CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LEE COUNTY PROJECT NO. 0671

INDEX OF ROADWAY PLANS

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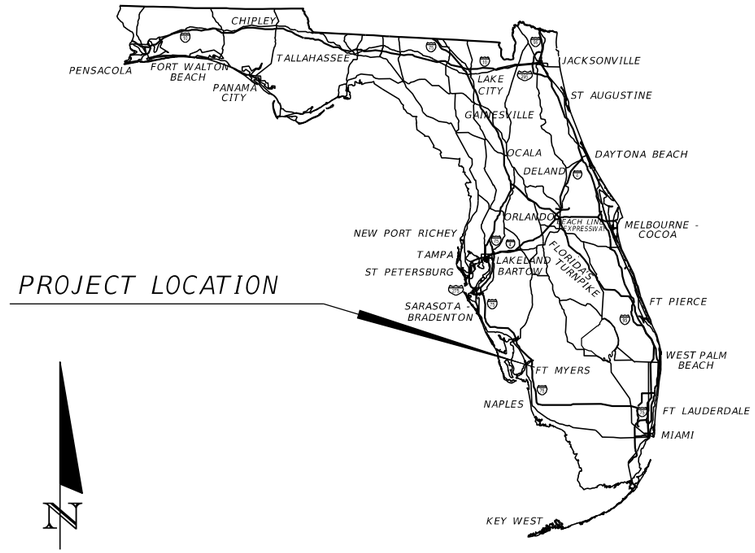
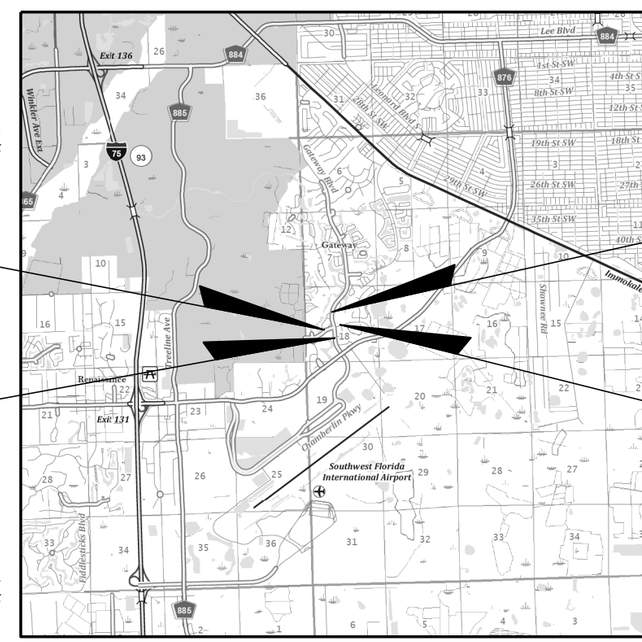


R-25-E
R-26-E

T-44-S
T-45-S

T-44-S
T-45-S



BEGIN CONSTRUCTION
COMMERCE LAKES DR.
℄ SURVEY
STA. 205+79.38

END PROJECT
GATEWAY BLVD.
℄ SURVEY
STA. 113+03.08

BEGIN PROJECT
GATEWAY BLVD.
℄ SURVEY
STA. 105+18.68

END CONSTRUCTION
COMMERCE LAKES DR.
℄ SURVEY
STA. 215+20.46

T-45-S
T-46-S

T-45-S
T-46-S

R-25-E
R-26-E

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 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, JULY2019 Standard Specifications for Road and Bridge Construction at the following website:
http://www.fdot.gov/programmanagement/Implemented/SpecBooks

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.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	19	1

JASON Y. YAM
LICENSE
No 62449
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE SHOULD BE VERIFIED ON THE ELECTRONIC DOCUMENTS,

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

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
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SQ-1 - SQ-10	SUMMARY OF QUANTITIES

CHRISTOPHER J. KNOX
LICENSE
No 67350
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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CHRISTOPHER J. KNOX, P.E. 67350

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SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
7	SUMMARY OF DRAINAGE STRUCTURES
23-24	DRAINAGE STRUCTURES
39-42	EROSION CONTROL

KEVIN H. SCOTT
LICENSE
No 65514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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TIERRA
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
PHONE NUMBER: (727) 531-3505
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
2	SIGNATURE SHEET
25	ROADWAY SOIL SURVEY

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
CERTIFICATE OF AUTHORIZATION 29915

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SIGNATURE SHEET

COUNTY PROJECT NO. 0671

SHT. NO. 2

SUMMARY OF ROADWAY

PAY ITEM	DESCRIPTION	UNITS
0101-1	MOBILIZATION	LS
0102-1	MAINTENANCE OF TRAFFIC	LS/DA
0102- 2- 1	SPECIAL DETOUR 1	LS
0102- 2- 2	SPECIAL DETOUR 2	LS
0102- 2- 3	SPECIAL DETOUR 3	LS
0102- 3-	COMMERCIAL MATERIAL FOR TEMPORARY DRIVEWAY MAINTENANCE	CY
0102- 60-	WORK ZONE SIGN	ED
0102- 71- 13	BARRIER WALL, TEMPORARY, F&I, LOW PROFILE, CONCRETE	LF
0102- 71- 23	BARRIER WALL, TEMPORARY, RELOCATE, LOW PROFILE, CONCRETE	LF
0102- 74- 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED
0102- 76-	ARROW BOARD / ADVANCE WARNING ARROW PANEL	EA
0102- 78-	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA
0102- 99-	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED
0104- 10- 3	SEDIMENT BARRIER	LF
0104- 15-	SOIL TRACKING PREVENTION DEVICE	EA
0104- 18-	INLET PROTECTION SYSTEM	EA
0107- 1-	LITTER REMOVAL	AC
0107- 2-	MOWING	AC
0110- 1- 1	CLEARING & GRUBBING	LS/AC
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY
0120 1	REGULAR EXCAVATION	CY
0120 6	EMBANKMENT	CY
0160-4	TYPE B STABILIZATION	SY
0285-706	OPTIONAL BASE GROUP 6	SY
0286-1	TURNOUT CONSTRUCTION	SY
0334-1-53	SUPERPAVE ASPHALT CONC, TRAFFIC LEVEL C, PG76-22	TN
0337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG76-22	TN
0350-30-13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	SY
0400-0-11	CONCRETE CLASS NS, GRAVITY WALL	CY
0425-1-201	INLETS, CURB, TYPE 9, < 10'	EA
0425-1-205	INLETS, CURB, TYPE 9, < 10' (Partial)	EA
0425-1-321	INLETS, CURB, TYPE P-2, < 10'	EA
0425-1-325	INLETS, CURB, TYPE P-2, (Partial)	EA
0425-1-561	INLETS, DITCH BOTTOM, TYPE F, <10'	EA
0425-1-701	INLETS, GUTTER, TYPE S, <10' (Partial)	EA
0430-175-118	PIPE CULVERT, CONCRETE, ROUND 18" ID	LF
0430-175-215	PIPE CULVERT, CONCRETE, ELLIPTICAL, 12" x 18" ID	LF
0430-175-218	PIPE CULVERT, CONCRETE, ELLIPTICAL, 14" x 23" ID	LF
0430-982-625	MITERED END SECTION, CROSS DRAIN, 12"x18" ERCP	EA
515-2-313	PEDESTRIAN/BICYCLE RAILING, ALUMINUM, SUNSHINE INFILL PANEL	LF
0520- 1- 7	CONCRETE CURB & GUTTER, TYPE E	LF
0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF
0520-2-4	CONCRETE CURB, TYPE D	LF
0520-2-8	CONCRETE CURB, TYPE RA	LF
0522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY
0527-2	DETECTABLE WARNINGS	SF
0570-1-2	PERFORMANCE TURF, SOD	SY

SUMMARY OF ROADWAY CONT.

PAY ITEM	DESCRIPTION	UNITS
0710-11-101	PAINTED PAVT MARK, STANDARD, WHITE, SOLID, 6"	GM
0710-11-102	PAINTED PAVT MARK, STANDARD, WHITE, SOLID, 8"	GM
0710-11-123	PAINTED PAVT MARK, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF
0710-11-124	PAINTED PAVT MARK, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF
0710-11-125	PAINTED PAVT MARK, STANDARD, WHITE, SOLID, 24" FOR CROSSWALK	LF
0710-11-131	PAINTED PAVT MARK, OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM
0710-11-141	PAINTED PAVT MARK, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM
0710-11-144	PAINTED PAVT MARK, STANDARD, WHITE, 2-2 DOTTED GUIDELINE, 12" FOR ROUNDABOUT	GM
0710-11-160	PAINTED PAVT MARK, STANDARD, WHITE, MESSAGE	EA
0710-11-170	PAINTED PAVT MARK, STANDARD, WHITE, ARROW	EA
0710-11-201	PAINTED PAVT MARK, STANDARD, YELLOW, SOLID, 6"	GM
0710-11-224	PAINTED PAVT MARK, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF
0999-25	CONTINGENCY	LS

SUMMARY OF SIGNING AND PAVEMENT MARKINGS

PAY ITEM	DESCRIPTION	UNITS
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS
706-3	RETROREFLECTIVE PAVEMENT MARKERS (RPMs)	EA
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM
711-11-144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED GUIDELINE, 12" FOR ROUNDABOUT	GM
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA
711-16-101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM
711-16-102	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 8"	GM
711-16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM
711-16-201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM

SUMMARY OF LIGHTING

PAY ITEM	DESCRIPTION	UNITS
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO 8 TO NO 6	LF
715-4-12	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT	EA
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA

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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

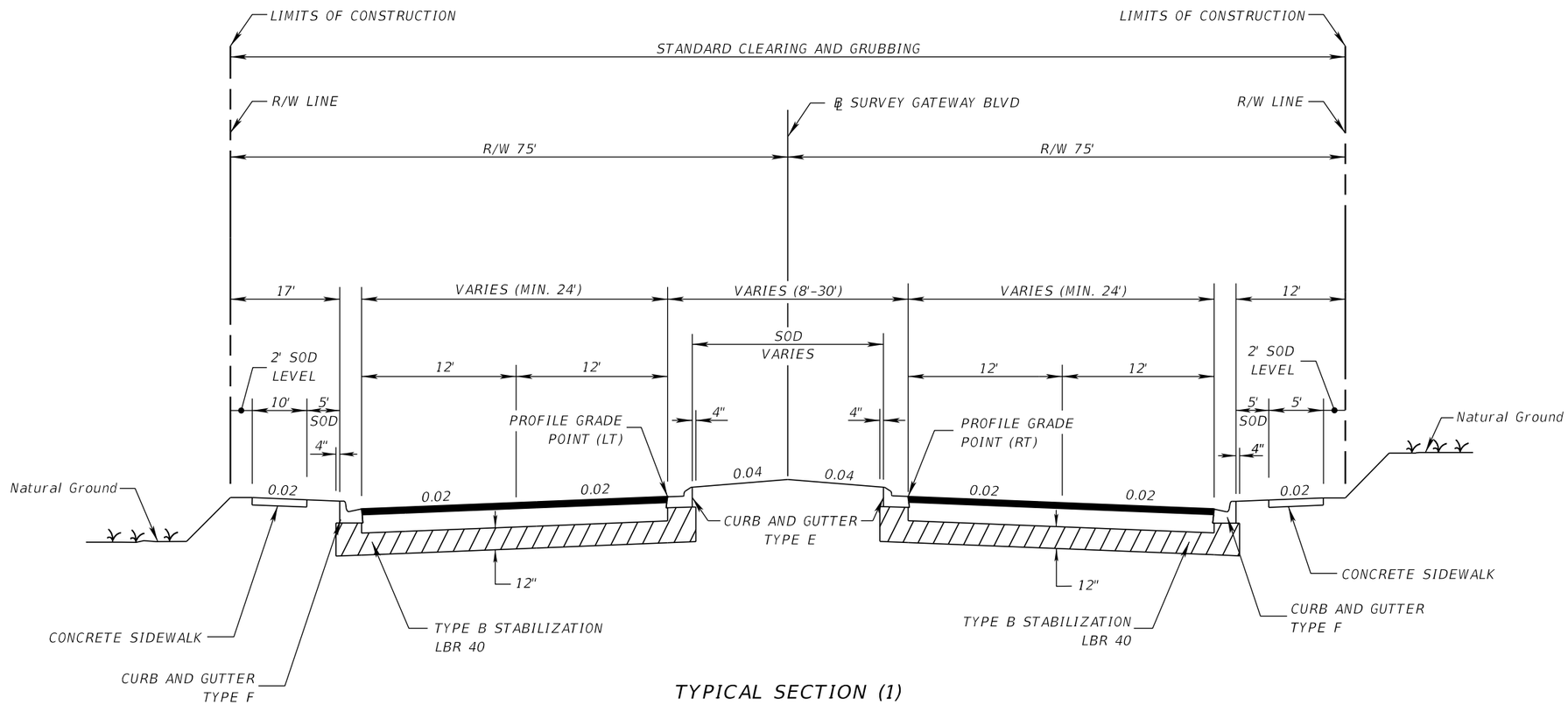
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF PAY ITEMS

COUNTY PROJECT NO.: 0671

SHT. NO.: 3



TYPICAL SECTION (1)
GATEWAY BLVD
STA. 105+19.88 TO STA. 113+03.08

NEW CONSTRUCTION

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

TRAFFIC DATA

CURRENT YEAR = 2019 AADT = 23,100
ESTIMATED OPENING YEAR = 2020 AADT = 23,200
ESTIMATED DESIGN YEAR = 2040 AADT = 24,407
DESIGN HOUR T = 3.4%
DESIGN SPEED = 35 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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380 PARK PLACE BOULEVARD, SUITE 300
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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

TYPICAL SECTION (1)

COUNTY PROJECT NO. 0671

SHT. NO. 4

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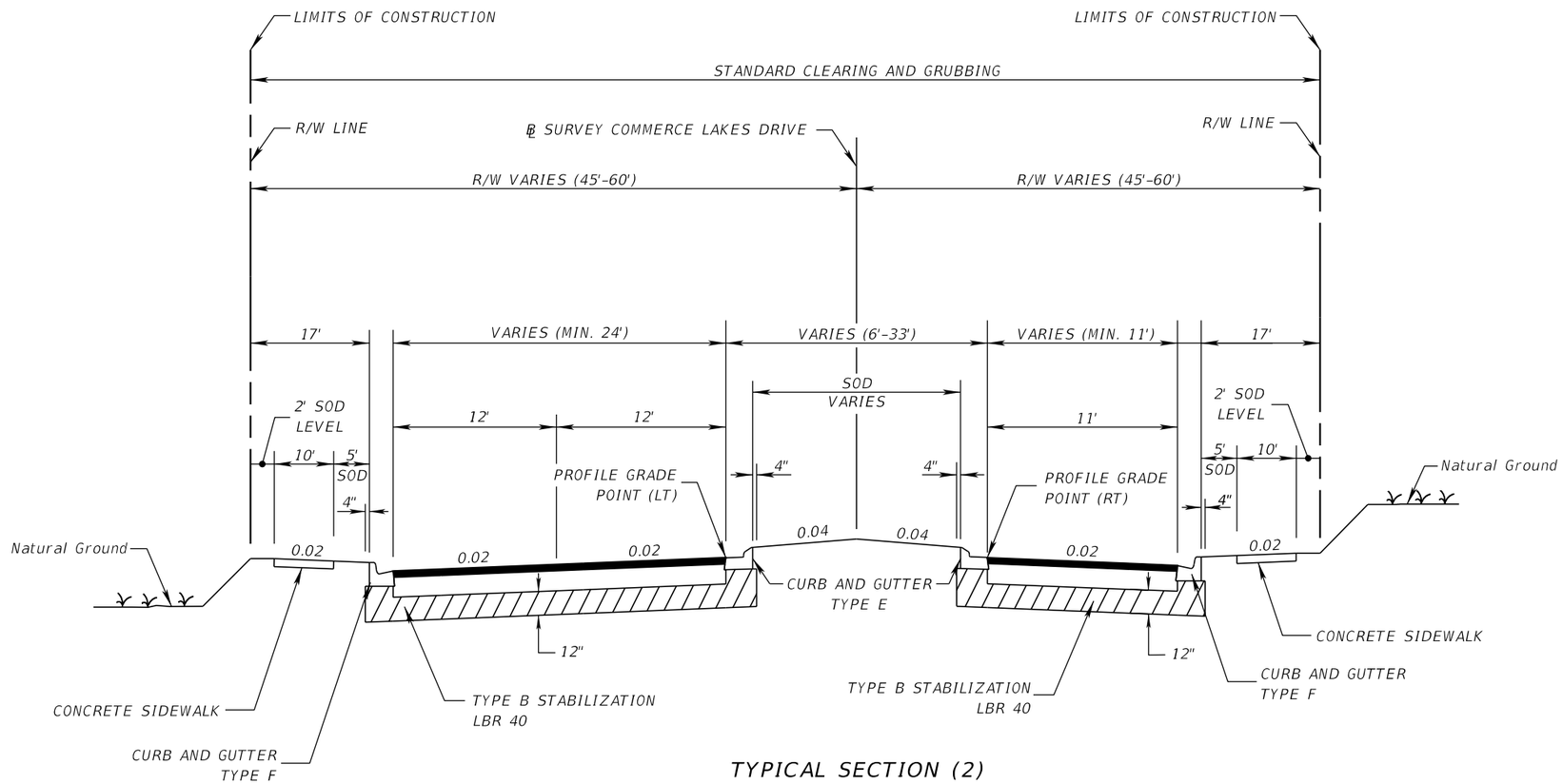

TYPICAL SECTION (2)
COMMERCE LAKES DRIVE
STA. 205+79.38 TO STA. 215+20.46

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 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

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

TYPICAL SECTION (2)

COUNTY PROJECT NO.	SHT. NO.
0671	5

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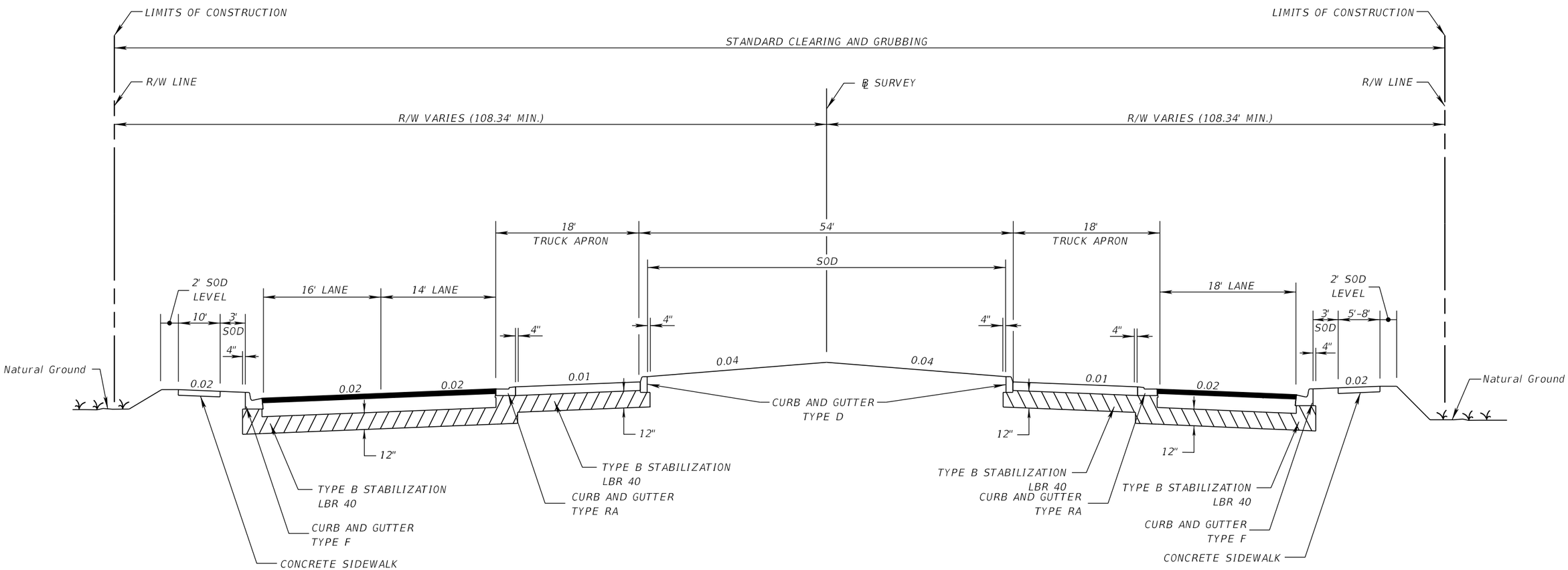

TYPICAL SECTION (3)
GATEWAY BLVD AT COMMERCE LAKES DR.
ROUNDABOUT

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 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 = 2020 AADT = 23,200
ESTIMATED DESIGN YEAR = 2040 AADT = 24,407
DESIGN HOUR T = 3.4%
DESIGN SPEED = 35 MPH

REVISIONS			
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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

TYPICAL SECTION (3)

COUNTY PROJECT NO.	SHT. NO.
0671	6

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QTY.	STRUCT. NO.	STATION	SIDE	DESCRIPTION	LENGTH	BARRELS	STORM SEWER PIPE		CURB INLETS					DITCH BOTTOM INLETS	GUTTER INLET	MITERED END SECTIONS	DITCH PAVT (SY)	REMARKS
							OTHER		P-2	P-2 PARTIAL	P-5	P-9	P-9 PARTIAL	F	S PARTIAL	2:1		
							12"X18"	19"X23"	<10	<10	<10	<10	<10	<10	<10	12"X18"		
P	S-100	209+00	RT	INLET		1												
P	S-101	209+00	LT	INLET		1												
P	S-102	213+00	RT	INLET (PARTIAL)		1												
P	S-103	213+00	LT	INLET (PARTIAL)		1												
P	S-104	213+50	LT	INLET (PARTIAL)		1												
P	S-200	106+61	RT	DBI & PIPE		1												
P	S-201	106+89	LT	DBI & PIPE		1												
P	S-202	106+89	LT	MES		1												
P	S-203	109+80	RT	INLET & PIPE		1												
SHEET TOTALS				PLAN QUANTITY			0	0	0	0	0	0	0	0	0	0	0	
				FINAL QUANTITY														

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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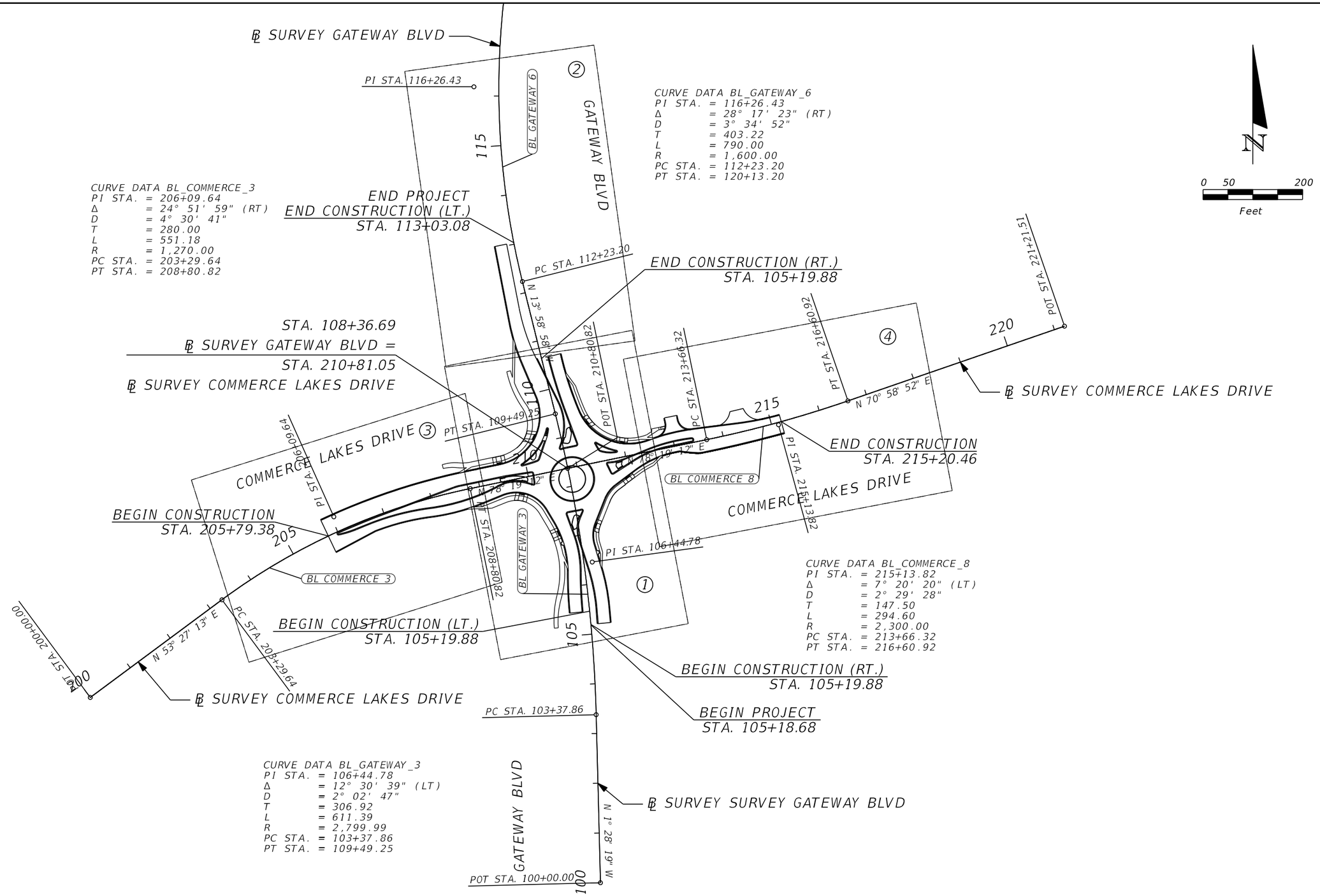
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF DRAINAGE STRUCTURES

COUNTY PROJECT NO.: 0671

SHT. NO.: 7



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

PROJECT LAYOUT

COUNTY PROJECT NO.	SHT. NO.
0671	8

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COORDINATE TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
122	809840.02'	737322.14'	28.36'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
130	809778.82'	737211.19'	27.04'	SET N-D "CARDNO T.P. LB 7975"
123	809894.71'	737559.52'	25.64'	SET N-D "CARDNO T.P. LB 7975"
124	809962.29'	737795.09'	25.48'	SET N-D "CARDNO T.P. LB 7975"
125	810003.95'	737813.64'	25.73'	SET N-D "CARDNO T.P. LB 7975"
126	809906.15'	737296.18'	28.48'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
127	810149.73'	737235.87'	26.45'	SET N-D "CARDNO T.P. LB 7975"
128	810392.61'	737183.96'	26.06'	SET N-D "CARDNO T.P. LB 7975"
129	809897.11'	737170.60'	27.13'	SET N-D "CARDNO T.P. LB 7975"
131	809783.81'	736952.21'	28.00'	SET 5/8" IR&C "CARDNO T.P. LB 7975"

COORDINATE TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
132	809651.32'	736731.37'	27.69'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
133	809731.90'	736671.33'	28.02'	SET N-D "CARDNO T.P. LB 7975"
134	809498.30'	737231.78'	26.88'	SET N-D "CARDNO T.P. LB 7975"
135	809611.40'	737291.19'	27.61'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
136	809440.05'	737353.83'	28.16'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
137	809177.49'	737384.98'	26.71'	SET 5/8" IR&C "CARDNO T.P. LB 7975"
138	809163.19'	737243.28'	26.64'	SET N-D "CARDNO T.P. LB 7975"
139	810579.94'	737116.84'	27.27'	SET N-D "CARDNO T.P. LB 7975"
140	810428.77'	737048.91'	26.29'	SET N-D "CARDNO T.P. LB 7975"
141	810172.10'	737103.05'	26.67'	SET N-D "CARDNO T.P. LB 7975"

LEGEND:

- ARV AIR RELEASE VALVE
- AUTO VACUUME
- BACKFLOW PREVENTER
- BACTERIAL SAMPLE POINT
- BENCH MARK
- BOLLARD
- CABLE RISER
- CTV CABLE TV BOX
- CB CATCH BASIN
- CENTERLINE
- CLEANOUT
- 001 COORDINATE NUMBER
- CONCRETE POWER POLE
- CONCRETE POST
- DRAINAGE MANHOLE
- ELECTRICAL BOX
- ELECTRIC OUTLET
- ELECTRIC MANHOLE
- EM ELECTRIC METER
- ET ELECTRIC TRANSFORMER W/ PAD
- ELECTRIC LINE
- ELECTRIC FLAG
- EXISTING ELEVATION
- FENCE - BARBED WIRE
- FENCE - CHAIN LINK / U.O.N.
- FENCE - WOOD / U.O.N.
- FIBER OPTIC MARKER / POST
- FIBER OPTIC BOX
- FIRE HYDRANT
- FV FIRE VALVE
- FLAG POLE
- FORCE MAIN
- FM ARV FORCE MAIN AIR RELEASE VALVE
- GAS PIPELINE MARKER
- GV GAS VALVE
- GATE ACTUATOR BOX
- GROUND LIGHT
- GREASE MANHOLE
- GUARD RAIL
- GUY POLE
- GUY WIRE
- HANDI-CAP PARKING
- HB HOSE BIB
- IRR IRRIGATION BOX
- IRR IRRIGATION VALVE
- LIGHT POLE
- MAIL BOX
- MITERED END
- WELL
- OVERHEAD POWER LINE
- OHT OVERHEAD TELEPHONE LINE
- PARKING PAY METER
- POWER POLE
- POWER POLE w/RISER
- PROPANE VALVE
- RECLAIM WATER LINE
- RECLAIM WATER LINE FLAG
- SEWER LINE FLAG
- SANITARY SEWER LINE
- SEWER MANHOLE
- SV SEWER VALVE
- SECURITY SENSOR
- SIGN SINGLE POST
- SIGN DOUBLE POST
- SPRINKLER
- STEEL POST
- TELEPHONE BOX OR VAULT
- TELEPHONE CANISTER
- TELEPHONE (BURIED) MARKER POST
- TELEPHONE MANHOLE
- TELEPHONE RISER
- TOE OF SLOPE
- TOP OF BANK
- TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL LIGHT
- UNDERGROUND UTILITIES
- UNKNOWN UTILITY VAULT
- UNKNOWN UTILITY MANHOLE
- WATER MAIN
- WATER LINE FLAG
- WM WATER METER
- WV WATER VALVE
- WOOD POST
- WOOD SUPPORT POLE
- YARD DRAIN
- XW CROSS WALK SIGNAL POLE
- CROSS WALK BUTTON POLE
- BUSH
- CABBAGE PALM
- OAK TREE
- PALM TREE
- PINE TREE
- SHADE TREE (VARIOUS TYPE)
- FOUND CONCRETE MONUMENT
- D.H. FOUND DRILL HOLE
- FOUND IRON ROD
- FOUND IRON ROD & CAP
- FOUND NAIL
- FOUND NAIL & DISK
- FOUND PARKER KALON NAIL
- FOUND PARKER KALON NAIL & DISK
- SET CONCRETE MONUMENT
- D.H. SET DRILL HOLE
- SET 5/8" IRON ROD & CAP "CARDNO LB 7975" U.O.N.
- SET MAG NAIL & DISK "CARDNO LB 7975" U.O.N.
- CONCRETE

ABBREVIATIONS:

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

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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

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

PROJECT CONTROL

COUNTY PROJECT NO.	SHT. NO.
0671	9

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 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	GRAIG CLARK	239-336-2003
COMCAST CABLE	LEONARD MAXWELL-NEWBOLD	754-221-1254
FLORIDA POWER AND LIGHT	JOEL BRAY	386-586-6403
GATEWAY SERVICES DISTRICT	SCOTT CONNELL	954-756-5841
LEE COUNTY UTILITIES	TERRY KELLEY	239-479-8181
TECO PEOPLES GAS (FT. MYERS)	JOAN DOMNING	813-275-3783

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 MAINTENANCE OF TRAFFIC.

8. IN ANY EXCAVATION WORK IT SHOULD BE NOTED THAT THE WATER TABLE IS HIGH IN THIS AREA.

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 ¼OF THE SLAB THICKNESS. PROVIDE PRE-FORMED EXPANSION JOINTS AT 50' ON CENTER.

