


STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CONTRACT PLANS

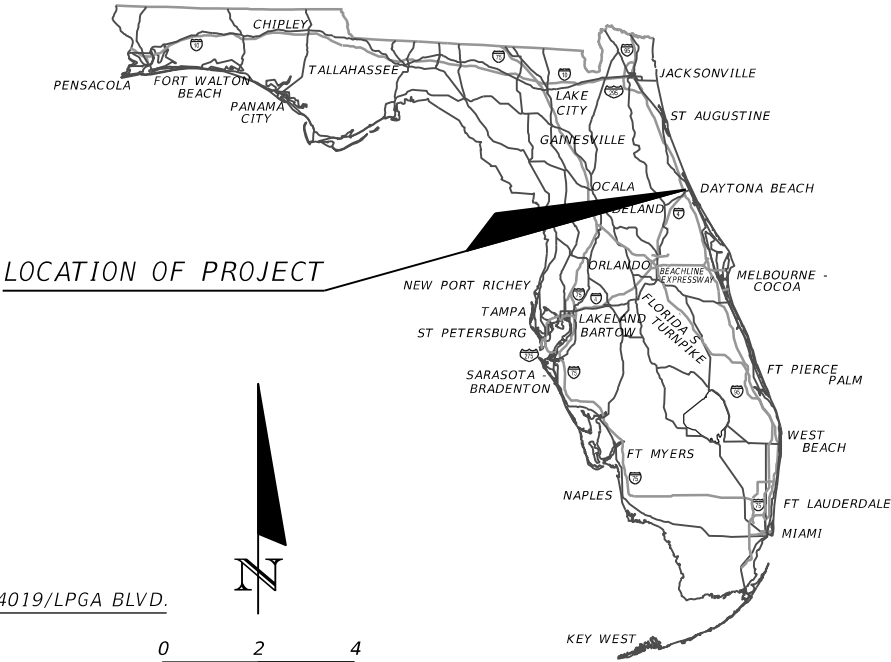
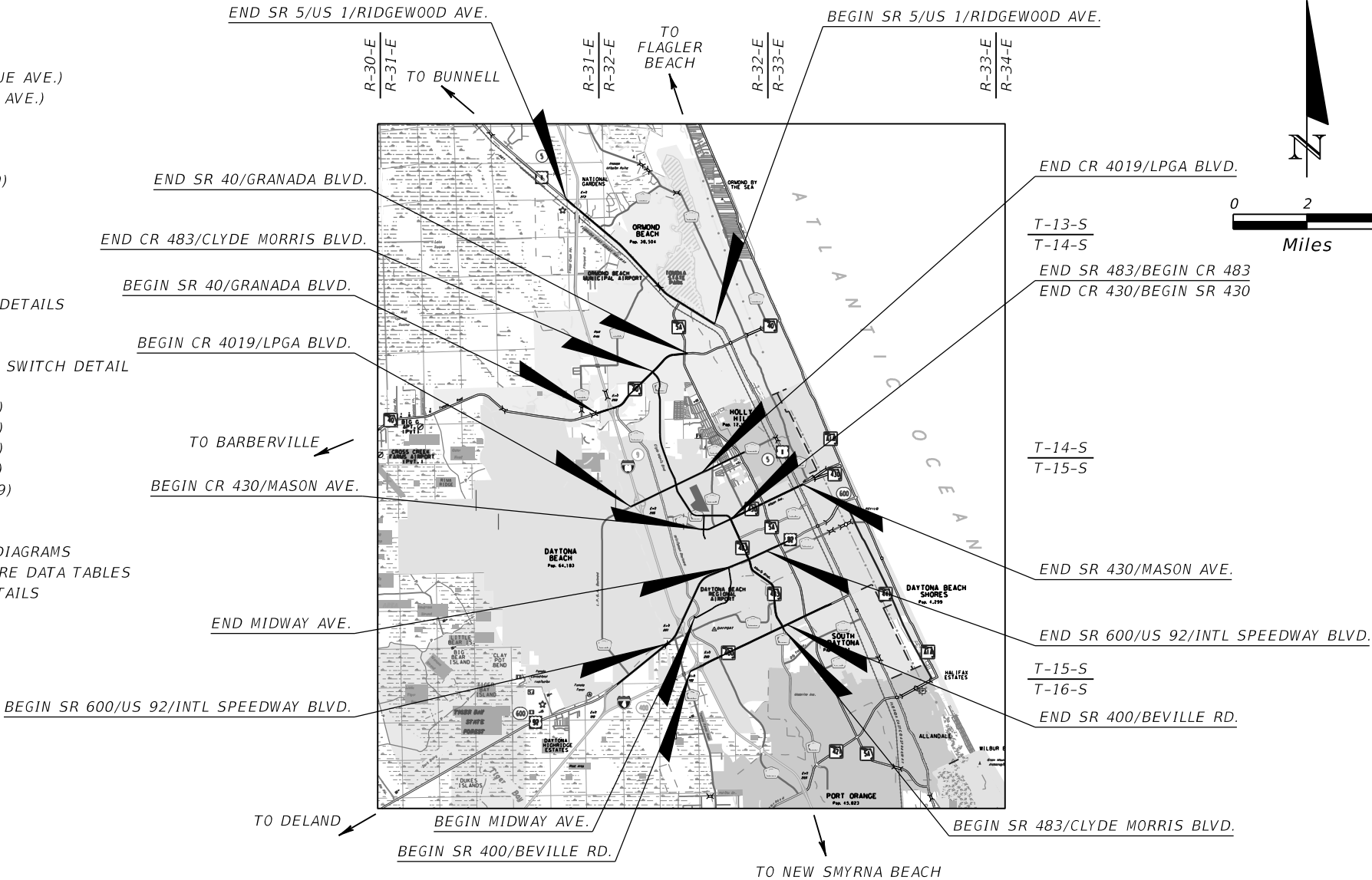
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FINANCIAL PROJECT ID 436325-1-52-01

VOLUSIA COUNTY (79000)

STATE ROAD NO. 5, 40, 400, 430, 483, 600
COUNTY ROAD NO. 430, 483, 4019
MIDWAY AVE., BELLEVUE AVE.



ITS PLANS
ENGINEER OF RECORD:

ROLANDO RAMIREZ, P.E.
P.E. NO.: 60918
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
VENDOR NO.: F-59-1685550
CERTIFICATE OF AUTHORIZATION NO.: 2294

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2016-17 Design Standards eBook (DSeB)
and applicable Design Standards Revisions (DSRs) at the following website:
<http://www.fdot.gov/roadway/DS/18/STDs.shtm>



APPLICABLE DSRs:

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2017 Standard Specifications
for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

REVISIONS:

FINANCIAL PROJECT ID 436325-1-52-01

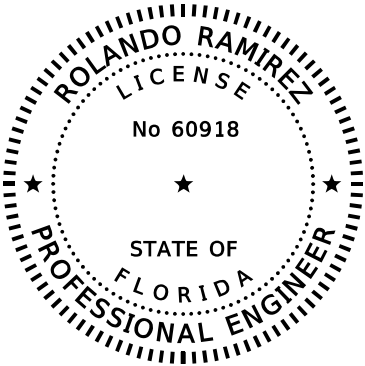
-  ITS Sheets: IT-1, IT-2A, IT-89 - IT-91, IT-95 (Revised 03-08-18)
 ITS Sheets: IT-1, IT-2B, IT-5 - IT-9, IT-10A, IT-25, IT-33, IT-39,
IT-43 - IT-44, IT-46 - IT-47, IT-52, IT-55, IT-84, IT-86 - IT-87,
IT-89 - IT-94, IT-96 - IT-97 (Revised 06-11-18)

KEY SHEET REVISIONS	
DATE	DESCRIPTION
03-08-18	ADDED SHEET IT-2A
06-11-18	ADDED SHEET IT-2B

FDOT PROJECT MANAGER:

RON MILLER

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
E5Y95	17	IT-1



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT
ARE NOT CONSIDERED SIGNED AND
SEALED. THE SIGNATURE MUST BE
VERIFIED ON THE ELECTRONIC
DOCUMENTS.
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT
SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION 2294
ROLANDO RAMIREZ, P.E. #60918

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

ITS PLANS

SHEET NO.	SHEET DESCRIPTION
IT-1	KEY SHEET
IT-2B	SIGNATURE SHEET
IT-5 - IT-9	TABULATION OF QUANTITIES
IT-10A	TABULATION OF QUANTITIES
IT-25	ITS PLAN SHEETS (SR 400)
IT-33	ITS PLAN SHEETS (SR 600)
IT-39	ITS PLAN SHEETS (SR 600)
IT-43	ITS PLAN SHEETS (SR 600)
IT-44	ITS PLAN SHEETS (SR 430)
IT-46	ITS PLAN SHEETS (SR 430)
IT-47	ITS PLAN SHEETS (CR 483)
IT-52	ITS PLAN SHEETS (CR 4019)
IT-55	ITS PLAN SHEETS (CR 4019)
IT-84	LOGICAL NETWORK DIAGRAM
IT-86	SPLICING DIAGRAM (SR 400)
IT-87	SPLICING DIAGRAM (SR 600)
IT-89 - IT-91	SPLICING DIAGRAM (SR 600)
IT-92 - IT-93	SPLICING DIAGRAM (SR 430)
IT-94	SPLICING DIAGRAM (CR 483)
IT-96 - IT-97	SPLICING DIAGRAM (CR 4019)

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	△ ADDED SHEET				VARIES	VOLUSIA	436325-1-52-01		IT-2B

