

CONTRACT PLANS COMPONENTS

ROADWAY PLANS  
SIGNING AND PAVEMENT MARKING PLANS  
LIGHTING PLANS

LEE COUNTY  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

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GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2020-21 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

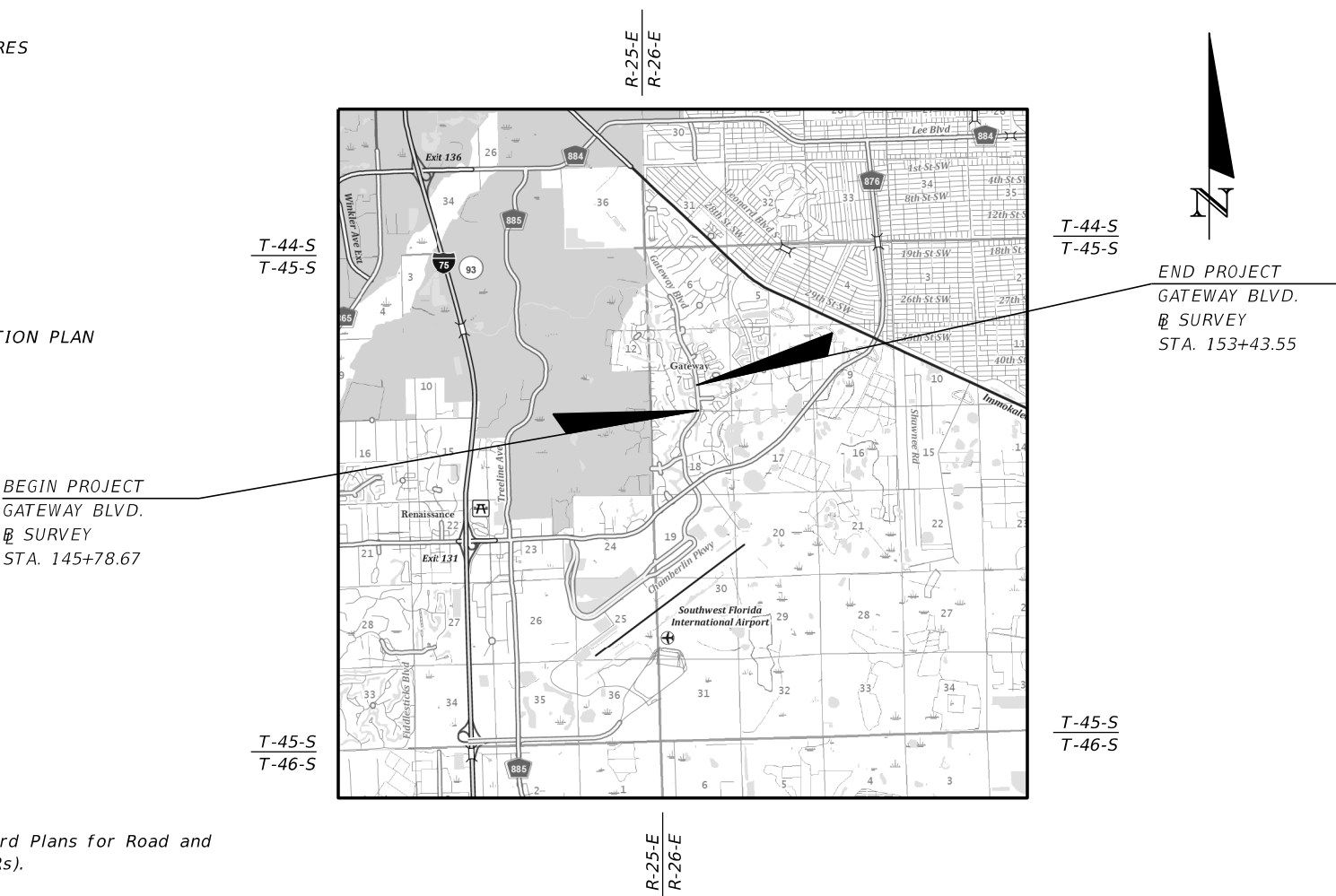
Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: N/A

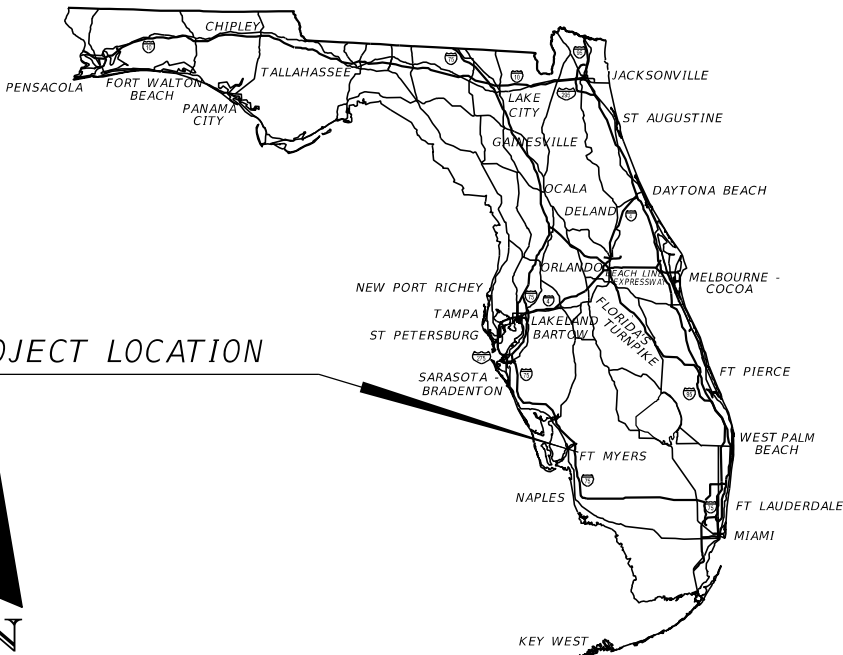
GOVERNING STANDARD SPECIFICATIONS:

Lee County Department of Transportation Specifications, and Florida Department of Transportation, JULY2020 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

GATEWAY BOULEVARD AT GRIFFIN DRIVE  
INTERSECTION CONTROL (ROUNDAABOUT)  
LEE COUNTY PROJECT NO. 200672



PROJECT LOCATION



100% PLANS  
JANUARY 2021  
(NOT FOR CONSTRUCTION)

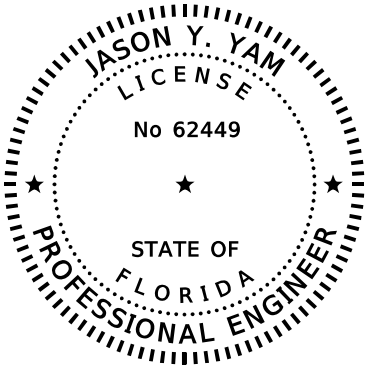
ROADWAY PLANS  
ENGINEER OF RECORD:

JASON Y. YAM, P.E.  
P.E. NO.: 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FL 33759  
(727) 531-3505  
CERTIFICATE OF AUTHORIZATION NO.: 29915

COUNTY PROJECT MANAGER:

Alejandro J. Slaibe, P.E.

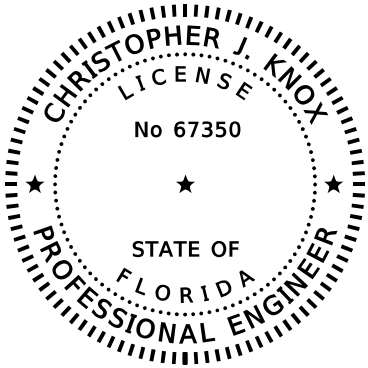
CIP NO.	FISCAL YEAR	SHEET NO.
200672	22	1



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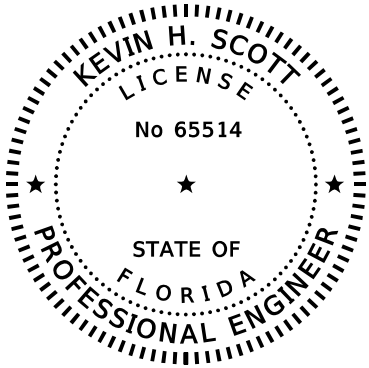
CARDNO  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FL 33759  
PHONE NUMBER: (727) 531-3505  
CERTIFICATE OF AUTHORIZATION NO. 29915  
JASON Y. YAM, P.E. 62449



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380 PARK PLACE BOULEVARD, SUITE 300  
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PHONE NUMBER: (727) 531-3505  
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CHRISTOPHER J. KNOX, P.E. 67350



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TIERRA  
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TAMPA, FL 33637  
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CERTIFICATE OF AUTHORIZATION NO. 6486  
KEVIN H. SCOTT, P.E. 65514

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.                      SHEET DESCRIPTION

1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
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SHEET NO.                      SHEET DESCRIPTION

2	SIGNATURE SHEET
10	SUMMARY OF DRAINAGE STRUCTURES
27-30	DRAINAGE STRUCTURES
50-52	STORMWATER POLLUTION PREVENTION PLAN
53-56	EROSION CONTROL

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FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.                      SHEET DESCRIPTION

2	SIGNATURE SHEET
31	ROADWAY SOIL SURVEY


REVISIONS					GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		SIGNATURE SHEET		200672	2
			JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	Wayne.Ponder	1/19/2021 11:53:49 AM J:\CR044\CR044002.02\ms\roadway\SIGNRD01.DGN			

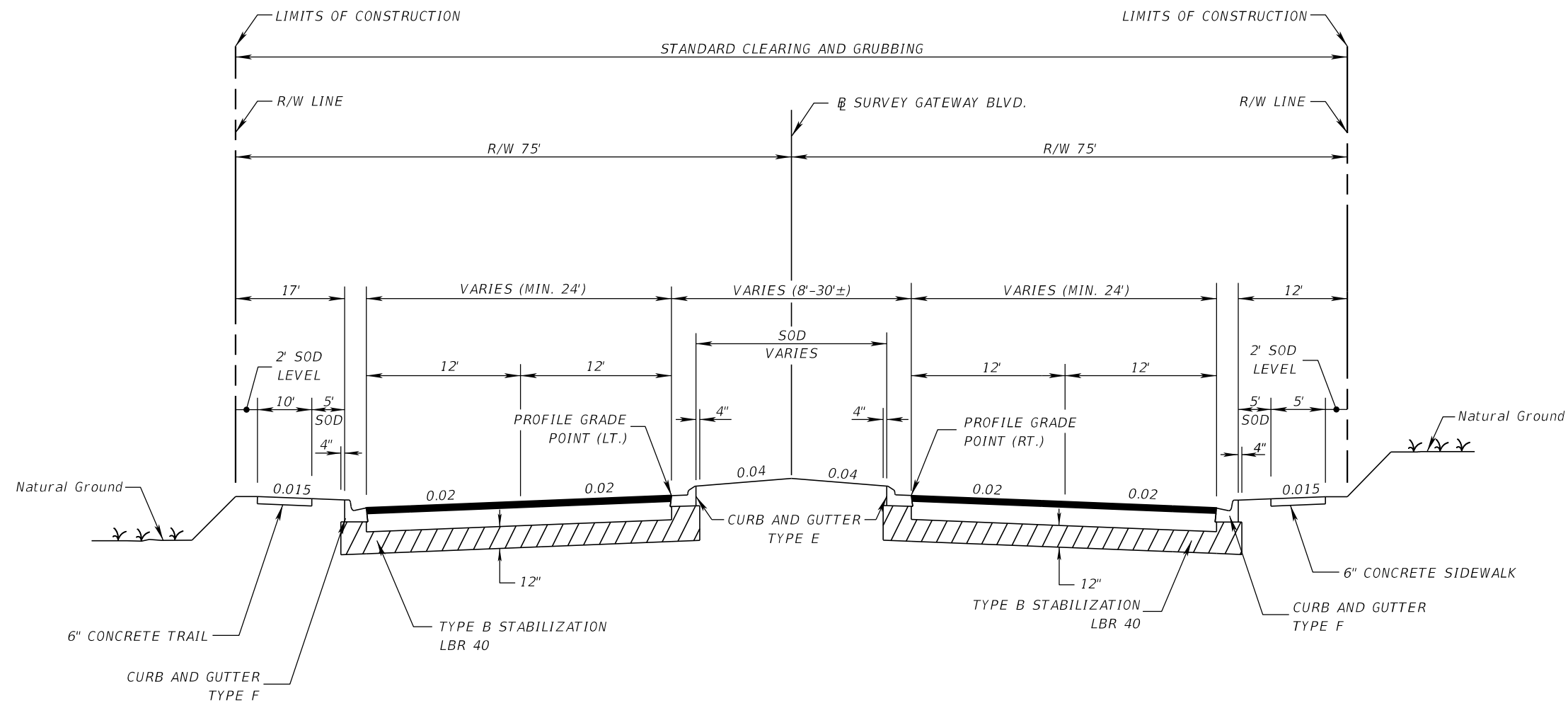
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SUMMARY OF ROADWAY				
PAY ITEM	DESCRIPTION	UNITS	QTY	
0101-1	MOBILIZATION	LS	1	
0102-1	MAINTENANCE OF TRAFFIC	LS/DA	365	
0104-10-3	SEDIMENT BARRIER	LF	4636	
0104-12	STAKED TURBIDITY BARRIER - NYLON REINFORCED PVC	LF	41	
0104-15	SOIL TRACKING PREVENTION DEVICE	EA	4	
0104-18	INLET PROTECTION SYSTEM	EA	16	
0107-1	LITTER REMOVAL	AC	21	
0107-2	MOWING	AC	29	
0110- 1- 1	CLEARING & GRUBBING (Includes ***Root Barrier)	LS/AC	1	
0110-4-10	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY	998	
0110-7-1	MAILBOX, SINGLE, F&I	EA	1	
0120-1	REGULAR EXCAVATION	CY	1243	
0120-6	EMBANKMENT	CY	1632	
0160-4	TYPE B STABILIZATION	SY	7780	
0285-709	OPTIONAL BASE GROUP 9	SY	5321	
0327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	8604	
0334-1-13	SUPERPAVE ASPHALT CONC, TRAFFIC LEVEL C (2.5")	TN	716.1	
0337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG76-22	TN	473.3	
0350-30-13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	SY	207	
0425-1-361	INLETS, CURB, TYPE P-6, < 10'	EA	1	
0425-1-521	INLETS, DITCH BOTTOM, TYPE C, <10'	EA	3	
0425-1-523	INLETS, DITCH BOTTOM, TYPE C, J-BOT <10'	EA	1	
0425-1-910	INLETS, CLOSED FLUME	EA	3	
0430-175-118	PIPE CULVERT, CONCRETE, ROUND 18" ID	LF	377	
0430-175-124	PIPE CULVERT, CONCRETE, ROUND 24" ID	LF	257	
0430-175-130	PIPE CULVERT, CONCRETE, ROUND 30" ID	LF	4	
0430-982-625	MITERED END SECTION, CROSS DRAIN, 12"x18" ERCP	EA	5	
0457-1-12	STANDARD INTEGRAL PILE JACKET, NON-STRUCTURAL, 16.1 TO 30"	EA	2	
0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF	2058	
0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	2458	
0520-2-4	CONCRETE CURB, TYPE D	LF	206	
0520-2-8	CONCRETE CURB, TYPE RA	LF	278	
0522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	2020	
0524-1-1	CONCRETE DITCH PAVT, NR, 3"	SY	13	
0527-2	DETECTABLE WARNINGS	SF	280	
0570-1-2	PERFORMANCE TURF, SOD	SY	9006	
0919-528	DIRECTIONAL INDICATORS	SF	191	
***	ROOT BARRIER	LF	4249	

SUMMARY OF SIGNING AND PAVEMENT MARKINGS				
PAY ITEM	DESCRIPTION	UNITS	QTY	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	2	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	920	
635-2-11	PULL & SPLICE BOX - LCDOT PULL BOX, 17" X 30" COVER SIZE	EA	8	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1	
641-2-212	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE (12')	EA	1	
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS	14	
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS	1	
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	25	
700-1-60	SINGLE POST SIGN, REMOVE	AS	2	
700-2-11	MULTI POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	4	
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	53	
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1	
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	582	
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM	0.013	
711-11-144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED GUIDELINE, 12" FOR ROUNDABOUT	GM	0.039	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	90	
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 6-10 DOTTED EXTENSION LINE, 6"	GM	0.047	
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	340	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	340	
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	6	
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	13	
711-16-101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM	0.530	
711-16-102	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 8"	GM	0.241	
711-16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM	0.062	
711-16-201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.378	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 - 6	LF	3135	

SUMMARY OF LIGHTING				
PAY ITEM	DESCRIPTION	UNITS	QTY	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	215	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	2570	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	13	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE (12')	AS	2	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO 8 TO NO 6	LF	10949	
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	3993	
715-4-12	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT	EA	19	
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	8	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	19	

REVISIONS				<div>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759</div>	<div><div>Lee County Southwest Florida</div><div>DEPARTMENT OF TRANSPORTATION</div></div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF PAY ITEMS	200672	3



**TYPICAL SECTION (1)**

**GATEWAY BLVD.**


STA. 145+78.67 TO STA. 148+69.12 (RT.)  
 STA. 146+74.57 TO STA. 148+70.09 (LT.)  
 STA. 149+96.13 TO STA. 153+24.05 (RT.)  
 STA. 149+97.20 TO STA. 153+43.55 (LT.)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 23,100  
 ESTIMATED OPENING YEAR = 2021 AADT = 19,000  
 ESTIMATED DESIGN YEAR = 2041 AADT = 25,136  
 DESIGN HOUR T = 3.4%  
 DESIGN SPEED = 35 MPH

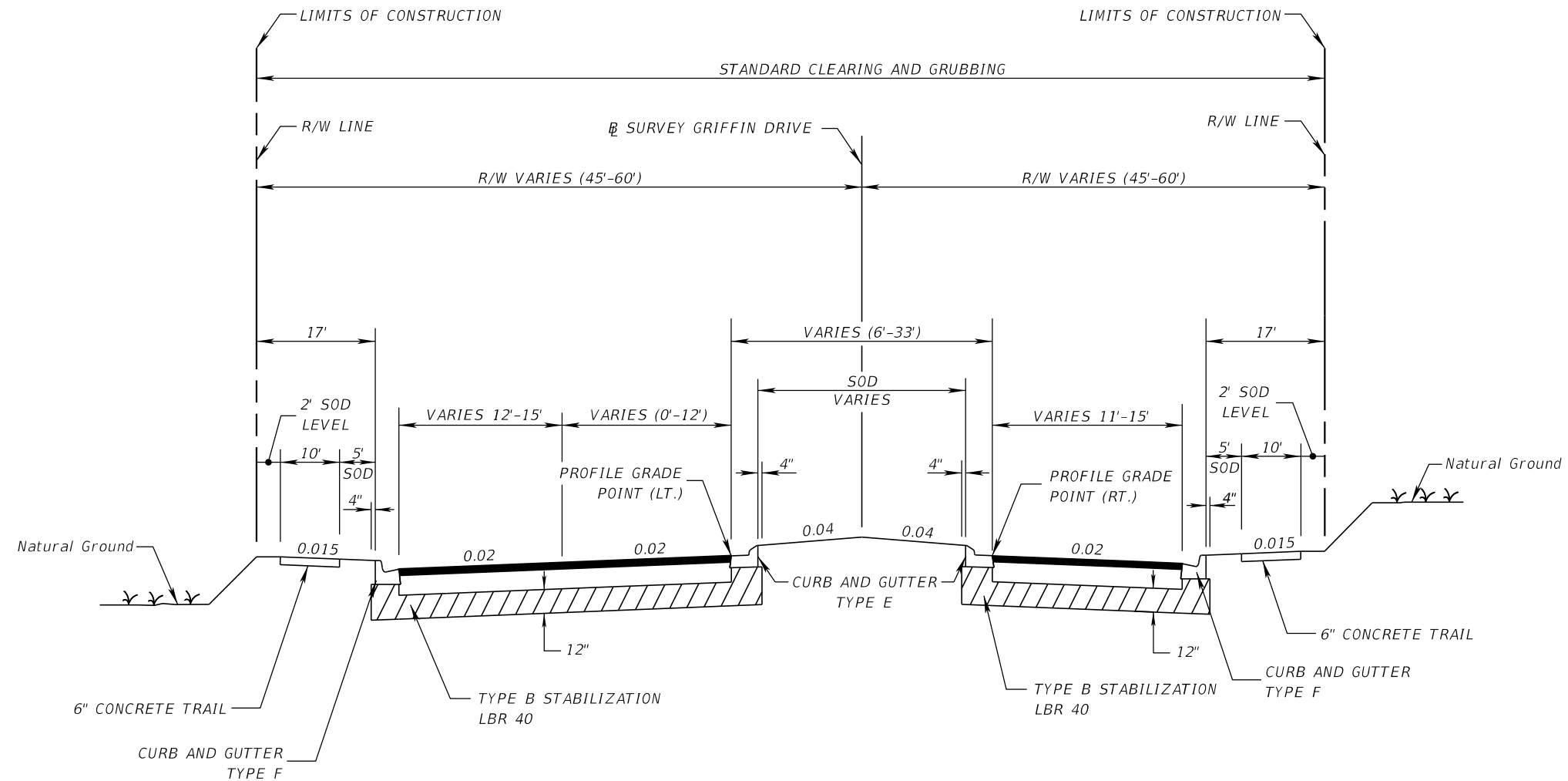
**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
 AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (1)	200672	4

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TYPICAL SECTION (2)

GRIFFIN DRIVE

STA. 317+88.90 TO STA. 322+86.05 (LT.)

STA. 317+88.94 TO STA. 321+35.18 (RT.)

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

STA. 317+94.29 TO STA. 328+87.98 (LT.)

MILLING AND RESURFACING


MILL (1")  
OVERBUILD (SEE TABLE)\*  
AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

STA. 318+08.28 TO STA. 319+55.02 (LT.)

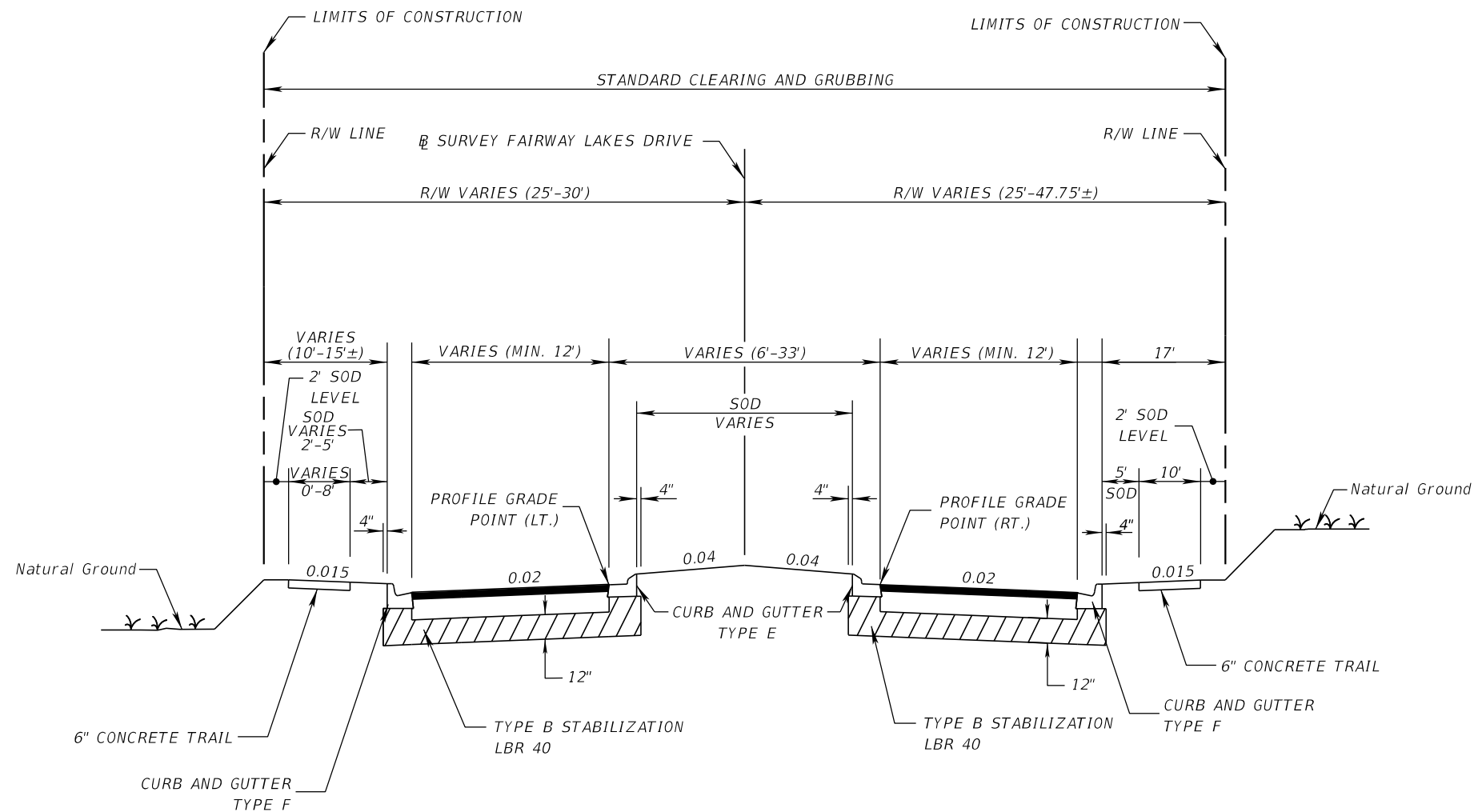
WIDENING

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

DESIGN SPEED = 35 MPH \* SEE TYPICAL SECTION DETAIL SHEET

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (2)	200672	5

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**TYPICAL SECTION (3)**  
**FAIRWAY LAKES DRIVE**

STA. 314+42.89 TO STA. 315+80.00 (LT.)  
STA. 314+42.89 TO STA. 315+08.66 (RT.)  
**MILLING AND RESURFACING**

MILL (1")  
OVERBUILD (SEE TABLE)\*  
AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)


STA. 315+80.00 TO STA. 316+35.09 (LT.)  
STA. 315+08.66 TO STA. 316+36.79 (RT.)  
**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

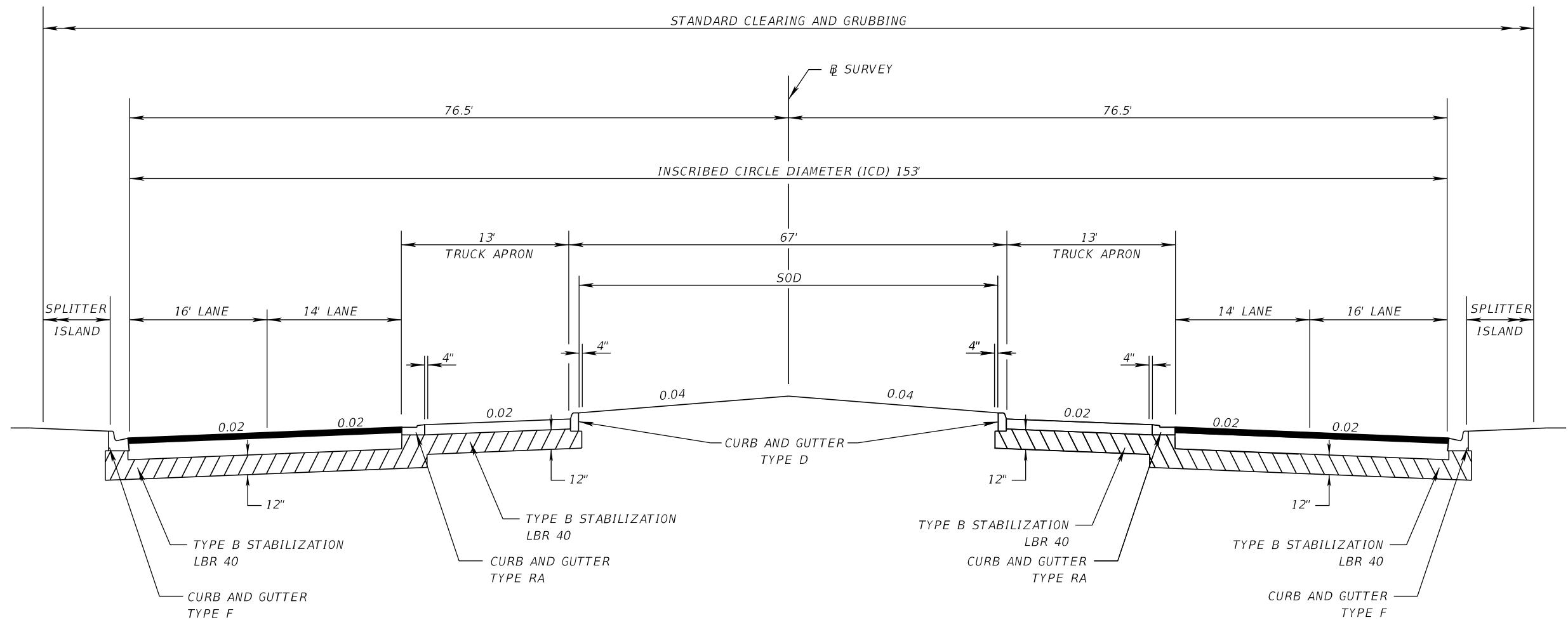
STA. 314+42.89 TO STA. 315+63+15 (LT.)  
STA. 314+58.93 TO STA. 315+06.92 (RT.)  
**WIDENING**

OPTIONAL BASE GROUP 9 (TYPE B-12.5 ONLY) WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

DESIGN SPEED = 25 MPH      \* SEE TYPICAL SECTION DETAIL SHEET

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (3)	200672	6

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**TYPICAL SECTION (4)**  
**GATEWAY BLVD. ROUNDABOUT**  
**STA. 148+70.09 TO 149+97.20**

**NEW CONSTRUCTION**


OPTIONAL BASE GROUP 9 (B-12.5 ONLY) WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
 AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

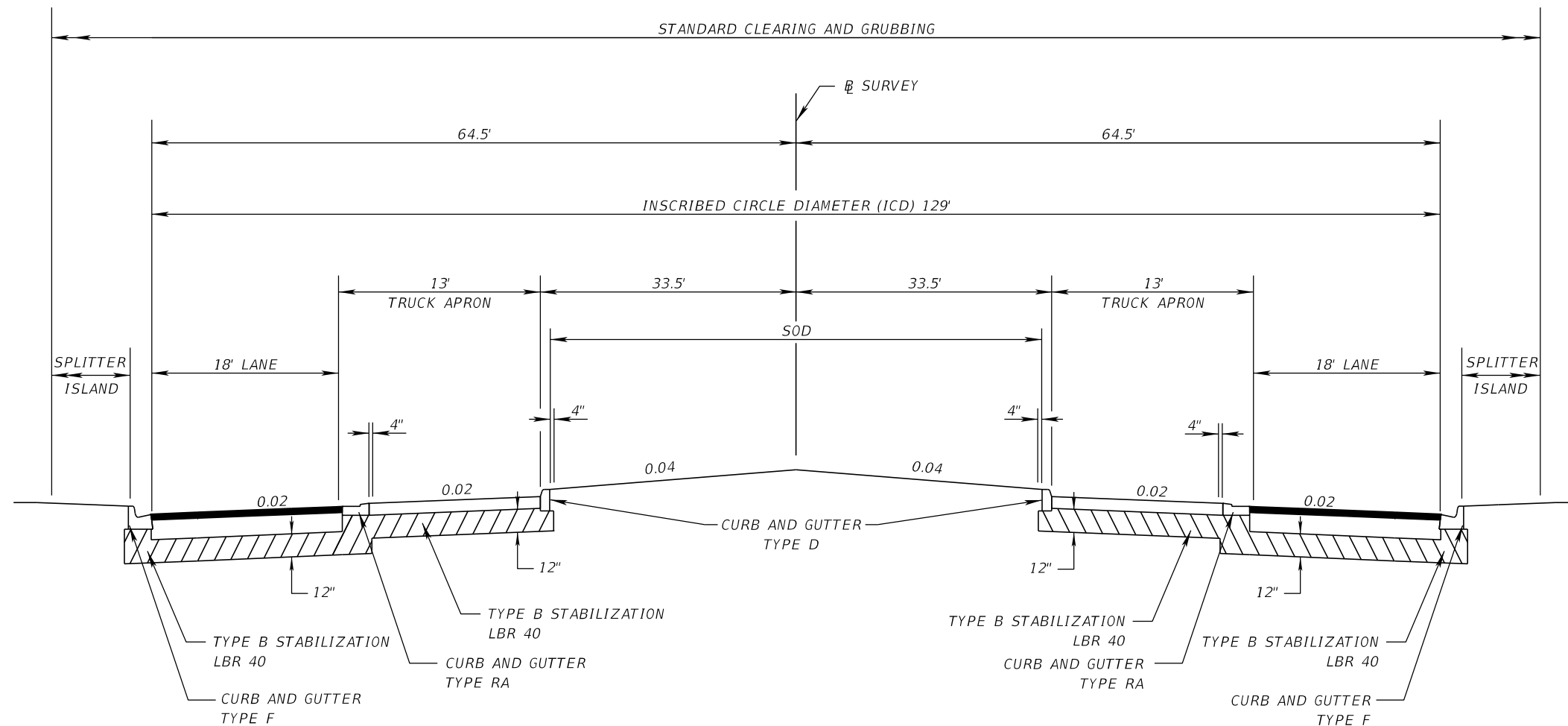
**TRUCK APRON**

CONCRETE PAVEMENT (12")  
 (AMS-STD-595-21105 RED)

**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 23,100  
 ESTIMATED OPENING YEAR = 2021 AADT = 19,000  
 ESTIMATED DESIGN YEAR = 2041 AADT = 25,136  
 DESIGN HOUR T = 3.4%  
 DESIGN SPEED = 35 MPH

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (4)	200672	7




**TYPICAL SECTION (5)**  
**GRIFFIN DR. AND FAIRWAY LAKES DR. ROUNDABOUT**  
**STA. 316+36.79 TO 317+88.94**

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 (B-12.5 ONLY) WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")  
 AND FRICTION COURSE FC-9.5 (TRAFFIC C) (1") (PG 76-22)

**TRUCK APRON**

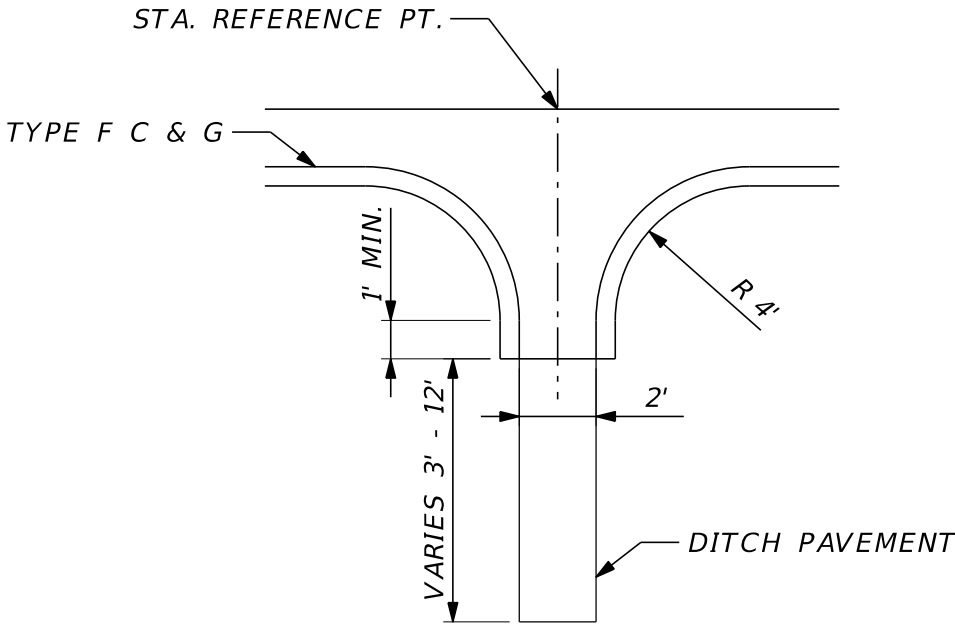
CONCRETE PAVEMENT (12")  
 (AMS-STD-595-21105 RED)

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION (5)	200672	8

SUMMARY OF ASPHALT OVERBUILD FAIRWAY LAKES DR							
LOCATION		EXIST CROSS SLOPE	PROPOSED SLOPE	MAX DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	LENGTH OF OVERBUILD (FT)	TYPE SP (TRAFFIC C) OVERBUILD (TN)
STATION	LANE						
315+00	WB	0.011	0.020	0.00	0	-	-
315+50	WB	0.008	0.020	0.28	12	50.00	1.01
315+80.00	WB	0.006	0.020	0.00	0	30.00	0.15
TOTAL OVERBUILD FAIRWAY LAKES DR							1.16


SUMMARY OF ASPHALT OVERBUILD GRIFFIN DR							
LOCATION		EXIST CROSS SLOPE	PROPOSED SLOPE	MAX DEPTH OF OVERBUILD (IN)	WIDTH OF OVERBUILD (FT)	LENGTH OF OVERBUILD (FT)	TYPE SP (TRAFFIC C) OVERBUILD (TN)
STATION	LANE						
317+90	WB	0.011	0.020	0.00	-	-	-
318+00	WB	0.005	0.020	0.53	12.3	10.00	0.40
318+50	WB	0.012	0.020	0.54	9.4	50.00	1.55
319+00	WB	0.012	0.020	0.73	11.5	50.00	2.57
319+50	WB	0.012	0.020	0.89	11	50.00	2.99
320+00	WB	0.012	0.020	0.94	25.4	50.00	7.30
320+50	WB	0.012	0.020	1.24	29	50.00	10.99
321+00	WB	0.012	0.020	0.90	28.4	50.00	7.81
321+50	WB	0.012	0.020	0.65	29.5	50.00	5.86
322+00	WB	0.012	0.020	0.30	29.5	50.00	2.70
322+50	WB	-0.007	0.020	0.05	9.2	50.00	0.14
322+86	WB	0.005	0.020	0.00	0	36.00	0.03
TOTAL OVERBUILD GRIFFIN DR							42.33

OVERBUILD TABLES



CONCRETE OPEN FLUME DETAIL

GATEWAY BLVD.  
STA. 151+80.00 LT.  
GRIFFIN BLVD.  
STA. 319+30.00 LT.  
STA. 321+50.00 LT.

