

Plans and Drawings



NASSAU COUNTY ENGINEERING

CONTRACT PLANS

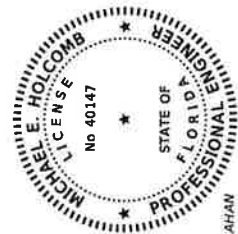
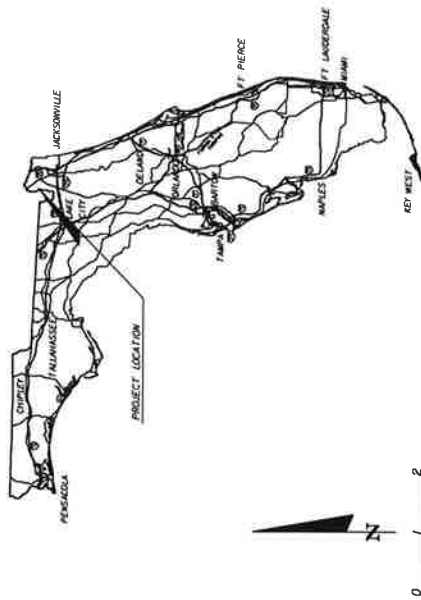
COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	MASTER DRAINAGE MAP
4 - 9	DRAINAGE MAP
10 - 12	TYPICAL SECTIONS
13 - 15	SUMMARY OF QUANTITIES
16 - 18	SUMMARY OF DRAINAGE STRUCTURES
19 - 20	FLOOD DATA
21	PROJECT LAYOUT
22 - 41	BENCHMARKS AND REFERENCE POINTS
42 - 54	GENERAL NOTES
55 - 61	ROADWAY PLAN / PROFILE SHEETS
62 - 65	SIDE STREET PLAN SHEETS
66 - 68	CULVERT CROSSING PLAN SHEETS
69 - 71	STORMWATER POLLUTION PREVENTION PLAN
72 - 74	CROSS SECTIONS
75 - 77	TRAFFIC CONTROL PLANS
78 - 189	
190 - 194	



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

ROADWAY PLANS
ENGINEER OF RECORD:

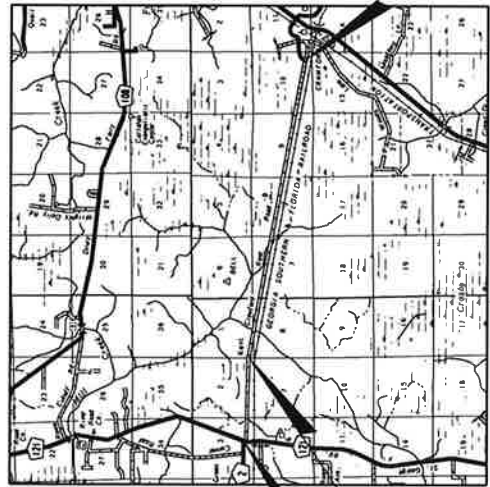
Michael E. Holcomb, P.E.
P.E. NO.: 40147
Elton Alan
3653 Regent Blvd. Unit 606
JACKSONVILLE, FL 32224
CELL: 904-446-9111
FAX: 904-446-9112
VENDOR NO: 26-437771
CERTIFICATE OF AUTHORIZATION NO.: 30320

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

FINAL SUBMITTAL
JANUARY 2020

NASSAU COUNTY PROJECT MANAGER:
ROBERT T. COMPANION, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		1



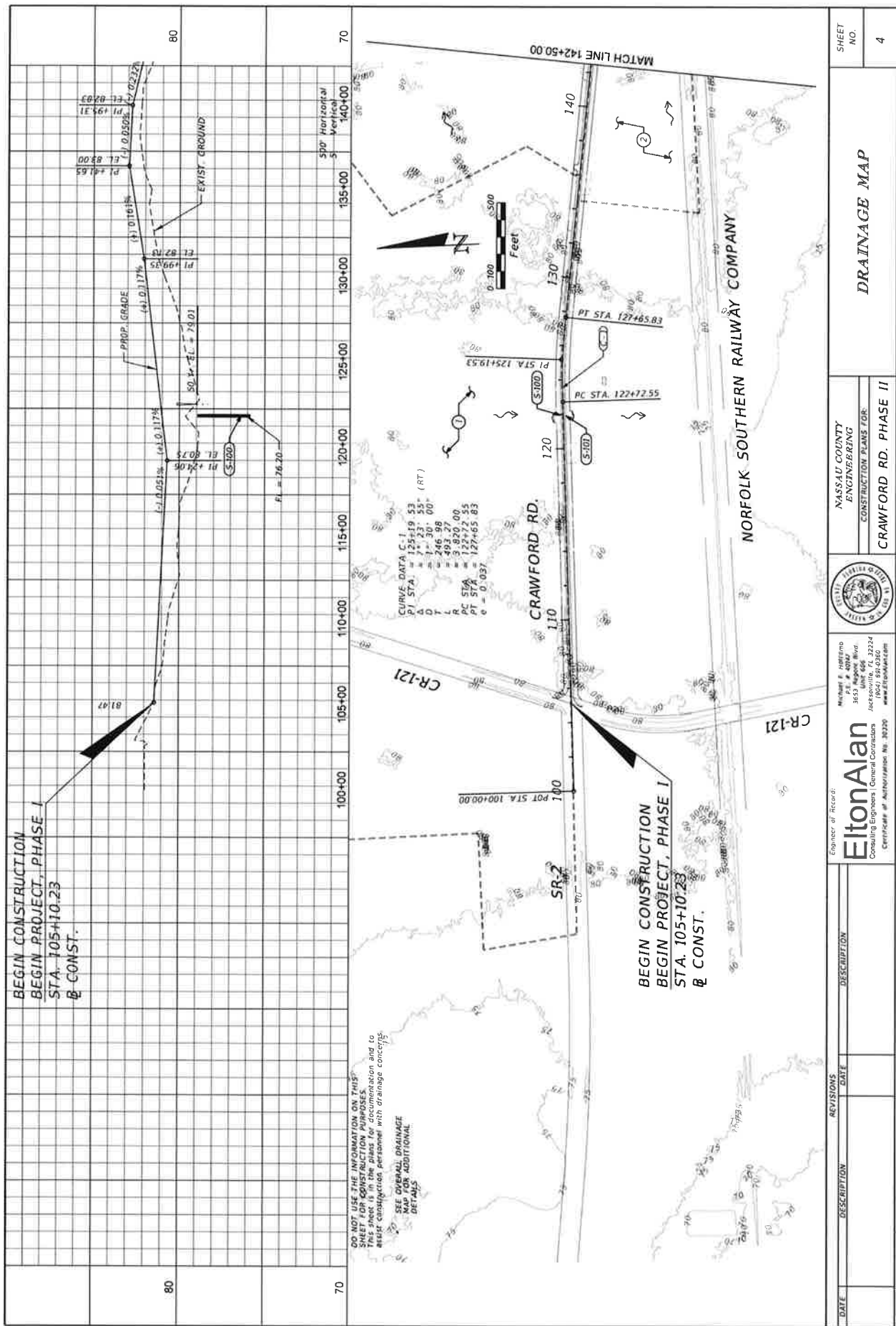
BOARD OF COUNTY COMMISSIONERS

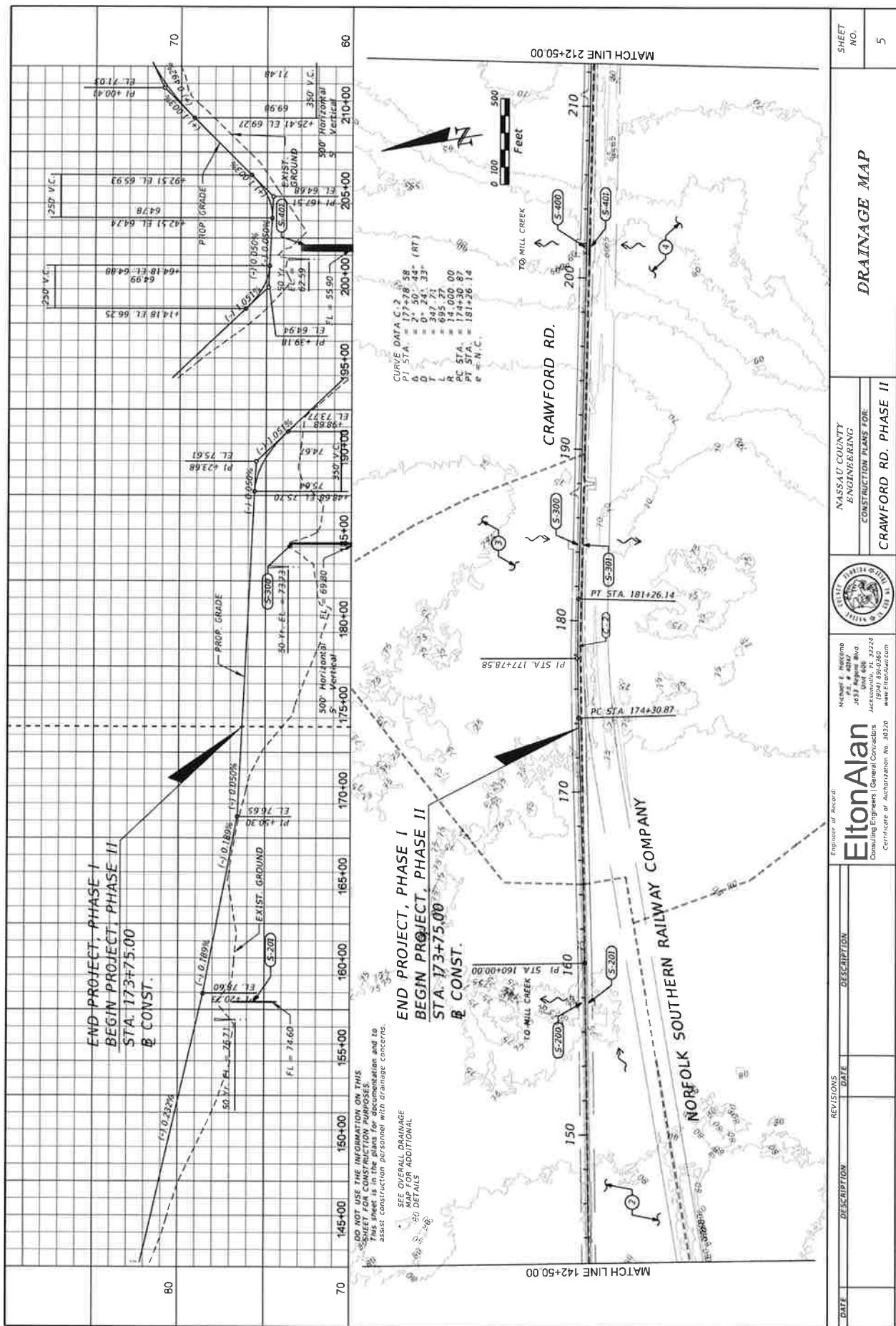
DANIEL B. LEEPER	DISTRICT 1	CHAIRMAN
AARON C. BELL	DISTRICT 2	
PAT EDWARDS	DISTRICT 3	VICE CHAIRMAN
THOMAS R. FORD	DISTRICT 4	
JUSTIN M. TAYLOR	DISTRICT 5	

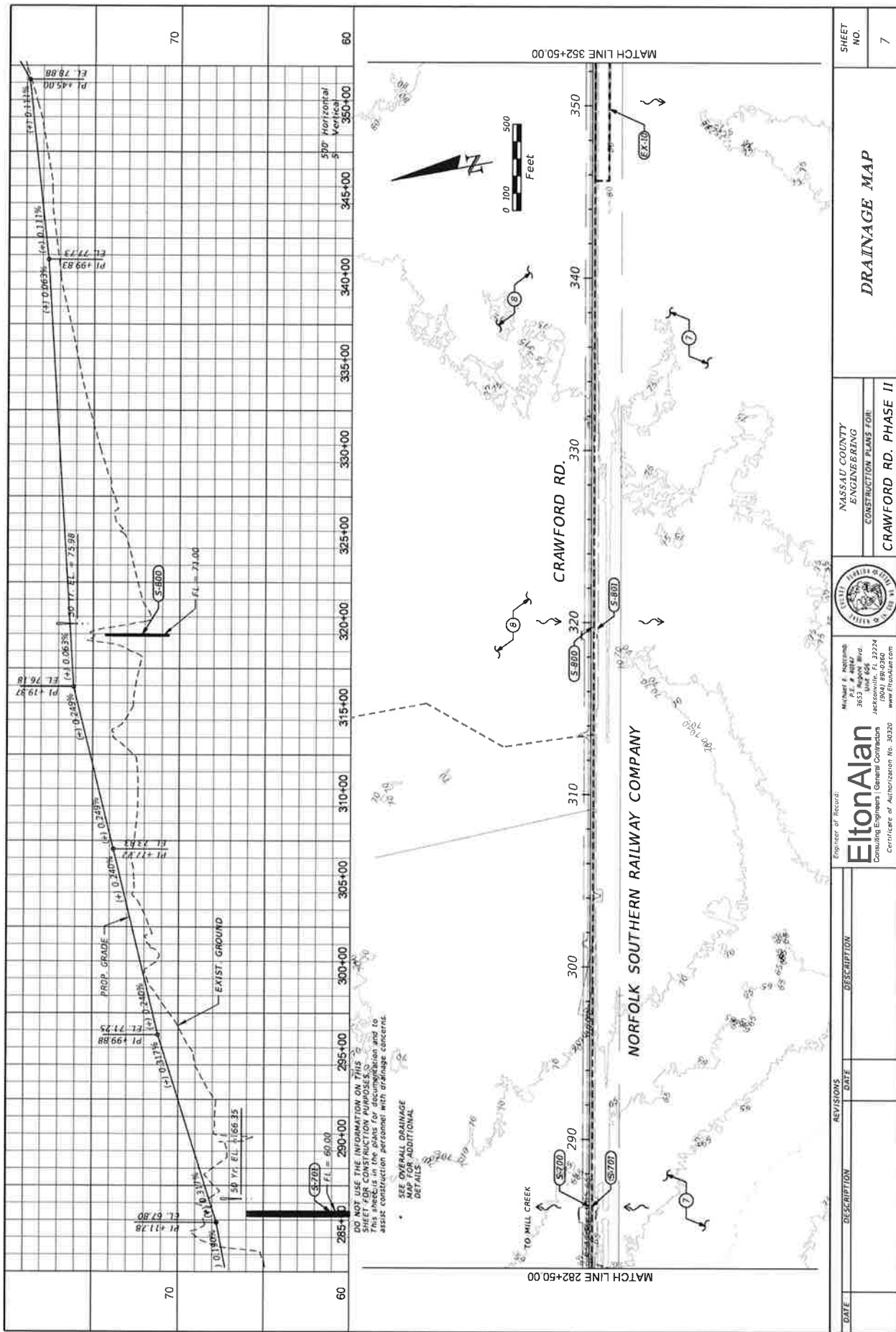
GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY 2019-20 Design Standards eBook (DSesb)
and applicable Design Standards Revisions (DSRs) at the following website:
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shtm>

APPLICABLE DSRs: DSR400-1

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, July 2019 Standard Specifications
for Road and Bridge Construction at the following website:
<http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks>





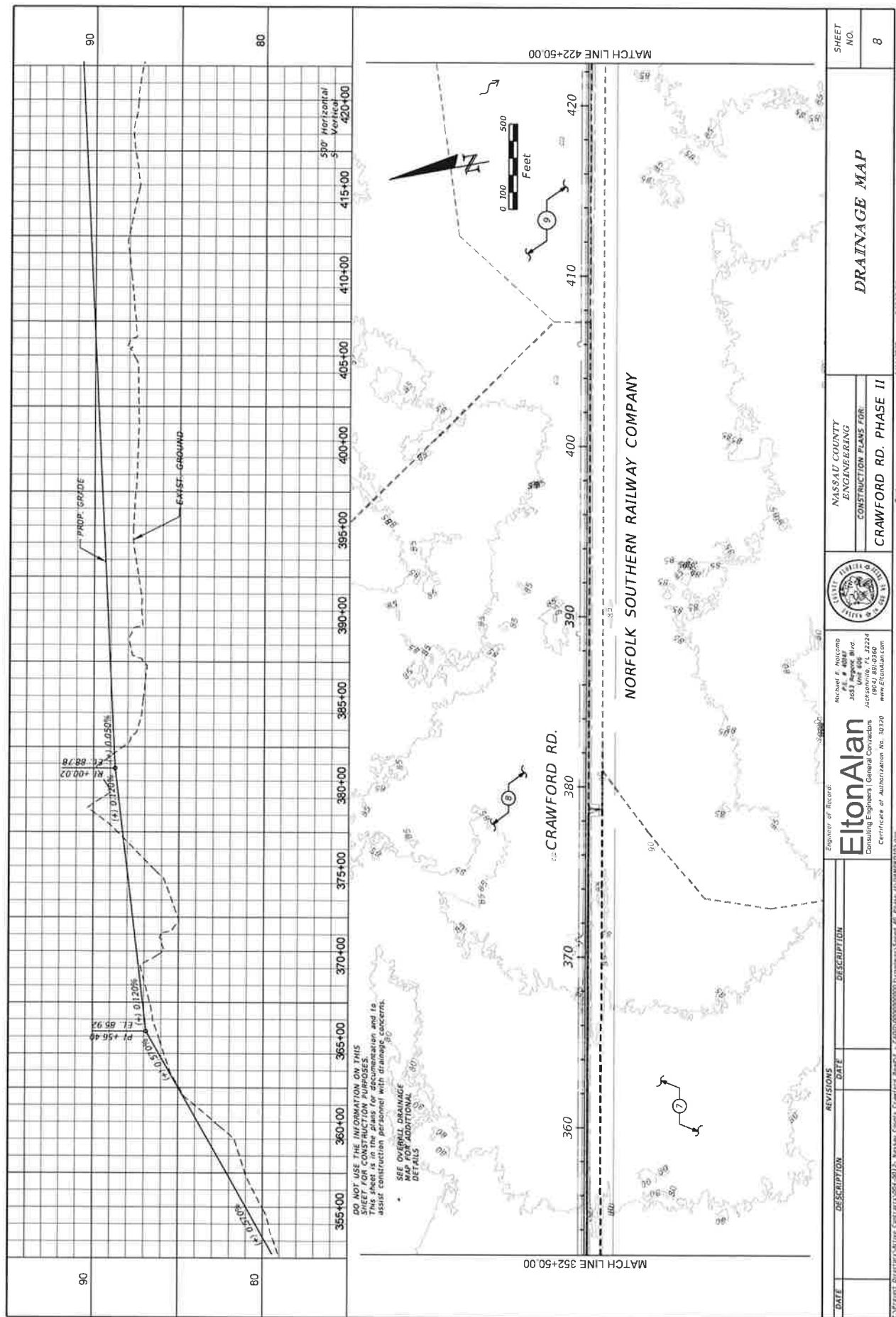


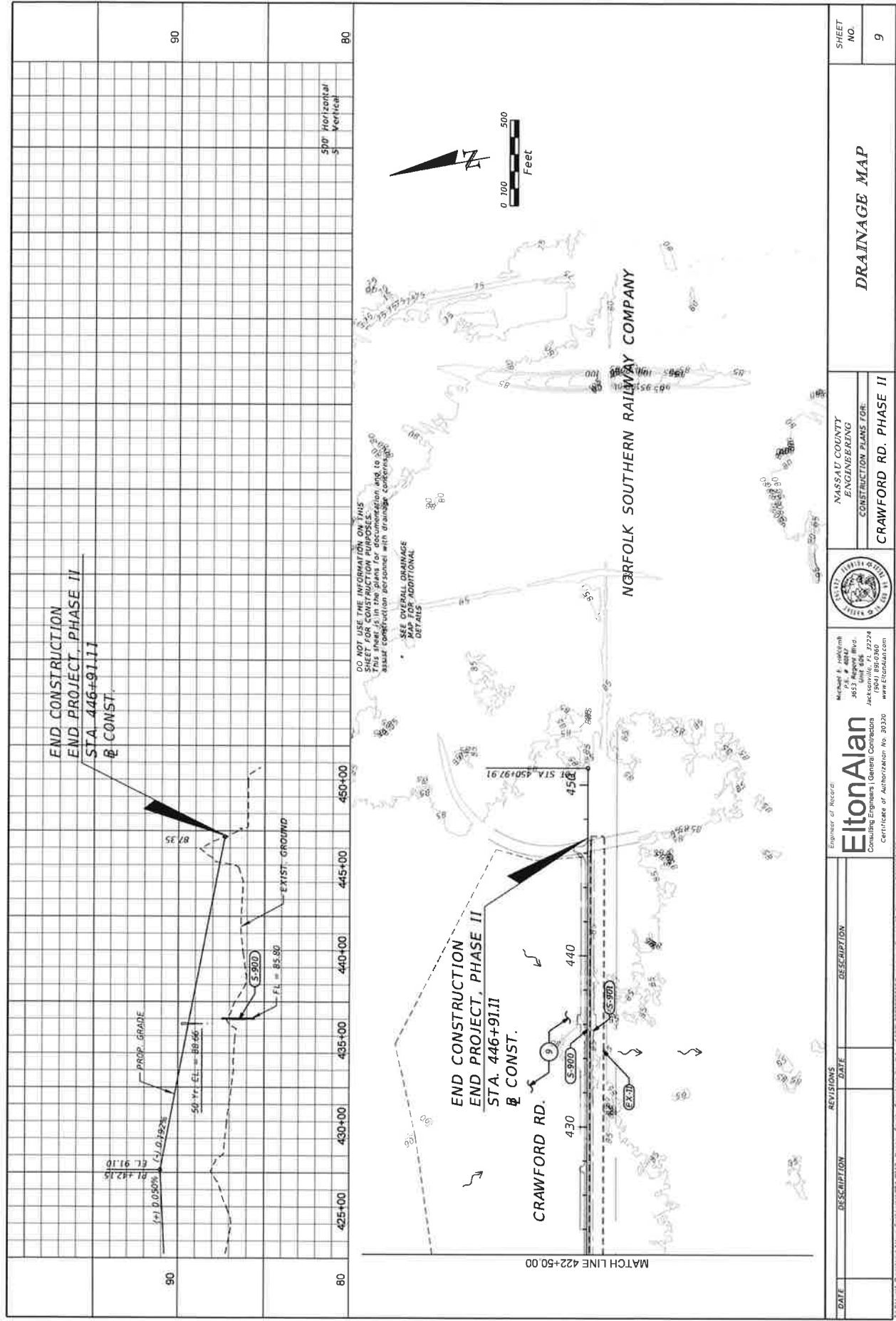
REVISIONS		SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION
		7	

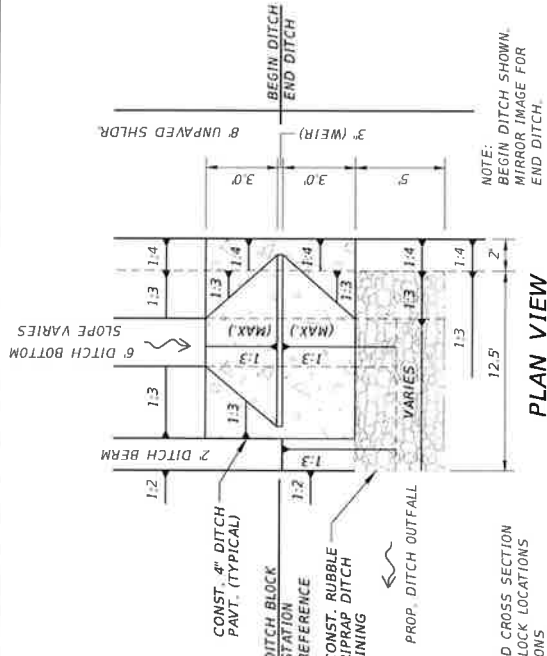
NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR		DRAINAGE MAP	
CRAWFORD RD. PHASE II		7	

EltonAlan		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR	
Consulting Engineers (General Contractors)		CRAWFORD RD. PHASE II	
Certificate of Authorization No. 30320		7/17/2020 1:11:31 PM	

Michael J. Holcomb		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR	
3653 N. Highway Blvd.		CRAWFORD RD. PHASE II	
Jacksonville, FL 32224		7/17/2020 1:11:31 PM	
(904) 890-0360			
www.EltonAlan.com			

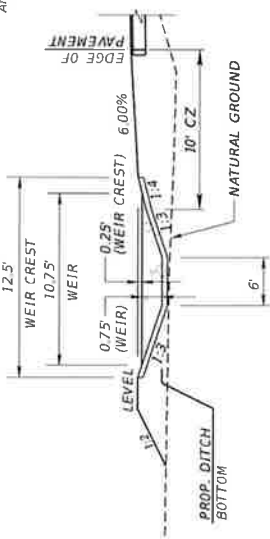






NOTE:
SEE PLAN AND CROSS SECTION
FOR DITCH BLOCK LOCATIONS
AND ELEVATIONS

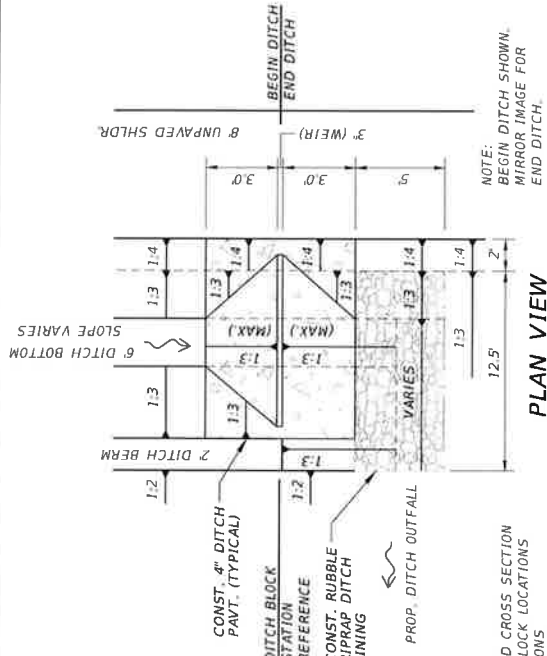
PLAN VIEW
N.T.S.



