



AUTOSTRADA REGIONALE CISPADANA DAL CASELLO DI REGGIOLO-ROLO SULLA A22 AL CASELLO DI FERRARA SUD SULLA A13

CODICE C.U.P. E81B08000060009

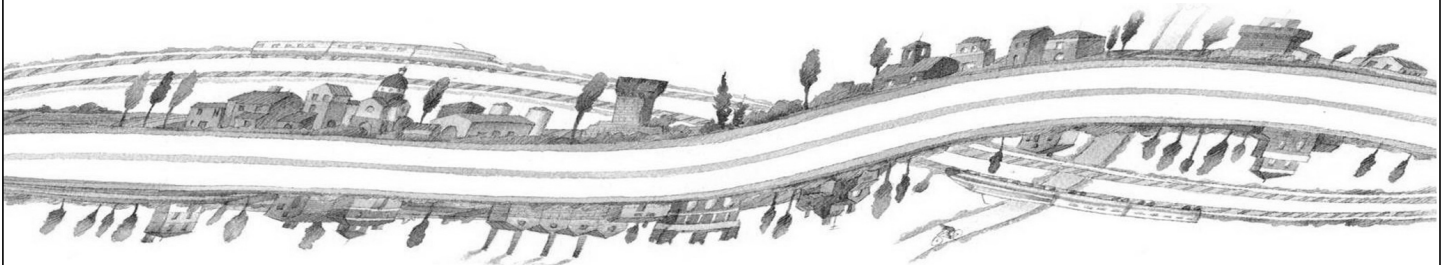
PROGETTO DEFINITIVO

ASSE AUTOSTRADALE (COMPRESIVO DEGLI INTERVENTI LOCALI DI COLLEGAMENTO VIARIO AL SISTEMA AUTOSTRADALE)

GEOLOGIA, IDROGEOLOGIA, SISMICA E GEOTECNICA

GEOTECNICA

RELAZIONE DI VERIFICHE GEOTECNICHE - ALLEGATO 1



IL PROGETTISTA

Ing. Gianfranco Marchi
Albo Ing. Ravenna n°342

RESPONSABILE INTEGRAZIONE
PRESTAZIONI SPECIALISTICHE

Ing. Emilio Salsi
Albo Ing. Reggio Emilia n° 945



IL CONCESSIONARIO

Autostrada Regionale
Cispadana S.p.A.
IL PRESIDENTE
Graziano Pattuzzi

G										
F										
E										
D										
C										
B										
A	17.04.2012	EMISSIONE				A. Boschi	G. Marchi	E. Salsi		
REV.	DATA	DESCRIZIONE				REDAZIONE	CONTROLLO	APPROVAZIONE		
IDENTIFICAZIONE ELABORATO										DATA: MAGGIO 2012
NUM. PROGR.	FASE	LOTTO	GRUPPO	CODICE OPERA WBS	TRATTO OPERA	AMBITO	TIPO ELABORATO	PROGRESSIVO	REV.	SCALA: _
0407	PD	0	A00	A0000	0	GT	RB	07	A	



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1. VERIFICHE DI STABILITA' NEI CONFRONTI DEI FENOMENI DI LIQUEFAZIONE2
2. DEFINIZIONE DEGLI SPESSORI DI BONIFICA – TRATTAZIONE DI BURMISTER.....113



1. VERIFICHE DI STABILITA' NEI CONFRONTI DEI FENOMENI DI LIQUEFAZIONE

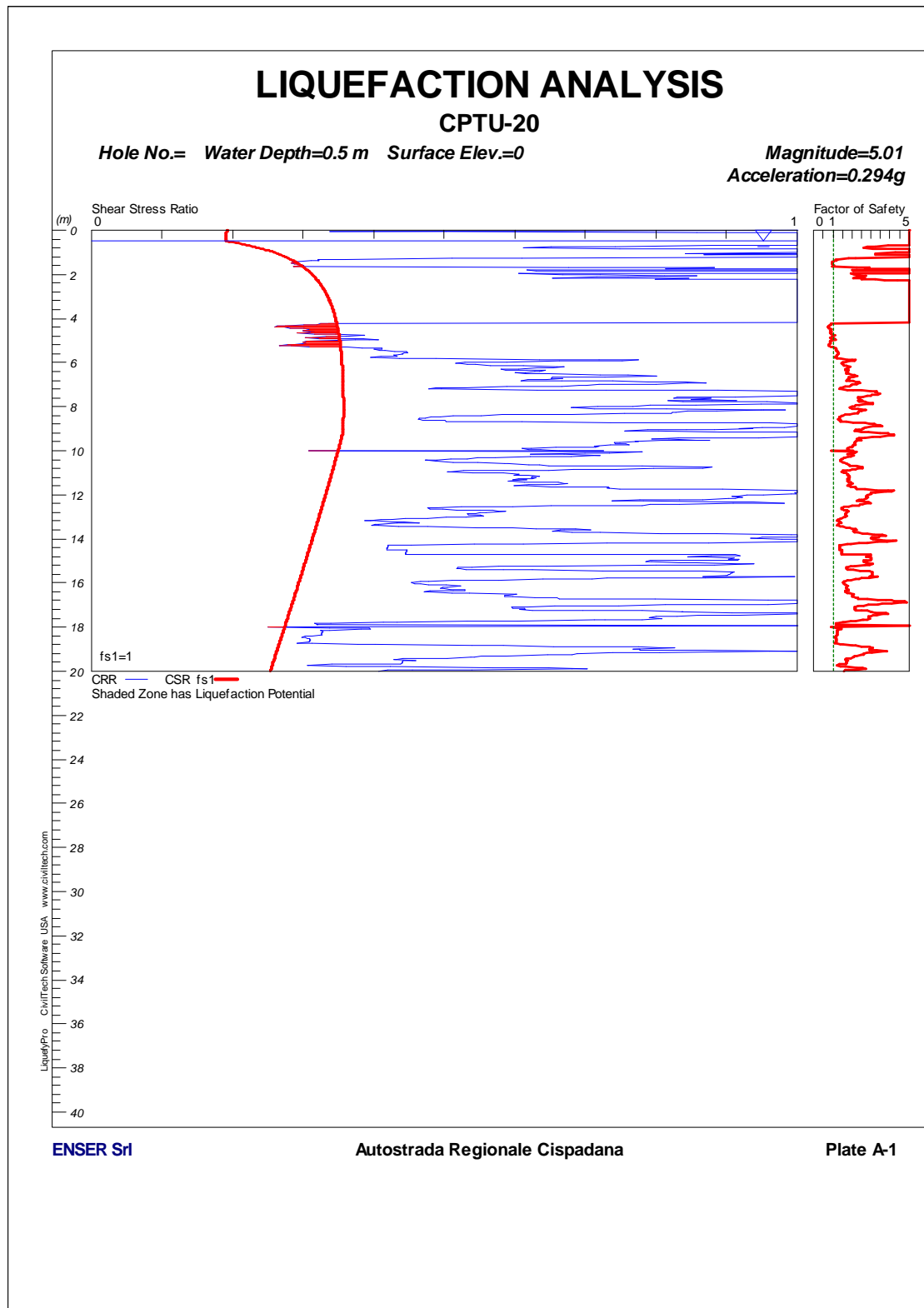


FIGURA 1-1: CPTU20 – VERIFICA A LIQUEFAZIONE.

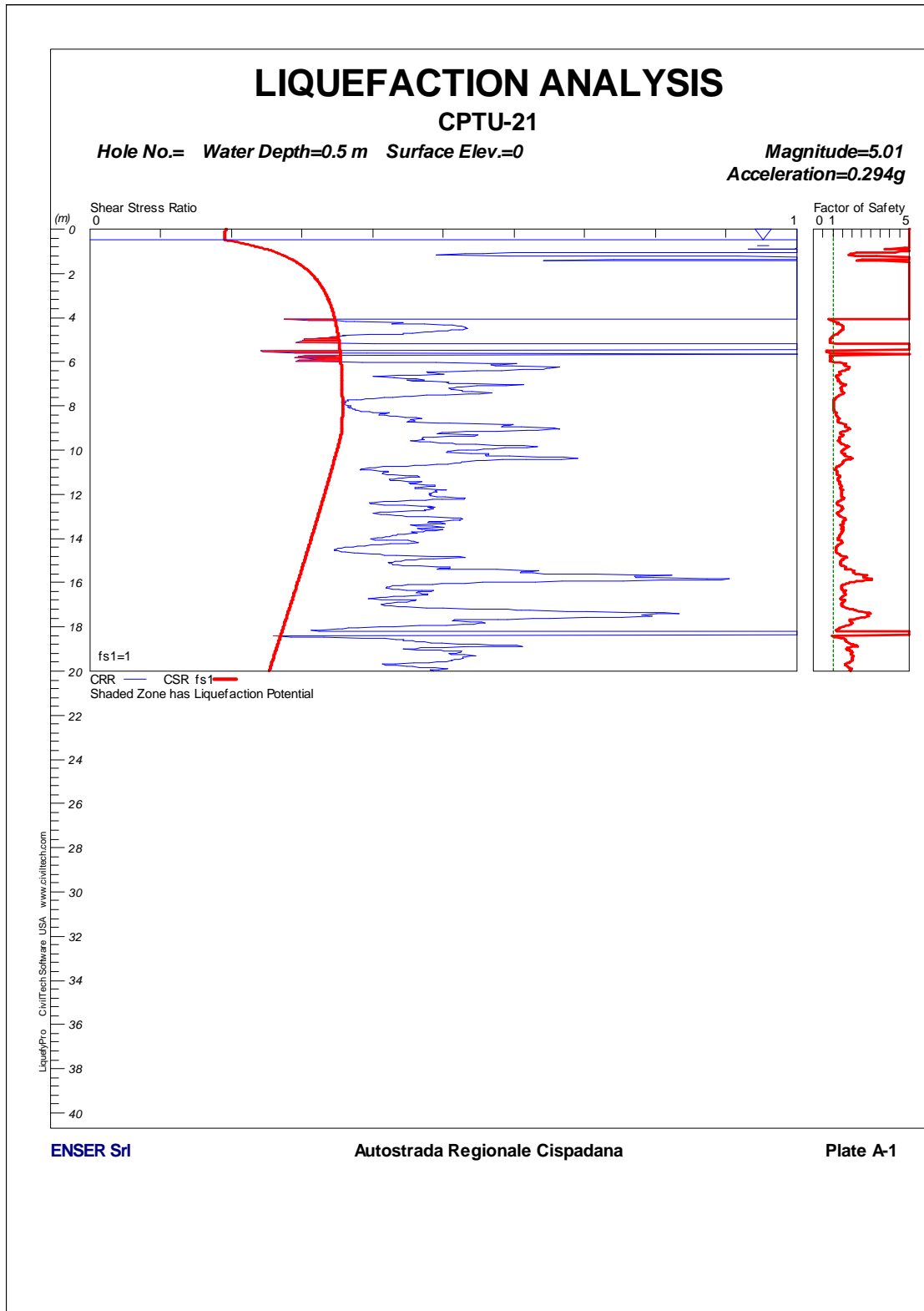


FIGURA 1-2: CPTU21 – VERIFICA A LIQUEFAZIONE.

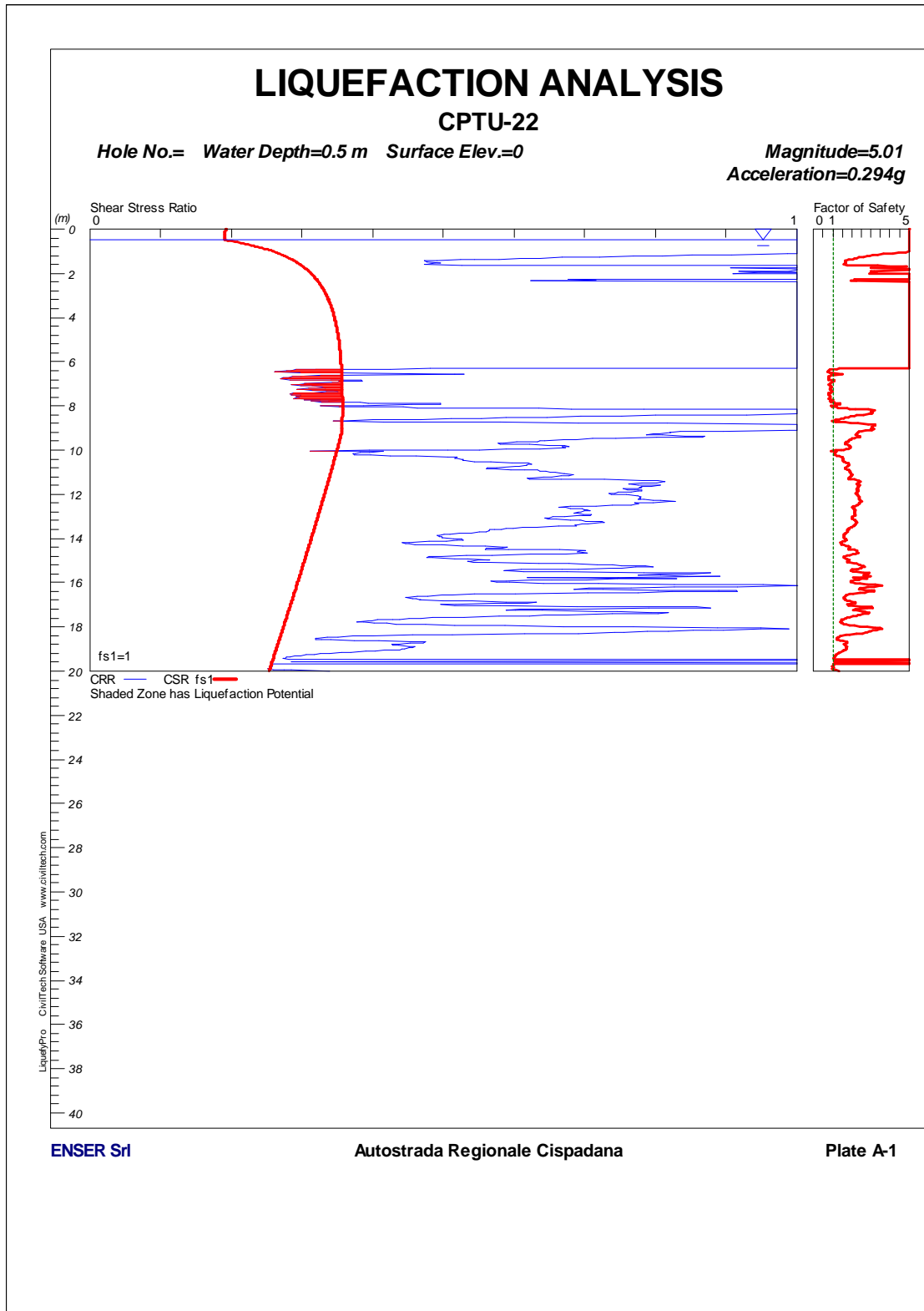


FIGURA 1-3: CPTU22 – VERIFICA A LIQUEFAZIONE.

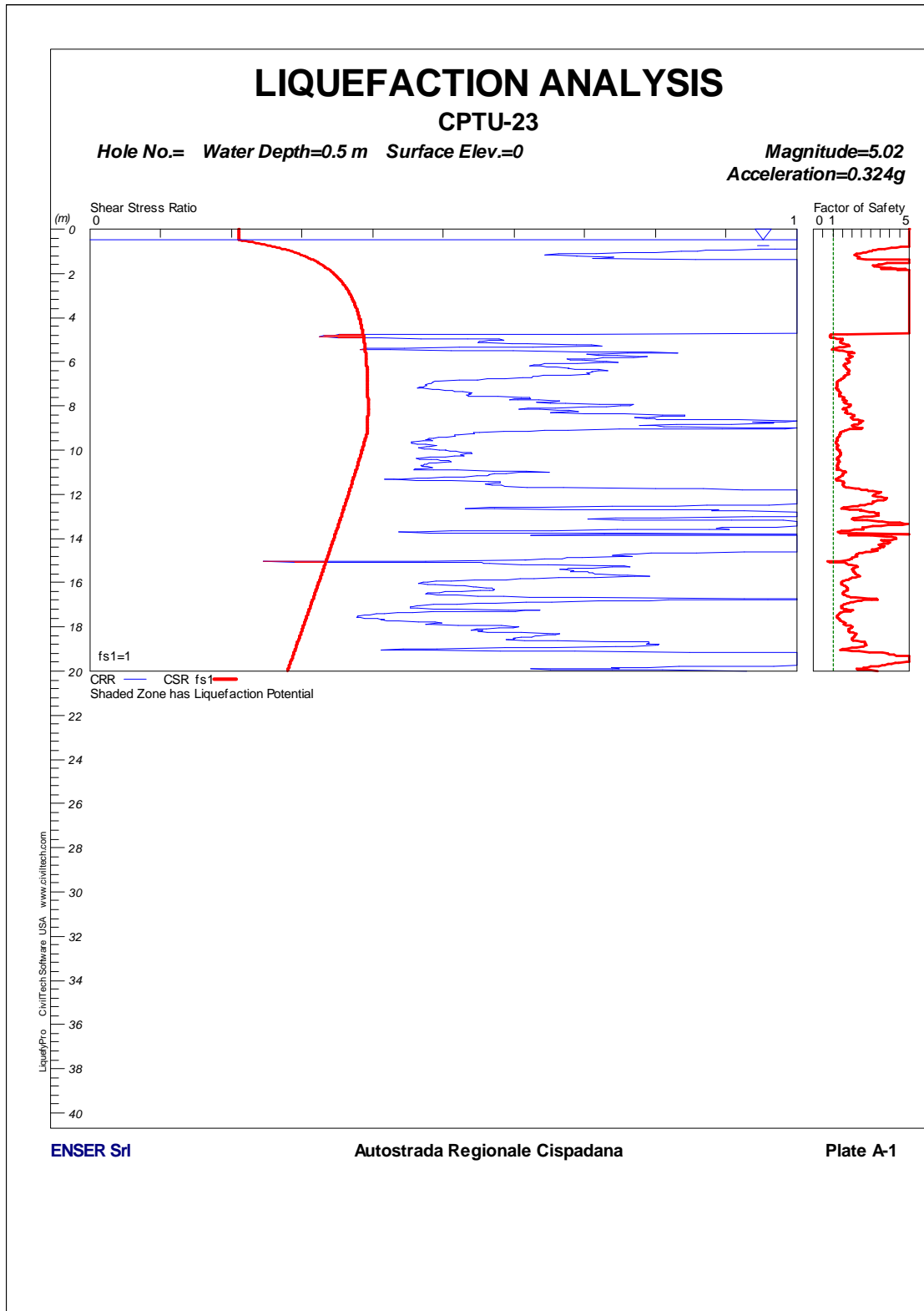


FIGURA 1-4: CPTU23 – VERIFICA A LIQUEFAZIONE.

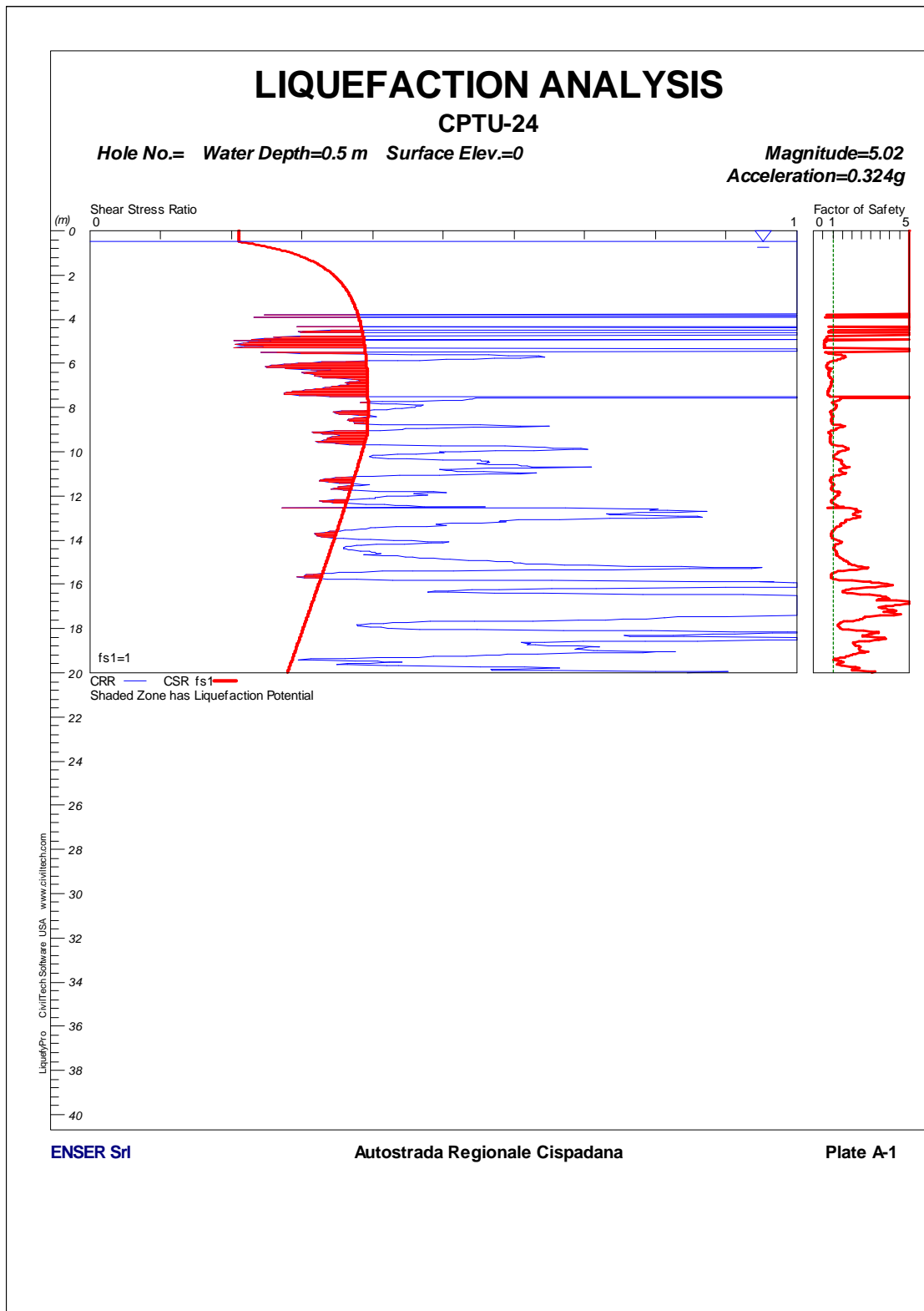


FIGURA 1-5: CPTU24 – VERIFICA A LIQUEFAZIONE.

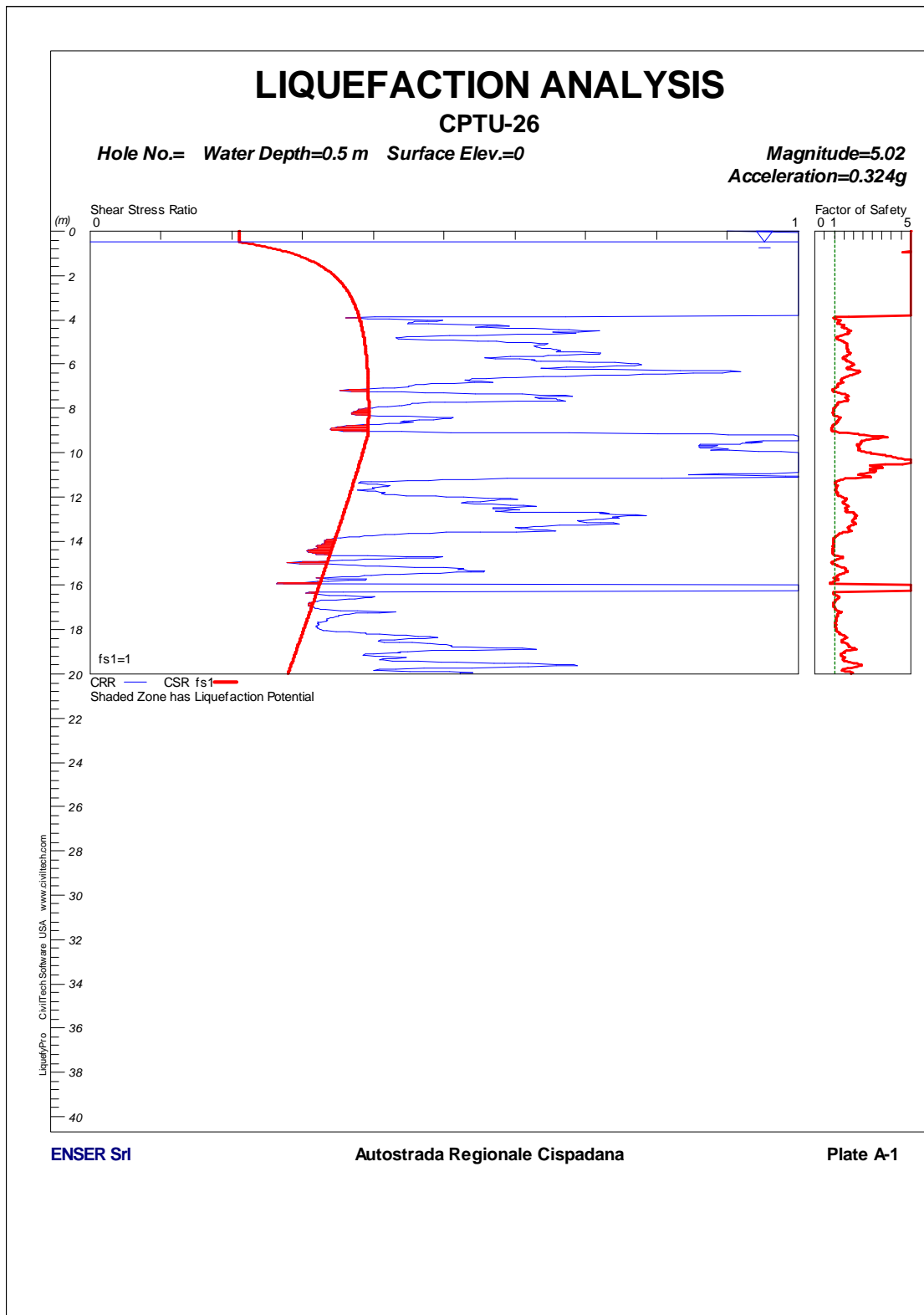


FIGURA 1-6: CPTU26 – VERIFICA A LIQUEFAZIONE.

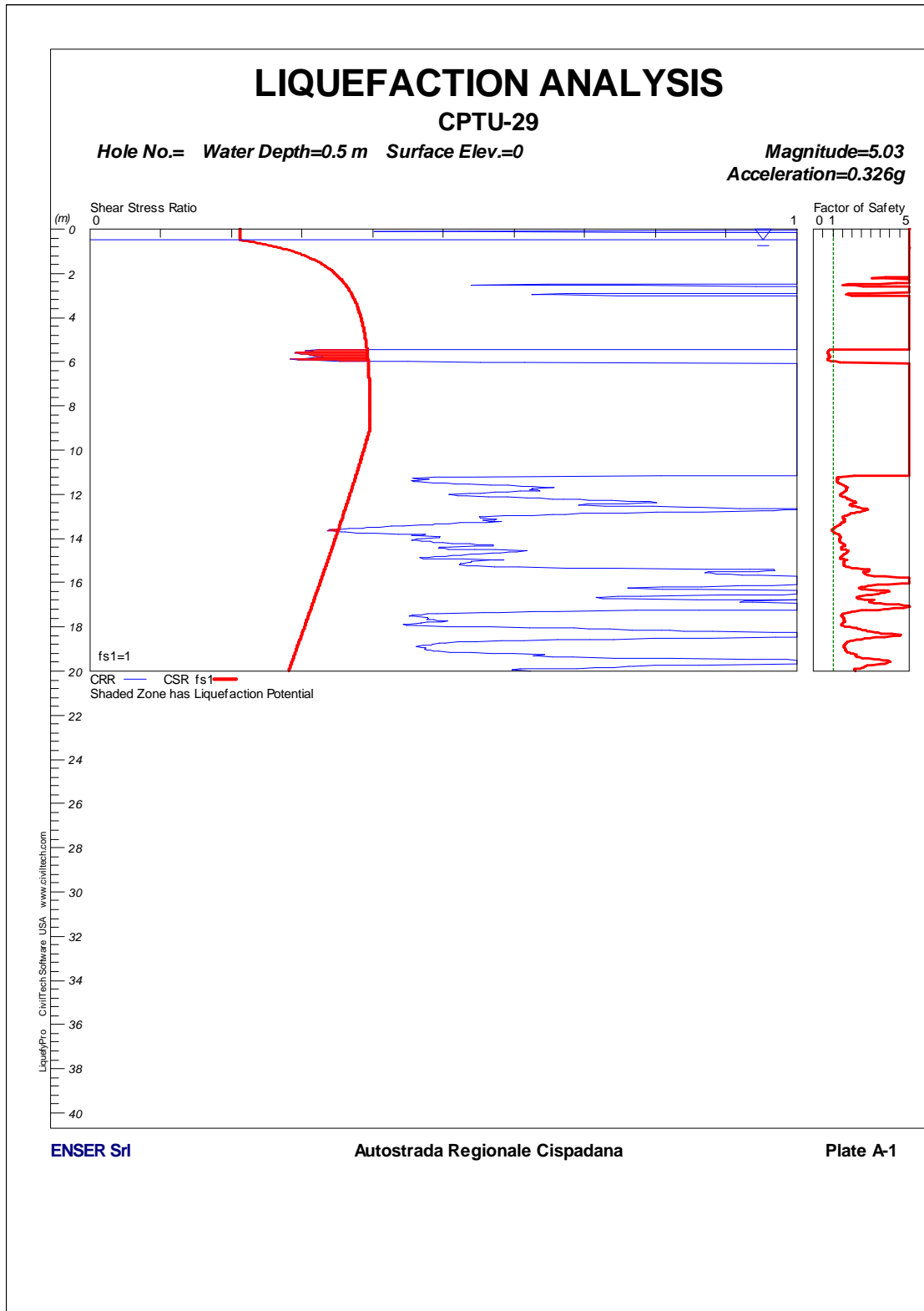


FIGURA 1-7: CPTU29 – VERIFICA A LIQUEFAZIONE.

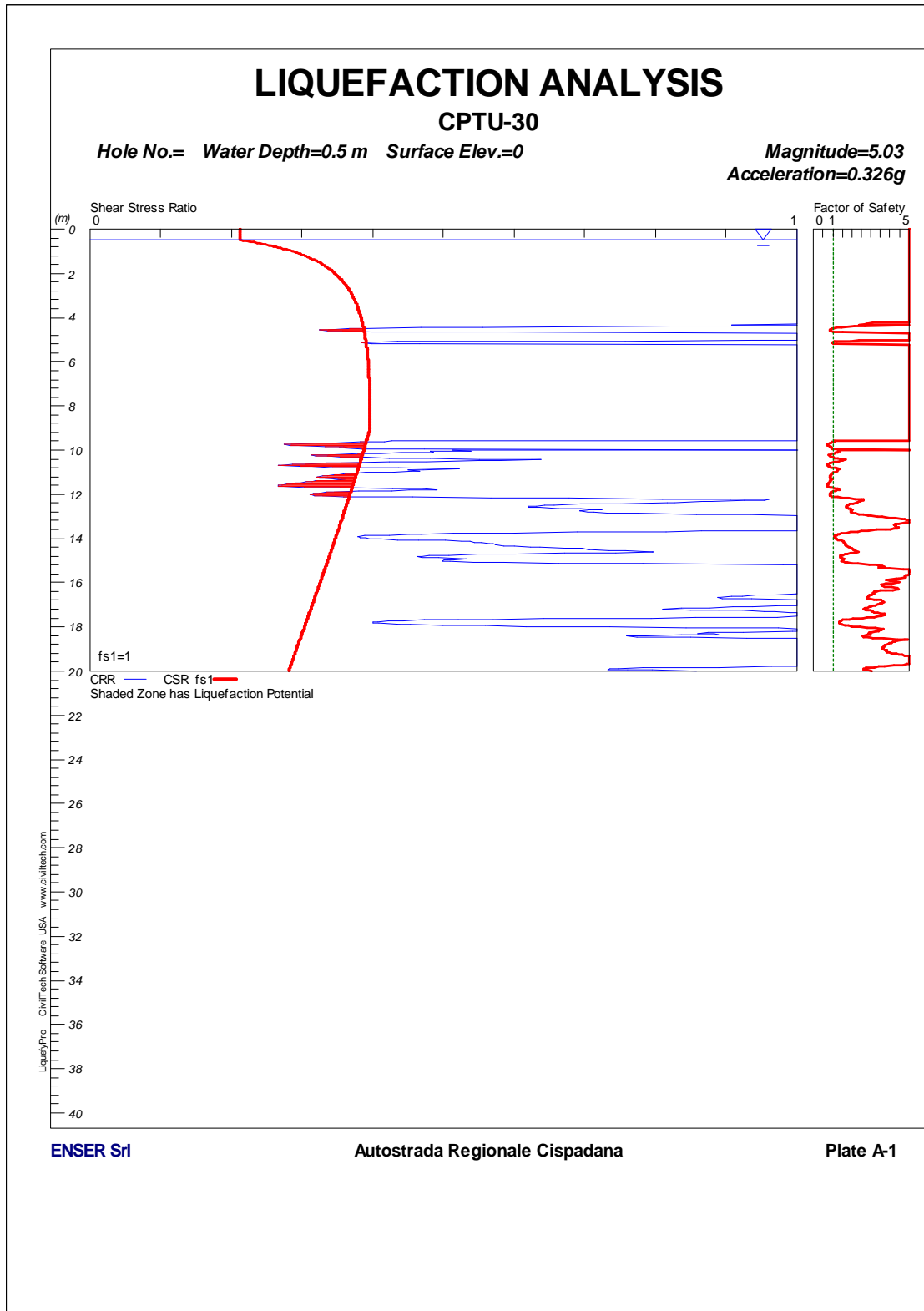


FIGURA 1-8: CPTU30 – VERIFICA A LIQUEFAZIONE.

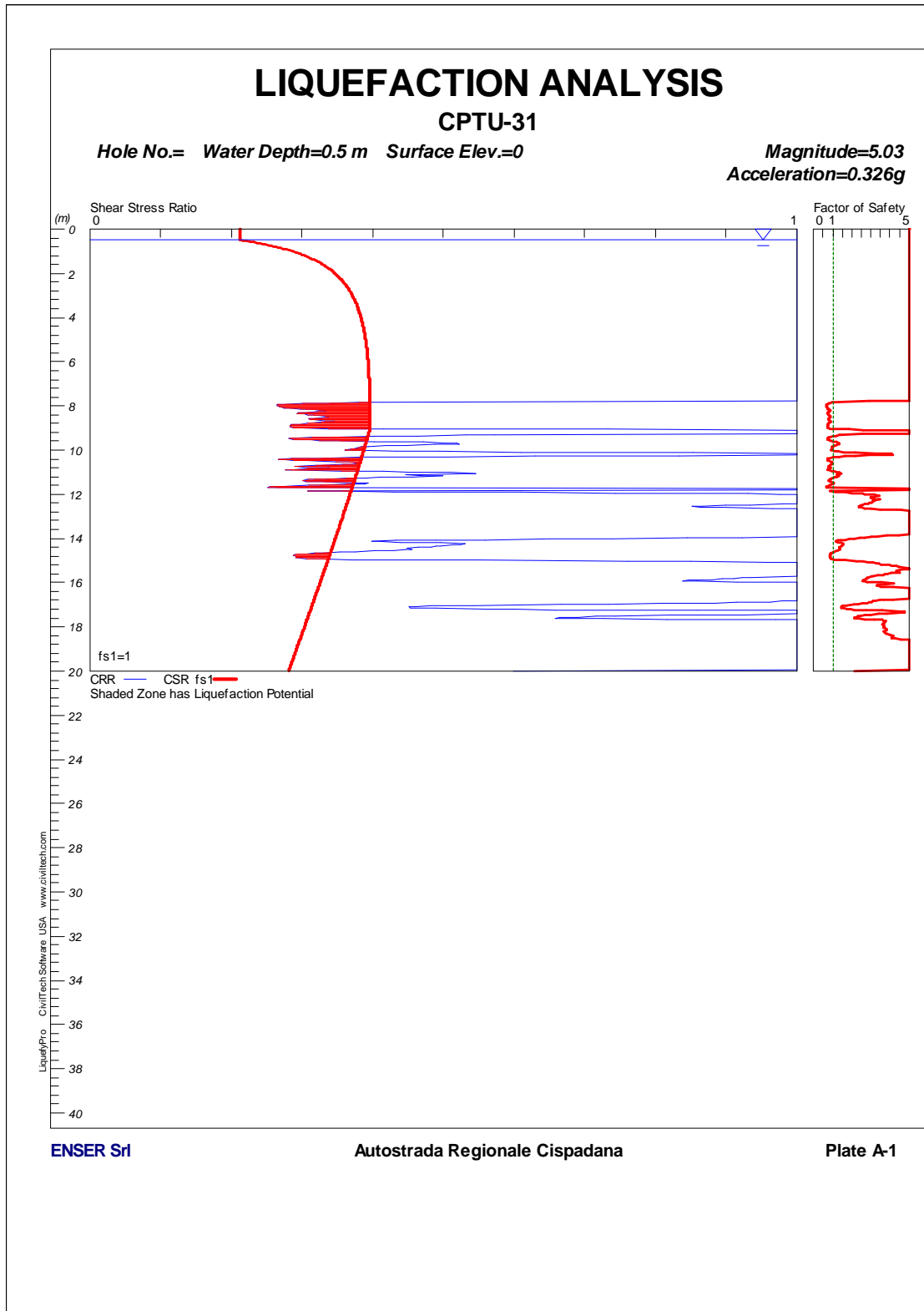


FIGURA 1-9: CPTU31 – VERIFICA A LIQUEFAZIONE.

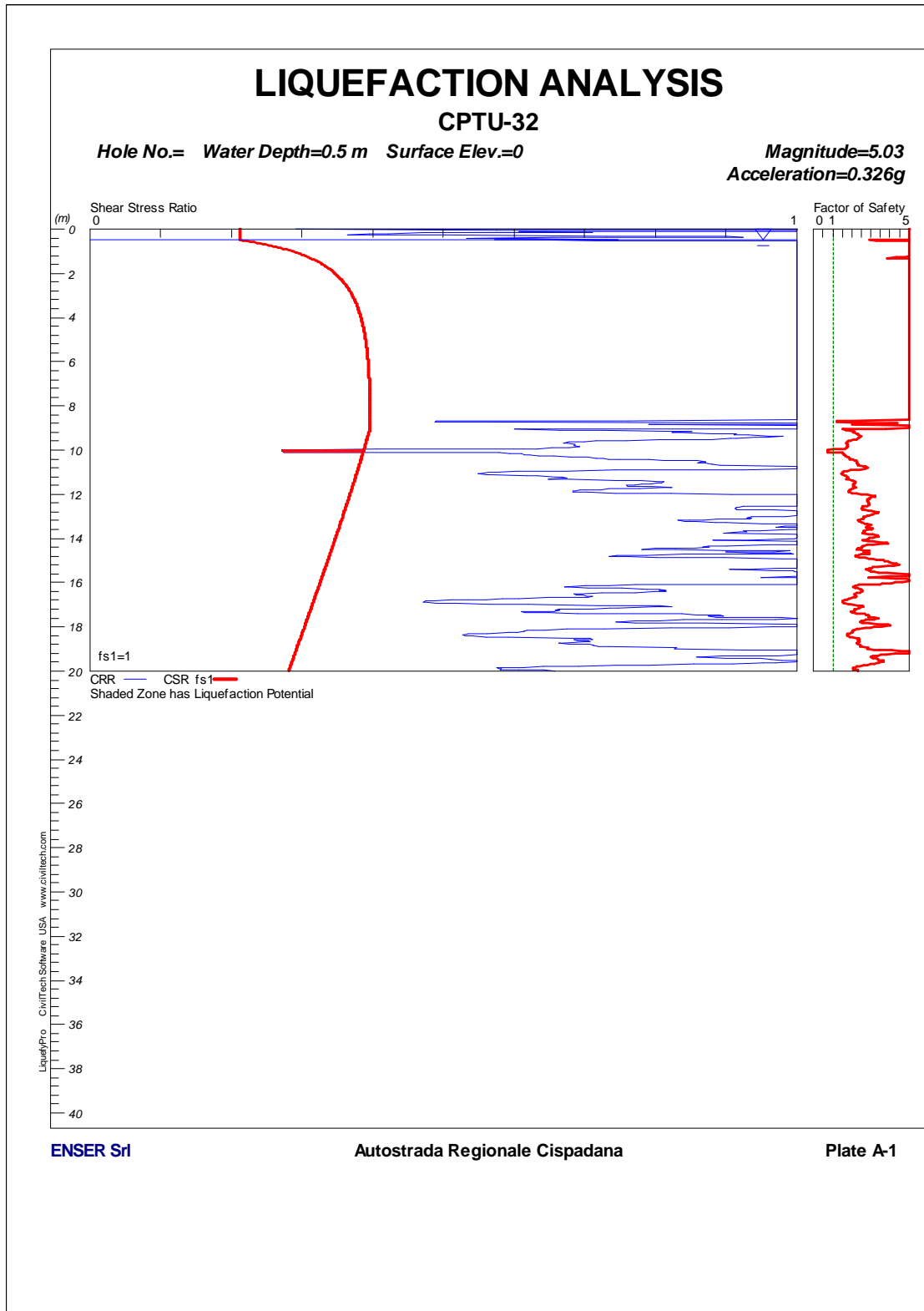


FIGURA 1-10: CPTU32 – VERIFICA A LIQUEFAZIONE.

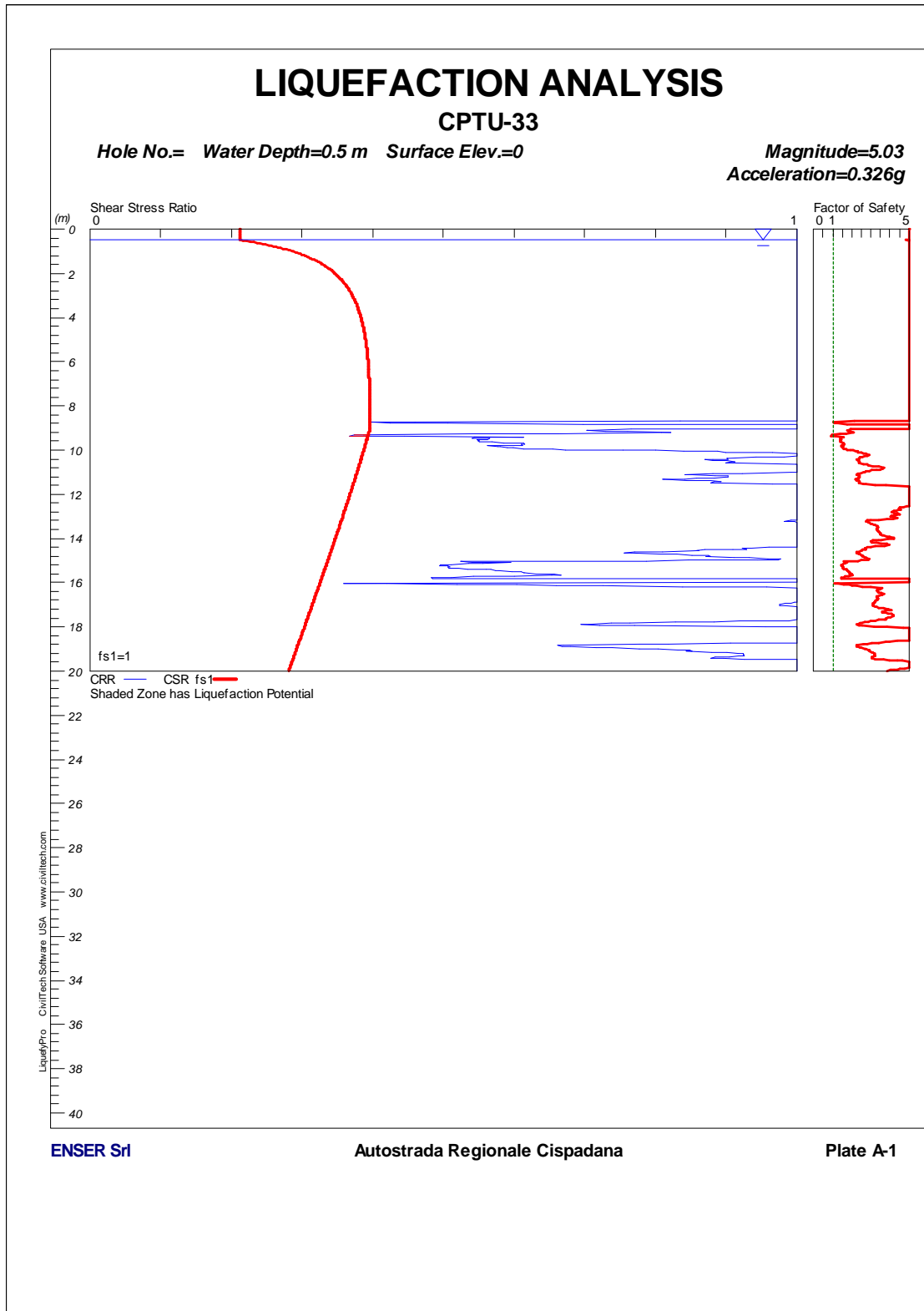


FIGURA 1-11: CPTU33 – VERIFICA A LIQUEFAZIONE.

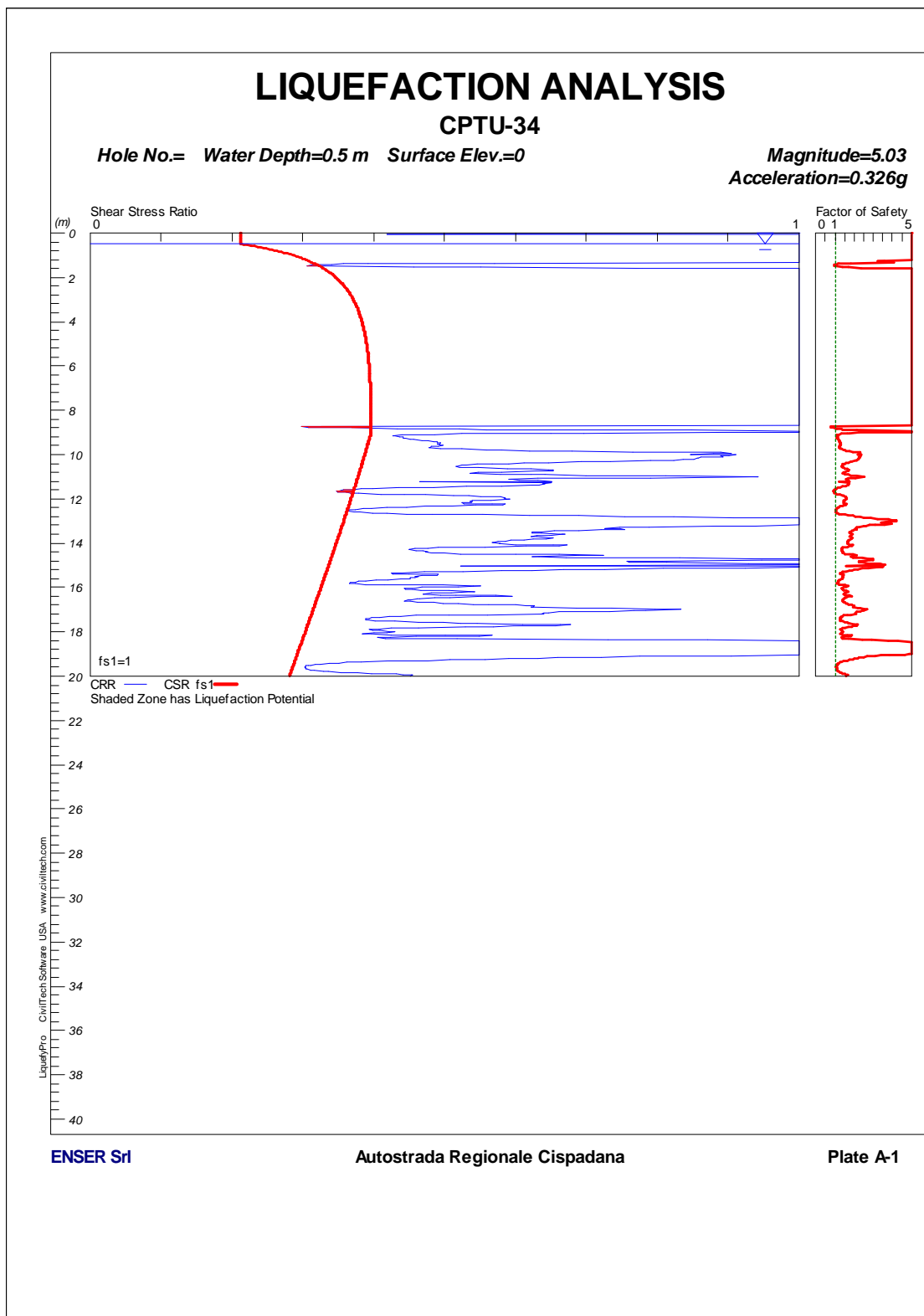


FIGURA 1-12: CPTU34 – VERIFICA A LIQUEFAZIONE.

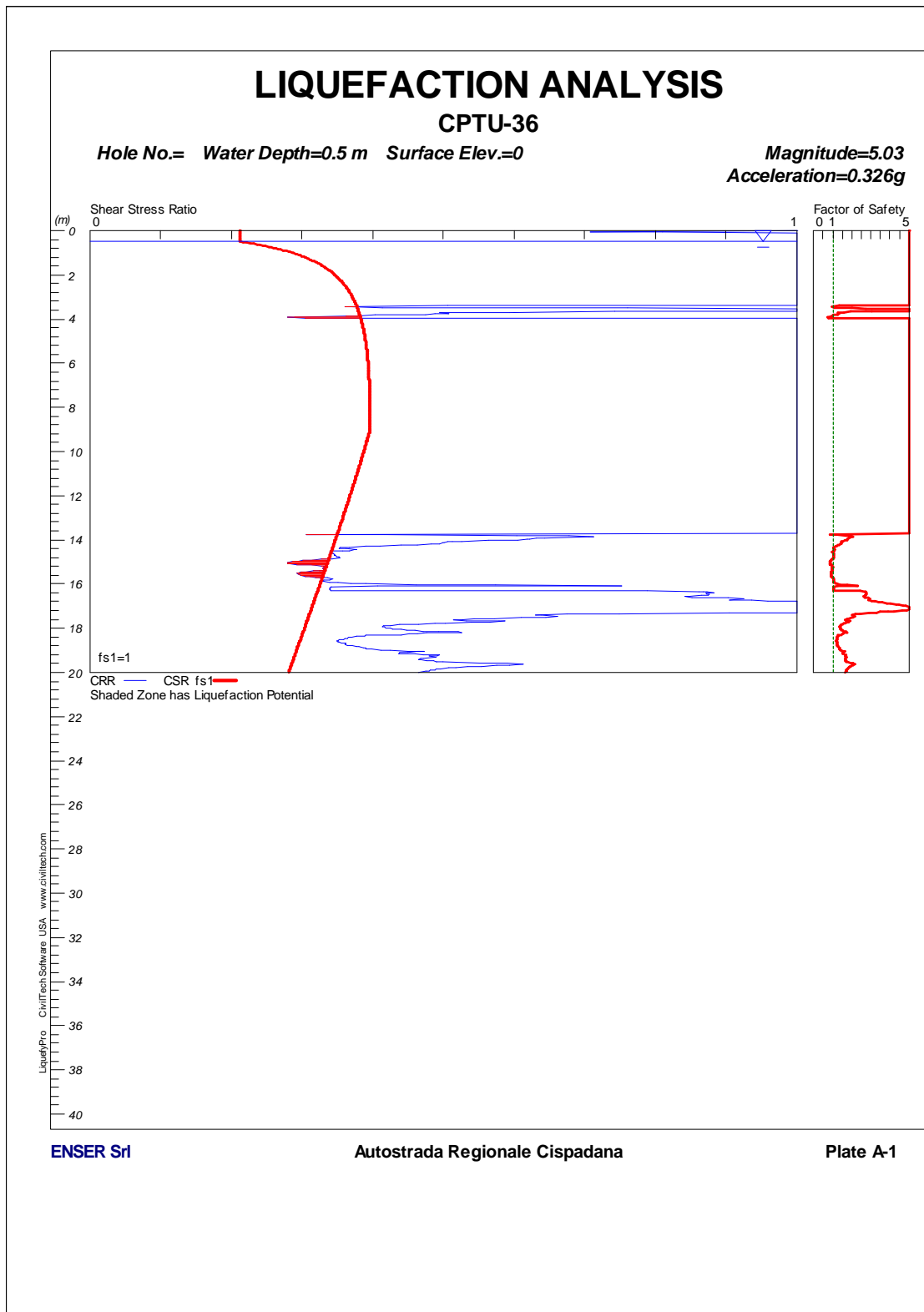


FIGURA 1-13: CPTU36 – VERIFICA A LIQUEFAZIONE.

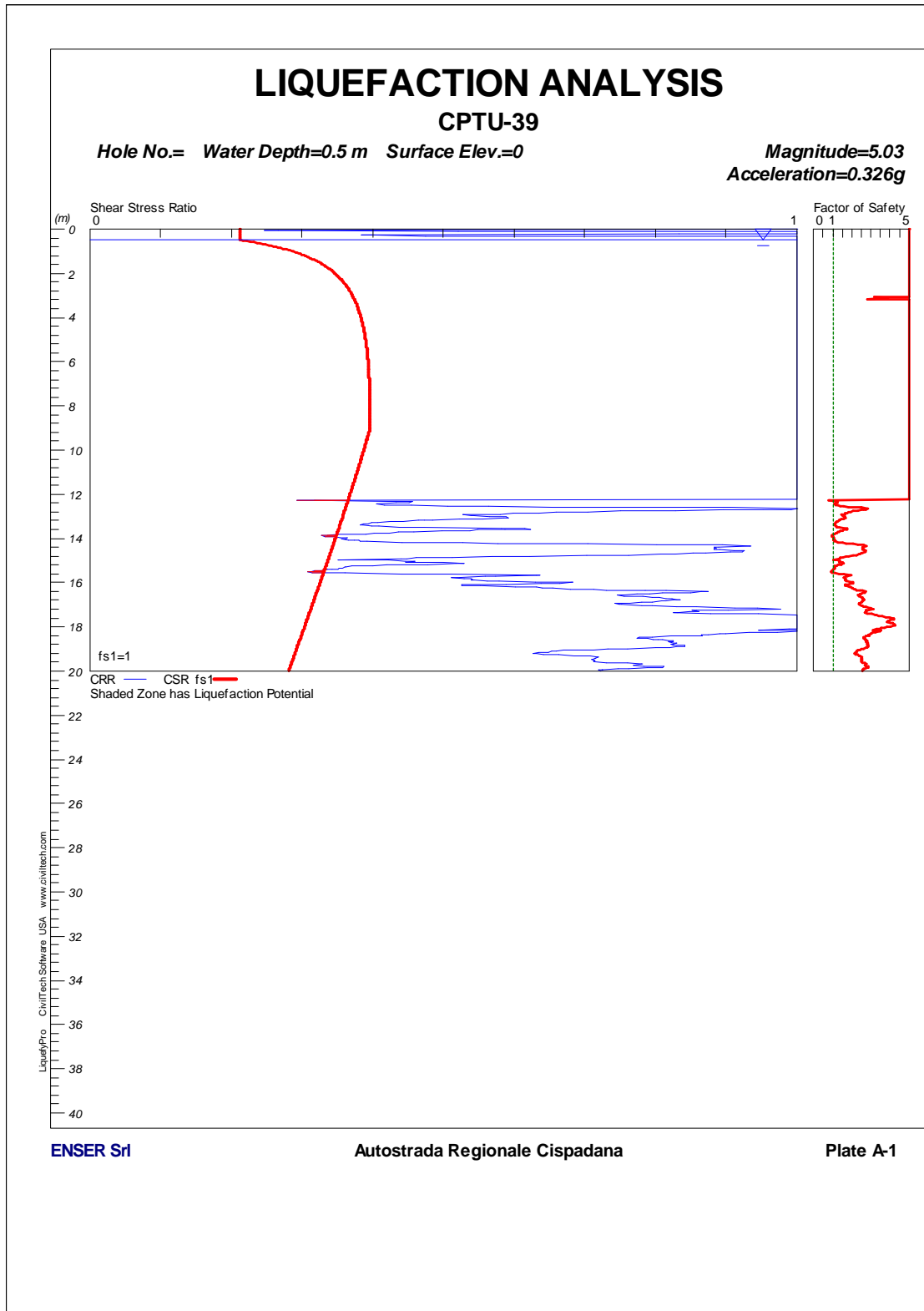


FIGURA 1-14: CPTU39 – VERIFICA A LIQUEFAZIONE.

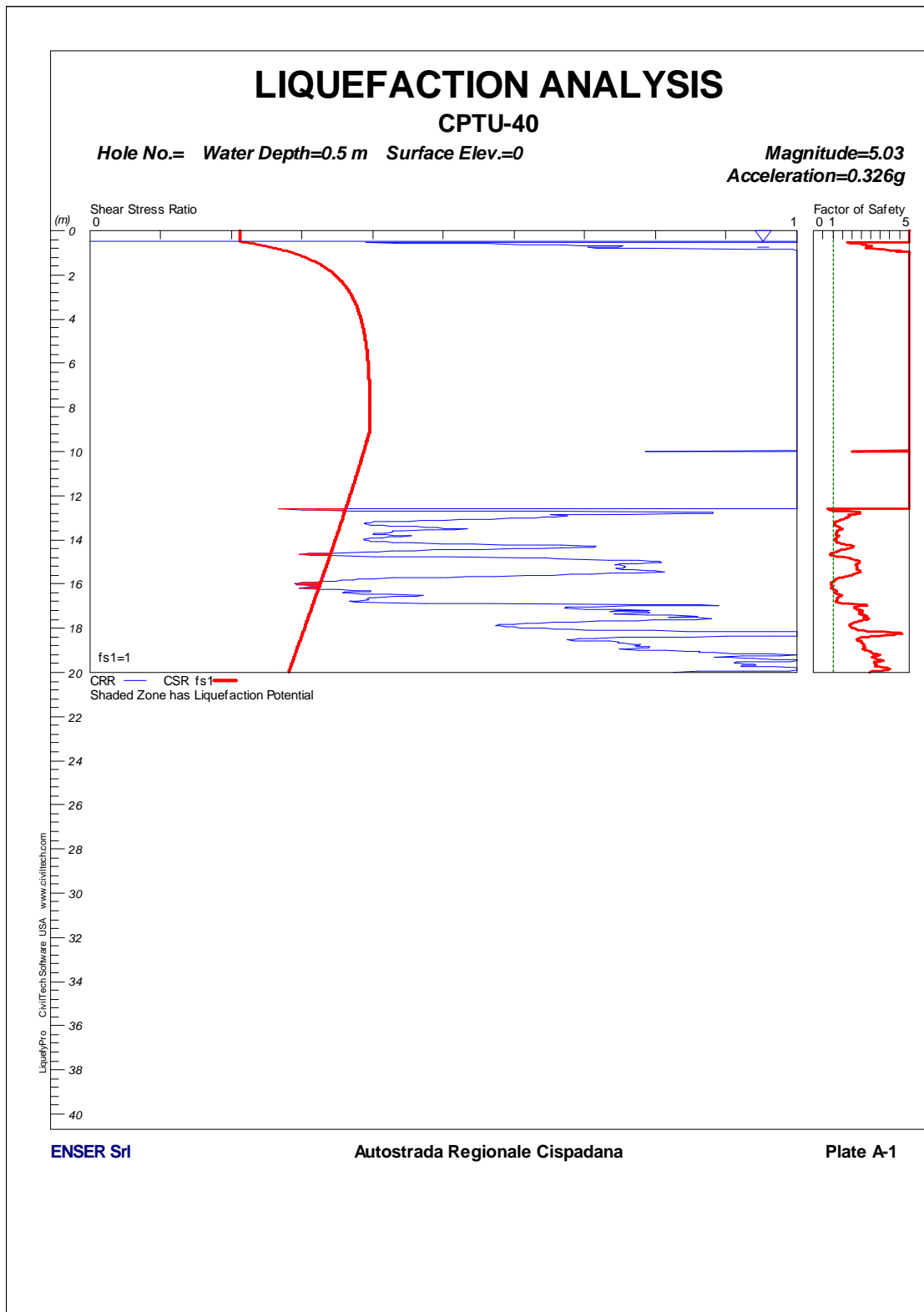


FIGURA 1-15: CPTU40 – VERIFICA A LIQUEFAZIONE.

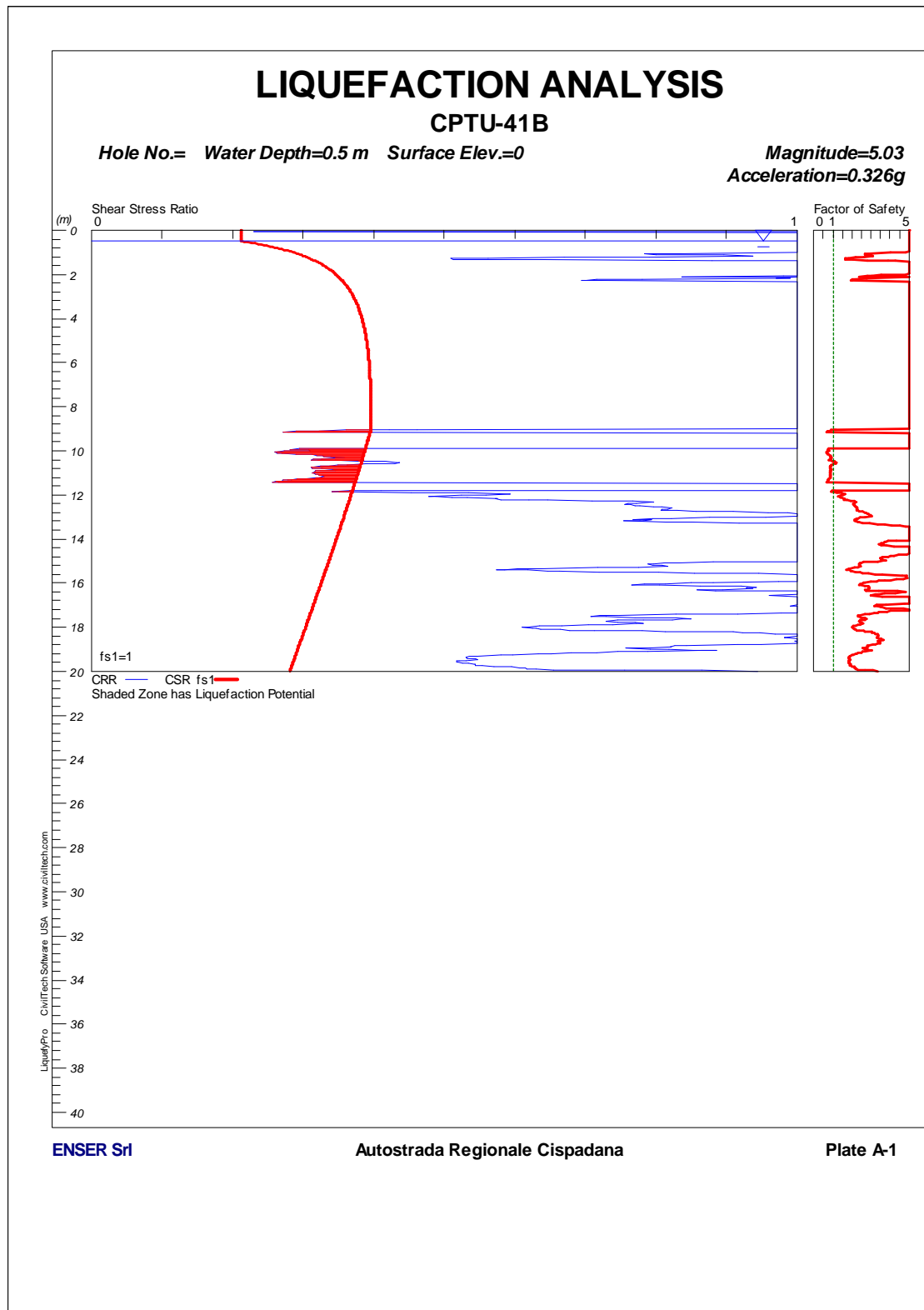


FIGURA 1-16: CPTU41 – VERIFICA A LIQUEFAZIONE.

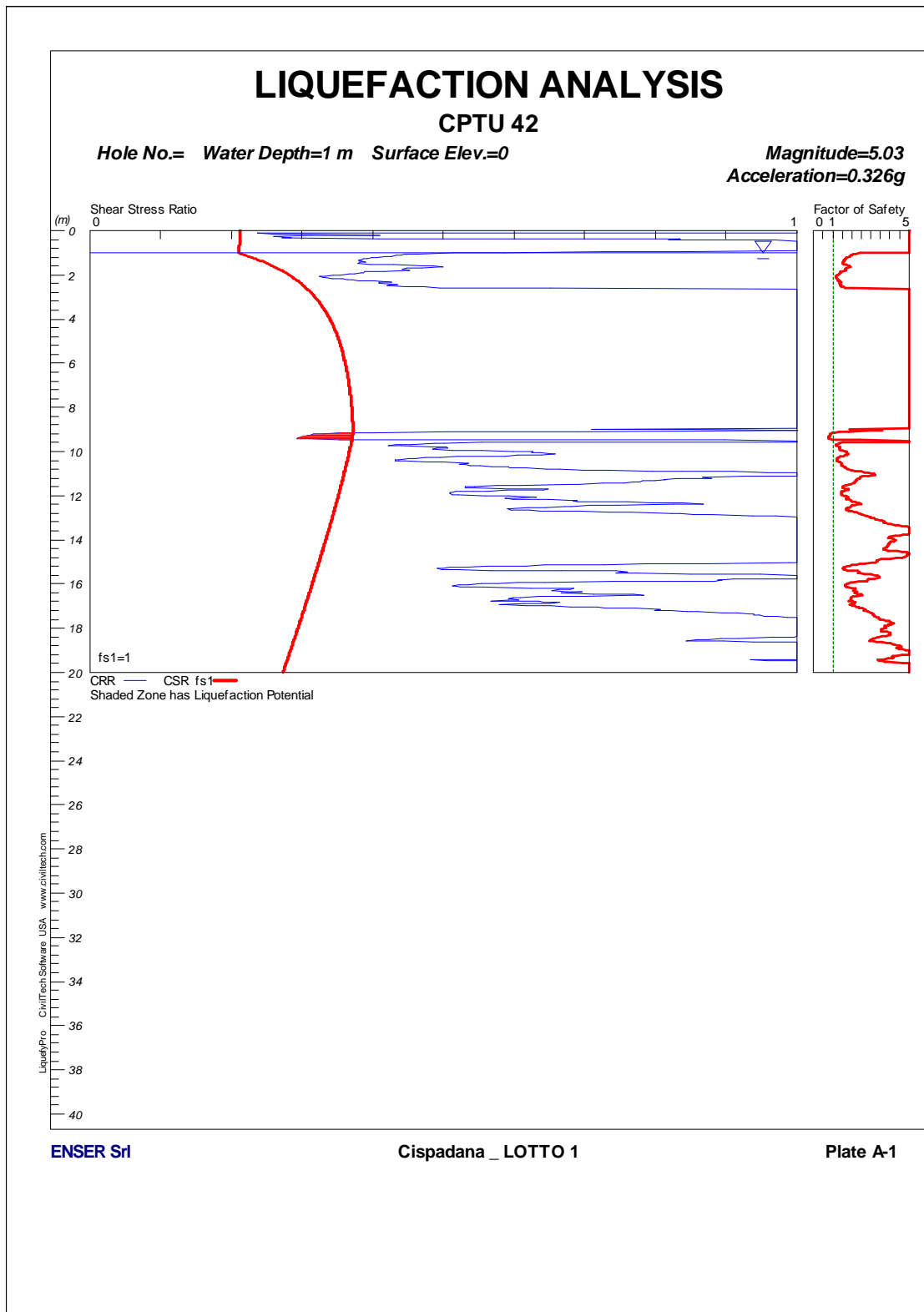


FIGURA 1-17: CPTU42 – VERIFICA A LIQUEFAZIONE.

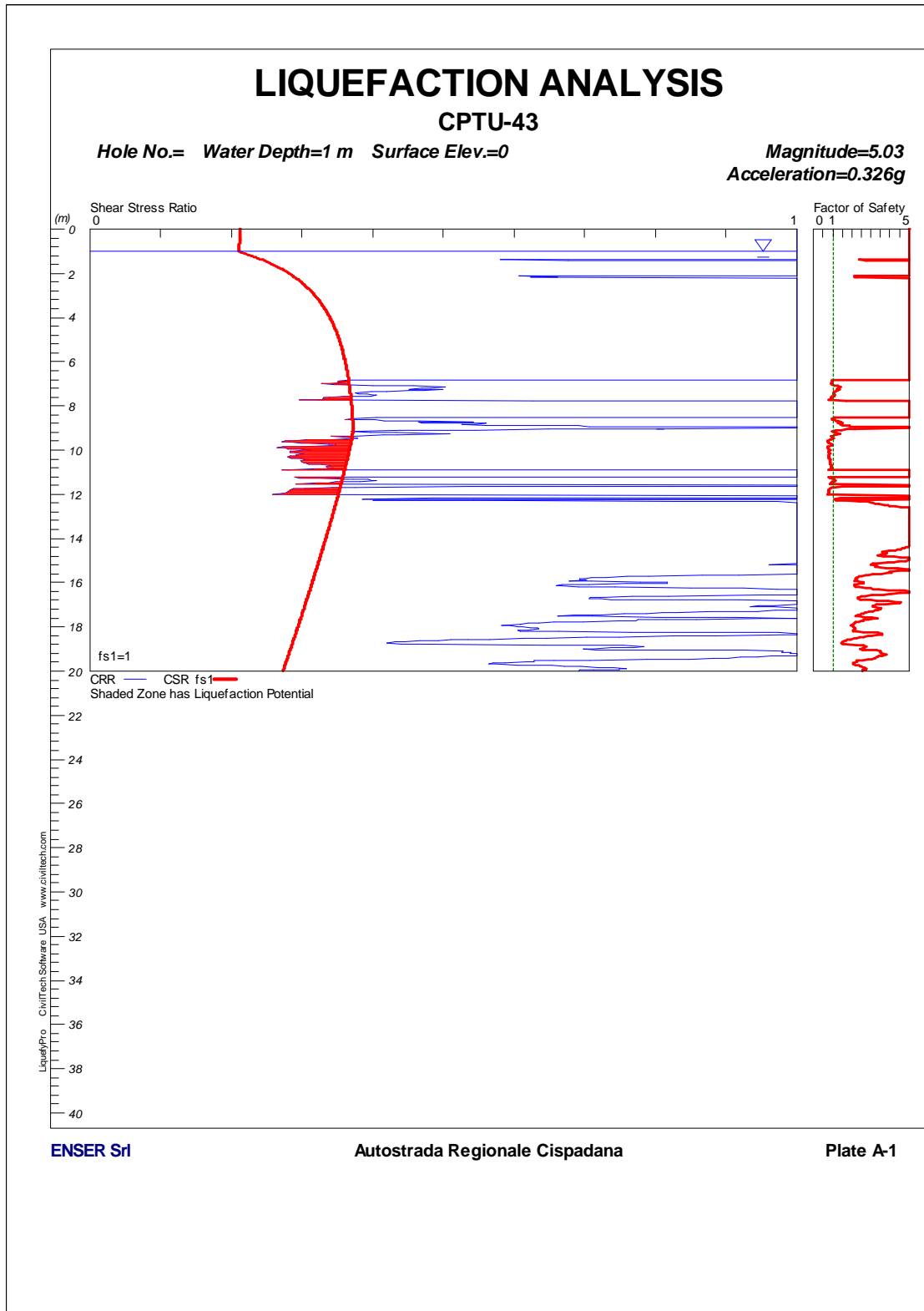


FIGURA 1-18: CPTU43 – VERIFICA A LIQUEFAZIONE.

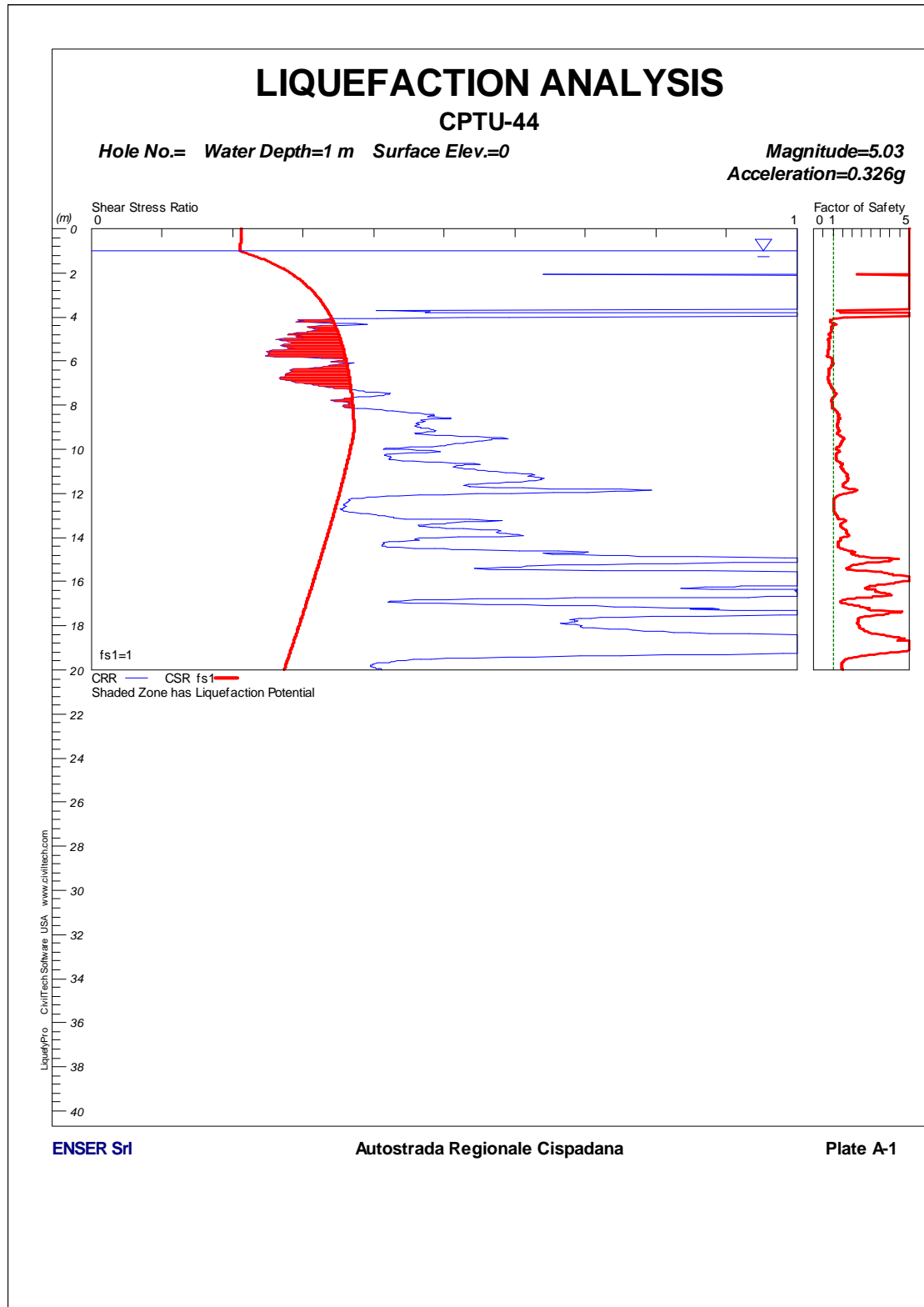


FIGURA 1-19: CPTU44 – VERIFICA A LIQUEFAZIONE.