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		PLAN		FINAL	
			IT-25		IT-26		IT-26A		IT-27		IT-28		IT-29		IT-30									
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	79						1105		1200		751		946		4081							
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	391						105		125		665		1135		2421							
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	40						30						20		90							
633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF	391						1190		1375		1516		1396		5868							
633-1-410	FIBER OPTIC CABLE, RELOCATE, OVERHEAD	LF																						
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	2	Δ													2	Δ						
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA																						
633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA	1														1							
633-3-13	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED CONNECTOR ASSEMBLY	EA																			Δ			
633-3-15	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED PATCH PANEL	EA	1						1						1		3							
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, FIELD TERMINATED PATCH PANEL	EA																						
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	1														1							
633-3-52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	EA																			Δ			
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA	2						3						3		8							
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA	1						2		1		2		1		7							
635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA																						
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1						1						1		3							
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	334						425						870		1629							
639-3-11	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL, POLE MOUNT	EA	1						1						1		3							
639-6-1	ELECTRICAL POWER SERVICE-TRANSFORMER FURNISH & INSTALLED	EA																						
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	2						2						2		6							
660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA				1											1							
660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA				1											1							
676-1-113	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL CABINET WITHOUT CONTROLLER, NEMA TYPE 3	EA	1						1						1		3							
676-2-600	ITS CABINET, REMOVE	EA						1									1							
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH & INSTALL, LESS THAN 10"W x 13"H x 11"D	EA				1											1							
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1						1						1		3							
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA				1											1							
695-5-1	TRAFFIC MONITORING SITE SOLAR POWER UNIT, FURNISH & INSTALL	EA				1											1							
700-1-12	SINGLE POST SIGN, FURNISH & INSTALL GROUND MOUNT, 12-20 SF	AS				1			1								2							
700-8-135	FRONT ACCESS DYNAMIC MESSAGE SIGN, FURNISH & INSTALL-WITH UPS, FULL COLOR, 51-100 SF	EA																						
700-8-600	FRONT ACCESS DYNAMIC MESSAGE SIGN, REMOVE	EA						4									4							
700-10-122	DMS SUPPORT STRUCTURE, 21-30 FT	EA																						
700-10-600	DMS SUPPORT STRUCTURE, REMOVE	EA						4									4							
700-11-391	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT-AC POWERED, BLANK OUT SIGN, 12-20 SF	AS	1						1						1		3							

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
06-11-18	△ UPDATED QUANTITIES				VARIES	VOLUSIA	436325-1-52-01	IT-5
TABULATION OF QUANTITIES								

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

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET			
			IT-31		IT-32		IT-33		IT-34		IT-35		IT-36		IT-37					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY															6			
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF			121				30		765		180		542		1638			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			133		106		365		1051		875				2530			
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF			25				15				20		5		65			
633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF					206		430		721		637				1994			
633-1-410	FIBER OPTIC CABLE, RELOCATE, OVERHEAD	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			2		6				12						20	△		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA			1		1				1						3			
633-3-13	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED CONNECTOR ASSEMBLY	EA					2										2			△
633-3-15	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED PATCH PANEL	EA							1				1				2			
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, FIELD TERMINATED PATCH PANEL	EA									1						1			
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA			1		2										3			
633-3-52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	EA					1										1			△
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA			2				2		3		1		2		10			
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA							1		1		2				4			
635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA																		
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS							1		1						2			
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF			309				300		1250		835		547		3241			
639-3-11	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL, POLE MOUNT	EA							1				1				2			
639-6-1	ELECTRICAL POWER SERVICE-TRANSFORMER FURNISH & INSTALLED	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA							1		1		1				3			
660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1						1						1		3			
660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1						1						1		3			
676-1-113	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL CABINET WITHOUT CONTROLLER, NEMA TYPE 3	EA											1				1			
676-2-600	ITS CABINET, REMOVE	EA																		
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH & INSTALL, LESS THAN 10"W x 13"H x 11"D	EA	1												1		2			
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA			1				1		1		1				4			
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA	1												1		2			
695-5-1	TRAFFIC MONITORING SITE SOLAR POWER UNIT, FURNISH & INSTALL	EA	1												1		2			
700-1-12	SINGLE POST SIGN, FURNISH & INSTALL GROUND MOUNT, 12-20 SF	AS	1												1		2			
700-8-135	FRONT ACCESS DYNAMIC MESSAGE SIGN, FURNISH & INSTALL-WITH UPS, FULL COLOR, 51-100 SF	EA							1								1			
700-8-600	FRONT ACCESS DYNAMIC MESSAGE SIGN, REMOVE	EA			3						2				1		6			
700-10-122	DMS SUPPORT STRUCTURE, 21-30 FT	EA							1								1			
700-10-600	DMS SUPPORT STRUCTURE, REMOVE	EA			3						2				1		6			
700-11-391	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT-AC POWERED, BLANK OUT SIGN, 12-20 SF	AS			1						3		2		1		7			
														</						

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>TABULATION OF QUANTITIES</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-6
06-11-18	△ UPDATED QUANTITIES				VARIES	VOLUSIA	436325-1-52-01		

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

TABULATION OF QUANTITIES

[illegible]

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
06-11-18	Δ UPDATED QUANTITIES				VARIES	VOLUSIA	436325-1-52-01	
TABULATION OF QUANTITIES								

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET			
			IT-44		IT-45		IT-46		IT-47		IT-48		IT-49		IT-50					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	6														6			
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	149					68		458						212		508		1419
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	896				24	922		502						169		572		3526
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	80				10			20						15				150
633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF	27					153		157						536		757		1630
633-1-410	FIBER OPTIC CABLE, RELOCATE, OVERHEAD	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	6					4		2							24		36	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA																		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA	1														2		3	
633-3-13	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED CONNECTOR ASSEMBLY	EA																		
633-3-15	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED PATCH PANEL	EA	1					1		1						1		1		5
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, FIELD TERMINATED PATCH PANEL	EA															2			2
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	2					1		1										4
633-3-52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	EA	1					1		1										3
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA	3				3			2						3		3		19
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA						1								3		1		5
635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA								1										1
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1					1		1								1		4
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	1153				956			835						386		1243		5727
639-3-11	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL, POLE MOUNT	EA						1		1						1		1		4
639-6-1	ELECTRICAL POWER SERVICE-TRANSFORMER FURNISH & INSTALLED	EA														1		1		2
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	2					2		2								1		7
660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1					2		2						1				6
660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1					2		2						1				6
676-1-113	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL CABINET WITHOUT CONTROLLER, NEMA TYPE 3	EA	1					1		1										3
676-2-600	ITS CABINET, REMOVE	EA																		
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH & INSTALL, LESS THAN 10"W x 13"H x 11"D	EA	1					2		2										5
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1					1		1						1		1		5
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA	1					2		2										5
695-5-1	TRAFFIC MONITORING SITE SOLAR POWER UNIT, FURNISH & INSTALL	EA	1					2		2										5
700-1-12	SINGLE POST SIGN, FURNISH & INSTALL GROUND MOUNT, 12-20 SF	AS	2				1	2		2										7
700-8-135	FRONT ACCESS DYNAMIC MESSAGE SIGN, FURNISH & INSTALL-WITH UPS, FULL COLOR, 51-100 SF	EA														1				1
700-8-600	FRONT ACCESS DYNAMIC MESSAGE SIGN, REMOVE	EA																2		2
700-10-122	DMS SUPPORT STRUCTURE, 21-30 FT	EA														1				1
700-10-600	DMS SUPPORT STRUCTURE, REMOVE	EA																3		3
700-11-391	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT-AC POWERED, BLANK OUT SIGN, 12-20 SF	AS	4				1	3		3						3		3		14

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>TABULATION OF QUANTITIES</i> SHEET NO. IT-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
06-11-18	△ UPDATED QUANTITIES				VARIES	VOLUSIA	436325-1-52-01	

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

TABULATION OF QUANTITIES


PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		PLAN		FINAL	
			IT-51		IT-52		IT-53		IT-54		IT-55		IT-56		IT-56A							
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																				
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF			81				10		133						224					
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			618				852		97						1567					
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF			15				10		20						45					
633-1-121	FIBER OPTIC CABLE, FURNISH & INSTALL, UNDERGROUND, 2-12 FIBERS	LF			30						28						58					
633-1-410	FIBER OPTIC CABLE, RELOCATE, OVERHEAD	LF									100						100					
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA			12						4						16					
633-3-11	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE ENCLOSURE	EA									1	△					1					
633-3-12	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, SPLICE TRAY	EA			1															△		
633-3-13	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED CONNECTOR ASSEMBLY	EA									1											
633-3-15	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, PRETERMINATED PATCH PANEL	EA			1																	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, FURNISH & INSTALL, FIELD TERMINATED PATCH PANEL	EA			1							△					1	△		△		
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA																		△		
633-3-52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	EA																				
635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13" x 24" COVER SIZE	EA			3				3		3						11					
635-2-12	PULL & SPLICE BOX, FURNISH & INSTALL, 24" x 36" COVER SIZE	EA																				
635-2-13	PULL & SPLICE BOX, FURNISH & INSTALL, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA																				
639-1-122	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS			1						1						2					
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF			824				872		332						2028					
639-3-11	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL, POLE MOUNT	EA									1						1					
639-6-1	ELECTRICAL POWER SERVICE-TRANSFORMER FURNISH & INSTALLED	EA			1												1					
641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA			2						2						4					
660-6-121	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1				1				1		1				4					
660-6-122	VEHICLE DETECTION SYSTEM-AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1				1				1		1				4					
676-1-113	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL CABINET WITHOUT CONTROLLER, NEMA TYPE 3	EA			1						1						2					
676-2-600	ITS CABINET, REMOVE	EA																				
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH & INSTALL, LESS THAN 10"W x 13"H x 11"D	EA	1				1				1		1				4					
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA			1						1						2					
684-6-11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA	1				1				1		1				4					
695-5-1	TRAFFIC MONITORING SITE SOLAR POWER UNIT, FURNISH & INSTALL	EA	1				1				1		1				4					
700-1-12	SINGLE POST SIGN, FURNISH & INSTALL GROUND MOUNT, 12-20 SF	AS	1				1		1		1		1				5					
700-8-135	FRONT ACCESS DYNAMIC MESSAGE SIGN, FURNISH & INSTALL-WITH UPS, FULL COLOR, 51-100 SF	EA																				
700-8-600	FRONT ACCESS DYNAMIC MESSAGE SIGN, REMOVE	EA													1		1					
700-10-122	DMS SUPPORT STRUCTURE, 21-30 FT	EA																				
700-10-600	DMS SUPPORT STRUCTURE, REMOVE	EA	1												1		2					
700-11-391	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT-AC POWERED, BLANK OUT SIGN, 12-20 SF	AS			4				1		2						7					