NOTE:
CONSTRUCT WEIR HOLES PER
FOOT INDEX 281

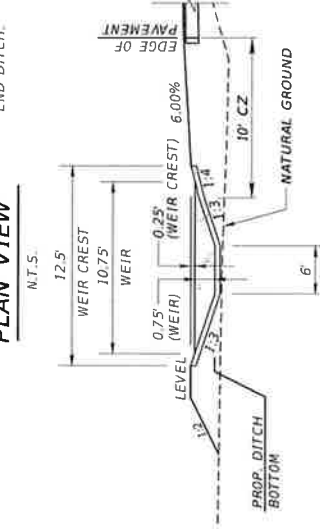
SECTION VIEW
N.T.S.

TYPE I DITCH BOTTOM
DITCH BLOCK DETAIL



NOTE:
BEGIN DITCH SHOWN
MIRROR IMAGE FOR
END DITCH.

PLAN VIEW
N.T.S.



NOTE:
CONSTRUCT WEIR HOLES PER
FOOT INDEX 281

SECTION VIEW
N.T.S.

TYPE II DITCH BOTTOM
DITCH BLOCK DETAIL

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Engineer of Record:
EltonAlan
Michael E. Nicosia
3653 Regent Blvd.
Suite 400
Jacksonville, FL 32224
(904) 891-0360
www.EltonAlan.com
Certificate of Authorization No. 30320

FLORIDA
REGISTERED PROFESSIONAL ENGINEER
No. 10000
Exp. 12/31/2024

NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II

TYPICAL SECTION DETAILS

SHEET NO. 13

3/17/2022 8:29:08 AM

SUMMARY OF LUMP SUM ITEMS						
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS	
		P	F			
101 1	MOBILIZATION		1			
102 1	MAINTENANCE OF TRAFFIC		1			
110 1 1	CLEARING AND GRUBBING		1			

PAY ITEM NOTES

- 102 1 COST OF TEMPORARY STRIPING, TEMPORARY SIGNING, AND MOT CONTROL DEVICES TO BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC.
- 110 1 1 COST OF THE RELOCATION OF THE EXISTING METAL SWING GATES TO BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

DATE: _____ DESCRIPTION: _____ REVISIONS: _____ DATE: _____		ENGINEER OF RECORD EltonAlan Consulting Engineers (General Contractors) Certificate of Authorization No. 39320 www.EltonAlan.com Michael L. Haggard 7553 Regent Blvd. Jacksonville, FL 32224 (904) 891-0360			NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II	SUMMARY OF QUANTITIES	SHEET NO. 50-1
--	--	--	--	---	--	------------------------------	--------------------------

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES									
LOCATION		SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.				P	F	P	F		
173+74.99 to 173+99.99		LT		25.0					
173+74.99 to 173+99.99		RT		25.0					
173+99.99 to 174+99.99		LT		100.2					
173+99.99 to 175+00.00		RT		99.8					
174+99.99 to 176+19.65		RT		119.3					
175+00.00 to 175+99.99		LT		100.3					
175+28.17 to 175+28.24		LT		12.0					
175+54.79 to 175+54.84		RT		12.0					
175+99.97 to 176+99.96		LT		100.4					
176+19.65 to 176+33.29		RT		17.6					
176+33.29 to 177+00.13		RT		66.7					
176+99.98 to 177+99.98		LT		100.3					
176+99.99 to 178+00.00		RT		99.8					
177+99.99 to 179+00.00		RT		99.8					
178+00.00 to 178+99.99		LT		100.3					
178+28.46 to 178+28.65		LT		12.0					
178+99.97 to 179+99.98		RT		99.8					
178+99.99 to 180+17.06		LT		117.5					
179+99.97 to 180+99.98		RT		99.8					
180+17.06 to 180+27.67		LT		16.1					
180+27.68 to 182+00.01		LT		172.6					
181+00.01 to 182+00.01		RT		99.9					
181+99.98 to 182+99.98		RT		100.0					
182+00.00 to 183+00.00		LT		100.0					
182+99.97 to 184+08.29		LT		108.4					
183+00.04 to 184+00.04		RT		100.1					
183+99.85 to 184+24.37		RT		24.6					
184+08.29 to 184+16.48		LT		8.2					
184+16.48 to 184+25.07		LT		12.2					
184+64.64 to 184+76.02		LT		16.1					
184+64.78		LT		20.0					
184+68.11 to 185+00.03		RT		32.0					
184+76.02 to 185+00.02		LT		24.0					
185+00.02 to 186+00.02		LT		100.0					
185+00.03 to 186+00.03		RT		100.1					
186+00.02 to 187+00.02		RT		100.0					
186+00.02 to 187+18.67		LT		118.7					
187+00.01 to 187+55.25		RT		55.2					
187+18.67 to 187+27.50		LT		15.0					
187+55.25 to 187+82.22		RT		28.7					
187+61.74 to 188+99.95		LT		138.2					
188+20.67 to 188+29.95		RT		15.0					
188+29.81 to 189+00.01		RT		70.2					
189+00.01 to 190+00.01		LT		100.0					
189+00.01 to 190+00.01		RT		100.0					
189+67.10		LT		12.0					
PLAN TOTAL				3195					
FINAL TOTAL				54754			671		

REVISIONS DATE DESCRIPTION		ENGINEER OF RECORD Elton Alan Consulting Engineers (Civil and Structural) Certificate of Authorization No. 3920		REGISTERED PROFESSIONAL ENGINEER P.E. #4444 3853 Regatta Blvd Jacksonville, FL 32224 (904) 891-6380 www.EltonAlan.com		FLORIDA PROFESSIONAL ENGINEERS 1905		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II		SUMMARY OF QUANTITIES SHEET NO. 50-2	
-------------------------------	--	---	--	--	--	---	--	---	--	--	--

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES											
LOCATION		SIDE	AREA ID	SEDIMENT BARRIER			FLOATING TURBIDITY BARRIER			DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.				P	F	LF	P	F	LF		
190+00.01 to 191+00.01		RT		100.0							
190+00.02 to 191+00.02		LT		100.0							
190+99.99 to 191+99.99		LT		100.0							
191+00.04 to 192+00.04		RT		100.0							
192+00.00 to 193+00.00		LT		100.0							
192+00.00 to 193+00.00		RT		100.0							
192+67.10		LT		12.0							
193+00.00 to 194+00.00		RT		100.0							
193+00.00 to 194+00.00		LT		100.0							
193+99.99 to 194+99.99		LT		100.0							
194+00.00 to 195+00.00		RT		100.0							
194+99.99 to 195+99.99		RT		100.0							
195+00.01 to 196+00.01		LT		100.0							
195+67.10		LT		12.0							
195+99.97 to 196+99.97		RT		100.0							
196+00.01 to 197+00.01		LT		100.0							
196+99.99 to 197+99.99		RT		100.0							
197+00.00 to 198+00.00		LT		100.0							
197+99.98 to 198+99.98		LT		100.0							
197+99.99 to 198+99.99		RT		100.0							
198+67.10		LT		12.0							
198+99.95 to 199+99.95		LT		100.0							
198+99.98 to 199+99.98		RT		100.0							
199+99.97 to 200+99.97		LT		100.0							
200+00.10 to 200+99.95		RT		99.9							
200+29.10		LT		12.0							
200+99.95 to 201+33.28		RT		33.4							
200+99.97 to 201+13.44		LT		14.6							
202+01.81 to 202+50.15		RT		49.1							
202+15.50		LT		16.0							
202+15.50 to 202+35.55		LT		20.4							
202+35.55 to 203+00.20		LT		64.7							
202+49.98 to 203+00.06		RT		50.4							
202+99.89 to 203+71.71		LT		71.8							
203+00.06 to 204+00.06		RT		100.2							
203+71.71 to 203+80.64		LT		12.7							
203+80.64 to 204+00.02		LT		19.4							
204+00.02 to 205+00.02		LT		100.0							
204+00.03 to 205+00.03		RT		100.0							
204+67.10		LT		12.0							
204+99.99 to 205+99.99		RT		100.0							
205+00.00 to 206+00.00		LT		100.0							
205+99.99 to 206+99.99		LT		100.0							
205+99.99 to 206+99.99		RT		100.0							
207+00.00 to 208+00.00		RT		100.0							
207+00.02 to 208+00.02		LT		100.0							
207+67.10		LT		12.0							
SUB-TOTAL:										3523.0	

DATE: _____ DESCRIPTION: _____ REVISIONS: _____ DATE: _____		ENGINEER OF RECORD EltonAlan Civil Engineer State of Florida License No. 12345 www.EltonAlan.com		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II		SHEET NO. 50-3
SUMMARY OF QUANTITIES						
5/12/2020 6:21:28 AM						

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION		SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS	
				0104 10 3		0104 11				
STA. TO STA.				P	F	P	F			
208+00.00 to 209+00.00		RT		100.0						
208+00.01 to 209+00.01		LT		100.0						
208+99.98 to 210+55.79		LT		155.9						
208+99.99 to 209+99.99		RT		100.0						
209+92.45		LT		12.0						
209+99.99 to 210+99.99		RT		100.0						
210+83.07 to 211+99.98		LT		116.9						
211+00.01 to 212+00.01		RT		100.0						
211+35.89		LT		12.0						
212+00.00 to 213+00.00		LT		100.0						
212+00.00 to 213+00.00		RT		100.0						
213+00.00 to 214+00.00		RT		100.0						
213+00.00 to 214+00.00		LT		100.0						
213+67.10		LT		12.0						
214+00.00 to 215+00.00		LT		100.0						
214+00.00 to 215+00.00		RT		100.0						
215+00.00 to 216+00.00		LT		100.0						
215+00.00 to 216+00.00		RT		100.0						
215+99.93 to 216+99.93		LT		100.2						
216+00.00 to 217+00.00		RT		100.0						
216+47.95		LT		12.0						
216+99.99 to 217+20.71		RT		20.7						
217+34.95 to 218+00.07		LT		65.3						
217+67.69 to 217+99.99		RT		32.3						
217+92.79		LT		12.0						
217+99.99 to 218+99.99		RT		100.0						
218+00.00 to 219+00.00		LT		100.0						
219+00.00 to 220+00.00		LT		100.0						
219+00.00 to 220+00.00		RT		100.0						
219+67.10		LT		12.0						
220+00.00 to 221+00.00		LT		100.0						
220+00.00 to 221+00.00		RT		100.0						
221+00.00 to 222+00.00		RT		100.0						
221+00.00 to 222+55.44		LT		155.4						
222+00.00 to 223+00.00		RT		100.0						
222+55.44 to 222+69.60		LT		21.7						
222+69.60 to 224+00.00		LT		130.4						
223+00.00 to 224+00.00		RT		100.0						
224+00.00 to 225+00.00		RT		100.0						
224+00.01 to 225+23.33		LT		123.3						
225+00.01 to 226+00.01		RT		100.0						
225+23.33 to 225+41.26		LT		25.6						
225+41.26 to 227+00.00		LT		158.7						
226+00.01 to 227+00.01		RT		100.0						
226+38.82		LT		12.0						
227+00.01 to 228+00.01		LT		100.0						
227+00.01 to 228+00.01		RT		100.0						
SUR-TOTAL				3990.6						

[illegible]

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER			DESIGN NOTES	CONSTRUCT ION REMARKS	
			P	F	P	F				
							LF			3
STA. TO STA.										
228+00.00 to 229+00.00	RT		100.0							
228+00.01 to 229+00.01	LT		100.0							
228+67.10	LT		12.0							
228+99.99 to 229+99.99	LT		100.0							
229+00.00 to 230+00.00	RT		100.0							
230+00.00 to 231+00.00	LT		100.0							
230+00.00 to 231+00.00	RT		100.0							
231+00.00 to 232+00.00	LT		100.0							
231+00.00 to 232+00.00	RT		100.0							
231+67.10	LT		12.0							
232+00.00 to 233+00.00	RT		100.0							
232+00.00 to 233+00.00	LT		100.0							
232+99.99 to 233+99.99	RT		100.0							
233+00.00 to 234+00.00	LT		100.0							
234+00.00 to 235+00.00	LT		100.0							
234+00.00 to 235+00.00	RT		100.0							
234+67.10	LT		12.0							
235+00.00 to 236+00.00	RT		100.0							
235+00.00 to 236+00.00	LT		108.0							
236+00.00 to 237+00.00	RT		100.0							
236+41.56 to 237+00.01	LT		58.5							
237+00.00 to 238+00.00	LT		100.0							
237+00.00 to 238+00.00	RT		100.0							
237+67.10	LT		12.0							
238+00.00 to 239+00.00	LT		100.0							
238+00.01 to 239+00.01	RT		100.0							
239+00.00 to 240+00.00	LT		100.0							
239+00.01 to 240+00.01	RT		100.0							
240+00.00 to 241+00.00	LT		100.0							
240+00.01 to 241+00.01	RT		100.0							
240+67.10	LT		12.0							
241+00.00 to 242+00.00	RT		100.0							
241+00.01 to 242+00.01	LT		100.0							
242+00.00 to 243+00.00	RT		100.0							
242+00.01 to 243+00.01	LT		100.0							
243+00.00 to 244+00.00	RT		100.0							
243+00.02 to 244+00.02	LT		100.0							
243+67.10	LT		12.0							
243+99.99 to 244+99.99	LT		100.0							
244+00.00 to 245+00.00	RT		100.0							
244+99.99 to 245+99.99	LT		100.0							
245+00.00 to 246+00.00	RT		100.0							
245+99.97 to 246+99.97	LT		100.0							
246+00.00 to 247+00.00	RT		100.0							
246+67.10	LT		12.0							
247+00.00 to 248+00.00	RT		100.0							
247+00.01 to 248+00.01	LT		100.0							
SUB-TOTAL			4050.6							

EltonAlan Engineer of Record 3655 N. Orange Blvd. Jacksonville, FL 32224 904.447.1906 www.eltonalan.com			NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II	SUMMARY OF QUANTITIES	SHEET NO. 50-5
5/12/2020 8:25:17 AM					

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION		SIDE	AREA ID	SEDIMENT BARRIER	FLOATING TURBIDITY BARRIER			DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	F		
STA. TO STA.				0104 10 3	0104 10 3	0104 11			
247+99.98 to 248+99.98		LT		100.0					
248+00.00 to 249+00.00		RT		100.0					
249+00.00 to 250+00.00		RT		100.0					
249+00.00 to 250+12.85		LT		112.9					
249+67.10		LT		12.0					
250+00.01 to 251+00.01		RT		100.0					
250+12.85 to 250+28.79		LT		21.6					
250+28.79 to 251+00.17		LT		71.4					
251+00.01 to 252+00.01		LT		100.0					
251+00.02 to 252+00.02		RT		100.0					
252+00.00 to 253+00.00		LT		100.0					
252+00.02 to 253+00.02		RT		100.0					
252+99.80 to 253+99.80		RT		102.1					
253+00.02 to 253+28.10		LT		28.1					
253+28.10 to 253+34.69		LT		14.7					
253+77.93 to 253+88.90		LT		18.8					
253+88.90 to 254+26.43		LT		37.5					
253+99.89 to 254+09.35		RT		9.5					
254+26.43 to 254+34.32		LT		21.3					
254+34.39		LT		17.5					
254+47.46 to 254+56.92		RT		9.5					
254+56.92 to 255+01.82		RT		47.4					
254+79.94 to 254+99.61		LT		27.8					
254+80.08		LT		13.3					
254+99.61 to 256+00.01		LT		100.4					
255+01.82 to 256+00.04		RT		98.3					
255+99.99 to 256+99.99		RT		100.0					
256+00.00 to 257+00.00		LT		100.0					
256+99.99 to 257+99.99		RT		100.0					
257+00.00 to 258+00.00		LT		100.0					
258+00.00 to 259+00.00		RT		100.0					
258+00.00 to 259+00.00		LT		100.0					
259+00.00 to 260+00.00		RT		100.0					
259+00.00 to 260+00.00		LT		100.0					
260+00.00 to 261+00.00		RT		100.0					
260+00.01 to 261+00.01		LT		100.0					
261+00.00 to 262+00.00		RT		100.0					
261+00.01 to 261+74.32		LT		74.3					
261+74.32 to 261+83.21		LT		18.0					
261+83.21 to 261+99.83		LT		16.6					
262+00.00 to 263+00.00		LT		100.0					
262+00.00 to 263+00.00		RT		100.0					
262+34.99		LT		12.0					
263+00.00 to 264+00.00		LT		100.0					
263+00.00 to 264+00.00		RT		100.0					
264+00.00 to 265+00.00		RT		100.0					
264+00.00 to 265+00.00		LT		100.0					
SUR-TOTAL				3385.3					

DATE		REVISIONS		ENGINEER OF RECORD: EltonAlan Consulting Engineers (General Contractors) Certificate of Authorization No. 30320		Michael G. Infante 2553 Appleby Blvd Unit 406 Jacksonville, FL 32224 (904) 890-5300 www.eltonalan.com				NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR: CRAWFORD RD. PHASE II		SUMMARY OF QUANTITIES		SHEET NO. S0-6	
------	--	-----------	--	---	--	---	--	--	--	--	--	-----------------------	--	----------------------------	--

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS
			0104.10		0104.11			
			P	F	P	F		
STA. TO STA.								
264+67.10	LT		12.0					
265+00.00 to 266+00.00	RT		100.0					
265+00.00 to 266+45.66	LT		145.7					
266+00.00 to 267+00.00	RT		100.0					
266+45.66 to 266+63.24	LT		23.2					
266+63.24 to 268+00.00	LT		136.8					
267+00.00 to 268+00.00	RT		100.0					
267+99.99 to 268+99.99	LT		100.0					
268+00.00 to 269+00.00	RT		100.0					
268+99.99 to 269+99.99	LT		100.0					
269+00.00 to 270+00.00	RT		100.0					
269+99.99 to 270+99.99	LT		100.0					
270+00.01 to 271+00.01	RT		100.0					
270+99.99 to 271+99.99	LT		100.0					
271+00.01 to 272+00.01	RT		100.0					
271+99.97 to 272+99.97	RT		100.7					
272+00.01 to 273+00.01	LT		100.0					
272+99.97 to 273+90.97	RT		91.0					
273+00.01 to 273+53.79	LT		53.8					
273+53.79 to 273+70.04	LT		23.0					
273+70.04	LT		9.8					
273+90.97	RT		10.0					
274+05.33	LT		10.5					
274+05.33 to 274+21.28	LT		22.5					
274+21.28 to 274+99.99	LT		78.7					
274+29.84	RT		10.0					
274+29.84 to 275+00.02	RT		70.6					
274+99.97 to 275+99.97	RT		100.0					
275+99.99 to 275+99.99	LT		100.0					
276+00.00 to 277+00.00	RT		100.0					
276+00.00 to 277+00.00	LT		100.0					
277+00.00 to 278+00.00	LT		100.0					
277+00.00 to 278+00.00	RT		100.0					
278+00.00 to 279+00.00	RT		100.0					
278+00.00 to 279+00.00	LT		100.0					
279+00.00 to 280+00.00	RT		100.0					
279+00.00 to 280+00.00	LT		100.0					
279+99.99 to 280+99.99	LT		100.0					
280+00.00 to 281+00.00	RT		100.0					
280+99.99 to 281+99.99	LT		100.0					
281+00.00 to 282+00.00	RT		100.0					
281+99.97 to 282+99.97	LT		100.7					
282+00.01 to 283+00.01	RT		100.0					
282+99.81 to 283+99.81	RT		101.8					
283+00.02 to 284+00.02	LT		100.0					
283+99.97 to 285+07.60	LT		107.7					
284+00.02 to 285+00.02	RT		100.0					
SUB-TOTAL			4007.2					

<table><tr><td>DATE</td><td>DESCRIPTION</td><td>REVISIONS</td></tr><tr><td></td><td></td><td></td></tr></table>			DATE	DESCRIPTION	REVISIONS				<table><tr><td colspan="2">Engineer of Record</td></tr><tr><td colspan="2">EltonAlan</td></tr><tr><td colspan="2">Consulting Engineers Civil/Structural</td></tr><tr><td colspan="2">Certificate of Authorization No. 39320</td></tr></table>		Engineer of Record		EltonAlan		Consulting Engineers Civil/Structural		Certificate of Authorization No. 39320		<table><tr><td colspan="2"></td></tr><tr><td colspan="2">Michael E. Holcomb P.E. # 41047 3553 Airport Blvd. Jacksonville, FL 32224 (904) 891-0360 www.EltonAlan.com</td></tr></table>				Michael E. Holcomb P.E. # 41047 3553 Airport Blvd. Jacksonville, FL 32224 (904) 891-0360 www.EltonAlan.com		<table><tr><td colspan="2">NASSAU COUNTY ENGINEERING</td></tr><tr><td colspan="2">CONSTRUCTION PLANS FOR</td></tr><tr><td colspan="2">CRAWFORD RD., PHASE II</td></tr></table>		NASSAU COUNTY ENGINEERING		CONSTRUCTION PLANS FOR		CRAWFORD RD., PHASE II		SUMMARY OF QUANTITIES		SHEET NO.
DATE	DESCRIPTION	REVISIONS																																	
Engineer of Record																																			
EltonAlan																																			
Consulting Engineers Civil/Structural																																			
Certificate of Authorization No. 39320																																			
																																			
Michael E. Holcomb P.E. # 41047 3553 Airport Blvd. Jacksonville, FL 32224 (904) 891-0360 www.EltonAlan.com																																			
NASSAU COUNTY ENGINEERING																																			
CONSTRUCTION PLANS FOR																																			
CRAWFORD RD., PHASE II																																			
									SQ-7																										
Project Directory\Active Contracts\2024-2025\Nassau County Engineer's Manual - 1-2025\00000000000000000000\Nassau\Specs\40 Phase II\5000000001.DWG									3/2/2025	3/2/2025 10:48 AM																									

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION	SIDE	AREA ID	SEDIMENT BARRIER			FLOATING TURBIDITY BARRIER			DESIGN NOTES	CONSTRUCT ION REMARKS
			P	L	F	P	L	F		
STA. TO STA.										
285+00.02 to 285+31.65	RT		31	6						
285+07.60 to 285+24.06	LT		23	3						
285+24.06	LT		13	3						
285+88.11 to 286+00.19	RT		12	1						
285+99.84 to 286+18.79	LT		26	8						
285+99.98	LT		14	0						
286+00.19 to 287+00.19	RT		101	8						
286+18.79 to 287+00.00	LT		81	2						
286+99.98 to 287+99.98	RT		100	0						
287+00.01 to 288+00.01	LT		100	0						
287+99.98 to 288+99.98	RT		100	0						
288+00.00 to 289+00.00	LT		100	0						
288+99.99 to 289+99.99	RT		100	0						
289+00.00 to 290+00.00	LT		100	0						
289+99.99 to 290+99.99	RT		100	0						
290+00.02 to 291+00.02	LT		100	0						
290+99.99 to 291+99.99	RT		100	0						
291+00.00 to 293+05.07	LT		205	1						
292+00.00 to 293+00.00	RT		100	0						
293+00.00 to 294+00.00	RT		100	0						
293+05.07 to 293+21.92	LT		22	0						
293+21.92 to 294+00.01	LT		78	1						
294+00.00 to 295+00.00	RT		100	0						
294+00.01 to 295+00.01	LT		100	0						
294+67.10	LT		12	0						
295+00.00 to 296+00.00	RT		100	0						
295+00.00 to 296+00.00	LT		100	0						
296+00.01 to 297+00.01	RT		100	0						
296+00.01 to 297+00.01	LT		100	0						
297+00.00 to 298+00.00	LT		100	0						
297+00.01 to 298+00.01	RT		100	0						
297+67.10	LT		12	0						
297+99.99 to 298+99.99	LT		100	0						
298+00.01 to 299+00.01	RT		100	0						
299+00.00 to 300+00.00	LT		100	0						
299+00.00 to 300+00.01	RT		100	0						
300+00.00 to 300+88.62	LT		88	6						
300+00.01 to 301+00.01	RT		100	0						
300+67.10	LT		12	0						
300+88.62 to 301+04.50	LT		17	6						
301+00.01 to 302+00.01	RT		100	0						
301+04.50 to 301+20.22	LT		15	7						
301+51.25 to 301+67.28	LT		16	0						
301+67.28 to 301+80.35	LT		14	7						
301+80.35 to 301+99.99	LT		19	6						
302+00.00 to 303+00.00	LT		100	0						
302+00.01 to 303+00.01	RT		100	0						
SUB-TOTAL			3517.7							

DATE	DESCRIPTION	REVISIONS	DATE

EltonAlan
Consulting Engineers (General Contractors)
Certificate of Authorization No. 30320



FLORIDA
NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD, PHASE II

SUMMARY OF QUANTITIES

SHEET
NO.

