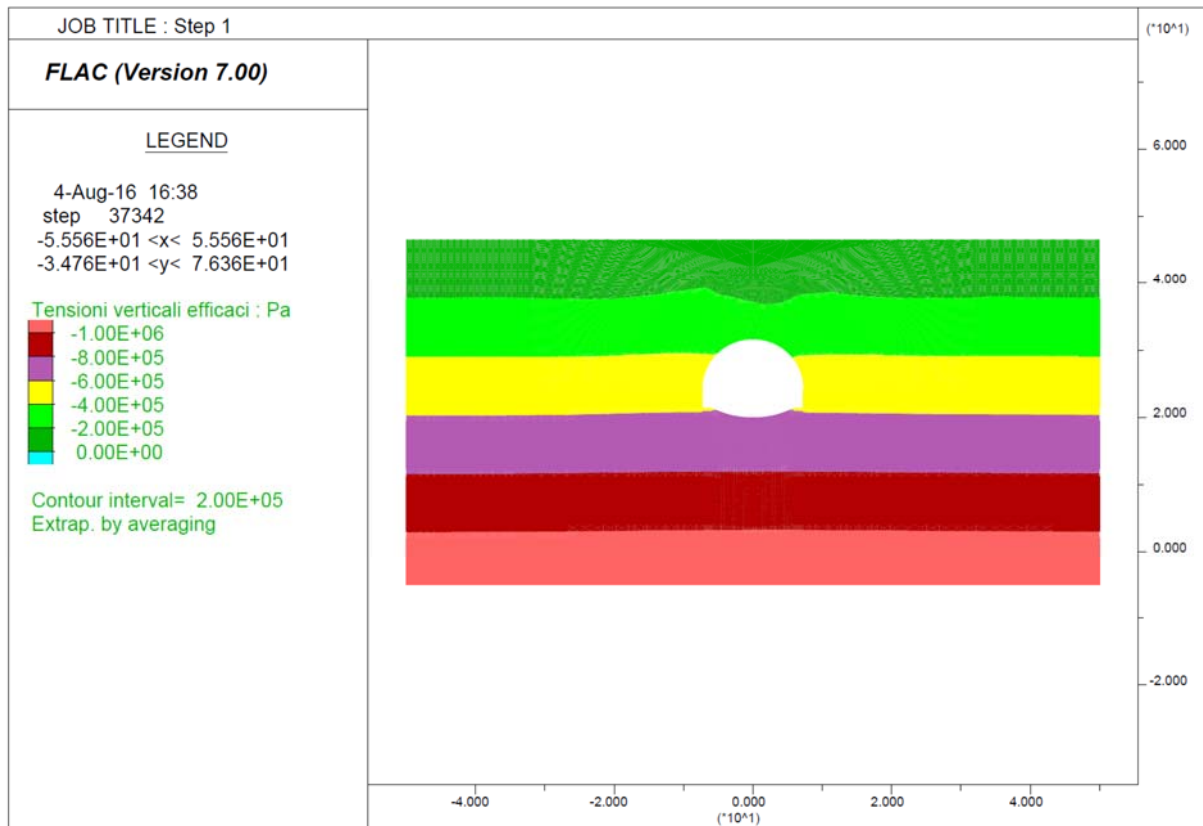
Step 9 - Decadimento dei parametri di resistenza del rivestimento provvisorio