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TYPICAL SECTION DETAILS		200672	9

QTY.	STRUCT. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM SEWER PIPE				DITCH BOTTOM INLETS		FLUMES	JACKET	REMARKS
						OTHER			P-6	C	C (J-BOT)	CLOSED	16" - 30"	
						18"	24"	30"	<10	<10	<10			
GATEWAY BOULEVARD														
P	S-99	145+86	RT	CLOSED FLUME	1							1		DITCH PAVEMENT QUANTITY IN ROADWAY ITEMS
F														
P	S-100	148+01	RT	CLOSED FLUME	1							1		DITCH PAVEMENT QUANTITY IN ROADWAY ITEMS
F														
P	S-101	148+00	LT	DBI & PIPE	1	54				1				
F														
P	S-102	148+54	LT	CURB INLET	1	225			1					
F														
P	S-103	150+80	LT	DBI & PIPE	1	98				1				
F														
P	S-104	151+80	LT	DBI & PIPE	1		253			1				
F														
P	S-105	154+26	LT	DBI & PIPE	1		4	4			1		2	ONE 24", ONE 30" JACKET
F														
GRIFFIN DRIVE														
P	S-300	320+00	RT	CLOSED FLUME	1							1		DITCH PAVEMENT QUANTITY IN ROADWAY ITEMS
F														
SHEET TOTALS				PLAN QUANTITY		377	257	4	1	3	1	3	2	
				FINAL QUANTITY										

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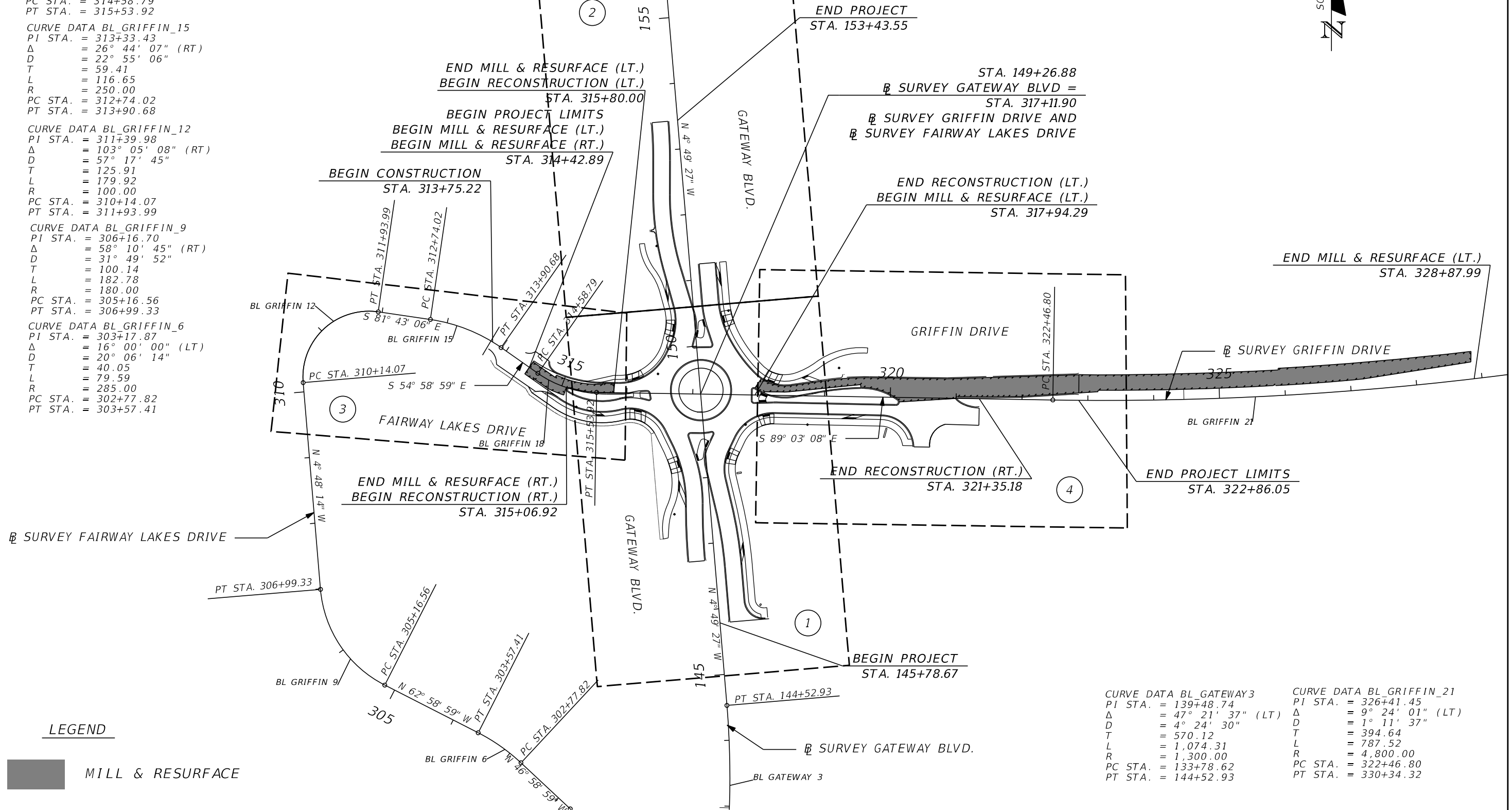
CURVE DATA BL\_GRIFFIN\_18  
PI STA. = 315+07.81  
Δ = 34° 04' 09" (LT)  
D = 35° 48' 36"  
T = 49.02  
L = 95.14  
R = 160.00  
PC STA. = 314+58.79  
PT STA. = 315+53.92

CURVE DATA BL\_GRIFFIN\_15  
PI STA. = 313+33.43  
Δ = 26° 44' 07" (RT)  
D = 22° 55' 06"  
T = 59.41  
L = 116.65  
R = 250.00  
PC STA. = 312+74.02  
PT STA. = 313+90.68

CURVE DATA BL\_GRIFFIN\_12  
PI STA. = 311+39.98  
Δ = 103° 05' 08" (RT)  
D = 57° 17' 45"  
T = 125.91  
L = 179.92  
R = 100.00  
PC STA. = 310+14.07  
PT STA. = 311+93.99

CURVE DATA BL\_GRIFFIN\_9  
PI STA. = 306+16.70  
Δ = 58° 10' 45" (RT)  
D = 31° 49' 52"  
T = 100.14  
L = 182.78  
R = 180.00  
PC STA. = 305+16.56  
PT STA. = 306+99.33

CURVE DATA BL\_GRIFFIN\_6  
PI STA. = 303+17.87  
Δ = 16° 00' 00" (LT)  
D = 20° 06' 14"  
T = 40.05  
L = 79.59  
R = 285.00  
PC STA. = 302+77.82  
PT STA. = 303+57.41




#### LEGEND

MILL & RESURFACE

CURVE DATA BL\_GATEWAY3  
PI STA. = 139+48.74  
Δ = 47° 21' 37" (LT)  
D = 4° 24' 30"  
T = 570.12  
L = 1,074.31  
R = 1,300.00  
PC STA. = 133+78.62  
PT STA. = 144+52.93


CURVE DATA BL\_GRIFFIN\_21  
PI STA. = 326+41.45  
Δ = 9° 24' 01" (LT)  
D = 1° 11' 37"  
T = 394.64  
L = 787.52  
R = 4,800.00  
PC STA. = 322+46.80  
PT STA. = 330+34.32

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT LAYOUT		200672	11

COORDINATE TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
110	813504.75'	738296.18'	26.97'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
105	813658.70'	738265.38'	27.21'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
113	812805.74'	738187.71'	26.53'	SET N-D "CARDNO T.P. LB 7975"
106	813652.95'	738648.27"	26.15'	SET N-D "CARDNO T.P. LB 7975"
107	813649.38'	738897.12'	25.99'	SET N-D "CARDNO T.P. LB 7975"
108	813539.15'	738650.20'	26.36'	SET N-D "CARDNO T.P. LB 7975"
109	813534.44'	738362.93'	26.16'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
111	813257.75'	738313.82'	27.38'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
112	812763.47'	738298.99'	28.55'	SET N-D "CARDNO T.P. LB 7975"
114	813053.64'	738203.40'	27.18'	SET N-D "CARDNO T.P. LB 7975"
115	813560.82'	738154.20'	26.98'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
116	813641.95'	737921.13'	25.24'	SET N-D "CARDNO T.P. LB 7975"
117	813642.60'	738167.23'	26.95'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
118	814135.81'	738113.66'	25.91'	SET N-D "CARDNO T.P. LB 7975"
119	814233.15'	738105.78'	26.42'	SET N-D "CARDNO T.P. LB 7975"
120	814143.38'	738218.90'	26.38'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
121	813899.42'	738273.67"	26.22'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
102	813656.87'	738445.49'	26.13'	SET N-D "CARDNO T.P. LB 7975"
150	813696.64'	737728.11'	25.71'	SET N-D "CARDNO T.P. LB 7975"
151	813724.15'	737733.94'	25.77'	SET N-D "CARDNO T.P. LB 7975"

LEGEND:					
	AIR RELEASE VALVE		FLAG POLE		SPRINKLER
	BACKFLOW PREVENTER		FORCE MAIN		STEEL POST
	BENCH MARK		FORCE MAIN AIR RELEASE VALVE		TELEPHONE BOX OR VAULT
	BOLLARD		GAS PIPELINE MARKER		TELEPHONE CANISTER
	CABLE RISER		GROUND LIGHT		TELEPHONE FLAG
	CABLE TV BOX		GUARD RAIL		TELEPHONE MANHOLE
	CATCH BASIN		GUY POLE		TELEPHONE RISER
	CENTERLINE		GUY WIRE		TOE OF SLOPE
	CLEANOUT		HAND-CAP PARKING		TOP OF BANK
	COORDINATE NUMBER		HOSE BIB		TRAFFIC SIGNAL BOX
	CONCRETE POWER POLE		IRRIGATION BOX		TRAFFIC SIGNAL POLE
	DRAINAGE MANHOLE		IRRIGATION VALVE		UNKNOWN UTILITY VAULT OR BOX
	ELECTRICAL BOX		LIGHT POLE		UNKNOWN UTILITY MANHOLE
	ELECTRIC OUTLET		MAIL BOX		UNDERGROUND UTILITIES
	ELECTRIC METER		MITERED END		WATER MAIN
	ELECTRIC LINE		WELL		WATER LINE FLAG
	ELECTRIC FLAG		OVERHEAD POWER LINE		WATER METER
	EXISTING ELEVATION		OVERHEAD TELEPHONE LINE		WATER VALVE
	FENCE - BARBED WIRE		POWER POLE		WOOD SUPPORT POLE
	FENCE - CHAIN LINK		POWER POLE w/RISER		YARD DRAIN
	FENCE - WOOD		RECLAIM WATER LINE FLAG		CROSS WALK SIGNAL POLE
	FIBER OPTIC MARKER / POST		SEWER LINE FLAG		CROSS WALK BUTTON POLE
	FIBER OPTIC BOX		SANITARY SEWER LINE		BUSH
	FIRE HYDRANT		SEWER MANHOLE		CABBAGE PALM
	FIRE VALVE		SEWER VALVE		OAK TREE
			SECURITY SENSOR		PALM TREE
			SIGN SINGLE POST		PINE TREE
			SIGN DOUBLE POST		SHADE TREE (VARIOUS TYPE)

ABBREVIATIONS:	
AC. = ACRE	MH = MANHOLE
A.C. = AIR CONDITIONER	MHWL = MEAN HIGH WATER LINE
A.K.A. = ALSO KNOWN AS	MISC. = MISCELLANEOUS
ALUM. = ALUMINUM	MON = MONUMENT
APPR. = APPROXIMATE	NAD = NORTH AMERICAN DATUM
AVE. = AVENUE	N.A.V.D. = NORTH AMERICAN VERTICAL DATUM
BLDG. = BUILDING	NGS = NATIONAL GEODETIC SURVEY
BLVD. = BOULEVARD	N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM (1929)
BM = BENCHMARK	No. = NUMBER
BOC = BACK OF CURB	N.T.S. = NOT TO SCALE
BOW = BACK OF WALK	N.T.T. = NAIL & TIN TAB
BSM = BUREAU OF SURVEYING AND MAPPING	O/H = OVERHANG
(C) = CALCULATED	O.H.W.L. = ORDINARY HIGH WATER LINE
CATV = CABLE TELEVISION	O.H.W.M. = ORDINARY HIGH WATER MARK
CB = CATCH BASIN	O.R. = OFFICIAL RECORD BOOK / PAGE
CBS = CONCRETE BLOCK STRUCTURE	(P) = PLAT
C.C.R. = CERTIFIED CORNER RECORD	PB = PLAT BOOK
CDB = CHORD BEARING	P.C. = POINT OF CURVATURE
CH = CHORD	PCP = PERMANENT CONTROL POINT
CLF = CHAIN LINK FENCE	PG (S) . = PAGE(S)
CM = CONCRETE MONUMENT	P.I. = POINT OF INTERSECTION
CMP = CORRUGATED METAL PIPE	PKN&D = PARKER-KALON NAIL & DISK
C.O. = CLEANOUT	PKWY. = PARKWAY
CONC. = CONCRETE	PL = PROPERTY LINE
CONT. = CONTROL	PLS = PROFESSIONAL LAND SURVEYOR
CPP = CORRUGATED PLASTIC PIPE	P.O.B. = POINT OF BEGINNING
COR. = CORNER	P.O.C. = POINT OF COMMENCEMENT
CORP. = CORPORATION	P.O.T. = POINT OF TERMINUS
C.P. = CONTROL POINT	PP = POWER POLE
C.R. = COUNTY ROAD	P.R.M. = PERMANENT REFERENCE MONUMENT
CT. = COURT	PROP. = PROPERTY
C.U.E. = COUNTY UTILITY EASEMENT	PSM = PROFESSIONAL SURVEYOR AND MAPPER
(D) = DEED	PT. = POINT
D.E. = DRAINAGE EASEMENT	P.T. = POINT OF TANGENCY
(DESC.) = DESCRIPTION	P.U.E. = PUBLIC UTILITY EASEMENT
DH = DRILL HOLE	PVC = POLY VINYL CHLORIDE
DIA. = DIAMETER	R = RADIUS OR RIGHT
DR. = DRIVE	(R) = RECORD
DWG. = DRAWING	RCP = REINFORCED CONCRETE PIPE
EL. = ELEVATION	RGE = RANGE
ELEC. = ELECTRIC	RLS = REGISTERED LAND SURVEYOR
EOP = EDGE OF PAVEMENT	R.R. = RAILROAD
EOW = EDGE OF WATER	RT = RIGHT
ERCP = ELLIPTICAL REINFORCED CONCRETE PIPE	RTA = RIGHT ANGLE
ESMT. = EASEMENT	R/W = RIGHT-OF-WAY
EXIST. = EXISTING	SEC. = SECTION
(F) = FIELD	S.F. = SQUARE FEET
FDEP = FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	SFWMD = SOUTH FLORIDA WATER MANAGEMENT DISTRICT
FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION	SHT. = SHEET
FEMA = FEDERAL EMERGENCY MANAGEMENT AGENCY	S.R. = STATE ROAD
F.F. = FINISHED FLOOR	S.S. = SANITARY SEWER
FND = FOUND	STA. = STATION
FPL OR FP&L = FLORIDA POWER & LIGHT	ST. = STREET
F.S. = FLORIDA STATUTES	SFWFMD = SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
FT. = FOOT / FEET	T = TANGENT
GLO = GENERAL LAND OFFICE	TEL = TELEPHONE
GPS = GLOBAL POSITIONING SYSTEM	TIIF = TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA
I.D. = IDENTIFICATION	TIITF = BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA
I.D.D. = IONA DRAINAGE DISTRICT	TOB = TOP OF BANK
I.N. = INSTRUMENT NUMBER	TOE = TOE OF SLOPE
INC. = INCORPORATED	T.P. = TRAVERSE POINT
INST. = INSTRUMENT	TRANS. = TRANSITION
INV. = INVERT	TWP = TOWNSHIP
I.P. = IRON PIPE	TYP = TYPICAL
IR = IRON ROD (5/8" DIA. U.O.N.)	U.E. = UTILITY EASEMENT
IRC OR IR&C = IRON ROD & CAP	U.O.N. = UNLESS OTHERWISE NOTED
IRR. = IRRIGATION	USGS = UNITED STATES GEOLOGICAL SURVEY
L = LENGTH	w/ = WITH
LABINS = LAND BOUNDARY INFORMATION SYSTEM (STATE OF FLORIDA)	Y.D. = YARD DRAIN
LAT = LATITUDE	Δ = DELTA ANGLE
LB = LICENSED BUSINESS	± = MORE OR LESS
LN. = LANE	# = NUMBER
LONG = LONGITUDE	" " = STAMPING OF CAP OR DISK
LS = LICENSED SURVEYOR	
LT = LEFT	
(M) = MEASURED	
MAG = MAGNETIC	
ME = MITERED END	

REVISIONS					<div><div></div><div>DEPARTMENT OF TRANSPORTATION</div></div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.  200672	SHT. NO.  12
DATE	DESCRIPTION	DATE	DESCRIPTION					
				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		PROJECT CONTROL		



PROJECT NOTES:

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). COORDINATE SYSTEM FOR THIS PROJECT SHALL BE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE; NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT).

2. THE COST OF SAW CUTTING SHALL BE INCIDENTAL TO THE WORK BEING PERFORMED.

3. ALL LANES MUST BE ABLE TO BE RE-OPENED IN 12 HOURS FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER EMERGENCY EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.

4. PAVEMENT MARKINGS AND SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND FDOT STANDARD PLANS, INDEX 711-001

5. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES IN THE FIELD

6. CONTRACTOR SHALL VERIFY ALL UTILITIES AND PROVIDE AT LEAST 48 HOURS NOTICE TO THE INDIVIDUAL UTILITY COMPANIES AND LCDOT PRIOR TO CONSTRUCTION.

UTILITY/AGENCY OWNERS:

COMPANY CONTACT

TELEPHONE NUMBERS

CENTURYLINK

EZEKIEL REID

239-336-2030

COMCAST CABLE

STEVE HUTSON

754-221-1254

FLORIDA POWER AND LIGHT

JUAN CRUZ

941-423-4842

GATEWAY SERVICES DISTRICT

CHRIS SHOEMAKER

239-561-1313

LEE COUNTY UTILITIES

ALLAN MAKAU

239-533-8598

TECO PEOPLES GAS (FT. MYERS)

ANTHONY BAUBLITZ

941-342-4025

7. A STORMWATER POLLUTION PREVENTION PLAN SHALL BE PREPARED IN ACCORDANCE WITH SECTION 104 OF THE FDOT SPECIFICATIONS, THE NOTICE OF INTENT SHALL BE PREPARED FOR THE NPDES STORMWATER PERMIT AND SUBMITTED TO OBTAIN PERMIT COVERAGE. FULL COMPENSATION FOR ALL ITEMS SHALL BE INCLUDED IN THE COST OF PAY ITEMS 104-10-3, 104-12, 104-15 and 104-18.

8. IN ANY EXCAVATION WORK IT SHOULD BE NOTED THAT THE WATER TABLE IS HIGH IN THIS AREA. WATER TABLE SHOWN ON CROSS SECTIONS MAY DIFFER FROM SEASONAL HIGH WATER TABLE (SHWT).

9. ALL CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CURRENT LEE COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS AND ALL REQUIRED INSPECTIONS PERFORMED AS REQUIRED BY THEM. CONTRACTOR SHALL PROVIDE BOND AND PERMIT FEE AS REQUIRED.

10. CONCRETE SIDEWALK: USE CLASS 1, 3000 PSI (MINIMUM) CONCRETE. APPLY BROOM FINISH AND MAKE VERTICAL SAW CUTS AT 5' ON CENTER AT A DEPTH OF ¼ OF THE SLAB THICKNESS. PROVIDE PRE-FORMED EXPANSION JOINTS AT 50' ON CENTER. ALL CONCRETE SIDEWALK AND DRIVEWAYS TO BE 6" THICK.

11. ALL MATERIALS AND WORKMANSHIP UNDER THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF LEE COUNTY DEVELOPMENT STANDARDS, LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2020-21, UNLESS OTHERWISE NOTED.

12. ALL PERVIOUS AREAS WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE SODDED. EXISTING SOD IS MOSTLY SAINT AUGUSTINE. MATCH EXISTING OR LANDSCAPE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN IF INCLUDED WITH THIS PLAN SET OR PROVIDED SEPARATELY AS PART OF CONTRACT.

13. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND/OR LCDOT.

14. ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS SHALL BE COMPLIED WITH.

15. APPROPRIATE TURBIDITY CONTROL DEVICES SUCH AS SILT FENCES WILL BE UTILIZED DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NPDES NOTICE OF INTENT, NOTICE OF TERMINATION, AND LEE COUNTY RIGHT-OF-WAY PERMITS. NOI MUST BE FILED WITH FDEP IN ACCORDANCE WITH DEP DOCUMENT NO. 62-621 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING AND MAINTAINING AN EFFECTIVE STORMWATER POLLUTION PREVENTION PLAN.

16. ALL EXISTING PIPES THAT ARE TO REMAIN IN SERVICE WITHIN THE RIGHT-OF-WAY CORRIDOR ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.

17. ALL EXISTING DRAINAGE STRUCTURES ARE TO REMAIN UNLESS NOTED ON THE ROADWAY PLANS.

18. CONTRACTOR SHALL MARK THE PROPERTY LINE LOCATION AND NOTIFY BUSINESS/HOME OWNERS TO REMOVE ANY EXISTING LANDSCAPING (I.E. SOD, BUSHES, TREES, ETC.) AND/OR SPRINKLER PIPE OR SPRINKLER HEADS AND FENCING THAT IS LOCATED WITHIN THE EXISTING PUBLIC RIGHT-OF-WAY OR EASEMENT AT LEAST ONE (1) WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

19. NOTIFY RESIDENCES AND BUSINESSES AT LEAST 48 HOURS IN ADVANCE OR ANY DISRUPTION IN SERVICE, INCLUDING DRIVEWAY CUTS.

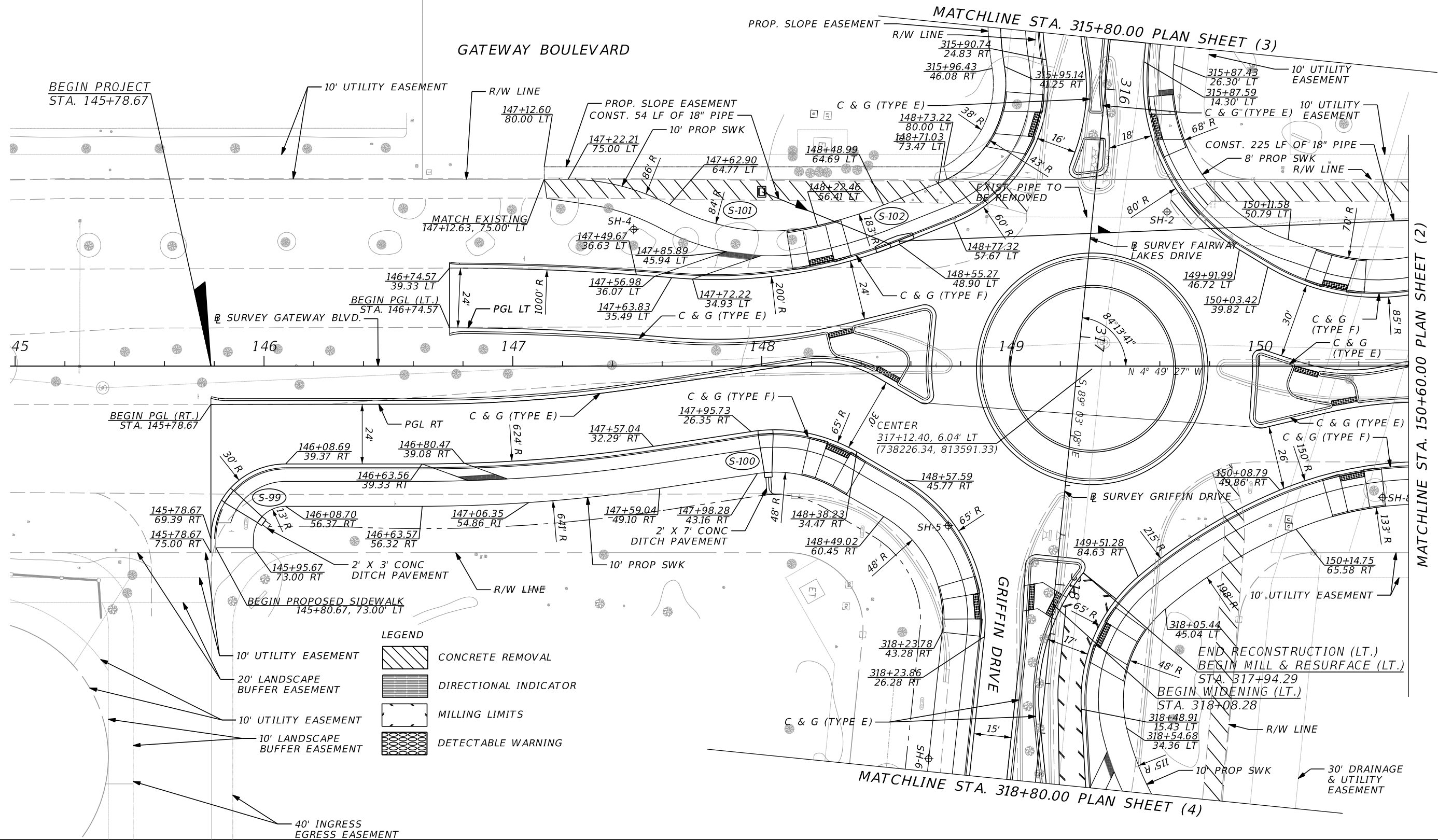
20. WATER TABLE SHOWN ON CROSS SECTION MAY DIFFER FROM SEASONAL HIGH WATER TABLE (SHWT).

21. ALL STORM PIPES LOCATED WITHIN THE PROJECT LIMITS ARE TO BE DESILTED PRIOR TO COMPLETION OF PROJECT CONSTRUCTION.

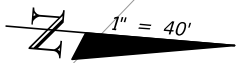
22. ALL PROPOSED PIPE WITHIN THE RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE (RCP/ERCP).

23. TREES TO BE REMOVED ARE NOTED ON THE EROSION CONTROL PLANS. THE TREES IDENTIFIED ARE ONLY AN ESTIMATE BASED ON DESIGN ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE NUMBER OF TREES THAT NEED TO BE REMOVED TO CONSTRUCT THIS PROJECT, INCLUDING TRAFFIC CONTROL PHASING AND OTHER CONSTRUCTION RELATED ACTIVITIES. LOCATIONS OF TREES TO BE REMOVED SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL BEFORE TREE REMOVAL BEGINS. TREE AND STUMP REMOVAL WILL BE PAID FOR UNDER PAY ITEM 110-1-1, LUMP SUM.

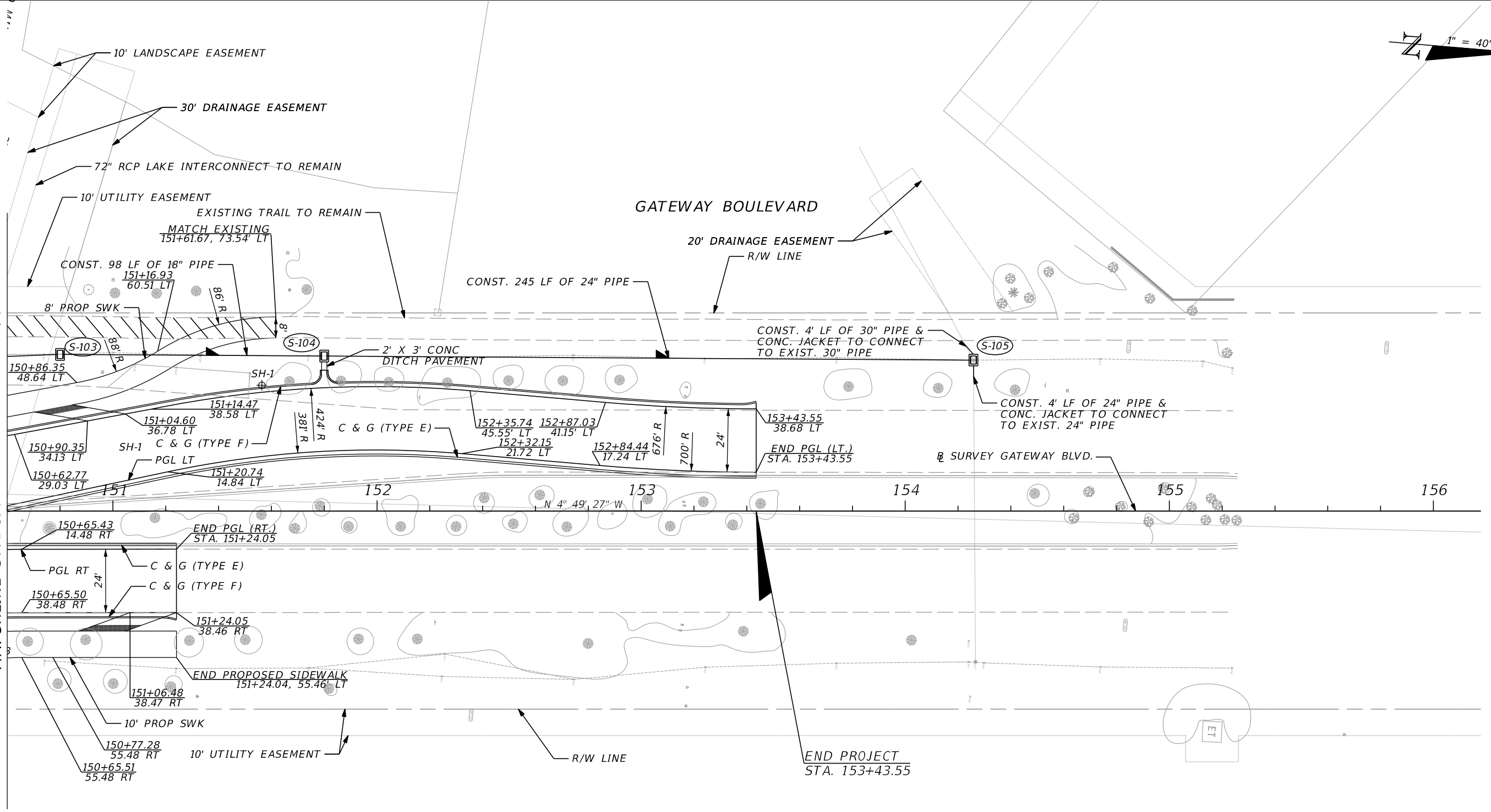
REVISIONS				<div>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759</div>	<div><div><div><div></div></div><div>Lee County</div><div>Southwest Florida</div></div><div>DEPARTMENT OF TRANSPORTATION</div></div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT NOTES	200672	13



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MATCHLINE STA. 150+60.00 PLAN SHEET (1)

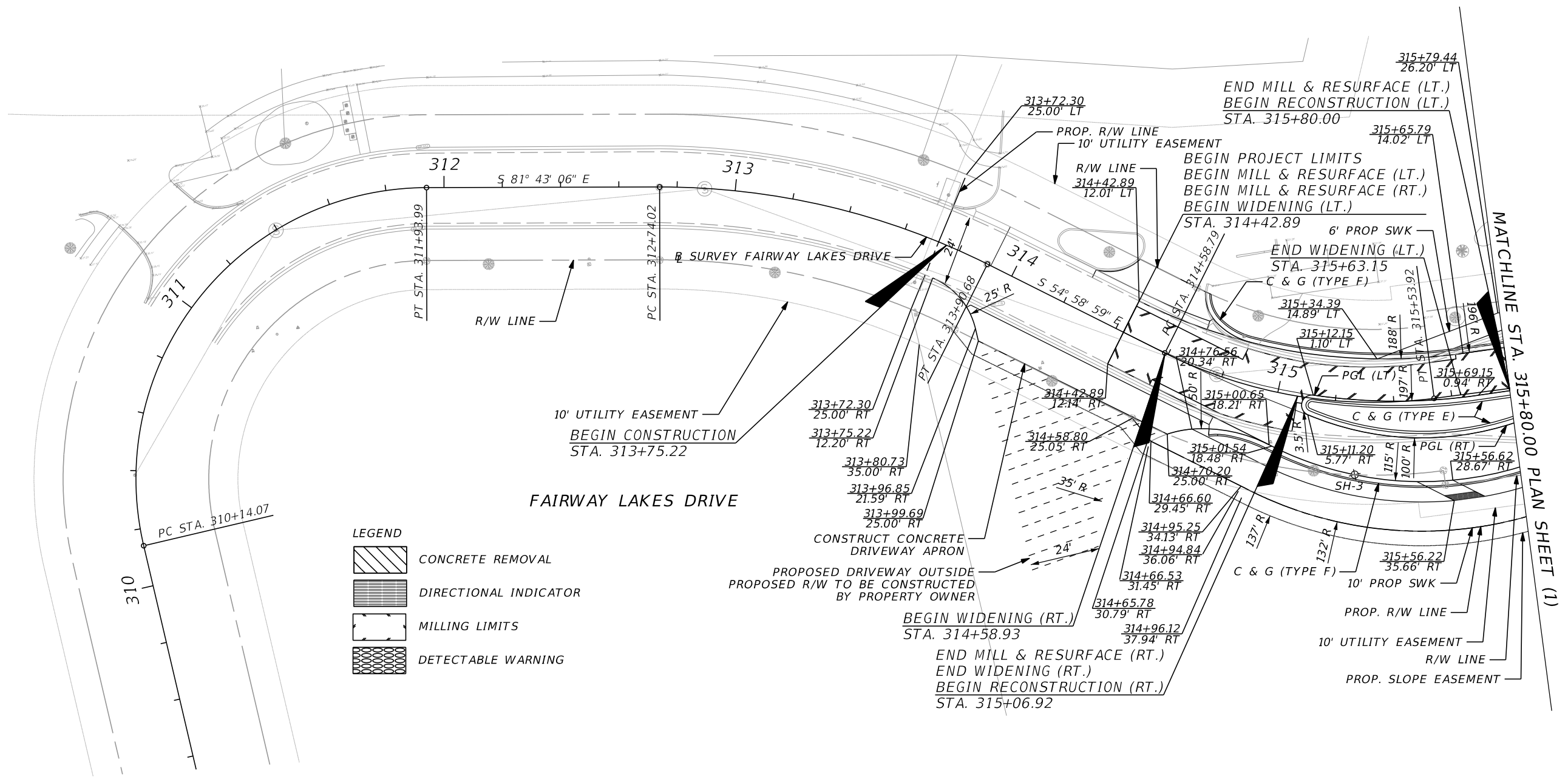


LEGEND


	CONCRETE REMOVAL
	DIRECTIONAL INDICATOR
	MILLING LIMITS
	DETECTABLE WARNING

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PLAN SHEET (2)		200672	15

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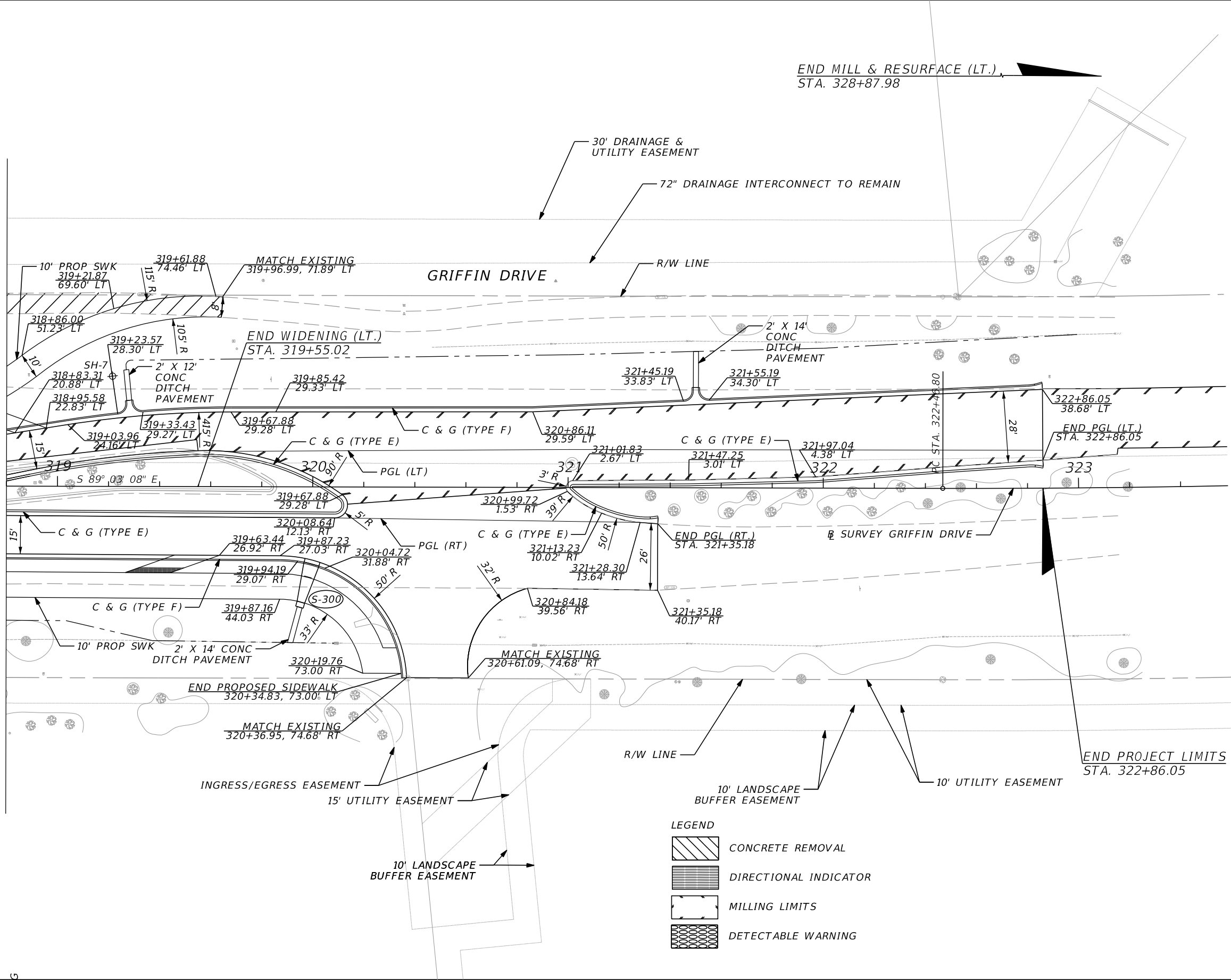