SQ-8

5/12/2020 6:23:40 AM

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES									
LOCATION STA. TO STA.	SIDE	AREA /D	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		DESIGN NOTES	CONSTRUCT ION REMARKS	
			P	F	P	F			
302+99.86 to 303+76.92	RT		77.1						
303+00.00 to 303+00.00	LT		200.0						
303+67.10	LT		12.0						
303+76.92 to 303+91.93	RT		21.3						
304+36.63 to 304+46.37	RT		19.0						
304+46.37 to 304+99.99	RT		53.6						
304+99.99 to 305+99.98	LT		100.0						
304+99.99 to 305+99.99	RT		100.0						
305+99.99 to 306+99.99	RT		100.0						
305+99.99 to 306+99.99	LT		100.0						
306+67.10	LT		12.0						
306+99.99 to 307+99.99	LT		100.0						
307+00.00 to 308+00.00	RT		100.0						
307+99.99 to 308+99.99	LT		100.0						
308+00.00 to 309+00.00	RT		100.0						
308+99.99 to 309+99.99	LT		100.0						
308+99.99 to 309+99.99	RT		100.0						
309+67.10	LT		12.0						
309+99.99 to 310+99.99	RT		100.0						
310+00.00 to 311+00.00	LT		100.0						
310+99.99 to 311+99.99	RT		100.0						
311+00.00 to 312+00.00	LT		100.0						
311+99.99 to 312+99.99	RT		100.0						
312+00.00 to 313+00.00	LT		100.0						
312+67.10	LT		12.0						
312+99.99 to 313+99.99	RT		100.0						
313+00.00 to 313+28.99	LT		29.0						
313+63.63 to 314+00.00	LT		36.4						
313+99.99 to 314+99.99	LT		100.0						
314+00.00 to 314+99.99	RT		100.0						
314+99.99 to 315+99.99	RT		100.1						
314+99.99 to 315+99.99	LT		100.0						
315+67.10	LT		12.0						
316+00.00 to 317+00.00	LT		100.0						
316+00.00 to 317+00.00	RT		100.0						
317+00.00 to 318+00.00	RT		100.0						
317+00.00 to 318+00.41	LT		100.4						
318+00.09 to 319+00.00	RT		100.0						
318+00.41 to 318+15.39	LT		21.2						
318+15.39 to 318+84.60	LT		69.2						
318+84.60 to 318+99.51	LT		21.1						
318+99.04	LT		10.0						
319+36.63	RT		7.2						
319+36.63 to 319+99.97	RT		63.5						
319+99.24 to 319+51.84	LT		17.8						
319+39.71	LT		10.0						
319+51.51 to 320+00.00	LT		48.5						
SUB-TOTAL			3365.5						

DATE _____ DESCRIPTION _____		REVISIONS DATE _____		EltonAlan Professional Engineer License No. 12345		Michael S. Johnson P.E. & 6080 3652 Regent Blvd Jacksonville, FL 32224 (904) 890-3600 www.eltonalan.com				MISSISSIPPI COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II		SUMMARY OF QUANTITIES		SHEET NO. 50-9	
------------------------------	--	-------------------------	--	---	--	--	--	---	--	--	--	-----------------------	--	-------------------	--

SUMMARY OF QUANTITIES

NASSAU COUNTY
ENGINEERING

CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II



Michael E. Malcomb
P.E. # 40427
3552 Regent Blvd.
Unit 606
Jacksonville, FL 32222
(904) 891-0360
www.EatonAlan.com

Engineer of Record:
Elton Alan
Consulting Engineers | General Contractors
Certificate of Authorization No. 30320

--	--	--

DESCRIPTION

DATE	
------	--

REVISION	
----------	--

DESCRIPTION

AYE	
-----	--

[illegible]

Subject Directory Active Controls - 0612- Nassau County Credit # Account = LADG00000000000000000000 Speed ID_Place IF_SUMMARY QCN

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES										
LOCATION	SIDE	AREA ID	SEDIMENT BARRIER			FLOATING TURBIDITY BARRIER			DESIGN NOTES	CONSTRUCTION REMARKS
			P	F	LF	P	F	LF		
STA. TO STA.										
419+99.99 to 420+99.99	RT		100.0							
419+99.99 to 420+99.99	LT		100.0							
420+99.99 to 421+99.99	RT		100.0							
421+00.00 to 422+00.00	LT		100.0							
422+00.00 to 423+00.00	LT		100.0							
422+00.00 to 423+00.00	RT		100.0							
422+99.98 to 423+99.98	LT		100.0							
423+00.00 to 424+00.00	RT		100.0							
424+00.00 to 425+00.00	RT		100.0							
424+00.01 to 425+00.01	LT		100.0							
424+99.99 to 425+99.99	LT		100.0							
425+00.00 to 426+00.00	RT		100.0							
426+00.00 to 427+00.00	RT		100.0							
426+00.03 to 427+00.03	LT		100.0							
426+99.85 to 427+16.67	LT		16.8							
427+00.00 to 428+00.00	RT		100.0							
427+16.67 to 427+32.81	LT		20.2							
427+77.00 to 429+00.00	LT		123.0							
428+00.00 to 429+00.00	RT		100.0							
429+00.00 to 430+00.00	LT		100.0							
429+00.00 to 430+00.00	RT		100.0							
429+67.10	LT		12.0							
429+99.99 to 430+99.99	LT		100.0							
430+00.00 to 431+00.00	RT		100.0							
430+99.99 to 432+42.97	LT		143.0							
431+00.00 to 432+00.00	RT		100.0							
432+00.00 to 433+00.00	RT		100.0							
432+42.97 to 432+62.17	LT		23.2							
432+62.17 to 434+00.00	LT		137.8							
433+00.00 to 434+00.00	RT		100.0							
434+00.00 to 435+00.00	RT		100.0							
434+00.00 to 435+00.00	LT		100.0							
435+00.01 to 436+03.83	LT		103.8							
435+00.05 to 436+13.72	RT		113.8							
436+03.83 to 436+14.91	LT		15.7							
436+13.25	RT		7.5							
436+14.77	LT		10.0							
436+39.35	LT		10.0							
436+39.35 to 436+52.16	LT		18.1							
436+39.44 to 437+00.10	RT		60.7							
436+39.91	RT		7.1							
436+52.16 to 438+24.08	LT		171.9							
436+99.97 to 437+99.97	RT		100.0							
438+00.00 to 439+00.00	RT		100.0							
438+24.08 to 438+38.42	LT		18.6							
438+38.42 to 440+00.01	LT		161.6							
439+00.04 to 440+00.04	RT		100.1							
SUB-TOTAL			3975.0							

DATE		DESCRIPTION	REVISIONS	DATE	SHEET NO.	
					SQ-15	
Elton Alan Professional Engineer Civil/Structural Certificate of Authorization No. 38326 3653 N. Highway 101 Jacksonville, FL 32224 (904) 891-0360 www.eltonalan.com					NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II	
SUMMARY OF QUANTITIES					3/12/2020 8:25:33 AM	

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES											
LOCATION STA. TO STA.		SIDE	AREA ID	SEDIMENT BARRIER			FLOATING TURBIDITY BARRIER			DESIGN NOTES	CONSTRUCTION REMARKS
				LF			P				
439+15.48	LT		12.0								
440+00.01 to 441+00.01	LT		100.0								
440+00.02 to 441+00.02	RT		100.0								
441+00.01 to 442+00.01	RT		100.0								
441+00.01 to 442+00.01	LT		100.0								
441+67.10	LT		12.0								
442+00.01 to 443+00.01	LT		100.0								
442+00.01 to 443+00.01	RT		100.0								
443+00.01 to 444+00.01	LT		100.0								
443+00.02 to 444+00.02	RT		100.0								
443+99.95 to 446+91.08	RT		291.5								
444+00.01 to 445+00.01	LT		100.0								
444+67.20	LT		9.7								
445+00.01 to 445+59.63	LT		59.7								
445+59.63 to 445+77.17	LT		21.0								
445+77.17 to 445+95.69	LT		40.6								
446+48.81 to 446+50.71	LT		41.8								
446+48.81 to 446+62.08	LT		23.7								
446+62.08 to 446+93.46	LT		34.2								
184+20.04 to 184+35.14	LT					28.8					
184+25.74 to 184+65.98	RT					44.1					
184+35.18 to 184+60.06	LT					25.0					
201+14.84 to 202+13.22	LT					101.7					
201+32.54 to 202+01.33	RT					70.3					
254+10.03 to 254+46.62	RT					38.7					
254+35.39 to 254+79.35	LT					44.9					
273+71.50 to 274+04.89	LT					34.5					
273+91.63 to 274+30.39	RT					39.1					
285+25.98 to 285+98.87	LT					75.1					
285+32.55 to 285+87.97	RT					56.0					
319+00.96 to 319+37.19	LT					38.0					
319+05.12 to 319+32.64	RT					27.8					
436+14.85 to 436+38.16	RT					23.5					
436+16.18 to 436+39.11	LT					23.6					
SUB-TOTAL			1446.5			671.2					

DATE		DESCRIPTION	REVISIONS	DATE	NASSAU COUNTY ENGINEERING		SHEET NO.
					CONSTRUCTION PLANS FOR: CRAWFORD RD. PHASE II		SQ-16
					SUMMARY OF QUANTITIES		
					8/12/2028		
					8:29:31 AM		

Engineer of Record:
Elton Alan
Professional Engineer
Certificate of Authorization No. 39326

Michael S. Holcomb
P.E. & M.A.
3853 Regency Blvd
Jacksonville, FL 32224
(904) 896-0280
www.EltonAlan.com



SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120 1	ROADWAY EXCAVATION, MAINLINE	17747.00			
	TOTAL REGULAR EXCAVATION	17747.00			
0120 6	EMBANKMENT, MAINLINE	67271.00			
	TOTAL EMBANKMENT	67271.00			

SUMMARY OF GUARDRAIL											
LOCATION	SIDE	GUARDRAIL		SPECIAL GUARDRAIL POST ENCLOSURE ALLOW		END ANCHORAGE ASSEMBLY PARALLEL		END ANCHORAGE ASSEMBLY TYPE 11		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F	P	F	P	F	P	F		
STA. TO STA.		0536	1 1	0536	7 3	0536	85 24	0536	85 25		
182+53.70 TO 184+91.20	RT	237.50		3		2				Crossing 3	
189+54.90 TO 202+36.10	RT	281.20		7		2				Crossing 4	
252+38.50 TO 254+76.00	RT	237.50		5		2				Crossing 5	
272+17.30 TO 274+54.80	RT	237.50		4		2				Crossing 6	
283+56.80 TO 286+25.50	RT	268.70		8		2				Crossing 7	
317+78.70 TO 319+66.20	RT	187.50		2		2				Crossing 8	
434+38.10 TO 436+69.30	RT	231.20		1		2				Crossing 9	
SUB-TOTAL:		1681.10		30		14					
TOTAL:		1681.10		30		14					

DATE		DESCRIPTION		REVISIONS		DATE		DESCRIPTION	
 EltonAlan Professional Engineer (General Contractors) Certificate of Authorization No. 22336 www.EltonAlan.com Michael E. Johnson P.E. # 18840 3653 Regent Blvd Jacksonville, FL 32224 (904) 894-0360									
MARSHALL COUNTY ENGINEERING						SUMMARY OF QUANTITIES			
CONSTRUCTION PLANS FOR						50-17			
CRAWFORD RD. PHASE II						3/12/2028 3:25:37 AM			

SUMMARY OF QUANTITIES

DATE		REVISIONS		Engineer of Record:		Michael E. Helcombo P.E. #4447 3853 Aspen Way Unit #66 Jacksonville, FL 32224 (904) 891-0360 www.EltonAlan.com				NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II		SUMMARY OF QUANTITIES		SHEET NO.		S0-18	
DESCRIPTION		DATE		DESCRIPTION													

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT										
LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL (TN)			DESIGN NOTES	CONSTRUCTION REMARKS
						P	F	0339 1		
182+43.70 to 185+01.20	RT	181804			2		21.30		2" LIFT	
199+00.53 to 202+10.28	RT	181805			2		24.50		2" LIFT	
251+83.05 to 254+55.30	RT	181806			2		21.30		2" LIFT	
271+61.19 to 274+33.44	RT	181807			2		21.50		2" LIFT	
283+03.28 to 286+00.53	RT	181808			2		23.75		2" LIFT	
316+75.01 to 319+47.26	RT	181809			2		17.35		2" LIFT	
433+87.30 to 436+47.05	RT	181810			2		21.01		2" LIFT	
SUB-TOTAL:						150.71				
TOTAL:						150.7				

LOCATION		SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL (TW)		DESIGN NOTES	CONSTRUCTION REMARKS
STA.	TO STA.						P	F		
182+43.70	to 185+01.20	RT	181804			2	21.30		2" LIFT	
199+00.53	to 202+10.28	RT	181805			2	24.50		2" LIFT	
251+83.05	to 254+55.30	RT	181806			2	21.30		2" LIFT	
271+61.19	to 274+33.44	RT	181807			2	21.50		2" LIFT	
283+03.28	to 286+00.53	RT	181808			2	23.75		2" LIFT	
316+75.01	to 319+47.26	RT	181809			2	17.35		2" LIFT	
433+87.30	to 436+47.05	RT	181810			2	21.01		2" LIFT	
SUB-TOTAL:						150.71				
TOTAL:						150.71				

for 65529

SUMMARY OF PERFORMANCE TURF									
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF		PERFORMANCE TURF (500)		CONSTRUCTION REMARKS
					0570	1	0570	1	
STA. TO STA.	RT	180250			P	F	P	F	
437+00.00 to 446+91.11	RT	180250					146.9		
446+38.21 to 446+91.11	LT/RT	180261					16.6		
SUB-TOTAL							164		

REVISIONS DATE DESCRIPTION		ENGINEER OF RECORD EltonAlan Consulting Engineers (Consulting) Certificate of Authorization No. 39220 www.EltonAlan.com		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II		SHEET NO. SQ-26
				SUMMARY OF QUANTITIES		

[illegible]

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB. DISCHARGE	50 YR.FREQ. STAGE	1% PROB. DISCHARGE	100 YR.FREQ. STAGE	DISCHARGE	STAGE	PROB. %	FREQ. YR.	DISCHARGE	STAGE	PROB. %	FREQ. YR.
S-300 / S-301	184+44.86 / 184+44.86	53.0	73.73	62.0	74.82	99.22	75.40	0.248	402.7				
S-400 / S-401	201+71.49 / 201+66.51	950.0	62.59	1136.0	63.41	1420.45	64.80	0.384	261				
S-500 / S-501	254+56.59 / 254+29.23	141.0	63.13	175.0	63.77	237.35	65.20	0.281	356				
S-600 / S-601	273+87.52 / 274+09.54	86.0	64.17	103.0	64.75	124.95	65.60	0.616	162				
S-700 / S-701	285+46.78 / 285+61.78	747.0	66.35	894.0	67.21	968.67	67.80	0.727	138				
S-800 / S-801	319+19.37 / 319+19.37	128.0	75.98	149.0	76.51	140.93	76.30	1.305	76.6				
S-900 / S-901	436+27.13 / 436+27.13	33.0	88.66	47.0	89.39	38.79	89.30	1.501	66.6				

NOTE:

DEFINITIONS:

DESIGN FLOOD:

THE FLOOD SELECTED BY F.D.O.T. TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.

BASE FLOOD:

THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR. (100 YR. FREQUENCY)

OVERTOPPING FLOOD:

THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (B) OVER A WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.

GREATEST FLOOD:

THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YR. FREQUENCY)

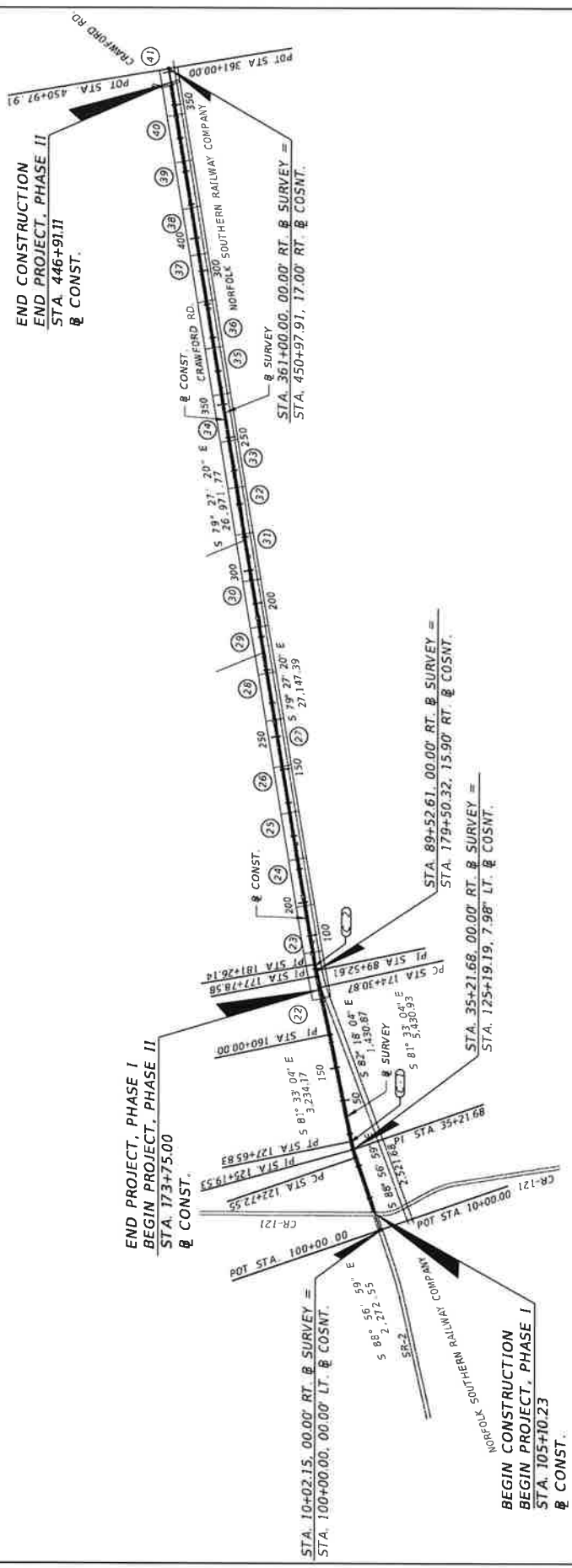
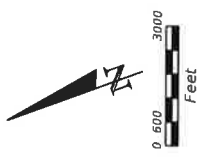
PREPARED BY:

DATE:

DATE		REVISIONS		DESCRIPTION		EltonAlan		Michael E. Nelson P.E. # 40447 3653 Regent Blvd Jacksonville, FL 32224 (904) 981-0360 www.EltonAlan.com		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II		FLOOD DATA		SHEET NO. 17	
Z:\Projects\Inventory\Active\CONTRACTS\084-9012-Robert County Crawford Road\Phase II\084-9012-02.dwg															

CURVE DATA C-1
 PI STA. = 125+19.53
 Δ = 7° 23' 55" (RT)
 D = 1" 30' 00"
 L = 48.29
 R = 3,820.00
 PC STA. = 122+72.55
 PT STA. = 127+65.83
 e = 0.037

CURVE DATA C-2
 PI STA. = 177+78.58
 Δ = 2° 50' 44" (RT)
 D = 0° 24' 33"
 L = 347.77
 R = 15,500.00
 PC STA. = 174+30.87
 PT STA. = 181+26.14
 e = N.C.