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 2019-20, UNLESS OTHERWISE NOTED.

12. ALL PERVIOUS AREAS WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE GRASSED, SODDED, OR MULCHED; OR 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. WATER TABLE SHOWN ON CROSS SECTIONS MAY DIFFER FROM SEASONAL HIGH WATER TABLE (SHWT).

16. APPROPRIATE TURBIDITY CONTROL DEVICES SUCH AS SILT FENCES WILL BE UTILIZED DURING ALL PHASES OF INSTALLATION AND GRADING. 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.

17. 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.

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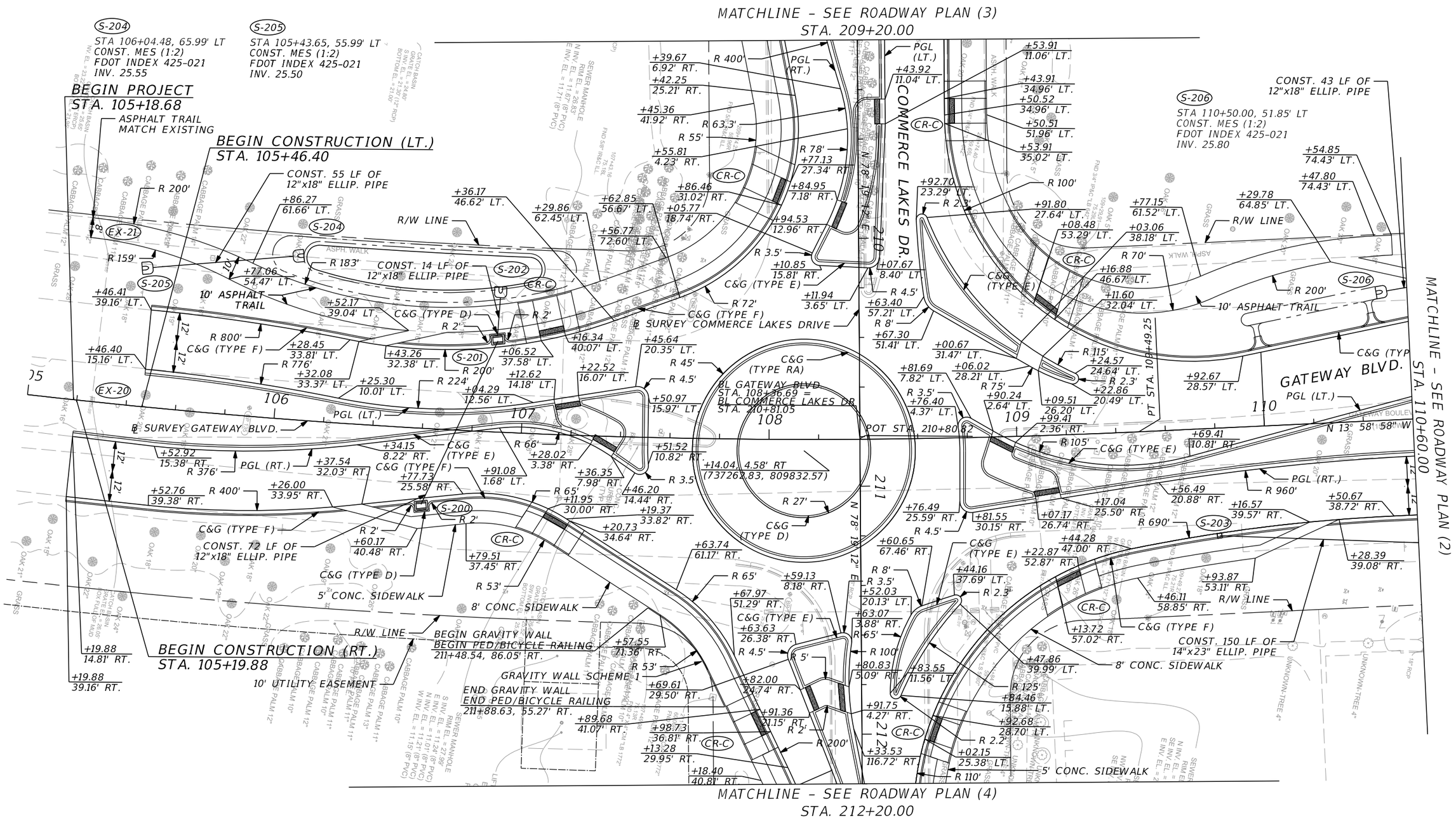

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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CARDNO, INC.
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CERTIFICATE OF AUTHORIZATION 29915

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PLAN (1)
(GATEWAY BOULEVARD)

COUNTY PROJECT NO.	SHT. NO.
0671	11

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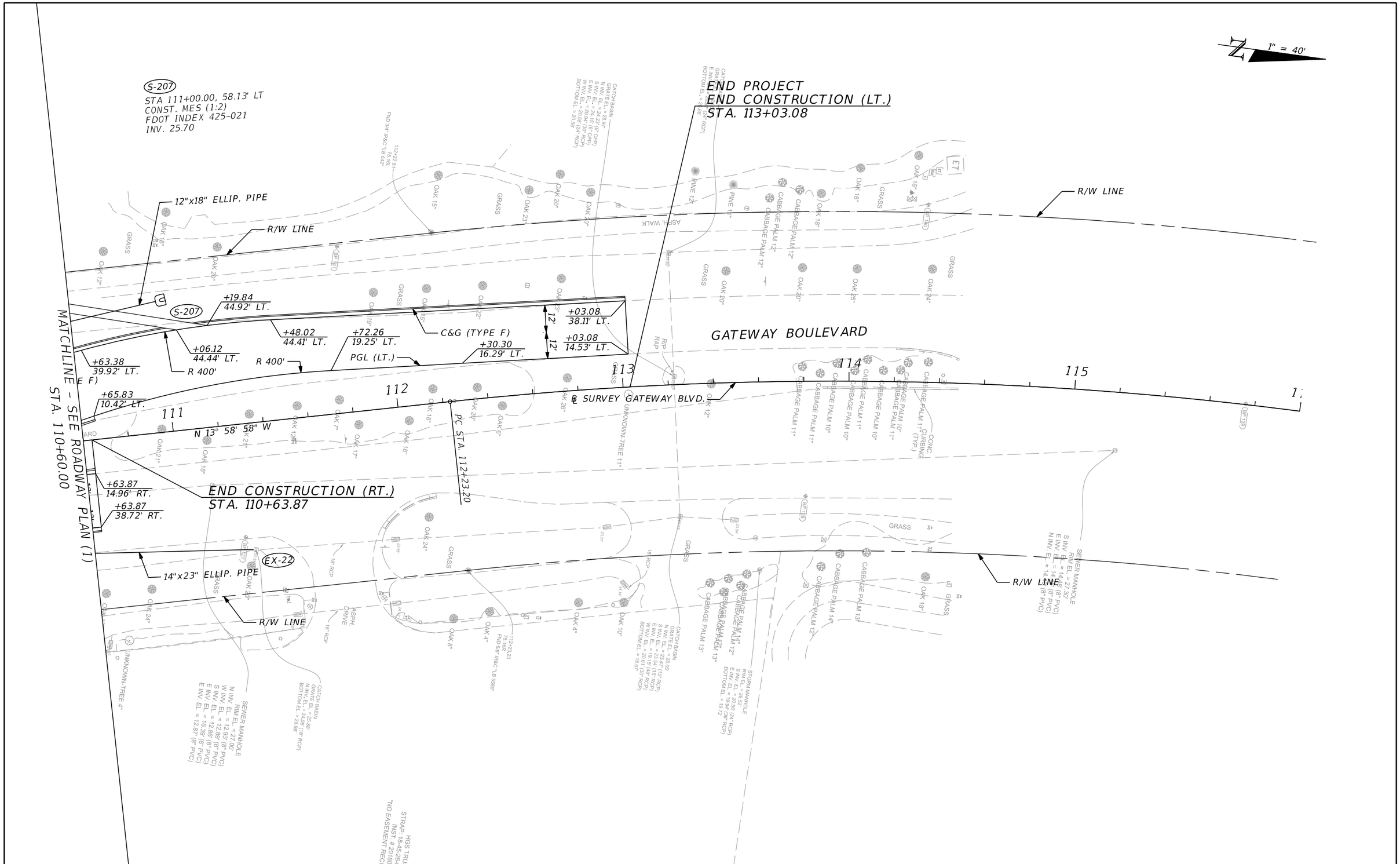

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PLAN (2)
(GATEWAY BOULEVARD)

COUNTY PROJECT NO.	SHT. NO.
0671	12

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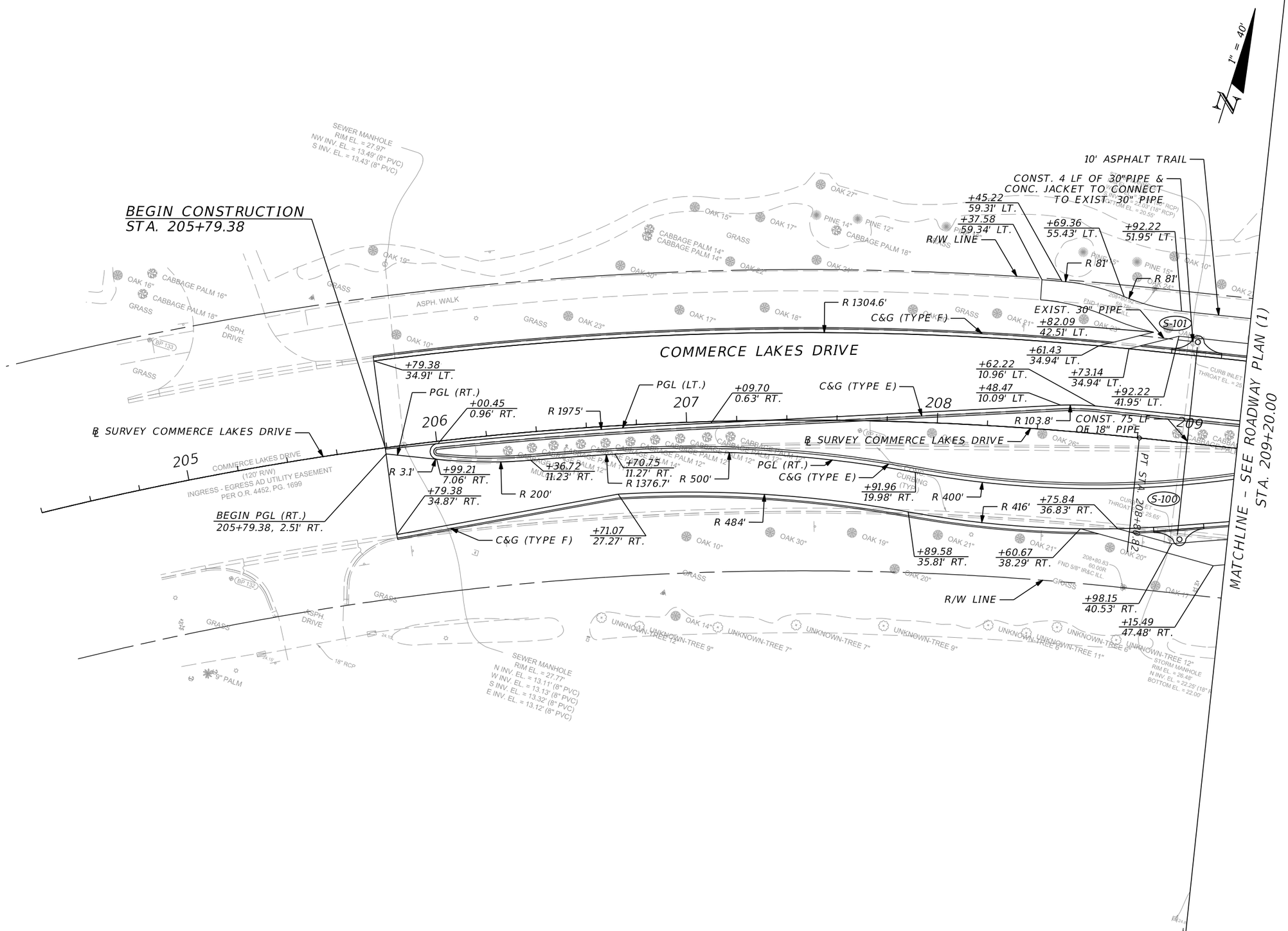

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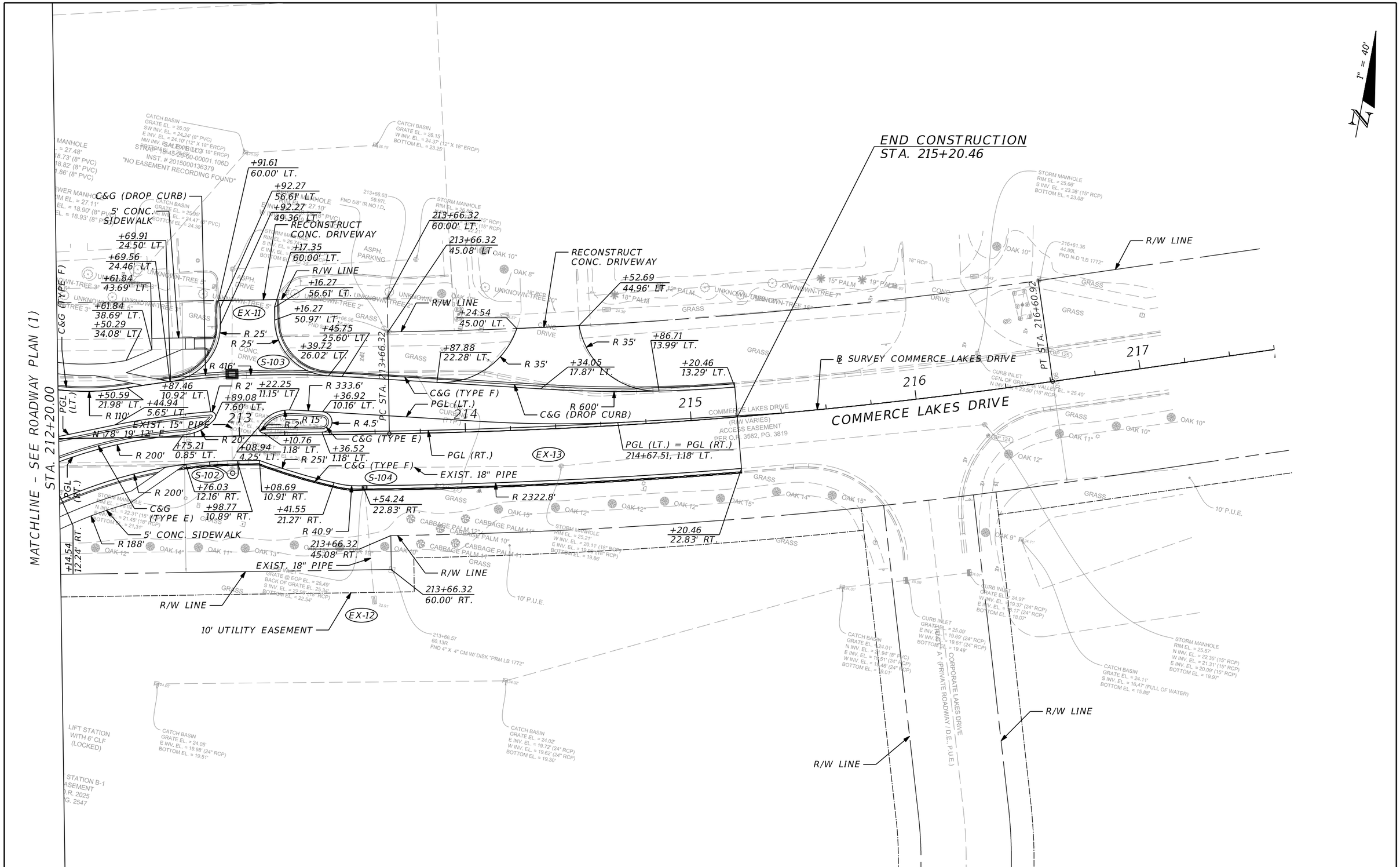
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PLAN (3)
(COMMERCE LAKES DRIVE)

COUNTY PROJECT NO.	SHT. NO.
0671	13



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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PLAN (4)
(COMMERCE LAKES DRIVE)

COUNTY PROJECT NO.	SHT. NO.
0671	14

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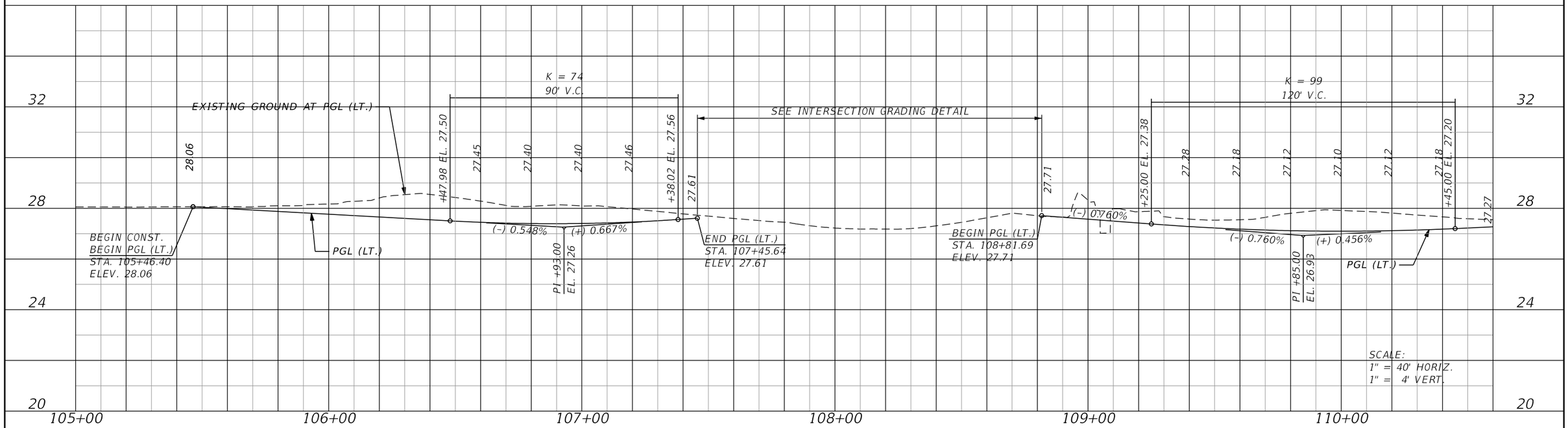

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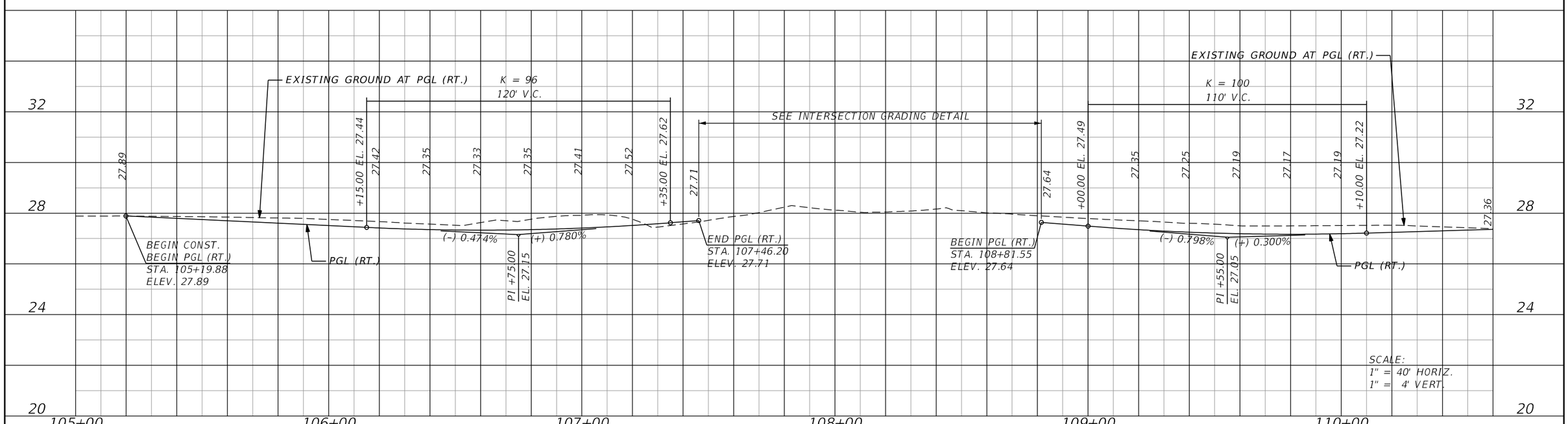

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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PROFILE (1)
(GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	15

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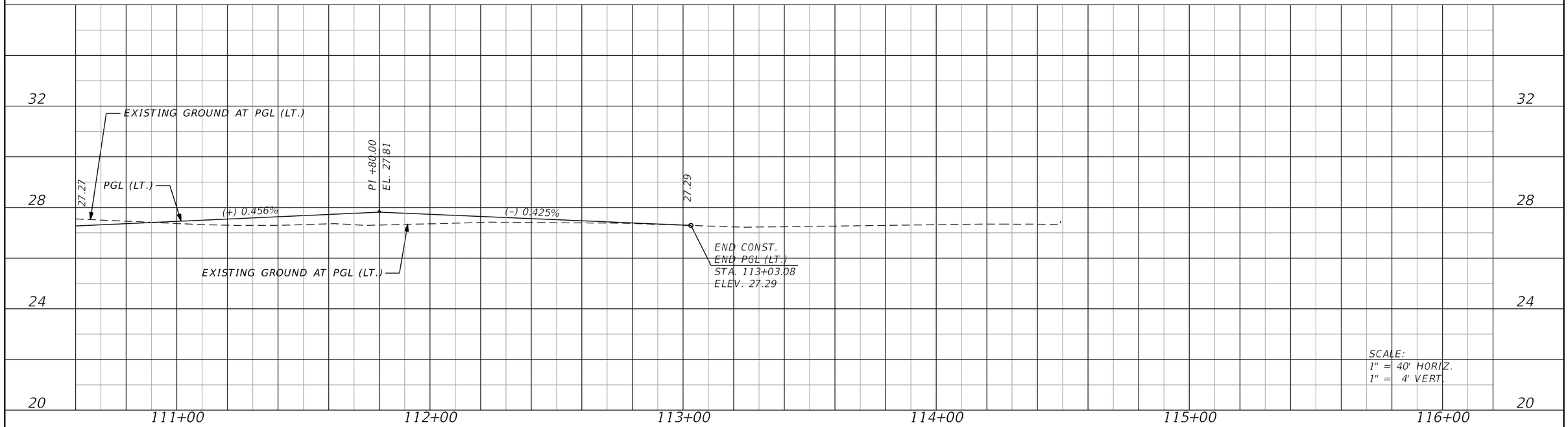

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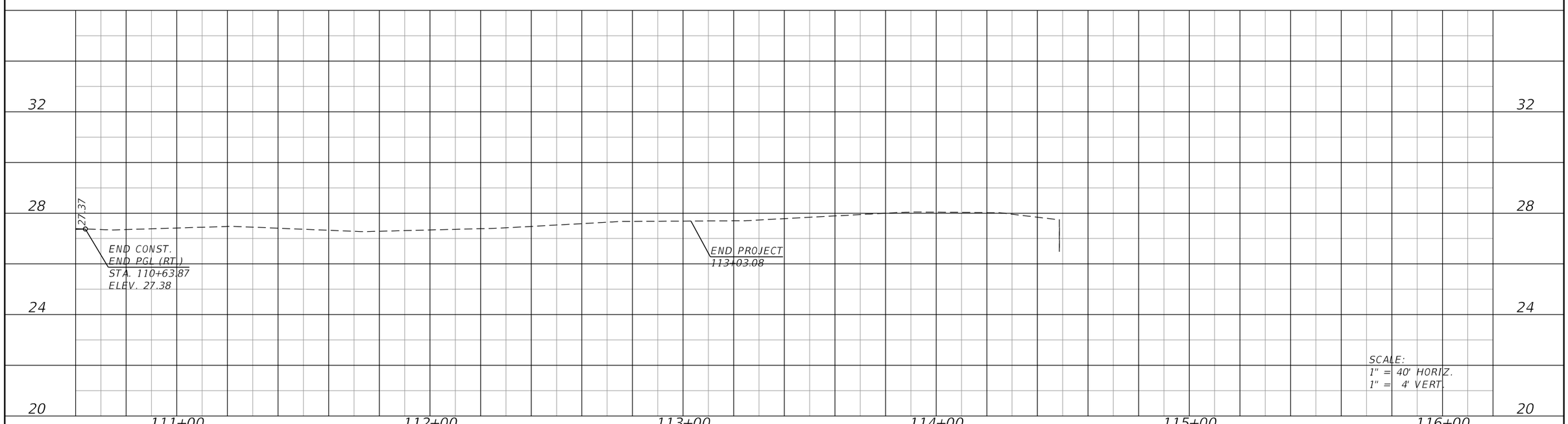

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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PROFILE (2)
(GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	16

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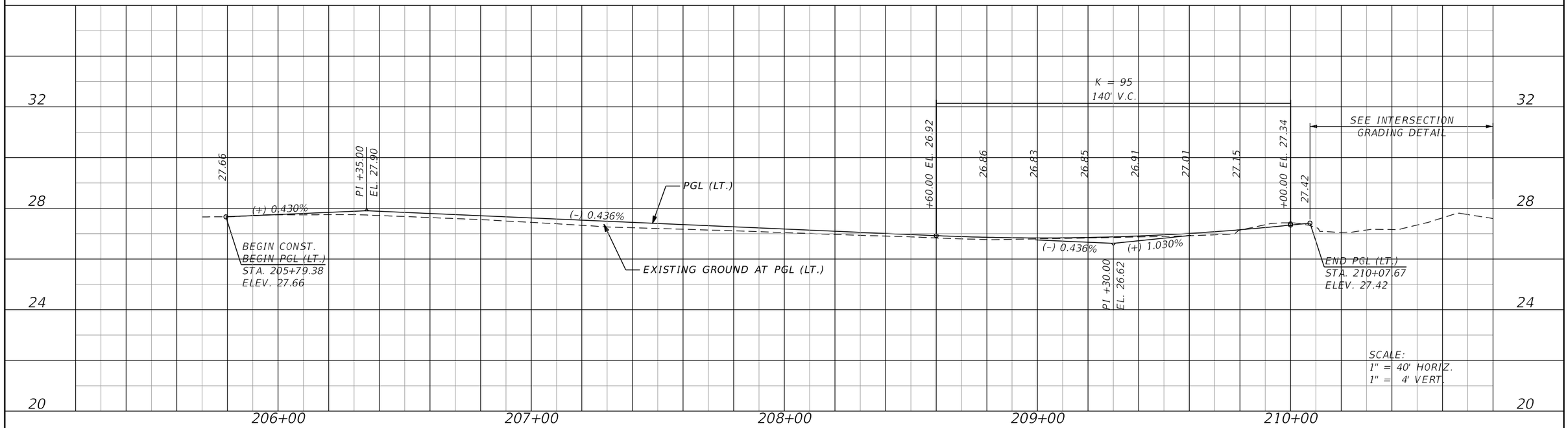

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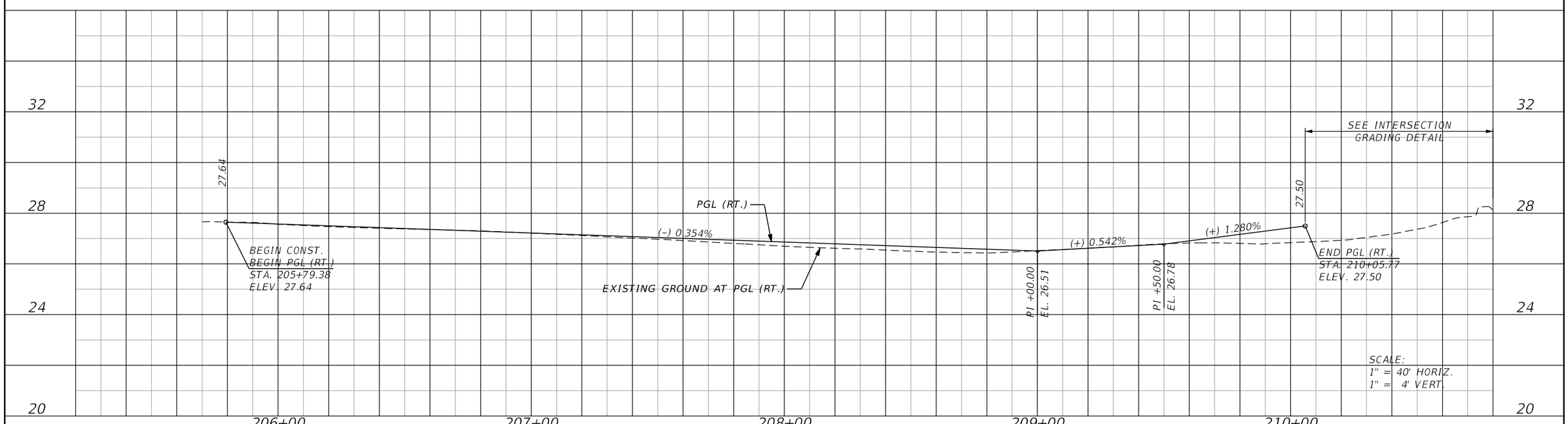

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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PROFILE (3)
(COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	17

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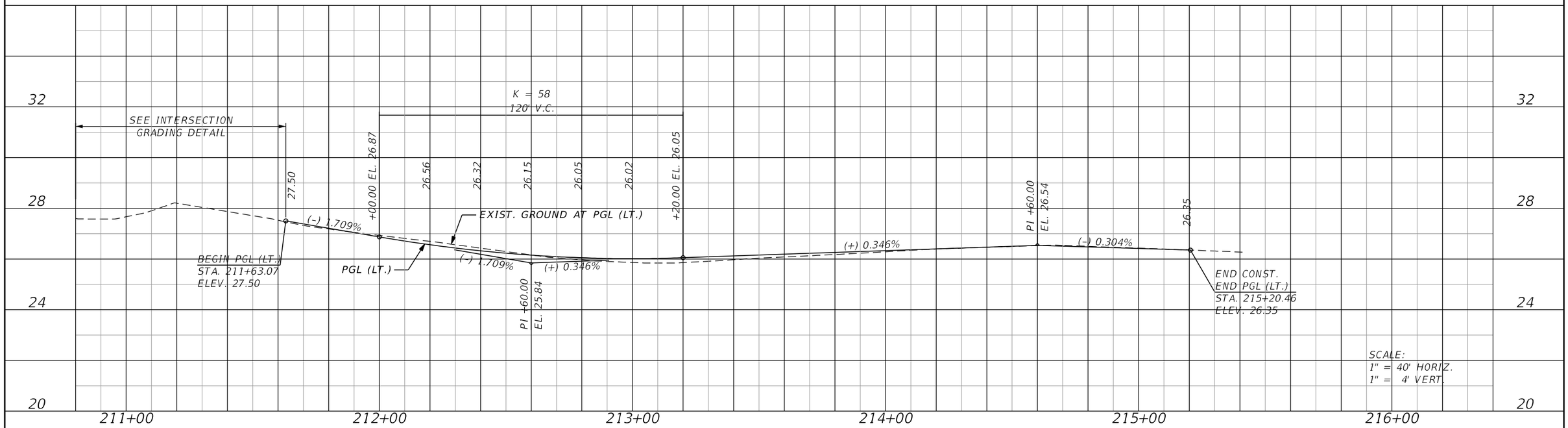
LEFT PROFILE GRADE LINE