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>TABULATION OF QUANTITIES</i> <div style="text-align: right;">IT-9</div>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	△ UPDATED QUANTITIES				VARIES	VOLUSIA	436325-1-52-01		

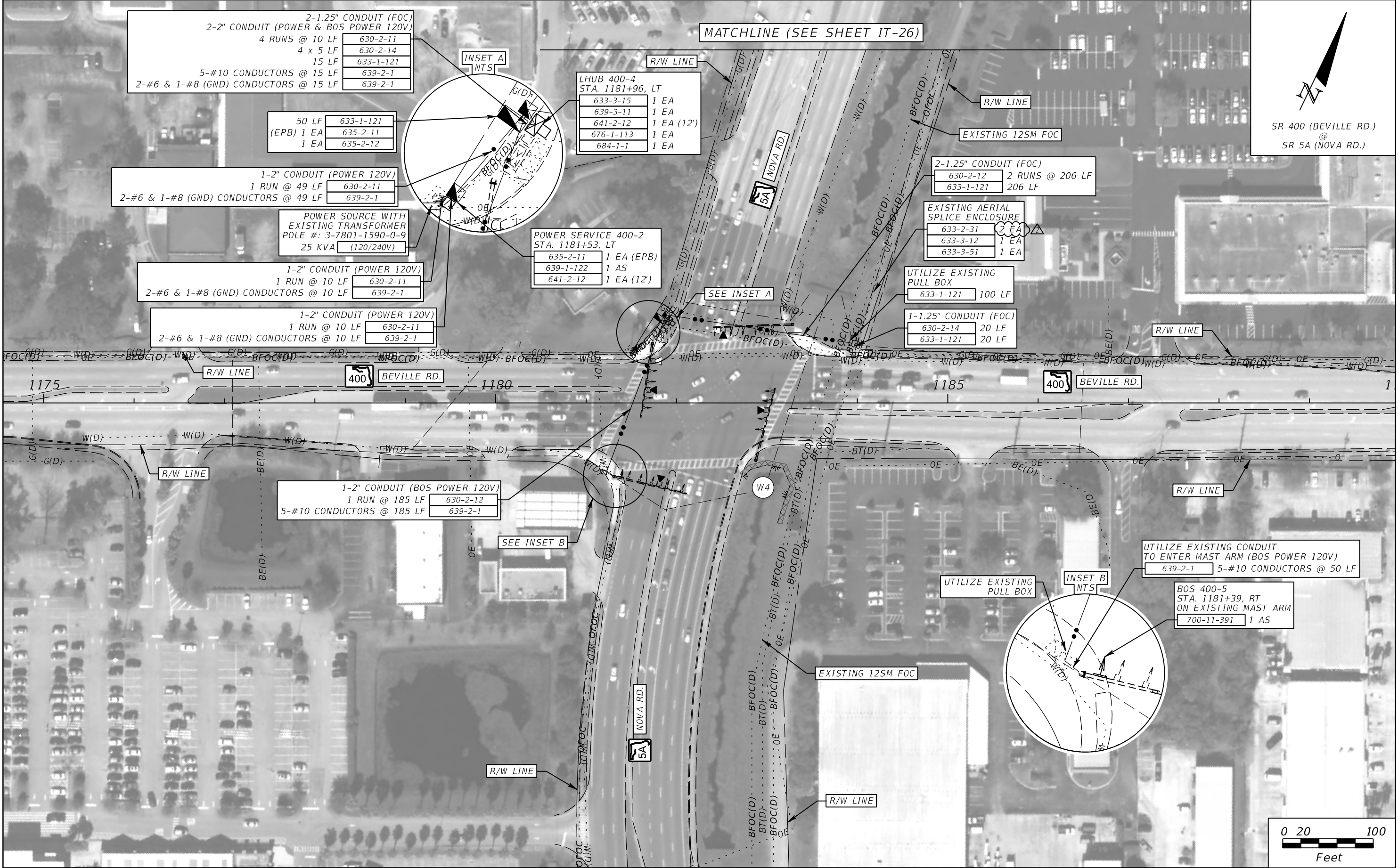
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

TABULATION OF QUANTITIES

[illegible]

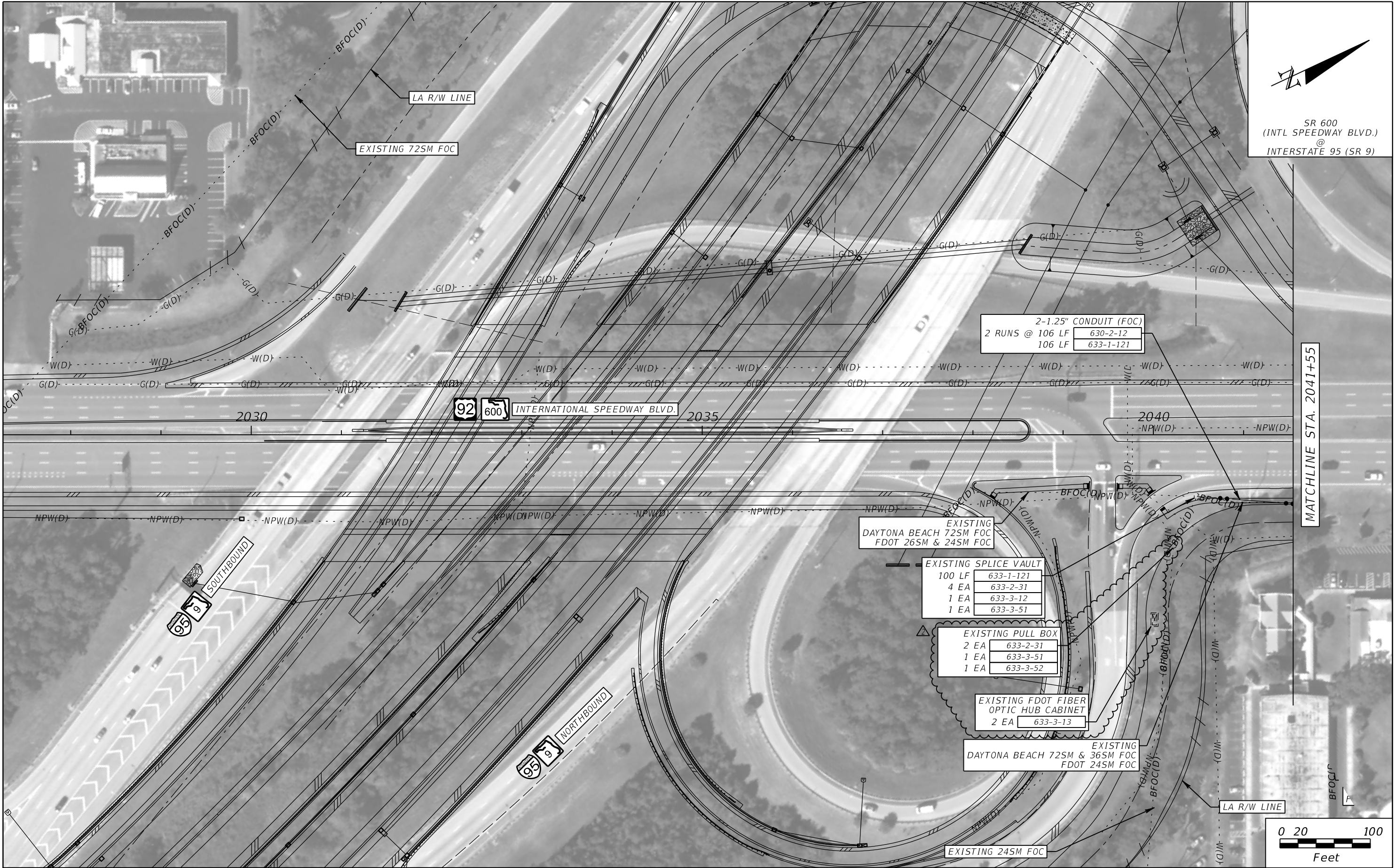
REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. IT-10A
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
06-11-18	 UPDATED QUANTITIES				VARIES	VOLUSIA	436325-1-52-01	