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Engineer of Record:
Elton Alan
 Michael J. Holmboe
 P.E. # 40842
 3853 Regent Blvd.
 Jacksonville, FL 32224
 (904) 894-0360
 www.EltonAlan.com
 Certificate of Authorization No. 30320

NASSAU COUNTY
 ENGINEERING
 CONSTRUCTION PLANS FOR:
CRAWFORD RD. PHASE II

PROJECT LAYOUT

SHEET NO. 18

E-PROJECT Discretionary Contract#084-0917- BAYVIEW County Contract# Speed 40, Project ID#PLAVR062 DCN

REVISIONS		DATE		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION		
				Engineer of Record: Elton Alan Michael S. Pellegrino P.E. # 40947 3453 Rogers Blvd. Jacksonville, FL 32224 (904) 896-0860 www.EltonAlan.com Certificate of Authorization No. 30320  NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR: CRAWFORD RD. PHASE II BENCHMARKS AND REFERENCE POINTS SHEET NO. 20	

C19	TBM22	TBM26	C29
STA: 234+29.00 10.59' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 266+38.44 35.03' LT RR SPIKE IN 11" PINE ELEV=82.73'	STA: 306+05.65 44.81' RT SET R/R SPIKE IN 10" PINE TREE ELEV=88.17'	STA: 337+61.98 7.41' RT SET 1/2" IP W\N TRAV. CAP LB6979
TBM19	YCA16	C26	TBM20
STA: 234+89.89 43.37' RT RR SPIKE IN 10" MAPLE ELEV=74.20	STA: 270+25.42 12.71' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 307+63.76 13.89' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 338+41.46 29.10' LT SET R/R SPIKE IN 10" PINE TREE ELEV=88.60
YCA21	C23	YCA11	YCA5
STA: 237+72.12 16.86' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 276+26.30 26.92' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 311+30.94 14.62' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 340+43.91 16.78' LT SET 1/2" IP W\N TRAV. CAP LB6979
YCA20	TBM23	YCA10	YCA4
STA: 241+01.84 16.89' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 276+40.59 28.35' LT RR SPIKE IN 11" PINE ELEV=86.05	STA: 314+77.08 13.11' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 343+29.32 15.14' LT SET 1/2" IP W\N TRAV. CAP LB6979
TBM20	YCA15	TBM27	GPS7
STA: 244+79.77 27.12' LT RR SPIKE IN 7" PINE ELEV=77.88'	STA: 282+01.34 9.50' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 317+52.08 26.68' LT SET R/R SPIKE IN 14" PINE TREE ELEV=89.47	STA: 346+09.85 6.58' RT SET IRON W/ TRAV CAP LB6979
C20	C24	C27	TBM30
STA: 245+02.79 18.11' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 286+81.02 12.89' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 317+94.56 9.60' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 346+97.43 26.40' LT SET R/R SPIKE IN 13" PINE TREE ELEV=87.67
YCA19	TBM24	YCA9	YCA3
STA: 249+79.30 4.76' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 288+65.56 65.35' RT SET RR SPIKE IN ASPH. ELEV=90.58	STA: 321+96.39 12.55' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 348+54.12 13.61' LT SET 1/2" IP W\N TRAV. CAP LB6979
YCA18	YCA14	YCA8	YCA2
STA: 252+78.54 17.77' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 291+19.94 13.17' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 325+26.84 13.11' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 351+51.68 13.59' LT SET 1/2" IP W\N TRAV. CAP LB6979
C21	C25	C28	YCA1
STA: 255+54.02 21.28' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 297+06.46 22.13' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 328+46.39 12.42' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 354+32.21 11.60' LT SET 1/2" IP W\N TRAV. CAP LB6979
TBM21	TBM25	TBM28	TBM31
STA: 256+33.97 29.92' LT RR SPIKE IN 8" PINE ELEV=79.77	STA: 297+78.77 33.27' LT SET R/R SPIKE IN 6" PINE TREE ELEV=87.72	STA: 328+84.96 27.29' LT SET R/R SPIKE IN 11" PINE TREE ELEV=89.33	STA: 356+93.48 23.03' LT SET R/R SPIKE IN 9" PINE TREE ELEV=88.95
YCA17	YCA13	YCA7	GPS8
STA: 259+78.73 8.35' RT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 300+99.74 15.62' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 331+38.98 12.77' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 357+54.16 31.22' RT SET IRON W/ TRAV CAP LB6979
C22	YCA12	YCA6	
STA: 265+99.77 17.42' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 304+41.28 16.35' LT SET 1/2" IP W\N TRAV. CAP LB6979	STA: 334+41.35 11.91' LT SET 1/2" IP W\N TRAV. CAP LB6979	

NOTE: ALL STATIONS AND OFFSETS SHOWN ARE BASED OFF 0 SURVEY.

NOTE: ALL STATIONS AND OFFSETS SHOWN ARE BASED OFF 8 SURVEY.

1. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS.
2. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS LISTED BELOW THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. PRIOR TO ANY CONSTRUCTION ON THE PROJECT SITE. THE FOLLOWING LIST OF UTILITY COMPANIES HAVE FACILITIES WITHIN THE PROJECT LIMITS.

UTILITY COMPANY	CONTACT	TELEPHONE NUMBER
WINDSTREAM COMMUNICATION	GARY CARY	(386) 462-6530
FLORIDA POWER & LIGHT	TRACY STERN	(386) 235-5152
MCI	BRYAN LANTZ	(813) 760-1231
OCEANOR RURAL ELECTRIC MEMBERSHIP COR	ROY DIXES	(904) 845-7477 EXT-3385
SOUTHERN NATURAL GAS COMPANY	TOM TAVNER	(770) 478-6465

AT NO ADDITIONAL COST TO THE COUNTY, THE CONTRACTOR MAY BE REQUIRED TO PHYSICALLY EXPOSE AND SUPPORT UNDERGROUND UTILITY LOCATIONS TO CONFORM WITH ANY UNLAWFUL OR UNLAWFUL UTILITY RELOCATIONS BY UTILITY COMPANY AND/OR PROVIDE ANY NECESSARY SUPPORT TO AERIAL UTILITIES AS REQUIRED NECESSARY TO PERFORM CONSTRUCTION. CONTRACTOR MUST NOTIFY UTILITY COMPANY 24 HOURS PRIOR TO ANY SUCH WORK.

3. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT OR BENCHMARK IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE COUNTY WITHOUT DELAY. BY TELEPHONE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXPENSES ENCOUNTERED.

4. THE CONTRACTOR SHALL NOT ALLOW ANY ASPHALT SHOULDS, TO BE SWEEPED OR BLOWN, ONTO UNPAVED SHOULDER AREAS, INTO DRAINAGE STRUCTURES, OR DITCHES. CONTRACTOR SHOULD CLEAN UP DAILY AND HAVE A MECHANICAL BROOM AVAILABLE.

5. ACCESS TO ALL SIDE STREETS AND FPL EASEMENT SHALL BE MAINTAINED AT ALL TIMES.

6. ALL WORK PERFORMED WITHIN THE COUNTY RIGHT-OF-WAY, MATERIALS AND TESTING SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF MASSAU COUNTY STANDARDS, (LATEST REVISION) AND ALL CURRENT MASSAU COUNTY STANDARD DETAILS. THE CONTRACTOR SHALL COMPLY WITH CURRENT FLORIDA ACCESSIBILITY CODE FOR ALL WORK ON THIS PROJECT.

7. WORK SHALL BE PERFORMED IN SAFE MANNER, ALL SAFETY RULES AND GUIDELINES OF OSHA, SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THE CONTRACT. THE CONTRACTOR IS ALSO UNKED TO TAKE COLOR PHOTOGRAPHS THROUGHOUT THE PROJECT AREA TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN THE POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.

9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY INFORMATION FROM THE COUNTY RECORDS TO DETERMINE THE LOCATION OF ANY EXISTING PIT, AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED. CONTRACTOR TO USE AN FOOT APPROVED PIT.

10. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD 89).

11. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING AND/OR OWNER CELLS. THIS SHALL INCLUDE DENSITY TEST IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING NPDES PERMITS, ETC.

13. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN MASSAU COUNTY RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.

14. AS-BUILT DRAWINGS (2 PAPERS & 1 CAD) AS-BUILT TO MASSAU COUNTY ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR TO PREPARE THE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING AND/OR OWNER CELLS. THIS SHALL INCLUDE DENSITY TEST IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING.

15. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH ALL OTHER CONTRACTORS IN THE AREA. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION. CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY UTILITIES, DITCHES AND BIRNS INCLUDED IN THIS PROJECT, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING AND/OR OWNER CELLS. THIS SHALL INCLUDE DENSITY TEST IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING.

16. ALL SOIL ON SEED AND MULCH ALL DISTURBED AREAS (AS SHOWN ON TYPICAL SECTIONS).

17. AREAS SHOWN TO BE FILLED SHALL BE CLEANED AND GRUBBED IN ACCORDANCE WITH FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 206, SECTION III.

18. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.

19. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR.

20. ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.

21. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.

22. CONTRACTOR SHALL CERTIFY THAT ALL SOD WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE BERMUDA AND SHALL BE FREE OF NOXIOUS WEEDS & GRASSES, INCLUDING TROPICAL SODA APPLE. CERTIFICATION SHALL BE PROVIDED PRIOR TO INSTALLATION.

23. ALL STORM SEWER PIPE MATERIALS SHALL BE RCP. ALL PIPE INSTALLATIONS WILL FOLLOW MANUFACTURERS RECOMMENDATIONS. MASSAU COUNTY AND FOOT REQUIREMENTS AND JOINTS WRAPPED WITH FILTER FABRIC PER FOOT REQUIREMENTS.

24. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH MASSAU COUNTY AND FOOT REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH PROPERTY LINES AND LOT POINTS AS SHOWN ON THE PLANS.

25. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.

26. A PRE-CONSTRUCTION MEETING IS REQUIRED TO BE ATTENDED BY MASSAU COUNTY REPRESENTATIVES, THE CONTRACTOR, OC (CONTRACTOR'S TESTING FIRM), SUB-CONTRACTORS, UTILITY COMPANIES, AND THE ENGINEER OF RECORD.

27. CONTRACTOR WILL BE RESPONSIBLE FOR THE RELOCATION OF ALL STANDARD MAILBOXES IN ACCORDANCE WITH POSTAL REQUIREMENTS.

28. CONTRACTOR IS TO SUBMIT A DISASTER PREPAREDNESS PLAN AT THE PRE-CONSTRUCTION CONFERENCE.

29. THE REMOVAL OF MUCK AND PLASTIC MATERIAL WITHIN THE PROJECT LIMITS SHALL BE IN ACCORDANCE WITH THE FOOT STANDARD INDEX NO. 50X.

30. ALL WORK PERFORMED WITHIN COUNTY'S RIGHT-OF-WAY SHALL CONFORM TO MASSAU COUNTY'S ORDINANCE 99-17 AND TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (ENGLISH)
FOOT PLANS PREP MANUAL (ENGLISH)
FOOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION

31. BURNING OF ANY MATERIAL OR DEBRIS IS PROHIBITED IN COUNTY'S RIGHT OF WAY.

32. THE CONTRACTOR SHALL PERFORM NO WORK DURING HOLIDAYS AND THE FCAT NIGHT AND WEEKEND WORK WILL NOT BE ALLOWED EXCEPT AS SPECIFIED IN COUNTY. ANY CHANGES TO THESE RESTRICTIONS MUST BE APPROVED BY MASSAU COUNTY ENGINEERING SERVICES DEPARTMENT.

33. ALL ASPHALT MILLING ITEMS TO BE SALVAGED SHALL BE DELIVERED TO THE HILLIARD YARD. CONTRACTOR TO COORDINATE DELIVERY WITH THE MASSAU COUNTY ROAD AND BRIDGE FIELD MANAGER, DAVID HEARN.

34. CONTRACTOR SHALL MAINTAIN POSTAL SERVICE ACCESS AT ALL TIME.

NORFOLK SOUTHERN RAILWAY COMPANY GENERAL NOTES

1. ALL WORK ON, OVER, OR ADJACENT THE NORFOLK SOUTHERN RIGHT-OF-WAY SHALL CONFORM TO NORFOLK SOUTHERN SPECIAL PROVISIONS FOR THE PROTECTION OF RAILWAY INTERESTS.
2. THE CONTRACTOR SHALL COORDINATE HIS WORK ON OR ADJACENT TO RAILROAD RIGHT-OF-WAY WITH THE FOLLOWING REPRESENTATIVES OF THE RAILROAD:

NORFOLK SOUTHERN CONTACTS BELOW:

William Lindsey
Norfolk Southern Corporation
Track Supervisor II
400 S Fry St. Wallops, VA 23081
(802) 383-5042
William.lindsey@nscorp.com

Jacob Watson
Norfolk Southern Corporation
Engineer - Public Improvements
1000 Peachtree Street, Atlanta, GA 30309
Jacob.watson@nscorp.com



Michael A. Williams
P.E. & A.M.A.S.E.
3653 Regent Ave.
Jacksonville, FL 32224
(904) 891-0360
www.EltonAlan.com

EltonAlan
Consulting Engineers (General Contractors)
Certificate of Authorization No. 30310

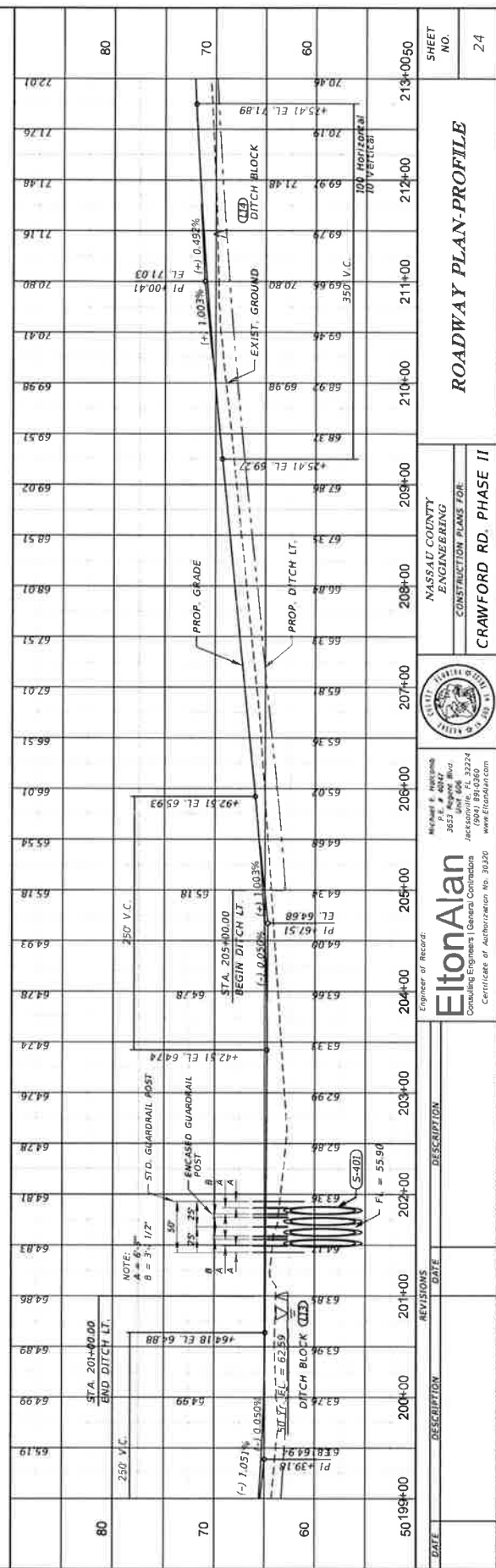
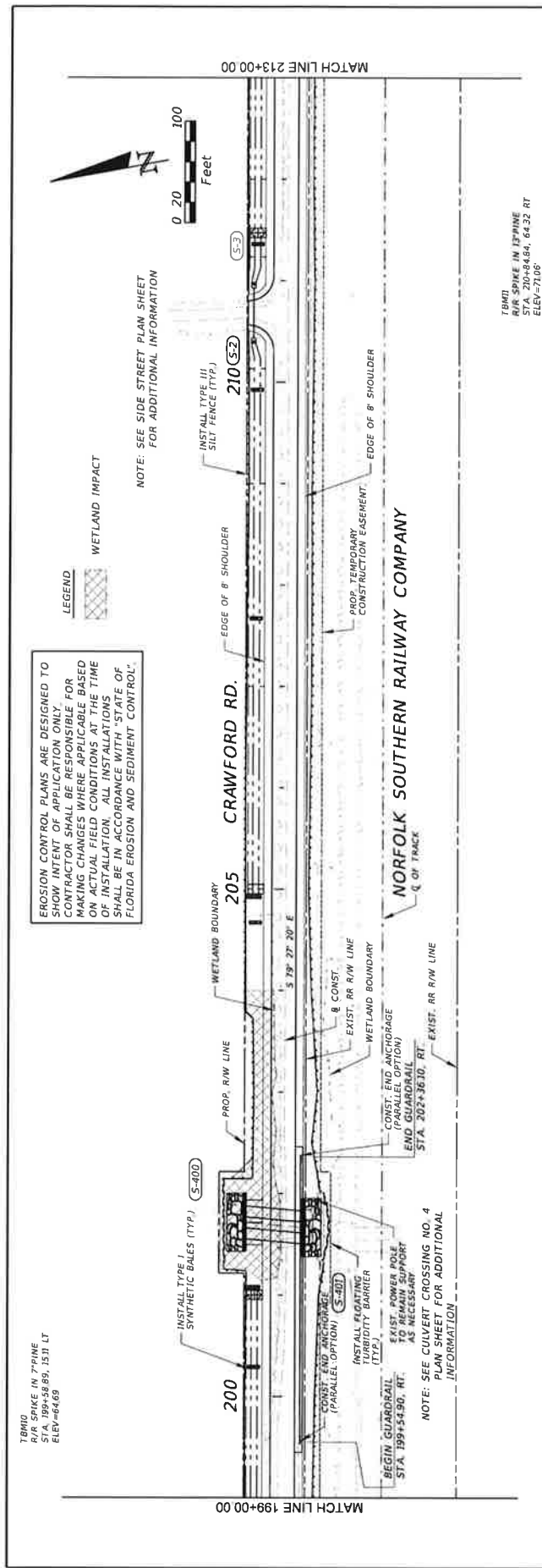
DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

SHEET NO. 21

GENERAL NOTES

CONSTRUCTION PLANS FOR:
CRAWFORD RD. PHASE II

8/21/2024



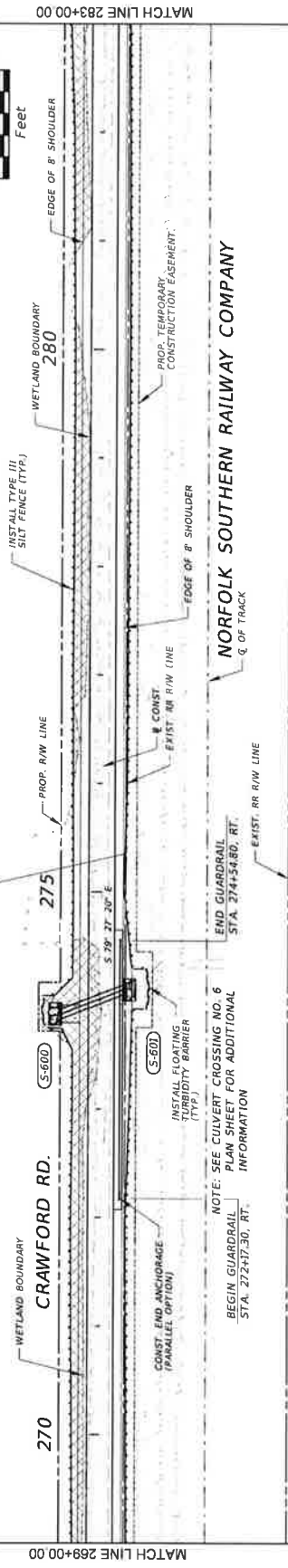
Z:\Project Directories\Active Contracts\004-0072-Nassau County Criminals\Saves to Phase III\EXAM0102

TBMIS
RR SPIKE IN 15' OAK
STA. 273+27.78, 5.02 LT
ELEV=64.42

EROSION CONTROL PLANS ARE DESIGNED TO
SHOW INTENT OF APPLICATION ONLY.
CONTRACTOR SHALL BE RESPONSIBLE FOR
MAKING CHANGES WHERE APPLICABLE BASED
ON ACTUAL FIELD CONDITIONS AT THE TIME
OF INSTALLATION. ALL INSTALLATIONS
SHALL BE IN ACCORDANCE WITH "STATE OF
FLORIDA EROSION AND SEDIMENT CONTROL".

LEGEND

WETLAND IMPACT



NORFOLK SOUTHERN RAILWAY COMPANY

NOTE: SEE CULVERT CROSSING NO. 6
PLAN SHEET FOR ADDITIONAL
INFORMATION

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
6/5/07	270+00	271+00	272+00	273+00
6/5/07	273+00	274+00	275+00	276+00
6/5/07	276+00	277+00	278+00	279+00
6/5/07	279+00	280+00	281+00	282+00
6/5/07	282+00	283+00		

Michael A. Hargis
P.E. & M.B.
3535 Regent Blvd
Jacksonville, FL 32224
(904) 894-9360
www.EltonAlan.com

Engineer of Record:

EltonAlan

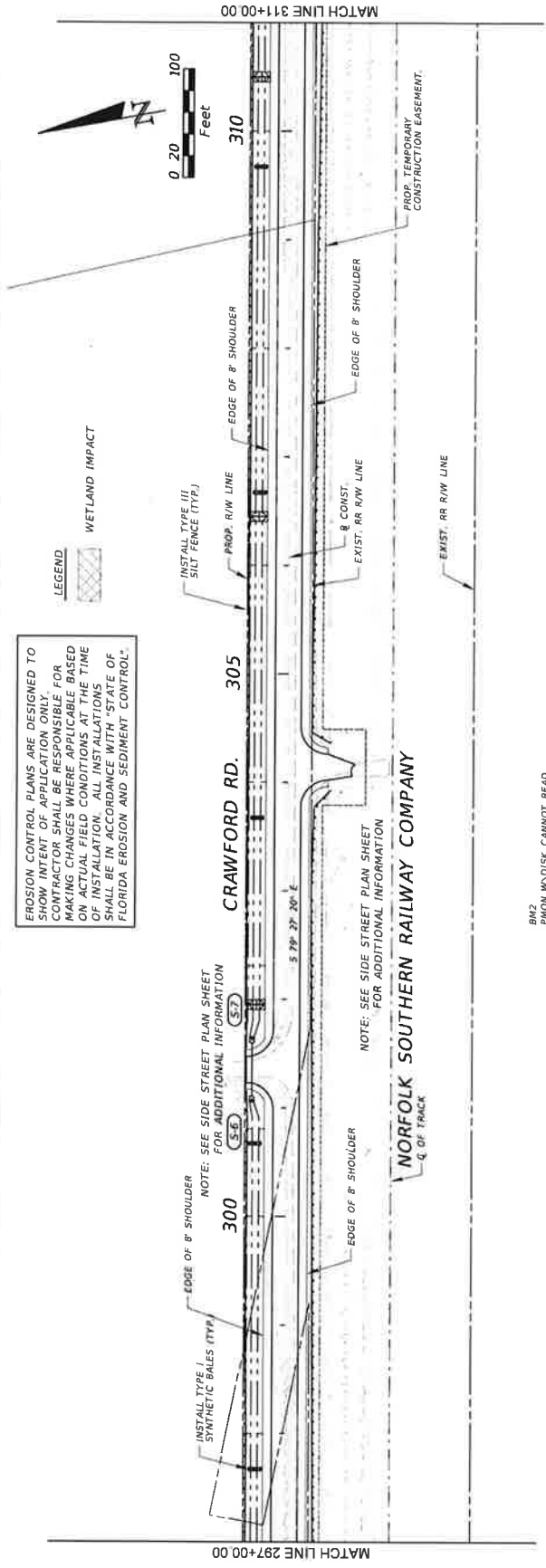
Consulting Engineers (General Contractors)
Certificate of Authorization No. 30220

YASSAULT COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II

ROADWAY PLAN PROFILE

SHEET NO. 29

EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "STATE OF FLORIDA EROSION AND SEDIMENT CONTROL".



BM2
PLOW W/DISK CANNOT READ
STATION 303+40.79, 128.32 FT
ELEV=72.46

STATION	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80												
50+297+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
298+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
299+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
300+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
301+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
302+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
303+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
304+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
305+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
306+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
307+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
308+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
309+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
310+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88
311+00	71.61	71.73	71.77	71.85	71.97	72.09	72.21	72.33	72.45	72.57	72.69	72.81	72.93	73.05	73.17	73.29	73.41	73.53	73.65	73.77	73.89	74.01	74.14	74.26	74.39	74.51	74.63	74.76	74.88

Elton Alan
Engineer of Record
3653 Maple Ridge
Jacksonville, FL 32224
(904) 894-0389
www.EltonAlan.com

Certificate of Authorization No. 30320

Michael R. Williams
P.E. & R.N.
3653 Maple Ridge
Jacksonville, FL 32224
(904) 894-0389
www.EltonAlan.com

Certificate of Authorization No. 30320

ROADWAY PLAN PROFILE

CRAWFORD RD. PHASE II

DATE

DESCRIPTION

REVISIONS

DATE

50+297+00

298+00

299+00

300+00

301+00

302+00

303+00

304+00

305+00

306+00

307+00

308+00

309+00

310+00

311+00

80

70

60

50

40

30

20

10

0

10

20

30

40

50

60

70

80

2

[illegible]

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.