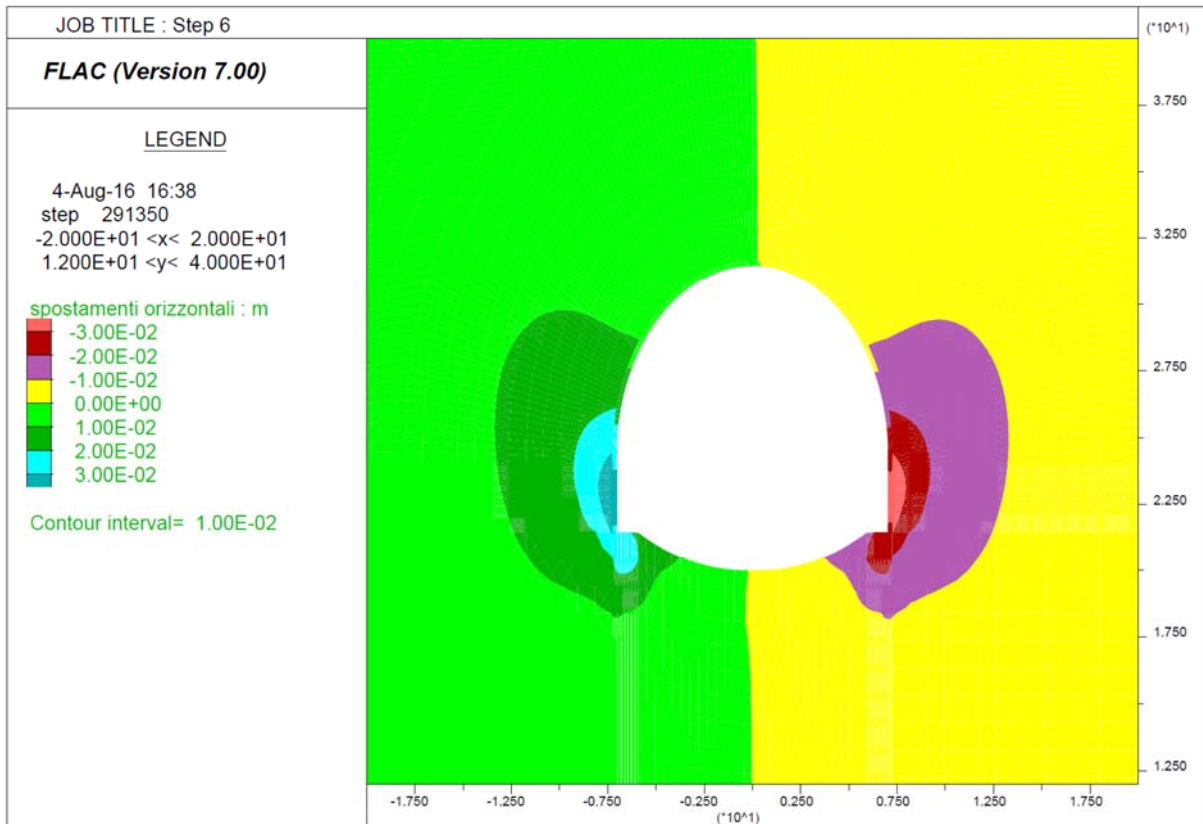
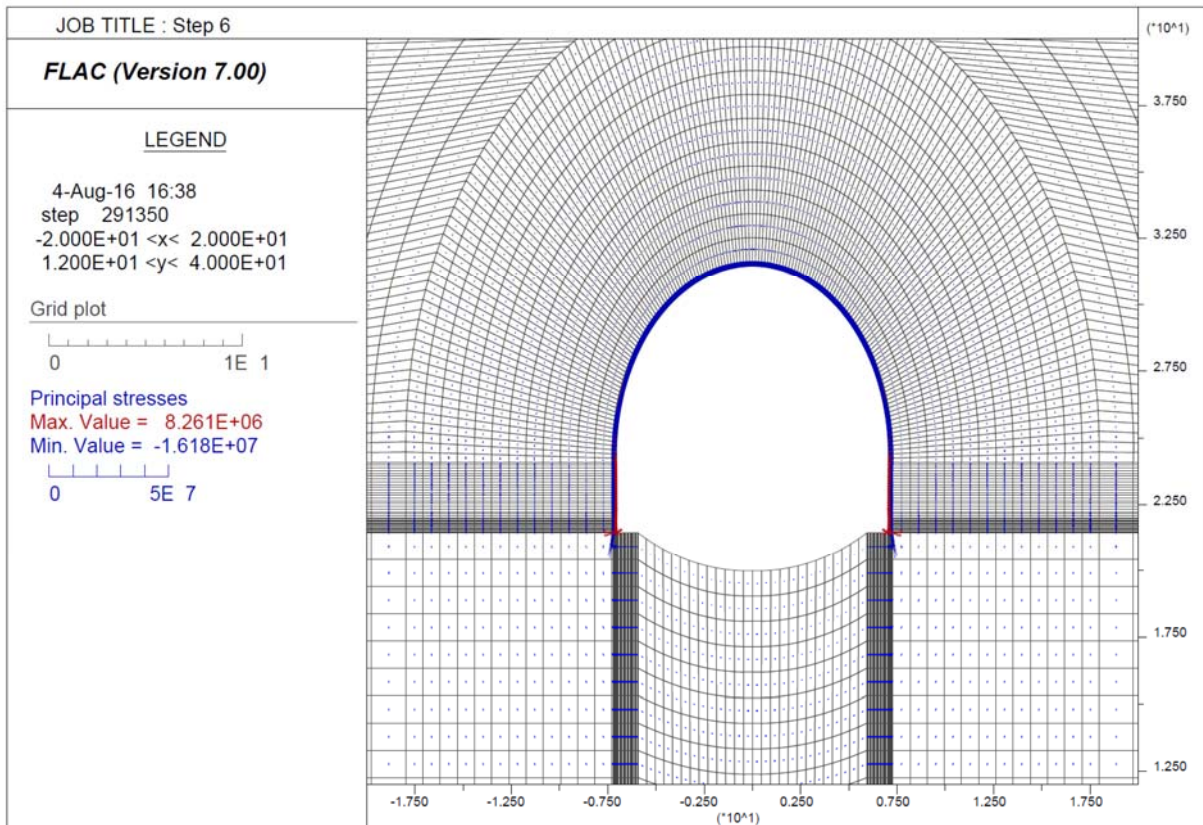


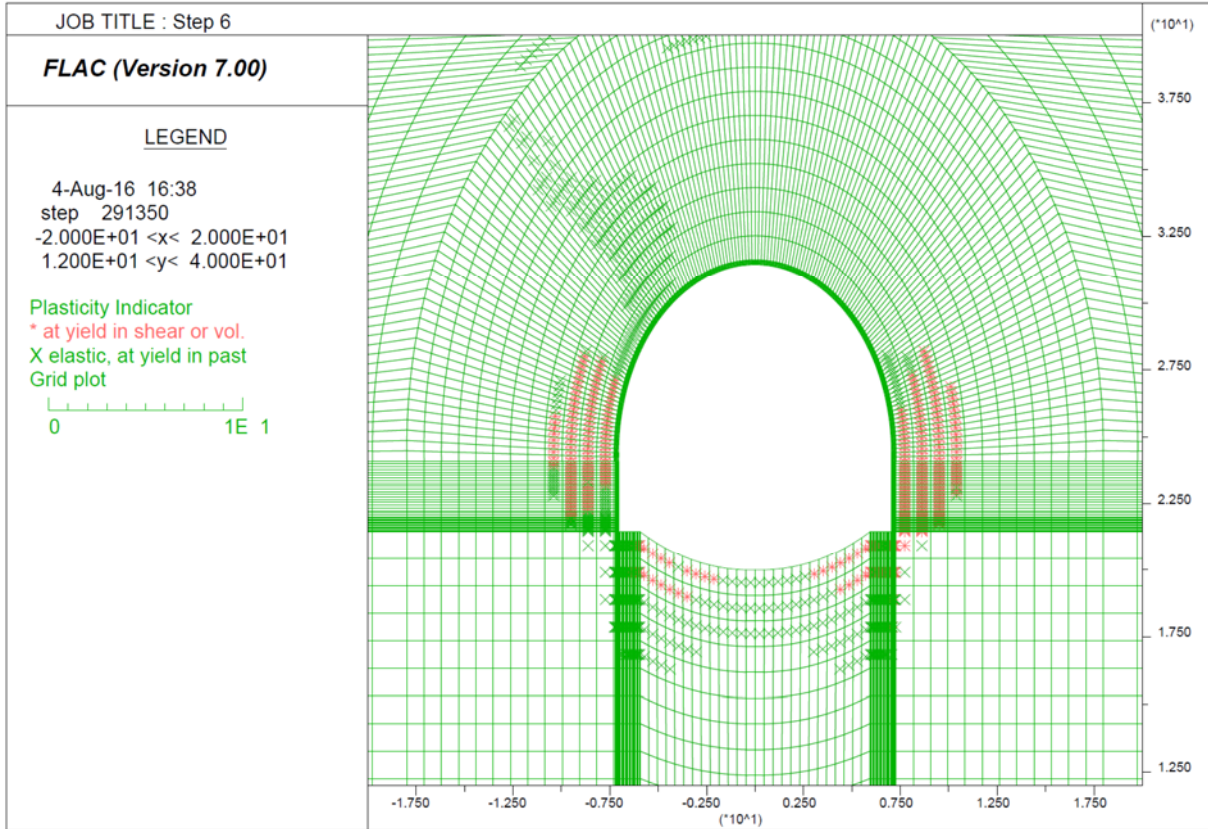