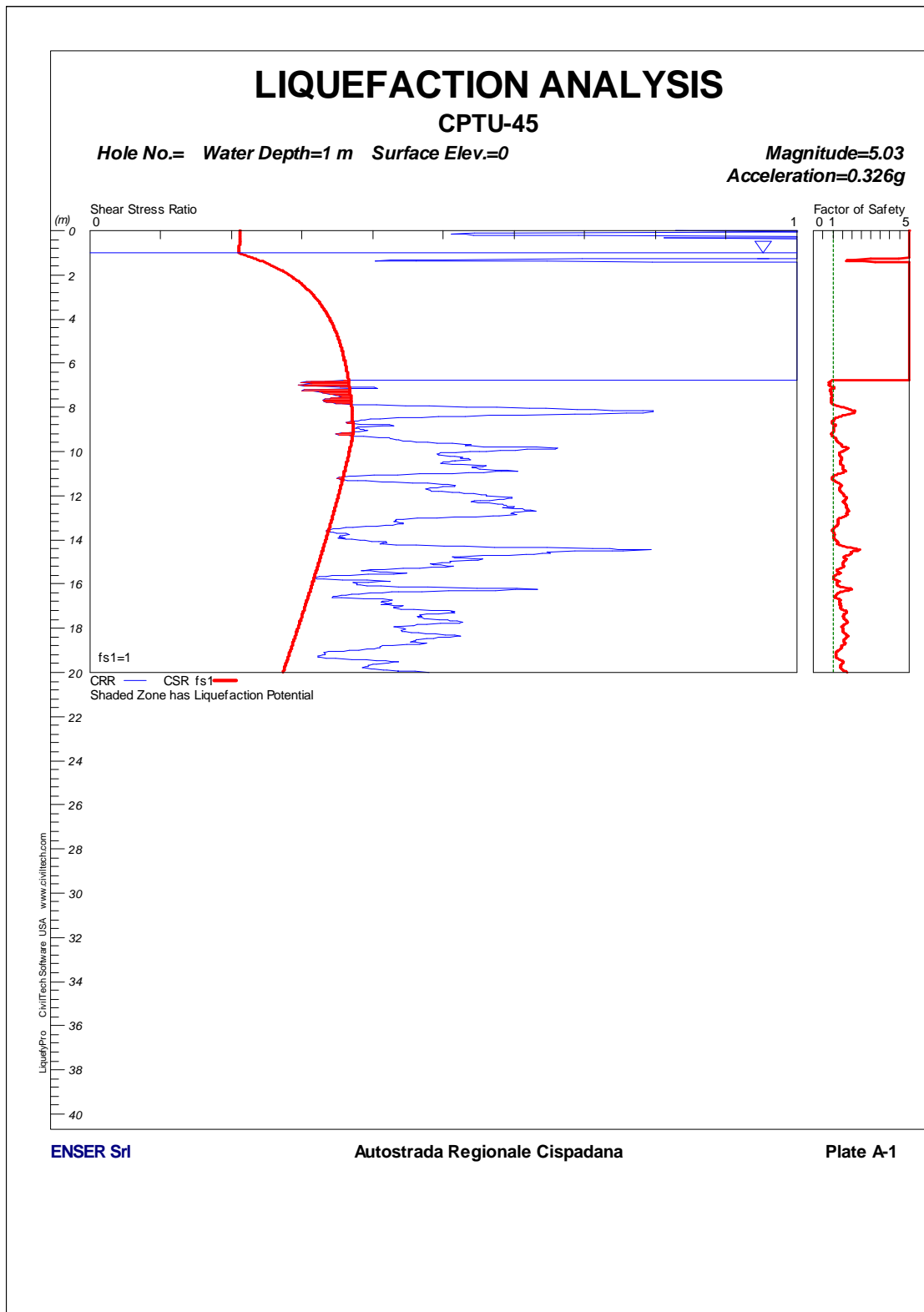


FIGURA 1-20: CPTU45 – VERIFICA A LIQUEFAZIONE.

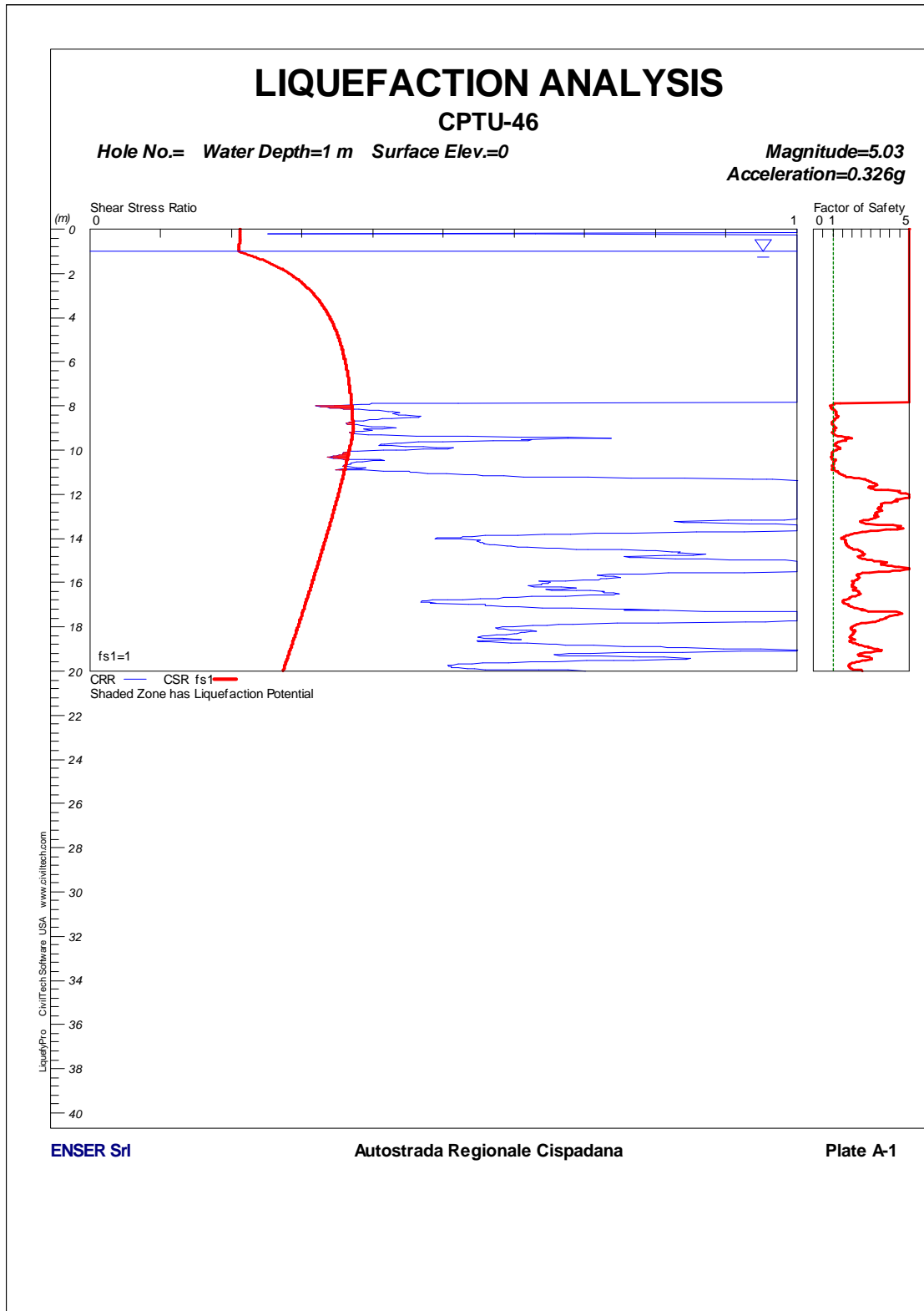


FIGURA 1-21: CPTU46 – VERIFICA A LIQUEFAZIONE.

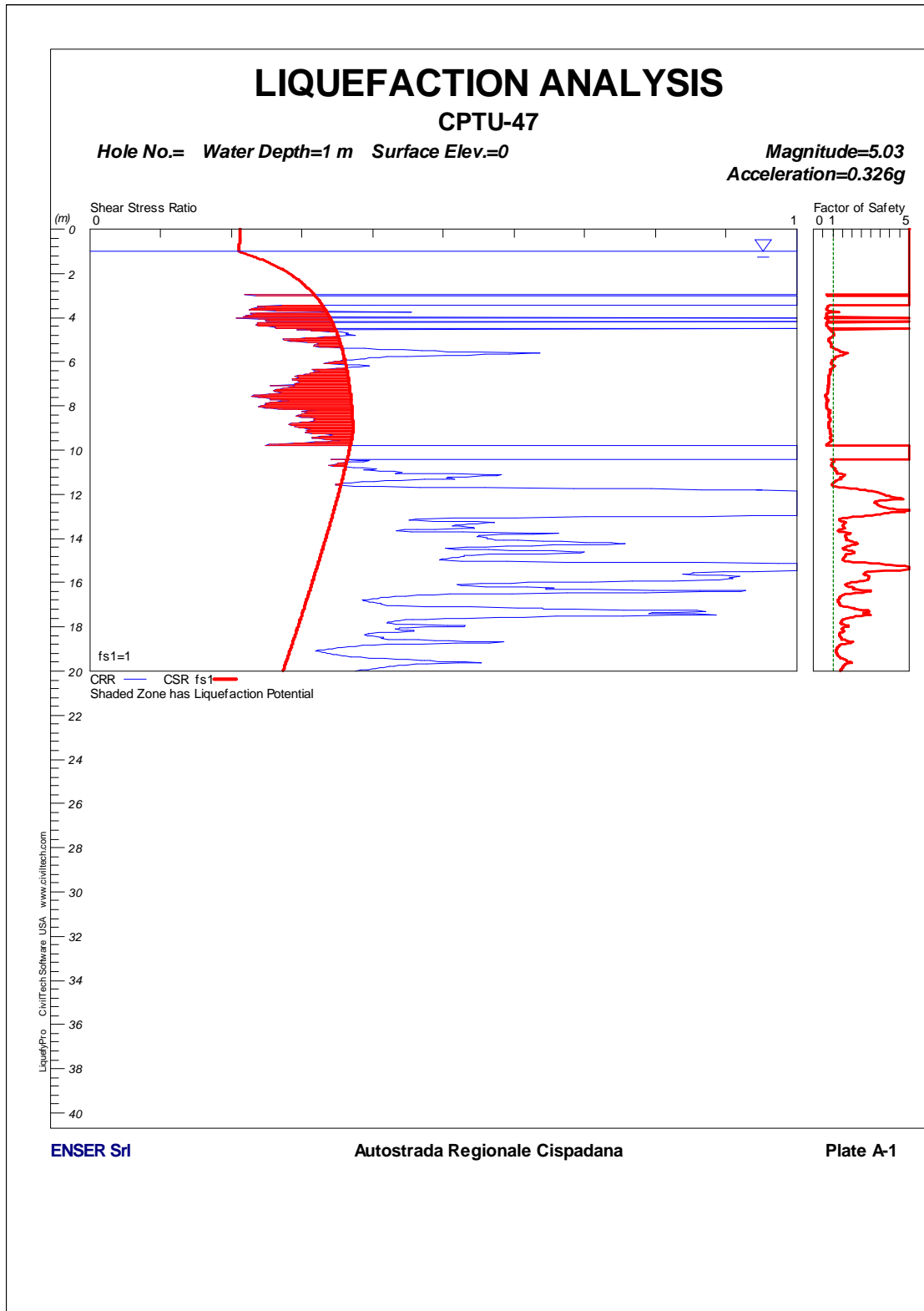


FIGURA 1-22: CPTU47 – VERIFICA A LIQUEFAZIONE.

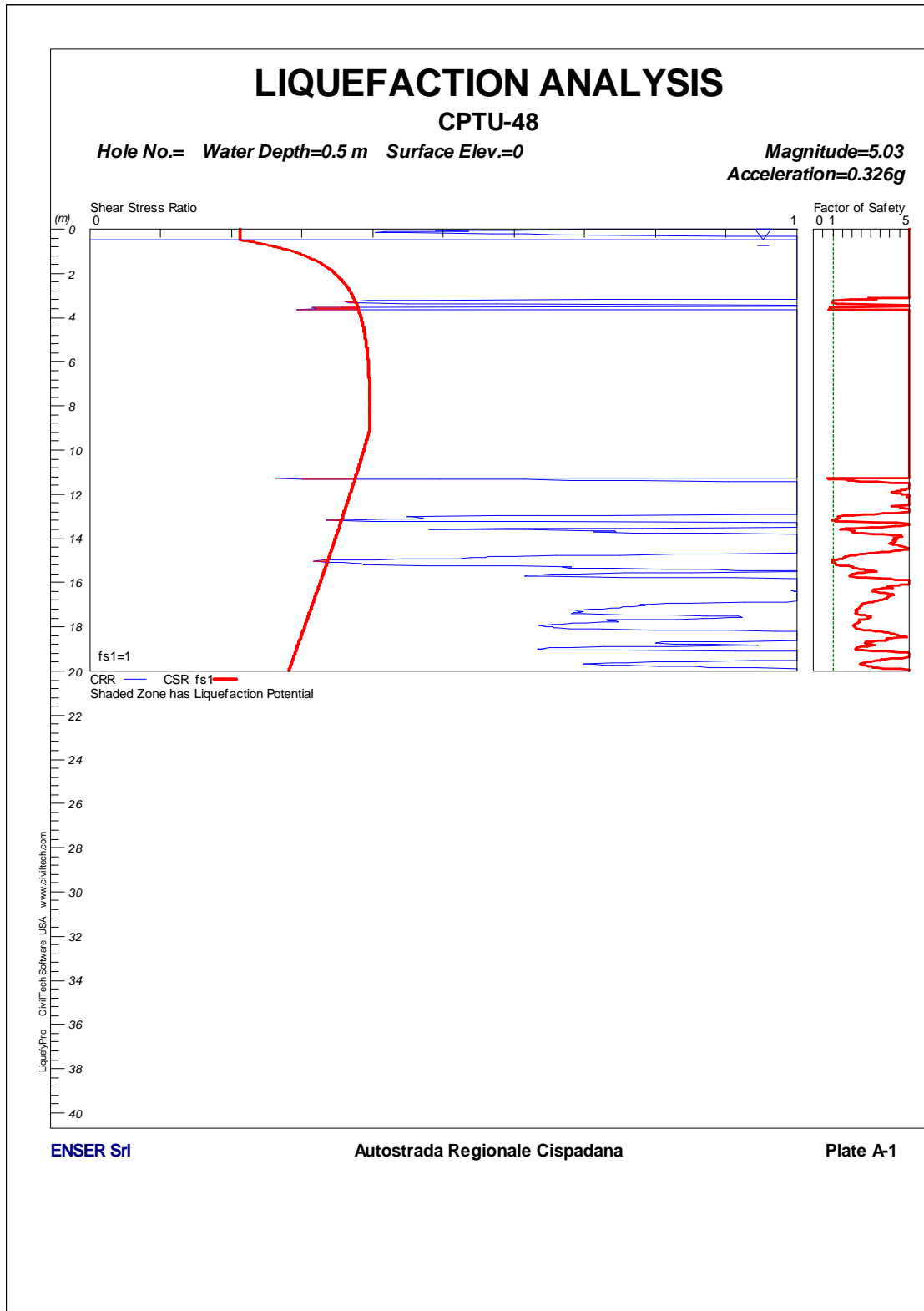


FIGURA 1-23: CPTU48 – VERIFICA A LIQUEFAZIONE.

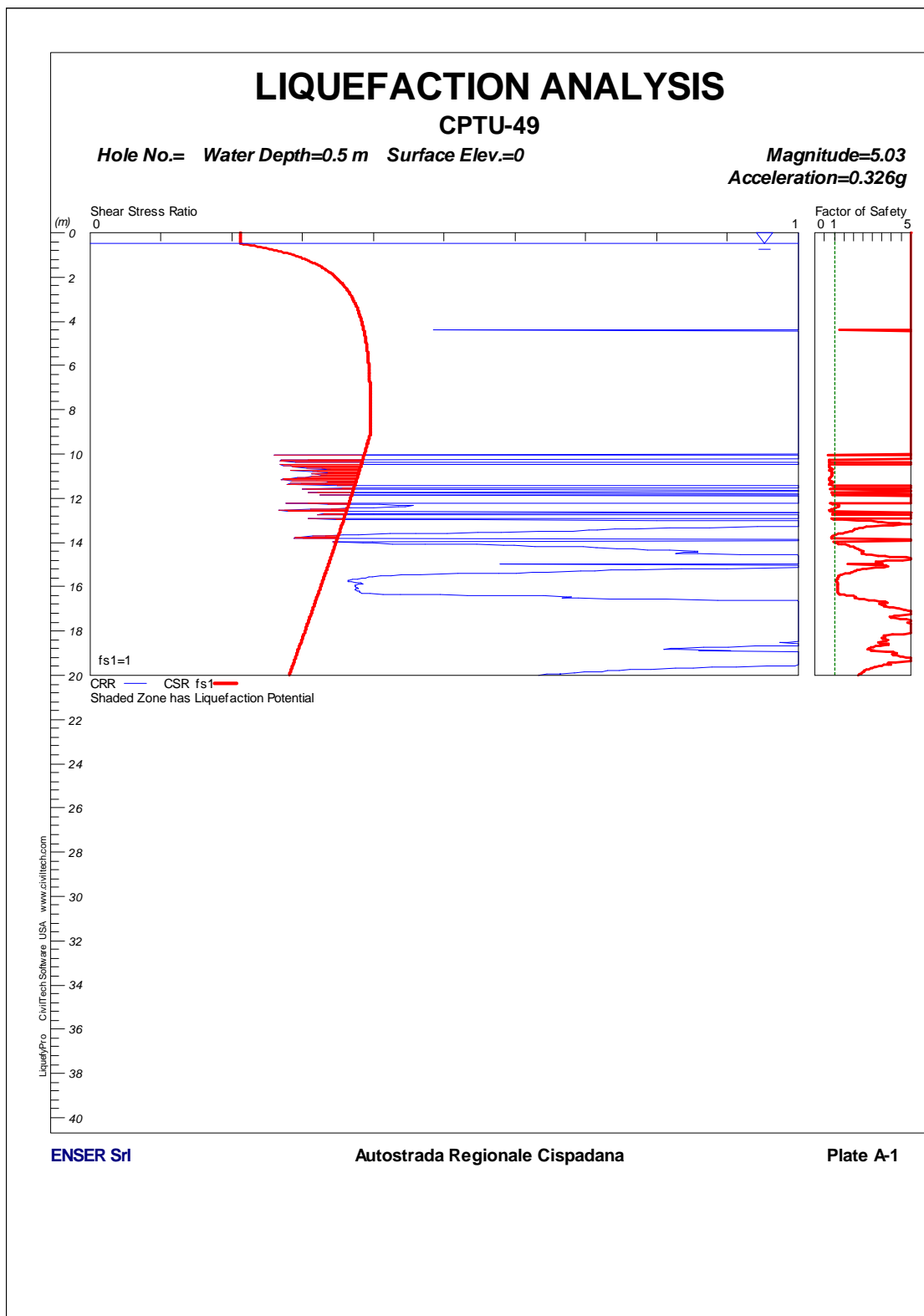


FIGURA 1-24: CPTU49 – VERIFICA A LIQUEFAZIONE.

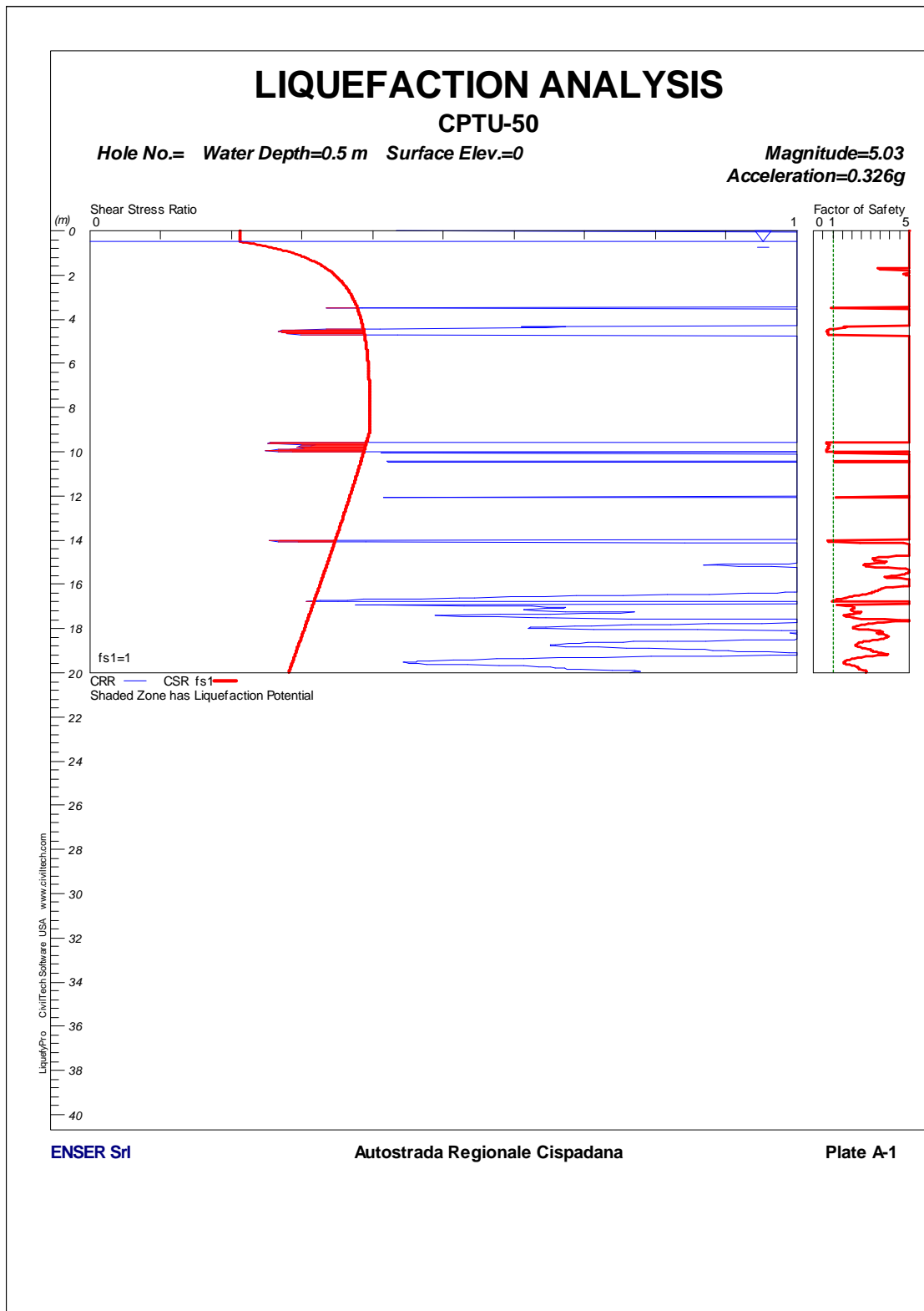


FIGURA 1-25: CPTU50 – VERIFICA A LIQUEFAZIONE.

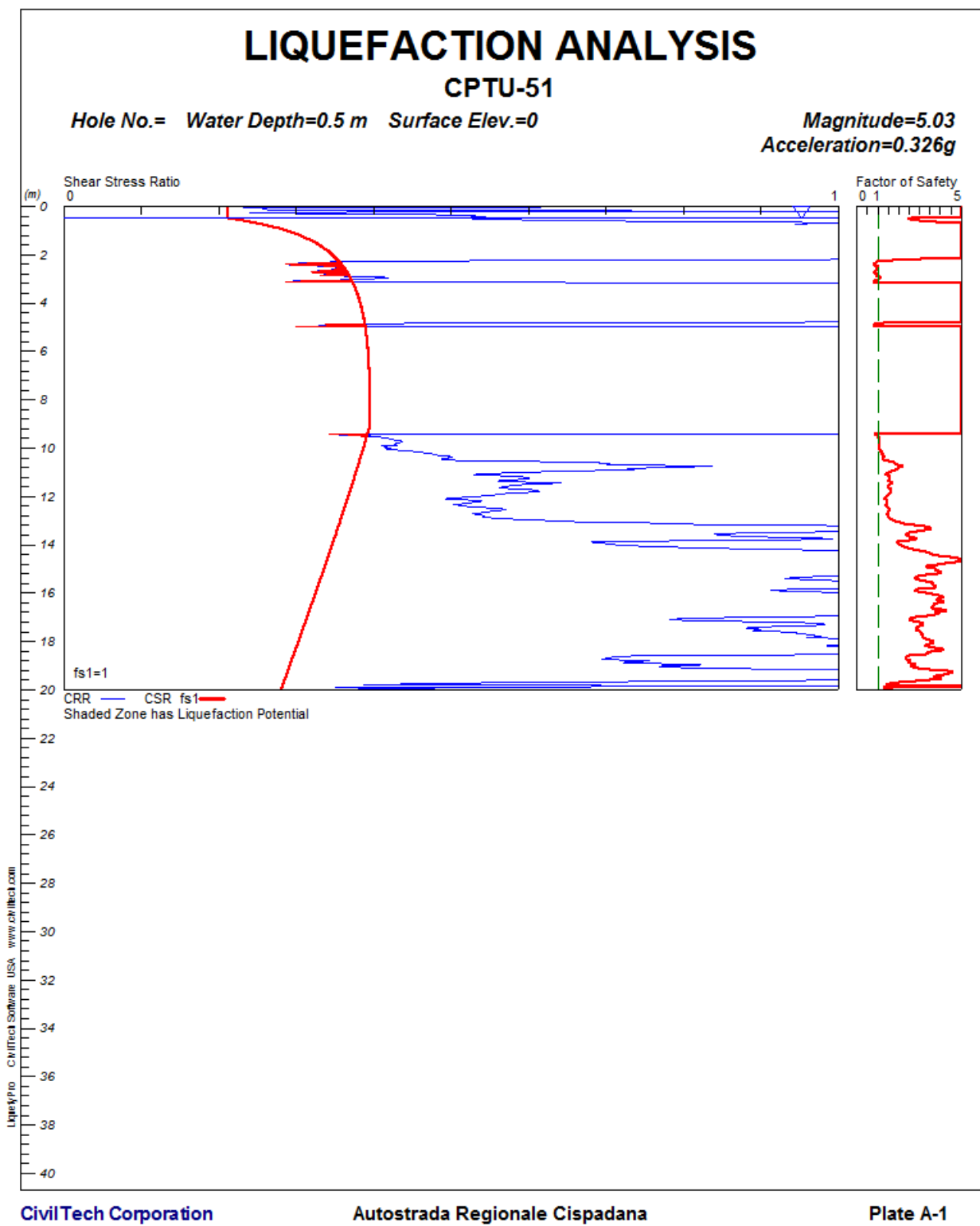


FIGURA 1-26: CPTU51 – VERIFICA A LIQUEFAZIONE.

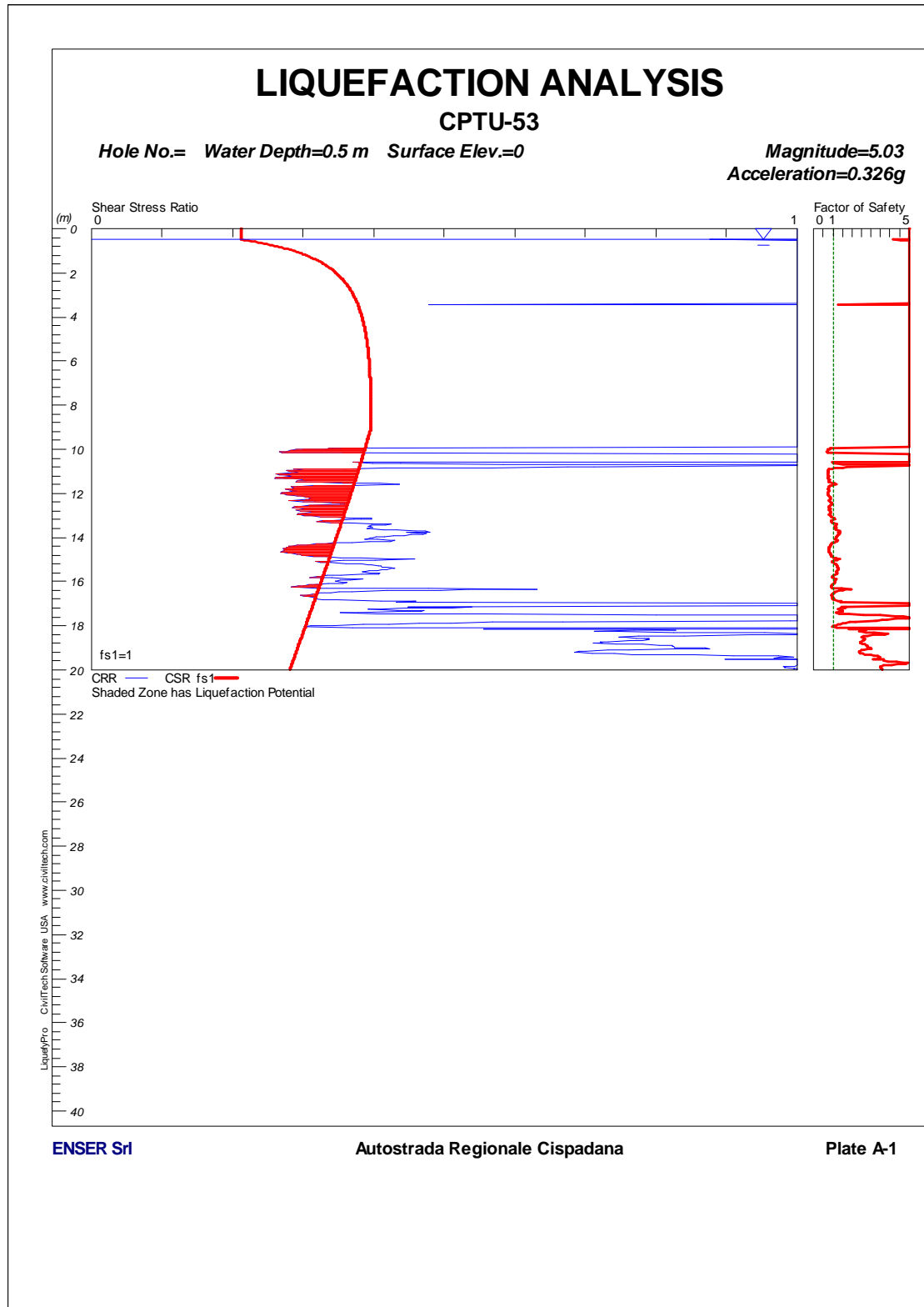


FIGURA 1-28: CPTU53 – VERIFICA A LIQUEFAZIONE.

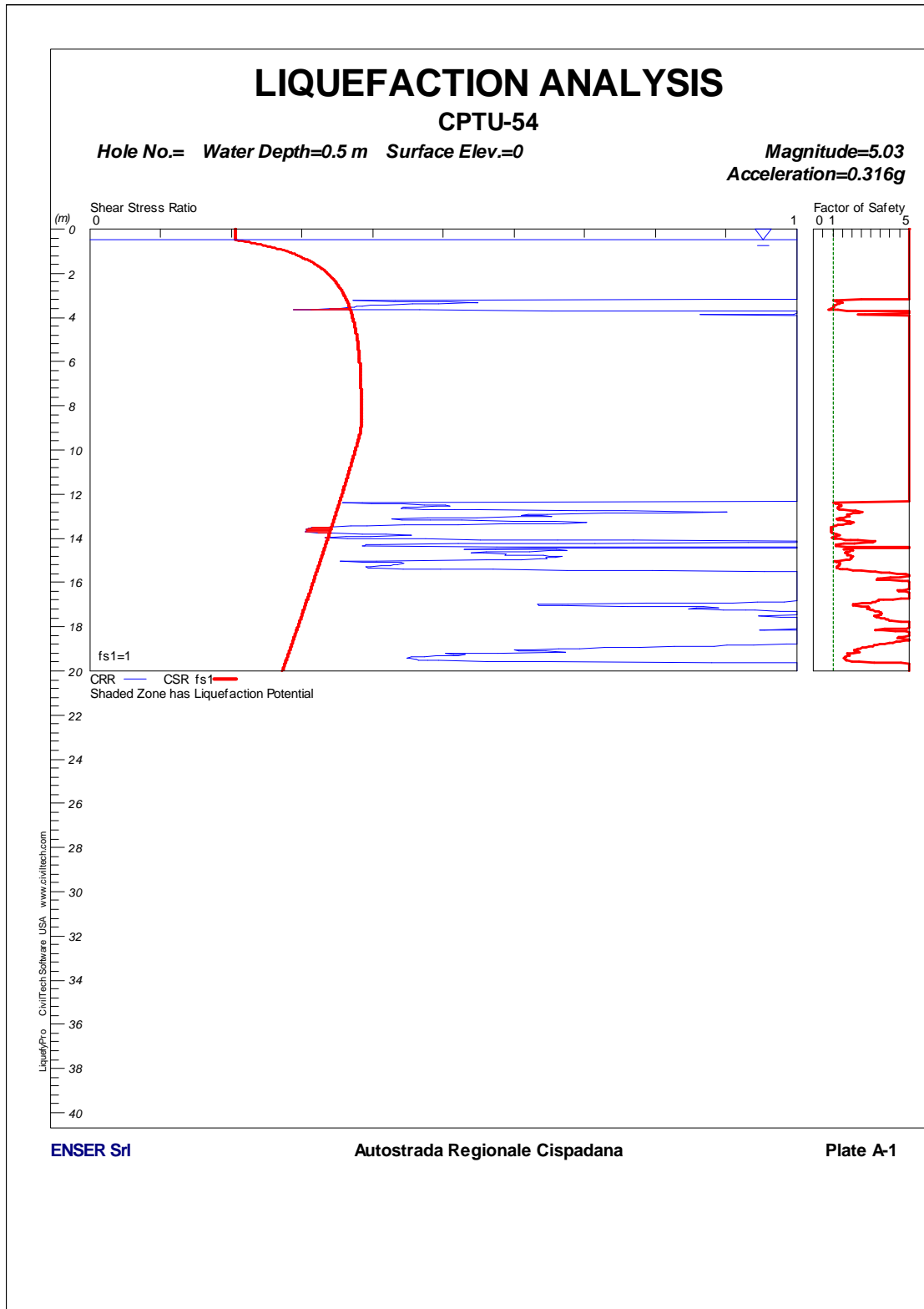


FIGURA 1-29: CPTU54 – VERIFICA A LIQUEFAZIONE.

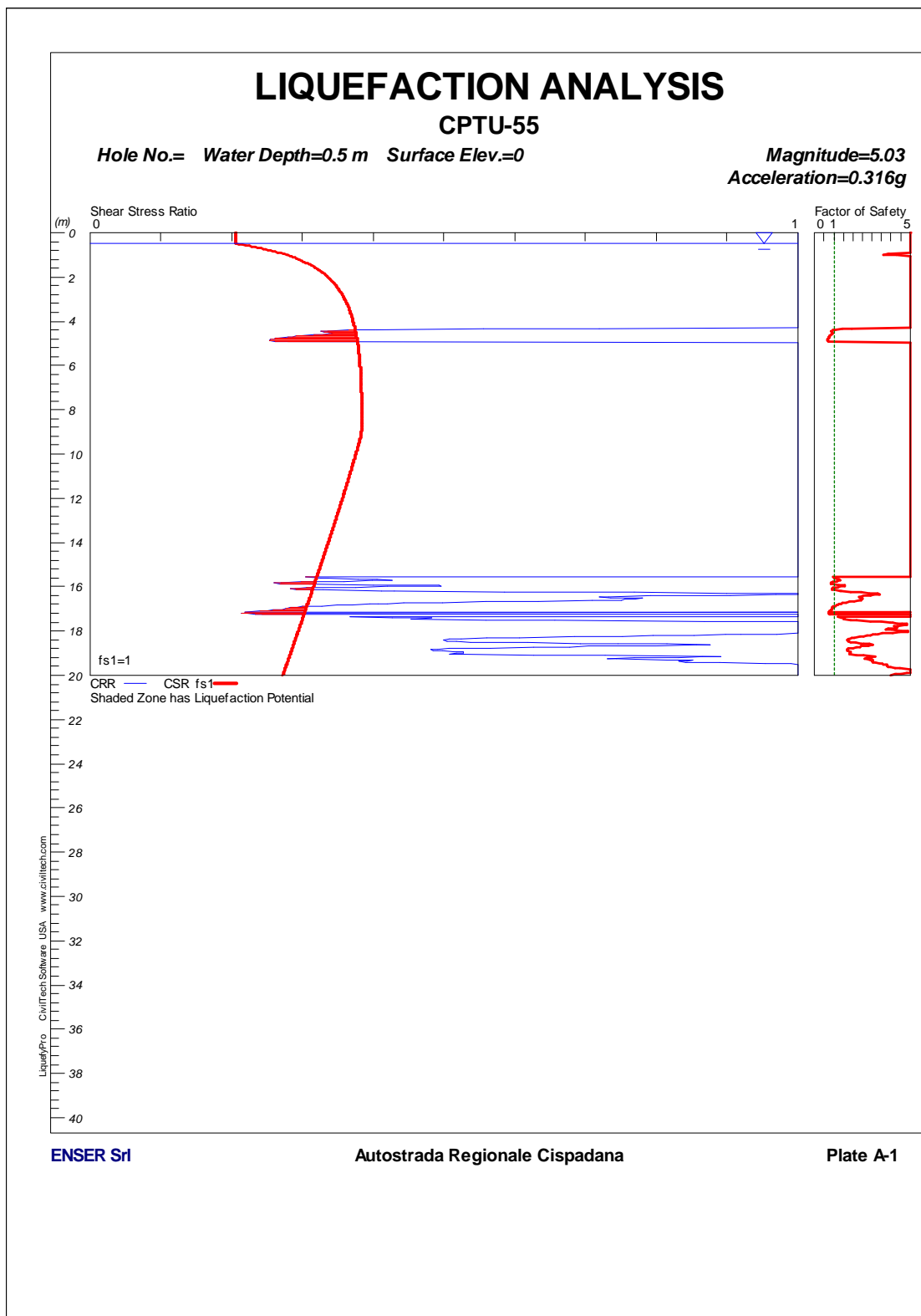
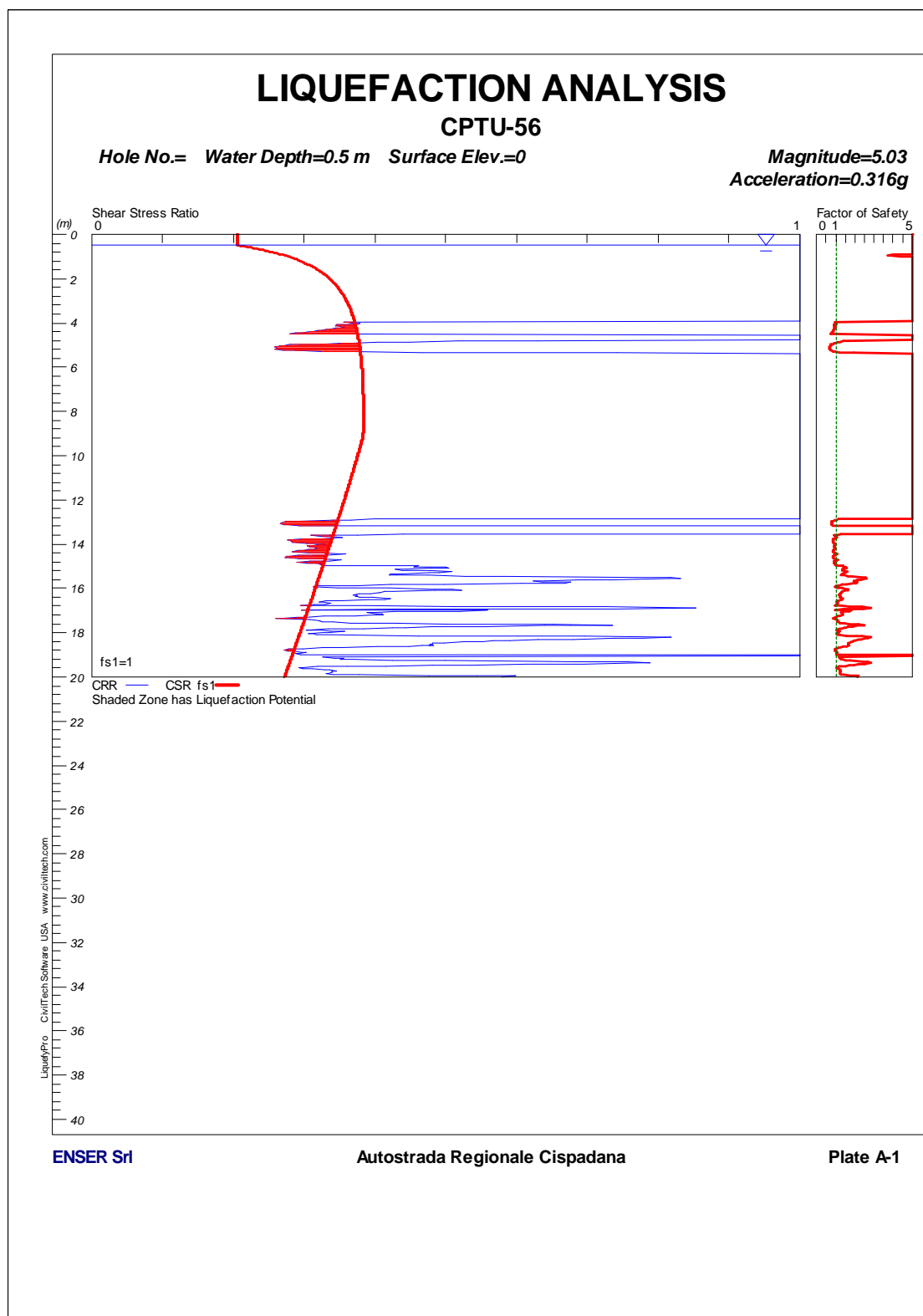


FIGURA 1-30: CPTU55 – VERIFICA A LIQUEFAZIONE.



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FIGURA 1-31: CPTU56 – VERIFICA A LIQUEFAZIONE.

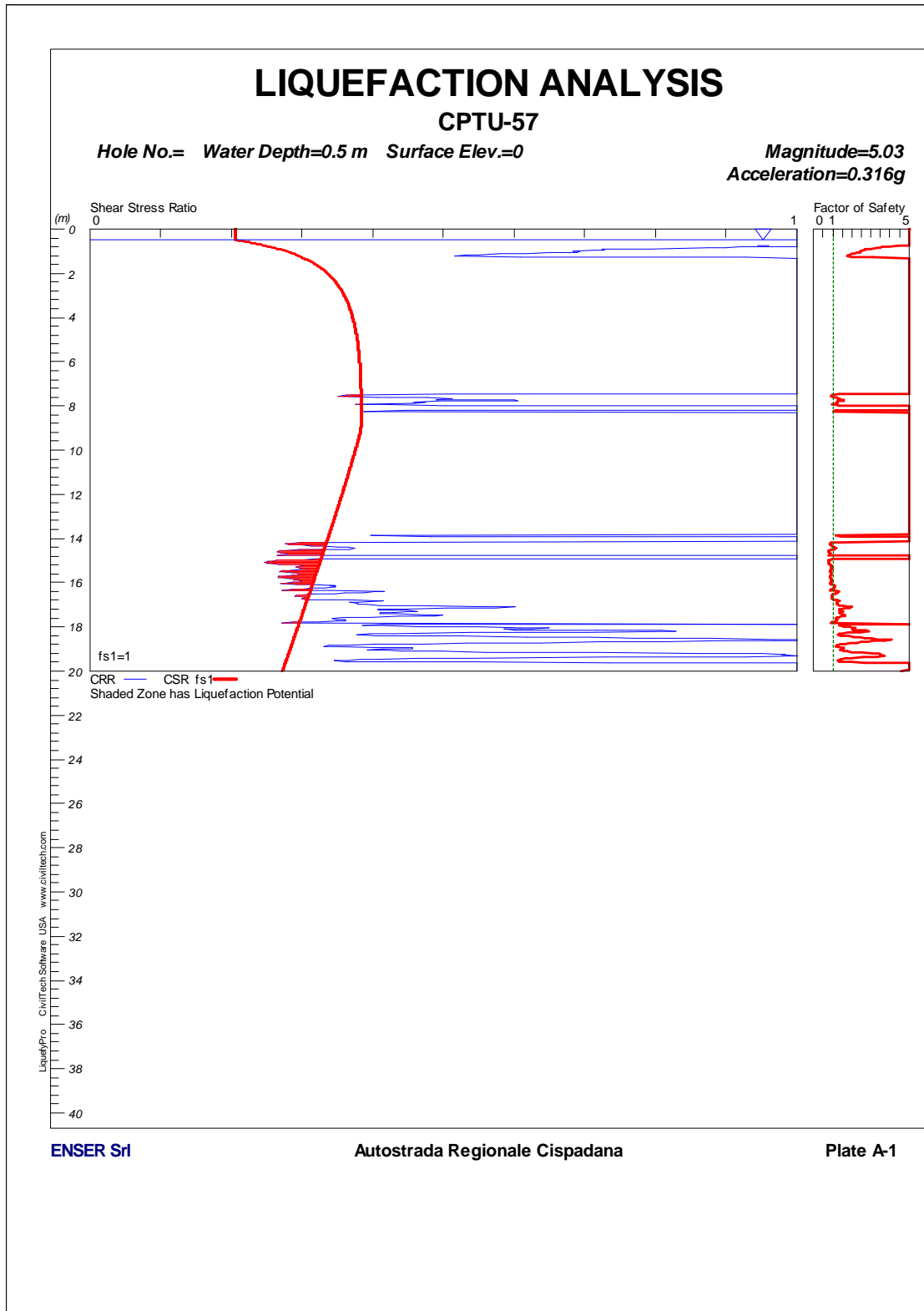


FIGURA 1-32: CPTU57 – VERIFICA A LIQUEFAZIONE.

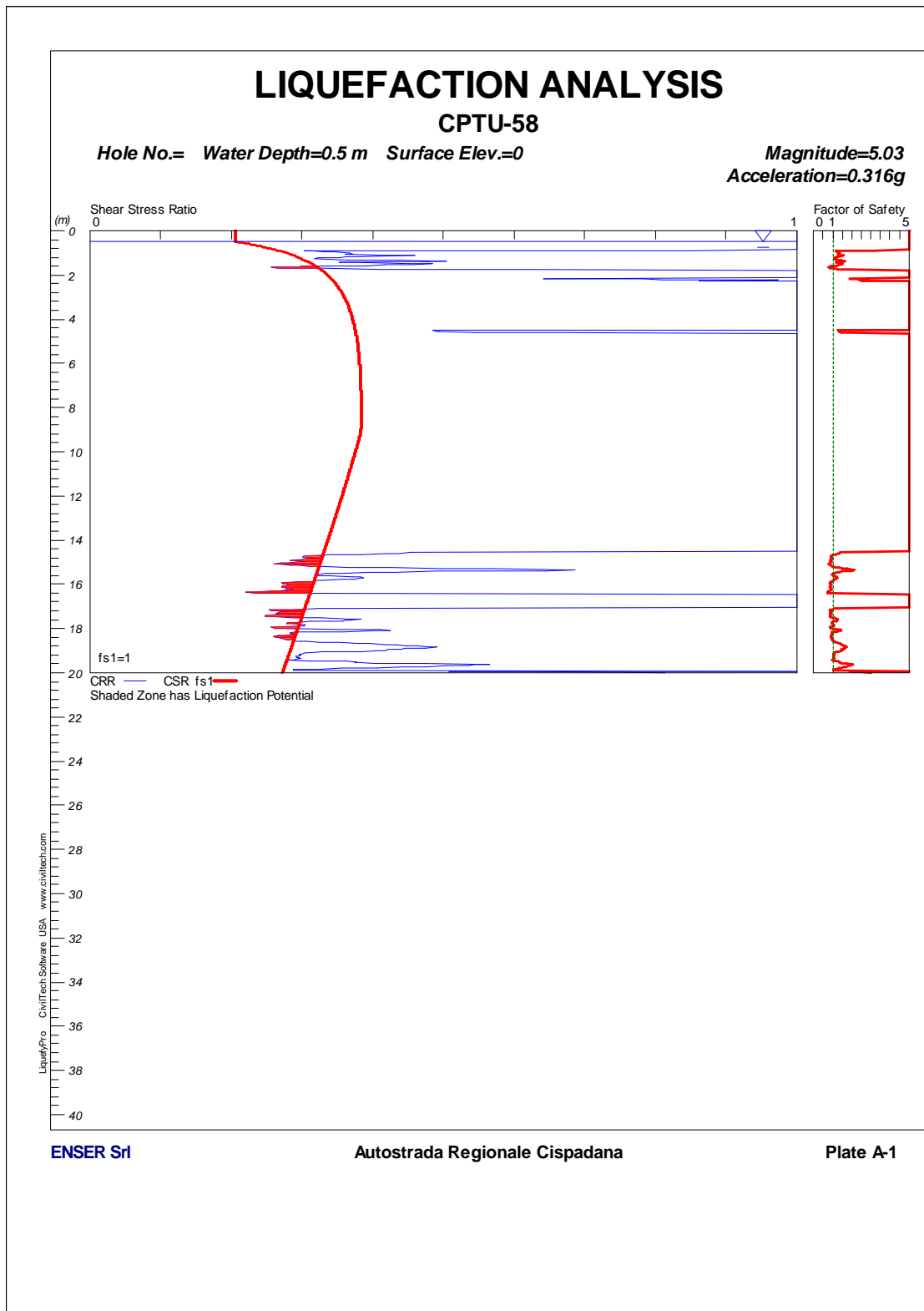


FIGURA 1-33: CPTU58 – VERIFICA A LIQUEFAZIONE.

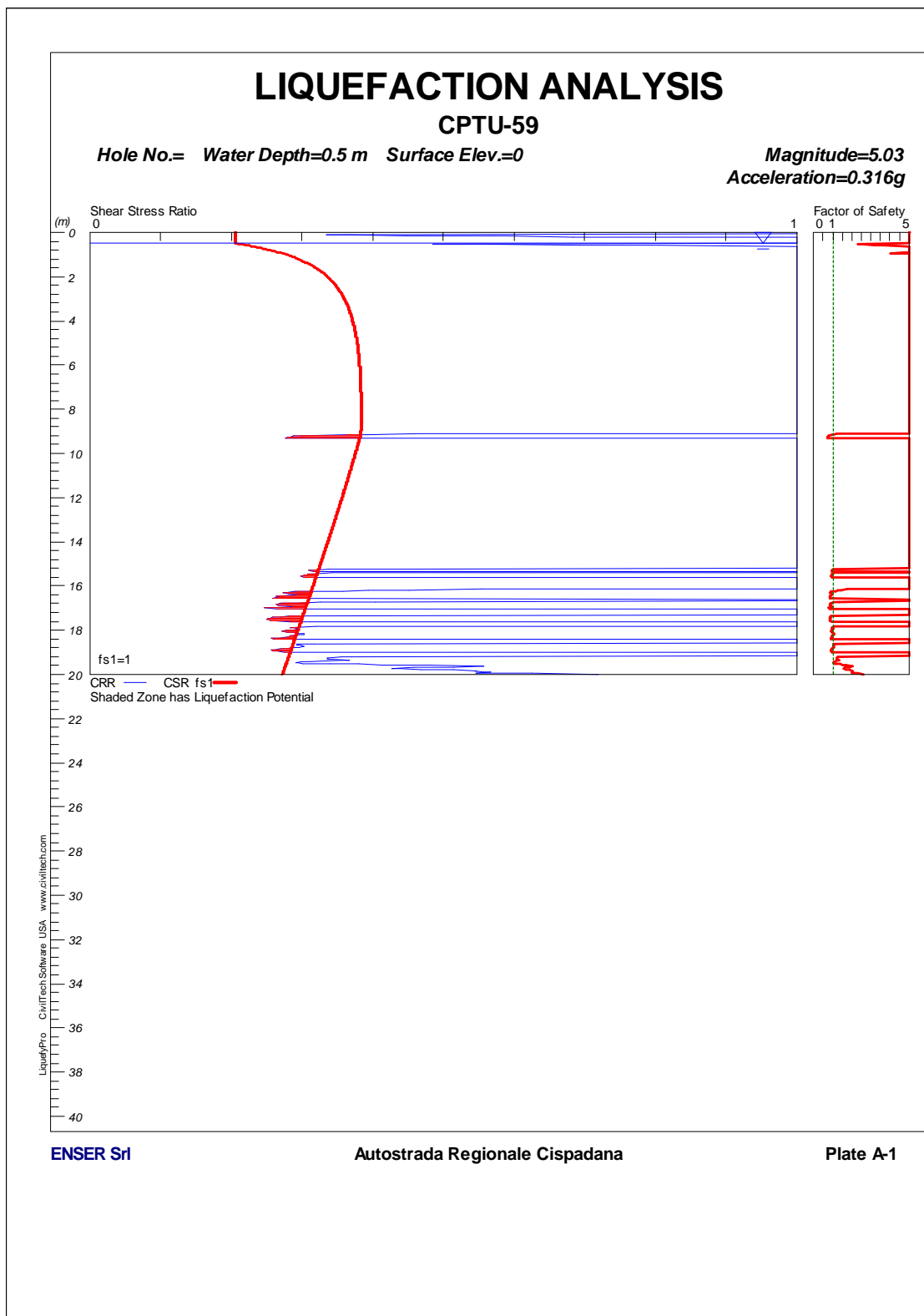


FIGURA 1-34: CPTU59 – VERIFICA A LIQUEFAZIONE.

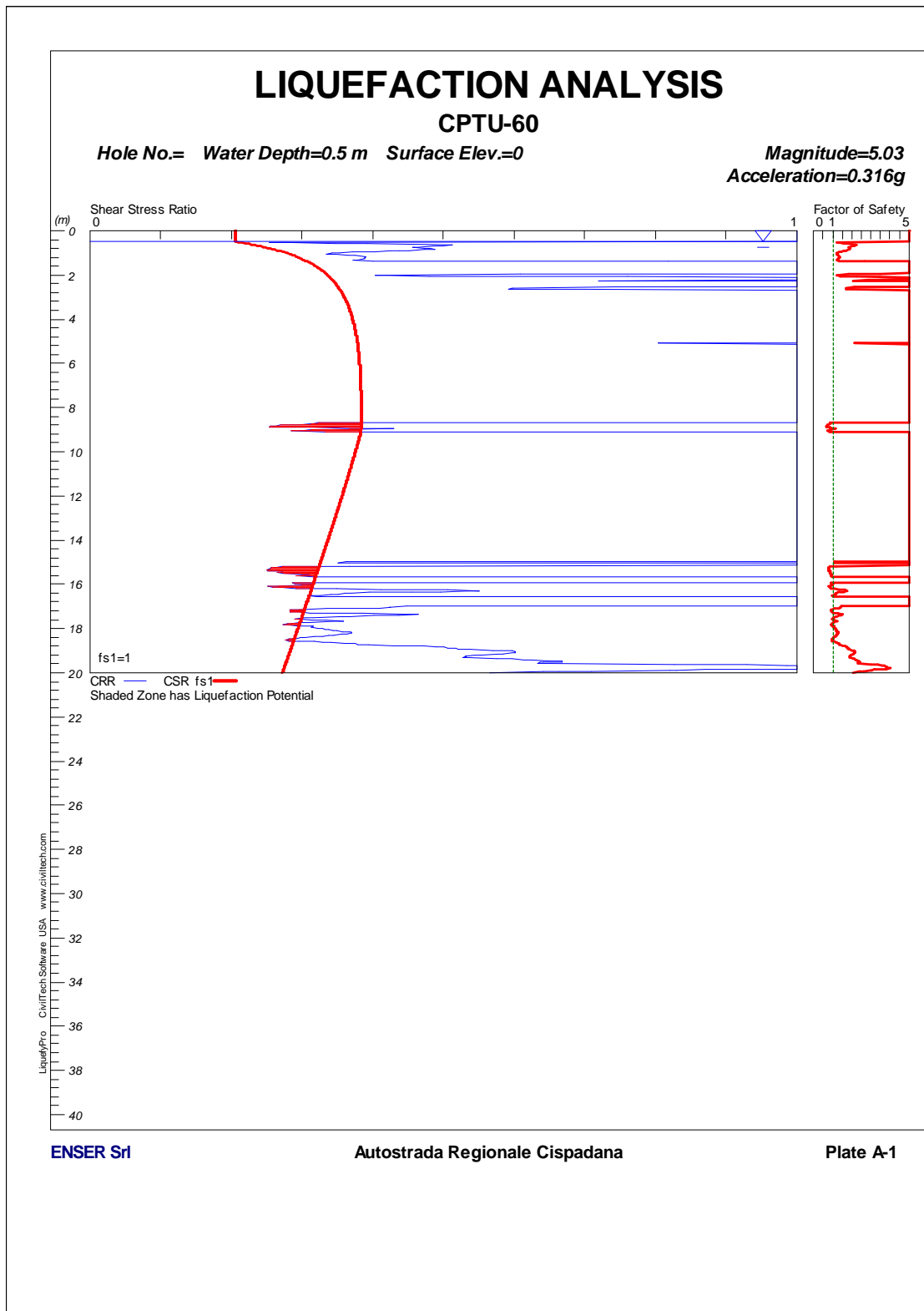


FIGURA 1-35: CPTU60 – VERIFICA A LIQUEFAZIONE.

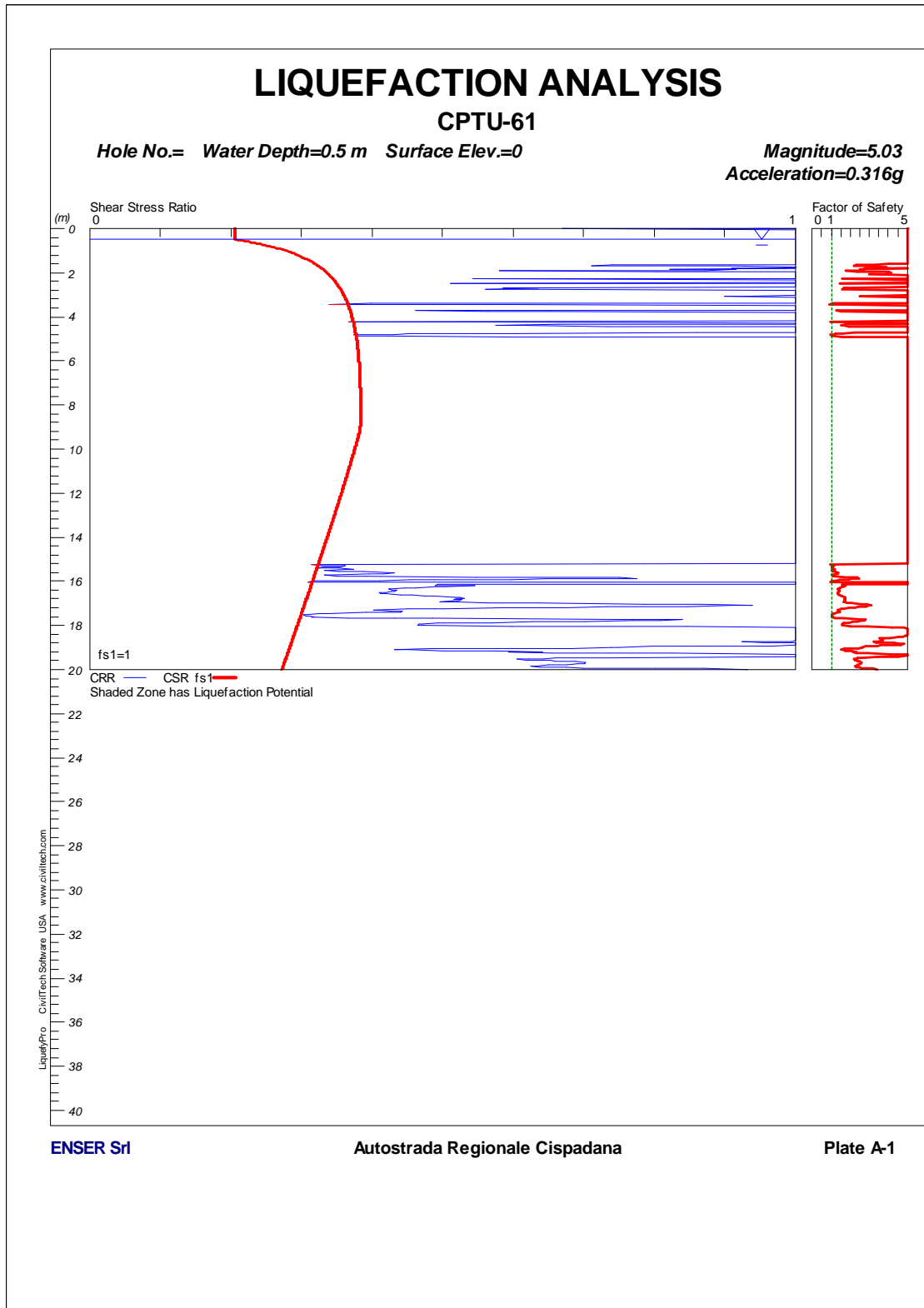


FIGURA 1-36: CPTU61 – VERIFICA A LIQUEFAZIONE.

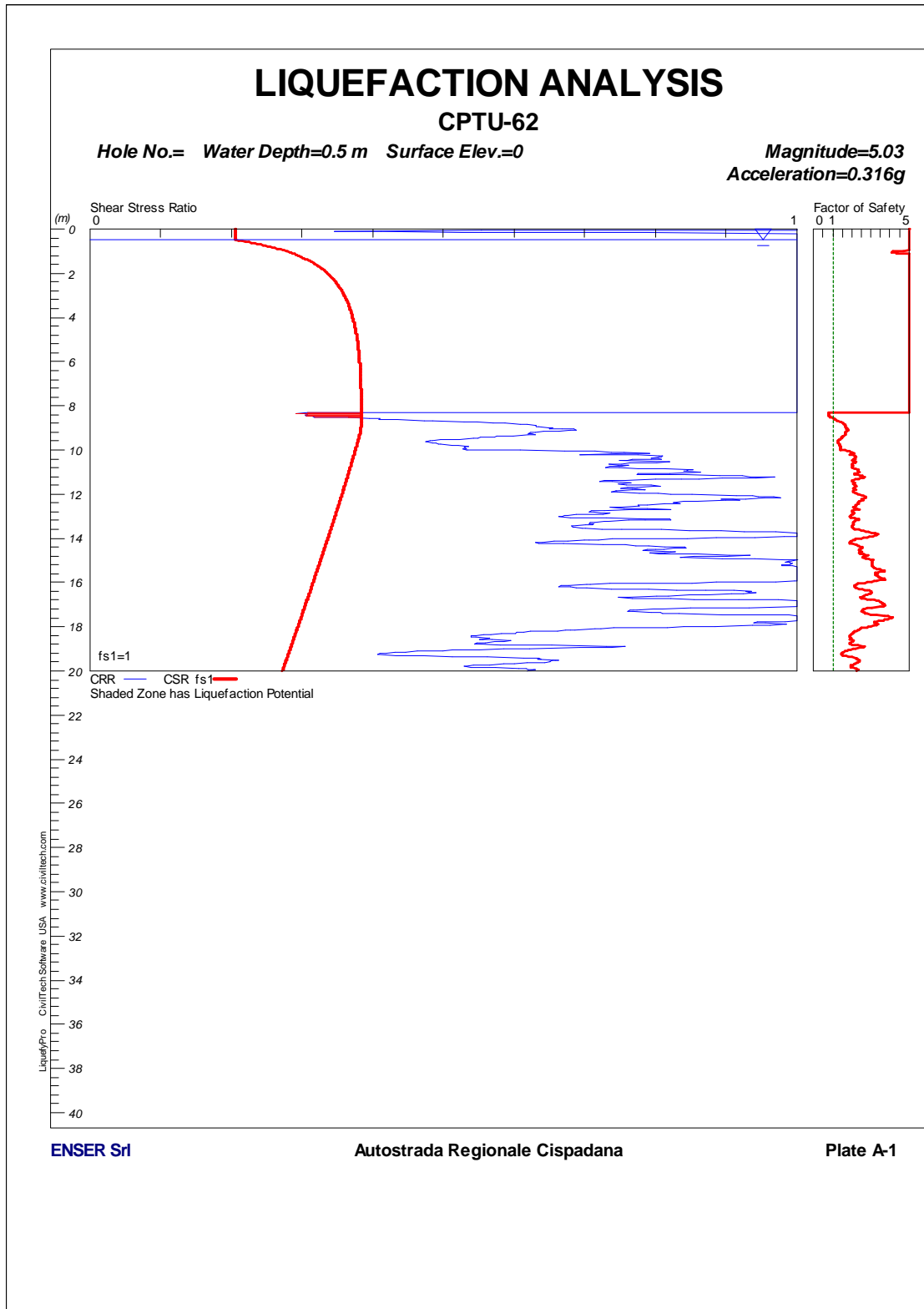


FIGURA 1-37: CPTU62 – VERIFICA A LIQUEFAZIONE.

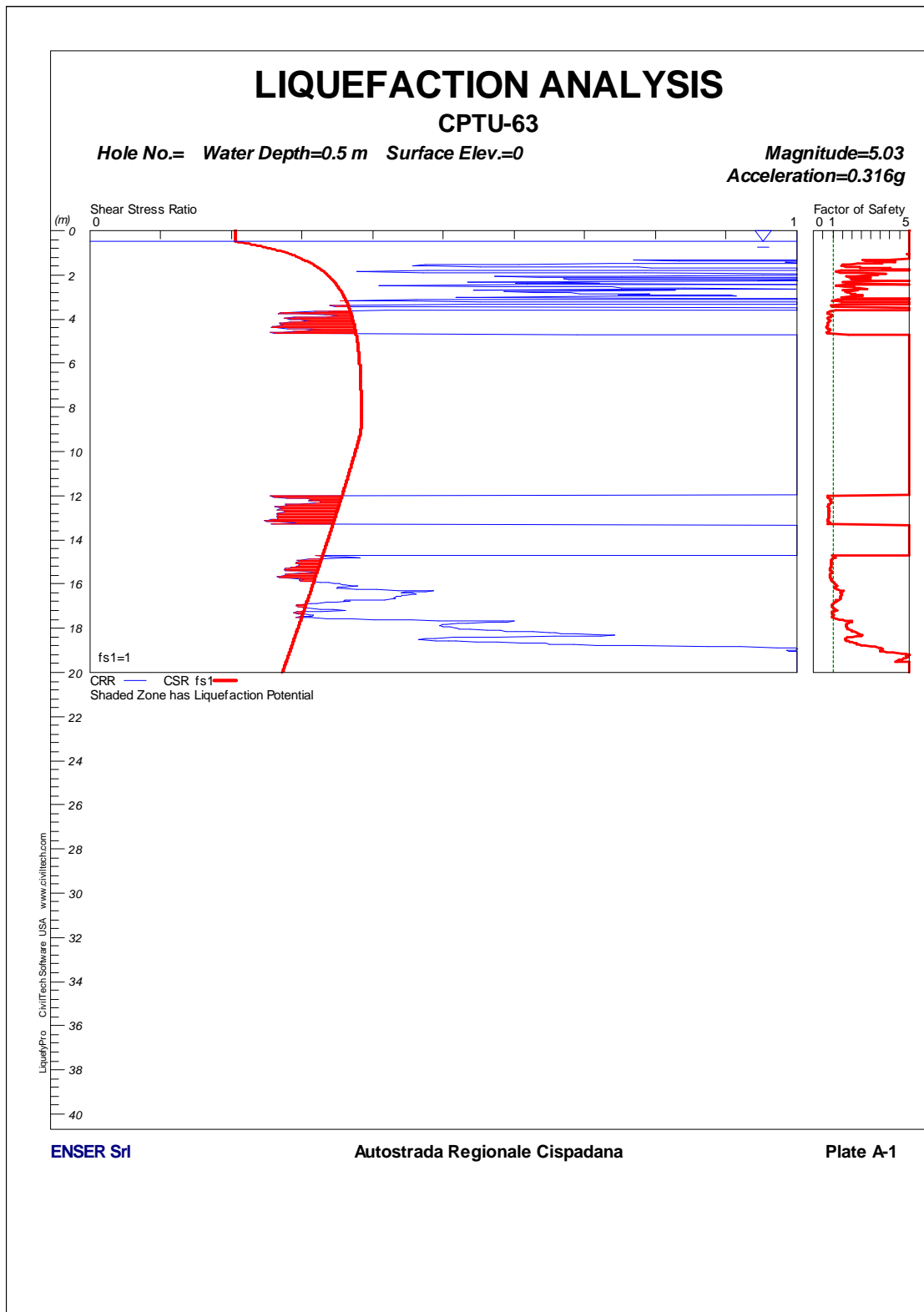


FIGURA 1-38: CPTU63 – VERIFICA A LIQUEFAZIONE.

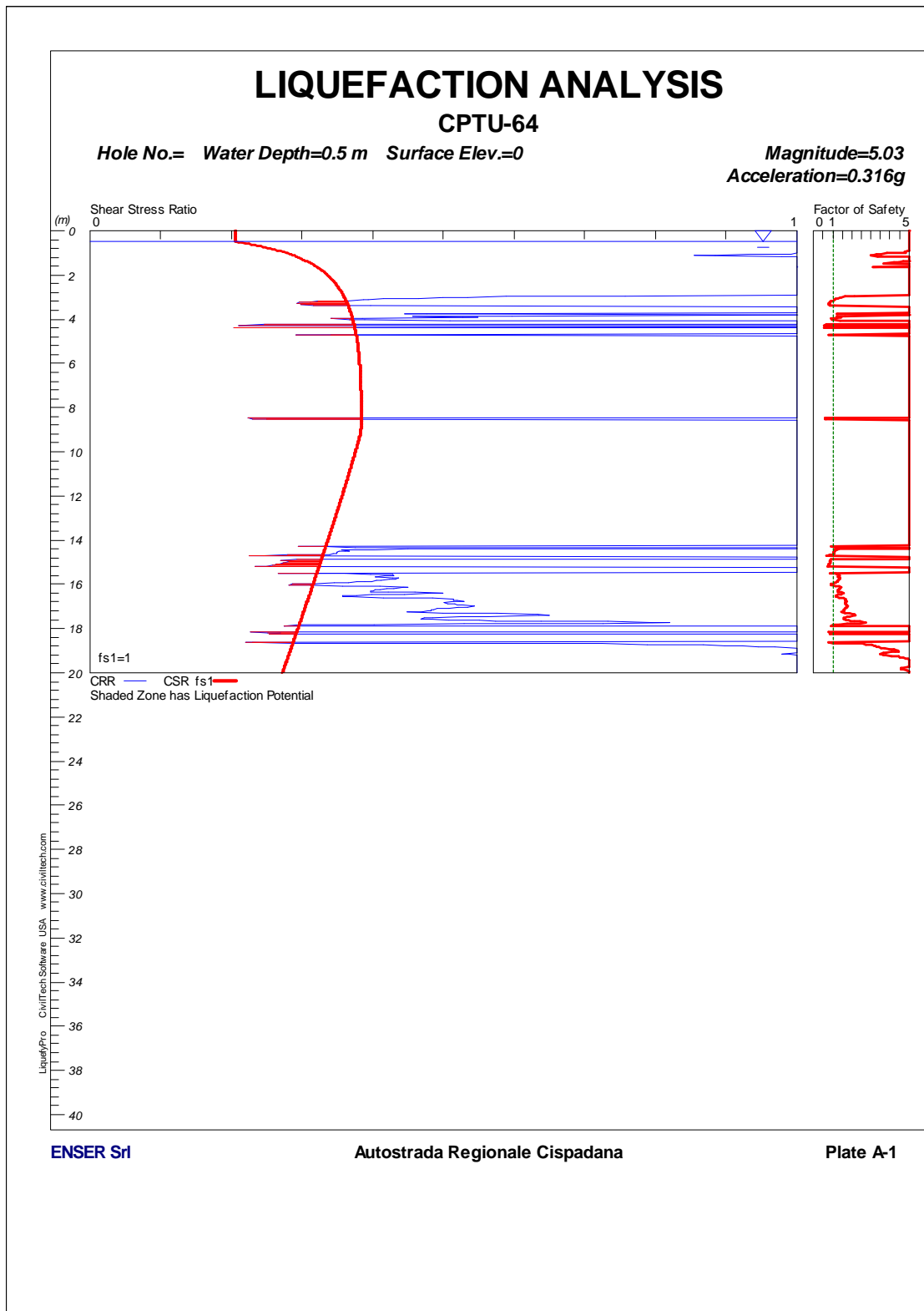


FIGURA 1-39: CPTU64 – VERIFICA A LIQUEFAZIONE.