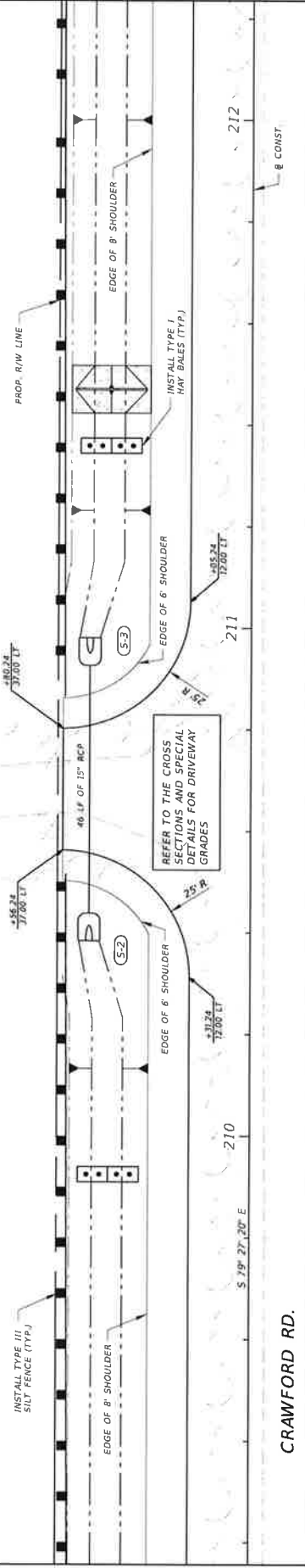
[illegible]

EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".

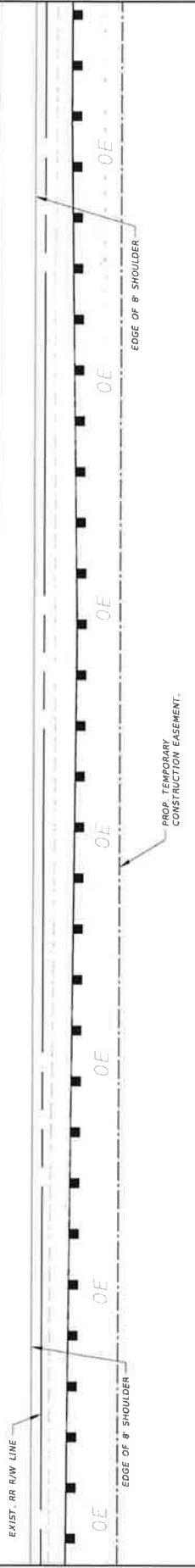


(S-2)
STA. 300+40.41 (3170 LT)
CONST. 15" SIDEDRAIN
MITERED END SECTION (1:4)
FL 68.09
INDEX NO. 273

(S-3)
STA. 200+95.06 (3170 LT)
CONST. 15" SIDEDRAIN
MITERED END SECTION (1:4)
FL 68.56
INDEX NO. 273



CRAWFORD RD.



NORFOLK SOUTHERN RAILWAY COMPANY

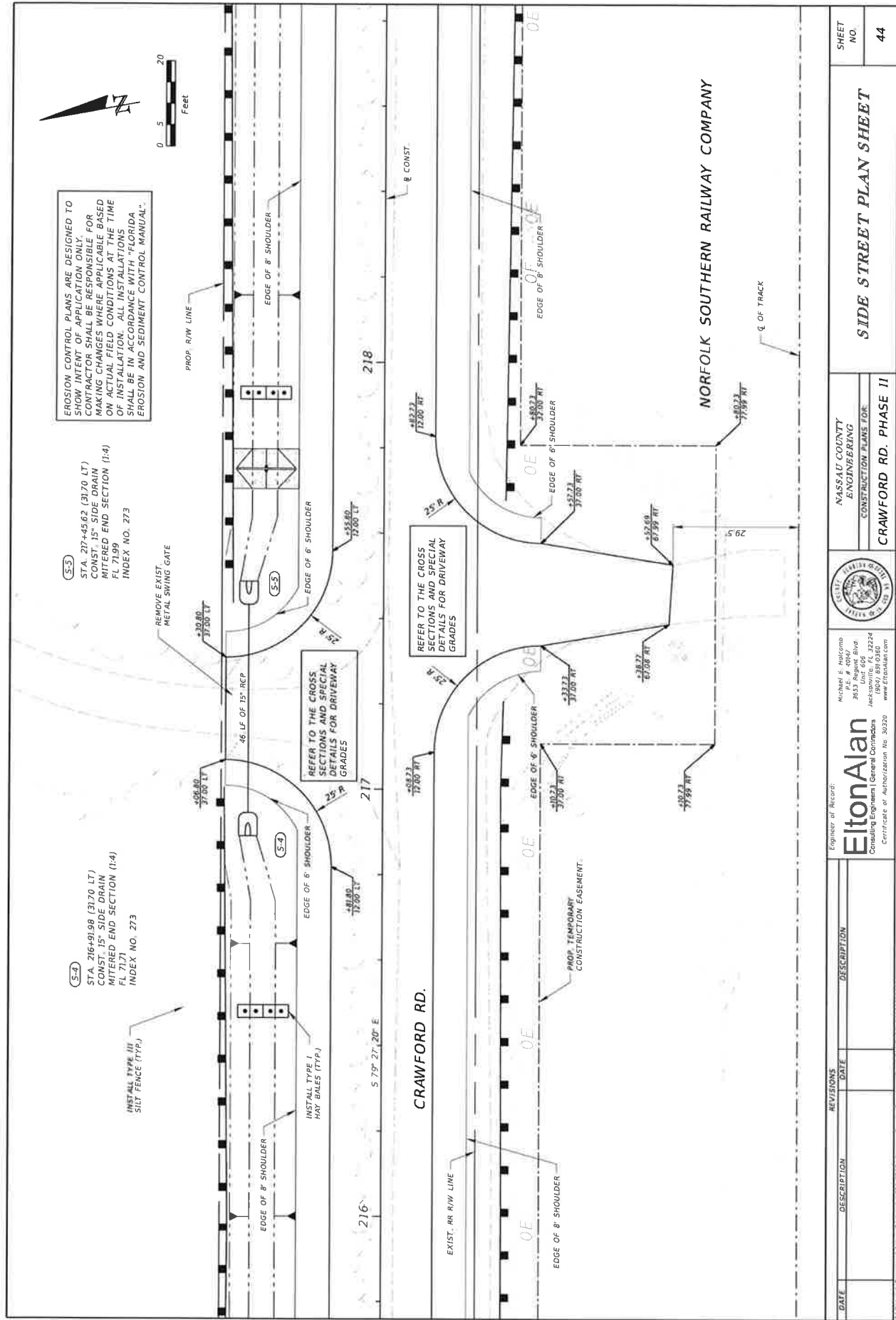
REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

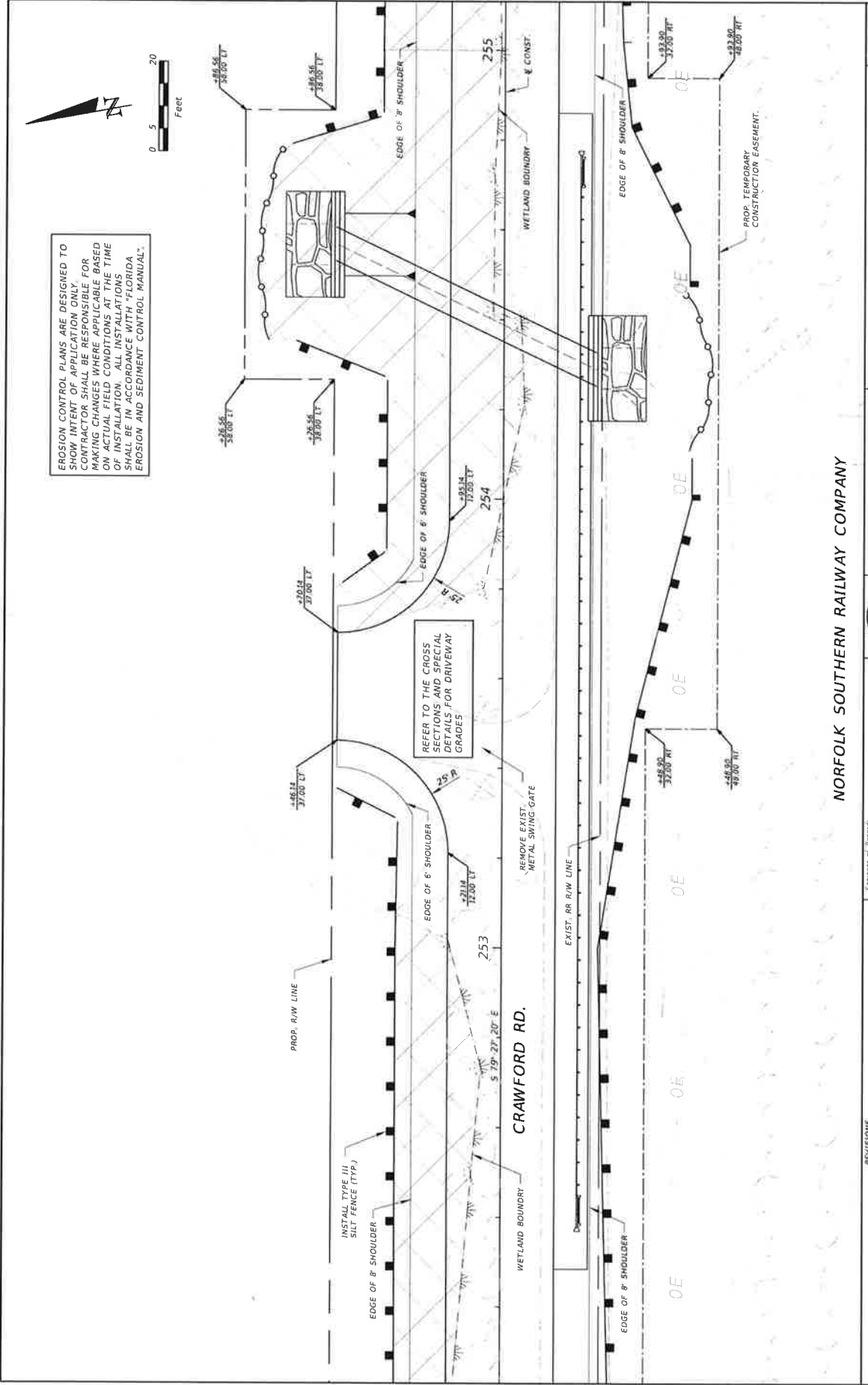
Engineer of Record
Elton Alan
Michael J. Williams
P.E. # 40147
3653 Regent Blvd
Jacksonville, FL 32224
(904) 891-0860
www.eltonalan.com
Certificate of Authorization No. 30320

NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II

SHEET NO. 43

SIDE STREET PLAN SHEET





EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".

REVISIONS		DESCRIPTION	
DATE	BY	DESCRIPTION	DATE

EltonAlan
 Michael E. Elton, P.E.
 353 S. 4th St.
 Jacksonville, FL 32204
 904.241.1111
 www.eltonalan.com
 Certificate of Authorization No. 30320

NASSAU COUNTY
 ENGINEERING
 CONSTRUCTION PLANS FOR
 CRAWFORD RD. PHASE II

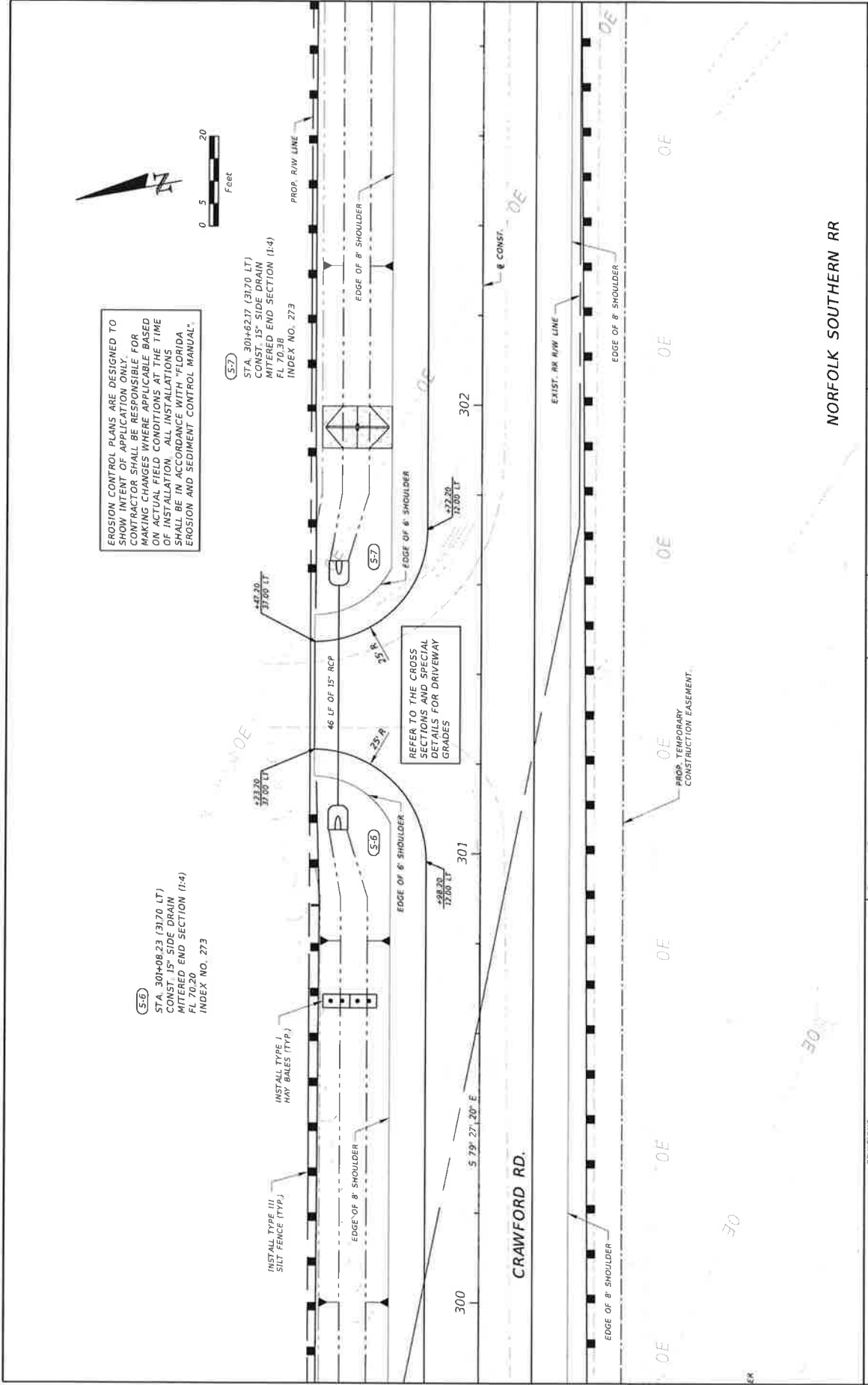


NORFOLK SOUTHERN RAILWAY COMPANY

SIDE STREET PLAN SHEET

SHEET NO. 46

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.



EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".

(S-6)
STA. 301+08.23 (3170 LT)
CONST. 15" SIDE DRAIN
MITERED END SECTION (1-4)
FL 70.20
INDEX NO. 273

(S-7)
STA. 301+62.17 (3170 LT)
CONST. 15" SIDE DRAIN
MITERED END SECTION (1-4)
FL 70.30
INDEX NO. 273

REFER TO THE CROSS
SECTION AND SPECIAL
DETAILS FOR DRIVEWAY
GRADES

REVISIONS		DATE		DESCRIPTION	

ENGINEER OF RECORD
Elton Alan
Michael E. Williams
P.E. # 40412
3653 Regent Blvd.
Jacksonville, FL 32224
(904) 894-0360
www.eltonalan.com
Certificate of Authorization No. 39320

NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II



3/17/2020 8:28:59 AM

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.

MP 51.67 0 DNV/2117

Category	Number of people
Apple	10
Banana	10
Orange	10
None	20



SIDE STREET PLAN SHEET

100

© 2005 Blackwell Publishing Ltd, *Journal of Internal Medicine* 258: 113–124

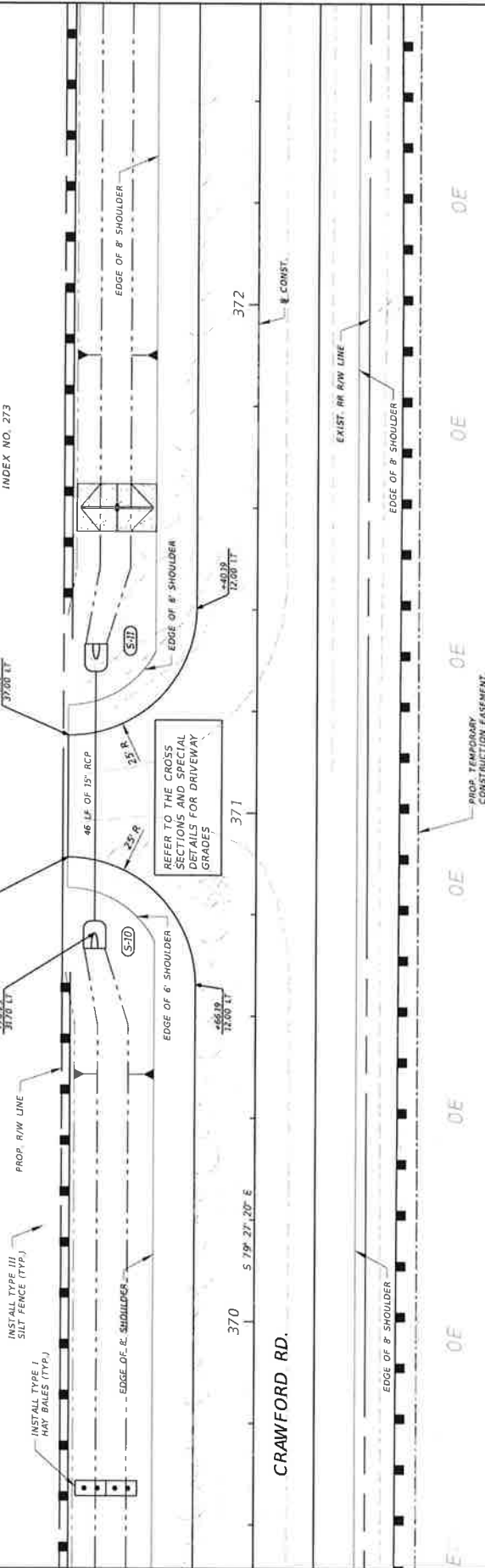
EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".



(S-10)
STA. 370+76.23 (3170 LT)
CONST. 15" SIDE DRAIN
MITERED END SECTION (1:4)
FL 85.28
INDEX NO. 273

(S-11)
STA. 371+30.16 (3170 LT)
CONST. 15" SIDE DRAIN
MITERED END SECTION (1:4)
FL 85.40
INDEX NO. 273

REFER TO THE CROSS SECTIONS AND SPECIAL DETAILS FOR DRIVEWAY GRADES



CRAWFORD RD.

NORFOLK SOUTHERN RAILWAY COMPANY

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II



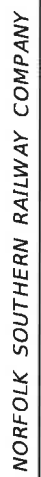
Michael E. Elton
P.E. # 12512
3653 Regent Blvd
Jacksonville, FL 32224
(904) 894-0360
www.eltoninc.com
Certificate of Authorization No. 20250

Engineer of Record
EltonAlan

SHEET NO. 51

SIDE STREET PLAN SHEET

5/17/2020 8:22:38 AM

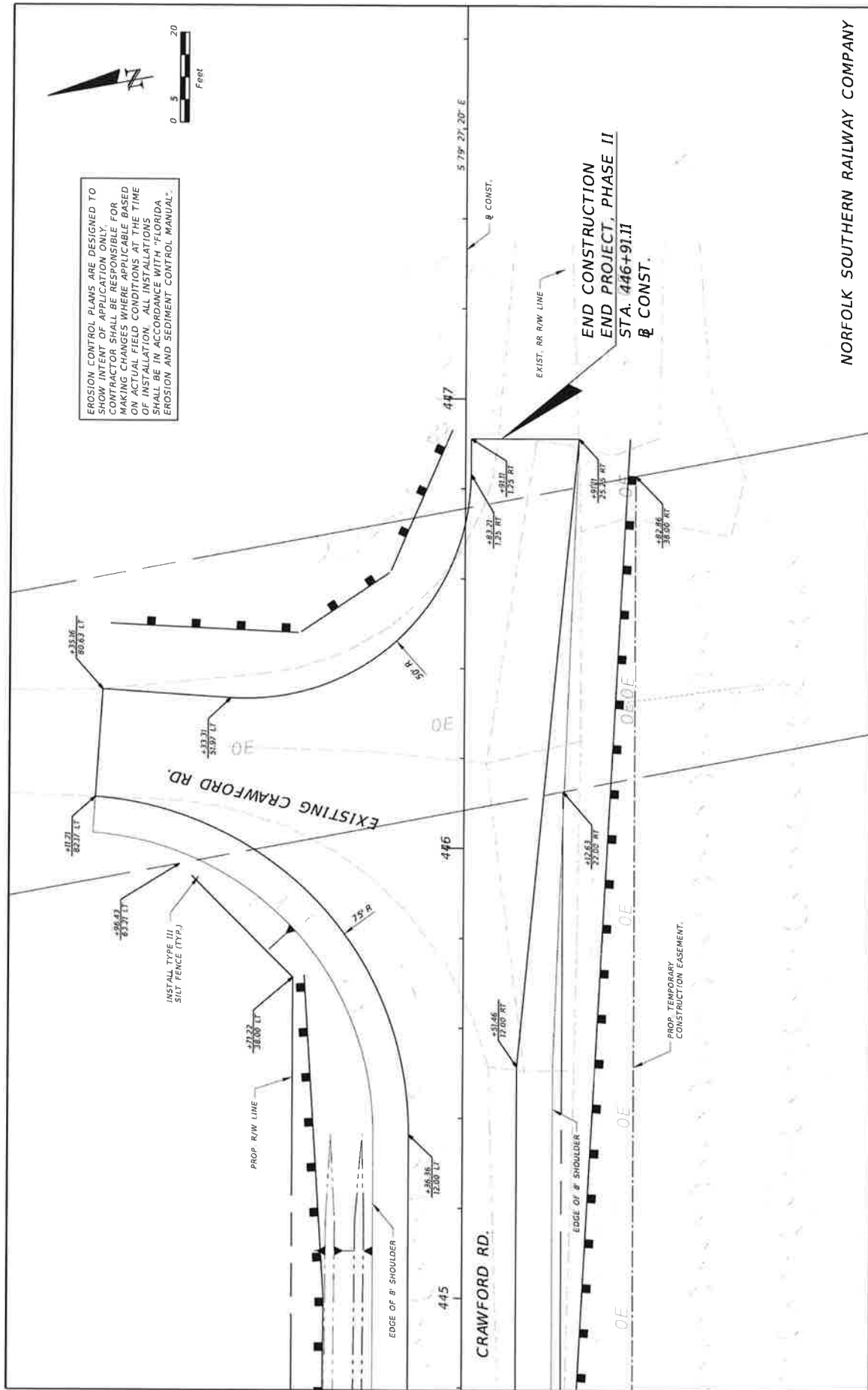


THE AUTHOR
ANDREW J. COOPER



NASSAU COUNTY
ENGINEERING

SIDE STREET PLAN SHEET



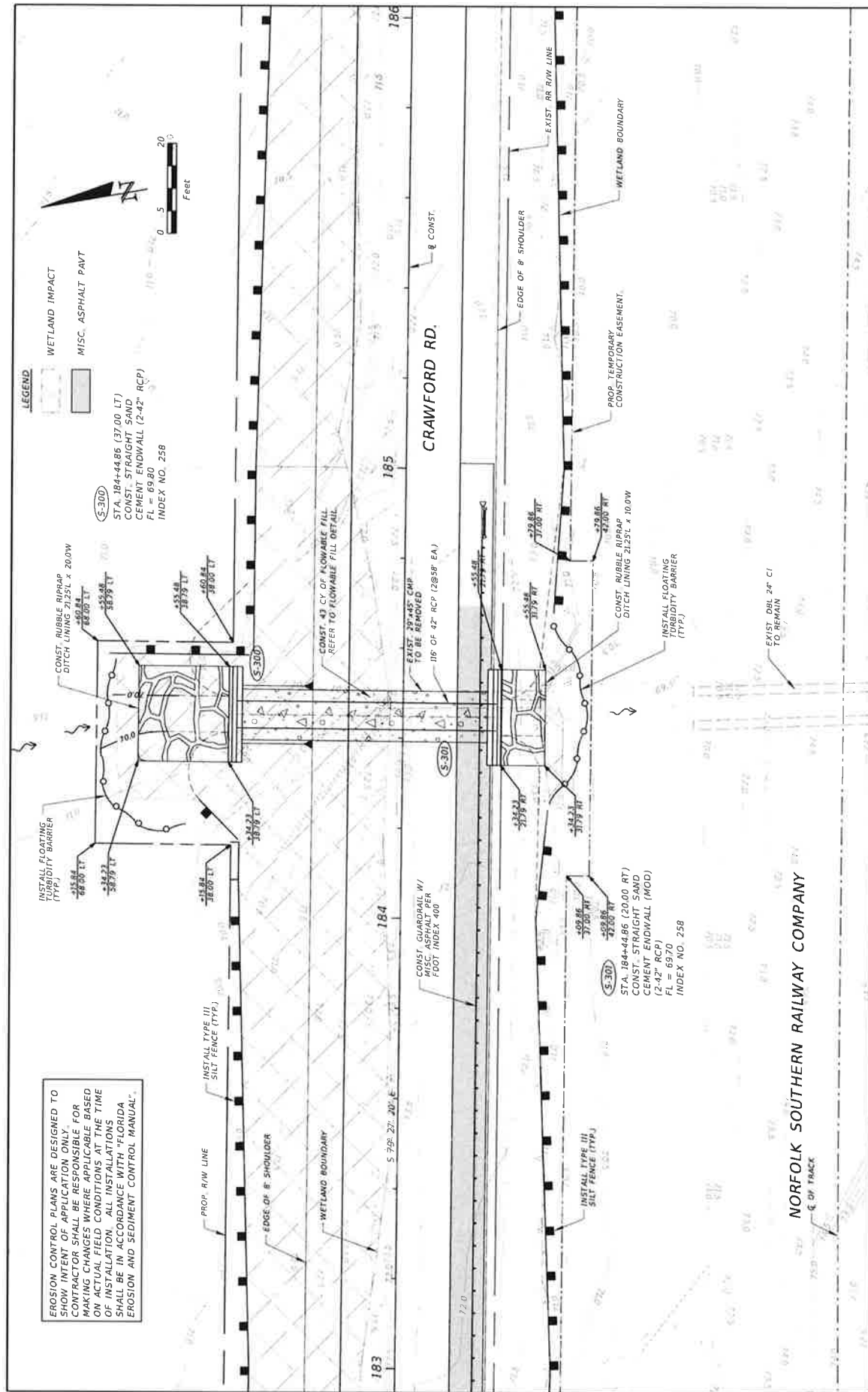
CRAWFORD RD.