- LEGEND
- CONCRETE REMOVAL
  - DIRECTIONAL INDICATOR
  - MILLING LIMITS
  - DETECTABLE WARNING

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PLAN SHEET (3)		200672	16

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

MATCHLINE STA. 318+80.00 PLAN SHEET (1)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

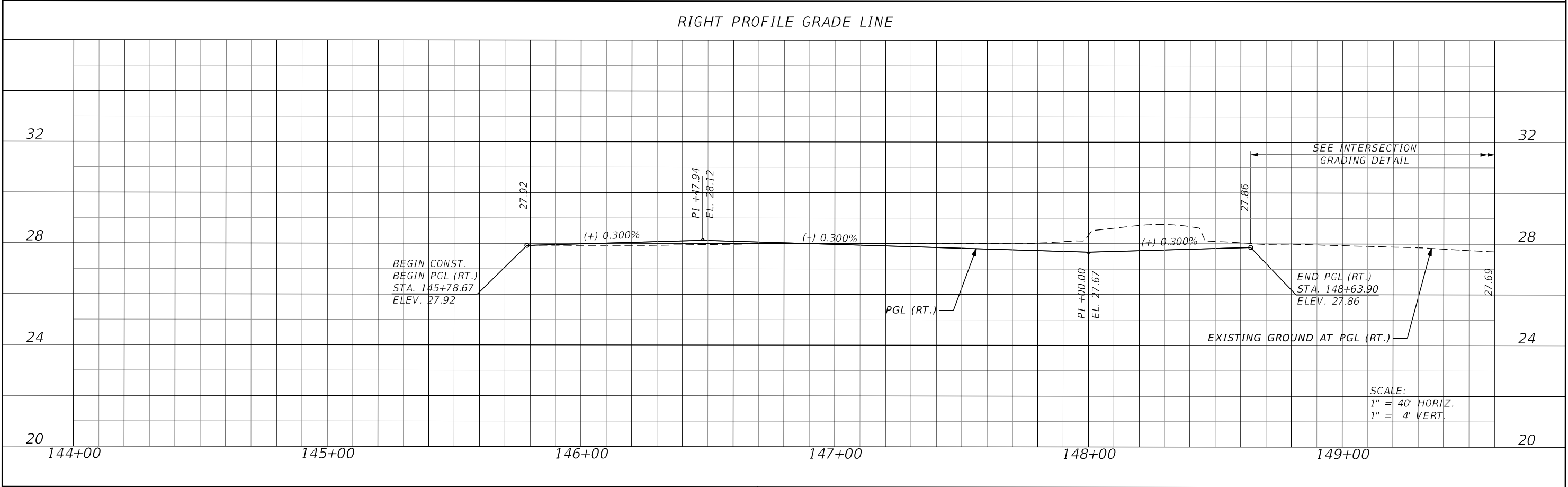
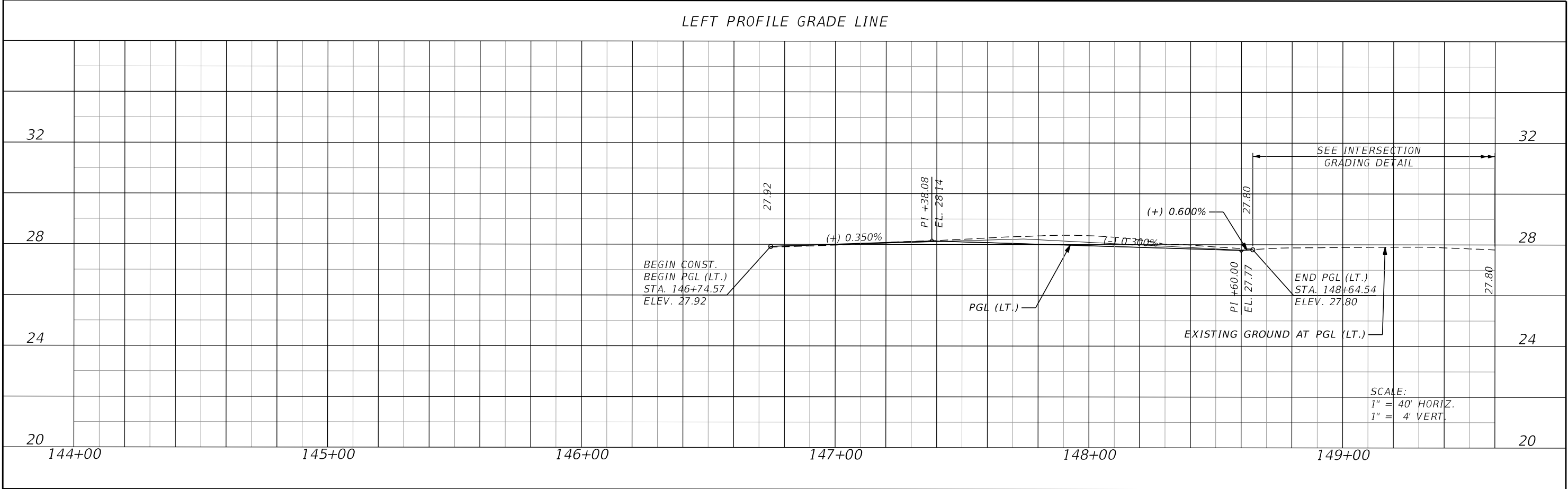
JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759




GATEWAY BOULEVARD AT GRIFFIN DRIVE  
INTERSECTION CONTROL (ROUNDBOUT)  
  
**PLAN SHEET (4)**

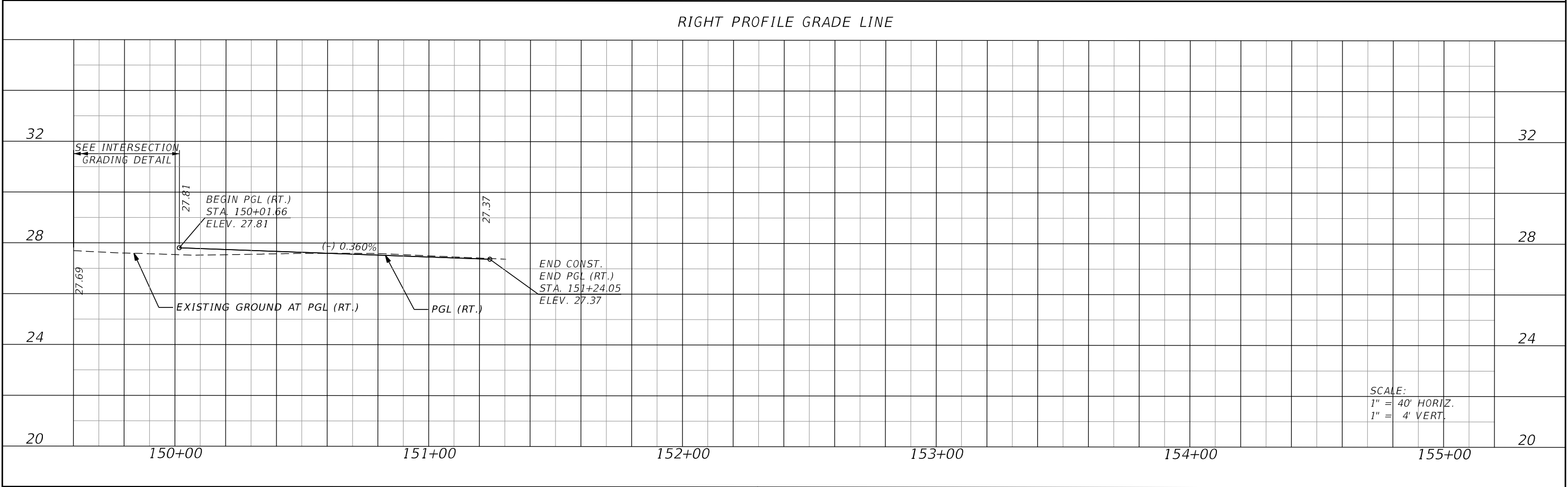
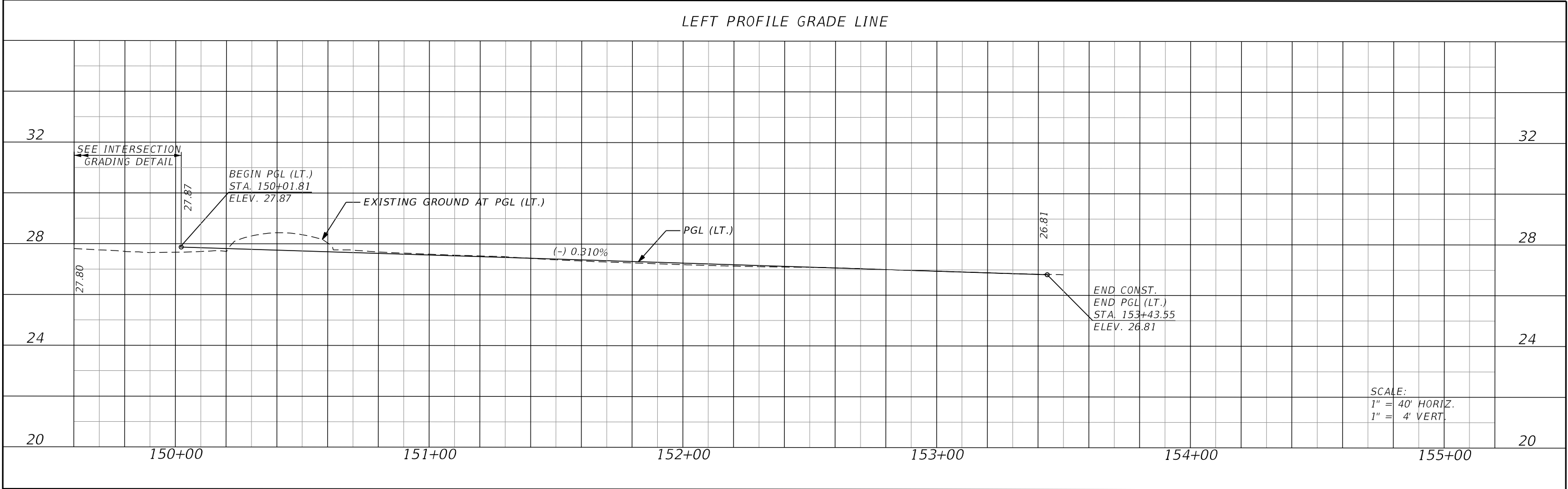
COUNTY PROJECT NO.	SHT. NO.
200672	17


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



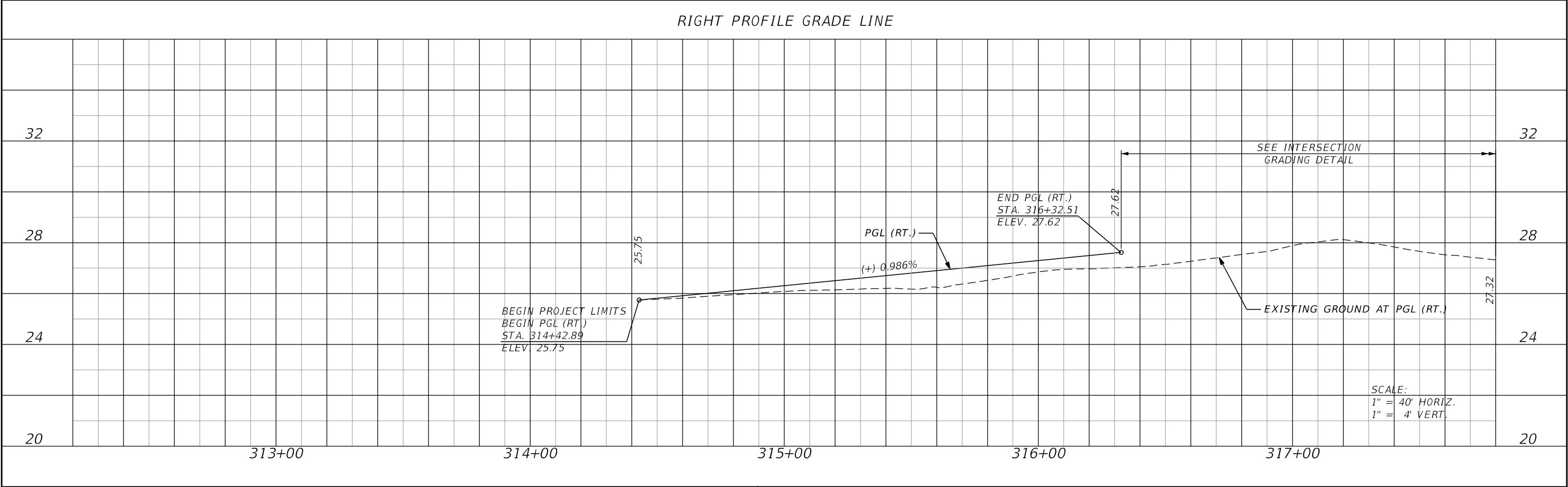
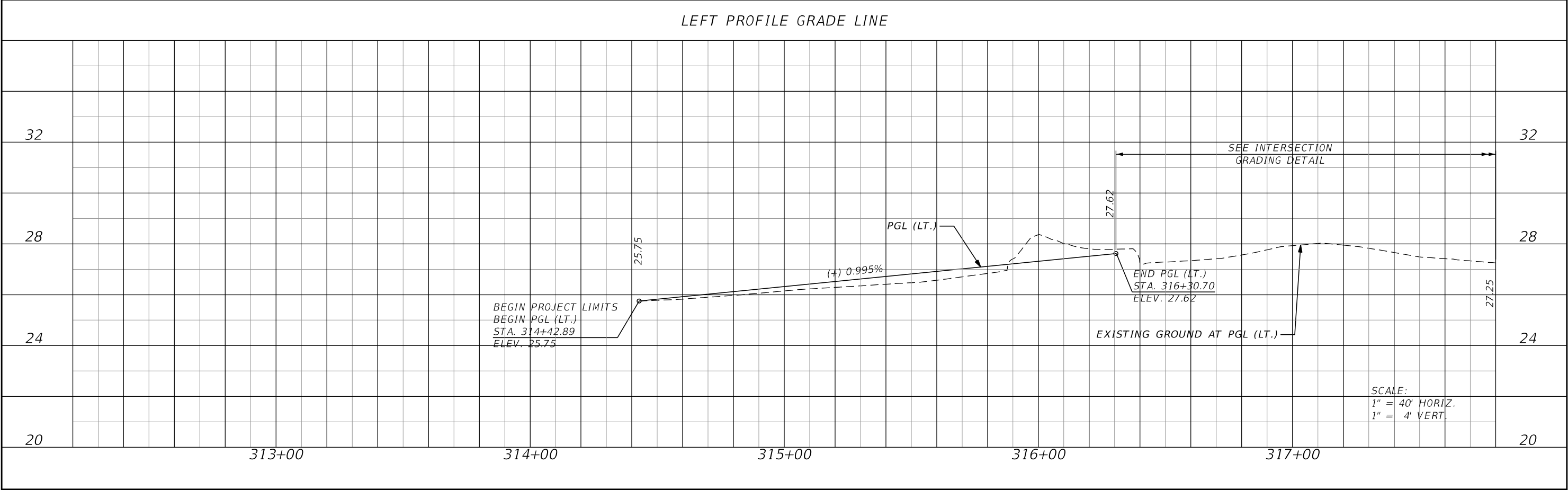
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO. 200672	SHT. NO. 18
DATE	DESCRIPTION	DATE	DESCRIPTION			ROADWAY PROFILE (1) (GATEWAY BOULEVARD)			


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REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		CIP NO. 200672	SHT. NO. 19
DATE	DESCRIPTION	DATE	DESCRIPTION			ROADWAY PROFILE (2) (GATEWAY BOULEVARD)			

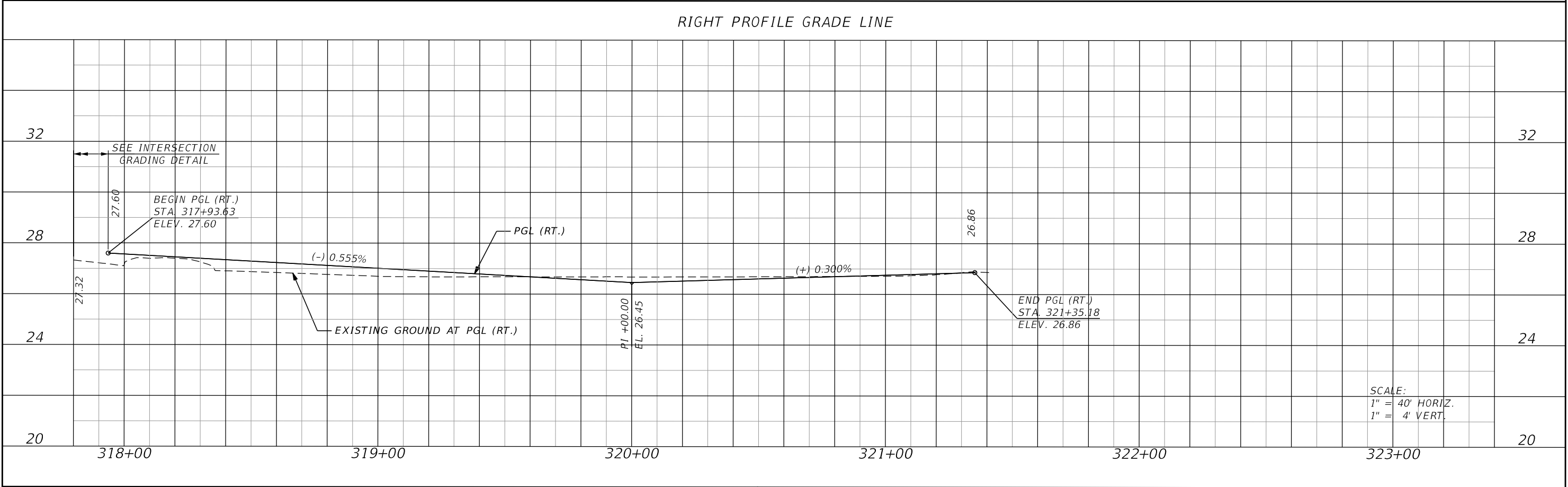
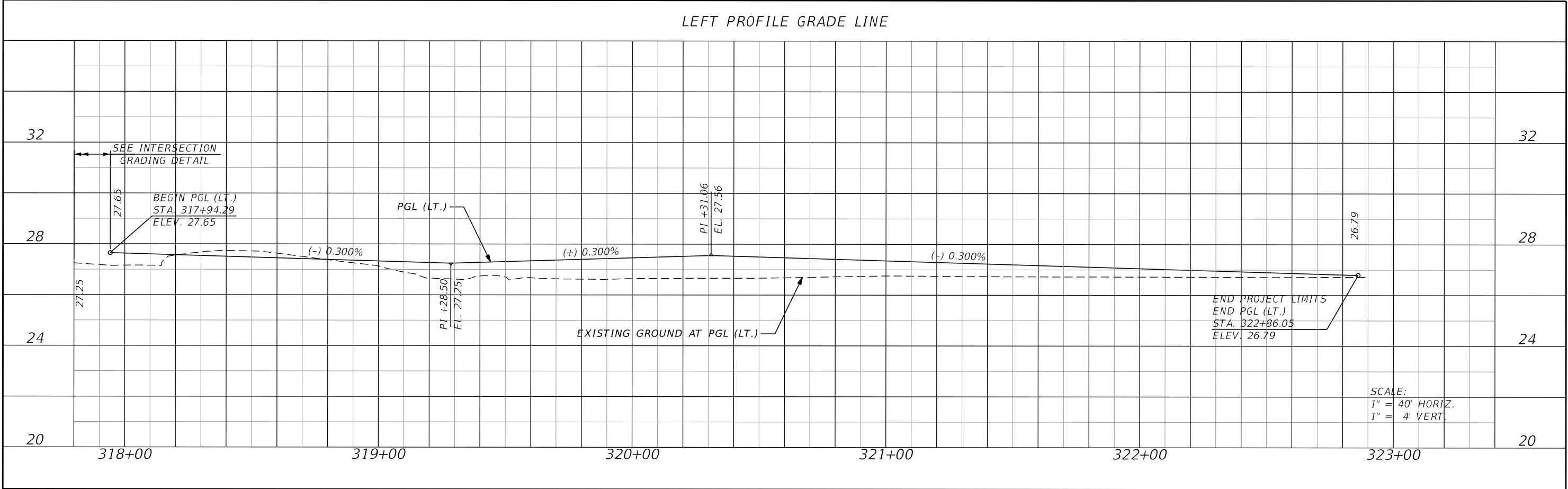
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO. 200672	SHT. NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION			ROADWAY PROFILE (3) (FAIRWAY LAKES DRIVE)			

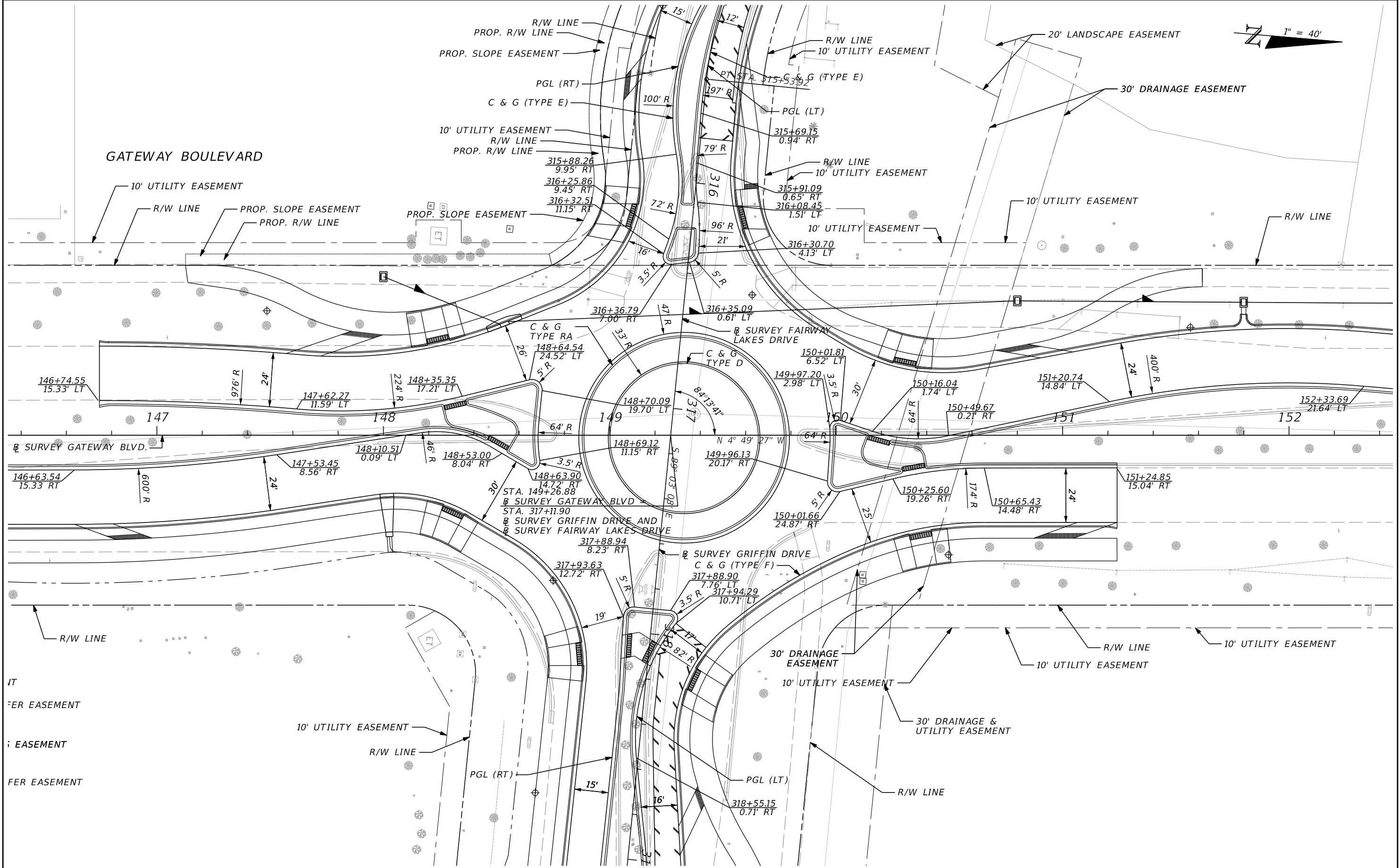
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.






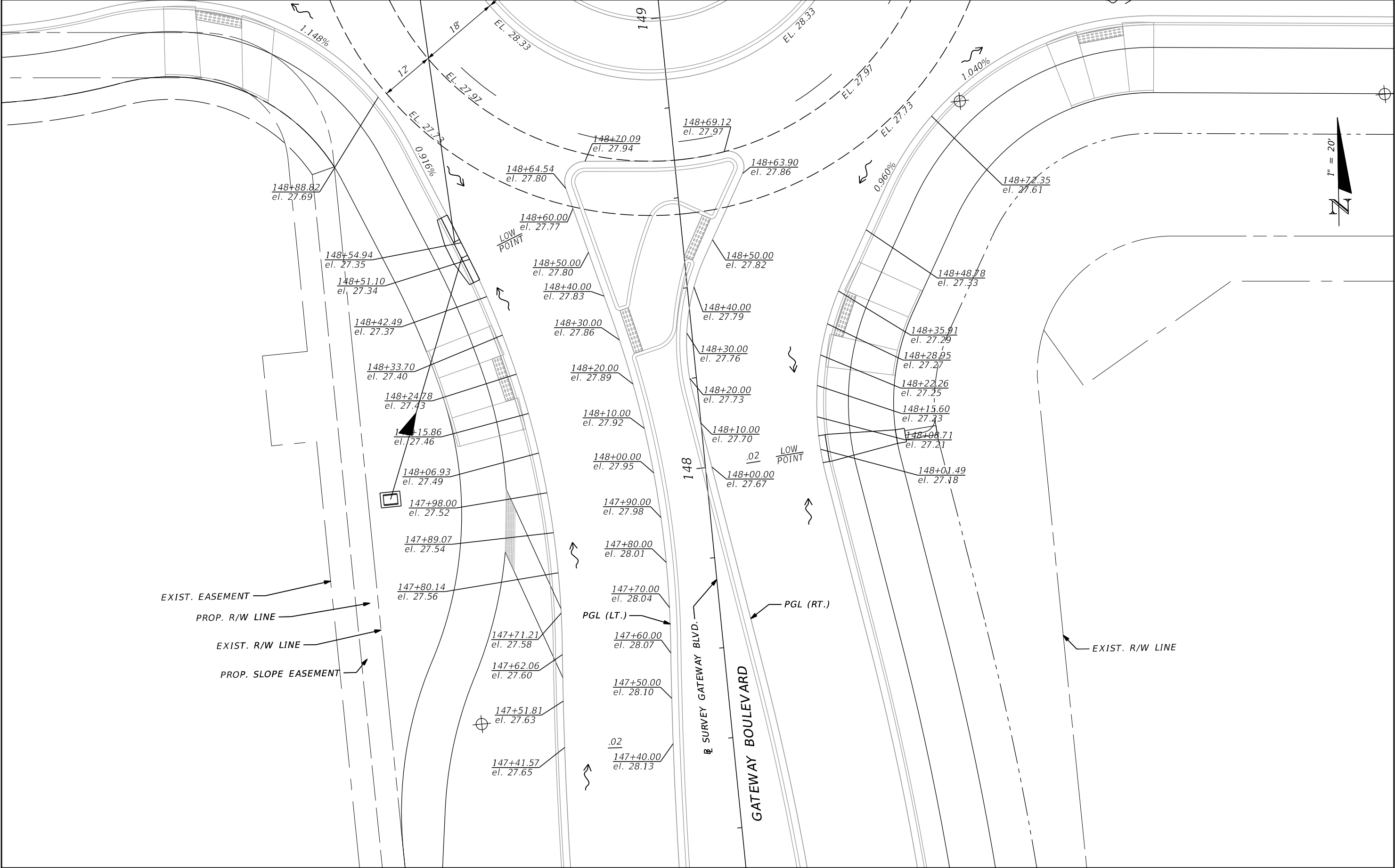
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO. 200672	SHT. NO. 21
DATE	DESCRIPTION	DATE	DESCRIPTION			ROADWAY PROFILE (4) (GRIFFIN DRIVE)			


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



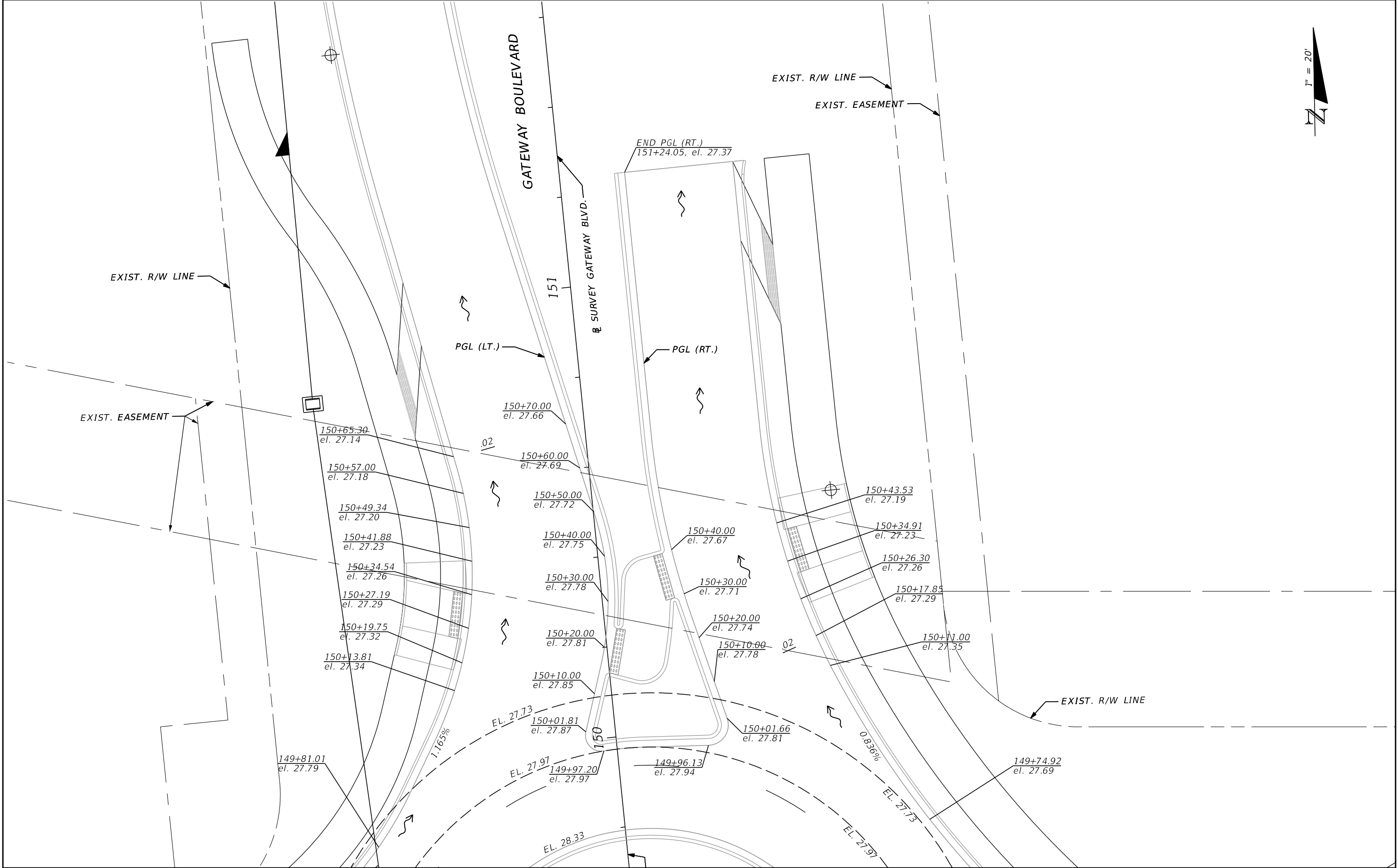
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			INTERSECTION DETAILS		200672	22


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



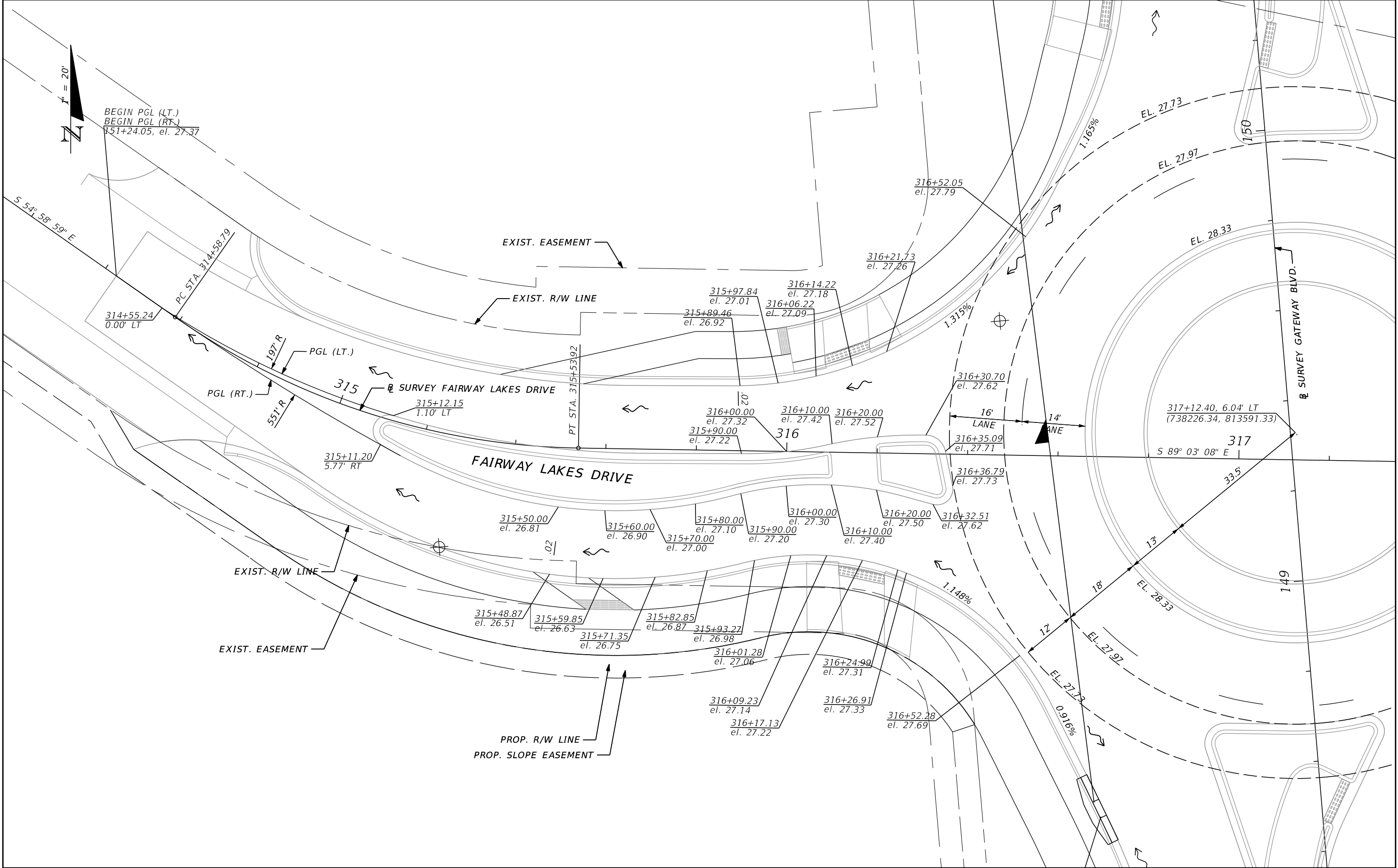
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	<div><div>Lee County Southwest Florida</div><div>DEPARTMENT OF TRANSPORTATION</div></div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			INTERSECTION GRADING DETAIL (1)		200672	23