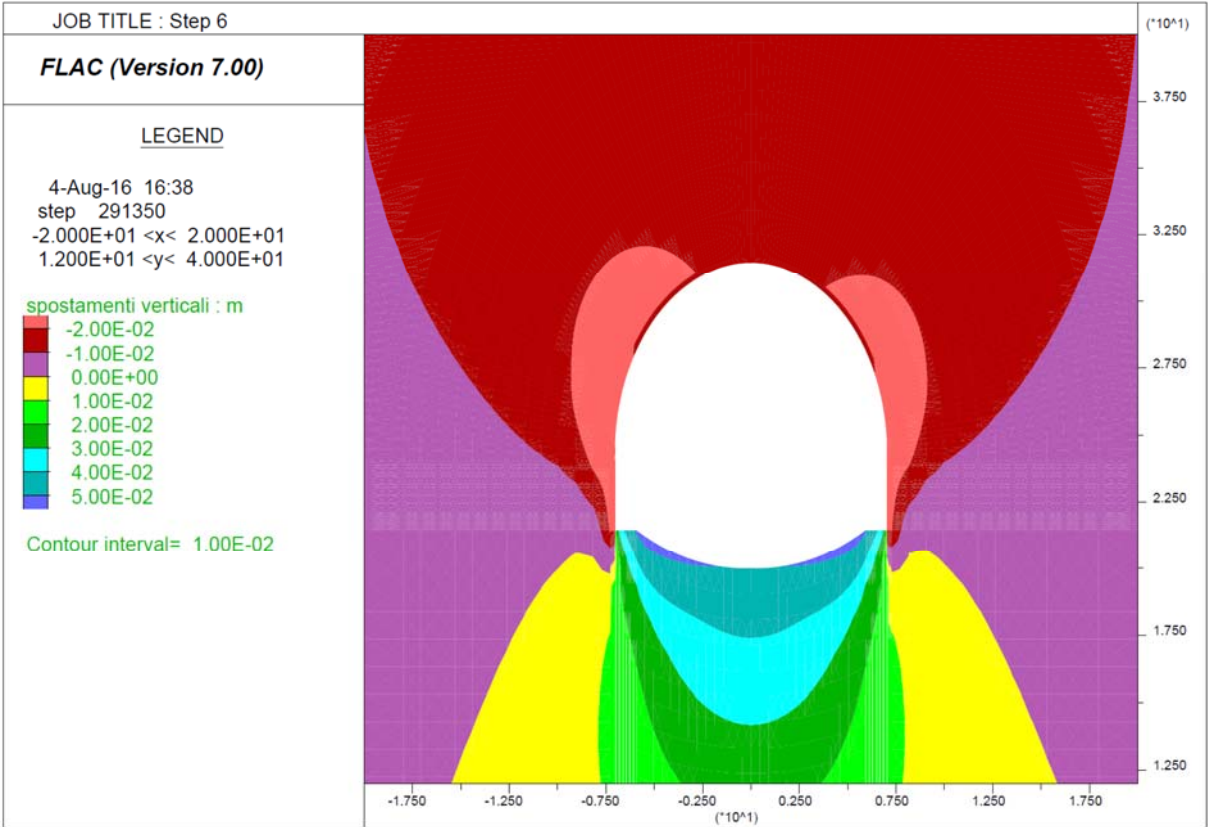
Output Flac – Sezione tipo B2v – Copertura di calcolo = 15 m