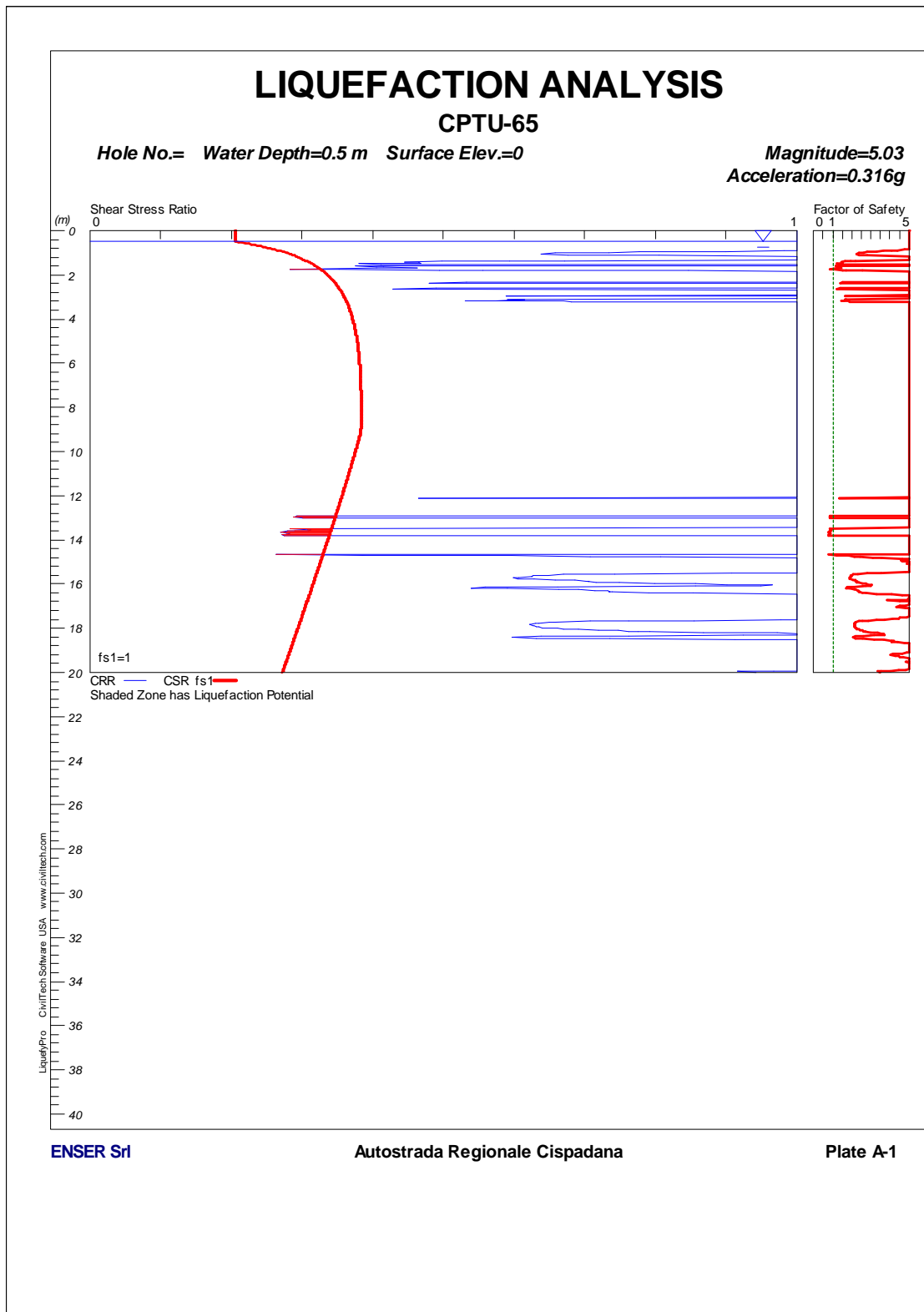


FIGURA 1-40: CPTU65 – VERIFICA A LIQUEFAZIONE.

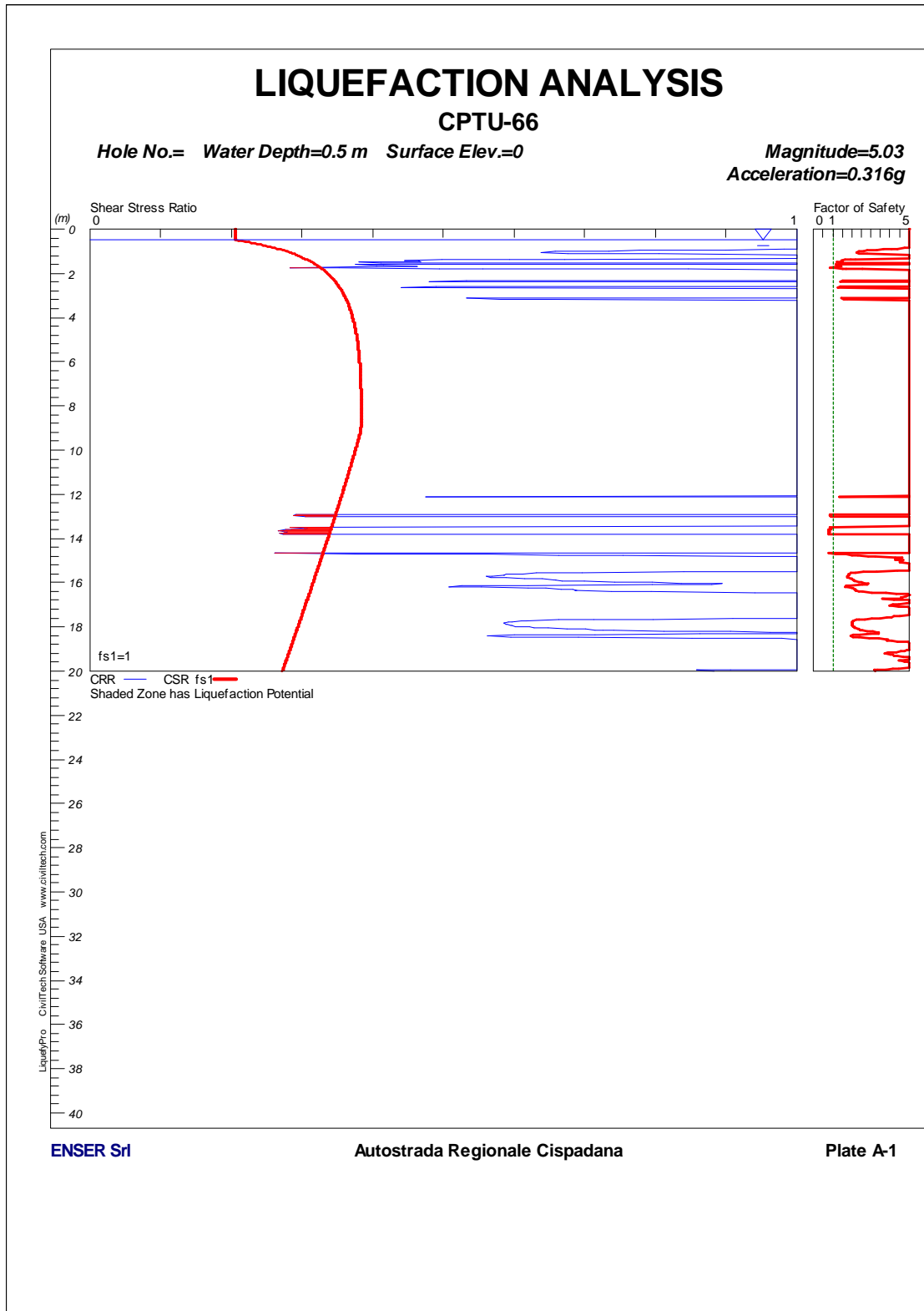


FIGURA 1-41: CPTU66 – VERIFICA A LIQUEFAZIONE.

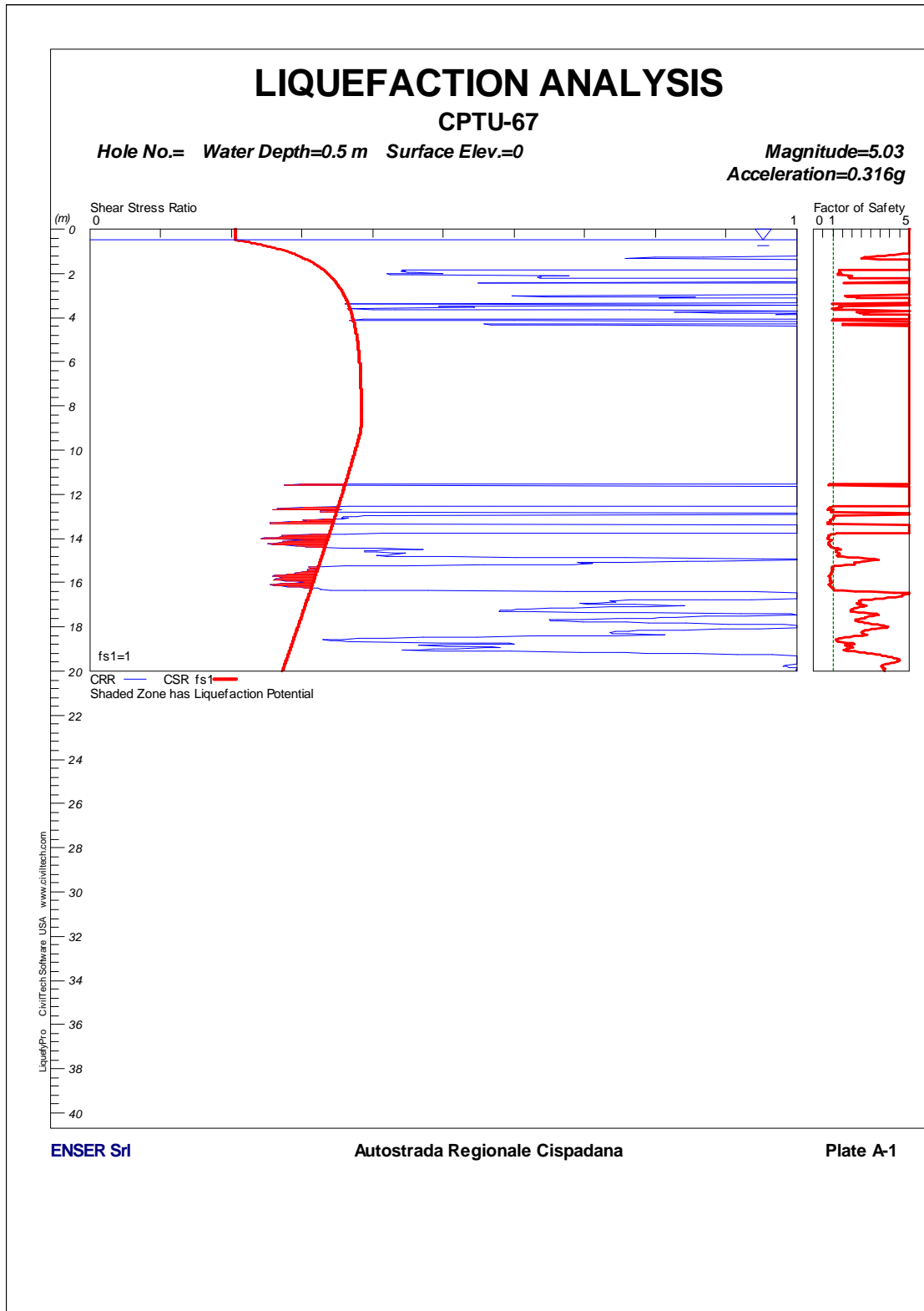


FIGURA 1-42: CPTU67 – VERIFICA A LIQUEFAZIONE.

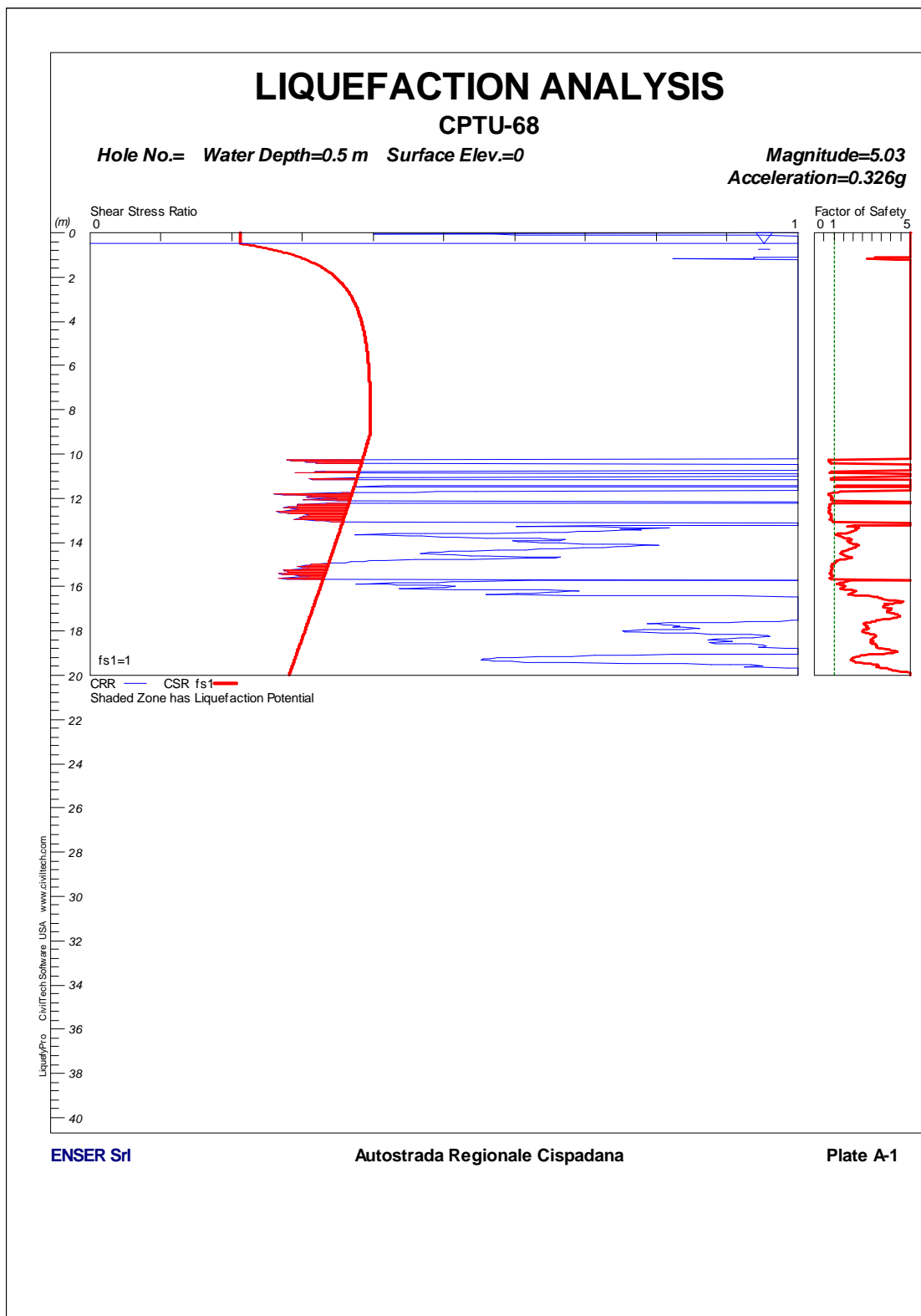


FIGURA 1-43: CPTU68 – VERIFICA A LIQUEFAZIONE.

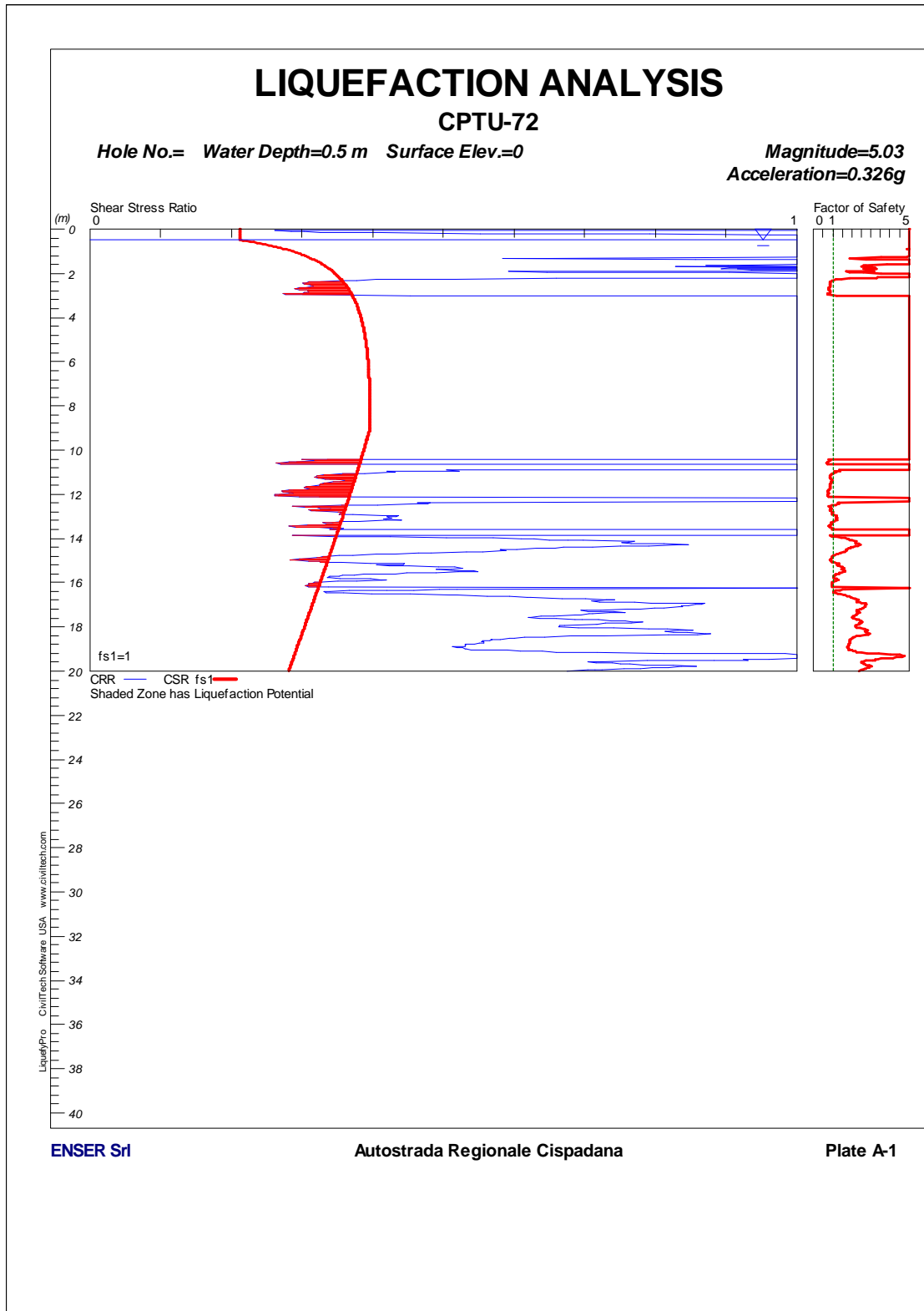


FIGURA 1-44: CPTU72 – VERIFICA A LIQUEFAZIONE.

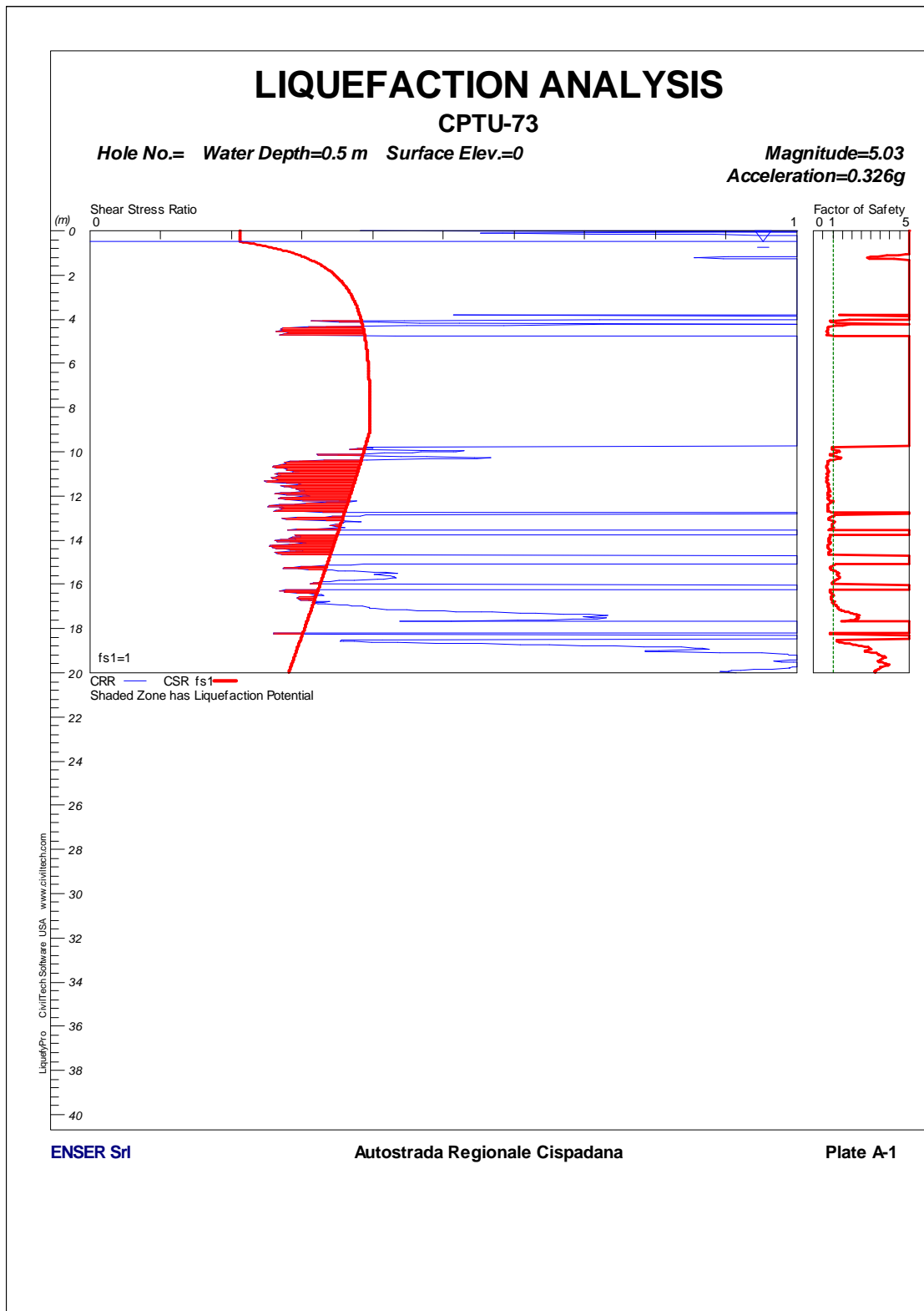


FIGURA 1-45: CPTU73 – VERIFICA A LIQUEFAZIONE.

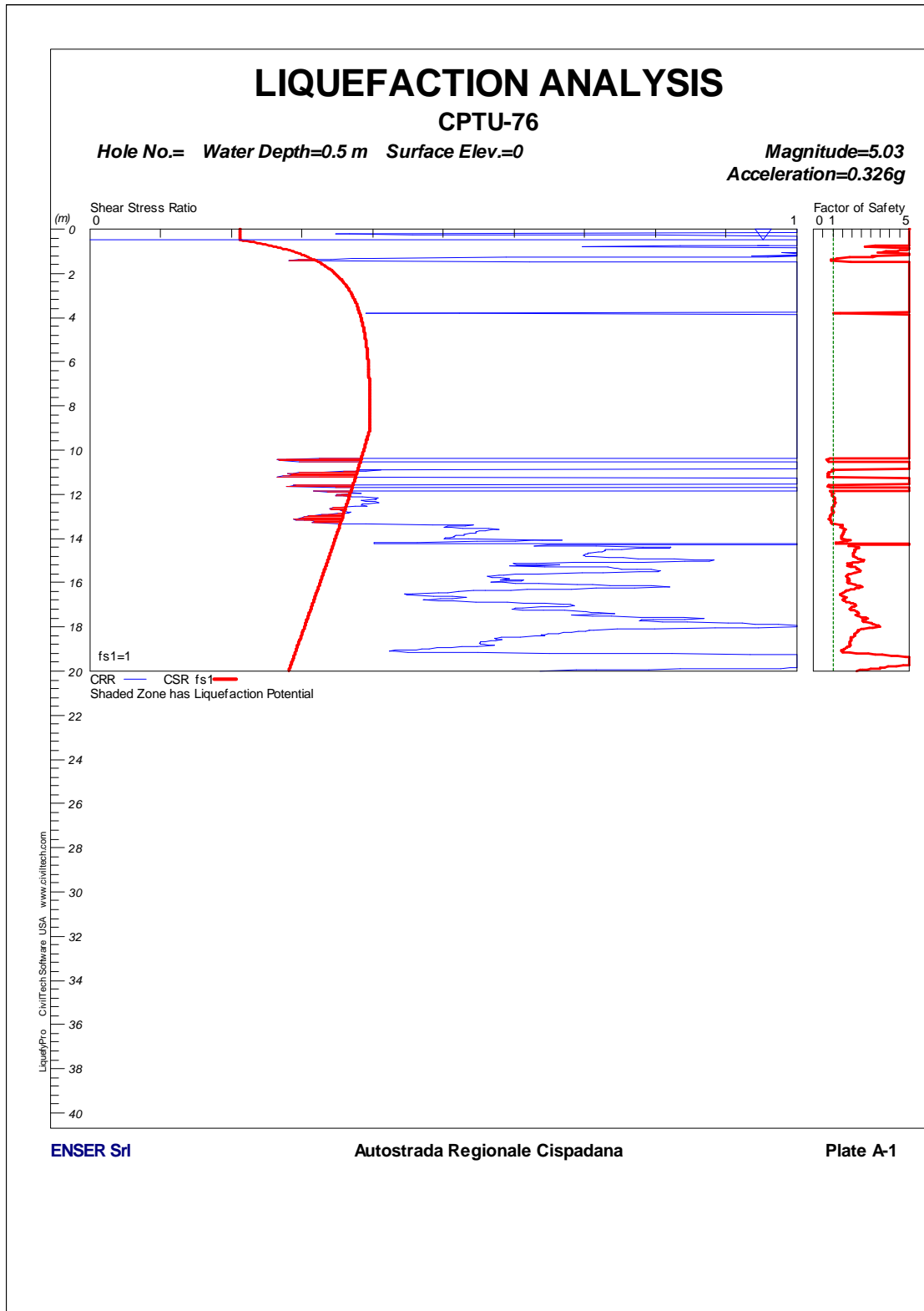


FIGURA 1-46: CPTU76 – VERIFICA A LIQUEFAZIONE.

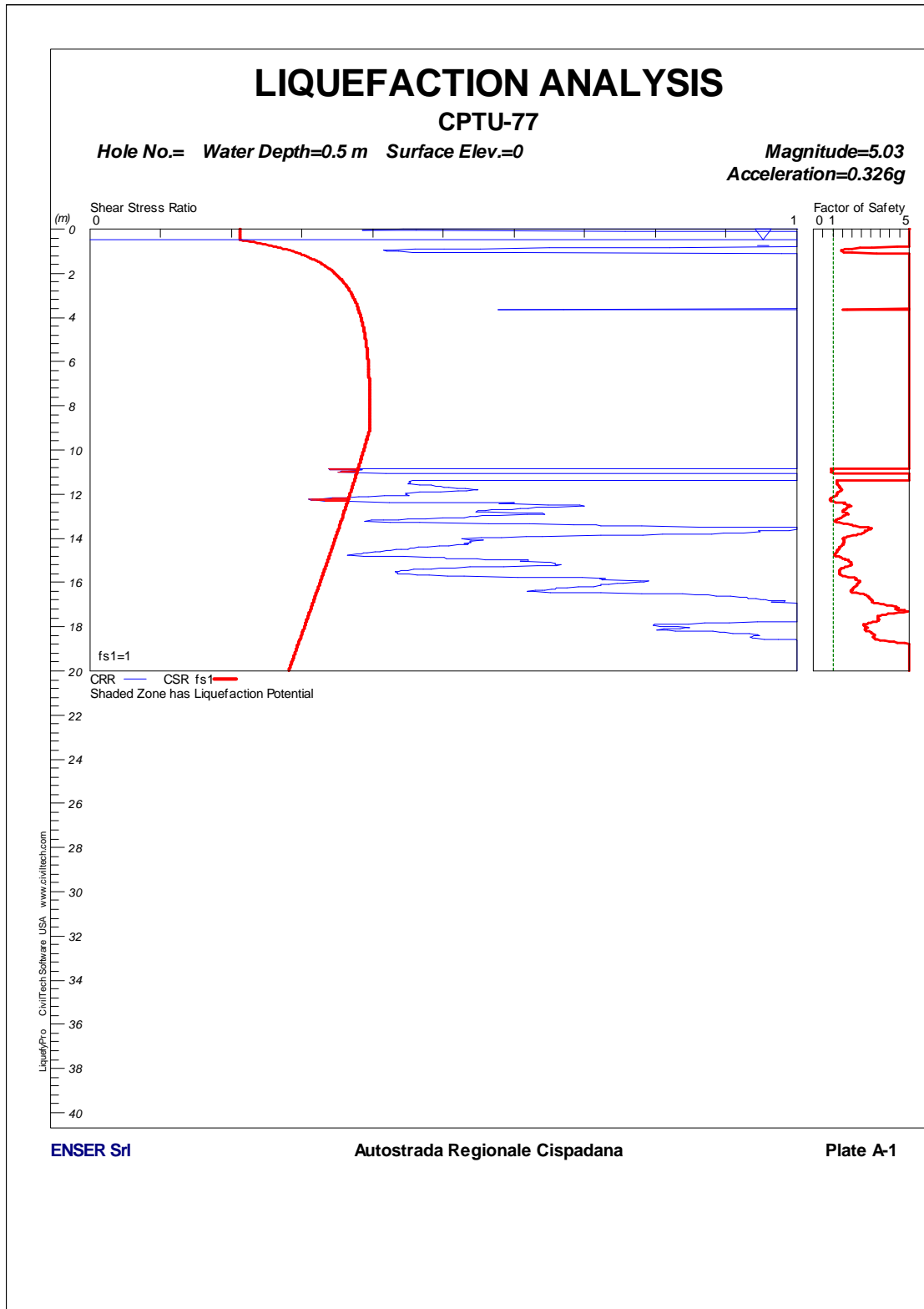


FIGURA 1-47: CPTU77 – VERIFICA A LIQUEFAZIONE.

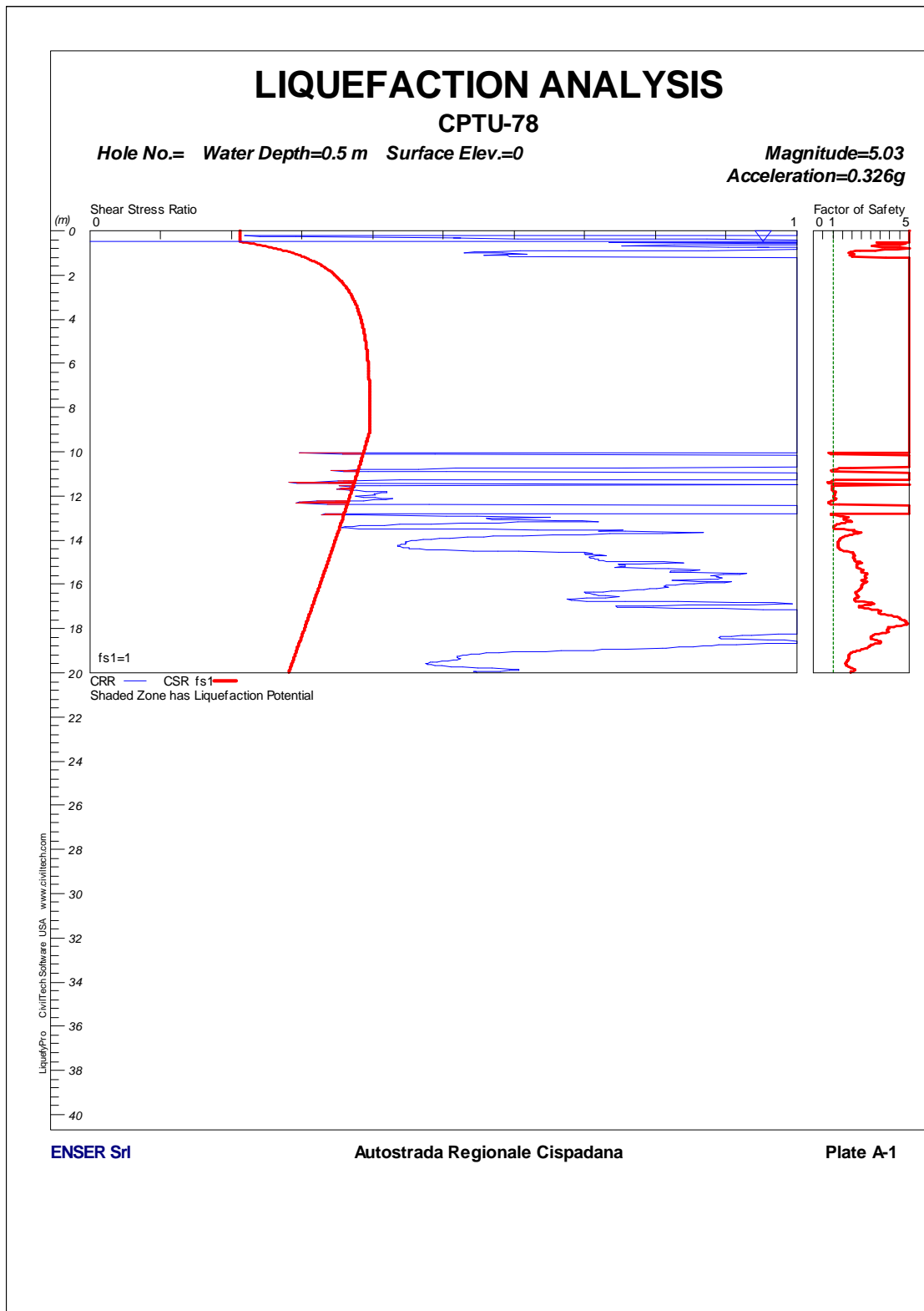


FIGURA 1-48: CPTU78 – VERIFICA A LIQUEFAZIONE.

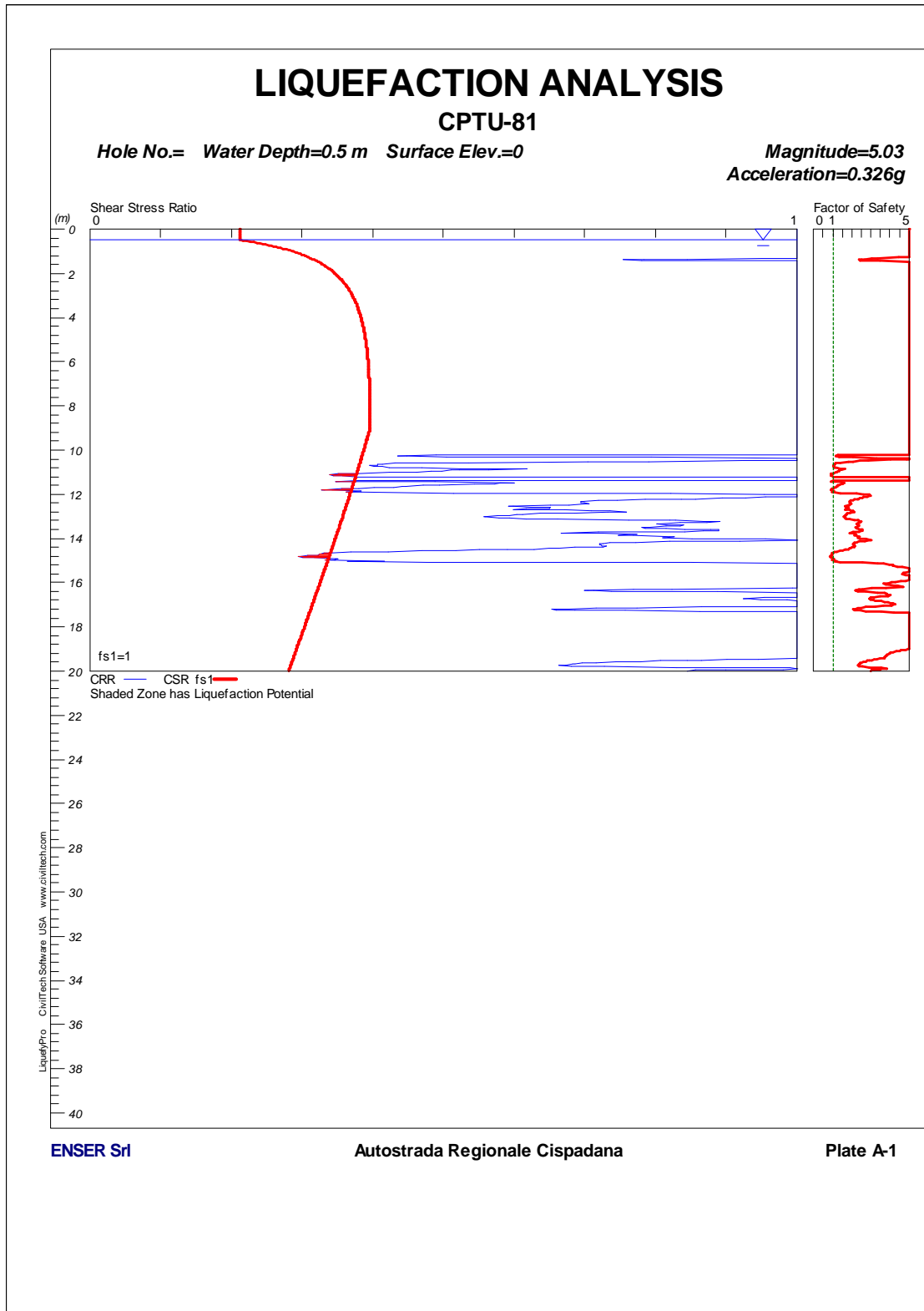


FIGURA 1-49: CPTU81 – VERIFICA A LIQUEFAZIONE.

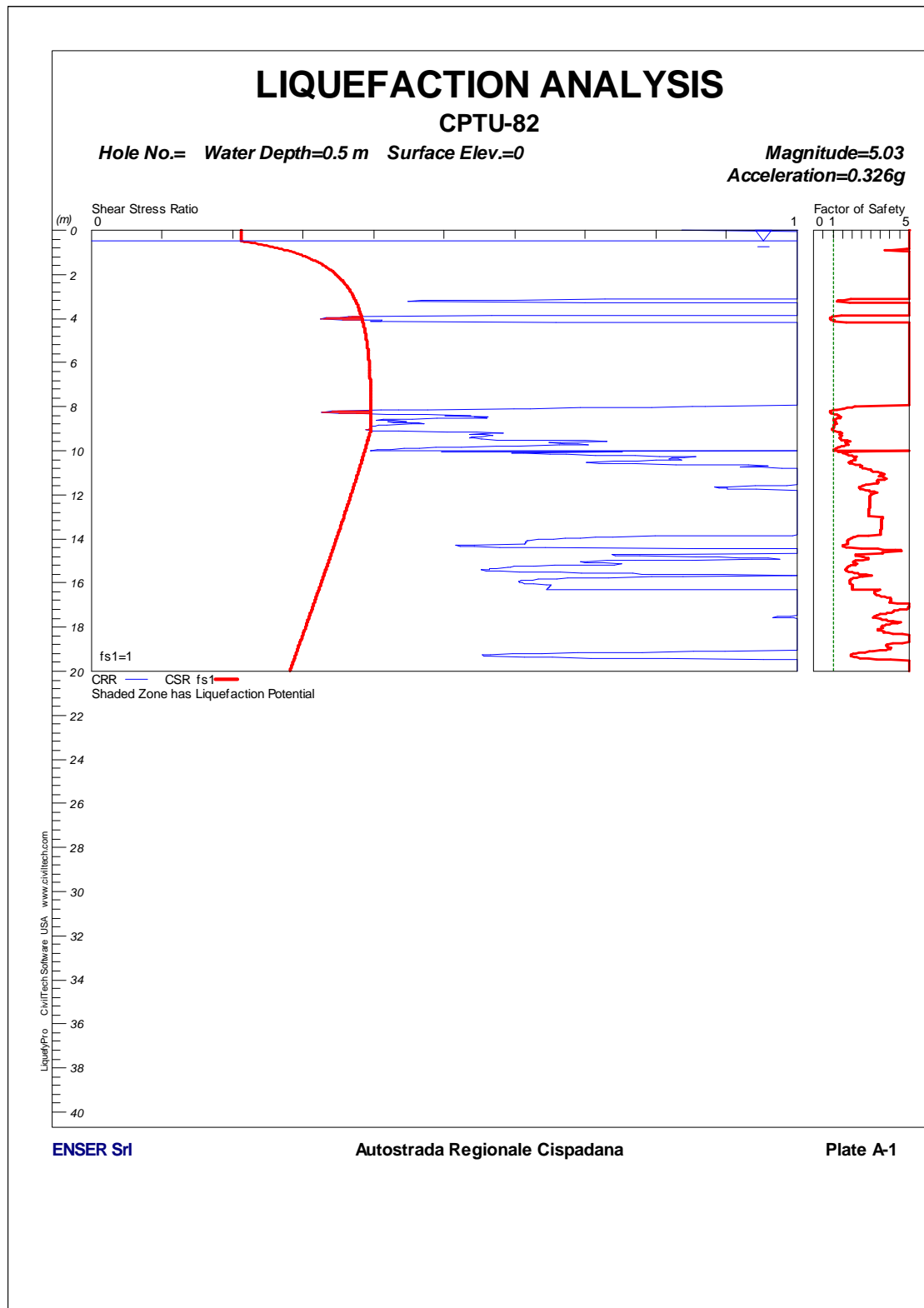


FIGURA 1-50: CPTU82 – VERIFICA A LIQUEFAZIONE.

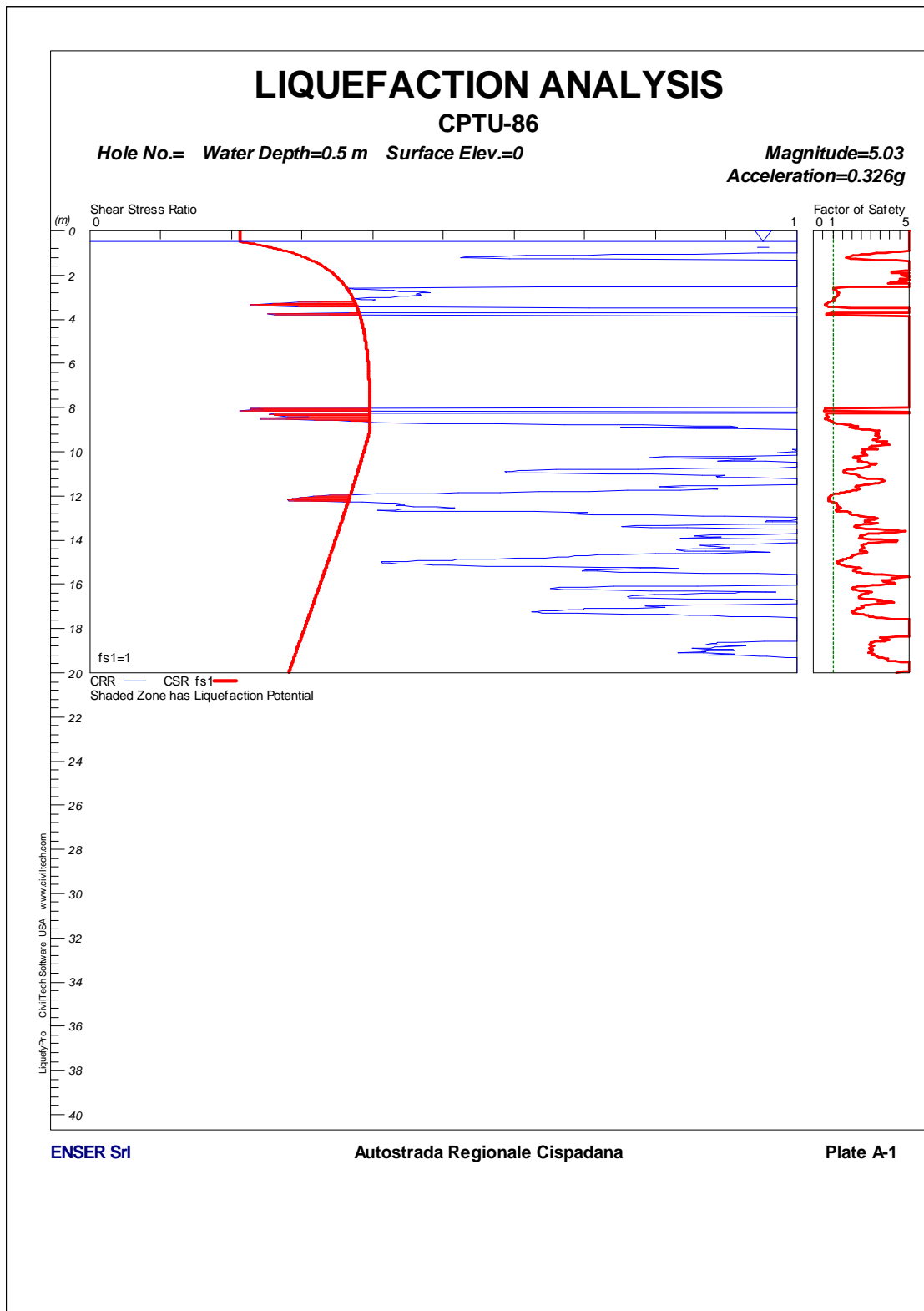


FIGURA 1-51: CPTU86 – VERIFICA A LIQUEFAZIONE.

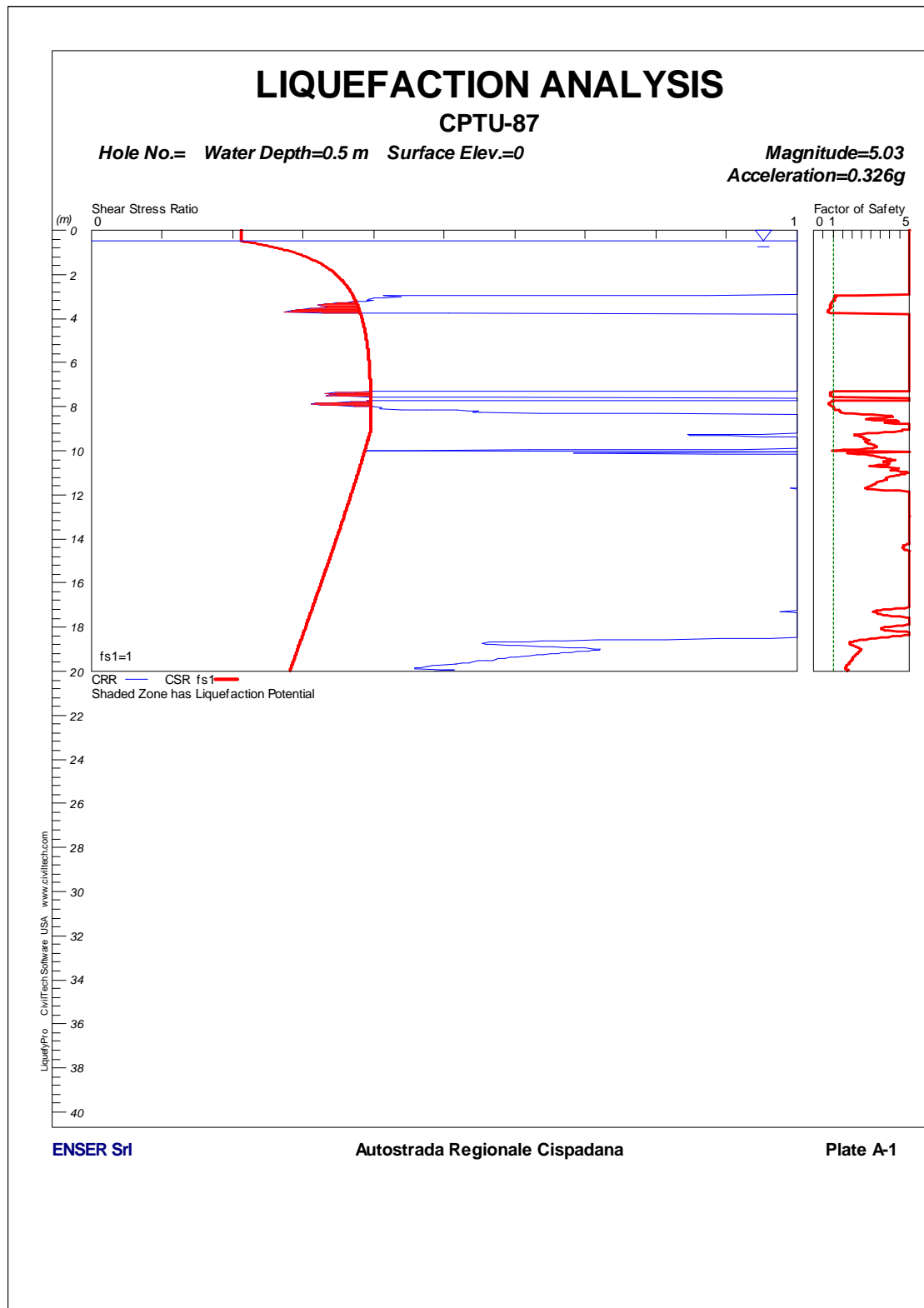


FIGURA 1-52: CPTU87 – VERIFICA A LIQUEFAZIONE.

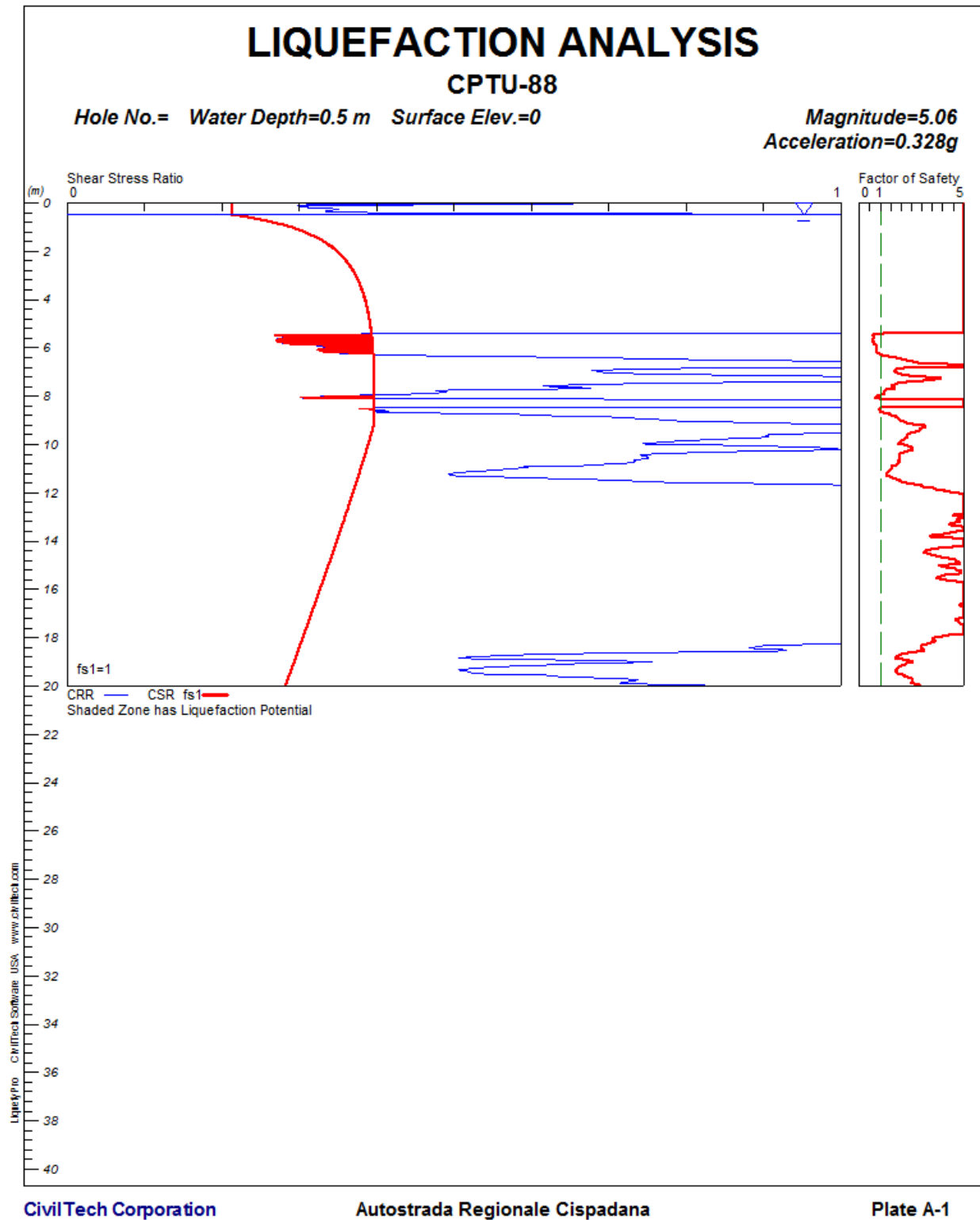


FIGURA 1-53: CPTU88 – VERIFICA A LIQUEFAZIONE.

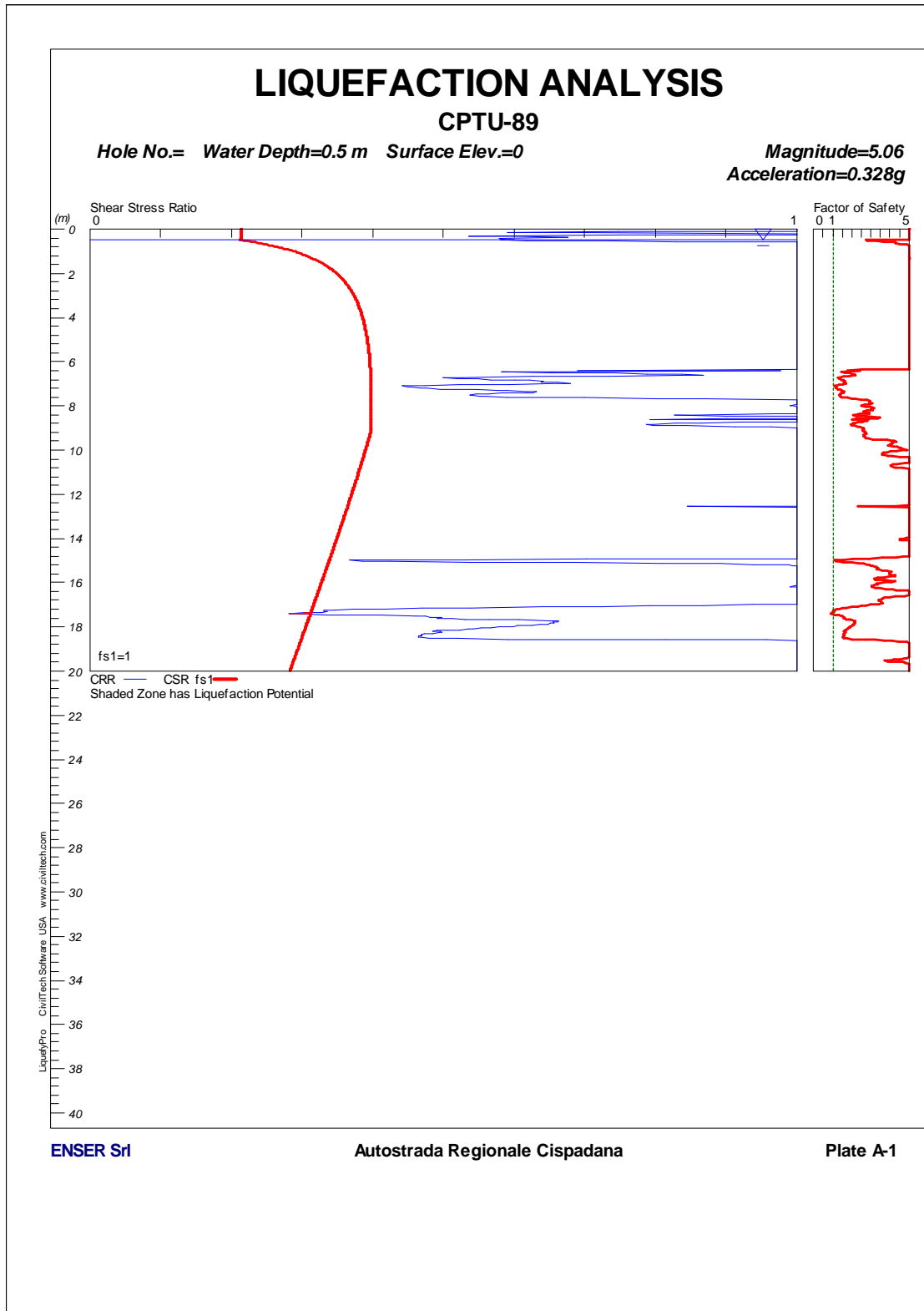
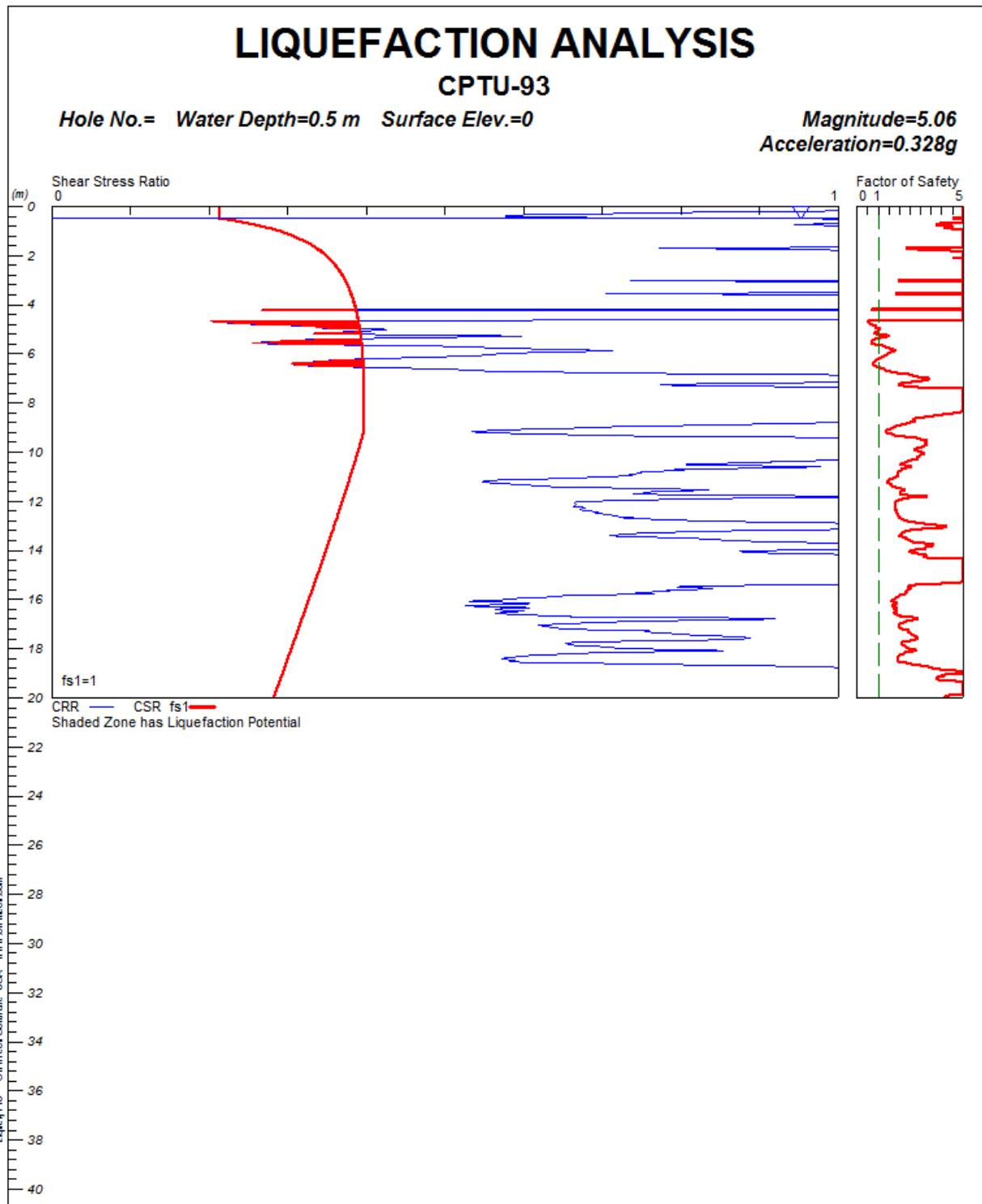


FIGURA 1-54: CPTU89 – VERIFICA A LIQUEFAZIONE.



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FIGURA 1-55: CPTU93 – VERIFICA A LIQUEFAZIONE.

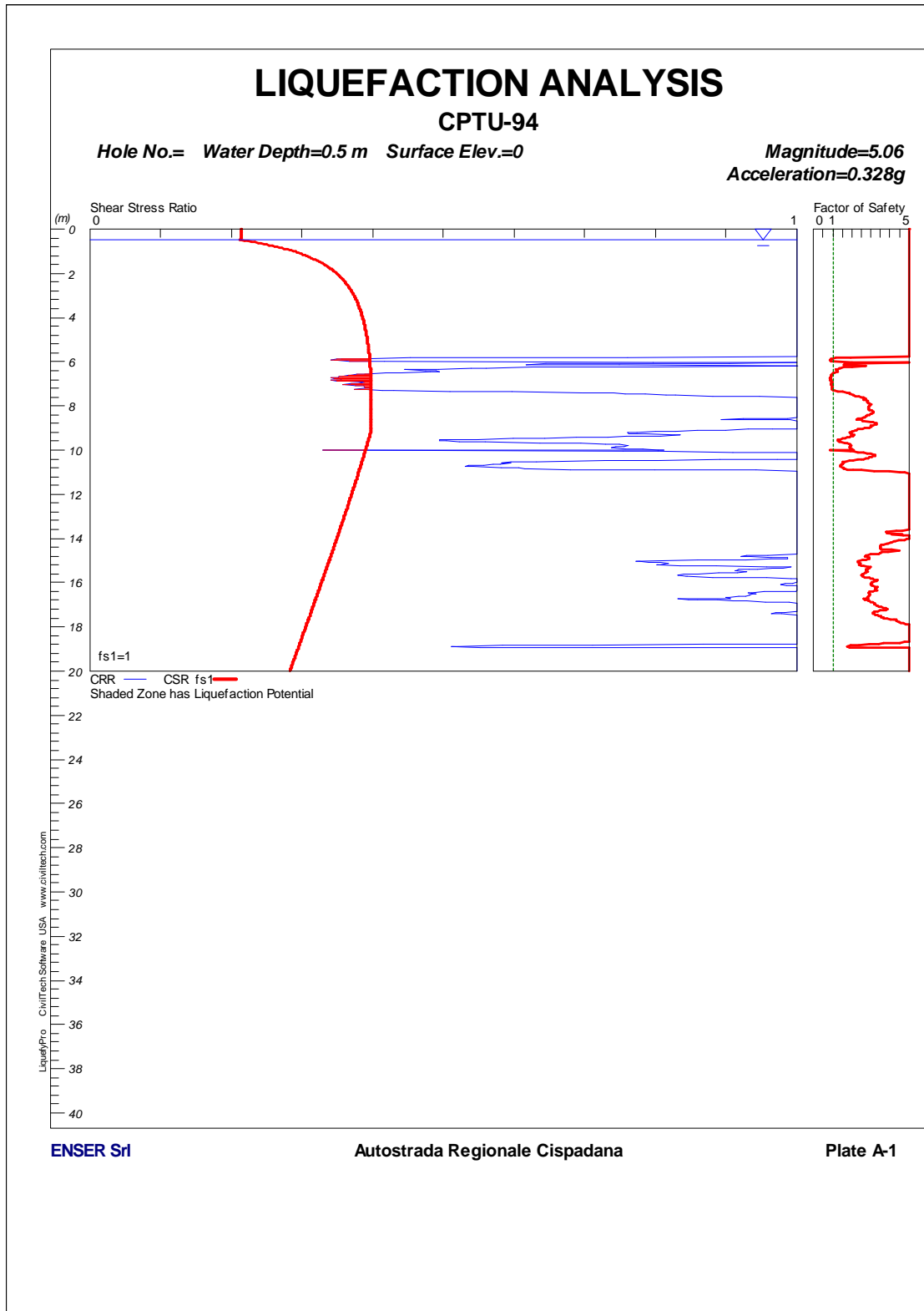


FIGURA 1-56: CPTU94 – VERIFICA A LIQUEFAZIONE.

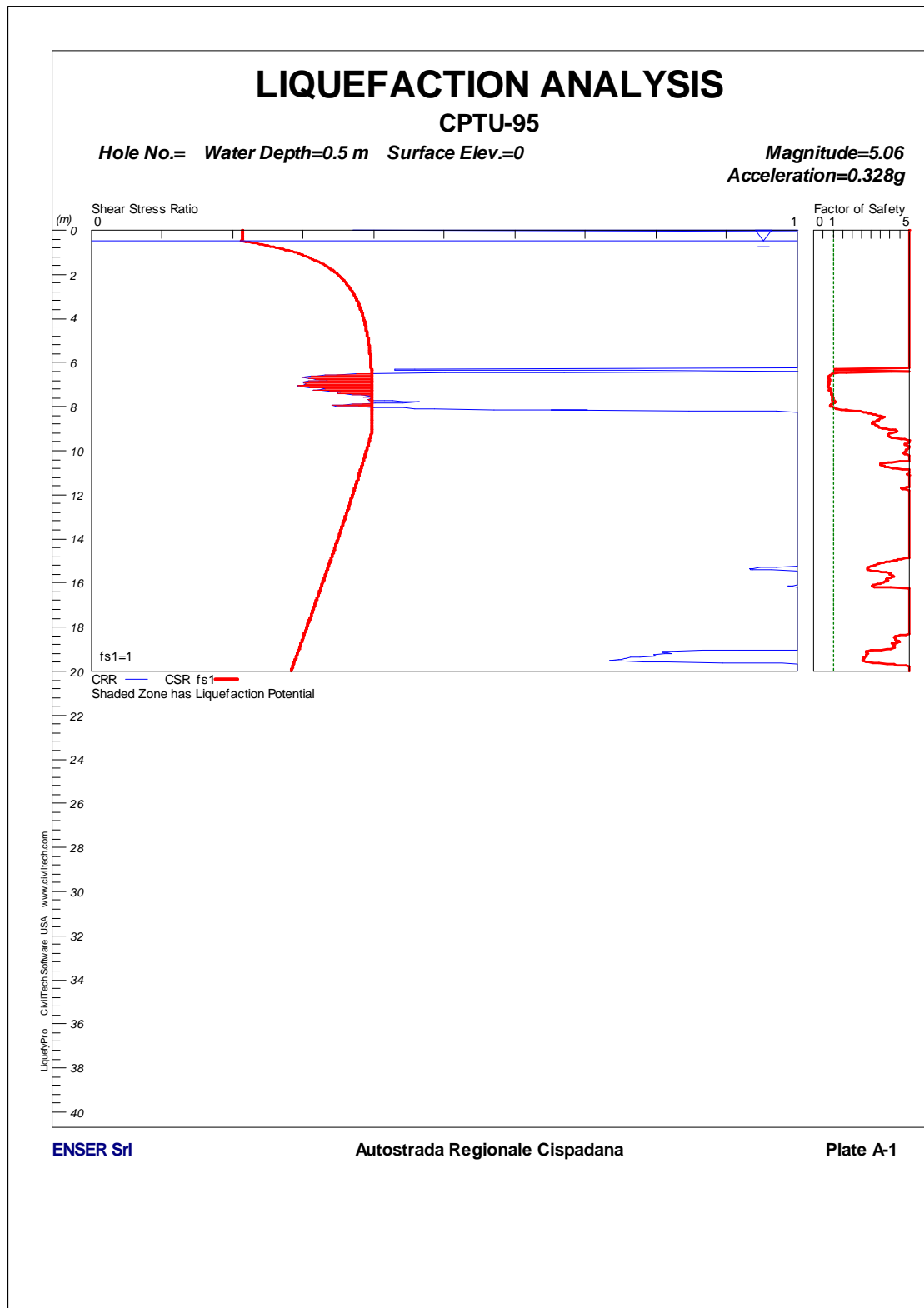


FIGURA 1-57: CPTU95 – VERIFICA A LIQUEFAZIONE.

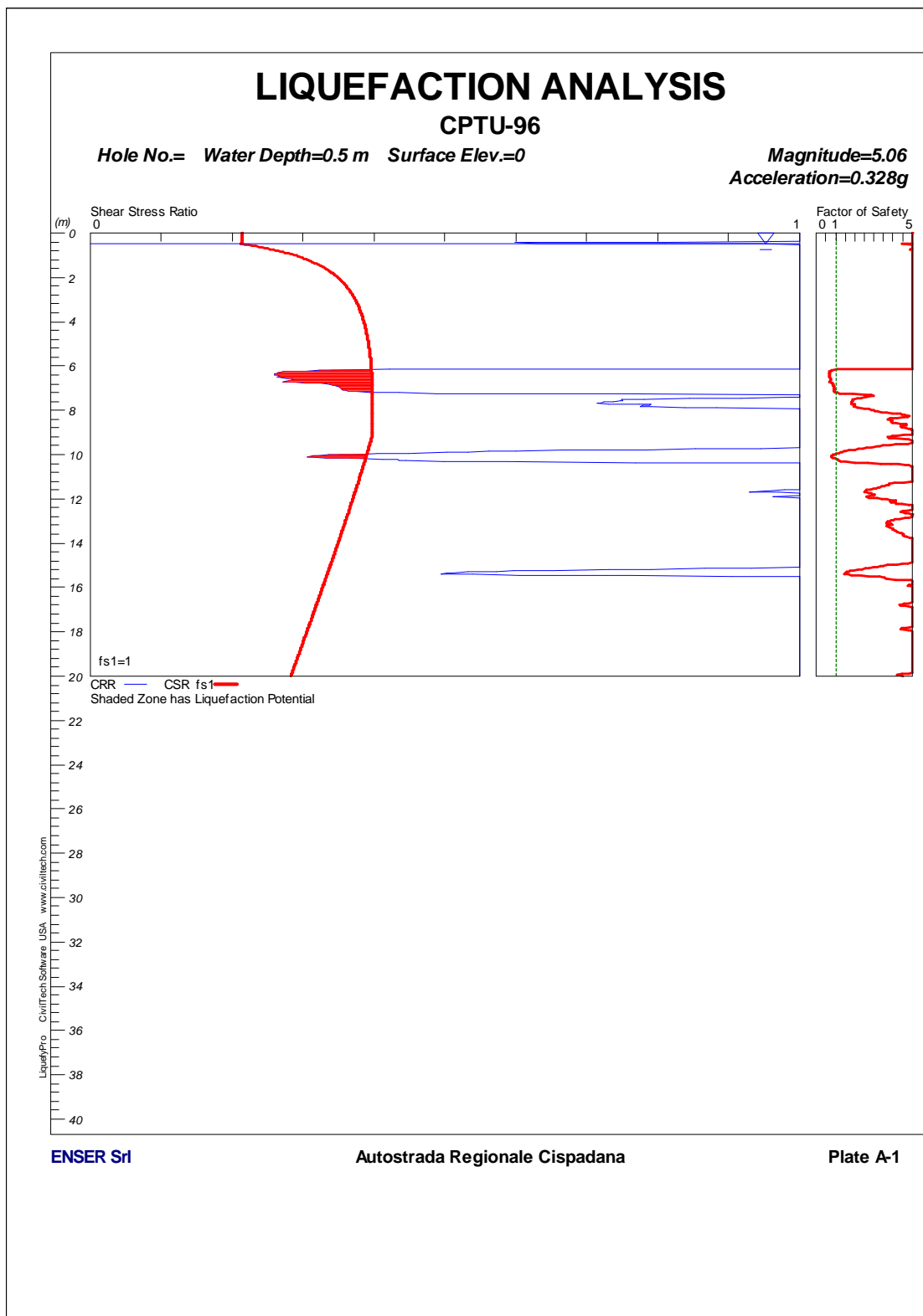


FIGURA 1-58: CPTU96 – VERIFICA A LIQUEFAZIONE.

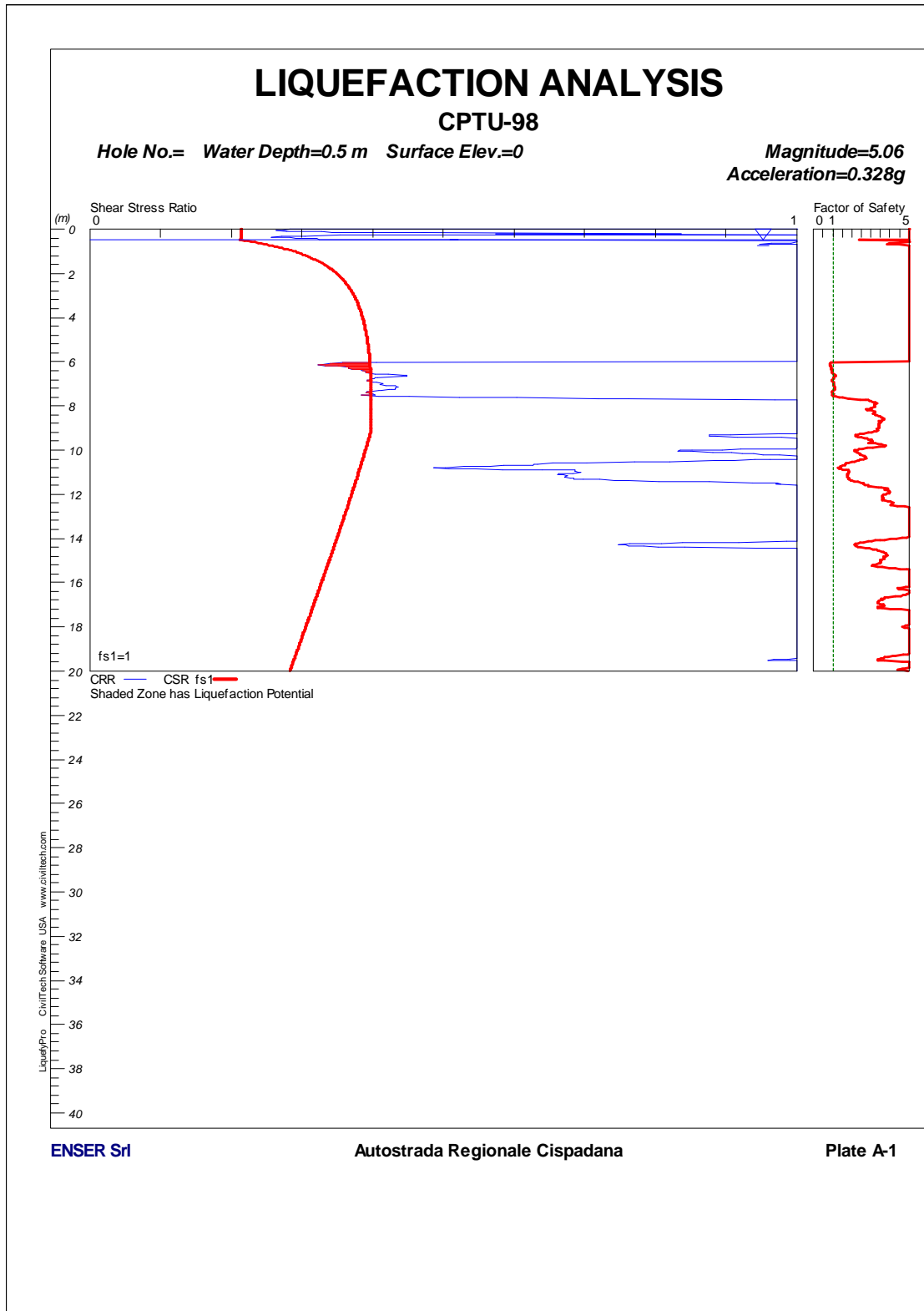


FIGURA 1-59: CPTU98 – VERIFICA A LIQUEFAZIONE.