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



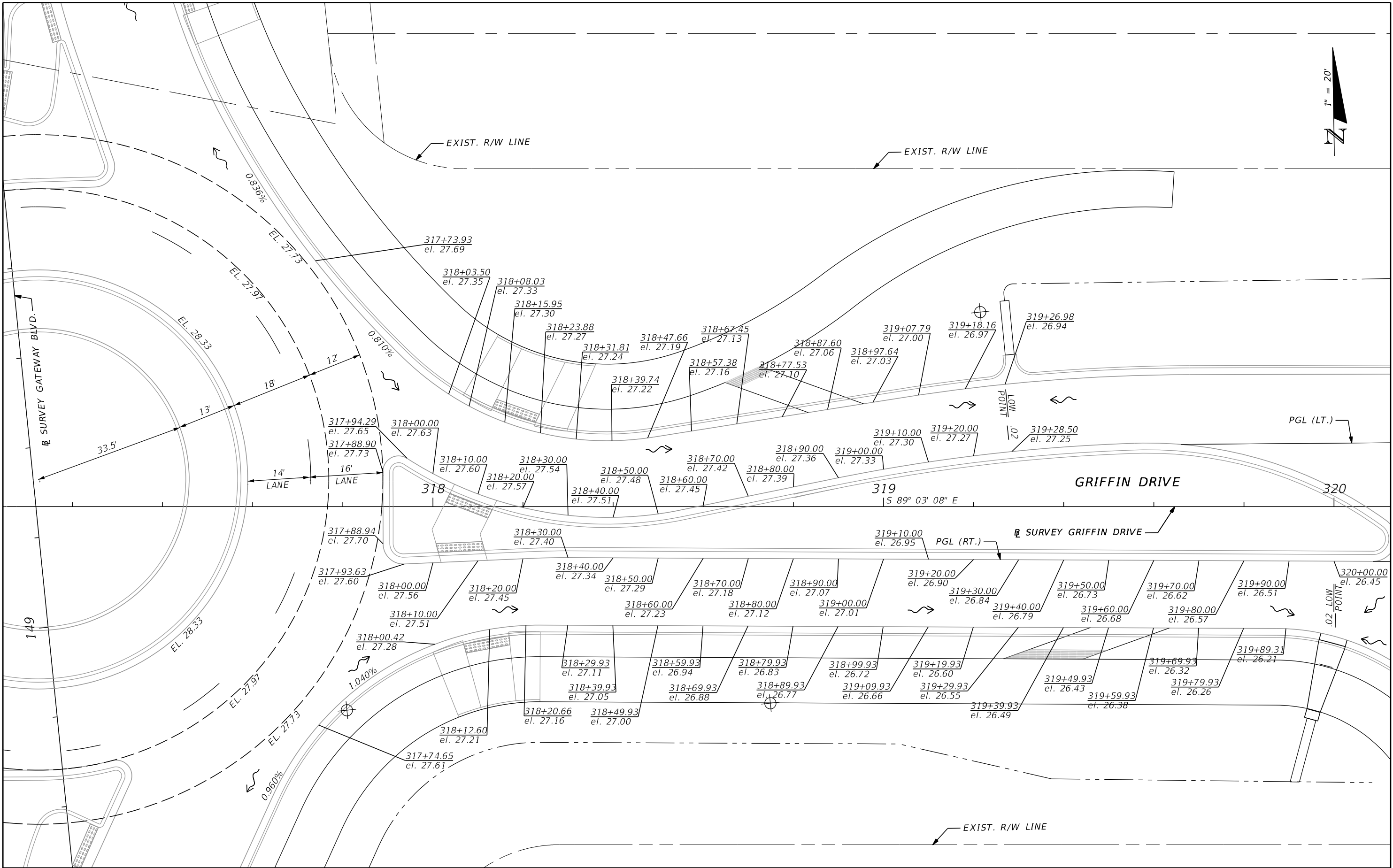
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			INTERSECTION GRADING DETAIL (2)		200672	24


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



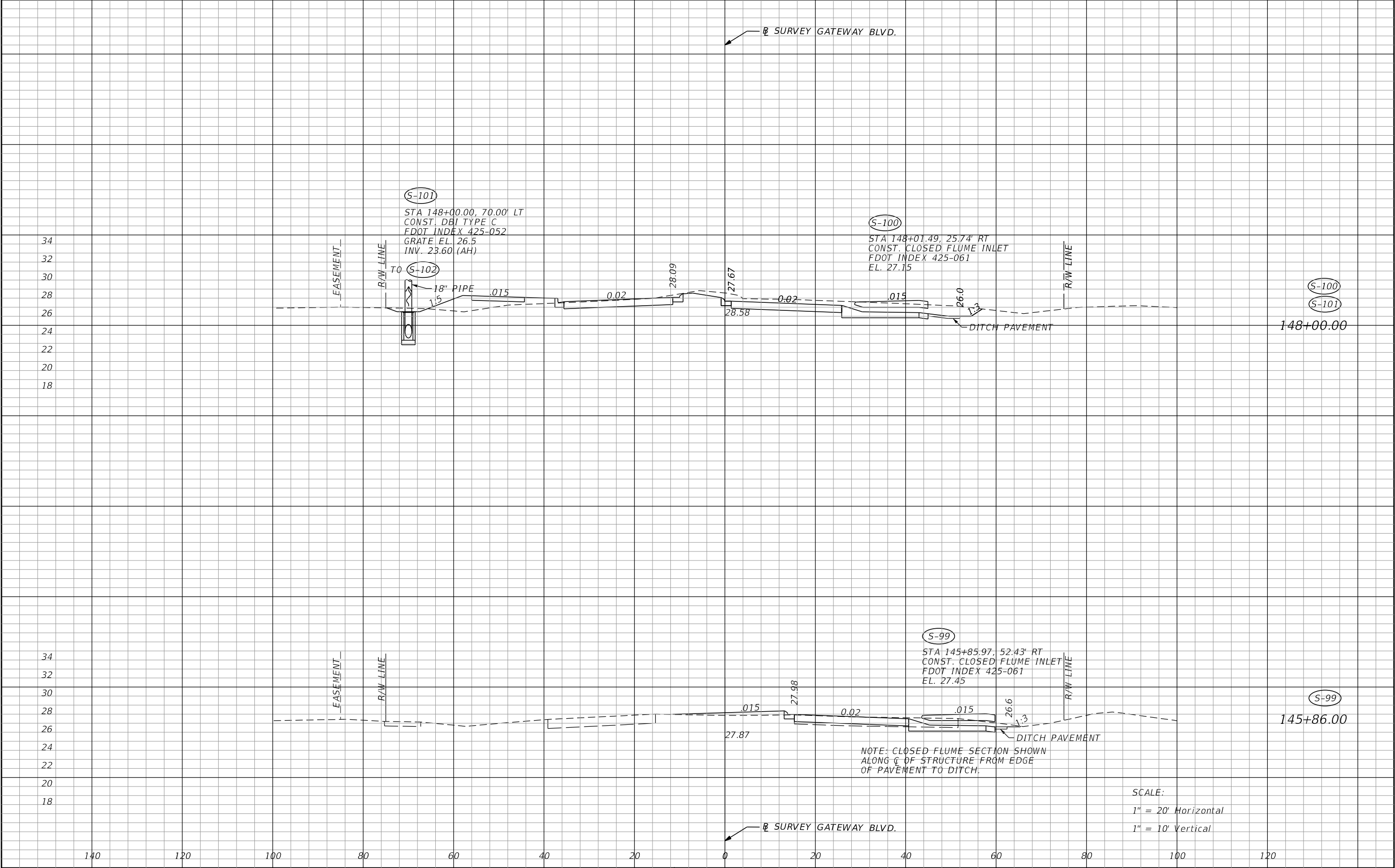
REVISIONS				DATE	DESCRIPTION	DATE	DESCRIPTION	JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION							INTERSECTION GRADING DETAIL (3)		200672	25


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



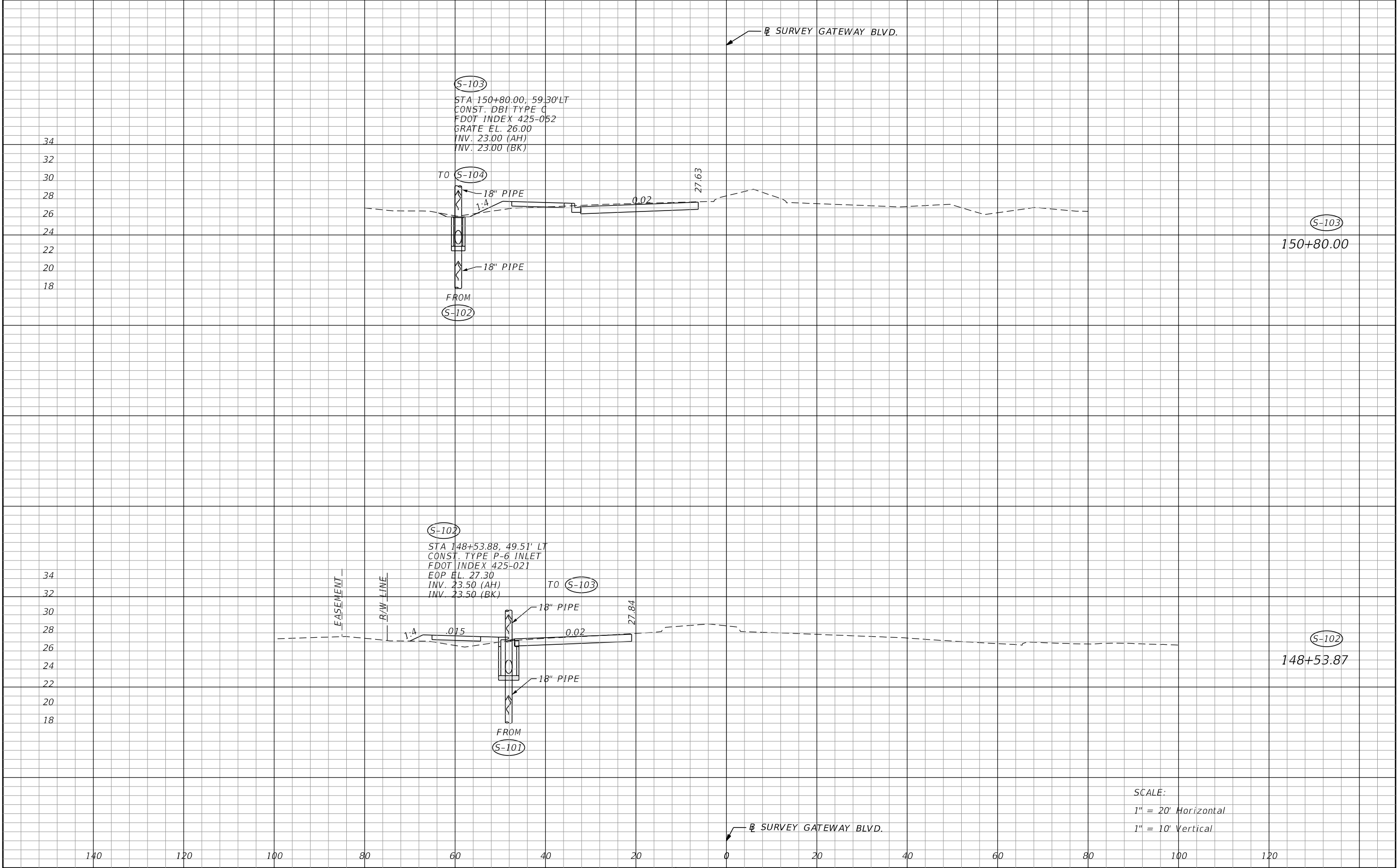
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			INTERSECTION GRADING DETAIL (4)		200672	26


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



REVISIONS				CHRISTOPHER J. KNOX, P.E. P.E. LICENSE NUMBER 67350 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNABOUT)		CIP NO. 200672	SHT. NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION			DRAINAGE STRUCTURES (1)			

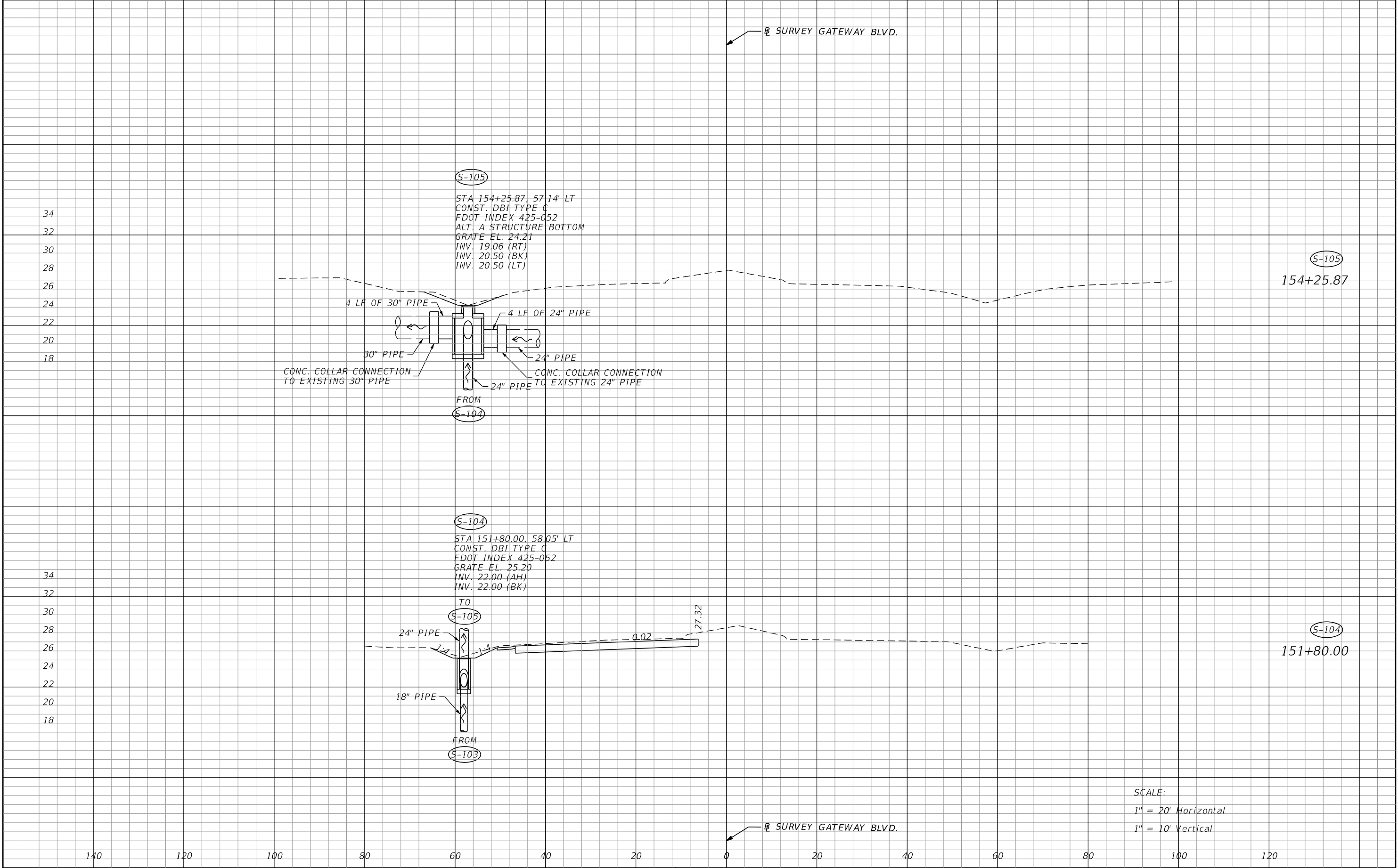
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




REVISIONS				CHRISTOPHER J. KNOX, P.E. P.E. LICENSE NUMBER 67350 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			DRAINAGE STRUCTURES (2)		200672	28

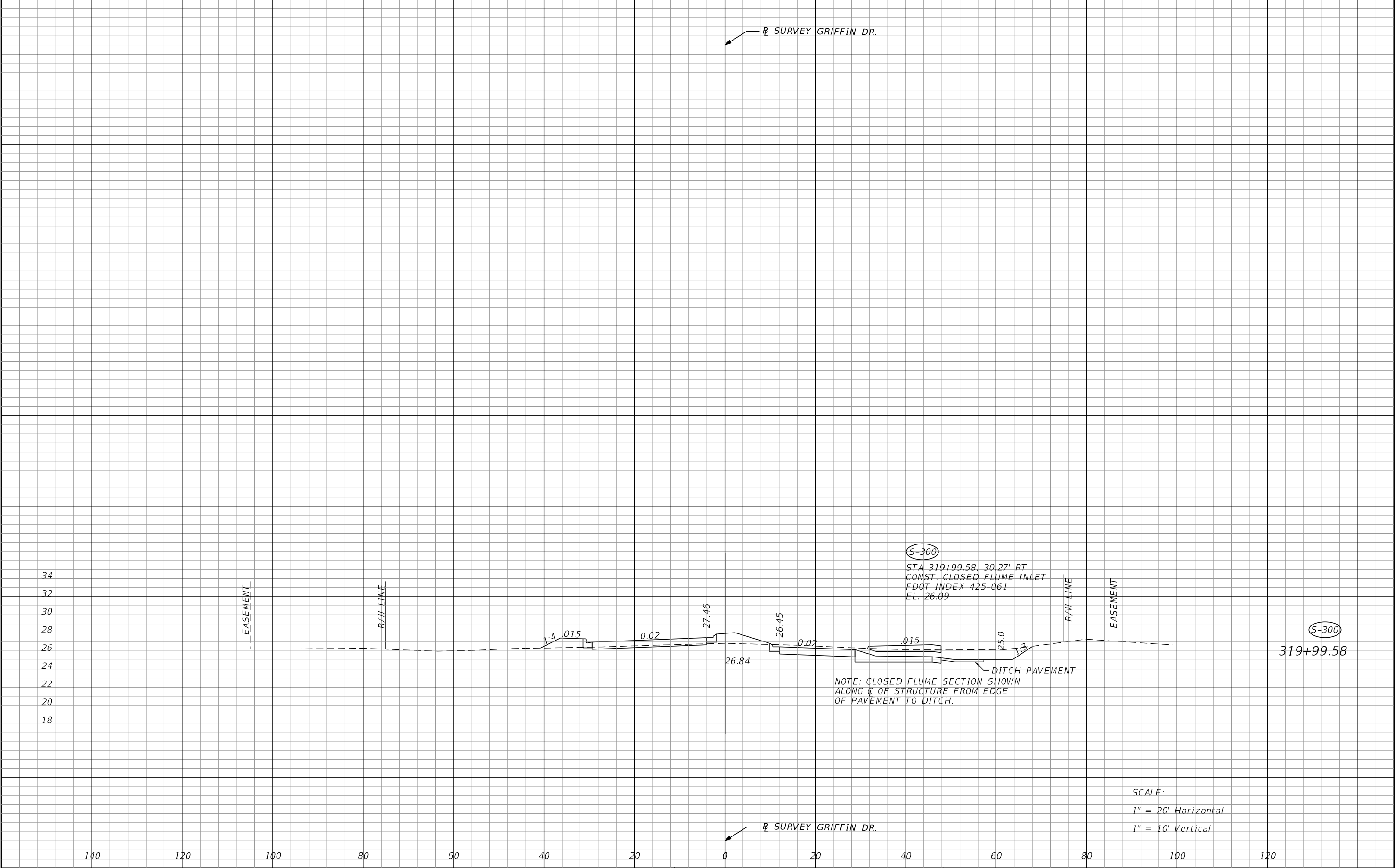
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.






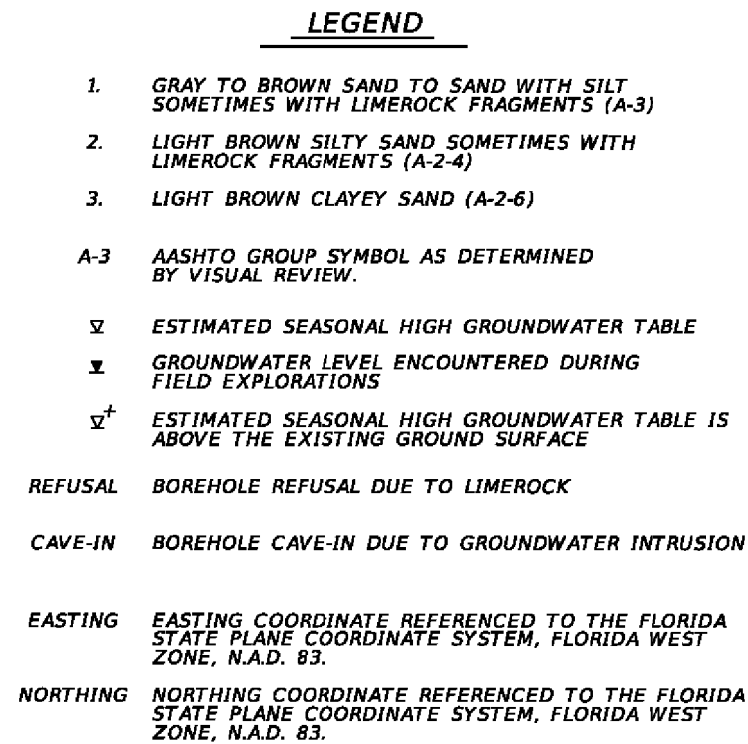
REVISIONS				CHRISTOPHER J. KNOX, P.E. P.E. LICENSE NUMBER 67350 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			DRAINAGE STRUCTURES (3)		200672	29


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



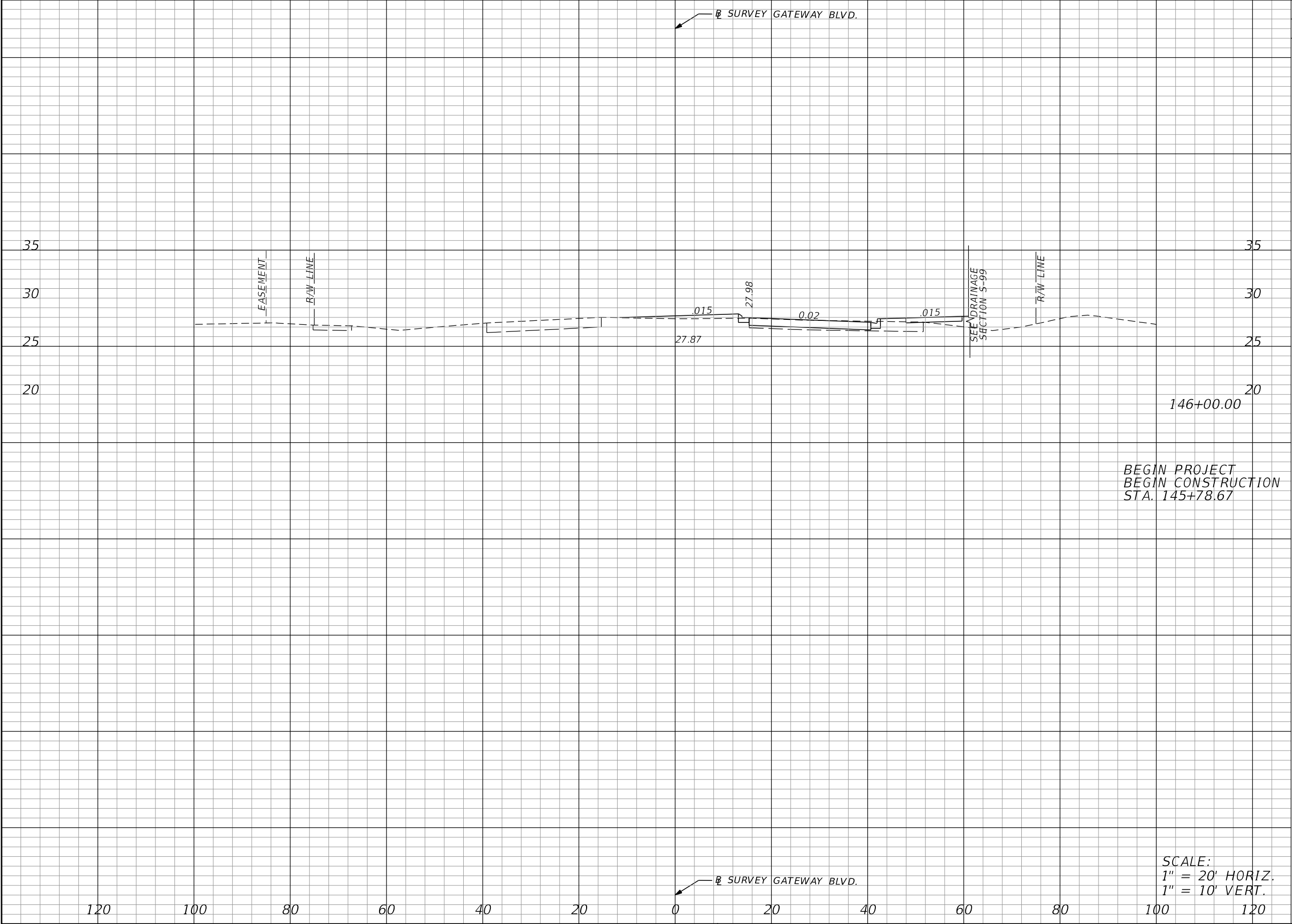
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DATE	DESCRIPTION	DATE	DESCRIPTION			DRAINAGE STRUCTURES (4)		200672	30

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




REVISIONS					GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROADWAY SOIL SURVEY	200672	31

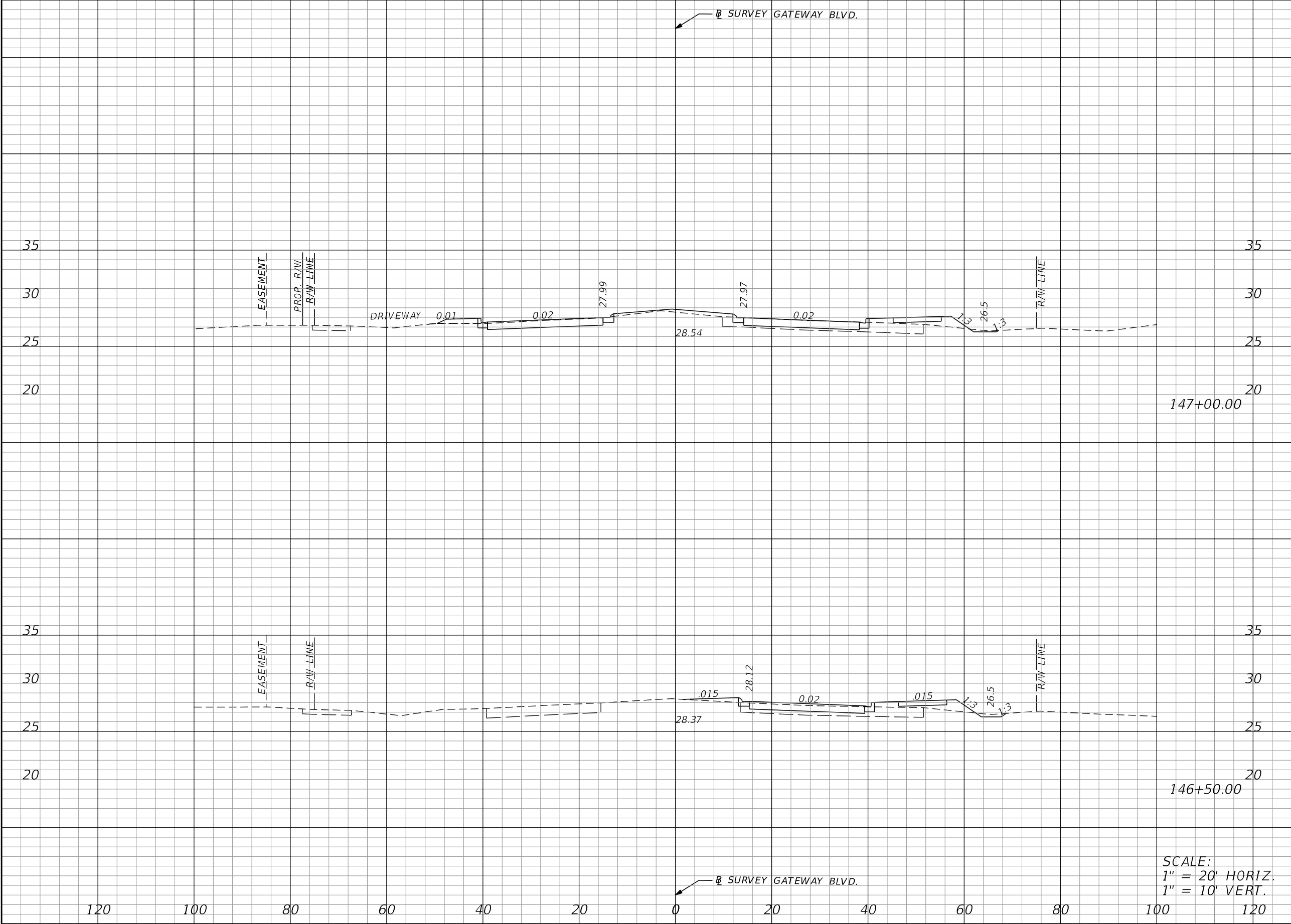
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




Regular		Exc.		Embankment	
A	V	A	V	A	V
5	2	27	11		

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	 <div>Lee County Southwest Florida DEPARTMENT OF TRANSPORTATION</div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)	CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GATEWAY BOULEVARD)	200672	32

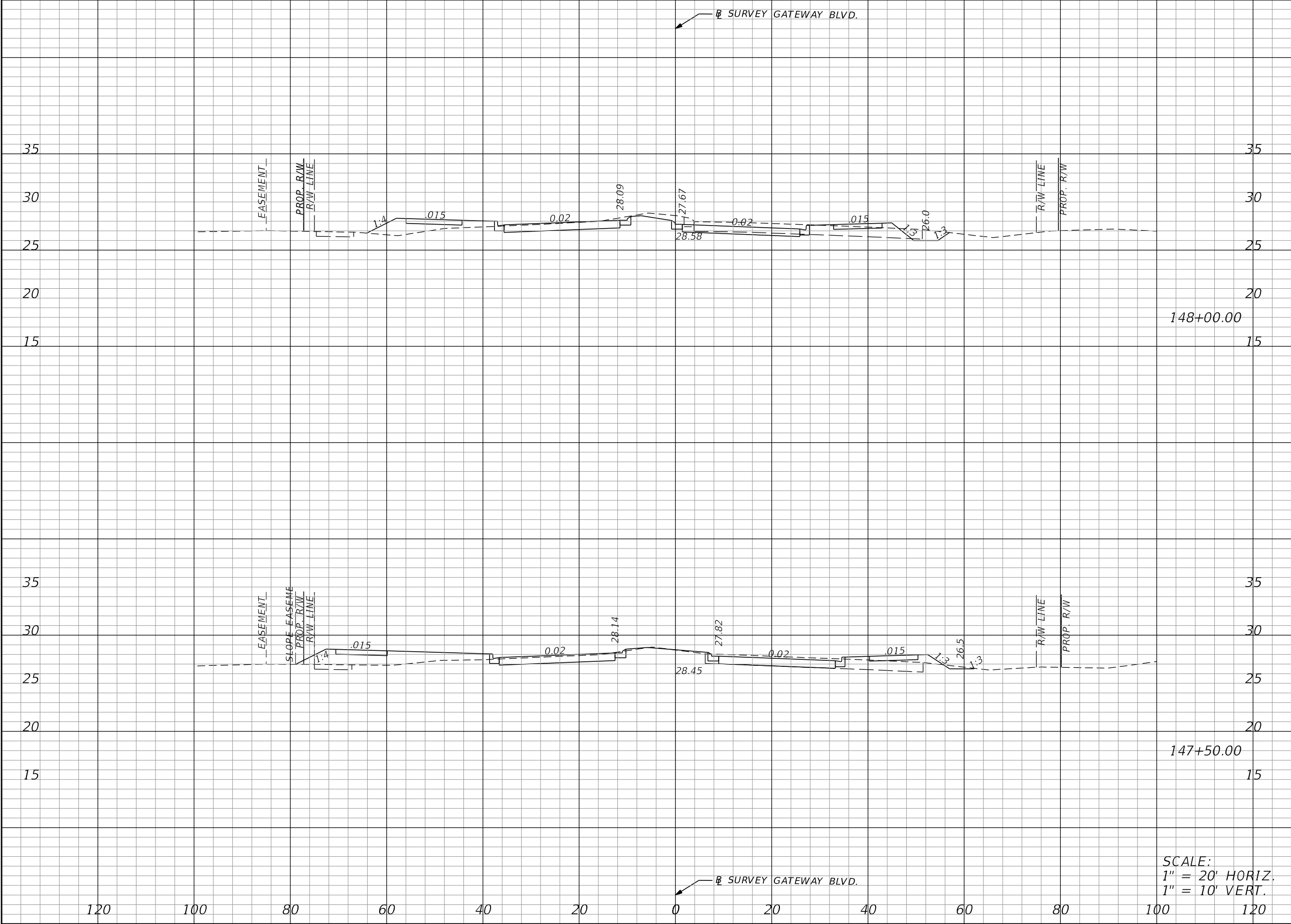
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.	Embankment	
A		V	A	V
40		42	36	61
5		9	30	53

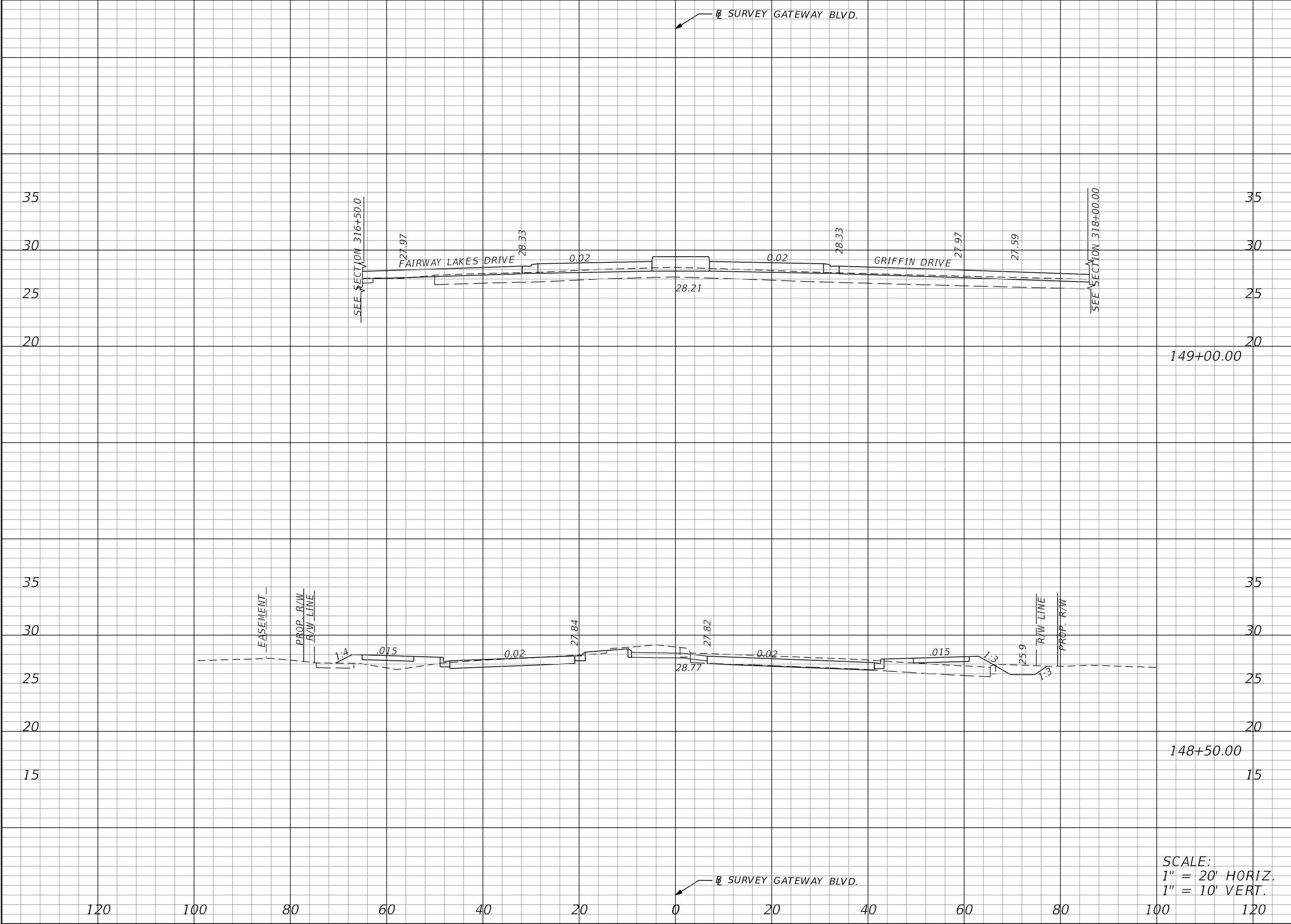
REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GATEWAY BOULEVARD)		200672	33

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




Regular		Exc.	Embankment	
A	V	A	V	
77	108	45	128	
40	74	93	119	

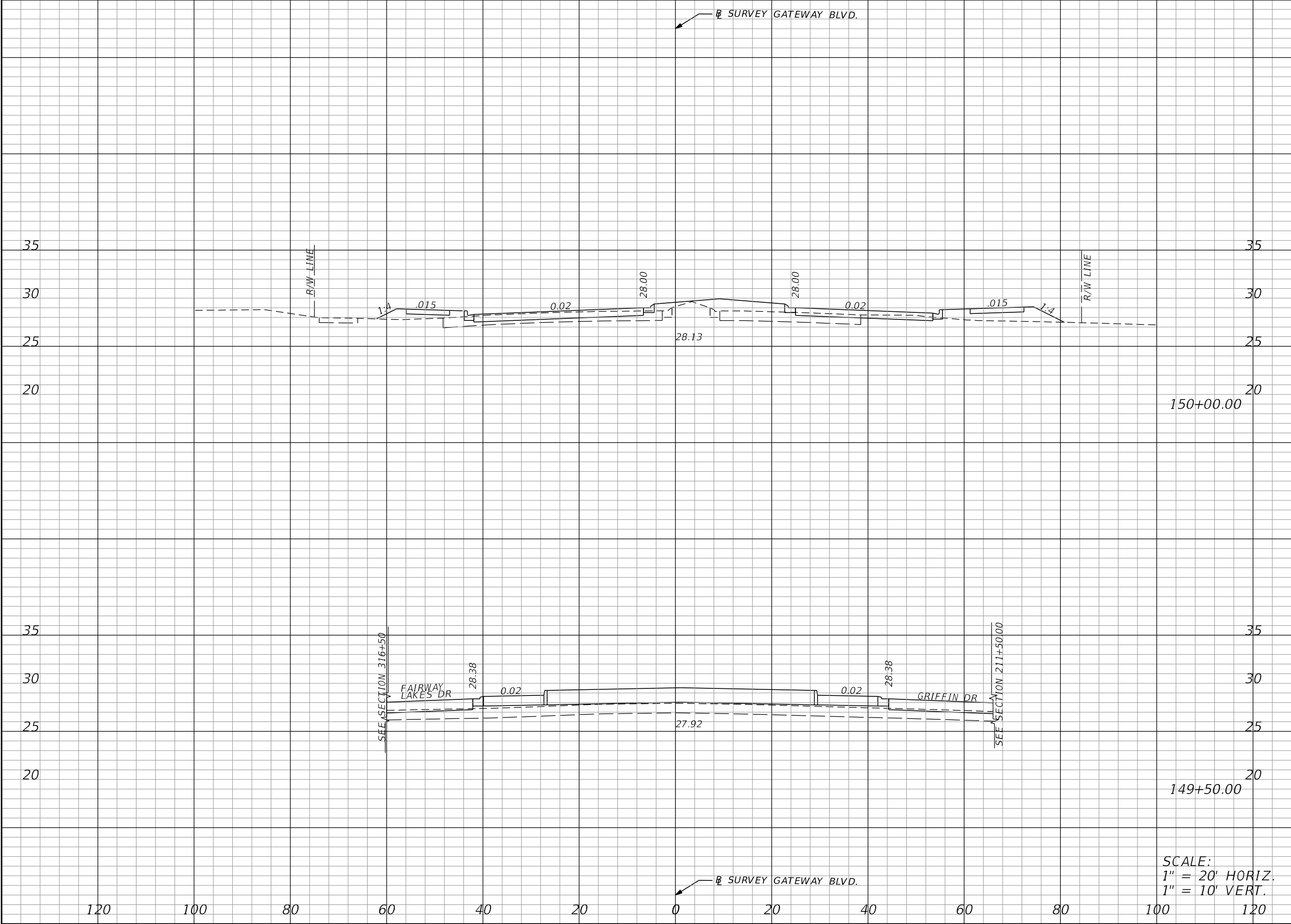
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.	Embankment	
A		V	A	V
0		73	0	48
79		144	52	90