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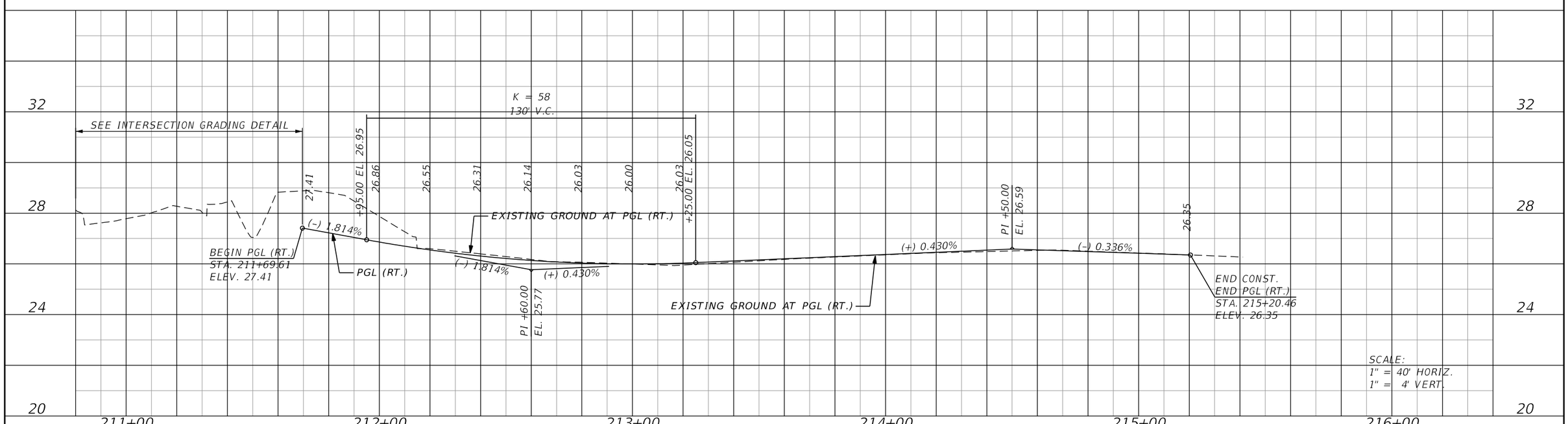

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JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY PROFILE (4)
(COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	18

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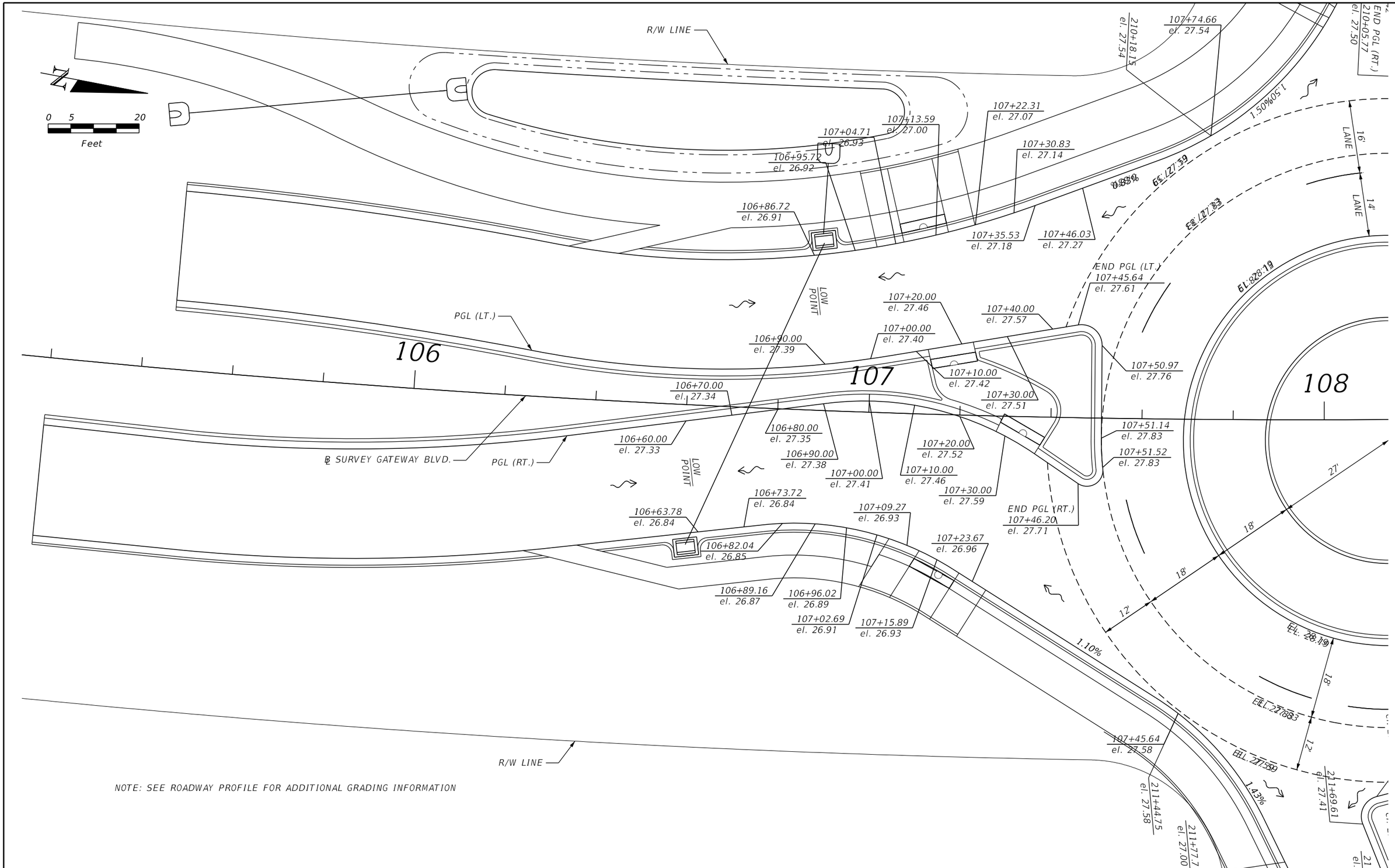

NOTE: SEE ROADWAY PROFILE FOR ADDITIONAL GRADING INFORMATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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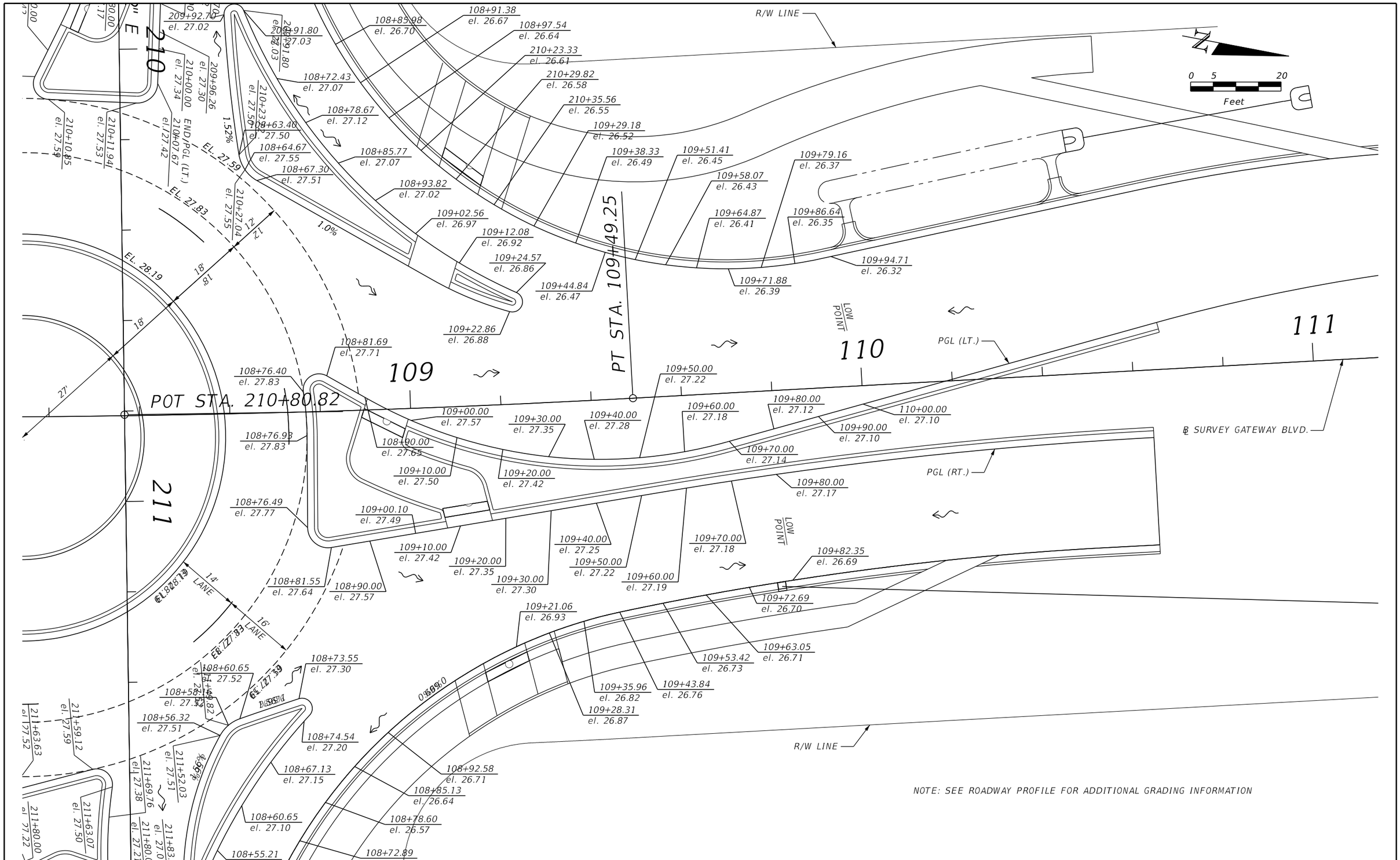
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

INTERSECTION GRADING DETAIL (1)

COUNTY PROJECT NO.	SHT. NO.
0671	19



NOTE: SEE ROADWAY PROFILE FOR ADDITIONAL GRADING INFORMATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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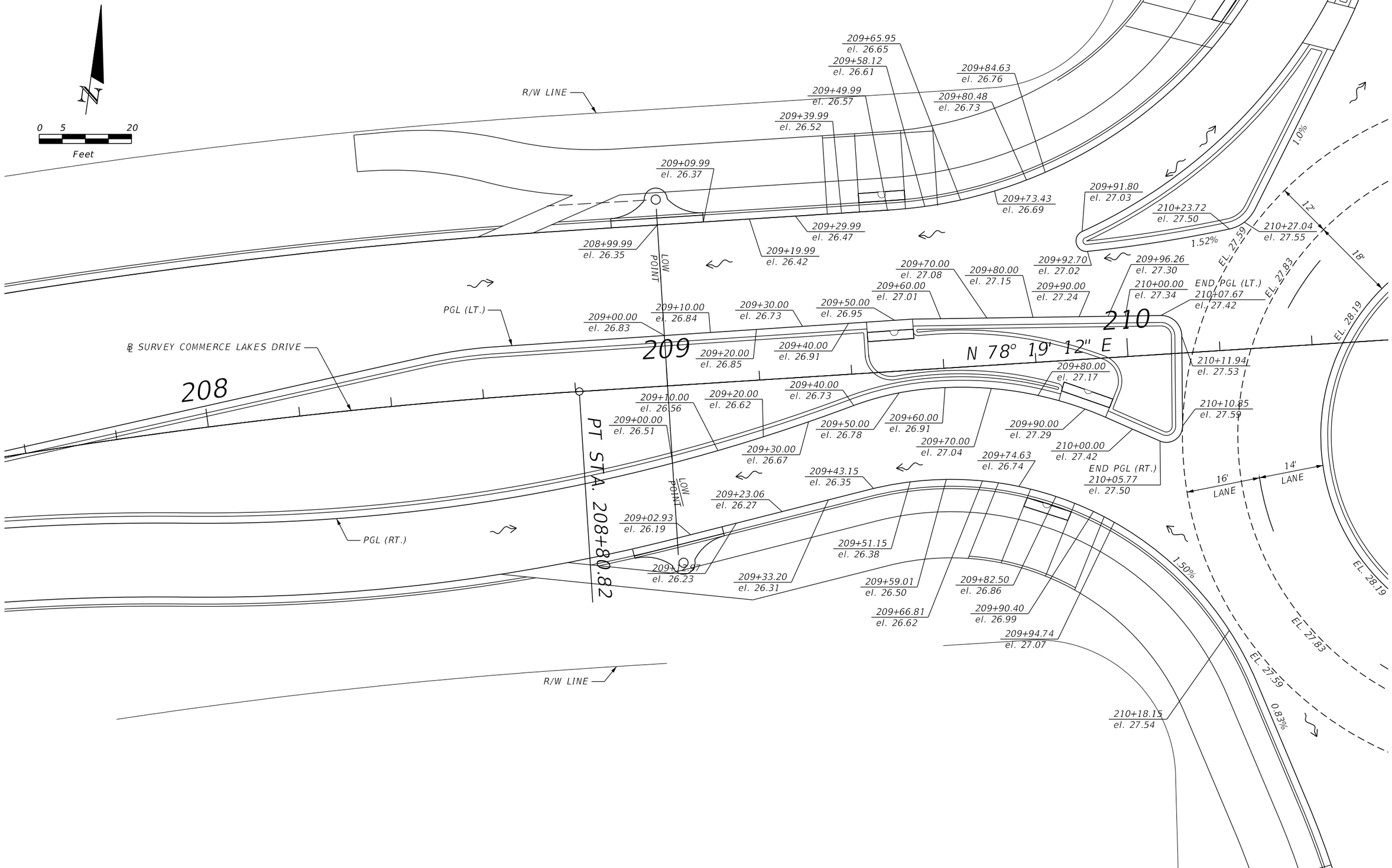
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

INTERSECTION GRADING DETAIL (2)

COUNTY PROJECT NO.	SHT. NO.
0671	20



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
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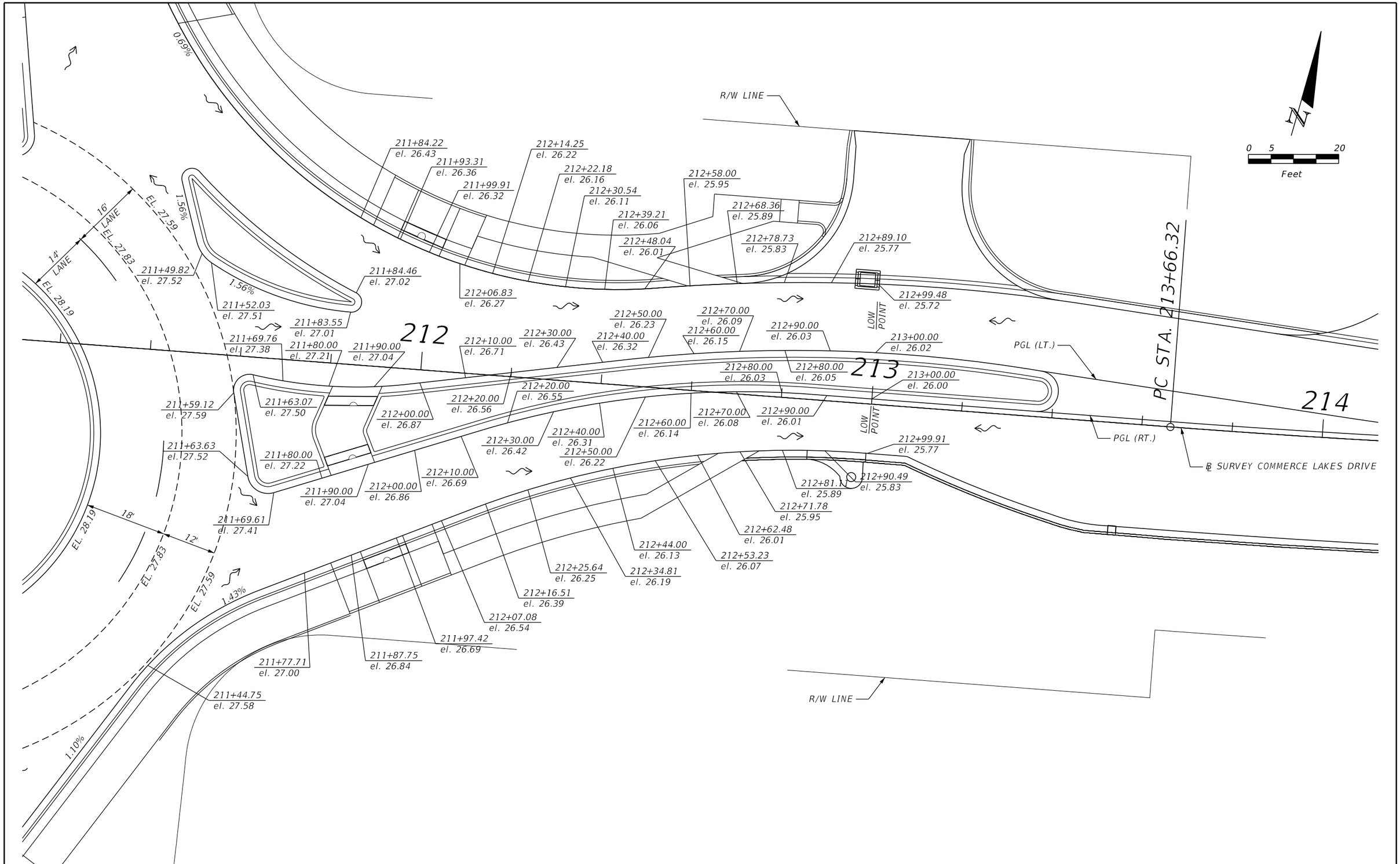
Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

INTERSECTION GRADING DETAIL (3)

COUNTY PROJECT NO.	SHT. NO.
0671	21

kathleen.agoado



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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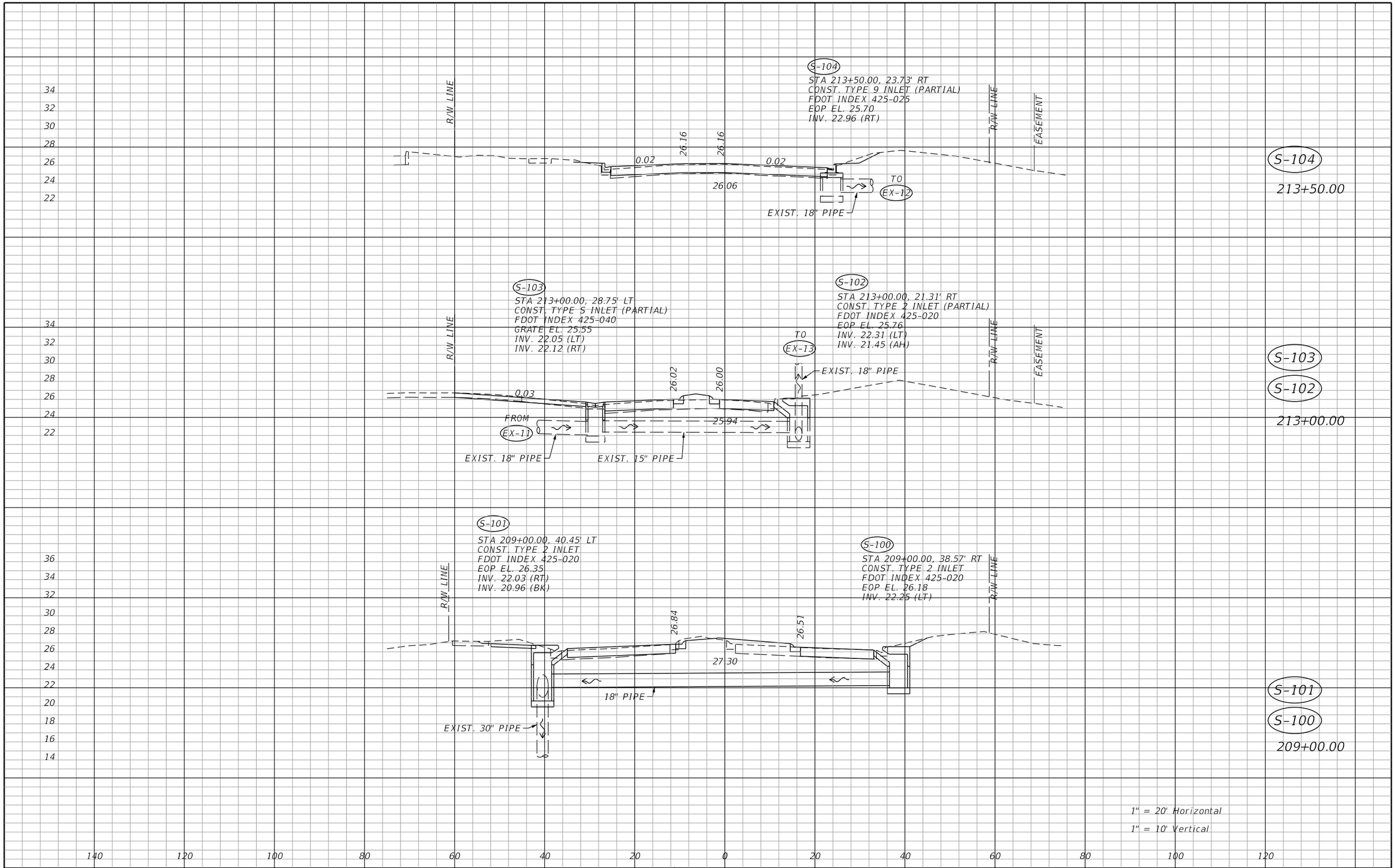
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

INTERSECTION GRADING DETAIL (4)

COUNTY PROJECT NO.	SHT. NO.
0671	22

kathleen.agoado



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

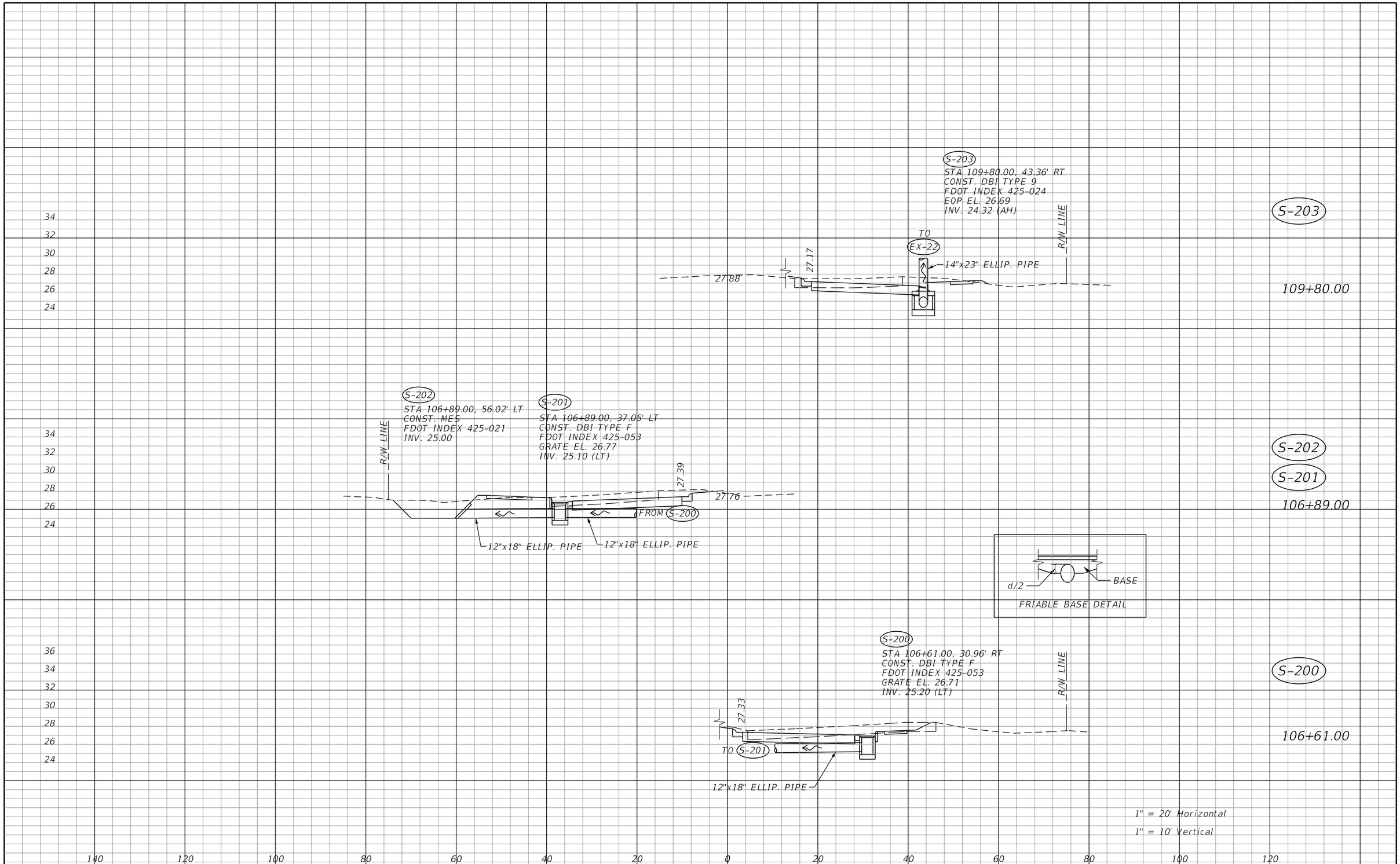
CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

DRAINAGE STRUCTURES

COUNTY NO.	SHT. NO.
0671	23



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

DRAINAGE STRUCTURES

COUNTY NO.	SHT. NO.
0671	24

kathleen.agoado 8/21/2019 1:40:03 PM J:\CR044\CR044002.03\ms\drainage\DRXSRD01.DGN

DATE OF SURVEY: AUGUST 2019
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: KEVIN H. SCOTT, P.E.

LEE COUNTY PUBLIC WORKS

COUNTY PROJECT NO. : 0671
PROJECT NAME: GATEWAY BOULEVARD AND COMMERCE LAKES DRIVE

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	--	1	--	--	--	--	3	--	--	--	A-3	GRAY TO BROWN SAND TO SAND WITH SILT SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--
2	--	--	1	23	1	--	--	--	--	13	1	NP	NP	A-2-4	LIGHT BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--
3	--	--	1	20	1	--	--	--	--	17	1	20	5	A-2-4	LIGHT BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--
4	--	--	1	17	1	--	--	--	--	44	1	17	4	A-4	LIGHT BROWN SILTY-CLAYEY SAND SOMETIMES WITH LIMEROCK FRAGMENTS	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

NP - NON-PLASTIC

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATA 2 AND 3 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM 4 (A-4) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS, IF NECESSARY, WILL BE PRESENTED ON THE NEXT SUBMITTAL.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KEVIN H. SCOTT, P.E.
P.E. LICENSE NUMBER 65514
TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
CERTIFICATE OF AUTHORIZATION NO. 6486

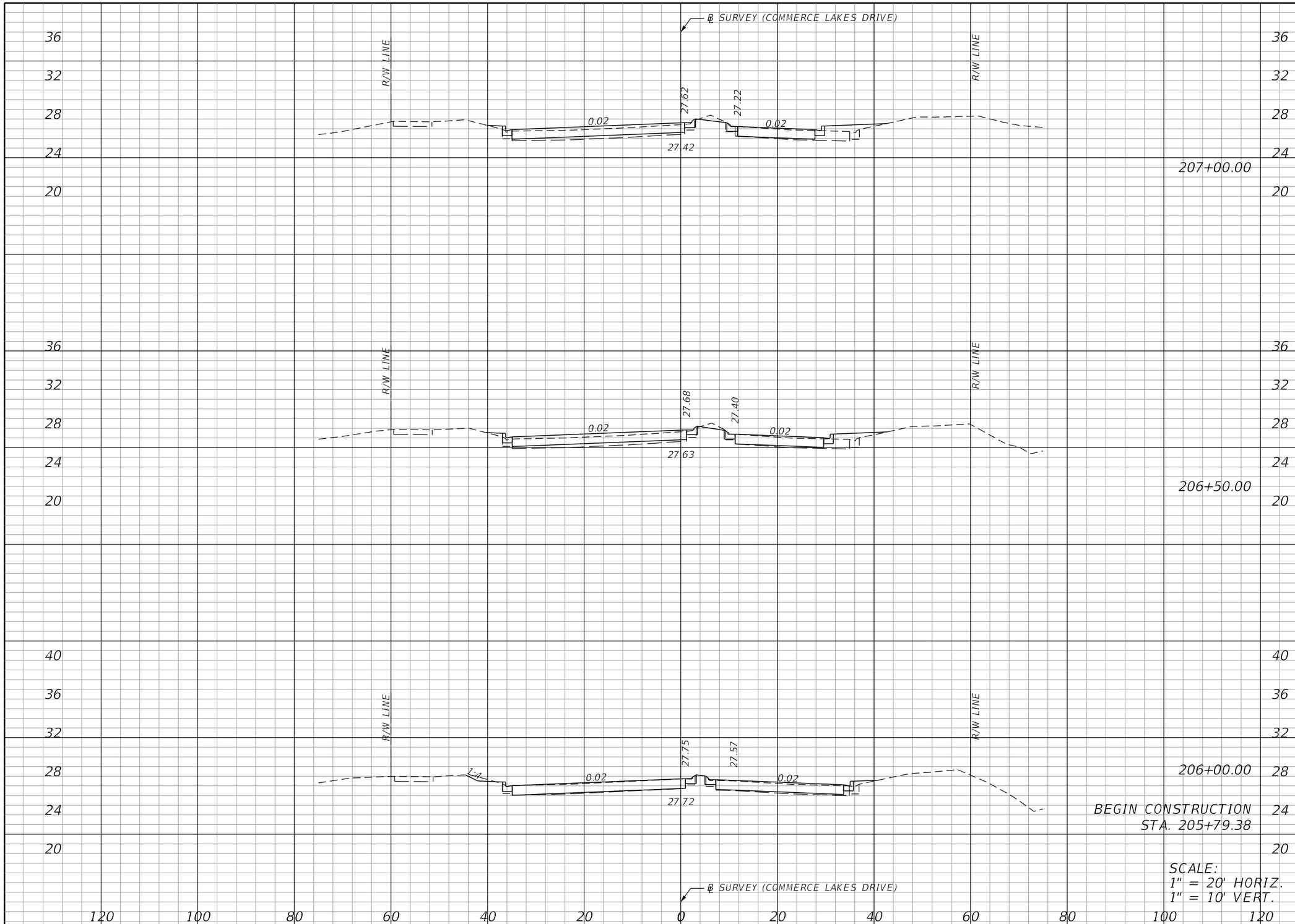
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

ROADWAY SOIL SURVEY

COUNTY PROJECT NO. 0671

SHT. NO. 25



Regular Exc.		Embankment	
A	V	A	V

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

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	26

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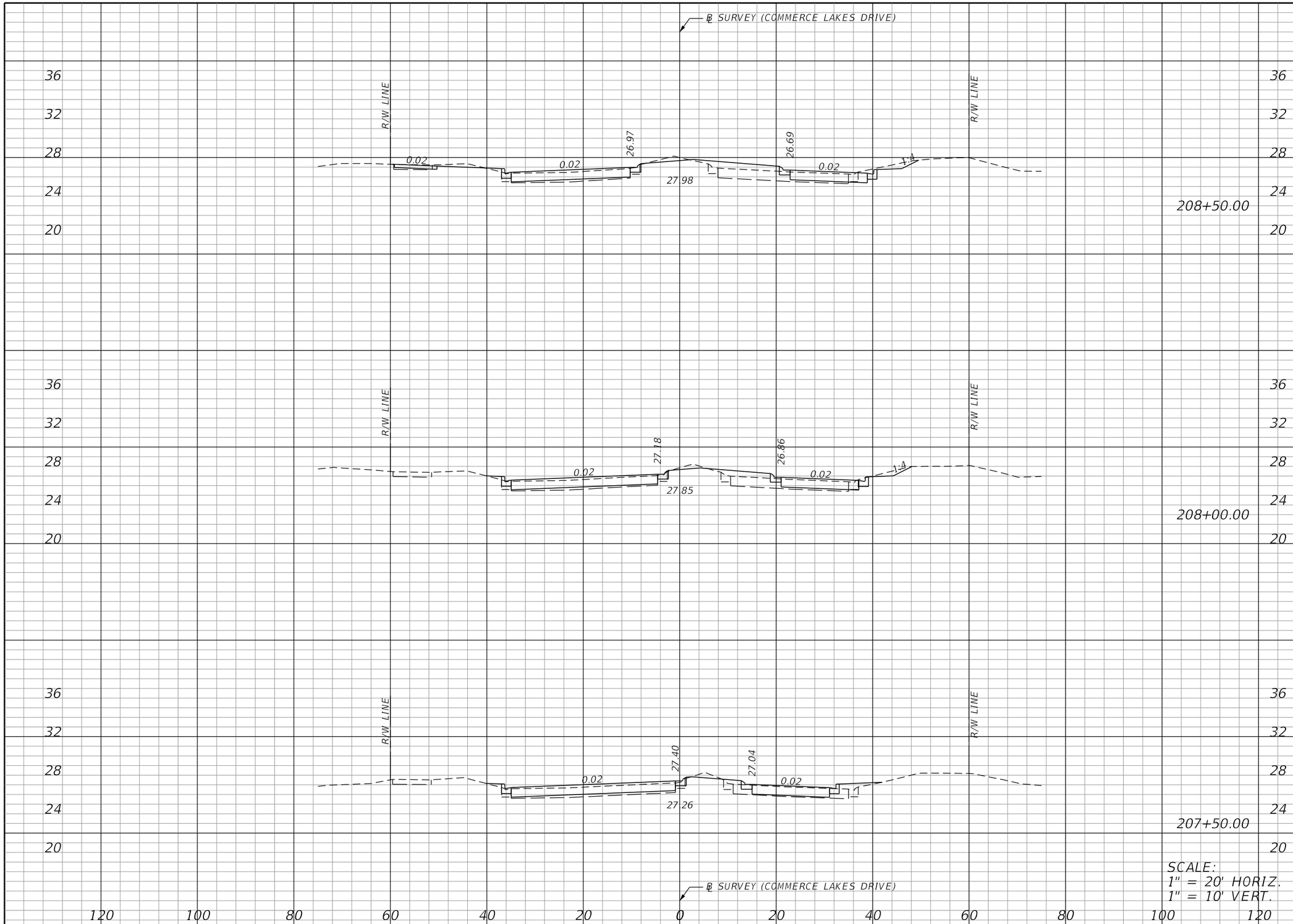