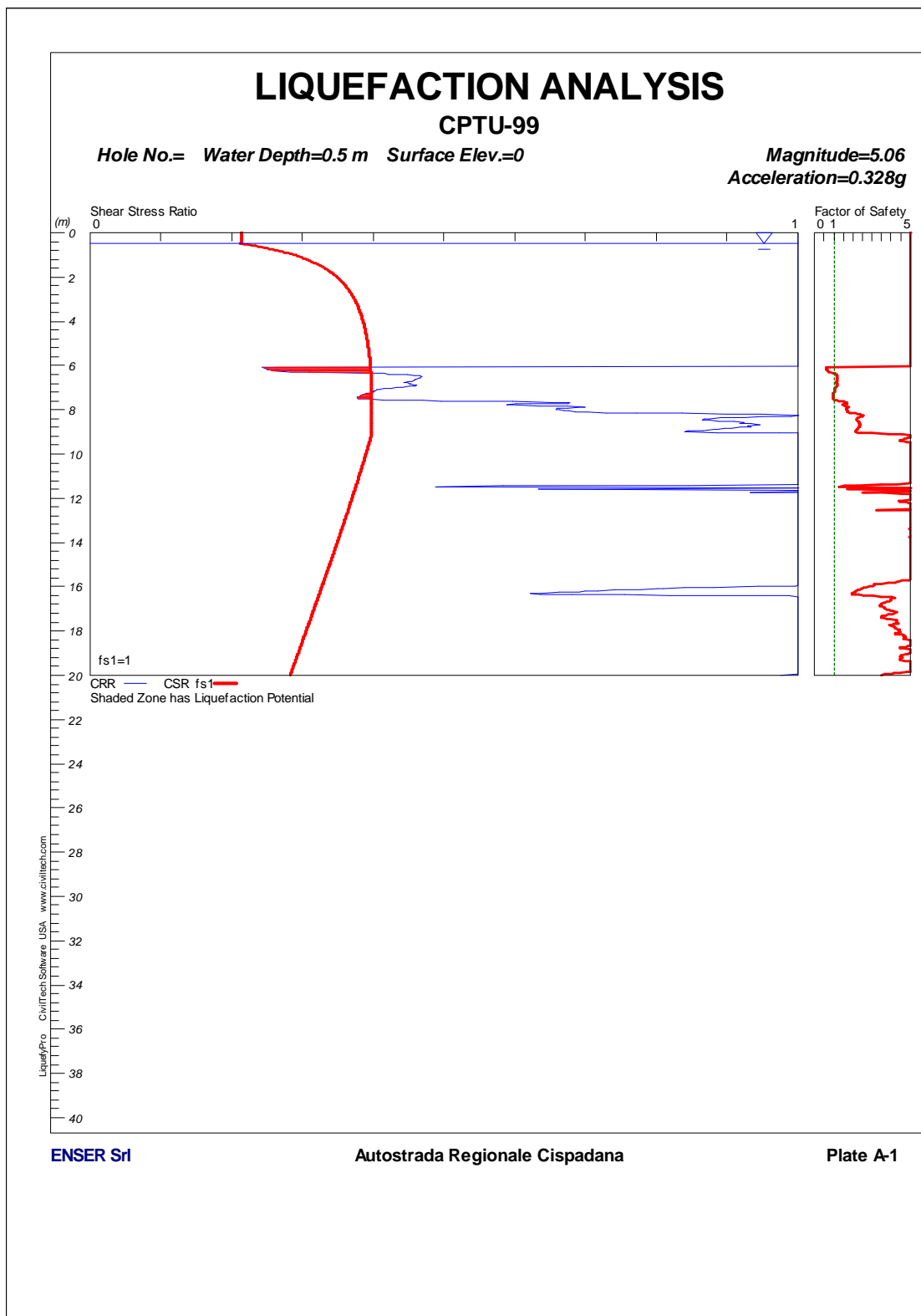


FIGURA 1-60: CPTU99 – VERIFICA A LIQUEFAZIONE.

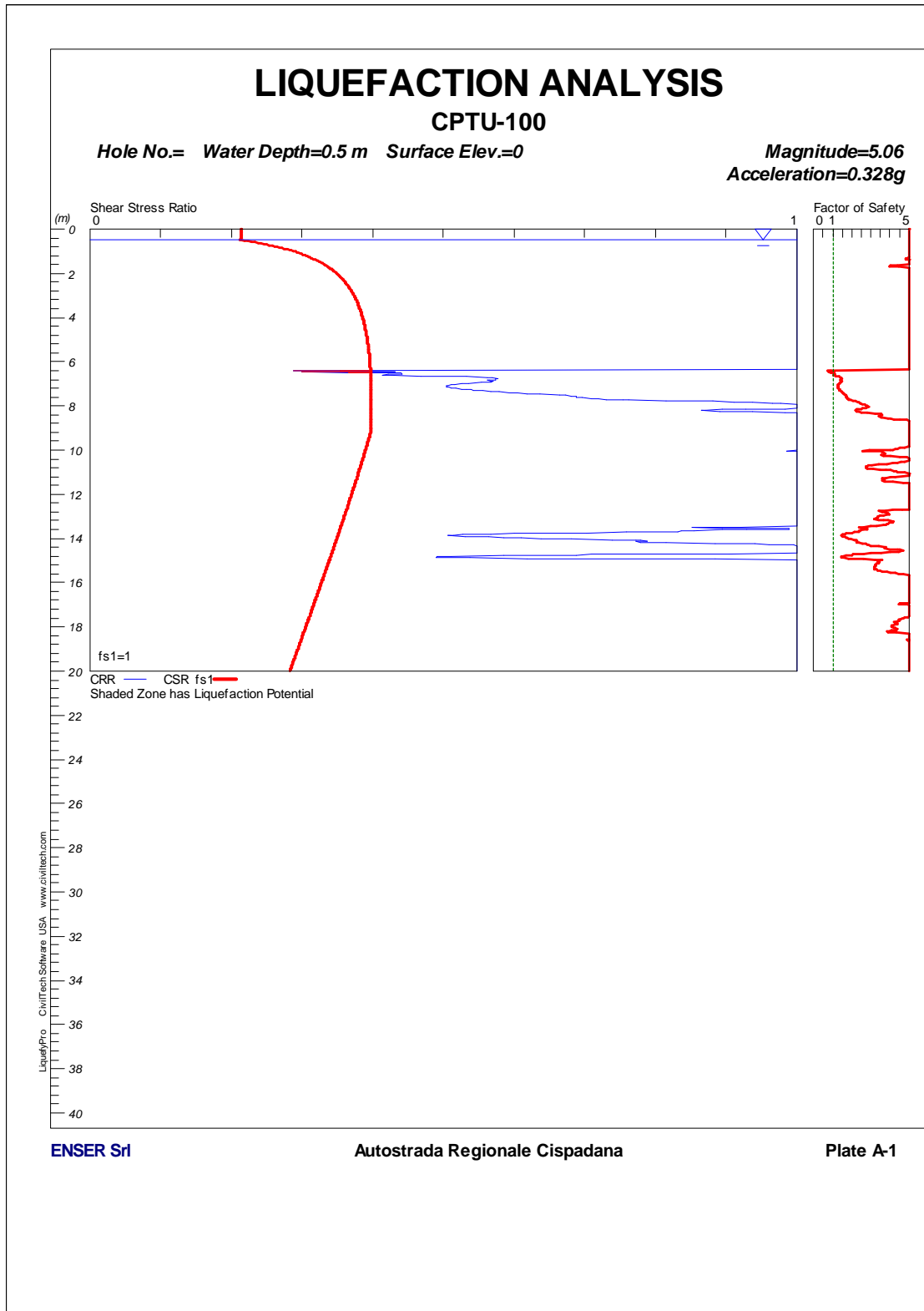


FIGURA 1-61: CPTU100 – VERIFICA A LIQUEFAZIONE.

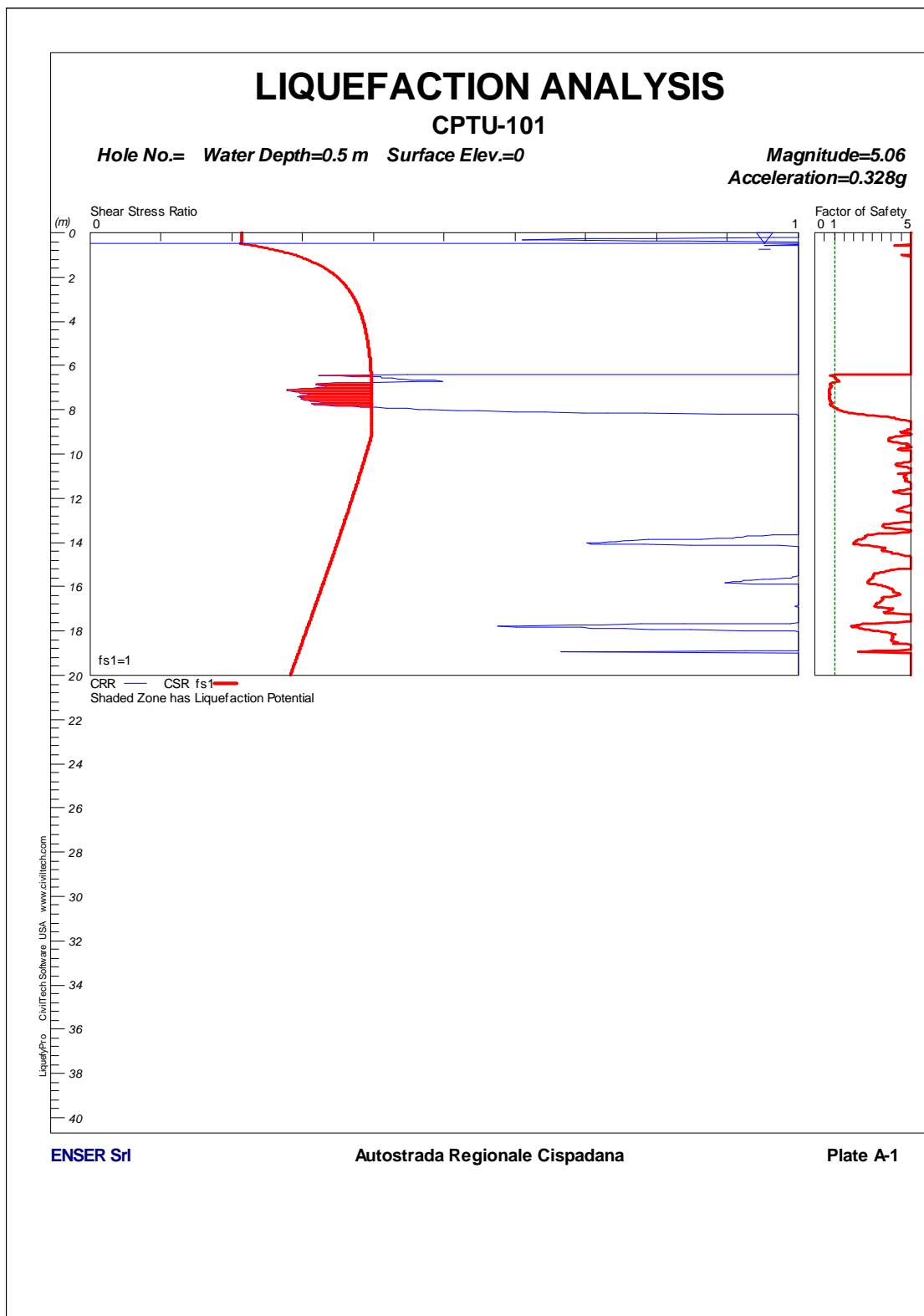


FIGURA 1-62: CPTU101 – VERIFICA A LIQUEFAZIONE.

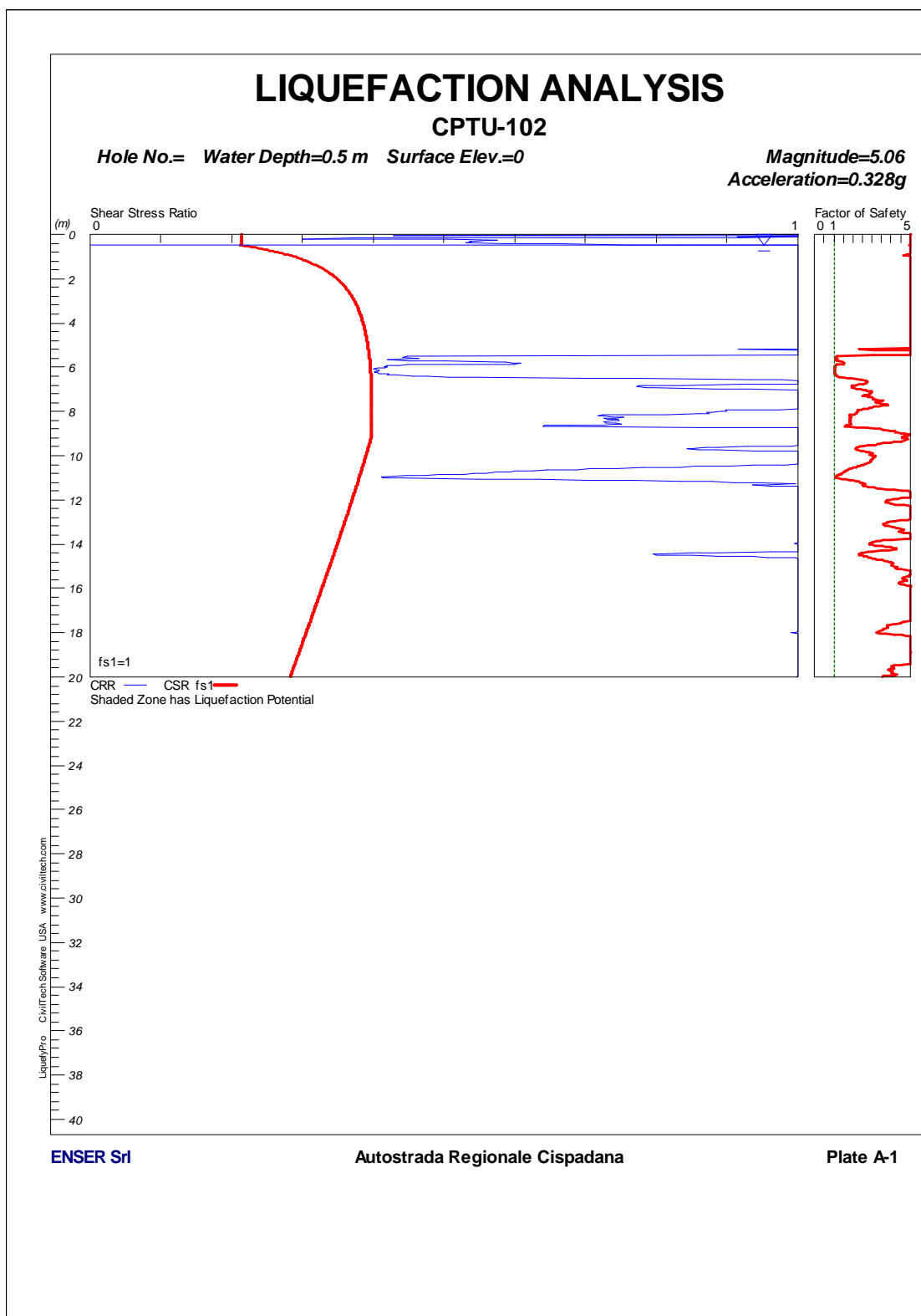


FIGURA 1-63: CPTU102 – VERIFICA A LIQUEFAZIONE.

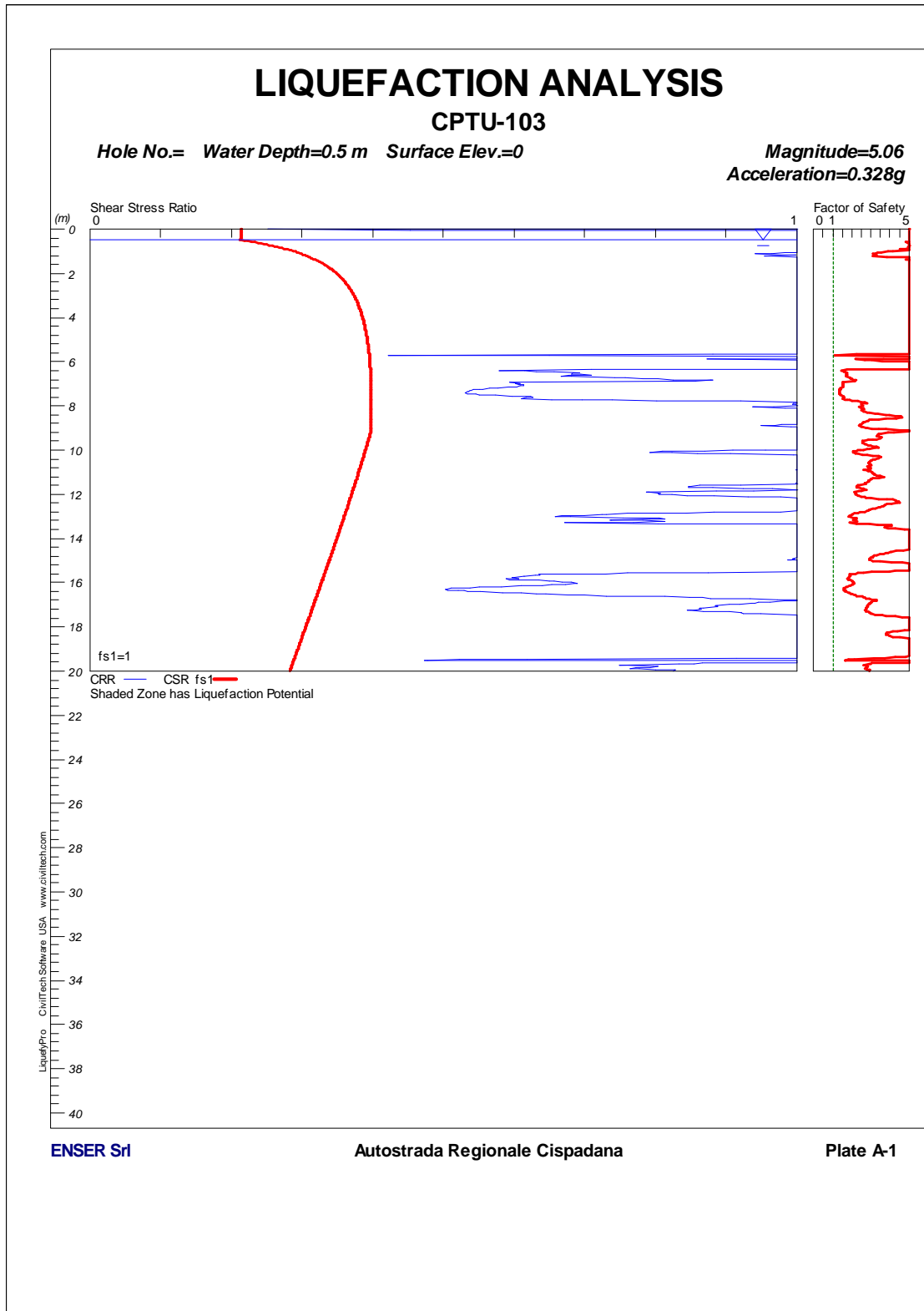


FIGURA 1-64: CPTU103 – VERIFICA A LIQUEFAZIONE.

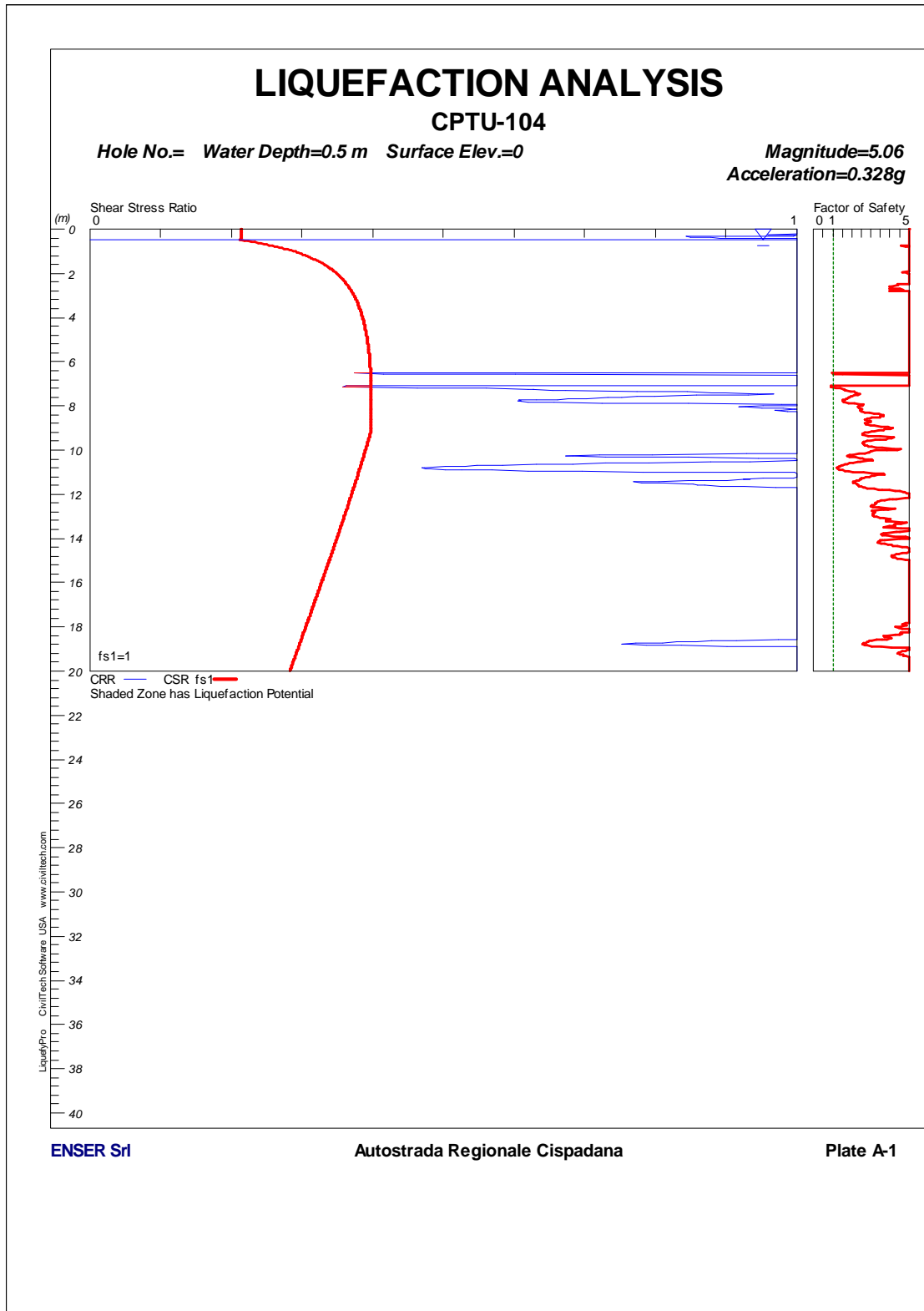


FIGURA 1-65: CPTU104 – VERIFICA A LIQUEFAZIONE.

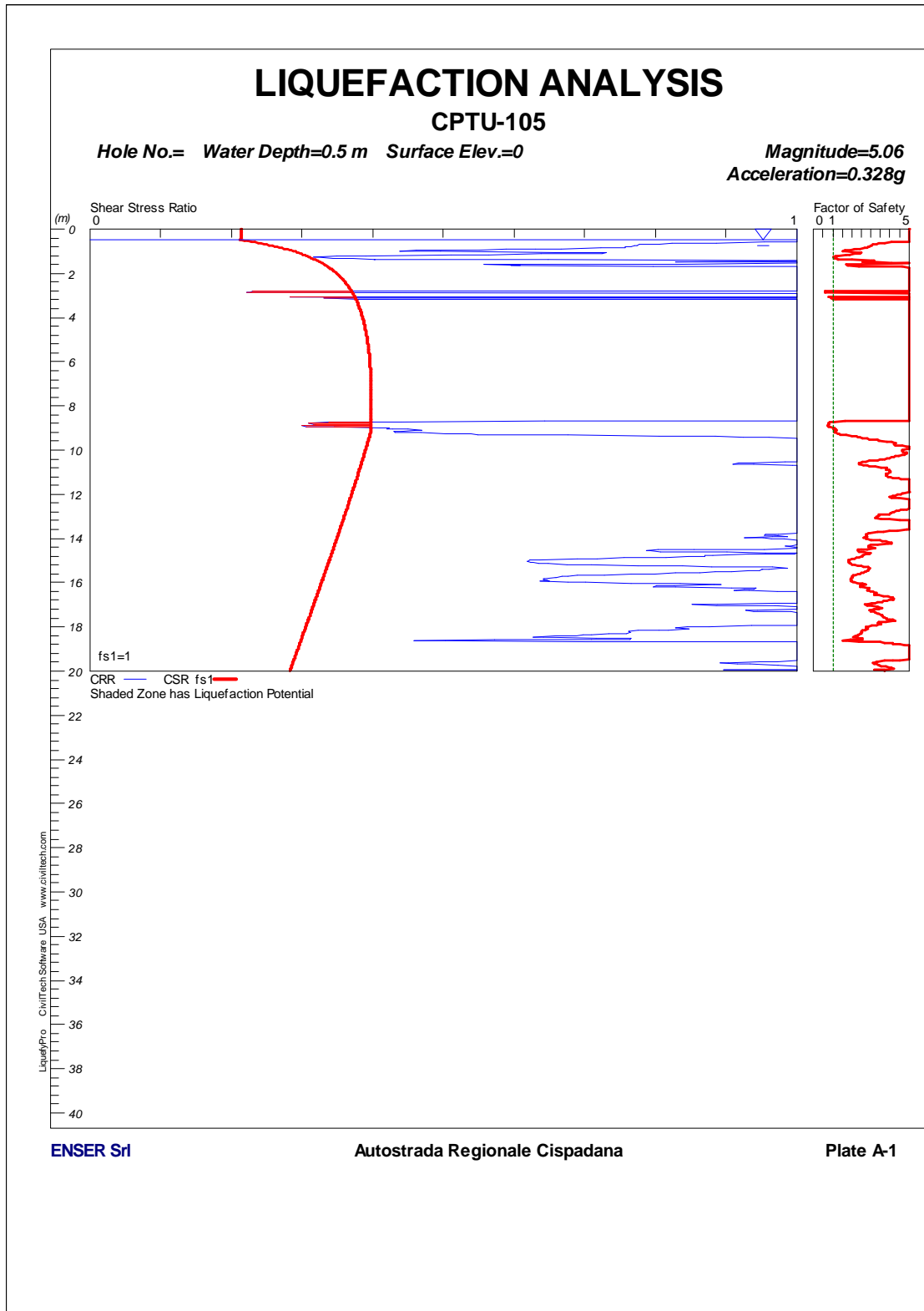


FIGURA 1-66: CPTU105 – VERIFICA A LIQUEFAZIONE.

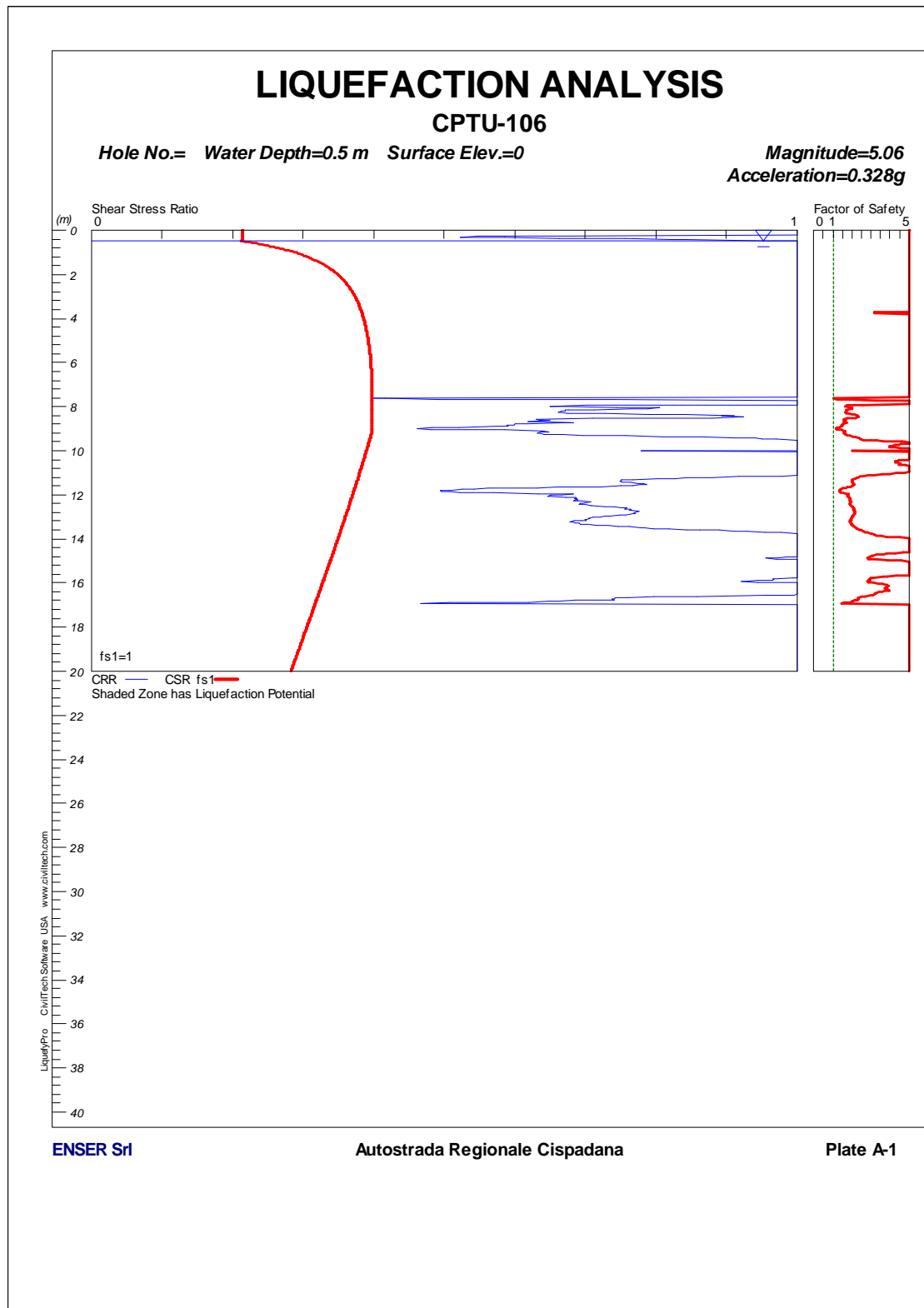


FIGURA 1-67: CPTU106 – VERIFICA A LIQUEFAZIONE.

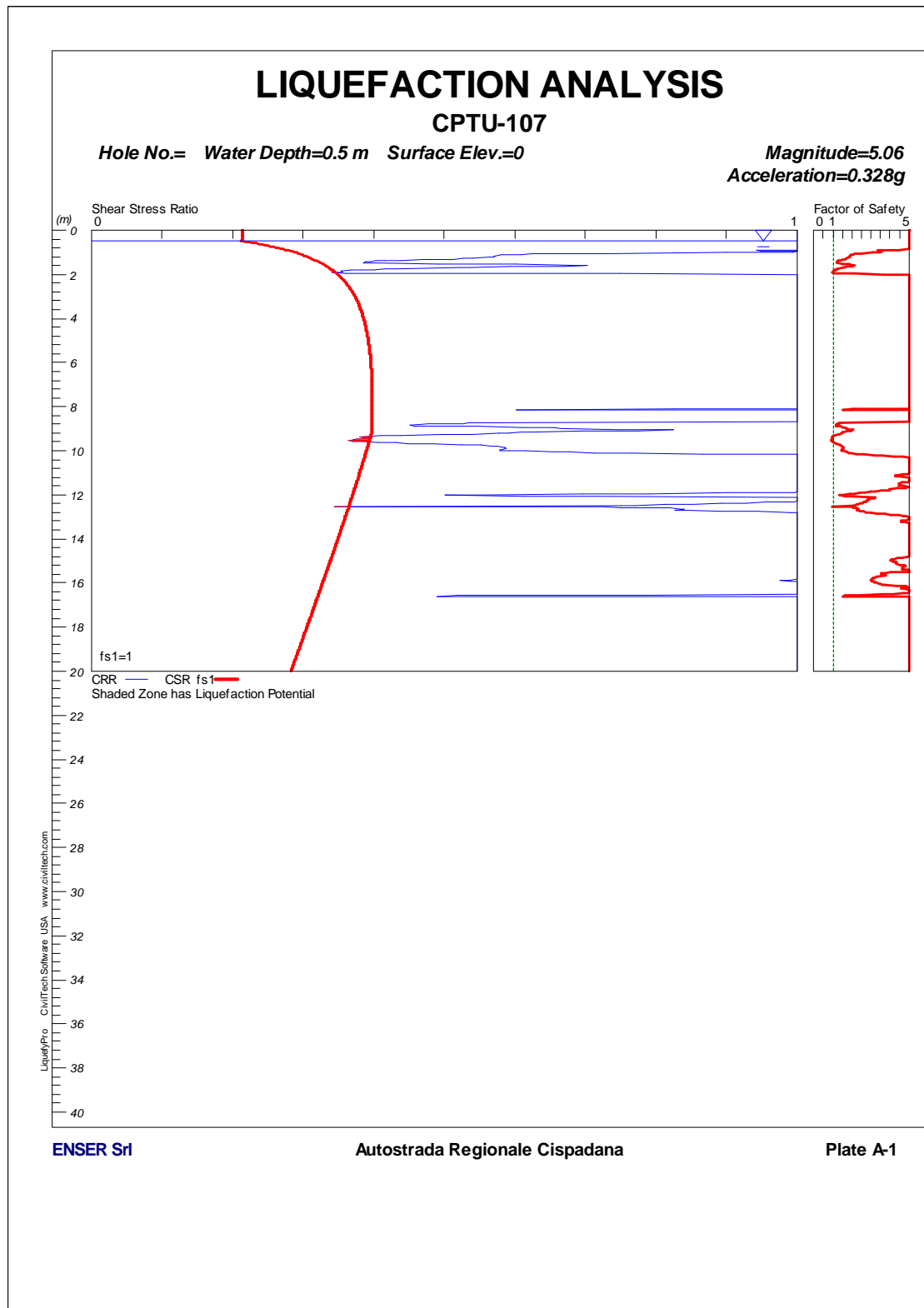


FIGURA 1-68: CPTU107 – VERIFICA A LIQUEFAZIONE.

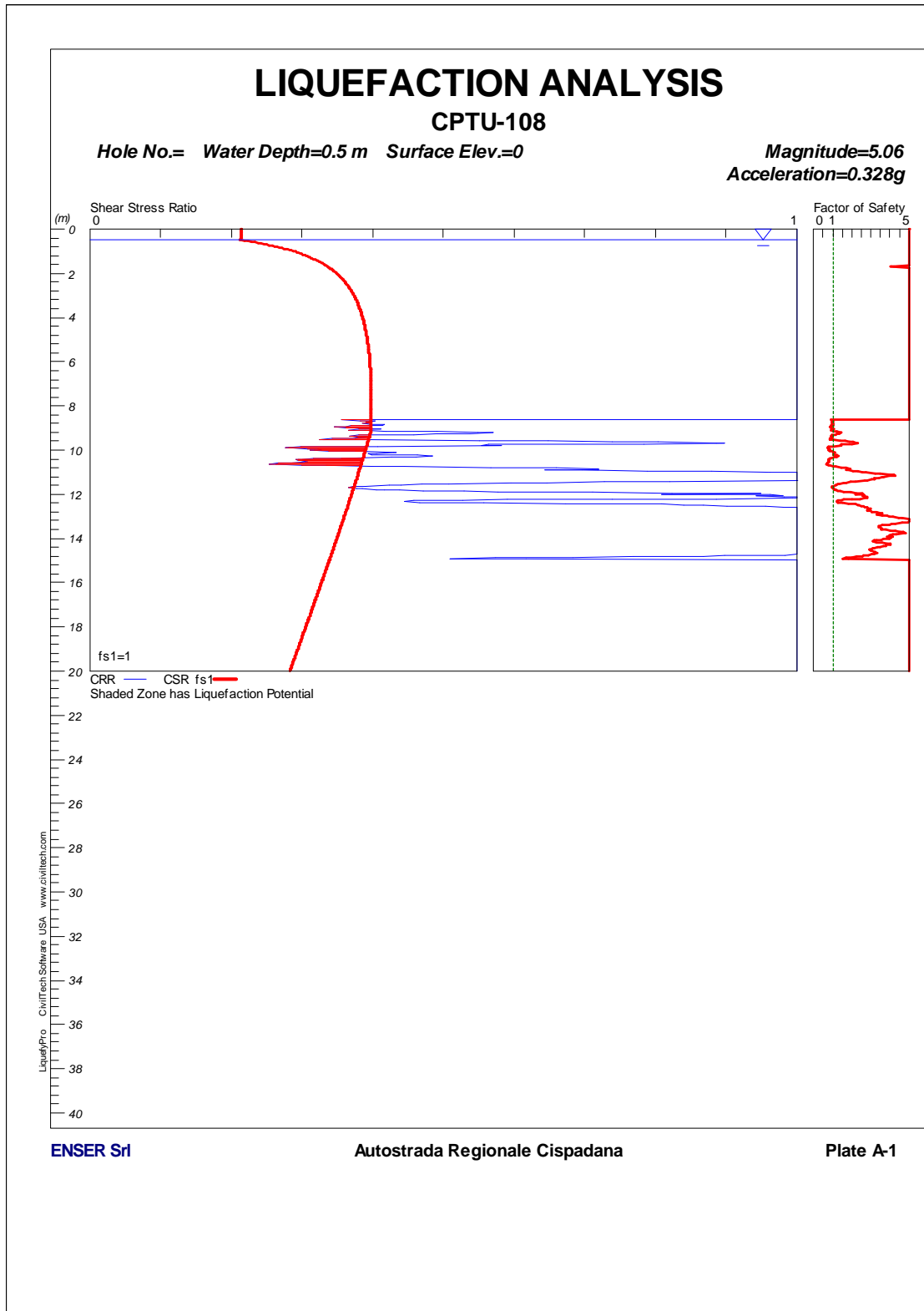


FIGURA 1-69: CPTU108 – VERIFICA A LIQUEFAZIONE.

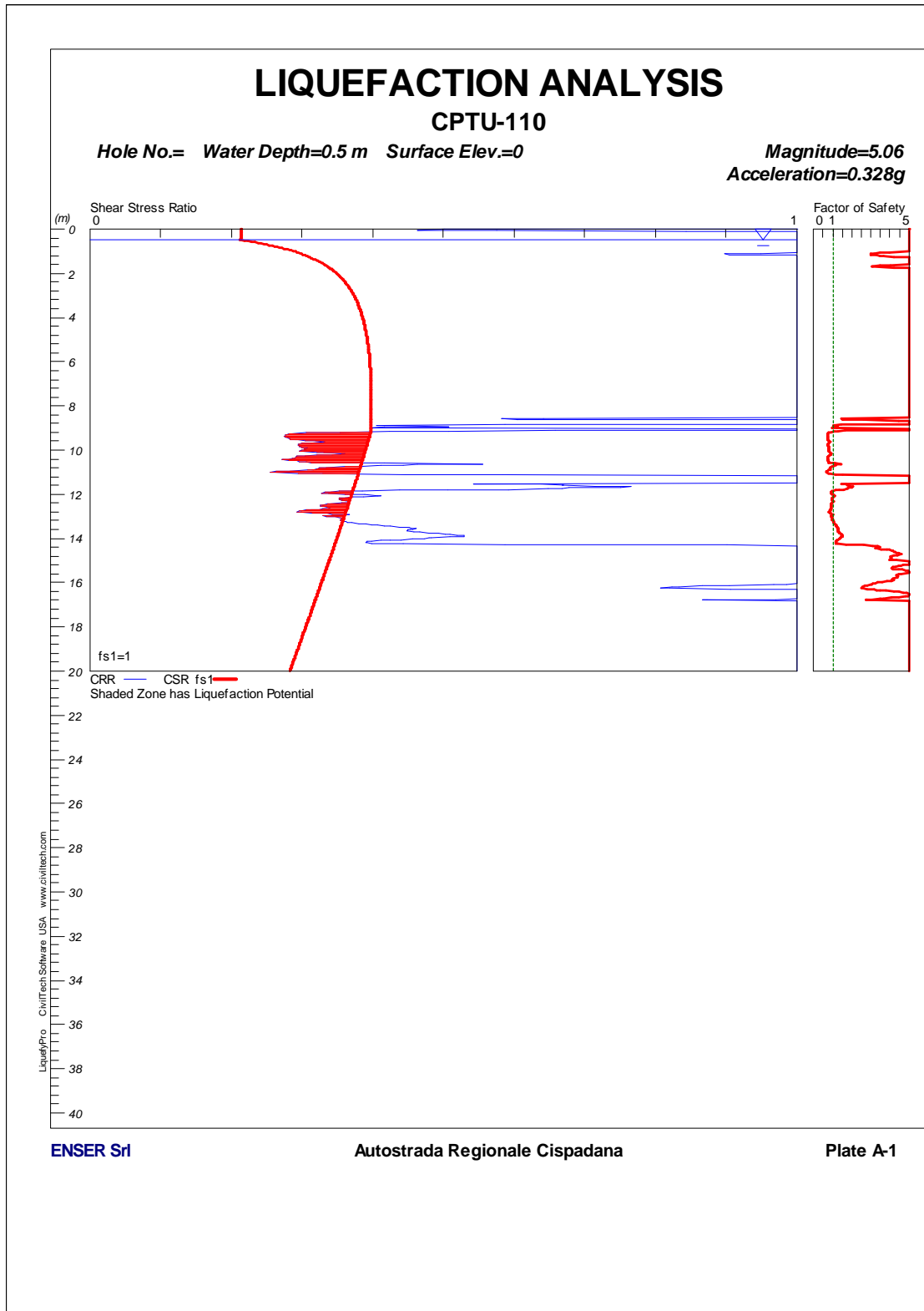


FIGURA 1-70: CPTU110 – VERIFICA A LIQUEFAZIONE.

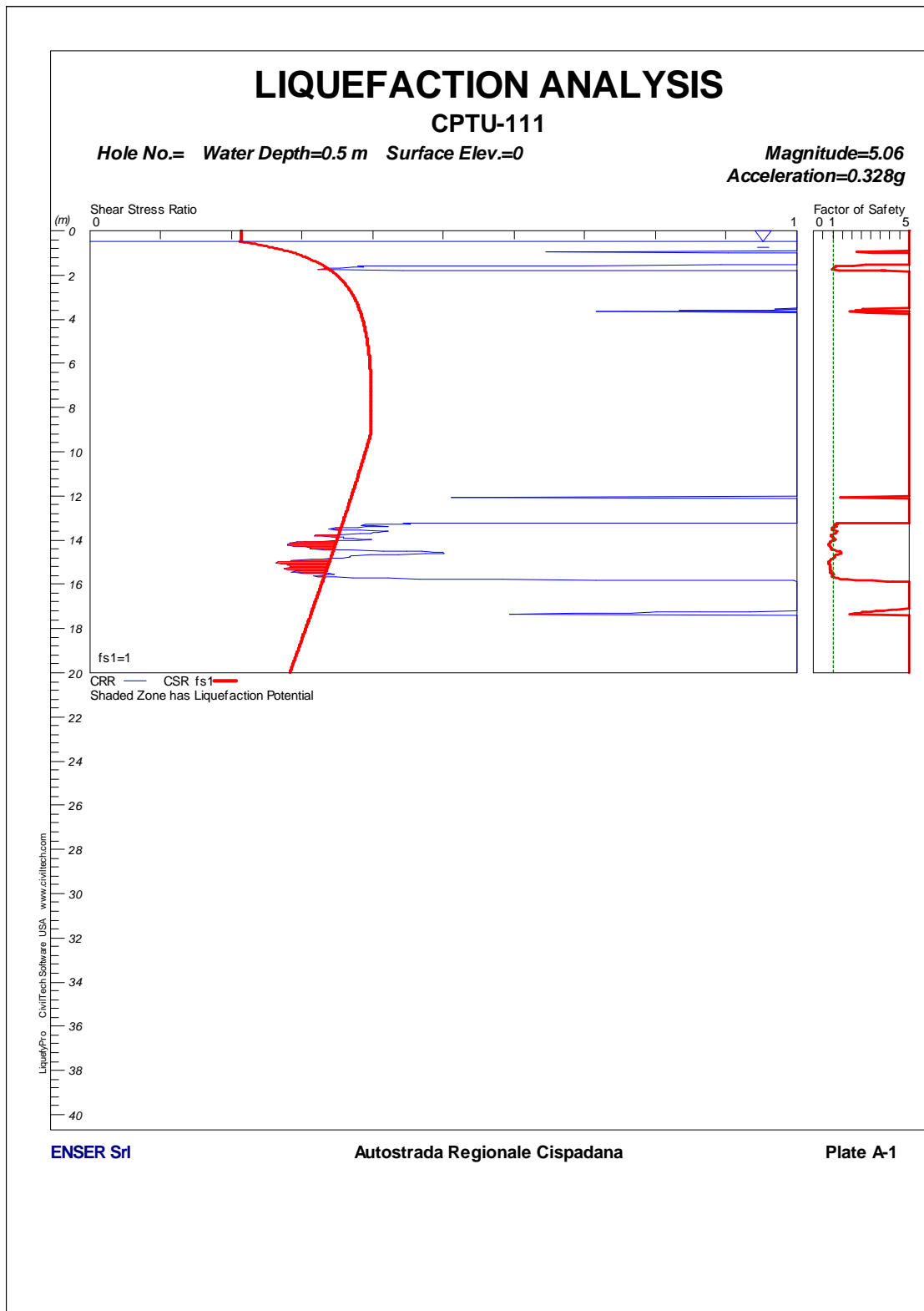


FIGURA 1-71: CPTU111 – VERIFICA A LIQUEFAZIONE.

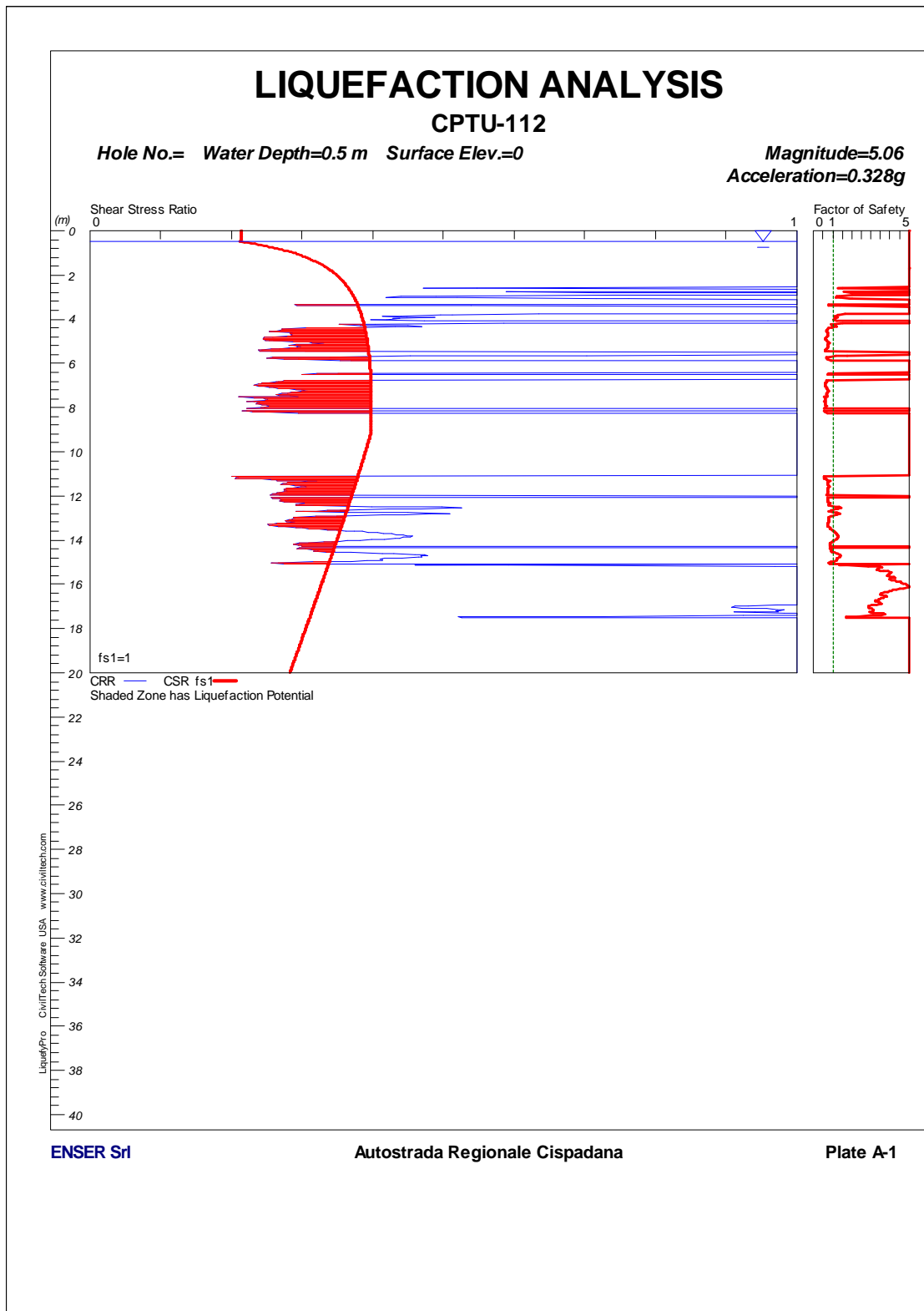
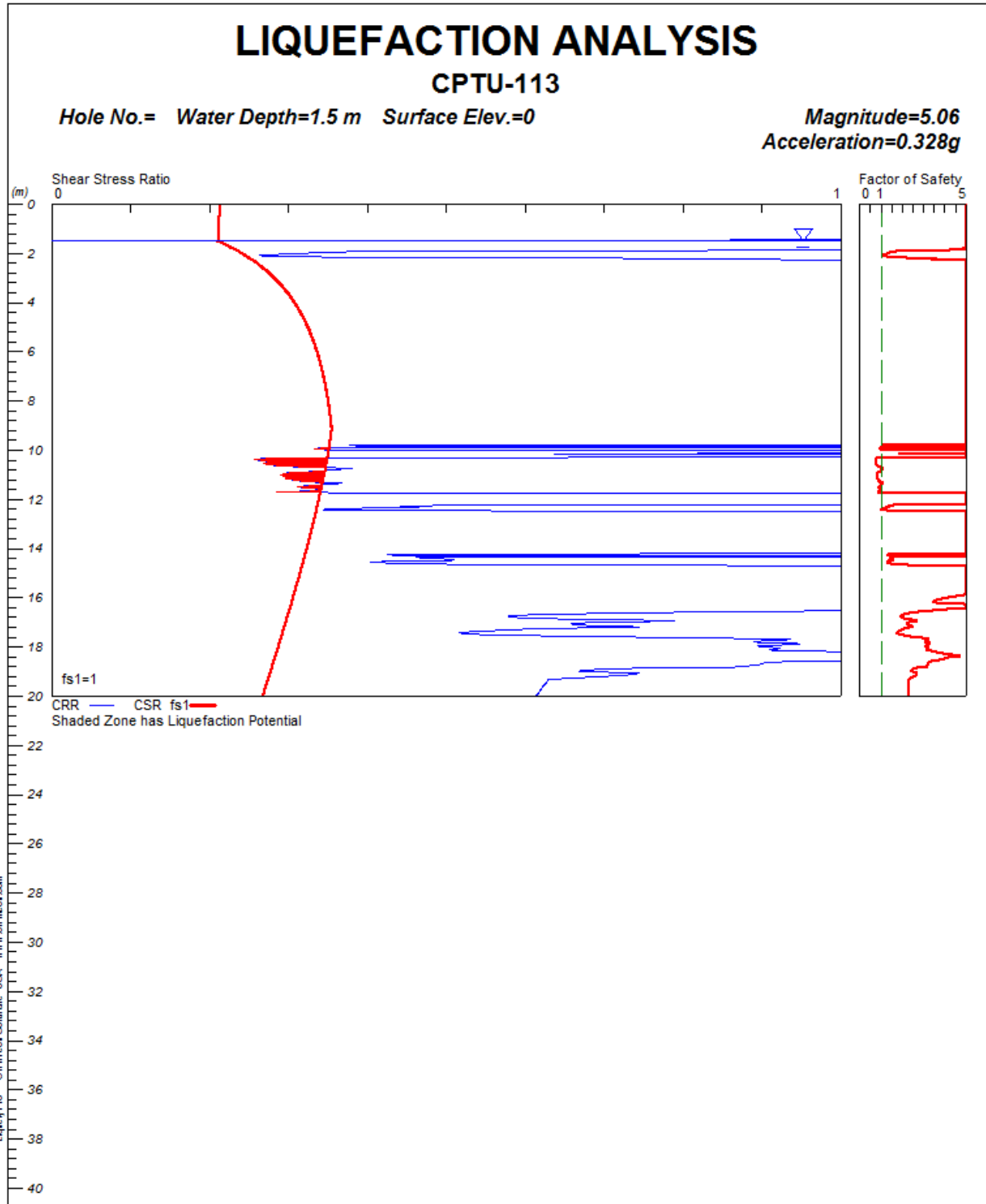


FIGURA 1-72: CPTU112 – VERIFICA A LIQUEFAZIONE.

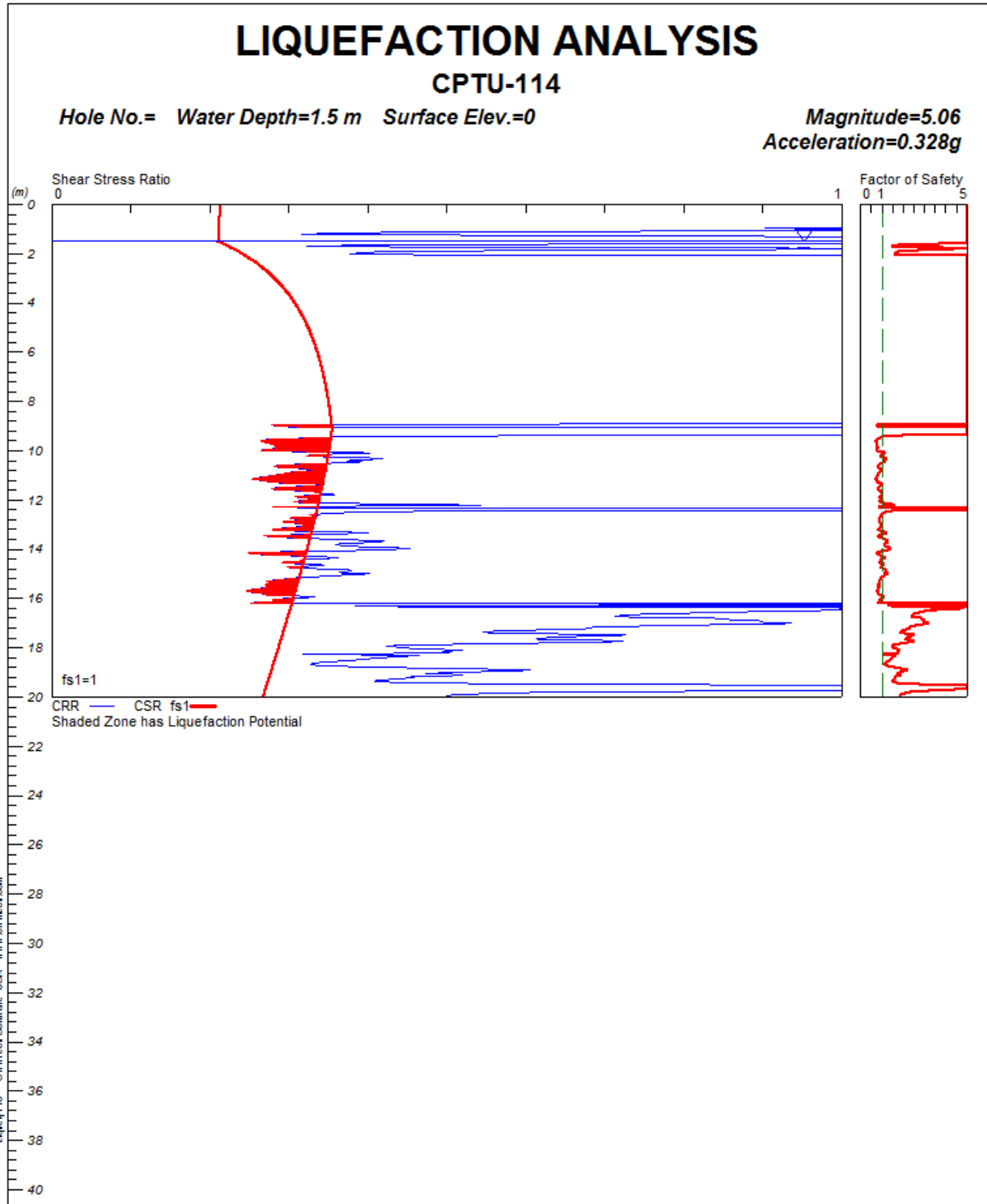


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FIGURA 1-73: CPTU113 – VERIFICA A LIQUEFAZIONE.



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FIGURA 1-74: CPTU114 – VERIFICA A LIQUEFAZIONE.

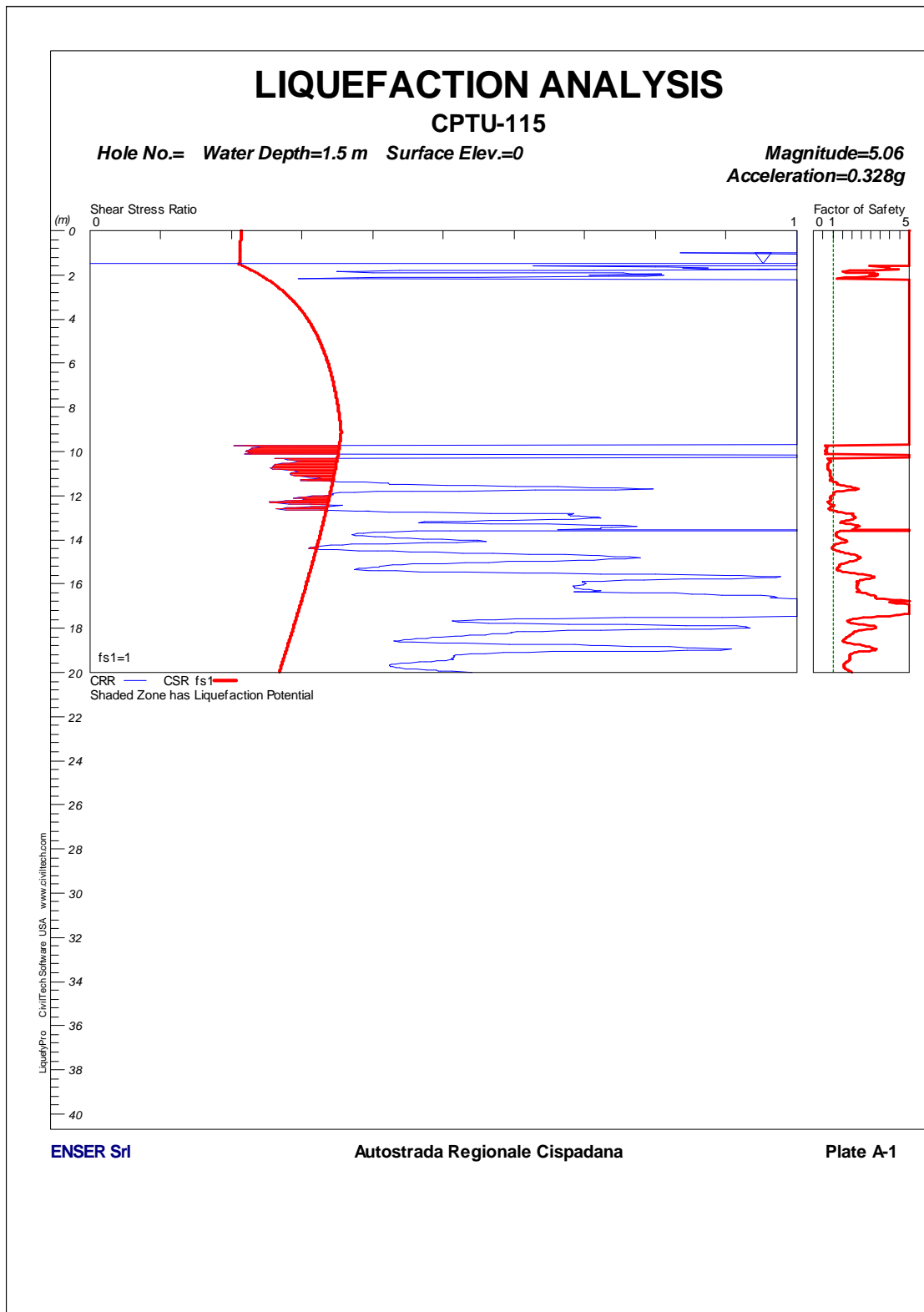


FIGURA 1-75: CPTU115 – VERIFICA A LIQUEFAZIONE.

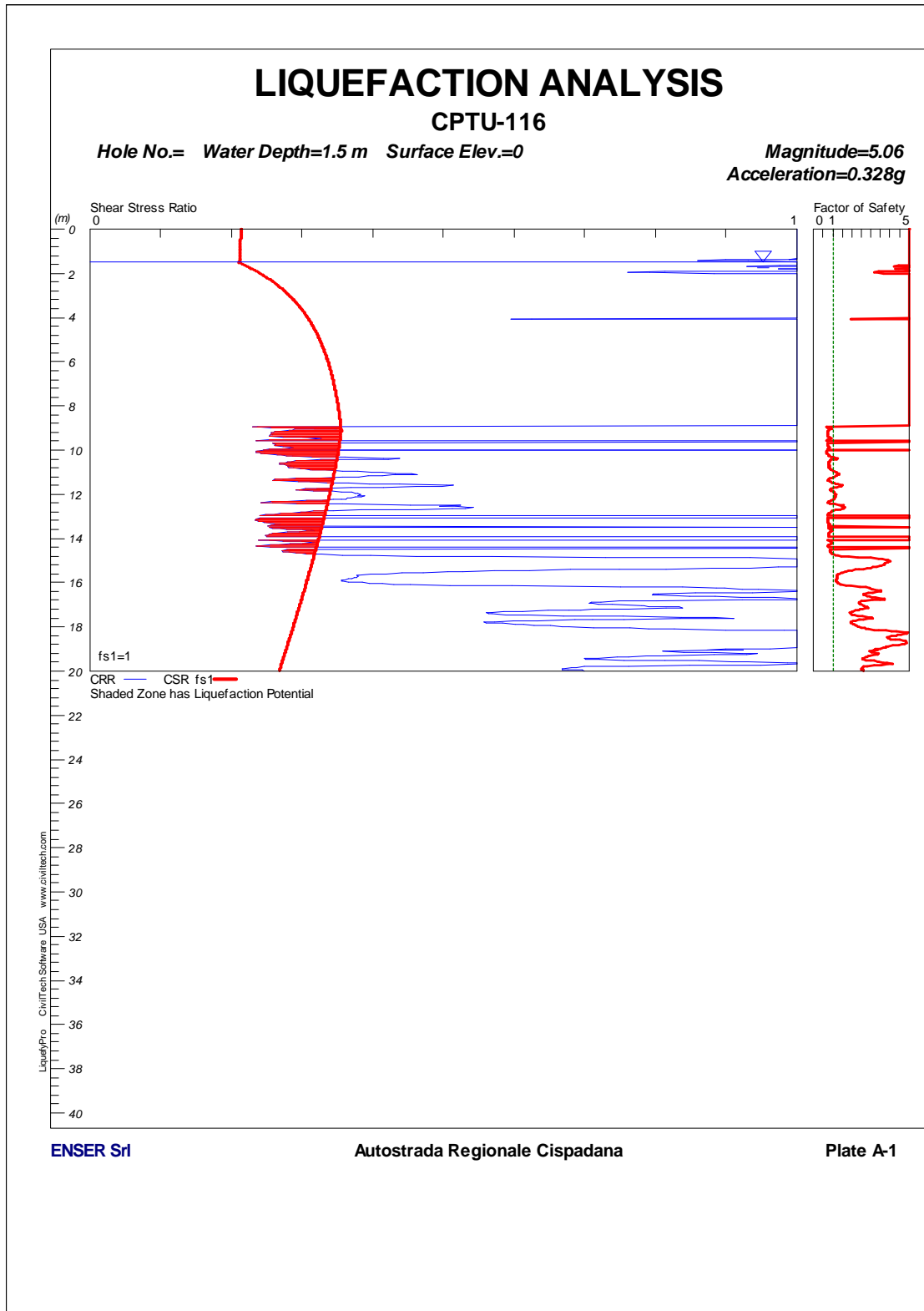


FIGURA 1-76: CPTU116 – VERIFICA A LIQUEFAZIONE.

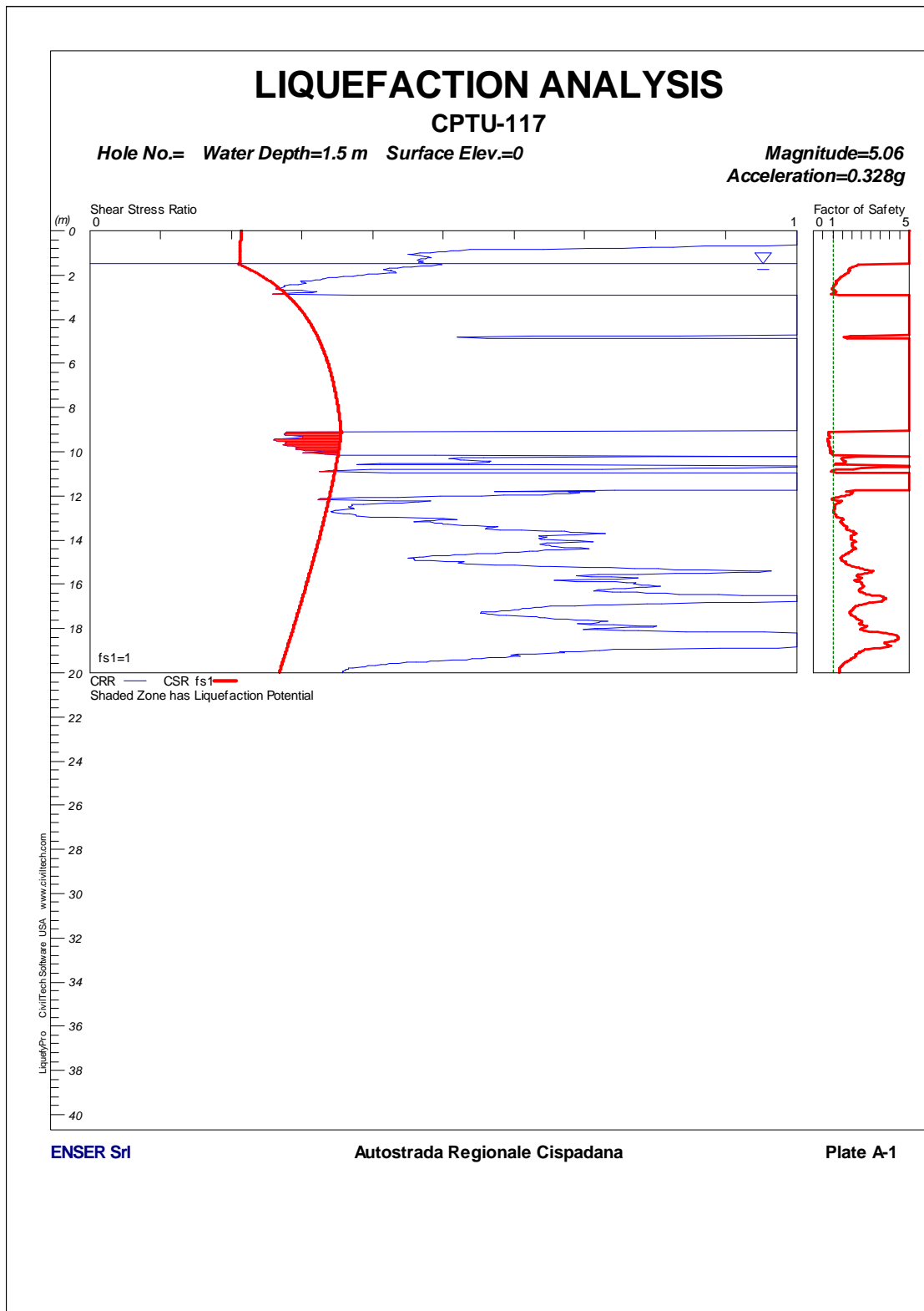


FIGURA 1-77: CPTU117 – VERIFICA A LIQUEFAZIONE.

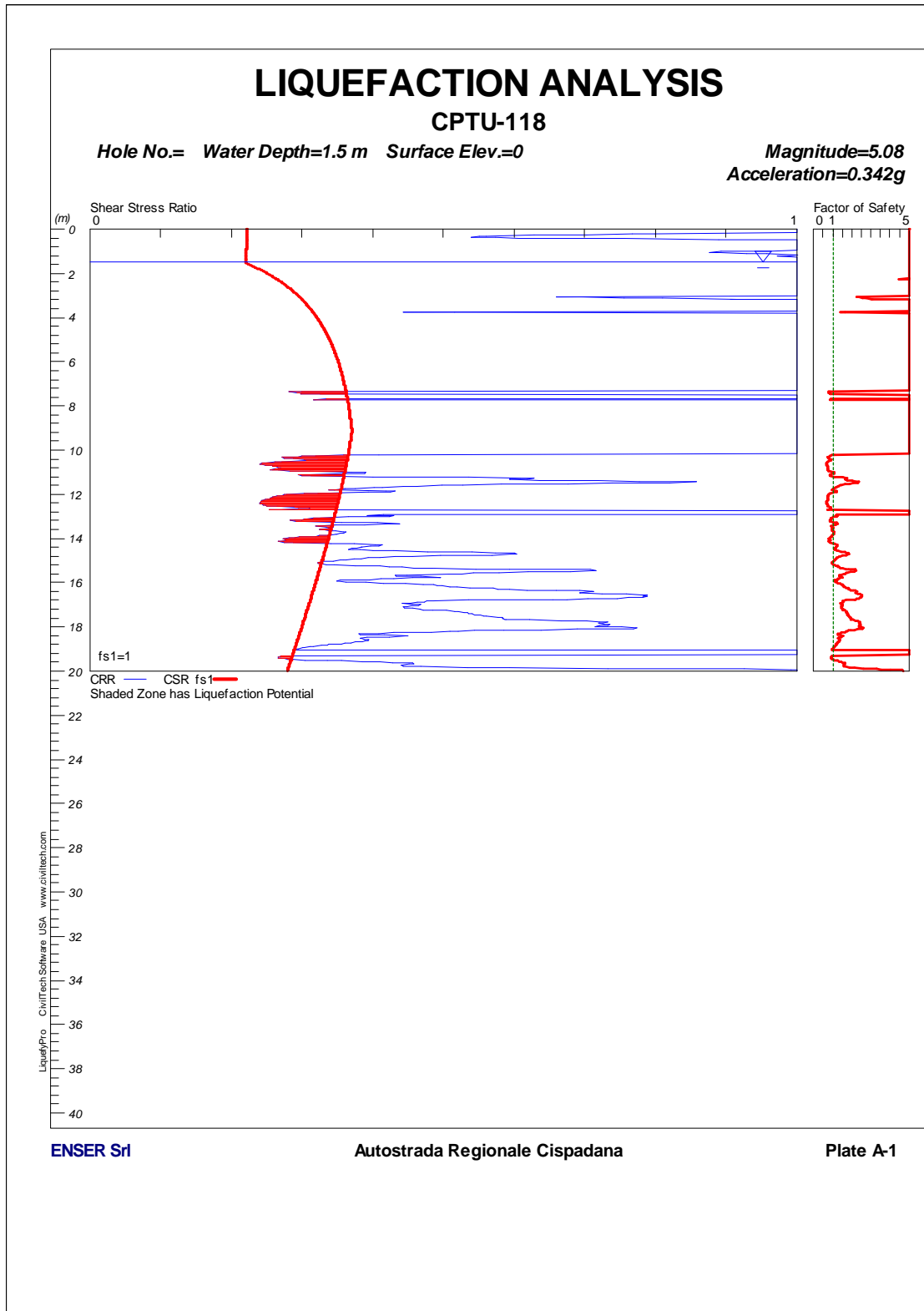


FIGURA 1-78: CPTU118 – VERIFICA A LIQUEFAZIONE.

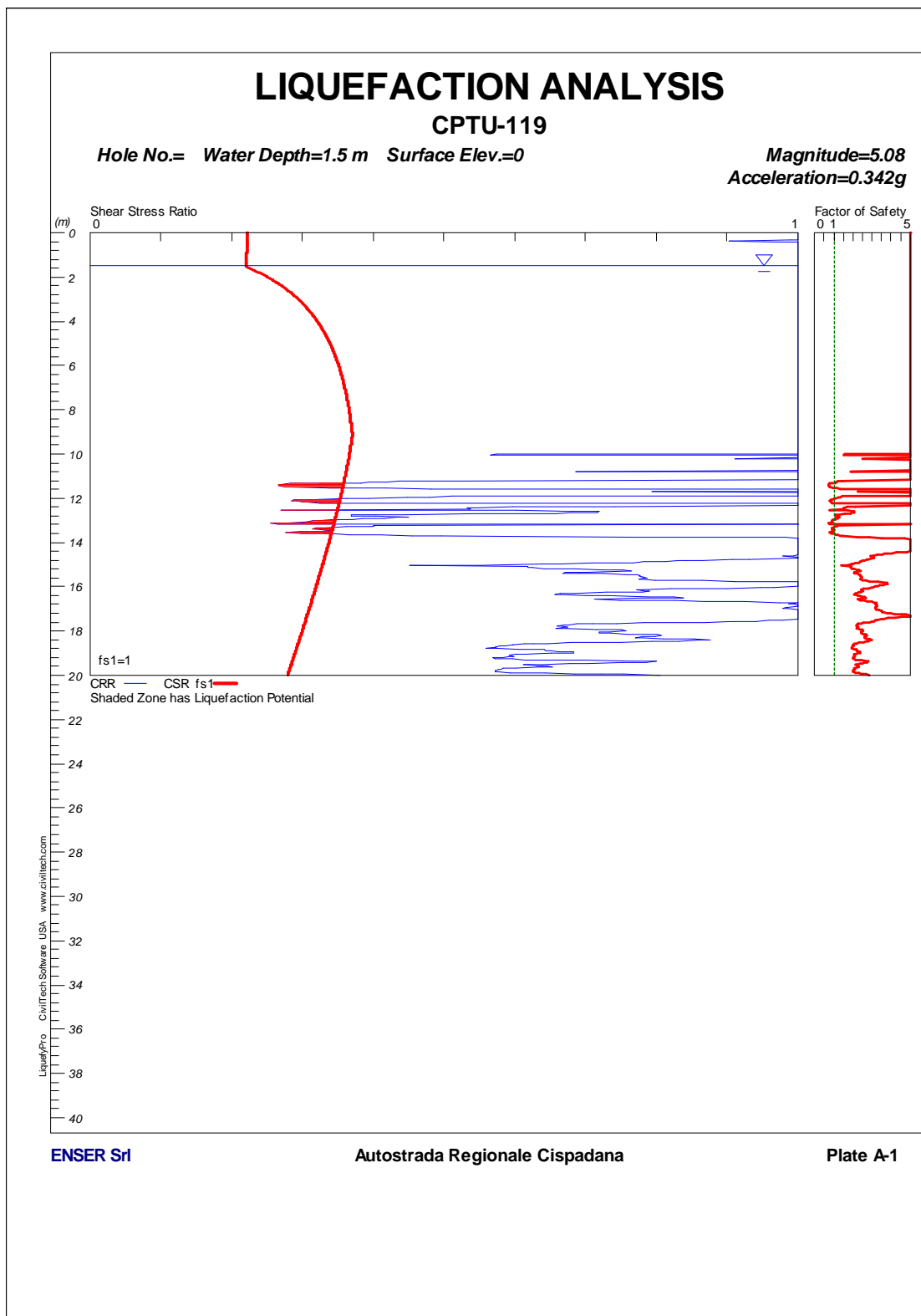


FIGURA 1-79: CPTU119 – VERIFICA A LIQUEFAZIONE.