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GATEWAY BOULEVARD)		200672	35

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



Regular		Exc.	Embankment	
A		V	A	V
13		12	67	62
0		0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

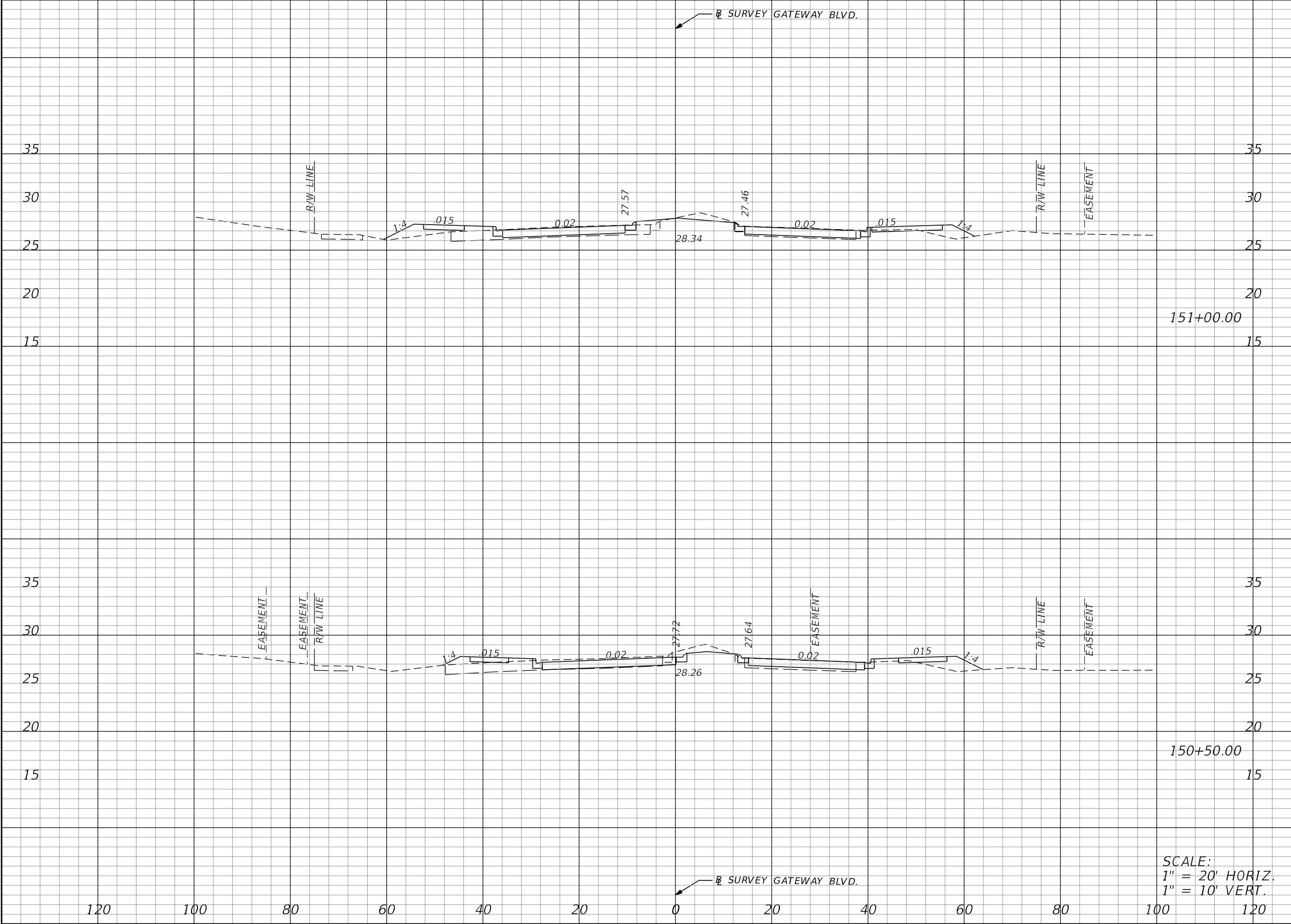


GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNABOUT)	
CROSS SECTIONS (GATEWAY BOULEVARD)	


CIP NO.	SHT. NO.
200672	36

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



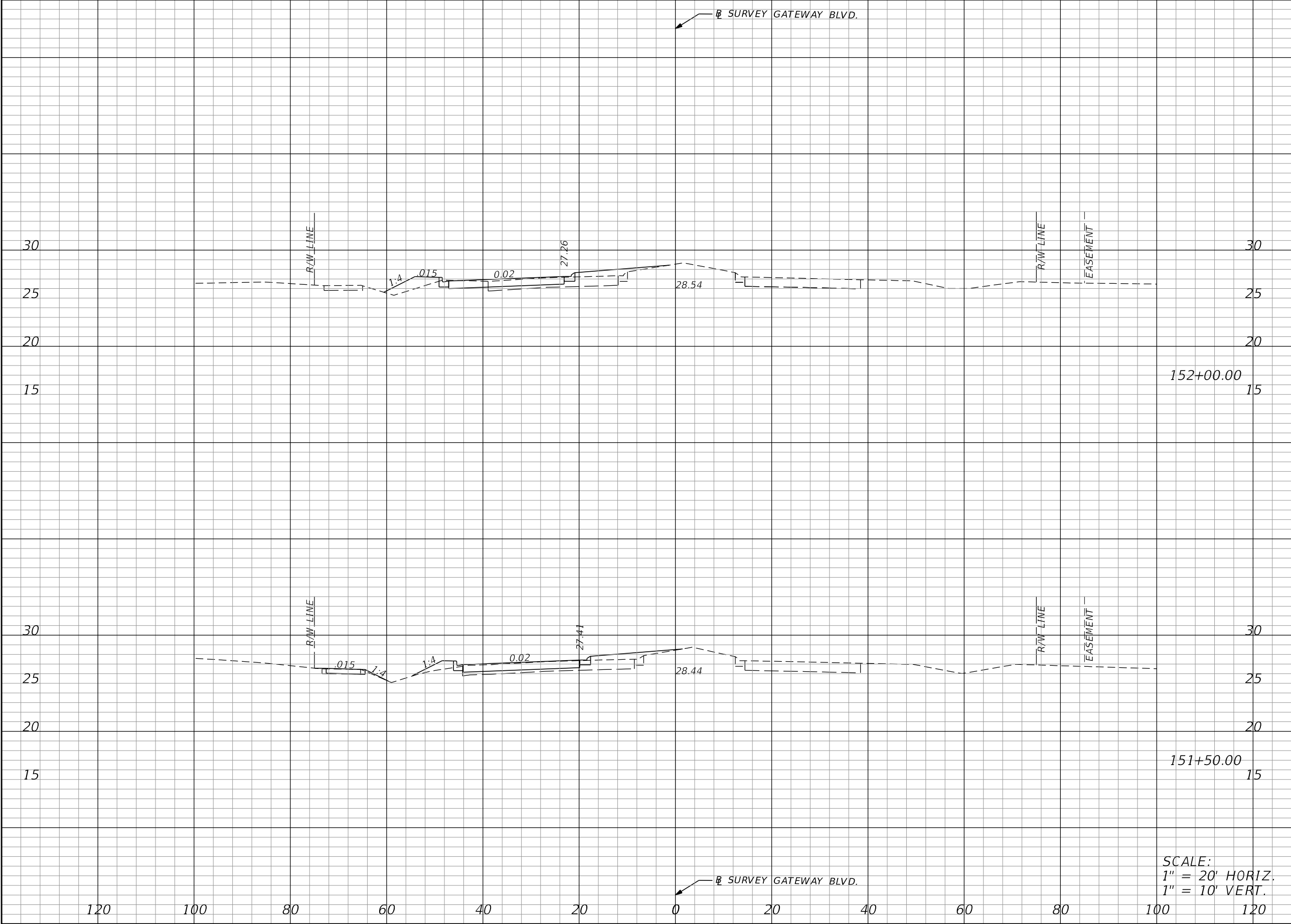


Regular		Exc.	Embankment	
A	V	A	V	
17	38	32	59	
24	35	33	93	

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GATEWAY BOULEVARD)		200672	37

SCALE:  
1" = 20' HORIZ.  
1" = 10' VERT.

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



Regular	Exc.	Embankment	
		A	V
15	16	35	55
24	35	33	93

REVISIONS	
DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915

GATEWAY BOULEVARD AT GRIFFIN DRIVE  
INTERSECTION CONTROL (ROUNDBOUT)

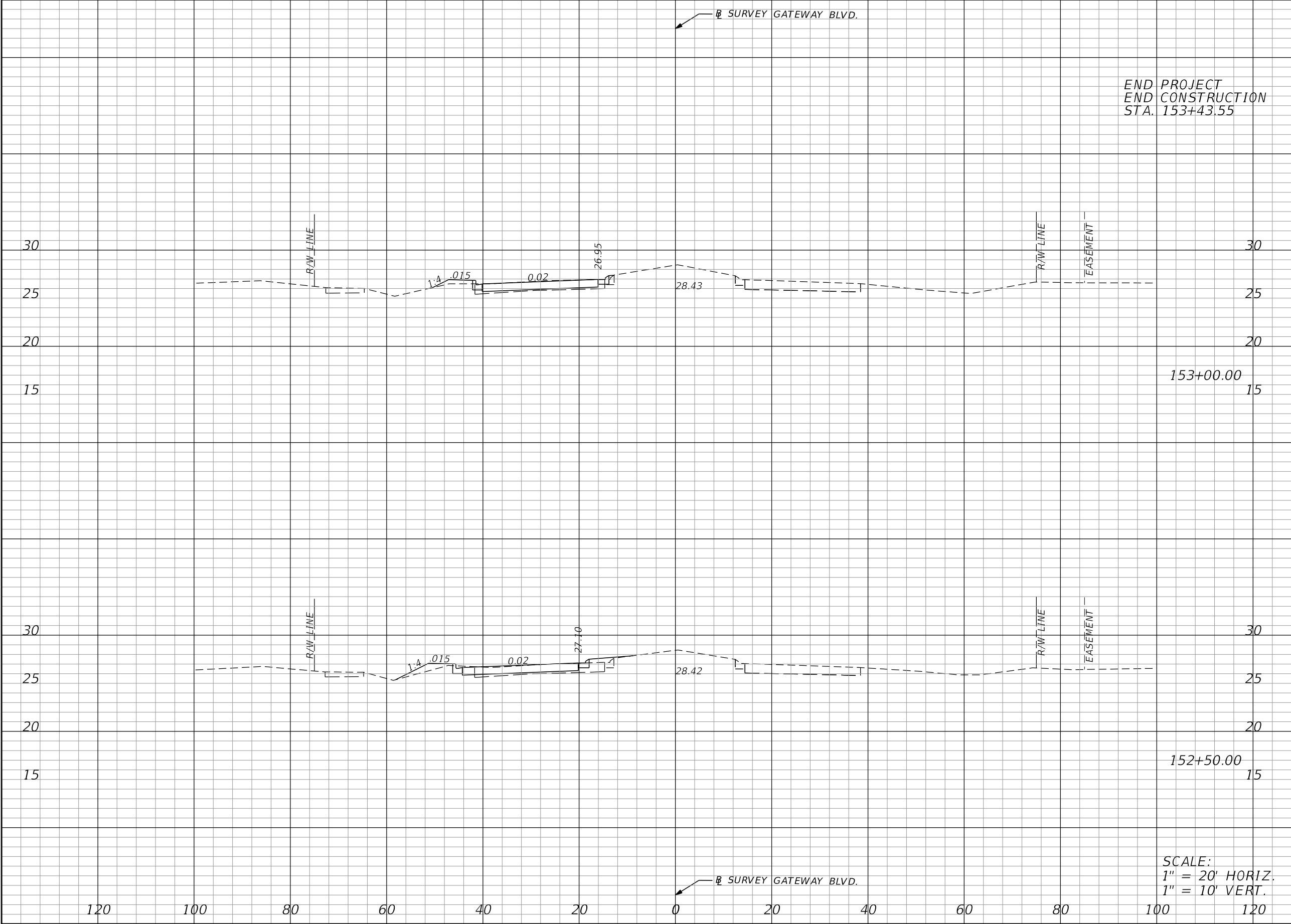
**CROSS SECTIONS**  
**(GATEWAY BOULEVARD)**

CIP NO.	SHT. NO.
200672	38


SCALE:  
1" = 20' HORIZ.  
1" = 10' VERT.

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

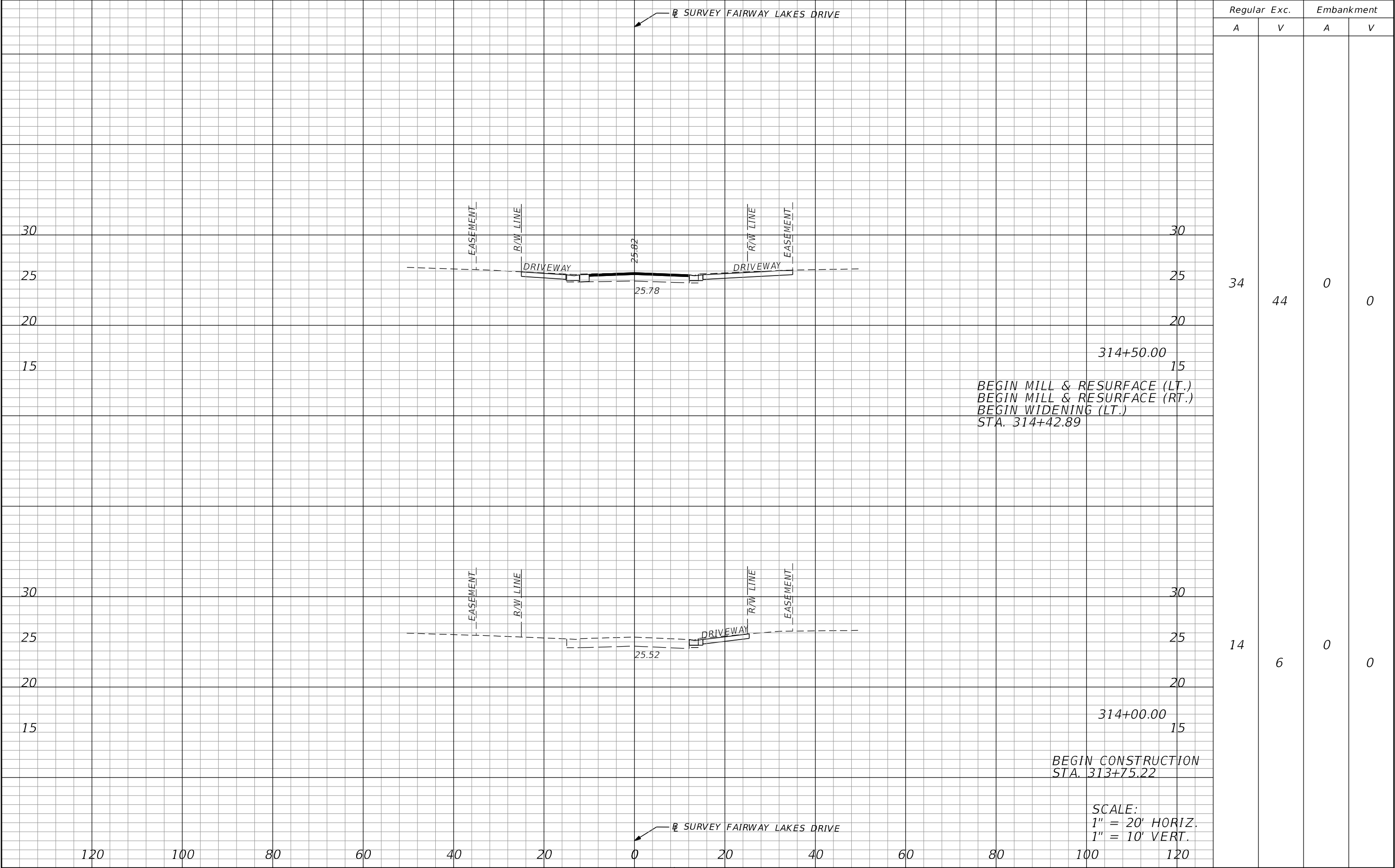
### 1/11/2021 9:00:29 AM Rdxsrd.shg J:\CR044\CR044002.02\ms\roadway\RDXSIRD01.dgn




Regular	Exc.	Embankment	
		A	V
1	8	6	18
8	21	14	45

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	 <div>Lee County Southwest Florida DEPARTMENT OF TRANSPORTATION</div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GATEWAY BOULEVARD)		200672	39

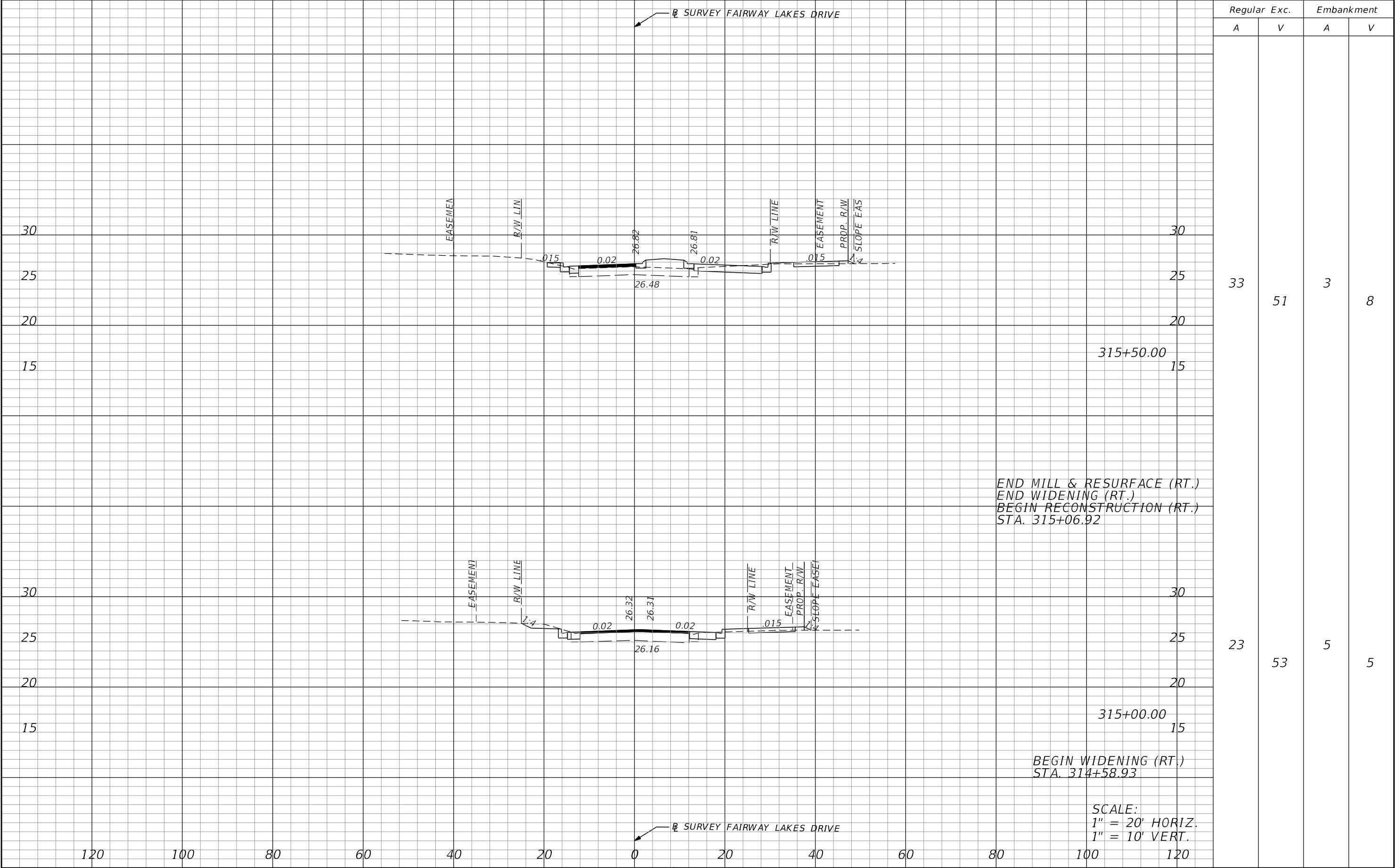
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



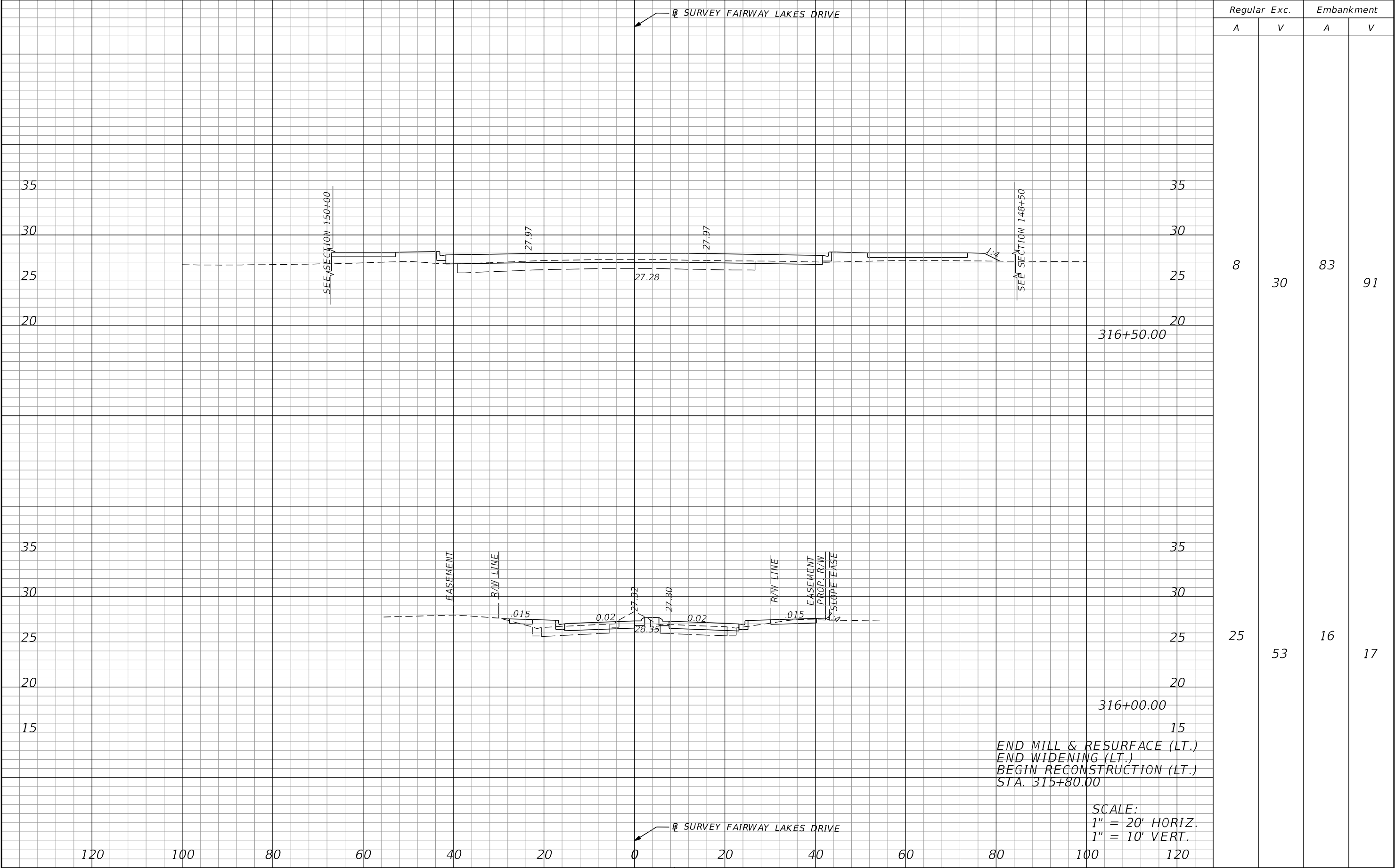
Regular		Exc.	Embankment	
A	V	A	V	
34	44	0	0	
14	6	0	0	

REVISIONS				<div>JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915</div>	<div><b>Lee County</b> <i>Southwest Florida</i> DEPARTMENT OF TRANSPORTATION</div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (FAIRWAY LAKES DRIVE)		200672	40


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



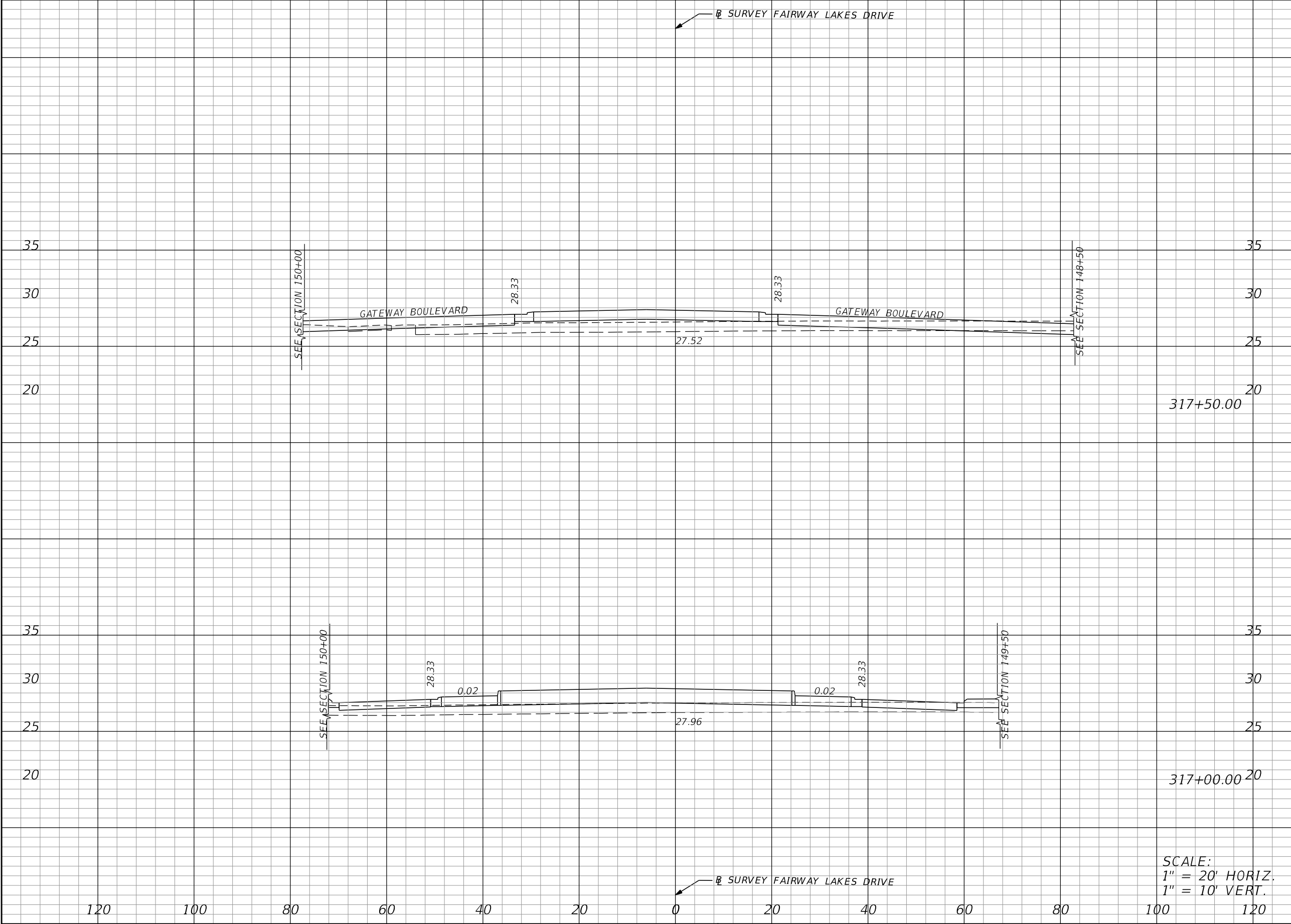
Regular		Exc.	Embankment	
A	V	A	V	
33	51	3	8	
23	53	5	5	




Regular		Exc.	Embankment	
A		V	A	V
8		30	83	91
25		53	16	17

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (FAIRWAY LAKES DRIVE)		200672	42

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

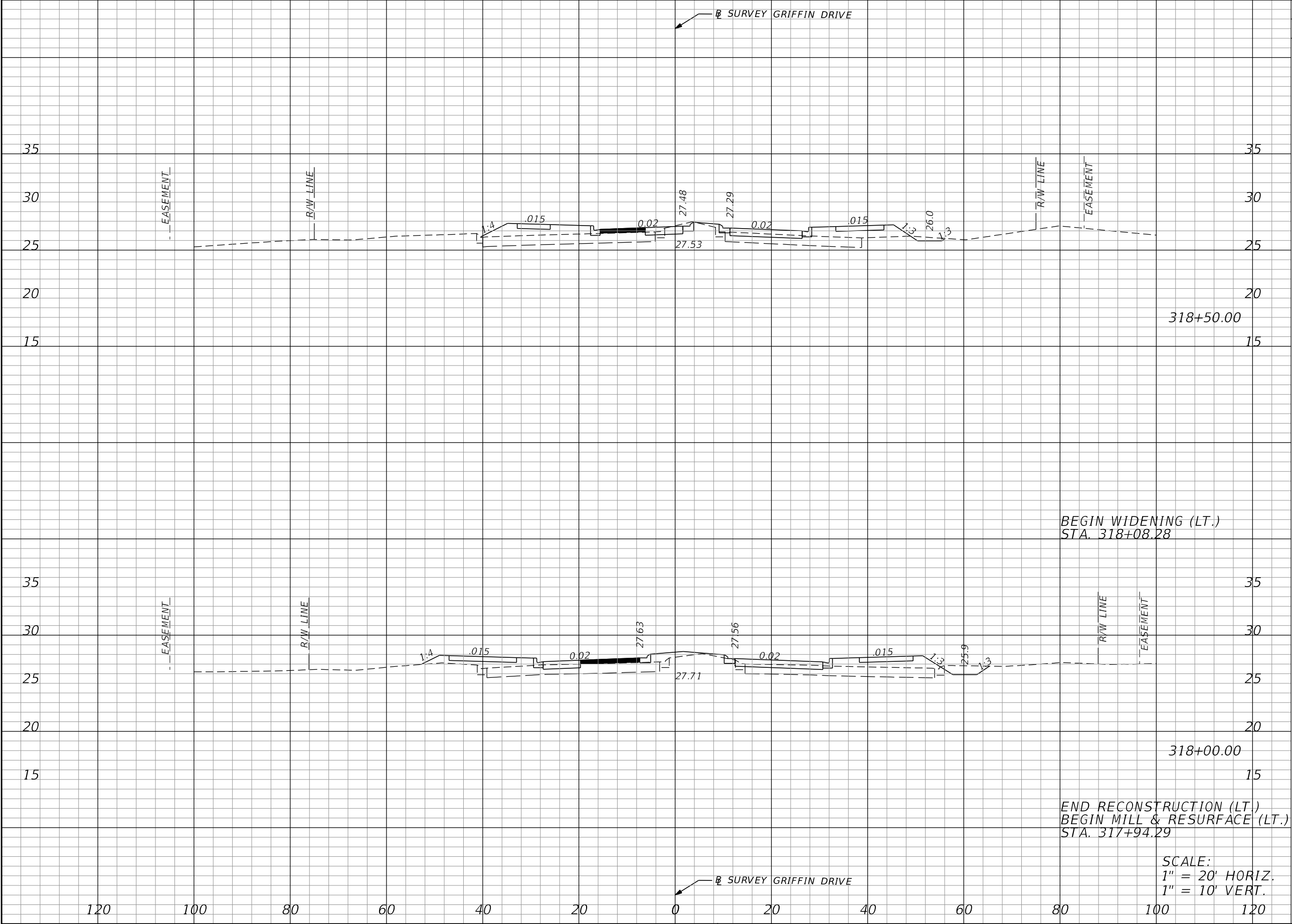


Regular		Exc.	Embankment	
A	V	A	V	
23	21	19	18	
0	7	0	77	

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (FAIRWAY LAKES DRIVE)		200672	43

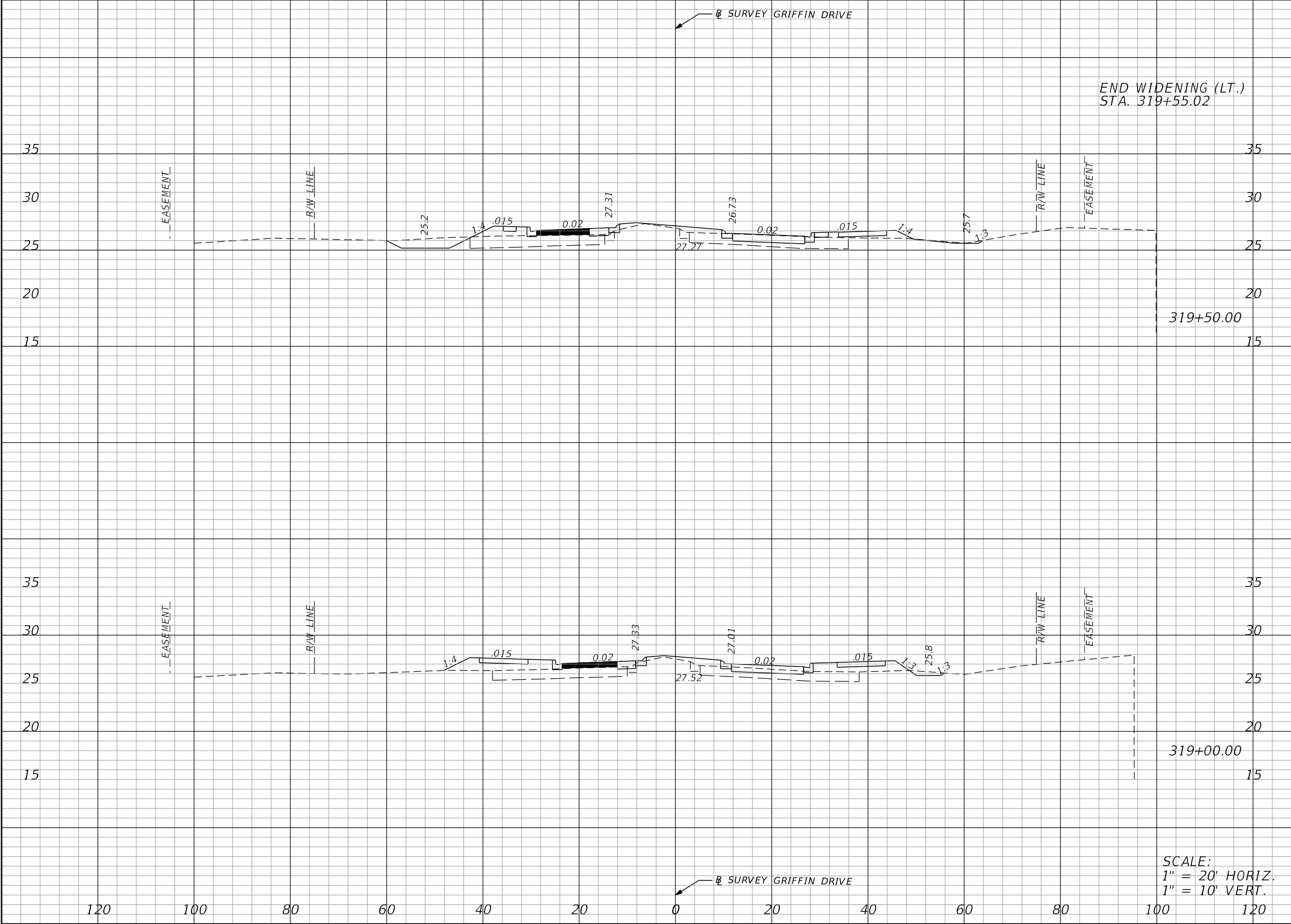
SCALE:  
1" = 20' HORIZ.  
1" = 10' VERT.