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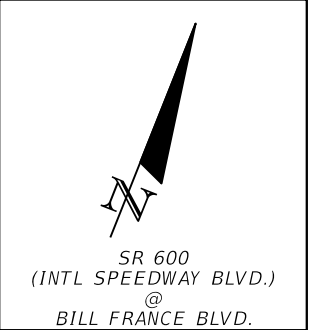
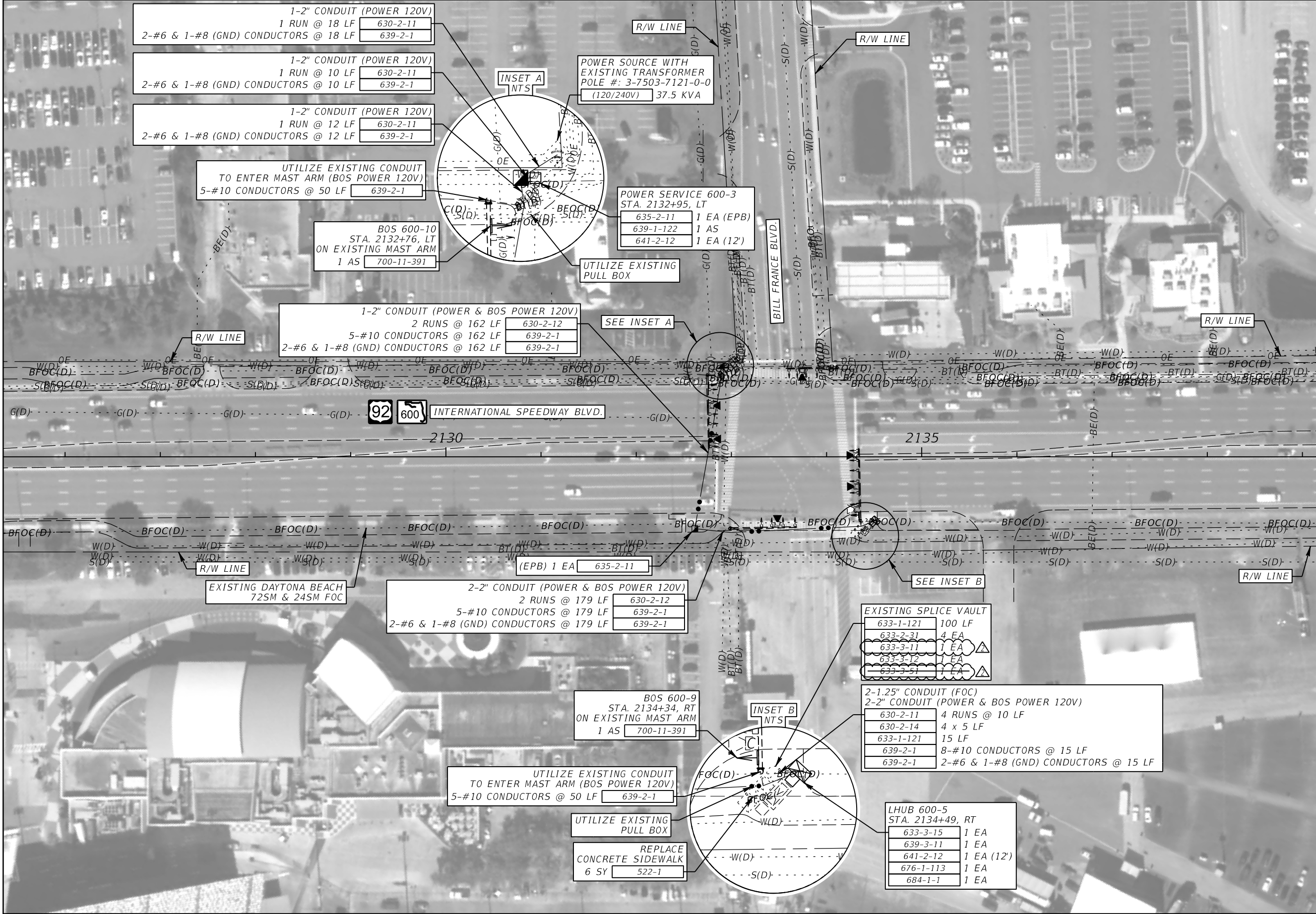


REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEETS (SR 400)	SHEET NO. IT-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	UPDATED NUMBER OF SPLICES				SR 400	VOLUSIA	436325-1-52-01		

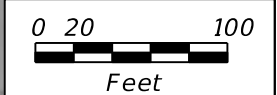
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REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEETS (SR 600)	SHEET NO. IT-33
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	△ UPDATED NUMBER OF SPLICES				SR 600	VOLUSIA	436325-1-52-01		



MATCHLINE STA. 2139+15



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
06-11-18	ADDED SPLICE ENCLOSURE TO EXISTING SPLICE VAULT		

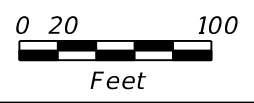
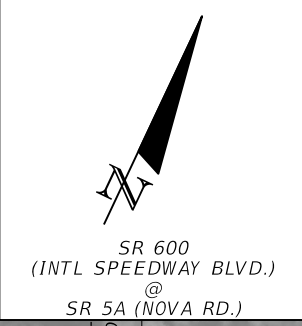
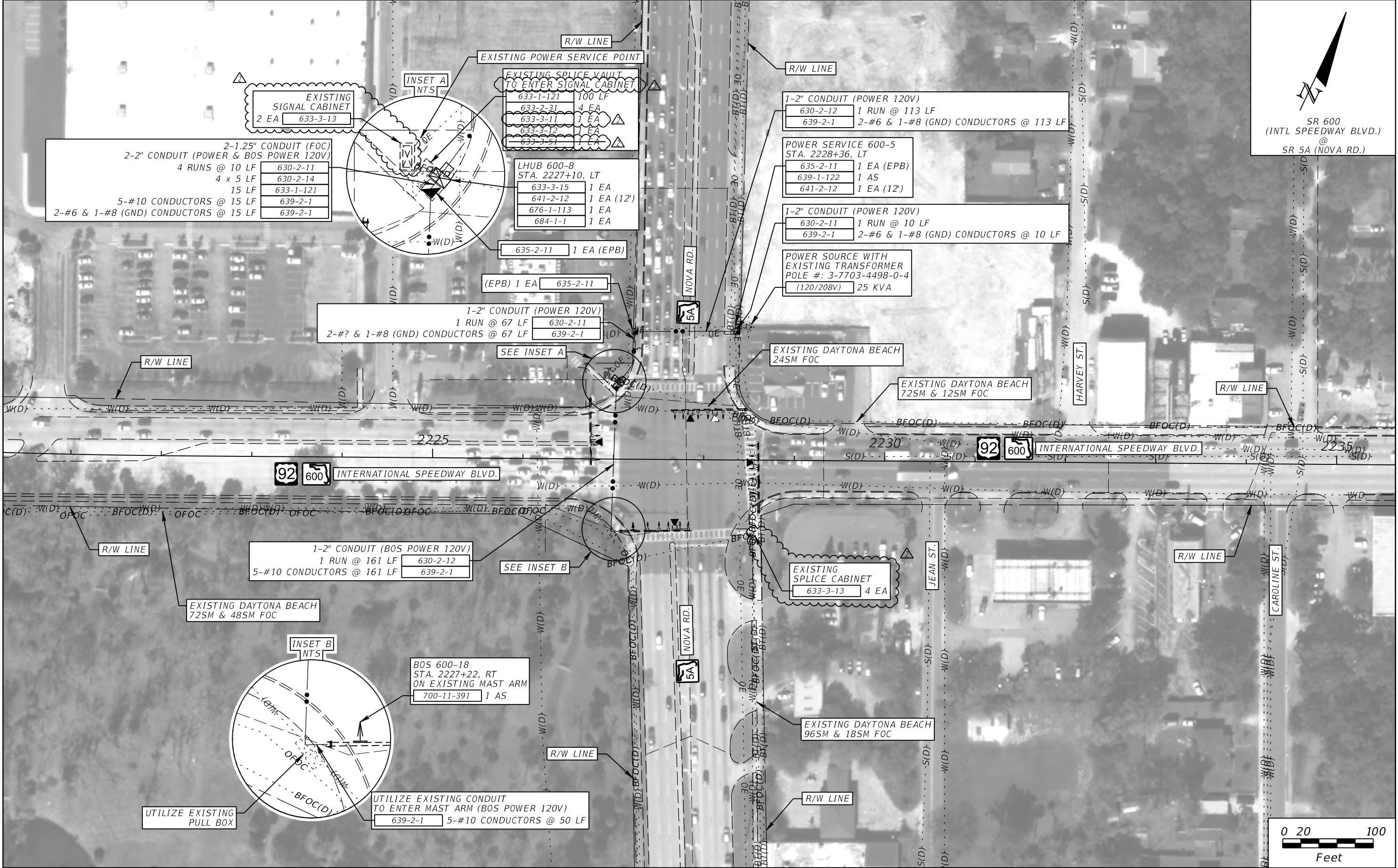
ROLANDO RAMIREZ, P.E.
P.E. NO.: 60918
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION: 2294

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 600	VOLUSIA	436325-1-52-01

ITS PLAN SHEETS
(SR 600)