Step 1 – Tensioni litostatiche

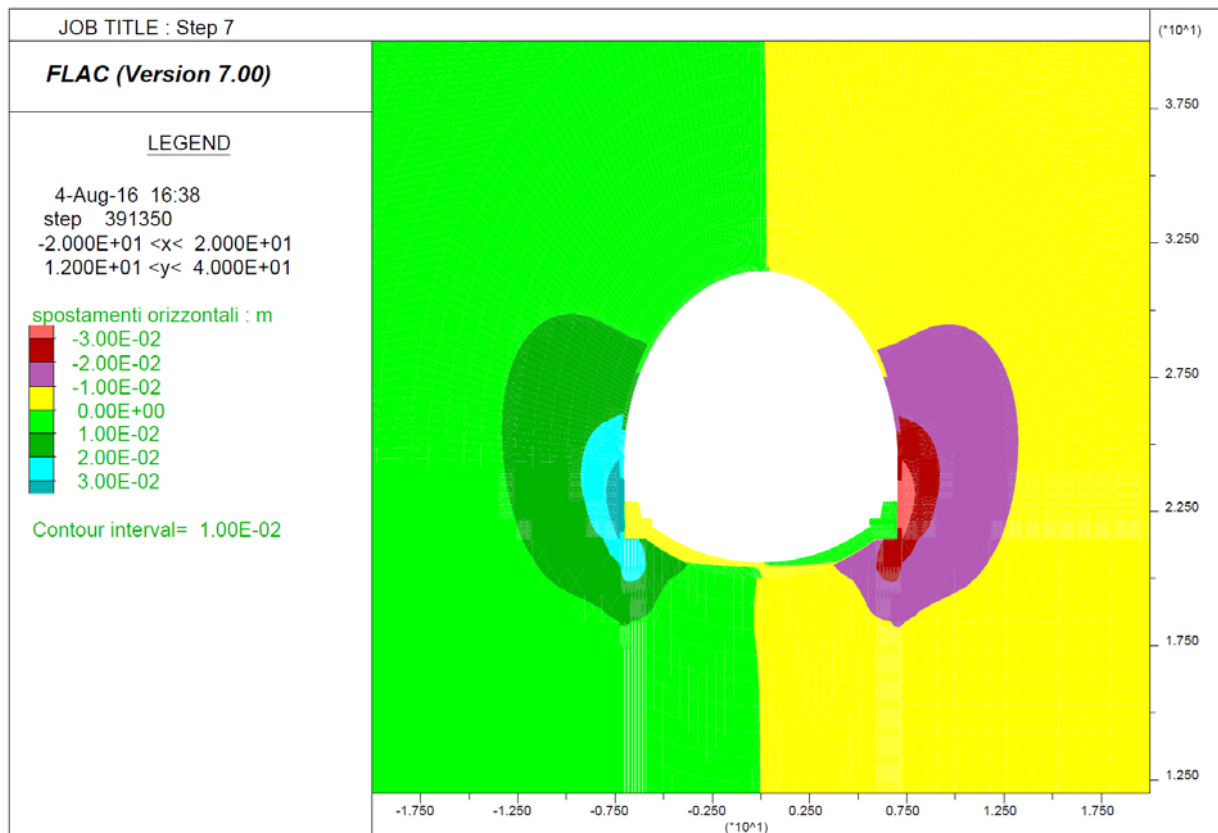
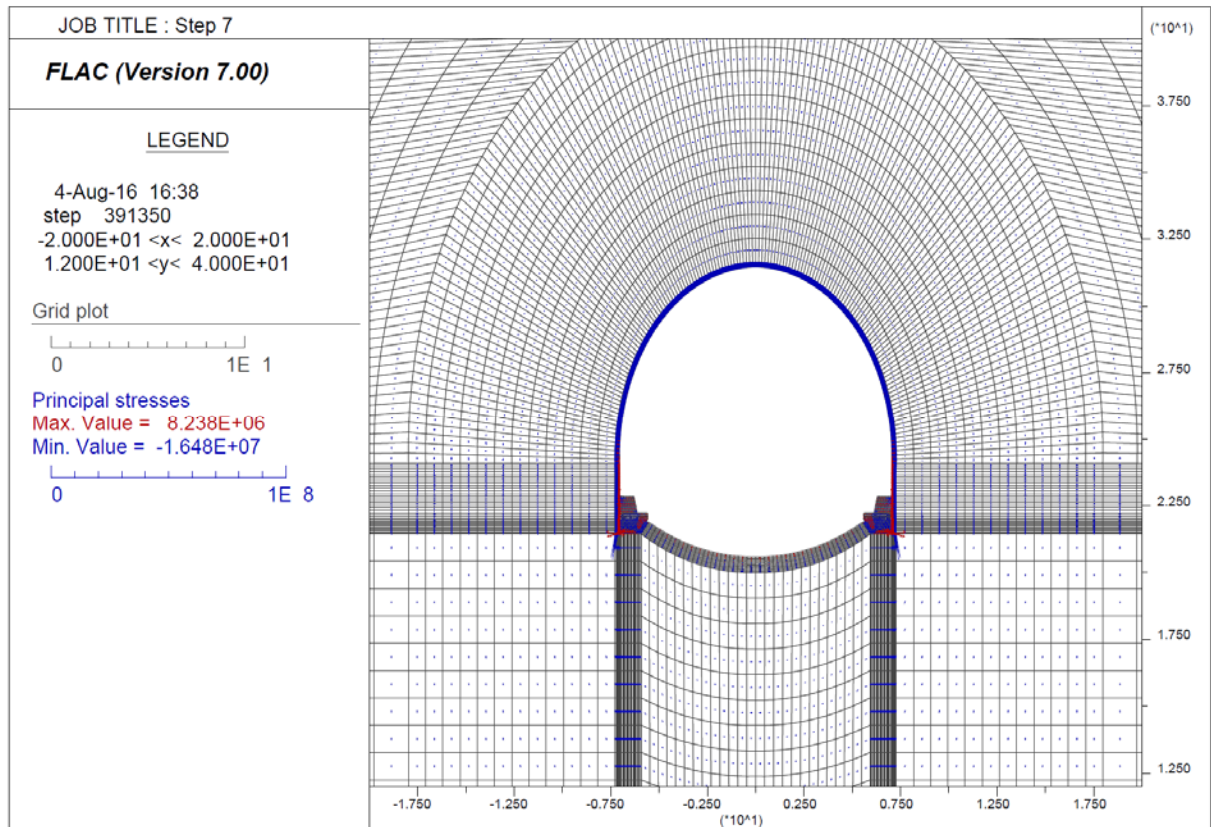