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




Regular		Exc.	Embankment	
A		V	A	V
15		29	74	135
16		36	72	84

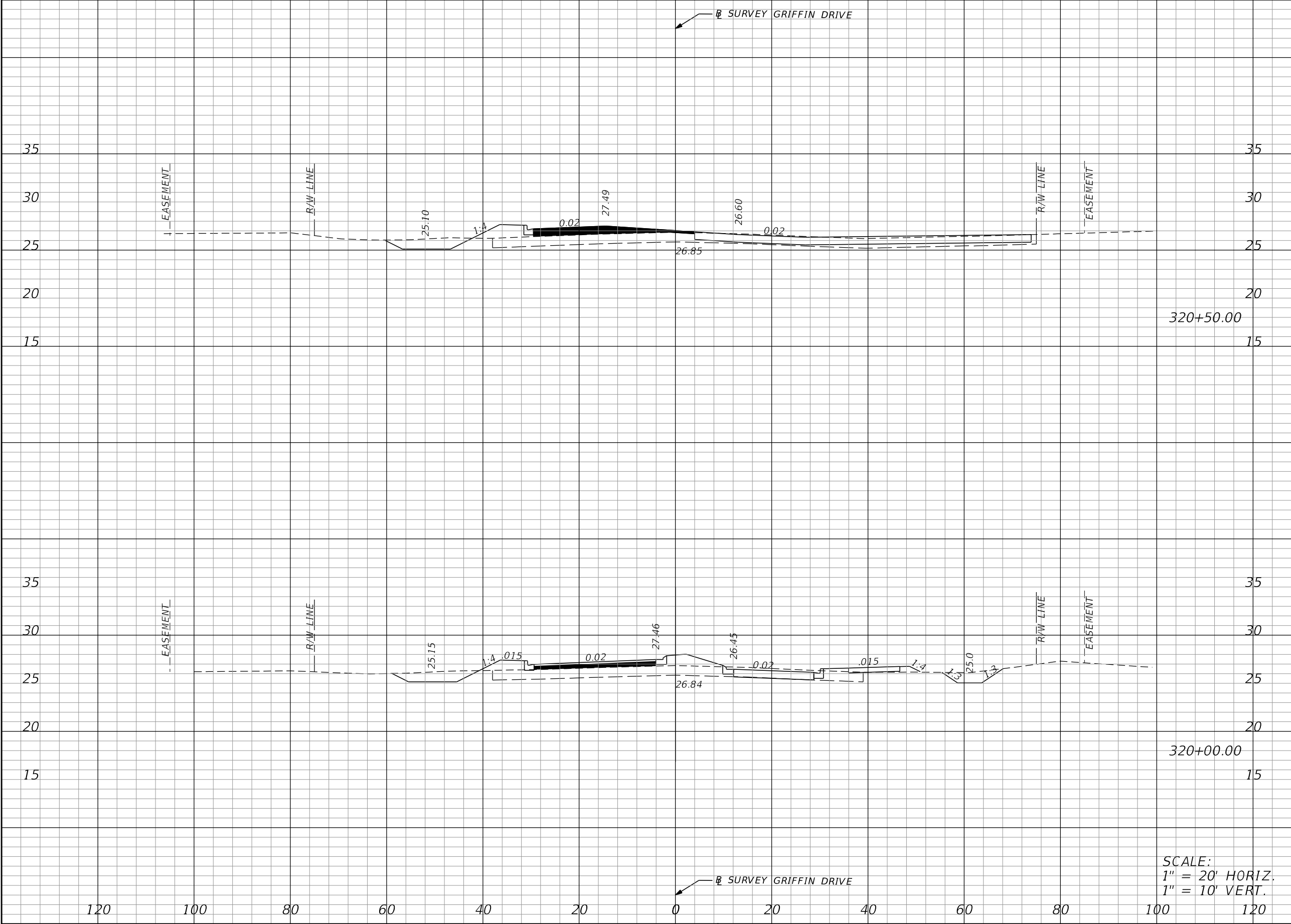





Regular		Exc.	Embankment	
A		V	A	V
30		33	33	103
6		19	78	141

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GRIFFIN DRIVE)		200672	45

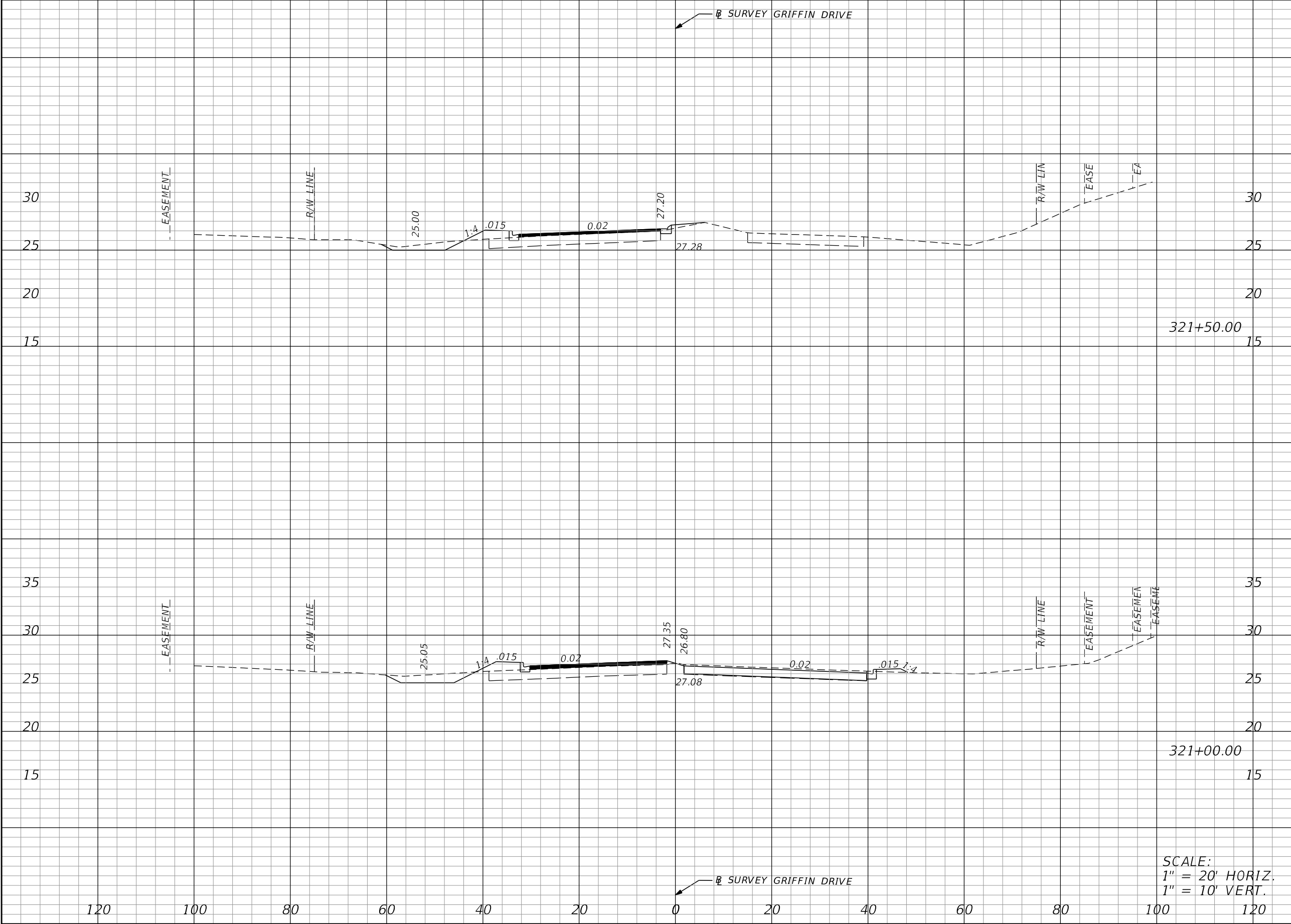
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Regular		Exc.	Embankment	
A	V	A	V	
30	73	22	56	
49	73	38	66	

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GRIFFIN DRIVE)		200672	46

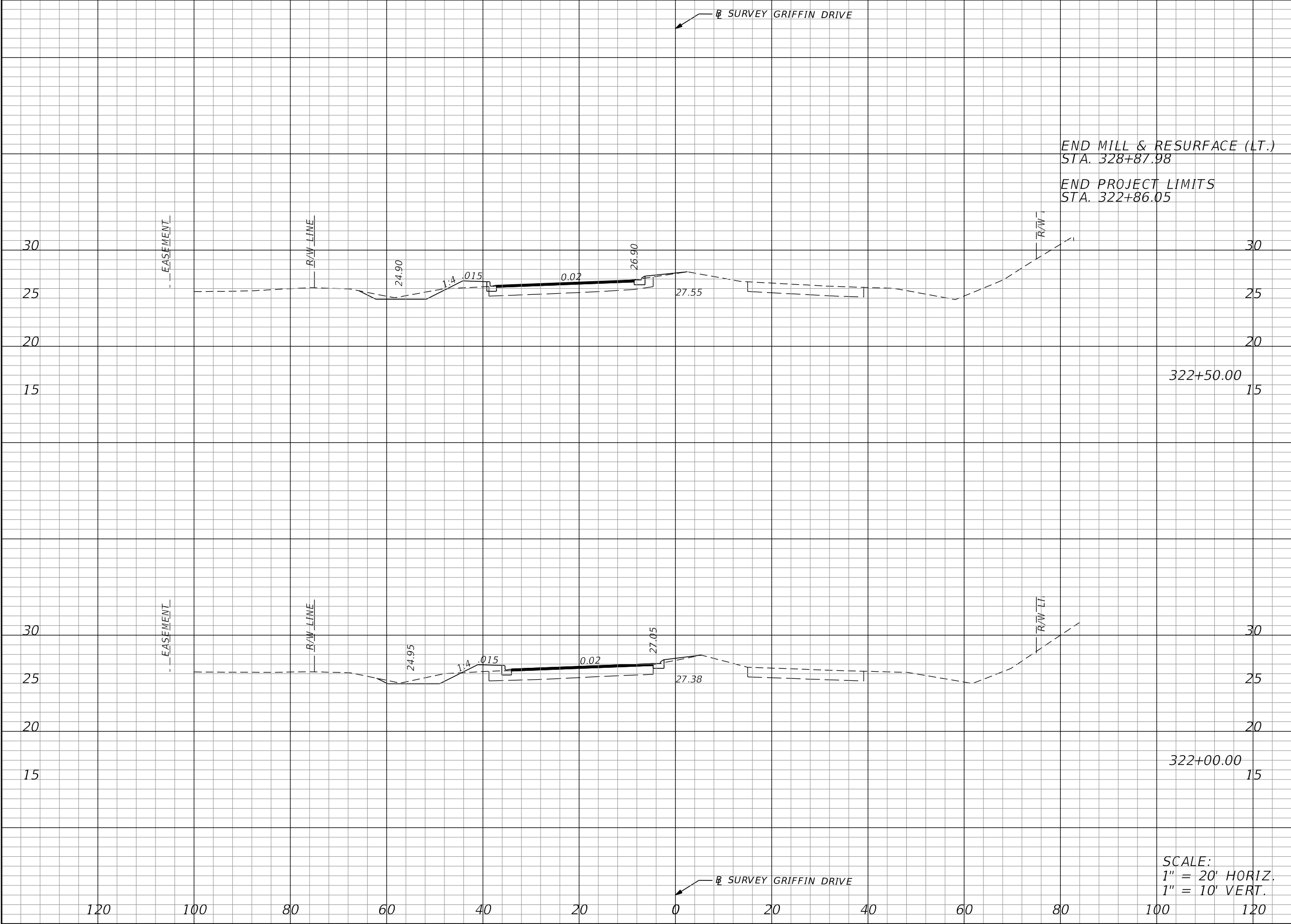
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.	Embankment	
A	V	A	V	
18	43	15	29	
28	54	16	35	

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		CIP NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			CROSS SECTIONS (GRIFFIN DRIVE)			
									200672

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Regular		Exc.	Embankment	
A		V	A	V
14		29	10	20
17		32	11	25

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759  
CERTIFICATE OF AUTHORIZATION 29915



GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	
CROSS SECTIONS (GRIFFIN DRIVE)	

CIP NO.	SHT. NO.
200672	48

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I. SITE DESCRIPTION:

(1) NATURE OF CONSTRUCTION ACTIVITY  
THE PROPOSED IMPROVEMENTS TO THE INTERSECTION OF GATEWAY BLVD AND GRIFFIN DR IS IN LEE COUNTY. LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) PROPOSES THE CONSTRUCTION OF A ROUNDABOUT. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SWALES, SIDEWALK, UNDERGROUND STORM DRAIN SYSTEMS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM SOUTH OF GRIFFIN DR TO NORTH OF GRIFFIN DR, A DISTANCE OF APPROXIMATELY 750 FEET.

(2) INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:  
(A) IN THE CONTRACTOR'S SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN, PREPARE A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.  
(B) MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.  
(C) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA EROSION AND SEDIMENTCONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL) LATEST EDITION.  
(D) DETERMINE IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.

(3) LIST OF INTENDED ACTIVITIES  
(A) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.  
(B) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.  
(C) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.  
(D) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.  
(E) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.  
(F) PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.

(4) PROJECT AREAS:  
THE ESTIMATED TOTAL PROJECT AREA IS 3.8 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 3.8 ACRES.

(5) RUNOFF COEFFICIENTS  
BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR:  
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35  
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95  
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUNOFF COEFFICIENT:  
BEFORE: Cw(B) = 0.55  
DURING: Cw(D) = 0.55 TO 0.75  
AFTER: Cw(A) = 0.75

THE RUNOFF COEFFICIENT DURING CONSTRUCTION, CW (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:  
  
THE SOIL WITHIN THE GATEWAY BLVD AND GRIFFIN DR INTERSECTION. A ROADWAY SOIL SURVEY IS CONTAINED IN THE CONSTRUCTION PLANS.

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
119-MALABAR FINE SAND(1.5%)	A/E/Bw/Btg/Cg	0.4'
120-MALABAR FINE SAND, PONDED(0.2%)	A/E/Bw/Btg/Cg	0.0'
125-OLDSMAR SAND(2.3%)	A/E/Bh/Btg	0.5'
131-POMPANO FINE SAND(0.6%)	A/C	0.4'

REFERENCE: USDA SOIL SURVEY OF LEE COUNTY FLORIDA

(7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:  
(A) SITE MAP: INCLUDED WITH THESE SHEETS.  
(B) DRAINAGE MAPS OR MAPS WITH APPROPRIATE CONTOURS: INCLUDED WITH THESE SHEETS

(8) RECEIVING WATERS:  
GATEWAY BLVD AND GRIFFIN DR INTERSECTION. THESE FACILITIES DISCHARGE TO WATERS LISTED ON THE EPA APPROVED FDEP VERIFIED LIST OR ADOPTED TMDL FOR IMPAIRMENT DUE TO TOAL SUSPENDED SOLID, TURBIDITY, NUTRIENTS, DISSOLVED OXYGEN OR FECAL COLIFORM. (FOR LIST, GO TO:  
HTTP://WWW.DEP.STATE.FL.US/WATER/WATERSHEDS/ASSESSMENTS/A-LIST.HTM) FOR IMPAIRMENT DUE TO TOTAL SUSPENDED SOLIDS.

(9) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

RECEIVING WATER BODY	DRAINAGE AREA (AC)	LATITUDE	LONGITUDE
(A) POND	19.0	N27° 49' 10"	W82° 15' 57"

(10) WETLAND AND/OR SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE APPROVED PERMITS FOR THE PROJECT.

(11) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

(A) THE PROPOSED ROADWAY IMPROVEMENTS SHALL NOT MODIFY OR AFFECT THE EXISTING OFFSITE FLOW PATTERNS UNLESS SPECIFICALLY AUTHORIZED BY THE PERMITS.

(B) OFFSITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.

(C) LOCATION OF PERMANENT CONTROLS: THE CONVEYANCE SWALES AND STORMWATER PONDS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE ROADWAY PLANS AND POND DETAIL SHEETS.

(D) STORMWATER RUNOFF SHALL BE CONVEYED TO EITHER TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR TO PERMANENT STORMWATER MANAGEMENT FACILITIES (TREATMENT AND ATTENUATION PONDS). THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY.

(E) PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.


(F) EROSION CONTROL DEVICES SHALL BE LOCATED A MINIMUM OF 15 FEET FROM CETNERLINE OF NEAREST RAILROAD TRACKS.


(12) STATE AND FEDERAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES: NPDES, SWFWMD ERP, USACOE

II. CONTROLS:  
SEDIMENT AND EROSION CONTROLS

(1) WATER QUALITY MONITORING:  
(A) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.  
(B) MONITOR ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).  
(C) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIROMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).  
(D) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.

(2) STABILIZATION PRACTICES:  
(A) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROL PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL), LATEST EDITION.  
(B) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.  
(C) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.

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<p>(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL</p> <p>(A) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)</p> <p>PURPOSE:TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.</p> <p>(1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.</p> <p>(2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.</p> <p>(3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&amp;SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.</p> <p>(B) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)</p> <p>PURPOSE:TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.</p> <p>(1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK DAMS.</p> <p>(2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.</p> <p>(C) SEDIMENT BASIN (CONTAINMENT SYSTEM)</p> <p>PURPOSE:A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.</p> <p>(1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLE WILL DICTATE WHETHER THE SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.</p> <p>(2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS. THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.</p> <p>(D) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)</p> <p>PURPOSE:SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.</p> <p>(1) THESE CONSTUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.</p> <p>(2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOWPOINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.</p> <p>(3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.</p> <p>(E) FLOATING TURBIDITY BARRIER</p> <p>PURPOSE:USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.</p> <p>(1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.</p> <p>(2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (&lt;3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.</p> <p>(3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION</p> <p>(4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.</p> <p>(5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.</p> <p>(6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS GREATER THAN 5.0'.</p> <p>(F) STAKED TURBIDITY BARRIER</p> <p>PURPOSE:THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.</p> <p>(1) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.</p> <p>(2) MAXIMUM DEPTH OF PANEL IS 3'-8".</p> <p>(3) POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE EMBEDDED IN THE GROUND.</p> <p>(G) INLET PROTECTION SYSTEM</p> <p>PURPOSE:ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.</p> <p>(1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.</p> <p>(2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.</p> <p>(3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.</p> <p>(H) SOIL TRACKING PREVENTION DEVICE</p> <p>PURPOSE:TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.</p> <p>(1) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.</p> <p>(2) USE ADDITIONAL DEVICES FOR CONSRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.</p> <p>(3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.</p> <p>(4) PROVIDING SOIL TRACKING PREVENTION DEVICES AT ALL INGRESS/EGRESS LOCATIONS.</p> <p>(4) CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL</p> <p>(A) CHEMICAL TREATMENT - POLYACRYLAMIDES (PAM AND PAM BLENDS)</p> <p>PURPOSE:REDUCE SOIL EROSION THROUGH SOIL BINDING, USED AS A WATER TREATMENT ADDITIVE TO REMOVE SUSPENDED SOLIDS FROM RUNOFF, PROVIDES APPROPRIATE MEDIUM FOR GROWTH OF VEGETATION FOR STABILIZATION AND INCREASES INFILTRATION BY INCREASING SIZE OF SOIL PARTICLE.</p> <p>(1) AS AN ADDITIONAL EROSION CONTROL MEASURE, CHEMICAL ADHESIVE STABILIZER (POLYACRYLAMIDE) CAN BE USED WHERE SOIL RUNOFF WILL DRAIN TO WETLANDS OR SURFACE WATERS. SUCH USAGE SHALL BE LIMITED TO AREAS WHERE VEHICLE TRAFFIC AND OTHER DISTURBANCES WILL NOT OCCUR FOR MORE THAN 7 DAYS. POLYACRYLAMIDE CAN BE APPLIED TO EXPOSED SOILS PRIOR TO PLACEMENT OF ARTIFICIAL COVERINGS AND ROLLED EROSION CONTROL PRODUCTS. POLYACRYLAMIDE SHALL BE USED TO STABILIZE SOIL STOCKPILES WHEN THE STOCKPILE WILL REMAIN UNDISTURBED FOR MORE THAN 7 DAYS. POLYACRYLAMIDE SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>(2) CAN BE USED ON DISTURBED SOILS. CAN BE USED IN CONJUNCTION WITH OTHER BMP'S TO ENHANCE PERFORMANCE. CAN BE APPLIED IN DISSOLVED FORM WITH WATER, CAN BE USED AS A DRY POWDER, CAN BE USED IN GRANULAR FORM OR MAY BE USED IN THE FORM OF FLOC LOGS.</p> <p>(3) HIGHER CONCENTRATIONS OF PAM'S DO NOT INCREASE THE EFFECTIVENESS OF THE PRODUCT.</p> <p>(4) ACTIVELY WORKED AREAS WILL REQUIRE REAPPLICATION TO REMAIN EFFECTIVE.</p> <p>(5) PAM SHOULD NOT BE USED WHERE THE IS A POTENTIAL FOR EQUIPMENT CLOGGING OR TOXICITY IS A CONCERN.</p> <p>(6) CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL WITHIN THE CSXT R/W ARE PROHIBITED. PROVIDE OTHER CONTROL METHODS FOR REVIEW AND APPROVAL BEFORE COMMENCING ANY APPLICABLE OPERATION WITHIN CSX R/W.</p> <p>(5) DEWATERING OPERATIONS (OPTIONAL - BASED ON PROJECT APPLICABILITY)</p> <p>DESCRIPTION:DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATERS OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATERS MUST BE REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED.THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND WATERS USED DURING CONSTRUCTION THAT MUST BE REMOVED FROM A WORK AREA.</p> <p>(A) ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONCERNED WITH THE PROTECTION OF WETLANDS FROM DRAWDOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE CAPACITY LIMITATIONS.</p>											
REVISIONS				CHRISTOPHER J. KNOX, P.E. P.E. LICENSE NUMBER 67350 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759				GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		COUNTY NO.	SHT. NO.
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(B) THREE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL WELLS AND WELL-POINT SYSTEMS.

(C) METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP'S AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, SAND MEDIA/PRESSURIZED BAGS AND CHEMICAL TREATMENTS.

(D) DEWATERING OPERATIONS WITHIN THE CSXT R/W ARE PROHIBITED. PROVIDE OTHER CONTROL METHODS FOR REVIEW AND APPROVAL BEFORE COMMENCING ANY APPLICABLE OPERATION WITHIN CSX R/W.

(6) OFFSITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

(A) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.

(B) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

(C) USING WATER TRUCKS DURING DUST GENERATING ACTIVITIES.

(7) NON-STORMWATER (INCLUDING SPILL REPORTING) PROVIDE THE FDOT WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT THE ENGINEER. ANY SPILL OCCURING WITHIN CSXT R/W, CONTACT THE CSXT PUBLIC SAFETY COORDINATION CENTER AT 800-232-0144 AND NOTIFY CSXT REPRESENTATIVE.

III. MAINTENANCE:

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

(1) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

(2) SOIL TRACKING PREVENTION DEVICES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

IV. INSPECTION:


(1) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

V. TRACKING AND REPORTING:

(1) SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

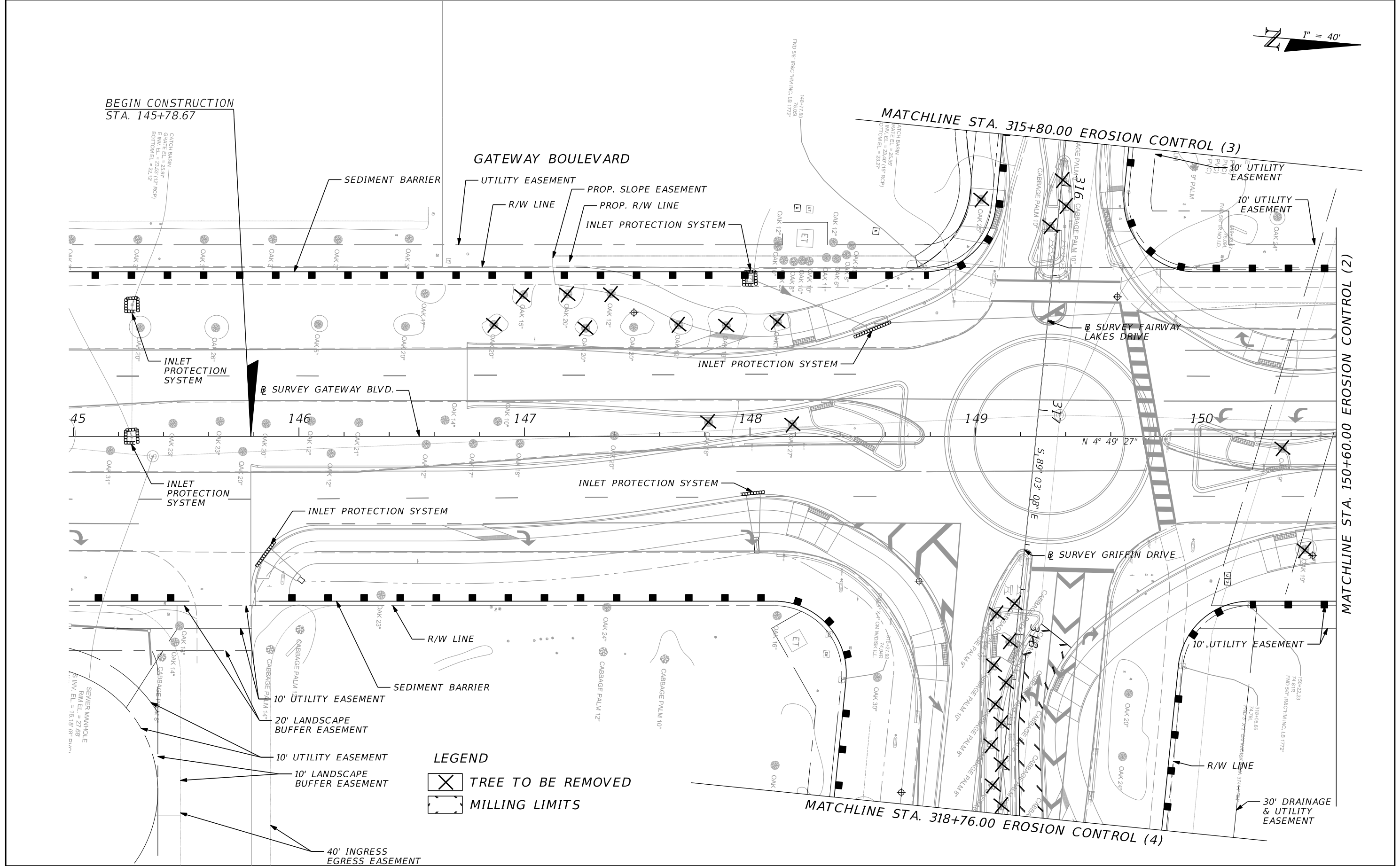
(2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES OR LUMP SUM COST OF THE PROJECT.

(3) USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

REVISIONS				<div>CHRISTOPHER J. KNOX, P.E. P.E. LICENSE NUMBER 67350 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759</div>	<div><div>Lee County Southwest Florida DEPARTMENT OF TRANSPORTATION</div></div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			<b>STORMWATER POLLUTION PREVENTION PLAN (3)</b>	0671	52

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





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759



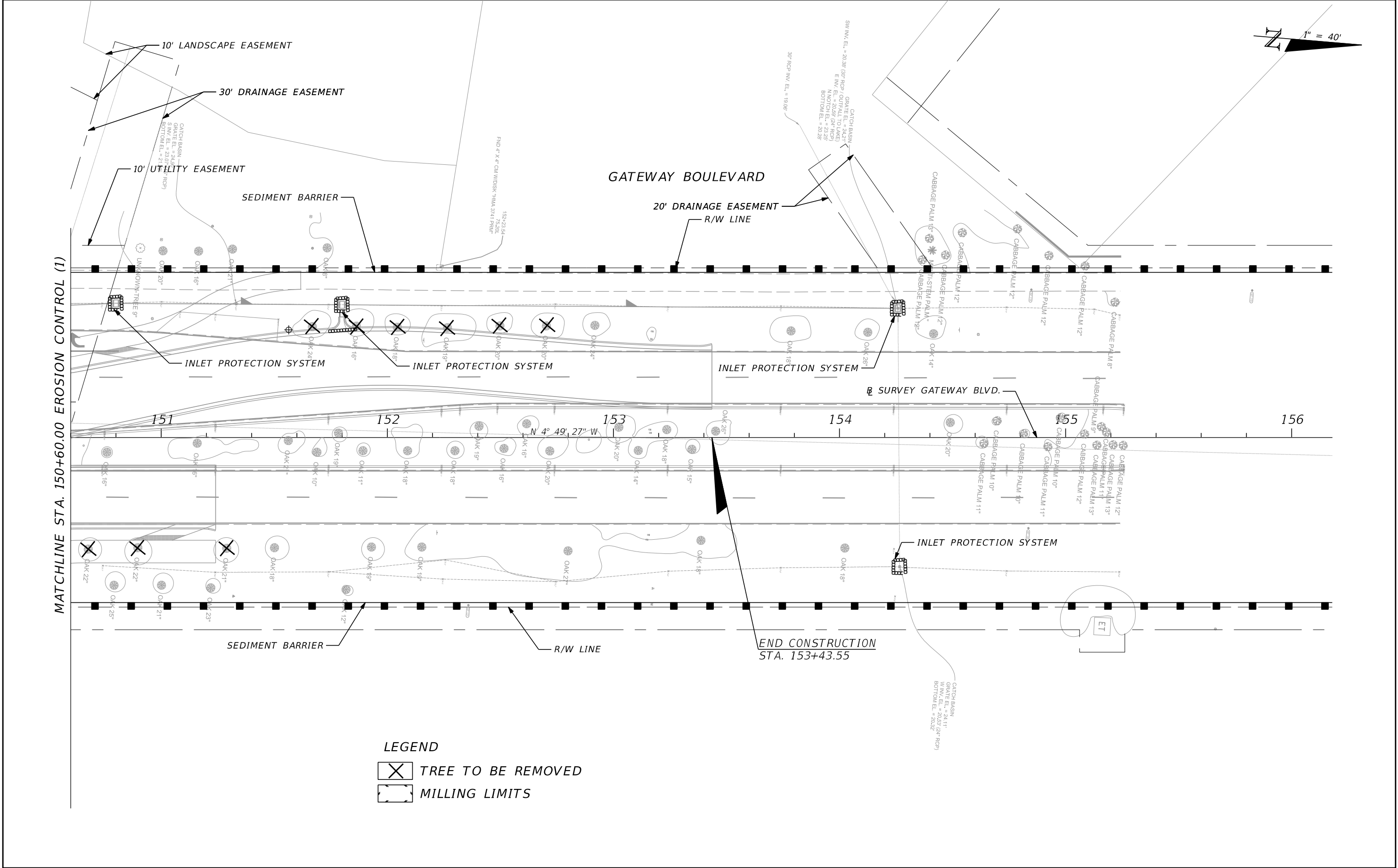
Lee County


Southwest Florida

DEPARTMENT OF TRANSPORTATION

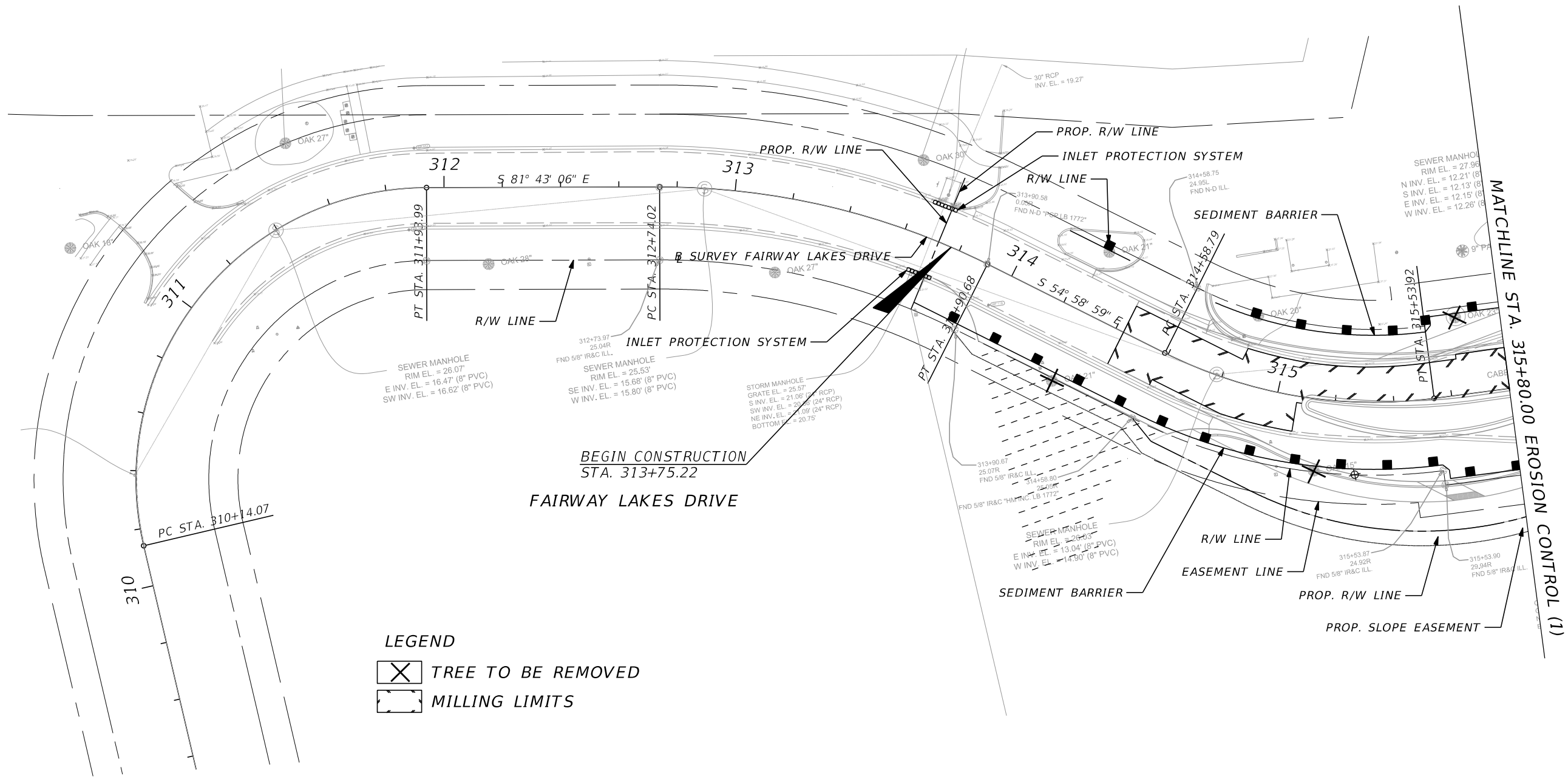
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GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
EROSION CONTROL (1)		200672	53




REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			EROSION CONTROL (2)		200672	54
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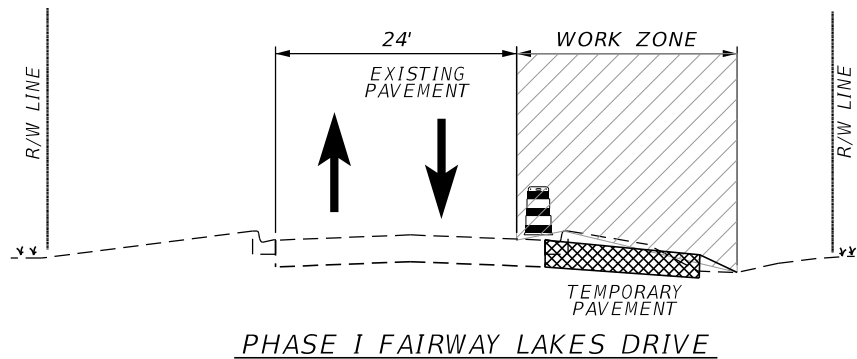
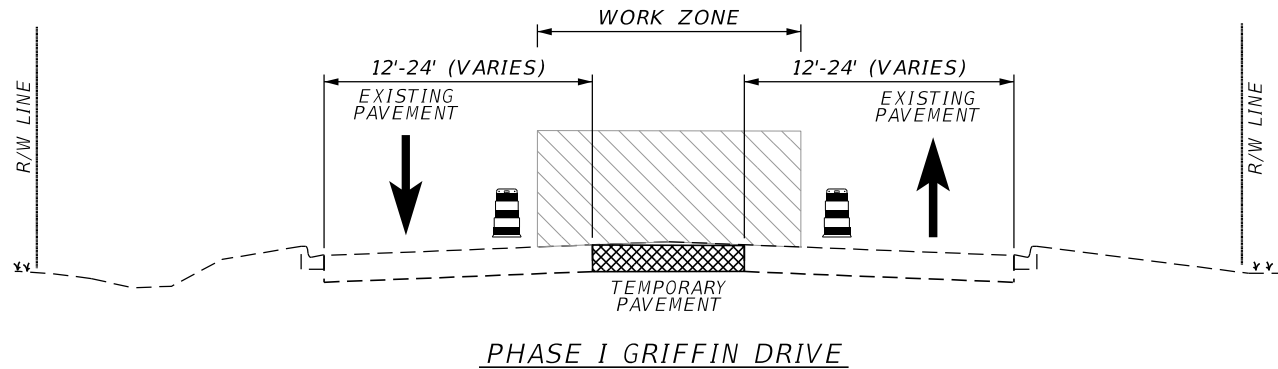
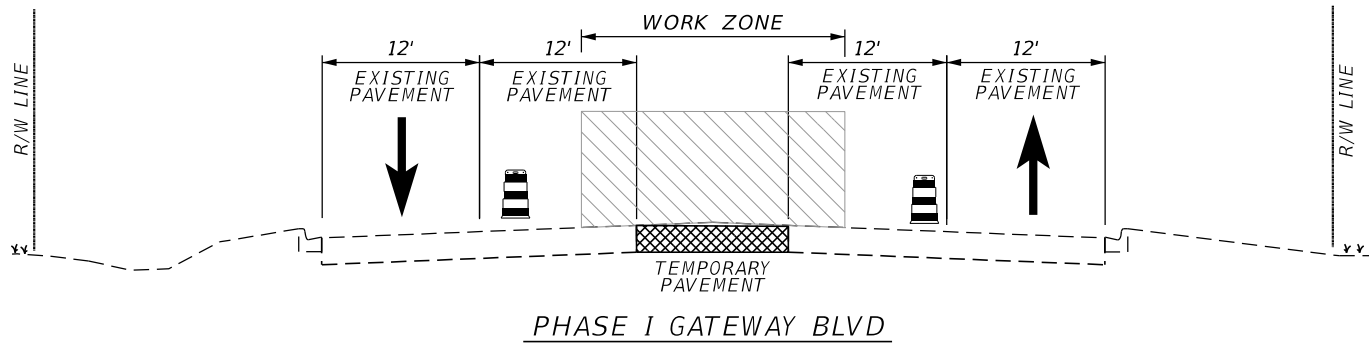
- LEGEND
- TREE TO BE REMOVED
  - MILLING LIMITS

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			EROSION CONTROL (3)		200672	55
						Wayne.Ponder 1/19/2021 11:54:42 AM J:\CR044\CR044002.02\ms\drainage\swpprd03.dgn			


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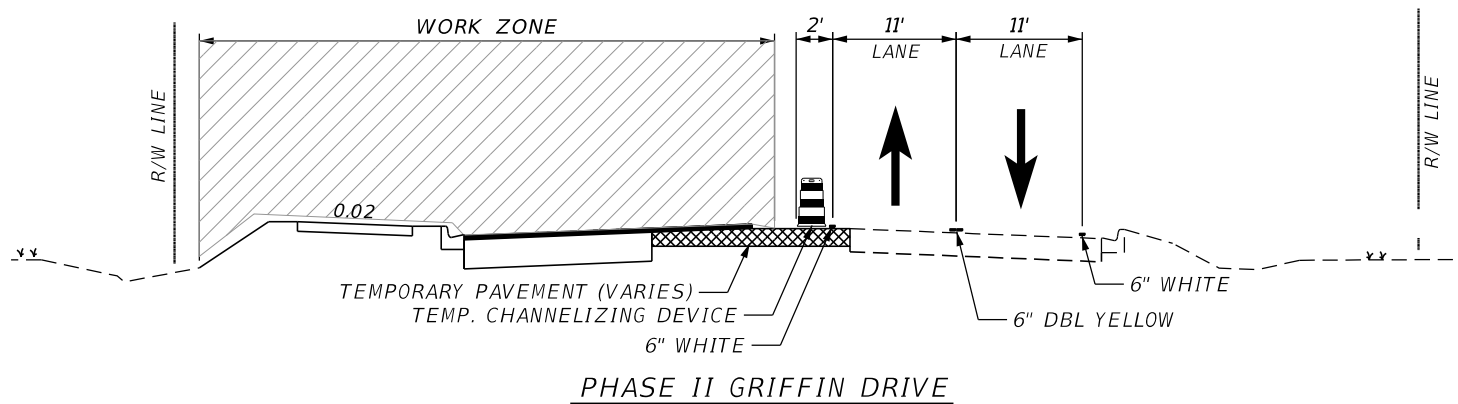


CONSTRUCTION PHASING NOTES

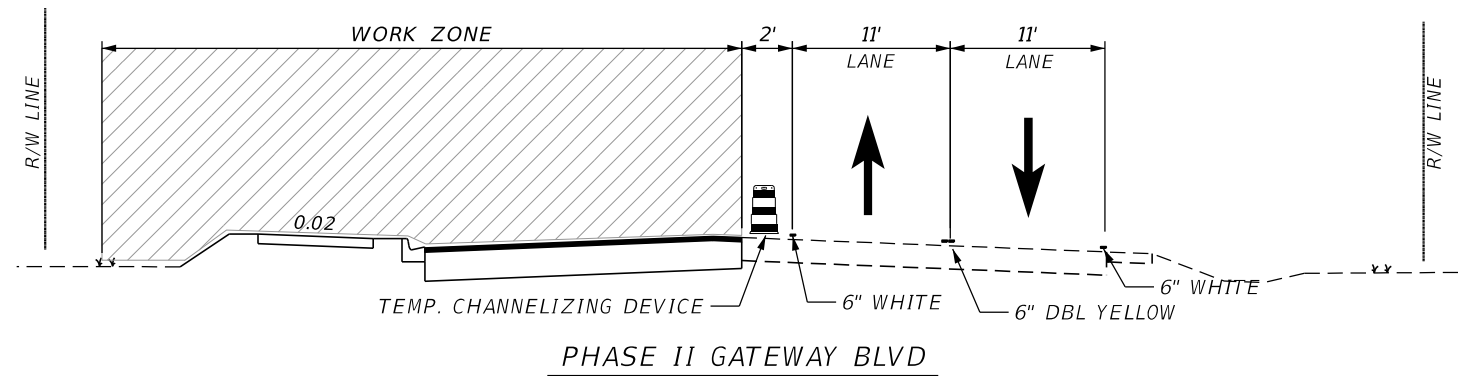


- PHASE I - OPERATIONS ARE TO INSTALL TEMPORARY PAVEMENT FOR PHASE II.
1. INSTALL SIGNING ON GATEWAY BLVD, GRIFFIN DRIVE, AND FAIRWAY LAKES DRIVE IN ACCORDANCE WITH THESE PLANS AND INDICES 102-601, 102-602, 102-603, 102-608, 102-611, 102-612, 102-613.
  2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE I CONSTRUCTION. REMOVE CONFLICTING STRIPING
  3. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE II.