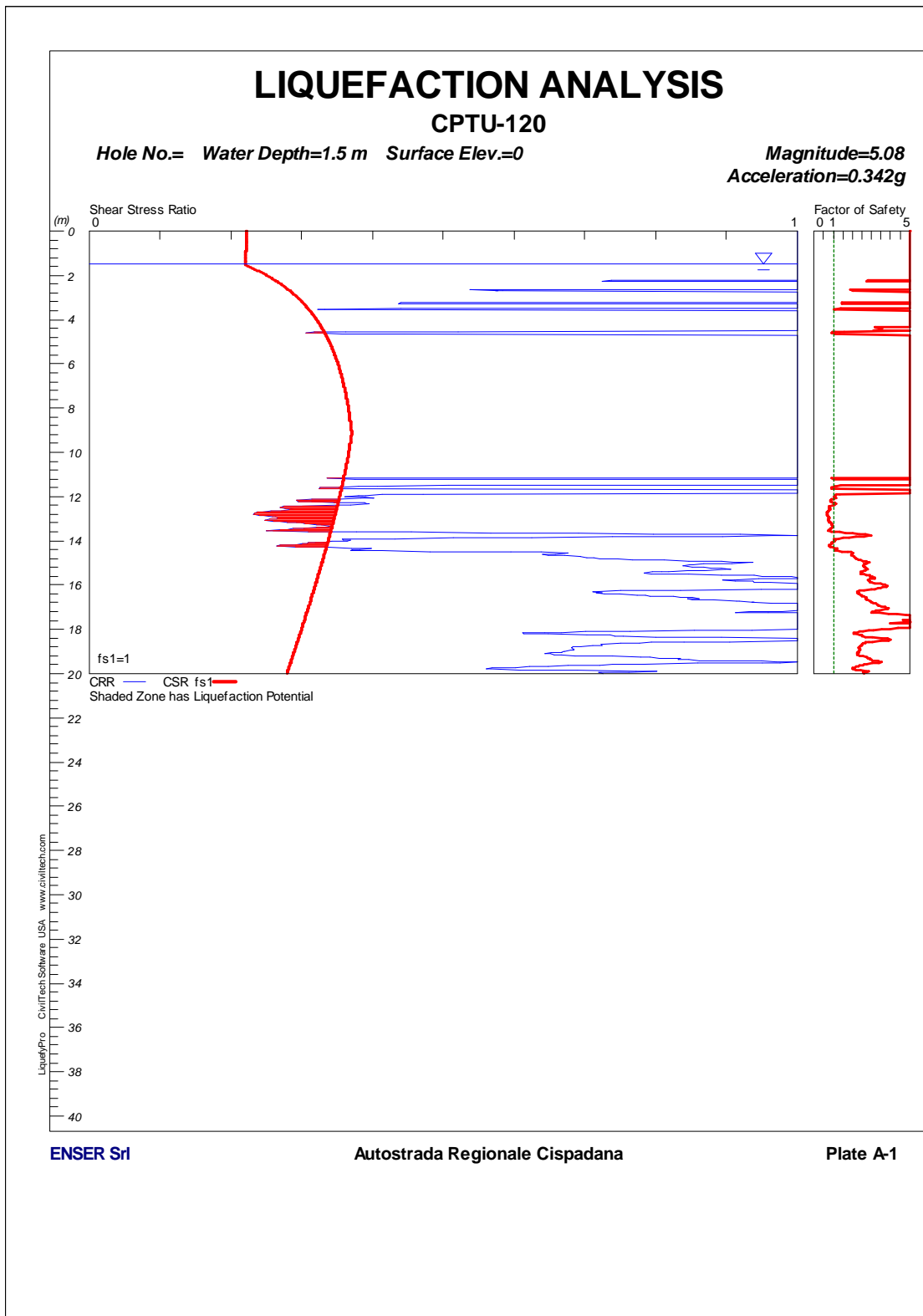


FIGURA 1-80: CPTU120 – VERIFICA A LIQUEFAZIONE.

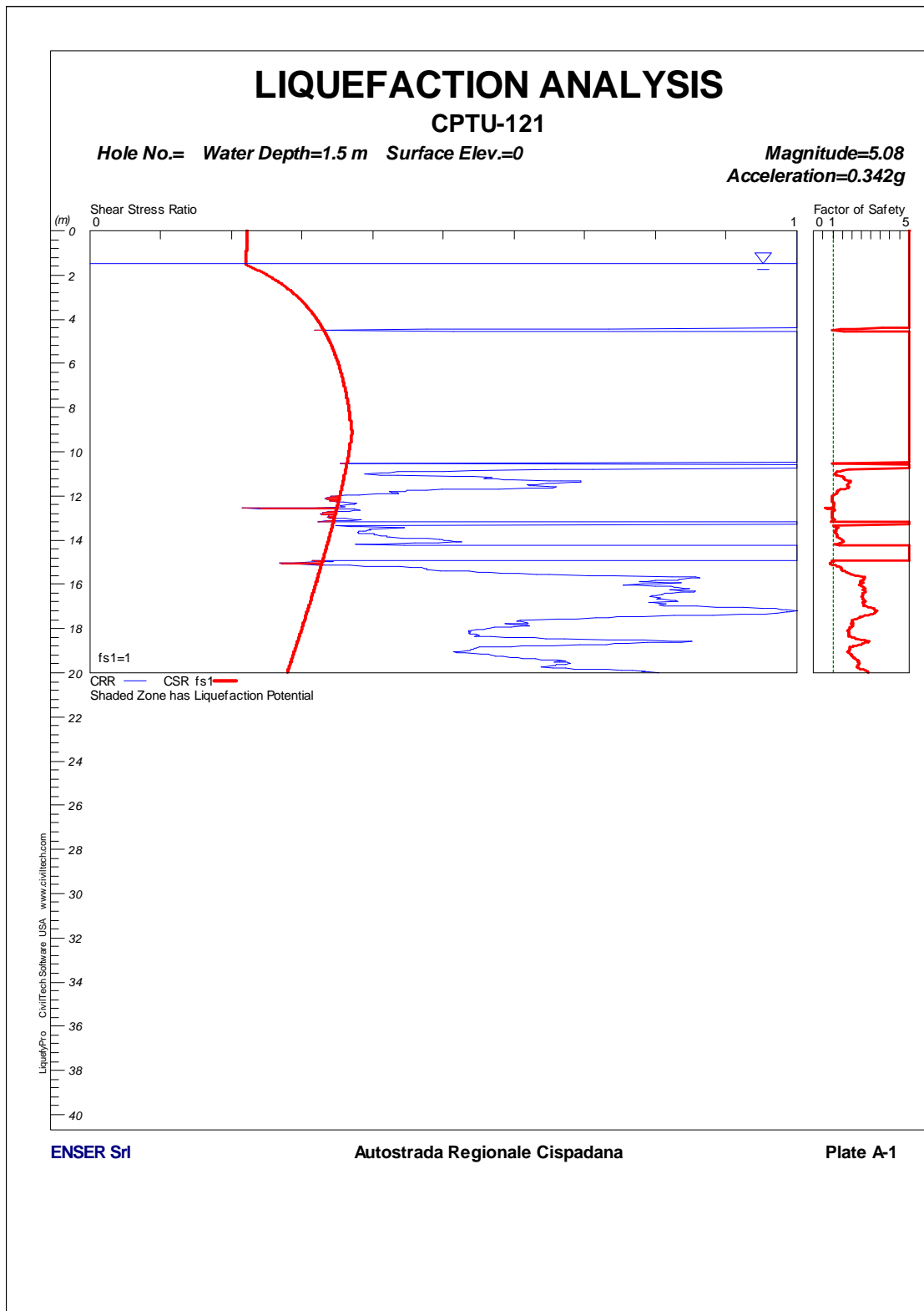


FIGURA 1-81: CPTU121 – VERIFICA A LIQUEFAZIONE.

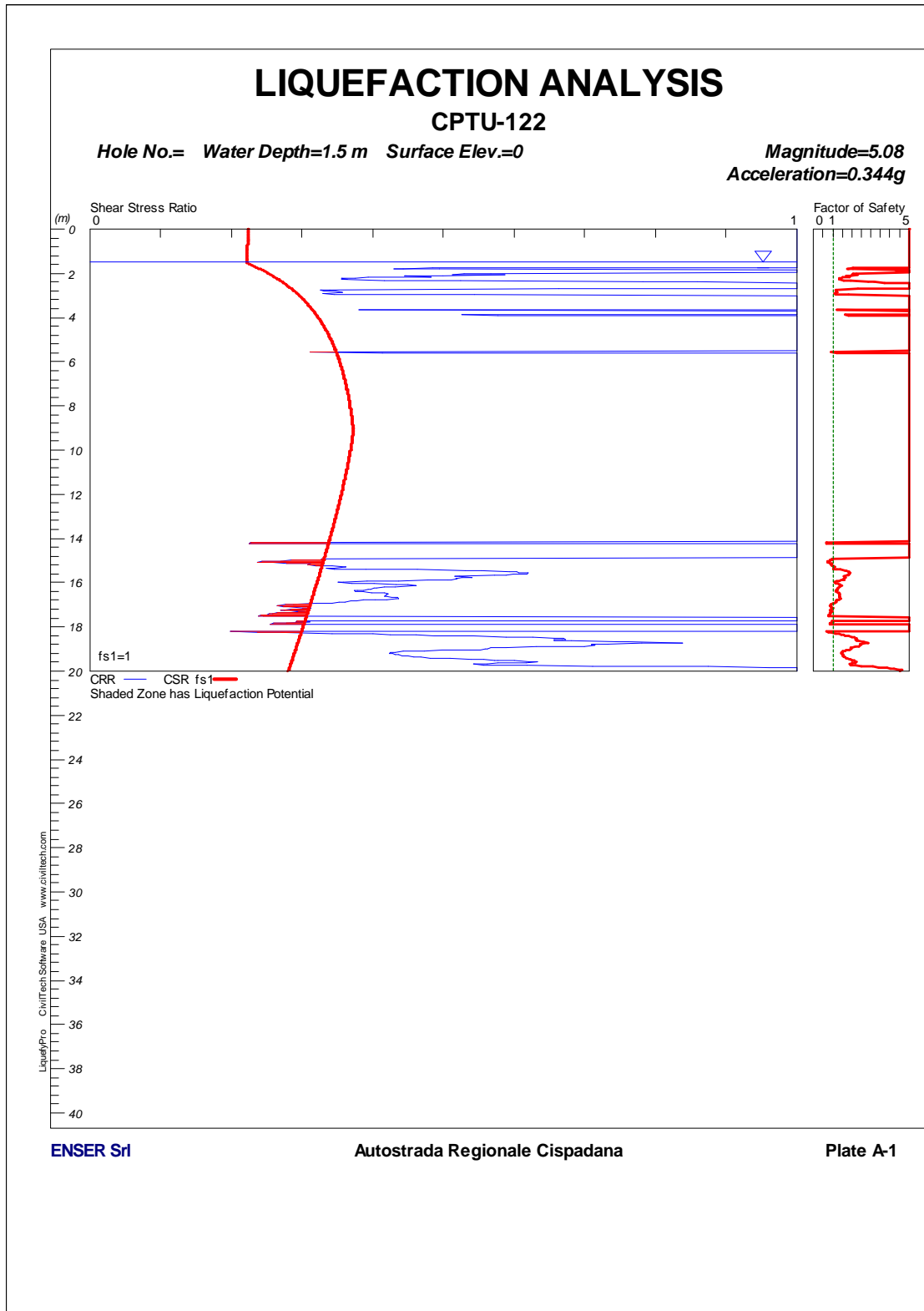


FIGURA 1-82: CPTU122 – VERIFICA A LIQUEFAZIONE.

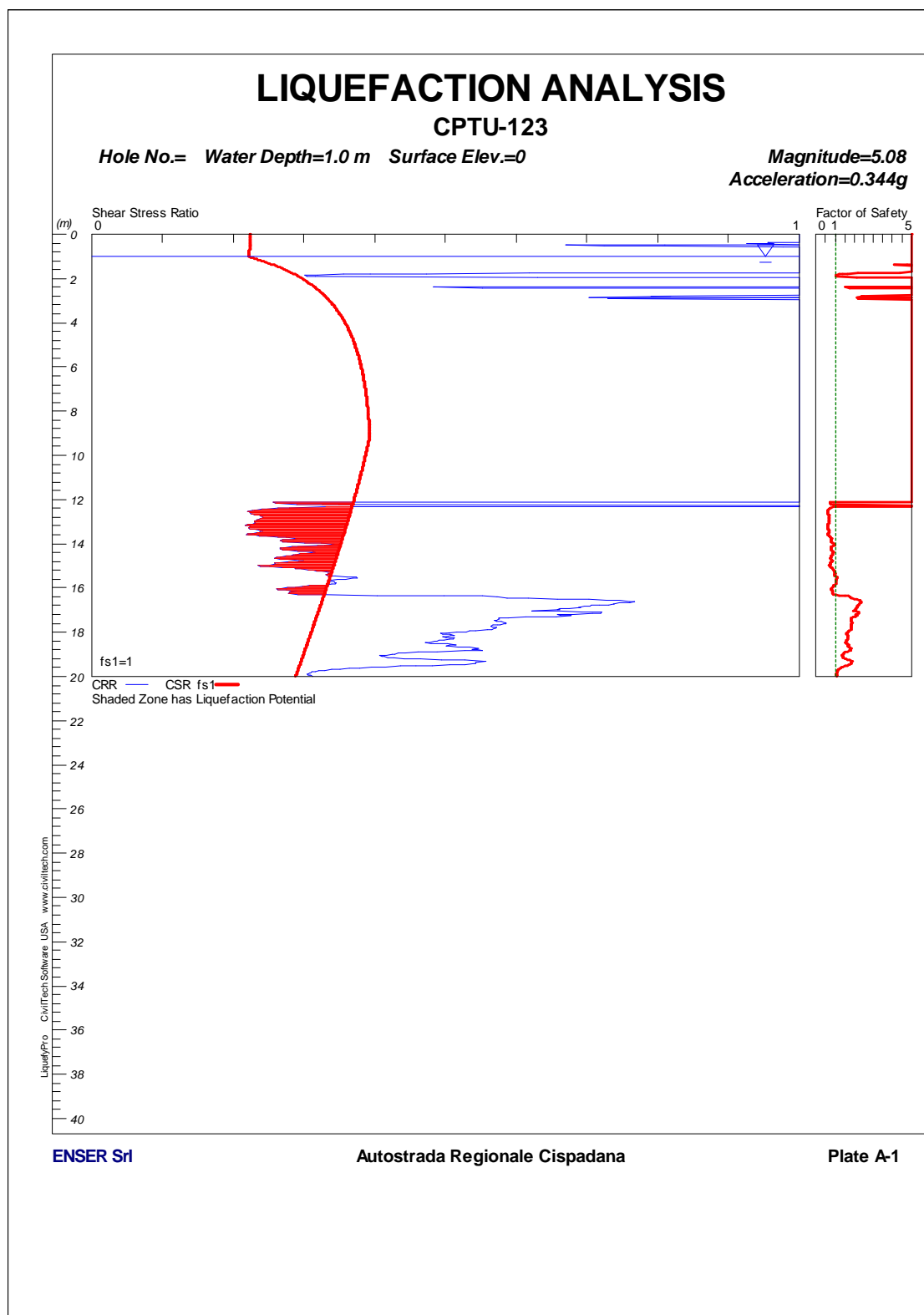


FIGURA 1-83: CPTU123 – VERIFICA A LIQUEFAZIONE.

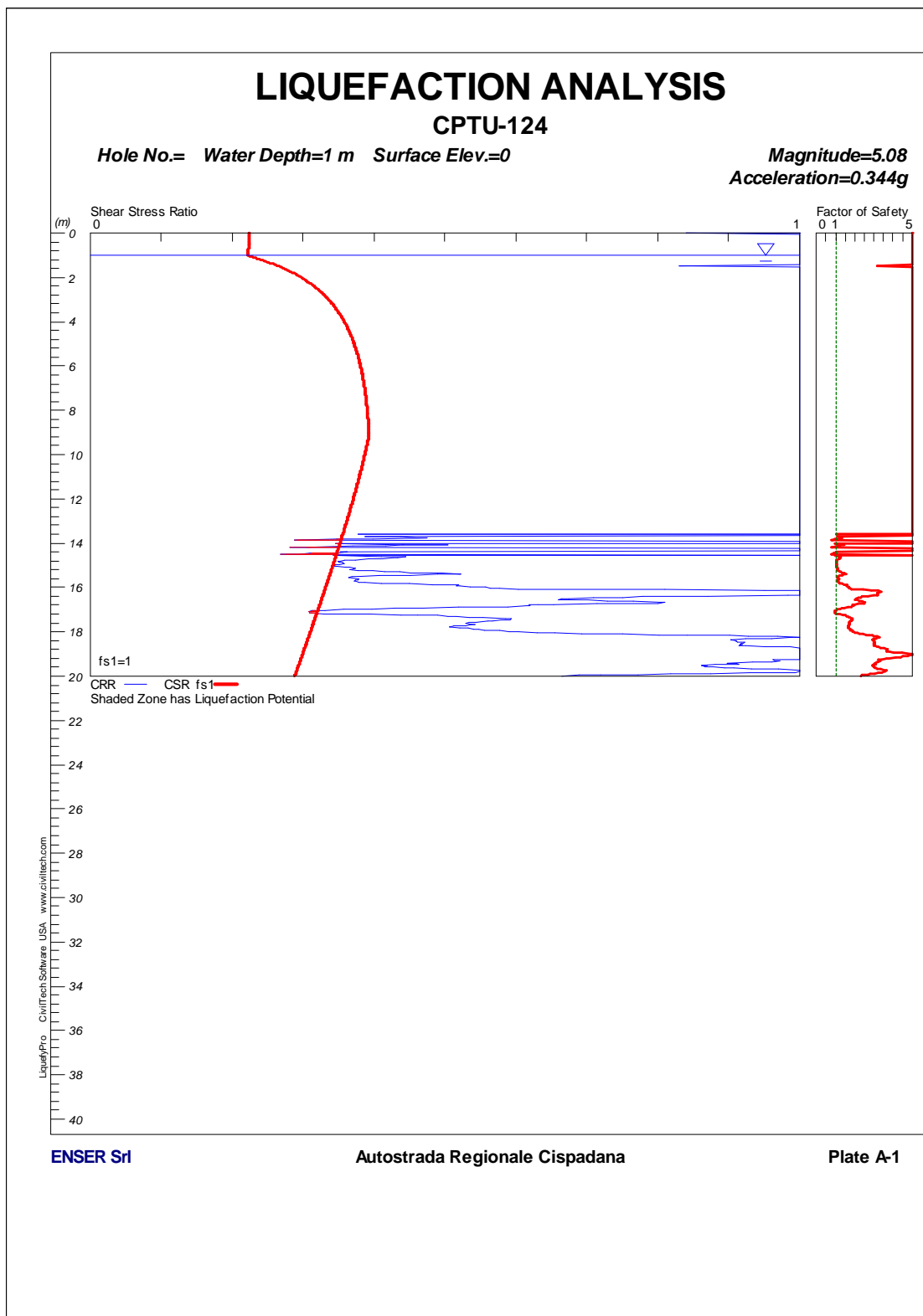


FIGURA 1-84: CPTU124 – VERIFICA A LIQUEFAZIONE.

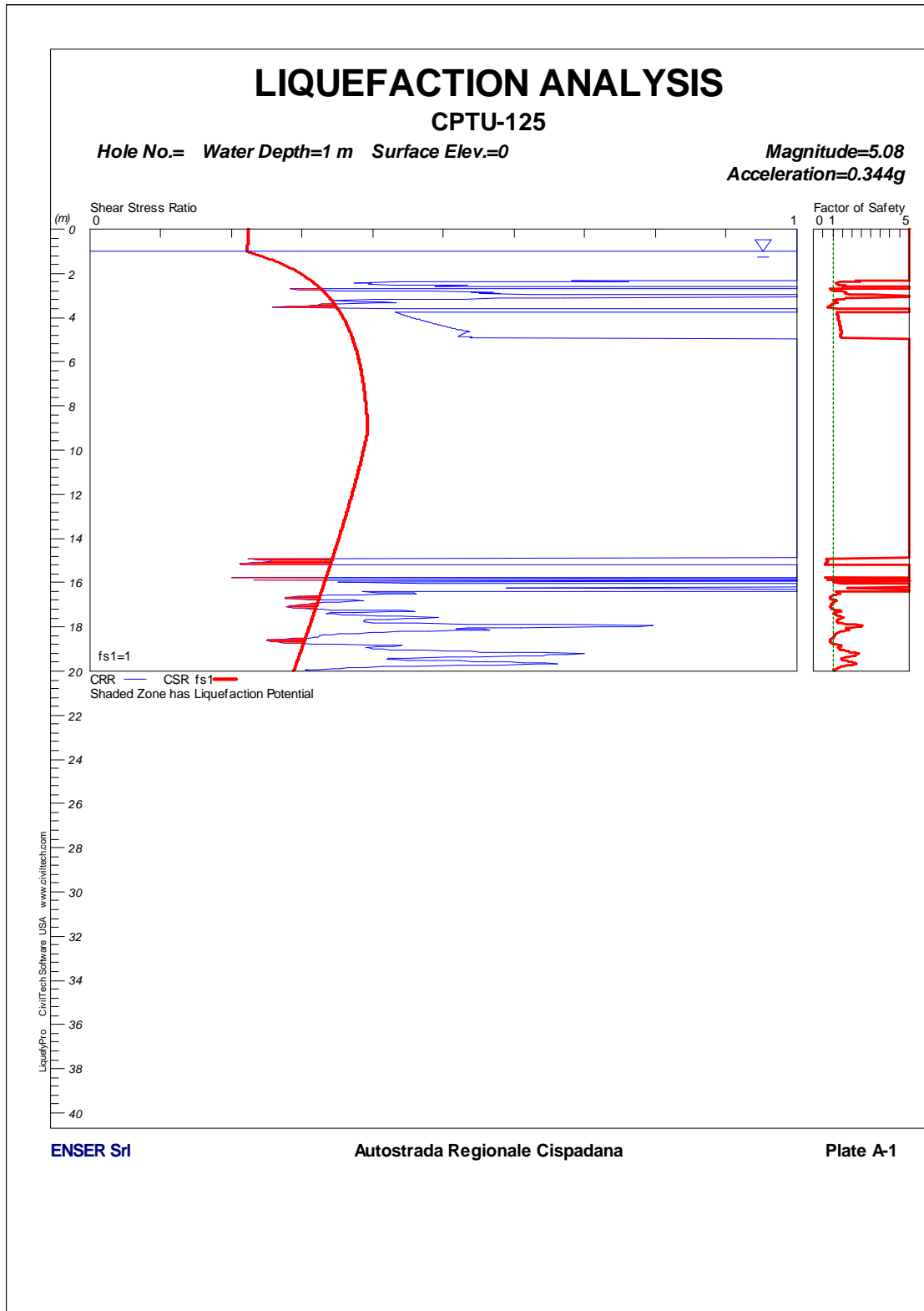


FIGURA 1-85: CPTU125 – VERIFICA A LIQUEFAZIONE.

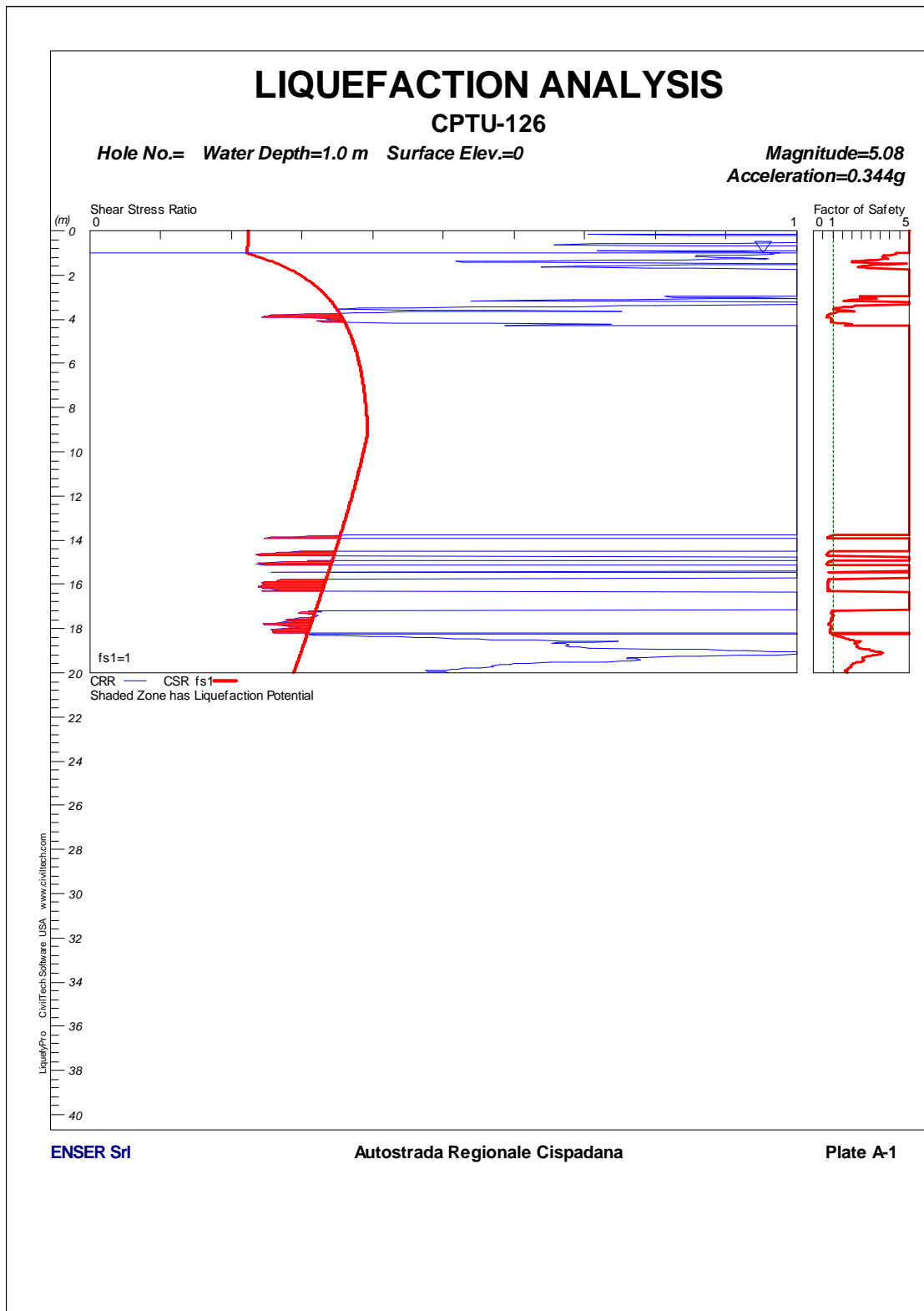


FIGURA 1-86: CPTU126 – VERIFICA A LIQUEFAZIONE.

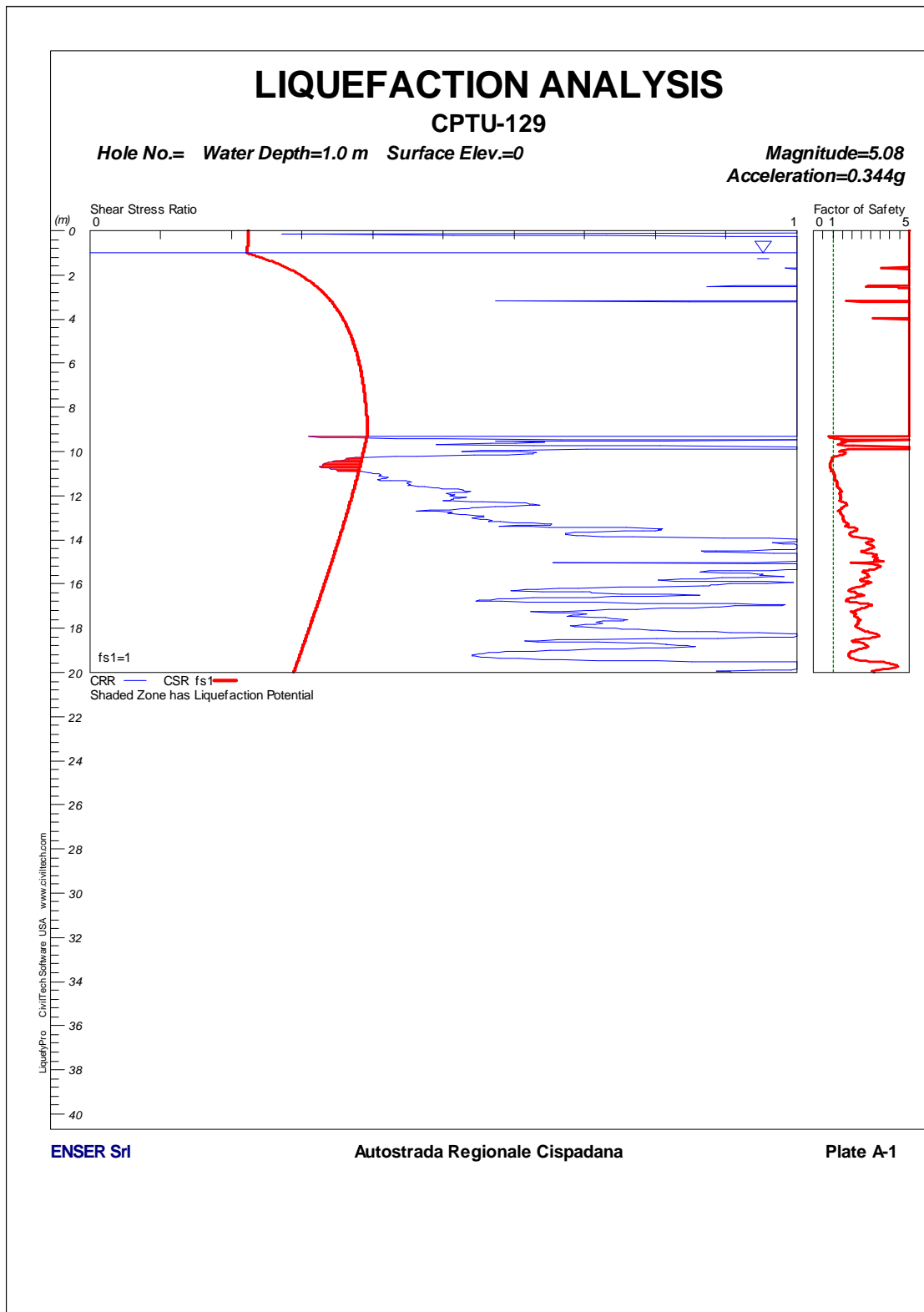


FIGURA 1-87: CPTU129 – VERIFICA A LIQUEFAZIONE.

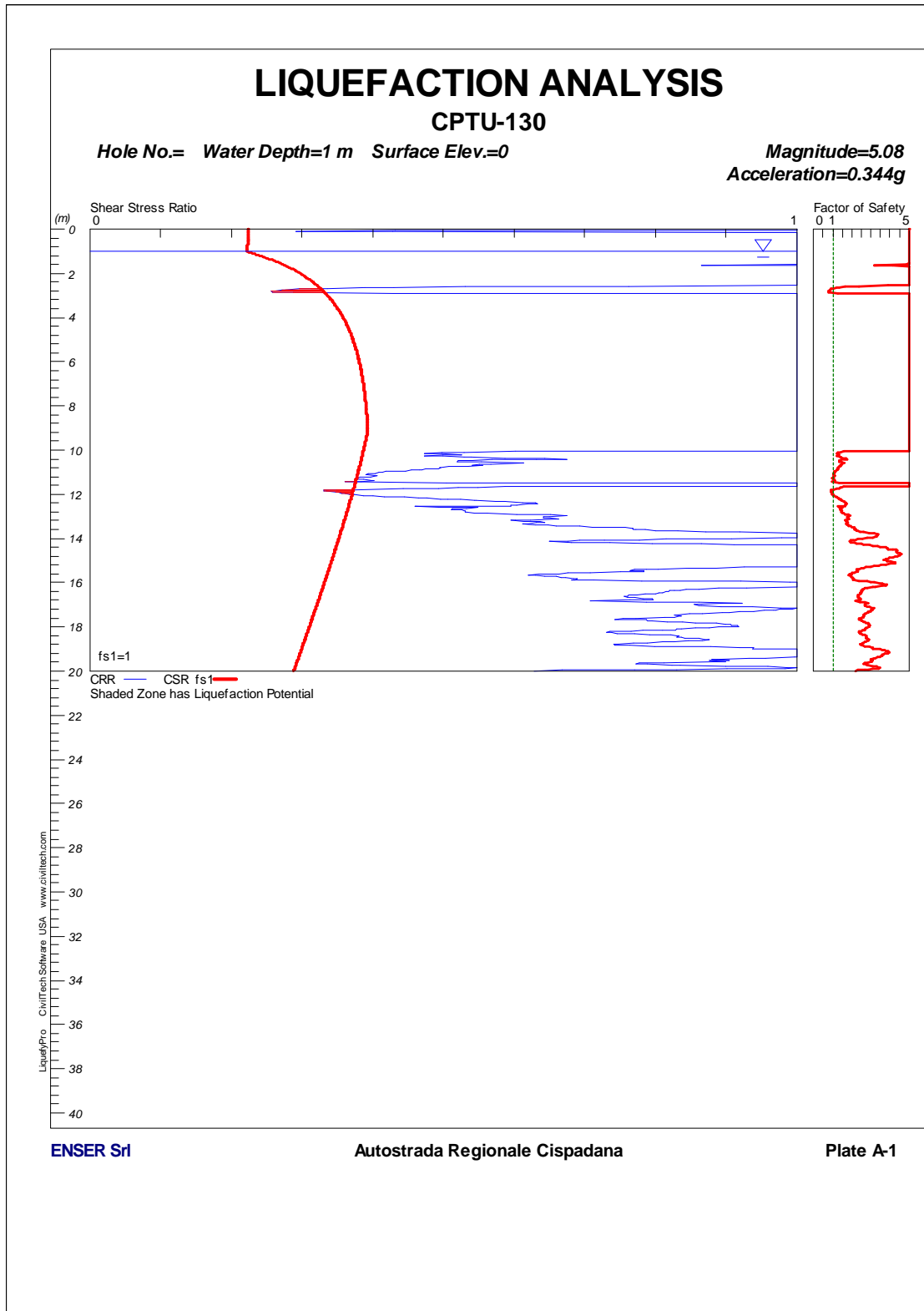


FIGURA 1-88: CPTU130 – VERIFICA A LIQUEFAZIONE.

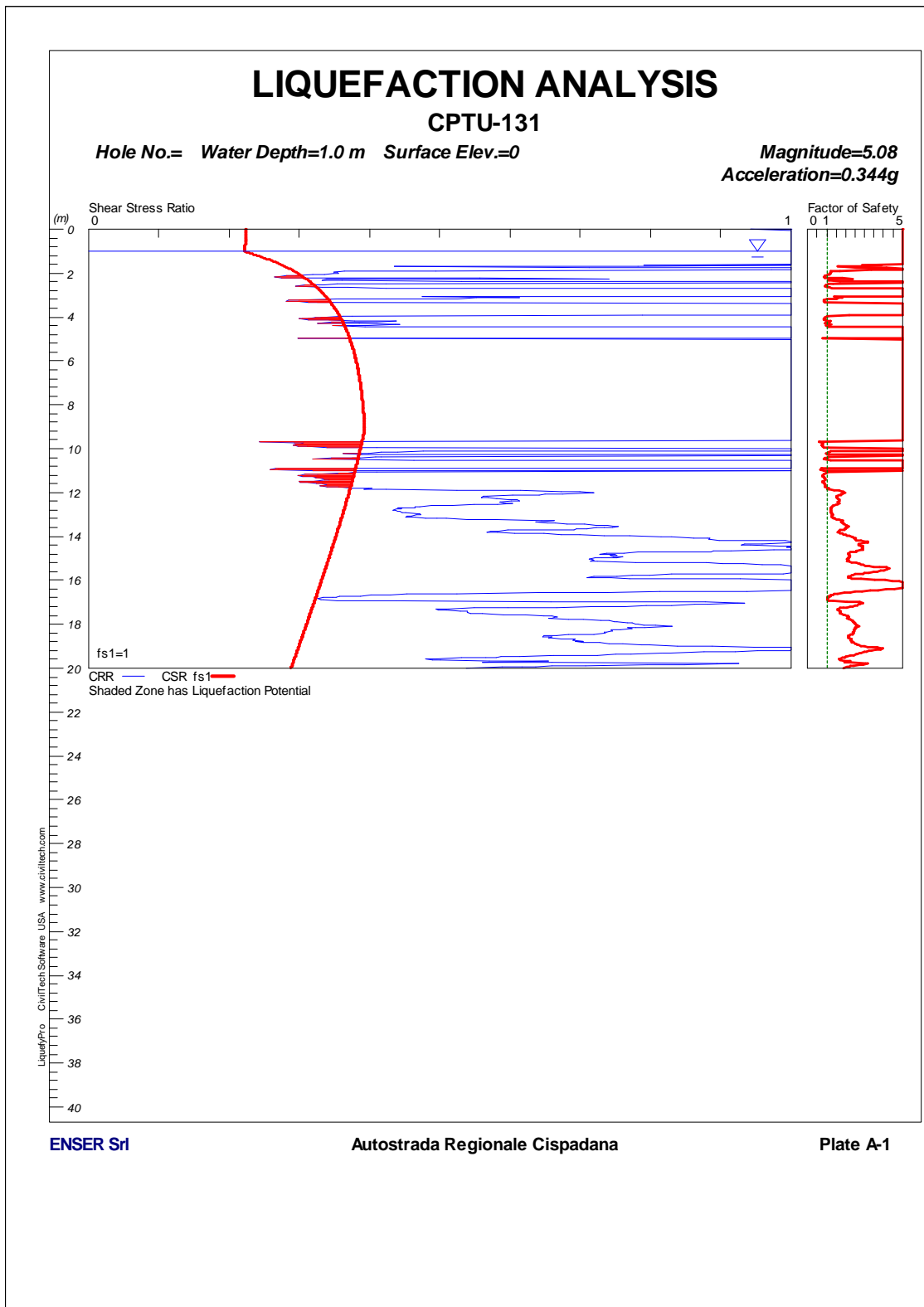


FIGURA 1-89: CPTU131 – VERIFICA A LIQUEFAZIONE.

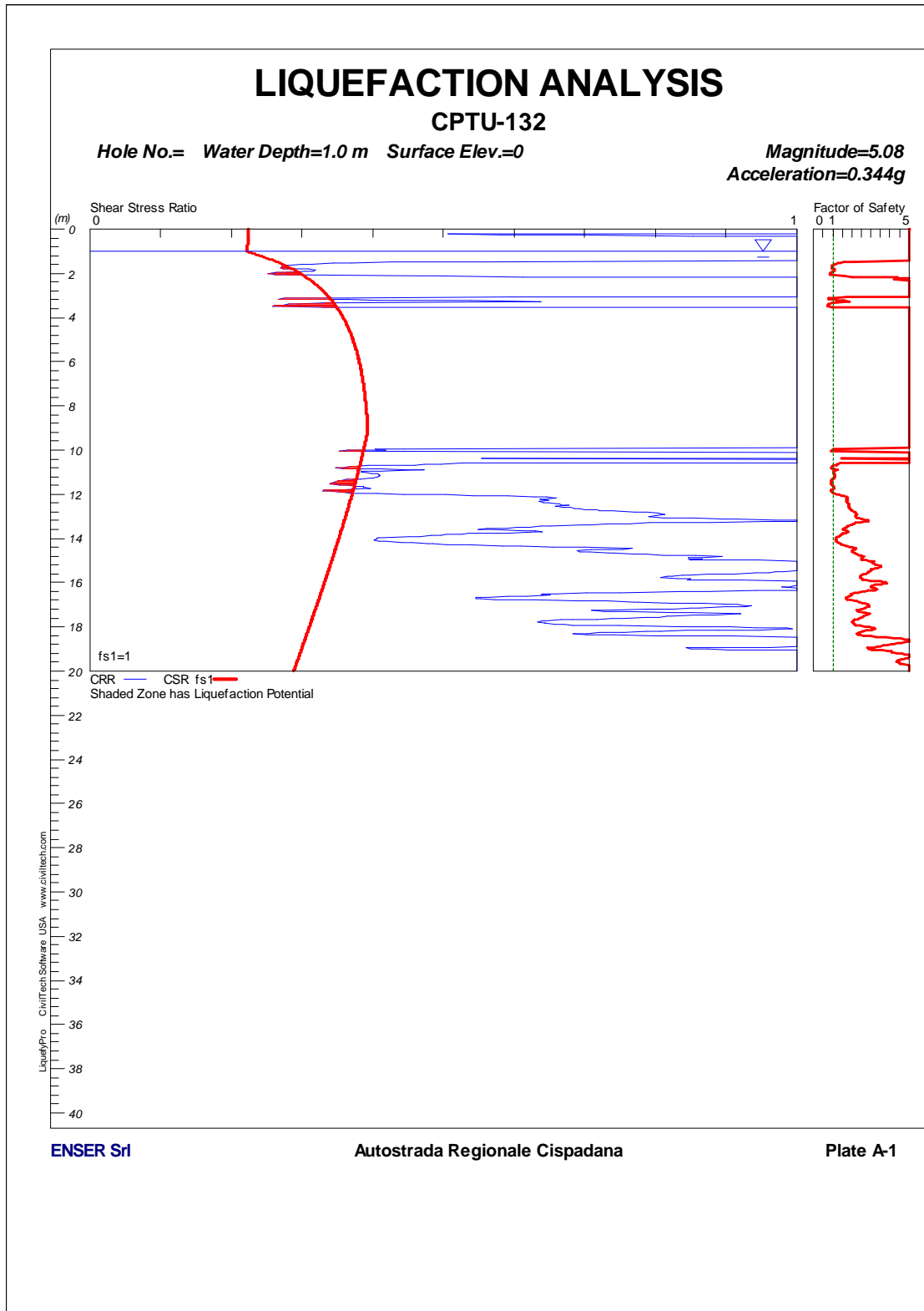


FIGURA 1-90: CPTU132 – VERIFICA A LIQUEFAZIONE.

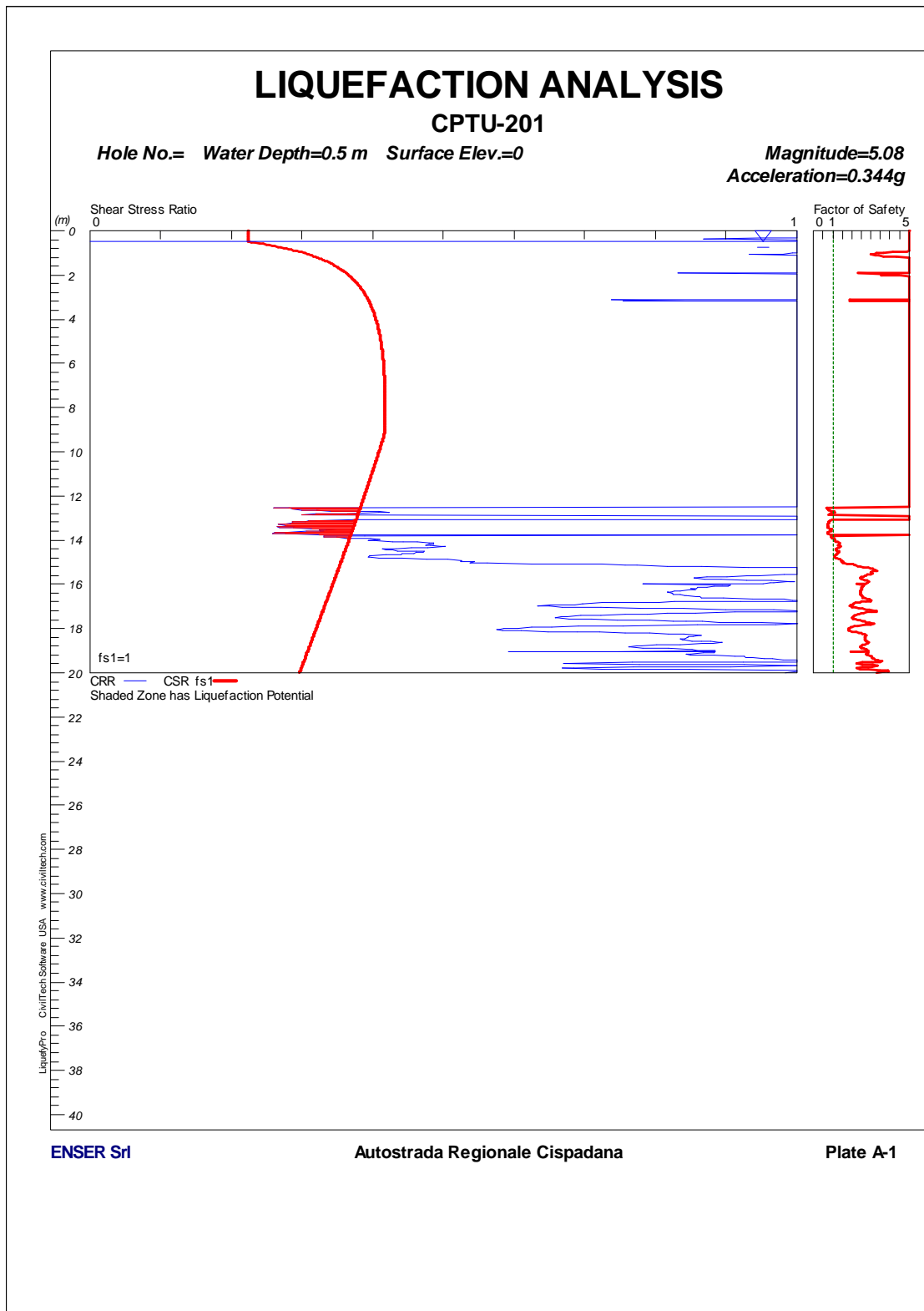


FIGURA 1-91: CPTU201 – VERIFICA A LIQUEFAZIONE.

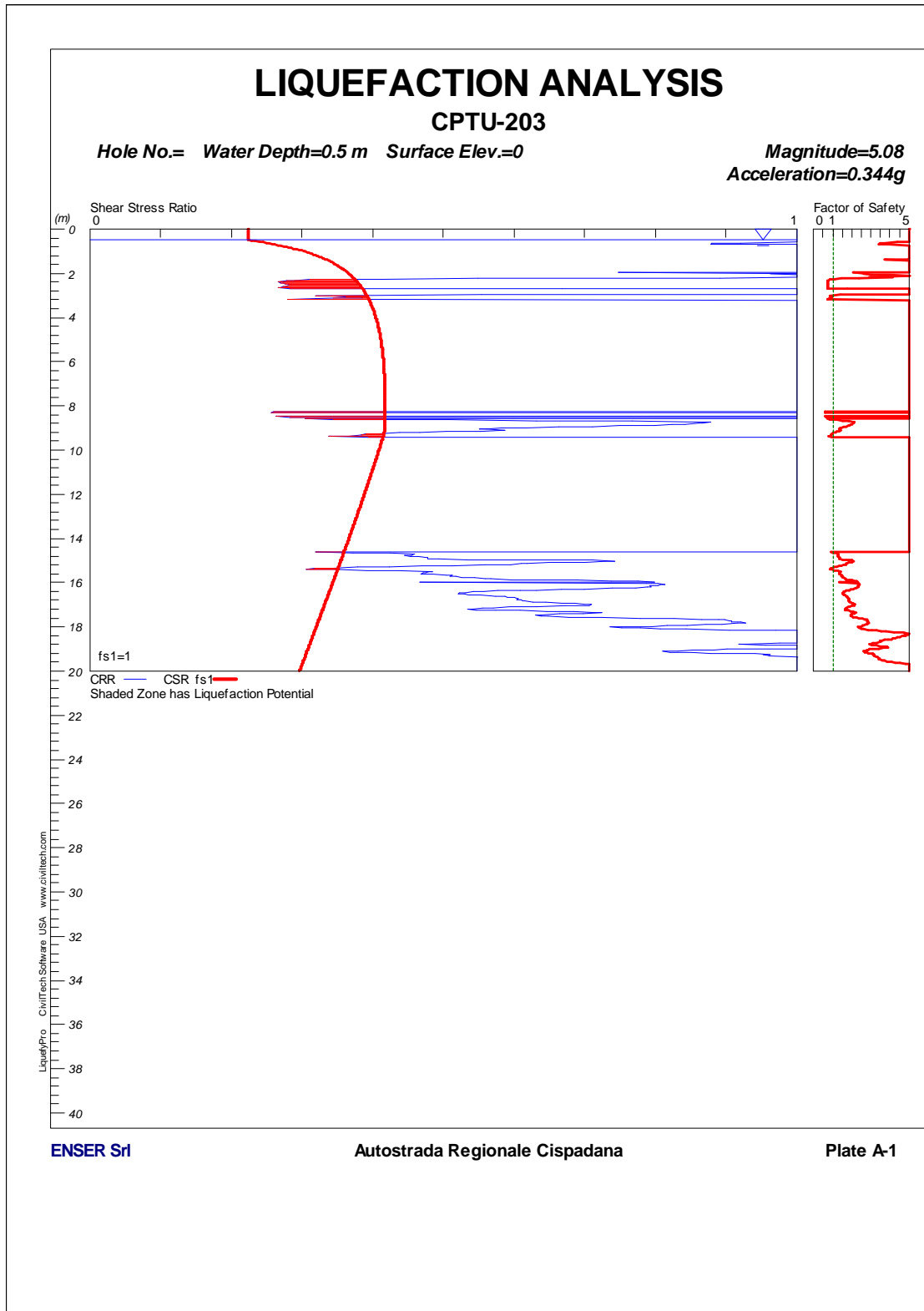


FIGURA 1-92: CPTU203 – VERIFICA A LIQUEFAZIONE.

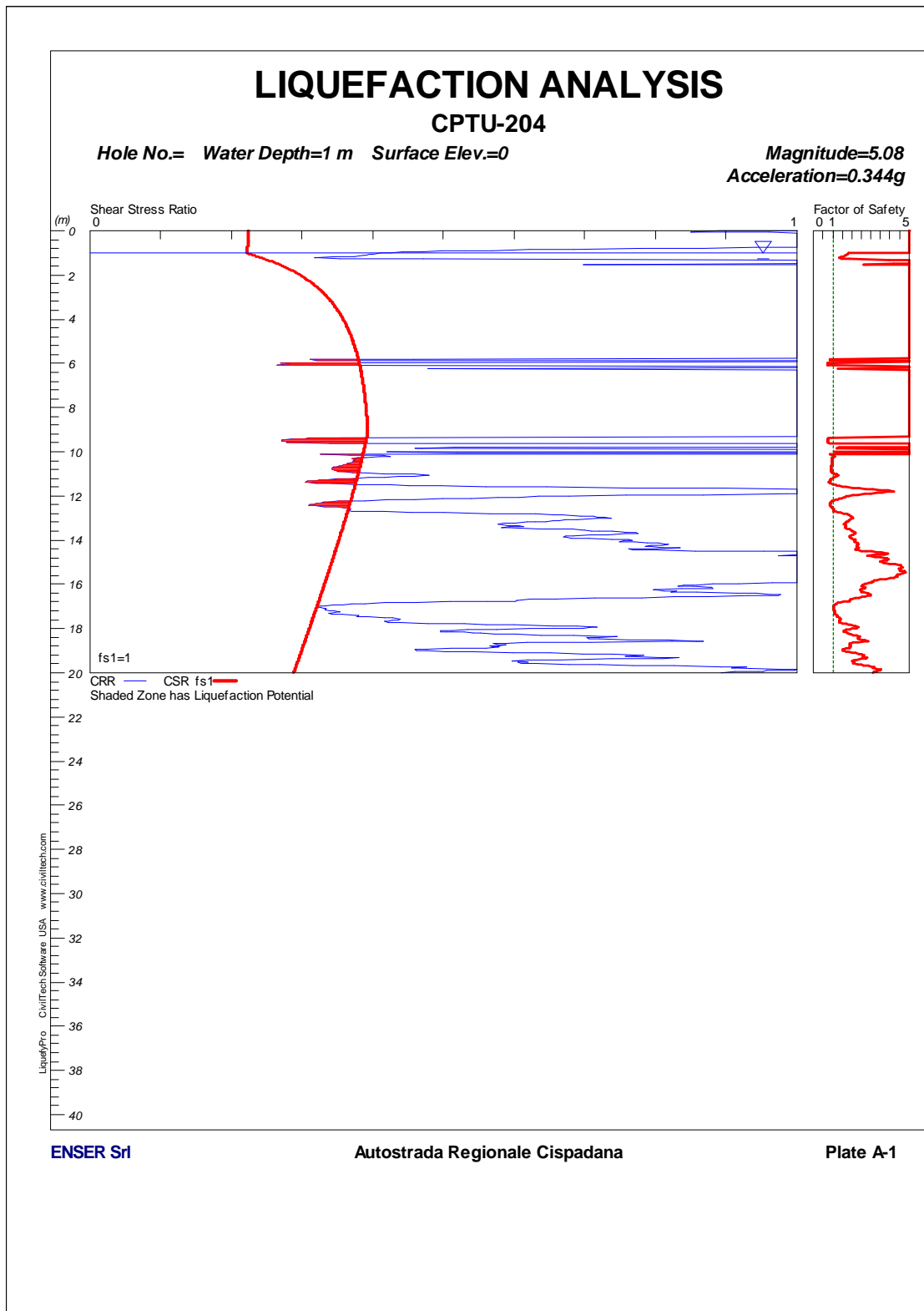


FIGURA 1-93: CPTU204 – VERIFICA A LIQUEFAZIONE.

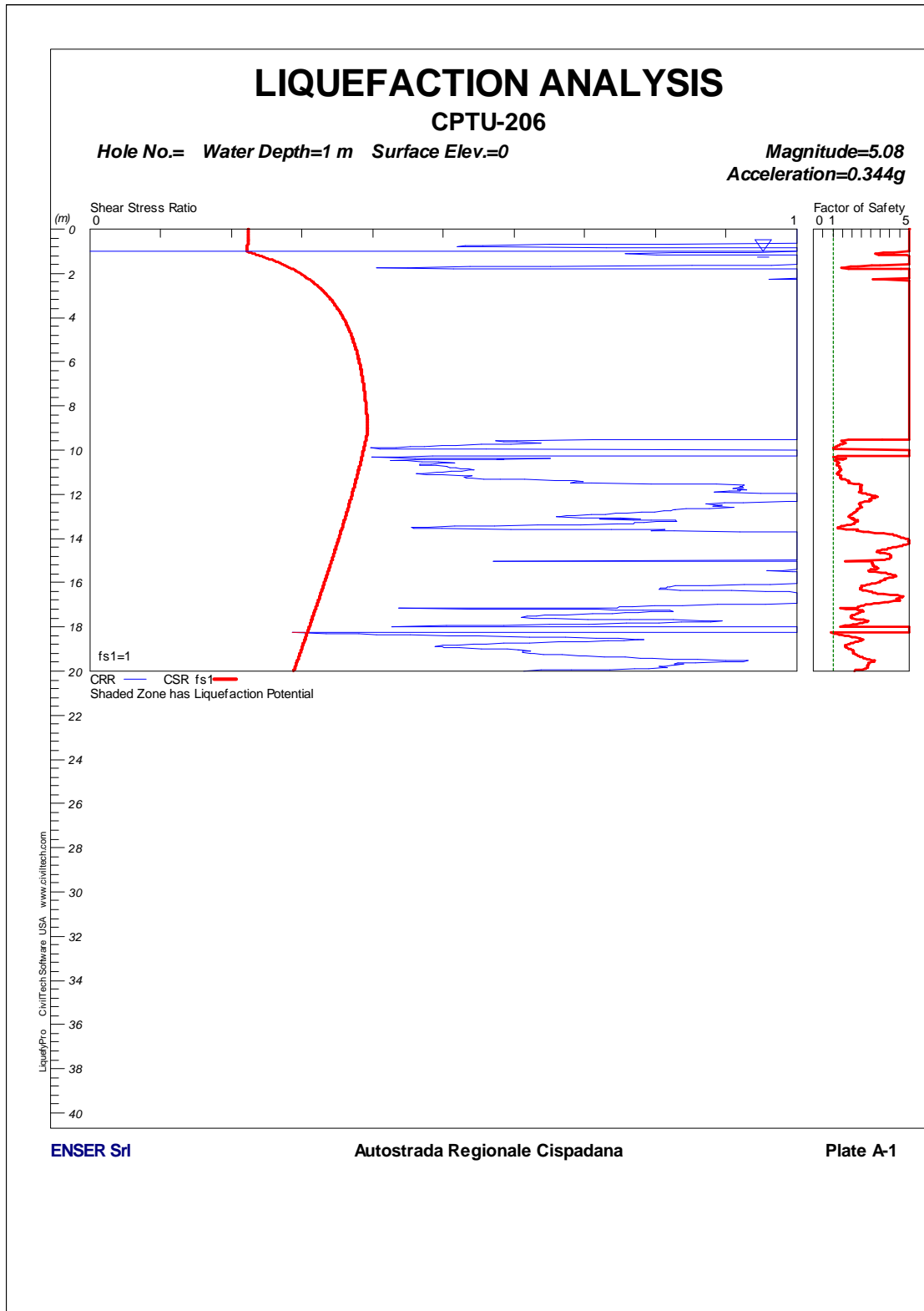


FIGURA 1-94: CPTU206 – VERIFICA A LIQUEFAZIONE.

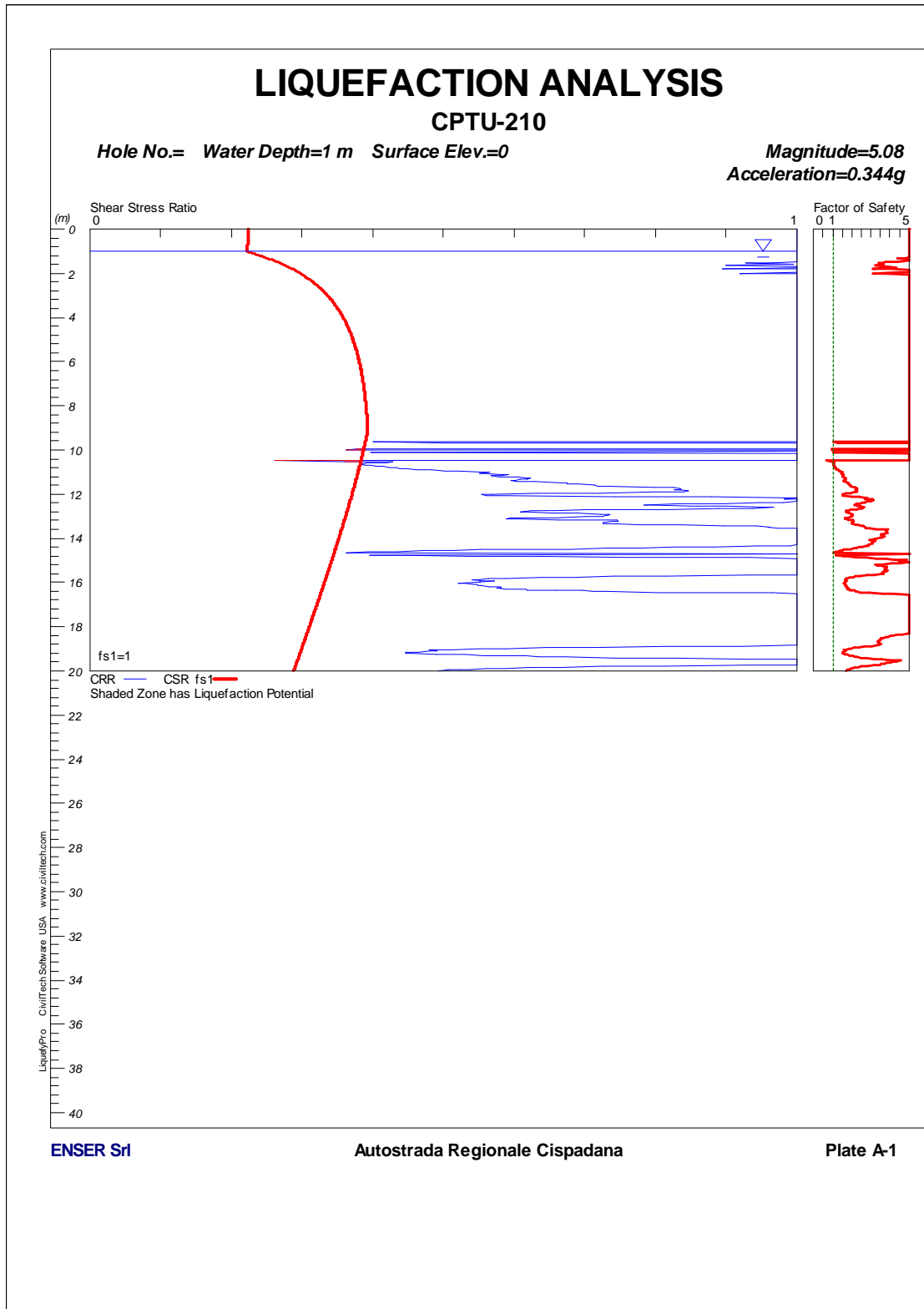


FIGURA 1-95: CPTU210 – VERIFICA A LIQUEFAZIONE.

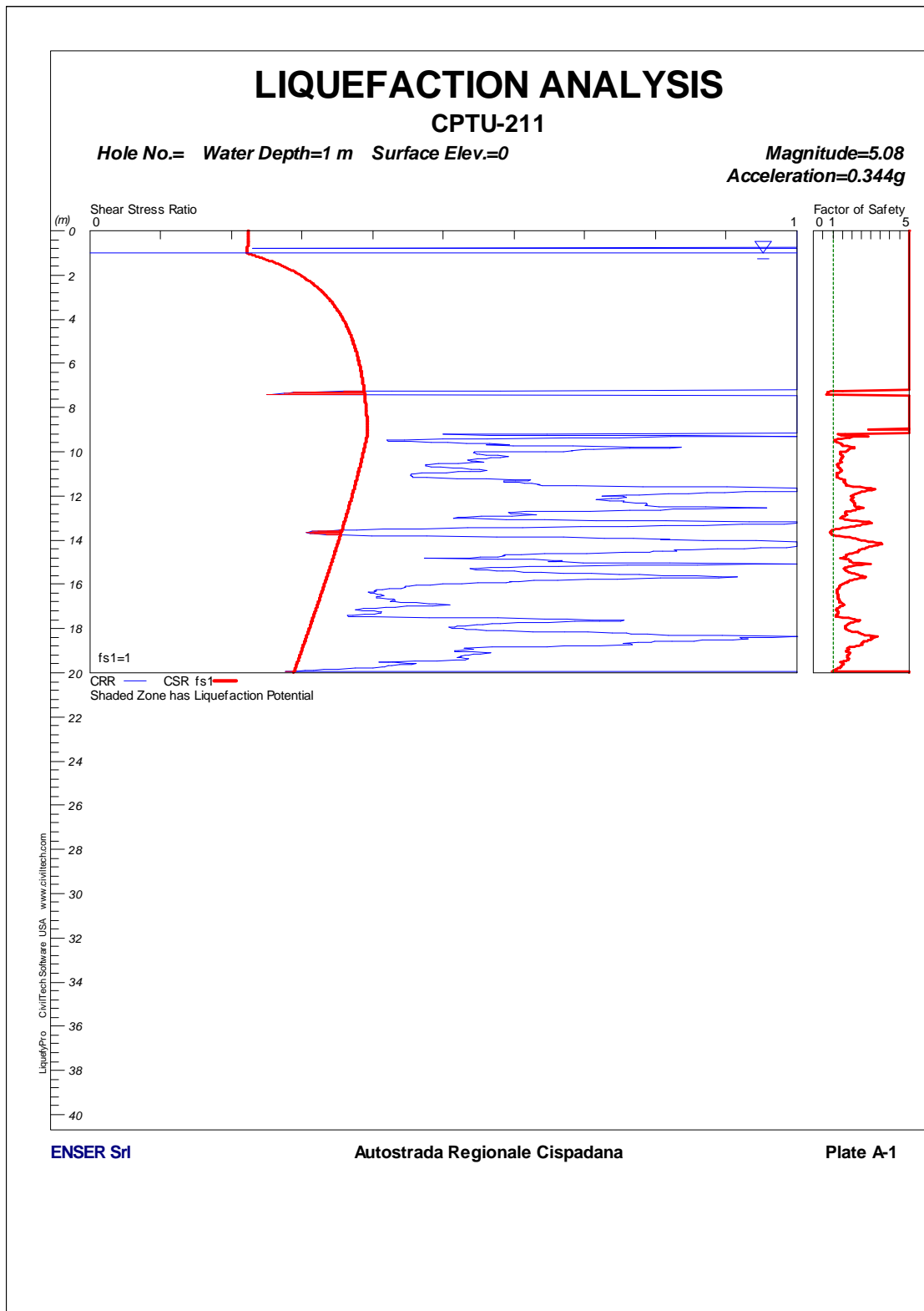


FIGURA 1-96: CPTU211 – Verifica a Liquefazione.

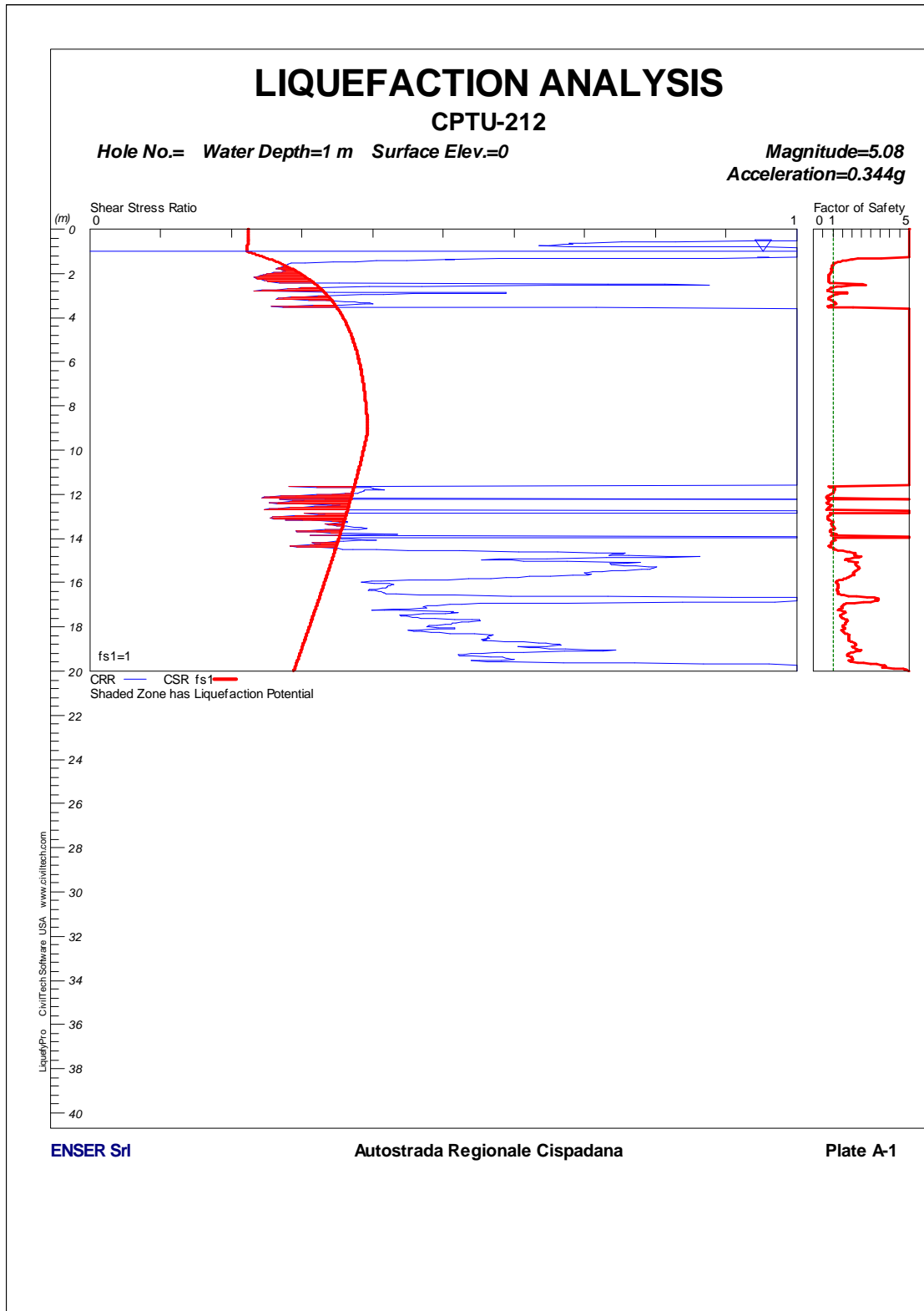


FIGURA 1-97: CPTU212 – Verifica a Liquefazione.

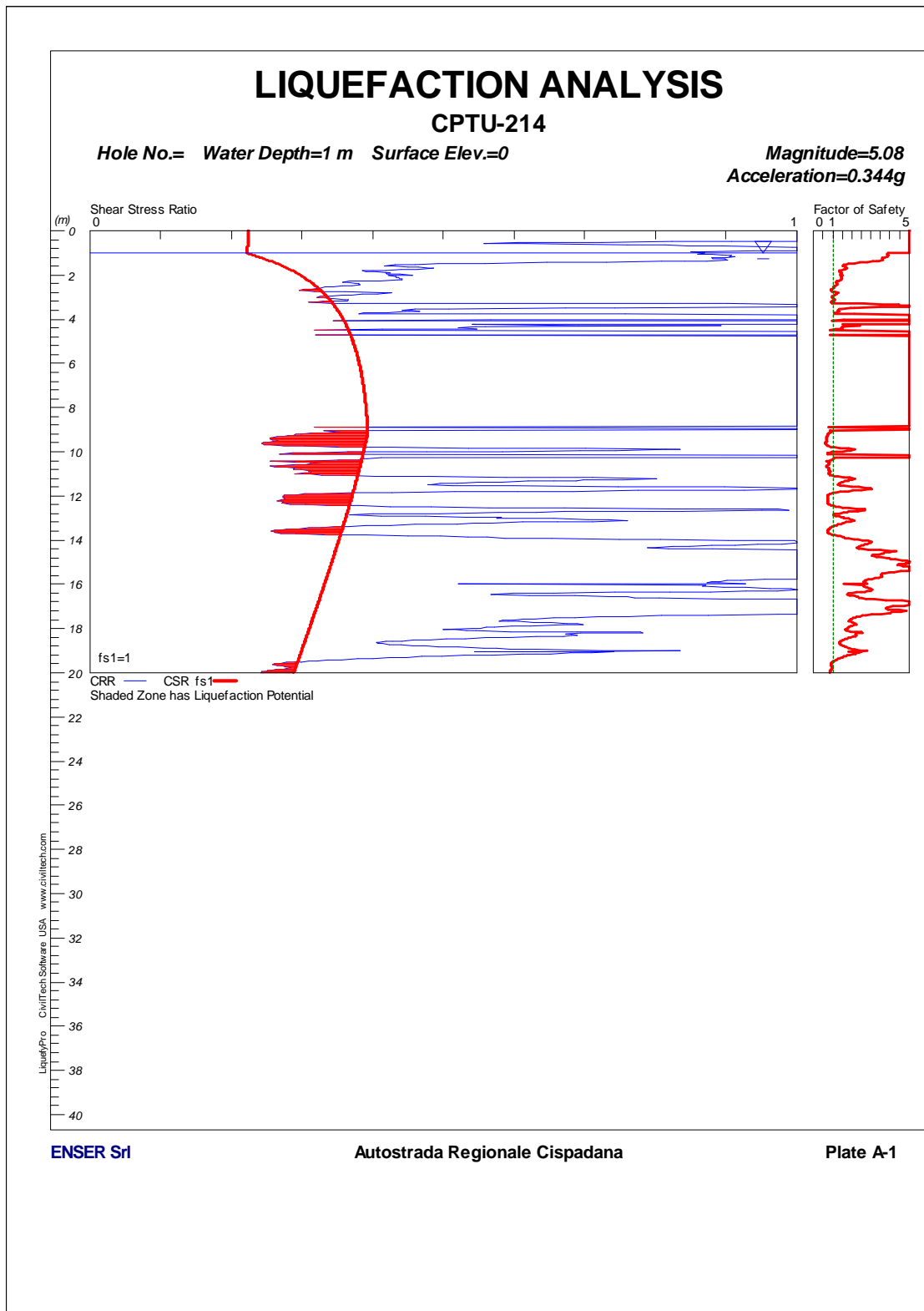


FIGURA 1-98: CPTU214 – Verifica a Liquefazione.