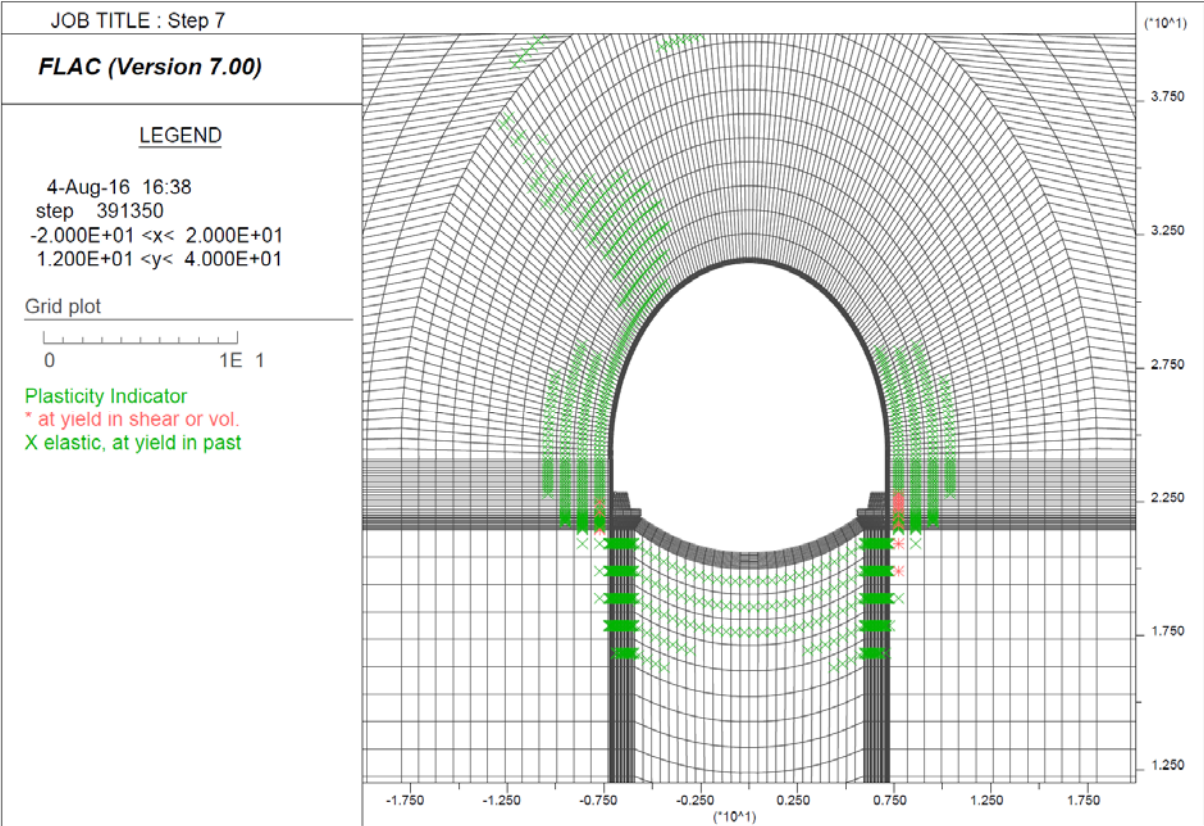
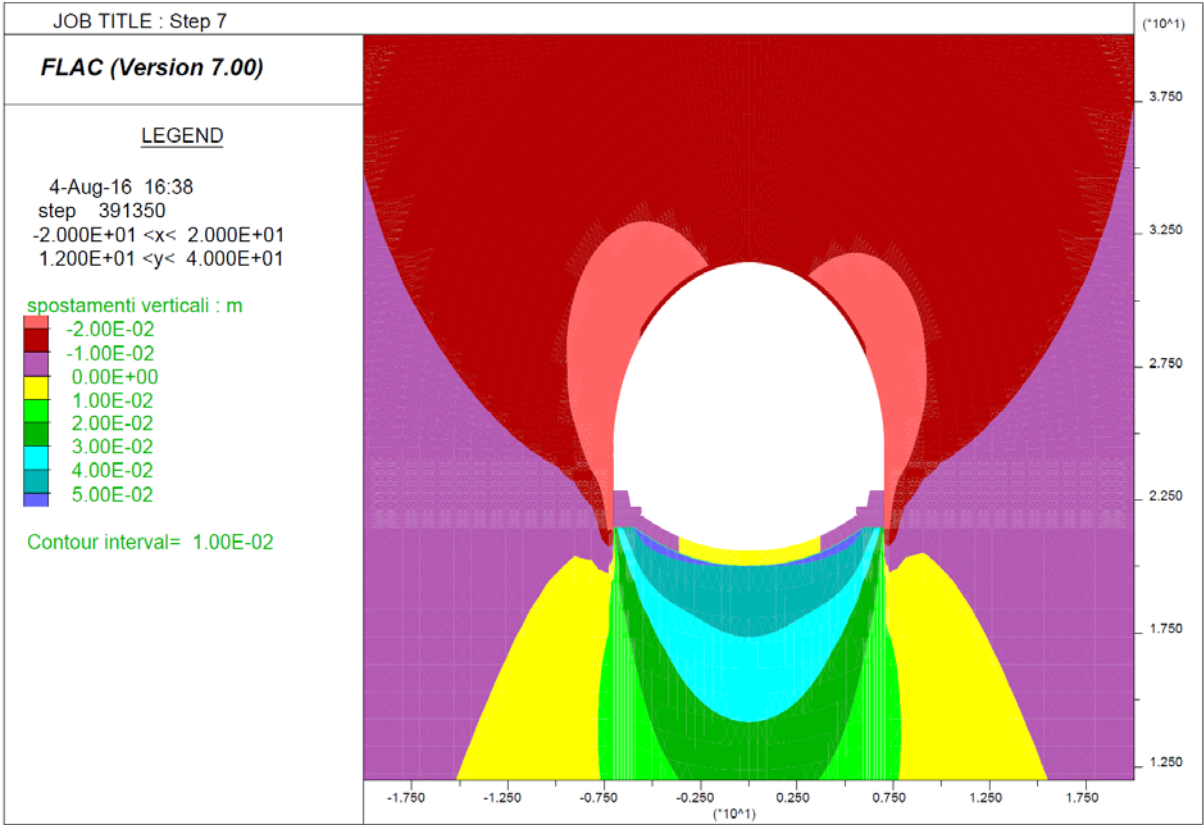
Step 6 – Avanzamento fino a 3D