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TEMPORARY TRAFFIC CONTROL (1)		200672	57

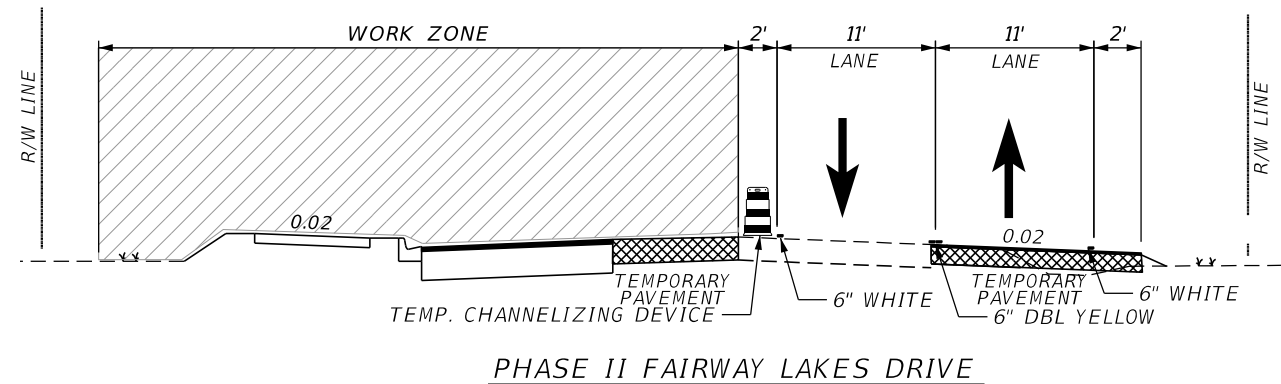



## CONSTRUCTION PHASING NOTES



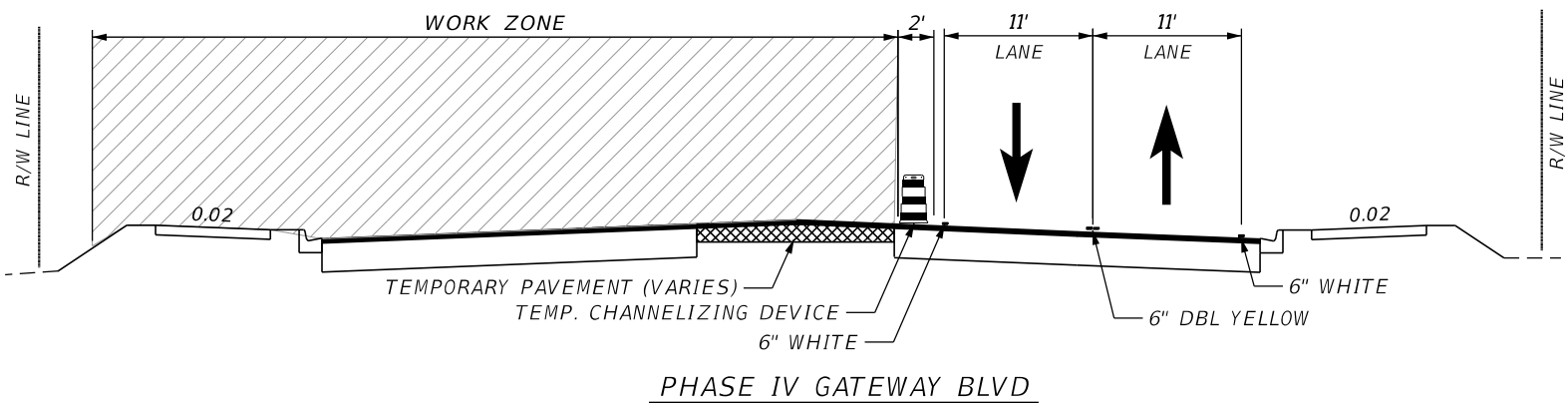
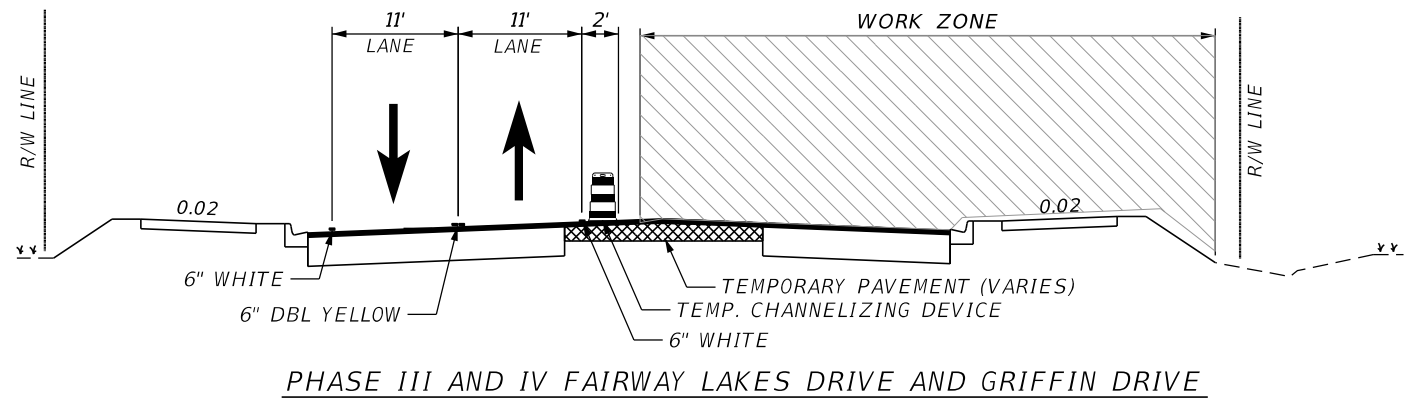
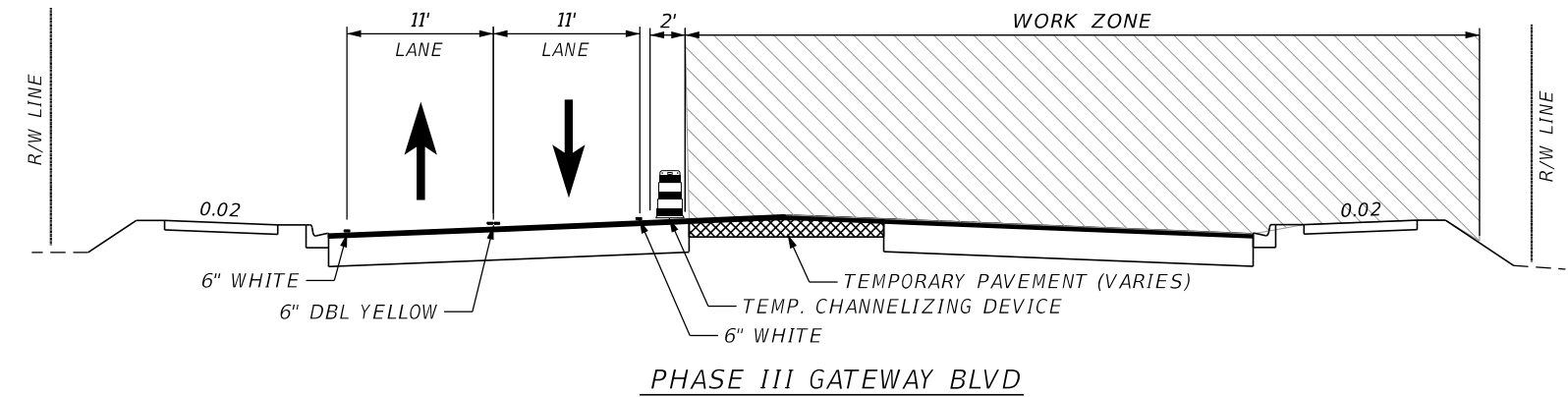
PHASE II - OPERATIONS ARE TO CONSTRUCT GATEWAY BLVD WEST SIDE (SB), FAIRWAY LAKES DRIVE NORTH SIDE (WB), AND GRIFFIN DRIVE NORTH SIDE (WB) NEW ALIGNMENT ALONG WITH TEMPORARY PAVEMENT.

1. INSTALL SIGNING ON GATEWAY BLVD, GRIFFIN DRIVE, AND FAIRWAY LAKES DRIVE IN ACCORDANCE WITH THESE PLANS AND INDICES 102-601, 102-602, 102-603, 102-608, 102-611, 102-612, 102-613.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE II CONSTRUCTION.
3. CONSTRUCT GATEWAY BLVD EAST SIDE (NB), FAIRWAY LAKES DRIVE NORTH SIDE (WB), AND COMMERCE LAKES DRIVE NORTH SIDE (WB) NEW ALIGNMENT. THIS WILL INCLUDE LANES, SHOULDERS, CURB AND GUTTERS, SIDEWALKS, EXCLUDING TRAFFIC SEPARATORS AND ROUNDABOUT.
4. CONSTRUCT PROPOSED DRAINAGE AS INDICATED ON THIS PLAN SET.
5. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE III.



REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TEMPORARY TRAFFIC CONTROL (2)	200672	58

CONSTRUCTION PHASING NOTES




PHASE III - OPERATIONS ARE TO CONSTRUCT GATEWAY BLVD EAST SIDE (NB), FAIRWAY LAKES DRIVE SOUTH SIDE (EB), AND GRIFFIN DRIVE SOUTH SIDE (EB) NEW ALIGNMENT.

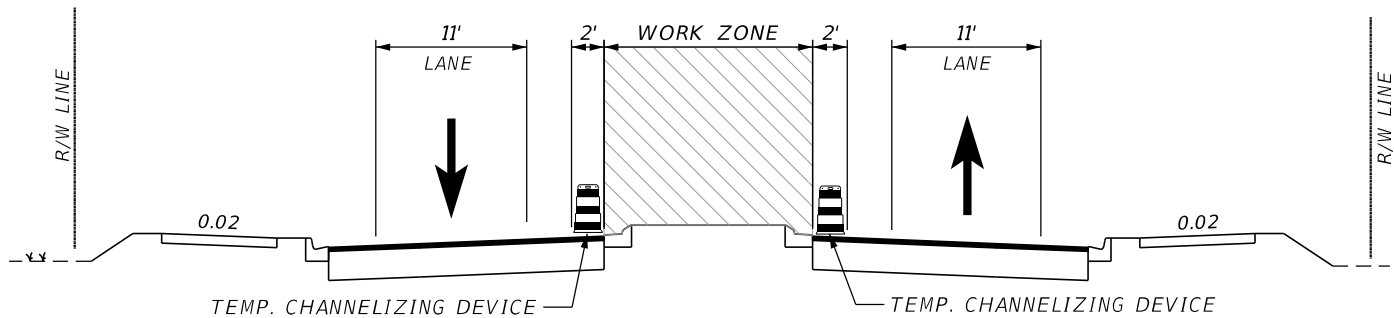
1. INSTALL SIGNING ON GATEWAY BLVD, GRIFFIN DRIVE, AND FAIRWAY LAKES DRIVE IN ACCORDANCE WITH THESE PLANS AND INDICES 102-601, 102-602, 102-603, 102-608, 102-611, 102-612, 102-613.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE III CONSTRUCTION.
3. CONSTRUCT GATEWAY BLVD EAST SIDE (NB), FAIRWAY LAKES DRIVE SOUTH SIDE (EB), AND GRIFFIN DRIVE SOUTH SIDE (EB) NEW ALIGNMENT. THIS WILL INCLUDE LANES, CURB AND GUTTERS, SIDEWALKS, EXCLUDING TRAFFIC SEPARATORS AND ROUNDABOUT.
4. CONSTRUCT PROPOSED DRAINAGE AS INDICATED ON THIS PLAN SET.

PHASE IV - OPERATIONS ARE TO CONSTRUCT THE SOUTHEAST SECTION OF THE PROPOSED INTERSECTION.

1. INSTALL SIGNING ON GATEWAY BLVD, GRIFFIN DRIVE, AND FAIRWAY LAKES DRIVE IN ACCORDANCE WITH THESE PLANS AND INDICES 102-601, 102-602, 102-603, 102-608, 102-611, 102-612, 102-613.
2. MOVE CHANNELIZING DEVICES AND SHIFT TRAFFIC FOR PHASE IV CONSTRUCTION.
3. CONSTRUCT THE INTERSECTION AREA OF GATEWAY BLVD AND FAIRWAY LAKES DRIVE WHICH WAS NOT ACCESSIBLE DURING PHASES II AND III.

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TEMPORARY TRAFFIC CONTROL (3)	200672	59

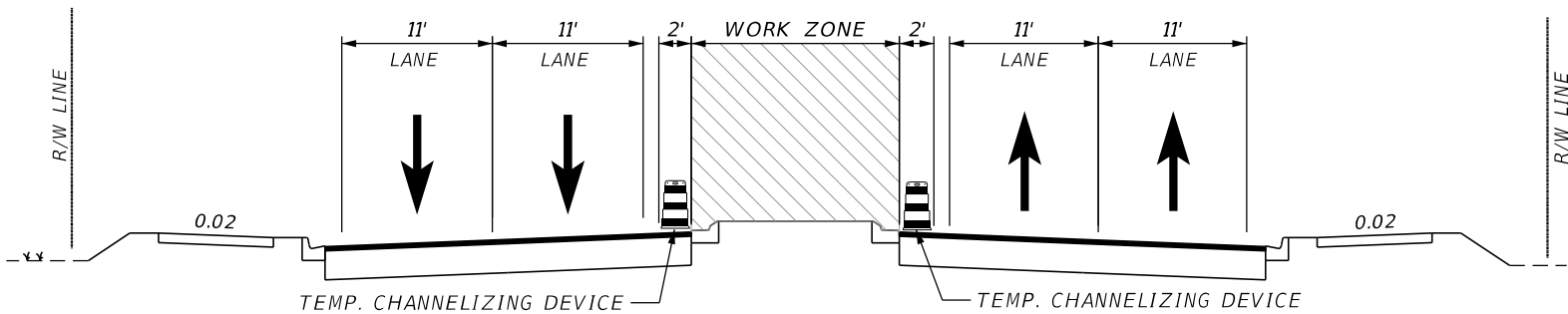
CONSTRUCTION PHASING NOTES




PHASE V FAIRWAY LAKES DRIVE AND GRIFFIN DRIVE

PHASE V - OPERATIONS ARE TO MOVE TRAFFIC ONTO NEWLY CONSTRUCTED ROADWAY AND CONSTRUCT TRAFFIC SEPARATORS, THE CENTER OF THE ROUNDABOUT, COMPLETE ANY REMAINING SIDEWALKS ON GRIFFIN DRIVE AND REMOVE TEMPORARY PAVEMENT FROM THE PREVIOUS PHASES OF CONSTRUCTION.

1. INSTALL SIGNING ON GATEWAY BLVD, GRIFFIN DRIVE, AND FAIRWAY LAKES DRIVE IN ACCORDANCE WITH THESE PLANS AND INDICES 102-601, 102-602, 102-603, 102-608, 102-611, 102-612, 102-613.
2. MILL AND RESURFACE GATEWAY BLVD AND GRIFFIN DRIVE.
3. MOVE CHANNELIZING DEVICES AND SHIFT TRAFFIC TO FINAL TRAFFIC PATTERN ON NEWLY CONSTRUCTED ROADWAYS. CONSTRUCT SPLITTER ISLANDS, REMAINING SIDEWALK ON GRIFFIN DRIVE, AS WELL AS CENTER OF THE ROUNDABOUT.
4. REMOVE TEMPORARY PAVEMENT FROM PREVIOUS PHASES.
4. COMPLETE INSTALLATION OF PERMANENT SIGNING WITHIN PROJECT LIMITS.
5. COMPLETE FRICTION COURSE WITHIN PROJECT LIMITS.
6. COMPLETE PLACEMENT OF THERMOPLASTIC PAVEMENT MARKINGS.



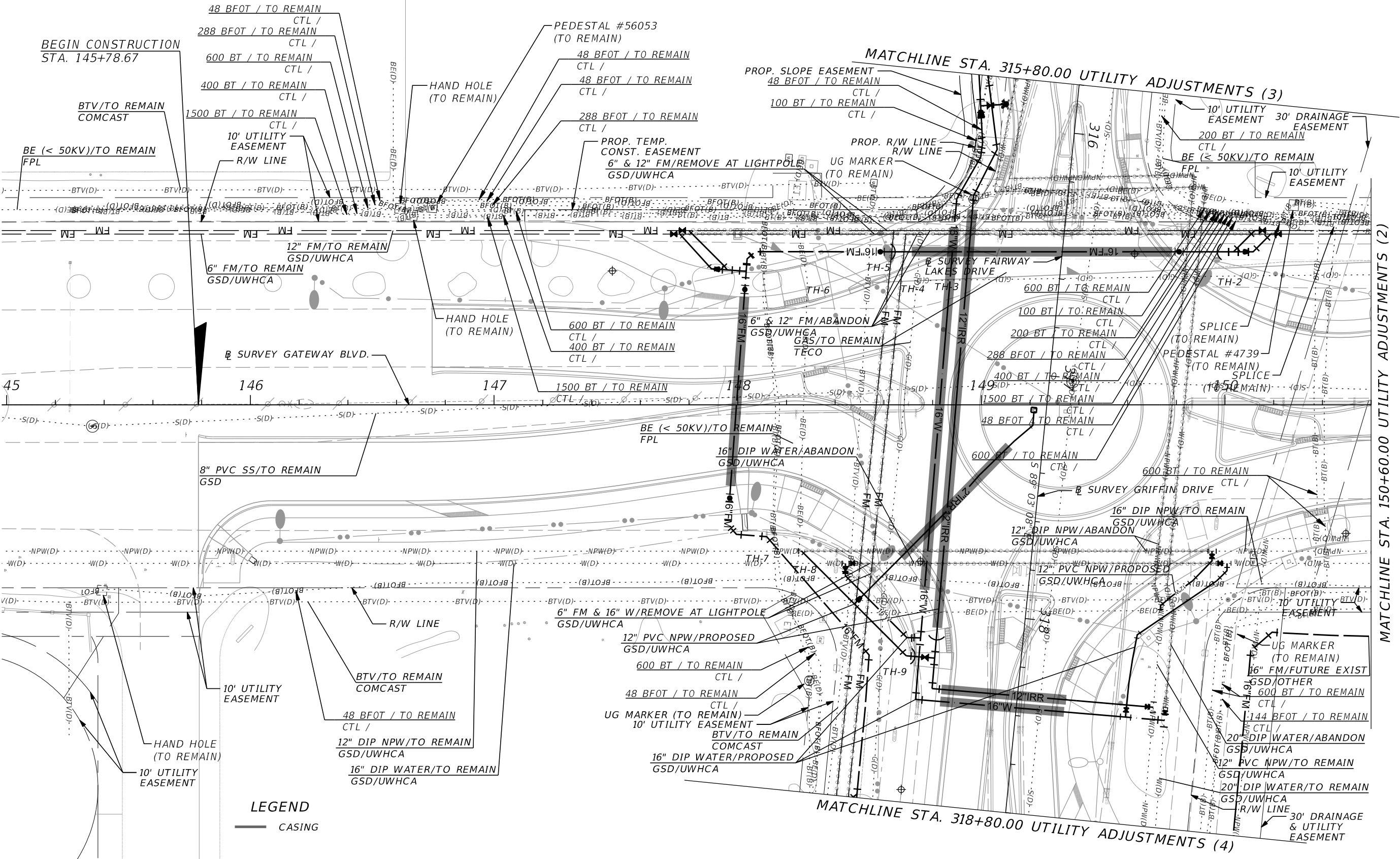
PHASE V GATEWAY BLVD

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TEMPORARY TRAFFIC CONTROL (4)	200672	60

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GATEWAY BOULEVARD



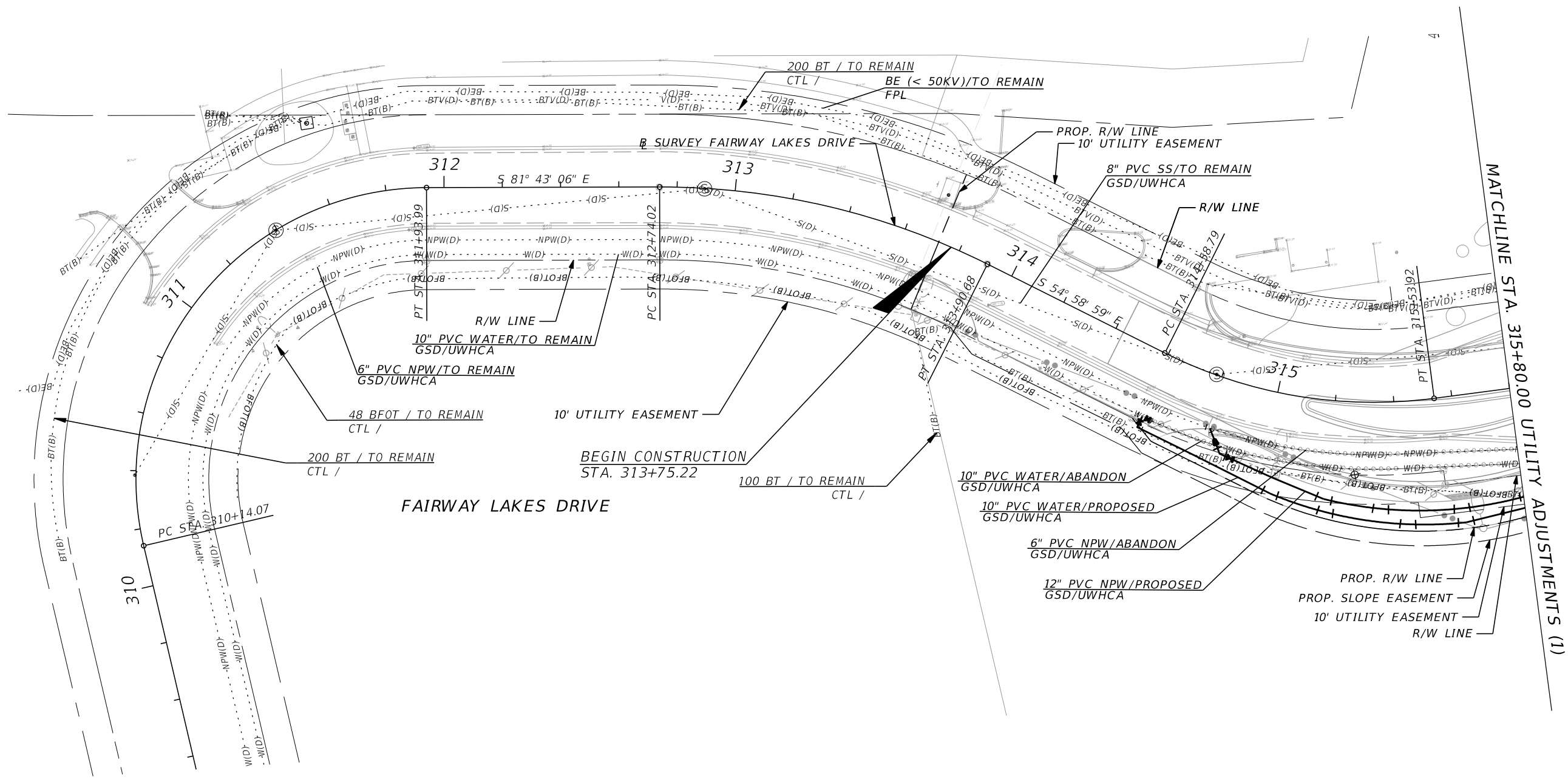
JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759




GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
UTILITY ADJUSTMENTS (1)		200672	61

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REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			UTILITY ADJUSTMENTS (3)		200672	63

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T2 UES, Inc

5670 Zip Drive, Fort Myers, FL 33905  
Phone: 239 277 0722 / Fax: 239 277 7179

Subsurface Utility Engineering  
Test Hole Field Data

T2 Project No.:190302

Client Project No.:

Proj. Road Name:GATEWAY BLVD.

Proj. Location:GATEWAY

City , County, State:FORT MYERS, LEE, FLORIDA

Date:10/2/20&12/8/20

Vac Truck/Trailer No.:55589

SUE Crew:R.P., J.A.

Prepared By:A.C.

Checked By:C.C.

Units:U.S. Survey Feet

Datum(s):Horizontal: NAD 83/11    Vertical: NAVD 88

Utility Material:

AC (Transite)  
CI (Cast Iron)  
Conc. (Concrete)  
Copper  
Duct  
Fg (Fiberglass)  
Galv. (Galvanized)  
Lead  
STL (Steel)  
UNK (Unknown)

CMP (Corrugated Metal Pipe)  
CPP (Corrugated Plastic Pipe)  
DBC (Direct Buried Cable)  
DIP (Ductile Iron Pipe)  
HDPE (High Density PE)  
PE (Polyethylene Pipe)  
PVC (Polyvinyl Chloride)  
RCP (Reinforced Concrete Pipe)  
VCP (Vitrified Clay Pipe)  
PL Petroleum

Utility Type:

BE - Electrical  
EXP - Exploratory  
FL - Fuel Line  
FM - Force Main  
GM - Gas Line  
HW - Hot Water  
IRR. - Irrigation  
SL - Street Light  
TS - Traffic Signal  
UNK - Unknown

BT - Buried Telephone  
CATV - Cable Television  
CW - Chilled Water  
FOC - Fiber Optic Cable  
RAW - Raw Water  
RCW - Reclaimed Water  
SAN - Sanitary Sewer  
STM - Storm Sewer  
WM - Water Main

Station & Offset Measured From:

30 - Edge Of Pavement    31 - "X" in Concrete    32 - Survey B/L  
33 - C/L of Construction    34 - Back of Curb    35 -Swing Tie

Surface Type:

A - Asphalt    B - Brick    C - Concrete    G - Gravel    NG - Natural Ground  
RR - Riprap    R - Rock    S - Shell

Identified By :

20 - Sleeve    21 - Hub/Lathe    22 - Nail/Disk (See below)  
23 - "X" in Concrete    24 - Iron Rod & Cap (See below)  
\* Note: 22 = Set Nail and Disk Stamped "T2 Test Hole"  
\* Note: 24 = Set Iron Rod & Cap Stamped "T2 Test Hole"

Utility Owner	Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Northing	Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	ID'd By	Surface Type	Pavement Thickness (Inches)
	10/02/20	1	UNK POSS HDPE GAS	814076.62	738137.02	25.02	6.18	18.84	N/A	●	↕	24	NG	N/A
	10/02/20	2	UNK POSS HDPE GAS	813663.06	738166.10	26.52	10.93	15.59	N/A	●	↕	24	NG	N/A
	12/08/20	3	5" HDPE GAS	813533.03	738178.98	26.23	3.26	22.97	N/A	●	↕	24	NG	N/A
	12/08/20	4	12" DIP FM	813522.21	738179.66	26.11	3.64	22.47	N/A	●	↕	24	NG	N/A
	12/08/20	5	6" DIP FM	813517.68	738179.84	25.89	4.79	21.10	N/A	●	↕	24	NG	N/A
	12/08/20	6	2-6" PVC BE	813483.03	738182.69	25.97	3.50	22.47	N/A	●●	↕↕	24	NG	N/A
	12/08/20	7	2-4" PVC BT	813478.67	738293.94	26.07	2.08	23.99	N/A	●●	↕↕	24	NG	N/A
	12/08/20	8	2-6" PVC BE	813489.10	738294.51	26.03	3.90	22.13	N/A	●●	↕↕	24	NG	N/A
	12/08/20	9	EXP	813538.90	738337.87	26.33			N/A			24	NG	N/A
	12/08/20	10	EXP	813540.69	738439.09	25.77			N/A			24	NG	N/A
Notes:	TH-9 & TH-10 Were Exploritory and closed due to cave in.													


J:\2019\190302 - Gateway @ Griffin Dr\Test Hole Data\Gateway at Griffin Testhole Data Sheet 10-2-20.xlsx

Page 1 of 1

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759



Wayne.Ponder  
1/19/2021  
11:54:54 AM

GATEWAY BOULEVARD AT GRIFFIN DRIVE  
INTERSECTION CONTROL (ROUNDAABOUT)

TEST HOLE FIELD DATA

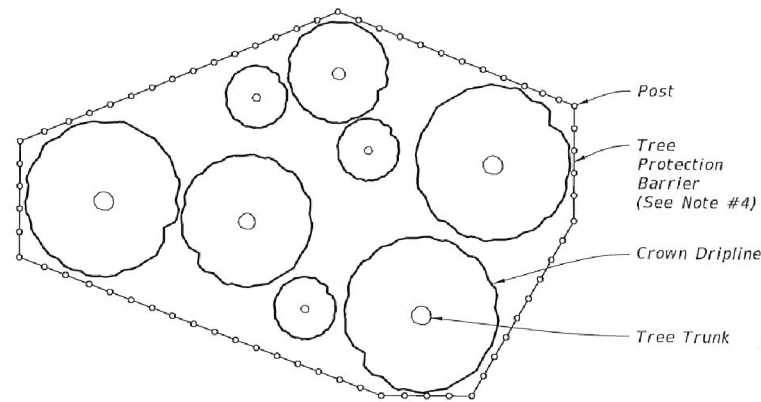
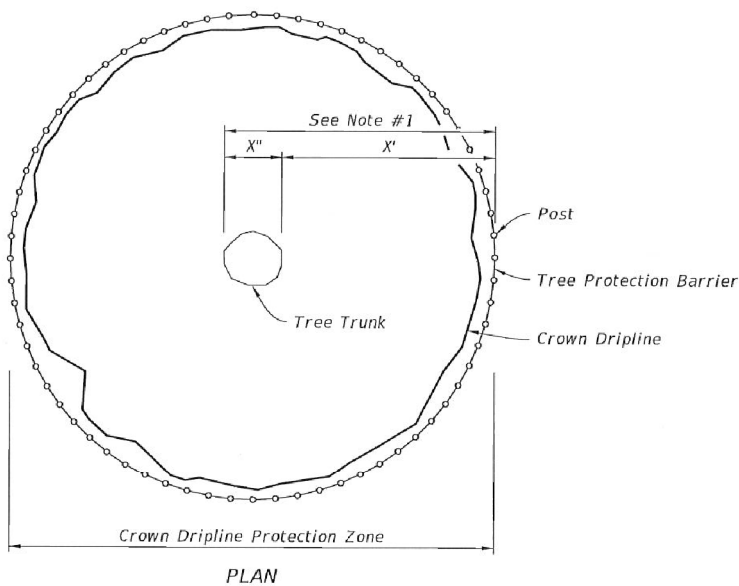
COUNTY PROJECT NO. 200672

SHT. NO. 65

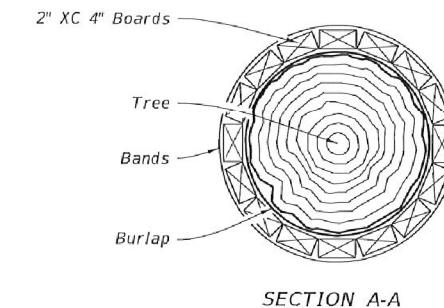
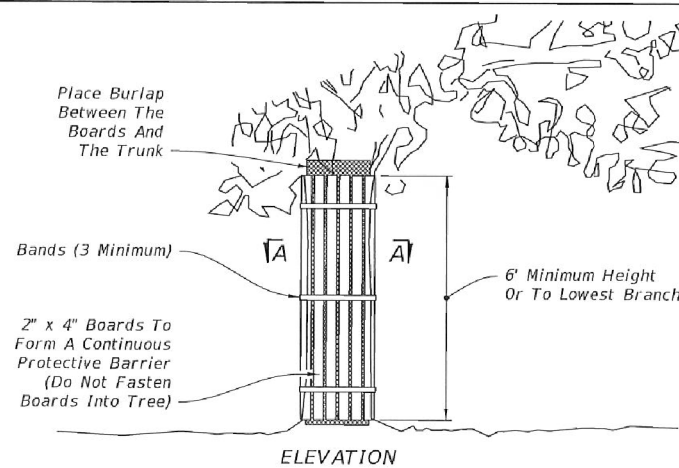
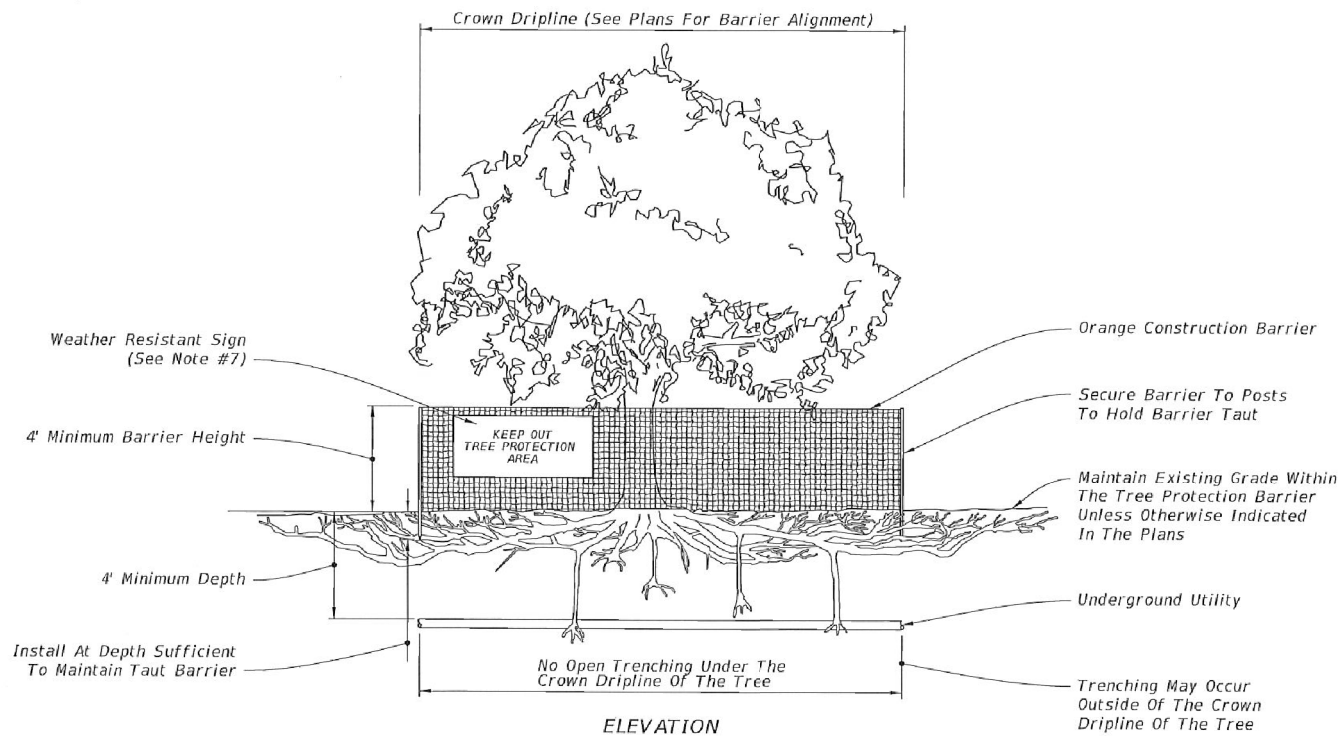
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NOTES:

1. Crown Dripline Protection Zone: Extends in all directions from trunk of tree to a distance equal to one foot per inch of trunk diameter at breast height.
2. Staging, storage, dumping, washing and operation of equipment is not permitted within the limits of the tree protection barrier, including during barrier installation.
3. Install all tree protection prior to commencement of construction and remove when directed by the engineer. Maintain protection at all times.
4. For closely spaced groups of trees, place the tree protection barrier around the entire group.
5. Inspect trunk protection and tree quarterly to prevent girdling. Adjust bands to allow tree growth as needed.
6. See plans for any additional requirements or modifications within the tree protection area.
7. Place weather resistant sign every 50' along the barrier, with 6" minimum text height and provide text in English and Spanish. Sign should read "Keep Out Tree Protection Area".
8. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barrier detailed on this Index.