END CONSTRUCTION
END PROJECT, PHASE II
STA. 446+91.11
B CONST.

NORFOLK SOUTHERN RAILWAY COMPANY

REVISIONS		DESCRIPTION		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	
Engineer of Record: EltonAlan Michael E. Holcomb P.E. # 40442 3553 Regent Blvd Unit 406 Jacksonville, FL 32224 (904) 885-0560 www.EltonAlan.com Consulting Engineers General Contractors Certificate of Authorization No. 301320				FLORIDA REGISTERED PROFESSIONAL ENGINEER SEAL
NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II				

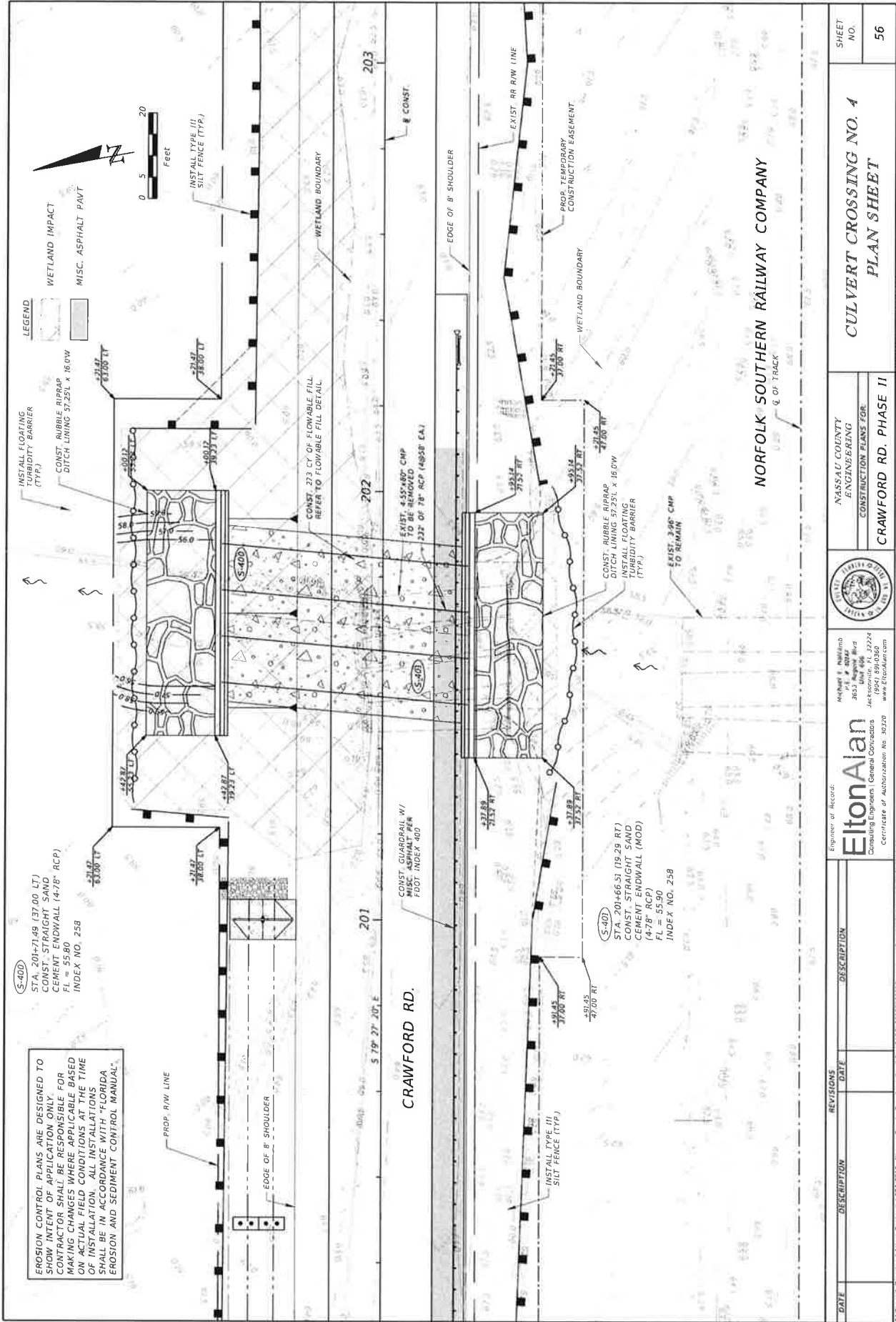
REVISIONS		DESCRIPTION		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	
Engineer of Record: EltonAlan Michael E. Holcomb P.E. # 40442 3553 Regent Blvd Unit 406 Jacksonville, FL 32224 (904) 885-0560 www.EltonAlan.com Consulting Engineers General Contractors Certificate of Authorization No. 301320				FLORIDA REGISTERED PROFESSIONAL ENGINEER SEAL
NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD. PHASE II				



	DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
Elton Alan Consulting Engineers General Contractors Certificate of Authorization No. 30392					
Engineer at Record:					
 Michael J. Polidoro P.E., # 40847 3833 Regard Blvd. Unit 406 Jensen Beach, FL 33424 (888) 848-9365 www.EltonAlan.com					
				NASSAU COUNTY ENGINEERING	SHEET NO.
				CONSTRUCTION PLANS FOR: CRAWFORD RD. PHASE II	55
CULVERT CROSSING NO. 3					PLAN SHEET

[illegible]

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.



EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON INSTALLED FIELD CONDITIONS AT THE TIME OF INSTALLATION. EROSION CONTROL SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".

(S-400)
STA. 201+71.49 (37.00 LT)
CONST. STRAIGHT SAND
CEMENT ENDWALL (4'-78" RCP)
FL = 55.80
INDEX NO. 258

(S-400)
STA. 201+66.51 (19.28 RT)
CONST. STRAIGHT SAND
CEMENT ENDWALL (MOD)
(4'-78" RCP)
FL = 55.90
INDEX NO. 258

REVISIONS		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record:
Elton Alan
3653 Regent Blvd
Unit 404
Jacksonville, FL 32216
(904) 894-0360
www.EltonAlan.com

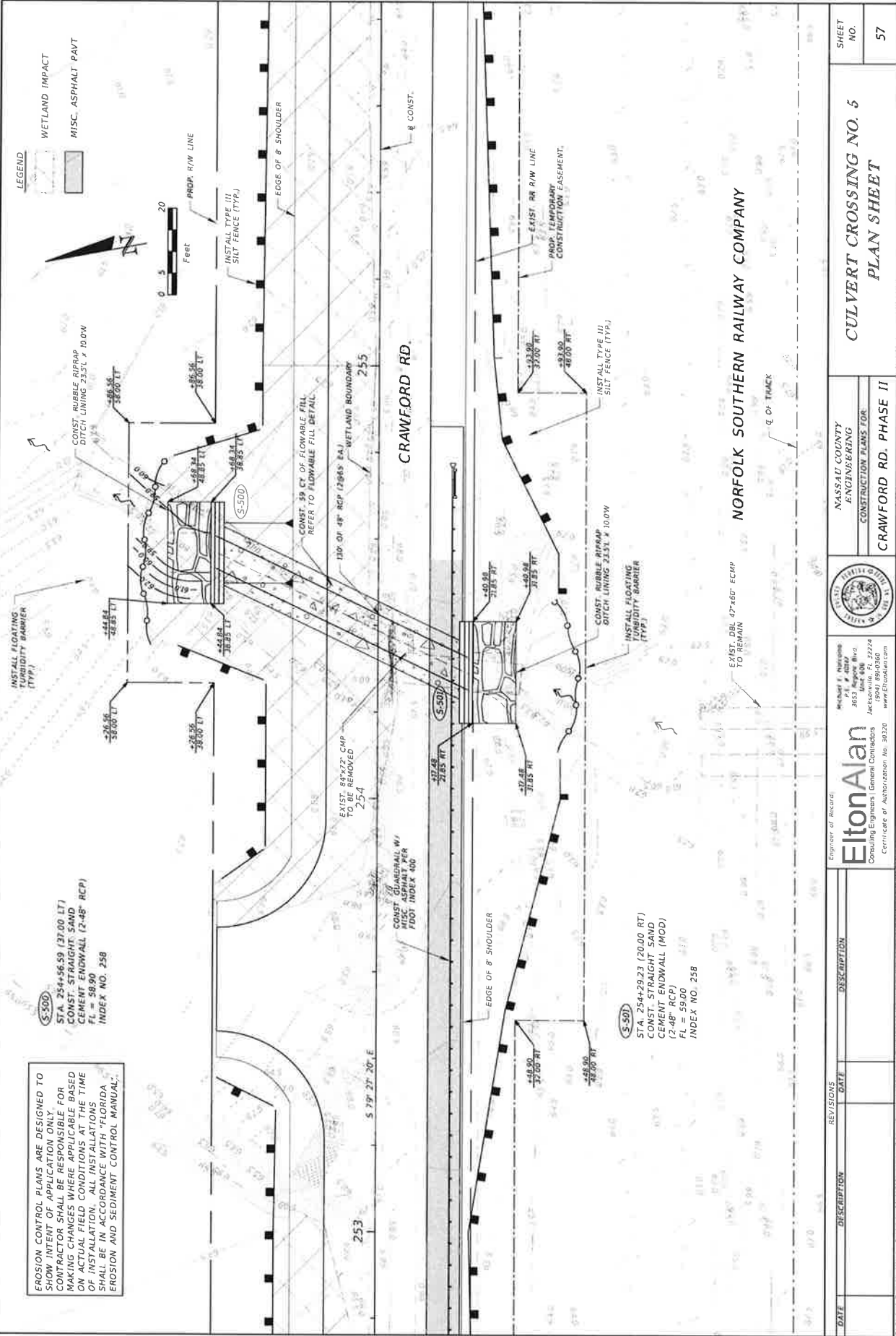
Professional Engineer
No. 30220
www.EltonAlan.com

NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II

CULVERT CROSSING NO. 4
PLAN SHEET

SHEET
NO.
56

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.



EROSION CONTROL PLANS ARE DESIGNED TO
S. CONTRACTOR SHALL BE RESPONSIBLE FOR
MAKING CHANGES WHERE APPLICABLE BASED
ON ACTUAL FIELD CONDITIONS AT THE TIME
OF INSTALLATION. ALL INSTALLATIONS
SHALL BE IN ACCORDANCE WITH "FLORIDA
EROSION AND SEDIMENT CONTROL MANUAL".

S-500
STA. 254+56.59 (27.00 LT)
CONST. STRAIGHT SAND
CEMENT ENDWALL (2'x4" RCP)
FL = 58.90
INDEX NO. 258

S-500
STA. 254+29.23 (20.00 RT)
CONST. STRAIGHT SAND
CEMENT ENDWALL (MOD)
(2'x4" RCP)
FL = 59.00
INDEX NO. 258

DATE	DESCRIPTION	REVISIONS	DESCRIPTION	DATE

Michael J. Nelson
3653 Regatta Blvd
Jacksonville, FL 32214
(904) 894-0360
www.EltonAlan.com

EltonAlan
Engineer of Record
Consulting Engineers | General Contractors
Certificate of Authorization No. 30320
www.EltonAlan.com

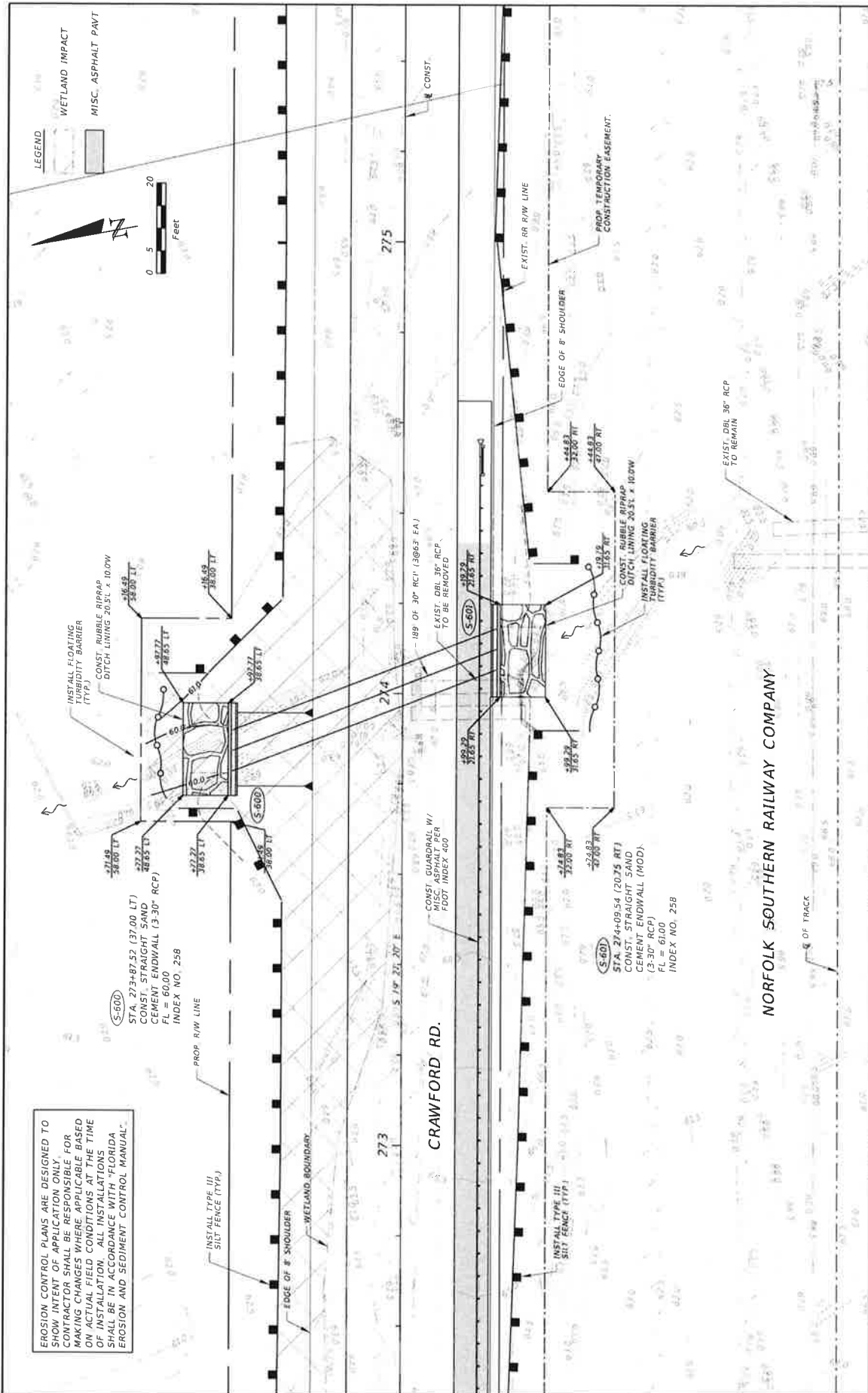
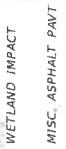
NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II

CULVERT CROSSING NO. 5
PLAN SHEET

SHEET
NO.
57

EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".

LEGEND



NORFOLK SOUTHERN RAILWAY COMPANY

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

Michael E. Halcrow

 3653 Ridge Rd.

 Jacksonville, FL 32246

 (904) 891-0860

 www.EltonAlan.com

NASSAU COUNTY

 ENGINEERING

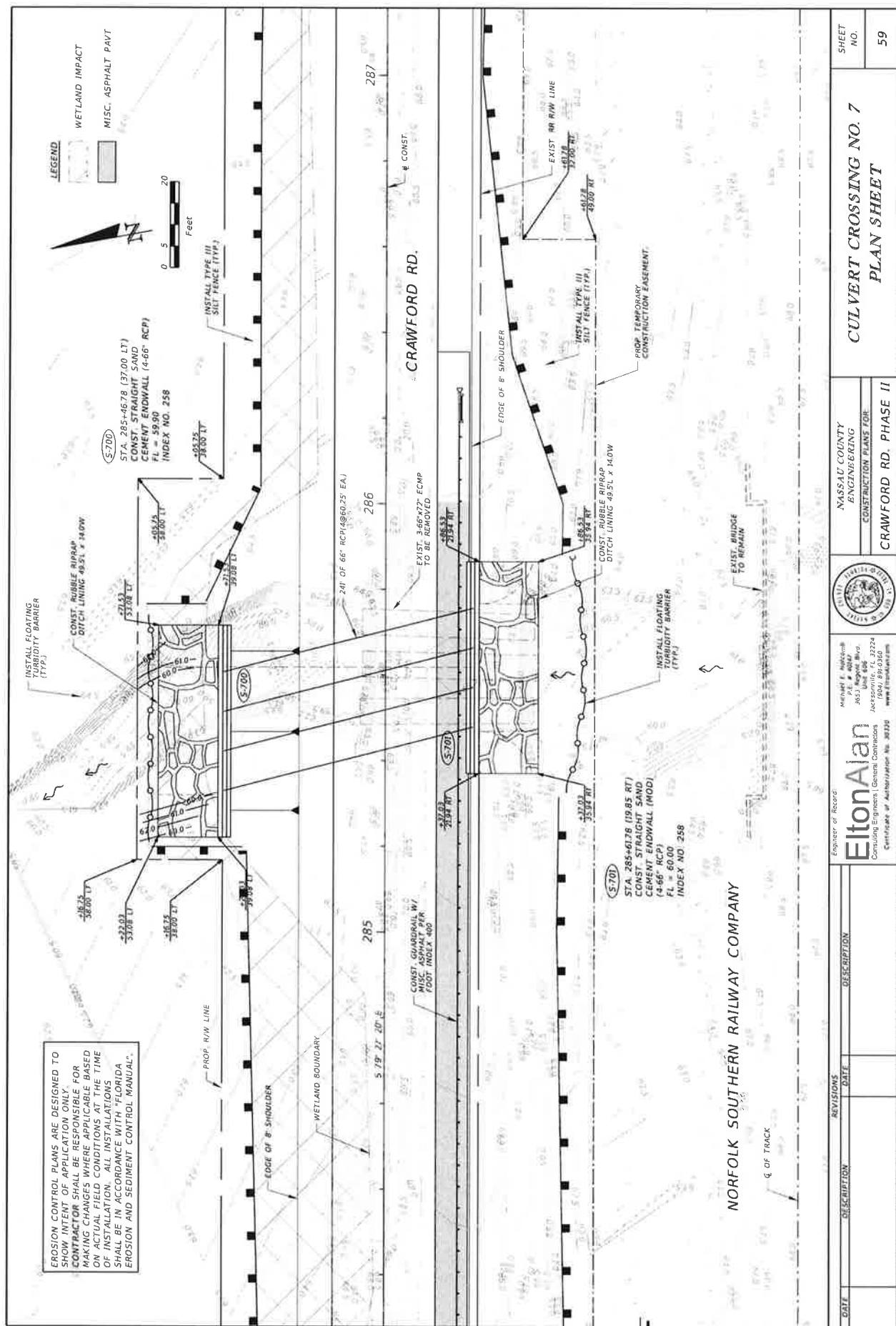
 CONSTRUCTION PLANS FOR

 CRAWFORD RD. PHASE II

SHEET

 NO.