Regular Exc.		Embankment	
A	V	A	V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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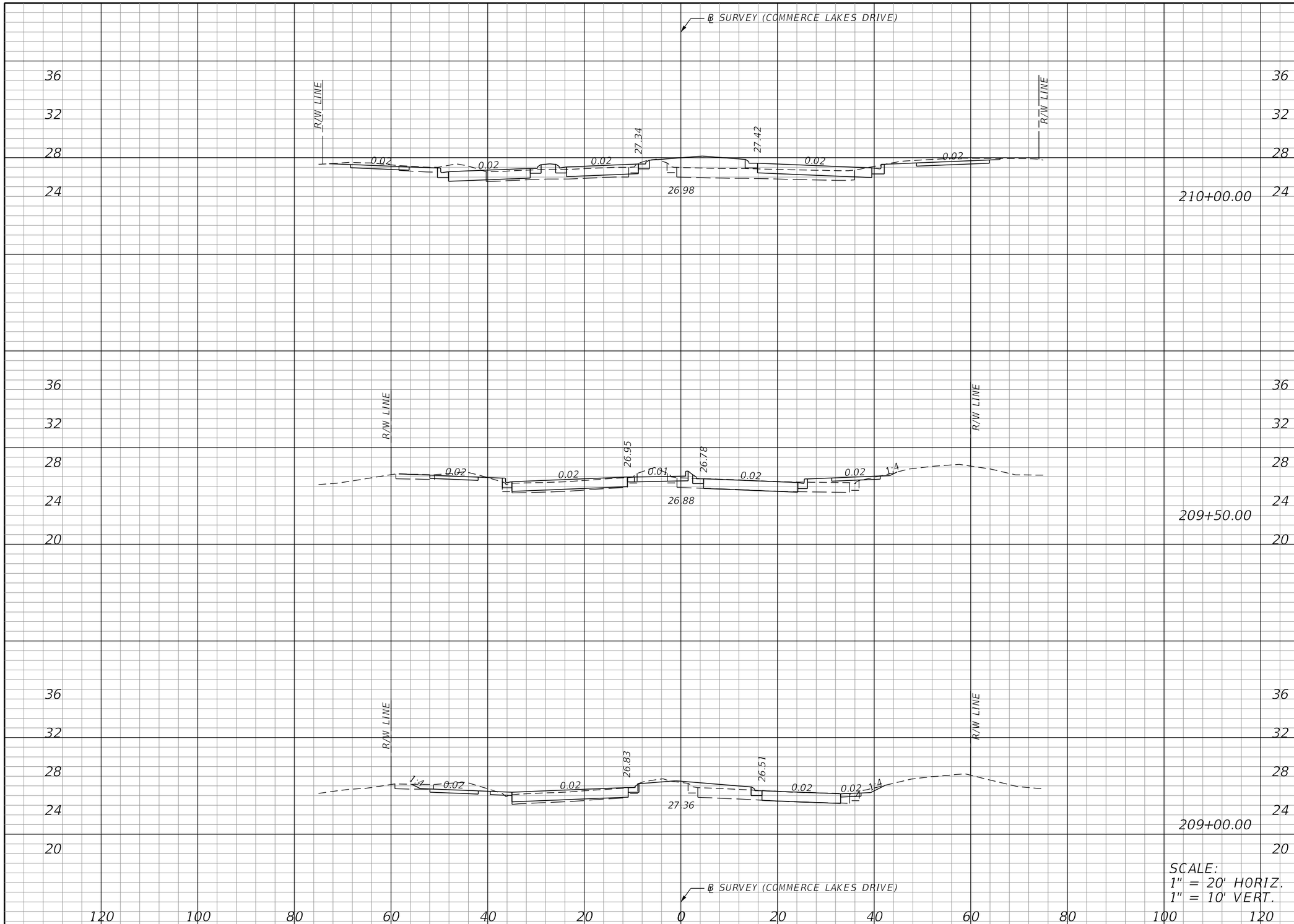
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	27

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

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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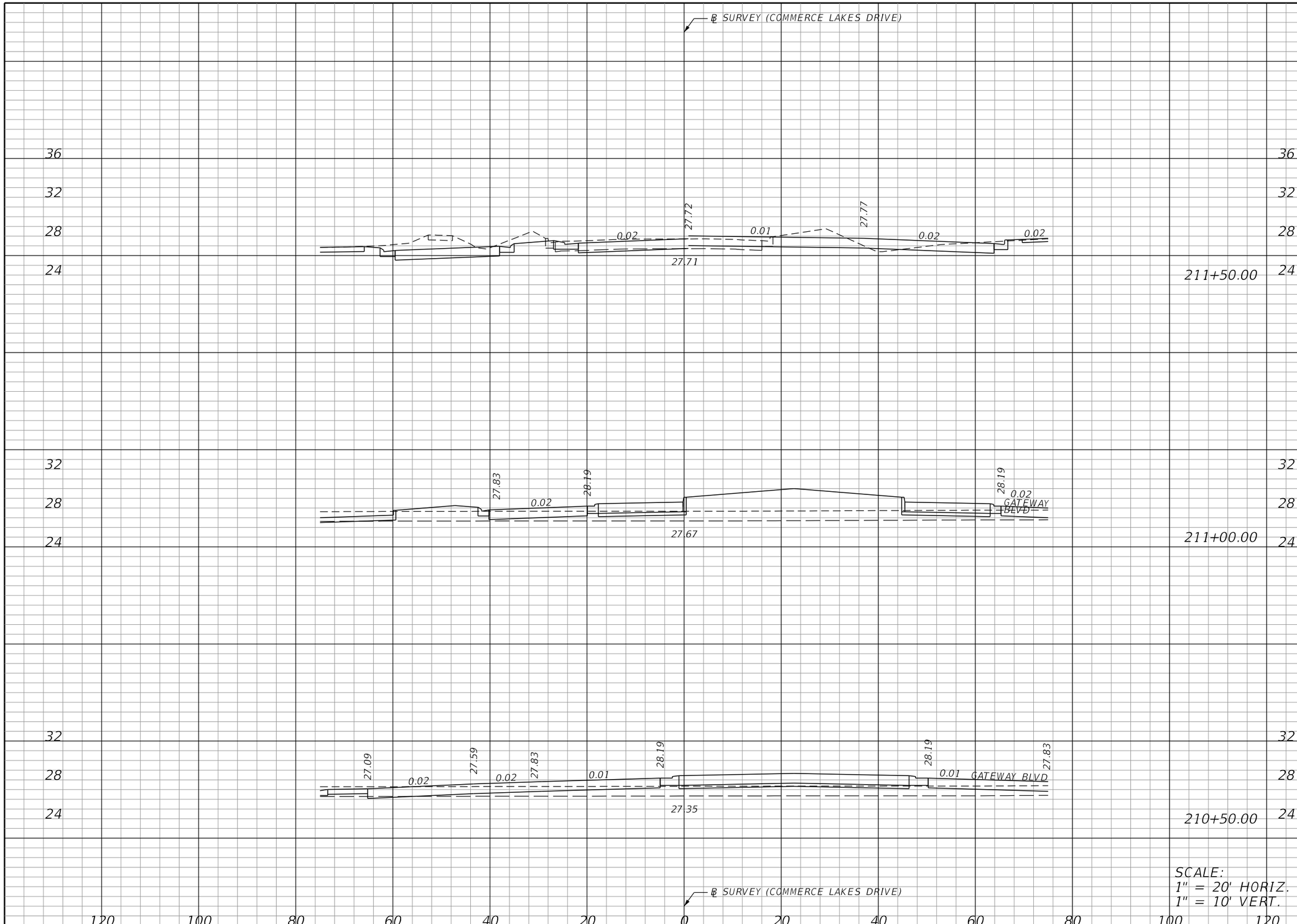
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	28



Regular Exc.		Embankment	
A	V	A	V

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.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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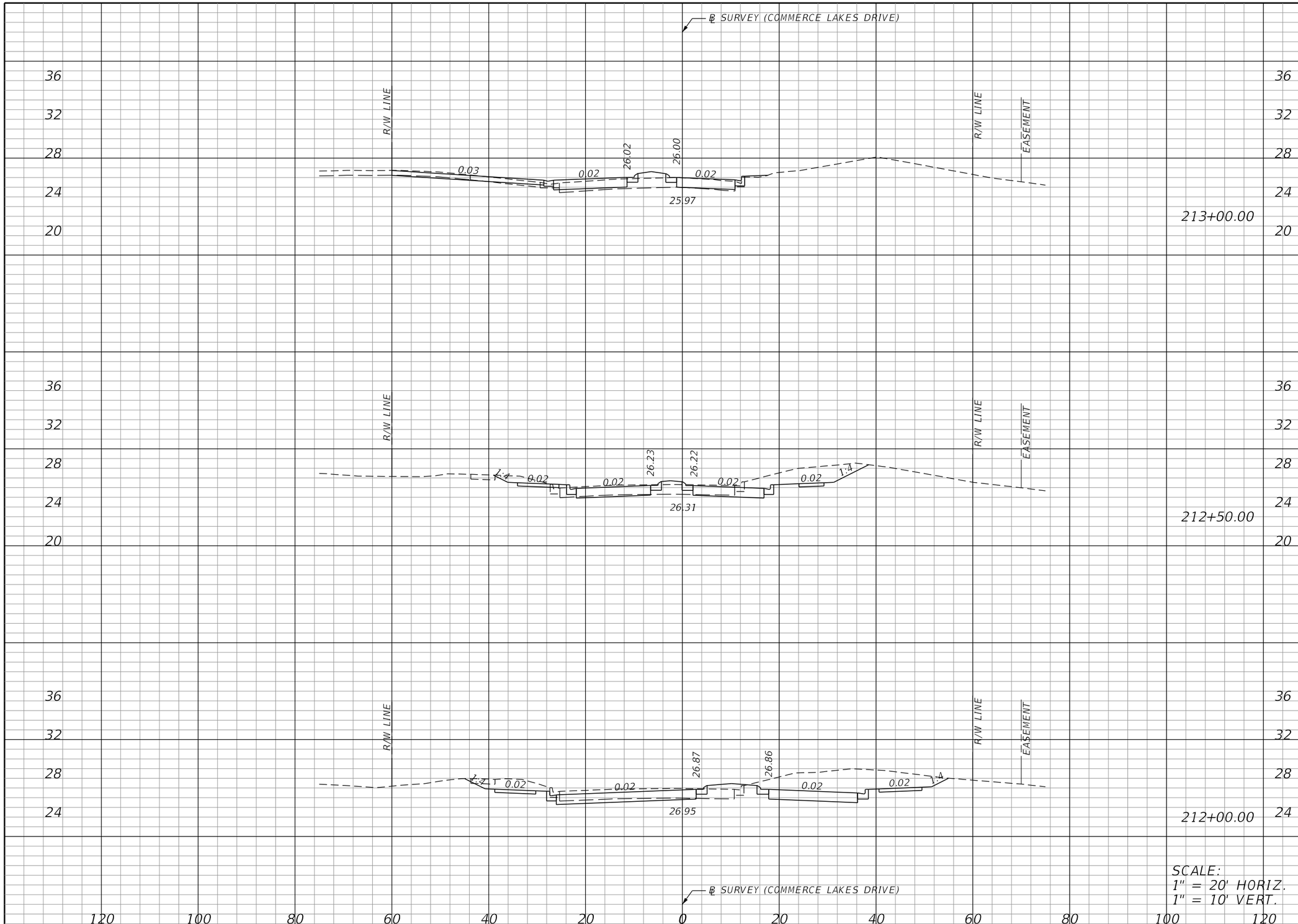
Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS
(COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	29

kathleen.agoado 8/21/2019 1:40:04 PM J:\CR044\CR044002.03\ms\roadway\RDXSRD01.dgn



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

Regular Exc.		Embankment	
A	V	A	V

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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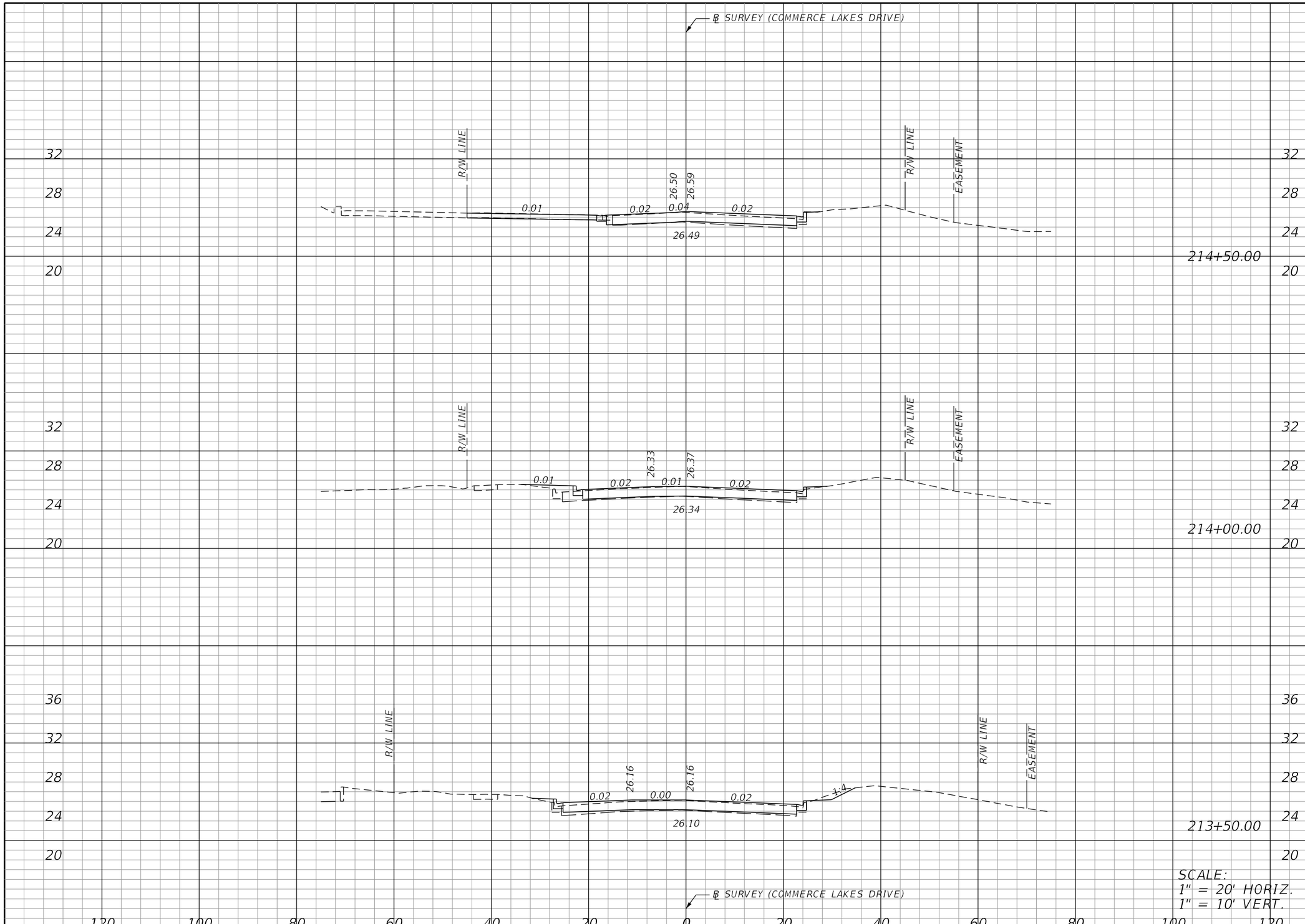
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	30



Regular Exc.		Embankment	
A	V	A	V

SCALE:
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1" = 10' VERT.

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REVISIONS			
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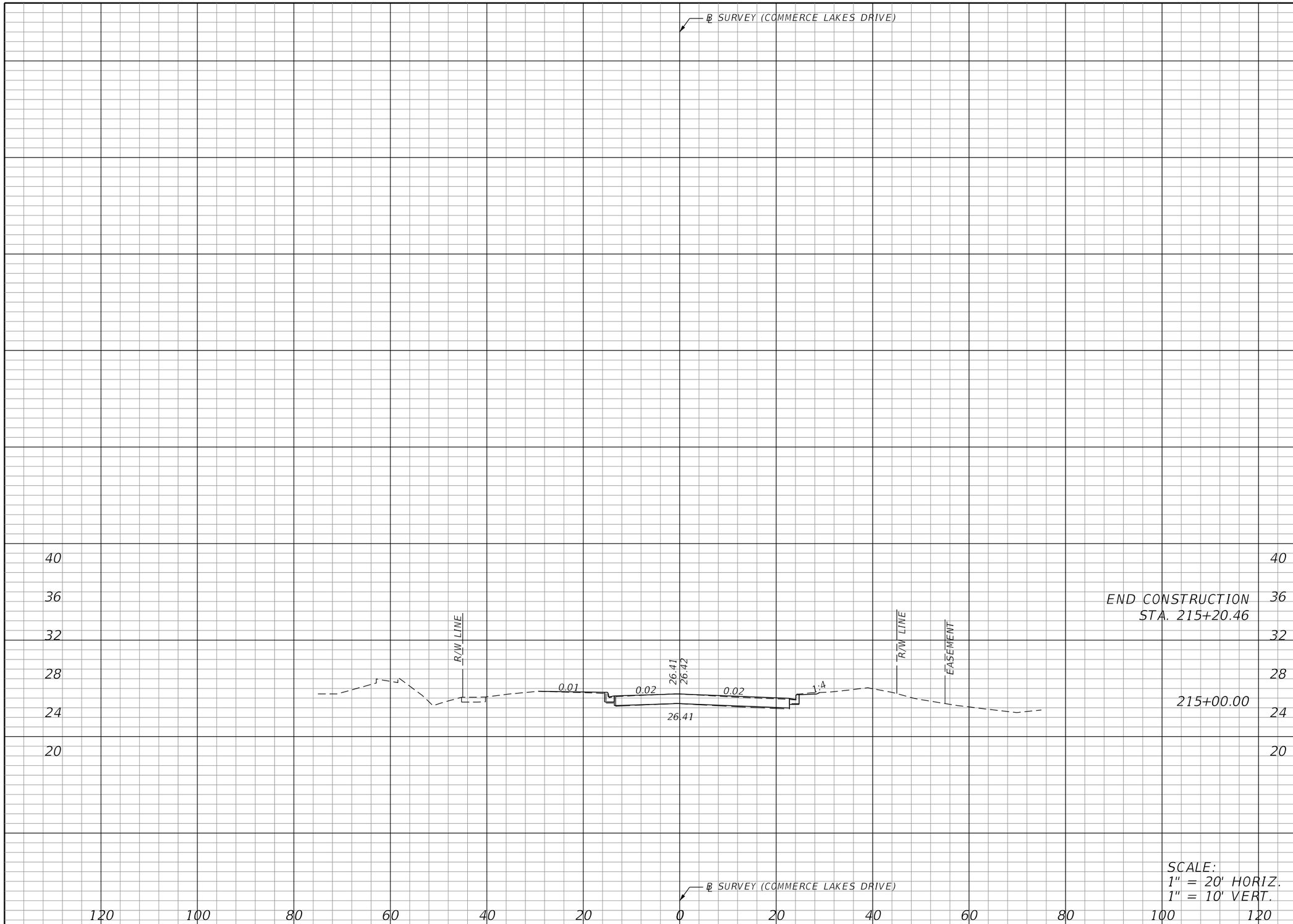
Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS
(COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	31



Regular Exc.		Embankment	
A	V	A	V

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	32

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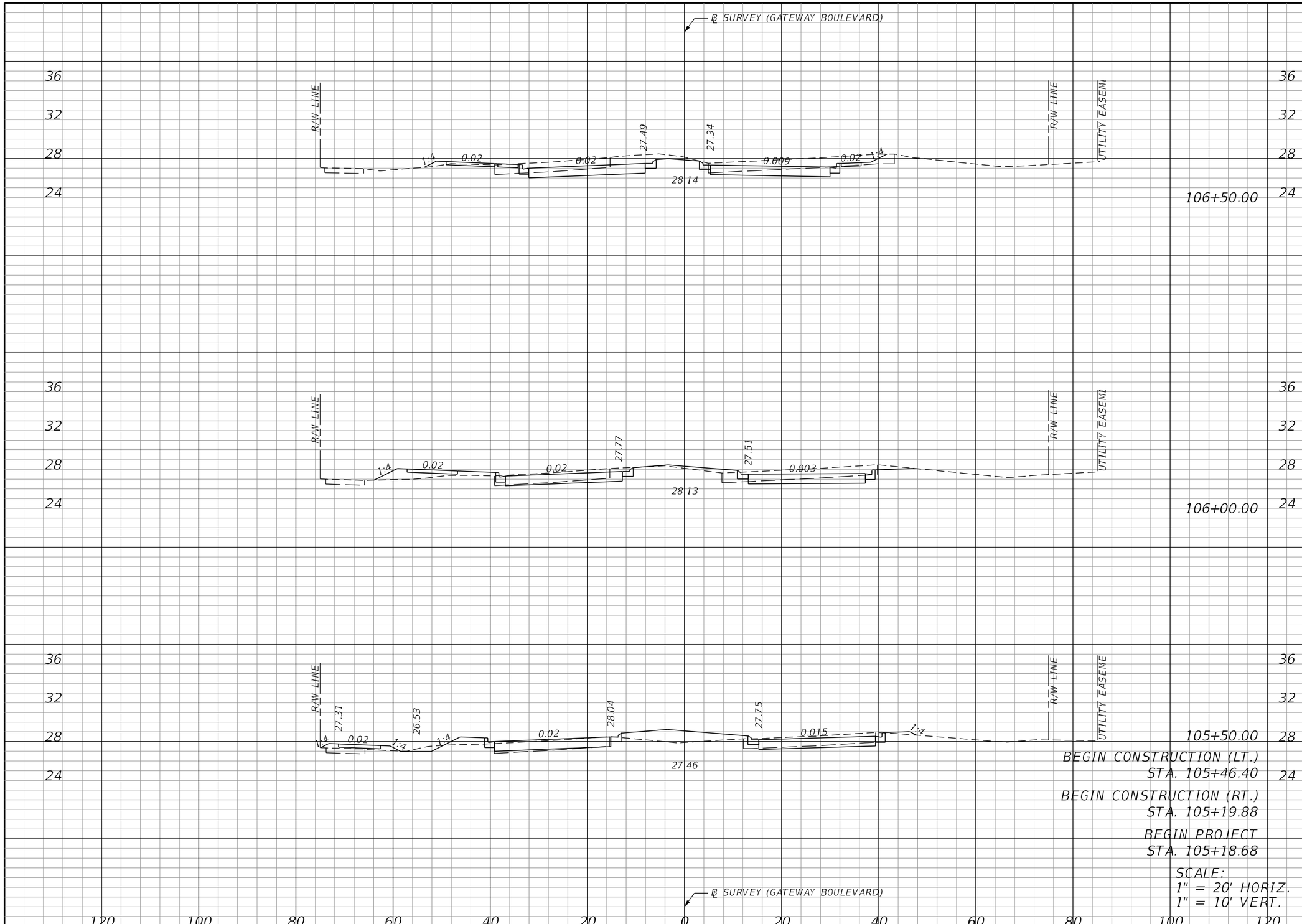

Regular Exc.		Embankment	
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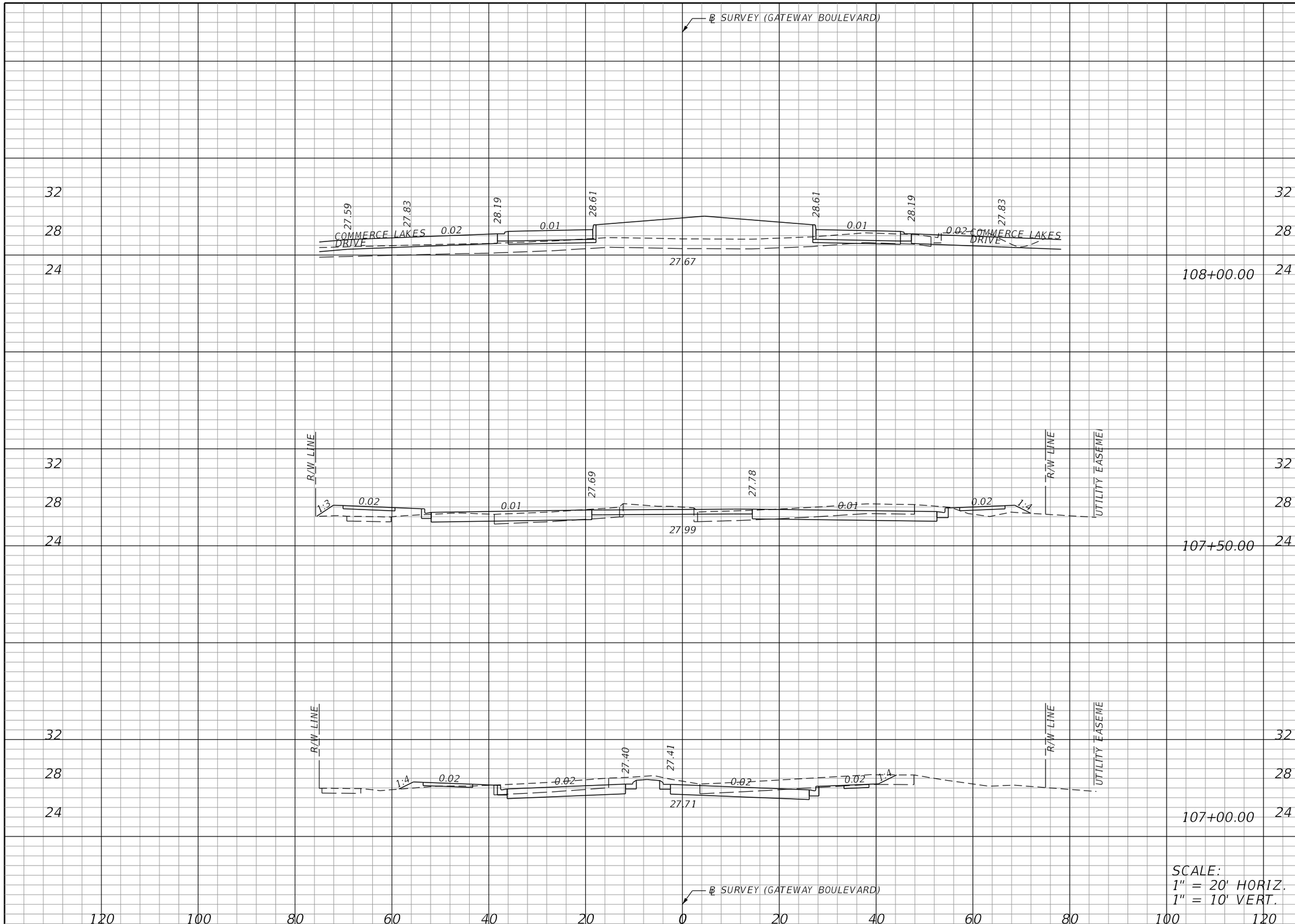
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	33



Regular Exc.		Embankment	
A	V	A	V

REVISIONS			
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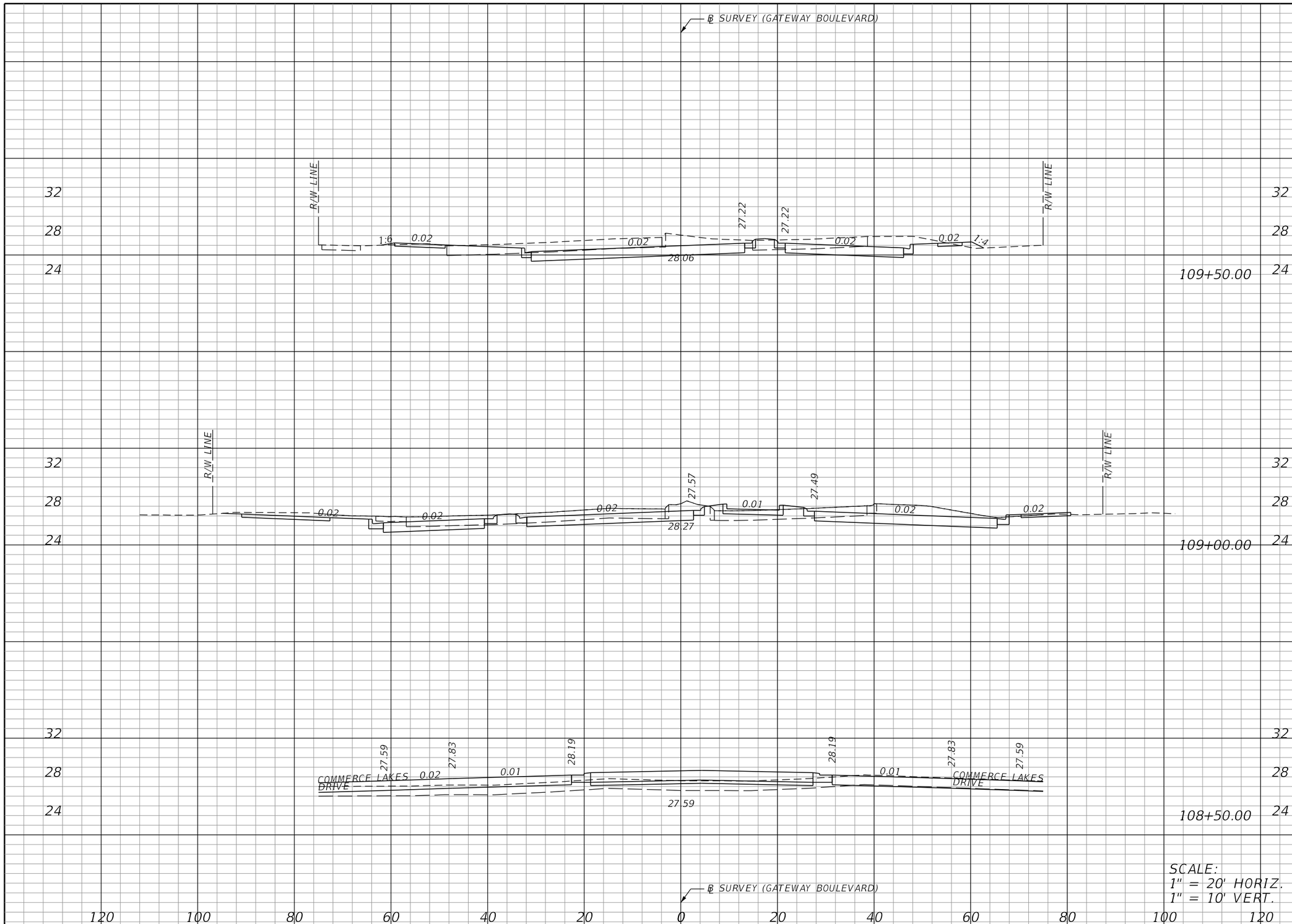
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	34