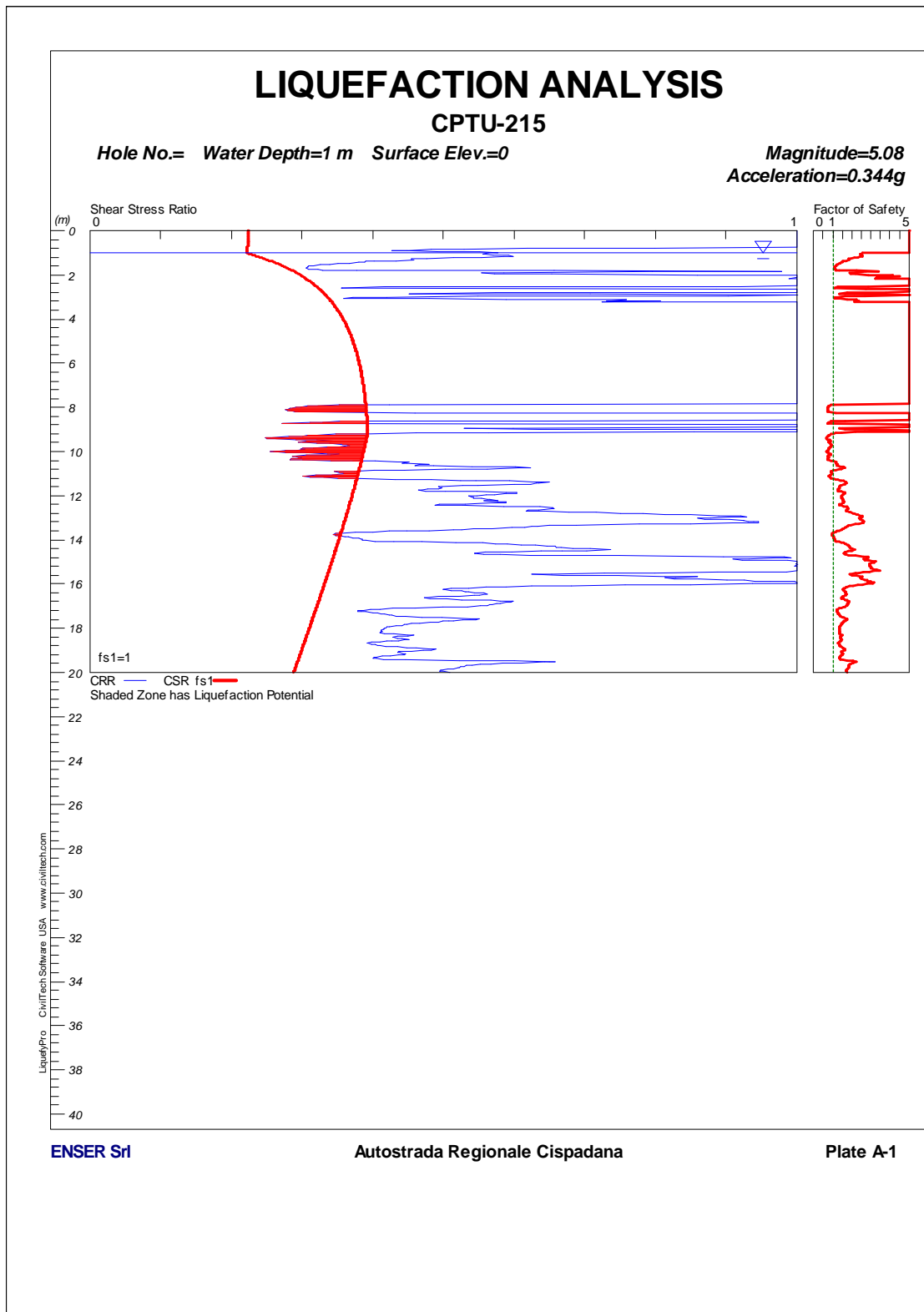


FIGURA 1-99: CPTU215 – Verifica a Liquefazione.

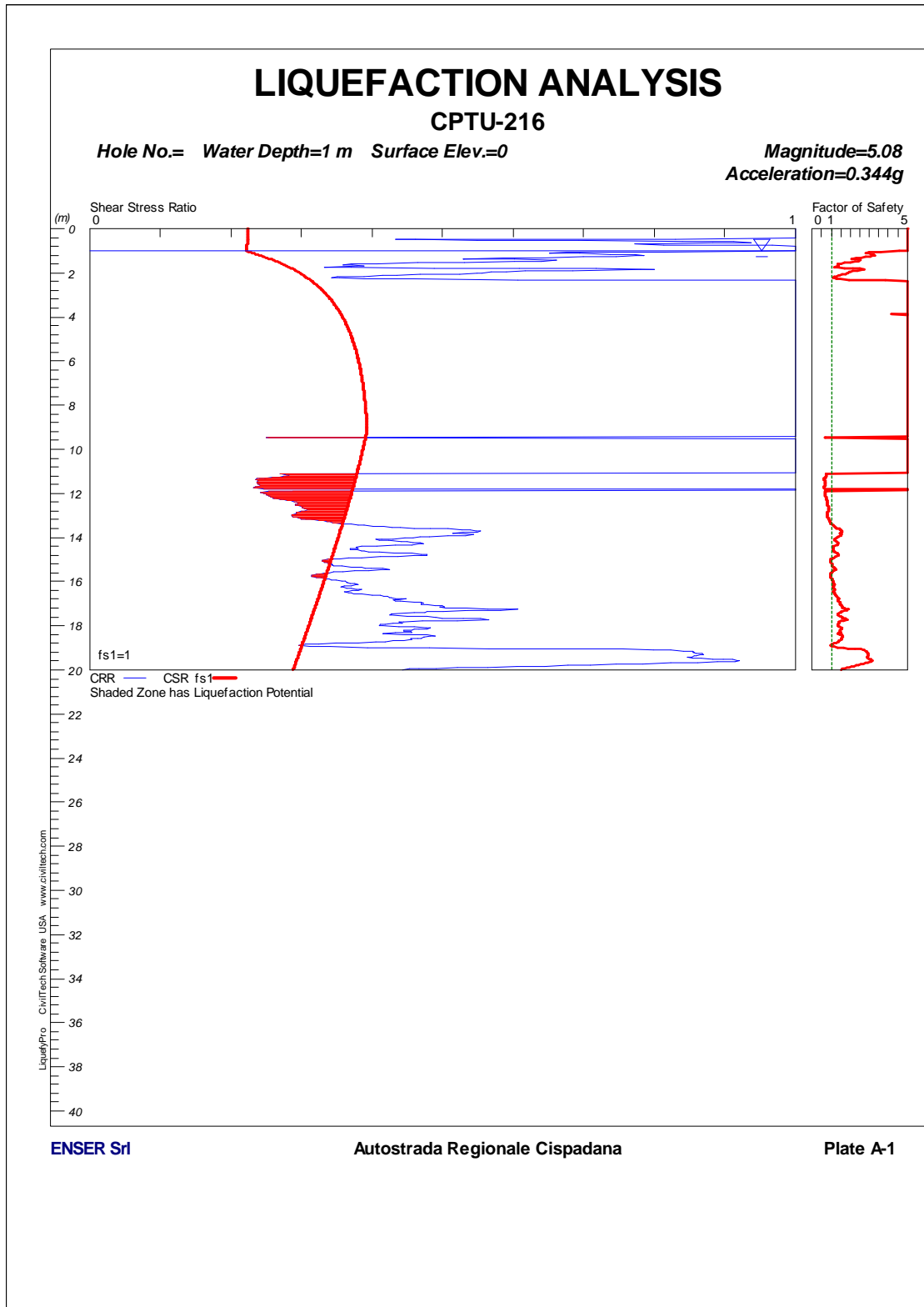


FIGURA 1-100: CPTU216 – Verifica a Liquefazione.

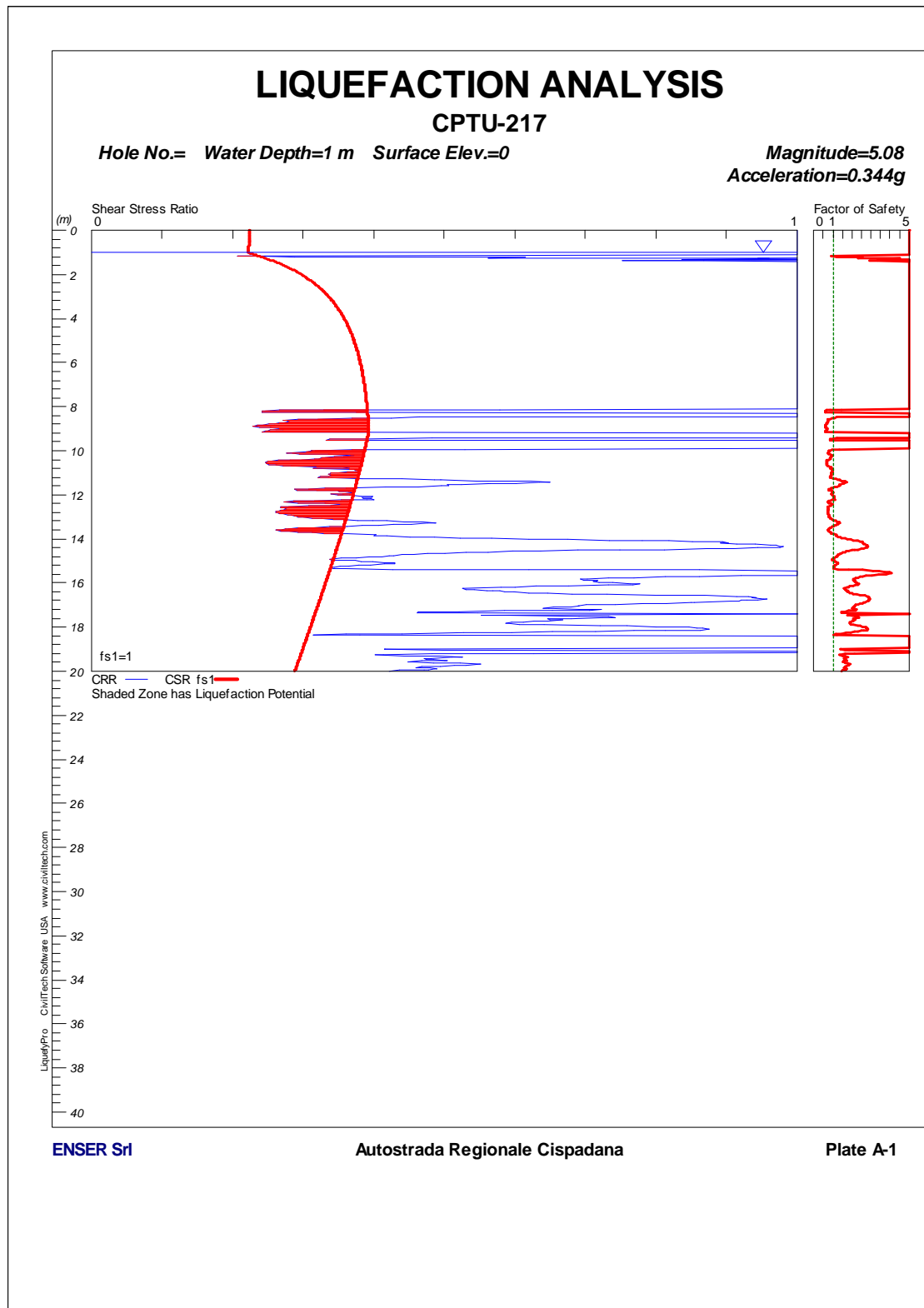


FIGURA 1-101: CPTU217 – VERIFICA A LIQUEFAZIONE.

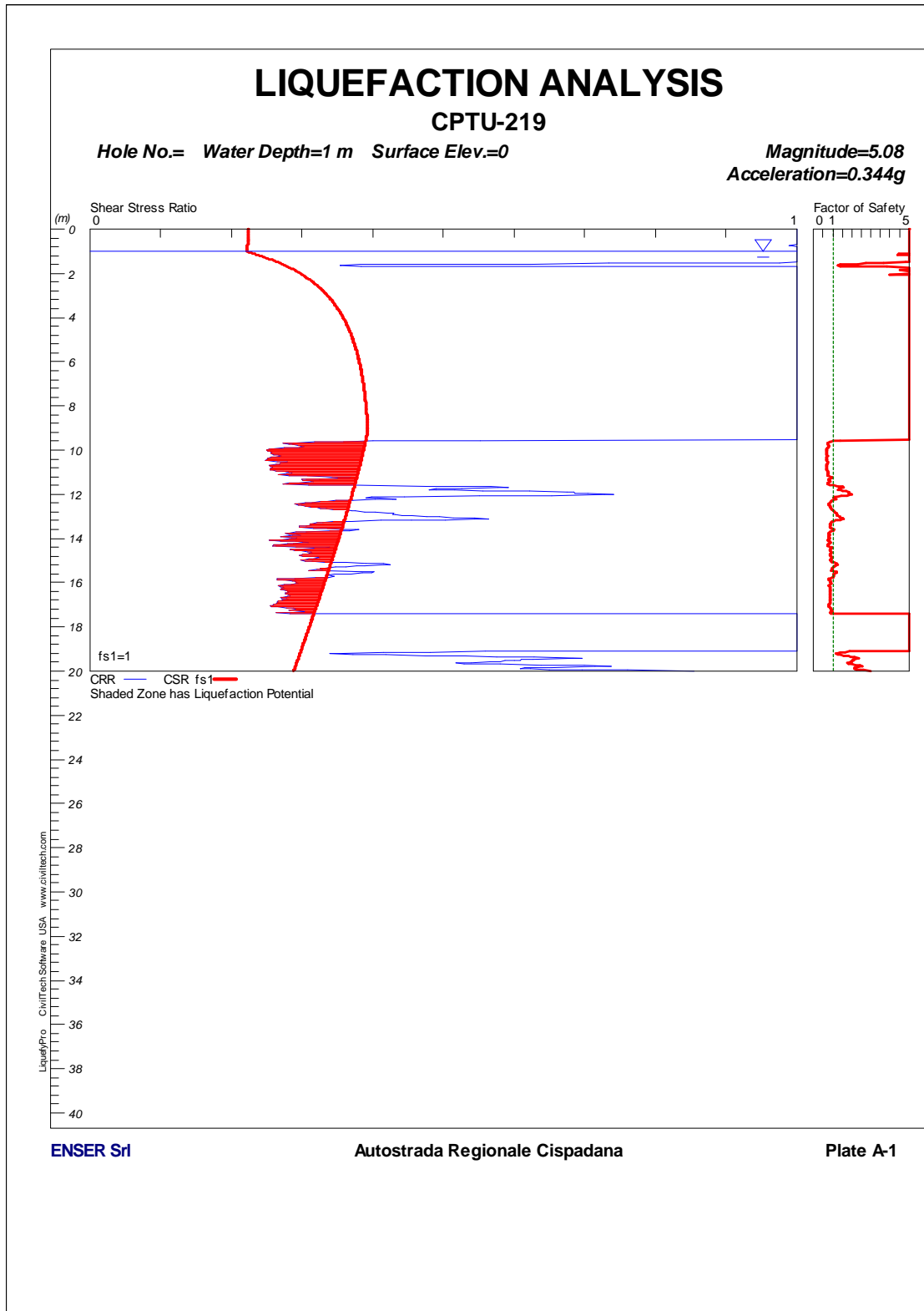


FIGURA 1-102: CPTU219 – VERIFICA A LIQUEFAZIONE.

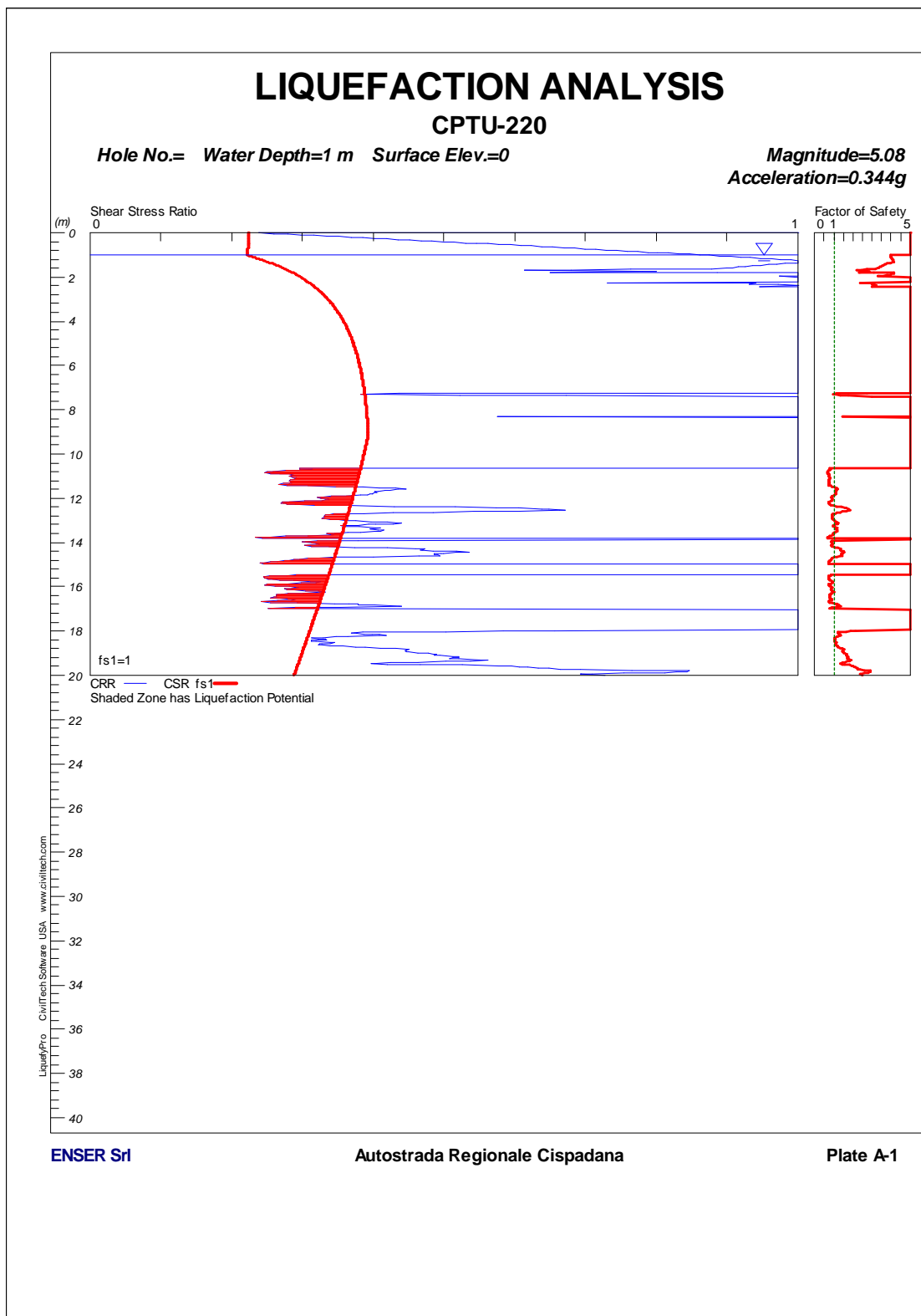


FIGURA 1-103: CPTU220 – VERIFICA A LIQUEFAZIONE.

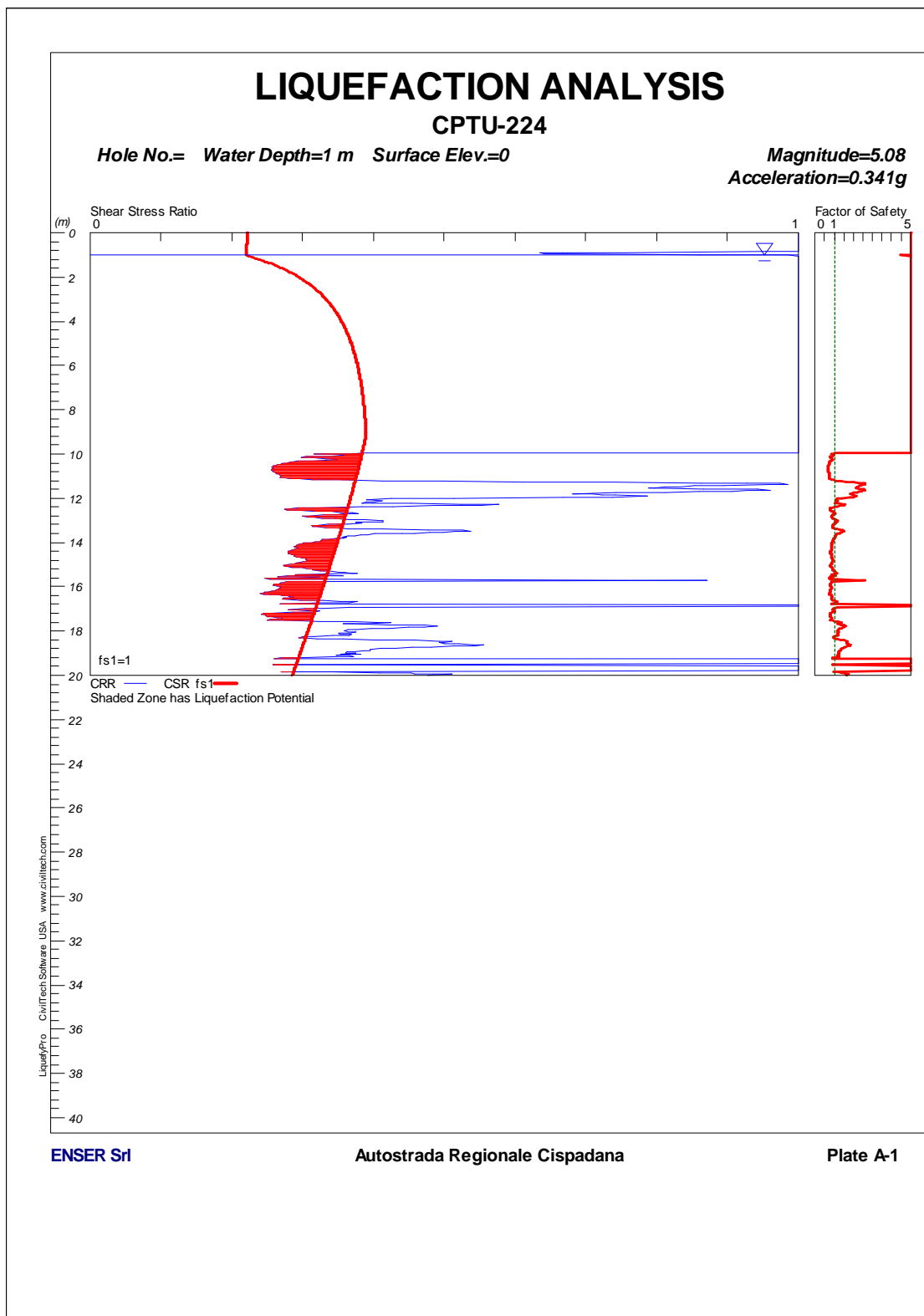


FIGURA 1-104: CPTU224 – VERIFICA A LIQUEFAZIONE.

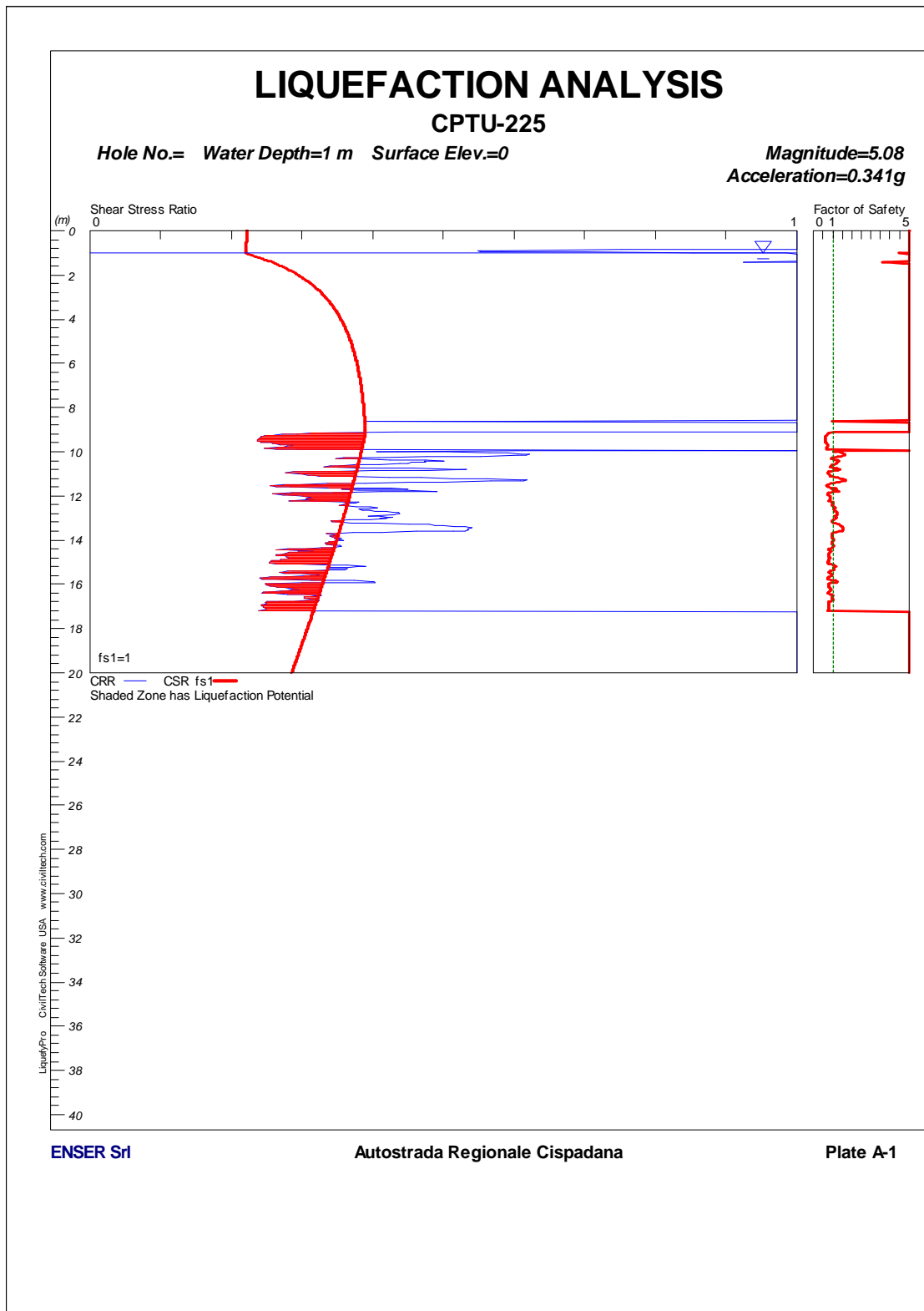


FIGURA 1-105: CPTU225 – VERIFICA A LIQUEFAZIONE.

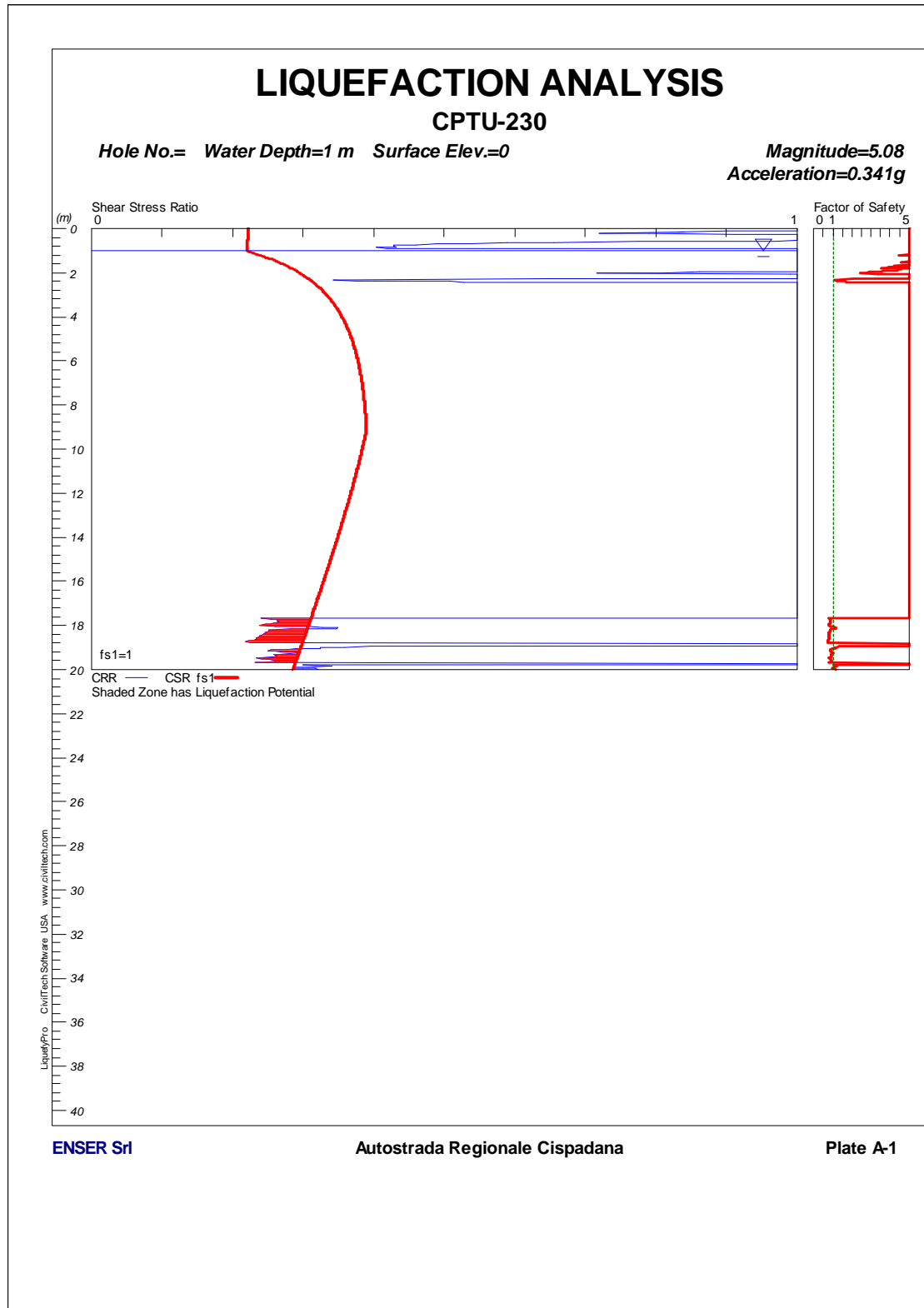


FIGURA 1-106: CPTU230 – VERIFICA A LIQUEFAZIONE.

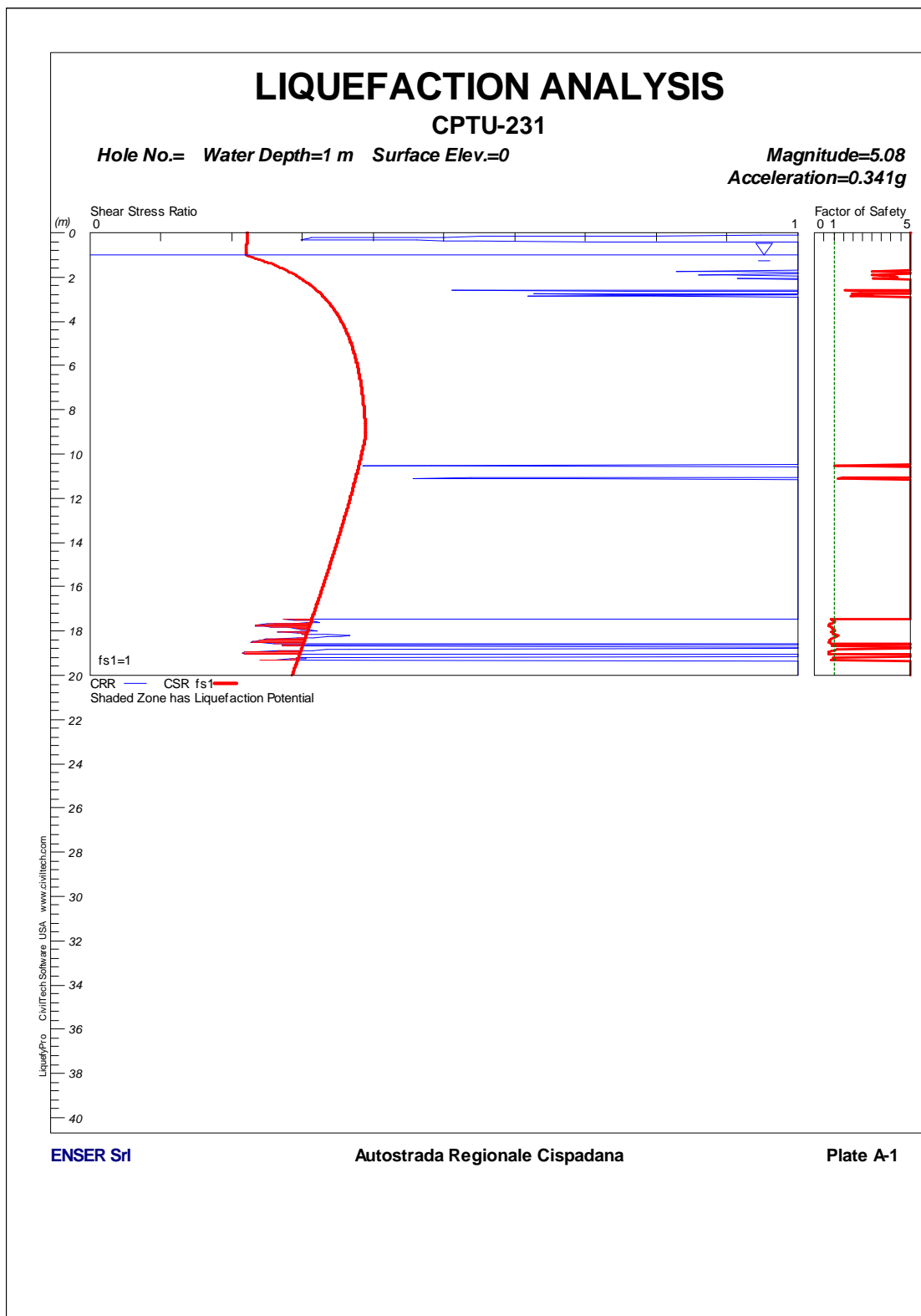


FIGURA 1-107: CPTU231 – VERIFICA A LIQUEFAZIONE.

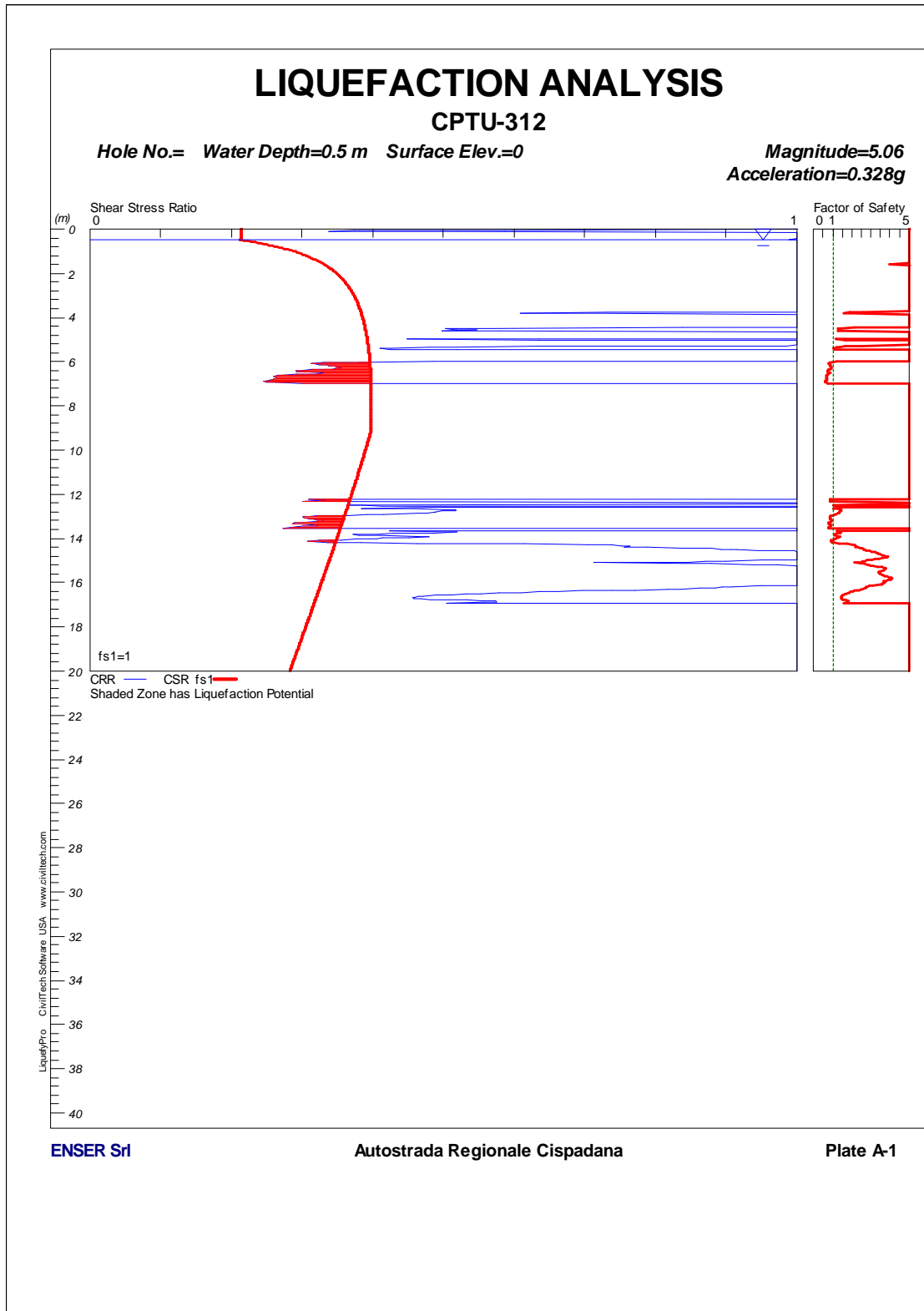


FIGURA 1-108: CPTU312 – VERIFICA A LIQUEFAZIONE.

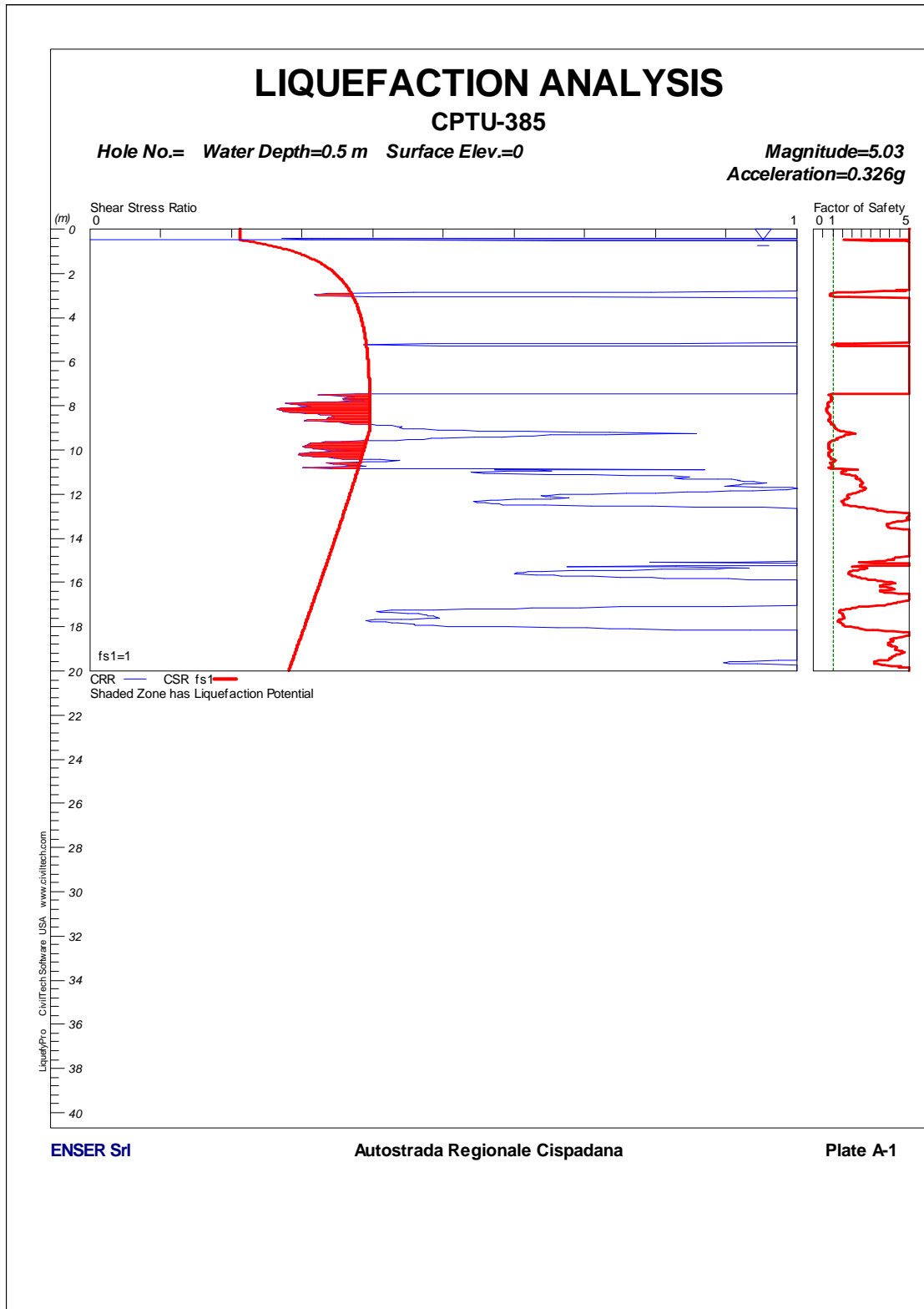
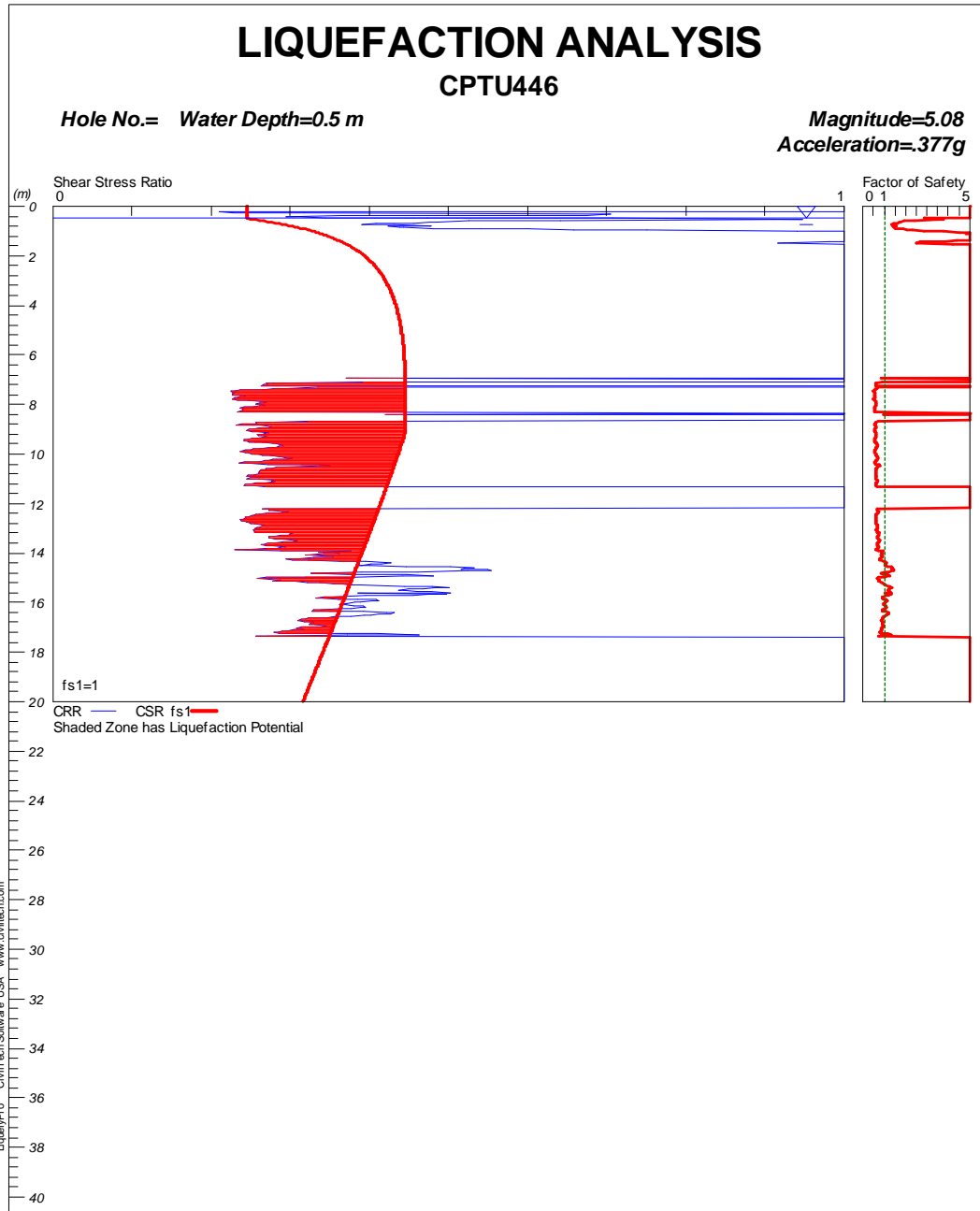


FIGURA 1-109: CPTU385 – VERIFICA A LIQUEFAZIONE.



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FIGURA 1-110: CPTU446 – VERIFICA A LIQUEFAZIONE.

2. DEFINIZIONE DEGLI SPESSORI DI BONIFICA – TRATTAZIONE DI BURMISTER

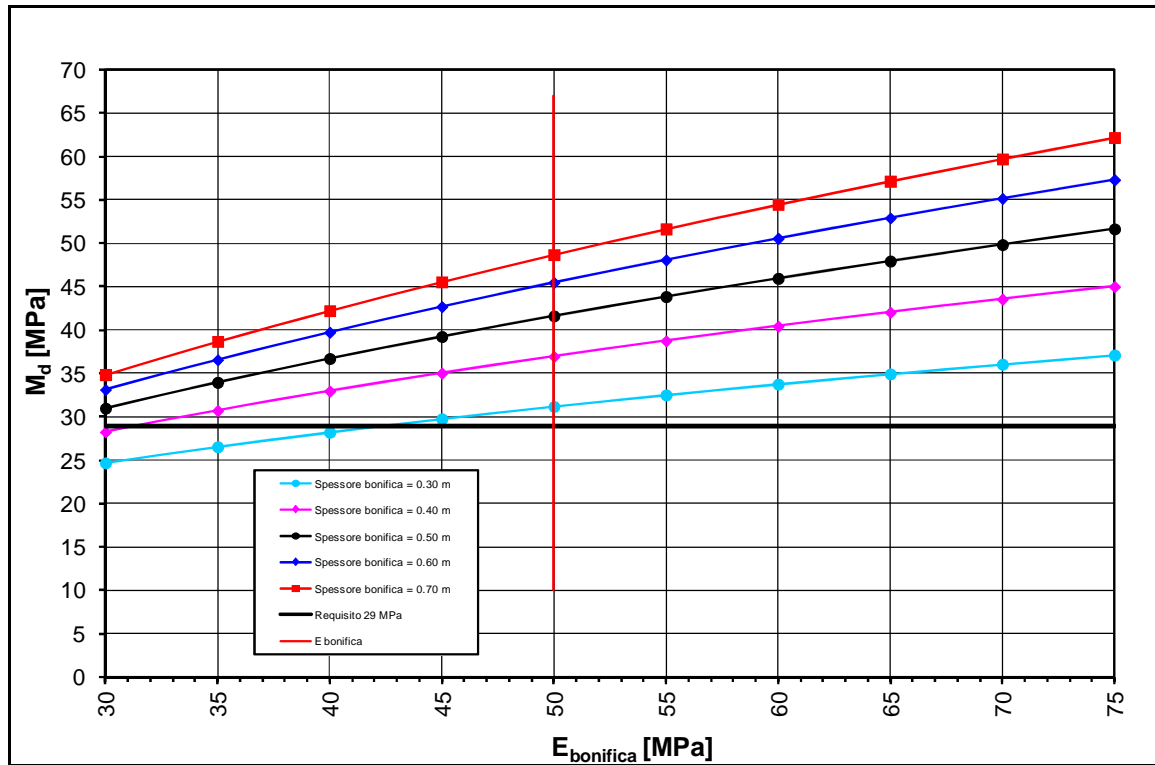


FIGURA 2-1: TRATTO 1 – DETERMINAZIONE SPESSORE DI BONIFICA.

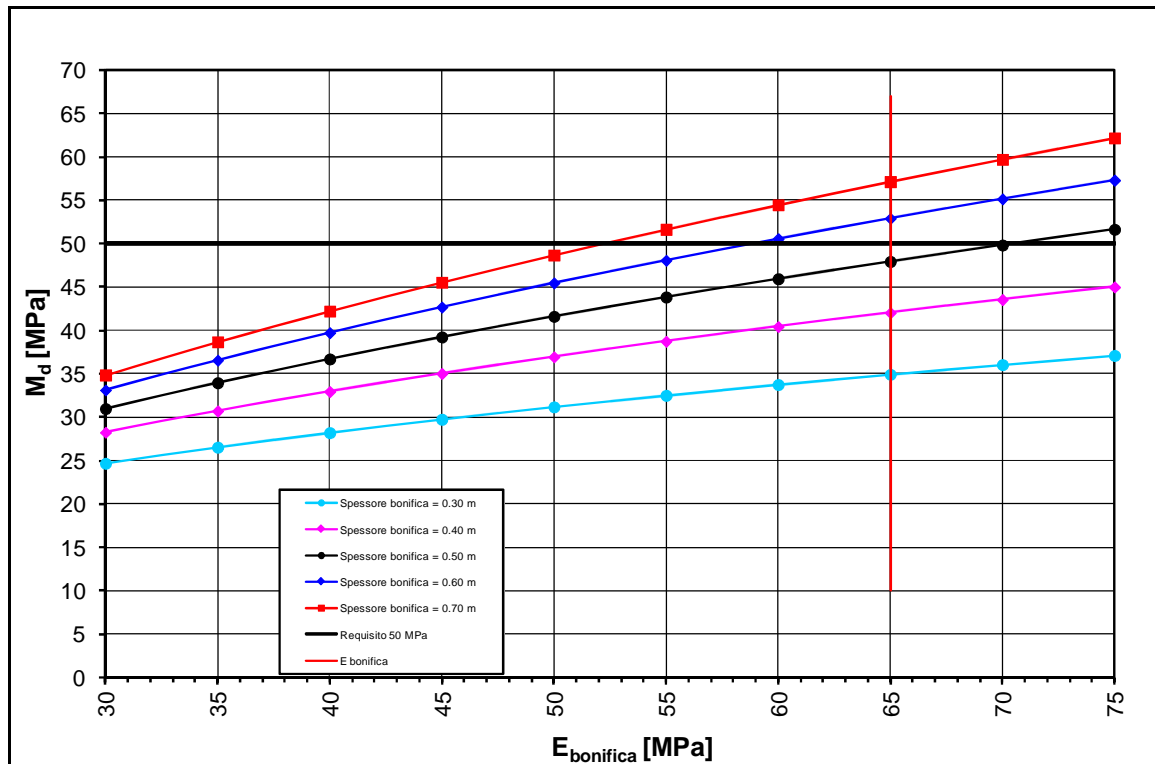


FIGURA 2-2: TRATTO 2 – DETERMINAZIONE SPESSORE DI BONIFICA.

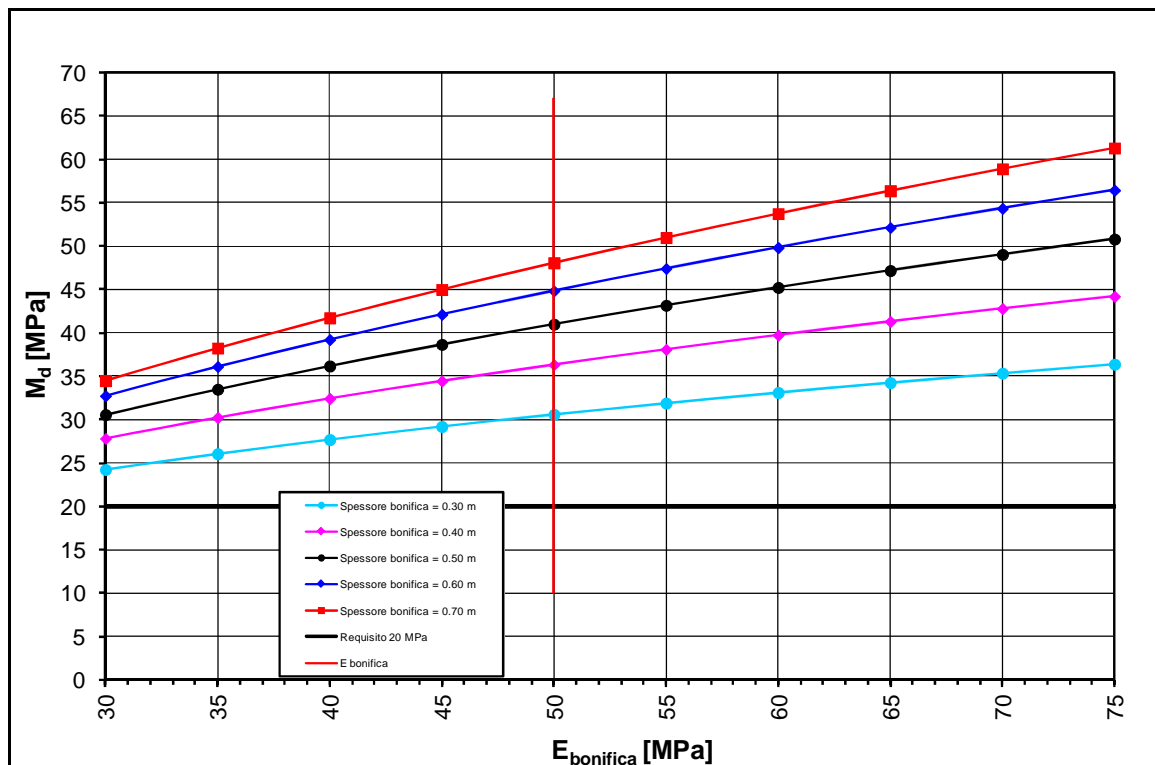


FIGURA 2-3: TRATTO 3 – DETERMINAZIONE SPESSORE DI BONIFICA.

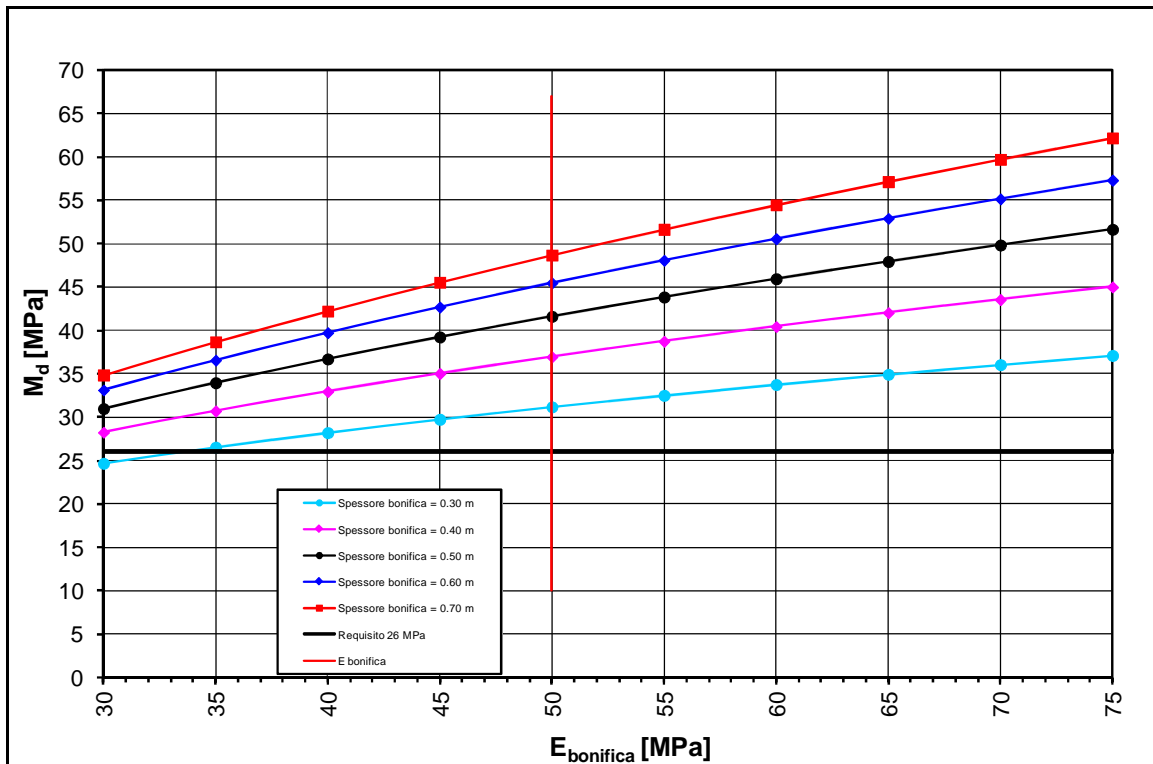


FIGURA 2-4: TRATTO 4 – DETERMINAZIONE SPESSORE DI BONIFICA.

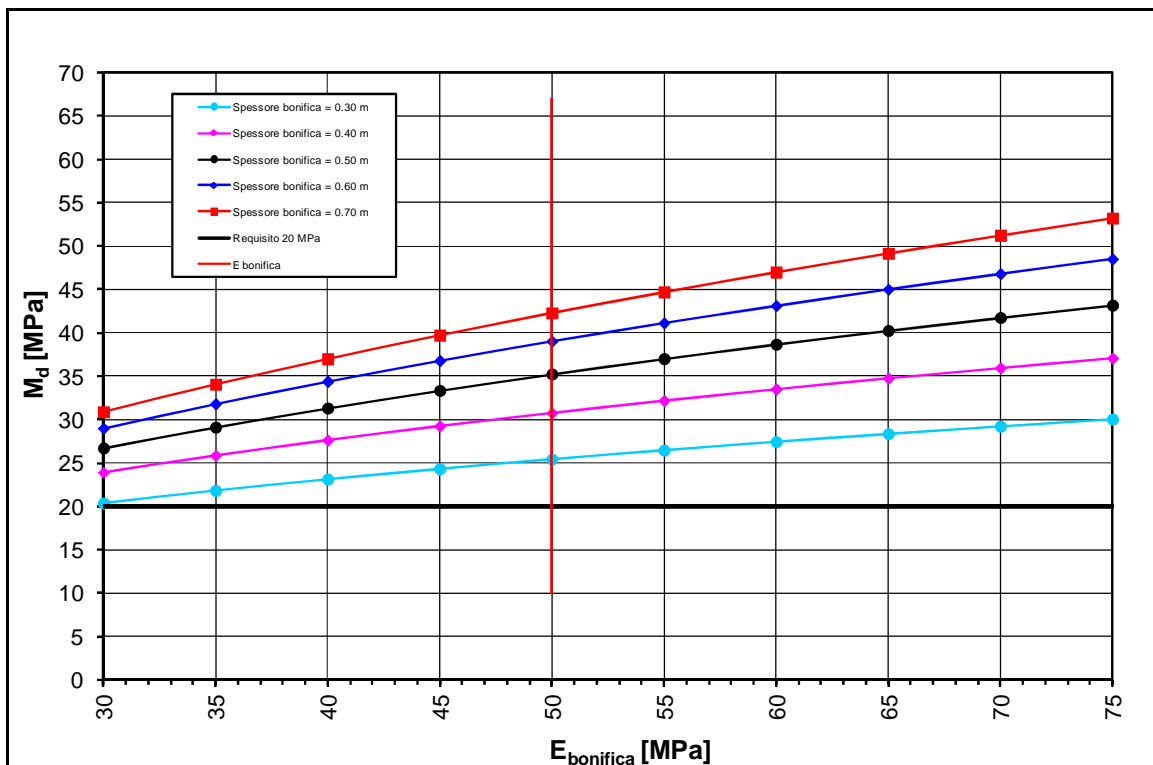


FIGURA 2-5: TRATTO 5 – DETERMINAZIONE SPESSORE DI BONIFICA.

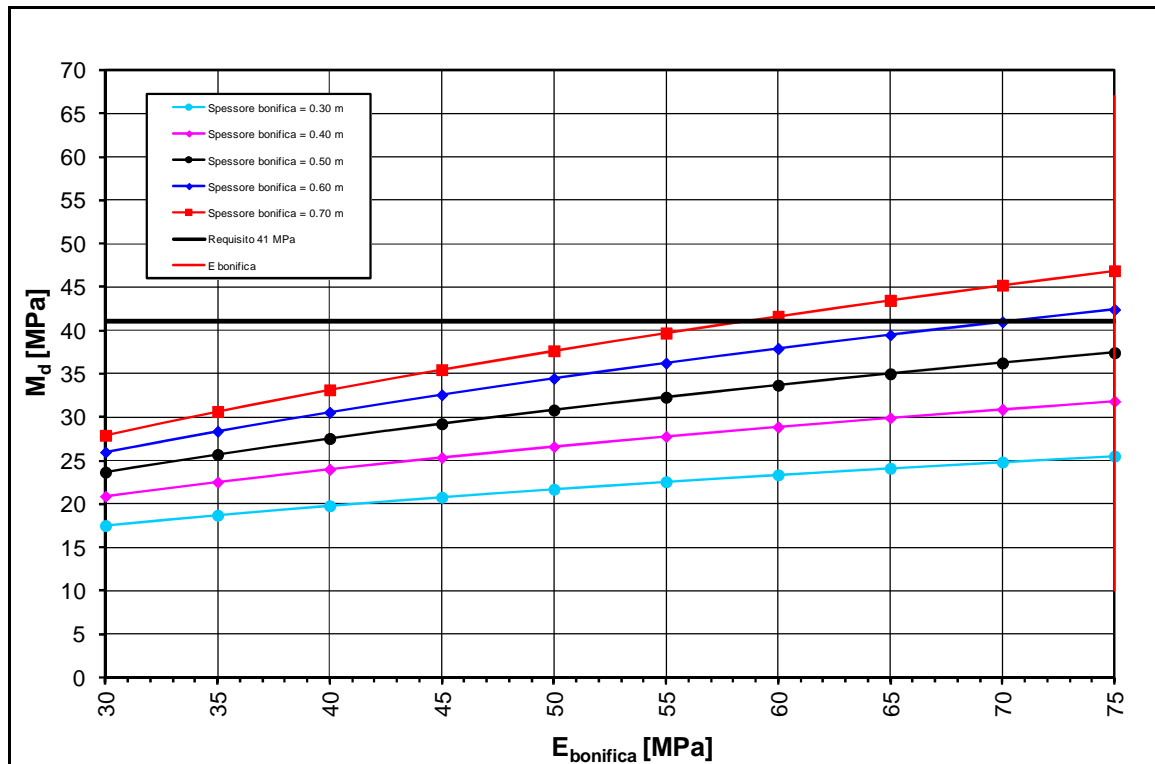


FIGURA 2-6: TRATTO 6 – DETERMINAZIONE SPESSORE DI BONIFICA.

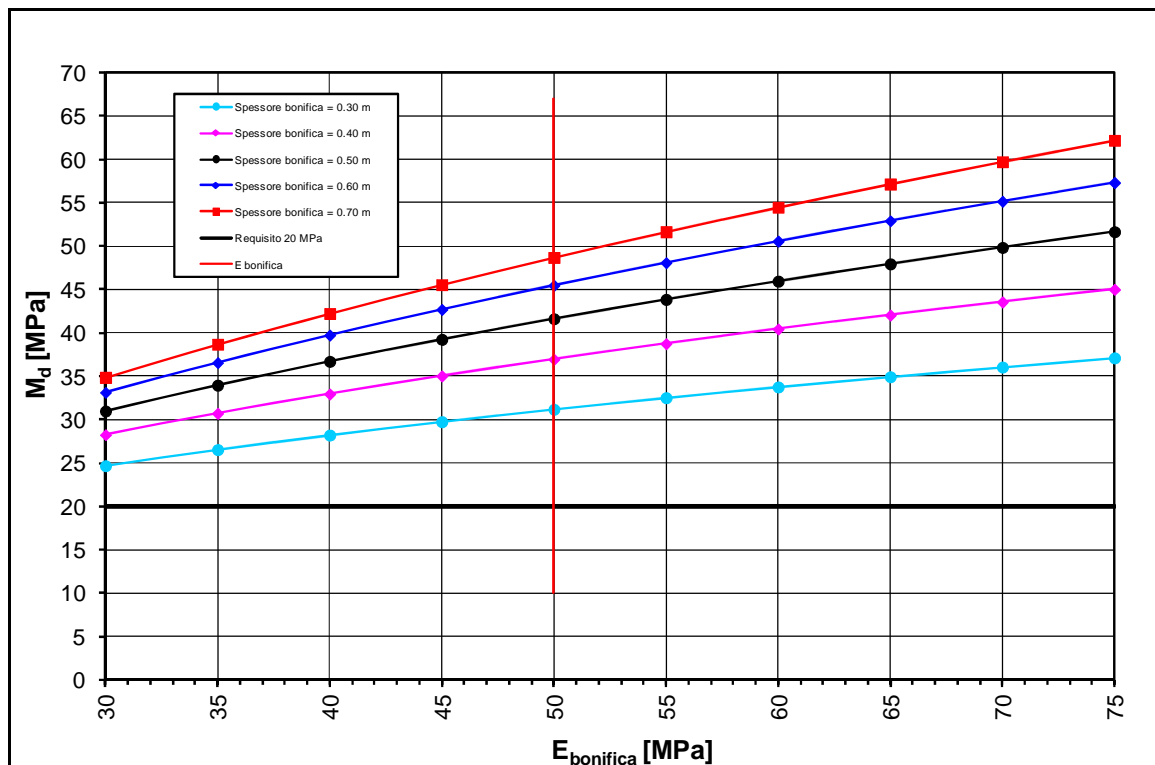


FIGURA 2-7: TRATTO 7 – DETERMINAZIONE SPESSORE DI BONIFICA.

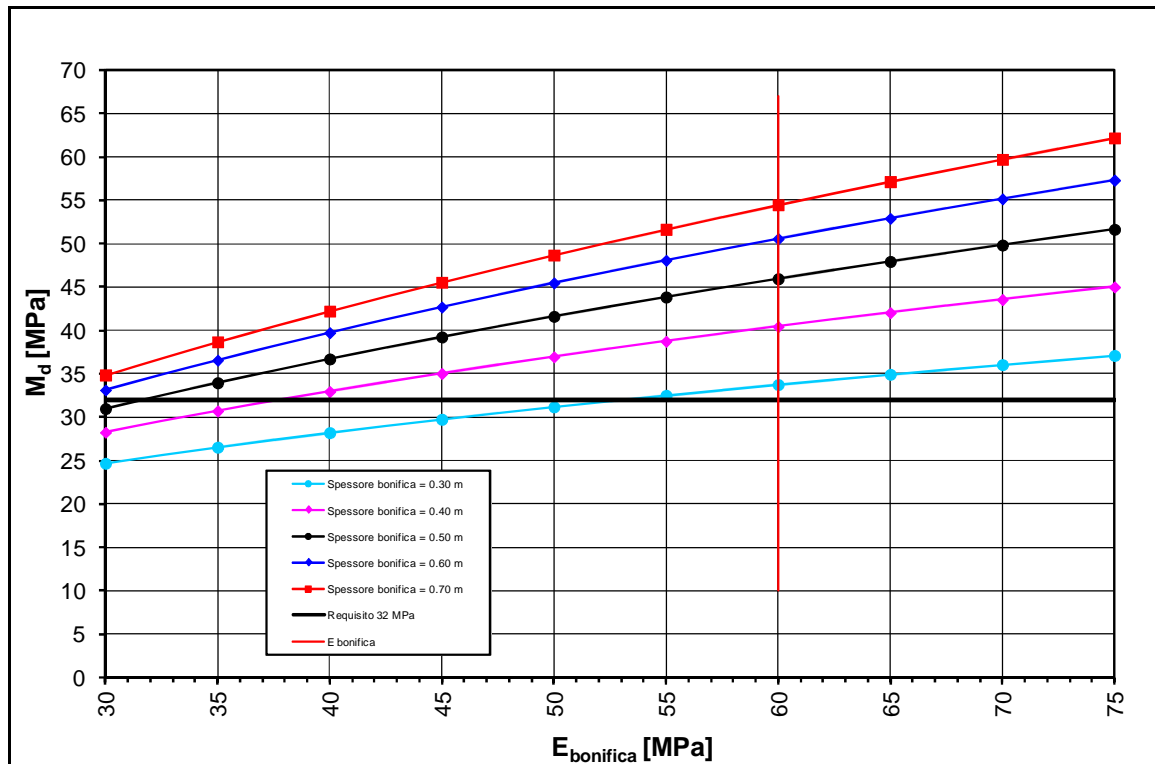


FIGURA 2-8: TRATTO 8 – DETERMINAZIONE SPESSORE DI BONIFICA.

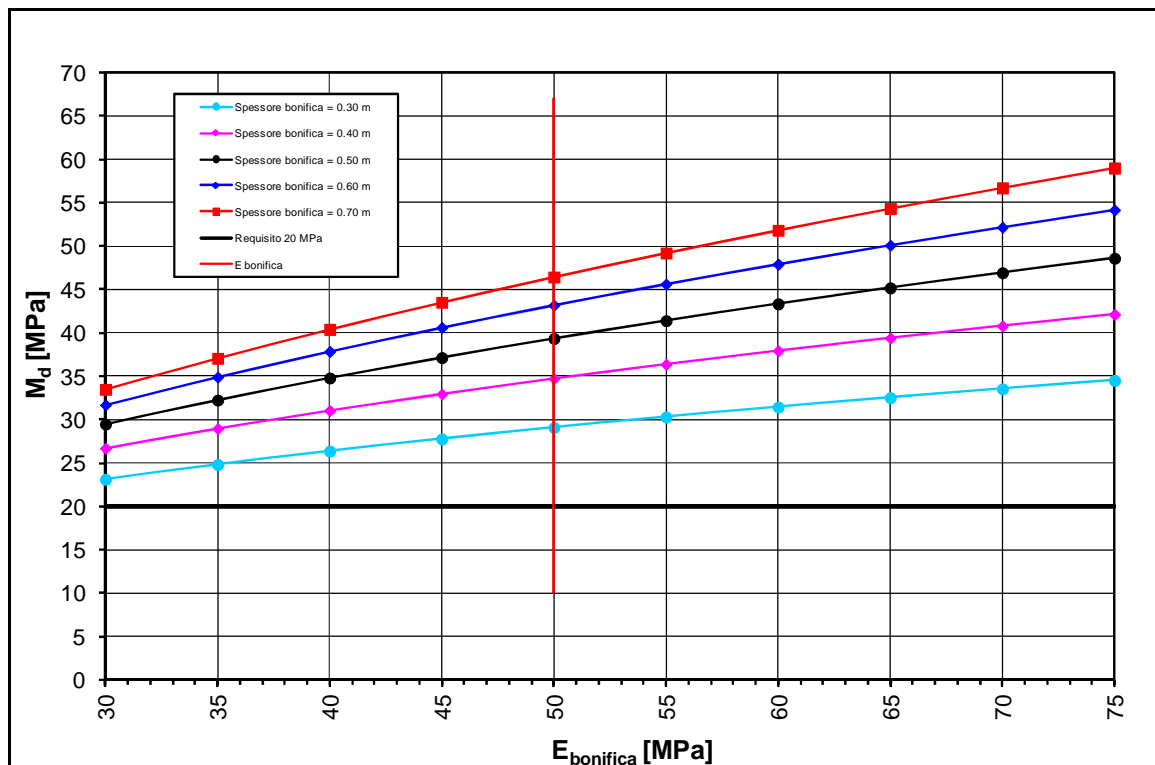


FIGURA 2-9: TRATTO 9 – DETERMINAZIONE SPESSORE DI BONIFICA.

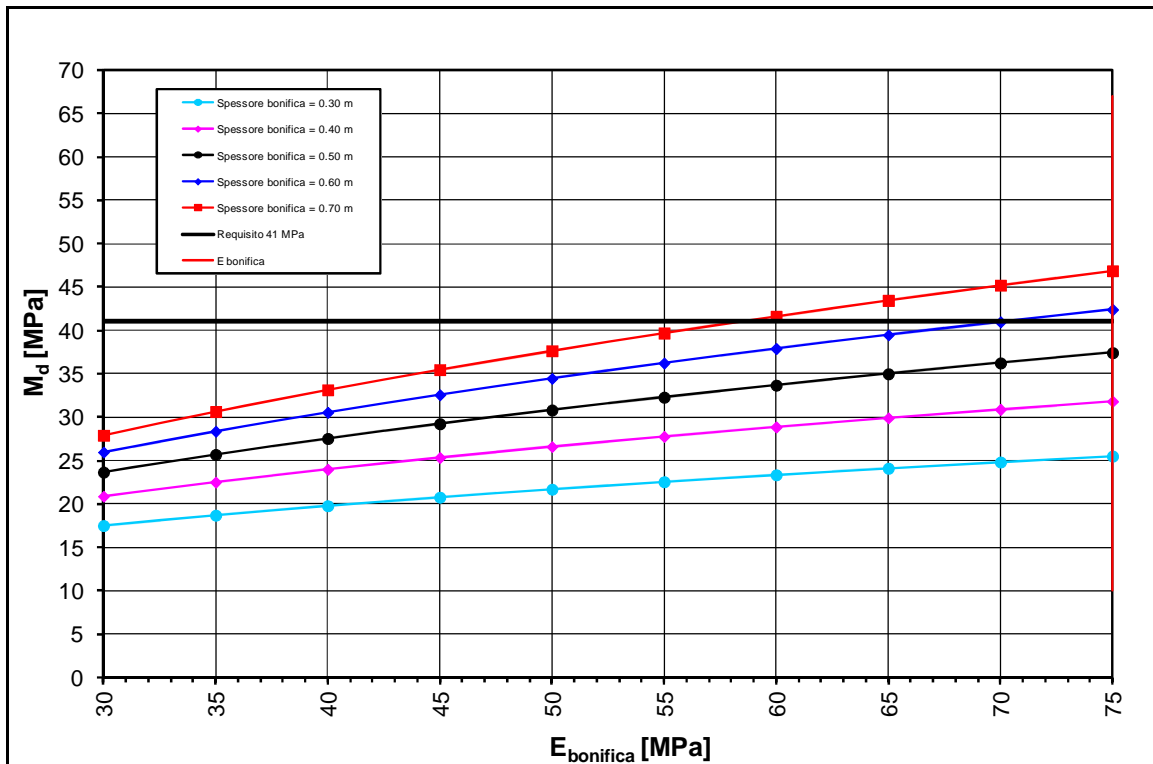


FIGURA 2-10: TRATTO 10 – DETERMINAZIONE SPESSORE DI BONIFICA.