SHEET NO.
IT-39

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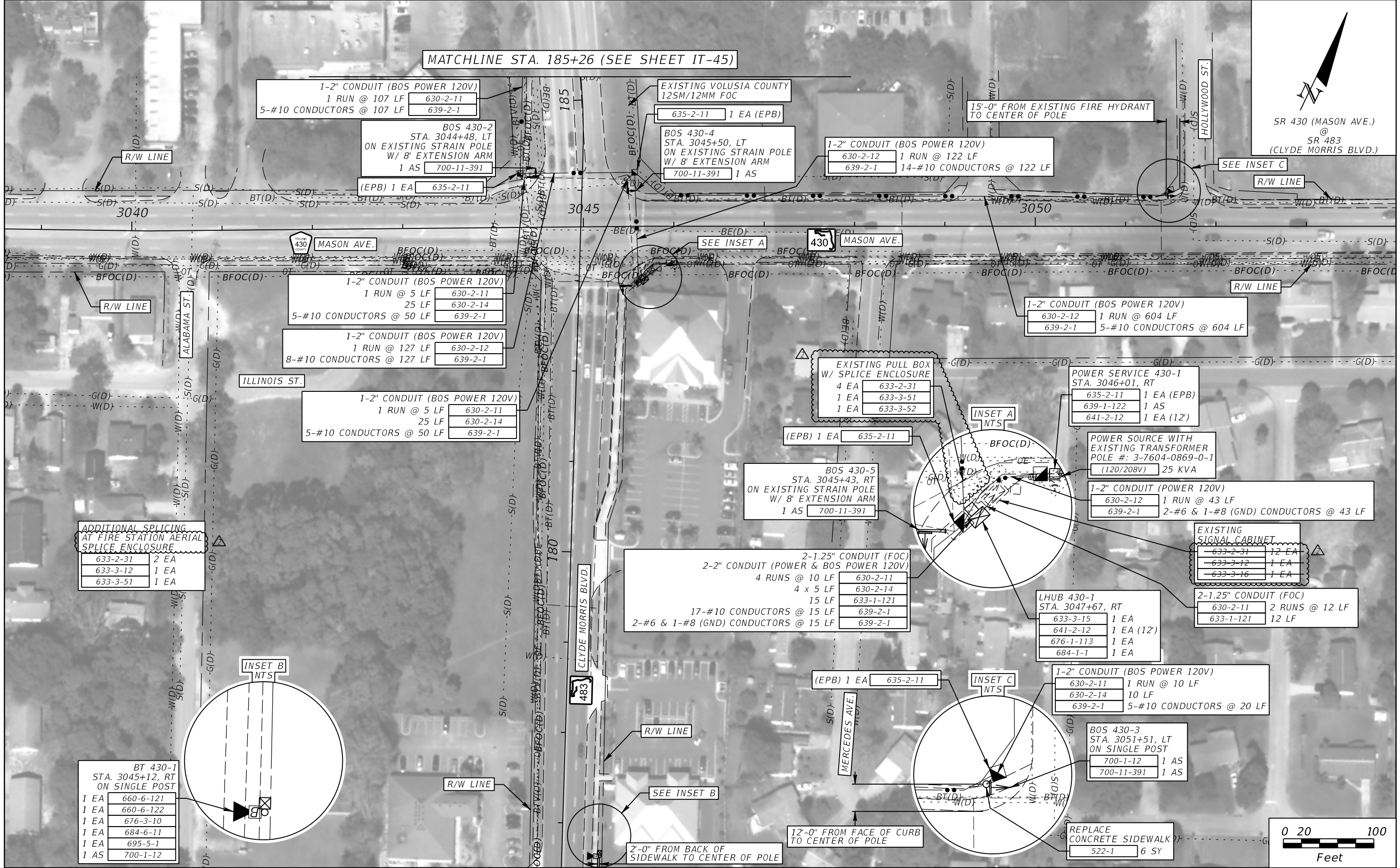
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
06-11-18	UPDATED SPlicing		

ROLANDO RAMIREZ, P.E.
P.E. NO.: 60918
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION: 2294

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 600	VOLUSIA	436325-1-52-01

ITS PLAN SHEETS (SR 600)	
SHEET NO. IT-43	

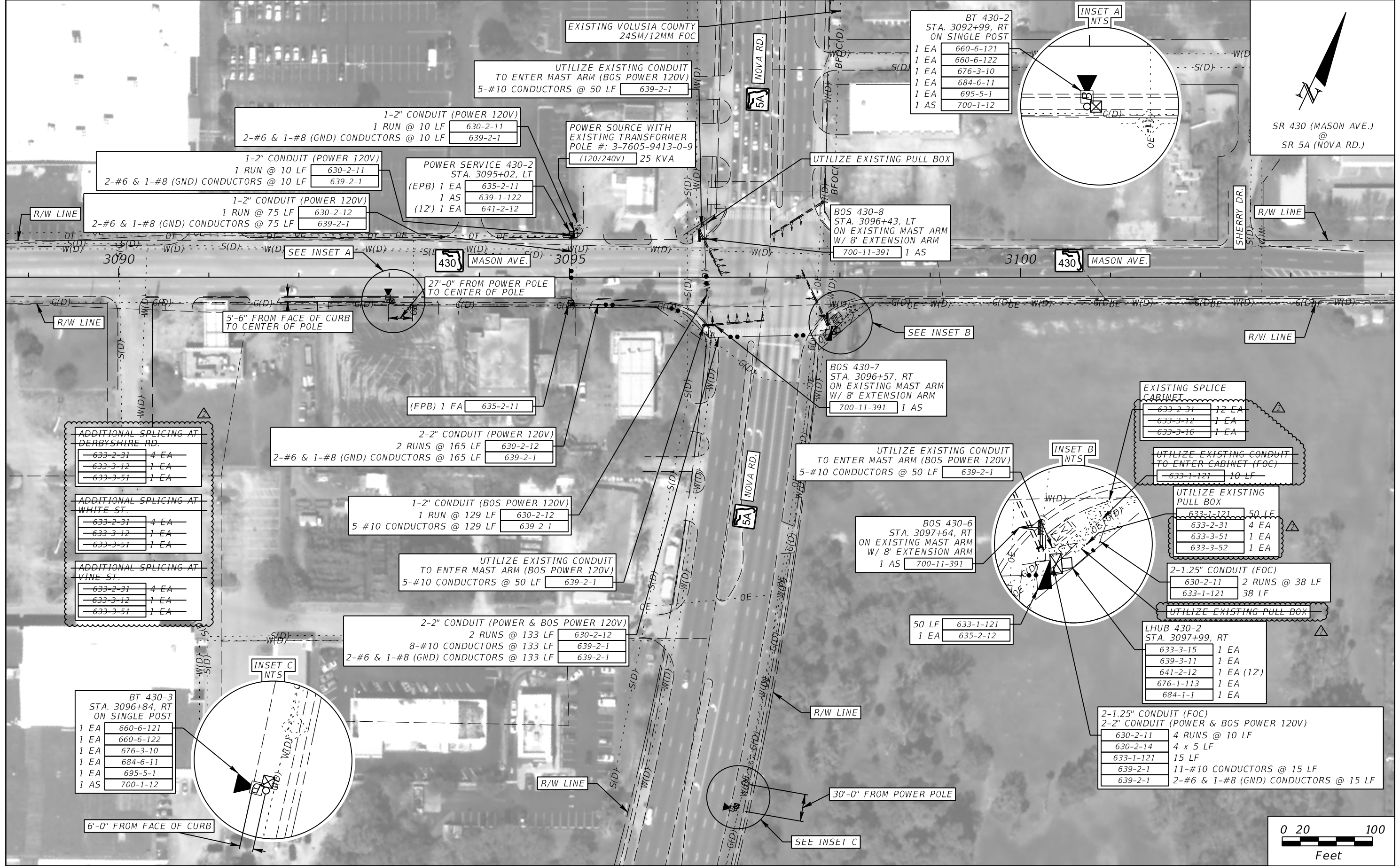
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



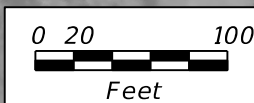
REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEETS (SR 430)	SHEET NO. IT-44
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	UPDATED SPlicing				SR 430	VOLUSIA	4363251-152-01		

6/11/2018 8:36:56 AM R:\PROJECT\DS ITS Event Mgmt - 4.2296.01\43632513201\nts\planit301.dgn