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	35

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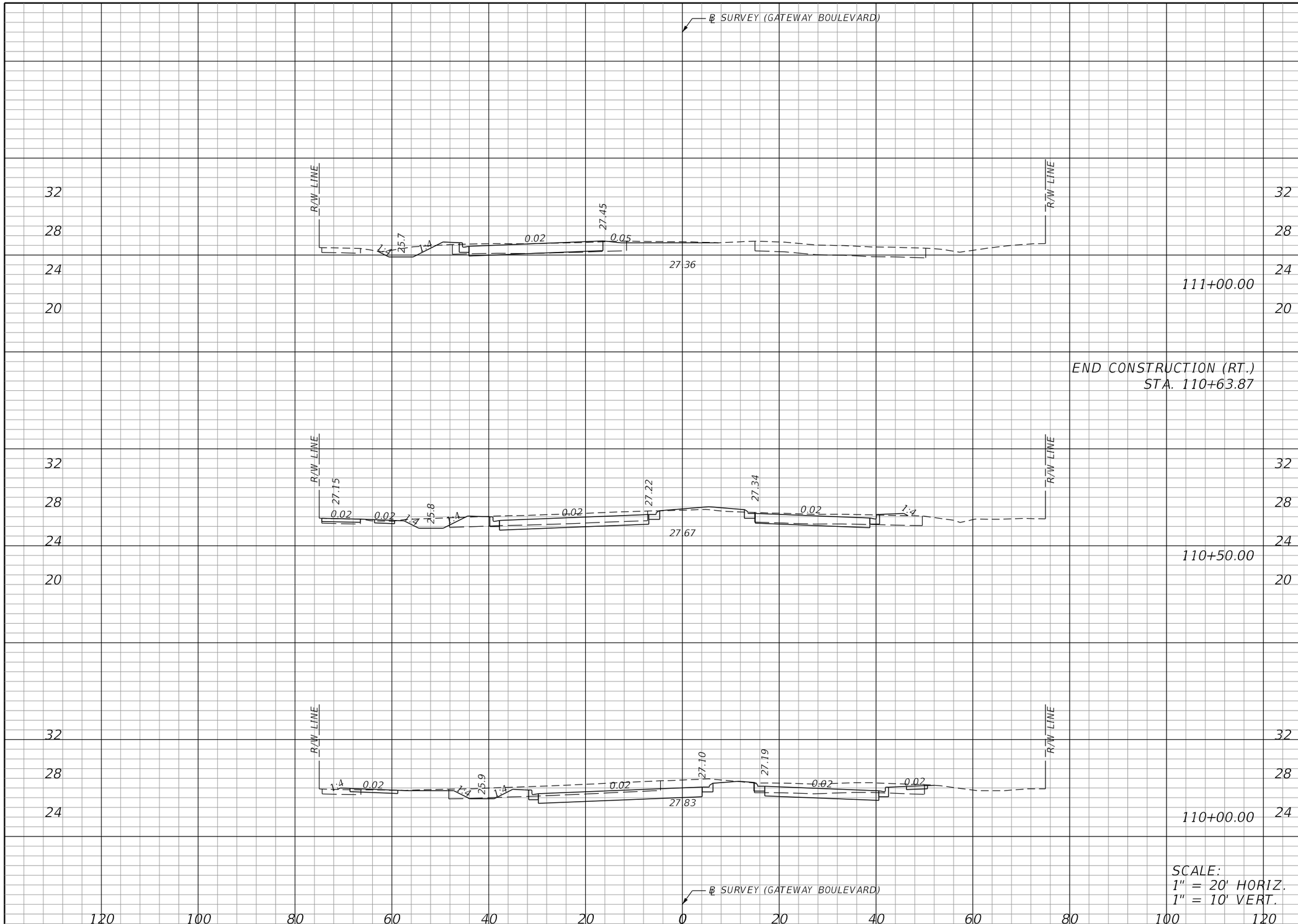

Regular Exc.		Embankment	
A	V	A	V

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

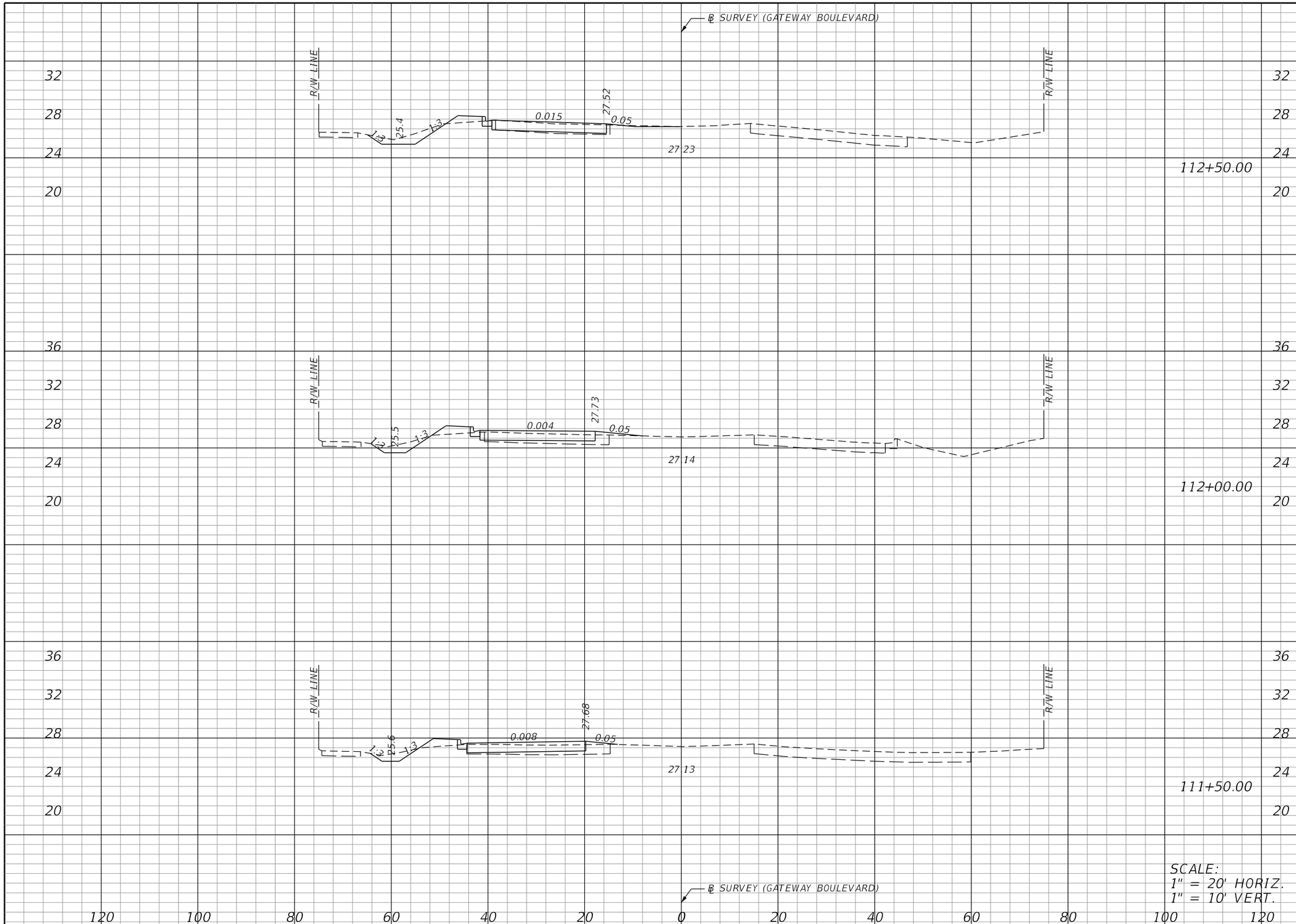
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS
(GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	36



Regular Exc.		Embankment	
A	V	A	V

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

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	37

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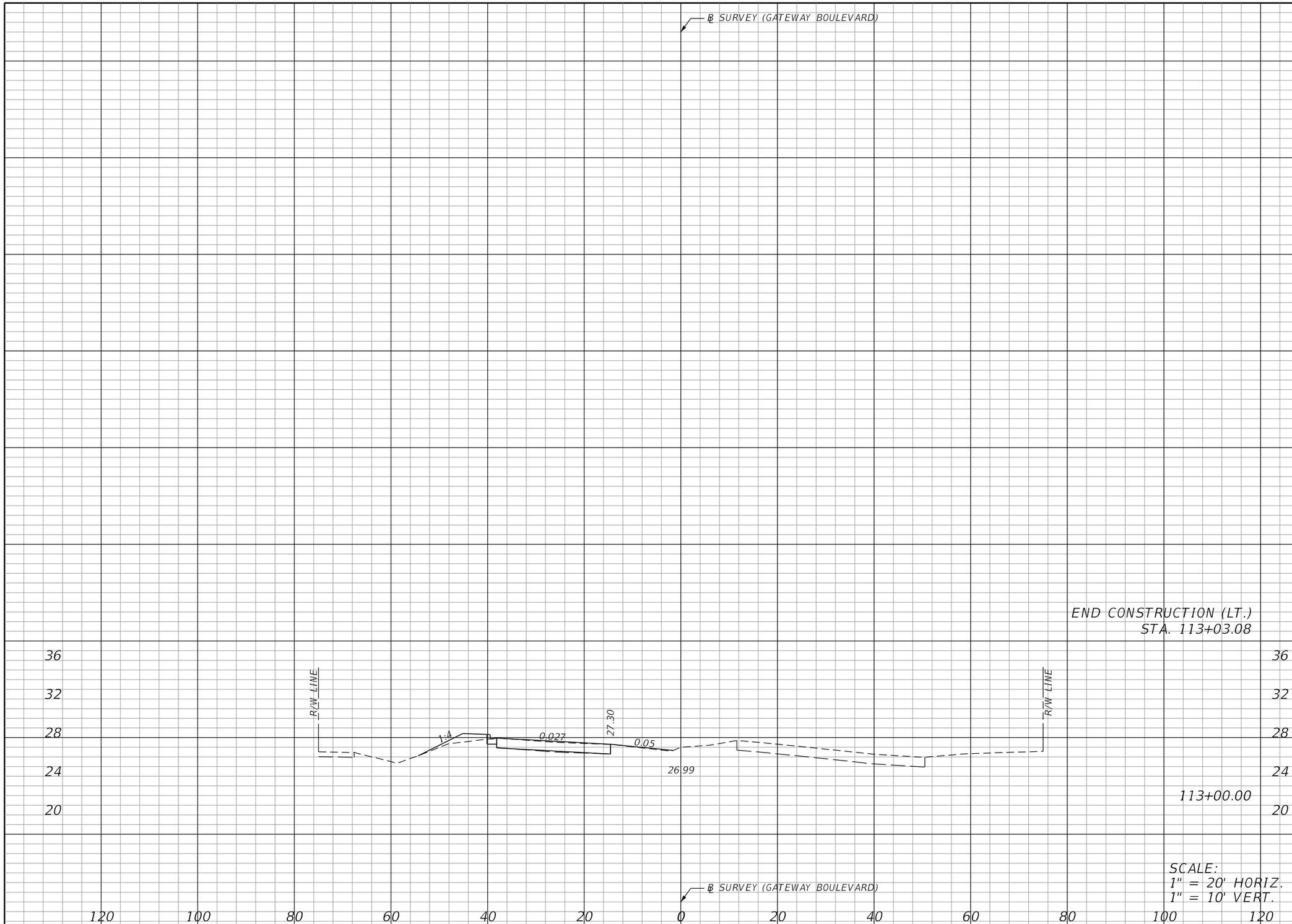

Regular Exc.		Embankment	
A	V	A	V

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

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

CROSS SECTIONS (GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	38

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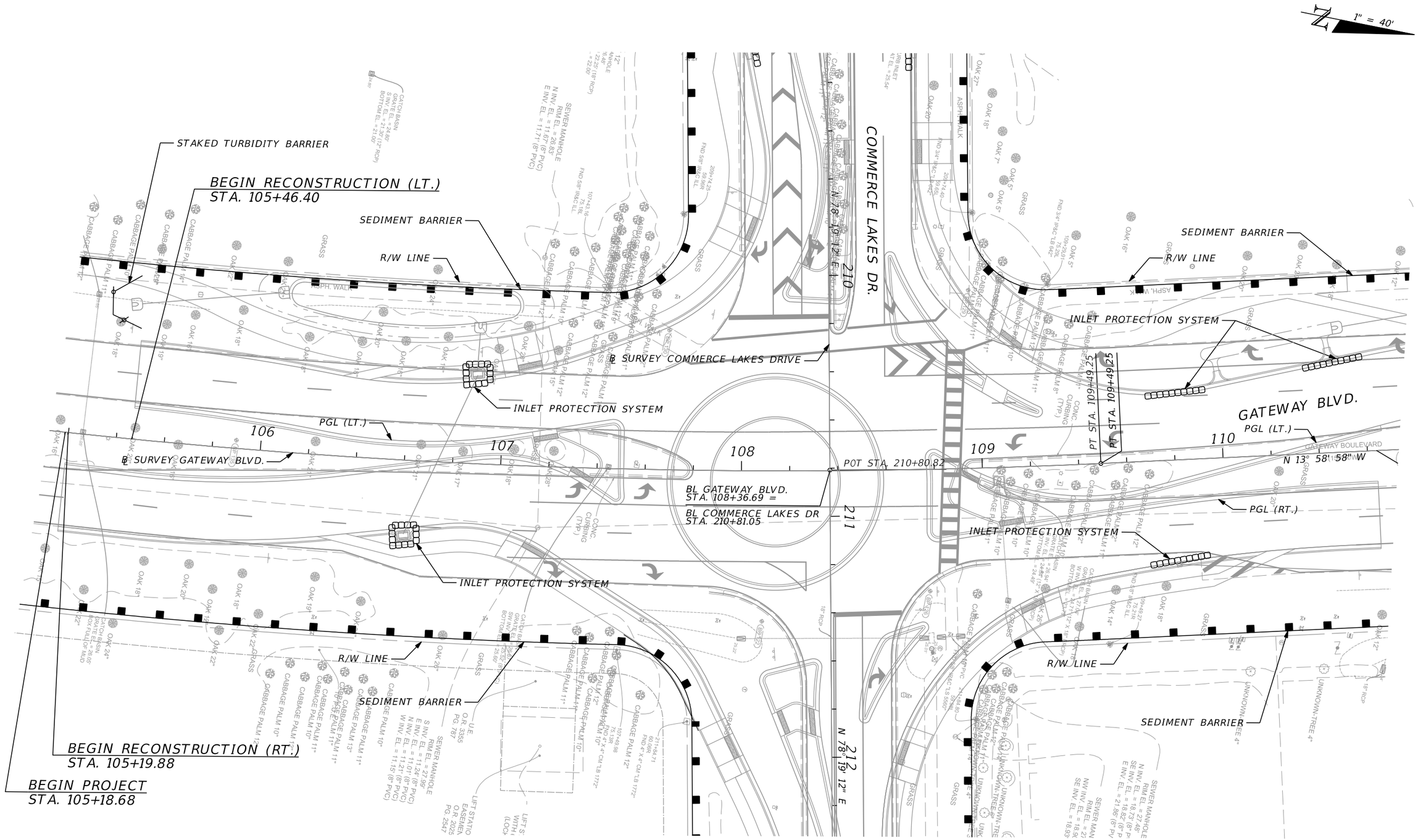

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CHRISTOPHER J. KNOX, P.E.
P.E. LICENSE NUMBER 67350
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

EROSION CONTROL (1)
(GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	39

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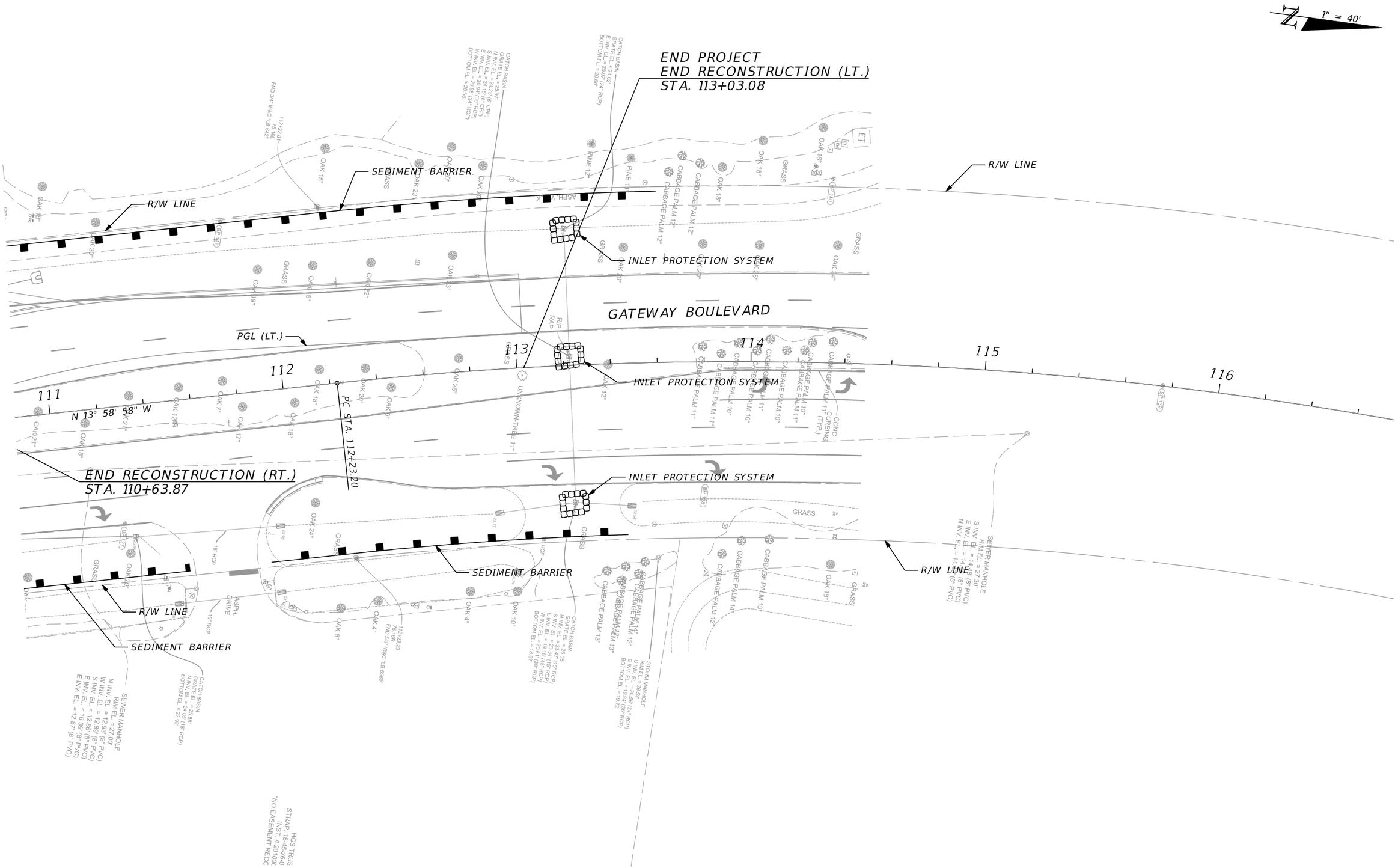

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Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

EROSION CONTROL (2)
(GATEWAY BOULEVARD)

COUNTY NO.	SHT. NO.
0671	40

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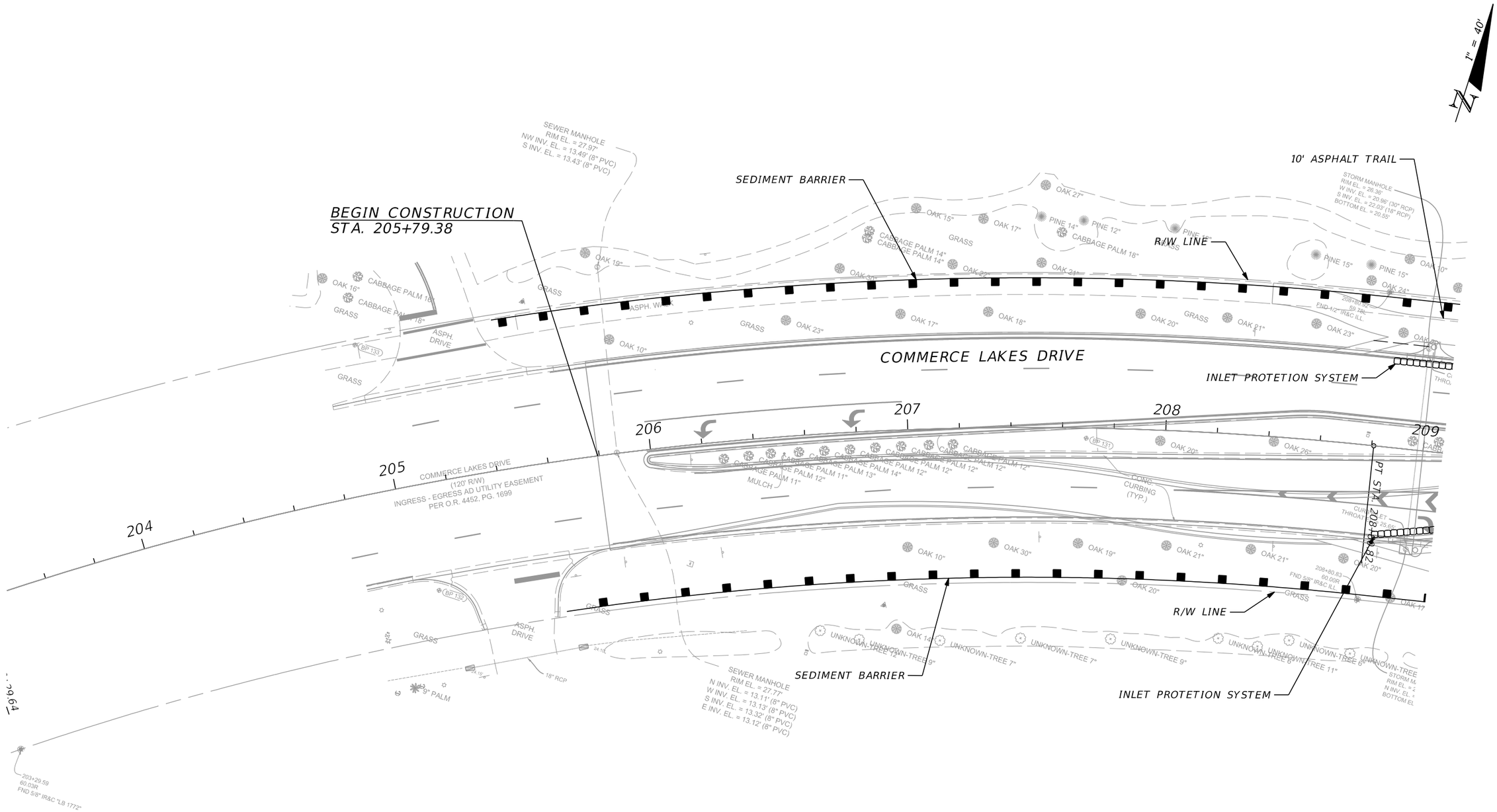

REVISIONS			
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CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

EROSION CONTROL (3)
(COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	41

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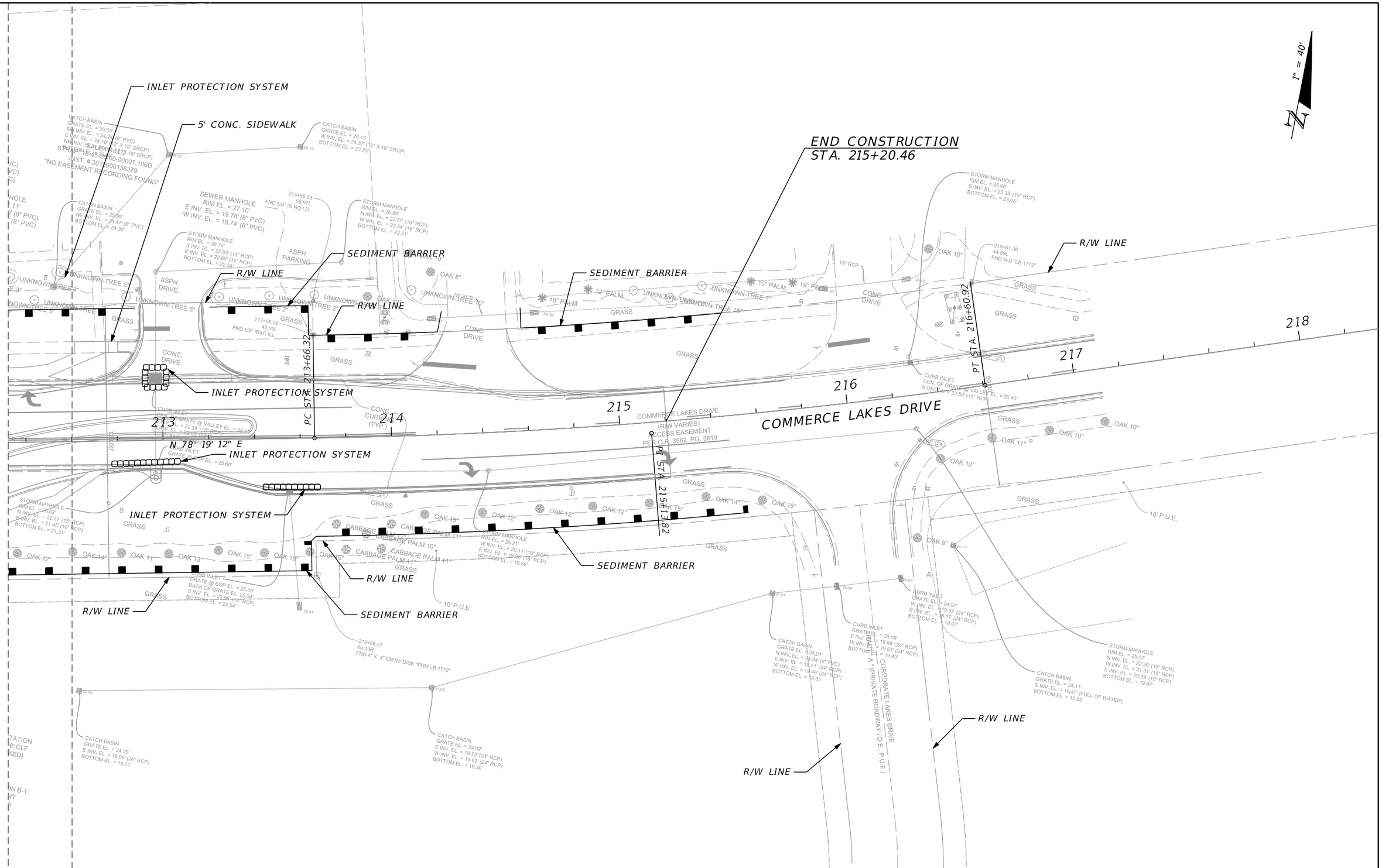

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380 PARK PLACE BOULEVARD, SUITE 300
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Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

EROSION CONTROL (4)
(COMMERCE LAKES DRIVE)

COUNTY NO.	SHT. NO.
0671	42

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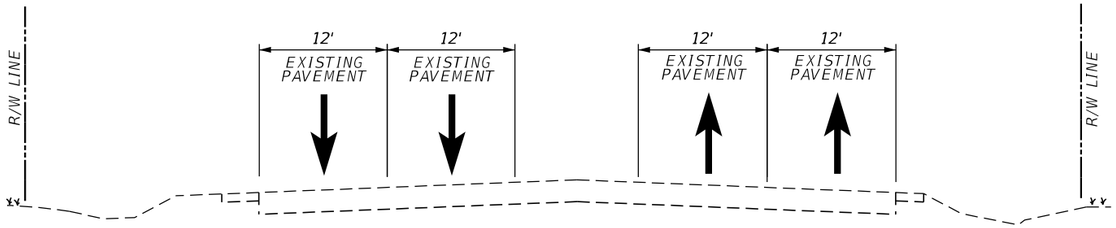
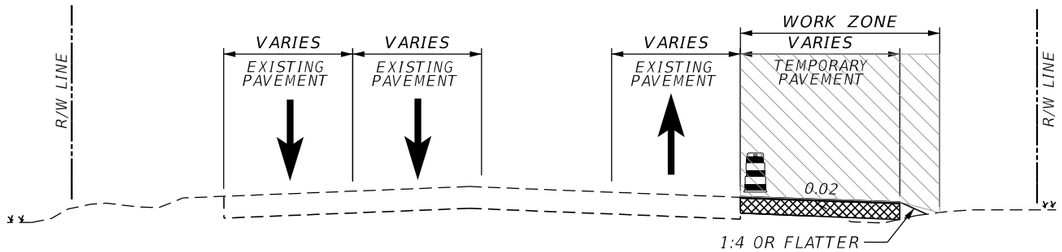
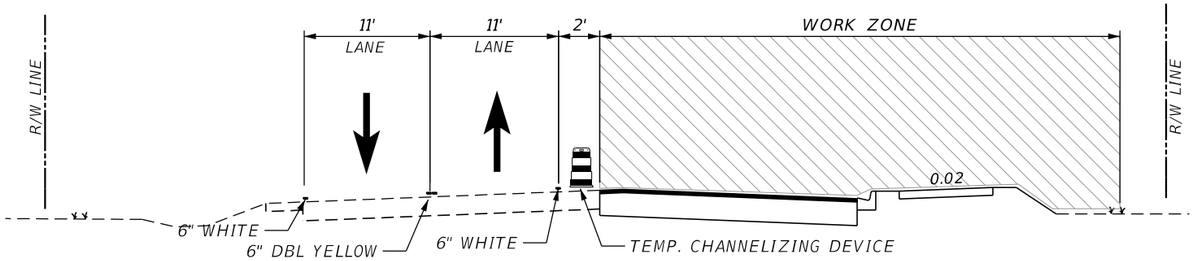


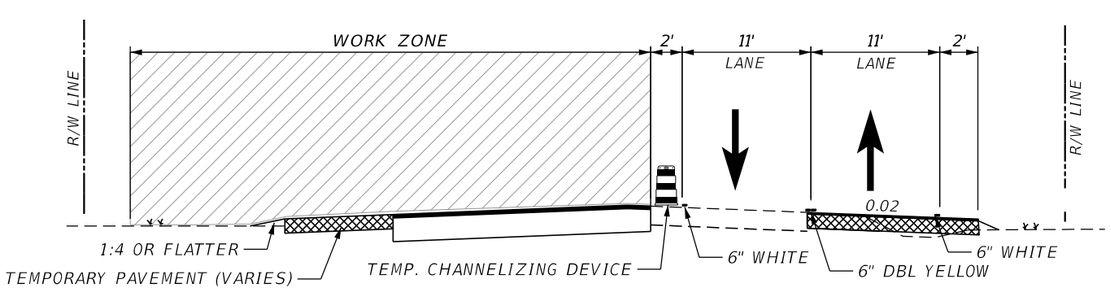
PHASE I GATEWAY BLVD



PHASE I COMMERCE LAKES DRIVE



PHASE II GATEWAY BLVD



PHASE II COMMERCE LAKES DRIVE

CONSTRUCTION PHASING NOTES

PHASE I - OPERATIONS ARE TO INSTALL TEMPORARY PAVEMENT FOR PHASE II.

1. INSTALL SIGNING ON BOTH MAINLINE AND INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE I CONSTRUCTION.
3. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE II.

PHASE II - OPERATIONS ARE TO CONSTRUCT GATEWAY BLVD EAST SIDE (NB) AND COMMERCE LAKES DRIVE NORTH SIDE (WB) NEW ALIGNMENT ALONG WITH TEMPORARY PAVEMENT.

1. INSTALL SIGNING ON BOTH MAINLINE AND INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE II CONSTRUCTION.
3. CONSTRUCT GATEWAY BLVD EAST SIDE (NB) 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.