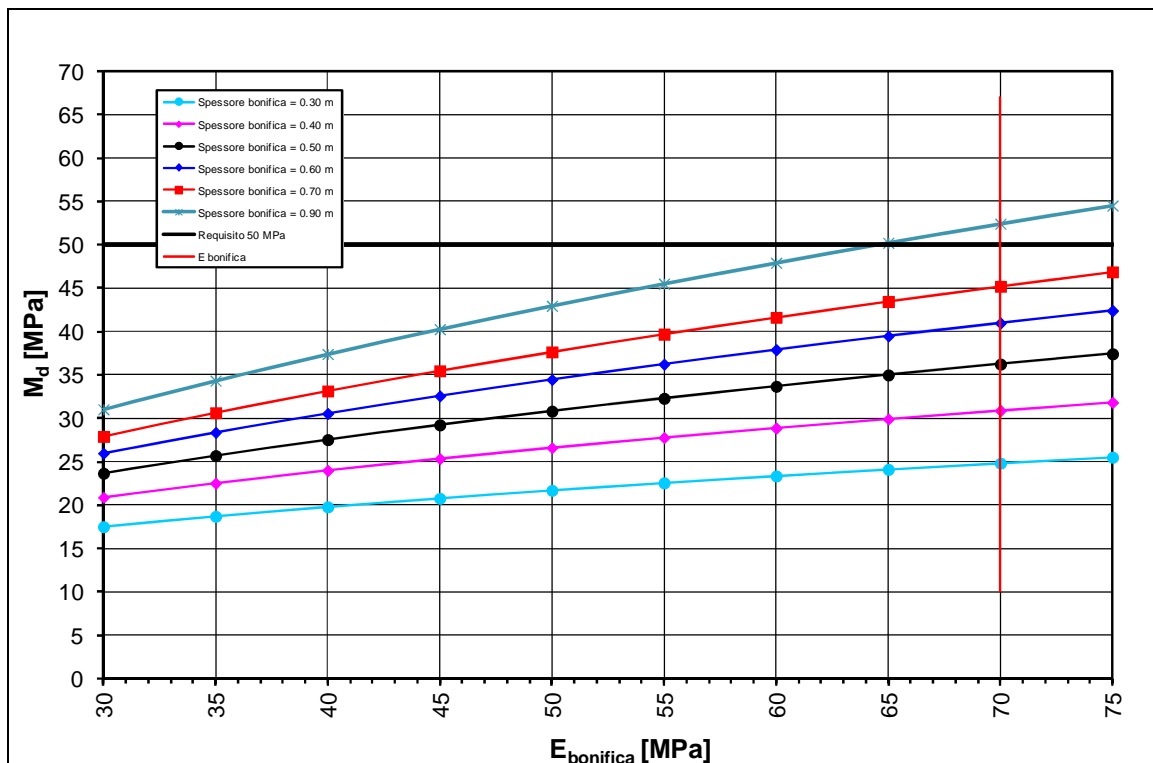


FIGURA 2-11: TRATTO 10A – DETERMINAZIONE SPESSORE DI BONIFICA.

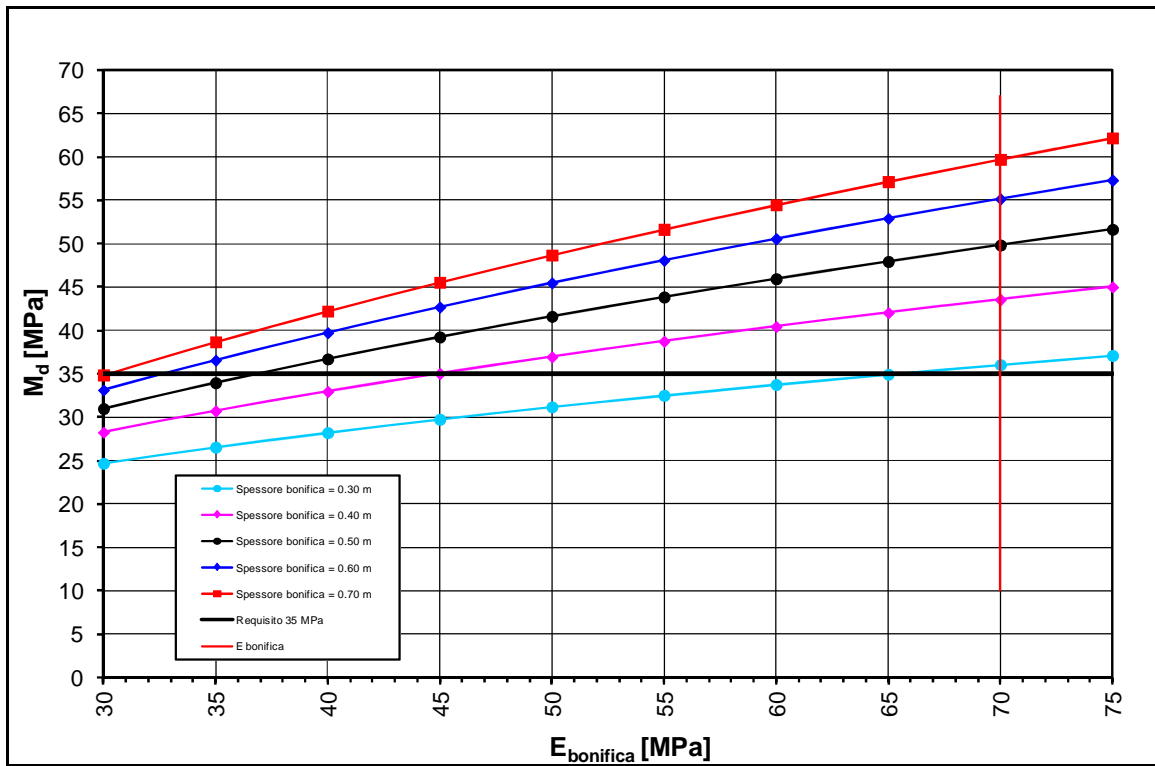


FIGURA 2-12: TRATTO 12 – DETERMINAZIONE SPESSORE DI BONIFICA.

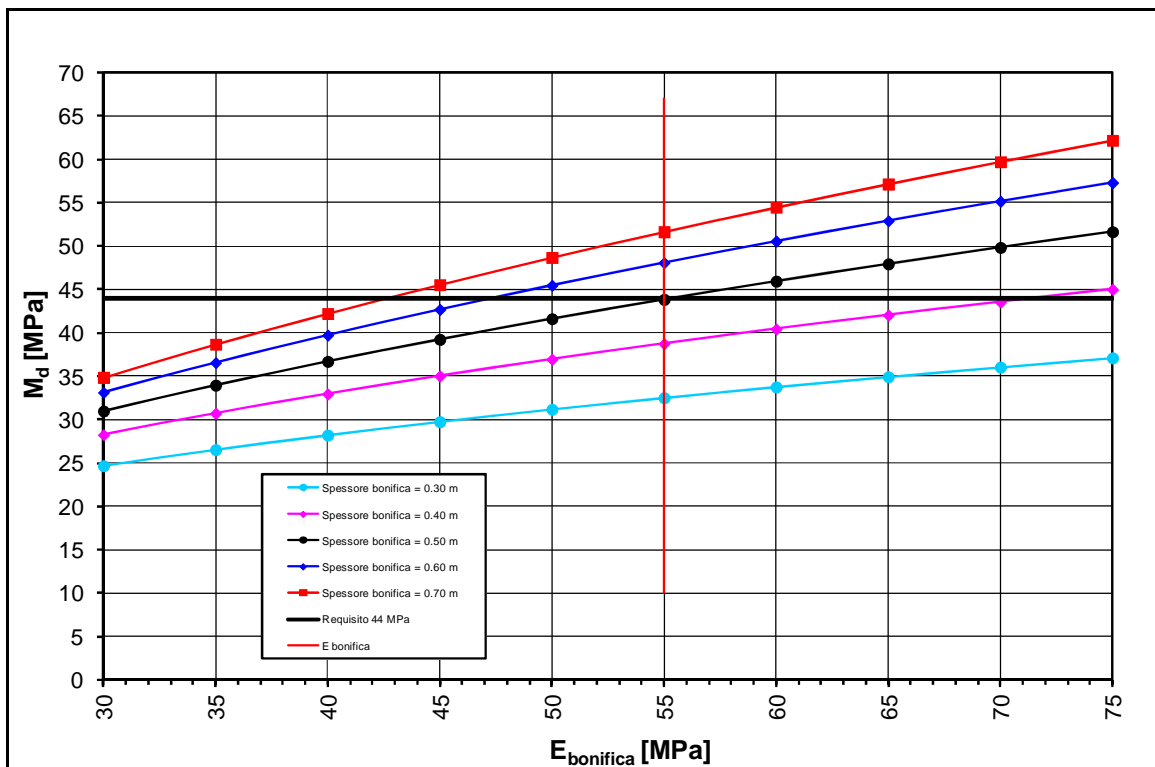


FIGURA 2-13: TRATTO 13 – DETERMINAZIONE SPESSORE DI BONIFICA.

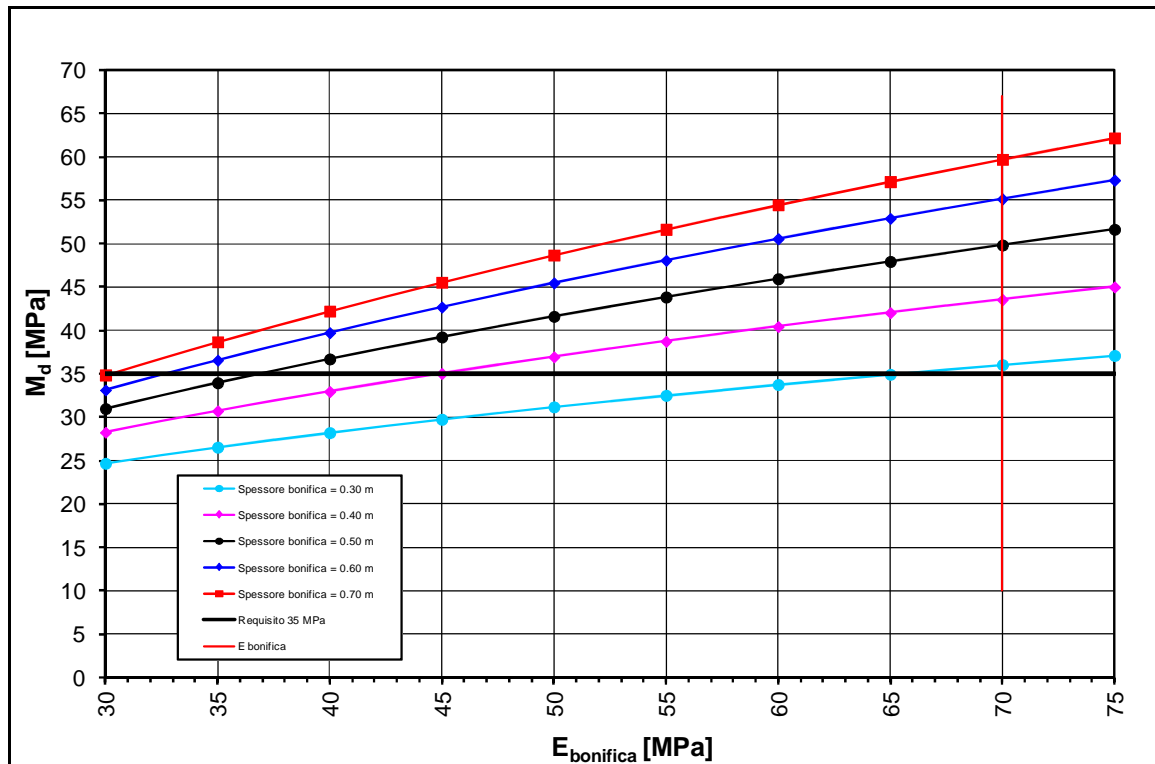


FIGURA 2-14: TRATTO 14 – DETERMINAZIONE SPESSORE DI BONIFICA.

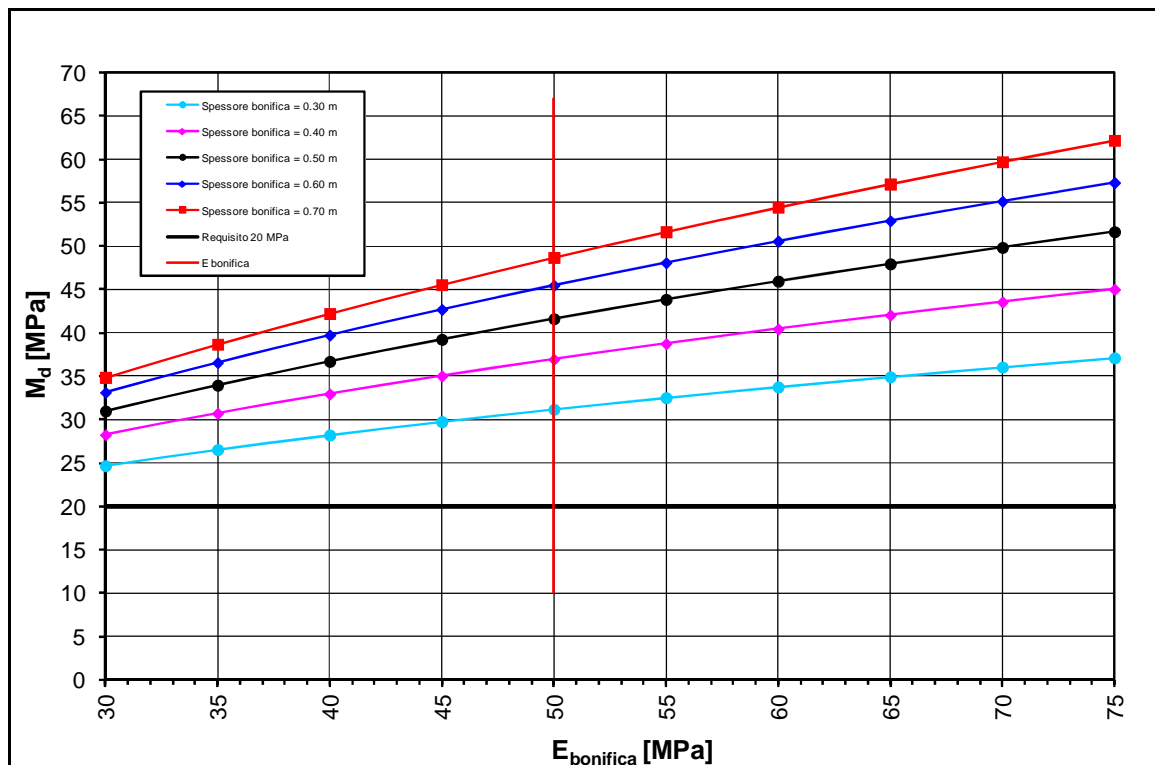


FIGURA 2-15: TRATTO 15 – DETERMINAZIONE SPESSORE DI BONIFICA.

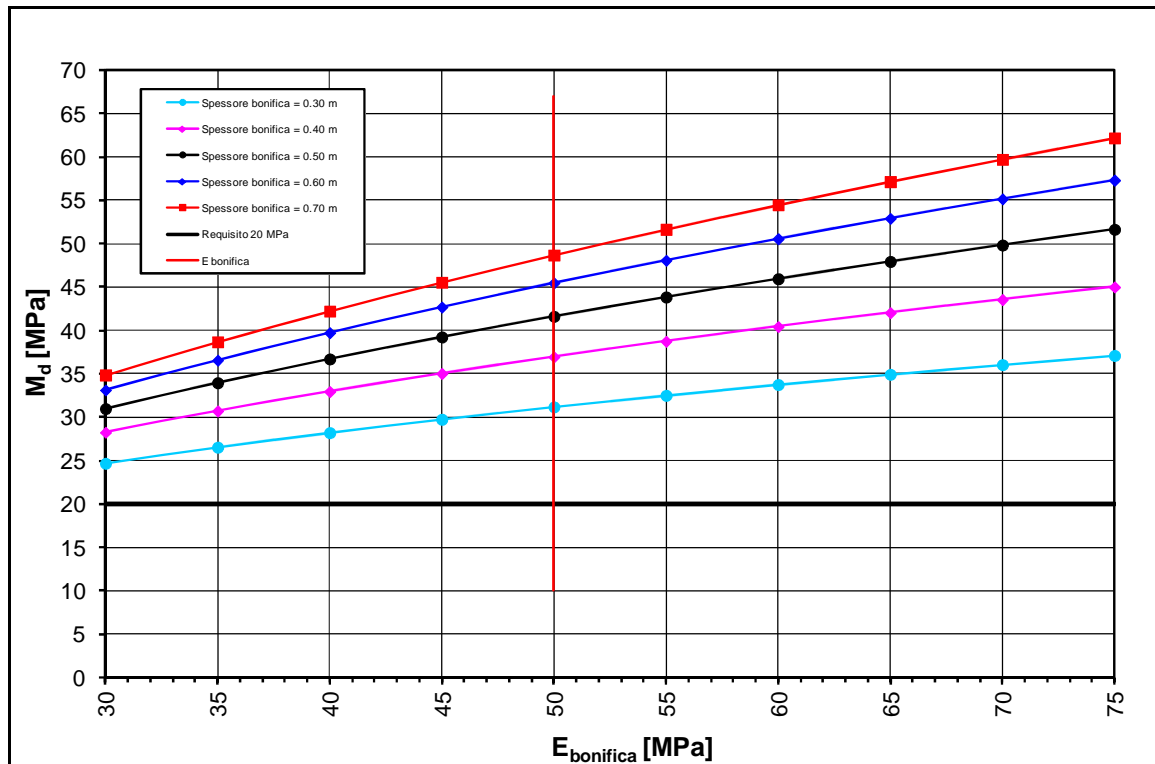


FIGURA 2-16: TRATTO 16 – DETERMINAZIONE SPESSORE DI BONIFICA.

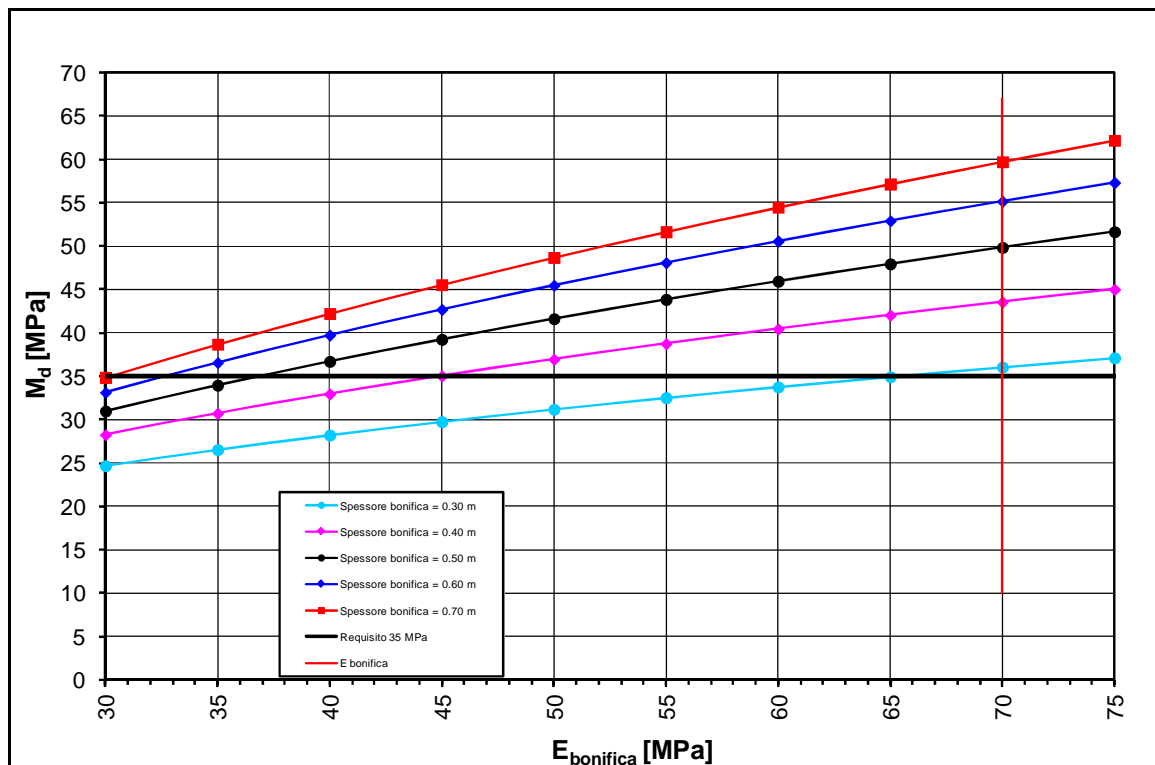


FIGURA 2-17: TRATTO 17 – DETERMINAZIONE SPESSORE DI BONIFICA.

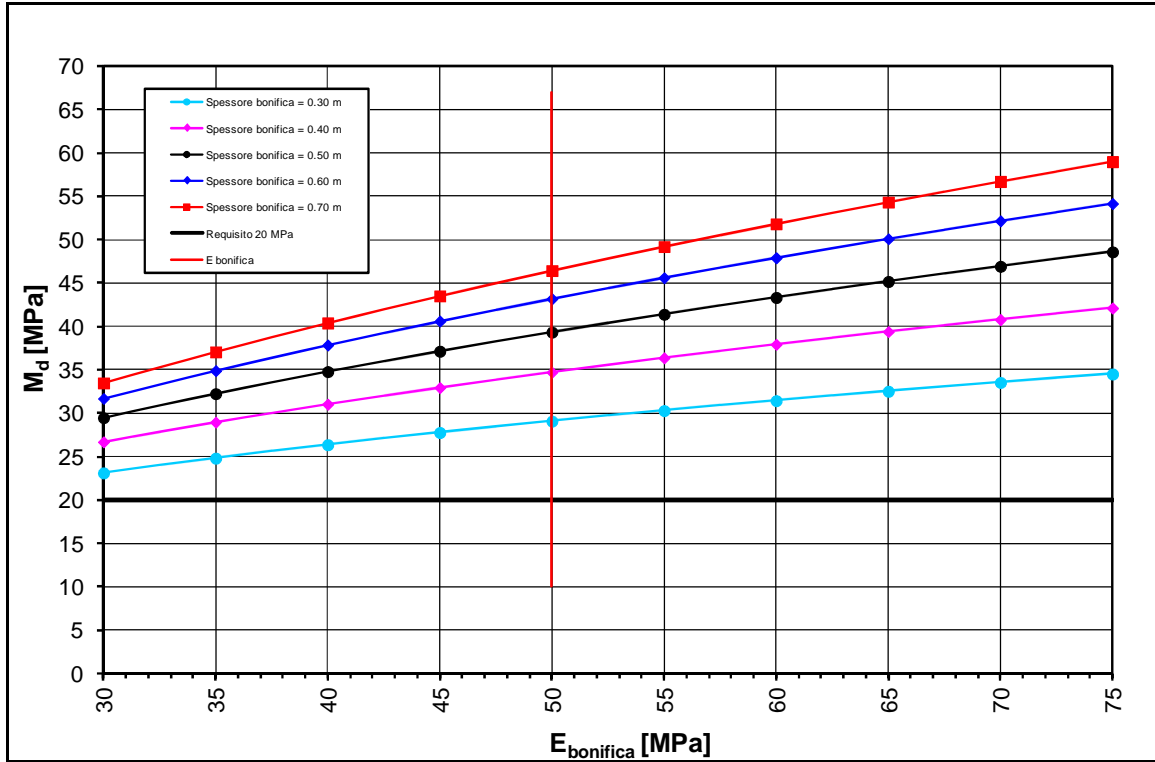


FIGURA 2-18: TRATTO 18 – DETERMINAZIONE SPESSORE DI BONIFICA.

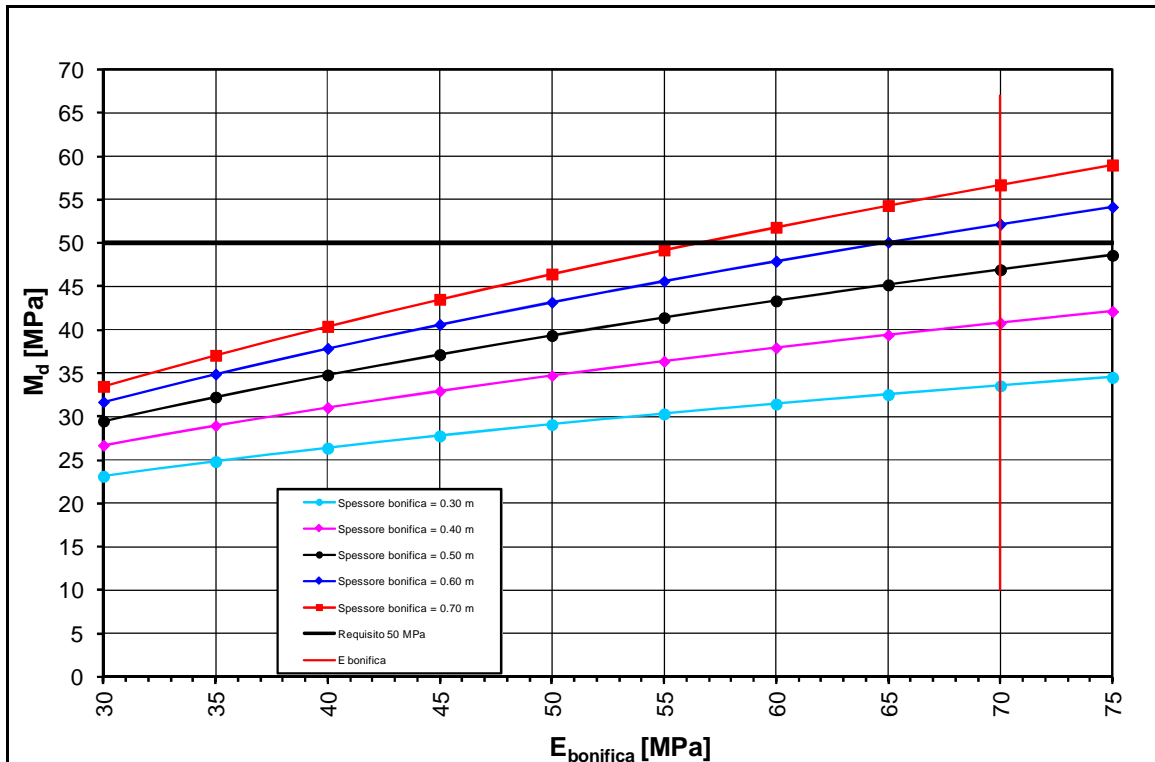


FIGURA 2-19: TRATTO 19 – DETERMINAZIONE SPESSORE DI BONIFICA.

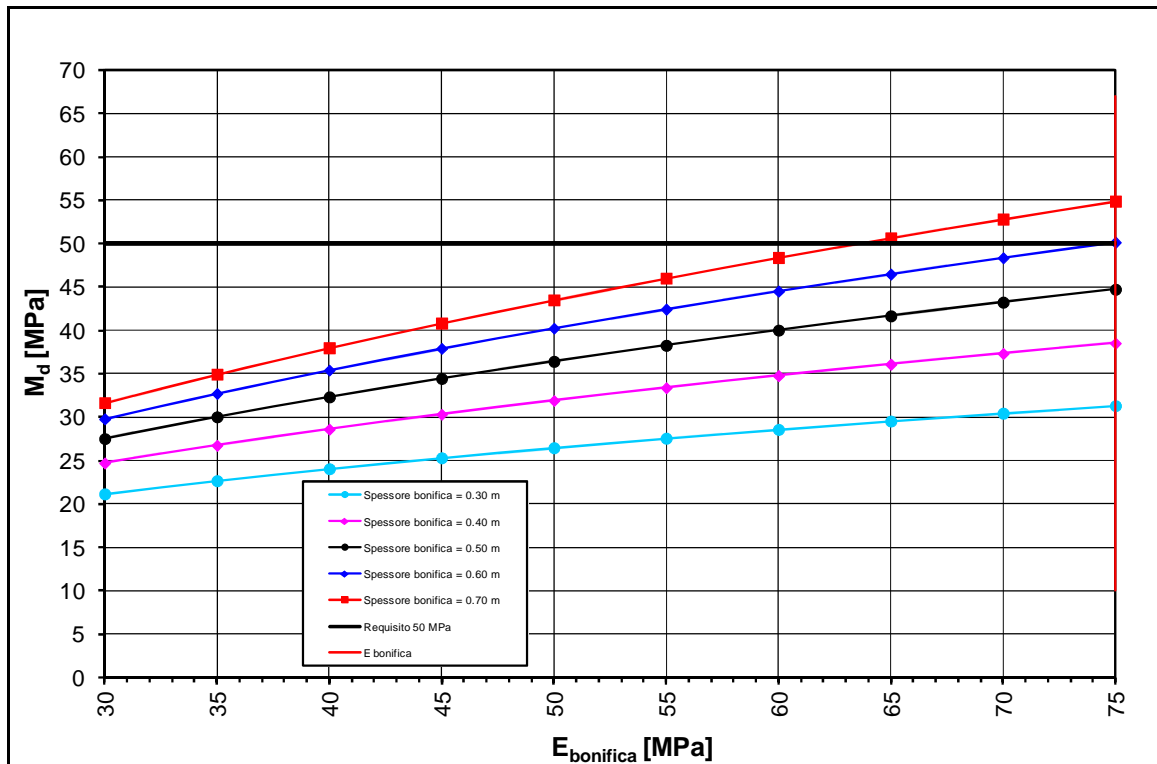


FIGURA 2-20: TRATTO 21 – DETERMINAZIONE SPESSORE DI BONIFICA.

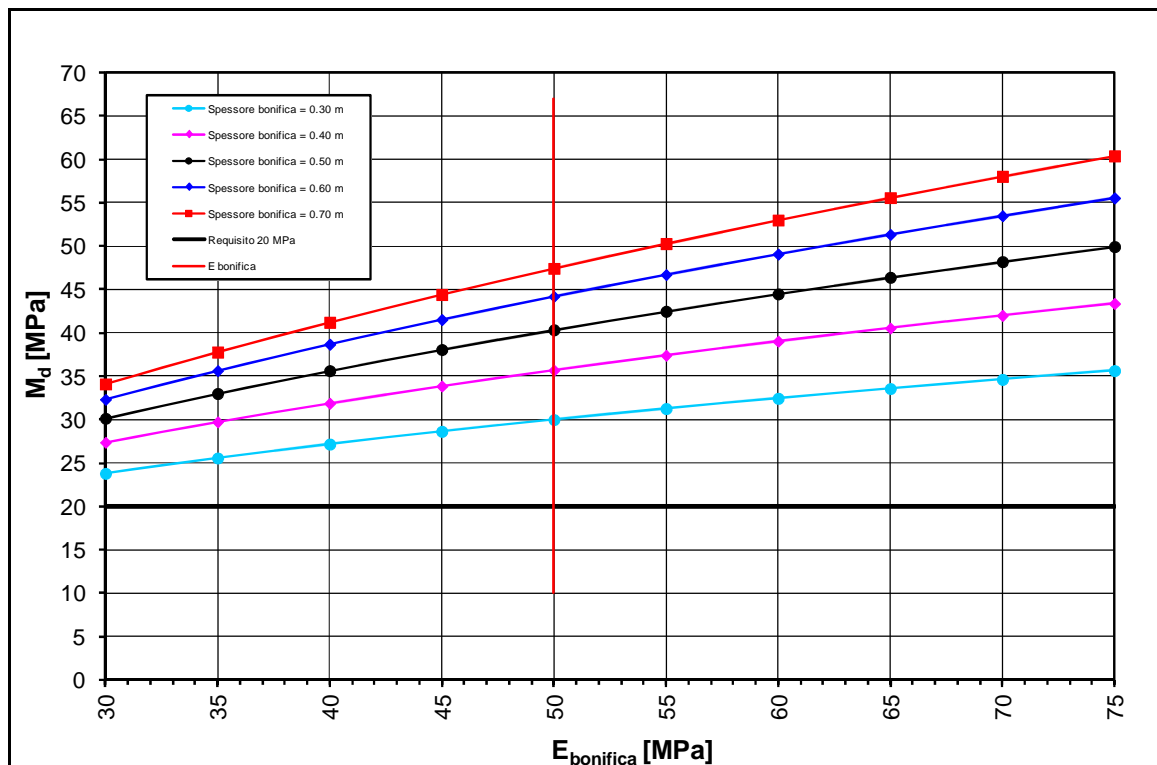


FIGURA 2-21: TRATTO 22 – DETERMINAZIONE SPESSORE DI BONIFICA.

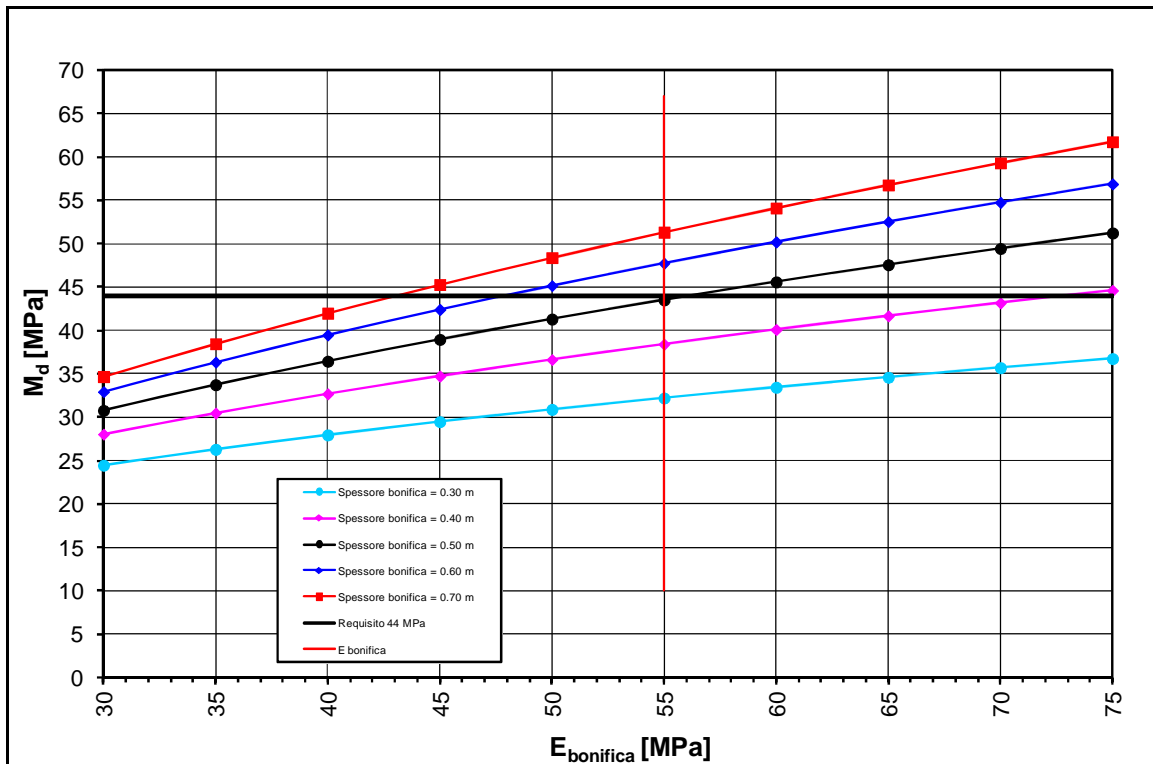


FIGURA 2-22: TRATTO 23 – DETERMINAZIONE SPESSORE DI BONIFICA.

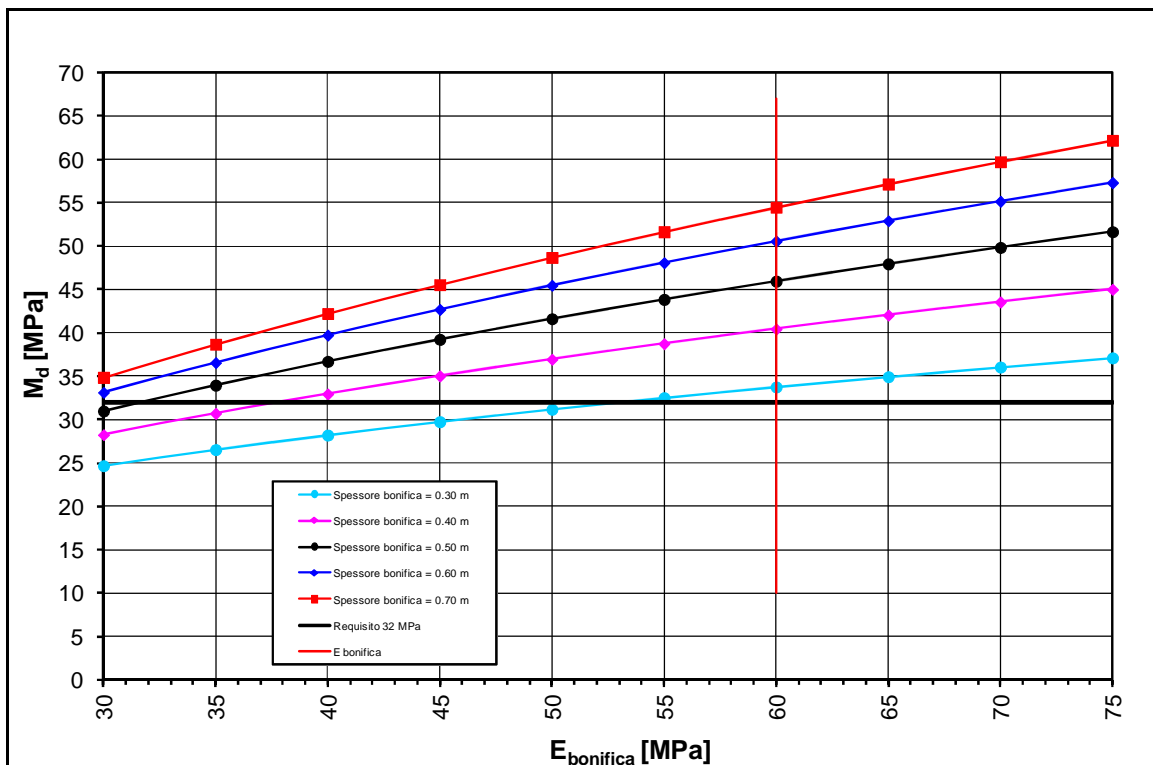


FIGURA 2-23: TRATTO 24 – DETERMINAZIONE SPESSORE DI BONIFICA.

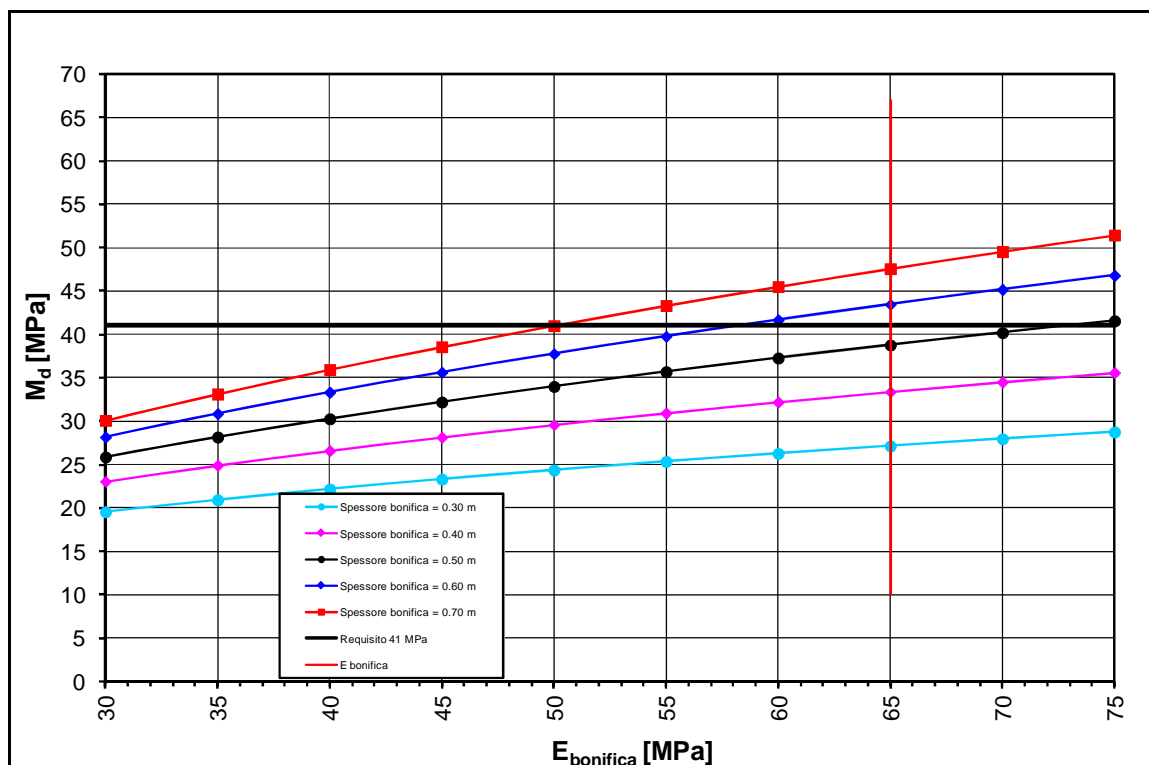


FIGURA 2-24: TRATTO 25 – DETERMINAZIONE SPESSORE DI BONIFICA.

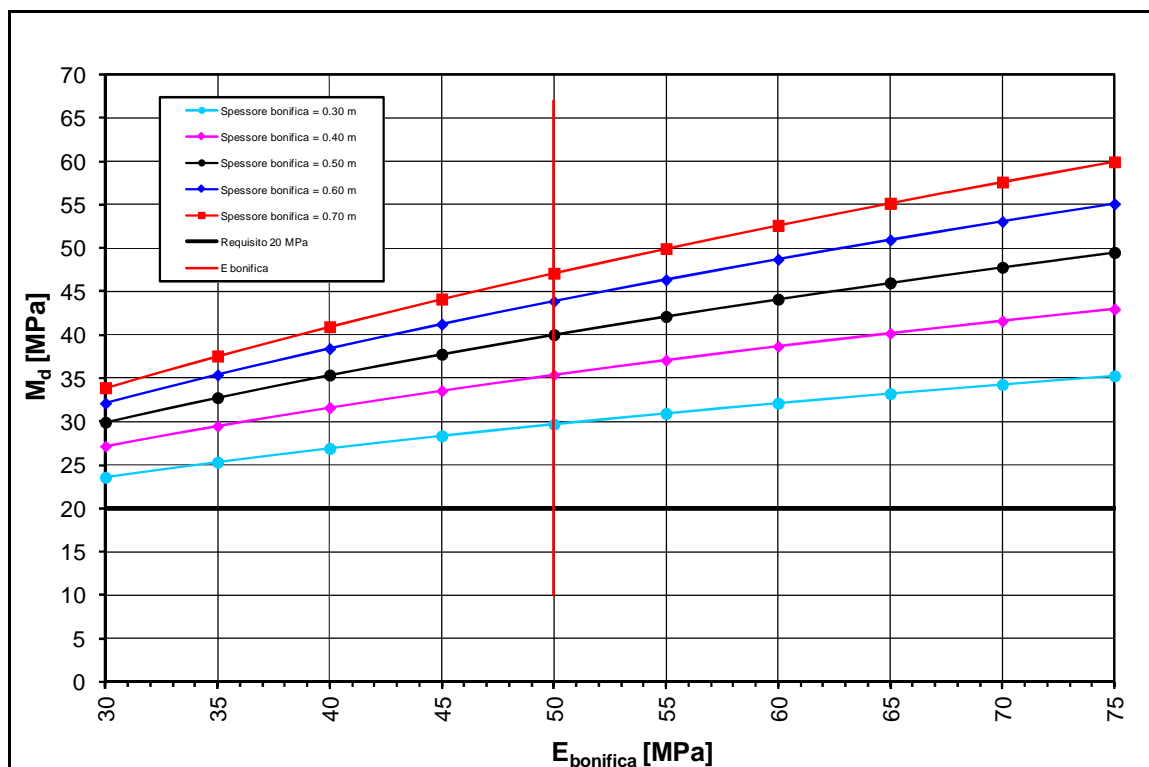


FIGURA 2-25: TRATTO 26 – DETERMINAZIONE SPESSORE DI BONIFICA.

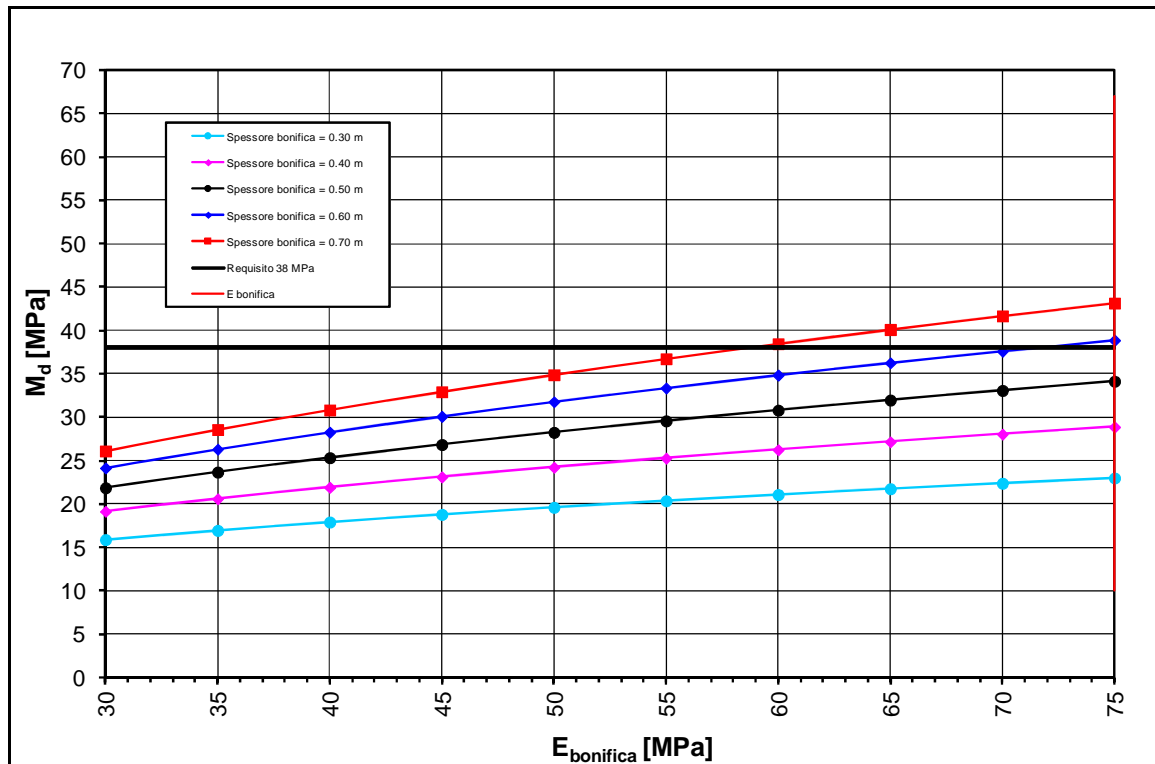


FIGURA 2-26: TRATTO 27 – DETERMINAZIONE SPESSORE DI BONIFICA.

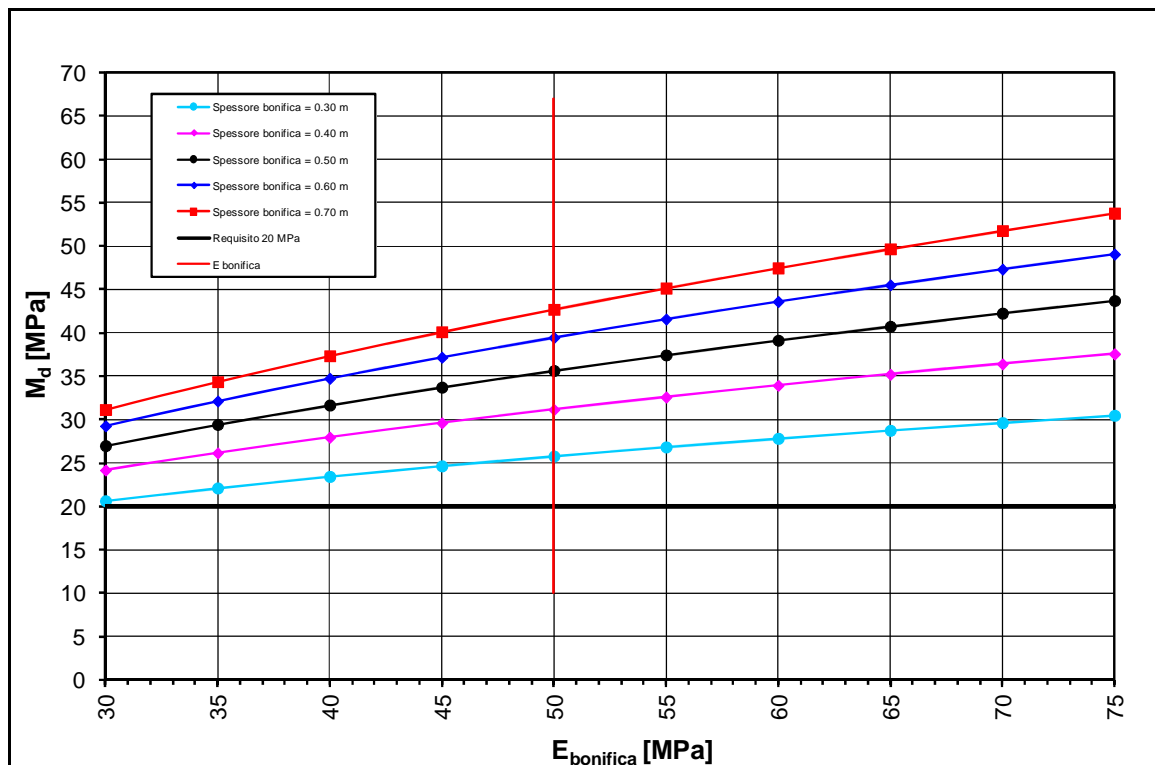


FIGURA 2-27: TRATTO 28 – DETERMINAZIONE SPESSORE DI BONIFICA.

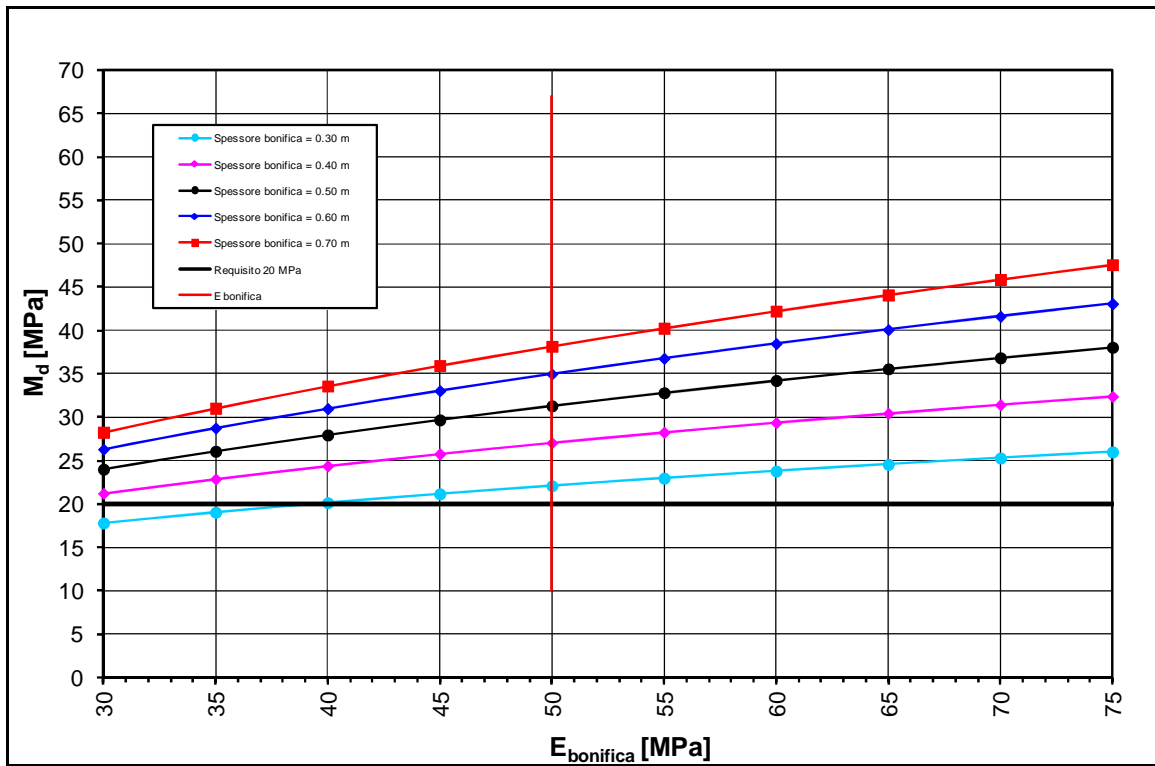


FIGURA 2-28: TRATTO 29 – DETERMINAZIONE SPESSORE DI BONIFICA.

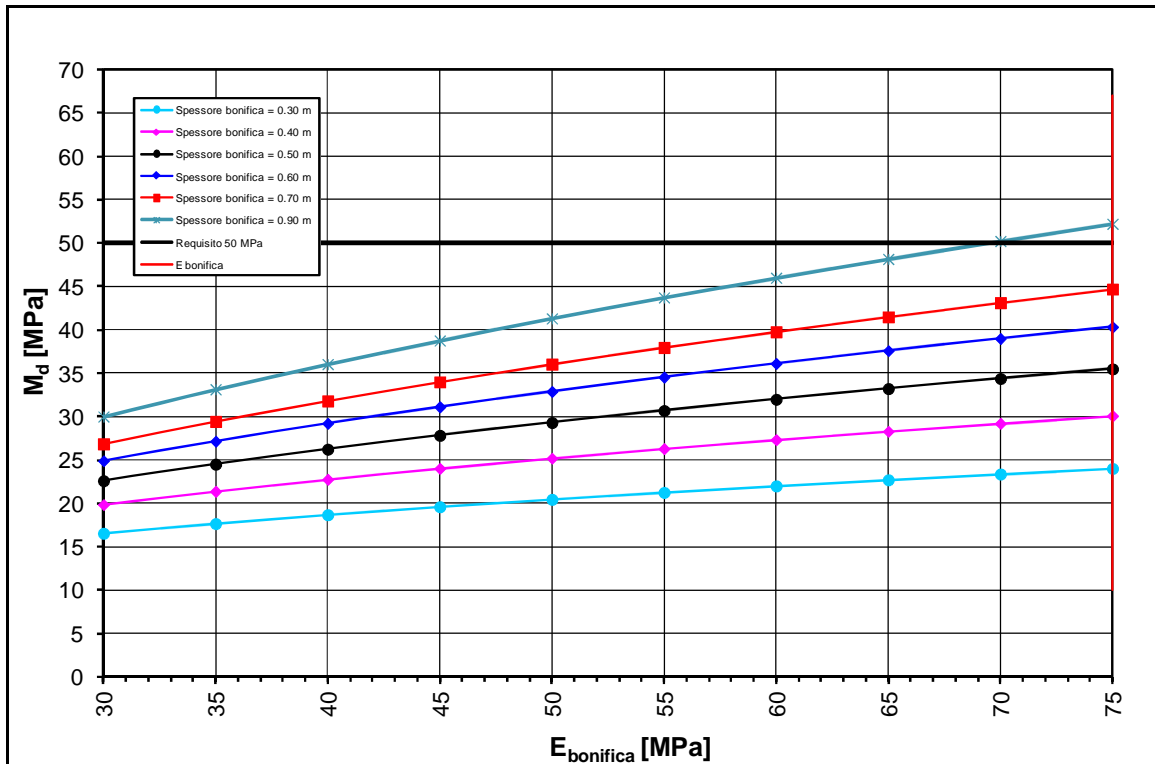


FIGURA 2-29: TRATTO 30 – DETERMINAZIONE SPESSORE DI BONIFICA.

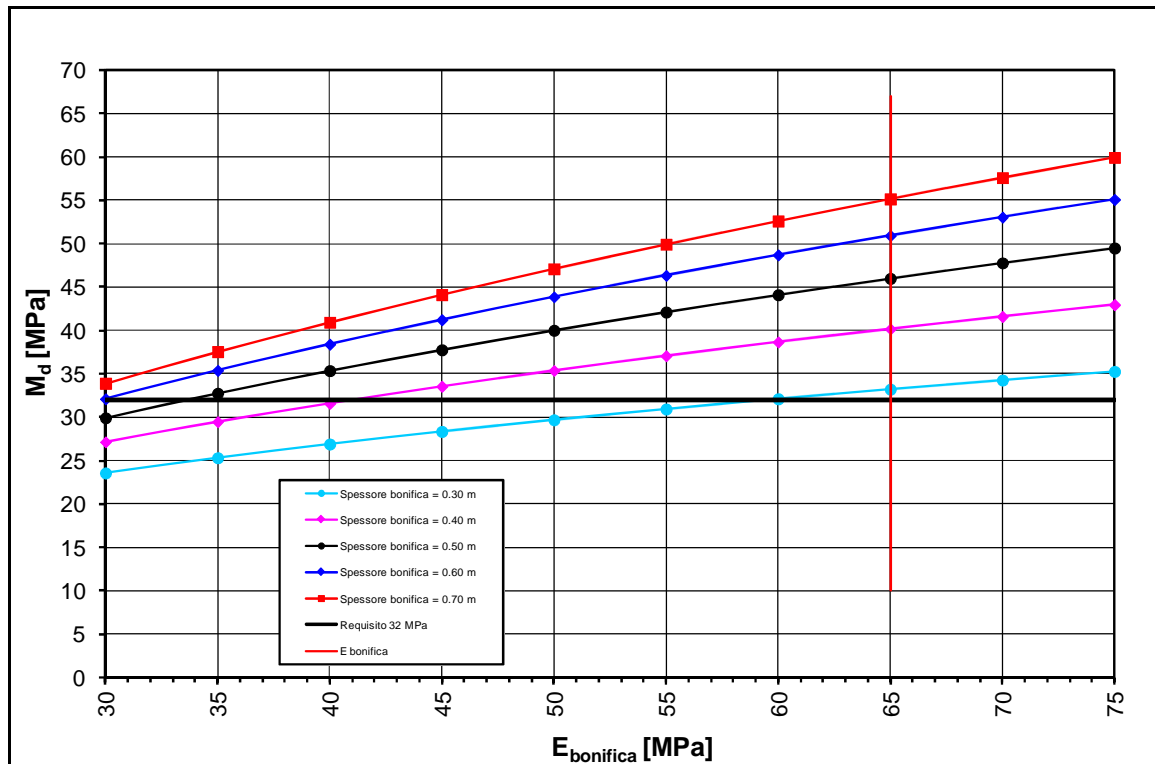


FIGURA 2-30: TRATTO 31 – DETERMINAZIONE SPESSORE DI BONIFICA.

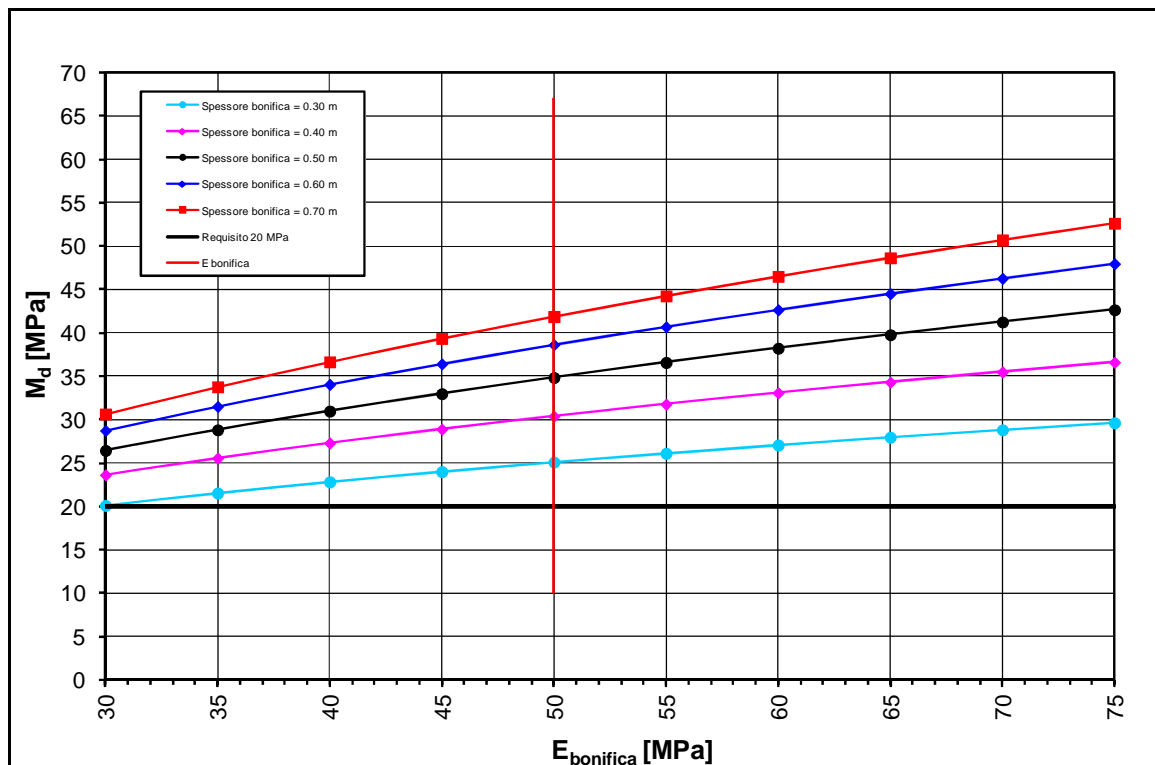


FIGURA 2-31: TRATTO 32 – DETERMINAZIONE SPESSORE DI BONIFICA.

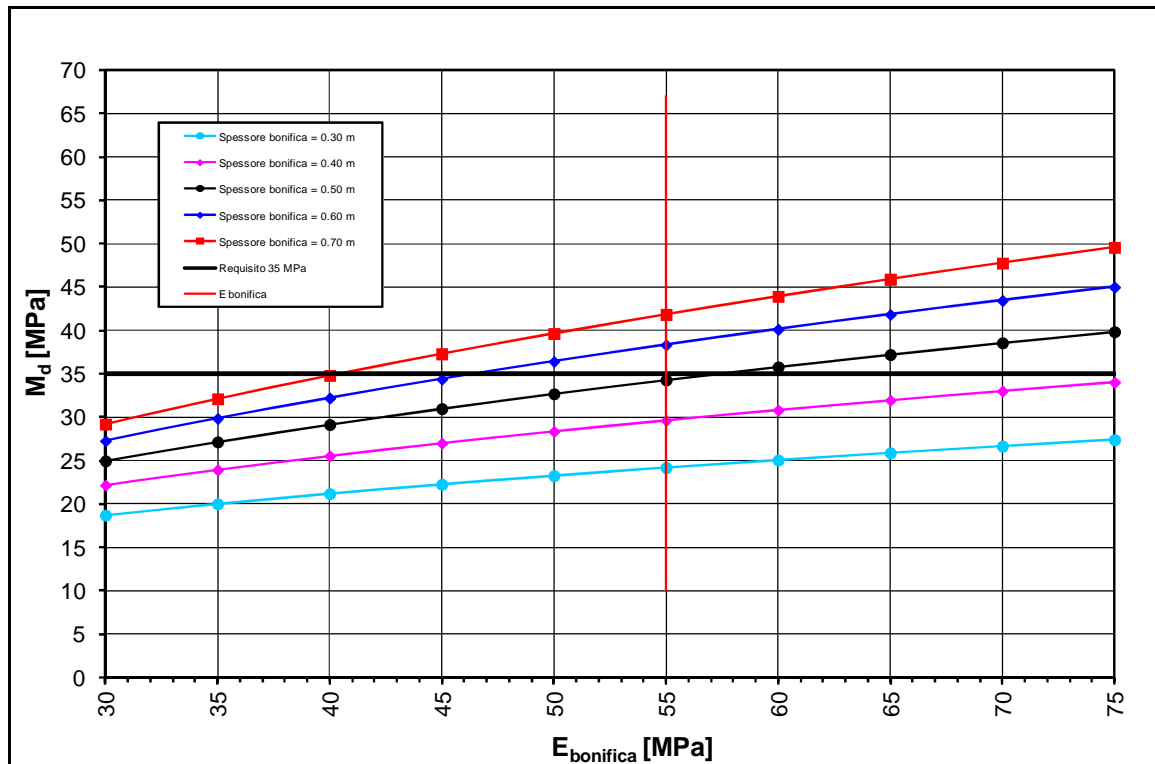


FIGURA 2-32: TRATTO 33 – DETERMINAZIONE SPESSORE DI BONIFICA.

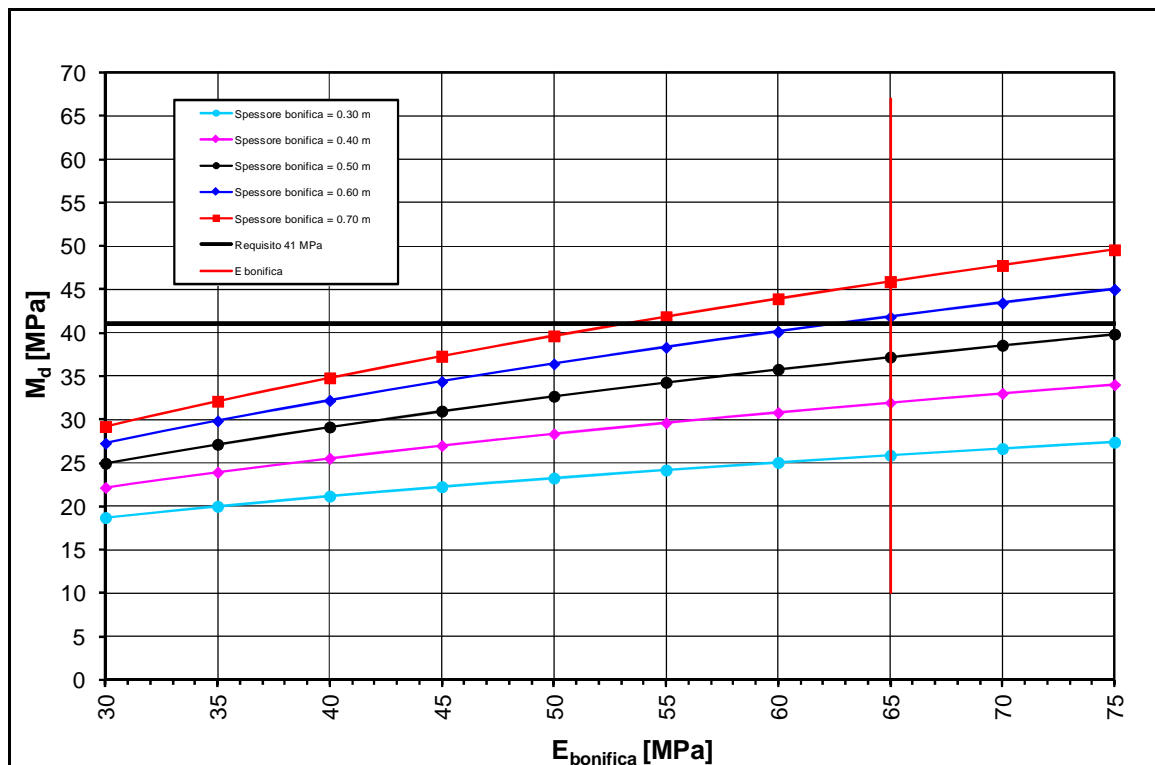


FIGURA 2-33: TRATTO 34 – DETERMINAZIONE SPESSORE DI BONIFICA.

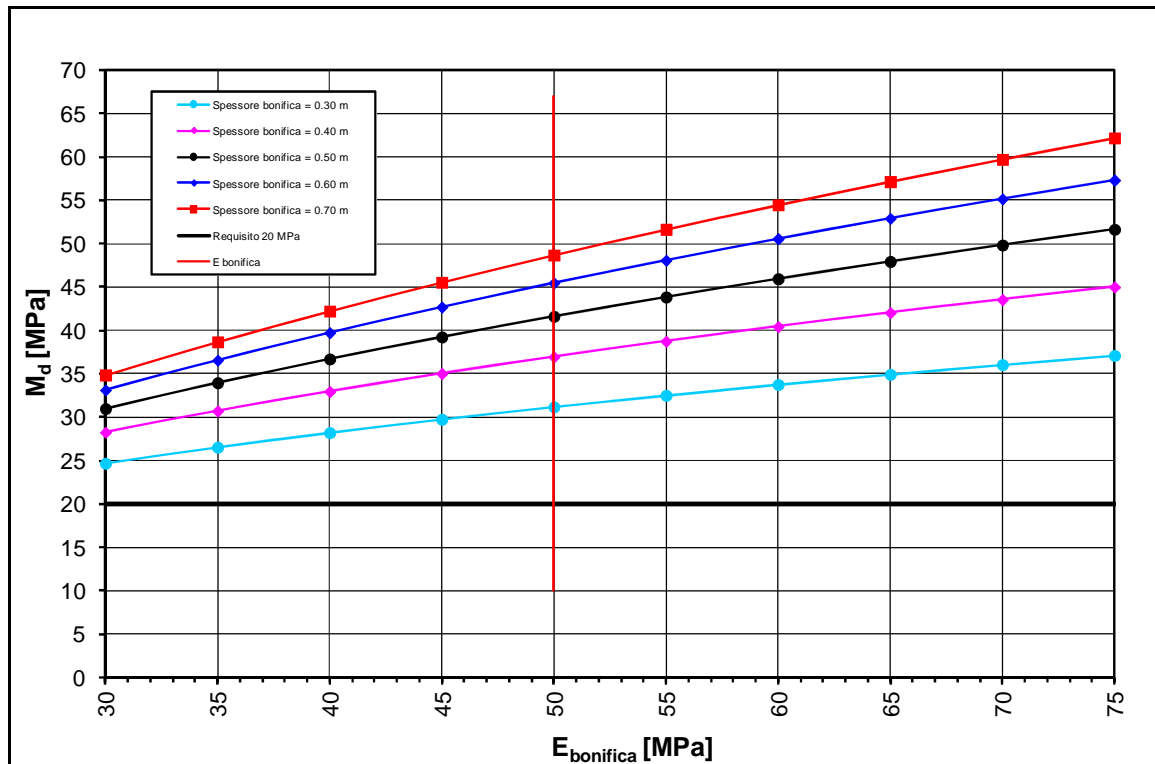


FIGURA 2-34: TRATTO 35 – DETERMINAZIONE SPESSORE DI BONIFICA.

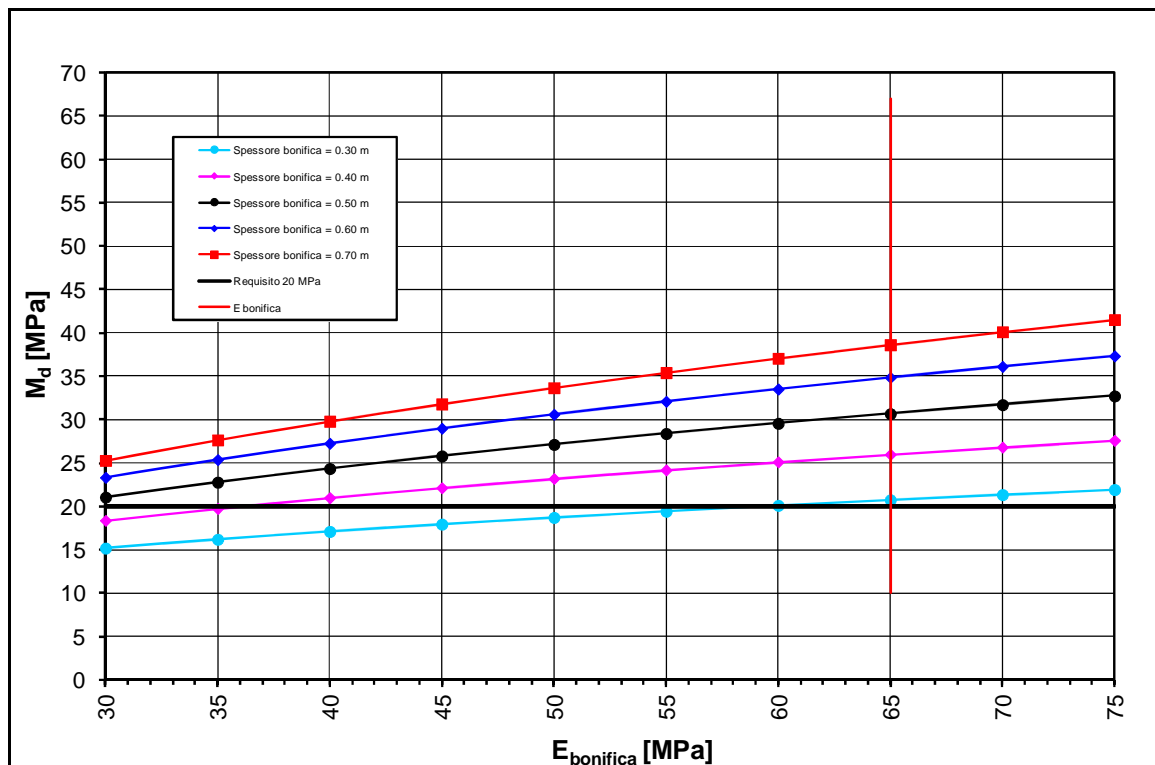


FIGURA 2-35: TRATTO 36 – DETERMINAZIONE SPESSORE DI BONIFICA.

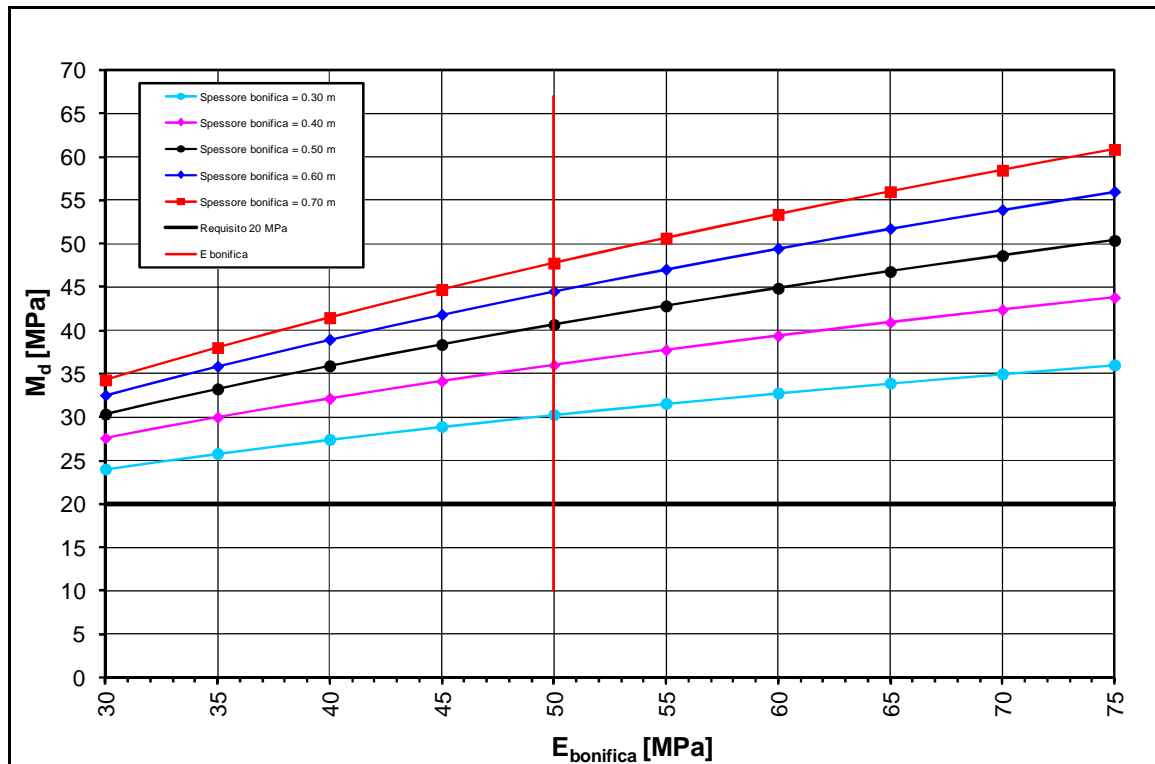


FIGURA 2-36: TRATTO 37 – DETERMINAZIONE SPESSORE DI BONIFICA.