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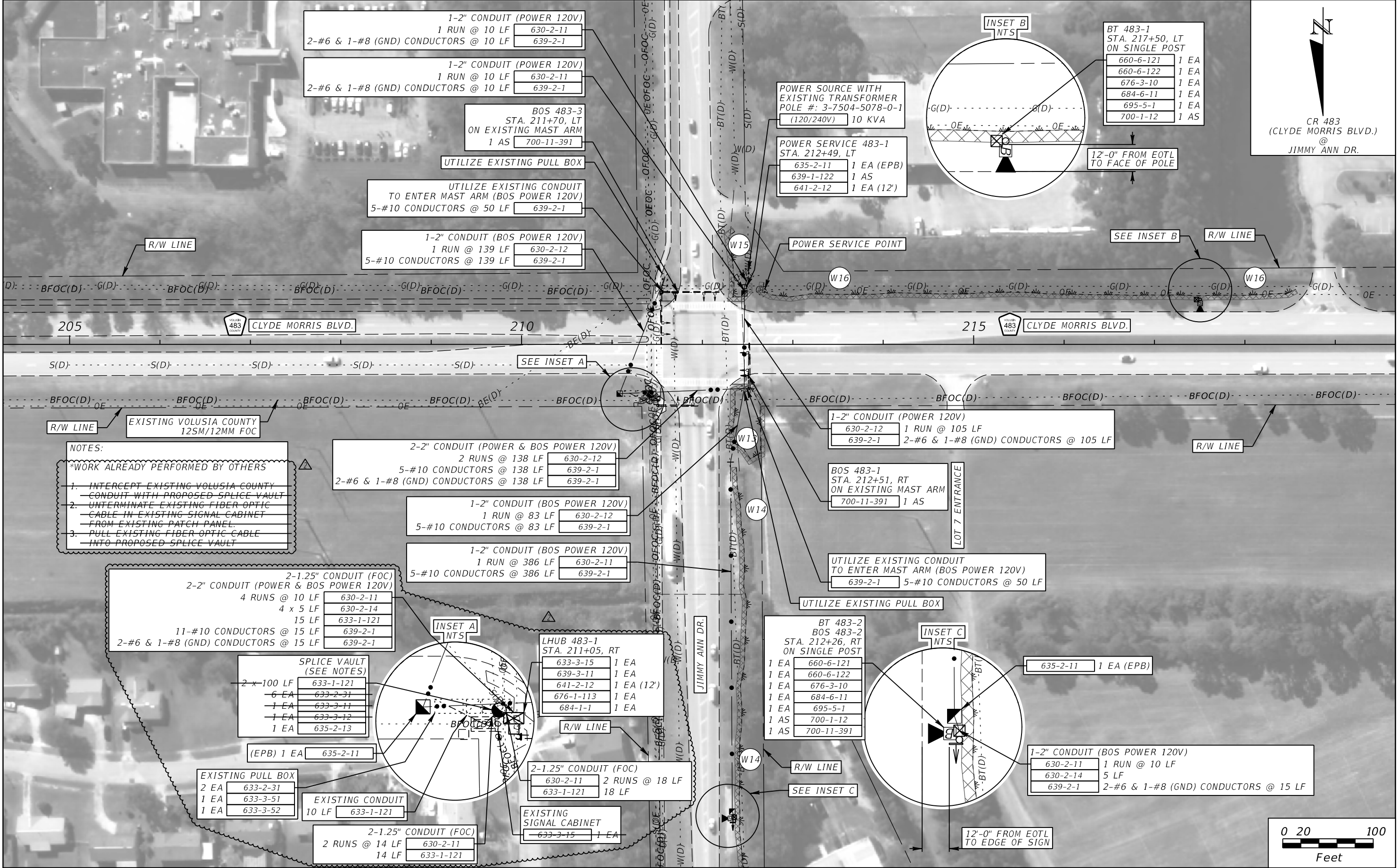


SR 430 (MASON AVE.)
@
SR 5A (NOVA RD.)



REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEETS (SR 430)	SHEET NO. IT-46
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	UPDATED SPlicing				SR 430	VOLUSIA	4363251-52-01		

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NOTES:
*WORK ALREADY PERFORMED BY OTHERS
1. INTERCEPT EXISTING VOLUSIA COUNTY CONDUIT WITH PROPOSED SPLICE VAULT
2. UNTERMINATE EXISTING FIBER OPTIC CABLE IN EXISTING SIGNAL CABINET FROM EXISTING PATCH PANEL
3. PULL EXISTING FIBER OPTIC CABLE INTO PROPOSED SPLICE VAULT

2-1.25" CONDUIT (FOC)
2-2" CONDUIT (POWER & BOS POWER 120V)
4 RUNS @ 10 LF 630-2-11
4 x 5 LF 630-2-14
15 LF 633-1-121
11-#10 CONDUCTORS @ 15 LF 639-2-1
2-#6 & 1-#8 (GND) CONDUCTORS @ 15 LF 639-2-1

SPLICE VAULT (SEE NOTES)
2 x 100 LF 633-1-121
6 EA 633-2-31
1 EA 633-3-11
1 EA 633-3-12
1 EA 635-2-13

EXISTING PULL BOX
2 EA 633-2-31
1 EA 633-3-51
1 EA 633-3-52

EXISTING CONDUIT
10 LF 633-1-121

2-1.25" CONDUIT (FOC)
2 RUNS @ 14 LF 630-2-11
14 LF 633-1-121

LHUB 483-1
STA. 211+05, RT
633-3-15 1 EA
639-3-11 1 EA
641-2-12 1 EA (12')
676-1-113 1 EA
684-1-1 1 EA

2-1.25" CONDUIT (FOC)
630-2-11 2 RUNS @ 18 LF
633-1-121 18 LF

EXISTING SIGNAL CABINET
633-3-15 1 EA

1-2" CONDUIT (POWER 120V)
630-2-12 1 RUN @ 105 LF
639-2-1 2-#6 & 1-#8 (GND) CONDUCTORS @ 105 LF

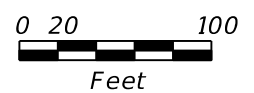
BOS 483-1
STA. 212+51, RT
ON EXISTING MAST ARM
700-11-391 1 AS

UTILIZE EXISTING CONDUIT TO ENTER MAST ARM (BOS POWER 120V)
639-2-1 5-#10 CONDUCTORS @ 50 LF

BT 483-2
BOS 483-2
STA. 212+26, RT
ON SINGLE POST
1 EA 660-6-121
1 EA 660-6-122
1 EA 676-3-10
1 EA 684-6-11
1 EA 695-5-1
1 AS 700-1-12
1 AS 700-11-391

635-2-11 1 EA (EPB)

1-2" CONDUIT (BOS POWER 120V)
630-2-11 1 RUN @ 10 LF
630-2-14 5 LF
639-2-1 2-#6 & 1-#8 (GND) CONDUCTORS @ 15 LF



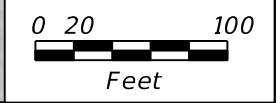
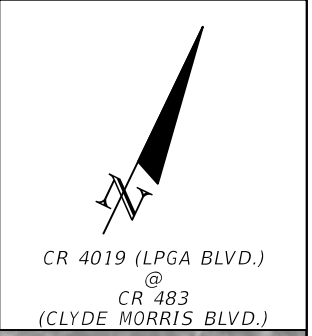
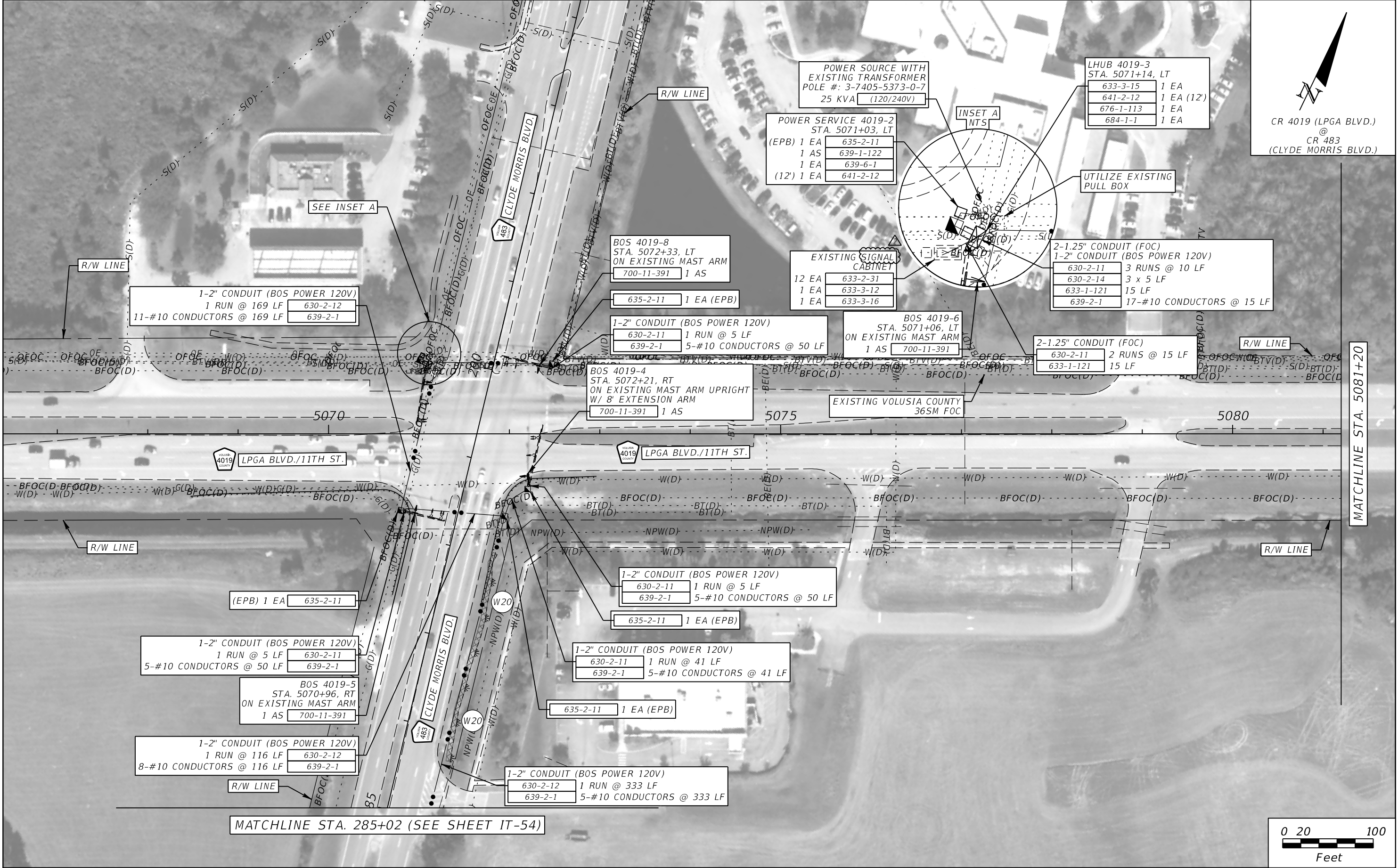
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
06-11-18	UPDATED SPlicing		