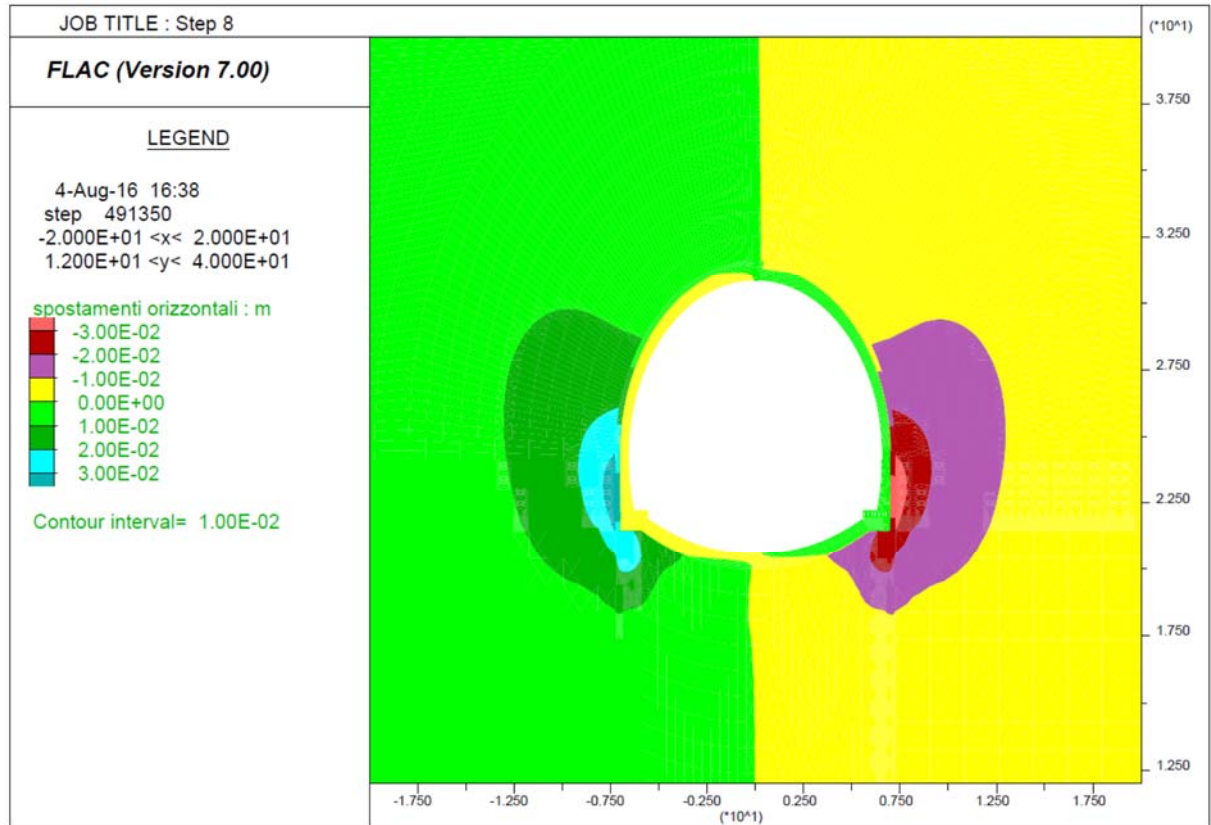
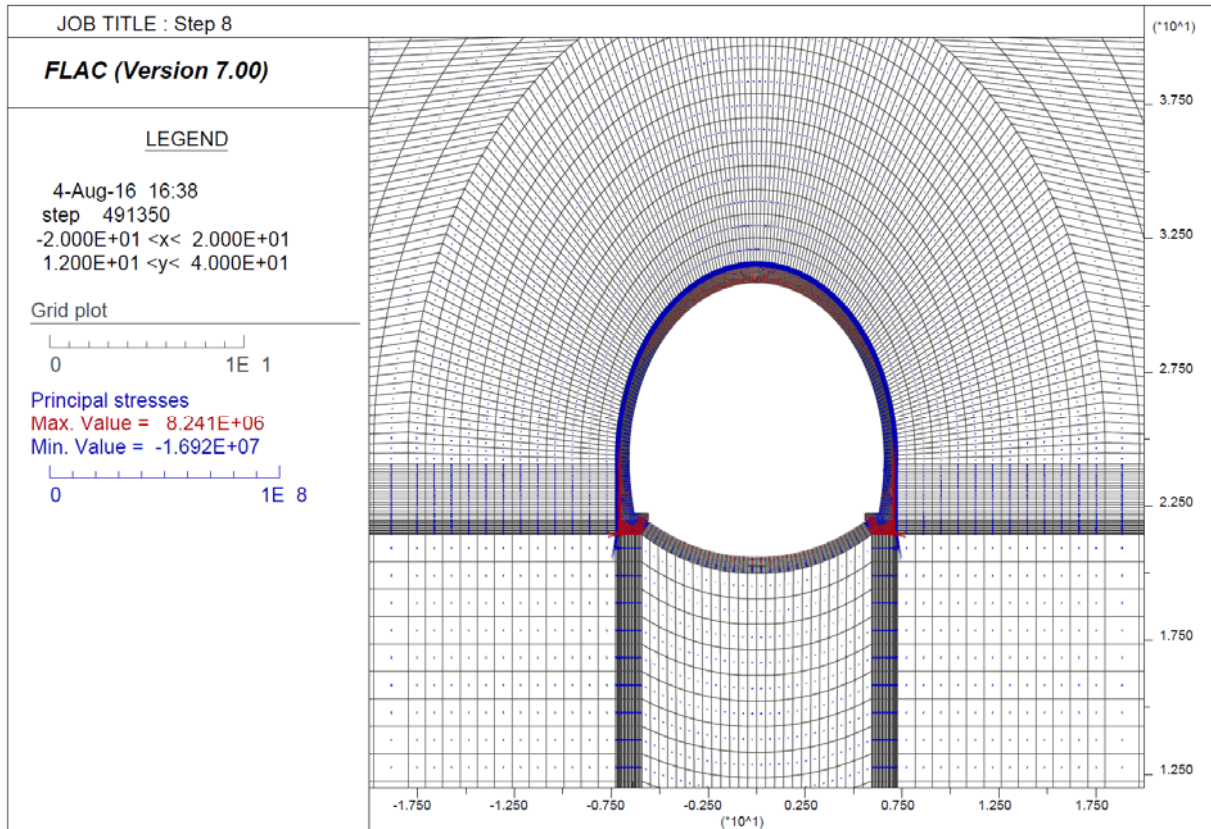


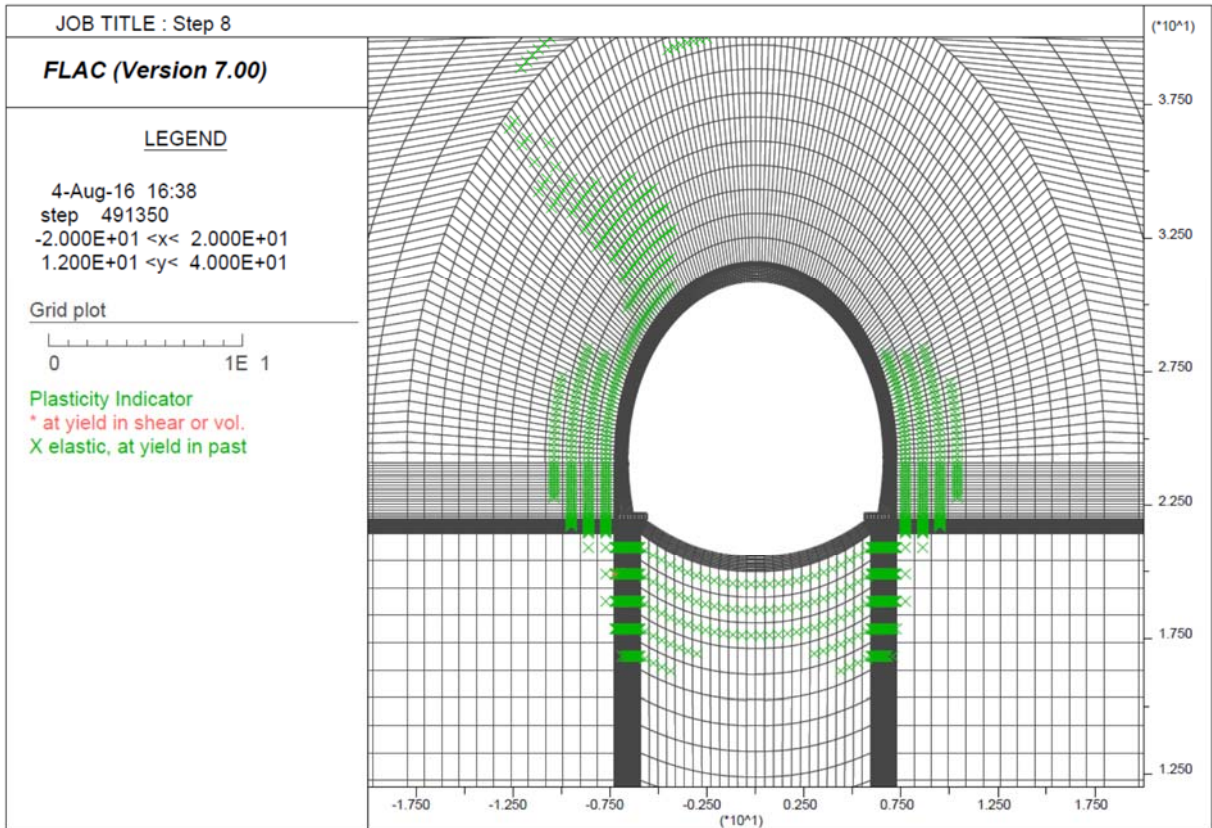