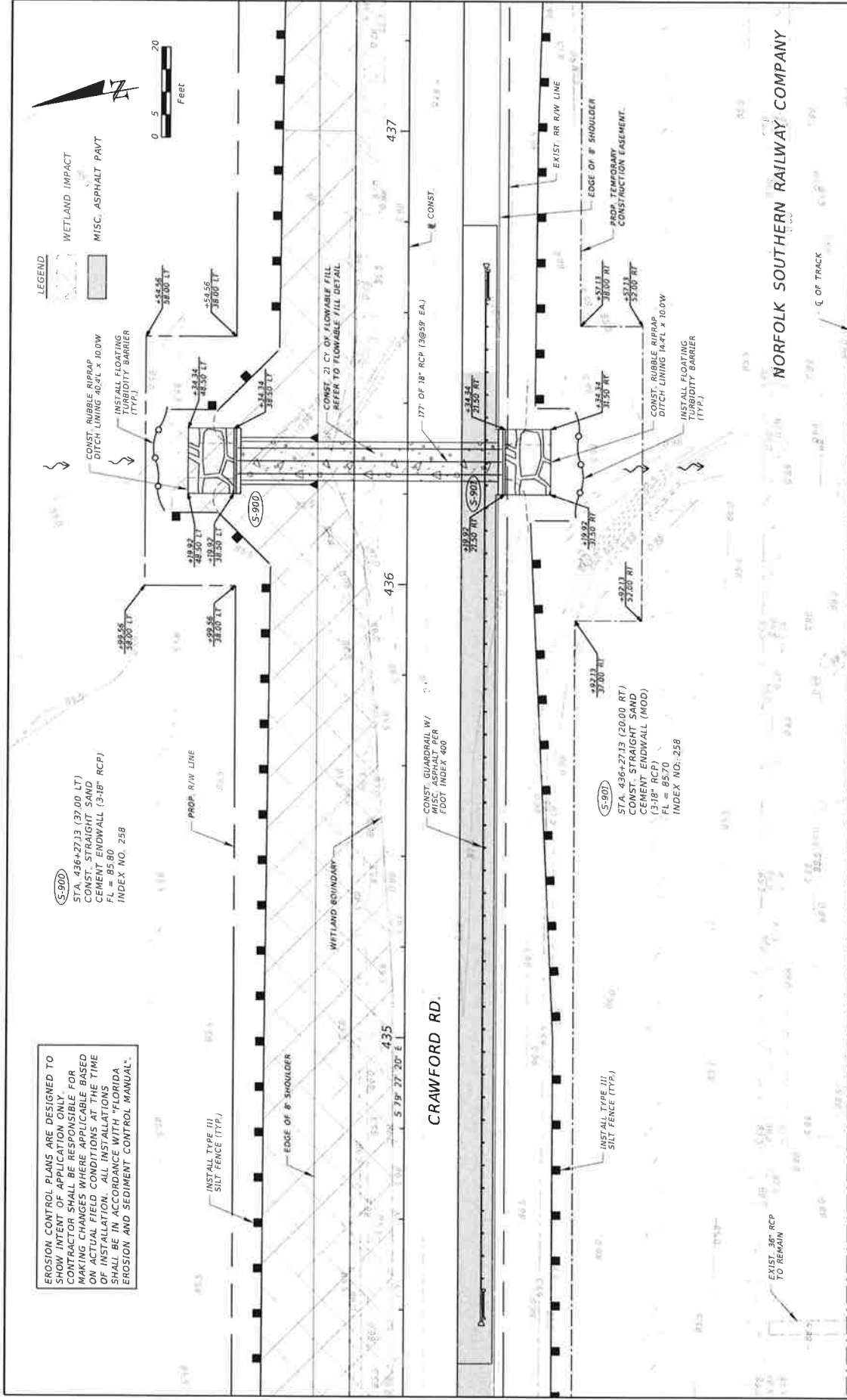
 58



EROSION CONTROL PLANS ARE DESIGNED TO SHOW INTENT OF APPLICATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING CHANGES WHERE APPLICABLE BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL".

(S-900)
STA. 436+27.13 (37.00 LT)
CONST. STRAIGHT SAND
CEMENT ENDWALL (3-18" RCP)
FL = 85.80
INDEX NO. 258

LEGEND
WETLAND IMPACT
MISC. ASPHALT PAVT



NORFOLK SOUTHERN RAILWAY COMPANY

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION



Elton Alan
Professional Engineer
General Contractors
Certificate of Authorization No. 25236
www.eltonalan.com
Address: 6 Jackson
P.O. Box 400
3853 Rogers Blvd
Jacksonville, FL 32224
(904) 891-0260

NASSAU COUNTY
ENGINEERING
CONSTRUCTION PLANS FOR
CRAWFORD RD. PHASE II
SHEET NO. 61
CULVERT CROSSING NO. 9
PLAN SHEET
11/11/2020 1:20:29 PM

DATE OF SURVEY: JUNE 2015
SURVEY MADE BY: MESKEL & ASSOCIATES
ENGINEERING, PLLC
SUBMITTED BY: PRODNEY MARK, P.E.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: 2
ROAD NO.: CRAWFORD
COUNTY: NASSAU

PROJECT NO.: 004.0012
PROJECT NAME: CRAWFORD ROAD PHASE II - FROM OLD ALABAMA TRAIL TO CRAWFORD ROAD
CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADWAY

SURVEY BEGINS STA : 173+75.00 SURVEY ENDS STA : 435+51.47

REFERENCE : 1. CONSTRUCTION

REPORT OF TESTS

STATION NO.	ORGANIC CONTENT TESTS	MOISTURE CONTENT TESTS	SIEVE ANALYSIS RESULTS					ATTERBERG LIMITS (%)			L.B.R. TEST	DESCRIPTION	CORROSION DATA				SUBSTRUCTURE ENVIRONMENTAL CLASSIFICATION	
	PERCENT ORGANICS	% OF MOISTURE	NO. OF TESTS	W/ 20 MESH	W/ 40 MESH	W/ 60 MESH	W/ 100 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX			AL OF TESTS	pH	RESISTIVITY (OHM CM)	CHEMIDES (PPM)	SULFATES (PPM)	STEEL CORROSION
1	-	8	100	100	100	100	100	40-72	7-10	-	-	A-3	GRAY-BROWN, LIGHT BROWN TO BROWN, BROWN TO DARK BROWN, GRAY TO DARK GRAY-BROWN, DARK TO VERY DARK GRAY-BROWN, FINE SAND TO FINE SAND WITH SILT, OCCASIONALLY WITH TRACE TO FEW ROOTS, GRAVEL (TACK FRAGMENT) & ORGANIC FIBERS.	2.9-3.9	27,000-76,000	60-120	34-50	EXTREMELY AGGRESSIVE
2	-	17-22	100	100	100	100	95-97	36-63	12-20	1	NP	A-2-3	BROWN TO DARK GRAY-BROWN, GRAY TO GRAY BROWN, LIGHT BROWN TO YELLOWISH GRAY-BROWN, REDDISH GRAY-BROWN TO DARK GRAY-BROWN, FINE SAND, OCCASIONALLY WITH TRACE TO FEW CLAY AND FINE ROOTS.	3.3-3.9	32,000-42,000	100	42-57	EXTREMELY AGGRESSIVE
3	-	30	100	99	97	97	64	16	-	-	-	A-3/A-2-4	DARK GRAY-BROWN TO DARK REDDISH BROWN TO DARK BROWN, FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONALLY WITH TRACE TO FEW ORGANIC FIBERS AND CEMENTED SANDS (HARDPAN).	-	-	-	-	-
4	-	16-23	100	100	100	100	77-83	23-30	2	14-20	-	A-2-6	YELLOWISH GRAY-BROWN, LIGHT GRAY-BROWN TO BROWN TO GRAY, BROWN CLAYEY FINE SAND.	-	-	-	-	-

NOTES

1. Station boundaries are approximate and represent soil strata encountered at each boring location only, and do not indicate actual stratum limits.
2. The symbol "P" represents an unmeasured soil parameter.
3. The materials from Strata Nos. 1, 2 and 3 are Select (S) in accordance with Index 505. However, certain types of A-2-4 material are likely to retain excess moisture and may be difficult to dry and compact. They should be used in the embankment above the water table existing at time of construction. A-2-4 material placed below the existing water level must be nonplastic and contain less than 15% passing the No. 200 U.S. Standard Sieve.
4. The materials from Stratum No. 4 shall be treated as Plastic Material (P) in accordance with Index 505.
5. Plastic (P) soils shall be placed above the existing water level at the time of construction to within 4 feet of the proposed base. It should be placed in layers in the lower portion of the embankment for some distance along the project unless the full depth to short distances.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE
FINAL CHECK AFTER GRADING.

WATER TABLE ENCOUNTERED AT TIME OF DRILLING

ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

AASHTO SOIL CLASSIFICATION GROUP SYMBOL AS DETERMINED BY LABORATORY TESTING AND/OR VISUAL EXAMINATION.

AUGER BORING TERMINATION DEPTH

SPT BORING TERMINATION DEPTH

STANDARD PENETRATION RESISTANCE IN BLOWS PER FOOT

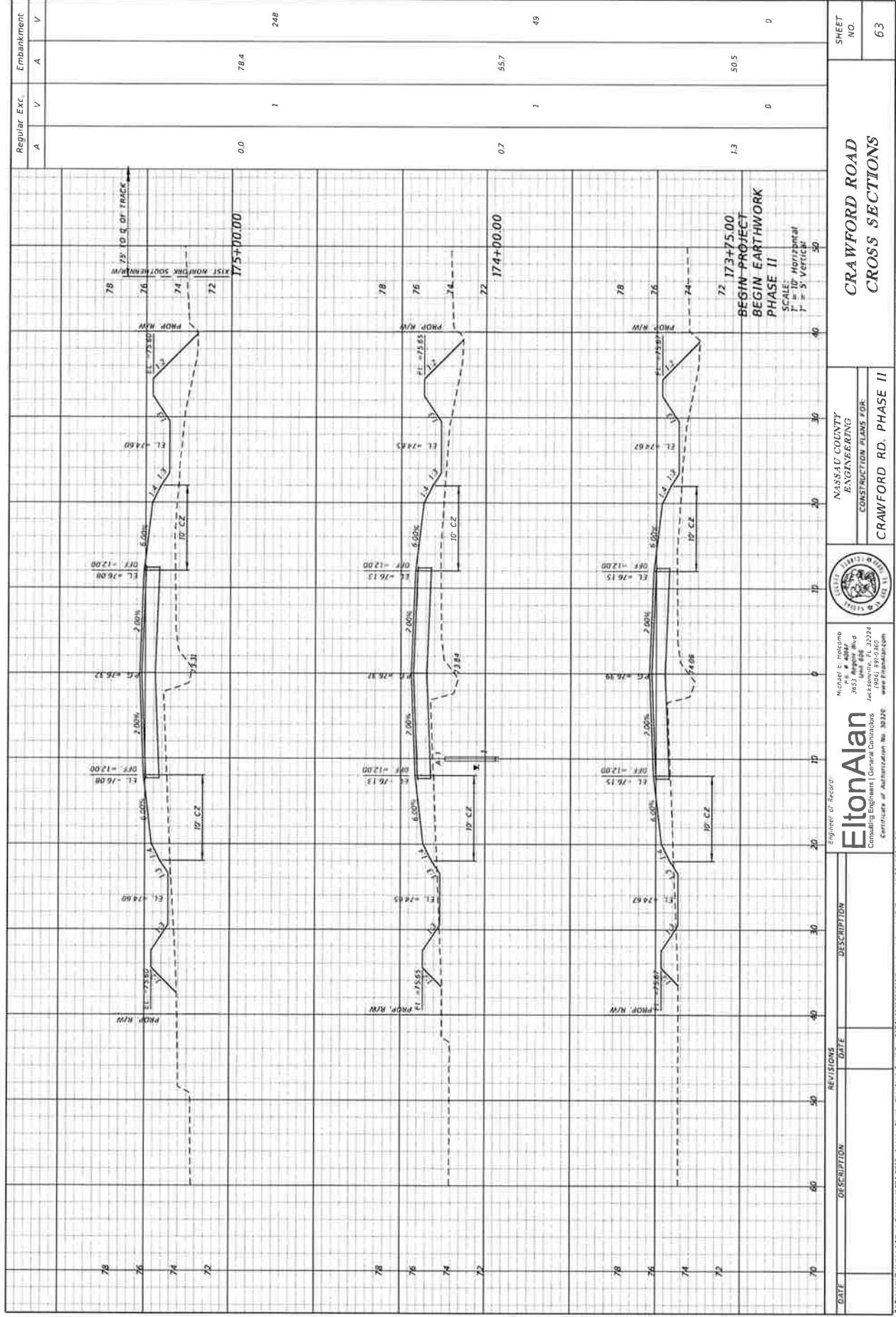
INDICATES 30 HAMMER BLOWS DRIVE SPT11 SPOON SAMPLER 5 INCHES

SPT TABLE: RELATIVE DENSITY & CONSISTENCY

CONSISTENCY (FINE-GRAINED SOILS)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1 - 3
FIRM	4 - 6
STIFF	7 - 12
VERY STIFF	13 - 24
HARD	GREATER THAN 24
RELATIVE DENSITY (COARSE-GRAINED SOILS)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3 - 10
MEDIUM DENSE	10 - 24
DENSE	25 - 40
VERY DENSE	GREATER THAN 40

NOTE: ALL OFFSETS REFERENCED TO CRAWFORD ROAD CENTERLINE OF CONSTRUCTION PROVIDED BY PROJECT SURVEYOR

REVISIONS		PROPOSED IMPROVEMENTS FOR CRAWFORD ROAD		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	
			PROPOSED IMPROVEMENTS FOR CRAWFORD ROAD NASSAU COUNTY, FLORIDA	62



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION	REGULAR EXC.	EMBANKMENT	SHEET NO.
					A	A	63
					V	V	

NASSAU COUNTY
 ENGINEERING
 CONSTRUCTION PLANS FOR
 CRAWFORD RD. PHASE II

Michael S. Holcomb
 3853 Regency Blvd
 Jacksonville, FL 32224
 (904) 991-0360
 www.EltonAlan.com
 Certificate of Authorization No. 30330

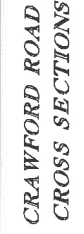


EltonAlan
 Consulting Engineers | General Contractors
 Certificate of Authorization No. 30330

PROJECT DIVERT/PAVEMENT CONTRACT 0012 - BULKHEAD EMBANKMENT - CRAWFORD ROAD PHASE II, NASSAU COUNTY, FLORIDA
 3/11/2020 3:22 PM

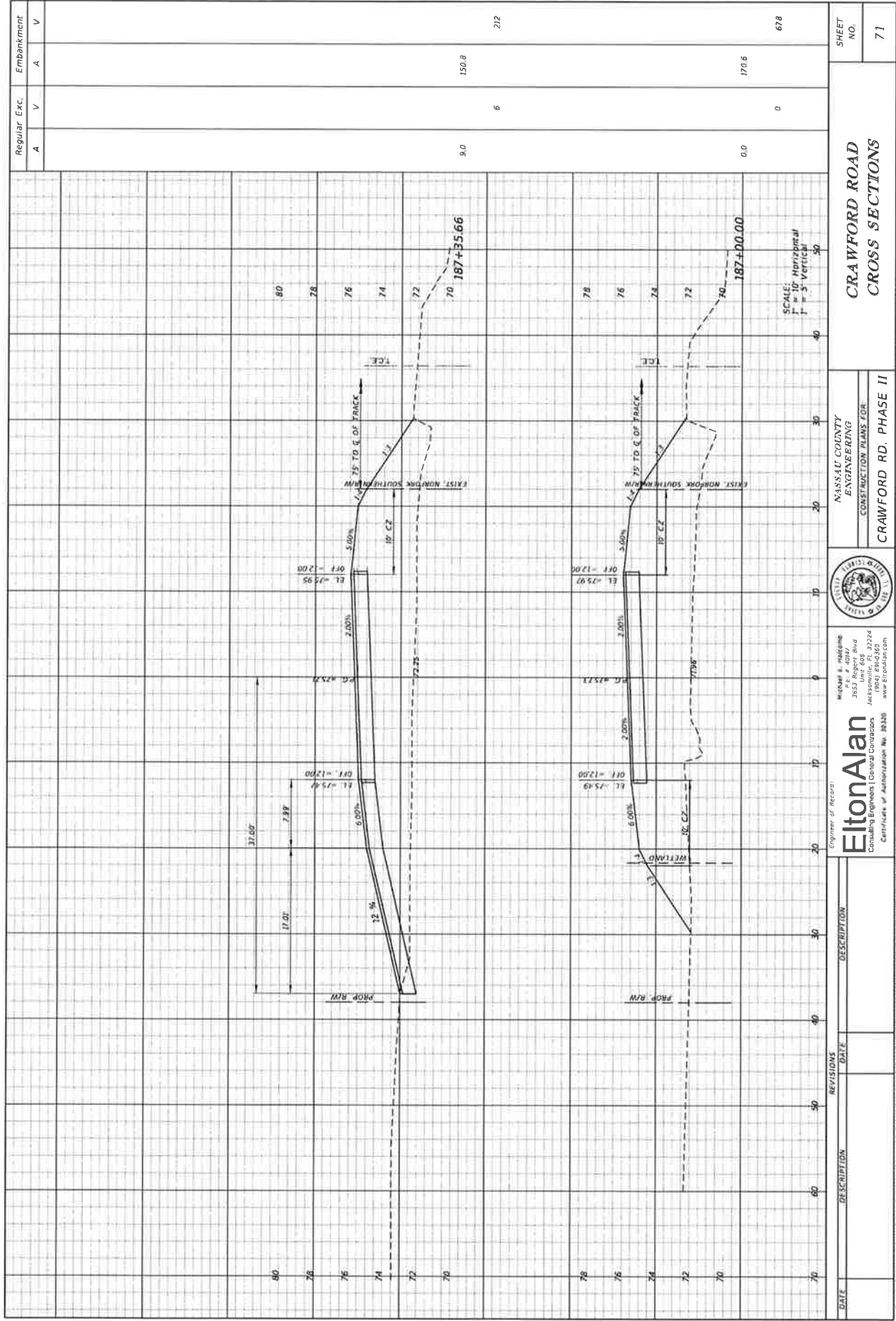
Approved DirectoryActive CentricUS08-0012-Article County Criminal Justice Agency - Spring 2019 Active Inmate Room 22A

10222 • J. Neurosci., July 26, 2006 • 26(30):10215–10222

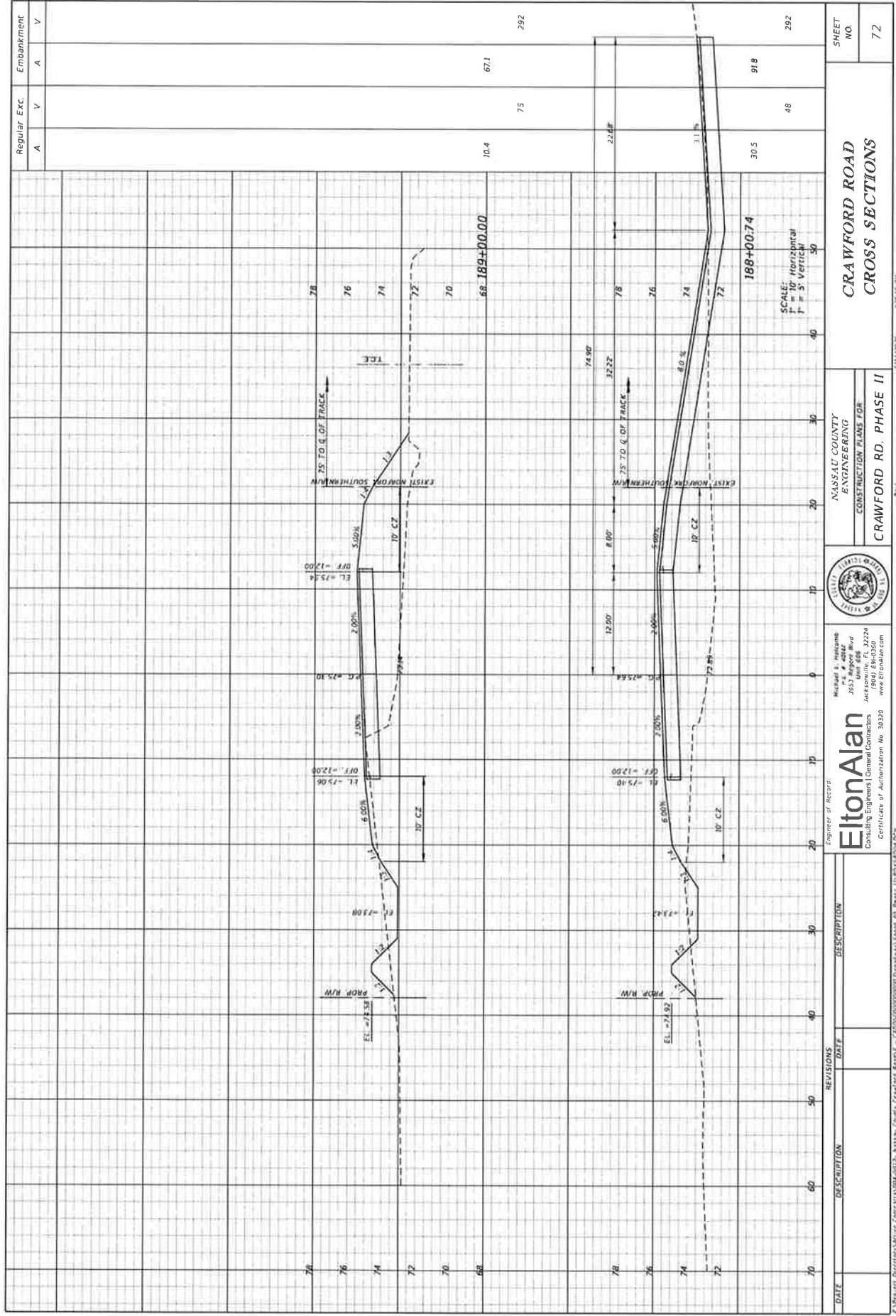


[illegible]

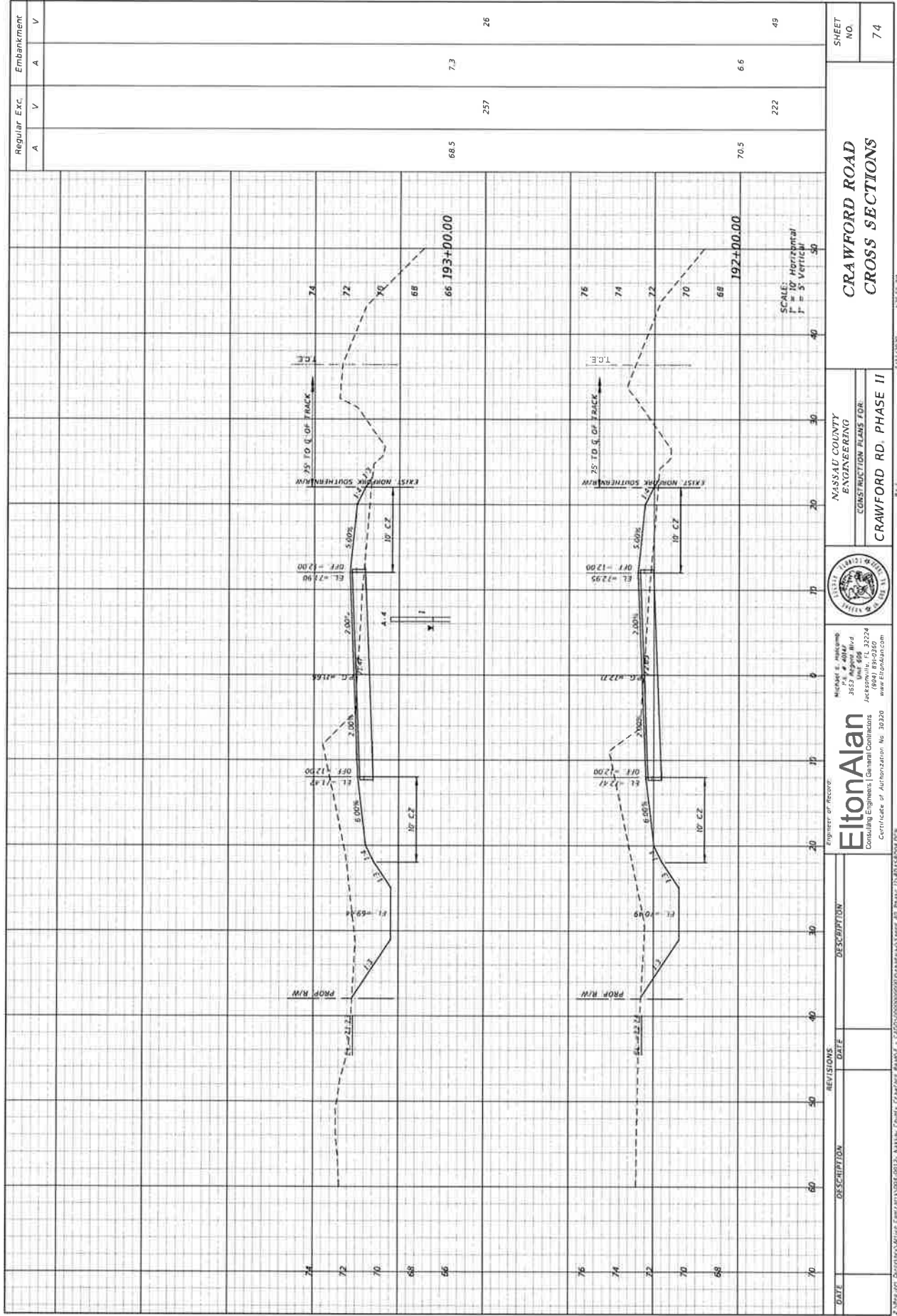
© 2006 Blackwell Publishing Ltd, *Journal of Internal Medicine* 260: 395–403



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.