ROLANDO RAMIREZ, P.E.
P.E. NO.: 60918
METRIC ENGINEERING, INC.
615 CRESCENT EXECUTIVE CT, SUITE 524
LAKE MARY, FLORIDA 32746
TEL. (407) 644-1898
FAX. (407) 644-2376
CERTIFICATE OF AUTHORIZATION: 2294

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 483	VOLUSIA	4363251-152-01

ITS PLAN SHEETS (CR 483)		SHEET NO.
		IT-47

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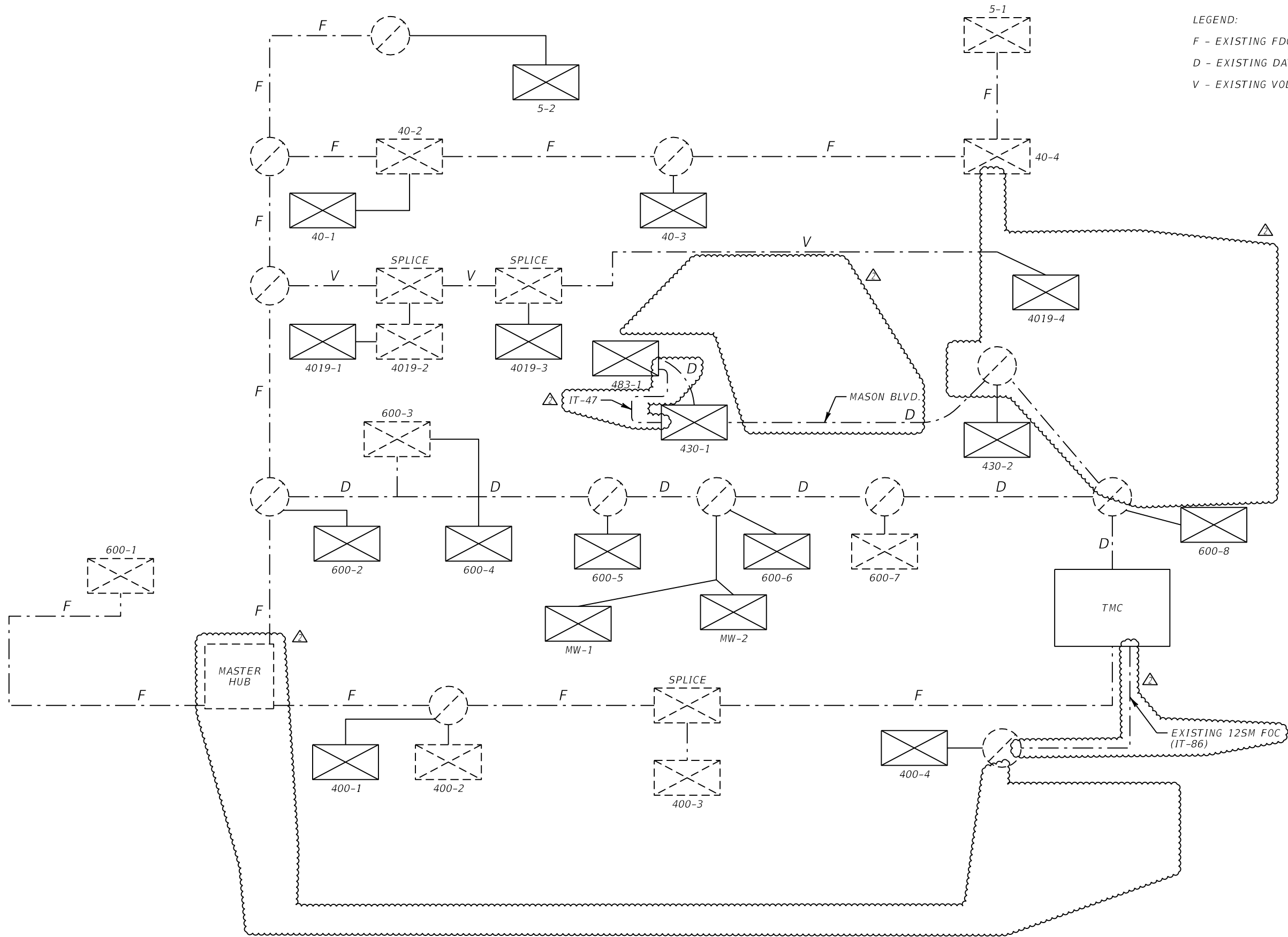
REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEETS (CR 4019)	SHEET NO. IT-52
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	UPDATED SPLICING				CR 4019	VOLUSIA	436325-1-52-01		

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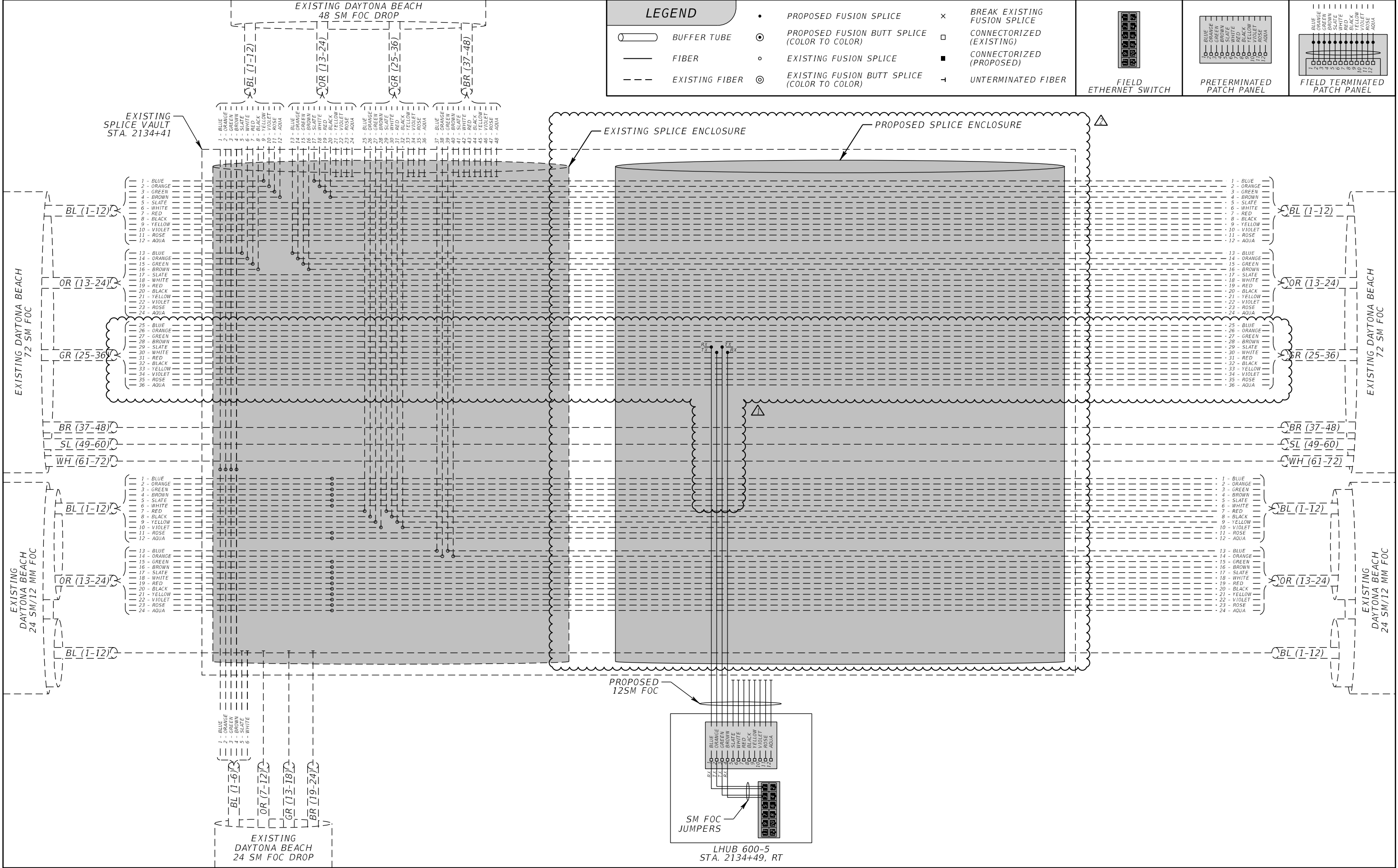
REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS PLAN SHEETS (CR 4019)		SHEET NO. IT-55
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
06-11-18	UPDATED SPLICING				CR 4019	VOLUSIA	436325-1-52-01			