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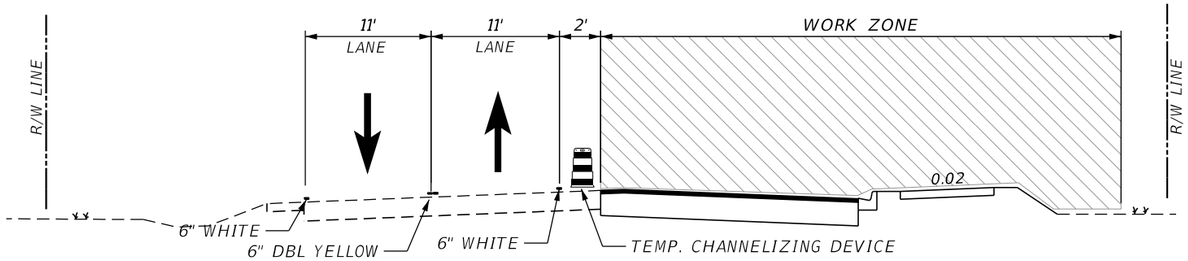
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

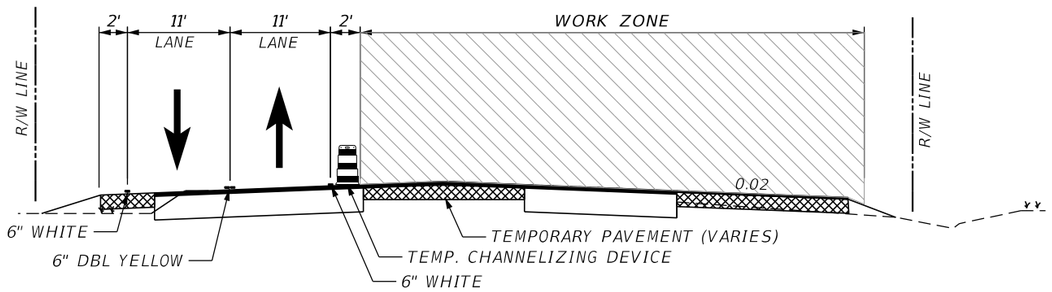
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

TEMPORARY TRAFFIC CONTROL

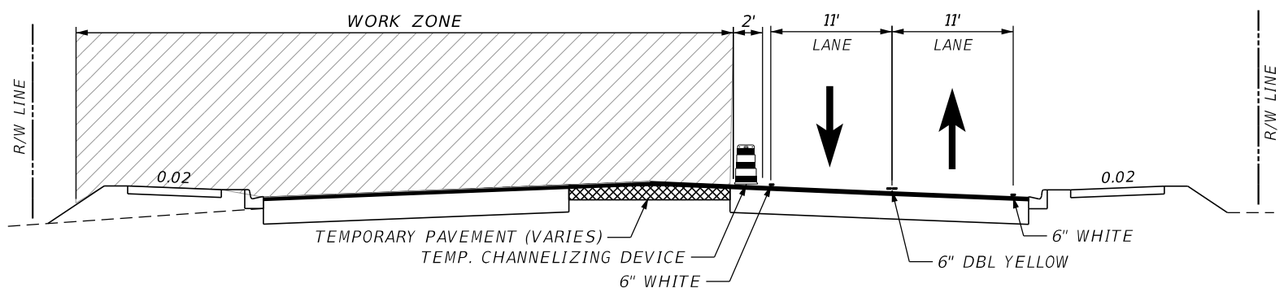
COUNTY PROJECT NO.	SHT. NO.
0671	43



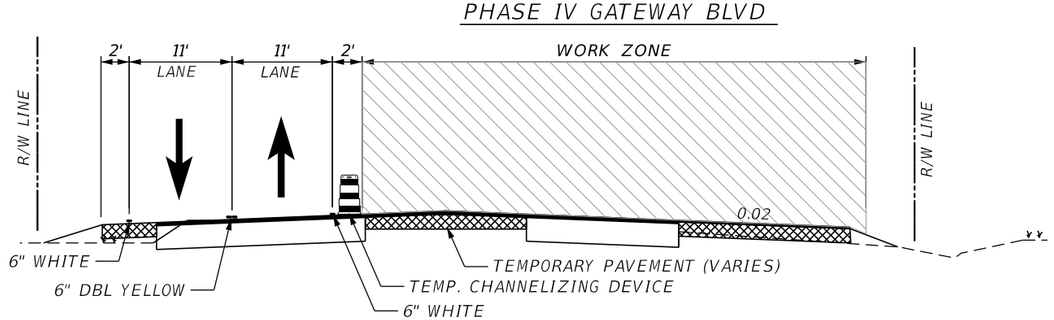
PHASE III GATEWAY BLVD



PHASE III COMMERCE LAKES DRIVE



PHASE IV GATEWAY BLVD



PHASE IV COMMERCE LAKES DRIVE

CONSTRUCTION PHASING NOTES

PHASE III - OPERATIONS ARE TO CONSTRUCT COMMERCE LAKES DRIVE SOUTH SIDE (EB) NEW ALIGNMENT ALONG WITH TEMPORARY PAVEMENT.

1. INSTALL SIGNING ON BOTH MAINLINE AND INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE III CONSTRUCTION.
3. CONSTRUCT COMMERCE LAKES DRIVE SOUTH SIDE (EB) 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 IV.

PHASE IV - OPERATIONS ARE TO CONSTRUCT GATEWAY BLVD WEST SIDE (SB) NEW ALIGNMENT INCLUDING ADJACENT DRIVEWAYS AND DRAINAGE.

1. INSTALL SIGNING ON BOTH MAINLINE AN INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVISES FOR PHASE IV CONSTRUCTION.
3. CONSTRUCT GATEWAY BLVD WEST SIDE (SB). THIS WILL INCLUDE LANES, SHOULDERS, CURB AND GUTTERS, SIDEWALKS, EXCLUDING TRAFFIC SEPARATORS AND INCLUDING IRRIGATION.
4. CONSTRUCT PROPOSED DRAINAGE AS INDICATED ON THIS PLAN SET.
5. CONSTRUCT TEMPORARY PAVEMENT FOR PHASE V.

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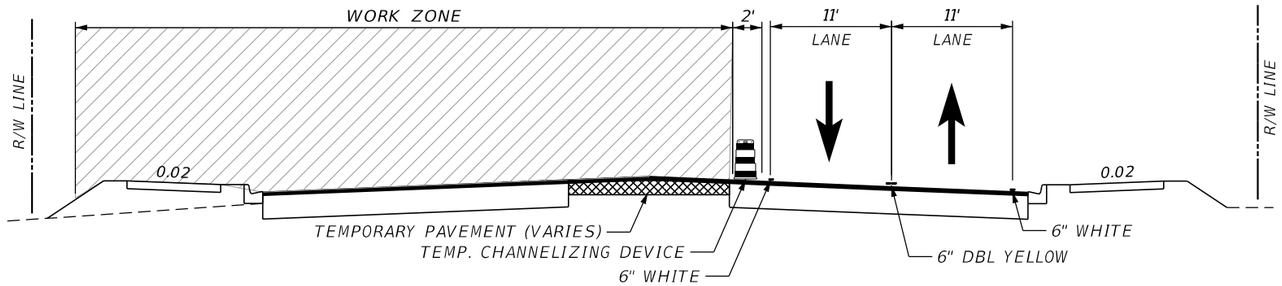
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

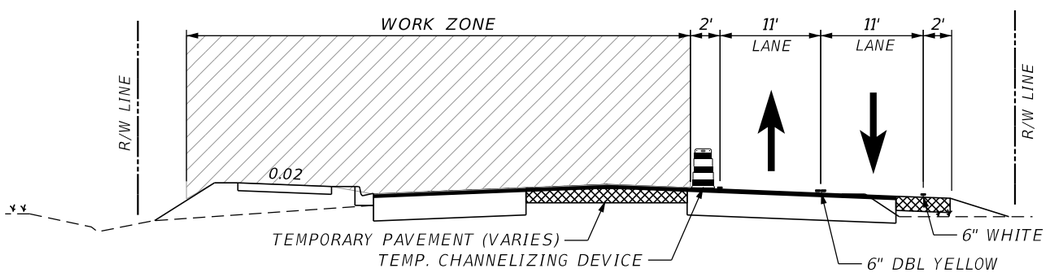
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

TEMPORARY TRAFFIC CONTROL

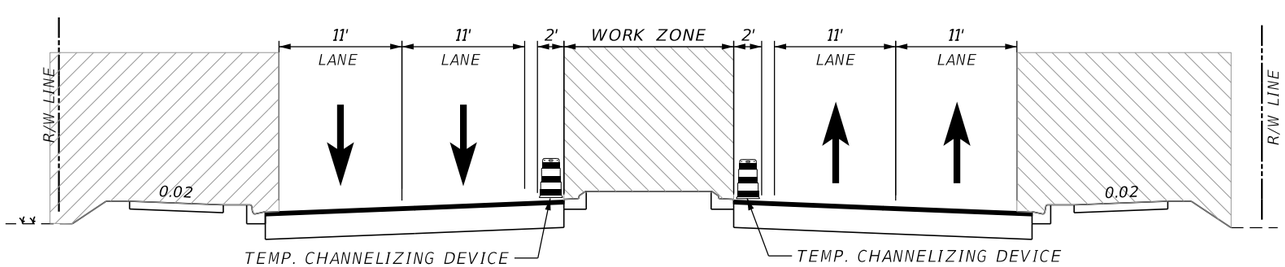
COUNTY PROJECT NO.	SHT. NO.
0671	44



PHASE V GATEWAY BLVD



PHASE V COMMERCE LAKES DRIVE



PHASE VI GATEWAY BLVD AND COMERCE LAKES DRIVE

CONSTRUCTION PHASING NOTES

PHASE V - OPERATIONS ARE TO CONSTRUCT THE NORTHWEST CORNER OF THE ROUNDABOUT, SIDEWALKS, DRIVEWAYS, DRAINAGE, AND CURB AND GUTTER.

1. INSTALL SIGNING ON BOTH MAINLINE AN INTERSECTING ROAD IN ACCORDANCE WITH THESE PLANS.
2. SHIFT TRAFFIC AND CHANNELIZING DEVICES FOR PHASE IV CONSTRUCTION.
3. CONSTRUCT REMAINING QUADRANT OF ROUNDABOUT.
4. DEMOLISH TEMPORARY PAVEMENT FROM PHASE IV.

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

1. INSTALL SIGNING ON BOTH MAINLINE AN INTERSECTING ROAD IN ACCORDANCE WITH INDEX NO. 102-601, 102-602 AND 102-603.
2. MILL AND RESURFACE GATEWAY BLVD AND COMMERCE LAKES DRIVE.
3. MOVE CHANNELIZING DEVISES AND SHIFT TRAFFIC TO FINAL TRAFFIC PATTERN ON NEWLY CONSTRUCTED ROADWAYS. CONSTRUCT SPLITTER ISLANDS, REMAINING SIDEWALK ON COMMERCE LAKES DRIVE, AS WELL AS CENTER OF THE ROUNDABOUT.
4. REMOVE TEMPORARY PAVEMENT FROM PHASE V.
4. COMPLETE INSTALLATION OF PERMANENT SIGNING WITHIN PROJECT LIMITS.
5. COMPLETE FRICTION COURSE WITHIN PROJECT LIMITS.
6. COMPLETE PLACEMENT OF THERMOPLASTIC PAVEMENT MARKINGS.

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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

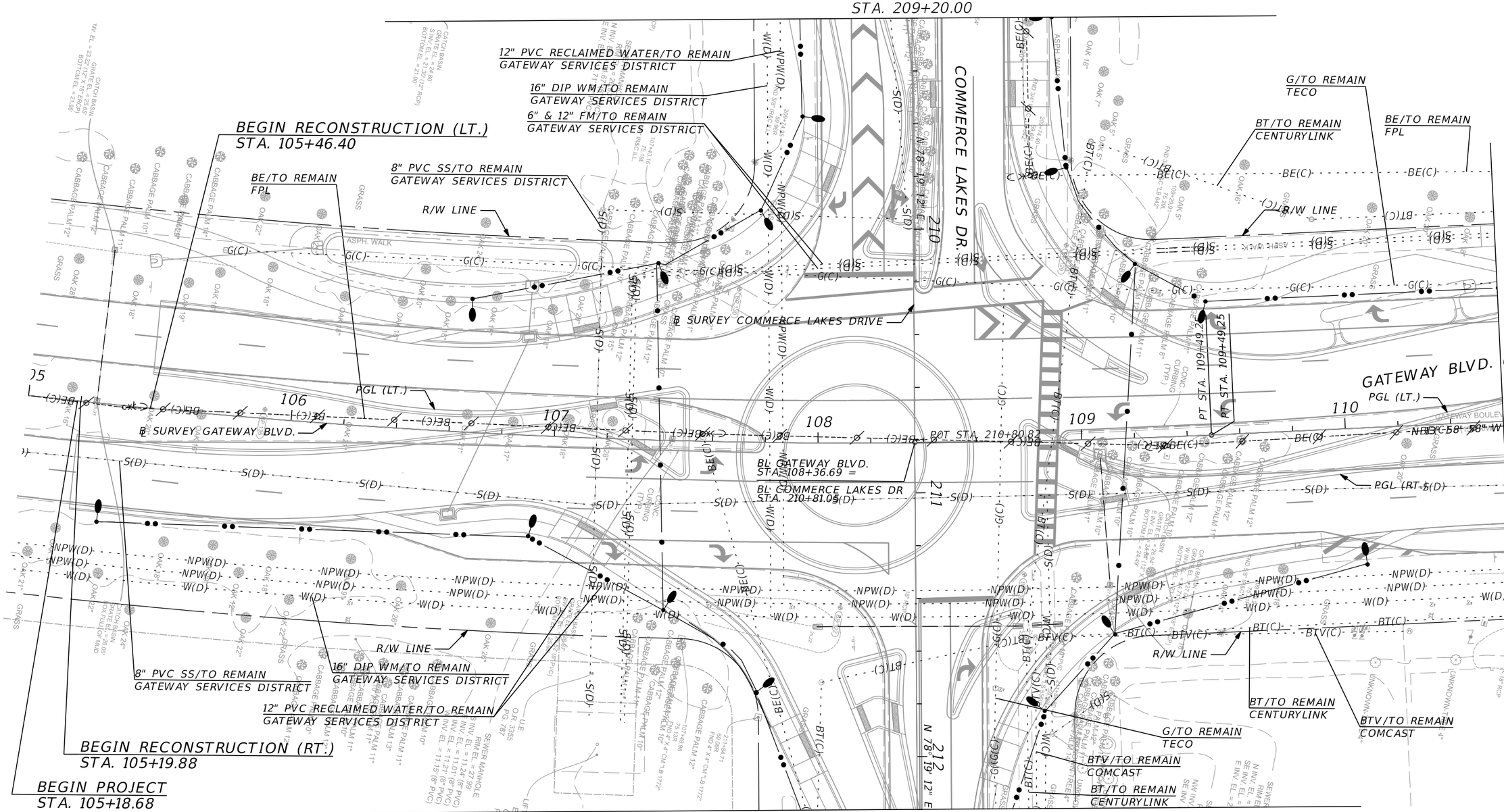
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

TEMPORARY TRAFFIC CONTROL

COUNTY PROJECT NO.	SHT. NO.
0671	45

1" = 40'

MATCHLINE – SEE UTILITY ADJUSTMENT PLAN (3)
STA. 209+20.00



MATCHLINE – SEE UTILITY ADJUSTMENT PLAN (4)
STA. 212+20.00

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

UTILITY ADJUSTMENT PLAN (1)
(GATEWAY BOULEVARD)

COUNTY PROJECT NO.	SHT. NO.
0671	46

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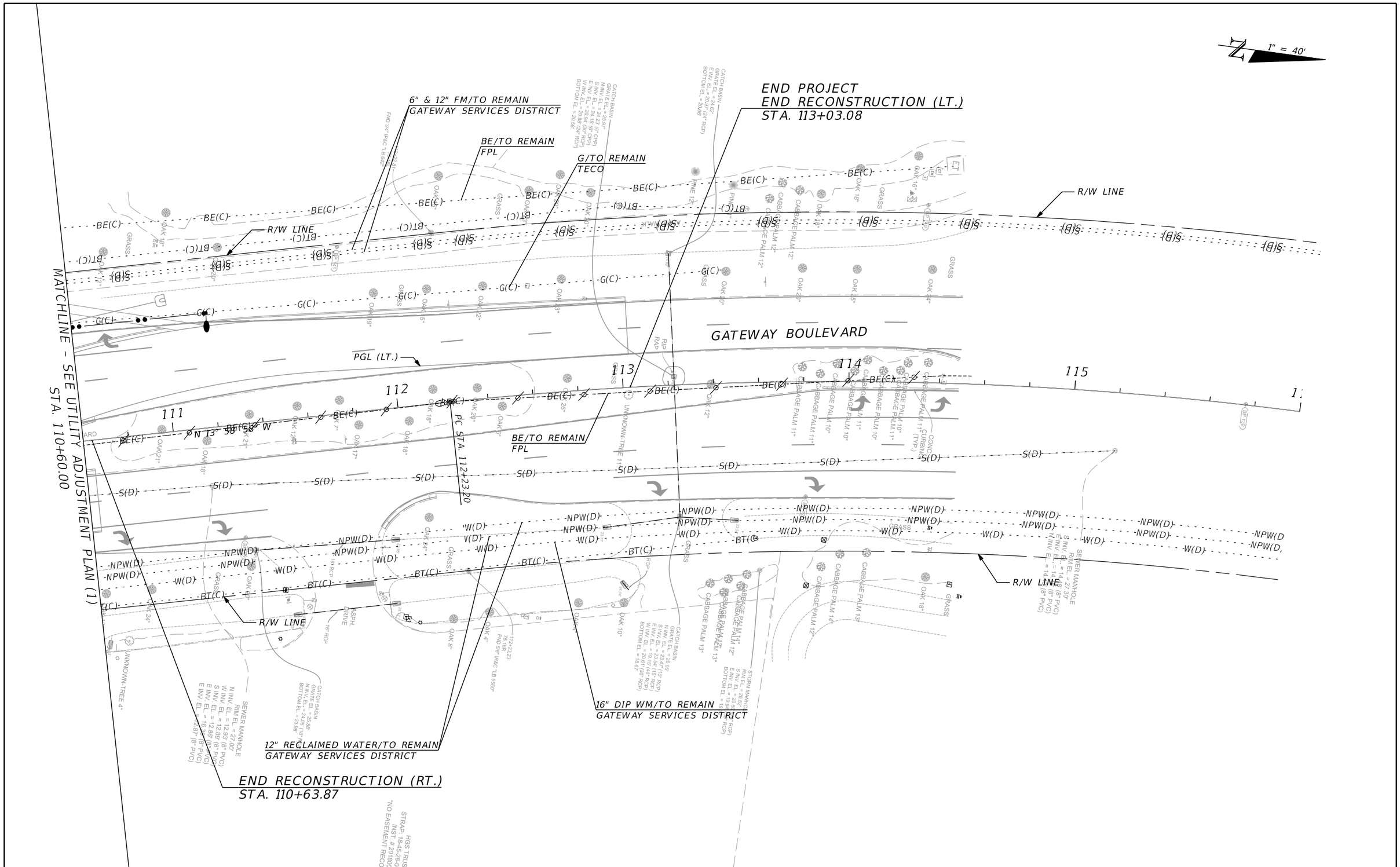

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

UTILITY ADJUSTMENT PLAN (2)
(GATEWAY BOULEVARD)

COUNTY PROJECT NO.	SHT. NO.
0671	47

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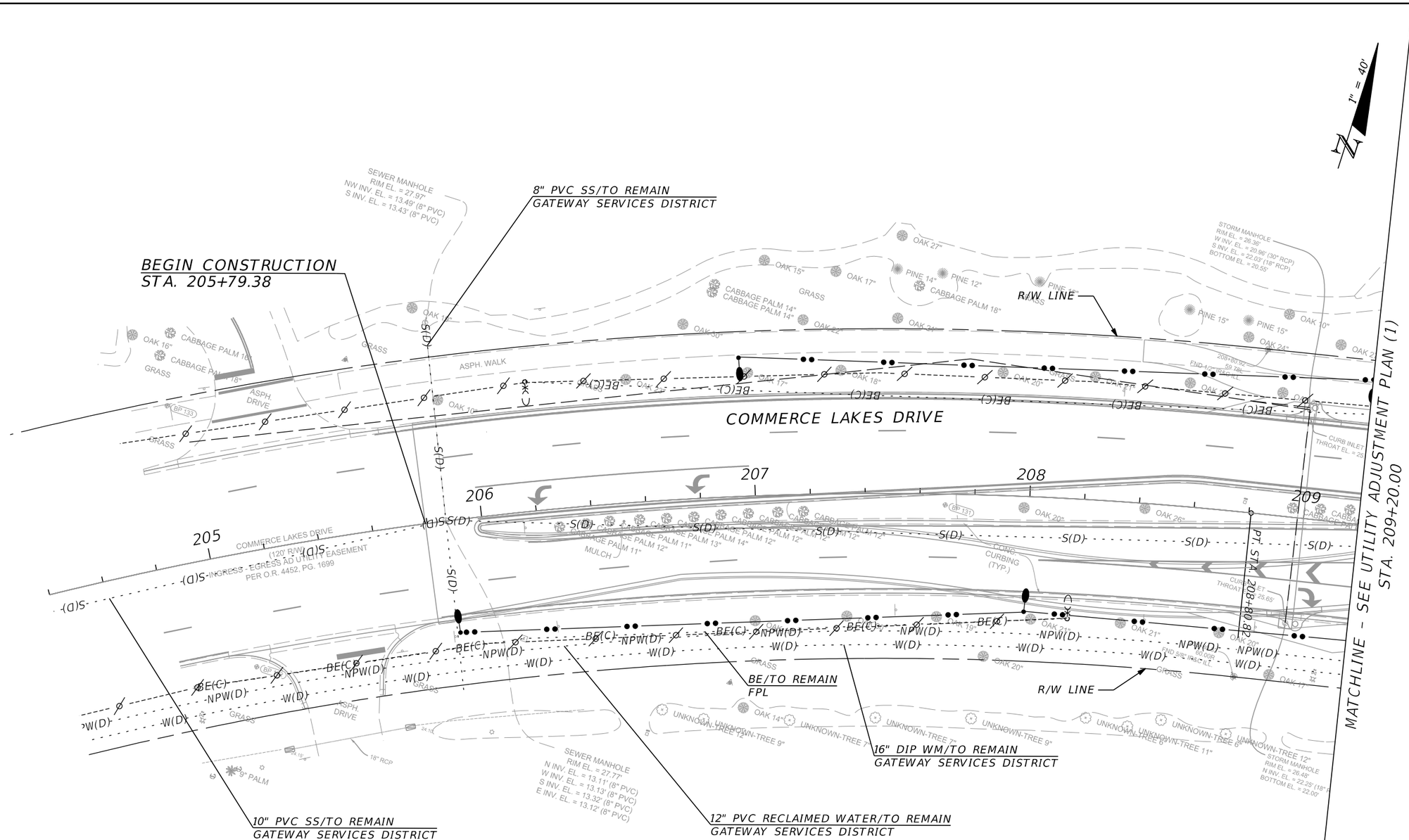

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Southwest Florida
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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

UTILITY ADJUSTMENT PLAN (3)
(COMMERCE LAKES DRIVE)

COUNTY PROJECT NO.	SHT. NO.
0671	48

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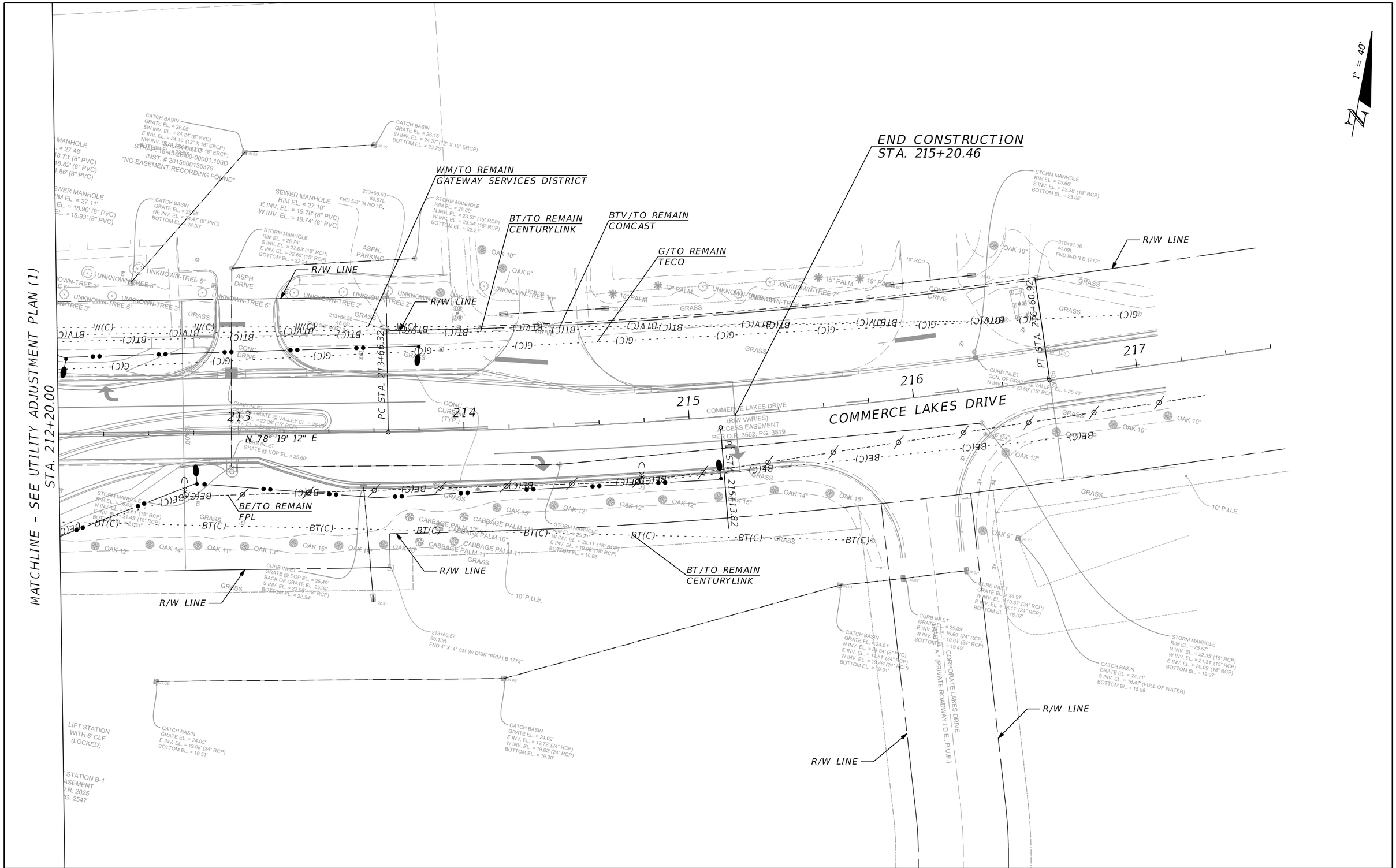

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

UTILITY ADJUSTMENT PLAN (4)
(COMMERCE LAKES DRIVE)

COUNTY PROJECT NO.	SHT. NO.
0671	49

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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.

102-909 TEMPORARY RAISED RUMBLE STRIPS INCLUDES PER DAY MEASUREMENT AND ALL SETS AND RELOCATES.