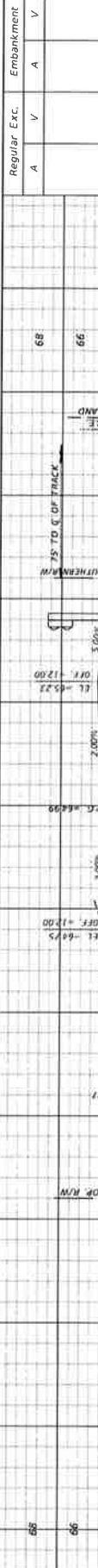
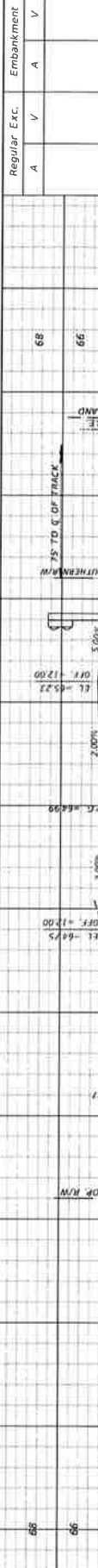
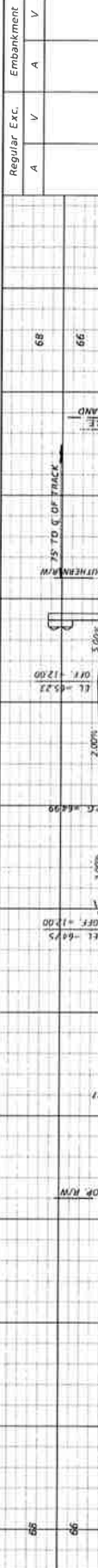
2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775-2776-2777-2778-2779-2780-2781-2782-2783-2784-2785-2786-2787-2788-2789-2790-2791-2792-2793-2794-2795-2796-2797-2798-2799-2800-2801-2802-2803-2804-2805-2806-2807-2808-2809-2810-2811-2812-2813-2814-2815-2816-2817-2818-2819-2820-2821-2822-2823-2824-2825-2826-2827-2828-2829-2830-2831-2832-2833-2834-2835



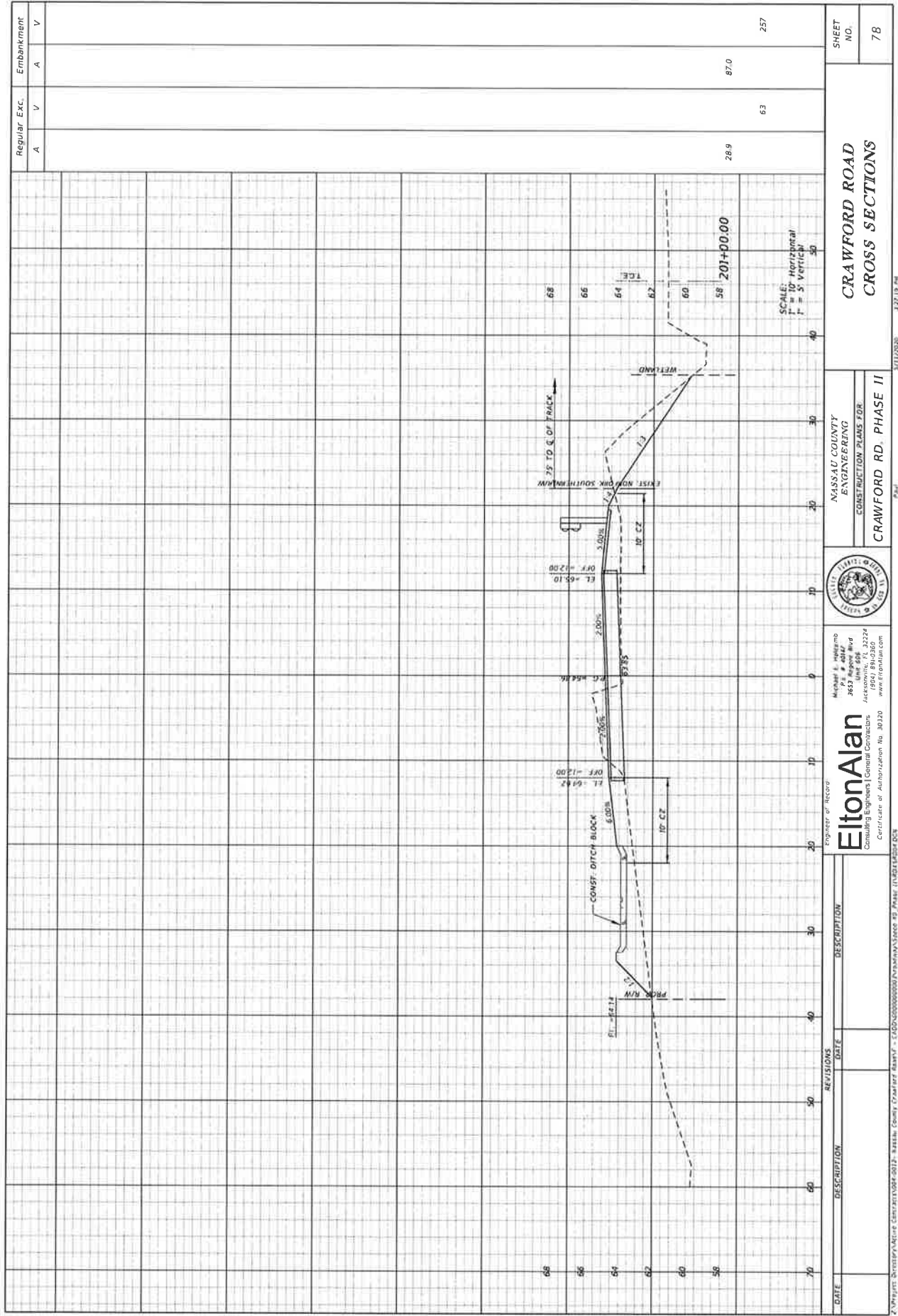
[illegible]



DATE		DESCRIPTION	REVISIONS	DATE	DESCRIPTION	ENGINEER OF RECORD	Michael E. Holcomb P.E. # 12586 3555 Highway 90 West Unit 100 Jacksonville, FL 32224 904.746.1100 www.EltonAlan.com		NASSAU COUNTY ENGINEERING CONSTRUCTION PLANS FOR CRAWFORD RD., PHASE II	CRAWFORD ROAD CROSS SECTIONS	SHEET NO.
											77

68	66	64	62	60	75 TO C OF TRACK		4.9 71	51.6 154	Regular Exc. A	V A	Embankment V
68	66	64	62	60	75 TO C OF TRACK		33.3 134	31.6 103	Regular Exc. A	V A	Embankment V
70	68	66	64	62	75 TO C OF TRACK		39.0 153	23.8 77	Regular Exc. A	V A	Embankment V

SCALE: 1" = 5' VERTICAL
1" = 5' HORIZONTAL



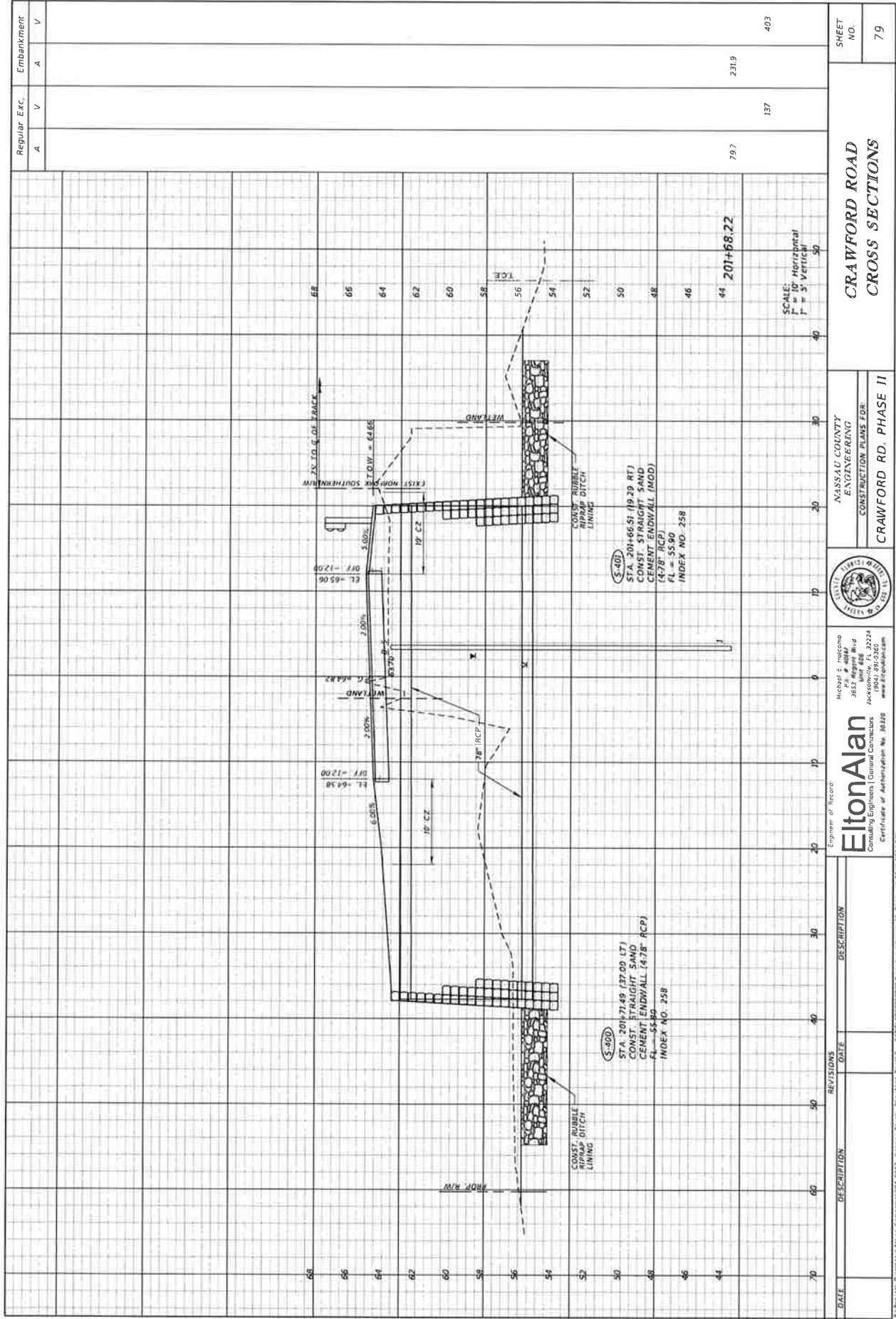
Elton Alan
 Professional Engineer
 3853 Ridge Blvd
 Jacksonville, FL 32224
 (904) 891-2360
 www.EltonAlan.com

DATE	DESCRIPTION	REVISIONS

SHEET NO.
 78

CRAWFORD ROAD
 CROSS SECTIONS

NASSAU COUNTY
 ENGINEERING
 CONSTRUCTION PLANS FOR
 CRAWFORD RD. PHASE II



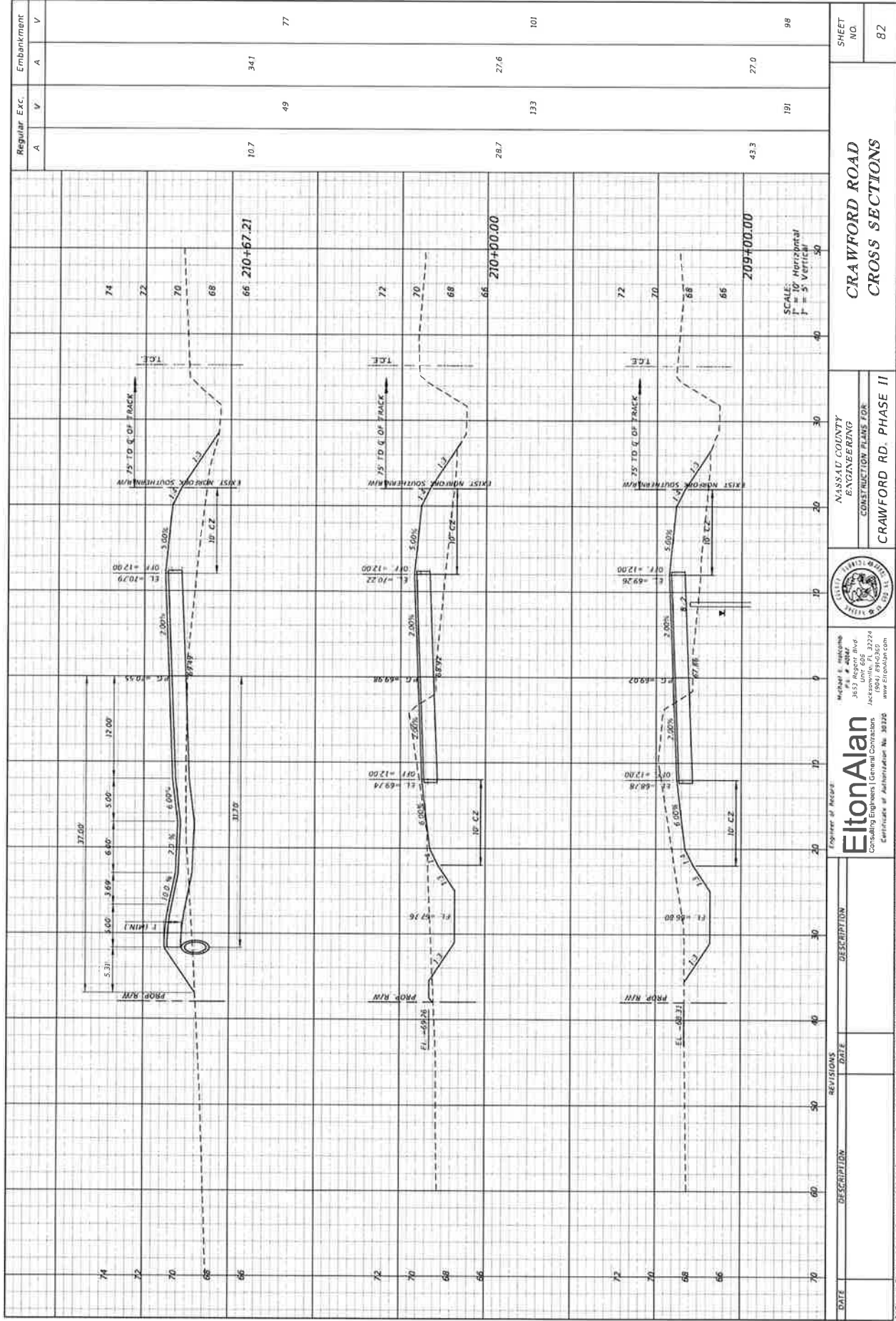
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.

The figure consists of three cross-section diagrams of Crawford Road, oriented vertically. Each diagram shows the proposed right-of-way (PROP. R/W) and existing right-of-way (EXIST. R/W) lines, with elevations and stationing marked. The diagrams are for stations 208+00.00, 207+00.00, and 206+00.00.

Diagram 1 (Top): Station 208+00.00. The diagram shows the proposed right-of-way (PROP. R/W) and existing right-of-way (EXIST. R/W) lines. The elevation of the existing right-of-way is 68.00. The elevation of the proposed right-of-way is 65.70. The stationing is 208+00.00.

Diagram 2 (Middle): Station 207+00.00. The diagram shows the proposed right-of-way (PROP. R/W) and existing right-of-way (EXIST. R/W) lines. The elevation of the existing right-of-way is 68.00. The elevation of the proposed right-of-way is 65.70. The stationing is 207+00.00.

Diagram 3 (Bottom): Station 206+00.00. The diagram shows the proposed right-of-way (PROP. R/W) and existing right-of-way (EXIST. R/W) lines. The elevation of the existing right-of-way is 68.00. The elevation of the proposed right-of-way is 65.70. The stationing is 206+00.00.



Elton Alan
 Engineer of Record
 3835 Rogers Blvd.
 Jacksonville, FL 32224
 (904) 999-8900
 www.EltonAlan.com
 Certificate of Authorization No. 38325

DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION

FLORIDA
 NASSAU COUNTY
 ENGINEERING
 CONSTRUCTION PLANS FOR
 CRAWFORD RD. PHASE II

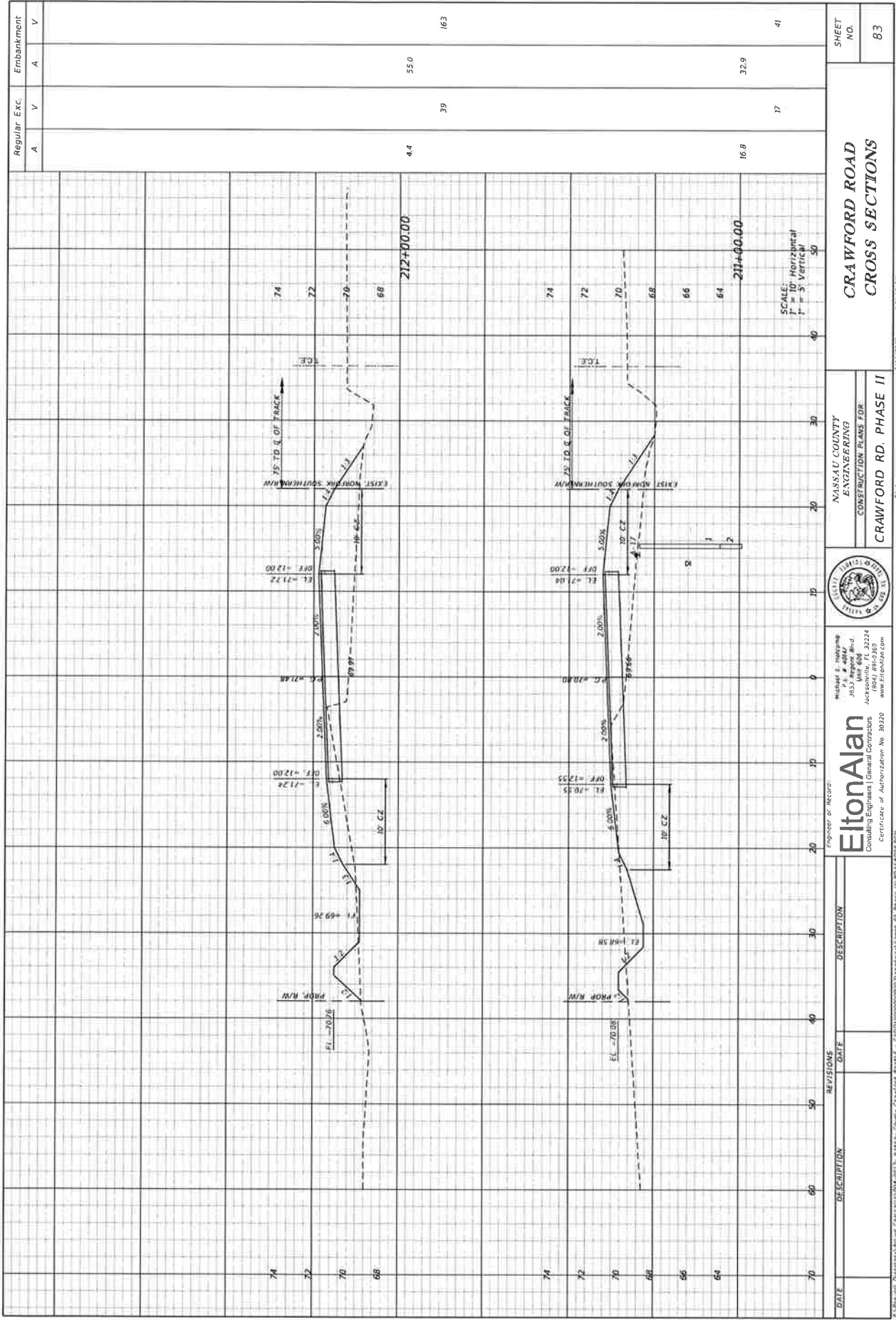
**CRAWFORD ROAD
 CROSS SECTIONS**

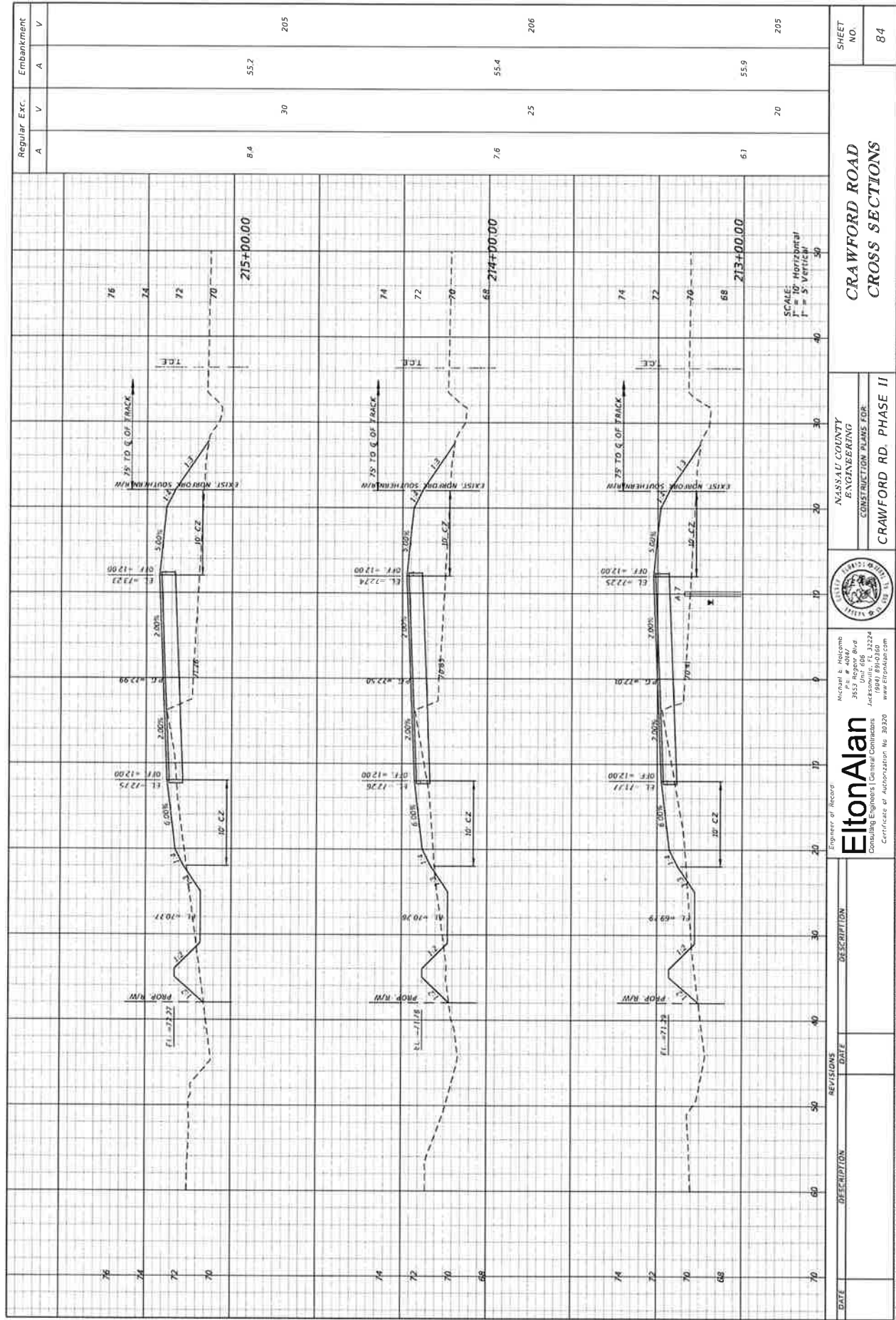
SHEET
 NO.
 82

Copyright Reserved. All Rights Reserved. No part of this document may be reproduced without written permission from the author.

5/11/2020 2:28:50 PM

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.





--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