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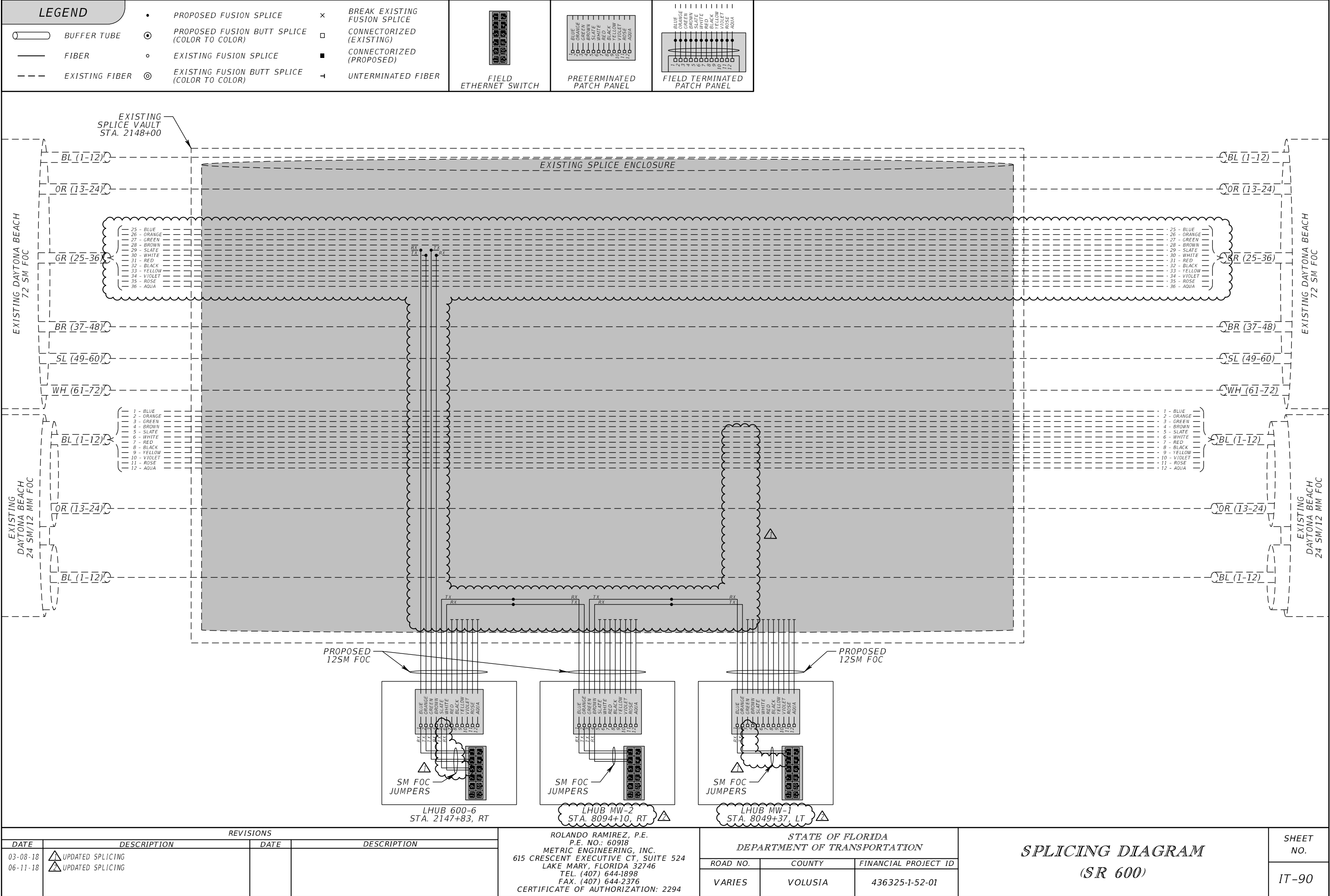
LEGEND:
F - EXISTING FDOT FIBER
D - EXISTING DAYTONA BEACH FIBER
V - EXISTING VOLUSIA COUNTY FIBER

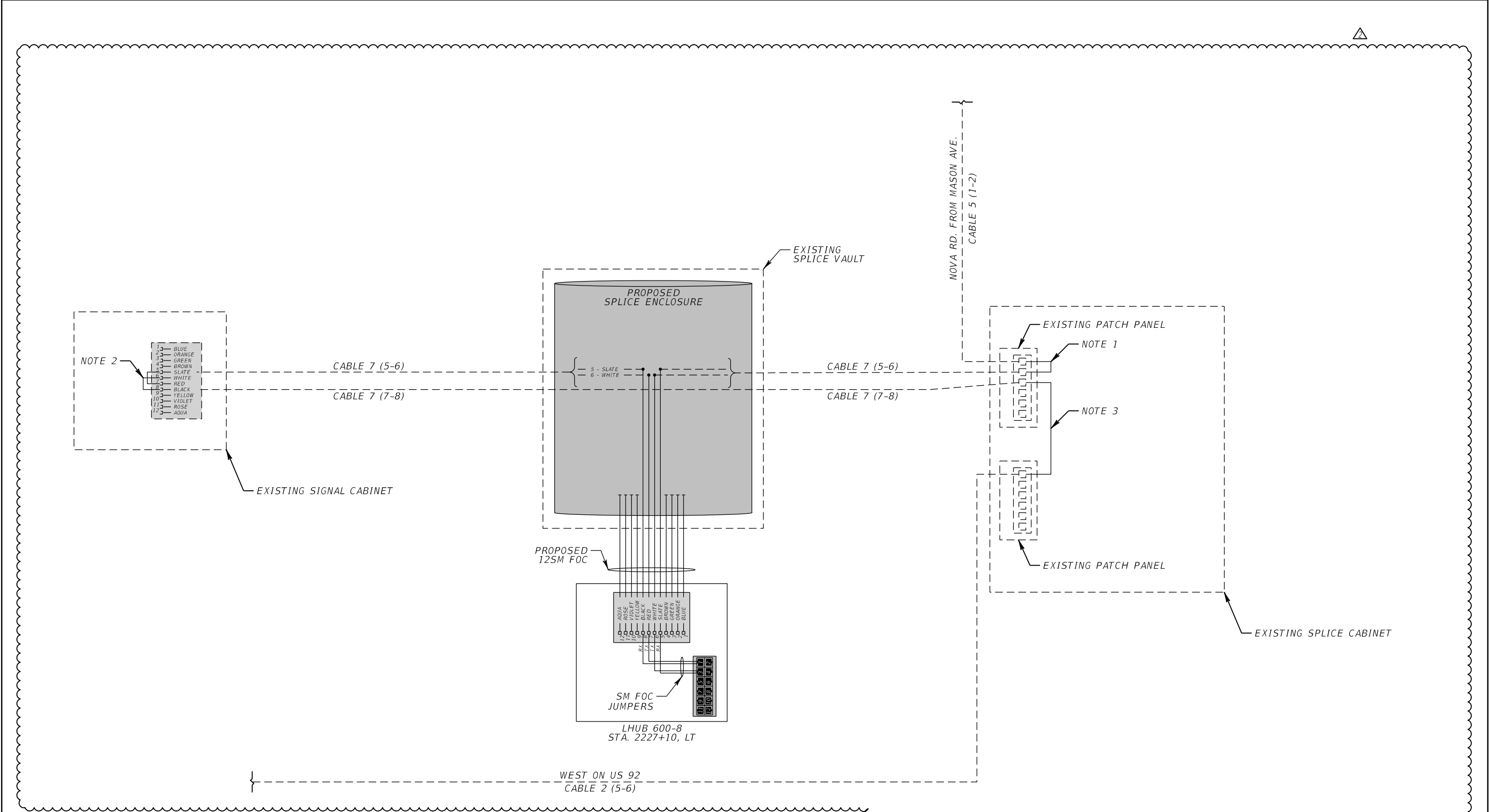
REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LOGICAL NETWORK DIAGRAM	SHEET NO. IT-84
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
06-11-18	UPDATED LOGICAL NETWORK				VARIES	VOLUSIA	436325-1-52-01		



REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPlicing DIAGRAM (SR 600)		SHEET NO. IT-89	
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
03-08-18	△ UPDATED SPlicing				VARIES	VOLUSIA	4363251-52-01				
06-11-18	△ UPDATED SPlicing										

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LEGEND

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PROPOSED FUSION SPLICE

PROPOSED FUSION BUTT SPLICE (COLOR TO COLOR)

EXISTING FUSION SPLICE

EXISTING FUSION BUTT SPLICE (COLOR TO COLOR)

BREAK EXISTING FUSION SPLICE

CONNECTORIZED (EXISTING)

CONNECTORIZED (PROPOSED)

UNTERMINATED FIBER

1

2

3

4

5

6

7

8

9

10

11

12

AQUA

ROSE

YELLOW

BLACK

RED

SLATE

BROWN

ORANGE

BLUE

FIELD ETHERNET SWITCH

1

2

3

4

5

6

7

8

9

10

11

12

BLUE

GREEN

BROWN

SLATE

RED

BLACK

YELLOW

VIOLET

ROSE

AQUA

PRETERMINATED PATCH PANEL

1

2

3

4

5

6

7

8

9

10

11

12

BLUE

GREEN

BROWN

SLATE

RED

BLACK

YELLOW

VIOLET

ROSE

AQUA

FIELD TERMINATED PATCH PANEL

NOTES:

1. PATCH CABLE 5 (FIBERS 1-2) TO CABLE 7 (FIBERS 5-6)

2. PATCH CABLE 7 (FIBERS 5-6) TO CABLE 7 (FIBERS 7-8)

3. PATCH CABLE 7 (FIBERS 7-8) TO CABLE 2 (FIBERS 5-6)

REVISIONS				ROLANDO RAMIREZ, P.E. P.E. NO.: 60918 METRIC ENGINEERING, INC. 615 CRESCENT EXECUTIVE CT, SUITE 524 LAKE MARY, FLORIDA 32746 TEL. (407) 644-1898 FAX. (407) 644-2376 CERTIFICATE OF AUTHORIZATION: 2294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPlicing DIAGRAM (SR 600)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
03-08-18	△ UPDATED SPlicing				VARIES	VOLUSIA	436325-1-52-01	IT-91	
06-11-18	△ UPDATED SPlicing								

matt.honold

6/11/2018

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