PLAN  
PROTECTION BARRIER FOR TREE GROUPINGS




- NOTES:
1. Install trunk protection when Tree Protection Barrier can not be reasonably erected.
  2. See Selective Clearing and Grubbing Plan for location of trunk protection.
  3. Adjust bands to allow tree growth (inspect quarterly to prevent girdling).

TRUNK PROTECTION

10/11/2016 9:24:43 AM

LAST REVISION		DESCRIPTION:	FDOT	FY 2017-18	DESIGN STANDARDS	TREE PROTECTION AND PRESERVATION	INDEX NO.	SHEET NO.
DATE	REVISION							
11/01/16							542	1 of 1

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 <b>Lee County</b> <i>Southwest Florida</i> DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			TREE PROTECTION DETAILS		200672	66

PAY ITEM NOTES:

110-1-1    CLEARING AND GRUBBING INCLUDES THE COST OF TREE TRIMMING BY PROFESSIONAL ARBORISTS AND REMOVAL OF DEBRIS AT LOCATIONS WHERE TREE BRANCHES OR SHRUBS CONFLICT WITH THE PROPOSED LIGHTING POLES.

430-175-118/430-175-124/430-175-130    DESILTING PIPE PRIOR TO PROJECT COMPLETION TO BE INCLUDED IN PROPOSED PIPE PAY ITEMS.

520-1-10    CONCRETE FLUME TO BE PAID AS CURB AND GUTTER.

570-1-2    EXISTING SOD IS MOSTLY ST. AUGUSTINE, MATCH EXISTING.


527-2    ALL DETECTABLE WARNINGS SHALL BE WET SET.

919-528    ALL DIRECTIONAL INDICATORS SHALL BE WET SET.

\*\*\*    ROOT CONTROL BARRIER SHALL BE INSTALLED TO CONFORM TO THE REQUIREMENTS AS SET FORTH BY THE MANUFACTOURER, TO A MINIMAL DEPTH OF 12" BELOW FINISH GRADE OF ADJACENT SIDEWLAK OR CURBING. ROOT BARRIER SHALL BE FREE OF FOLDS AND TEARS TO PRODUCE AN EFFECTIVE BARRIER BETWEEN CONCRETE CONSTRUCTION AND TREES. INSTALLATION SHALL BE PERPENDICULAR TO FINISH GRADE AND ALL EDGES SHALL BE BELOW FINISH GRADE ONCE RESTORATION OF THE ADJACENT DISTURBED AREA HAS BEEN COMPLETED. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A MANUFACTURER'S CERTIFICATE STATING THE MANUFACTURER'S NAME, PRODUCT NAME, STYLE NUMBER, CHEMICAL COMPOSITION, AND OTHER PERTINENT INFORMATION TO FULLY DESCRIBE THE PRODUCT. THE CONTRACTOR SHALL AFFIX AN APPLICABLE MSDS TO THE OUTSIDE OF EACH SHIPPING CONTAINER FOR THE PRODUCT.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			


SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS								
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F	P	F		
102-1	MAINTENANCE OF TRAFFIC	LS	1		1		365 DA	

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	<div>Lee County Southwest Florida DEPARTMENT OF TRANSPORTATION</div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES	200672	SQ-1

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		STAKED TURBIDITY BARRIER		SOIL TRACKING PREVENTION DEVICE		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 10 3		0104 12		0104 15		0104 18			
			LF		LF		EA		EA			
			P	F	P	F	P	F	P	F		
142+97.39 to 145+51.46	RT		262.8									
142+97.39 to 149+09.02	LT		618.1									
145+82.40 to 148+42.56	RT		281.8									
149+65.96 to 156+61.22	LT		716.9									
149+89+96 to 156+61.22	RT		686.5									
313+72.30 to 316+12.43	RT		256.0									
314+10.82 to 314+33.95	LT		23.1									
314+67.87 to 316+00.30	LT		123.9									
318+06.82 to 328+91.95	LT		1075.3									
318+28.05 to 320+33.05	RT		205.0									
320+62.91 to 324+45.94	RT		386.1									
320+06.31 to 320+06.54	RT				13.7							
320+91.43 to 320+91.65	RT				13.7							
322+99.80 to 322+99.88	LT				13.7							
142+75.00	LT						1					
157+00.00	RT						1					
313+50.00	LT						1					
328+30.00	RT						1					
145+23.14 to 145+28.52	LT/RT								1			
145+23.28 to 145+28.66	LT								1			
145+81.07 to 145+89.24	RT								1			
147+95.87 to 148+06.52	RT								1			
147+97.30 to 148+02.68	LT								1			
150+77.21 to 150+82.59	LT								1			
151+73.73 to 151+86.49	LT								1			
151+77.21 to 151+82.59	LT								1			
154+23.06 to 154+28.44	LT								1			
154+23.82 to 154+29.20	RT								1			
313+65.40 to 313+74.91	RT								1			
313+65.72 to 313+74.34	LT								1			
316+67.90 to 316+76.28	RT								1			
319+23.79 to 319+33.84	LT								1			
319+92.75 to 320+07.72	RT								1			
321+43.57 to 321+57.37	LT								1			
SUB-TOTAL:			4635.5		41.1		4.0		16			
TOTAL:			4636		41		4		16			

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES		200672	SQ-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 LITTER REMOVAL AND MOWING																
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL					MOWING					DESIGN NOTES	CONSTRUCTION REMARKS
					0107 1					0107 2						
	AREA ID				CYCLES	AREA		AREA ID	CYCLES	AREA						
						AC/ CYCLE	TOTAL (AC)			AC/ CYCLE	TOTAL (AC)					
	STA. TO STA.						P	F				P	F			
ALL	145+80.67 to 148+56.58	RT		30	24371	12	0.23	1.79								
ALL	146+63.66 to 149+05.60	LT		30	24355	12	0.18									
ALL	149+63.76 to 153+43.55	LT		30	24302	12	0.28									
ALL	149+78.41 to 151+24.05	RT		30	24407	12	0.11									
ALL	313+72.30 to 313+82.69	LT		30	24204	12	0.00									
ALL	313+72.30 to 316+29.64	RT		30	24328	12	0.10									
ALL	314+08.08 to 314+36.99	LT		30	24208	12	0.01									
ALL	314+65.00 to 316+28.71	LT		30	24317	12	0.04									
ALL	317+66.23 to 320+34.95	RT		30	24385	12	0.26									
ALL	317+71.41 to 322+86.06	LT		30	24392	12	0.54									
ALL	320+61.09 to 321+35.18	RT		30	24267	12	0.06									
ALL	145+78.59 to 148+31.78	LT/RT		30					23878	12	0.12	2.42				
ALL	145+80.67 to 148+56.58	RT		30					23960	12	0.23					
ALL	146+55.17 to 147+52.57	RT		30					23898	12	0.00					
ALL	146+63.66 to 149+07.87	LT		30					24012	12	0.21					
ALL	147+12.60 to 147+70.00	LT		30					23722	12	0.00					
ALL	147+37.17 to 148+15.31	LT		30					23718	12	0.00					
ALL	148+37.19 to 148+75.73	LT/RT		30					23942	12	0.01					
ALL	149+30.08 to 149+30.08	RT		30					23728	12	0.08					
ALL	149+57.92 to 151+24.05	RT		30					24000	12	0.15					
ALL	149+64.33 to 153+43.40	LT		30					24069	12	0.28					
ALL	149+98.37 to 150+28.36	LT/RT		30					24131	12	0.01					
ALL	150+24.72 to 153+43.54	LT/RT		30					24103	12	0.18					
ALL	151+79.00 to 151+81.00	LT		30					24157	12	0.00					
ALL	313+72.30 to 313+82.69	LT		30					23638	12	0.00					
ALL	313+72.30 to 316+48.78	RT		30					24032	12	0.14					
ALL	314+08.75 to 314+36.09	LT		30					23645	12	0.00					
ALL	314+65.00 to 316+31.96	LT		30					24054	12	0.04					
ALL	315+11.78 to 316+09.43	RT		30					24147	12	0.01					
ALL	316+20.72 to 316+34.60	LT/RT		30					24120	12	0.00					
ALL	317+66.23 to 320+34.95	RT		30					23972	12	0.26					
ALL	317+90.13 to 322+85.80	LT		30					23979	12	0.49					
ALL	317+91.15 to 320+10.28	LT/RT		30					24087	12	0.07					
ALL	320+61.09 to 321+35.18	RT		30					23904	12	0.06					
ALL	321+01.55 to 322+86.70	LT/RT		30					23763	12	0.07					
SUB-TOTAL :								1.79		SUB-TOTAL :				2.42		
TOTAL :								1.8		TOTAL :				2.4		

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES		200672	SQ-3


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

SUMMARY OF REMOVAL ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.						AREA (AC)	P	F	P	F		
110-1-1	CLEARING AND GRUBBING	145+78.59 TO 148+31.76	LT/RT	20653			LS	0.117	1.99		1			
		145+80.67 TO 148+56.58	RT	24471				0.231						
		146+63.66 TO 149+07.87	LT	24522				0.206						
		149+64.33 TO 153+43.40	LT	24579				0.284						
		149+57.92 TO 151+23.90	RT	24442				0.148						
		313+72.30 TO 316+48.78	RT	24542				0.014						
		314+85.00 TO 316+31.96	LT	24564				0.037						
		317+66.23 TO 320+34.95	RT	24464				0.262						
		317+90.13 TO 322+85.80	LT	24421				0.493						
		317+91.19 TO 320+11.39	LT/RT	24506				0.069						
		320+61.09 TO 321+35.18	RT	24483				0.056						
		321+01.55 TO 322+86.70	LT/RT	24489				0.070						
110-4-10	REMOVAL OF EXISTING CONCRETE	147+12.62 TO 149+09.38	LT	21338			SY		179.2		998		SIDEWALK	
		147+97.55 TO 148+76.58	LT/RT	21330					7.8				MEDIAN CURB	
		148+11.90 TO 148+74.98	RT	21307					24.4				CURB	
		148+31.65 TO 148+75.46	LT	21322					4.4				MEDIAN CURB	
		149+64.33 TO 151+61.74	LT	21216					179.7				SIDEWALK	
		149+82.87 TO 153+43.54	LT/RT	21225					81.1				MEDIAN CURB	
		149+85.04 TO 151+24.05	RT	21243					31.1				MEDIAN CURB	
		313+90.90 TO 316+38.95	RT	21202					57.0				CURB	
		314+24.94 TO 316+33.96	LT	21156					52.5				CURB	
		314+24.96 TO 314+70.16	LT	21187					35.6				DRIVEWAY	
		315+86.73 TO 316+42.45	LT/RT	21135					15.4				MEDIAN CURB	
		315+88.49 TO 316+38.17	LT	21126					11.0				MEDIAN CURB	
		317+44.85 TO 319+64.49	LT	21250					190.4				SIDEWALK	
		317+49.12 TO 318+69.70	LT	21263					28.1				CURB	
		317+63.02 TO 319+85.85	LT/RT	21273					51.6				MEDIAN CURB	
		317+64.39 TO 319+82.75	RT	21294					49.0				MEDIAN CURB	

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		P	F		
314+83	LT	1			
SUB-TOTAL :					
TOTAL :					

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	REGULAR EXCAVATION	1243			
120-6	EMBANKMENT	1632			

EARTHWORK HAS BEEN CALCULATED USING THE ASPHALT BASE OPTION. IF ANOTHER OPTION IS CONSTRUCTED, THERE SHALL BE NO REVISION TO THE EARTHWORK QUANTITIES FOR WHICH PAYMENT IS MADE BY PLAN QUANTITY.

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES	200672	SQ-4


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

SUMMARY OF PAVEMENT														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	TYPE B STABILIZATION	148+37.25 to 148+67.85		LT/RT	12983			SY	49.1		7780			
		149+60.22 to 149+60.22		RT	16385				4523.3					
		149+77.08 to 149+77.08		RT	12981				683.5					
		315+11.78 to 316+09.43		RT	13009				67.4					
		315+28.32 to 315+28.32		RT	16317				630.8					
		317+91.15 to 320+10.28		LT/RT	12997				333.1					
		320+26.07 to 320+26.07		RT	16238				1492.9					
285709	OPTIONAL BASE, BASE GROUP 09	149+59.86 to 149+59.86		RT	16634			SY	3757.0		5321			
		314+58.93 to 316+59.50		LT/RT	16696				577.7					
		317+88.52 to 321+35.18		RT	16722				985.9					
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	142+97.39 to 145+78.70		RT	14385			SY	1075.0		8604			
		142+97.39 to 146+74.01		LT	12112				1165.8					
		151+24.05 to 156+61.22		LT/RT	12201				2578.3					
		313+91.96 to 314+43.12		LT/RT	12142				136.4					
		314+42.65 to 315+80.00		LT/RT	12021				257.7					
		317+94.29 to 322+86.06		LT/RT	11994				1254.8					
		321+35.17 to 324+45.94		RT	14371				592.4					
		322+86.05 to 328+87.98		LT	11976				1543.9					
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (2.5")	149+59.86 to 149+59.86		RT	16510			TN	482.84		716.1			
		149+79.33 to 149+79.33		RT	14288				103.78					
		314+58.93 to 316+59.50		LT/RT	16696				31.77					
		317+88.52 to 321+35.18		RT	16722				54.22					
		315+00.00 to 315+80.00		LT					1.16				OVERBUILD FAIRWAY LAKES DR	
		317+90.00 to 322+86.00		LT					42.33				OVERBUILD GRIFFIN DR	
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	142+97.39 to 145+78.70		RT	14385			TN	59.13		473.3			
		142+97.39 to 146+74.01		LT	12112				64.12					
		151+24.05 to 156+61.22		LT/RT	12201				141.81					
		313+91.96 to 314+43.12		LT/RT	12142				7.50					
		314+42.65 to 315+80.00		LT/RT	12021				14.17					
		317+94.29 to 322+86.06		LT/RT	11994				69.02					
		321+35.17 to 324+45.94		RT	14371				32.58					
		322+86.05 to 328+87.98		LT	11976				84.92					
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22	149+59.86 to 149+59.86		RT	16634			TN	206.64		206.6			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759



Lee County  
Southwest Florida  
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT GRIFFIN DRIVE  
INTERSECTION CONTROL (ROUNDAABOUT)


COUNTY PROJECT NO. 200672

SHT. NO. SQ-5

SUMMARY OF QUANTITIES

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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY				TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P			F
0520 1 7	Concrete Curb & Gutter, Type E	145+78.89 to 145+84.67	RT		LF	5.9			5.9		2058			
		145+84.67 to 146+63.54	RT			78.9			78.9					
		146+63.54 to 147+52.57	RT			89.4			89.4					
		146+74.01 to 146+74.01	LT			2.3			2.3					
		146+74.24 to 146+80.01	LT			5.9			5.9					
		146+80.01 to 147+61.53	LT			81.6			81.6					
		147+52.57 to 148+16.18	LT/RT			64.3			64.3					
		147+61.53 to 148+25.74	LT			64.5			64.5					
		148+16.18 to 148+45.11	LT/RT			29.8			29.8					
		148+25.74 to 148+26.03	LT			0.4			0.4					
		148+26.03 to 148+27.19	LT			5.2			5.2					
		148+27.19 to 148+31.78	LT			6.7			6.7					
		148+31.78 to 148+45.39	LT/RT			14.2			14.2					
		148+37.25 to 148+37.43	LT			0.4			0.4					
		148+37.25 to 148+37.54	LT			1.3			1.3					
		148+37.43 to 148+65.07	LT			28.5			28.5					
		148+37.54 to 148+37.73	LT			0.3			0.3					
		148+37.73 to 148+56.45	LT			20.0			20.0					
		148+45.11 to 148+45.44	RT			0.4			0.4					
		148+45.39 to 148+45.51	RT			0.4			0.4					
		148+45.44 to 148+45.51	RT			0.1			0.1					
		148+55.42 to 148+55.51	RT			0.4			0.4					
		148+55.42 to 148+58.78	RT			6.7			6.7					
		148+55.51 to 148+65.03	RT			11.0			11.0					
		148+56.45 to 148+58.78	LT/RT			9.3			9.3					
		148+65.03 to 148+66.90	RT			2.8			2.8					
		148+65.07 to 148+67.85	LT			4.3			4.3					
		148+66.41 to 148+66.90	LT/RT			17.1			17.1					
		148+66.41 to 148+67.85	LT			14.5			14.5					
		149+98.37 to 149+99.41	RT			14.5			14.5					
		149+98.37 to 150+01.14	RT			4.2			4.2					
		149+99.41 to 149+99.45	LT/RT			9.0			9.0					
		149+99.45 to 150+01.09	LT			2.4			2.4					
		150+01.09 to 150+13.31	LT			12.9			12.9					
		150+01.14 to 150+28.36	RT			28.0			28.0					
		150+11.43 to 150+13.46	RT			5.7			5.7					
		150+11.43 to 150+15.24	RT			9.5			9.5					
		150+13.31 to 150+13.46	LT/RT			0.4			0.4					
		150+15.24 to 150+28.34	RT			13.4			13.4					
		150+24.72 to 150+24.80	RT			0.8			0.8					
		150+24.72 to 150+34.42	RT			9.8			9.8					
		150+24.80 to 150+50.14	RT			25.5			25.5					
		150+34.42 to 150+39.24	RT			7.2			7.2					
		150+39.24 to 150+40.03	RT			4.5			4.5					
		150+40.03 to 150+40.31	RT			0.4			0.4					
		150+40.31 to 150+65.49	RT			25.3			25.3					
		150+50.14 to 151+21.21	LT/RT			72.6			72.6					
		150+65.43 to 151+24.04	RT			58.6			58.6					
		151+21.21 to 152+31.96	LT			111.4			111.4					
		151+24.04 to 151+24.05	RT			2.2			2.2					


REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)	COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES	200672	SQ-6

1/19/2021 11:55:10 AM J:\CR044\CR044002.02\ms\roadway\SUMORD01.DGN Wayne.Ponder

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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY					TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS	
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P	F			
							TYPE	LENGTH	P	F					
0520 1 7	Concrete Curb & Gutter, Type E (CONT'D)	152+31.96 to 152+84.24	LT		LF	52.5			52.5						
		152+84.24 to 153+43.54	LT			59.4			59.4						
		153+43.54 to 153+43.55	LT			2.3			2.3						
		315+11.78 to 315+12.12	RT			3.6			3.6						
		315+11.78 to 315+87.64	RT			79.1			79.1						
		315+12.12 to 315+69.17	RT			57.6			57.6						
		315+69.17 to 315+91.12	RT			21.9			21.9						
		315+87.64 to 316+09.18	RT			21.8			21.8						
		315+91.12 to 316+08.82	RT			17.9			17.9						
		316+08.82 to 316+09.13	RT			0.4			0.4						
		316+09.13 to 316+09.43	RT			3.8			3.8						
		316+09.18 to 316+09.43	RT			0.4			0.4						
		316+20.50 to 316+20.72	LT			0.4			0.4						
		316+20.50 to 316+21.07	LT/RT			7.0			7.0						
		316+20.72 to 316+30.70	LT			10.0			10.0						
		316+21.07 to 316+21.28	RT			0.3			0.3						
		316+21.28 to 316+26.42	RT			5.3			5.3						
		316+26.42 to 316+33.07	RT			6.9			6.9						
		316+30.70 to 316+32.90	LT			3.0			3.0						
		316+32.90 to 316+34.60	LT/RT			7.8			7.8						
		316+33.07 to 316+34.60	RT			2.6			2.6						
		317+91.15 to 317+91.19	LT/RT			16.0			16.0						
		317+91.15 to 317+93.07	LT			2.7			2.7						
		317+91.19 to 317+93.53	RT			3.6			3.6						
		317+93.07 to 318+55.60	LT/RT			65.2			65.2						
		317+93.53 to 318+22.36	RT			28.9			28.9						
		318+22.36 to 318+29.74	RT			7.4			7.4						
		318+29.74 to 320+08.65	RT			178.9			178.9						
		318+55.60 to 318+89.30	LT/RT			34.4			34.4						
		318+80.23 to 319+55.77	LT			76.3			76.3						
		319+55.77 to 320+10.28	LT/RT			58.1			58.1						
		320+08.65 to 320+10.28	RT			6.9			6.9						
		321+01.55 to 321+01.56	RT			0.1			0.1						
		321+01.55 to 321+01.95	LT/RT			0.7			0.7						
		321+01.56 to 321+14.00	RT			14.7			14.7						
		321+01.95 to 322+86.20	LT			184.5			184.5						
		321+14.08 to 321+28.48	RT			14.9			14.9						
		321+28.48 to 321+29.34	RT			0.9			0.9						
		321+29.34 to 321+35.17	RT			5.9			5.9						
		321+35.18 to 321+35.33	RT			2.3			2.3						
		322+86.06 to 322+86.20	LT			2.3			2.3						
		322+86.06 to 322+86.20	LT			2.3			2.3						
		322+86.06 to 322+86.20	LT			2.3			2.3						
0520 1 10	Concrete Curb & Gutter, Type F	145+80.67 to 145+80.67	RT		LF	5.6			5.6		2458				
		145+80.67 to 145+83.27	RT			12.2			12.2						
		145+88.17 to 146+08.69	RT			23.0			23.0						
		146+08.69 to 147+10.31	RT			101.7			101.7						
		146+74.57 to 146+78.57	LT			4.0			4.0						
		146+78.57 to 147+64.00	LT			85.5			85.5						
		147+10.31 to 147+96.03	RT			86.5			86.5						

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES		200672	SQ-7


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

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY					TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P	F		
							TYPE	LENGTH	P	F				
0520 1 10	Concrete Curb & Gutter, Type F (CONT'D)	147+64.00 to 148+54.53	LT		LF	92.3			92.3					
		147+96.03 to 148+37.22	RT			42.7			42.7					
		148+37.22 to 148+56.58	RT			22.4			22.4					
		148+54.53 to 148+76.58	LT			23.7			23.7					
		148+56.58 to 148+87.48	RT			72.3			72.3					
		148+76.58 to 149+12.38	LT			78.5			78.5					
		149+52.58 to 150+09.01	RT			66.4			66.4					
		149+55.60 to 149+93.02	LT			87.0			87.0					
		149+93.02 to 150+04.46	LT			13.4			13.4					
		150+04.46 to 150+62.44	LT			60.2			60.2					
		150+09.01 to 150+65.50	RT			58.0			58.0					
		150+62.44 to 151+14.07	LT			52.5			52.5					
		150+65.50 to 151+18.05	RT			52.5			52.5					
		151+14.07 to 151+75.20	LT			61.7			61.7					
		151+18.05 to 151+23.90	RT			5.9			5.9					
		151+85.11 to 152+35.37	LT			50.3			50.3					
		152+35.37 to 152+86.66	LT			51.5			51.5					
		152+86.66 to 153+37.55	LT			51.0			51.0					
		153+37.55 to 153+43.40	LT			5.9			5.9					
		313+91.78 to 314+42.65	RT			50.9			50.9					
		314+24.94 to 314+43.12	LT			18.2			18.2					
		314+42.65 to 314+81.11	RT			40.7			40.7					
		314+43.12 to 314+68.74	LT			24.7			24.7					
		314+65.00 to 314+72.37	LT			9.2			9.2					
		314+72.37 to 314+86.16	LT			12.6			12.6					
		314+86.16 to 315+65.77	LT			72.5			72.5					
		314+87.21 to 314+99.13	RT			13.4			13.4					
		314+99.13 to 315+01.07	RT			2.3			2.3					
		315+01.07 to 315+91.25	RT			100.2			100.2					
		315+65.77 to 315+87.56	LT			21.8			21.8					
		317+95.04 to 318+48.59	LT			58.2			58.2					
		318+23.85 to 319+87.22	RT			163.4			163.4					
		318+48.59 to 319+03.65	LT			55.7			55.7					
		319+03.65 to 319+23.52	LT			20.0			20.0					
		319+33.39 to 319+67.88	LT			34.5			34.5					
		319+67.88 to 320+86.10	LT			118.2			118.2					
		319+67.88 to 321+45.16	LT			177.3			177.3					
		319+87.22 to 320+34.95	RT			72.9			72.9					
		321+55.16 to 322+79.94	LT			124.6			124.6					
0520 2 4	Concrete Curb, Type D	149+30.08 to 149+35.59	LT/RT		LF	205.8			205.8		206			
0520 2 8	Concrete Curb, Type RA	148+88.58 to 149+77.08	RT		LF	278.0			278.0		278			

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.  
P.E. LICENSE NUMBER 62449  
CARDNO, INC.  
380 PARK PLACE BOULEVARD, SUITE 300  
CLEARWATER, FLORIDA 33759



Lee County  
Southwest Florida  
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT GRIFFIN DRIVE  
INTERSECTION CONTROL (ROUNDAABOUT)

COUNTY PROJECT NO. 200672


SHT. NO. SQ-8

SUMMARY OF QUANTITIES

Wayne.Ponder1/19/202111:55:11 AMJ:\CR044\CR044002.02\ms\roadway\SUMORD01.DGN

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


SUMMARY OF SIDEWALK & DETECTABLE WARNINGS												
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		DETECTABLE WARNINGS		DIRECTIONAL INDICATORS		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 2		0527 2		0919-528			
					SY		SF		SF			
STA. TO STA.					P	F	P	F	P	F		
145+89.11 to 148+54.06	RT	17141			316.0							
147+12.62 to 149+00.59	LT	17118			248.4							
148+26.71 to 148+58.13	LT/RT	12260			37.2							
149+55.81 to 151+18.11	RT	17069			167.2							
149+81.90 to 151+61.74	LT	17046			188.3							
150+12.13 to 150+39.34	LT/RT	12275			30.7							
313+90.96 to 314+81.48	RT	12237			161.2						DRIVEWAY	
314+24.94 to 314+24.94	LT	12229			34.7						DRIVEWAY	
314+66.60 to 316+29.27	RT	17014			215.2							
315+40.29 to 316+47.42	LT	17031			85.7							
316+09.79 to 316+20.32	LT/RT	12288			6.6							
317+70.78 to 317+70.78	RT	17104			303.9							
317+98.50 to 319+64.50	LT	17086			211.8							
317+99.82 to 318+13.12	LT/RT	12253			13.2							
148+18.99 to 148+29.15	LT	20258					19.9					
148+25.69 to 148+35.57	RT	20259					19.8					
148+26.71 to 148+36.89	LT	20264					19.6					
148+45.97 to 148+55.61	RT	20265					19.6					
150+13.59 to 150+23.85	LT/RT	20266					19.6					
150+25.20 to 150+35.69	LT	20263					20.1					
150+28.96 to 150+39.33	RT	20267					19.9					
150+32.26 to 150+42.35	RT	20262					19.8					
316+08.06 to 316+17.97	LT	20256					20.7					
316+11.84 to 316+22.07	RT	20257					20.6					
318+00.68 to 318+11.46	RT	20269					20.2					
318+02.83 to 318+13.12	LT/RT	20270					20.0					
318+06.84 to 318+17.12	RT	20260					20.2					
318+13.23 to 318+23.64	LT	20261					20.2					
146+77.94 to 146+97.79	RT	20275							31.1			
147+81.42 to 147+99.77	LT	20276							28.1			
150+50.03 to 150+52.76	RT	20278							12.5			
150+70.28 to 150+90.75	LT	20277							30.7			
315+53.27 to 315+66.80	RT	20272							22.2			
315+97.40 to 316+00.58	LT	20271							12.5			
318+64.83 to 318+75.35	LT	20273							17.8			
319+26.64 to 319+49.67	RT	20274							35.7			
SUB-TOTAL:					2020.1		280.2		190.6			
TOTAL:					2020		280		191			

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	 DEPARTMENT OF TRANSPORTATION	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES		200672	SQ-9

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

SUMMARY OF DITCH PAVEMENT						
LOCATION	SIDE	AREA ID	DITCH PAVEMENT NON-REINFORCED (3" )		DESIGN NOTES	CONSTRUCTION REMARKS
			0524	1 1		
			SY			
			P	F		
GATEWAY BLVD.						
145+99.33 to 146+02.60	RT	24949	0.6		CLOSED FLUME	
148+01.71 to 148+04.43	RT	20478	2.7		CLOSED FLUME	
151+79.00 to 151+81.00	LT	23043	0.7		OPEN FLUME	
GRIFFIN DR.						
319+25.86 to 319+29.01	LT	14527	2.7		OPEN FLUME	
319+90.25 to 319+95.95	RT	23053	3.2		CLOSED FLUME	
321+49.00 to 321+51.00	LT	23048	3.1		OPEN FLUME	
SUB-TOTAL :			12.9			
TOTAL :			13			

SUMMARY OF PERFORMANCE TURF						
LOCATION	SIDE	AREA ID	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
			0570	1 2		
STA. TO STA.			SY			
			P	F		
145+78.59 to 148+31.78	LT/RT	20455	568.4			
145+80.67 to 148+48.57	RT	20969	642.6			
145+81.39 to 145+89.41	RT	20834	4.3			
145+88.69 to 146+81.89	RT	20842	49.6			
146+63.66 to 148+79.92	LT	20757	326.1			
146+85.54 to 147+99.45	RT	20866	60.1			
147+13.67 to 147+85.89	LT	20779	117.9			
147+77.58 to 148+12.41	LT	20794	17.1			
148+04.45 to 148+19.42	RT	20889	8.0			
148+34.49 to 149+05.80	LT	20747	44.6			
148+37.26 to 148+67.85	LT/RT	21100	49.1			
148+39.09 to 148+85.40	RT	20894	35.3			
149+30.08 to 149+30.08	RT	20436	374.4			
149+57.92 to 150+26.82	RT	21093	41.6			
149+66.47 to 150+20.26	LT	20639	18.8			
149+71.80 to 151+23.90	RT	21070	321.5			
149+78.47 to 153+43.40	LT	20554	1096.0			
149+98.37 to 150+28.36	LT/RT	20387	42.3			
150+24.72 to 153+43.54	LT/RT	20370	877.0			
150+42.18 to 150+84.62	LT	20602	19.7			
150+49.02 to 151+00.98	RT	21086	39.1			
313+72.30 to 313+82.69	LT	20547	11.2			
313+72.30 to 313+99.69	RT	20675	24.7			
313+88.47 to 314+03.83	RT	20682	4.2			
314+08.75 to 314+36.09	LT	20538	22.9			
314+64.30 to 316+42.55	RT	20688	114.0			
314+65.00 to 316+32.09	LT	20648	103.7			
314+76.61 to 315+56.22	RT	20702	44.2			
315+11.78 to 316+09.43	RT	20517	67.4			
315+59.66 to 316+04.93	RT	20729	23.4			
315+62.45 to 316+01.34	LT	20661	13.2			
316+20.72 to 316+34.60	LT/RT	20527	13.1			
316+23.74 to 316+33.30	LT	20670	2.4			
317+79.88 to 320+34.95	RT	20950	819.2			
317+90.13 to 318+09.52	LT	21063	12.3			
317+91.15 to 320+10.28	LT/RT	20300	332.9			
317+96.93 to 322+85.80	LT	20983	1923.1			
318+23.80 to 319+40.40	RT	20901	61.0			
318+29.85 to 318+79.41	LT	21030	26.8			
319+45.37 to 319+97.21	RT	20918	25.4			
320+61.09 to 321+35.18	RT	20335	270.3			
321+01.55 to 322+86.70	LT/RT	20341	336.6			
SUB-TOTAL :			9005.5			
TOTAL :			9006			


REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDAABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES		200672	SQ-10

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




SUMMARY OF ROOT BARRIER						
LOCATION	SIDE	ROOT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS	
		***				
		LF				
P		F				
STA. TO STA.						
145+84.67 to 146+63.54	RT	78.9				
145+96.71 to 146+08.70	RT	18.9				
146+08.70 to 146+63.58	RT	54.9				
146+63.54 to 147+52.42	RT	89.2				
146+63.58 to 147+59.19	RT	96.0				
146+74.56 to 147+63.93	LT	89.5				
146+80.01 to 147+61.44	LT	81.5				
147+12.61 to 147+20.98	LT	8.4				
147+13.53 to 147+30.26	LT	16.9				
147+20.98 to 147+63.39	LT	44.3				
147+30.26 to 147+58.73	LT	30.1				
147+52.42 to 148+16.03	LT/RT	64.3				
147+57.58 to 147+82.13	LT	26.4				
147+58.73 to 147+82.13	LT	25.1				
147+59.19 to 147+98.43	RT	39.7				
147+61.44 to 148+15.17	LT	53.9				
147+63.39 to 148+22.24	LT	60.8				
147+63.93 to 147+82.13	LT	19.2				
147+98.43 to 148+29.16	RT	31.9				
148+15.17 to 148+16.03	LT	5.8				
148+22.24 to 148+48.62	LT	27.7				
148+29.16 to 148+48.52	RT	22.4				
148+48.52 to 148+71.57	RT	54.0				
148+48.62 to 148+70.66	LT	23.7				
148+70.66 to 148+96.59	LT	56.8				
149+62.93 to 150+15.13	RT	61.4				
149+66.56 to 150+11.90	LT	89.3				
150+11.90 to 150+25.28	LT	14.1				
150+15.13 to 150+65.51	RT	51.7				
150+25.28 to 150+59.89	LT	35.1				
150+40.35 to 150+41.09	RT	8.0				
150+40.35 to 150+50.35	RT	10.1				
150+41.09 to 150+65.43	RT	24.4				
150+50.35 to 151+21.42	LT/RT	72.6				
150+59.90 to 150+86.17	LT	26.7				
150+65.43 to 151+24.04	RT	58.6				
150+65.51 to 150+77.46	RT	11.9				
150+65.51 to 151+24.04	RT	58.5				
150+86.17 to 151+16.40	LT	32.6				
150+90.23 to 150+98.91	LT	8.8				
150+90.23 to 151+21.69	LT	34.1				
150+98.91 to 151+13.93	LT	15.3				
151+13.87 to 152+35.46	LT	122.2				
151+16.40 to 151+61.66	LT	47.7				
151+21.42 to 152+31.87	LT	111.1				
SUB-TOTAL:		2014.5				
TOTAL:		4249				

SUMMARY OF ROOT BARRIER						
LOCATION	SIDE	ROOT BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS	
		***				
		LF				
P		F				
STA. TO STA.						
151+21.69 to 151+61.75	LT	42.3				
152+31.87 to 152+84.16	LT	52.5				
152+35.46 to 152+86.74	LT	51.5				
152+84.16 to 153+43.54	LT	59.5				
152+86.74 to 153+43.55	LT	56.9				
314+66.09 to 314+72.83	LT	8.5				
314+66.57 to 314+95.07	RT	34.6				
314+72.83 to 314+86.10	LT	12.1				
314+86.10 to 315+40.13	LT	48.0				
314+95.05 to 315+95.40	RT	117.2				
315+22.20 to 315+22.70	RT	3.4				
315+22.20 to 315+87.44	RT	67.7				
315+22.70 to 315+69.18	RT	47.1				
315+40.13 to 315+79.31	LT	38.7				
315+69.18 to 315+91.13	RT	21.9				
315+79.31 to 315+87.42	LT	8.1				
315+87.44 to 315+91.65	RT	4.3				
315+91.13 to 315+91.65	RT	2.4				
318+06.13 to 318+54.35	LT	51.9				
318+23.77 to 319+87.15	RT	163.4				
318+54.35 to 318+85.39	LT	35.4				
318+55.78 to 318+55.80	RT	4.3				
318+55.78 to 320+08.65	RT	152.9				
318+55.80 to 318+89.50	LT/RT	34.4				
318+75.09 to 318+91.78	LT	17.7				
318+75.09 to 318+93.98	LT	22.5				
318+80.45 to 319+55.81	LT	76.1				
318+85.39 to 319+61.94	LT	81.7				
318+91.78 to 319+03.49	LT	11.9				
318+93.98 to 319+63.98	LT	74.9				
319+03.49 to 319+23.41	LT	20.1				
319+03.49 to 319+23.41	LT	20.1				
319+23.41 to 319+67.88	LT	44.6				
319+55.81 to 320+09.69	LT/RT	57.4				
319+67.88 to 320+86.10	LT	118.2				
319+87.15 to 320+18.76	RT	46.2				
320+08.65 to 320+09.69	RT	3.3				
320+62.08 to 321+35.17	RT	95.5				
320+85.97 to 322+85.95	LT	199.9				
321+02.83 to 321+14.26	RT	13.4				
321+02.83 to 322+86.25	LT/RT	183.6				
321+14.37 to 321+28.54	RT	14.6				
321+28.54 to 321+35.38	RT	6.9				
321+28.54 to 321+35.38	RT	6.9				
SUB-TOTAL:		2234.5				

REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759	<div> DEPARTMENT OF TRANSPORTATION</div>	GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDBOUT)	COUNTY PROJECT NO.  200672	SHT. NO.  SQ-11
DATE	DESCRIPTION	DATE	DESCRIPTION					

SUMMARY OF QUANTITIES					
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REVISIONS				JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 CARDNO, INC. 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759		GATEWAY BOULEVARD AT GRIFFIN DRIVE INTERSECTION CONTROL (ROUNDABOUT)		COUNTY PROJECT NO.	SHT. NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			SUMMARY OF QUANTITIES		200672	SQ-11

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