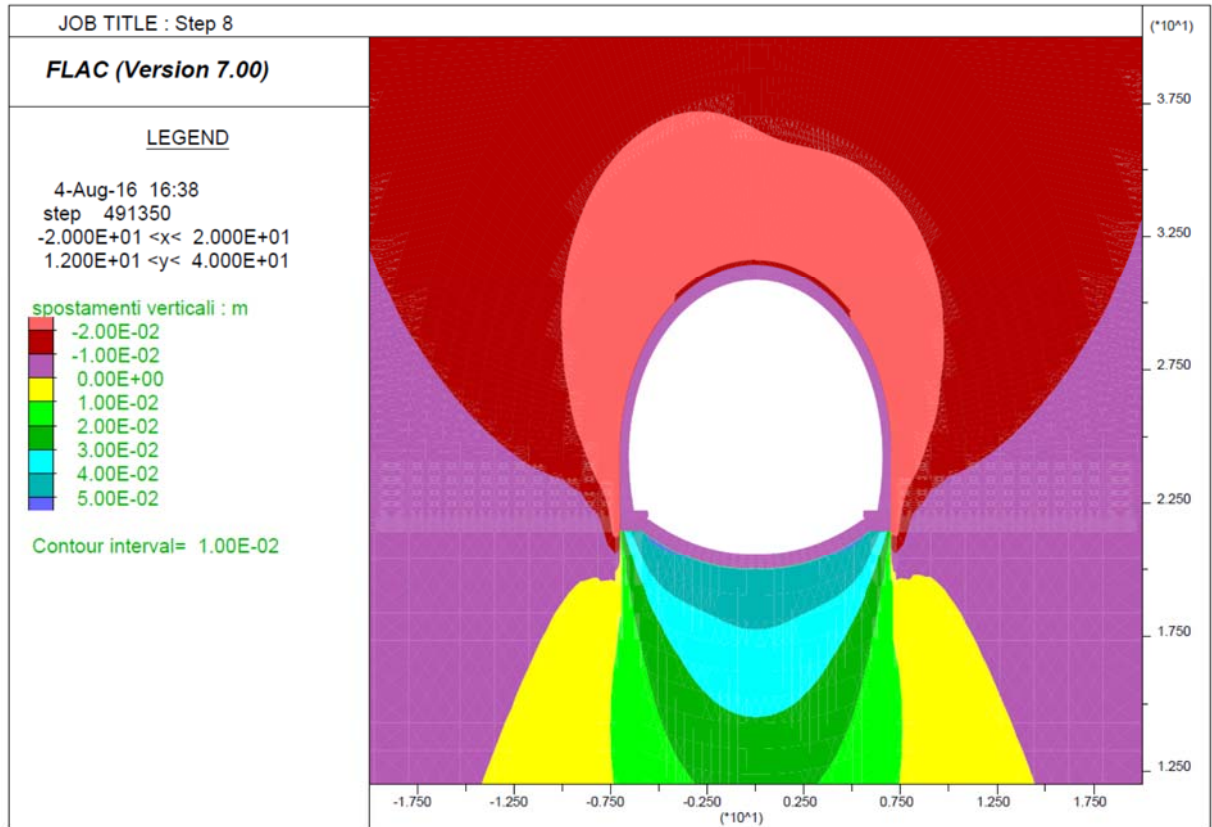
Step 7 - Getto arco rovescio e muretta a 3D e avanzamento fino a deformazioni esaurite





Step 8 - Getto Calotta





Step 9 - Decadimento dei parametri di resistenza del rivestimento provvisorio