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	PHASE I			PHASE II			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
102-1	MAINTENANCE OF TRAFFIC	LS										
102-2-1	SPECIAL DETOUR 1	LS										
102-2-2	SPECIAL DETOUR 2	LS										
102-2-3	SPECIAL DETOUR 3	LS										
102-60	WORK ZONE SIGNS	ED										
		ED										
102-71-13	BARRIER WALL, TEMPORARY,F&I, LOW PROFILE, CONCRETE	LF										
102-71-23	BARRIER WALL, TEMPORARY,RELOCATE, LOW PROFILE, CONCRETE	LF										
102-74-1	CHANNELIZING DEVICE - TYPES I,II,DI,VP,DRUM, OR LCD	ED										
		ED										
102-76	ADVANCE WARNING ARROW PANEL	ED										
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA										
		EA										
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED										
102-909	TEMPORARY RAISED RUMBLE STRIPS	DA										
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM										
		GM										
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHTIE, SOLID, 24"	LF										
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM										
		GM										
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF										

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

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. SQ-1

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE III			PHASE IV			TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL	DURATION	QUANTITY	TOTAL				
			DAYS	P	P	DAYS	P	P	P	F		
102-1	MAINTENANCE OF TRAFFIC	LS										
102-2-1	SPECIAL DETOUR 1	LS										
102-2-2	SPECIAL DETOUR 2	LS										
102-2-3	SPECIAL DETOUR 3	LS										
102-60	WORK ZONE SIGNS	ED										
		ED										
102-71-13	BARRIER WALL, TEMPORARY,F&I, LOW PROFILE, CONCRETE	LF										
102-71-23	BARRIER WALL, TEMPORARY,RELOCATE, LOW PROFILE, CONCRETE	LF										
102-74-1	CHANNELIZING DEVICE - TYPES I,II,DI,VP,DRUM, OR LCD	ED										
		ED										
102-76	ADVANCE WARNING ARROW PANEL	ED										
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA										
		EA										
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED										
102-909	TEMPORARY RAISED RUMBLE STRIPS	DA										
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM										
		GM										
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF										
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM										
		GM										
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF										

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	PHASE V			TOTAL		GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL						
			DAYS	P	P	P	F	P	F		
102-1	MAINTENANCE OF TRAFFIC	LS									
102-2-1	SPECIAL DETOUR 1	LS									
102-2-2	SPECIAL DETOUR 2	LS									
102-2-3	SPECIAL DETOUR 3	LS									
102-60	WORK ZONE SIGNS	ED									
		ED									
102-71-13	BARRIER WALL, TEMPORARY,F&I, LOW PROFILE, CONCRETE	LF									
102-71-23	BARRIER WALL, TEMPORARY,RELOCATE, LOW PROFILE, CONCRETE	LF									
102-74-1	CHANNELIZING DEVICE - TYPES I,II,DI,VP,DRUM, OR LCD	ED									
		ED									
102-76	ADVANCE WARNING ARROW PANEL	ED									
102-78	TEMPORARY RETROREFLECTIVE PAVEMENT MARKER	EA									
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED									
102-909	TEMPORARY RAISED RUMBLE STRIPS	DA									
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM									
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHTIE, SOLID, 24"	LF									
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM									
710-11-224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF									

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. 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 TEMPORARY DRIVEWAYS

LOCATION STA. @ ℄ OF DRIVEWAY	SIDE	AREA ID	THK IN	0102 3 CY P	0102 3 CY F	DESIGN NOTES	CONSTRUCTION REMARKS
			SUB-TOTAL:				
			TOTAL:				

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. SQ-3

SUMMARY OF LITTER REMOVAL AND MOWING

CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL 0107 1					MOWING 0107 2					DESIGN NOTES	CONSTRUCTION REMARKS
	STA. TO STA.				AREA ID	CYCLES	AREA AC/CYCLE	TOTAL (AC) P	TOTAL (AC) F	AREA ID	CYCLES	AREA AC/CYCLE	TOTAL (AC) P	TOTAL (AC) F		
							SUB-TOTAL:					SUB-TOTAL:				
							TOTAL:					TOTAL:				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. 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 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													
110-4-10	REMOVAL OF EXISTING CONCRETE													

SUMMARY OF MAILBOXES

STATION	SIDE	QUANTITY 0110 7 1		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
SUB-TOTAL:					
TOTAL:					

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO.: 0671

SHT. NO.: SQ-5

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120-1	REGULAR EXCAVATION				
120-2	EMBANKMENT				

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

SUMMARY OF BASE COURSE

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION				P	F	P	F		
0160 4	TYPE B STABILIZATION					SY						
285 709	OPTIONAL BASE, BASE GROUP 09					SY						
						SY						
						SY						

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. SQ-6

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

SUMMARY OF TURNOUTS

LOCATION STA. TO STA.	SIDE	AREA ID	0286 1 SY P	0286 1 SY F	DESIGN NOTES	CONSTRUCTION REMARKS
SUB-TOTAL:						
TOTAL:						

SUMMARY OF PAVEMENT

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	LOCATION DESCRIPTION	SIDE	AREA ID	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
0334 1 52	SUPERPAVE ASPHALTIC CONCRETE					TN						
	(TRAFFIC C, PG 76-22)											
0337 7 81	ASPHALTIC CONCRETE FRICTION COURSE					TN						
	(TRAFFIC C, FC-9.5, PG 76-22)											
0350 30 13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON,					SY						
	12" DEPTH											

REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. 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 RAILING

LOCATION	SIDE	PIPE HANDRAIL - GUIDERAIL 0515 1 2		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.		LF			
		P	F		
SUB-TOTAL:					
TOTAL:					

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	LENGTH P	LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
520 1 7	CURB AND GUTTER, TYPE E									
520 1 10	CURB AND GUTTER, TYPE F									
520 2 4	CONCRETE CURB, TYPE D									
520 2 8	CONCRETE CURB, TYPE RA									

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON Y. YAM, P.E.
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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SUMMARY OF QUANTITIES

COUNTY PROJECT NO. 0671

SHT. NO. SQ-8

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	CONC SIDEWALK 4"		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
			0522 1		0522 2		0527 2			
STA. TO STA.			SY		SY		SF			
			P	F	P	F	P	F		

SUMMARY OF PERFORMANCE TURF

LOCATION			SIDE	AREA ID	PERFORMANCE TURF		PERFORMANCE TURF (SOD)		PREPARED SOIL LAYER		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 1		0570 1 2		0162 1 11			
STA. TO STA.					SY		SY		SY			
					P	F	P	F	P	F		

CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

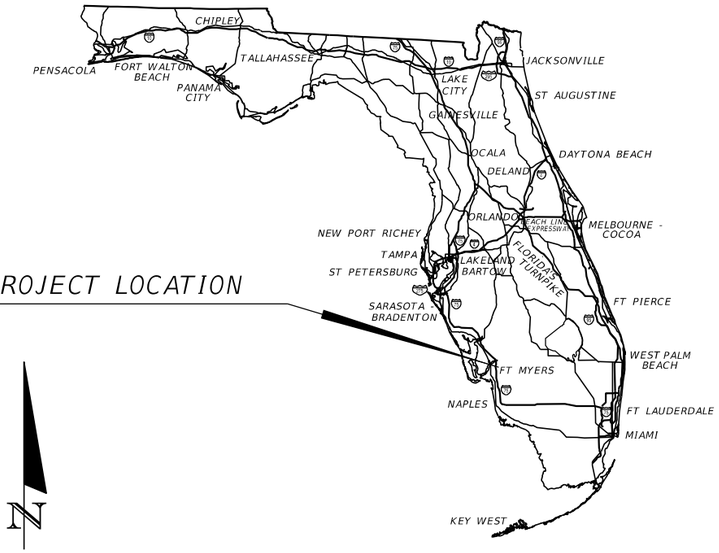
CONTRACT PLANS

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

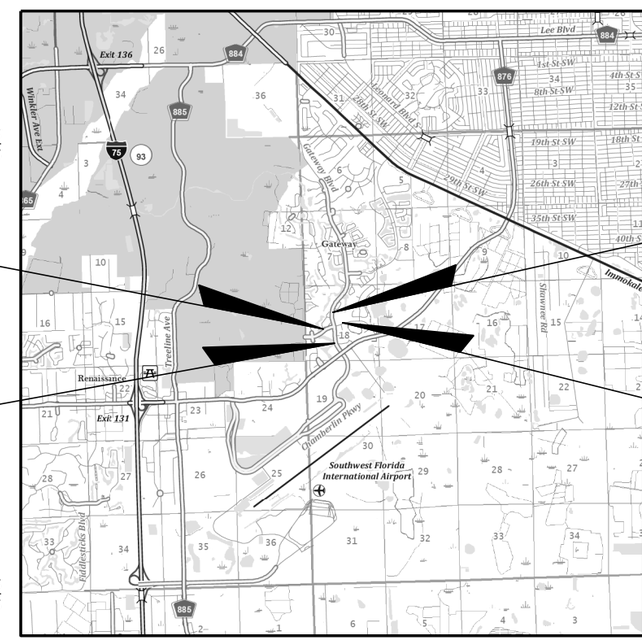
LEE COUNTY PROJECT NO. 0671

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	SUMMARY OF PAY ITEMS
S-3	PROJECT NOTES AND DETAILS
S-4 THRU S-7	SIGNING AND PAVEMENT MARKINGS



PROJECT LOCATION



BEGIN PROJECT
COMMERCE LAKES DR.
℄ SURVEY
STA. 205+79.38

END PROJECT
GATEWAY BLVD.
℄ SURVEY
STA. 113+03.08

BEGIN PROJECT
GATEWAY BLVD.
℄ SURVEY
STA. 105+18.68

END PROJECT
COMMERCE LAKES DR.
℄ SURVEY
STA. 215+20.46

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 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, JULY2019 Standard Specifications for Road and Bridge Construction at the following website:
http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SIGNING AND PAVEMENT MARKING 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.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	19	S-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS S-4 PLAN	S-4 FINAL	S-5 PLAN	S-5 FINAL	S-6 PLAN	S-6 FINAL	S-7 PLAN	S-7 FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
654-2-21	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- SINGLE DIRECTION	AS																		
654-2-22	RECTANGULAR RAPID FLASHING BEACON, F&I-SOLAR POWERED, COMPLETE SIGN ASSEMBLY- BACK TO BACK	AS																		
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS																		
700-1-50	SINGLE POST SIGN, RELOCATE	AS																		
700-1-60	SINGLE POST SIGN, REMOVE	AS																		
710-11-190	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ISLAND NOSE	SF																		
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF																		
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																		
*	RETRO-REFLECTIVE PAVEMENT MARKERS - BI-DIRECTIONAL WHITE/RED	EA																		
*	RETRO-REFLECTIVE PAVEMENT MARKERS - BI-DIRECTIONAL YELLOW/YELLOW	EA																		
*	STANDARD, WHITE, SOLID, 6"	GM																		
*	STANDARD, WHITE, SOLID, 12"	LF																		
*	STANDARD, WHITE, SOLID, 18"	LF																		
*	STANDARD, WHITE, SOLID, 24"	LF																		
*	STANDARD, YELLOW, SOLID, 6"	GM																		
*	STANDARD, YELLOW, SOLID, 18"	LF																		
*	STANDARD, WHITE, 2-2 DOTTED GUIDELINE, 12" FOR ROUNDABOUT	GM																		
*	STANDARD WHITE MESSAGE																			
*	YIELD	EA																		
*	AHEAD	EA																		
*	MERGE	EA																		
*	STANDARD WHITE ARROW	EA																		
*	LEFT	EA																		
*	THROUGH	EA																		
*	RIGHT	EA																		
*	THROUGH/RIGHT	EA																		
*	THROUGH/LEFT ROUNDABOUT	EA																		
*	THROUGH/LEFT	EA																		
*	MERGE	EA																		
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF																		
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	GM																		
711-11-144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED GUIDELINE, 12" FOR ROUNDABOUT	GM																		
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF																		
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF																		
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF																		
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA																		
	YIELD	EA																		
	AHEAD	EA																		
	MERGE	EA																		
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA																		
	LEFT	EA																		
	THROUGH	EA																		
	RIGHT	EA																		
	THROUGH/RIGHT	EA																		
	THROUGH/LEFT ROUNDABOUT	EA																		
	THROUGH/LEFT	EA																		
	MERGE	EA																		
711-16-101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	GM																		
711-16-102	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 8"	GM																		
711-16-131	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP	GM																		
711-16-201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	GM																		

* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO. 710-90.
THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

TABULATION OF QUANTITIES

COUNTY PROJECT NO.: 0671

SHT. NO.: S-2

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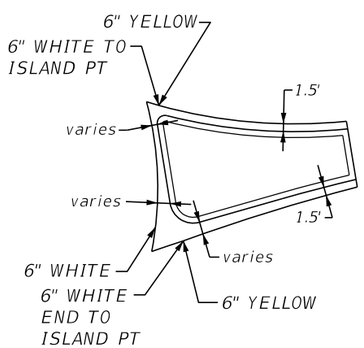
SIGNING AND PAVEMENT MARKING NOTES:

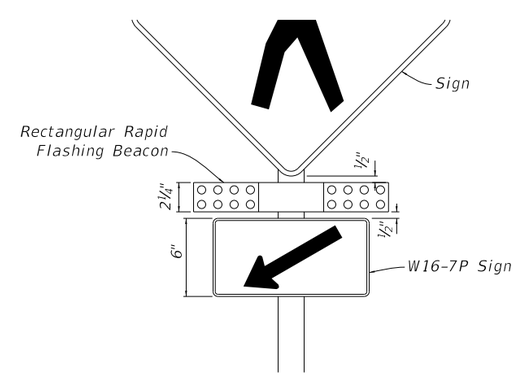
1. SIGNS SHALL BE PLACED BASED ON FDOT INDEX NO. 700-101, UNLESS OTHERWISE NOTED ON PLANS. ALL SIGNS MOUNTED OVER SIDEWALKS SHALL HAVE A VERTICAL CLEARANCE OF EIGHT FEET (8') STANDARD.
2. UNLESS OTHERWISE NOTED ON PLAN SHEETS, ALL CROSSWALKS SHALL BE TEN FEET (10') IN WIDTH. MEASUREMENTS SHALL BE FROM INSIDE TO INSIDE OF 12" STRIPES.
3. ALL PAVEMENT MARKINGS AND CROSSING MARKINGS ARE TO CONFORM TO FDOT INDEX NO. 711-001 AND 711-002 UNLESS OTHERWISE SHOWN ON PLANS.
4. REFER TO FDOT INDEX NO. 706-001 FOR PLACEMENT, TYPE AND SPACING OF ALL REFLECTIVE PAVEMENT MARKERS (RPM'S) UNLESS OTHERWISE SHOWN ON PLANS.
5. FINAL ASPHALT COURSE SHALL HAVE TEMPORARY PAVEMENT MARKINGS FOR 14 DAYS PRIOR TO INSTALLATION OF FINAL (PERMANENT) THERMOPLASTIC MARKINGS.
6. ALL THE TEMPORARY PAVEMENT MARKINGS NOT FULLY COVERED BY THE PERMANENT PAVEMENT SHALL BE REMOVED PRIOR TO INSTALLING FINAL (PERMANENT) THERMOPLASTIC MARKINGS.
7. PAVEMENT MARKING AROUND THE NOSES OF ROUNDABOUT MEDIAN ISLANDS SHALL BE COMPLETED AS SHOWN IN THE MEDIAN ISLAND DETAIL, UNLESS OTHERWISE SHOWN ON THE PLAN.
8. PAY ITEM 700-1-11: ALL SIGN POSTS SHALL BE SELECTED USING THE PROCESS DESCRIBED IN FDOT DESIGN STANDARD INDEX NO. 700-010. ALL SIGN REFLECTIVE SHEETING SHALL BE TYPE 11 DIAMOND GRADE.

RRFB NOTES:

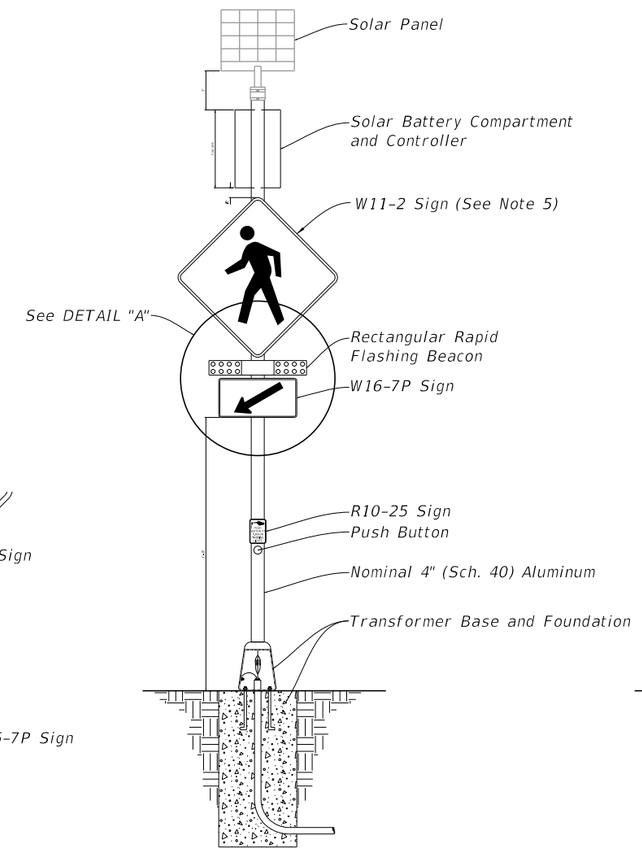
1. A TRANSFORMER BASE IS REQUIRED FOR BOTH CONVENTIONALLY-POWERED AND SOLAR-POWERED APPLICATIONS.
2. INSTALL THE RRFB IN PAIRS, ONE ON EITHER SIDE OF APPROACH TRAFFIC.
3. INSTALL CONTROLLER ON THE BACKSIDE OF POST FROM APPROACH TRAFFIC.
4. INSTALL A 30" X 30" W11-2 SIGN ON TWO-LANE ROADWAYS AND A 36" X 36" W11-2 SIGN FOR MULTILANE ROADWAYS.
5. INSTALL PUSH BUTTON AND R10-25 SIGN IN ACCORDANCE WITH INDEX 665-001.
6. ENGAGE ALL THREADS ON THE TRANSFORMER BASE AND POST UNLESS THE ALUMINUM POST IS FULLY SEATED INTO BASE.
7. MEET THE REQUIREMENTS OF SPECIFICATION 646 FOR ALUMINUM POLES AND TRANSFORMER BASES.
8. INSTALL A CONCRETE SLAB AROUND ALL PULL BOXES. tHE MINIMUM SLAB DIMENSION IS 4'-0" BY 4'-0". IN URBAN AREAS WHERE SPACE IS LIMITED SLAB DIMENSIONS MAY BE ADJUSTED AS SHOWN IN THE PLANS.
9. FOR ASSEMBLIES CONNECTED TO CONVENTIONAL POWER, PROVIDE SINGLE POLE NON-FUSED WATERTIGHT BREAKAWAY ELECTRICAL CONNECTORS IN THE FRANGIBLE TRANSFORMER BASE.
10. WHEN WIRE ENTRY HOLES ARE DRILLED IN THE SIGN COLUMN, USE A BUSHING OR RUBBER GROMMET TOPROTECT CONDUCTORS.
11. FOR SOLAR-POWERED APPLICATIONS, ORIENT SOLAR PANEL TO FACE SOUTH FOR OPTIMAL EXPOSURE TO SUNLIGHT.



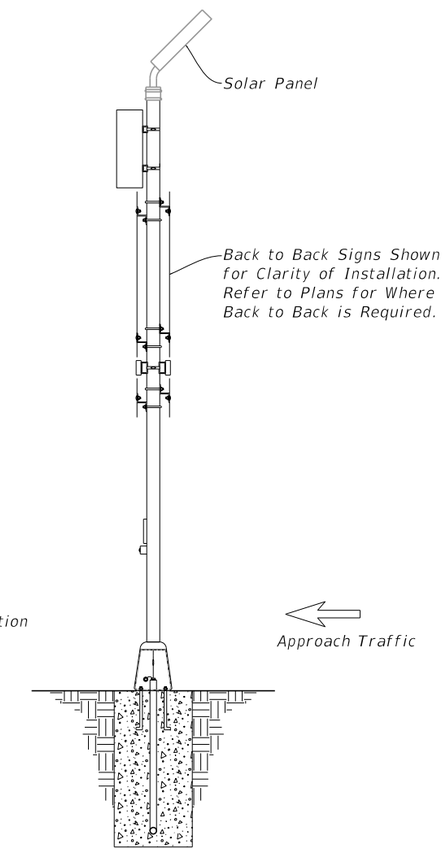
MEDIAN ISLAND DETAIL (TYP.)



DETAIL "A"



FRONT VIEW



SIDE VIEW

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

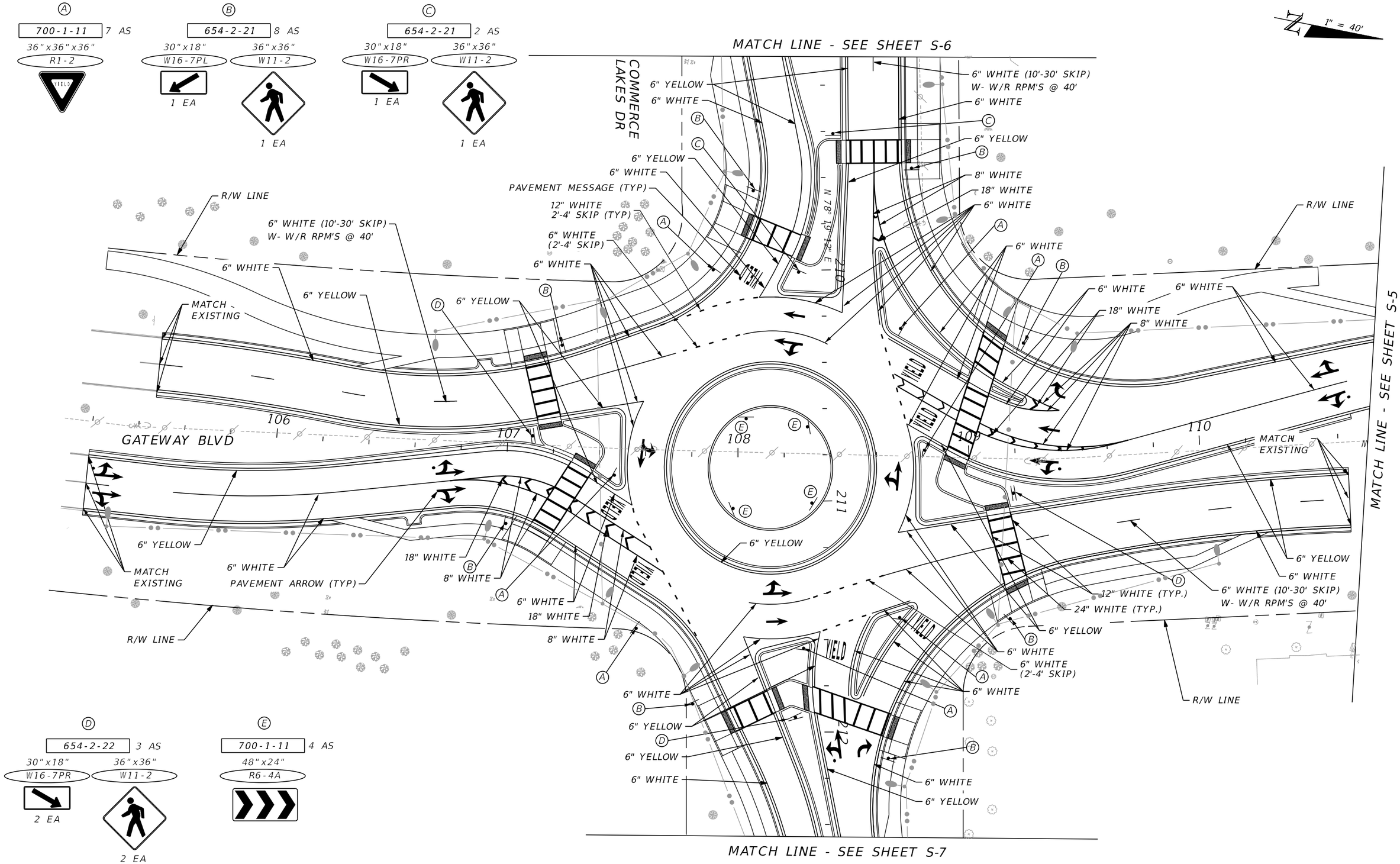
JASON Y. YAM, P.E.
P.E. LICENSE NUMBER 62449
CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FLORIDA 33759
CERTIFICATE OF AUTHORIZATION 29915

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

PROJECT NOTES AND DETAILS

COUNTY PROJECT NO.	SHT. NO.
0671	S-3



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DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SIGNING AND PAVEMENT MARKINGS (1)

COUNTY PROJECT NO.	SHT. NO.
0671	S-4

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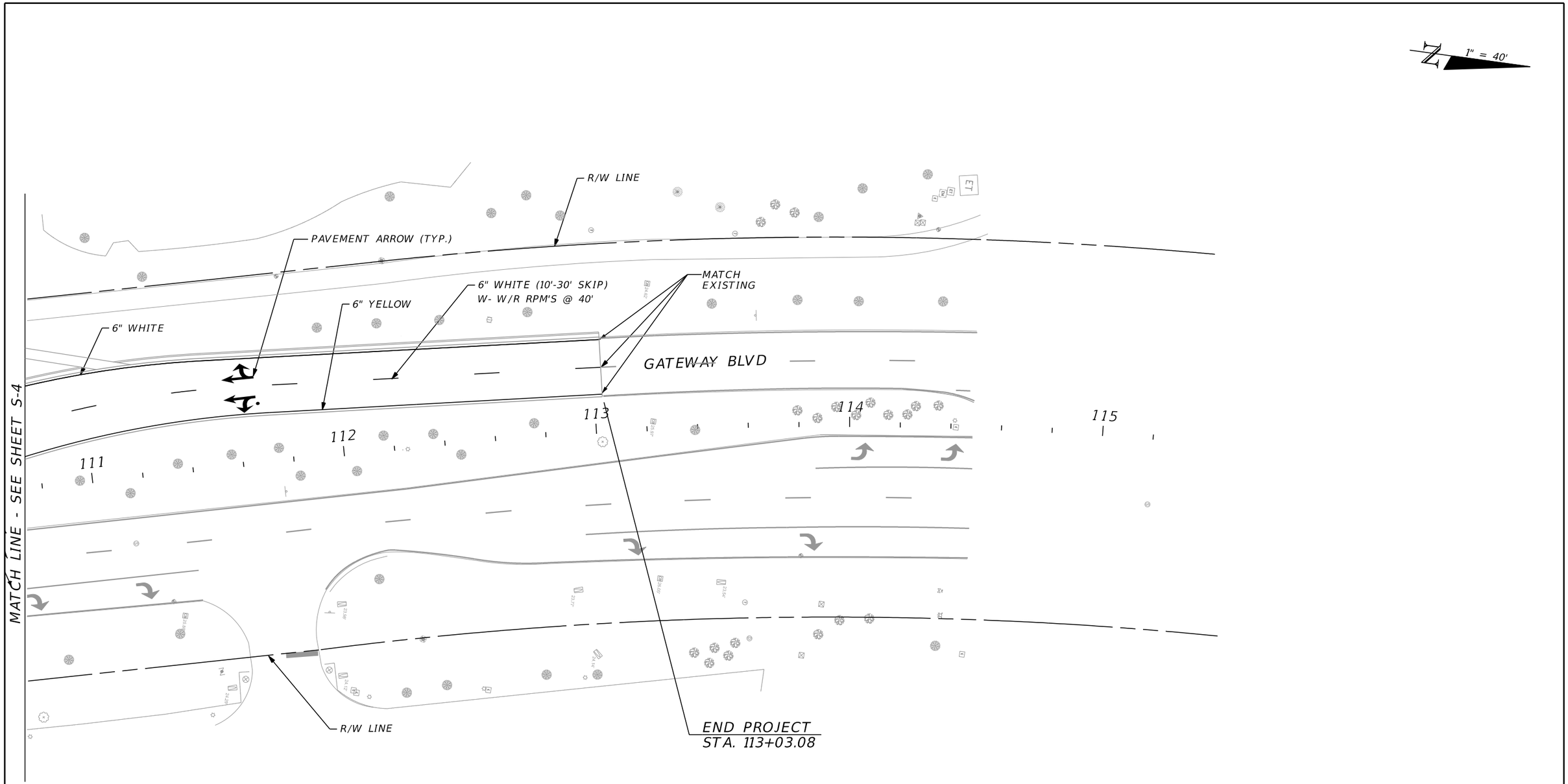

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380 PARK PLACE BOULEVARD, SUITE 300
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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SIGNING AND PAVEMENT MARKINGS (2)

COUNTY PROJECT NO.	SHT. NO.
0671	S-5

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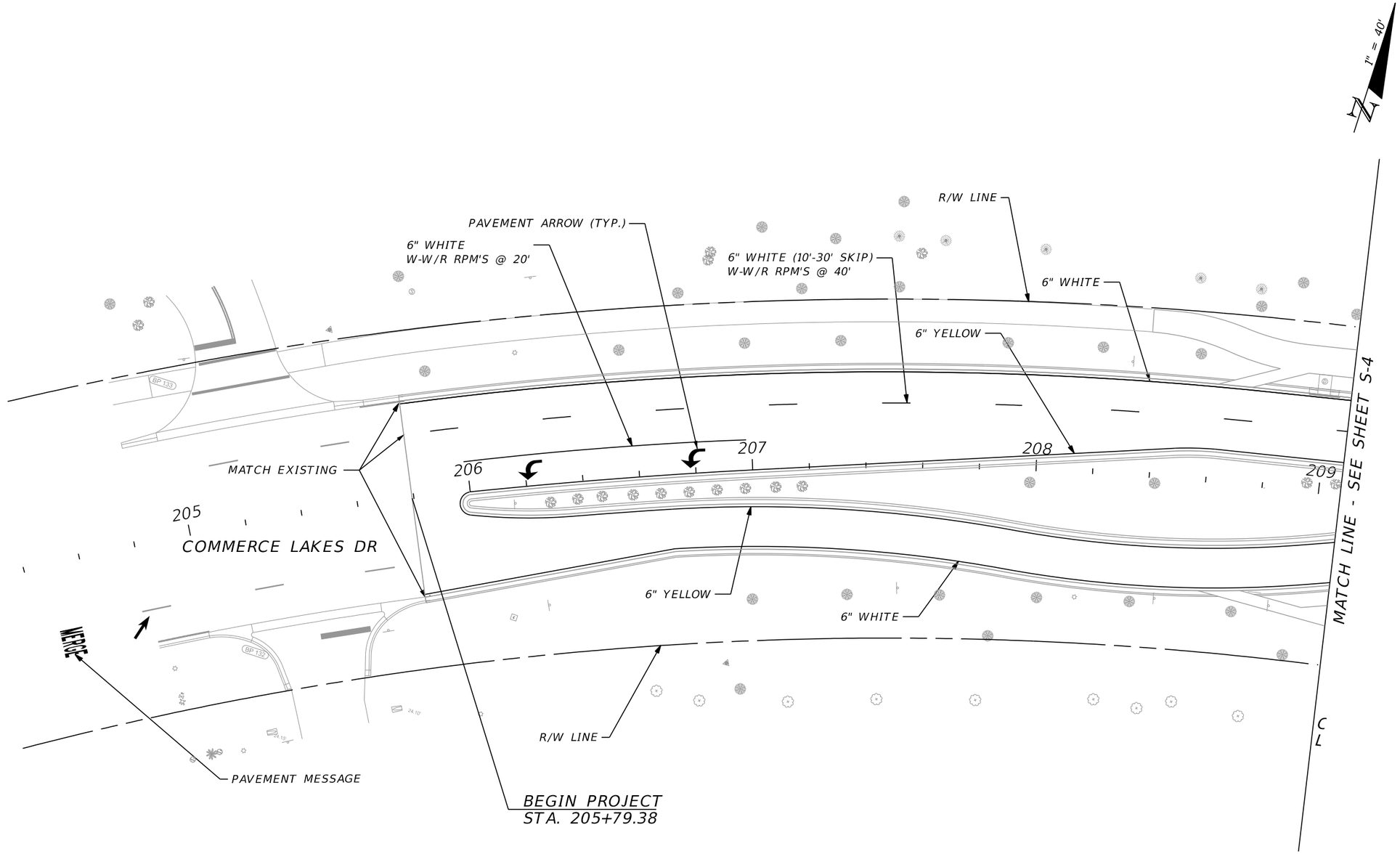

REVISIONS			
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CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
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Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SIGNING AND PAVEMENT MARKINGS (3)

COUNTY PROJECT NO.	SHT. NO.
0671	S-6

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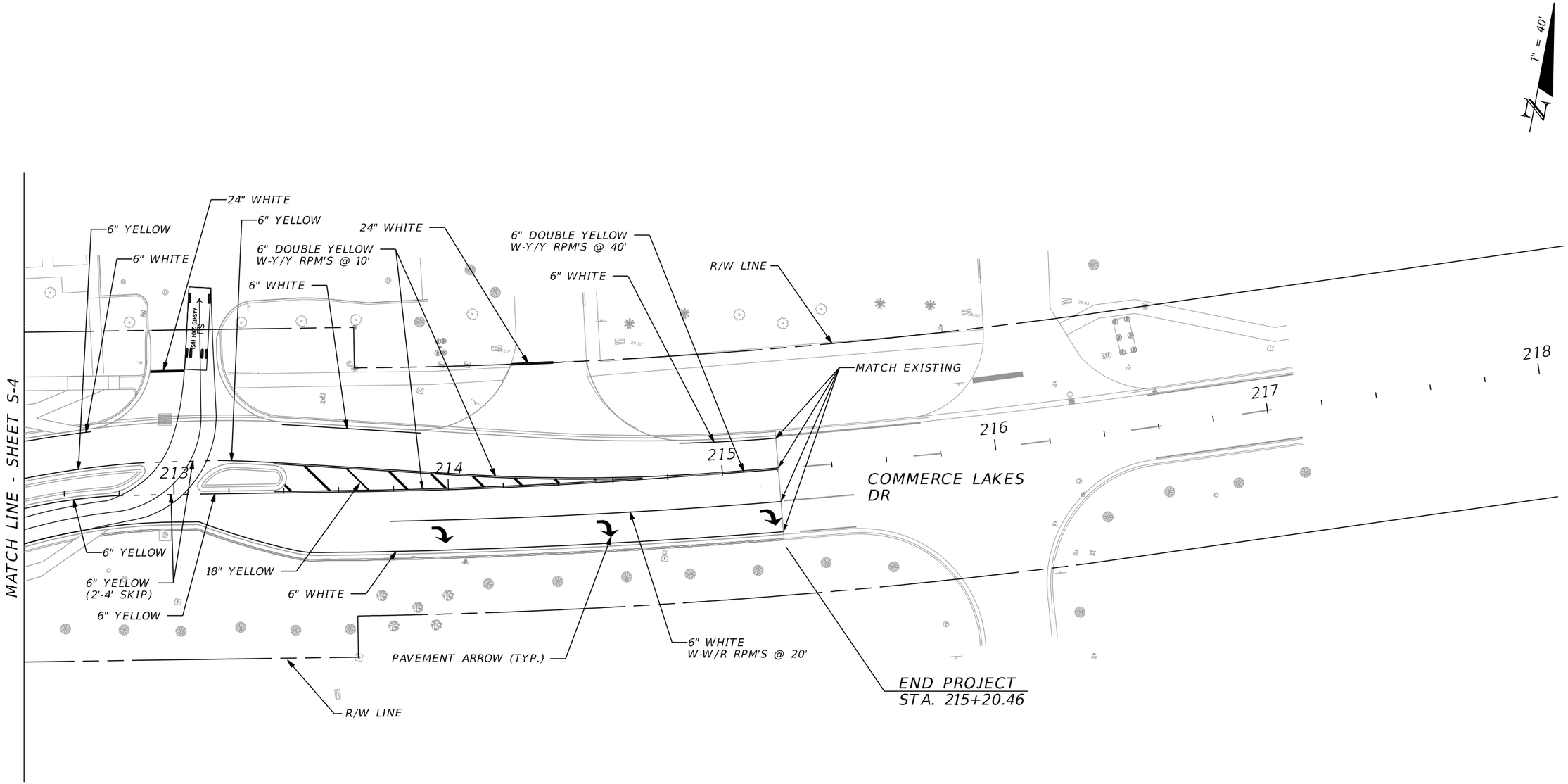

REVISIONS			
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JASON Y. YAM, P.E.
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CARDNO, INC.
380 PARK PLACE BOULEVARD, SUITE 300
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CERTIFICATE OF AUTHORIZATION 29915

Lee County
Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

SIGNING AND PAVEMENT MARKINGS (4)

COUNTY PROJECT NO.	SHT. NO.
0671	S-7

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CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LIGHTING PLANS

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

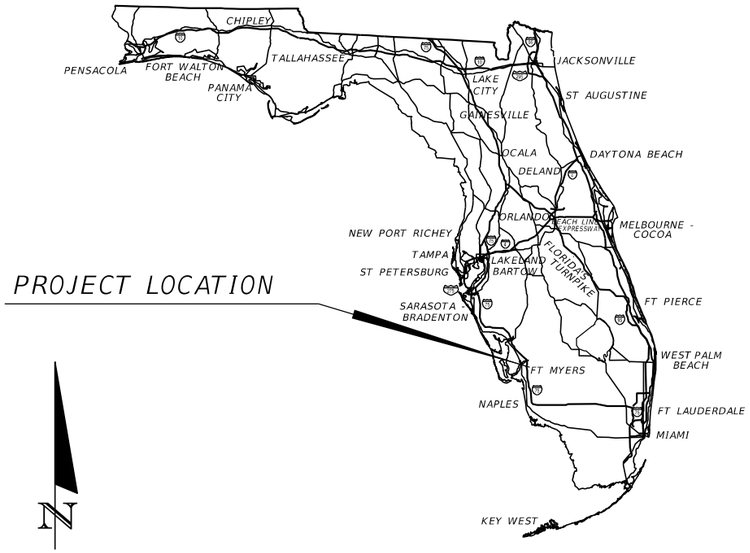
LIGHTING PLANS

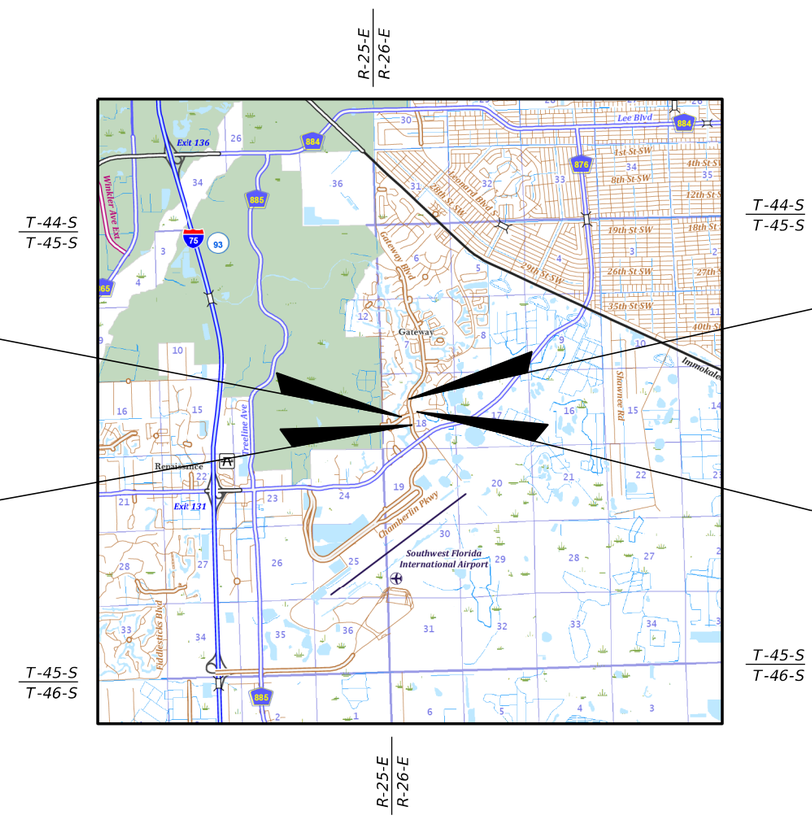
GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LEE COUNTY PROJECT NO. 0671

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	GENERAL NOTES
L-4	POLE DATA AND LEGEND
L-5 TO L-8	LIGHTING PLAN
L-9	SERVICE POINT DETAILS





GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2019-20 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:

Florida Department of Transportation, JULY2019 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

LIGHTING PLANS ENGINEER OF RECORD:

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P.E. NO. 58540
CARDNO, INC.
3905 CRESCENT PARK DR.
RIVERVIEW FL. 33578
(813) 257-0005
CONTRACT NO.: 160311
VENDOR NO.:
CERTIFICATE OF AUTHORIZATION NO.: 29915

COUNTY PROJECT MANAGER:

Alejandro J. Slaibe, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
160311	19	L-1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF																		
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO 8 TO NO 6	LF																		
715-4-12	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT	EA																		
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA																		
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA																		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA																		

PAY ITEM FOOTNOTES

1. PAY ITEM 630-2-11:
   THE CONDUITS SHALL BE FITTED WITH BELL ENDS OR EQUIVALENT FITTINGS PRIOR TO THE PULLING OF ANY WIRE INTO THE CONDUITS.