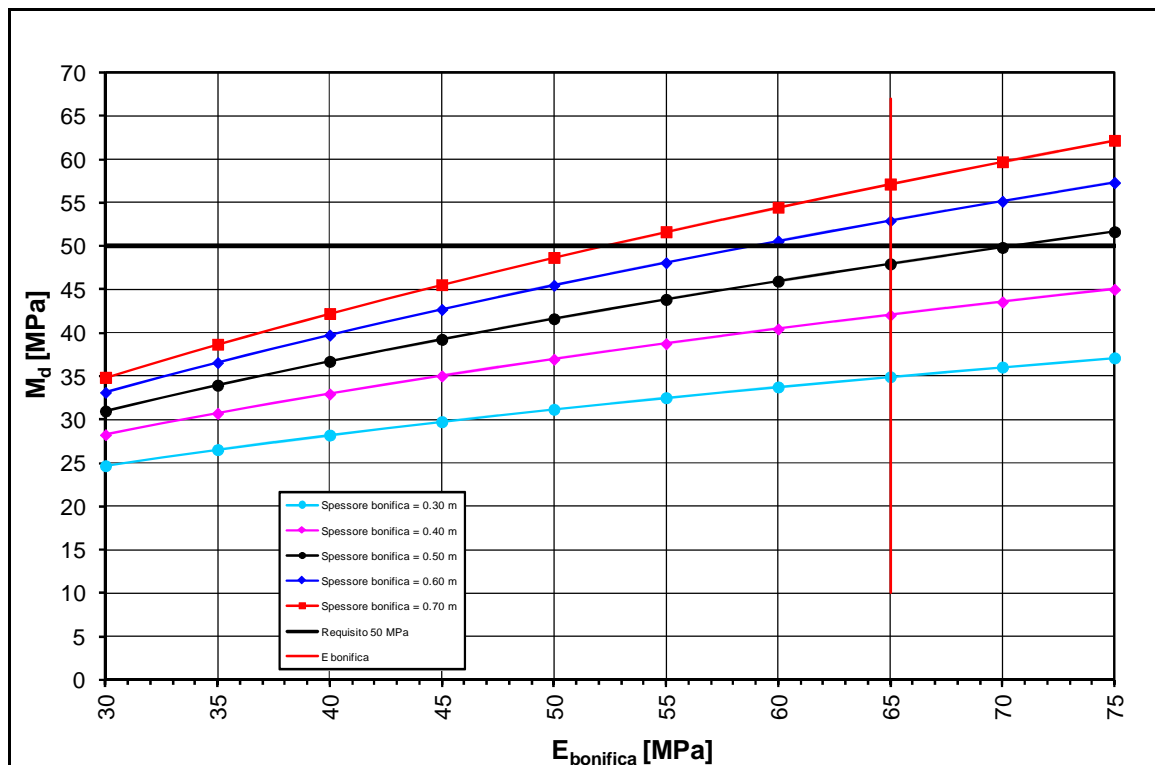


FIGURA 2-37: TRATTO 38 – DETERMINAZIONE SPESSORE DI BONIFICA.

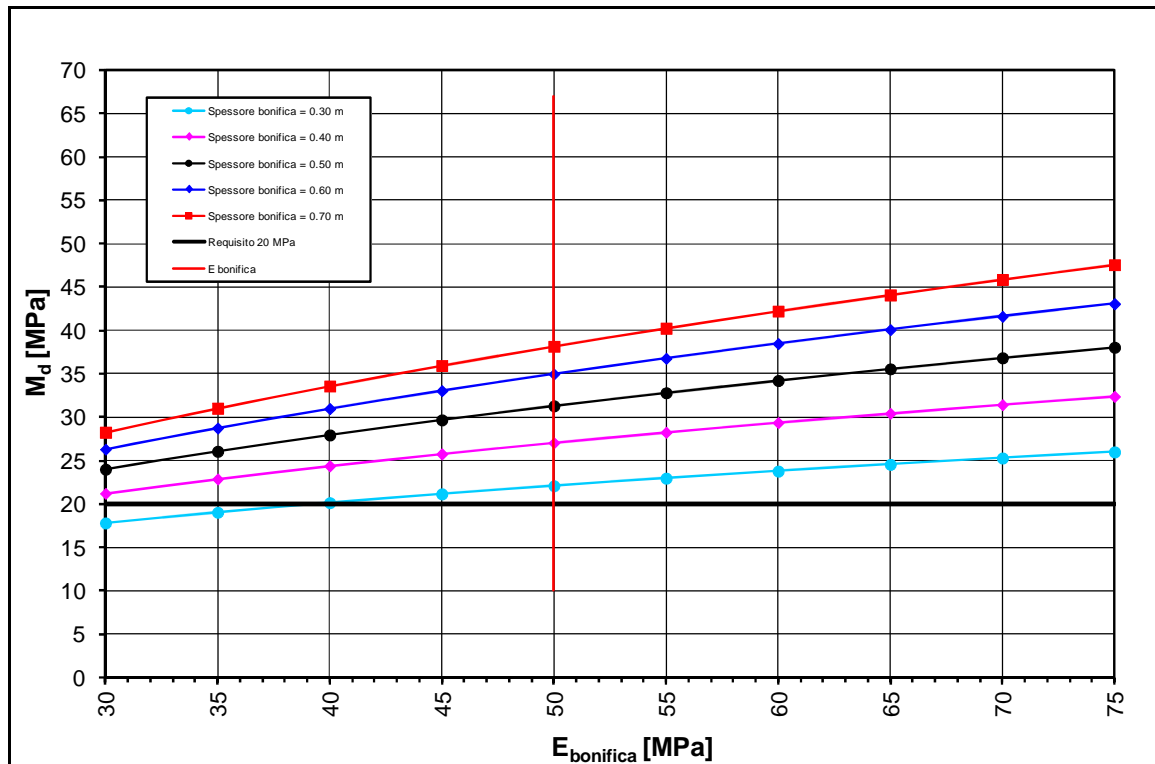


FIGURA 2-38: TRATTO 39 – DETERMINAZIONE SPESSORE DI BONIFICA.

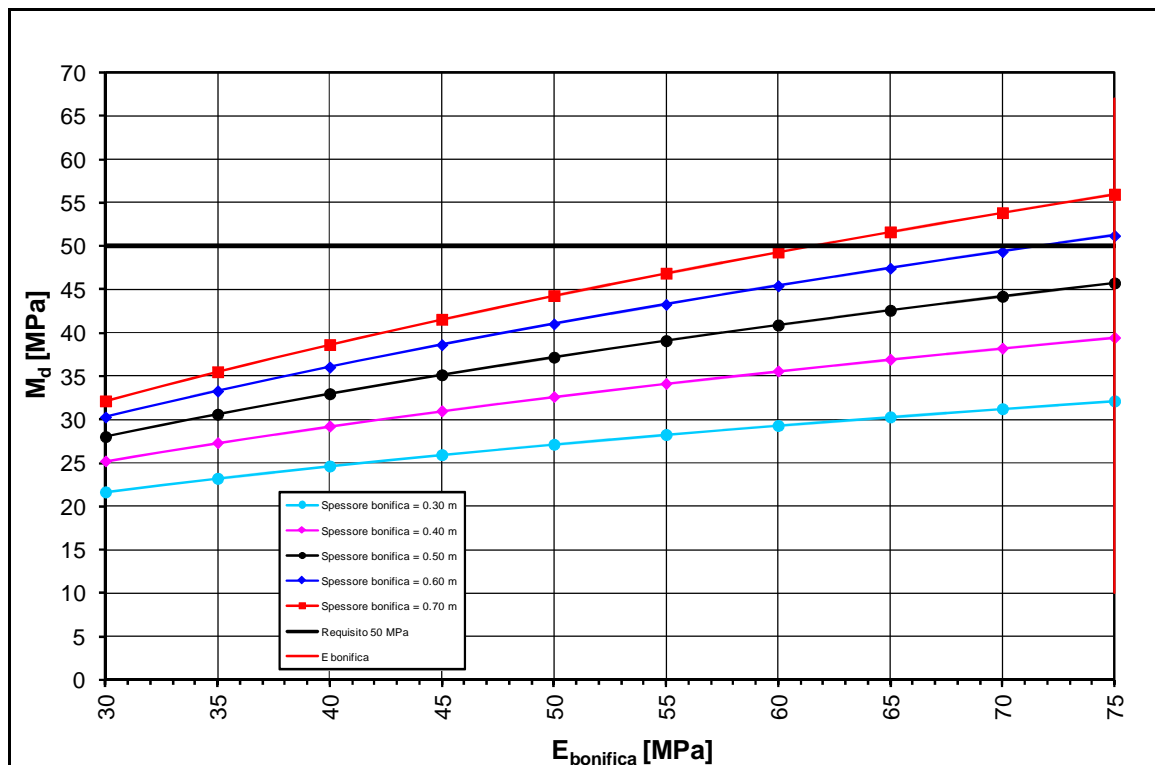


FIGURA 2-39: TRATTO 40 – DETERMINAZIONE SPESSORE DI BONIFICA.

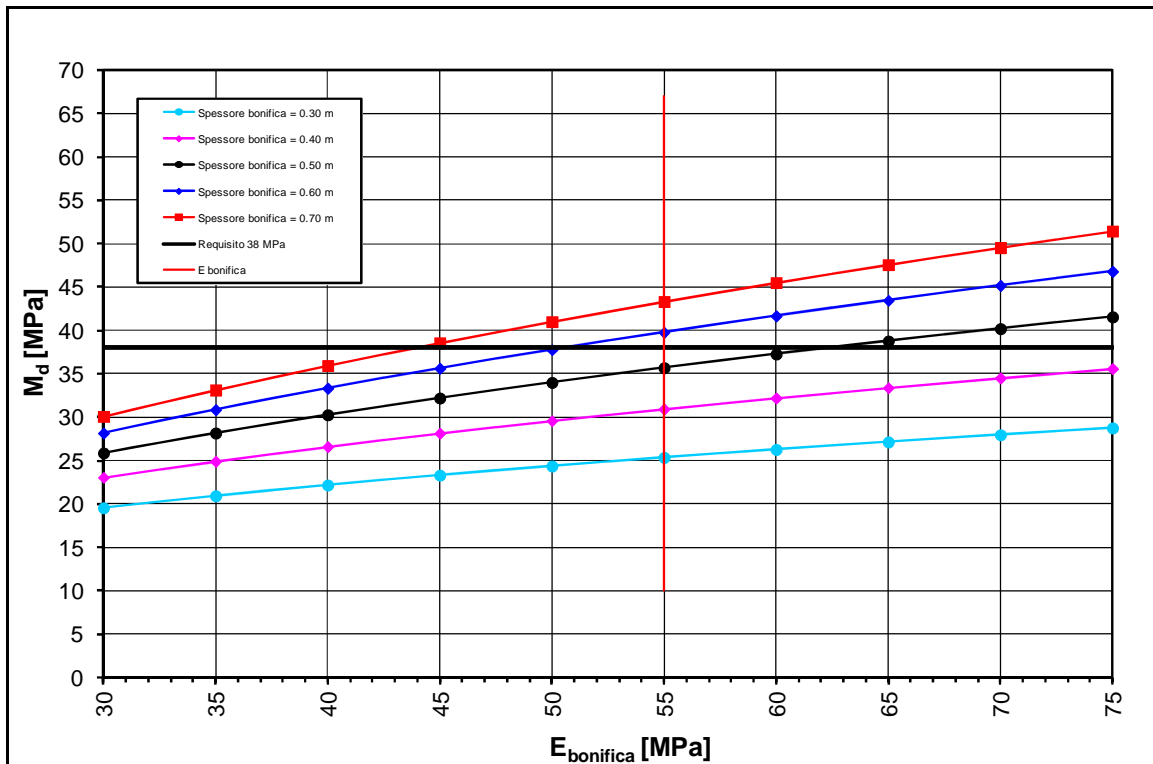


FIGURA 2-40: TRATTO 41 – DETERMINAZIONE SPESSORE DI BONIFICA.

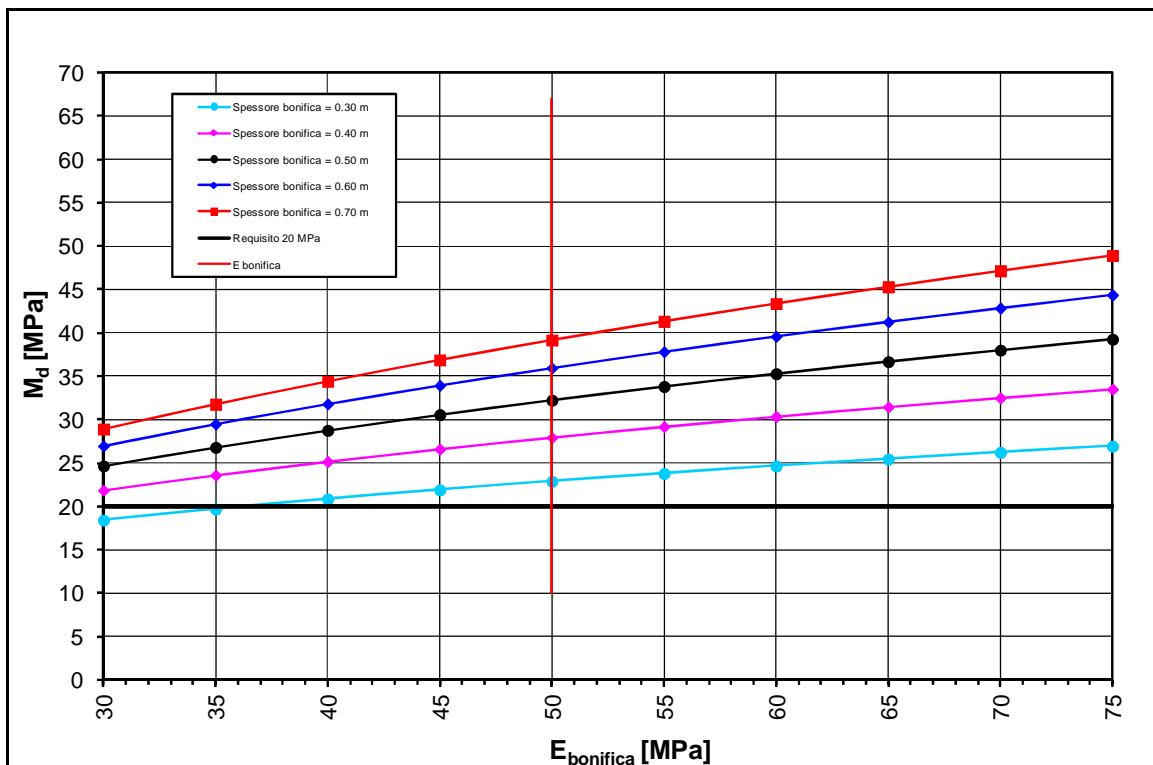


FIGURA 2-41: TRATTO 42, 43, 44 – DETERMINAZIONE SPESSORE DI BONIFICA.

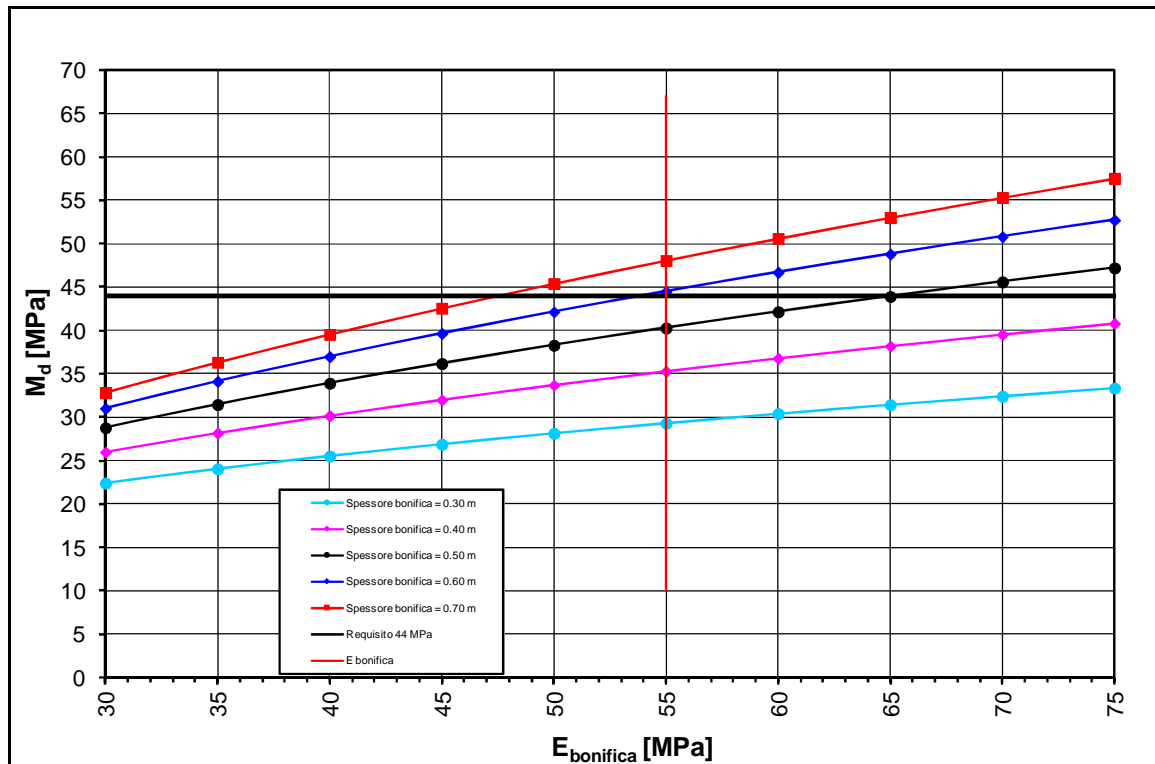


FIGURA 2-42: TRATTO 45 – DETERMINAZIONE SPESSORE DI BONIFICA.

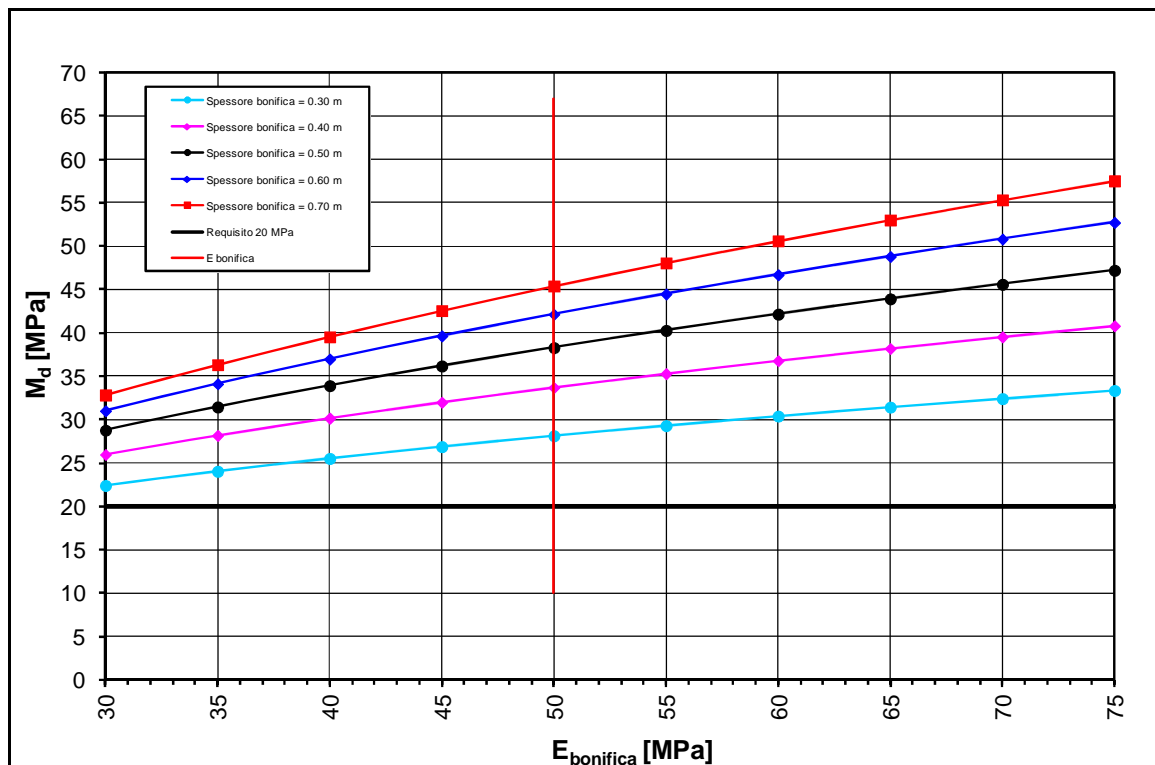


FIGURA 2-43: TRATTO 46 – DETERMINAZIONE SPESSORE DI BONIFICA.

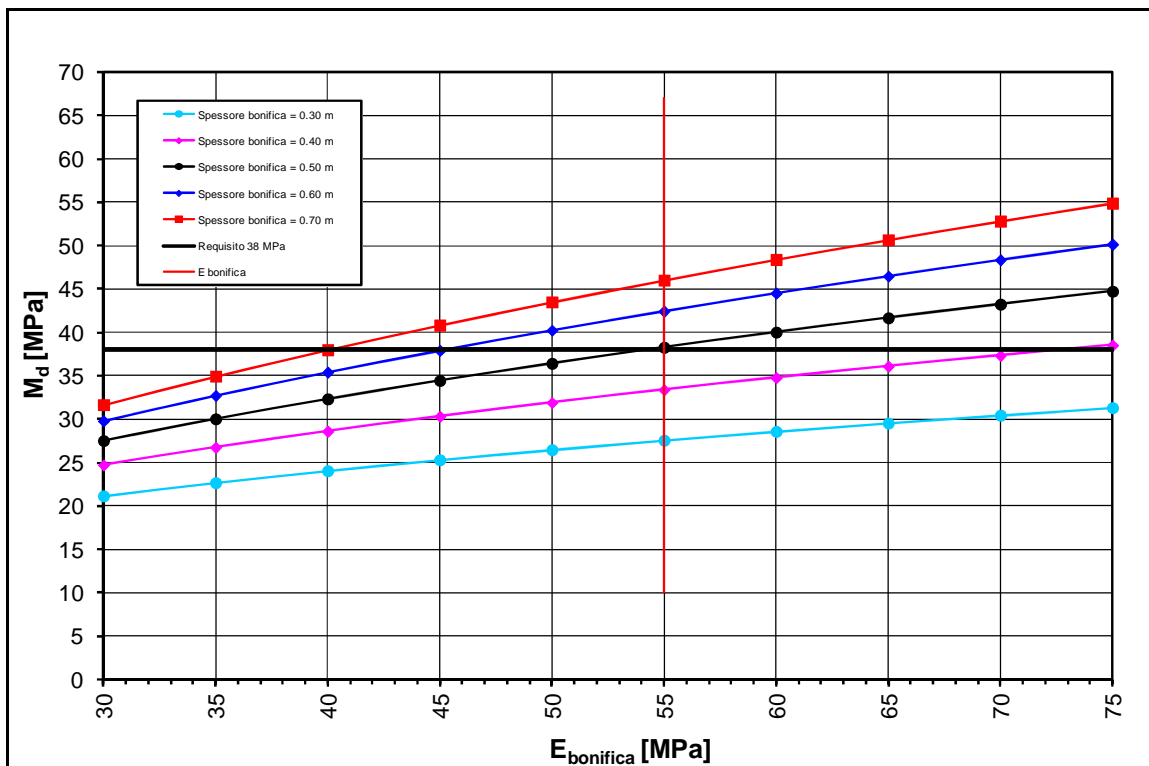


FIGURA 2-44: TRATTO 47 – DETERMINAZIONE SPESSORE DI BONIFICA.

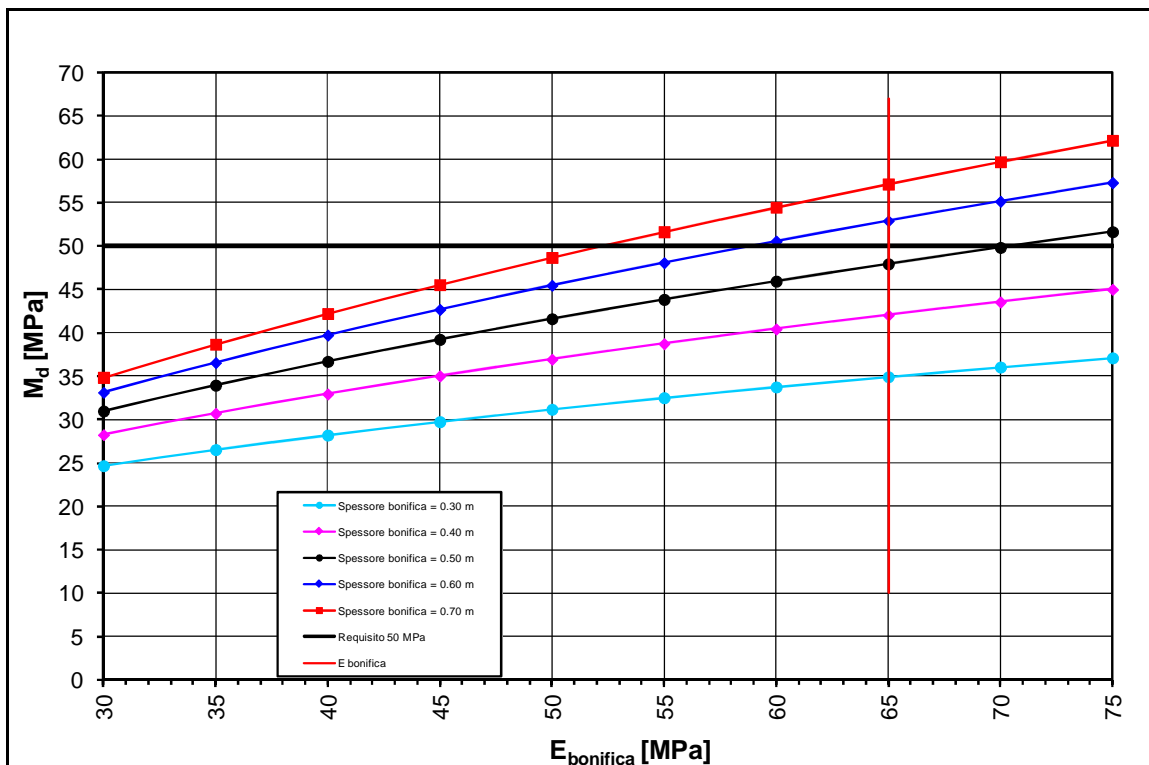


FIGURA 2-45: TRATTO 48 – DETERMINAZIONE SPESSORE DI BONIFICA.

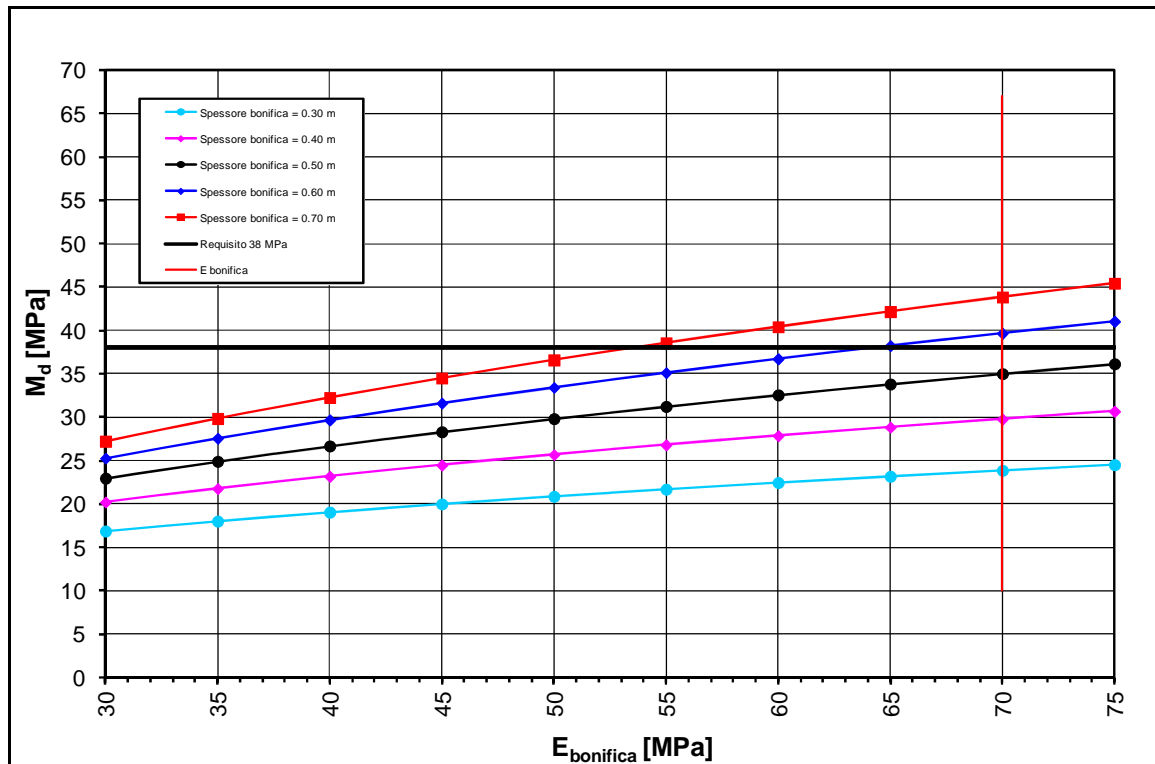


FIGURA 2-46: TRATTO 49 – DETERMINAZIONE SPESSORE DI BONIFICA.

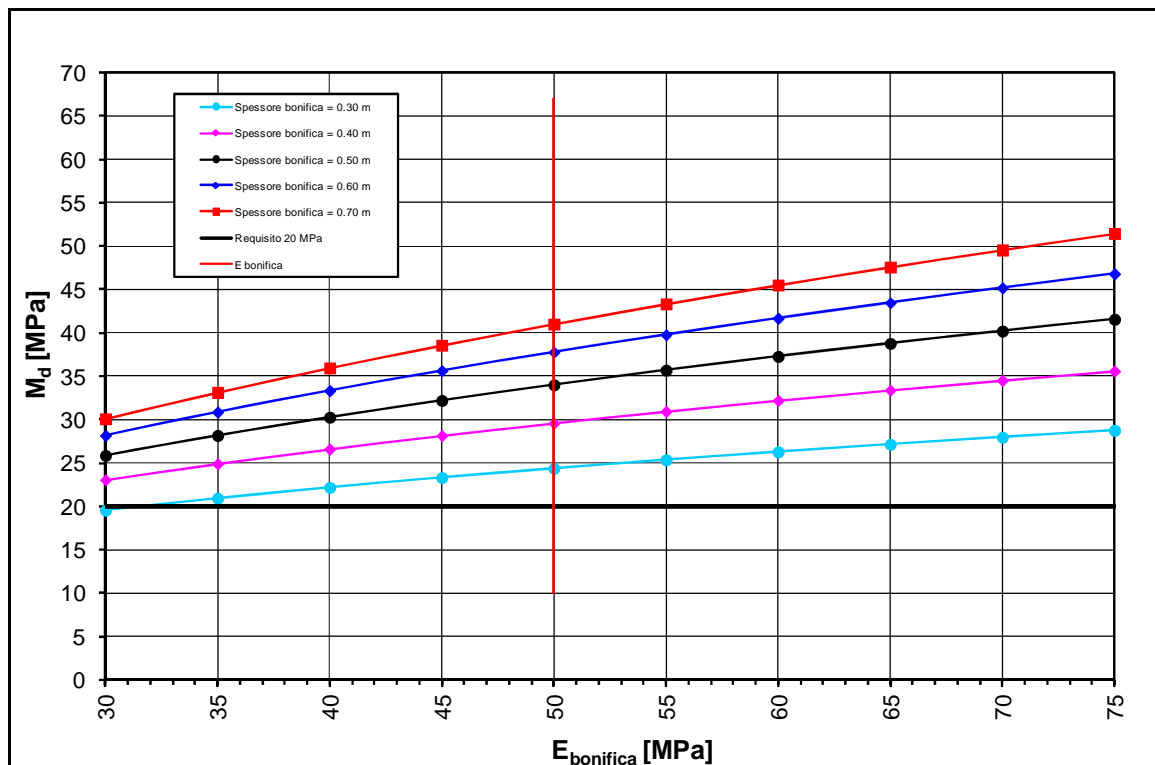


FIGURA 2-47: TRATTO 50 – DETERMINAZIONE SPESSORE DI BONIFICA.

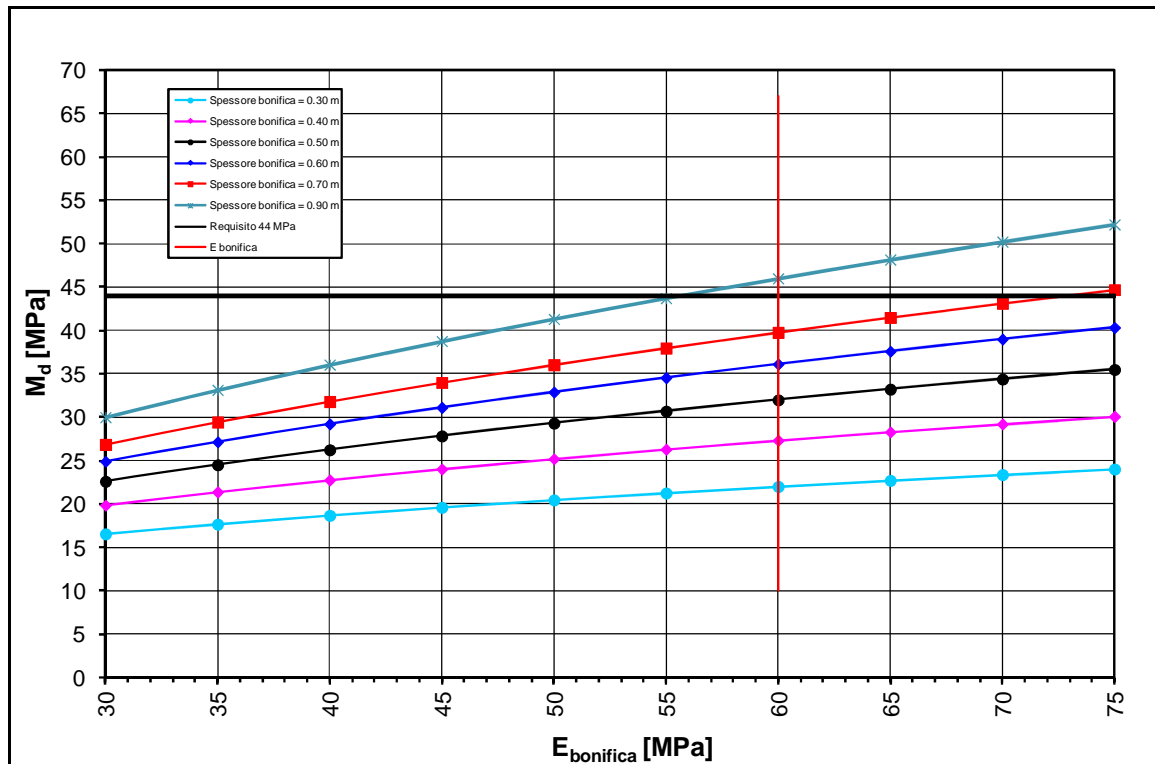


FIGURA 2-48: TRATTO 51 – DETERMINAZIONE SPESSORE DI BONIFICA.

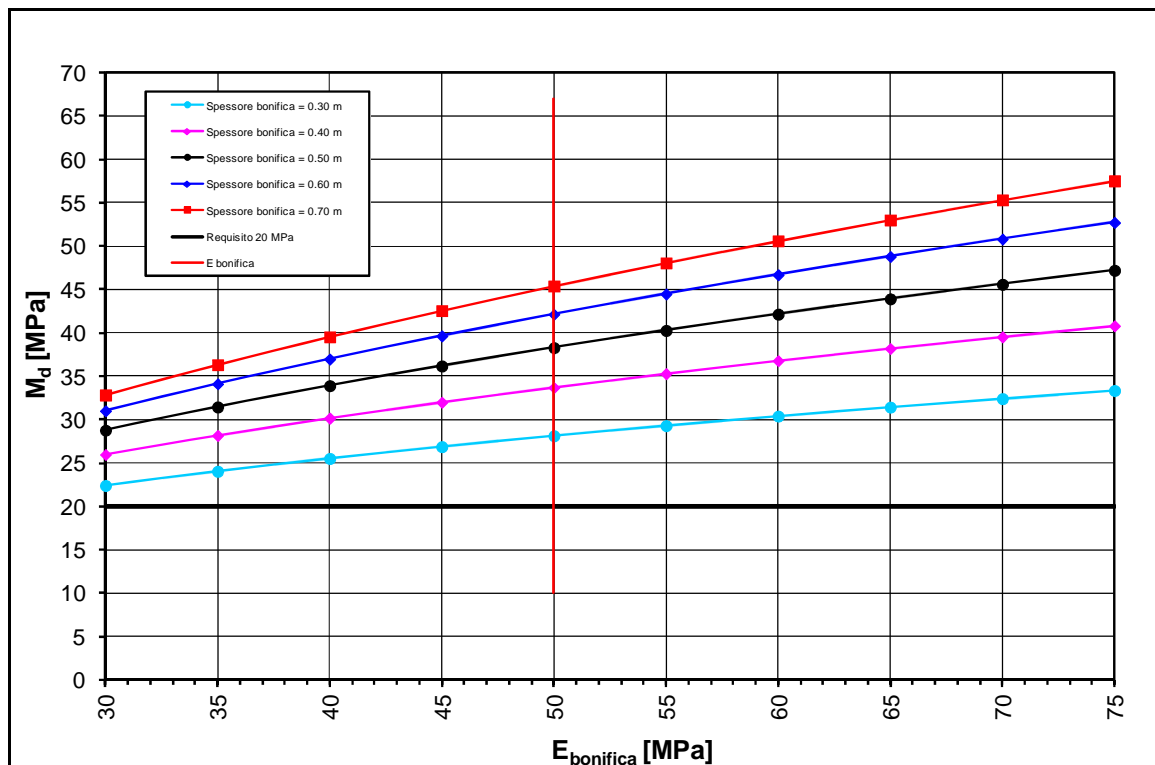


FIGURA 2-49: TRATTO 52 – DETERMINAZIONE SPESSORE DI BONIFICA.

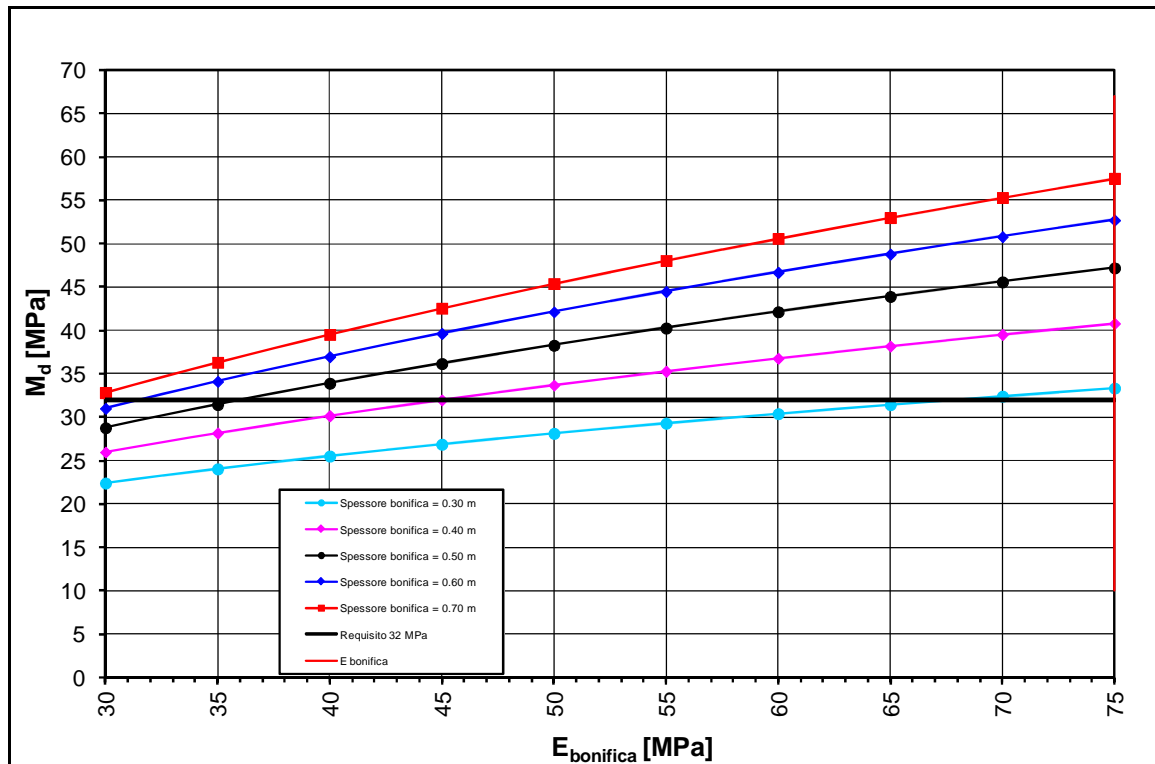


FIGURA 2-50: TRATTO 53 – DETERMINAZIONE SPESSORE DI BONIFICA.

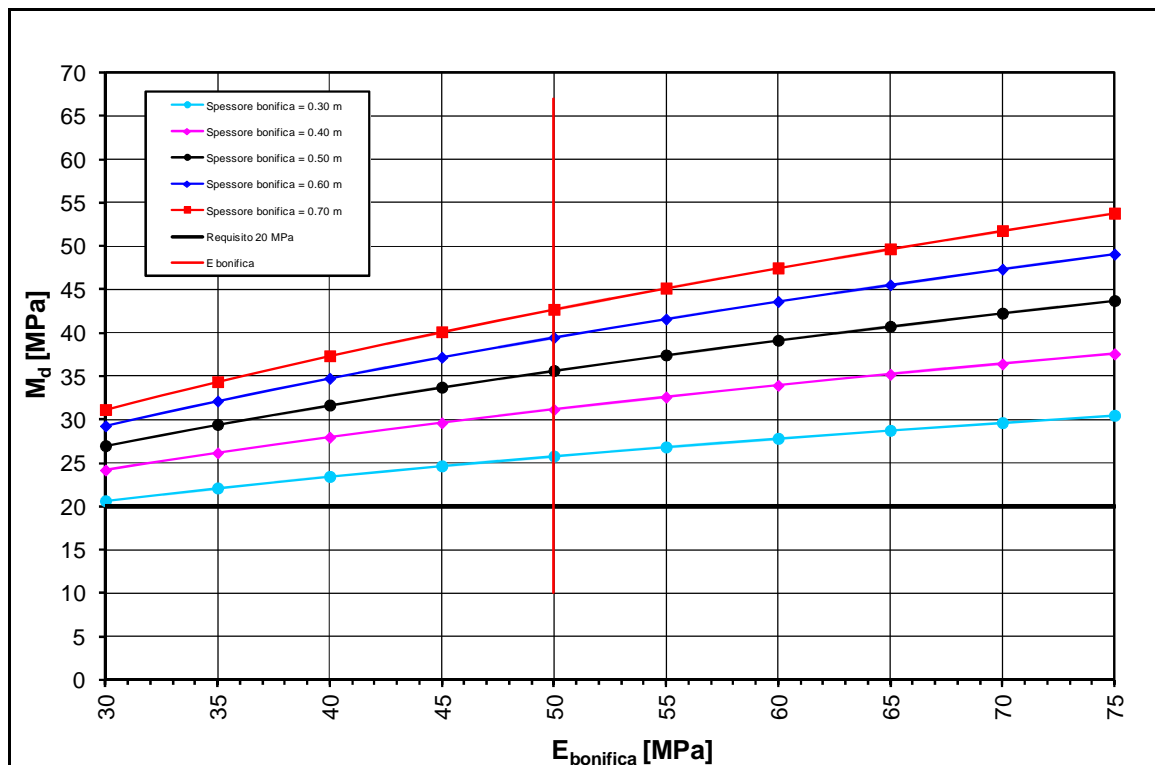


FIGURA 2-51: TRATTO 54 – DETERMINAZIONE SPESSORE DI BONIFICA.

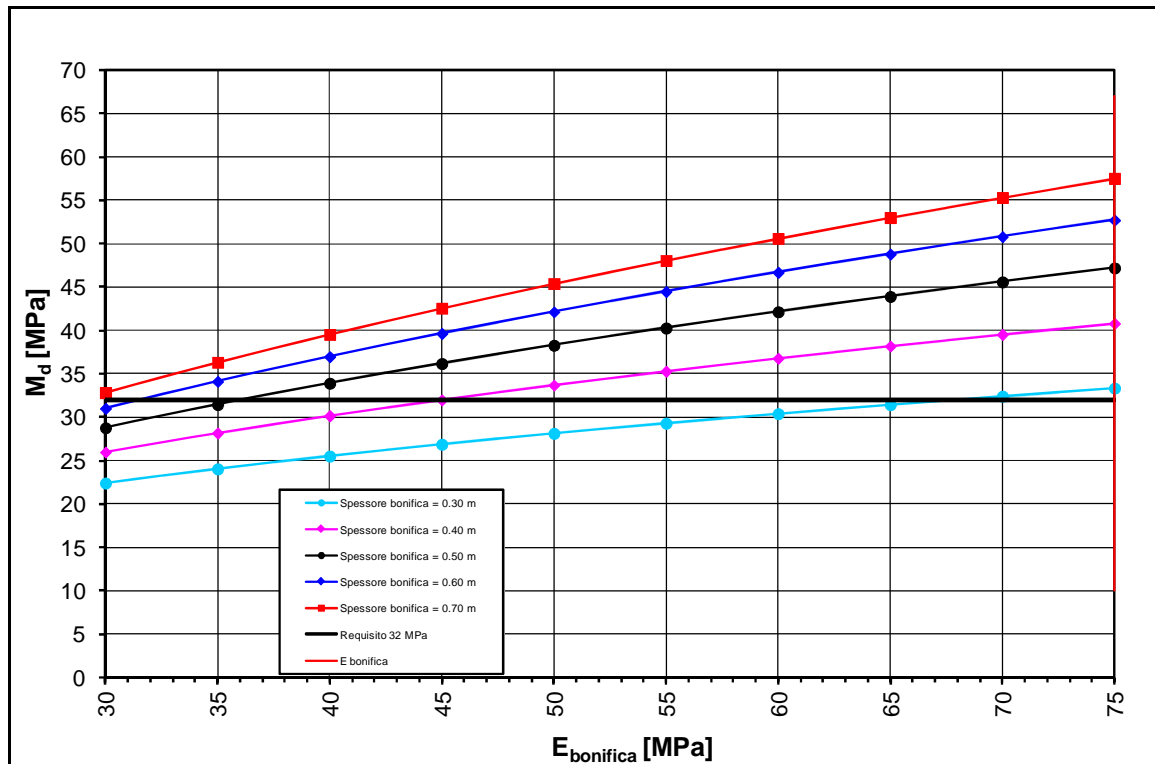


FIGURA 2-52: TRATTO 55 – DETERMINAZIONE SPESSORE DI BONIFICA.

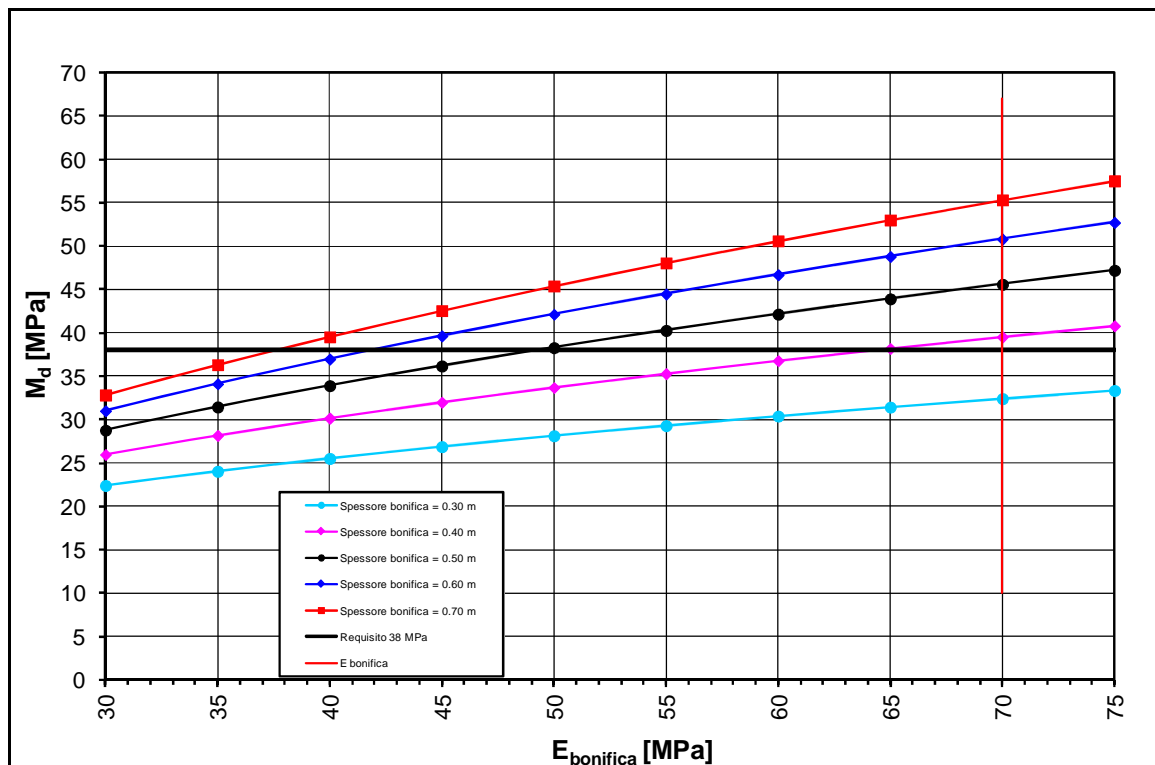


FIGURA 2-53: TRATTO 56 – DETERMINAZIONE SPESSORE DI BONIFICA.

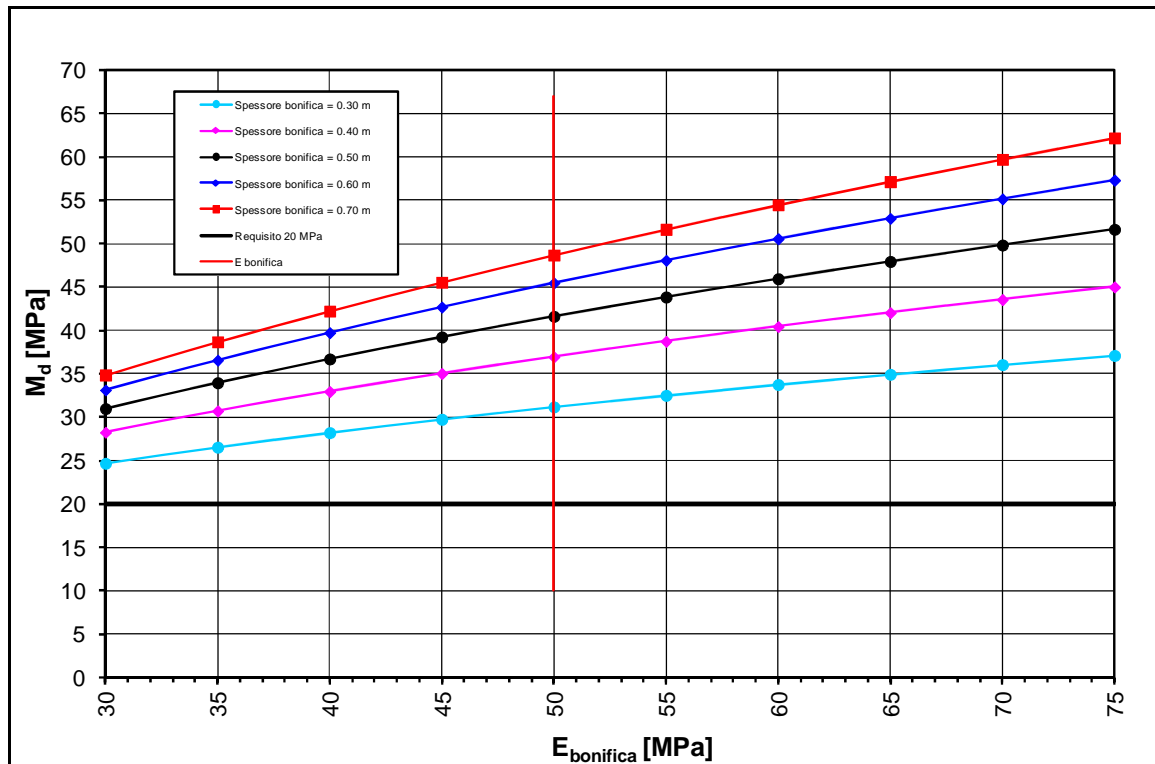


FIGURA 2-54: TRATTO 57 – DETERMINAZIONE SPESSORE DI BONIFICA.

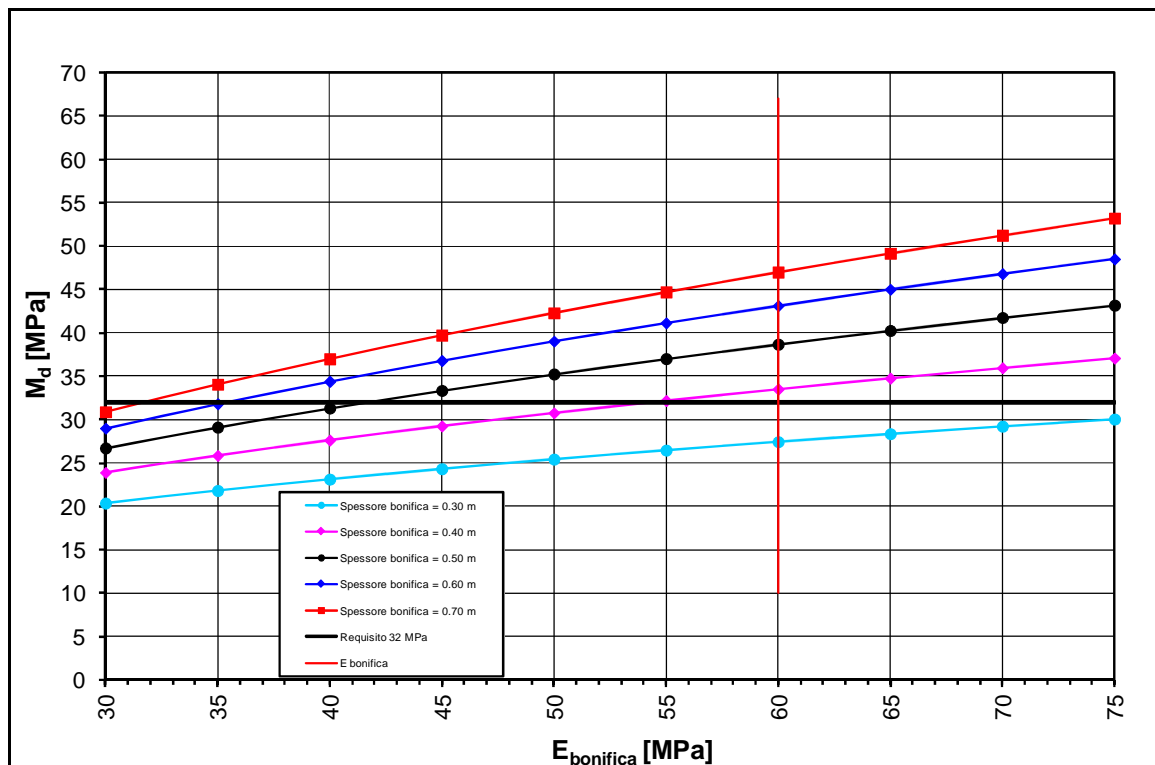


FIGURA 2-55: TRATTO 58 – DETERMINAZIONE SPESSORE DI BONIFICA.

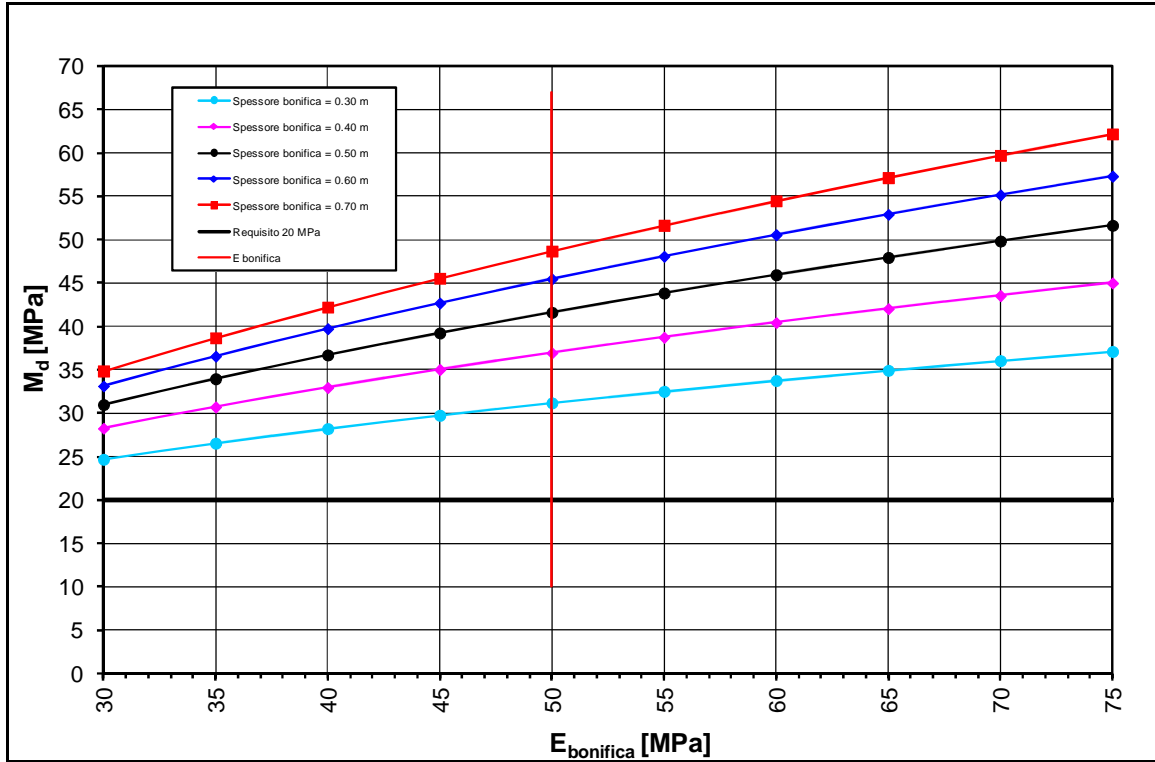


FIGURA 2-56: TRATTO 59 – DETERMINAZIONE SPESSORE DI BONIFICA.

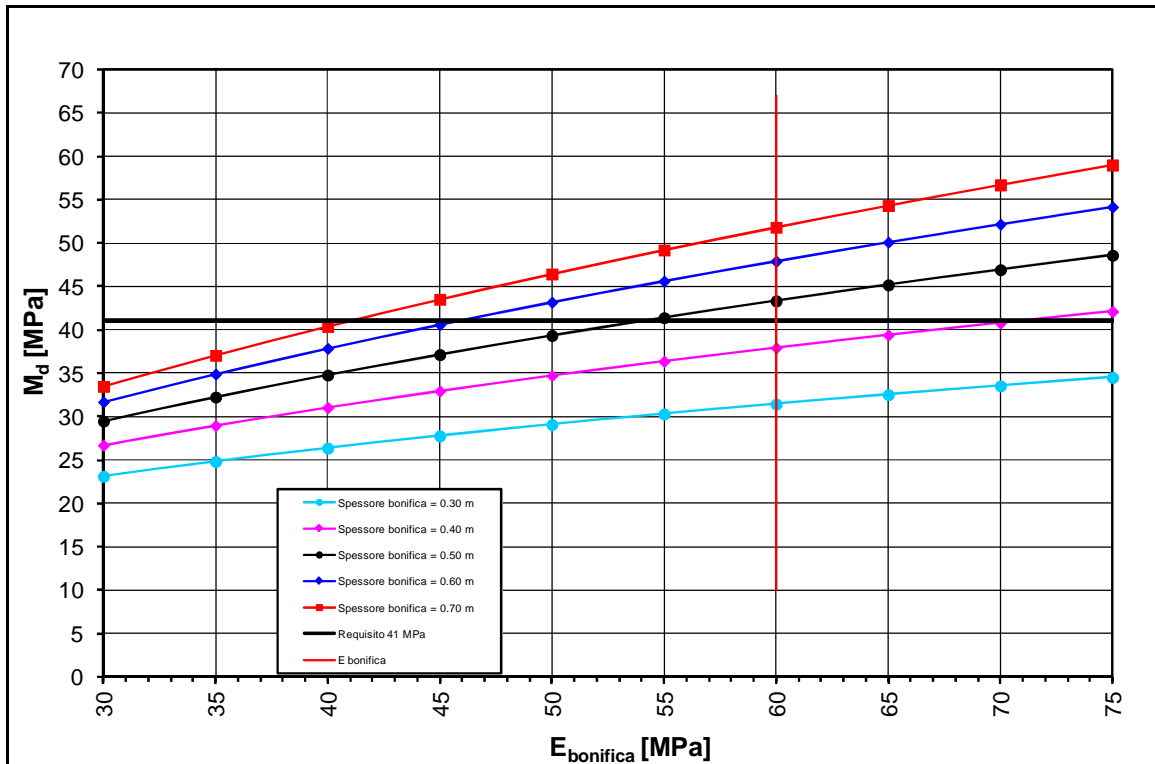


FIGURA 2-57: TRATTO 60 – DETERMINAZIONE SPESSORE DI BONIFICA.

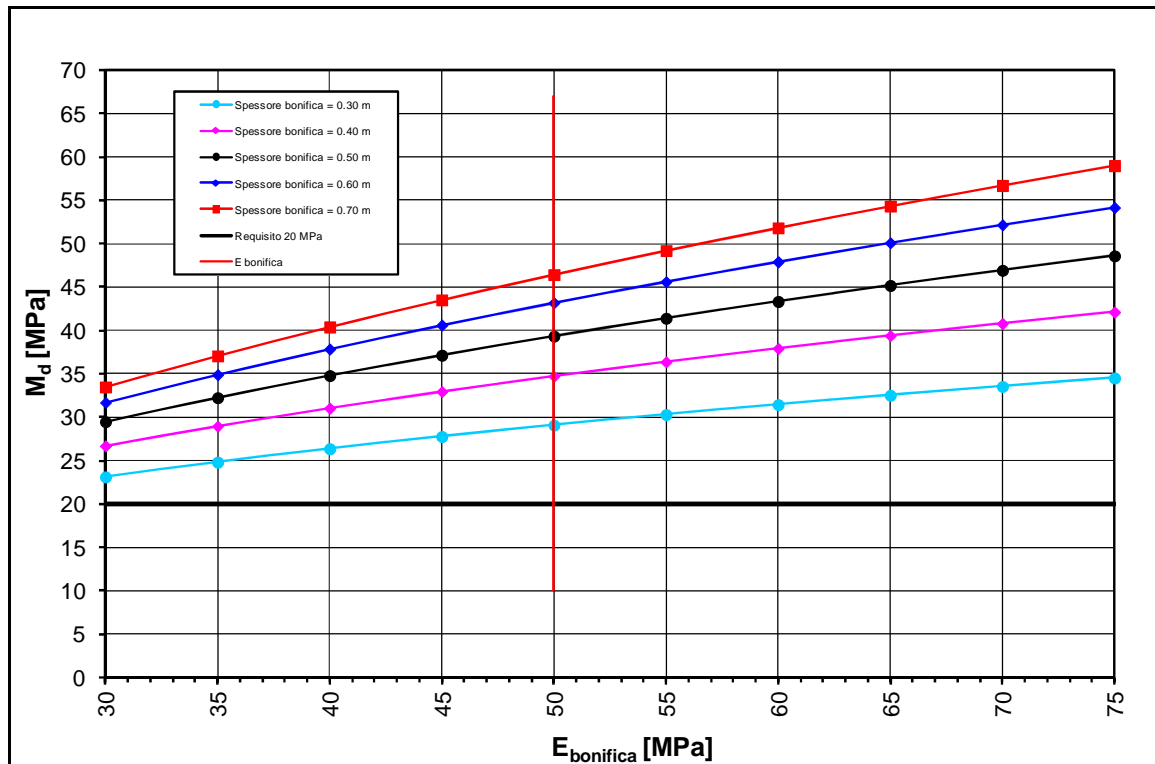


FIGURA 2-58: TRATTO 61 – DETERMINAZIONE SPESSORE DI BONIFICA.

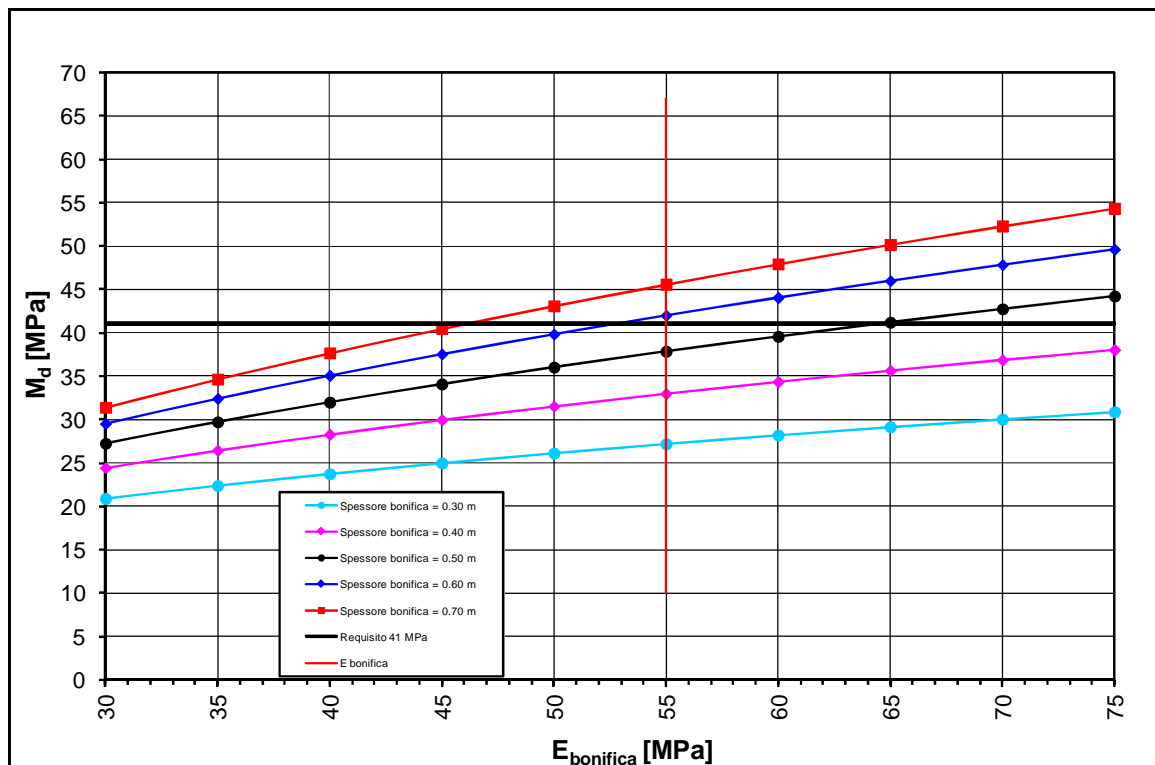


FIGURA 2-59: TRATTO 62 – DETERMINAZIONE SPESSORE DI BONIFICA.

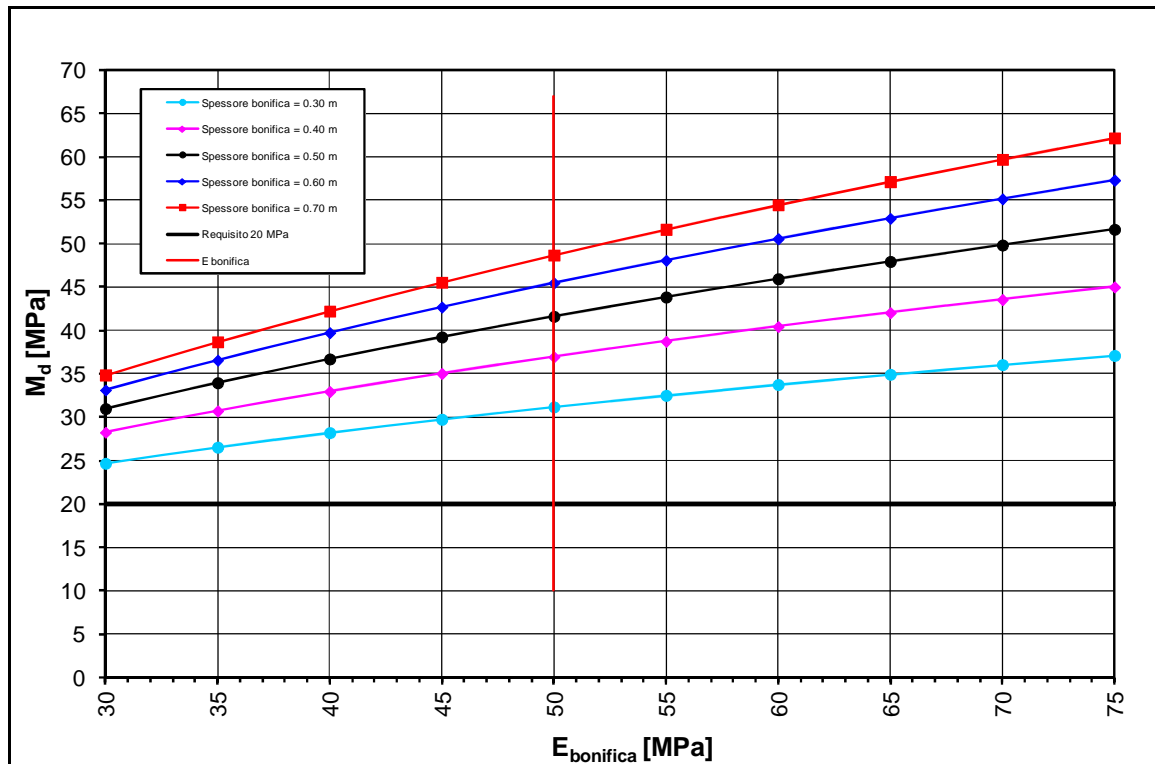


FIGURA 2-60: TRATTO 63 – DETERMINAZIONE SPESSORE DI BONIFICA.

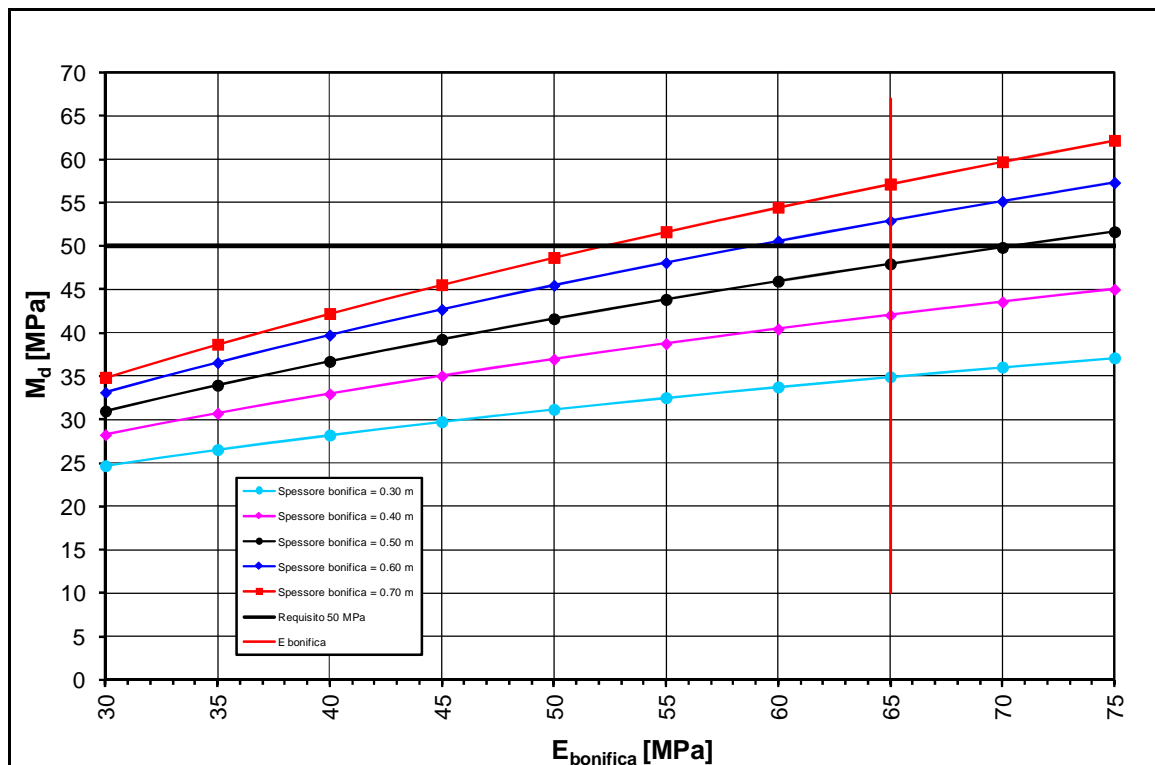


FIGURA 2-61: TRATTO 64 – DETERMINAZIONE SPESSORE DI BONIFICA.