2. PAY ITEM 630-2-12:
   ALL PROPOSED CONDUITS TO BE POPULATED WITH CONDUCTORS SHALL BE FITTED WITH BELL ENDS OR EQUIVALENT FITTINGS PRIOR TO THE PULLING OF ANY WIRE INTO THE CONDUITS.

3. PAY ITEM 635-2-11:
   THE PULL BOXES SHALL HAVE "STREET LIGHTING" STAMPED IN RAISED LETTERING ON THE PULL BOX COVERS.

4. PAY ITEM 715-4-12:
   THE LUMINAIRE SHALL BE AN AMERICAN ELECTRIC LIGHTING AUTOBAUHN ATB2 138 WATT LED LUMINAIRE WITH 40BLEDE10 PERFOMANCE PACKAGE, 4000K COLOR TEMPERATURE, DISTRIBUTION TYPE III, HOUSE SIDE SHIELDS AND THE FIELD ADJUSTABLE OUTPUT MODULE.

5. PAY ITEM 715-4-70:
   INCLUDES THE REMOVAL OF POLE, BRACKET ARM, LUMINAIRE, TRANSFORMER BASE, FOUNDATION, ASSOCIATED WIRING AND THE FILLING OF VOIDS OF THE REMOVED FOUNDATIONS. UNLESS OTHERWISE NOTED, THE REMOVED ITEMS, EXCEPT FOR THE CONCRETE FOUNDATIONS, SHALL BE TURNED OVER TO LEE COUNTY, OR AS DIRECTED BY THE ENGINEER. LEE COUNTY'S TRAFFIC OPERATIONS DIVISION SHALL BE CONTACTED A MINIMUM OF 24 HOURS PRIOR TO DELIVERY. THE COST OF DELIVERY AND UNLOADING OF THE REMOVED EQUIPMENT IS INCLUDED IN THIS PAY ITEM.

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3905 CRESCENT PARK DRIVE
RIVERVIEW, FL 33578
CERTIFICATE OF AUTHORIZATION: 29915

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

TABULATION OF QUANTITIES

COUNTY NO. 160311

SHT. NO. L-2

ROADWAY LIGHTING GENERAL NOTES

1. SPARE CONDUIT AT PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.

2. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THE SHOP DRAWINGS AND DESIGN DATA FOR ROADWAY LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN ACCORDANCE WITH THE SPECIFICATIONS.

3. PROVIDE SHOP DRAWINGS OF THE PHOTOMETRIC CALCULATIONS FOR LUMINAIRES OTHER THAN THE BASIS OF DESIGN. THE LUMINAIRE BASIS OF DESIGN IS THE AMERICAN ELECTRIC LIGHTING AUTOBAHN ATB2 138 WATT LED LUMINAIRE 4000K COLOR TEMPERATURE AND TYPE III DISTRIBUTION. THE PHOTOMETRIC CURVE USED FOR THE BASIS OF DESIGN IS ATB2_40BLEDE10_XXXXX_R3_HS. SEE POLE DATA AND LEGEND SHEET AND PAY ITEM FOOTNOTES FOR ADDITIONAL INFORMATION. MEET ALL PHOTOMETRIC REQUIREMENTS IN THE CONTRACT DOCUMENTS AND THE FDOT DESIGN MANUAL.

4. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.

5. BEFORE EXCAVATING, IT IS REQUIRED THAT NOTICE BE GIVEN TO SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) AT 1-800-432-4770 A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE WORK BEGINS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.

6. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR WITH APPROVAL FROM THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS. THE MAINTENANCE SLAB ORIENTATION SHALL BE DETERMINED BY THE CONTRACTOR PER INDIVIDUAL POLE LOCATION.

7. CONCRETE POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.

8. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER NEC REQUIREMENTS.

9. IN ACCORDANCE WITH NEC, IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HAND HOLE FOR EACH POLE.

10. THE CONTRACTOR SHALL NOTIFY THE LOCAL POWER COMPANY(S) AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE DISTANCE PER CURRENT OSHA REQUIREMENTS OF ENERGIZED ELECTRICAL CONDUCTORS. THE LOCAL POWER COMPANY(S), AT ITS OPTION, SHALL ASSIST THE CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITES OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.

11. OVERHEAD FACILITIES ARE TO REMAIN ENERGIZED AND IN PLACE. TABLE "A", MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333(c)(3)(i)(A) AND (iii)(A) FOR WORK IN PROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, ARE TO BE MAINTAINED.

12. AT LOCATIONS WHERE THE PROXIMITY OF THE INSTALLATION IS CLOSE TO THE EXISTING OVERHEAD POWER, AS DETERMINED BY THE ENGINEER, A "LOW PROFILE" RIG SHALL BE REQUIRED TO DRILL THE FOUNDATION AND INSTALL THE LIGHT POLES.

13. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY THE NEC OR NESC FOR CABLE USED.

14. NO SCREW TYPE BASE FOUNDATIONS SHALL BE USED ON THIS PROJECT.

15. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE SPECIFIED IN THE PLANS.

16. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOOTER OR CONDUIT RUN, AS DETERMINED BY THE CONTRACTOR AND/OR ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.

17. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS THAT REQUIRES THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION.

18. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORK PERIOD.

19. THE LIGHTING SYSTEM WILL BE MAINTAINED BY GATEWAY SERVICE DISTRICT UPON FINAL ACCEPTANCE.

20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.

21. UPON PASSING THE FINAL INSPECTION, SEND A WRITTEN REQUEST TO THE FOLLOWING:

    CHRIS SHOEMAKER
    GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT
    13240 GRIFFIN DRIVE
    FORT MYERS, FLORIDA 33913
    PHONE: 259-561-1313

22. REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT. GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT WILL RESPOND WITHIN FIVE (5) WORKING DAYS TO ESTABLISH TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILTY.

23. WHEN CONSTRUCTION IS COMPLETE, A HARD COPY SET OF "AS-BUILT" PLANS IN ADDITION TO AN ELECTRONIC COPY (pdf) IS TO BE SUBMITTED TO:

    CHRIS SHOEMAKER
    GATEWAY SERVICE COMMUNITY DEVELOPMENT DISTRICT
    13240 GRIFFIN DRIVE
    FORT MYERS, FLORIDA 33913
    PHONE: 259-561-1313

24. LIGHT POLES AND PULL BOXES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DITCHES, WETLANDS, DRIVEWAYS, SURFACE WATER, PAVED SHOULDERS OR PEDESTRIAN RAMPS.

25. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUIT OR PULL BOXES ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

26. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOOTER SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER PAY ITEMS 715-4-12 AND 715-4-15.

CONDUIT LEGEND

LC = LIGHTING CONDUIT POPULATED WITH CONDUCTORS
SP = EMPTY SPARE LIGHTING CONDUIT

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Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

GENERAL NOTES

COUNTY NO.	SHT. NO.
160311	L-3

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK TO CENTER OF POLE	PAY ITEM
1	A-#	205+87, BL COMMERCE RT	8	138	35'	5' FROM FOC	715-4-12
2	A-#	206+96, BL COMMERCE LT	8	138	35'	5' FROM FOS	715-4-12
3	A-#	207+99, BL COMMERCE RT	8	138	35'	5' FROM FOC	715-4-12
4	A-#	209+20, BL COMMERCE LT	8	138	35'	4' FROM BOS	715-4-12
5	A-#	209+57, BL COMMERCE RT	8	138	35'	4' FROM BOS	715-4-12
6	A-#	209+77, BL COMMERCE LT	8	138	35'	4' FROM BOS	715-4-12
7	A-#	209+93, BL COMMERCE RT	8	138	35'	4' FROM BOS	715-4-12
8	A-#	109+23, BL GATEWAY LT	8	138	35'	4' FROM BOS	715-4-12
9	A-#	107+39, BL GATEWAY LT	8	138	35'	4' FROM BOS	715-4-12
10	A-#	109+49, BL GATEWAY LT	8	138	35'	4' FROM BOS	715-4-12
11	A-#	106+66, BL GATEWAY LT	8	138	35'	4' FROM BOS	715-4-12
12	A-#	111+20, BL GATEWAY LT	8	138	35'	5' FROM FOC	715-4-12
13	A-#	105+31, BL GATEWAY RT	8	138	35'	5' FROM FOC	715-4-12
14	A-#	110+06, BL GATEWAY RT	8	138	35'	4' FROM BOS	715-4-12
15	A-#	106+92, BL GATEWAY RT	8	138	35'	4' FROM BOS	715-4-12
16	A-#	109+10, BL GATEWAY RT	8	138	35'	4' FROM BOS	715-4-12
17	A-#	107+43, BL GATEWAY RT	8	138	35'	4' FROM BOS	715-4-12
18	A-#	211+83, BL COMMERCE LT	8	138	35'	4' FROM BOS	715-4-12
19	A-#	211+75, BL COMMERCE RT	8	138	35'	10' FROM FOC	715-4-12
20	A-#	212+24, BL COMMERCE LT	8	138	35'	4' FROM BOS	715-4-12
21	A-#	212+81, BL COMMERCE RT	8	138	35'	7' FROM FOC	715-4-12
22	A-#	213+81, BL COMMERCE LT	8	138	35'	5' FROM FOS	715-4-12
23	A-#	215+12, BL COMMERCE RT	8	138	35'	5' FROM FOC	715-4-12

FOC = FACE OF CURB, FOS = FRONT OF SIDEWALK, BOS = BACK OF SIDEWALK

ROUNDABOUT
LIGHTING DESIGN CRITERIA

Average Horizontal Initial Intensity	3.0 Foot Candles
Average Vertical Initial Intensity	2.3 Foot Candles
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less
Veiling Luminance Ratio	0.3:1 Or Less
Wind Speed	170 MPH

LEGEND

SYMBOLS	DESCRIPTION
	Designed for a American Electric Lighting Autobahn ATB2 138 watt LED luminaire with 4000k color temperature, Roadway Type III distribuiton. See pay item footnotesd for additional luminiare informarmation. Luminiare shall be wired for 480 volt operation. Pole mounting height is 35 feet with an 8-foot arm length mounted on a standard light pole. No tilt. Lighting basis of design used AEL Autobahn ATB2 photometric curve number ATB2_40BLEDE10_XXXXX_R3_HS with output lumens of 16,000. Symbol includes FDOT specified maintenance slab, pull box, pole cable distribution system and standard foundation. Pull box and pole cable distribution system to be paid separately.
	Existing pole and luminaire to remain.
	Existing pole and luminaire to be removed.
	Existing conduit and conductors to remain unless noted otherwise.
	Proposed open trench conduit with THWN-2 conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) No. 4 AWG (minimum) copper bond conductor (THWN green insulation) inside conduit with other conductors.
	Proposed conduit directional bored under pavement with THWN-2 conductors inside (conduit and conductor size as shown on plan sheets). Extend conduit beyond edge of pavement to pull boxes. Run one (1) No. 6 AWG (minimum) copper bond conductor (THWN green insulation) inside conduit with other conductors.
	Pull box with concrete apron. For specifications see Section 635 of Standard Specifications For Road And Bridge Construction.
	Existing Load Center to remain.

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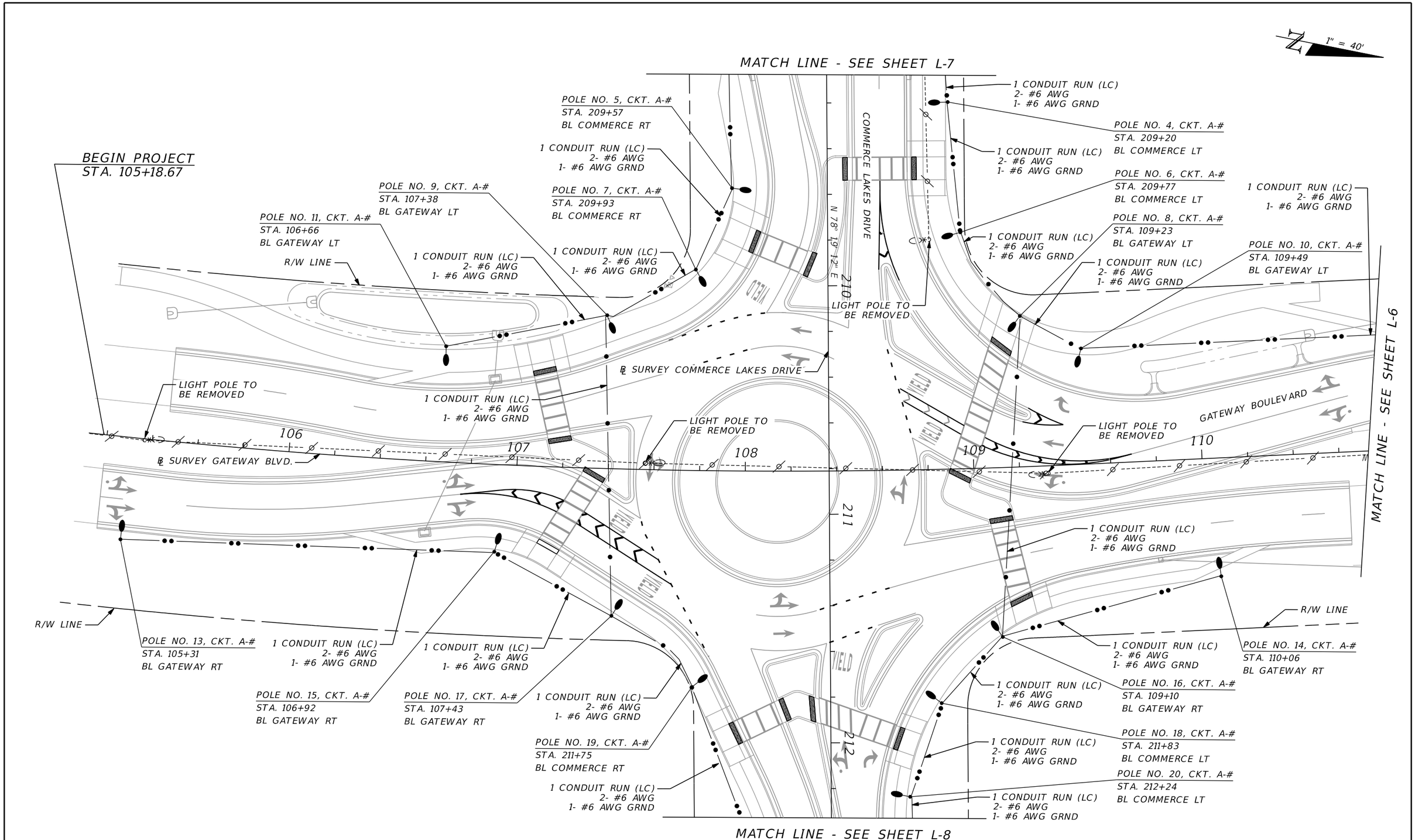
Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

POLE DATA AND LEGEND

COUNTY NO. 160311

SHT. NO. L-4



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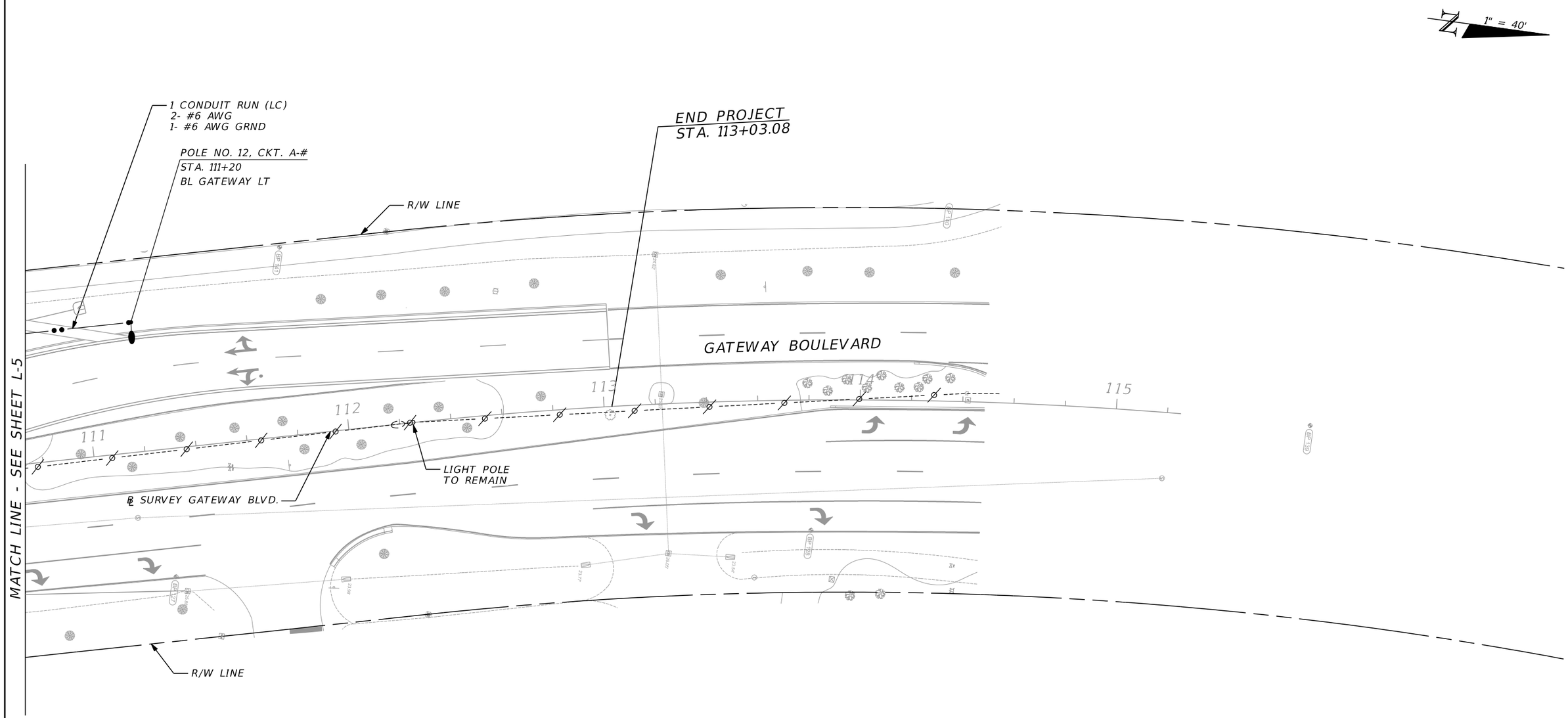
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LIGHTING PLAN (1)

COUNTY NO.	SHT. NO.
160311	L-5



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

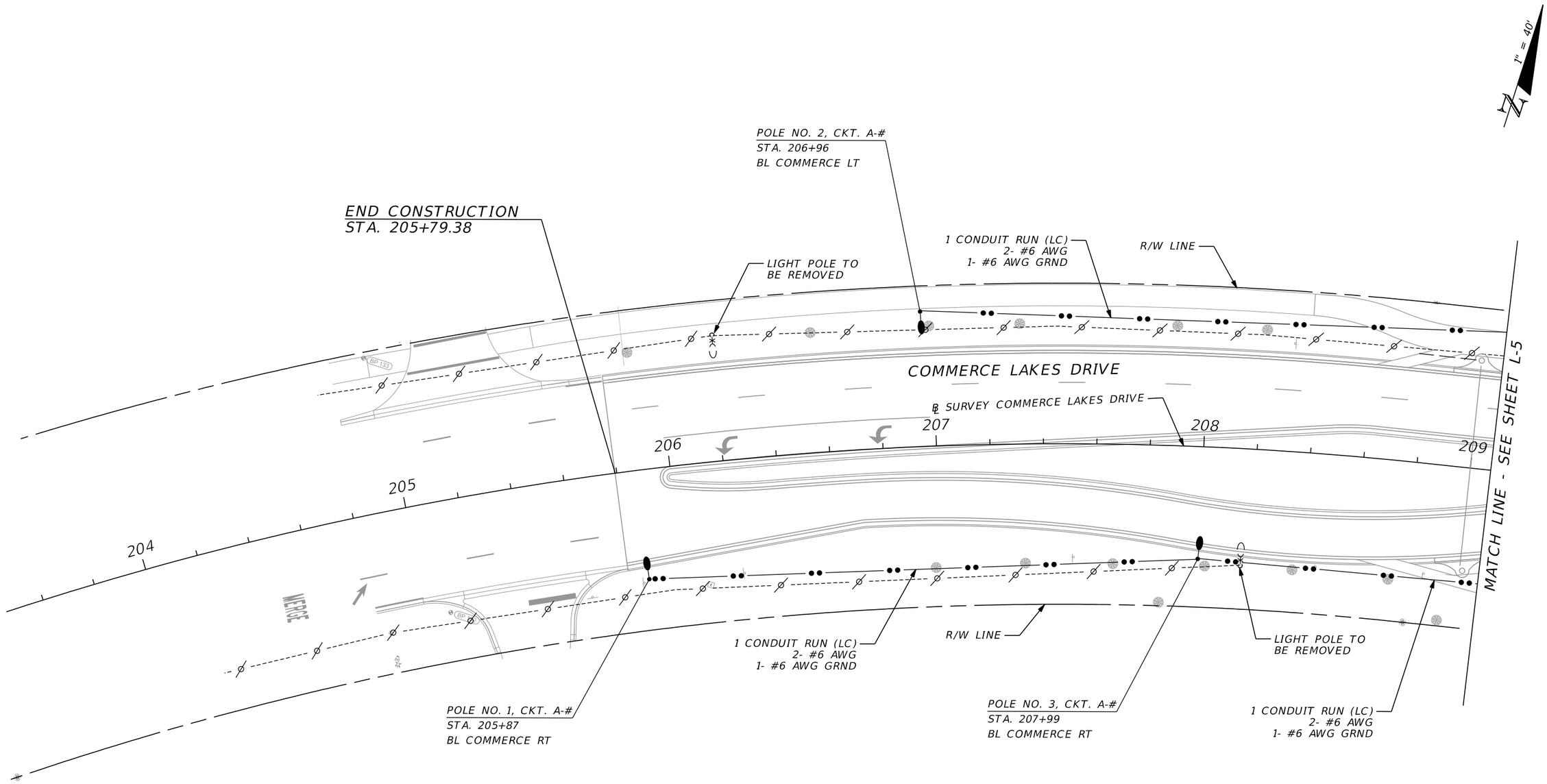
DAVID J. ALLEN, PE
P.E. NO.: 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FL 33578
CERTIFICATE OF AUTHORIZATION: 29915

Lee County Southwest Florida
DEPARTMENT OF TRANSPORTATION

GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LIGHTING PLAN (2)

COUNTY NO.	SHT. NO.
160311	L-6



REVISIONS			
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DAVID J. ALLEN, PE
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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LIGHTING PLAN (3)

COUNTY NO.	SHT. NO.
160311	L-7

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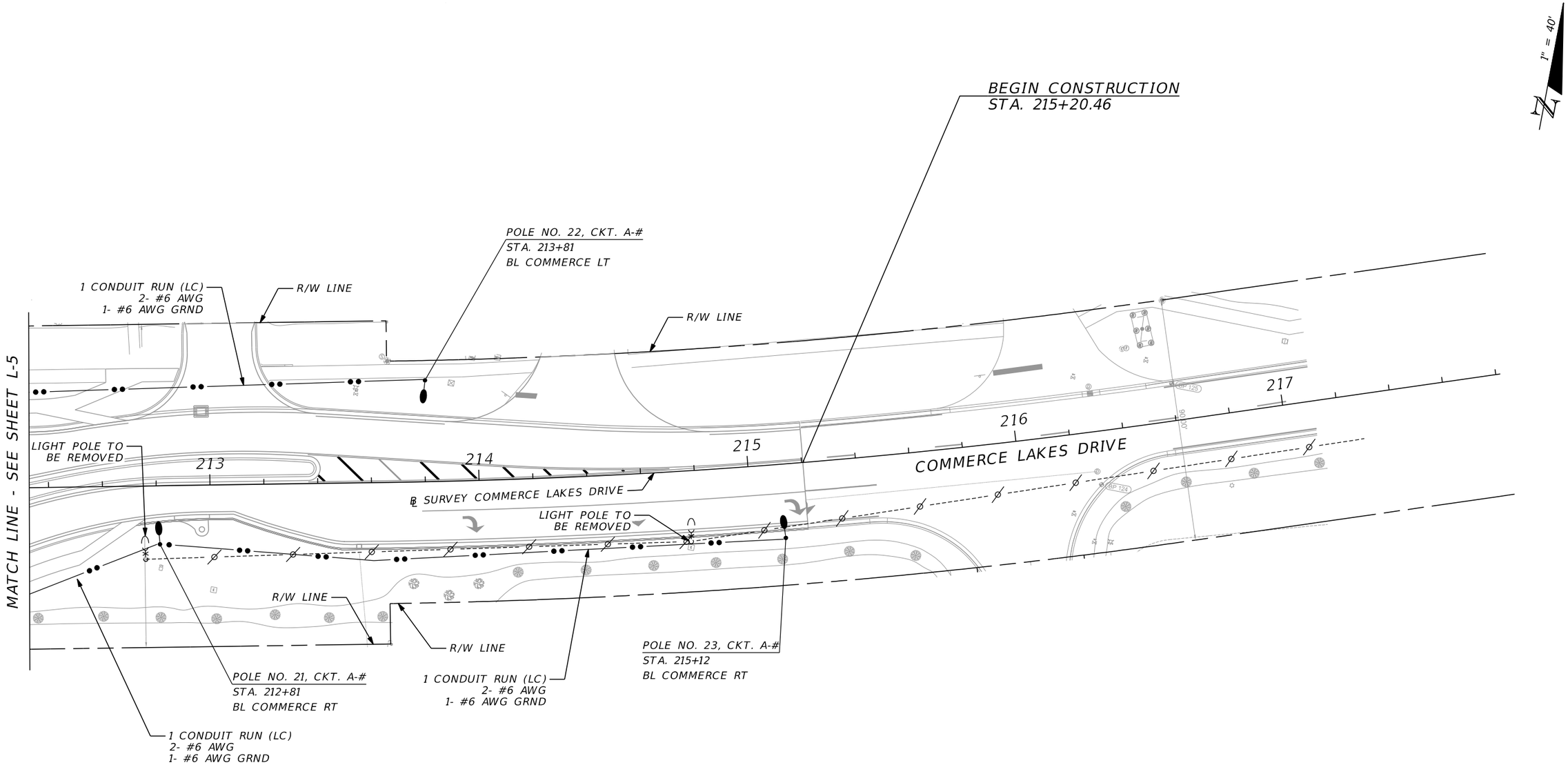

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE
INTERSECTION CONTROL (ROUNDABOUT)

LIGHTING PLAN (4)

COUNTY NO.	SHT. NO.
160311	L-8

PANEL "A" SCHEDULE

Panel ID: _____ Main Breaker: 100 A

Location: _____ Voltage: 240/480 V

Mounting: Surface Single Phase, 3-wire

	Circuit Description	Load (VA)	Breaker	Pole	Bus	Pole	Breaker	Load (VA)	Circuit Description	
1	A-1				A				A-3	2
3	↓				B				↓	4
5	A-2				A				A-4	6
7	↓				B				↓	8
9					A					10
11					B					12
13					A					14
15					B					16
17					A					18
19					B					20
21					A					22
23					B					24

NOTES

1. SAFETY SWITCH - 100 AMP F/A 100 AMP

TOTAL DEMAND VA
TOTAL DEMAND AMPS AMPS

NO. OF POLES 23

TO BE COMPLETED IN NEXT SUBMITTAL

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GATEWAY BOULEVARD AT COMMERCE LAKES DRIVE INTERSECTION CONTROL (ROUNDABOUT)

SERVICE POINT DETAILS

COUNTY NO. 160311

SHT. NO. L-9